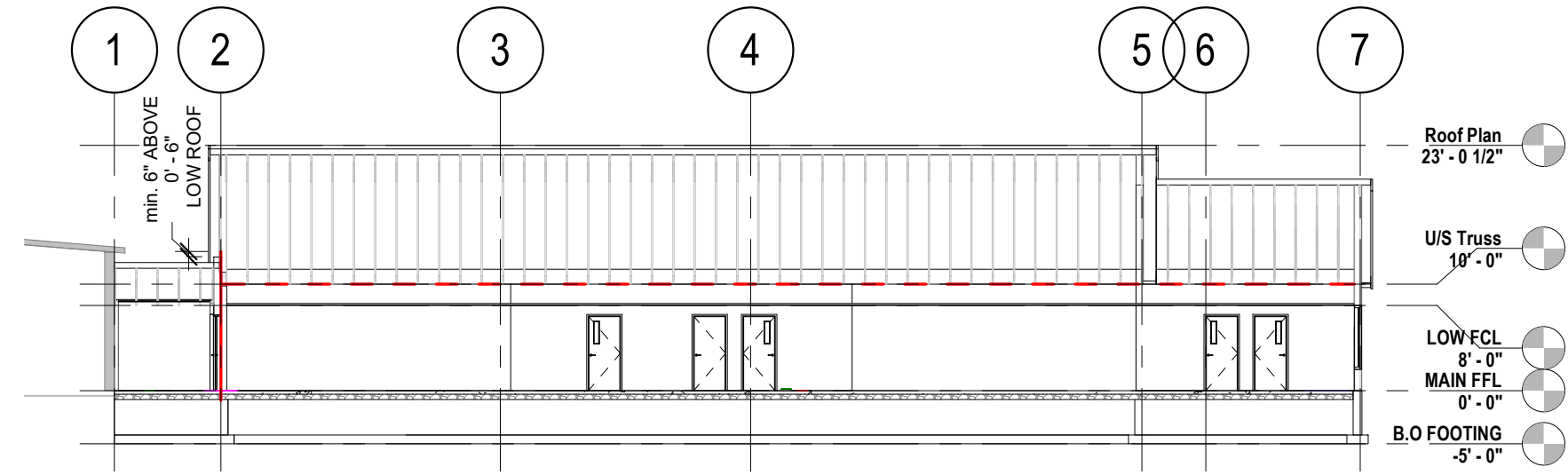


1 FLOOR PLAN - LIFE SAFETY
A040 1/16" = 1'-0"



2 BUILDING SECTION - LIFE SAFETY
A040 1/16" = 1'-0"

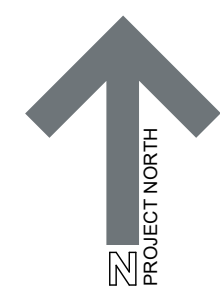
BUILDING CODE REVIEW

1. Building Definition
 - a. Governing Code: National Building Code 2015 (NBC 2015)
 - b. Building Height: 1 storey
 - c. Building Area:
 - i. Addition: 449 m² / 4832 sqft
 - d. Streets: 3.2.2.10. The building faces one street. (Street must be 9m wide or more in width or be an access route)
 - i. A building faces one street when not less than 25% of its perimeter is within 15m of the street or access route.
 - ii. A building faces two streets when not less than 50% of its perimeter is within 15m of the street or access route.
 - iii. A building faces three streets when not less than 75% of its perimeter is within 15m of the street or access route.
 - e. Major Occupancies: Group A, Division 2.
 - f. Subsidiary Occupancies: n/a
 - g. Article of Construction: 3.2.2.25. Group A, Division 2, up to 2 storeys.
 - i. Max. Building area: 1600 m² if facing one street and one storey.
 - ii. Construction Type:
 1. Code: Shall be of combustible or Non-combustible construction
 2. Provided: Combustible construction
 - iii. Floor Assemblies:
 1. Code: Shall be fire separations with a fire resistance rating (FRR) not less than 45 min.
 2. Fire Blocks in horizontal Concealed spaces 3.1.11.5. The roof assembly shall be separated into compartments not more than 300m² in area with no dimension more than 20m/65 ft. The fire blocks need to be constructed conforming to 3.1.11.7. Provide 5/8" type X GWB on one side of the truss with all edges continuously supported by 1.5" wood framing. Mud tape all joints and edges.
 - h. Sprinklers: Not applicable
 - i. Fire Walls: 2 hours fire wall between existing and addition
 - j. Interconnected floor space: Not applicable
2. Exits
 - a. Criteria for one exit: 3.4.2.1.A.
 - i. Code: If a floor area that is not sprinklered throughout, and the floor area is not more than 150m², one exit can be provided. Max travel distance per below.
 - ii. Provided: More than one exit is required.
 - b. Travel Distance: 3.4.2.5
 - i. Code: The travel distance to at least one exit shall be not more than:
 1. 30m
 - ii. Code: Required if a building is over 2 stories in building height and having an occupant load of more than 150.
 - iii. Provided: Exit signs throughout.
3. Building Life Safety Systems
 - a. Standpipe: 3.2.5.8
 - i. Code: Not required.
4. Access Routes
 - a. 3.2.5.4. A building which is more than 3 storeys in building height or more than 600m² in building area shall be provide with access routes for fire department vehicles.
 - b. 3.2.5.5. Access routes shall be located not less than 3m and not more than 15m from the closest portion of the access route.
5. Fire Separations

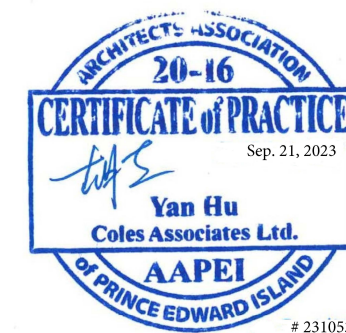
a. Fire walls	3.1.10.	2 hours
b. Separation of Suites	3.3.1.1.	n/a
c. Public Corridors	3.3.1.4.	n/a
d. Janitor rooms	3.3.1.21.	n/a
e. Contained use area	3.3.3.7.	n/a
f. Storage rooms	3.3.4.3(3)	n/a
g. Repair Garage	3.3.5.5.	n/a
h. Storage Garage	3.3.5.6.	n/a
i. Exits	3.4.4.1.	n/a
j. Elevator shaft and machine room	3.5.3.	n/a
k. Service rooms	3.6.2.1.	1 hour
l. Laundry rooms	3.3.1.22.	1 hour

LIFE SAFETY LEGEND

- 2 HR FIRE RATED ASSEMBLY
- 1 HR FIRE RATED ASSEMBLY
- 45 MIN. FIRE RATED ASSEMBLY
- TRAVEL DISTANCE PATH



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

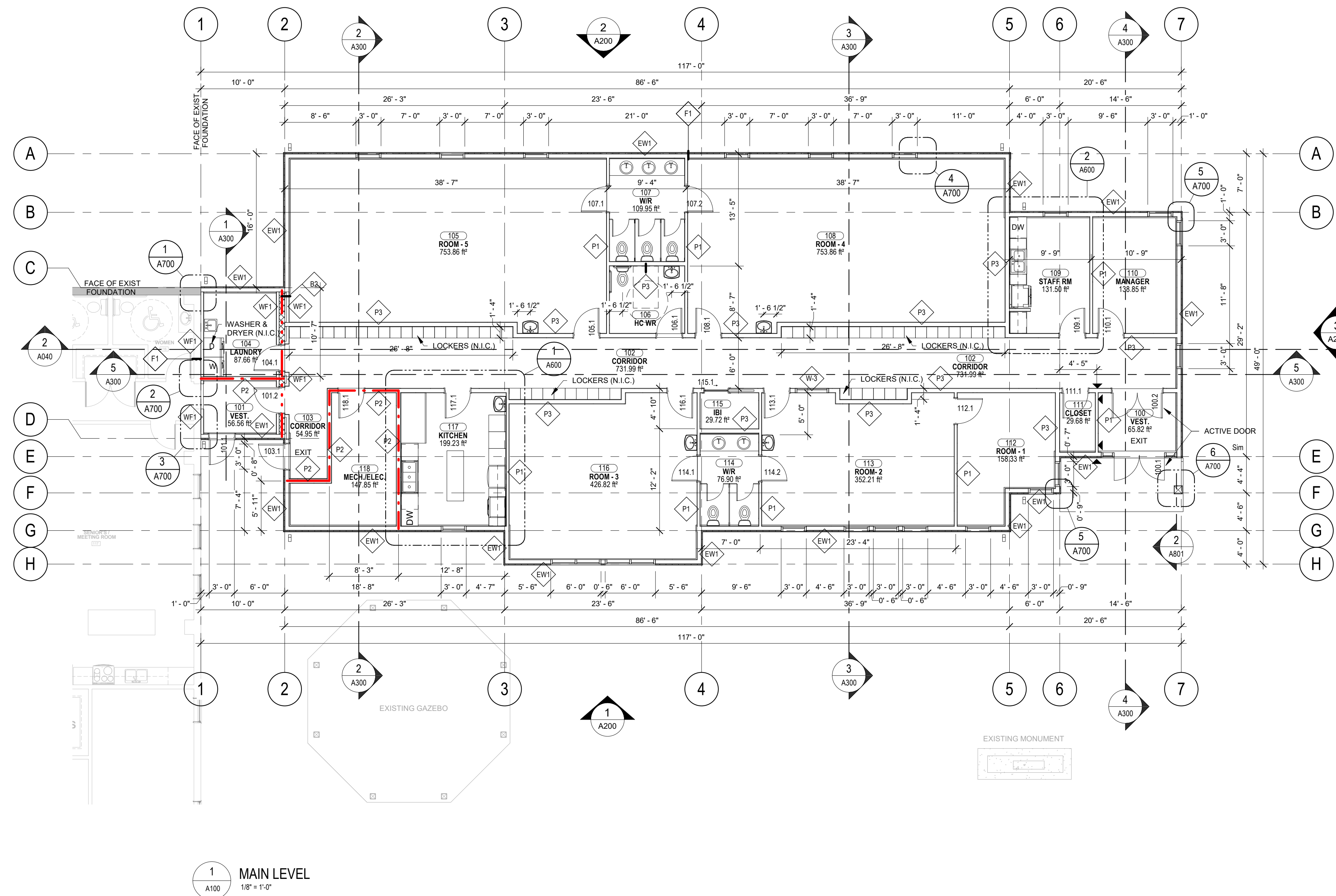


Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

Sheet Title
Building Code and Life Safety Notes

No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Dm By: SH	0
			Chk By: SDM	
			Project Number: 231053	
			Drawing Number: A040	



1 MAIN LEVEL
1/8" = 1'-0"

EXTERIOR WALL TYPES		
TYPE	DESCRIPTION	REMARKS
EW1	- VINYL SIDING - 1" RIGID INSULATION (R5) - CONTINUOUS AIR BARRIER - 1/2" EXTERIOR OSB SHEATHING - 2"x6" WOOD STUD FRAMING @ 16" O.C. CW BATT INSULATION (R24) - 6mil POLY VAPOUR BARRIER - 1 LAYER, 1/2" GYPSUM WALL BOARD	

INTERIOR WALL TYPES				
TYPE	DESCRIPTION	REMARKS	NBCC	STC
B2	- 7.5' / 150MM CONCRETE BLOCK		2 HR.	NBC 2015, B2g 48
P1	- 1/2" GYPSUM WALL BOARD - 1-1/2" x 3-1/2" / 38MM x 89MM WOOD STUD FRAMING @ 16" / 400MM O.C. - CW FIBERGLASS ACOUSTIC BATT INSULATION (FILL CAVITY) - 1/2" GYPSUM WALL BOARD		N/A	NBC 2015, W1c 32
P2	- 5/8" / 16MM GYPSUM WALL BOARD TYPE X - 1-1/2" x 5-1/2" / 38MM x 140MM WOOD STUD FRAMING @ 16" / 400MM O.C. - CW MINERAL WOOL INSULATION (FILL CAVITY) - 5/8" / 16MM GYPSUM WALL BOARD TYPE X		1 HR.	N/A
P3	- 1/2" GYPSUM WALL BOARD - 1-1/2" x 5-1/2" / 38MM x 140MM WOOD STUD FRAMING @ 16" / 400MM O.C. - CW FIBERGLASS ACOUSTIC BATT INSULATION (FILL CAVITY) - 1/2" GYPSUM WALL BOARD		N/A	N/A

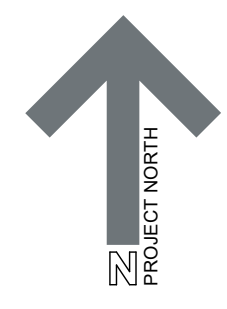
FURRING WALL TYPES				
TYPE	DESCRIPTION	REMARKS	NBCC	STC
WF1	- 1/2" GYPSUM WALL BOARD - 3 1/2" WOOD STUD FRAMING @ 16" O.C. - ADJACENT WALL		N/A	N/A

FLOOR TYPES		
TYPE	DESCRIPTION	REMARKS
F1	- FINISH FLOOR AS SCHEDULED - CONCRETE FLOOR (REFER TO STRUCTURAL FOR THICKNESS) - 10mil POLY VAPOUR BARRIER - 48" HORIZONTAL STRIP OF 2" RIGID INSULATION (R10) AROUND PERIMETER ONLY - COMPACTED MATERIAL (REFER TO STRUCTURAL AND GEOTECHNICAL)	

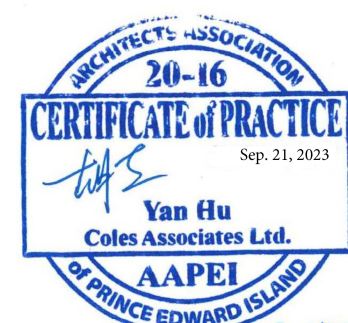
ROOF TYPES		
TYPE	DESCRIPTION	REMARKS
R1	- ASPHALT SHINGLES - ROOF MEMBRANE - 1/2" OSB SHEATHING - WOOD TRUSS @ 24" O.C. DESIGN BY A TRUSS MANUFACTURER AND SEALED BY AN ENGINEER TO PRACTICE IN PEI MEET ALL SNOW AND WIND LOADS - R60 BLOWN IN INSULATION, APPROX. 20" - 3/4" WOOD STRAPPING @ 16" O.C. - 6mil POLY VAPOUR BARRIER - 5/8" TYPE X GYPSUM BOARD - T-BAR CEILING (REFER TO RCP)	45 MIN.

GENERAL SHEET NOTES

- ALL FIRE RATED WALLS AND LOAD BEARING WALLS ARE TO EXTEND TO THE UNDERSIDE OF TRUSSES U.N.O.



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R8
Phone: (802) 368-2300
www.colesassociates.com



Client
Rural Municipality of Kinkora

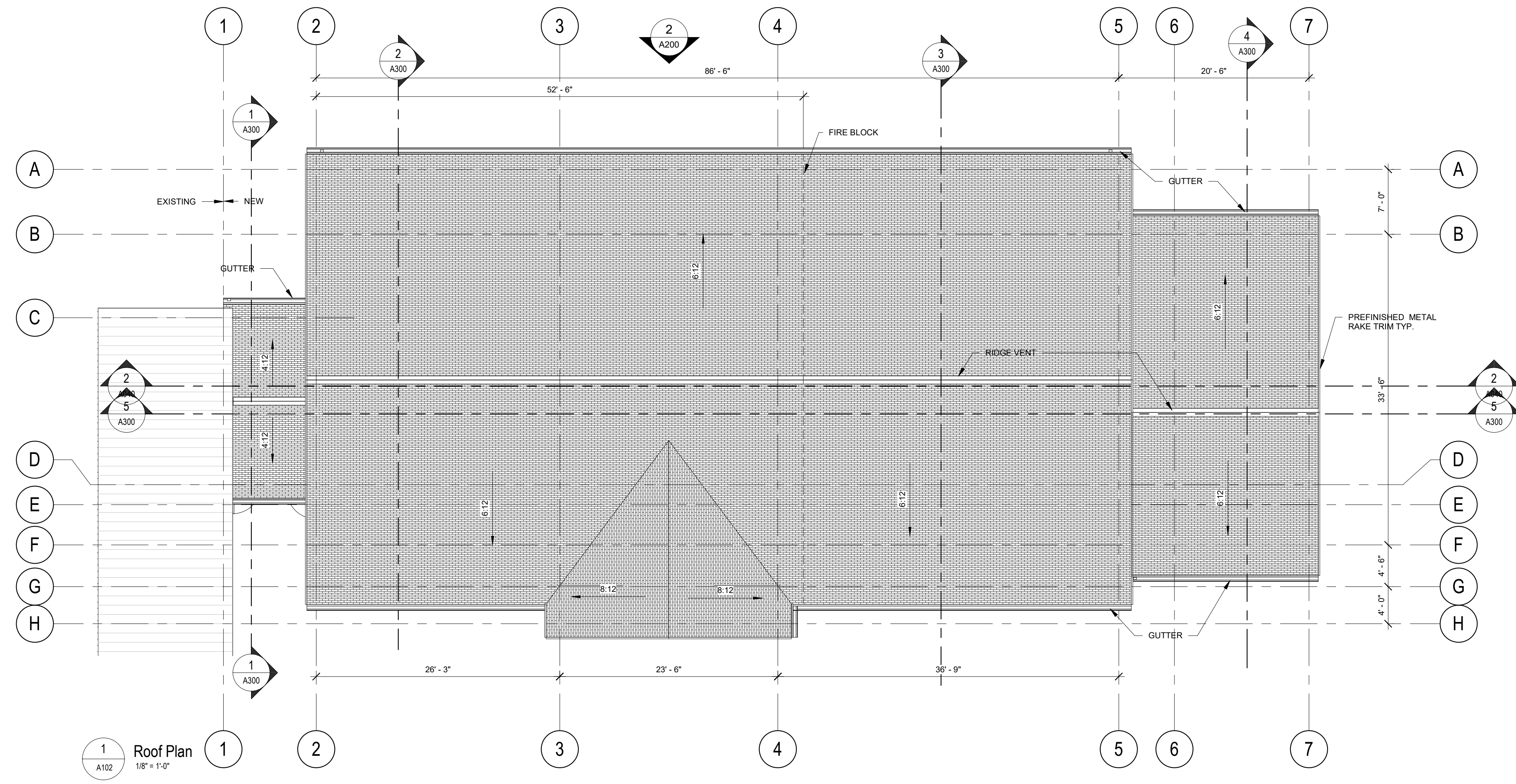
Project Title
Kinkora Community Hall Expansion

Sheet Title
Floor Plan

No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-09-21	2023-09-21	0
			Date: 2023-09-21	
			Dm By: SH/DC	
			Chk By: SDM	
			Project Number:	
			231053	
			Drawing Number:	
			A100	

GENERAL SHEET NOTES

- REFER TO EXTERIOR ELEVATIONS FOR DOWNSPOUT LOCATIONS.
- FIRE BLOCK IN HORIZONTAL CONCEALED ROOF SPACE, REFER TO CODE ANALYSIS FOR DETAIL INFORMATION.

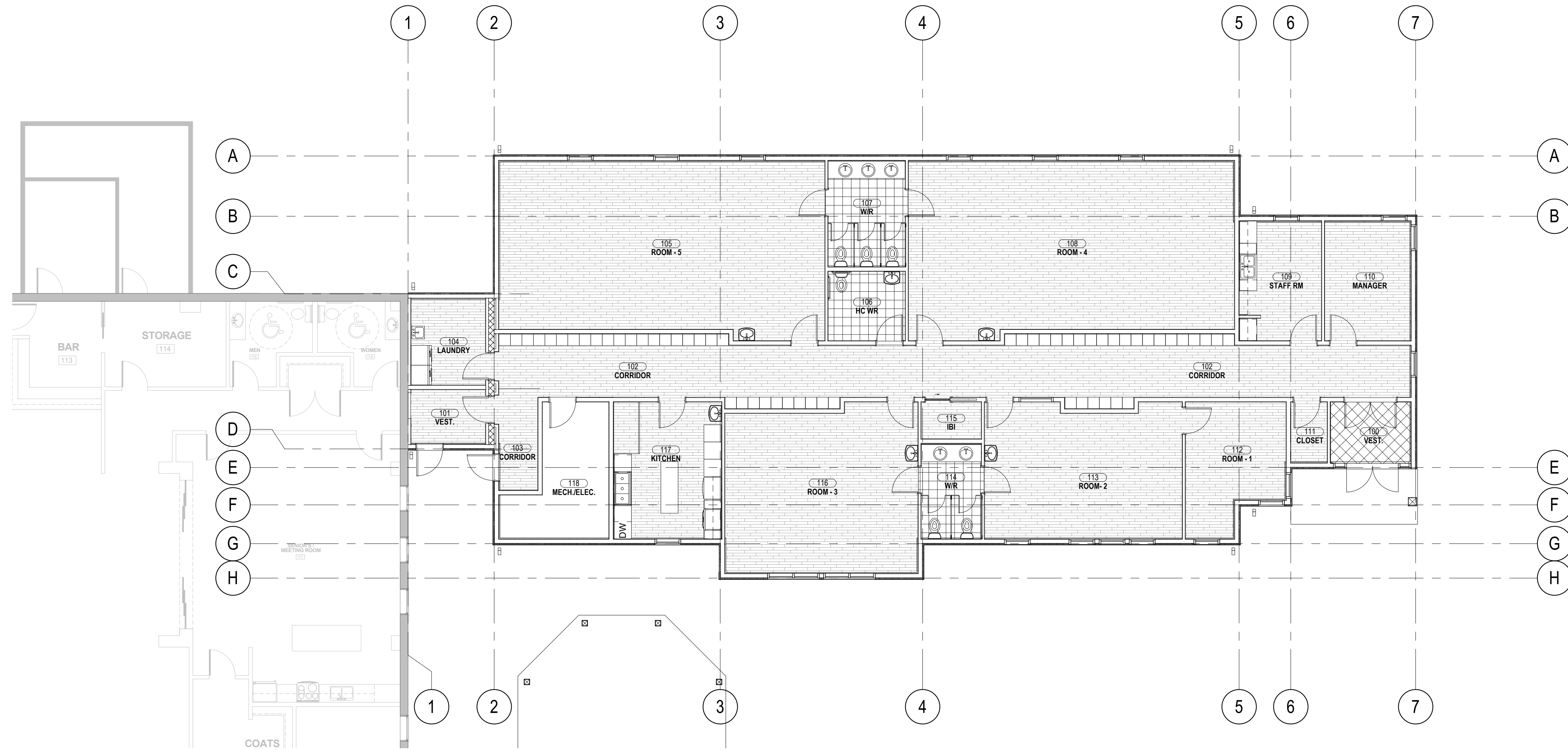


Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

Sheet Title
Roof Plan

No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Drn By: SH	0
			Chk By: SDM	
			Project Number: 231053	
			Drawing Number: A102	



1 FINISH FLOOR PLAN
A140 1/8" = 1'-0"

ROOM FINISH SCHEDULE NOTES

1. REFER TO MATERIAL/FINISH SCHEDULE FOR INFORMATION ON ALL MATERIAL TAGS.
2. REFER TO FLOOR FINISH PLANS FOR FLOOR TYPES.
3. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES.

ROOM FINISH SCHEDULE

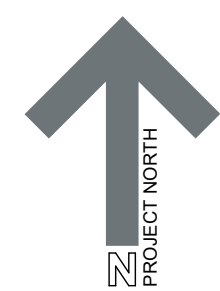
ROOM NO.	ROOM NAME	FLOOR BASE	WALLS			
			NORTH FIN.	EAST FIN.	SOUTH FIN.	WEST FIN.
100	VEST.	T-1	P-2	P-2	P-2	P-2
101	VEST.	RB-1	P-2	P-2	P-2	P-2
102	CORRIDOR	RB-1	P-2	P-2	P-2	P-2
103	CORRIDOR	RB-1	P-2	P-2	P-2	P-2
104	LAUNDRY	RB-1	P-2	P-2	P-2	P-2
105	ROOM - 5	RB-1	P-2	P-2	P-2	P-2
106	HC WR	RB-1	P-2	P-2	P-2	P-2
107	WR	RB-1	P-2	P-2	P-2	P-2
108	ROOM - 4	RB-1	P-2	P-2	P-2	P-2
109	STAFF RM	RB-1	P-2	P-2	P-2	P-2
110	MANAGER	RB-1	P-2	P-2	P-2	P-2
111	CLOSET	RB-1	P-2	P-2	P-2	P-2
112	ROOM - 1	RB-1	P-2	P-2	P-2	P-2
113	ROOM - 2	RB-1	P-2	P-2	P-2	P-2
114	WR	RB-1	P-2	P-2	P-2	P-2
115	IBI	RB-1	P-2	P-2	P-2	P-2
116	ROOM - 3	RB-1	P-2	P-2	P-2	P-2
117	KITCHEN	RB-1	P-2	P-2	P-2	P-2
118	MECH./ELEC.	WC-1	WC-1	WC-1	WC-1	WC-1

GENERAL SHEET NOTES

- ENTRANCE MAT BY OWNER, NI.C. PROVIDE FLOORING AS SCHEDULED
- REFER TO MATERIAL/FINISH SCHEDULE FOR INFORMATION ON ALL MATERIAL TAGS
- REFER TO ROOM FINISH SCHEDULE FOR INFORMATION ON ALL FINISHES AND WALL BASE

FLOOR FINISHES LEGEND

	VINYL COMPOSITE TILE, RF-2
	FLOOR TILE, T-1
	RESILIENT FLOORING, RF-1
	EXPOSED CONCRETE, CO-1
	TILE TRIM, TT-1
	RESILIENT TRANSITION STRIP, TS-1



COLES
Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R8
Phone: (902) 368-2300
www.colesassociates.com

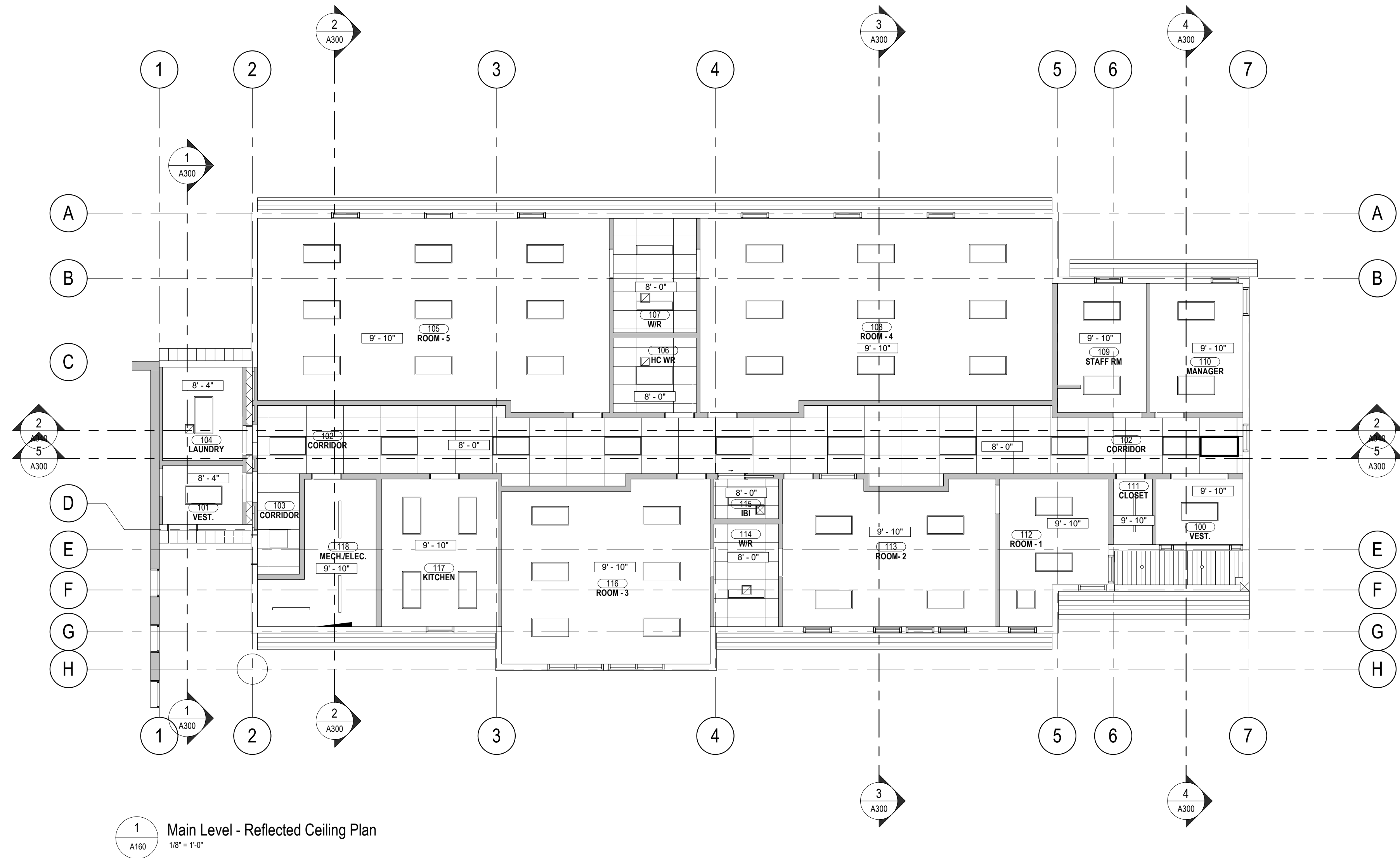


Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

Sheet Title
Floor Finish Plan

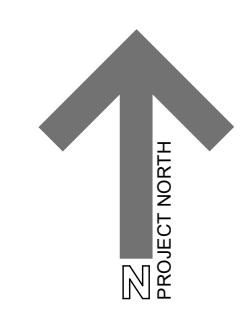
No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Dm By: SH	0
			Chk By: SDM	
			Project Number:	
				231053
			Drawing Number:	
				A140



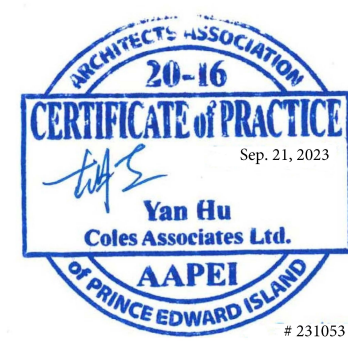
REFLECTED CEILING PLAN LEGEND	
	CEILING HEIGHT TAG
	GWB: 16mm TYPE X GWB
	ACT-1: ACOUSTIC CEILING TILE, 600x1200
MECHANICAL ITEMS (REFER TO MECHANICAL DRAWINGS)	
	SQUARE AIR DIFFUSER
ELECTRICAL ITEMS (REFER TO ELECTRICAL DRAWINGS)	
	LUMINAIRE, CEILING MOUNTED
	LUMINAIRE, WALL MOUNTED
	LUMINAIRE, DOWNLIGHT
	LUMINAIRE, SURFACE MOUNTED STRIP
	EXTERIOR LUMINAIRE, WALL MOUNTED
	EXIT LUMINAIRE, WALL / CEILING MOUNTED
	EMERGENCY LUMINAIRE, WALL MOUNTED
	EMERGENCY LUMINAIRE, WALL MOUNTED
	FIRE ALARM DEVICE, CEILING MOUNTED
	FIRE ALARM DEVICE, WALL MOUNTED
	FIRE ALARM DEVICE, CEILING MOUNTED
	FIRE ALARM PULL STATION

GENERAL SHEET NOTES

- ALL T-BAR CEILINGS ARE ACT-1 UNLESS NOTED OTHERWISE
- ALL GYPSUM BOARD CEILINGS ARE TO BE PAINTED FLAT WHITE
- REFER TO ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT
- REFER TO MECHANICAL DRAWINGS FOR DIFFUSER LAYOUT



Suite 201, 85 Fitzroy Street
 Charlottetown, P.E.I., Canada, C1A 1R6
 Phone: (902) 368-2300
 www.colesassociates.com

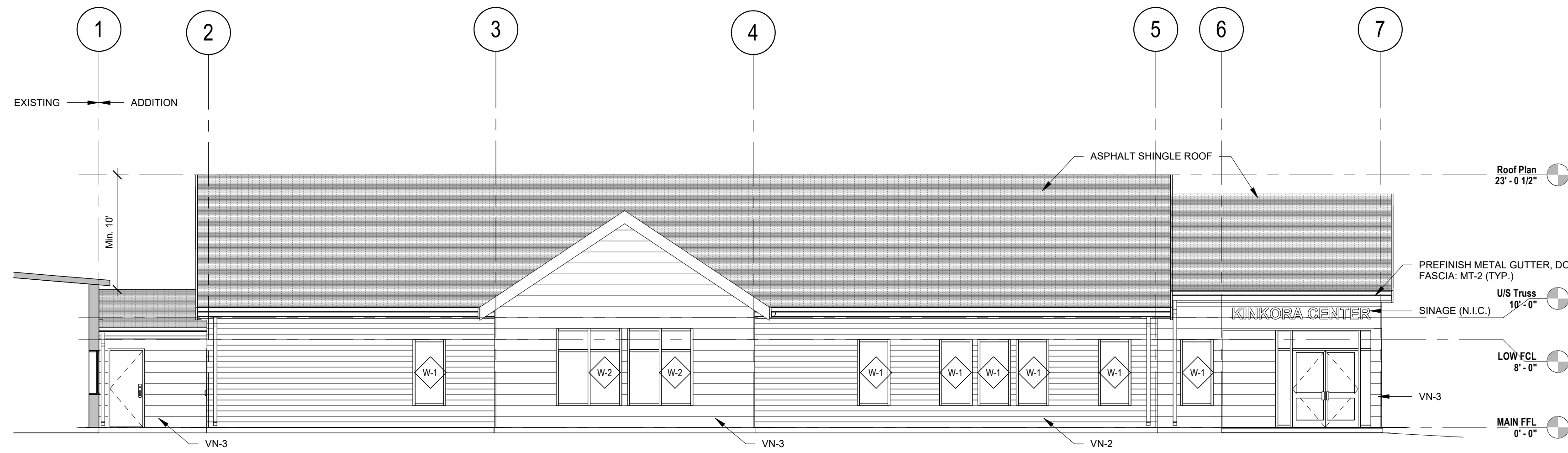


Client
 Rural Municipality of Kinkora

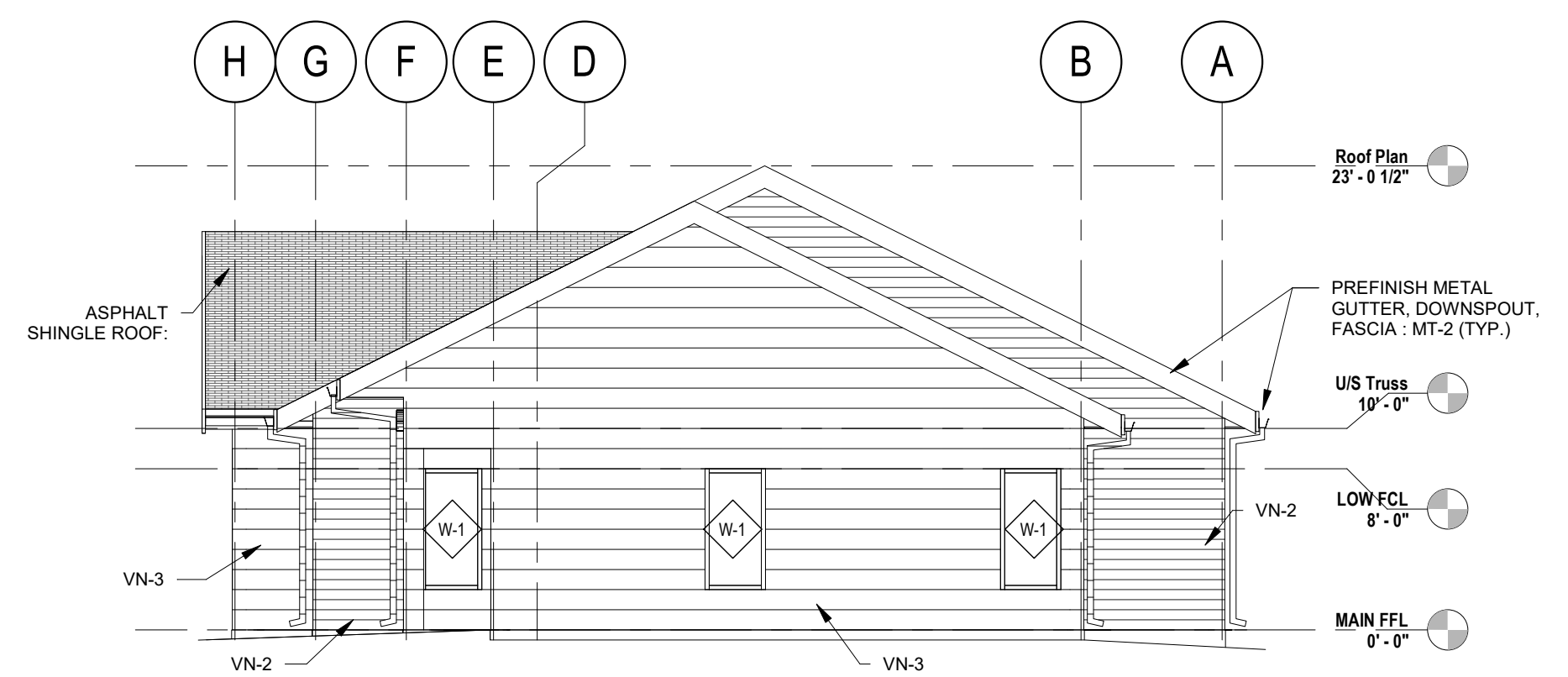
Project Title
 Kinkora Community Hall Expansion

Sheet Title
 Reflected Ceiling Plan

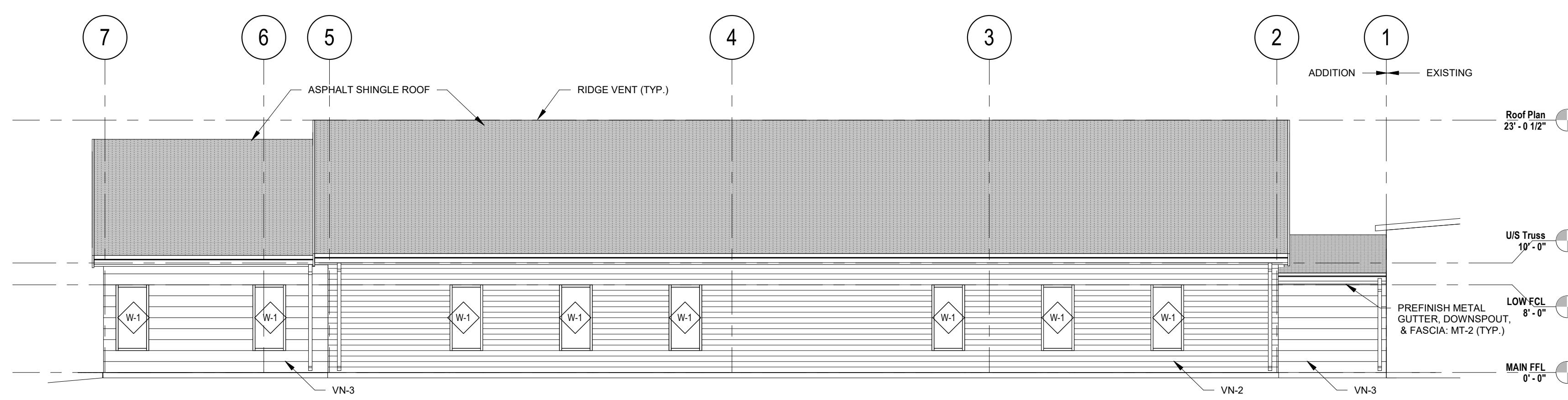
No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Drn By: SH	0
			Chk By: Checker	
			Project Number: 231053	
			Drawing Number: A160	



