CITY OF PORT ALBERNI

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CITY OF PORT ALBERNI
PUBLIC SAFETY BUILDING RENOVATIONS

Addendum #2

REQUEST FOR PROPOSAL
RFP 024-21

Change to Scope of Work
Contractor Questions

Details in attachment

The City of Port Alberni (Owner) is inviting RFP Tenders from qualified contractors for the renovations of the Public Safety Building.

Contact:
Rob Kraneveldt, Facilities Operations Supervisor, Phone: 250-720-2511, Fax: 723-5633 or Email: rob_kraneveldt@portalberni.ca

PHI Architecture Inc

ADDENDUM No. 01
TO DOCUMENTS ISSUED FOR TENDER

Project: **CITY OF PORT ALBERNI**
PUBLIC SAFETY BUILDING RENOVATIONS

Addendum Date: **December 27, 2021**

1. Addendum
   1. The purpose of this addendum is to make the following clarifications, revisions, and additions/deletions to the tender documents before the close of the tender period.

2. Table of Contents
   1. Part One
      1. Tender Period Extended
      2. Change to Scope of Work
      3. Contractor Questions

   2. Part Two
      2.1 Structural Revision: Drawing S203.
      2.2 Electrical Revisions:
      Specification Revision A - 27 05 13 Ethernet Camera Systems.
      Specification Revision A - 27 05 13 Network Products and Methods
      Electrical Drawings E01, E02, E03 I.F. Tender Dec. 23, 2021.

1.0 Part One

1. Tender Period Extended

.1 Tender submission deadline extended to January 20, 2022 @ 2:30pm.

.2 Deadline for question: January 12, 2022.

2. Change to Scope of Work

.1 Add: Structural attachment details for vinyl room divider. Refer to S203.

.2 Delete: Electrical lighting fixture S1 from Storage Room.

.3 Add: Electrical lighting fixture S2 to Storage Room.

.4 Delete: Electrical lighting fixture A2 in Corridor outside Storage Room.

.5 Add: Electrical lighting fixture B2 in Corridor outside Storage Room.

.6 Delete: Electrical lighting fixture R2 from Janitor Room.

.7 Add: Electrical lighting fixture S3 to Janitor Room.

.8 Add: Electrical Sheet Notes E02: Notes 'G' and 'H'.