1 SOUTH ELEVATION
A200 1/8" = 1'-0"



3 EAST ELEVATION
A200 1/8" = 1'-0"

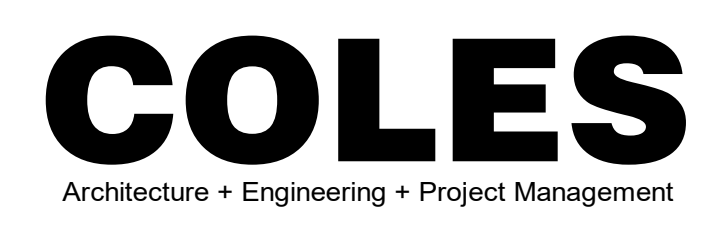
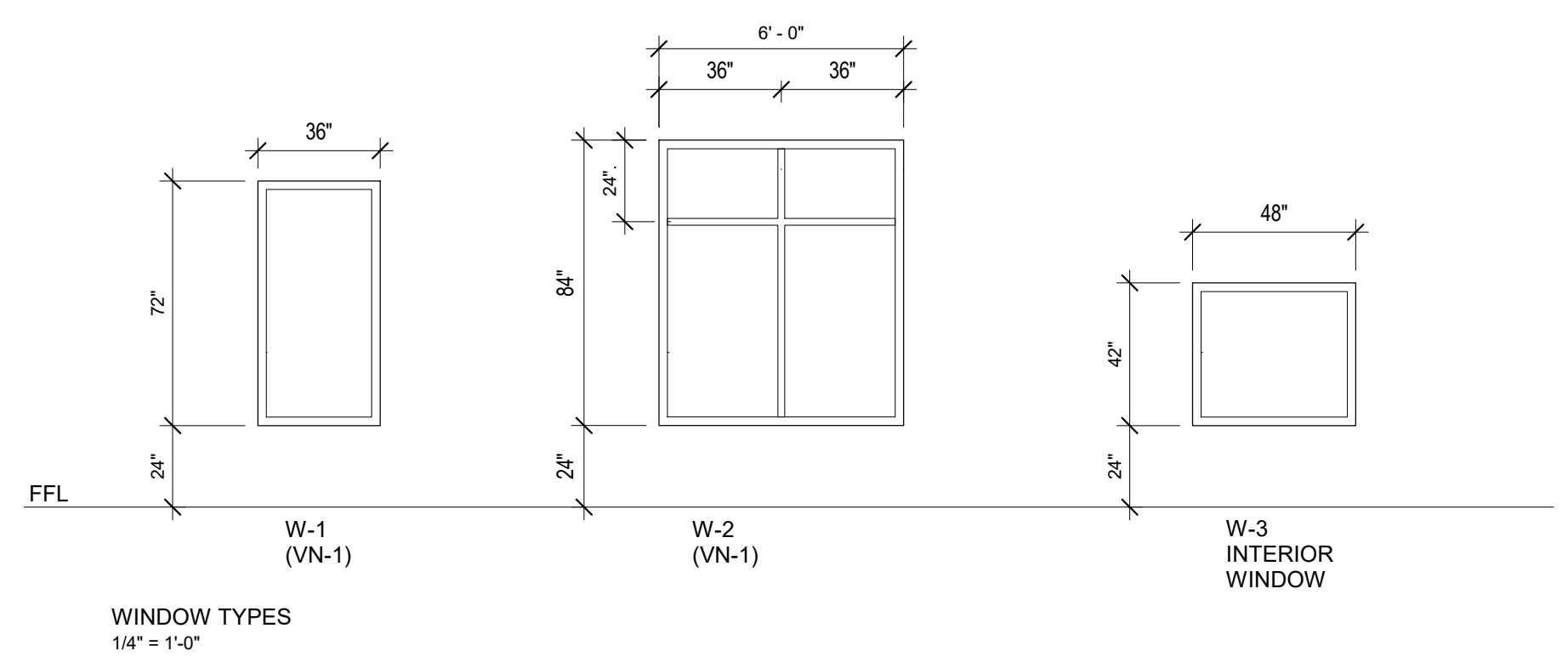


2 NORTH ELEVATION
A200 1/8" = 1'-0"

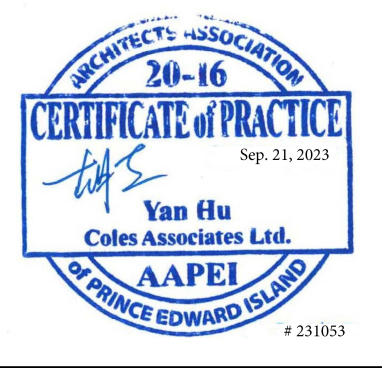
GENERAL SHEET NOTES
REFER TO MATERIAL/FINISH SCHEDULE FOR INFORMATION ON ALL MATERIAL TAGS

ELEVATION MATERIAL LEGEND

	VINYL SIDING, HORIZONTAL, VN-2
	VINYL SIDING, HORIZONTAL, VN-3



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

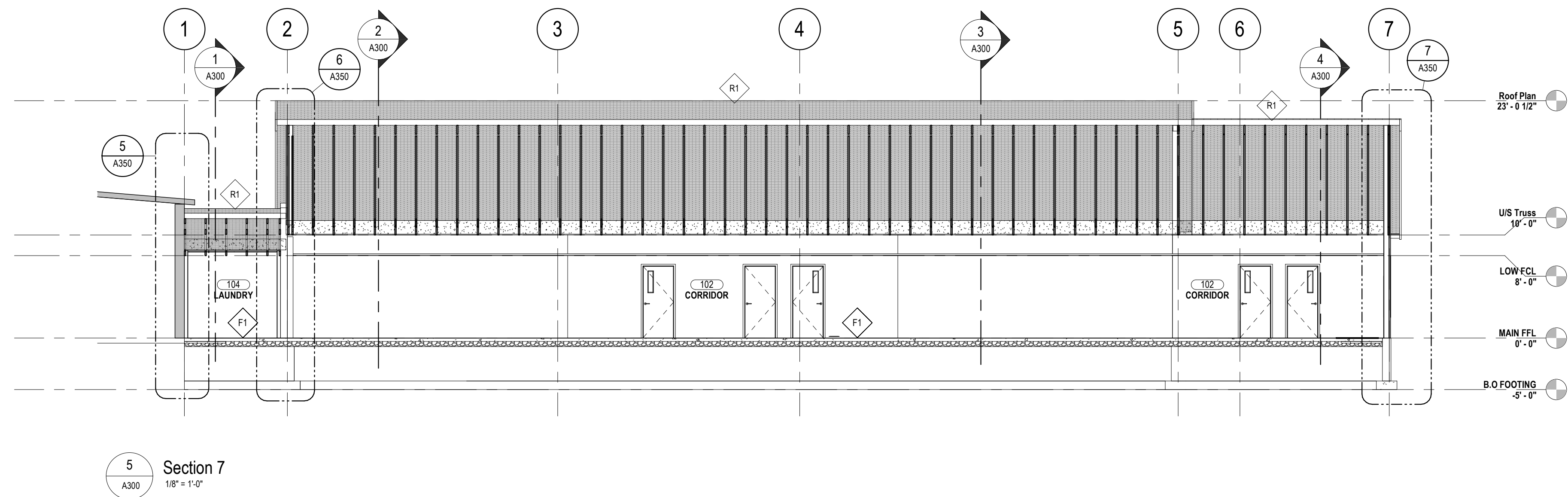
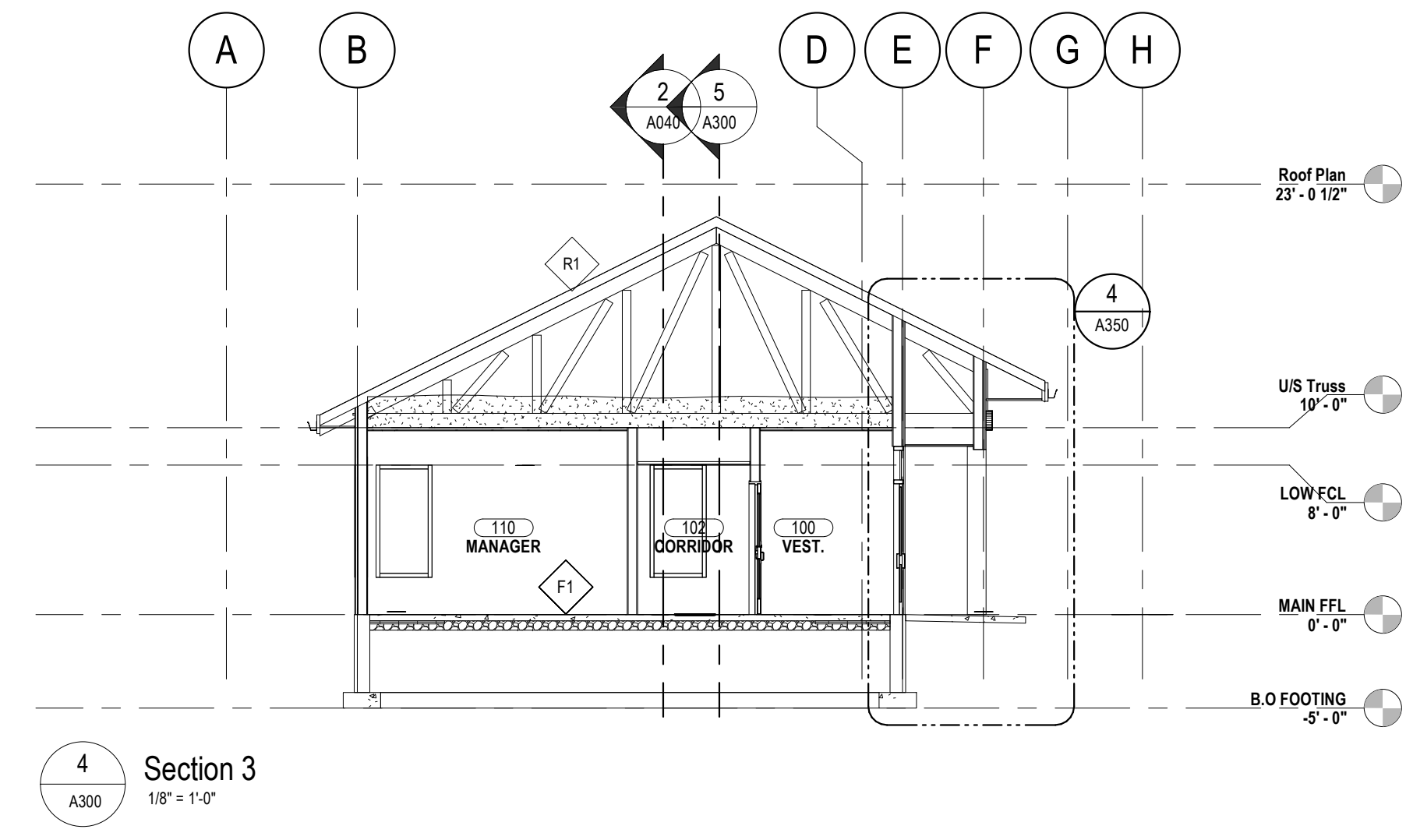
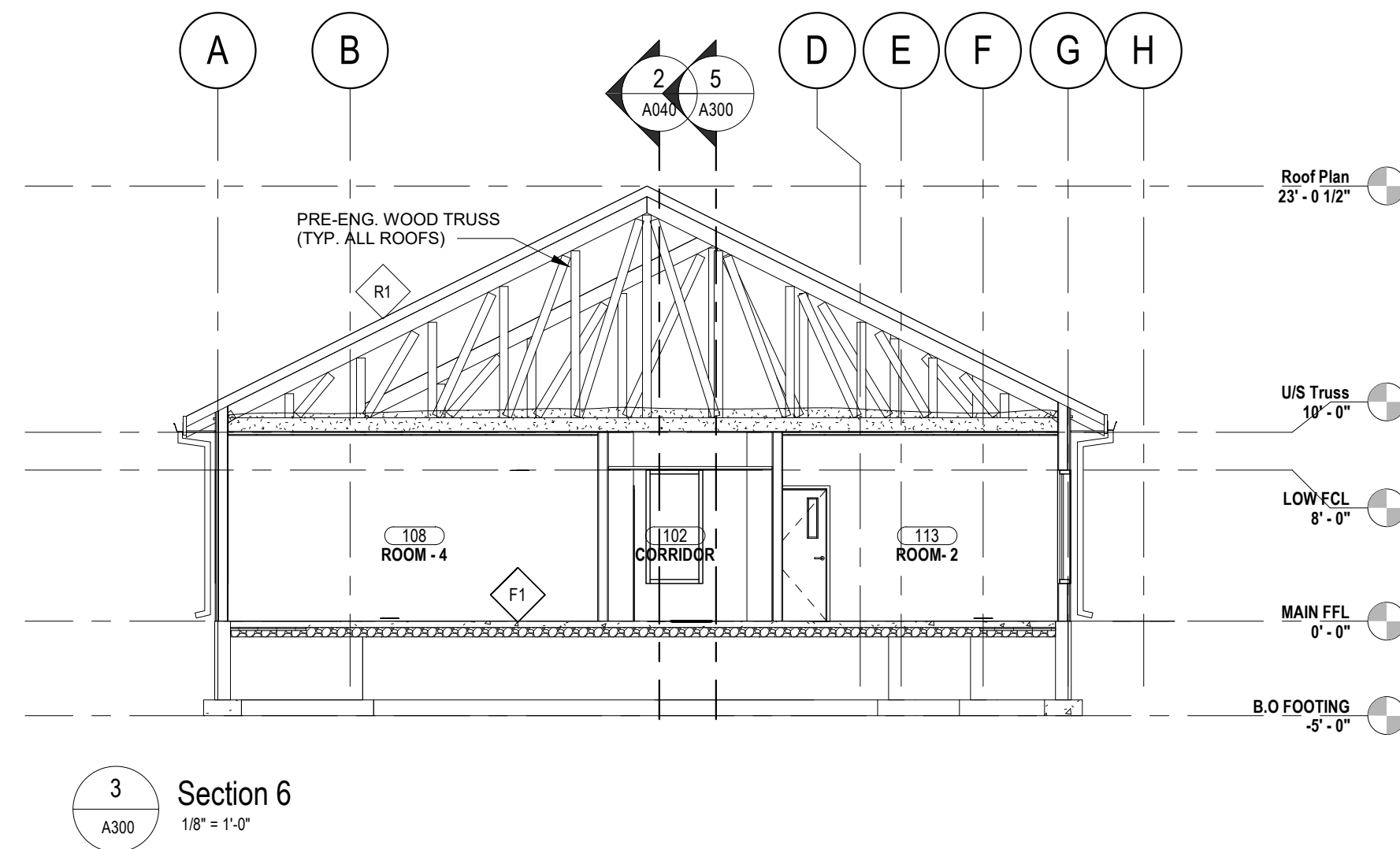
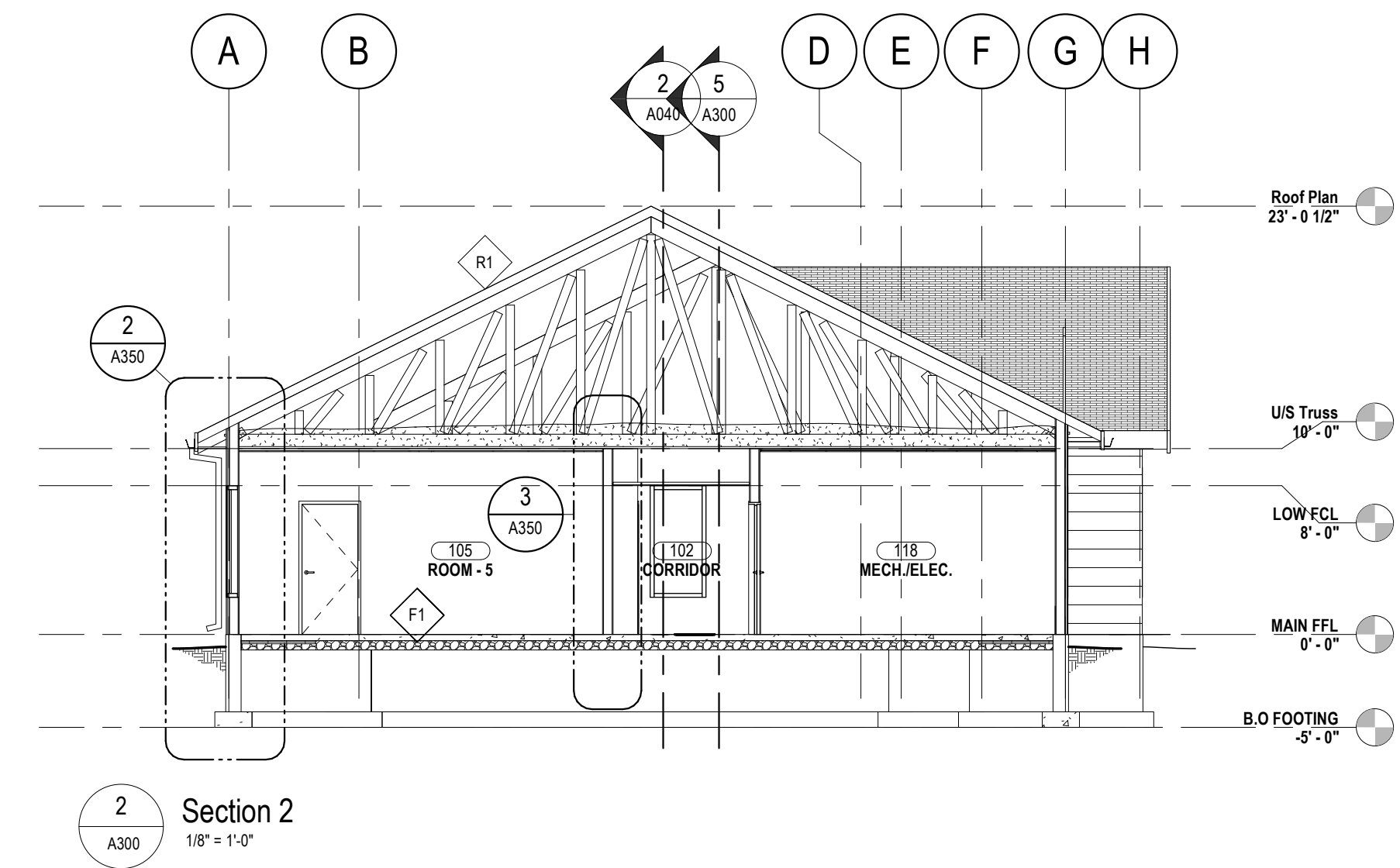
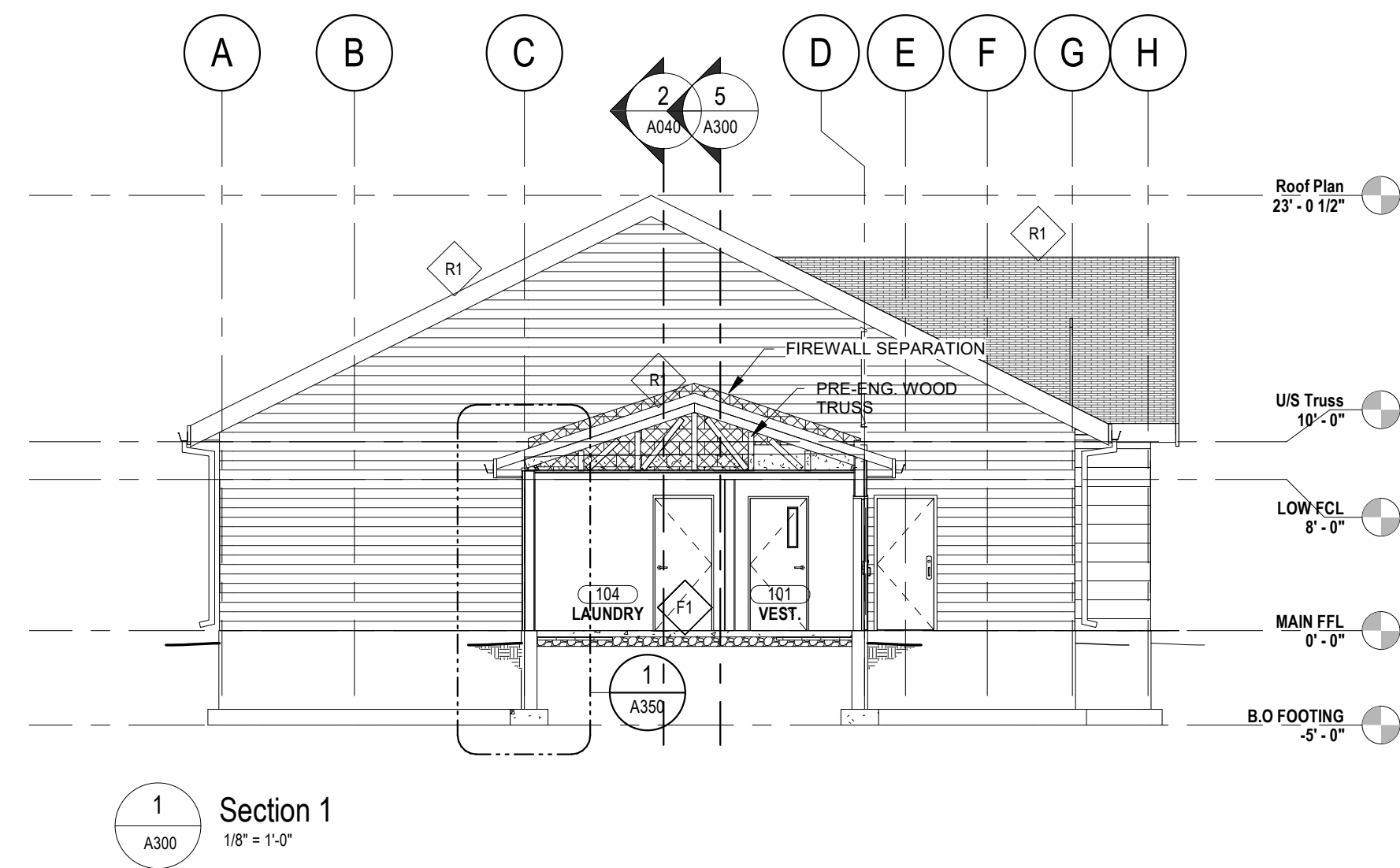


Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

Sheet Title
Exterior Elevations

No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Dim By: SH / DC	0
Project Number:			231053	
Drawing Number:			A200	



COLES
Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

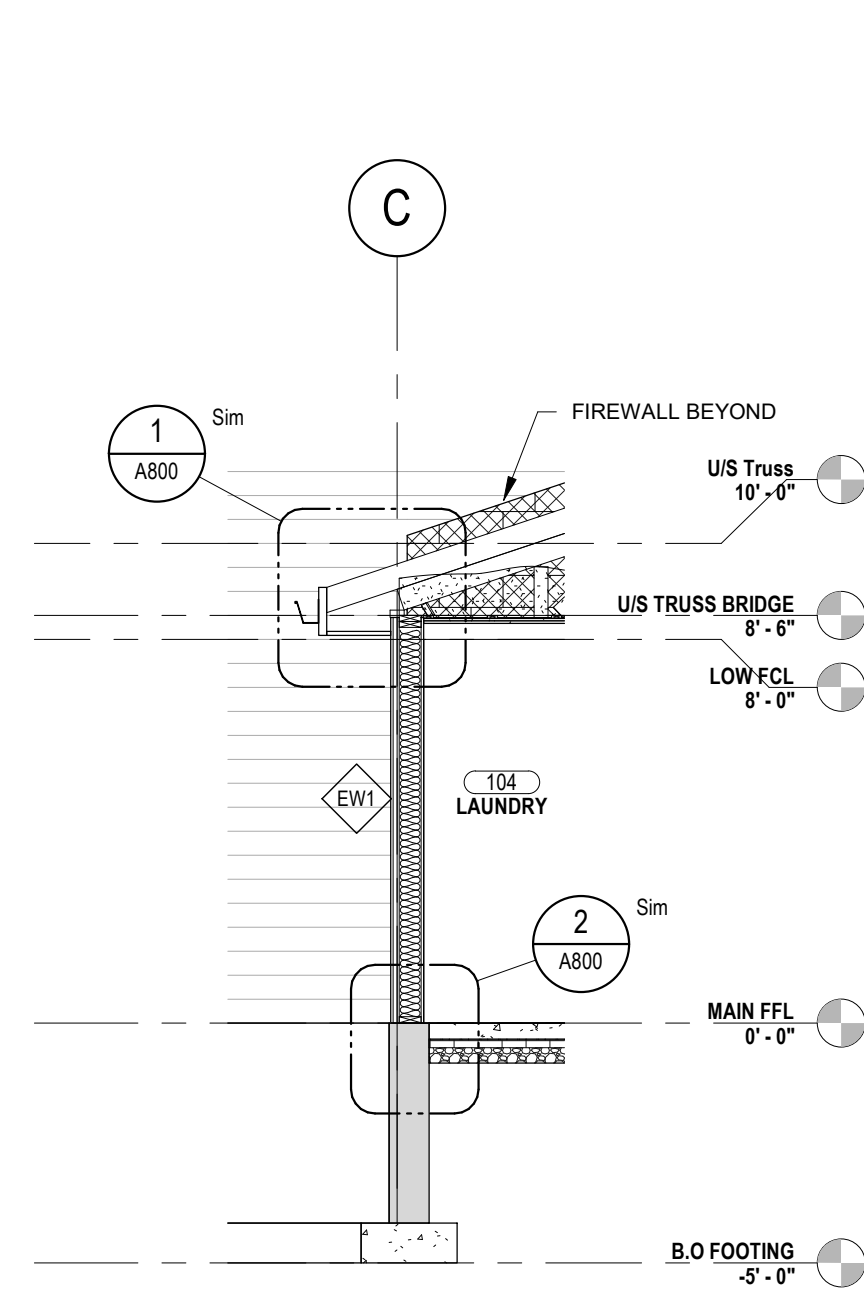


Client
Rural Municipality of Kinkora

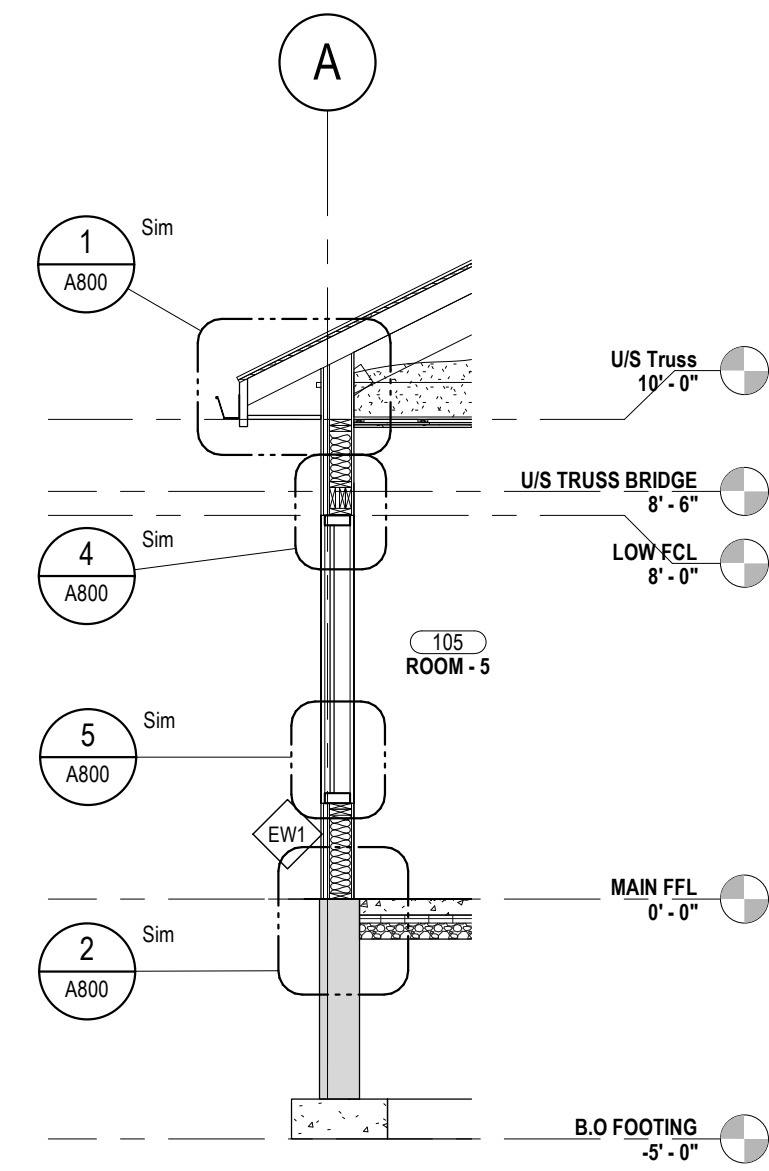
Project Title
Kinkora Community Hall Expansion

Sheet Title
Building Sections

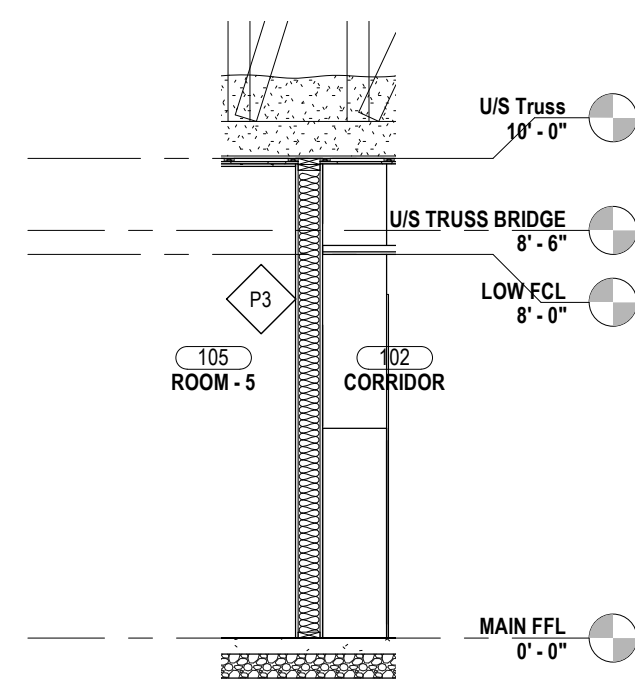
No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-09-21	2023-09-21	0
			Dim By: DC	
			Chk By: SDM	
			Project Number:	
			231053	
			Drawing Number:	
			A300	



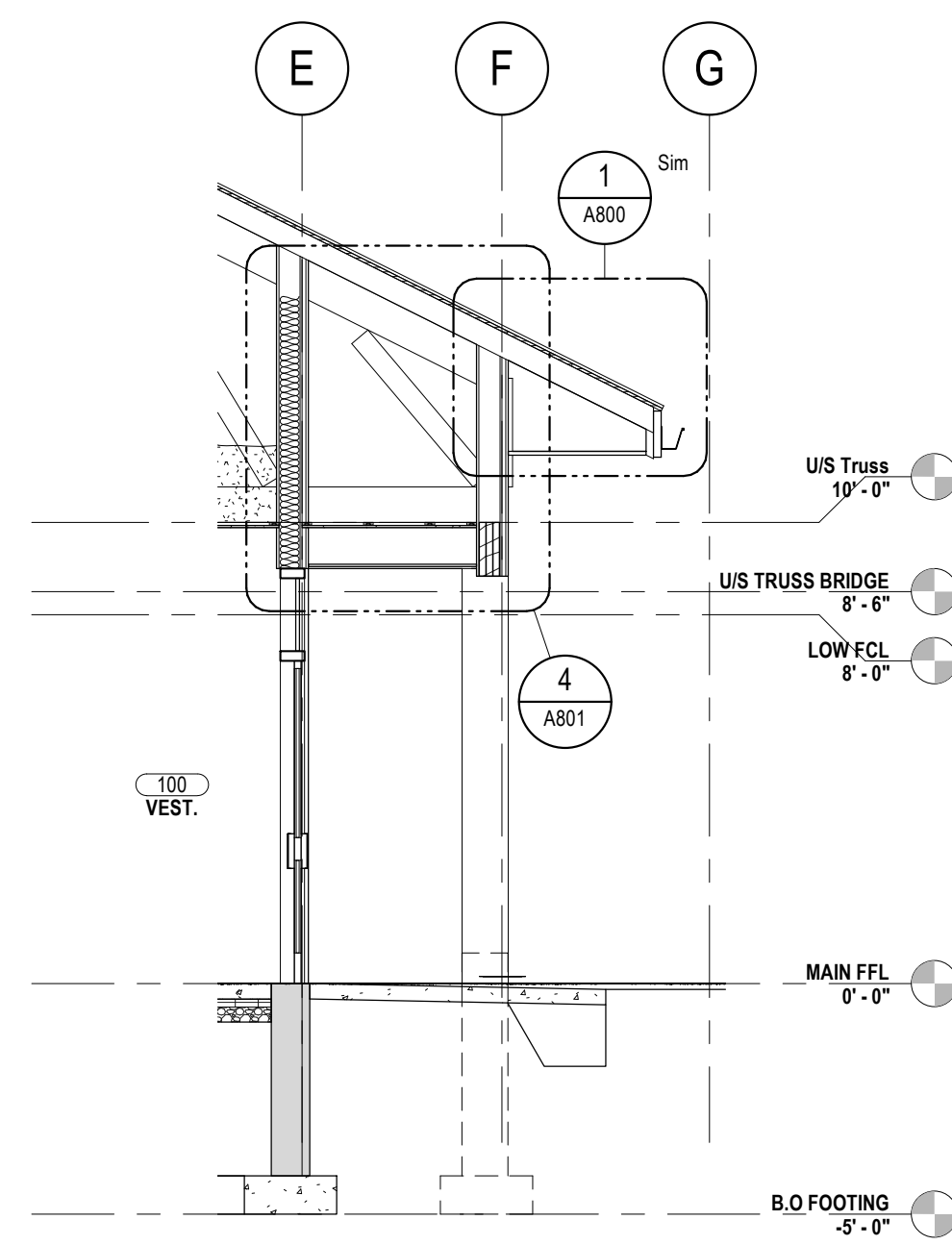
1 Section 1 - Callout 1
A350 1/4" = 1'-0"



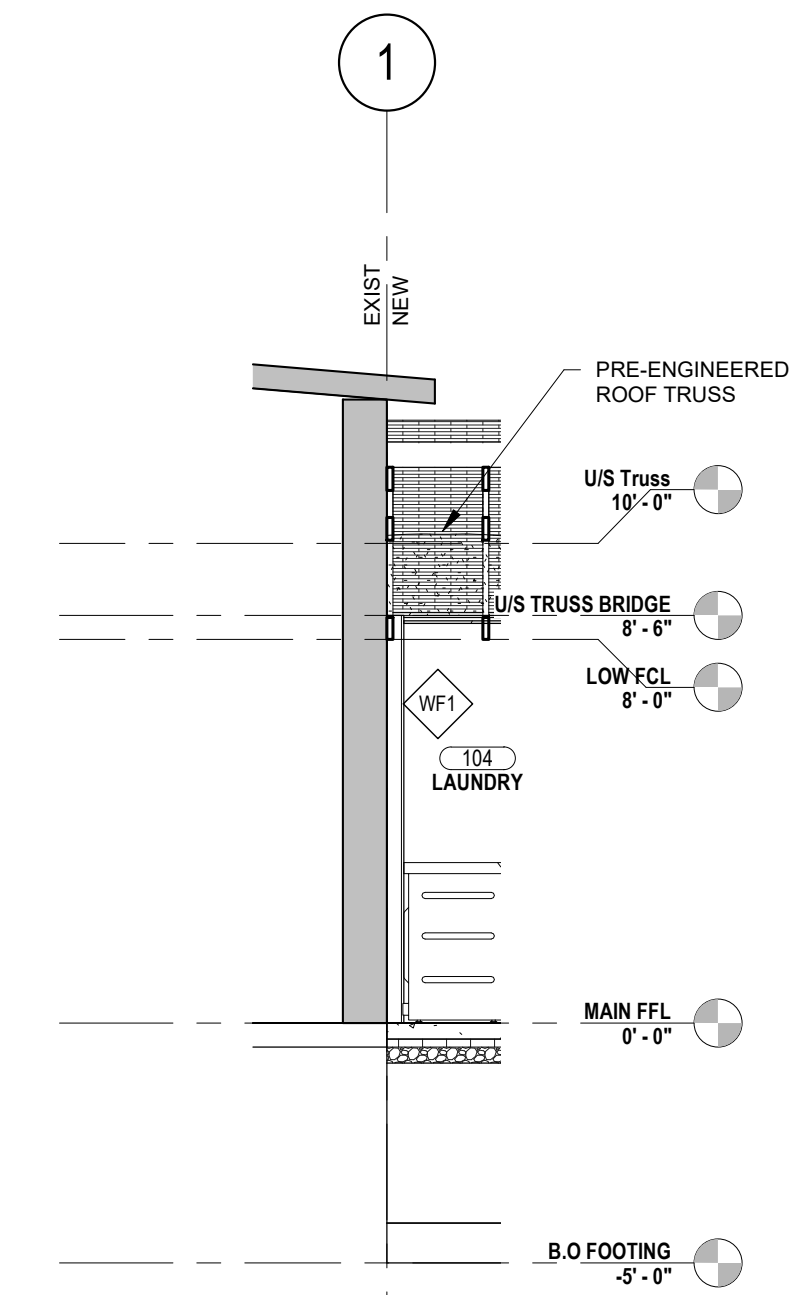
2 Section 2 - Callout 2
A350 1/4" = 1'-0"



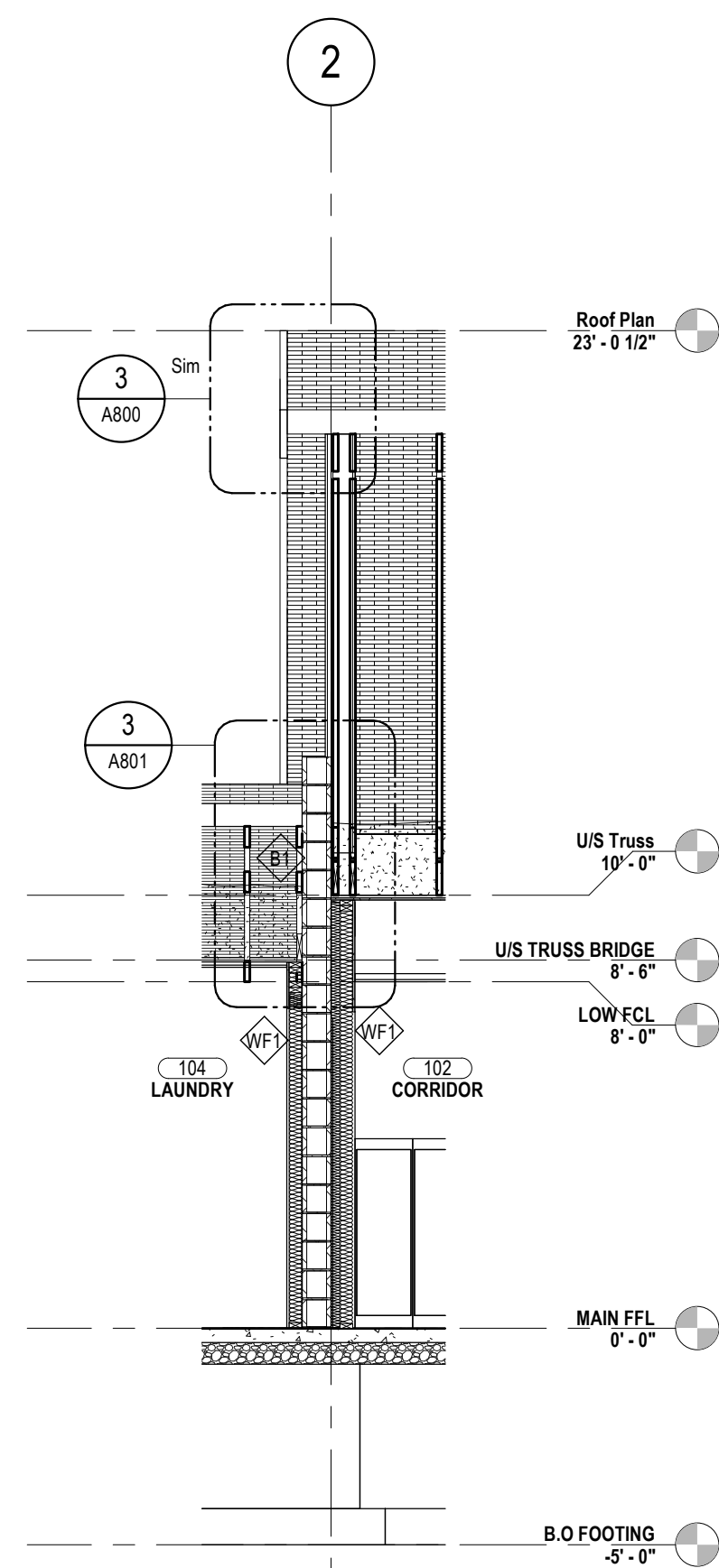
3 Section 2 - Callout 2
A350 1/4" = 1'-0"



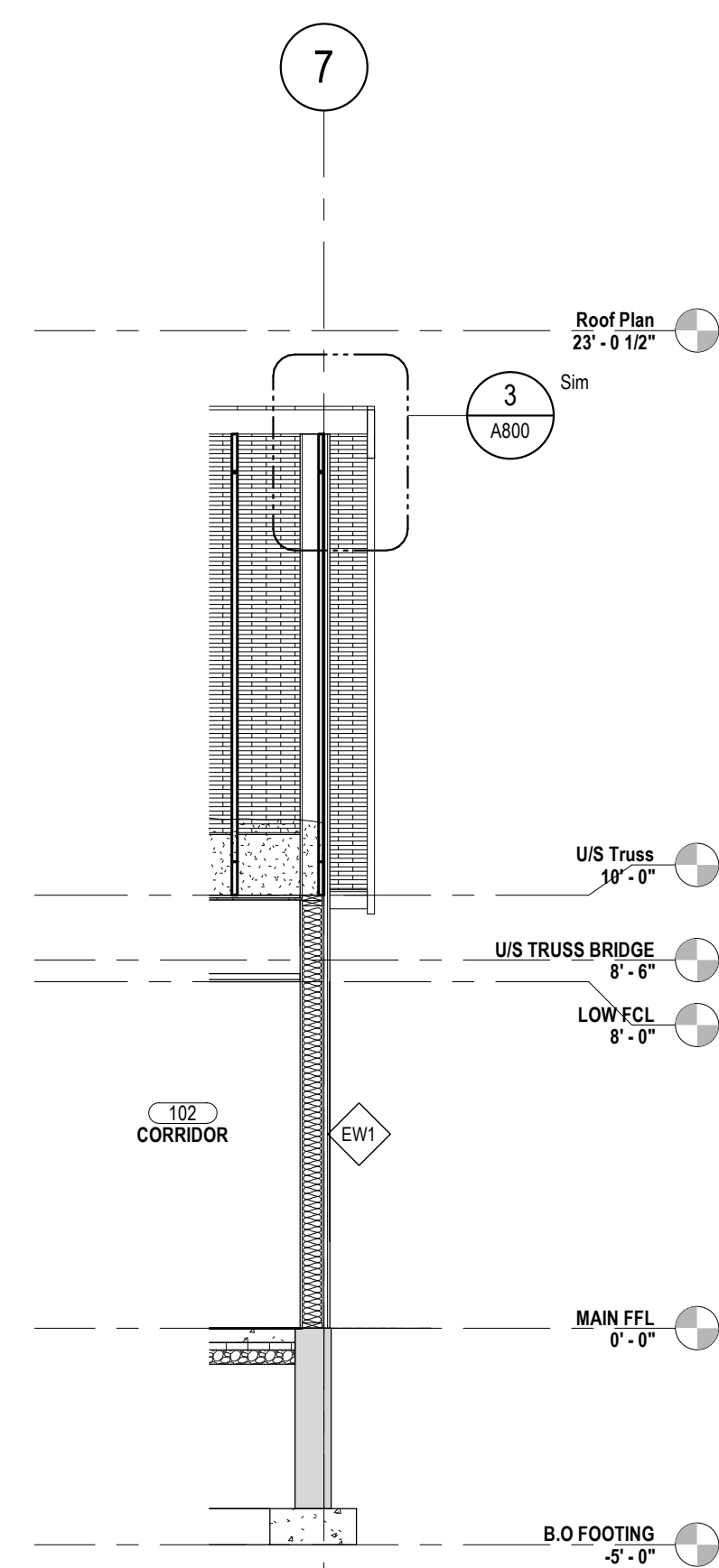
4 Section 3 - Callout 1
A350 1/4" = 1'-0"



5 Section 7 - Callout 1
A350 1/4" = 1'-0"



6 Section 7 - Callout 2
A350 1/4" = 1'-0"



7 Section 7 - Callout 3
A350 1/4" = 1'-0"

COLES
Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

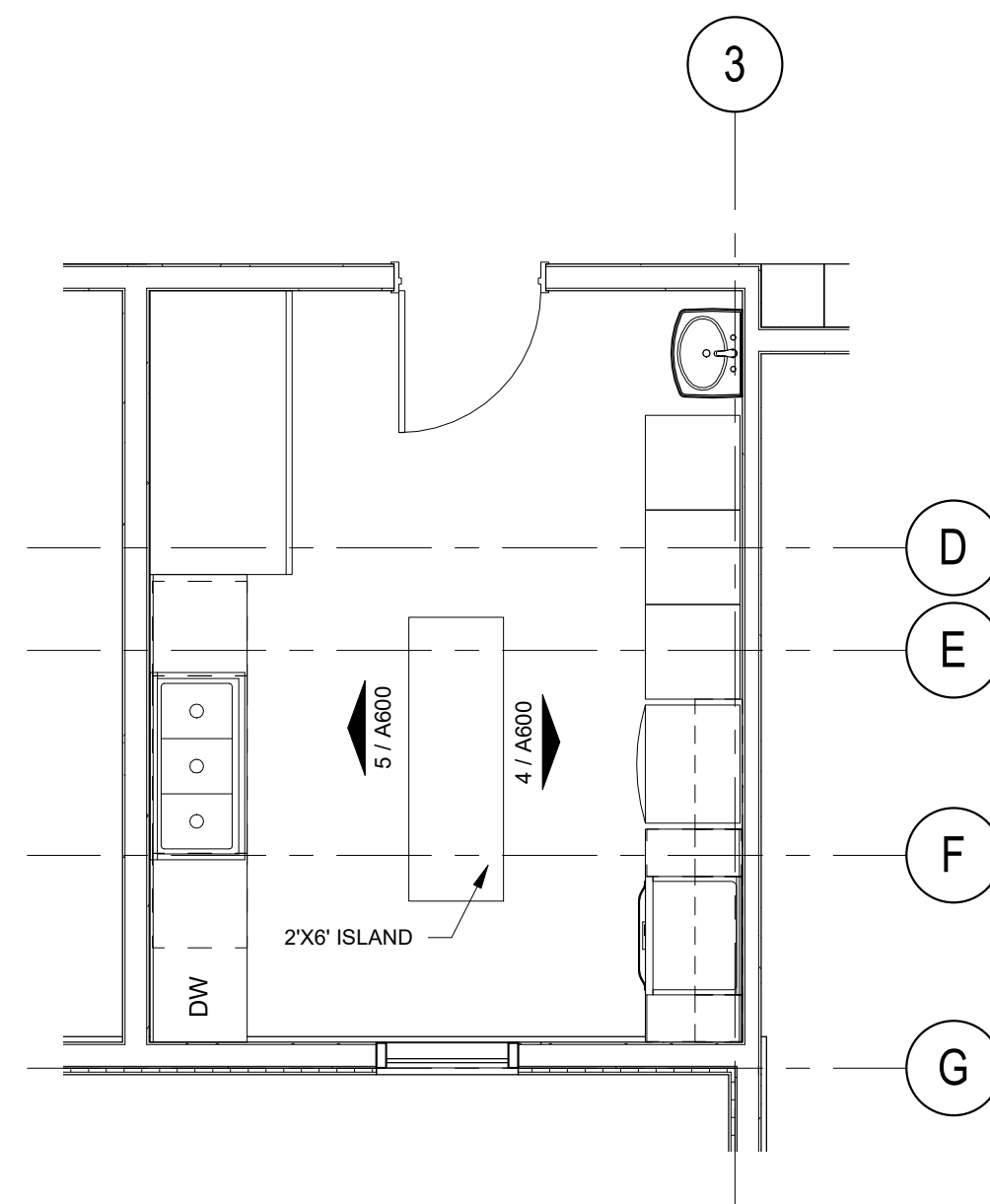


Client
Rural Municipality of Kinkora

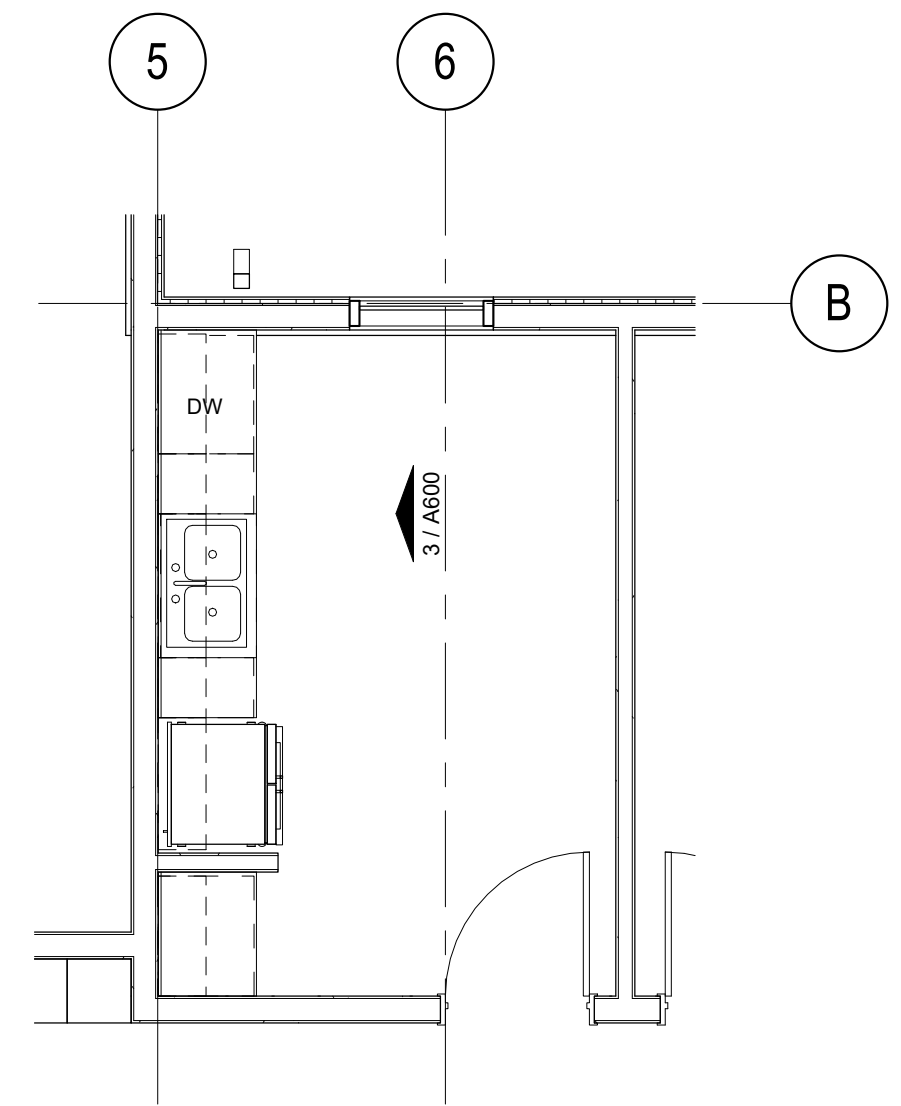
Project Title
Kinkora Community Hall Expansion

Sheet Title
Wall Sections

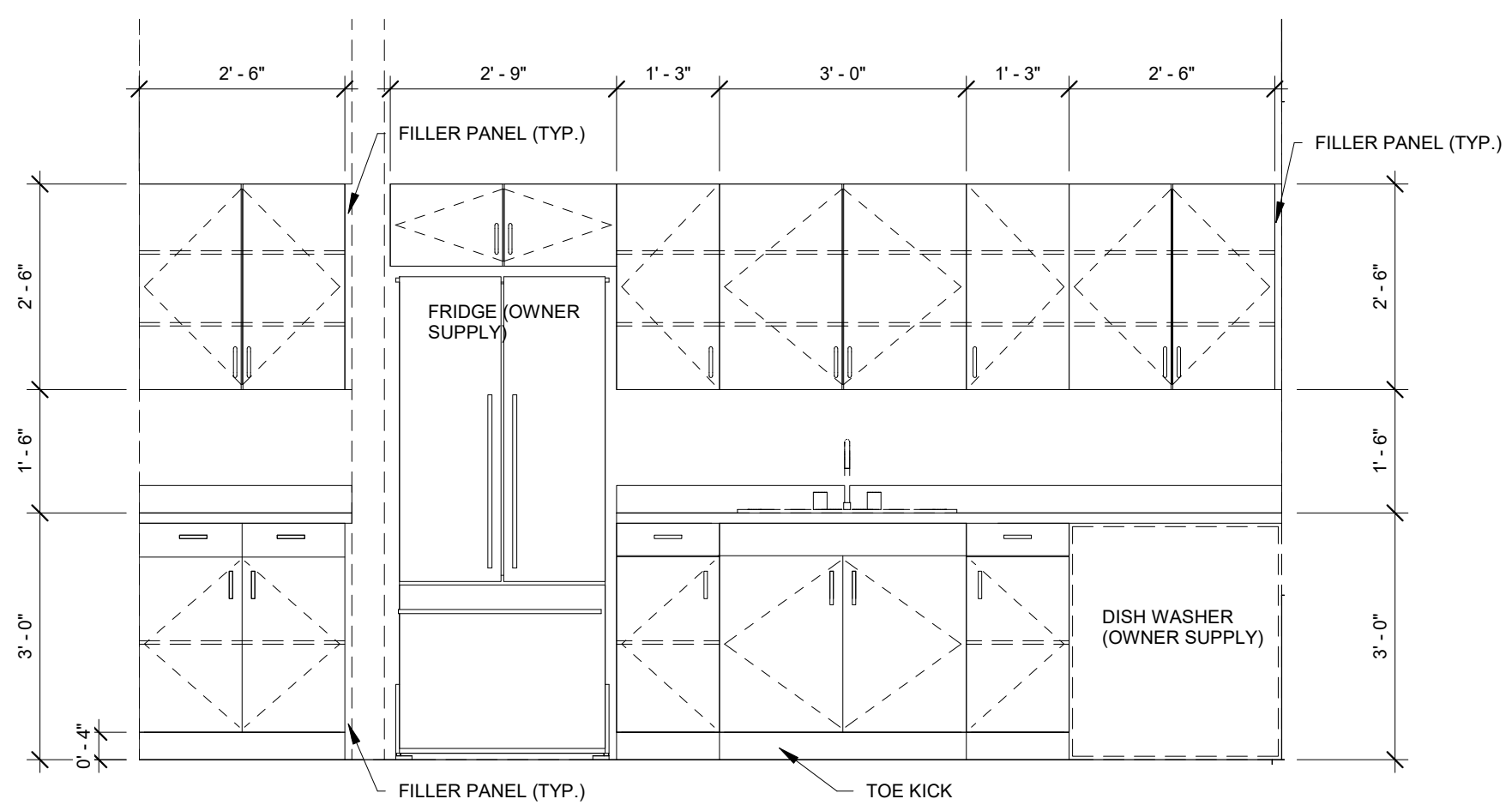
No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Dim By: DC	0
			Chk By: SDM	
			Project Number: 231053	
			Drawing Number: A350	



1 KITCHEN PLAN
A600 1/4" = 1'-0"



2 STAFF ROOM PLAN
A600 1/4" = 1'-0"

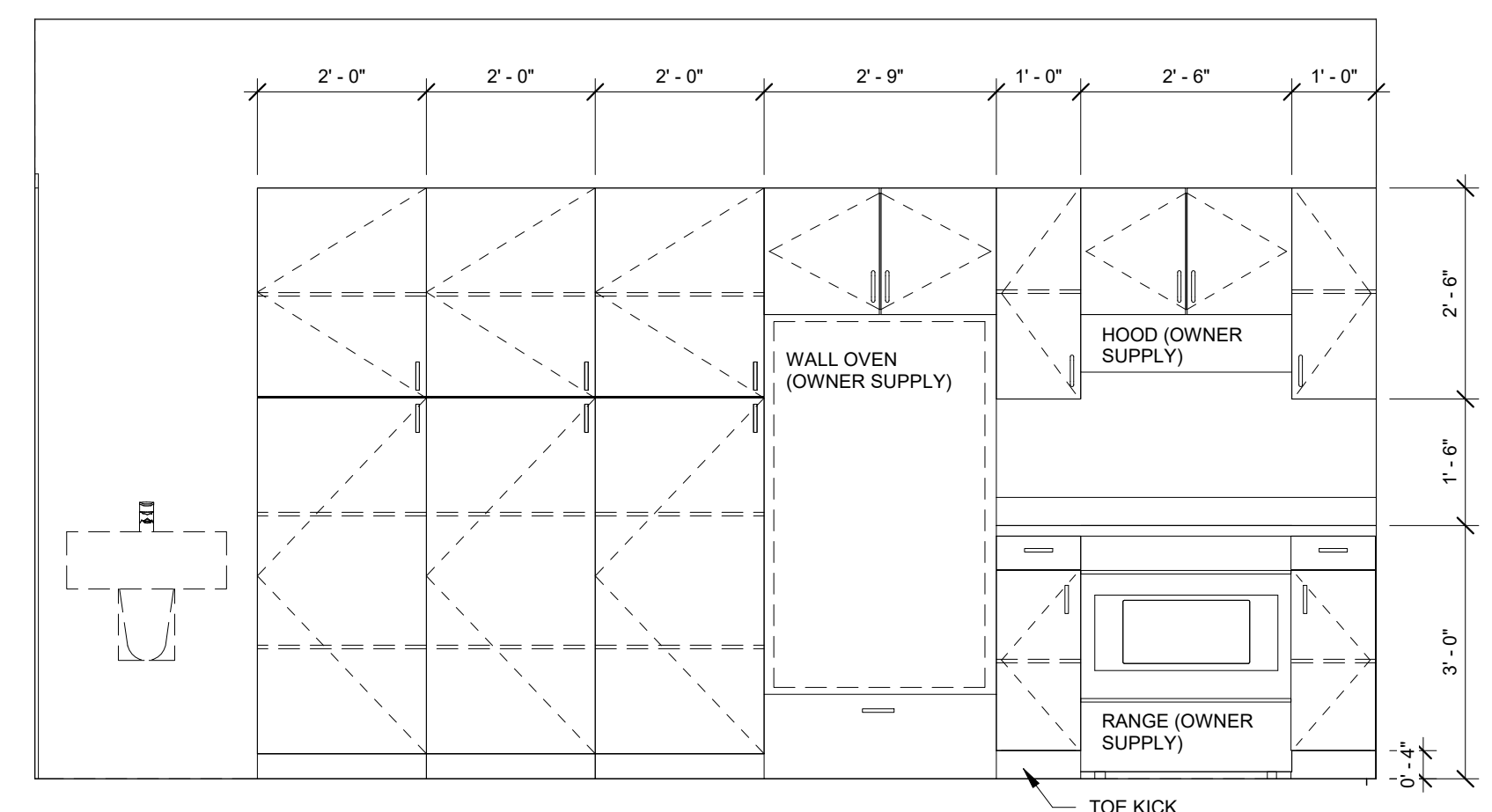


3 STAFF ROOM
A600 1/2" = 1'-0"

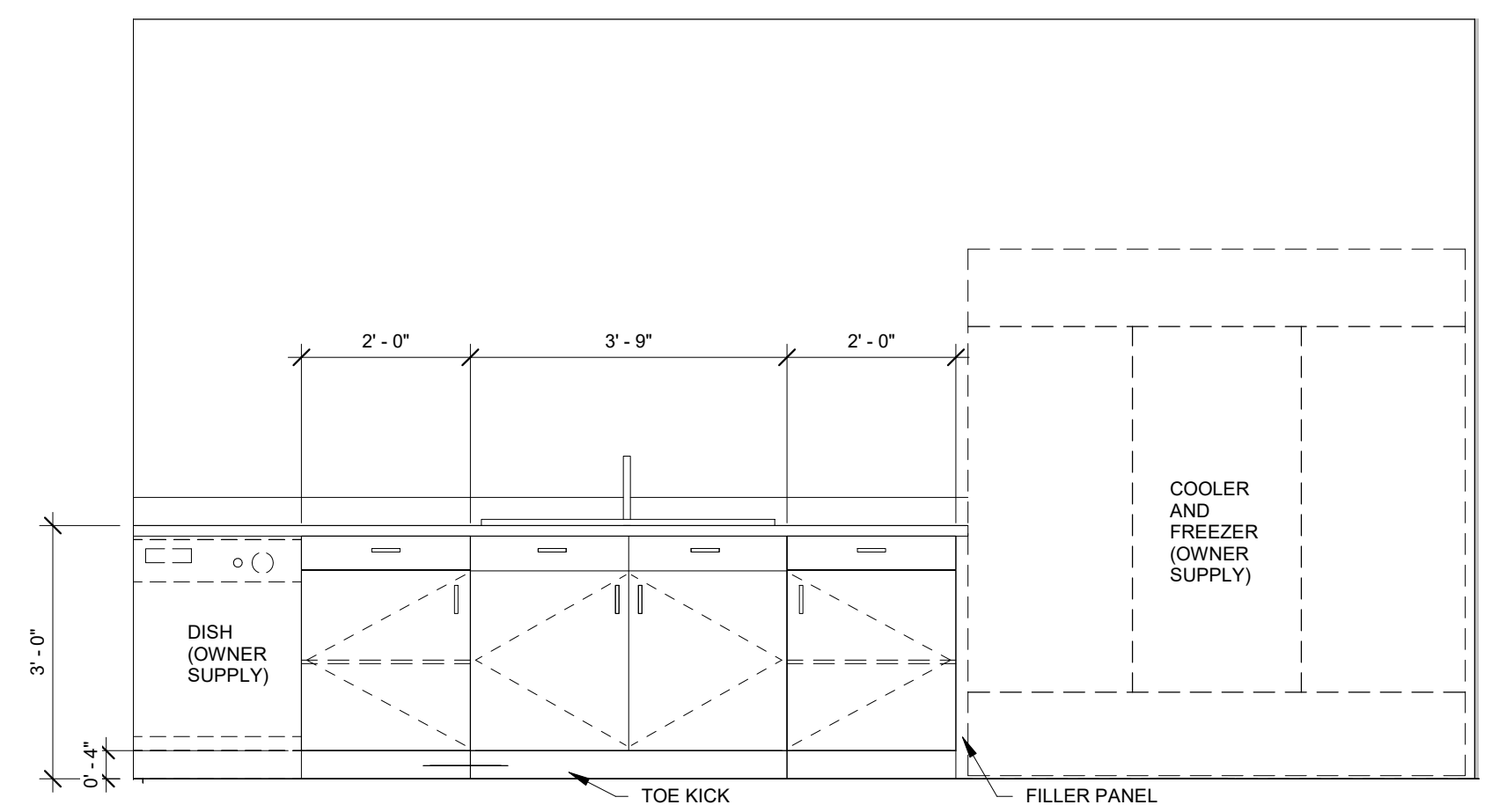
GENERAL SHEET NOTES

ALL CABINETS TO BE FLUSH OVERLAY, PARTICLE BOARD CORES, ADJUSTABLE SHELVES, SOFT-CLOSE DOORS AND DRAWERS, D-PULLS, LAMINATE FINISH. COUNTERTOPS TO BE POSTFORMED LAMINATE WITH 100 mm BACKSPLASH. STANDARD OF ACCEPTANCE:
KENT
HOMEDEPOT
SHERWOOD TIMBERMART

- ALL COUNTERTOPS AND BACKSPLASH PL-1
- ALL MILLWORK PL-2
- ADJUST MILLWORK DIMENSIONS ACCORDING TO THE SIZE OF OWNER SUPPLY APPLIANCES



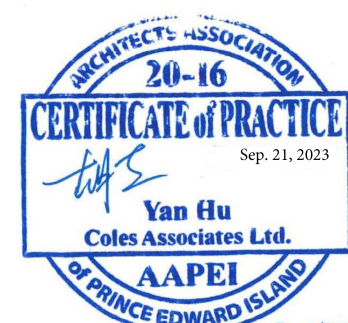
4 KITCHEN A
A600 1/2" = 1'-0"



5 KITCHEN B
A600 1/2" = 1'-0"



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

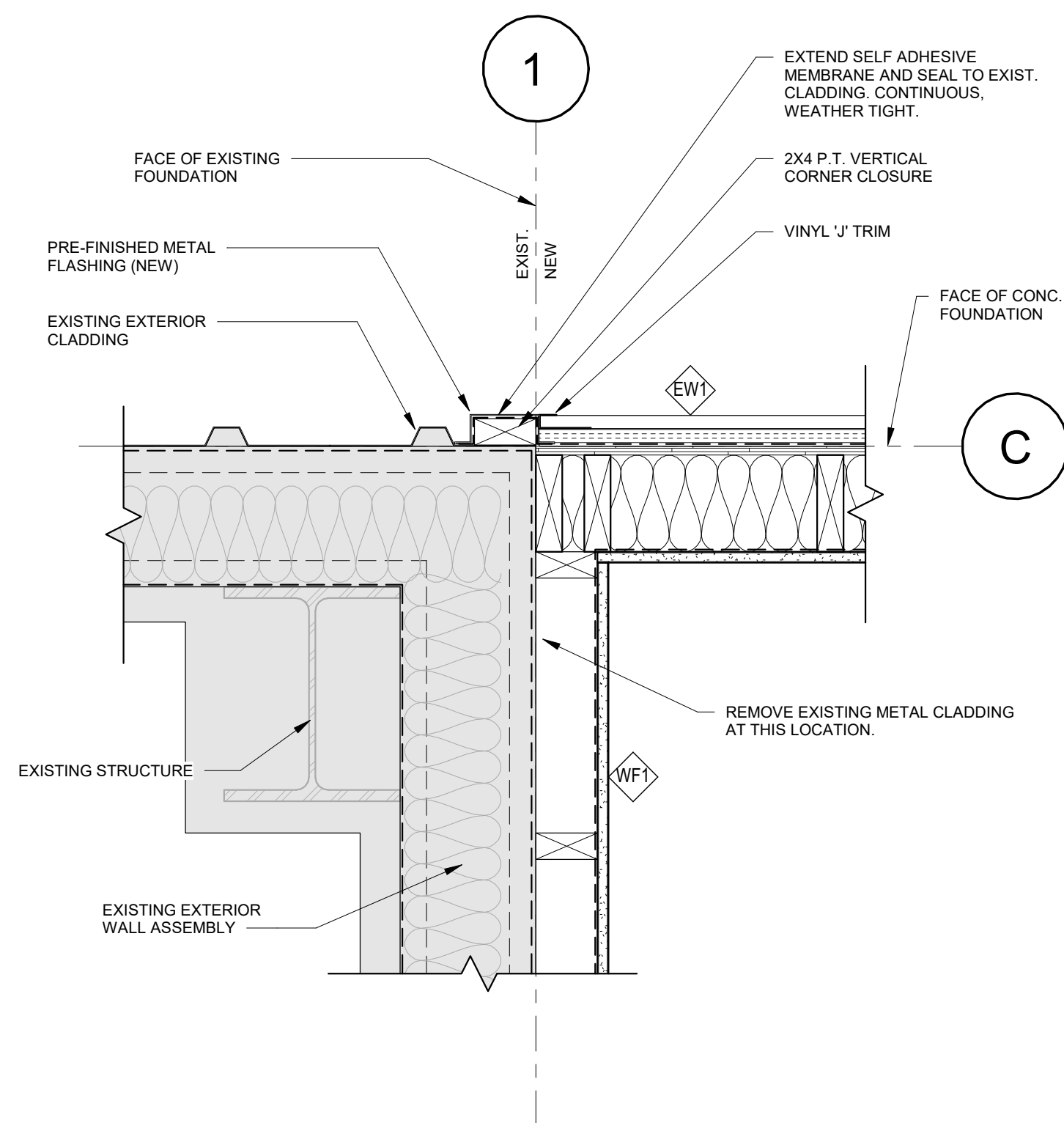


Client
Rural Municipality of Kinkora

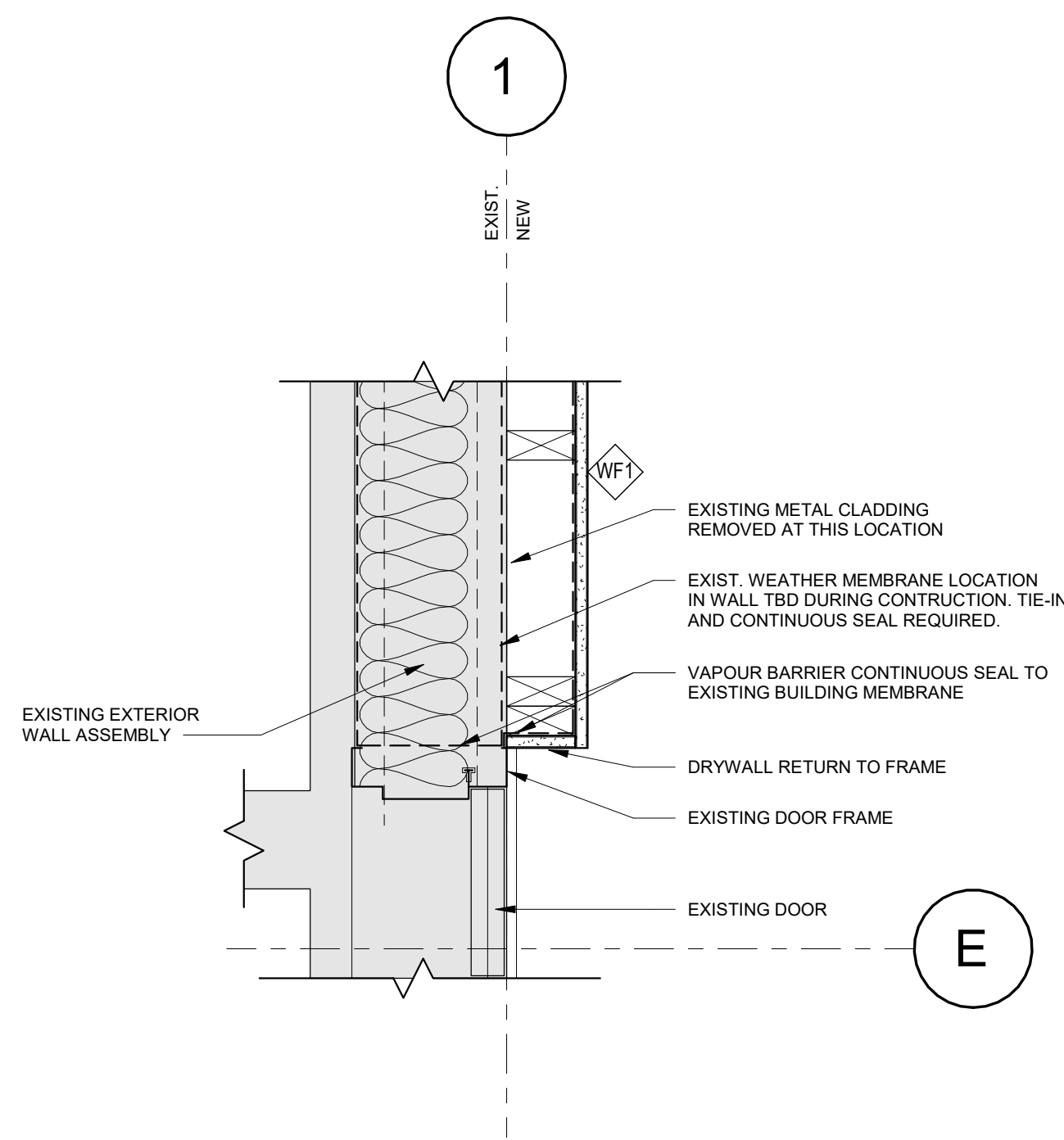
Project Title
Kinkora Community Hall Expansion

Sheet Title
Millwork Plans & Elevations

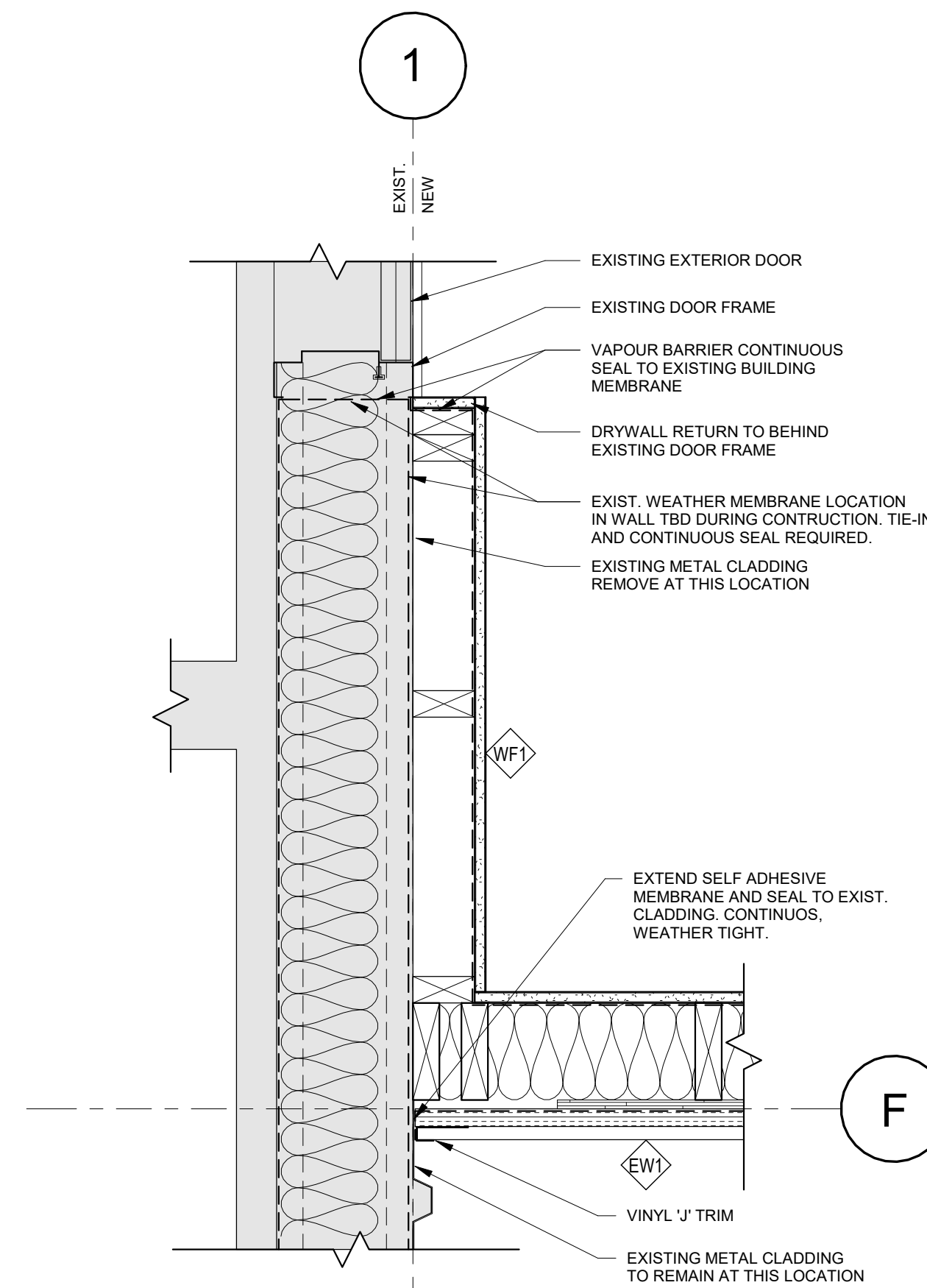
No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-09-21	2023-09-21	0
			Drn By: SH	
			Chk By: SDM	
			Project Number:	
			231053	
			Drawing Number:	
			A600	



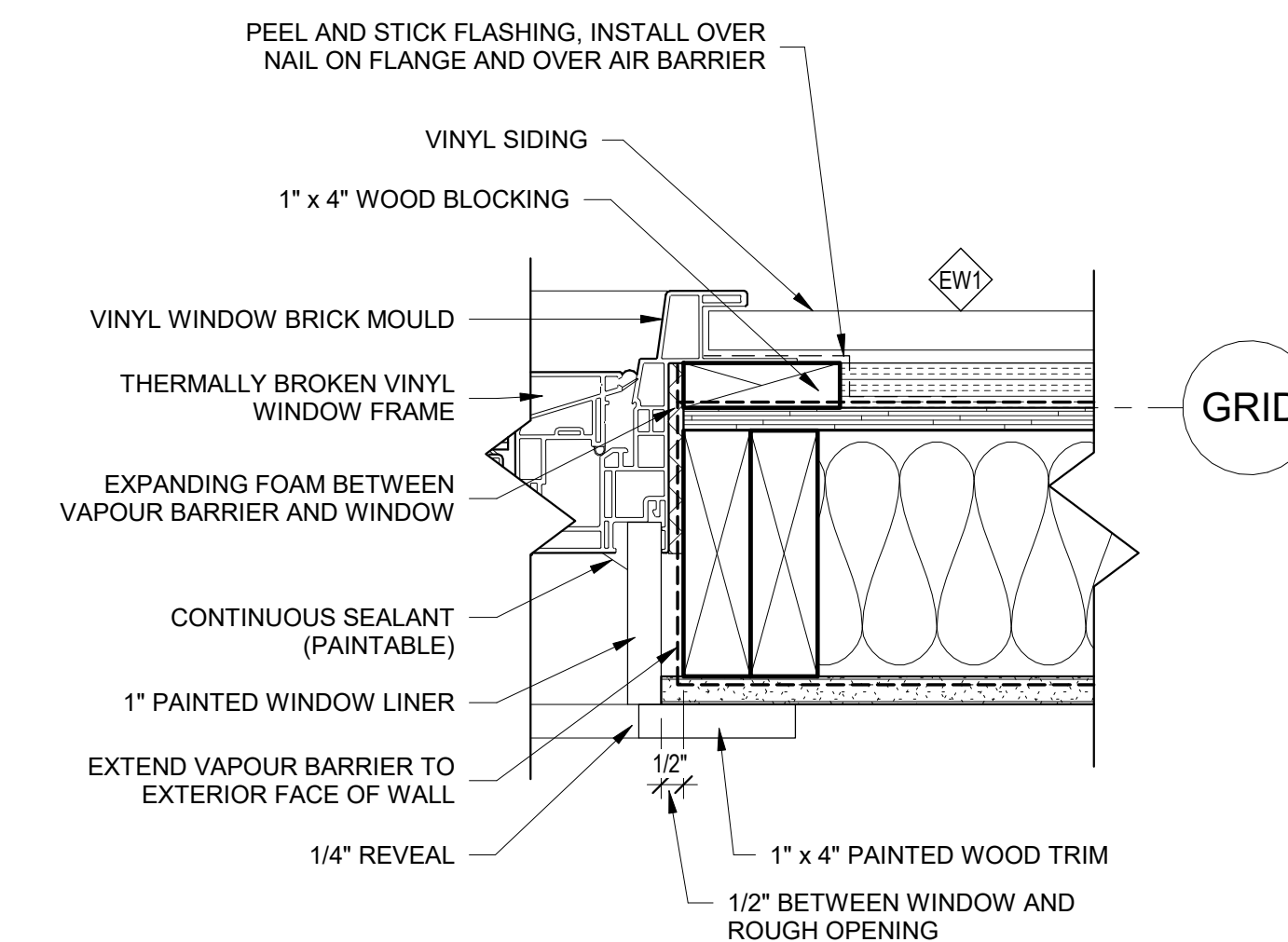
1 Plan Detail - New/Existing 01
A700 1 1/2" = 1'-0"



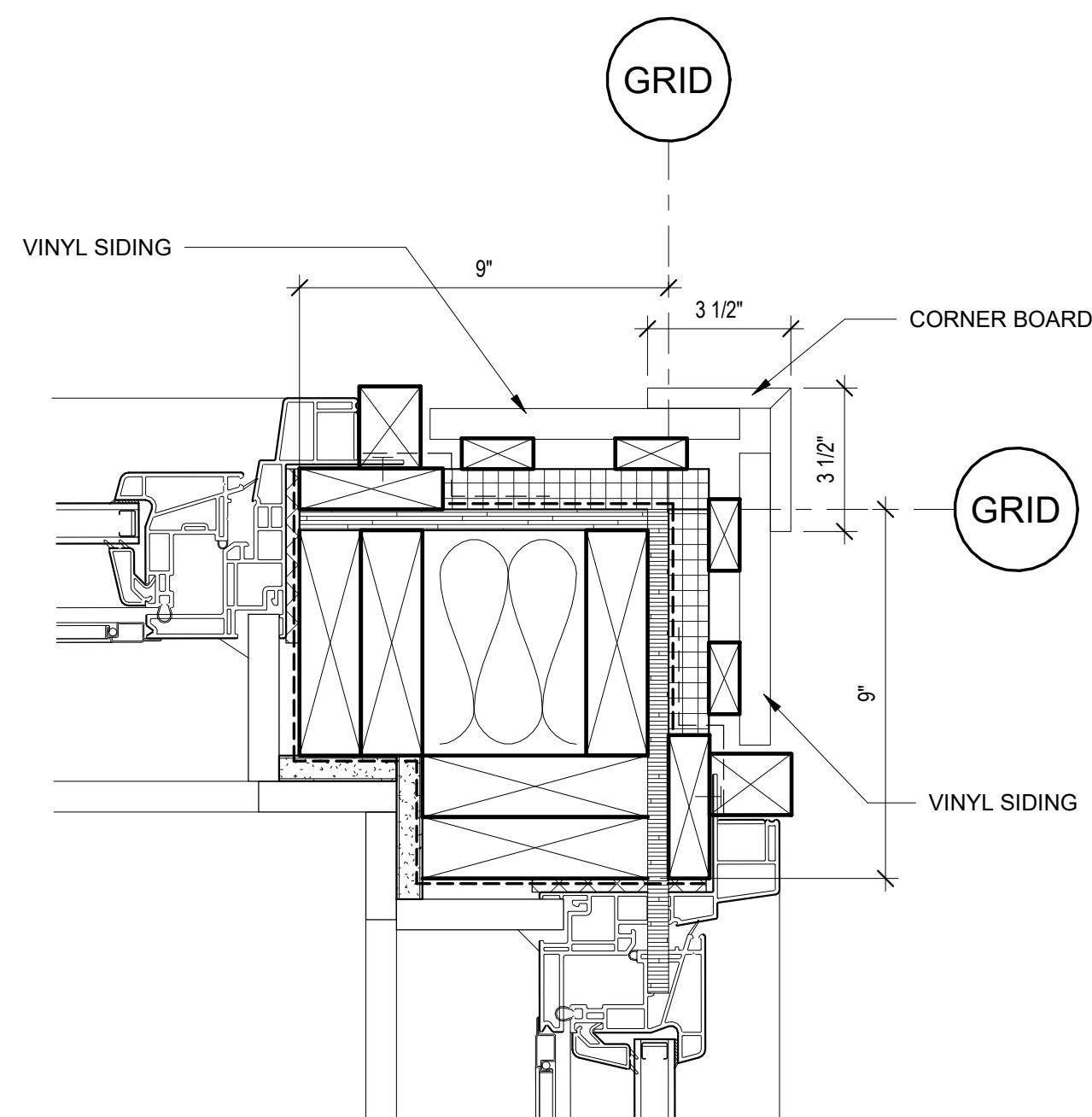
2 Plan Detail - New/Existing 02
A700 1 1/2" = 1'-0"



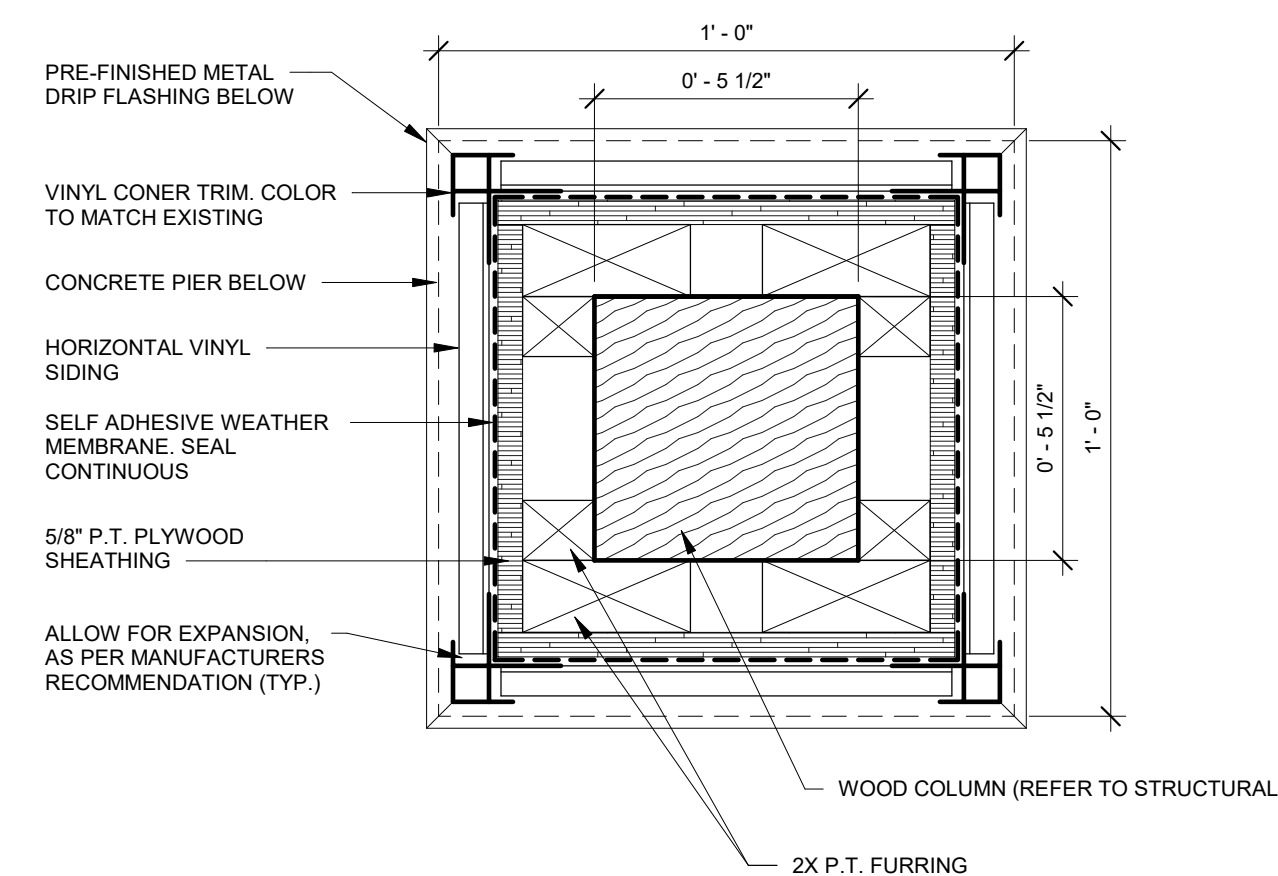
3 Plan Detail - New/Existing 03
A700 1 1/2" = 1'-0"



4 Plan Detail - Vinyl Window Jamb Typical
A700 3" = 1'-0"



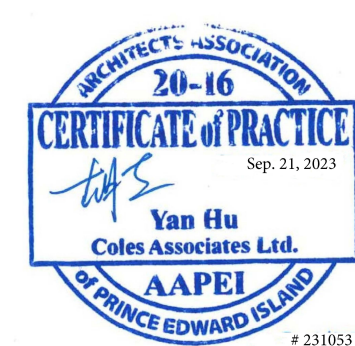
5 VINYL WINDOW JAMB AT CORNER
A700 3" = 1'-0"



6 Plan Detail - Column Base
A700 3" = 1'-0"

COLES
Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

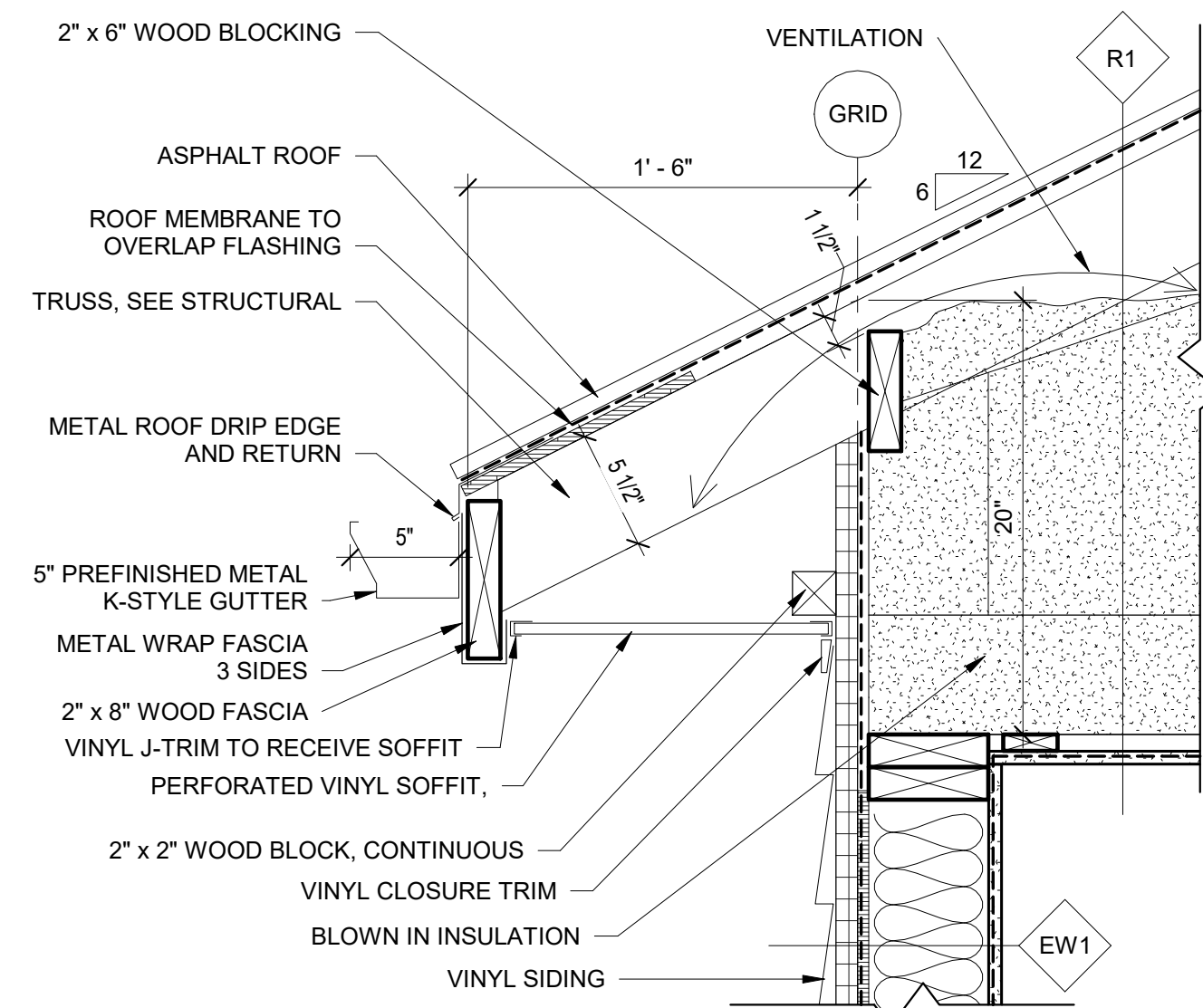


Client
Rural Municipality of Kinkora

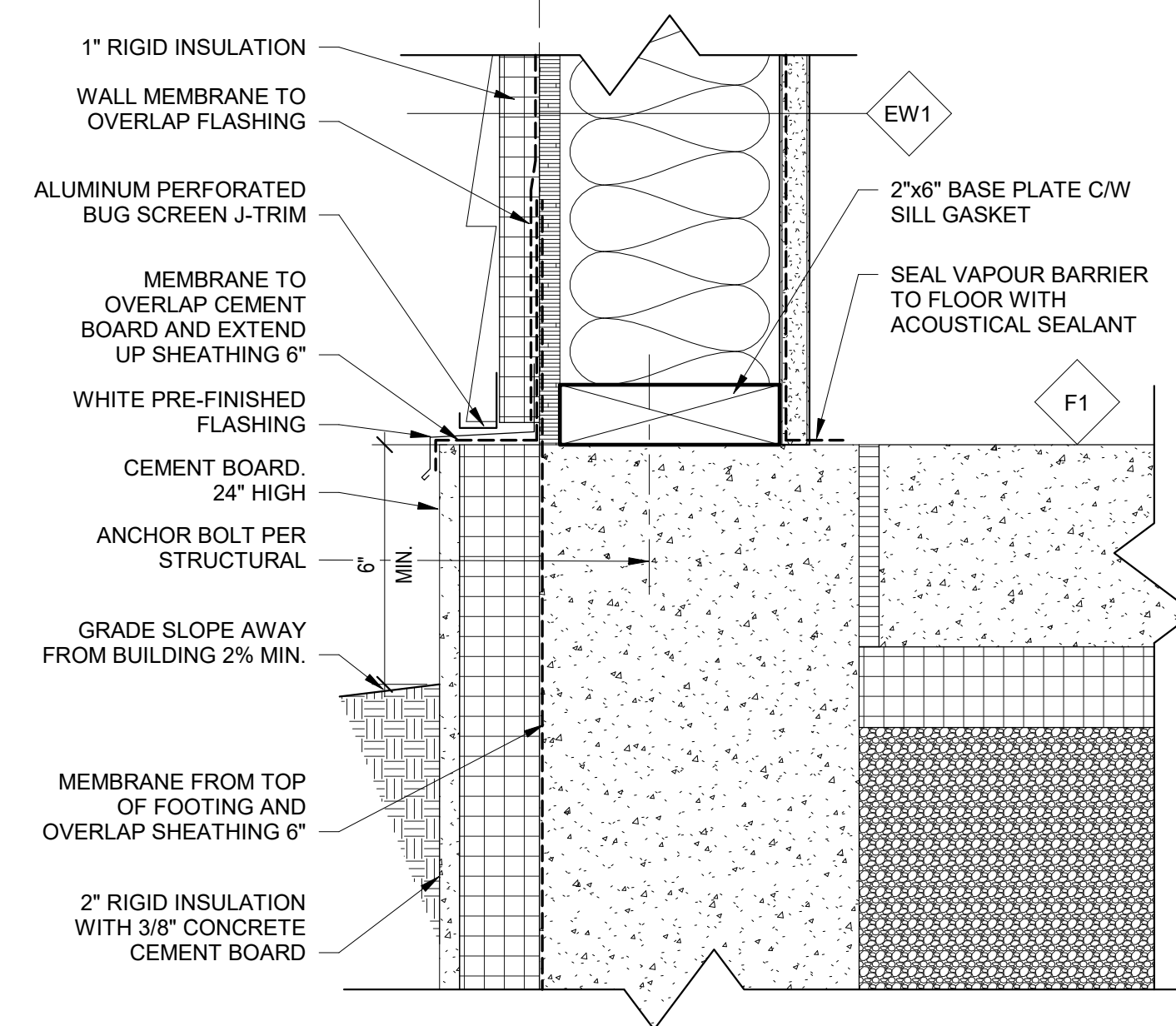
Project Title
Kinkora Community Hall Expansion

Sheet Title
Plan Details

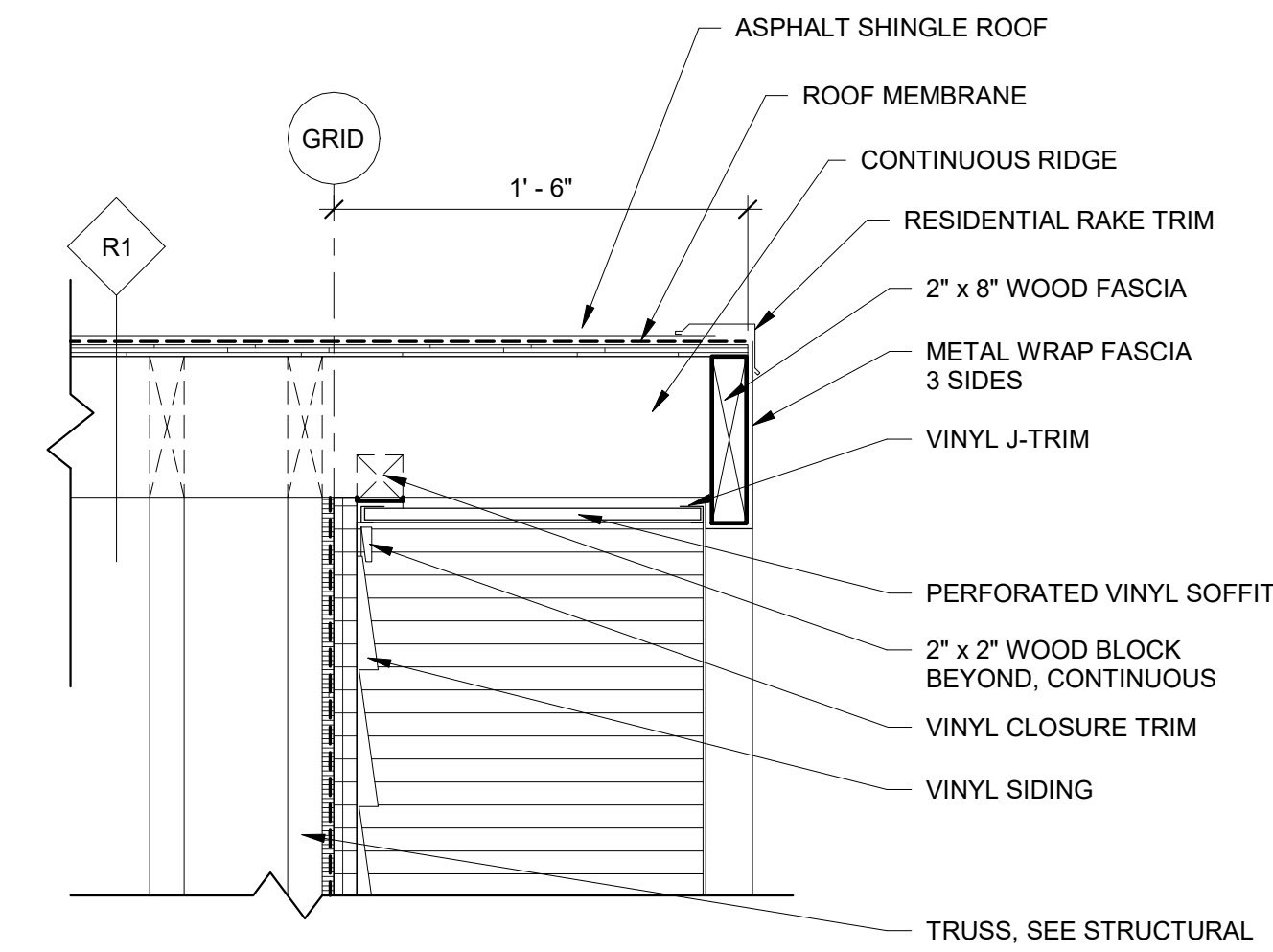
No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	DC	0
			SDM	
			Project Number: 231053	
			Drawing Number: A700	



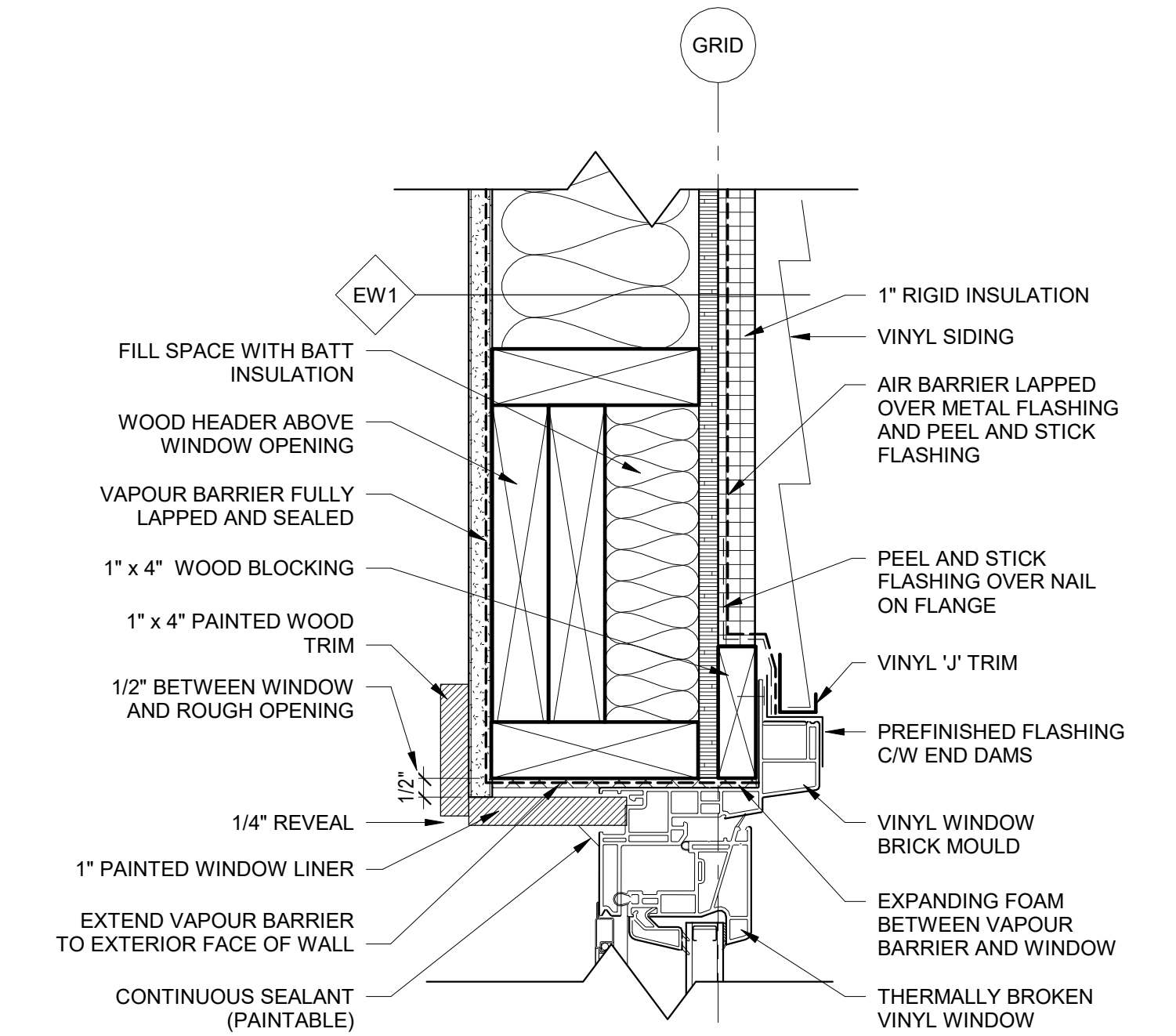
1 Section Detail - Eave Typical
A800 1 1/2" x 1'-0"



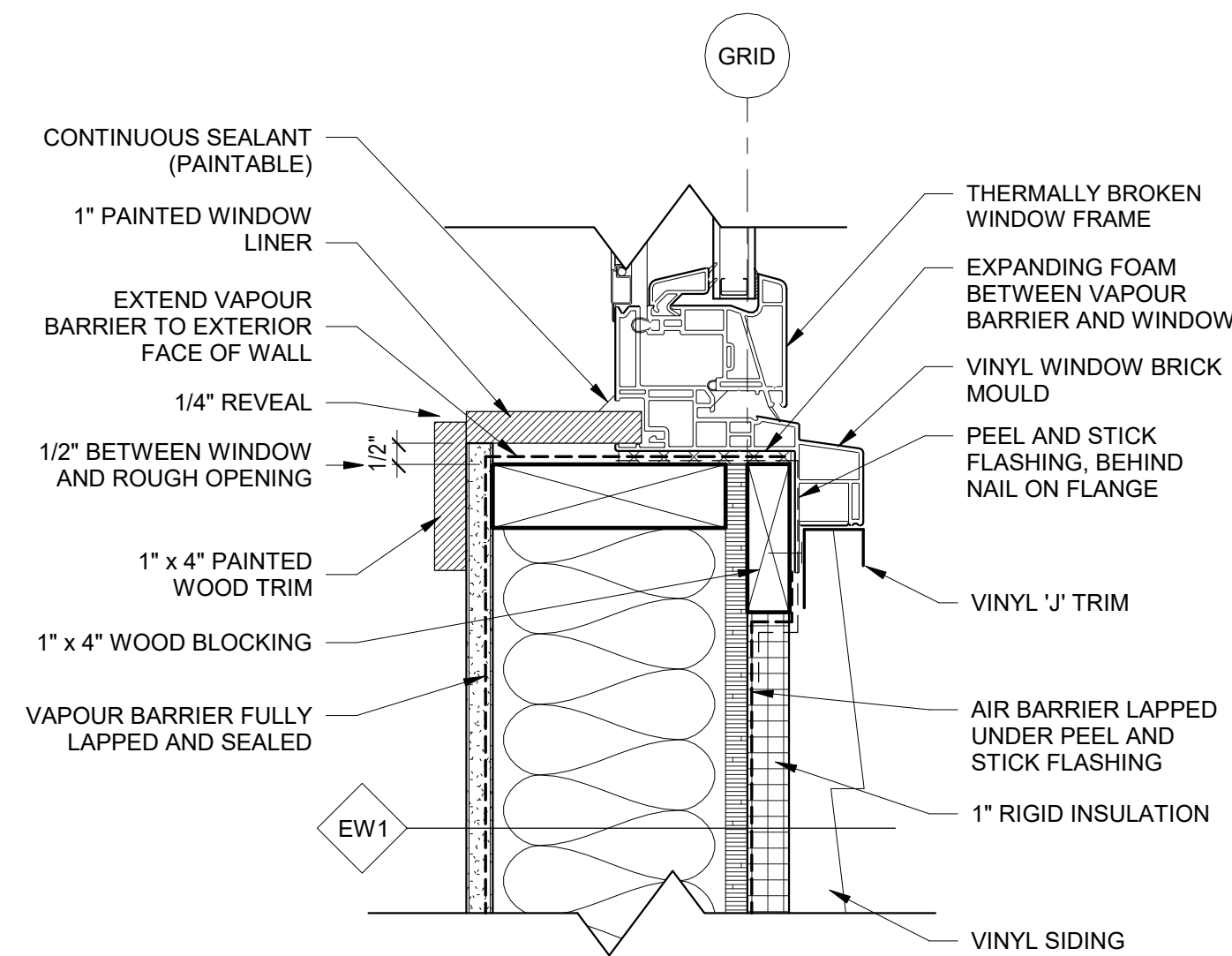
2 Section Detail - Base
A800 3" x 1'-0"



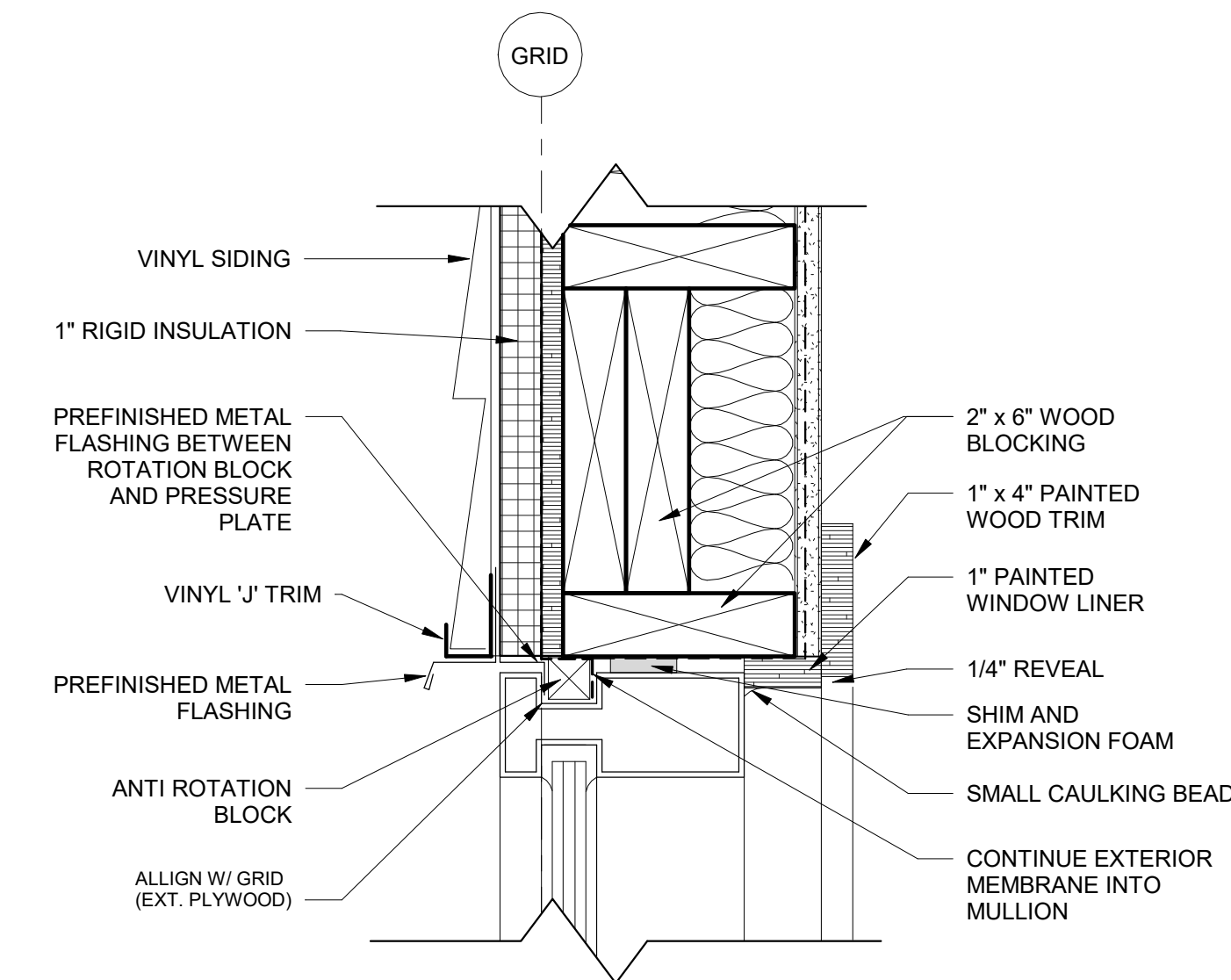
3 Section Detail - Roof Rake (Typ.)
A800 1 1/2" x 1'-0"



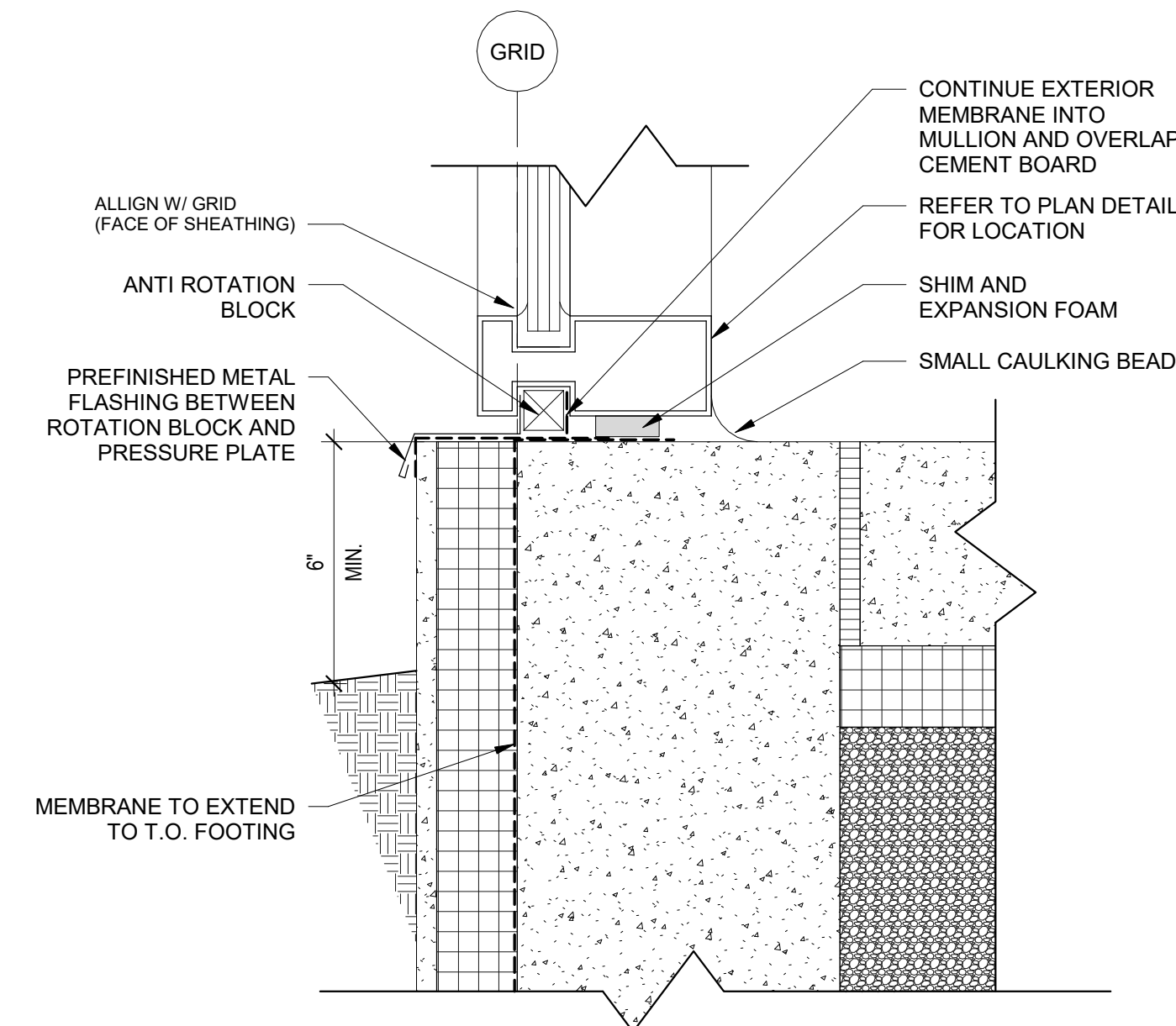
4 Section Detail - Window Head (Vinyl)
A800 3" x 1'-0"



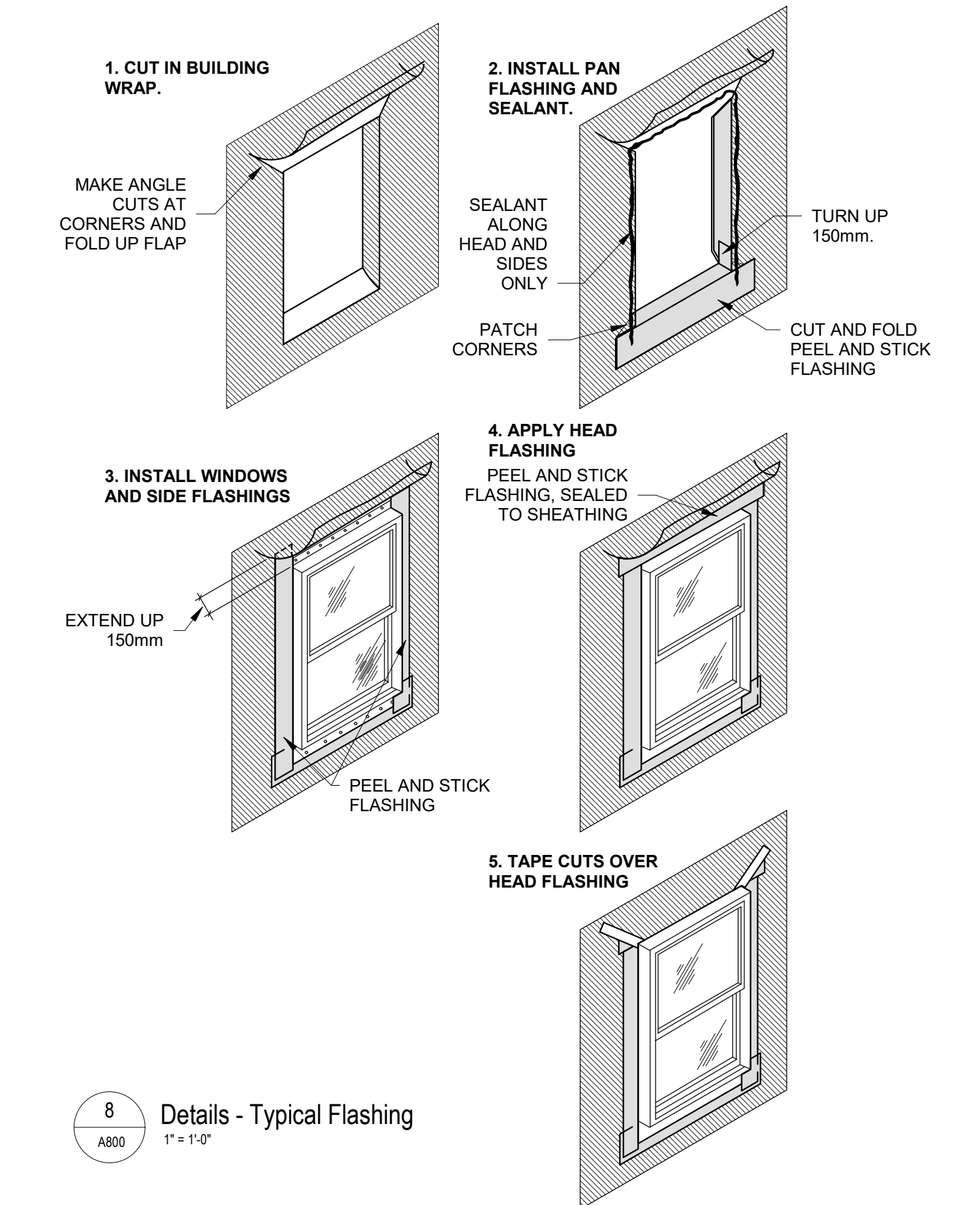
5 Section Detail - Window Sill (Vinyl)
A800 3" x 1'-0"



6 Section Detail - Aluminum Window Head
A800 3" x 1'-0"



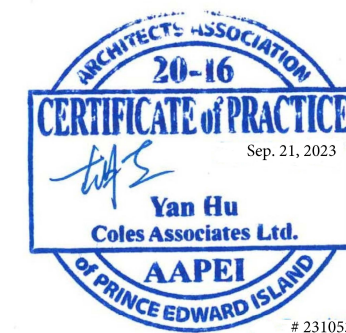
7 Section Detail - Aluminum Window Base
A800 3" x 1'-0"



8 Details - Typical Flashing
A800 1" x 1'-0"

COLES
Architecture + Engineering + Project Management

Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

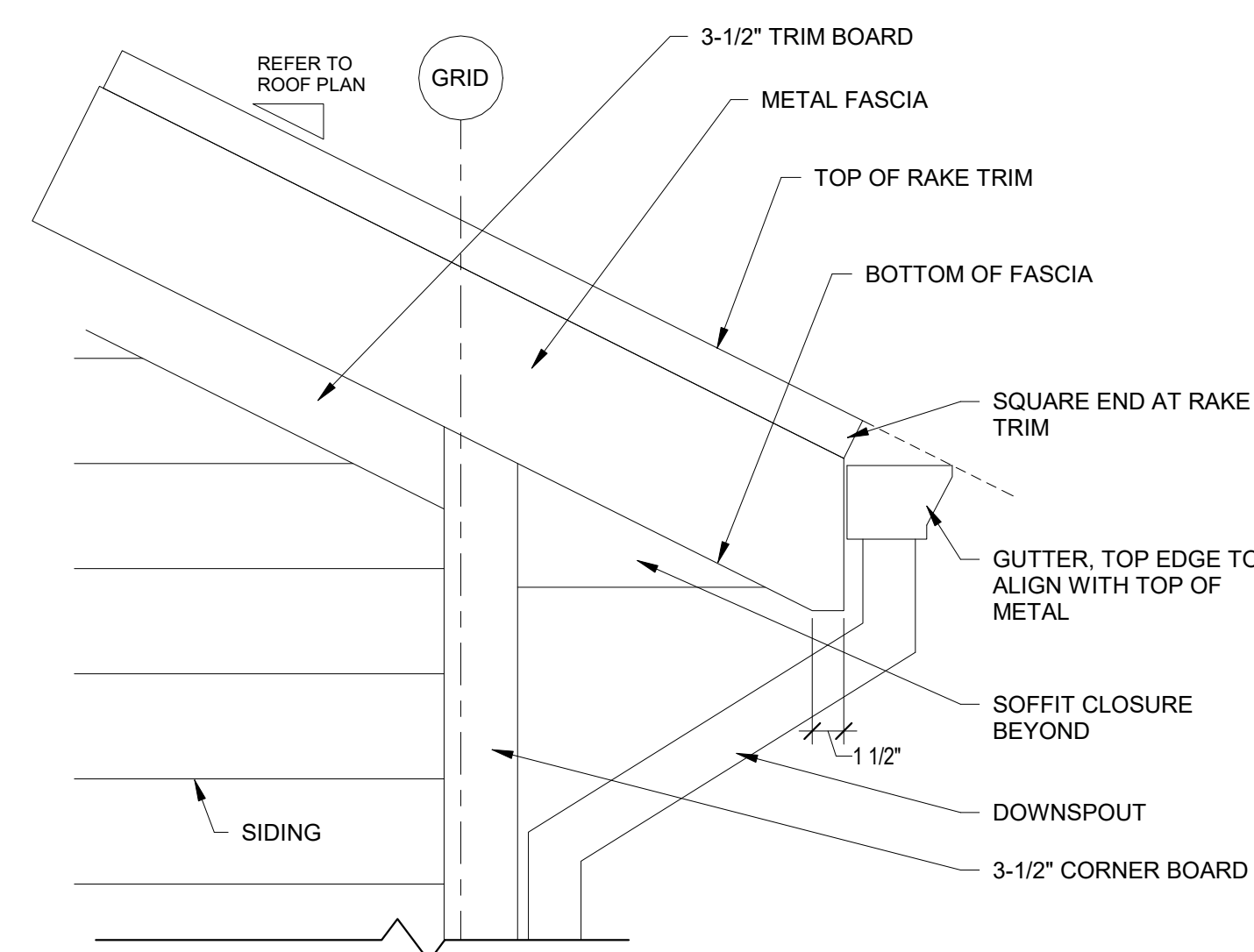


Client
Rural Municipality of Kinkora

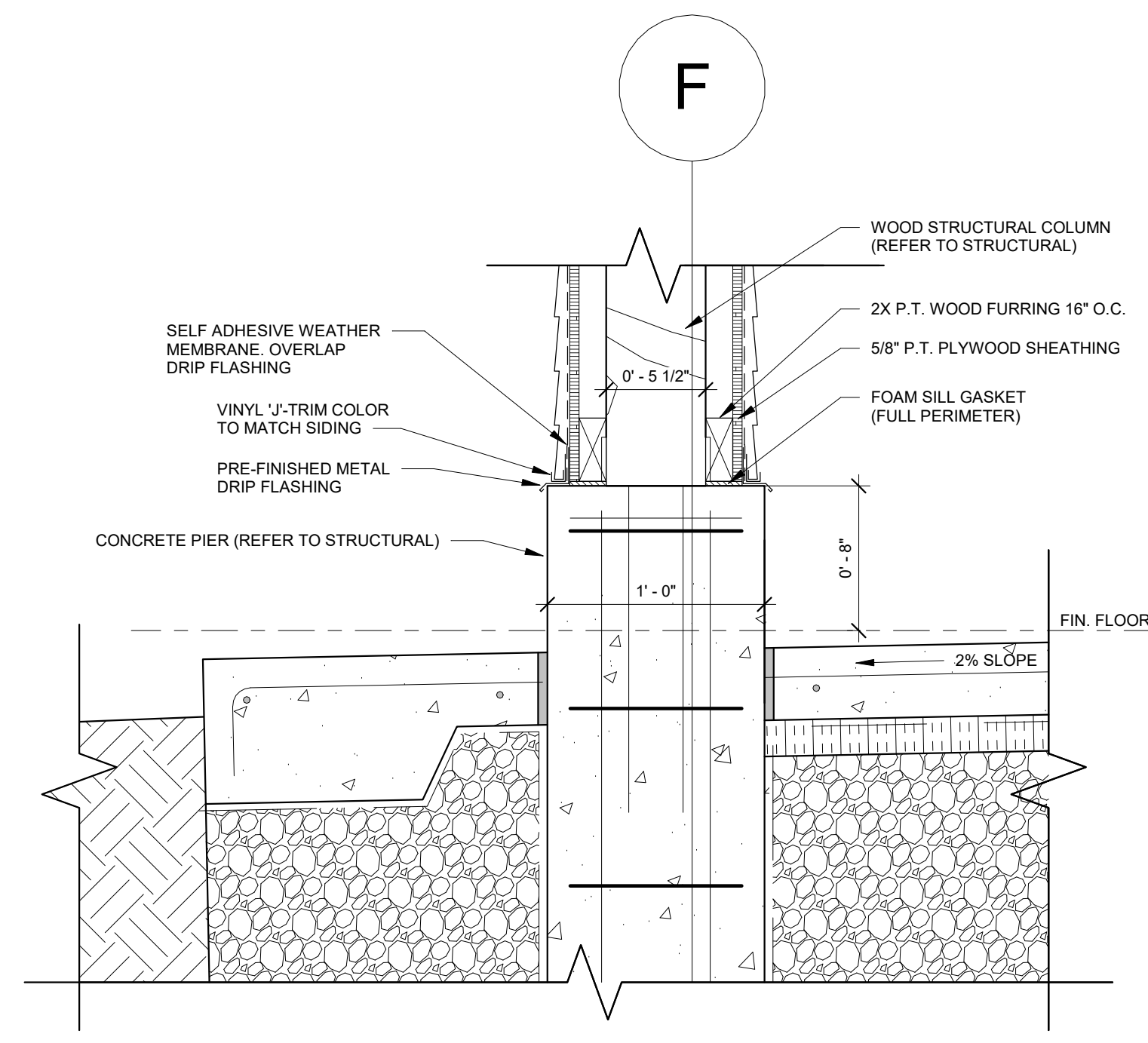
Project Title
Kinkora Community Hall Expansion

Sheet Title
Section Details

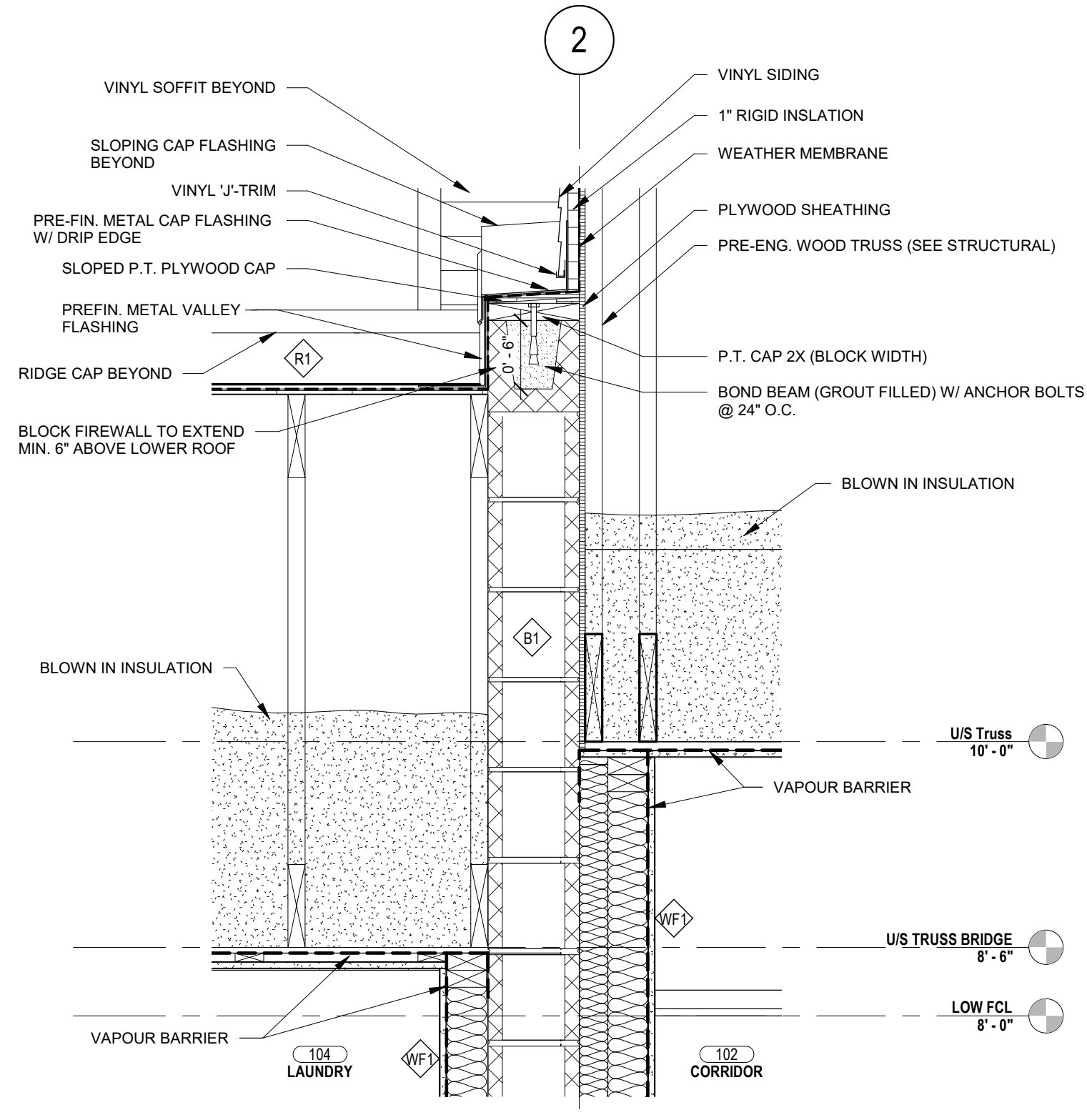
No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-09-21	2023-09-21	0
			Dim By: DC	
			Chk By: SDM	
			Project Number:	
			231053	
			Drawing Number:	
			A800	



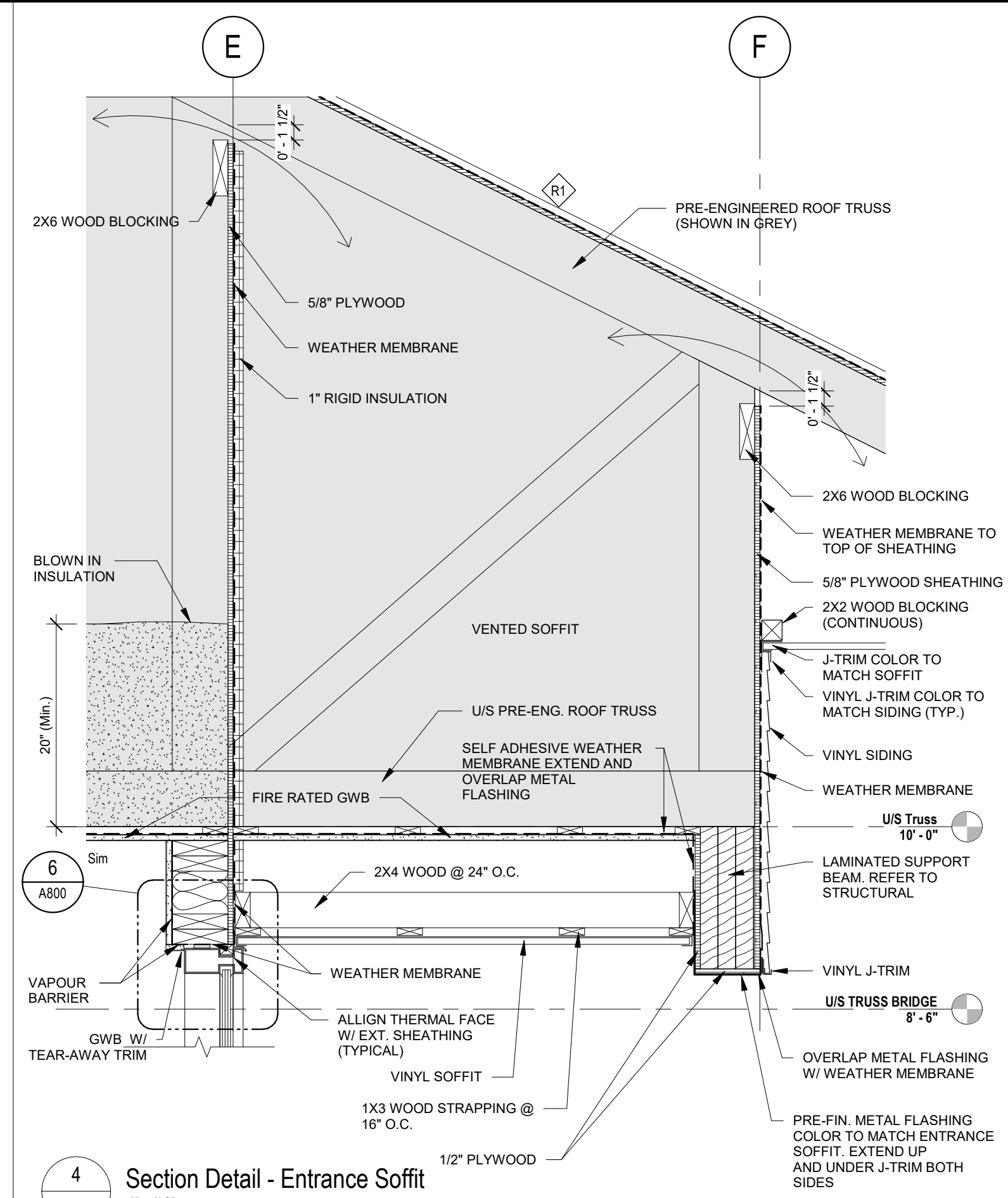
1 Detail - Eave (Typical)
A801 1 1/2" = 1'-0"



2 Section Detail - Column Base
A801 1 1/2" = 1'-0"



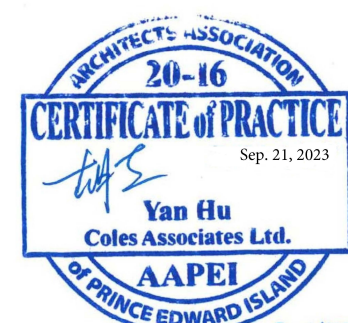
3 Section Detail - New/Exist Rated
A801 1" = 1'-0"



4 Section Detail - Entrance Soffit
A801 1" = 1'-0"



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

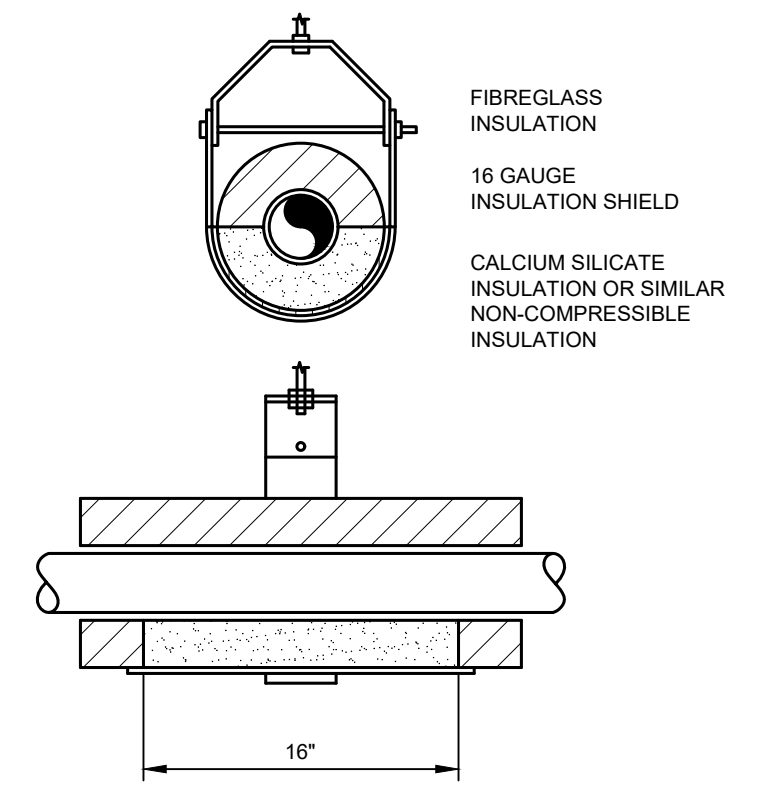
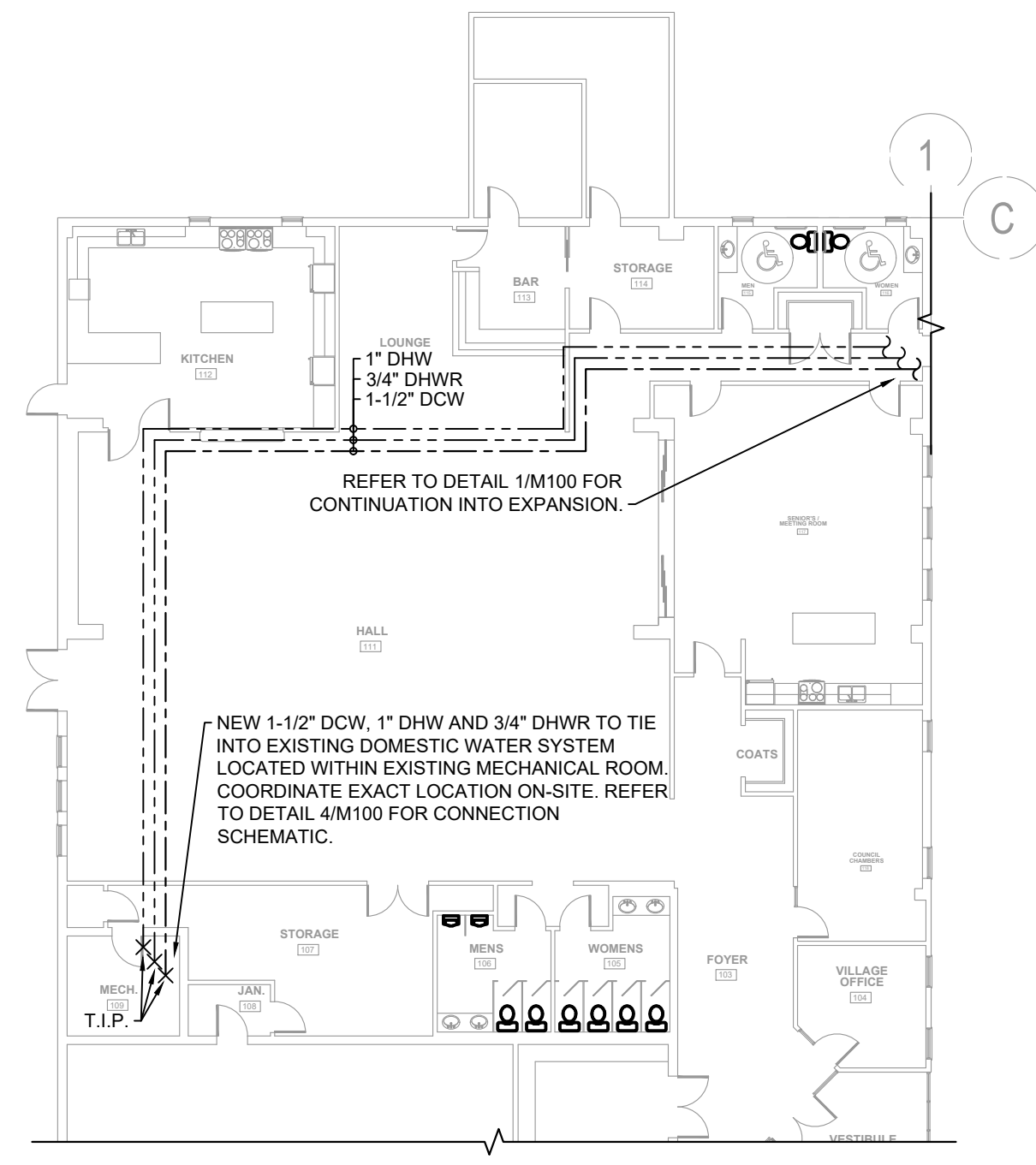
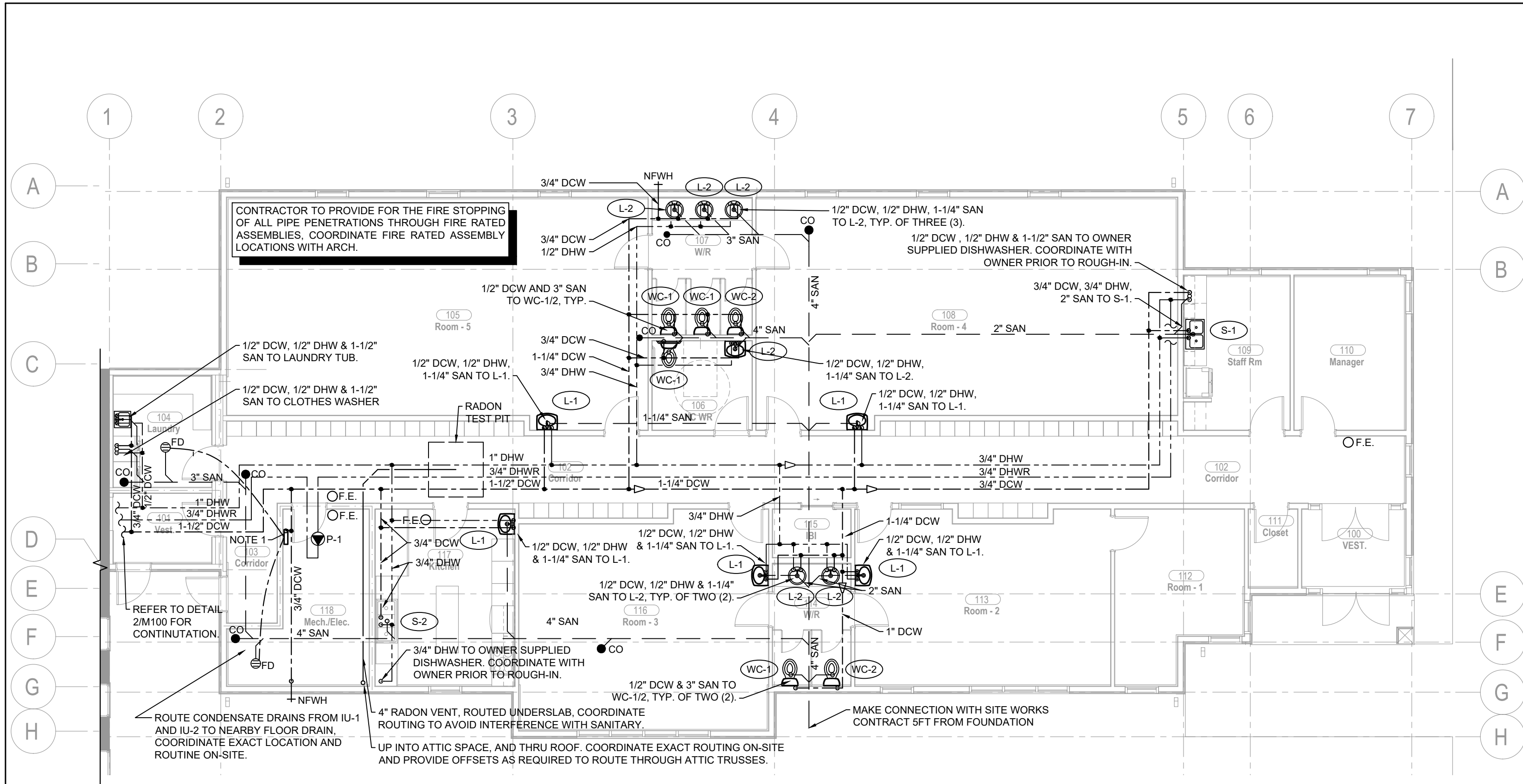


Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

Sheet Title
Details

No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Dm By: DC	0
			Chk By: SDM	
			Project Number: 231053	
			Drawing Number: A801	



LEGEND:

- BALL VALVE
- ISOLATION VALVE
- BUTTERFLY VALVE
- GATE VALVE
- CHECK VALVE
- REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER
- AUTOMATIC AIR VENT
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- MIXING VALVE
- PIPE TO DRAIN
- PIPE TEE
- PUMP
- UNION
- FUNNEL FLOOR DRAIN
- FLOOR DRAIN
- INSULATION
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TIE IN POINT
- PIPE CONTINUATION
- PERMANENT CAP
- STRAINER
- 10L TYPE ABC FIRE EXTINGUISHER WITH WALL MOUNTING BRACKET

--- DOMESTIC COLD WATER (DCW)
 --- DOMESTIC HOT WATER (DHW)
 --- SANITARY DRAINAGE (SAN)
 --- STORMWATER (SW)
 --- RADON GAS VENT (G)
 --- REFRIGERANT LIQUID (RL)
 --- REFRIGERANT DISCHARGE GAS (RD)
 --- ITEMS TO BE REMOVED
 --- CONTROL WIRING

1 EXPANSION PLUMBING PLANS
M100 1/8" = 1'0"

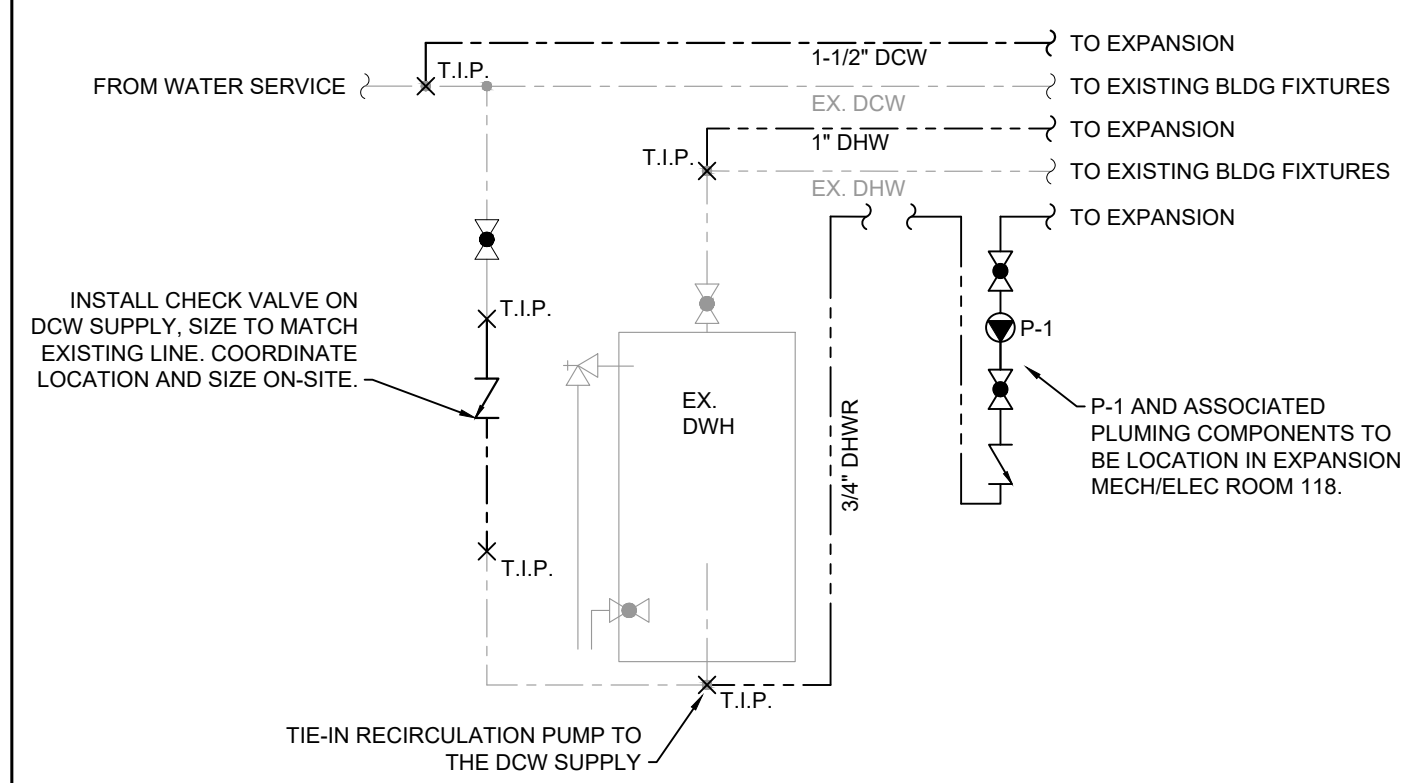
2 EXISTING BUILDING PLUMBING PLANS
M100 1/16" = 1'0"

3 PIPE INSULATION SHIELDS
M100 NTS

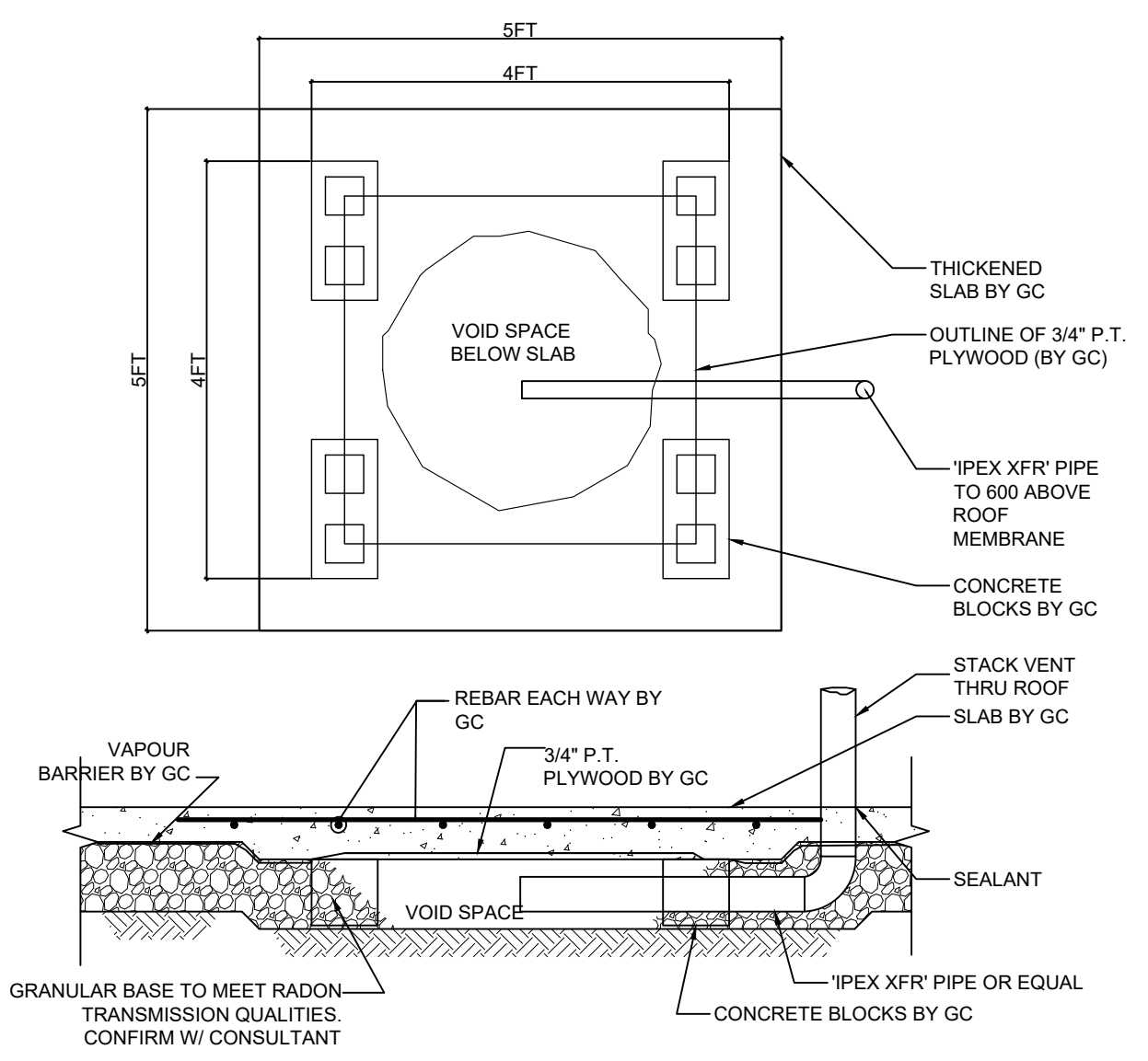
NOTES:
 1. PROVIDE 1/2" DCW TO ELECTRONIC TRAP PRIMING MANIFOLD. FROM TRAP PRIMER MANIFOLD ROUTE 1/2" PEX LINES IN SLAB TO ALL FLOOR DRAINS WITHIN EXPANSION. COORDINATE EXACT ROUTING ON-SITE TO ENSURE NO INTERFERENCE WITH OTHER BUILDING SYSTEMS. ELECTRONIC TRAP PRIMER MANIFOLD TO BE PROVIDED WITH 120V/24V STEP DOWN TRANSFORMER, AND PRIMER TO BE OPERATED ON 24VAC POWER. ALL LOW VOLTAGE WIRING TO BE PROVIDED BY THIS CONTRACT. COORDINATE LINE VOLTAGE WIRING WITH ELECTRICAL TRADE PRIOR TO TENDER CLOSE AND ON-SITE DURING INSTALLATION.

DRAIN, WASTE AND VENT PIPING MATERIAL SCHEDULE

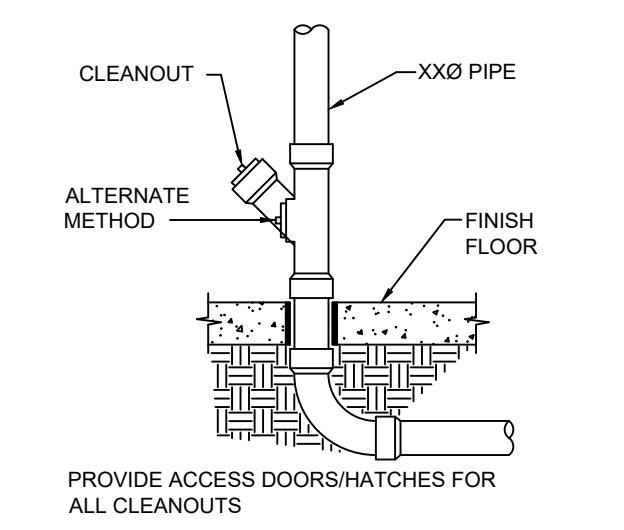
LOCATION / APPLICATION	ACCEPTABLE MATERIALS
BURIED (U/G) DWV PIPING	CAST IRON, COPPER, ABS, PVC (IPEX SYSTEM 15 OR EQUAL)
A/G DWV PIPING WITHIN COMBUSTION CONSTRUCTION	CAST IRON, COPPER, PVC (IPEX SYSTEM 15 OR EQUAL)
A/G DWV WITHIN PLENUM SPACES OR EXPOSED OCCUPIABLE SPACES	CAST IRON, COPPER, PVC WITH 2550 FLAME/SMOKE RATING (IPEX SYSTEM XFR OR EQUAL)



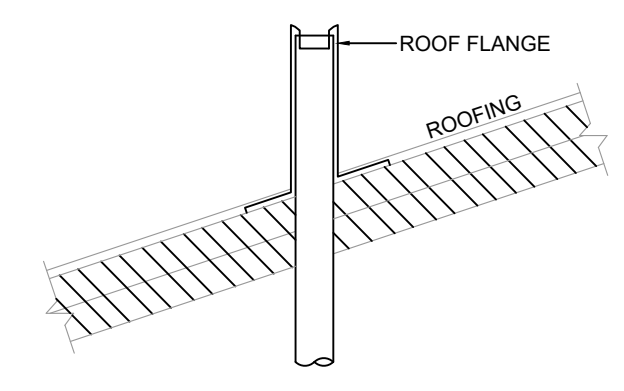
4 DOMESTIC WATER TIE-IN DETAIL
M100 NTS



5 RADON VENT PIT DETAIL
M100 NTS



6 STACK CLEANOUT DETAIL
M100 NTS



7 VENT STACK TERMINATION
M100 NTS

PLUMBING FIXTURE SCHEDULE

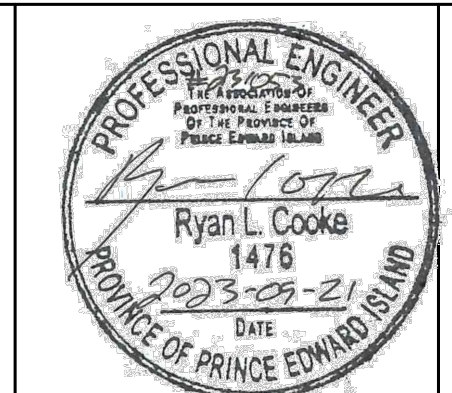
TAG	CONNECTIONS			FIXTURE SPECIFICATIONS				TRIM SPECIFICATIONS				ADDITIONAL NOTES	
	DWV	DCW	DHW	MATERIAL	BASIS OF DESIGN		TYPE	ACTUATION	BASIS OF DESIGN				
WC-1	3"	1/2"	-	FLOOR MOUNTED, BARRIER FREE, ELONGATED BOWL WATER CLOSET, WITH FLUSH TANK	VIT. CHINA	AMERICAN STANDARD	CADET PRO, RIGHT-HIGH ELONGATED	-	-	-	-	-	FLOW LIMITED TO 4.8 LITRES PER FLUSH; OPEN FRONT SEAT. PROVIDE ANGLE SHUTOFF WITH ESCUTCHEON AND FLEX HOSE. FLUSH VALVE TO BE LOCATED ON TRANSFER SIDE AS NOTED.
WC-2	3"	1/2"	-	FLOOR MOUNTED, 10" HIGH ELONGATED BOWL WATER CLOSET, C/W FLUSH TANK	VIT. CHINA	AMERICAN STANDARD	BABY DEVORO FLO-WISE	-	-	-	-	-	FLOW LIMITED TO 4.8 LITRES PER FLUSH; OPEN FRONT SEAT. PROVIDE ANGLE SHUTOFF WITH ESCUTCHEON, FLEX HOSE AND TOILET SEAT. FLUSH VALVE TO BE LOCATED ON TRANSFER SIDE AS NOTED.
S-1	1-1/2"	1/2"	1/2"	SELF-RIMMING, COUNTER MOUNTED RECTANGULAR DOUBLE BASIN SINK	STAINLESS STEEL	AMERICAN STANDARD	COLONY 22DB.63322845.0 75	TWO HANDLES GOOSENECK SPOUT W/ SIDE-SPRAY	MANUAL	AMERICAN STANDARD	COLONY PRO 7074.51	-	COUNTER MOUNT DROP-IN SINK, P-TRAP, UNDER-COUNTER SHUTOFFS WITH ESCUTCHEONS, 2 GPM FLOW LIMITING CARTRIDGE.
S-2	1-1/2"	1/2"	1/2"	SELF-RIMMING, COUNTER MOUNTED RECTANGULAR TRIPLE BASIN SINK	STAINLESS STEEL	FRANKE	LBT8607	DUAL FAUCETS, TWO-HANDLE, 8" GOOSENECK	MANUAL	ADVANCE TABCO	K-50	-	COUNTER MOUNT DROP-IN SINK, P-TRAP, UNDER-COUNTER SHUTOFFS WITH ESCUTCHEONS, 2 GPM FLOW LIMITING CARTRIDGE. PROVIDE TWO (2) FAUCET TRIMS, CENTERED BETWEEN TWO BASINS.
L-1	1-1/4"	1/2"	1/2"	SELF-RIMMING OVAL COUNTER TOP SINK	VIT. CHINA	AMERICAN STANDARD	AQUALYN 0476028.020	HARDWARED, ELECTRONIC FAUCET WITH IR SENSOR	AUTOMATIC, HARDWIRED	DELTA	591T	-	PROVIDE OFFSET DWV PLUMBING WITH INSULATION KIT AND SHROUD, PROVIDE DHW TEMPERING TO 105F WITHIN WALL CONCEALED ACCESS HATCH, 0.5 GPM LIMIT CARTRIDGE. SHUT-OFFS, ESCUTCHEONS, CONCEALED WALL CARRIER, AUTOMATIC FAUCET WITH HARDWIRED TRANSFORMER, PROVIDE CONCEALED CONTROL VALVE.
L-2	1-1/4"	1/2"	1/2"	BARRIER-FREE WALL-HUNG BASIN, FAUCET LEDGE, WITHOUT OVERFLOW	VIT. CHINA	AMERICAN STANDARD	DECLYN	HARDWARED, ELECTRONIC FAUCET WITH IR SENSOR	AUTOMATIC, HARDWIRED	DELTA	591T	-	PROVIDE OFFSET DWV PLUMBING WITH INSULATION KIT AND SHROUD, PROVIDE DHW TEMPERING TO 105F WITHIN WALL CONCEALED ACCESS HATCH, 0.5 GPM LIMIT CARTRIDGE. SHUT-OFFS, ESCUTCHEONS, CONCEALED WALL CARRIER, AUTOMATIC FAUCET WITH HARDWIRED TRANSFORMER, PROVIDE CONCEALED CONTROL VALVE.

PUMP SCHEDULE

TAG	LOCATION	SERVES	TYPE	FLOW (GPM)	HEAD (FT H2O)	POWER TYPE	MOTOR POWER	BASIS OF DESIGN	NOTES
P-1	MECH / ELEC ROOM	DOMESTIC HOT WATER RECIRC.	CENTRIFUGAL CIRCULATOR, BRASS WETTED COMPONENTS	4	10	120/160	1/12	BELL AND GOSSETT NBF-10S/LW	UNIT STARTED FROM PIPE-STRAP TYPE LINE VOLTAGE AQUASTAT, SET TO STOP AT 130F WITH A 20F DIFFERENTIAL.



Suite 201, 85 Fitzroy Street
 Charlottetown, PEI, Canada, C1A 1R6
 Phone (902) 368-2300
 www.colesassociates.com



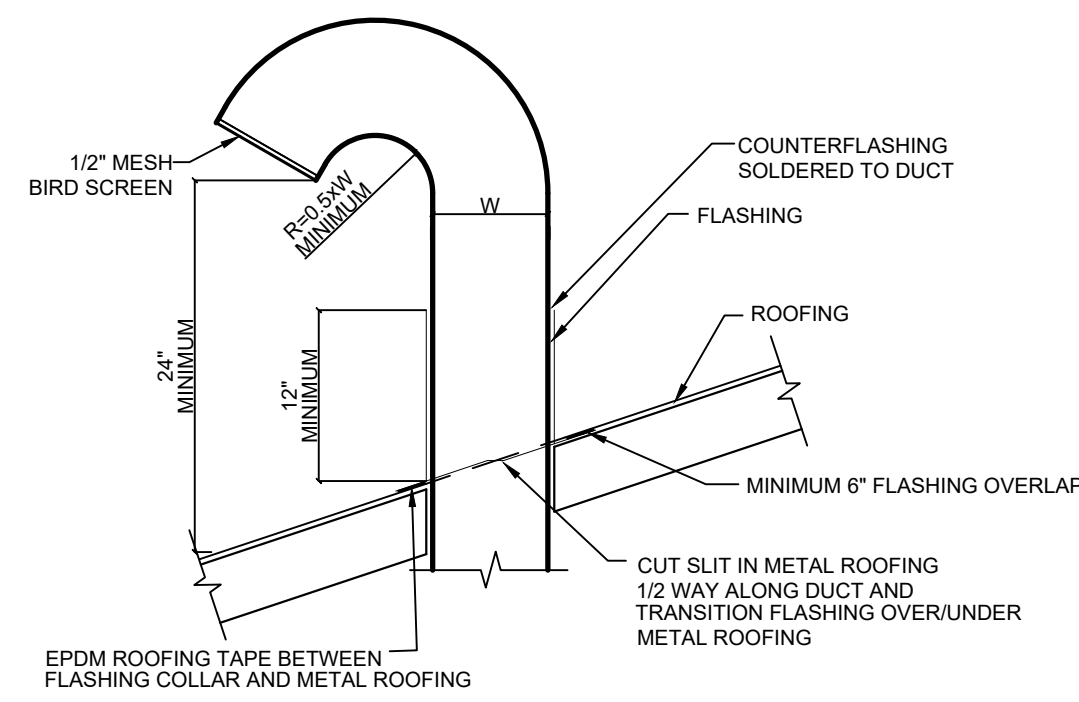
Client
 Rural Municipality of Kinkora

Project Title
 Kinkora Community Hall Expansion

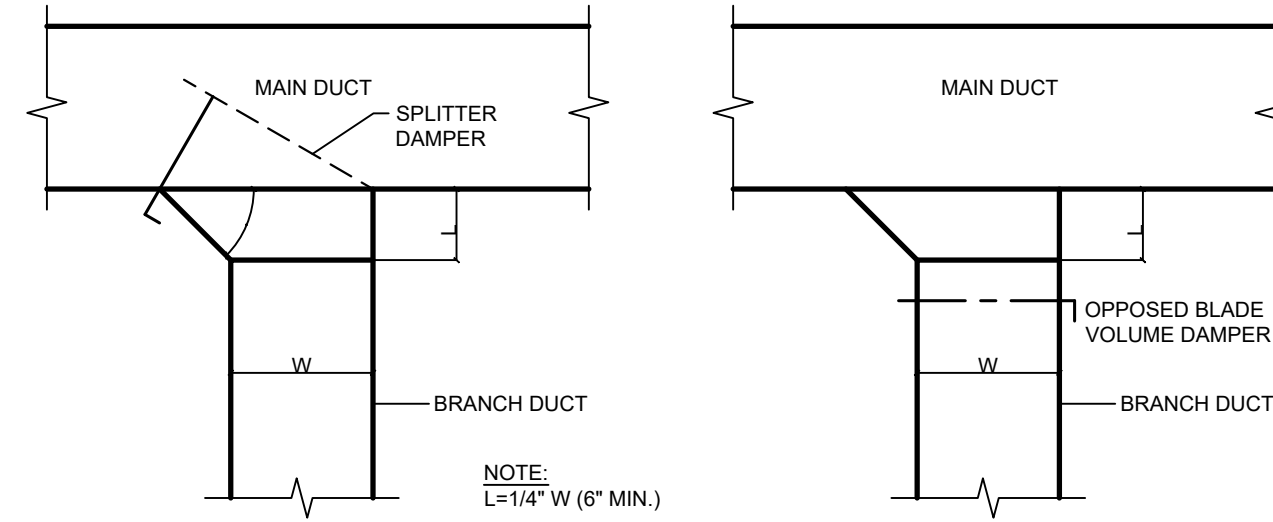
Sheet Title
 Plumbing Plans, Details and Schedules

No.	Description	Date	Date	Revision
1	Issued for Tender	2023-09-21	2023-09-21	1

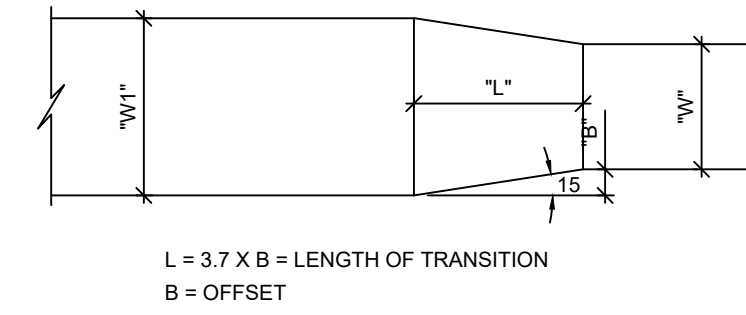
Date: 2023-09-21
 Date: 2023-09-21
 Drn By: N.L.V., E.I.T.
 Chk By: R.L.C., P.Eng.
 Project Number:
231053
 Drawing Number:
M100



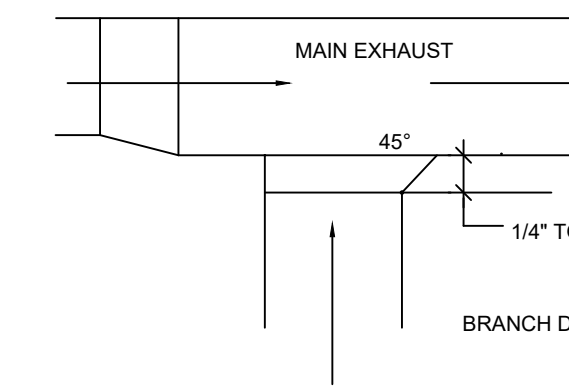
1 GOOSENECK INTAKE THROUGH ROOF
M201 NTS



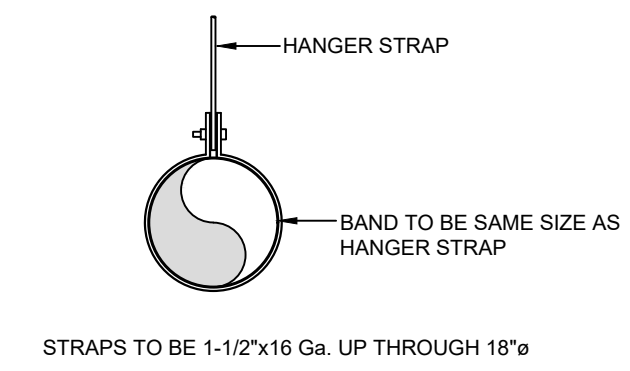
2 BRANCH DUCT TAKEOFF CONFIGURATIONS
M201 NTS



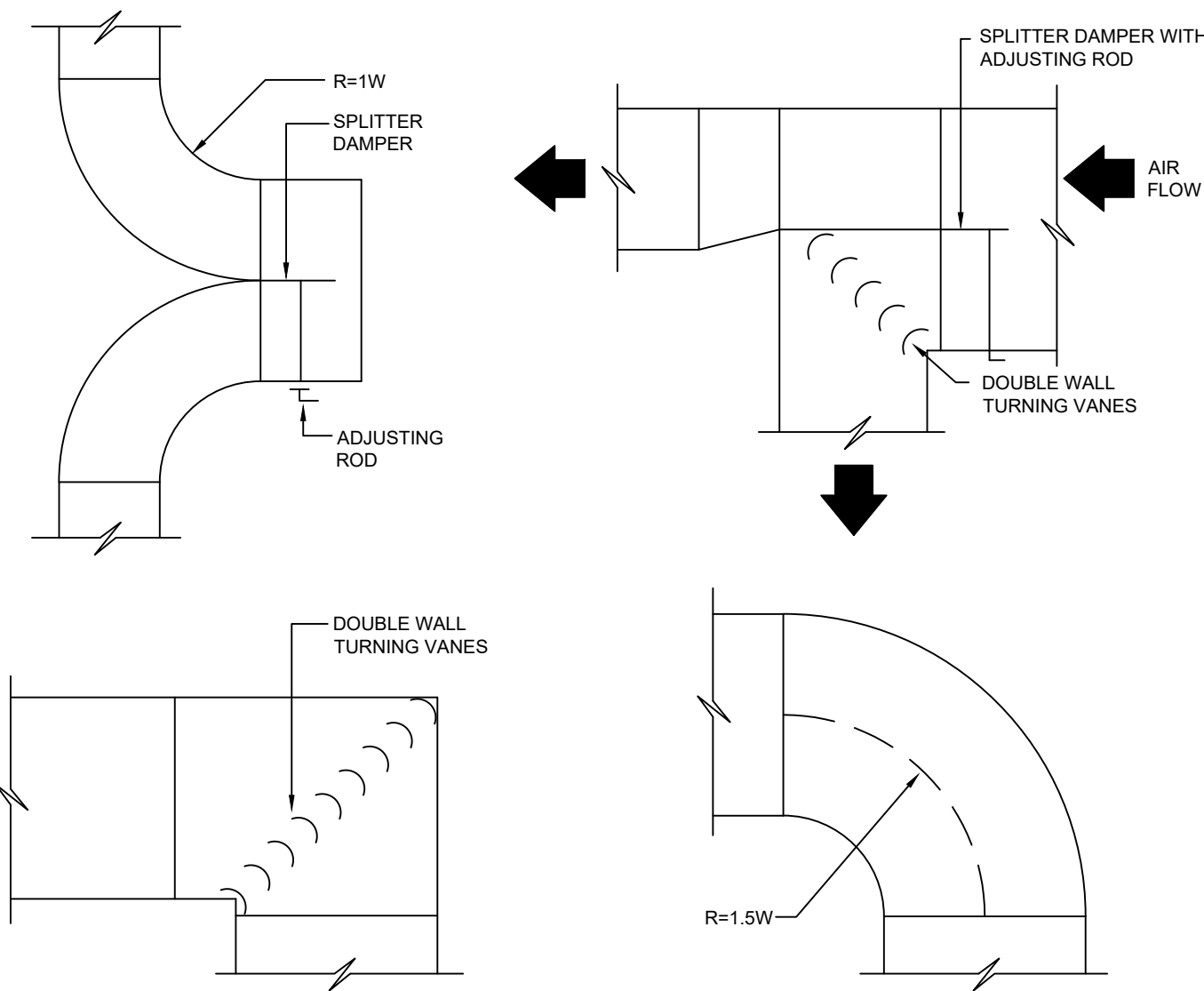
3 DUCT REDUCER GEOMETRY
M201 NTS



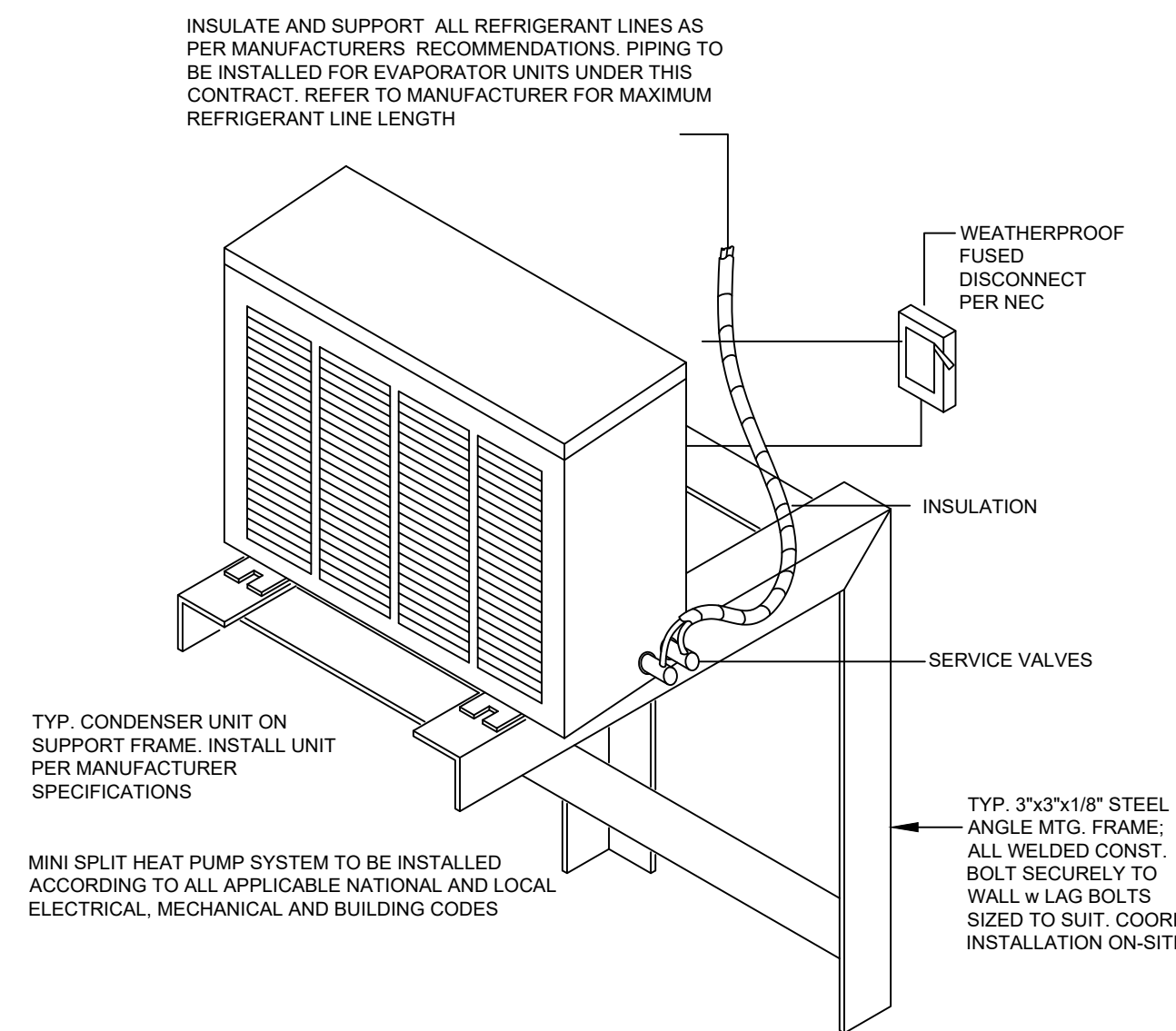
4 CONVERGENT DUCTING
M201 NTS



5 ROUND DUCT SUPPORTS
M201 NTS



6 DUCT TURNS AND DIVERGING FLOW DETAILS
M201 NTS



7 HEAT PUMP OUTDOOR UNIT INSTALLATION DETAIL
M201 NTS

RANGE HOOD SCHEDULE						
TAG	LOCATION	AIRFLOW (CFM)	E.S.P. (IN.W.G.)	ELECTRICAL	FLA	BASIS OF DESIGN
H-1	KITCHEN	250	1.0	120/1/60	2.6	BROAN BWP1364SS

GRILLE AND DIFFUSER SCHEDULE											
TAG	TYPE	MANUFACTURER	MODEL	SIZE (IN x IN)	THROW	MATERIAL OF CONSTRUCTION	NOTES				
S-1	SIDEWALL DOUBLE DEFLECTION GRILLE	AIRVECTOR	GSA2	12" x 8"	19' - 21'	STEEL	0° DEFLECTION, DRYWALL MOUNT.				
S-2	SIDEWALL DOUBLE DEFLECTION GRILLE	AIRVECTOR	GSA2	8" x 6"	14' - 18'	STEEL	0° DEFLECTION, DRYWALL MOUNT.				
S-3	SIDEWALL DOUBLE DEFLECTION GRILLE	AIRVECTOR	GSA2	6" x 6"	13'	STEEL	0° DEFLECTION, DRYWALL MOUNT.				
S-4	4-WAY CEILING DIFFUSER	AIRVECTOR	DF3I	12" x 12"	N/A	STEEL	ACOUSTIC CEILING TILE MOUNT.				
E-1	EGGCRATE GRILLE	AIRVECTOR	ER	12" x 12"	N/A	ALUMINUM	ACOUSTIC CEILING TILE MOUNT, C/W INTEGRATED PLENUM AND OPPOSED BLADE BALANCE DAMPER C/W FACE OPERATED DAMPER ACTUATION.				
E-2	EGGCRATE GRILLE	AIRVECTOR	ER	6" x 6"	N/A	ALUMINUM	SIDEWALL DRYWALL MOUNT, C/W INTEGRATED PLENUM AND OPPOSED BLADE BALANCE DAMPER C/W FACE OPERATED DAMPER ACTUATION.				
R-1	EGGCRATE GRILLE	AIRVECTOR	ER	12" x 12"	N/A	ALUMINUM	SIDEWALL DRYWALL MOUNT.				
R-2	EGGCRATE GRILLE	AIRVECTOR	ER	48" x 24"	N/A	ALUMINUM	ACOUSTIC CEILING TILE MOUNT.				
R-3	SIDEWALL RETURN GRILLE	AIRVECTOR	GSA40	24" x 24"	N/A	STEEL	DRYWALL MOUNT, LOW-WALL RETURN GRILLE, FIXED 45° BLADES HORIZONTAL BLADES.				
DG-1	FIRE RATED DOOR GRILLE WITH FUSIBLE LINK	NAILOR	81DG-FR	24" x 24"	N/A	STEEL	DOOR GRILLE WITH ADJUSTABLE TRIM FOR DOOR THICKNESS, PARALLEL BLADE DAMPER TYPE WITH EXTERNAL OPERATOR, INTEGRAL FUSIBLE LINK, FIRE RATED STEEL CONSTRUCTION.				

ENERGY RECOVERY VENTILATOR SCHEDULE																
TAG	LOCATION	AIR SIDE			ELECTRICAL			HEATING MODE EFFECTIVENESS			DIMENSIONS			BASIS OF DESIGN	NOTES	
		AIRFLOW (CFM)	ESP (IN.W.G.)	UNIT MCA	UNIT MOCAP	POWER TYPE	OA (°F)	RA (°F)	FA (°F)	% EFF. (TOTAL)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)			WEIGHT (KG)
HRV-1	MECH/ELEC. ROOM	1100	0.75	14.25	15	120/1/60	-7.6	71.6	34.4	53%	36	52	22	109	FANTECH SHR1200	GRAVITY BACKDRAFT DAMPERS ON BOTH AIRSTREAMS. TIMER DEFROST CONTROL. FACTORY MOUNTED DISCONNECT SWITCH, MERV 8 FILTERS BOTH AIRSTREAMS.

ELECTRIC HEATING COIL SCHEDULE											
TAG	LOCATION	MAKE / MODEL	HEATING CAPACITY (kW)	AIRSIDE			DUCT DIMENSIONS			POWER TYPE	NOTES
				AIRFLOW (CFM)	EAT (°F)	LAT (°F)	WIDTH (IN)	HEIGHT (IN)			
HC-1	HRV-1 SUPPLY AIR DUCT	STELPRO SDHF	10.7	1100	34.4	65.0	20"	10"	240/1/60	MODULATING SCR CONTROLLER MAINTAINING 60°F SUPPLY TEMPERATURE. SUPPLY DUCT TEMPERATURE SENSOR, AIR-PROVING SWITCH.	
HC-2	IU-1 SUPPLY AIR DUCT	SUPPLIED WITH IU-1	15	1300	65	101.3	24"	12"	240/1/60	SINGLE-STAGE LOW VOLTAGE CONTROL. SCR DISCHARGE AIR TEMPERATURE CONTROLLER, AIR-PROVING SWITCH. TO BE WIRED TO SECOND STAGE HEATING CONTACT FROM IU-1 THERMOSTAT.	
HC-3	IU-2 SUPPLY AIR DUCT	SUPPLIED WITH IU-2	15	1300	65	101.3	24"	12"	240/1/60	SINGLE-STAGE LOW VOLTAGE CONTROL. SCR DISCHARGE AIR TEMPERATURE CONTROLLER, AIR-PROVING SWITCH. TO BE WIRED TO SECOND STAGE HEATING CONTACT FROM IU-1 THERMOSTAT.	

SPLIT SYSTEM AIR HANDLER HEAT PUMP SCHEDULE										
TAG	TYPE	LOCATION	REFRIG.	HEATING CAP. (MBH)	COOLING CAP. (MBH)	POWER TYPE	FLA	MOCAP	BASIS OF DESIGN	NOTES
OU-1	HEAT PUMP CONDENSING UNIT	OUTDOORS	R410A	57.5	57.0	230/1/60	29.1	35	DAIKIN RXTQ60BVJUA	C/W DRAIN PAN HEATER. LOW-AMBIENT WIND Baffle, KP5063A41 SIDE SNOW HOOD, KP5067A42 REAR SNOW HOOD. PROVIDE GROUND MOUNT STAND AND SNOWICE SHROUD OVER TOP OF UNIT. ABLE CANVAS OR EQUAL.
IU-1	INDOOR AIR HANDLER UNIT	MECH/ELEC ROOM	R410A	60	60	230/1/60	8.6	15.0	DAIKIN FXTQ60TAVJUA	C/W HARD-WIRED THERMOSTAT BRC1E73 OR EQUAL, LOW VOLTAGE RELAY.

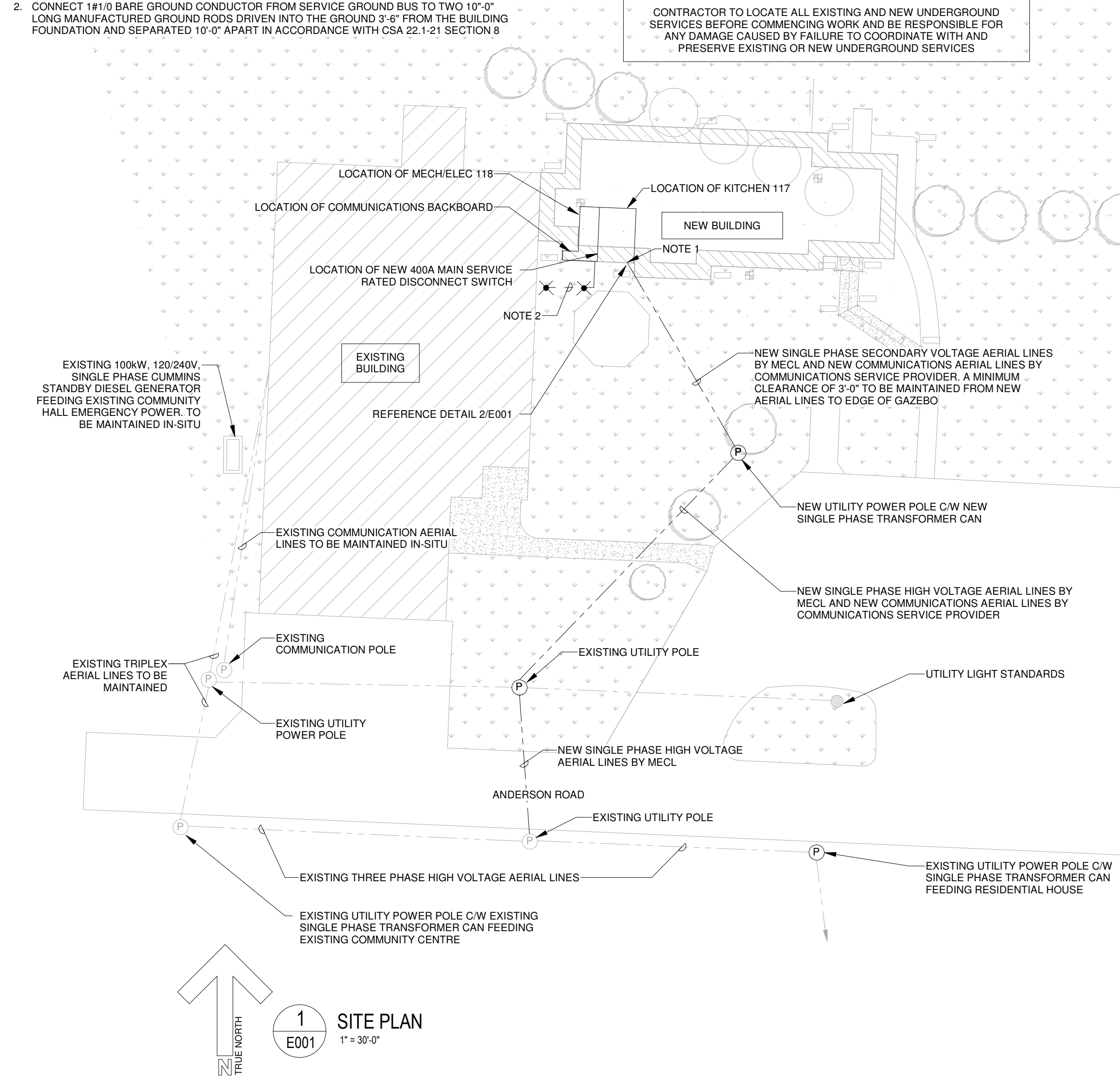
SPLIT SYSTEM AIR HANDLER HEAT PUMP SCHEDULE										
TAG	TYPE	LOCATION	REFRIG.	HEATING CAP. (MBH)	COOLING CAP. (MBH)	POWER TYPE	FLA	MOCAP	BASIS OF DESIGN	NOTES
OU-2	HEAT PUMP CONDENSING UNIT	OUTDOORS	R410A	57.5	57.0	230/1/60	29.1	35	DAIKIN RXTQ60BVJUA	C/W DRAIN PAN HEATER. LOW-AMBIENT WIND Baffle, KP5063A41 SIDE SNOW HOOD, KP5067A42 REAR SNOW HOOD. PROVIDE GROUND MOUNT STAND AND SNOWICE SHROUD OVER TOP OF UNIT. ABLE CANVAS OR EQUAL.
IU-2	INDOOR AIR HANDLER UNIT	MECH/ELEC ROOM	R410A	60	60	230/1/60	0.3	15.0	DAIKIN FXTQ60TAVJUA	C/W HARD-WIRED THERMOSTAT BRC1E73 OR EQUAL, LOW VOLTAGE RELAY.

ELECTRIC HEATER SCHEDULE									
TAG	TYPE	LOCATION	OUTPUT (W)	LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	POWER TYPE	BASIS OF DESIGN	NOTES
BB-1	ELECTRIC BASEBOARD	LAUNDRY ROOM 104	750	38"	6"	2-1/2"	240/1/60	STELPRO BRAVA B0752	C/W WALL MOUNT LINE VOLTAGE THERMOSTAT
BB-2	ELECTRIC BASEBOARD	STAFF ROOM 109	500	28"	6"	2-1/2"	240/1/60	STELPRO BRAVA B0502	C/W WALL MOUNT LINE VOLTAGE THERMOSTAT
BB-3	ELECTRIC BASEBOARD	MANAGER OFFICE 110	500	28"	6"	2-1/2"	240/1/60	STELPRO BRAVA B0502	C/W WALL MOUNT LINE VOLTAGE THERMOSTAT
WF-1	WALL FAN HEATER	VESTIBULE 101	500	8-1/2"	17"	3-1/4"	240/1/60	STELPRO PULSAIR RWF0502	C/W LOW-VOLTAGE CONTROL RELAY. PROVIDE 15C RANGE STOP ON THERMOSTAT. INSTALL FOR DOWN FLOW, HIGH ON WALL.
WF-2	WALL FAN HEATER	VESTIBULE 100	500	8-1/2"	17"	3-1/4"	240/1/60	STELPRO PULSAIR RWF0502	C/W LOW-VOLTAGE CONTROL RELAY. PROVIDE 15C RANGE STOP ON THERMOSTAT. INSTALL FOR DOWN FLOW, HIGH ON WALL.

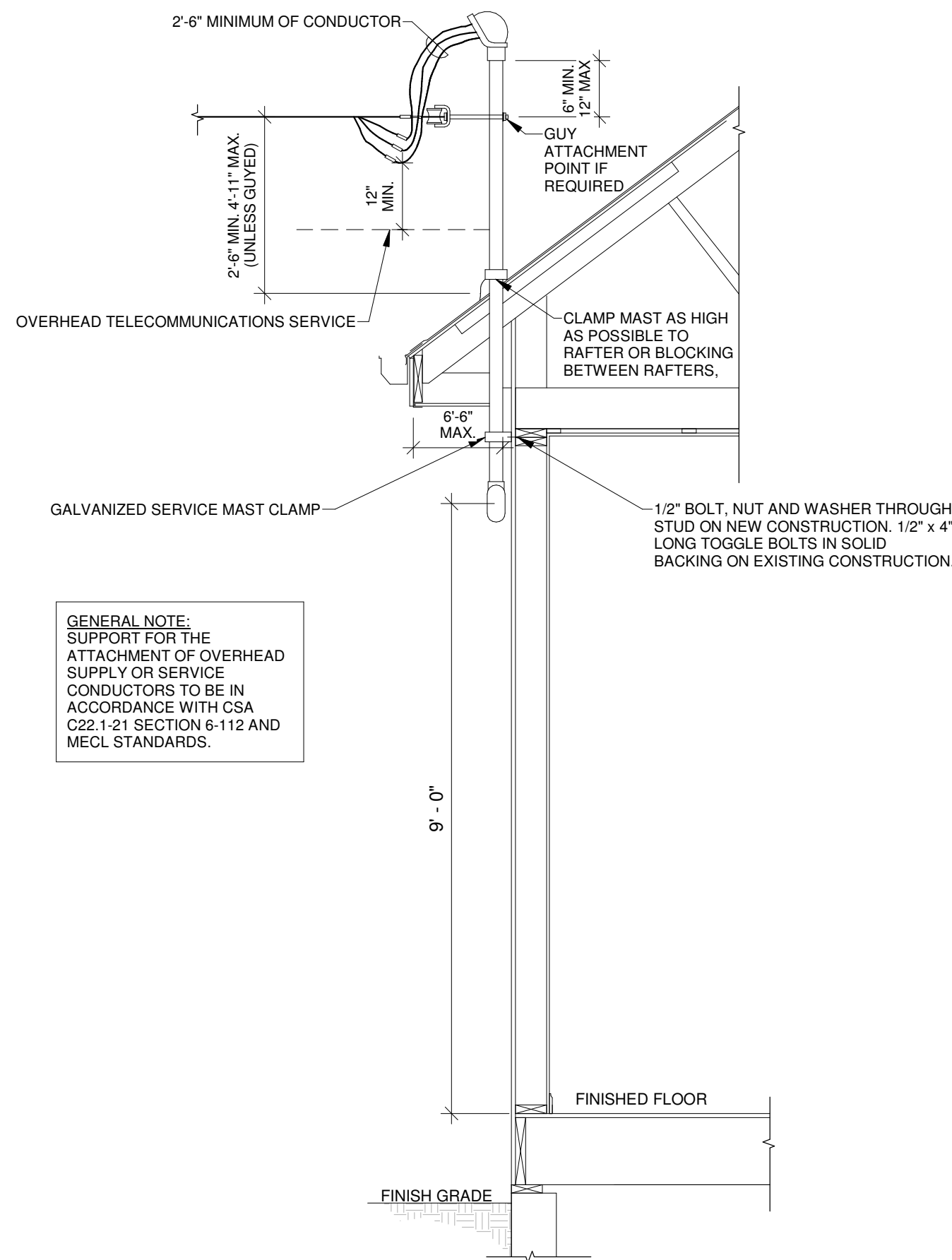
NOTES:

1. LOCATION OF NEW POWER AND COMMUNICATIONS SERVICE MAST. CONTRACTOR TO ROUTE CONDUITS FROM POWER AND COMMUNICATIONS SERVICE MAST DOWNWARDS SURFACE MOUNTED TO EXTERIOR FACADE AND THEN STUB INTO THE ATTIC SPACE OF KITCHEN 117. COORDINATE EXACT LOCATION OF POWER AND COMMUNICATIONS SERVICE MAST WITH MECL AND COMMUNICATIONS SERVICE PROVIDER ON SITE PRIOR TO ROUGH IN.
2. CONNECT 1#10 BARE GROUND CONDUCTOR FROM SERVICE GROUND BUS TO TWO 10" Ø" LONG MANUFACTURED GROUND RODS DRIVEN INTO THE GROUND 3'-6" FROM THE BUILDING FOUNDATION AND SEPARATED 10'-0" APART IN ACCORDANCE WITH CSA 22.1-21 SECTION 8

CONTRACTOR TO LOCATE ALL EXISTING AND NEW UNDERGROUND SERVICES BEFORE COMMENCING WORK AND BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO COORDINATE WITH AND PRESERVE EXISTING OR NEW UNDERGROUND SERVICES



1 SITE PLAN
E001
1" = 30'-0"



GENERAL NOTE: SUPPORT FOR THE ATTACHMENT OF OVERHEAD SUPPLY OR SERVICE CONDUCTORS TO BE IN ACCORDANCE WITH CSA C22.1-21 SECTION 8-112 AND MECL STANDARDS.

2 SERVICE MAST EXTENDED THROUGH ROOF
E001
1/2" = 1'-0"

GENERAL LEGEND

	INDICATES FIRE RATED WALL REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC LOCATIONS AND CONSTRUCTION INFORMATION
	LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
	HEAVY LINEWEIGHT INDICATES NEW WORK
	AERIAL SERVICE LINES
	UNDERGROUND WIRING
	SURFACE MOUNTED WIRING
	INDICATES 2#12 DC WIRING
	LOW VOLTAGE WIRING
	WIRING UP
	WIRING DOWN
	CONDUIT STUB
	GROUND ELECTRODE
A1-22a	INDICATES CIRCUIT #22 IN PANEL 'A1' a- INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS
GENERAL SUB SCRIPTS	
3R -	CSA 3R ENCLOSURE
A -	DEVICE MOUNTED 4" AFF OR 6" ABOVE COUNTER OR 9" ABOVE COUNTER WITH BACKSPASH
CW -	MOUNTED IN CASEWORK
N -	DEVICE MOUNTED 6" ABOVE FINISH FLOOR

LIGHTING LEGEND

	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
	LUMINAIRE, SURFACE MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE SHADED - INDICATES CONNECTED TO UNSWITCHED SIDE OF CIRCUIT (NIGHT LIGHTING)
	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
	LUMINAIRE, WALL MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
	LUMINAIRE, CEILING MOUNTED # - INDICATES TYPE IN LUMINAIRE SCHEDULE
	EXIT SIGN: CEILING MOUNTED SHADING - INDICATES NUMBER AND LOCATION OF FACES ARROW - INDICATES DIRECTION OF EXIT
	EXIT SIGN: WALL MOUNTED SHADING - INDICATES NUMBER AND LOCATION OF FACES ARROW - INDICATES DIRECTION OF EXIT
	DUAL HEAD EMERGENCY LIGHTING UNIT
	REMOTE DUAL HEAD EMERGENCY LIGHTING UNIT
	REMOTE SINGLE HEAD EMERGENCY LIGHTING UNIT
	SINGLE POLE SWITCH # - INDICATES SUBSCRIPT
SWITCH SUB SCRIPTS	
3 -	THREE-WAY SWITCH
L -	0-10VDC LINE VOLTAGE DIMMER SWITCH
a -	LUMINAIRE SWITCHING
	PIR OCCUPANCY SENSOR WALL SWITCH
	DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, CEILING MOUNTED
	PHOTOCELL
	TIME CLOCK
	LIGHTING CONTACTOR

POWER LEGEND

	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
RECEPTACLE SUB SCRIPTS	
20 -	CSA TYPE L5-20R (DATA RACK)
30 -	TYPE 14-30R
50 -	CSA TYPE 14-50R
G -	GFCI RECEPTACLE
WP -	RECEPTACLE GFCI C/W WEATHER PROOF WHILE IN-USE COVER
	SINGLE PHASE MOTOR
	FUSED DISCONNECT SWITCH XX - INDICATES SWITCH RATING F-XX - INDICATES FUSE SIZE
	UNFUSED DISCONNECT SWITCH XX - INDICATES SWITCH RATING
	DIRECT CONNECTION
	MANUAL MOTOR SWITCH
	ELECTRICAL PANEL, SURFACE MOUNTED 'DPA' - INDICATES PANEL DESIGNATION
	ELECTRICAL PANEL, RECESSED MOUNTED 'A1' - INDICATES PANEL DESIGNATION
	WALL FAN HEATER, SUPPLIED AND INSTALLED BY DIV. 23 AND WIRED BY DIV. 26
	ELECTRIC BASEBOARD HEATER, SUPPLIED AND INSTALLED BY DIV. 23 AND WIRED BY DIV. 26
	UTILITY SERVICE POLE
	UTILITY METER
	LINE VOLTAGE THERMOSTAT, SUPPLIED AND INSTALLED BY DIV. 23 AND WIRED BY DIV. 26.

SYSTEMS LEGEND

	DATA OUTLET-MOUNTED IN ACCESSIBLE CEILING SPACE ADJACENT TO WIRELESS ROUTER, WIRELESS ROUTER SUPPLIED AND INSTALLED BY OWNER.
	DATA AND TELEPHONE OUTLET FIRST NUMBER INDICATES QUANTITY OF RJ45 MODULE FOR TELEPHONE, SECOND NUMBER INDICATES QUANTITY OF RJ45 MODULES FOR DATA, TELEPHONE AND DATA TO SHARE COMMON FACEPLATE.
	WALL MOUNTED COMMUNICATIONS DATA RACK
	COMMUNICATIONS BACKBOARD

INTRUSION & ACCESS CONTROL LEGEND

	POWER ASSISTED DOOR PUSH BUTTON, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
	POWER ASSISTED DOOR OPENER, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
	ACCESS CONTROL PROXIMITY CARD READER
	ELECTRIC STRIKE, SUPPLIED AND INSTALLED BY DIV. 8, WIRED BY DIV. 28.
	ACCESS CONTROL DOOR CONTROL PANEL

FIRE ALARM LEGEND

	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	FIRE ALARM SPOT TYPE FIRE DETECTOR # - INDICATES SUBSCRIPT
DETECTOR SUB SCRIPTS	
M -	MULTISENSOR SMOKE DETECTOR
RF -	FIXED TYPE THERMAL DETECTOR
	FIRE ALARM COMBINATION HORN STROBE



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

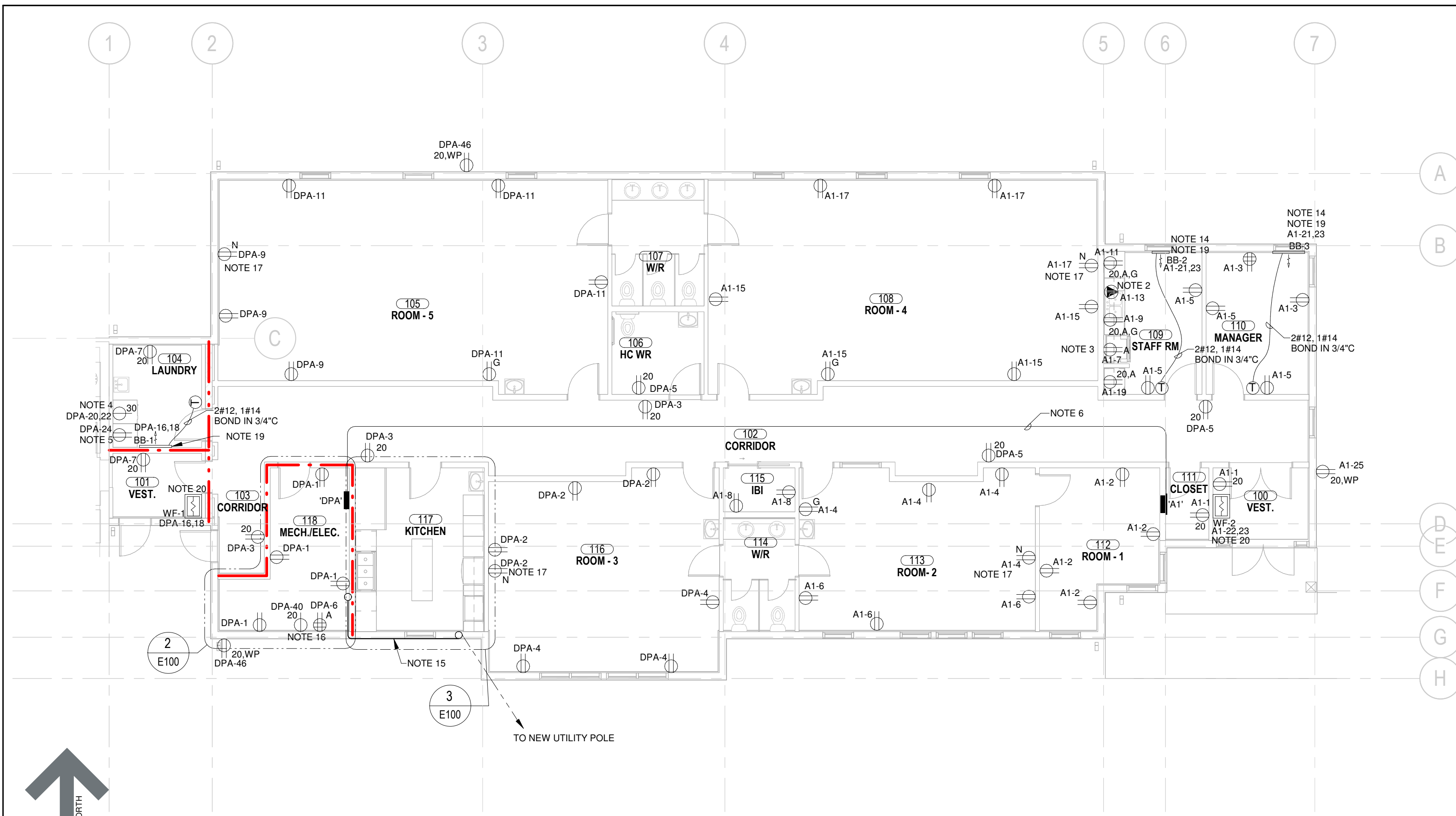


Client
Rural Municipality of Kinkora

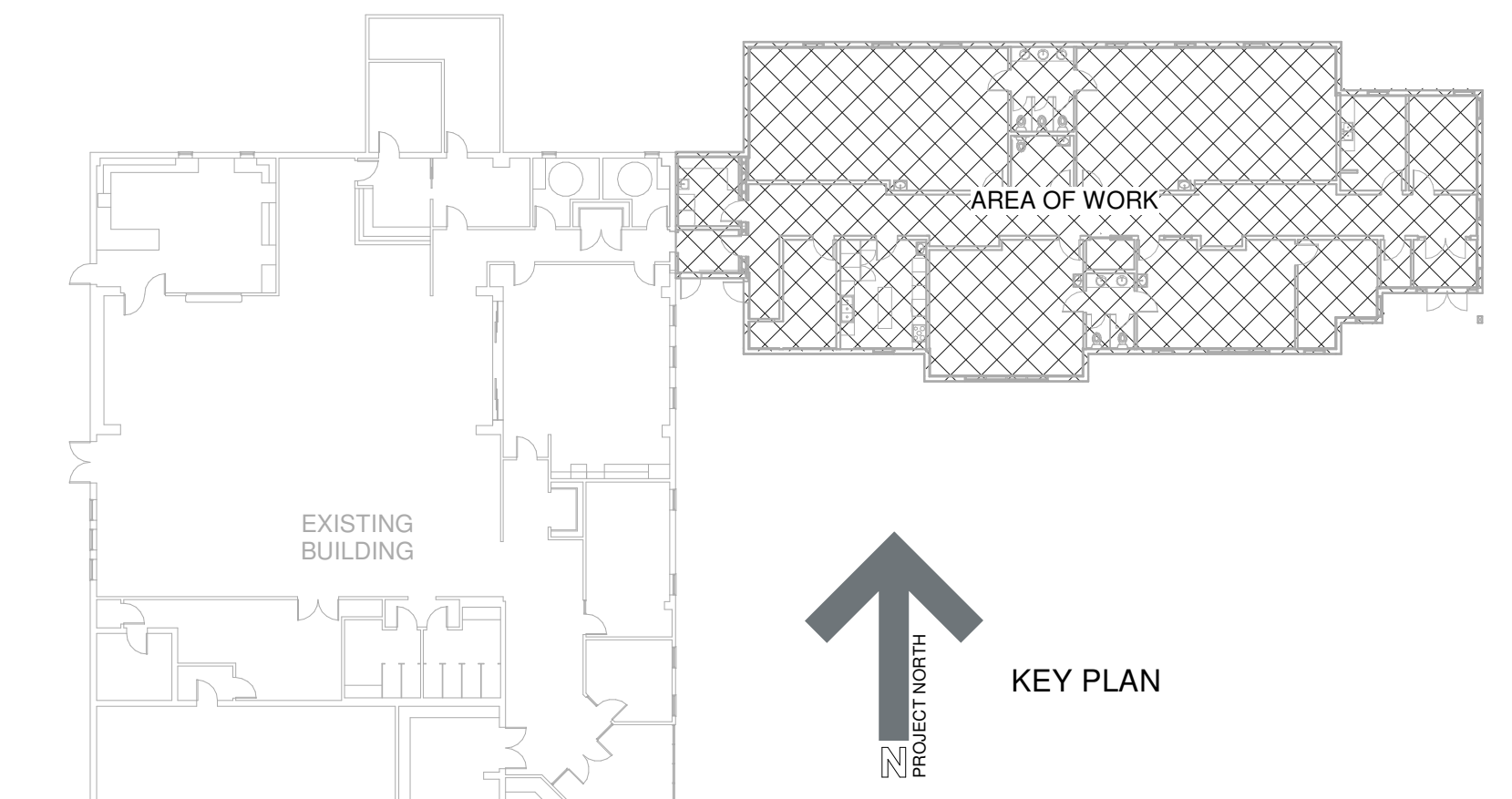
Project Title
Kinkora Community Hall Expansion

Sheet Title
Site Plan, Legend & Details

No.	Description	Date	Date: 2023-09-21	Revision
0	Issued for Tender	2023-09-21	Drn By: C.L.S., C.E.T./E.A., E.I.T. Chk By: E.S.C., P.ENG	0
Project Number:			231053	
Drawing Number:			E001	



1 MAIN FLOOR PLAN - POWER
1/8" = 1'-0"



KEY PLAN

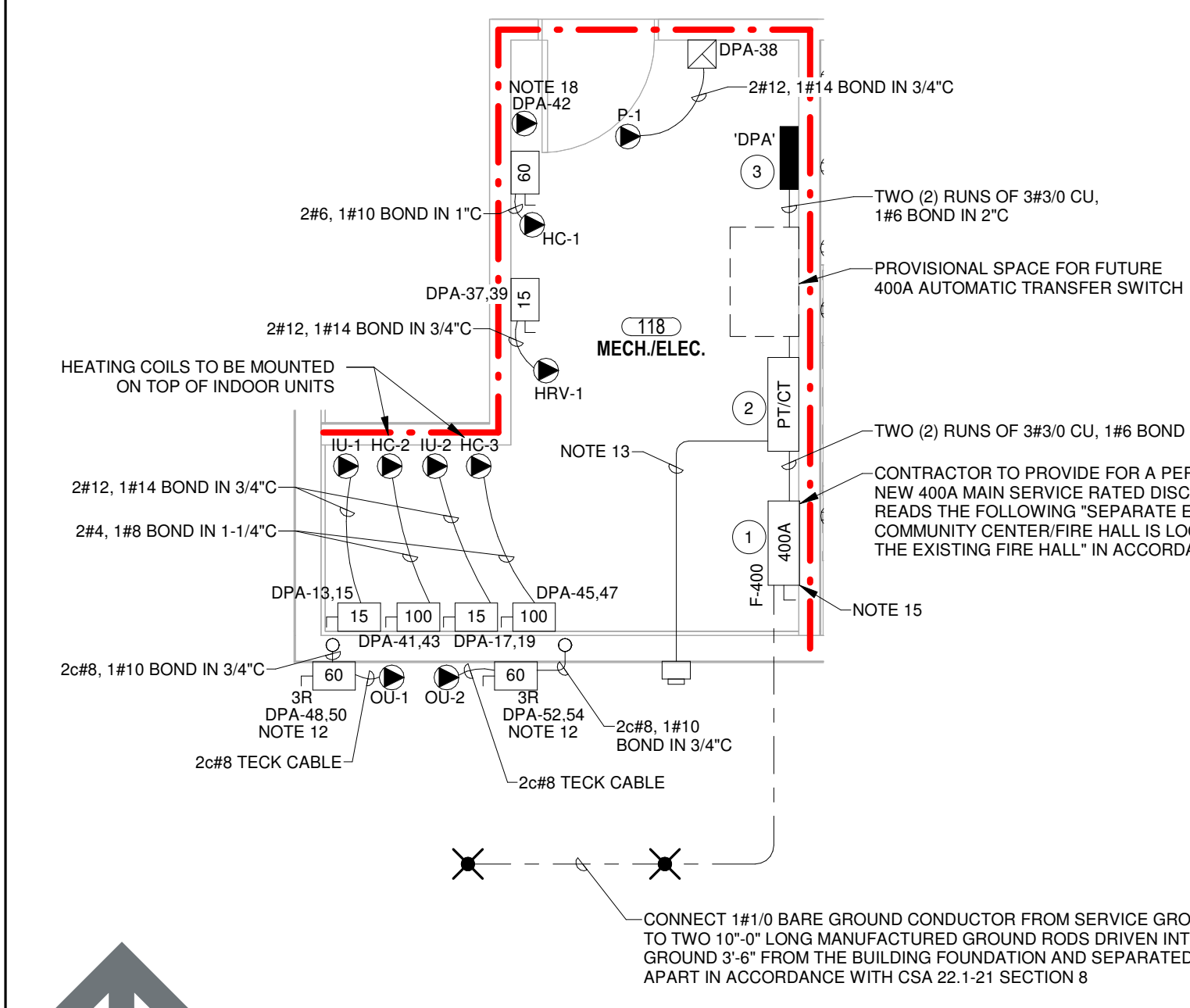
LOCATION OF EXISTING ELECTRICAL ENTRANCE OF THE EXISTING COMMUNITY CENTRE FIRE HALL. CONTRACTOR TO PROVIDE FOR A PERMANENT SIGNAGE LOCATED ABOVE THE EXISTING 400A MAIN SERVICE RATED DISCONNECT SWITCH LOCATED WITHIN THE ELECTRICAL CABINET IN THE EXISTING FIRE HALL THAT READS THE FOLLOWING: "SEPARATE ELECTRICAL ENTRANCE OF THE ADDITION IS LOCATED WITHIN MECH/ELEC ROOM 118 OF THE NEW ADDITION" IN ACCORDANCE WITH CSA 22.1-21 ARTICLE 6-102 (3).

GENERAL NOTES

- GAUGE OF BRANCH CIRCUIT WIRING TO BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% IN ACCORDANCE WITH CSA 22.1-21 SECTION 8.
- CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY GENERAL CONTRACTOR SO THAT THE FIRE RATING OF THE SEPARATION IS MAINTAINED. ACCEPTABLE MANUFACTURER OR APPROVED EQUAL: 3M BRAND FIRE BARRIER. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED ASSEMBLY LOCATIONS.
- EXPOSED ELECTRICAL CONDUIT BOXES AND SUPPORTS IN FINISHED AREAS ARE TO BE PAINTED THE COLOUR OF ADJACENT FINISHED SURFACE. COORDINATE EXACT COLOUR AND ASSOCIATED PAINTING WITH GENERAL CONTRACTOR ON SITE.
- ALL CONTROL WIRING FOR HEATERS AND ASSOCIATED THERMOSTATS TO BE SUPPLIED AND COMPLETED BY OTHERS. ALL POWER WIRING TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL CSA TYPE 5-15R AND 5-20R RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE EXCEPT WHERE THEY ARE INACCESSIBLE OR MORE THAN 6'-0" AFF IN ACCORDANCE WITH CSA 22.1-21 ARTICLE 26-706.
- REFER TO MECHANICAL AND ELECTRIC HEATING SCHEDULES ON DRAWING E300 FOR ADDITIONAL INFORMATION ON MECHANICAL AND ELECTRIC HEATING SYSTEMS.
- ALL BRANCH CIRCUIT WIRING TO BE ROUTED FROM PANELBOARDS TO ASSOCIATED WIRING DEVICES AND ELECTRICAL EQUIPMENT THROUGH THE ATTIC SPACE AND THEN DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL CAVITY. COORDINATE EXACT ROUTING WITH GENERAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.

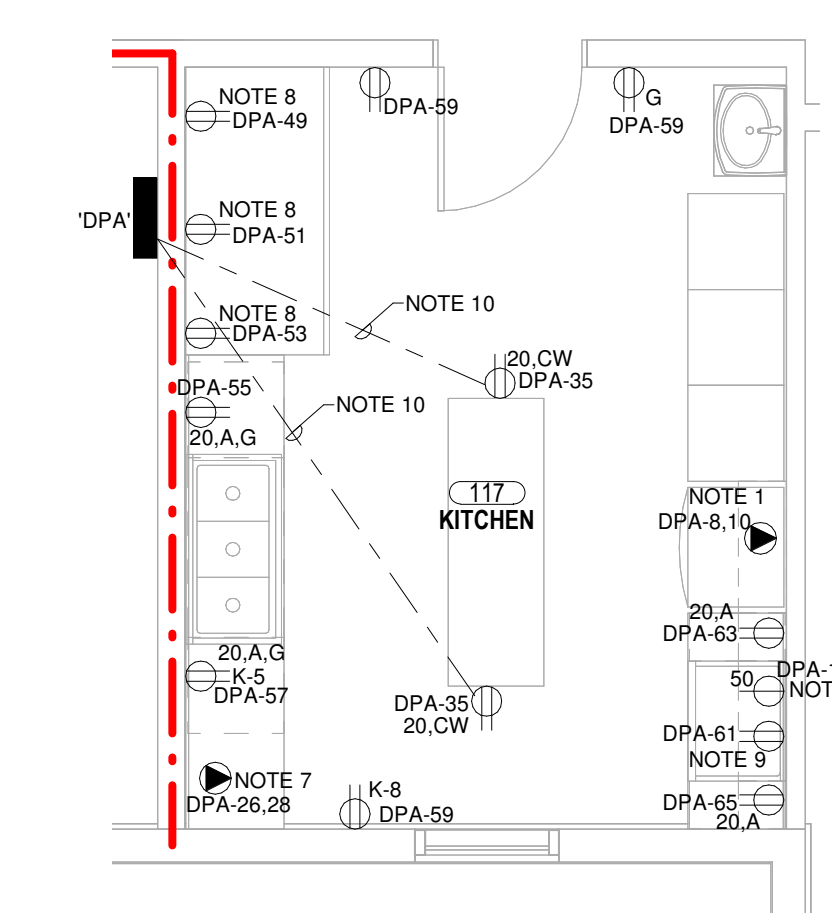
NOTES

- CONTRACTOR TO WIRE OWNER SUPPLIED WALL OVEN WITH 2c#8 AC90 CABLE ROUTED THROUGH THE CEILING SPACE OF KITCHEN 117 AND THEN DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL CAVITY. CONFIRM EXACT POWER REQUIREMENTS AND EXACT LOCATION OF WALL OVEN WITH OWNER ON SITE PRIOR TO ROUGH-IN.
- WIRE OWNER SUPPLIED DISHWASHER WITH 2c#12 AC90 RATED THROUGH CEILING SPACE THEN DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL. COORDINATE EXACT POWER REQUIREMENTS AND EXACT LOCATION OF DISHWASHER PRIOR TO ROUGH-IN.
- DUPLEX RECEPTACLE DEDICATED FOR OWNER SUPPLIED REFRIGERATOR. COORDINATE EXACT LOCATION WITH OWNER ON SITE PRIOR TO ROUGH-IN.
- CSA 14-30R RECEPTACLE DEDICATED FOR DRYER. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR AND OWNER ON SITE PRIOR TO ROUGH-IN.
- DUPLEX RECEPTACLE DEDICATED FOR WASHING MACHINE. COORDINATE EXACT LOCATION WITH GENERAL CONTRACTOR AND OWNER ON SITE PRIOR TO ROUGH-IN.
- WIRE PANELBOARD 'A1' LOCATED IN CLOSET 111 WITH 3#6, 1#10 BOND IN 1" ROUTED THROUGH THE ACCESSIBLE CEILING SPACE OF CORRIDOR 102 TO A 60A/2P CIRCUIT BREAKER OF DISTRIBUTION PANELBOARD 'DPA' LOCATED IN MECH/ELEC 118. COORDINATE EXACT LOCATION AND ROUTING OF CONDUIT ON SITE PRIOR TO ROUGH-IN.
- WIRE OWNER SUPPLIED DISHWASHER WITH 2c#10 AC90 RATED THROUGH THE CEILING SPACE AND THEN DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL CAVITY. COORDINATE EXACT POWER REQUIREMENTS AND EXACT LOCATION OF DISHWASHER WITH MECHANICAL CONTRACTOR AND OWNER ON SITE PRIOR TO ROUGH-IN.
- DUPLEX RECEPTACLE DEDICATED FOR OWNER SUPPLIED FREEZER/COOLER. COORDINATE EXACT POWER REQUIREMENTS AND EXACT LOCATION OF FREEZER/COOLER WITH OWNER ON SITE PRIOR TO ROUGH-IN.
- DUPLEX RECEPTACLE DEDICATED FOR RANGE HOOD MOUNTED AT 5'-0" AFF. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF DUPLEX RECEPTACLE WITH LOCATION OF ELECTRICAL BOX OF RANGE HOOD AND OWNER ON SITE PRIOR TO ROUGH-IN.
- WIRE 20A RECEPTACLE RECESS MOUNTED IN KITCHEN ISLAND WITH 2#12, 1#14 BOND IN 1" PVC CONDUIT ROUTED 12" BELOW CONCRETE SLAB SUBBED WITHIN MILLWORK AND THEN TRANSITION TO 2c#12 AC90 CABLE. COORDINATE EXACT LOCATION AND INSTALLATION WITH GENERAL CONTRACTOR, CONCRETE SLAB INSTALLER AND MILLWORK INSTALLER ON SITE PRIOR TO ROUGH-IN.
- 50A CSA 14-50R RECEPTACLE DEDICATED FOR OWNER SUPPLIED RANGE. COORDINATE EXACT POWER REQUIREMENTS AND LOCATION WITH GENERAL CONTRACTOR AND OWNER ON SITE PRIOR TO ROUGH-IN.
- LOCATE CSA TYPE 3R UNFUSED DISCONNECT SWITCH ADJACENT TO CONDENSING UNIT. ROUTE TECK CABLES TO CSA TYPE 3R UNFUSED DISCONNECT SWITCH AND ADJACENT TO MECHANICAL LINES. ALL CONTROL CABLES BETWEEN INDOOR AND OUTDOOR UNIT TO BE SUPPLIED AND INSTALLED BY DIV. 23. COORDINATE EXACT LOCATION OF CSA TYPE 3R UNFUSED DISCONNECT SWITCH, CONDENSING UNIT AND INTERIOR HEAT PUMP ON SITE PRIOR TO ROUGH-IN. SEAL EXTERIOR PENETRATIONS WITH LOW VOC MASTIC COMPOUND.
- 1.5" EC C/W PULL CORD PENETRATING THROUGH THE EXTERIOR FAÇADE TO UTILITY METER. COORDINATE EXACT LOCATION OF UTILITY METER WITH MECL ON SITE PRIOR TO ROUGH-IN.
- WIRE ELECTRIC BASEBOARD HEATER WITH 2c#12 AC90 CABLE ROUTED HORIZONTALLY UNDERNEATH WINDOW AND THEN UPWARDS THROUGH INTERIOR OF GYPSUM WALL CAVITY. COORDINATE EXACT LOCATION AND CABLE ROUTING WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- TWO (2) RUNS OF 3c#9 CU IN 4" C ROUTED DOWNWARDS FROM NEW POWER SERVICE MAST AND THEN RUNS HORIZONTALLY AT 9'-0" ABOVE MAIN FINISHED FLOOR LEVEL ON THE EXTERIOR FAÇADE OF THE BUILDING. CONDUIT IS THEN TO SUB THROUGH THE SIDE WALL INTO THE CEILING SPACE OF MECH/ELEC 118 THROUGH AN LB ELBOW TO WIRE 400A MAIN SERVICE RATED DISCONNECT SWITCH. COORDINATE EXACT CONDUIT ROUTING AND INSTALLATION ON SITE PRIOR TO ROUGH-IN. PROVIDE FOR PAINTING OF EXTERIOR CONDUIT ROUTED ALONG THE EXTERIOR FAÇADE TO MATCH THE COLOR OF THE ADJACENT SURFACE.
- SUPPLY AND INSTALL 20A 1.5-20R RECEPTACLE RECESS MOUNTED IN GYPSUM WALL ADJACENT TO WALL MOUNTED DATA RACK. COORDINATE EXACT LOCATION OF RECEPTACLE WITH DATA RACK LAYOUT ON SITE PRIOR TO ROUGH-IN.
- RECEPTACLE TO BE LOCATED IN A 3-GANG RECESS MOUNTED WALL BOX. WIRE RECEPTACLE WITH 2#12, 1#14 BOND IN 1/2" C ROUTED UP THROUGH INTERIOR OF GYPSUM WALL CAVITY INTO THE CEILING SPACE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
- WIRE TRAP SEAL PRIMER WITH 2#12, 1#14 BOND IN 1/2" C. COORDINATE EXACT LOCATION OF TRAP SEAL PRIMER WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- WIRE ELECTRIC BASEBOARD HEATER THROUGH LINE VOLTAGE THERMOSTAT WITH 2#12, 1#14 BOND IN 1/2" C. ELECTRIC BASEBOARD HEATER AND LINE VOLTAGE THERMOSTAT TO BE SUPPLIED AND INSTALLED BY DIV. 23 AND WIRED BY DIV. 26. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- WIRE WALL FAN HEATER WITH 2#12, 1#14 BOND IN 1/2" C ROUTED THROUGH THE ATTIC SPACE AND THEN DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL. WALL FAN HEATER TO BE SUPPLIED AND INSTALLED BY DIV. 23 AND WIRED BY DIV. 26. ALL CONTROLS WIRING TO LOW VOLTAGE THERMOSTAT TO BE COMPLETED BY OTHERS. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.



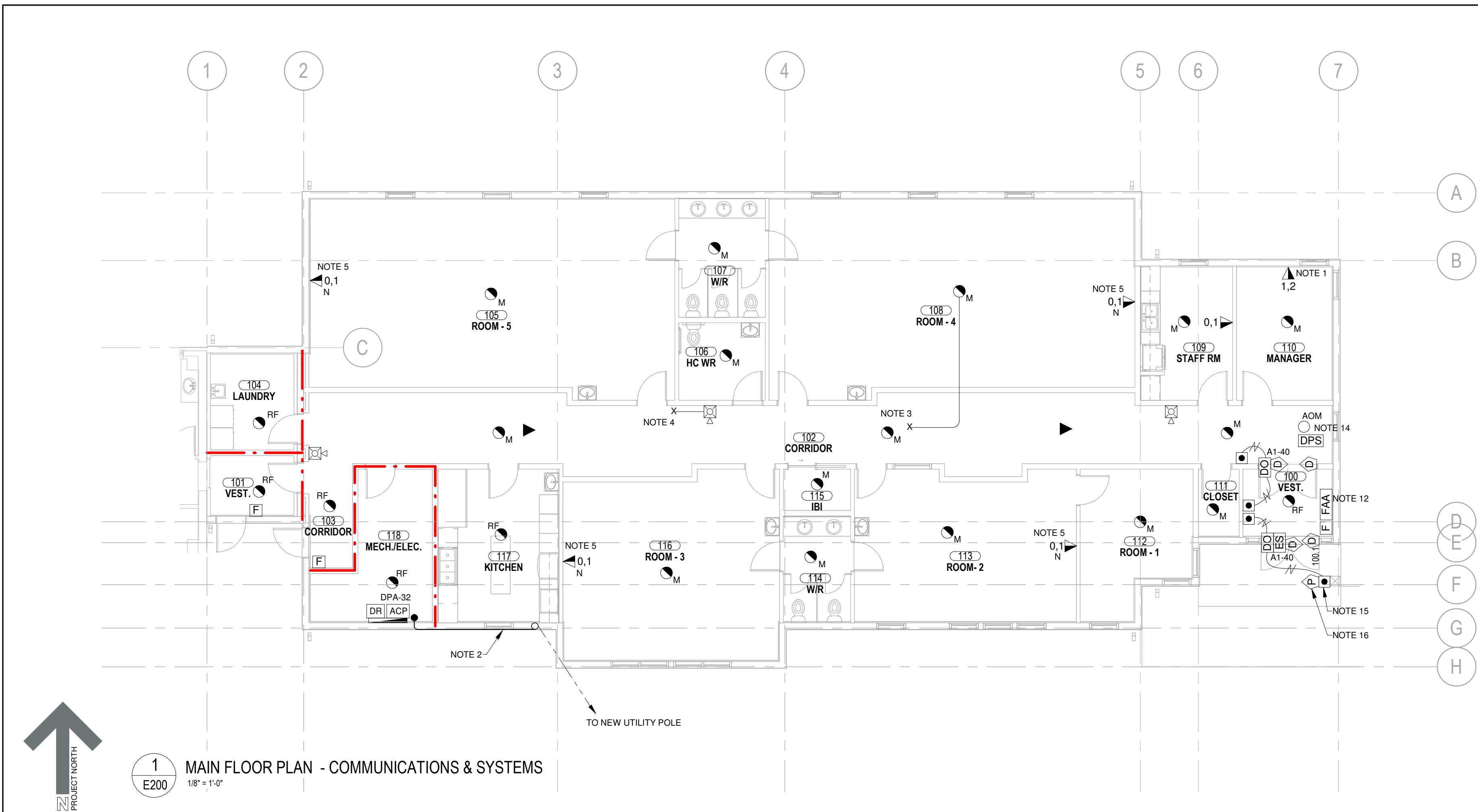
ITEM	DESCRIPTION
1	400A, 120/240V, SINGLE PHASE, THREE WIRE MAIN SERVICE RATED DISCONNECT SWITCH FUSED AT 400A AND C/W NEUTRAL KIT
2	400A PT/CT METER CABINET
3	400A MLO, 120/240V, SINGLE PHASE, THREE WIRE DISTRIBUTION PANELBOARD 'DPA'

2 MECH/ELEC 118 ENLARGEMENT
1/4" = 1'-0"

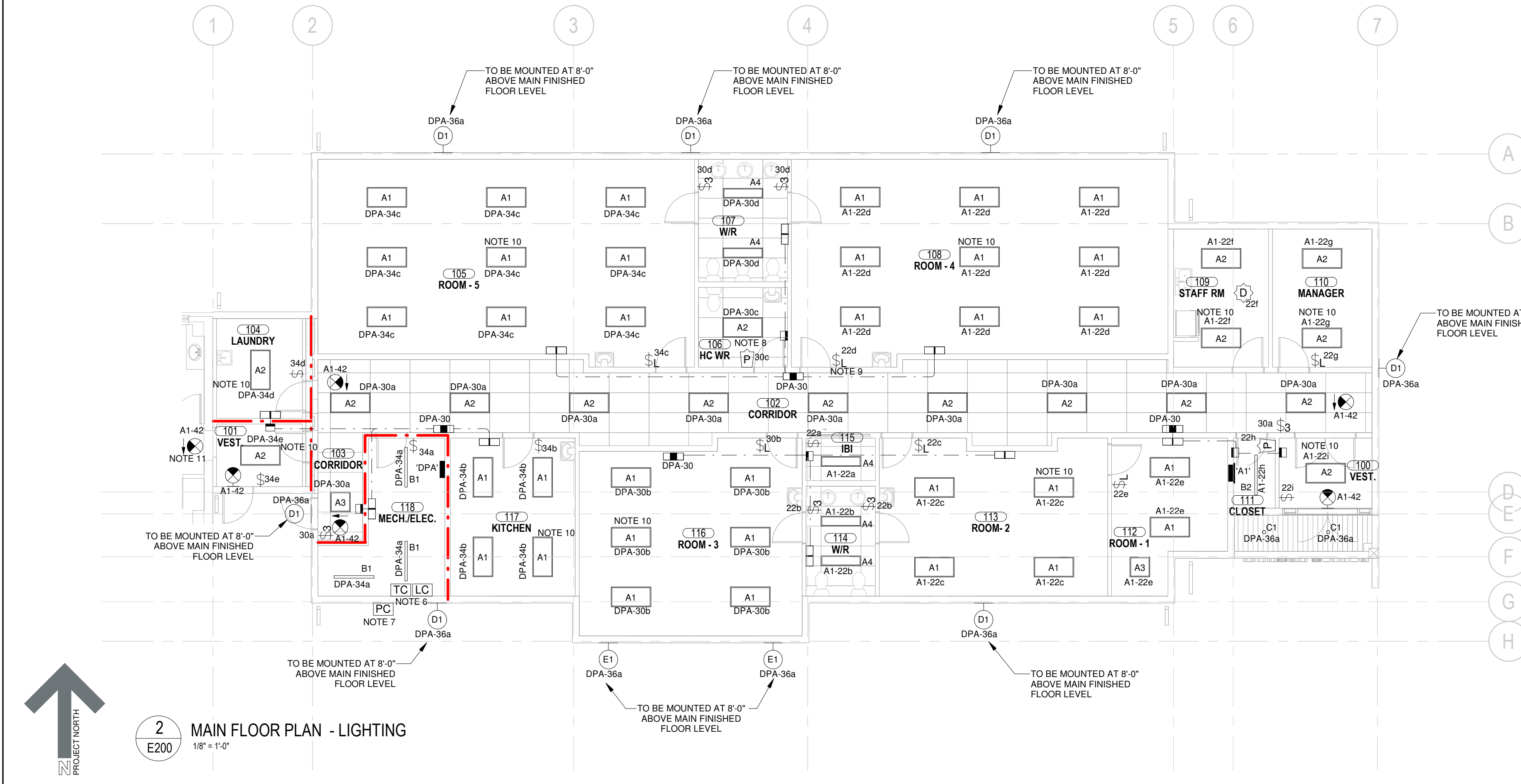


3 KITCHEN 117 ENLARGEMENT
1/4" = 1'-0"

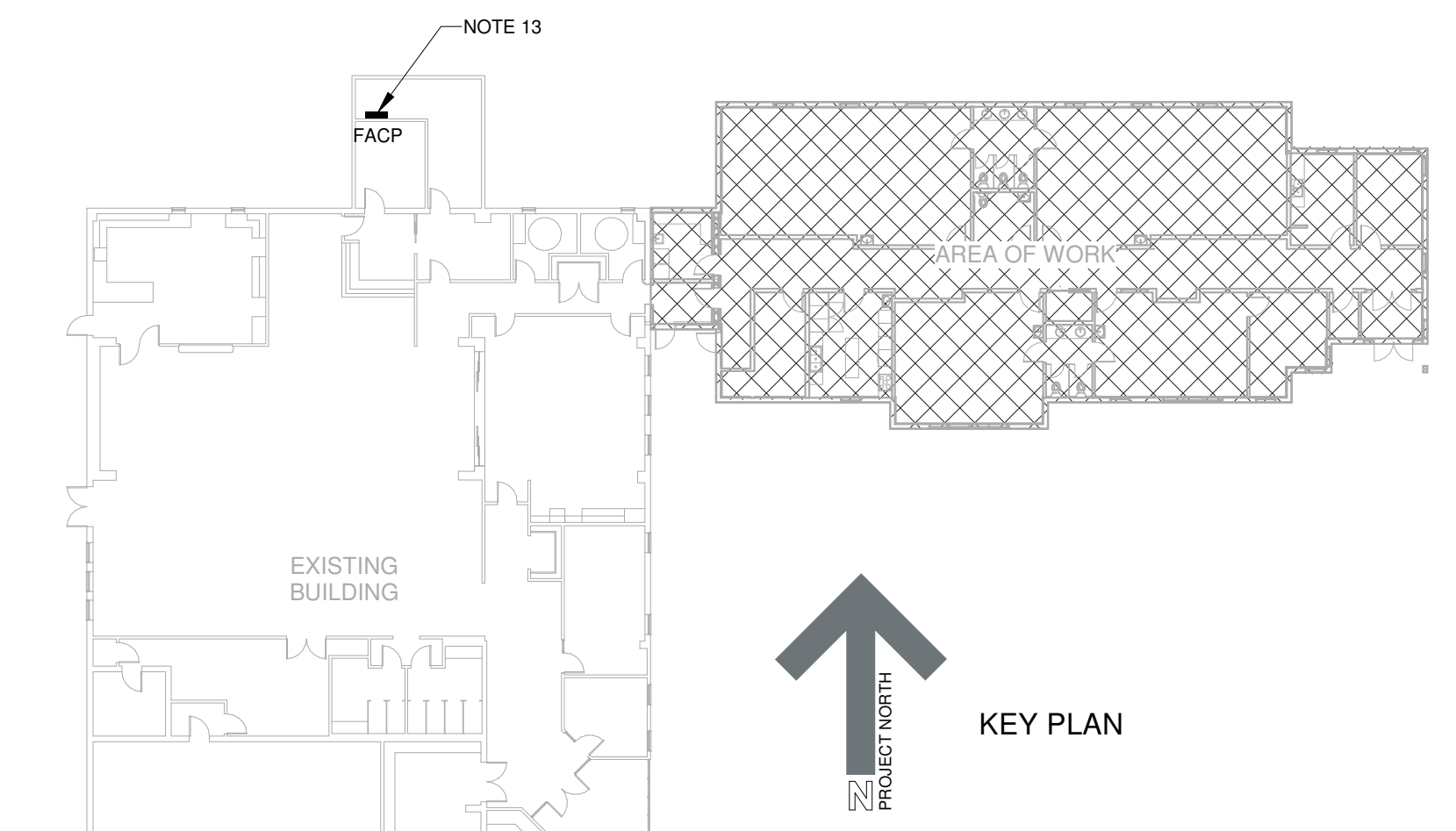
<p>Architecture + Engineering + Project Management</p> <p>Suite 201, 85 Fitzroy Street Charlottetown, P.E.I., Canada, C1A 1R6 Phone: (902) 368-2300 www.colesassociates.com</p>	<p>Client Rural Municipality of Kinkora</p>	<p>Project Title Kinkora Community Hall Expansion</p>	<p>Sheet Title Main Floor Plan & Enlargements - Power</p>	No.	Description	Date	Date: 2023-09-21	Revision
				0	Issued for Tender	2023-09-21	<p>Drawn By: C.L.S., C.E.T./E.A., E.I.T.</p> <p>Checked By: E.S.C., P.ENG</p> <p>Project Number: 231053</p> <p>Drawing Number: E100</p>	



1 MAIN FLOOR PLAN - COMMUNICATIONS & SYSTEMS
E200
1/8" = 1'-0"



2 MAIN FLOOR PLAN - LIGHTING
E200
1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- GAUGE OF BRANCH CIRCUIT WIRING TO BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% IN ACCORDANCE WITH CSA 22.1-21 SECTION 8.
- CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED SEPARATIONS ARE TO BE FIRE AND SMOKE SEALED BY GENERAL CONTRACTOR SO THAT THE FIRE RATING OF THE SEPARATION IS MAINTAINED. ACCEPTABLE MANUFACTURER OR APPROVED EQUAL: 3M BRAND FIRE BARRIER. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED ASSEMBLY LOCATIONS.
- EXPOSED ELECTRICAL CONDUIT BOXES AND SUPPORTS IN FINISHED AREAS ARE TO BE PAINTED THE COLOUR OF ADJACENT FINISHED SURFACE. COORDINATE EXACT COLOUR AND ASSOCIATED PAINTING WITH GENERAL CONTRACTOR ON SITE.
- REFER TO DETAIL 2/E301 FOR FIRE ALARM RISER SCHEMATIC.
- REFER TO FIRE ALARM VERIFICATION REPORT ATTACHED IN THE SPECIFICATIONS APPENDIX 'C' FOR ADDITIONAL INFORMATION ON WIRING OF THE NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM INITIATION AND NOTIFICATION LOOPS.
- MODIFIED FIRE ALARM SYSTEM OF THE KINKORA COMMUNITY HALL TO BE RE-VERIFIED AND INSPECTED IN ACCORDANCE WITH CAN/ULC-S537 AND CAN/ULC-S561.
- ALL COMMUNICATIONS CABLEING TO BE ROUTED IN CONDUITS FROM MAIN COMMUNICATIONS BACKBOARD LOCATED IN MECH/ELEC 118 THROUGH ATTIC SPACE TO ASSOCIATED COMMUNICATIONS OUTLET. COORDINATE EXACT CONDUIT ROUTING AND INSTALLATION WITH GENERAL CONTRACTOR ON SITE.

NOTES

- RUN COMMUNICATIONS CABLEING THROUGH ATTIC SPACE TO A 3/4" ROUTED DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL CAVITY TO COMMUNICATIONS OUTLET. BOND CONDUIT TO CLOSEST GROUNDED RACEWAY OR JUNCTION BOX WITH 1#14 GREEN BOND WIRE STRUCTURED CABLEING IN ACCORDANCE WITH CSA 22.1-21 SECTION 10. (TYPICAL)
- 4" COMMUNICATIONS CONDUIT ROUTED DOWNWARDS FROM NEW COMMUNICATIONS SERVICE MAST AND THEN RUNS HORIZONTALLY AT 8'-0" ABOVE MAIN FINISHED FLOOR LEVEL ON THE EXTERIOR FACADE OF THE BUILDING. CONDUIT IS THEN TO STUB THROUGH THE SIDE WALL INTO THE CEILING SPACE OF MECH/ELEC 118 THROUGH AN LB BELOW ADJACENT TO COMMUNICATIONS BACKBOARD. COORDINATE EXACT CONDUIT ROUTING AND INSTALLATION ON SITE PRIOR TO ROUGH-IN. PROVIDE FOR PAINTING OF EXTERIOR CONDUIT ROUTED ALONG THE EXTERIOR FACADE TO MATCH THE COLOR OF THE ADJACENT SURFACE.
- WIRE FIRE ALARM INITIATION DEVICE WITH FIRE ALARM CABLEING IN 3/4" ROUTED THROUGH THE ACCESSIBLE CEILING SPACE TO CLOSEST AVAILABLE FIRE ALARM INITIATION LOOP OF EXISTING SIEMENS #FS-250C FIRE ALARM CONTROL PANEL LOCATED IN EXISTING MAIN VESTIBULE. (TYPICAL FOR ALL NEW FIRE ALARM INITIATION DEVICES)
- WIRE FIRE ALARM NOTIFICATION DEVICE WITH FIRE ALARM CABLEING IN 3/4" ROUTED THROUGH THE ACCESSIBLE CEILING SPACE TO CLOSEST AVAILABLE FIRE ALARM NOTIFICATION LOOP #A22 OF EXISTING SIEMENS #FS-250C FIRE ALARM CONTROL PANEL LOCATED IN EXISTING MAIN VESTIBULE. (TYPICAL FOR ALL NEW FIRE ALARM NOTIFICATION DEVICES)
- COMMUNICATIONS OUTLET TO BE LOCATED IN A 3-GANG RECESS MOUNTED WALL BOX. WIRE COMMUNICATIONS OUTLET WITH ONE (1) CAT 6 COMMUNICATIONS CABLEING IN 1/2" ROUTED UP THROUGH INTERIOR OF GYPSUM WALL CAVITY STUBBED WITHIN THE ATTIC SPACE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
- COORDINATE EXACT SCHEDULING AND PROGRAMMING OF TIME CLOCK WITH OWNER. REFER TO DETAIL 2/E300 FOR ADDITIONAL INFORMATION ON EXTERIOR WIRING SCHEMATIC.
- PHOTOCELL TO BE MOUNTED AT 8'-0" ABOVE FINISHED GRADE. ENSURE PHOTO CELL IS NOT OBSTRUCTED BY SHADOWING PRIOR TO ROUGH-IN. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT ON SITE PRIOR TO ROUGH-IN.
- REFER TO DETAIL 3/E300 FOR ADDITIONAL INFORMATION ON MOTION SENSOR.
- REFER TO DETAIL 4/E300 FOR ADDITIONAL INFORMATION ON 0-10VDC WIRING SCHEMATIC.
- TYPES A1 AND A2 LUMINAIRES TO BE SURFACE MOUNTED TO DRYWALL CEILING, EXCEPT IN CORRIDOR 102. LUMINAIRES TO BE PROVIDED WITH SURFACE MOUNT KITS AS REQUIRED (TYPICAL).
- EXIT SIGN CEILING MOUNTED IN EXISTING HALL TO BE WIRED TO NEW EXIT SIGN BRANCH CIRCUIT A1-54'. COORDINATE EXACT LOCATION AND WIRING ON SITE PRIOR TO ROUGH-IN.
- WIRE NEW ANNUNCIATOR TO FIRE ALARM CONTROL PANEL LOCATED IN EXISTING MAIN ENTRY VESTIBULE WITH ONE (1) PAIR OF 2#18 AWG IN 1/2" FOR POWER AND TWO PAIR OF 2#18 TWISTED SHIELDED IN 1/2" FOR DATA. CONDUITS TO BE ROUTED THROUGH THE ACCESSIBLE CEILING SPACE OF CORRIDOR 102, VESTIBULE 101 AND EXISTING HALL. COORDINATE EXACT LOCATION AND CONDUIT ROUTING ON SITE PRIOR TO ROUGH-IN.
- INTERIOR CONTROLLER OF EXISTING SIEMENS #FS-250C FIRE ALARM CONTROL PANEL LOCATED IN MAIN ENTRY VESTIBULE TO BE REPLACED WITH NEW INTERIOR ADAPTOR, DOOR AND DISPLAY AS REQUIRED TO ACCOMMODATE FOR THE NEW INITIATION AND NOTIFICATION DEVICES AS THE EXISTING SIEMENS #FS-250C PANELS HAVE BEEN DISCONTINUED. EXISTING RECESS MOUNTED FIRE ALARM TUB AND EXISTING INITIATION AND NOTIFICATION FIRE ALARM DEVICES TO BE MAINTAINED IN-SITU. PROVIDE FOR DISCONNECTING AND RECONNECTING EXISTING FIRE ALARM INITIATION AND NOTIFICATION LOOPS TO NEW FIRE ALARM CONTROLLER INSTALLED WITHIN EXISTING TUB AS REQUIRED.
- INSTALL FIRE ALARM ADDRESSABLE OUTPUT MODULE IN ACCESSIBLE CEILING SPACE AND CONNECT TO DOOR POWER SUPPLY SUCH THAT UPON FIRE ALARM #ACCESS CONTROLLED DOORS ARE DEACTIVATED PERMITTING UNOBSTRUCTED EGRESS.
- LOW VOLTAGE CABLEING ASSOCIATED WITH POWER ASSISTED PUSH BUTTON TO BE ROUTED THROUGH EXTERIOR SOFFIT AND THEN DOWNWARDS THROUGH INTERIOR OF COLUMN. COORDINATE EXACT CABLE ROUTING ON SITE PRIOR TO ROUGH-IN.
- ACCESS CONTROL PROXIMITY CARD TO BE MOUNTED ABOVE POWER ASSISTED PUSH BUTTON. CAT6 COMMUNICATIONS CABLEING TO BE ROUTED THROUGH EXTERIOR SOFFIT AND THEN DOWNWARDS THROUGH INTERIOR OF COLUMN. COORDINATE ON SITE PRIOR TO ROUGH-IN.



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

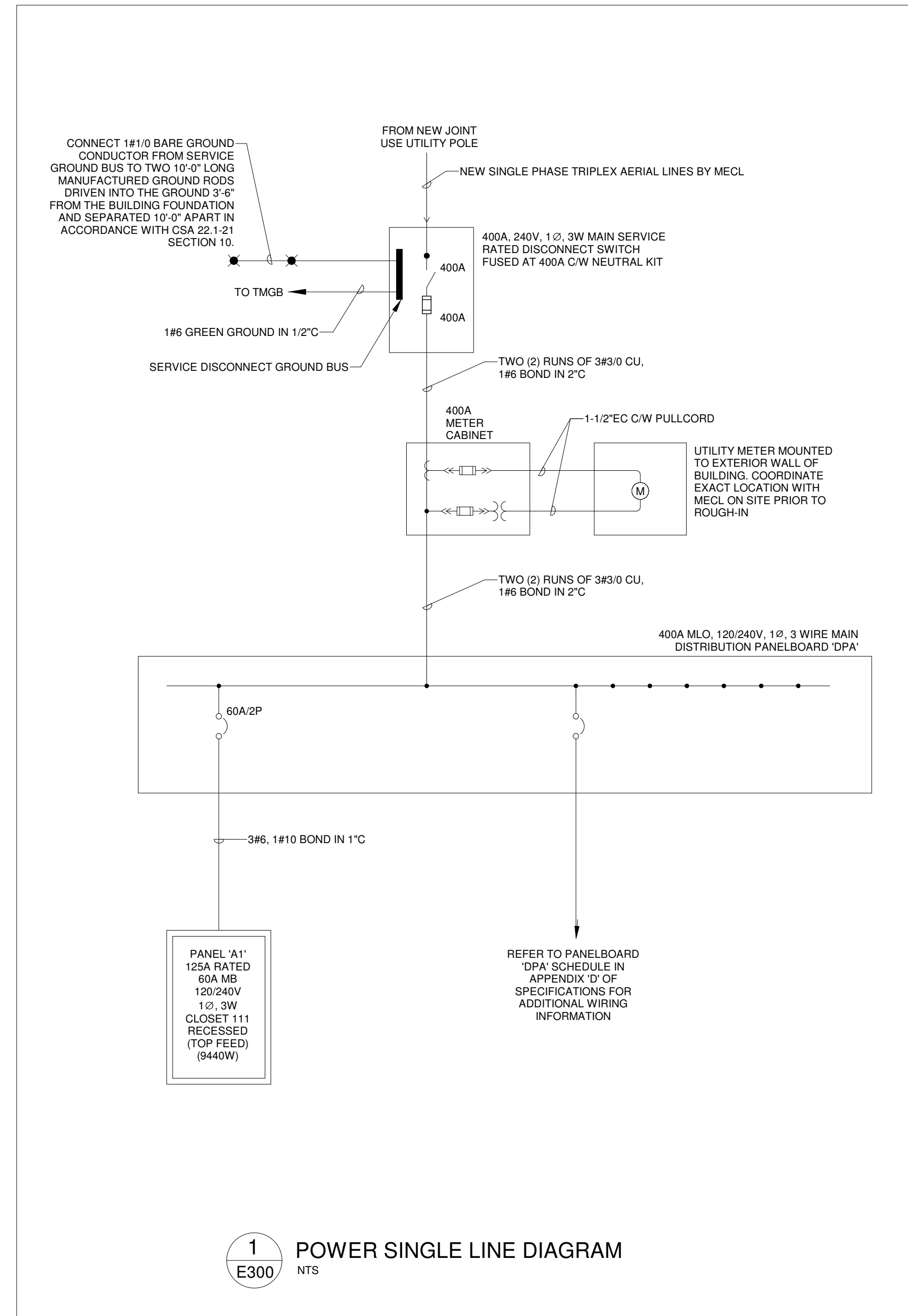


Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

Sheet Title
Main Floor Plan - Communications, Systems & Lighting

No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-09-21	2023-09-21	0
			Drawn By: C.L.S., C.E.T./E.A., E.I.T.	
			Checked By: E.S.C., P.ENG	
			Project Number: 231053	
			Drawing Number: E200	

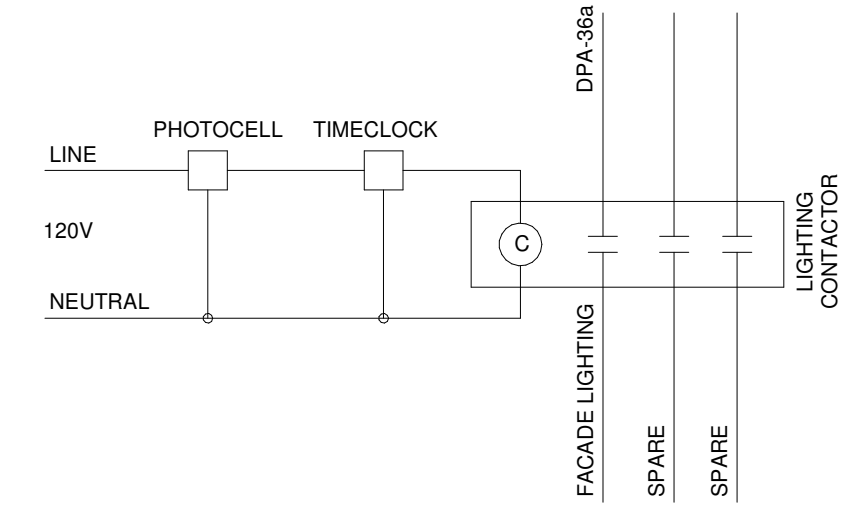


1 POWER SINGLE LINE DIAGRAM
NTS

DEMAND CALCULATION				
BASIC LOAD CALCULATION - REFERENCING CSA 22.1-21 AND 8-210 (a)				
REFERENCING CSA 22.1-21 TABLE 14				
DESIGNATION	AREA (m²)	TYPE OF OCCUPANCY	W/m²	TOTAL DEMAND (W)
MAIN FLOOR	437	OFFICE	50	19,665
SPECIAL LOAD CALCULATION - REFERENCING CSA 22.1-18 8-210 (b), AND 62-118 (5)				
DESIGNATION	TOTAL LOAD (W)	DEMAND %	TOTAL DEMAND (W)	
MECHANICAL LOADS (HRV-1, P-1)	1,800	75	1,350	
HEATING LOADS (BB'S, HC'S, OU'S & IU'S)	59,170	75	44,378	
KITCHEN EQUIPMENT	14,000	50	7,000	
TOTAL DEMAND CALCULATION - REFERENCING CSA 22.1-21 8-210 (b)				
TOTAL BASIC DEMAND (W)			19,665	
TOTAL SPECIAL DEMAND (W)			52,728	
TOTAL ELECTRIC DEMAND (W)			72,393	
MINIMUM SERVICE ENTRANCE AT 240V, 1 PHASE (x 1.25)			377A	

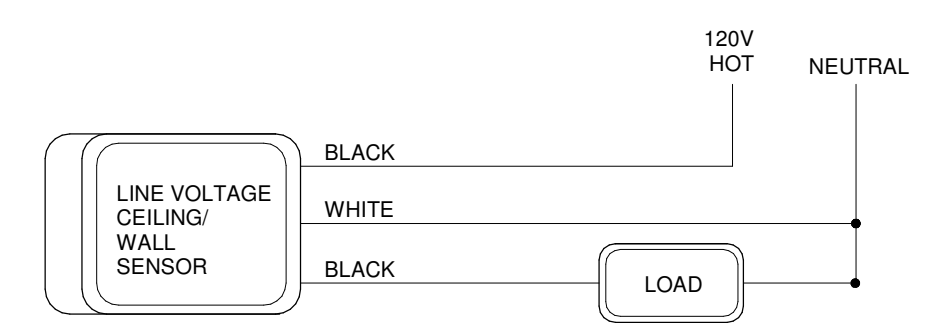
NOTE: IN ACCORDANCE WITH CSA 22.1-21 ARTICLE 8.106(4) DEMAND CALCULATION ARE BASED ON WINTER TIME OPERATION GIVEN THAT HEATING LOAD IS LARGER THAN THE COOLING LOAD.

- NOTES:**
- LIGHTING CONTACTOR TO BE MECHANICALLY OPERATED, ELECTRICAL HELD, 2 POLE MINIMUM RATING 30A, 12Ø VOLT, SQUARE-D #LG30-V02, OR APPROVED EQUAL.
 - TIME CLOCK TO BE C/W 24 HOUR SKIP A DAY, CARRYOVER, INTERMATIC #ET8215C OR APPROVED EQUAL.
 - PHOTOCELL TO BE TEMPERATURE COMPENSATED, THERMAL TYPE, INTERMATIC #K4251 OR APPROVED EQUAL.

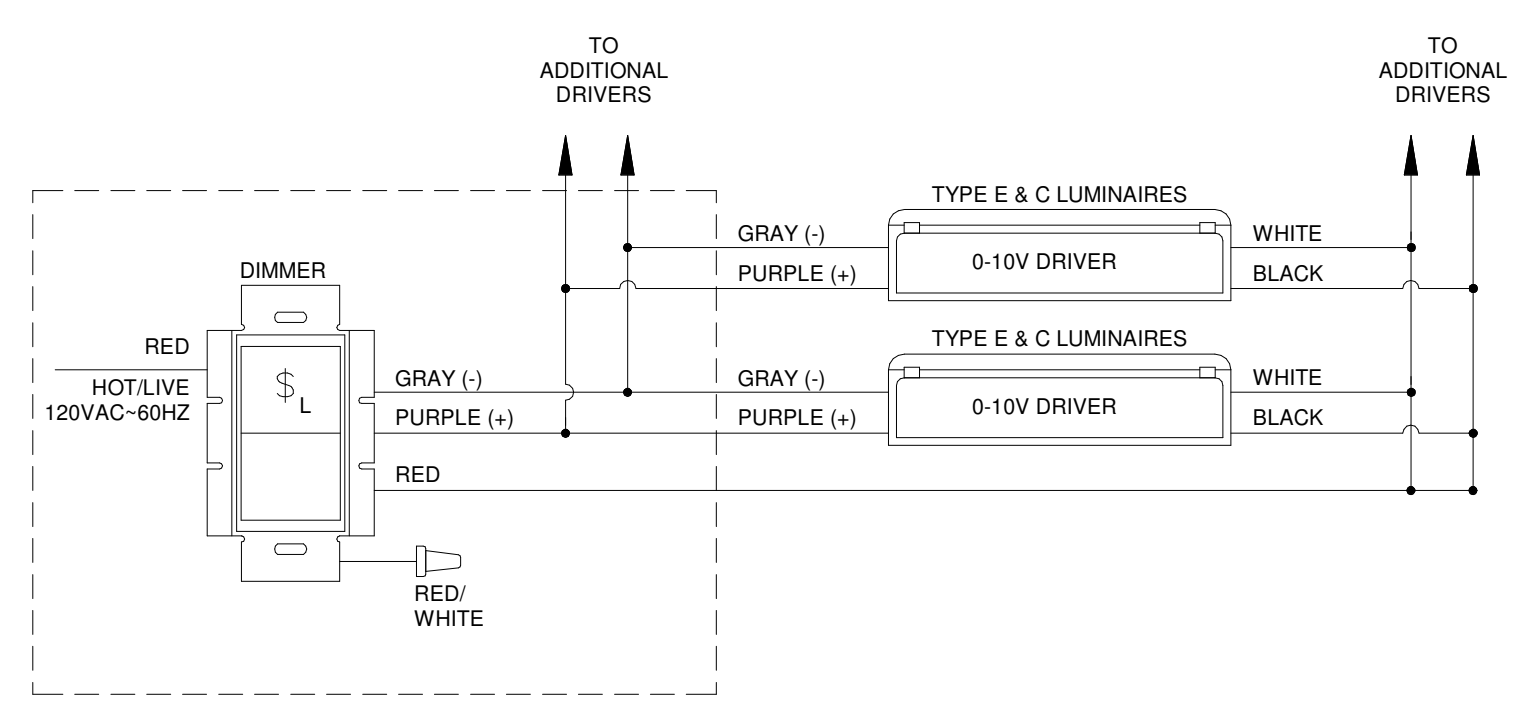


2 EXTERIOR LIGHTING CONTROL DETAIL
NTS

- SCHEMATIC GENERAL NOTES:**
- IF LOW VOLTAGE CEILING/WALL SENSOR IS INSTALLED, POWER PACK TO BE MOUNTED IN ACCESSIBLE CEILING SPACE OF CORRIDOR 102 IN A 4"x4"x2" SQUARE JUNCTION BOX.



3 MOTION SENSOR WIRING SCHEMATIC
NTS



4 0-10 VDC DIMMING CONTROL
NTS

MECHANICAL EQUIPMENT SCHEDULE SYSTEM									
TYPE	LOCATION	DESCRIPTION	VOLTS	PHASE	RATED		AMPS		REMARKS
					KW	HP			
HC-1	MECH/ELEC 118	HRV-1 SUPPLY DUCT	240	1	10.7	-	-	-	SUPPLY AND INSTALL LOCAL CSA TYPE 1 60A, 240V, SINGLE PHASE UNFUSED DISCONNECT SWITCH AND WIRE TO HC-1 THROUGH ITS TERMINAL BLOCK WITH 2#6, 1#6 BOND IN 1" C. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
HC-2	MECH/ELEC 118	IU-1 SUPPLY DUCT	240	1	15	-	-	-	SUPPLY AND INSTALL LOCAL CSA TYPE 1 100A, 240V, SINGLE PHASE UNFUSED DISCONNECT SWITCH AND WIRE TO HC-2/HC-3 THROUGH ITS TERMINAL BLOCK WITH 2#4, 1#8 BOND IN 1-1/4" C. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
HC-3	MECH/ELEC 118	IU-2 SUPPLY DUCT	240	1	15	-	-	-	
HRV-1	MECH/ELEC 118	HEAT RECOVERY VENTILATOR	240	1	1.34	-	13.75 (MCA) 15 (MOCP)	-	SUPPLY AND INSTALL LOCAL CSA TYPE 1 15A, 240V, SINGLE PHASE UNFUSED DISCONNECT SWITCH AND WIRE TO HRV-1 WITH 2#12, 1#14 BOND IN 3/4" C. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
IU-1	MECH/ELEC 118	INDOOR UNIT	240	1	0.876	-	15 (MOCP)	-	SUPPLY AND INSTALL LOCAL CSA TYPE 1 15A, 240V, SINGLE PHASE UNFUSED DISCONNECT SWITCH AND WIRE TO INDOOR UNIT WITH 2#12, 1#14 BOND IN 3/4" C. ALL CONTROLS WIRING TO OUTDOOR CONDENSING UNIT TO BE COMPLETED BY OTHERS AND ALL POWER WIRING TO BE COMPLETED BY DIV.26. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
IU-2	MECH/ELEC 118	INDOOR UNIT	240	1	0.876	-	15 (MOCP)	-	
OU-1A	OUTDOOR	OUTDOOR CONDENSING UNIT	240	1	-	-	28.1 (MCA) 35 (MOCP)	-	SUPPLY AND INSTALL LOCAL CSA TYPE 3R RATED 60A UNFUSED DISCONNECT SWITCH. LOCATE CSA TYPE 3R RATED UNFUSED DISCONNECT SWITCH ADJACENT TO FLOOR MOUNTED OUTDOOR CONDENSING UNIT. ROUTE TECK CABLES TO CSA TYPE 3R UNFUSED DISCONNECT SWITCH ADJACENT TO MECHANICAL LINES. ALL CONTROL CABLING BETWEEN INDOOR AND OUTDOOR UNIT TO BE SUPPLIED AND INSTALLED BY OTHERS AND ALL POWER WIRING TO BE COMPLETED BY DIV.26. COORDINATE EXACT LOCATION OF CSA TYPE 3R UNFUSED DISCONNECT SWITCH, OUTDOOR CONDENSING UNIT AND INTERIOR UNITS ON SITE PRIOR TO ROUGH-IN. SEAL EXTERIOR PENETRATIONS WITH LOW VOC MASTIC COMPOUND AS REQUIRED.
OU-1B	OUTDOOR	OUTDOOR CONDENSING UNIT	240	1	-	-	29.1 (MCA) 35 (MOCP)	-	
P-1	MECH/ELEC 118	RECIRC PUMP	120	1	0.1	-	-	-	SUPPLY AND INSTALL LOCAL MANUAL MOTOR SWITCH AND WIRE TO PUMP P-1 WITH 2#12, 1#14 BOND IN 3/4" C. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.

HEATER SCHEDULE									
TYPE	LOCATION	DESCRIPTION	VOLTS	PHASE	RATED		AMPS		REMARKS
					KW	HP			
BB-1	LAUNDRY ROOM 104	ELECTRIC BASEBOARD HEATER	240	1	0.75	-	-	-	
BB-2	STAFF ROOM 109	ELECTRIC BASEBOARD HEATER	240	1	0.5	-	-	-	ELECTRIC BASEBOARD HEATER TO BE WIRED THROUGH LINE VOLTAGE THERMOSTAT WITH 2#12, 1#14 BOND IN 3/4" C ROUTED THROUGH THE ATTIC SPACE AND THEN DOWNWARDS THROUGH THE INTERIOR OF GYPSUM WALL CAVITY. ELECTRIC BASEBOARD HEATER AND LINE VOLTAGE THERMOSTAT TO BE SUPPLIED AND INSTALLED BY DIV.23 AND WIRED BY DIV.26. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
BB-3	OFFICE 110	ELECTRIC BASEBOARD HEATER	240	1	0.5	-	-	-	
WF-1	VESTIBULE 101	WALL FAN HEATER	240	1	0.5	-	-	-	WALL FAN HEATER TO BE RECESS MOUNTED AND WIRED WITH 2#12, 1#14 BOND IN 3/4" C ROUTED THROUGH THE ATTIC SPACE AND THEN DOWNWARDS THROUGH INTERIOR OF GYPSUM WALL CAVITY. ALL CONTROLS WIRING TO BE COMPLETED BY OTHER. WALL FAN HEATER TO BE SUPPLIED AND INSTALLED BY DIV.23. WIRED BY DIV.26. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR ON HEIGHT PRIOR TO ROUGH-IN.
WF-2	VESTIBULE 100	WALL FAN HEATER	240	1	0.5	-	-	-	



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com

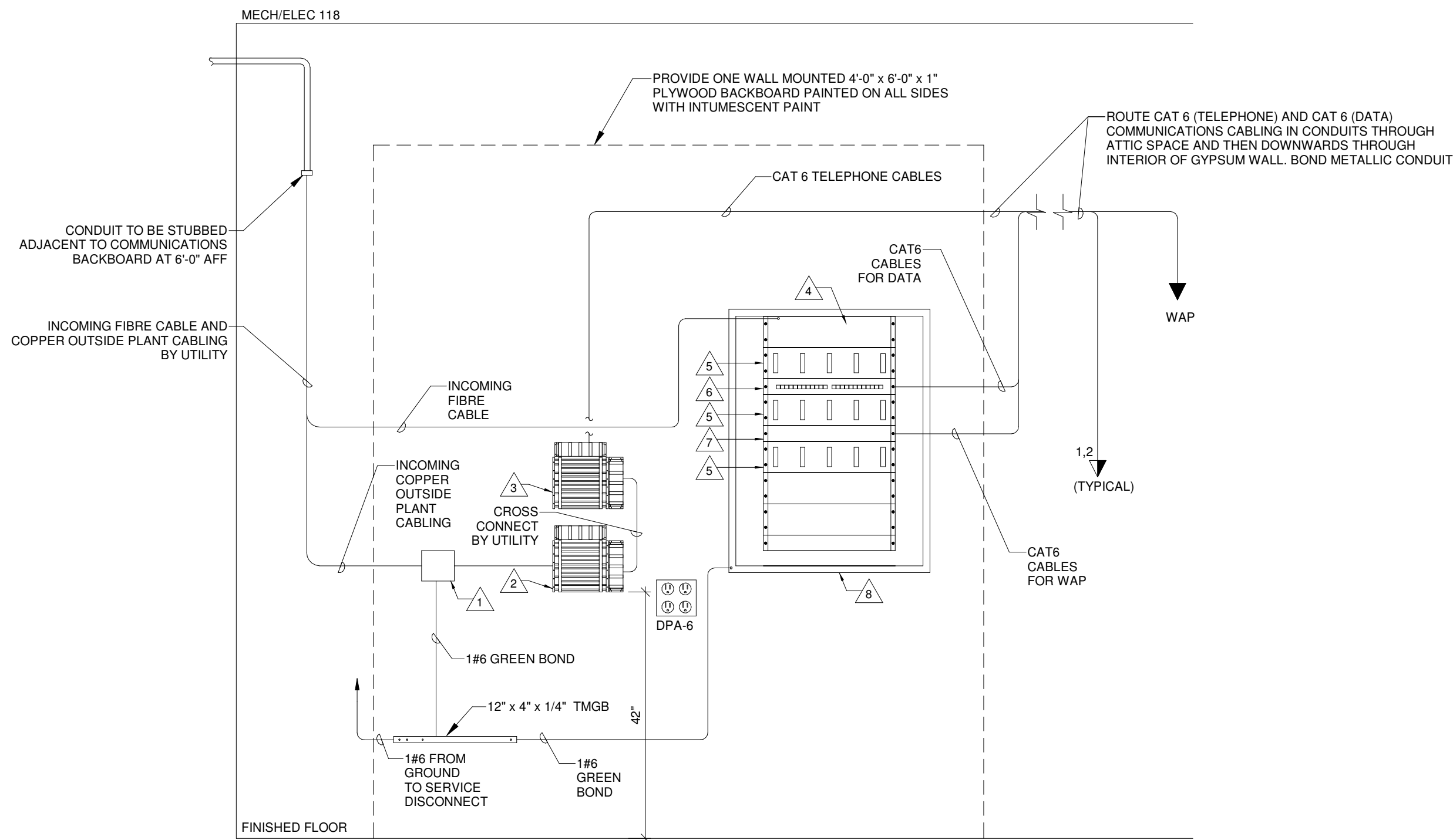


Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

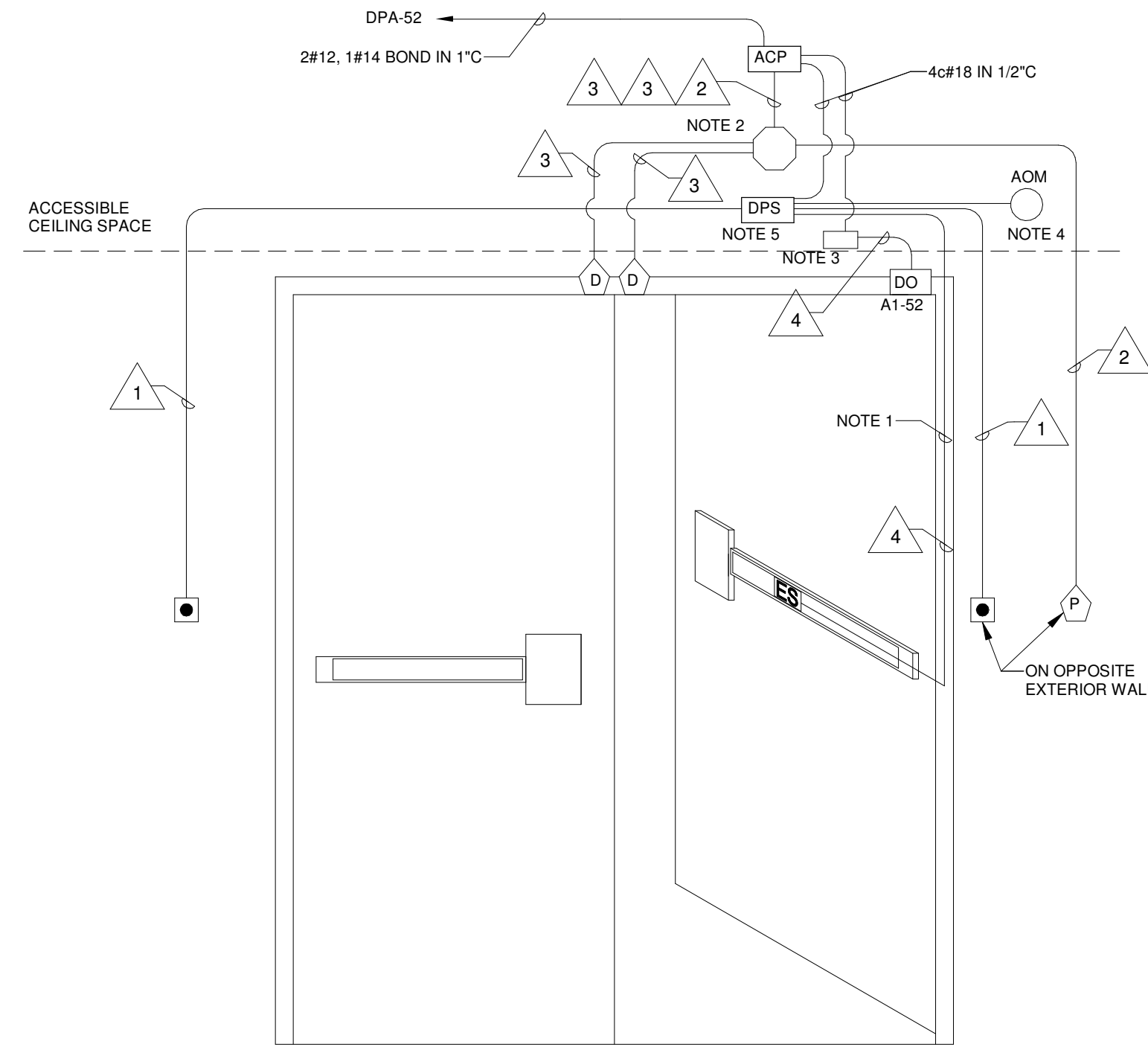
Sheet Title
Details & Schedules

No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-09-21	2023-09-21	0
			Dim By: C.L.S., C.E.T./E.A., E.I.T.	
			Chk By: E.S.C., P.ENG	
			Project Number:	
			231053	
			Drawing Number:	
			E300	



ITEM	DESCRIPTION
1	SURGE ARRESTER BY UTILITY
2	UTILITY CONNECTION BIX BLOCK
3	OWNER'S CONNECTION BIX BLOCK
4	SPACE FOR OWNER SUPPLIED NETWORK SWITCH (2RU)
5	HORIZONTAL CABLE MANAGEMENT (2RU)
6	24 PORT PATCH PANEL FOR DATA (2RU)
7	SPACE FOR OWNER SUPPLIED WAP SWITCH (1RU)
8	24RU WALL MOUNTED DATA RACK

1
E301
COMMUNICATION RISER SCHEMATIC
NTS



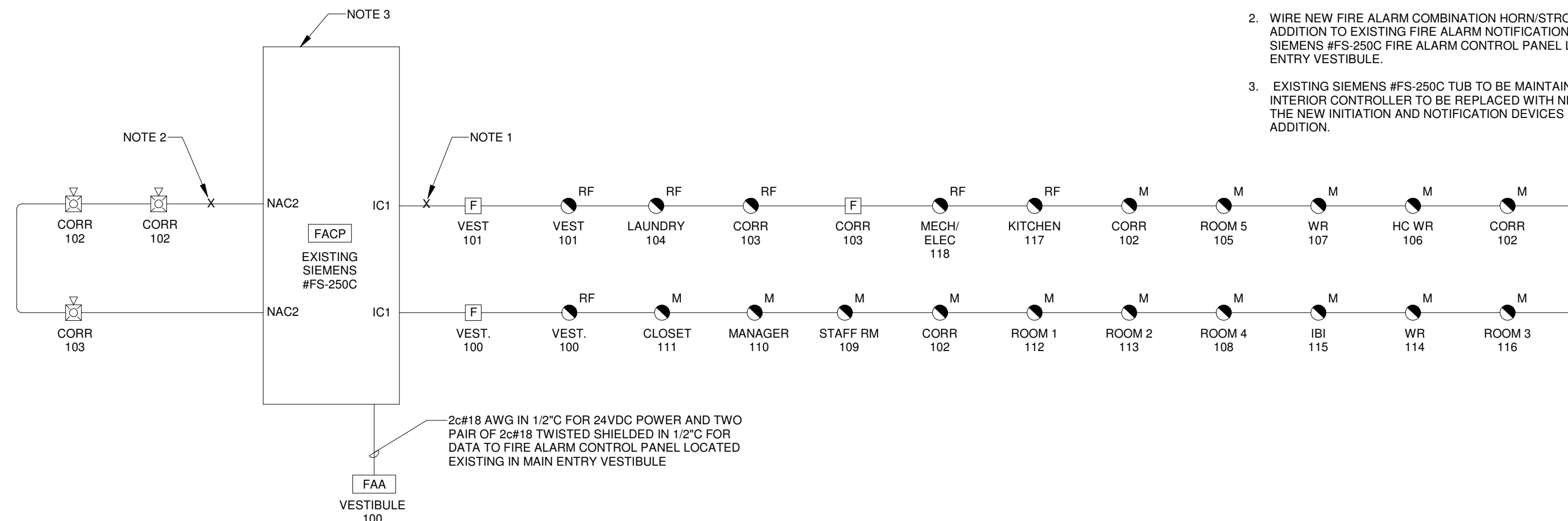
ACCESS CONTROL WIRING SCHEDULE			
ITEM	WIRE DESCRIPTION	SUPPLIED BY	PART #
1	2#18 AWG	DIV. 28	PROVO #9182 OR EQUAL
2	6#22 AWG SHIELDED	DIV. 28	PROVO #6706 OR EQUAL
3	4#22 AWG	DIV. 28	PROVO #2222 OR EQUAL
4	6#18 AWG	DIV. 28	PROVO #9185 OR EQUAL

- NOTES:
- CONCEAL ACCESS CONTROL WIRING IN DOOR FRAME. COORDINATE INSTALLATION WITH DIV. 8 ON SITE. (TYPICAL)
 - CABLES TO BE RUN CONTINUOUS WITHOUT SPLICE BETWEEN ACCESS CONTROL DOOR CONTROL PANEL. IF SPLICING IS REQUIRED IT IS TO BE COMPLETED ON NUMBERED TERMINAL STRIPS WITHIN AN ELECTRICAL JUNCTION BOX. SPLICING OF ACCESS CONTROL CABLING USING MARRETTES IS NOT PERMITTED. (TYPICAL).
 - WIRE POWER ASSISTED DOOR OPERATOR THROUGH FAIL SAFE DOOR CONTROLLER RELAY CAMDEN #CX-33 OR APPROVED EQUAL LOCATED IN A 100mm x 100mm JUNCTION BOX IN ACCESSIBLE CEILING SPACE AND PROGRAM DOOR CONTROLLER SUCH THAT PUSHBUTTONS ARE DISABLED WHEN DOOR IS LOCKED. WIRE DOOR CONTROLLER RELAY WITH 4#18 TO ACCESS CONTROL PANEL. COORDINATE EXACT PROGRAMMING OF DOOR CONTROLLER RELAY WITH OWNER.
 - CONNECT FIRE ALARM ADDRESSABLE OUTPUT MODULE TO DOOR HARDWARE POWER SUPPLY AND PROGRAM TO UNLOCK ALL ACCESS CONTROLLED DOORS IN THE EVENT OF A FIRE ALARM.
 - WIRE POWER ASSISTED PUSH BUTTONS AND ELECTRIC STRIKE TO DOOR HARDWARE POWER SUPPLY SUPPLIED AND INSTALLED BY DIV. 08 AND WIRED BY DIV. 28. DOOR HARDWARE POWER SUPPLY TO BE LOCATED IN A 100mm x 100mm JUNCTION BOX IN ACCESSIBLE CEILING ABOVE EACH ACCESS CONTROLLED DOOR. WIRE EACH DOOR HARDWARE POWER SUPPLY WITH 4#18 TO ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION OF DOOR HARDWARE POWER SUPPLY ON SITE.

THEORY OF OPERATION:

DOOR TO NORMALLY REMAIN LOCKED RESTRICTING ENTRY WHILE STILL PERMITTING UNOBSTRUCTED EGRESS UNTIL A VALID PROXIMITY CARD IS PRESENTED TO THE READER MOMENTARILY RETRACTING THE ELECTRIC STRIKE PERMITTING UNOBSTRUCTED ENTRY. WHEN ELECTRIC STRIKE IS ENGAGED EXTERIOR BARRIER FREE PUSHBUTTON WILL NOT ACTIVATE PERMITTED DOOR OPERATOR. INSTALL CAMDEN #CX-33 PROGRAMMABLE LOGIC RELAY AS REQUIRED TO PROVIDE SCHEDULING AND SHUNT OF DOOR OPERATOR. DOOR CONTACT TO MONITOR POSITION OF DOOR AND ALARM IF LEFT OPEN. OWNER TO IDENTIFY DURING THE PROGRAMMING AND COMMISSIONING OF THE ACCESS CONTROL SYSTEM, THE PROXIMITY CARDS THAT ARE REQUIRED TO BE PROGRAMMED TO BE ABLE TO UNLOCK DOOR 100.1 DURING A CERTAIN TIME FRAME OF THE DAY AND WEEK.

2
E301
ACCESS CONTROL DETAIL
NTS



- NOTES:
- WIRE NEW FIRE ALARM INITIATION DEVICE INSTALLED IN NEW ADDITION TO EXISTING FIRE ALARM INITIATION LOOP OF EXISTING SIEMENS #FS-250C FIRE ALARM CONTROL PANEL LOCATED IN EXISTING MAIN ENTRY VESTIBULE.
 - WIRE NEW FIRE ALARM COMBINATION HORN/STROBE INSTALLED IN NEW ADDITION TO EXISTING FIRE ALARM NOTIFICATION LOOP 'NAC2' OF EXISTING SIEMENS #FS-250C FIRE ALARM CONTROL PANEL LOCATED IN EXISTING MAIN ENTRY VESTIBULE.
 - EXISTING SIEMENS #FS-250C TUB TO BE MAINTAINED IN-SITU; HOWEVER, INTERIOR CONTROLLER TO BE REPLACED WITH NEW TO ACCOMMODATE FOR THE NEW INITIATION AND NOTIFICATION DEVICES INSTALLED IN THE NEW ADDITION.

3
E301
FIRE ALARM SINGLE LINE DIAGRAM
NTS

SYSTEM INPUTS	SYSTEM OUTPUTS												
	CONTROL UNIT ANNUNCIATION				NOTIFICATION					REQUIRED FIRE SAFETY CONTROL RELEASE			
	A	B	C	D	E	F	G	H	I	J	K	L	M
1 MANUAL FIRE ALARM PULL STATION	●	●											
2 SMOKE DETECTORS - MAIN LEVEL	●	●											
3 FIRE ALARM AC POWER FAILURE					●	●	●	●	●	●	●	●	●
4 FIRE ALARM SYSTEM LOW BATTERY					●	●	●	●	●	●	●	●	●
5 OPEN CIRCUIT					●	●	●	●	●	●	●	●	●
6 GROUND FAULT					●	●	●	●	●	●	●	●	●
7 NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●	●	●	●	●	●	●	●

4
E301
FIRE ALARM I/O MATRIX
NTS



Suite 201, 85 Fitzroy Street
Charlottetown, P.E.I., Canada, C1A 1R6
Phone: (902) 368-2300
www.colesassociates.com



Client
Rural Municipality of Kinkora

Project Title
Kinkora Community Hall Expansion

Sheet Title
Communications, Access Control & Fire Alarm Details

No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-09-21	2023-09-21	0
			Dim By: C.L.S., C.E.T./E.A., E.I.T.	
			Chk By: E.S.C., P.ENG	
			Project Number: 231053	
			Drawing Number: E301	