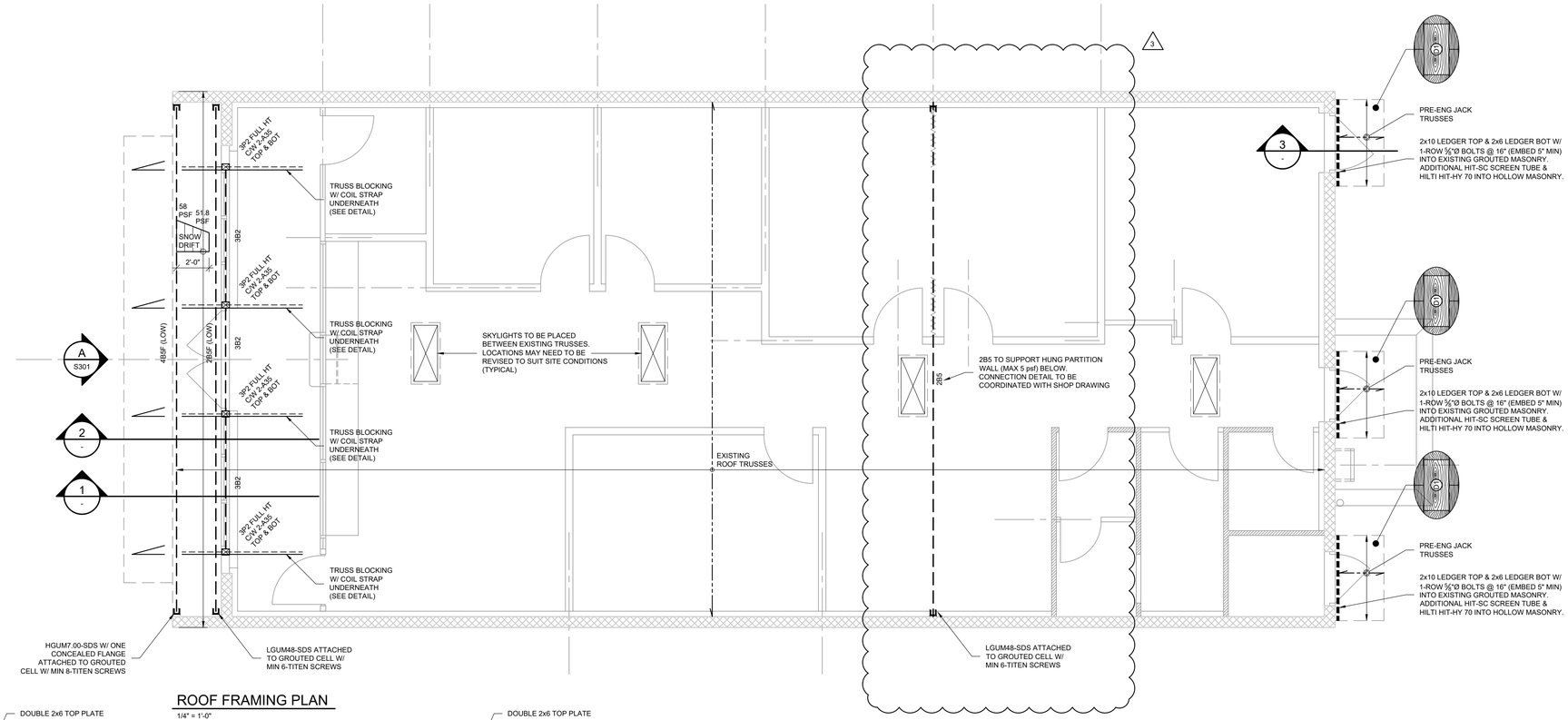
3. Contractor Questions

.1 None

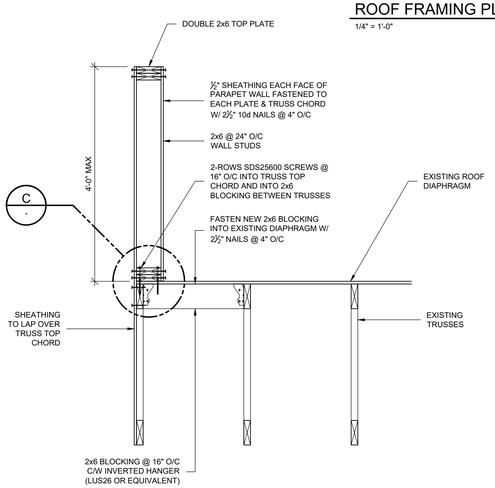
End of Addendum No. 01
December 27, 2021

NOTE:
THESE PLANS HAVE BEEN PREPARED FROM ARCHITECTURAL BASE PLANS. ALL DIMENSIONS ARE TO BE CONFIRMED WITH CURRENT ARCHITECTURAL DRAWINGS AND DISCREPANCIES REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION FOR EVALUATION.

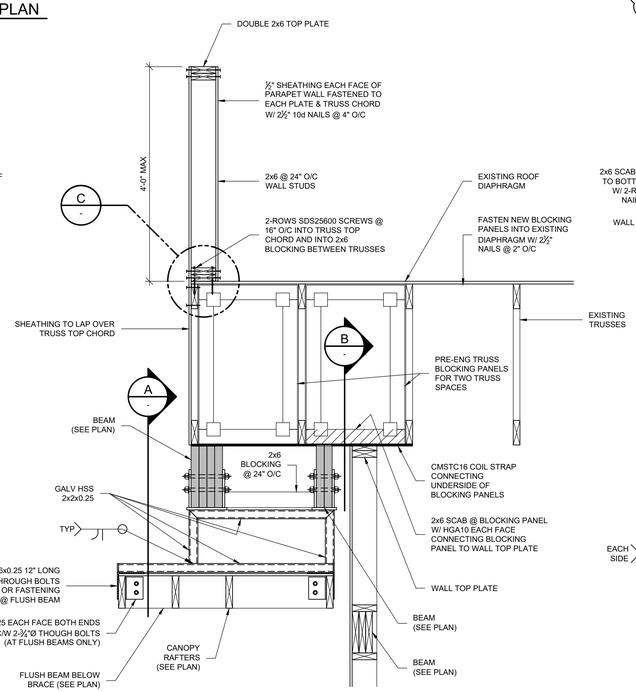
NOT FOR CONSTRUCTION



ROOF FRAMING PLAN
1/4" = 1'-0"



1 SECTION
3/4" = 1'-0"



2 SECTION
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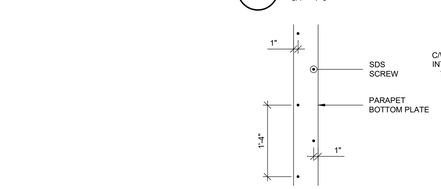
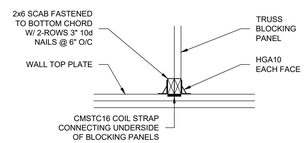
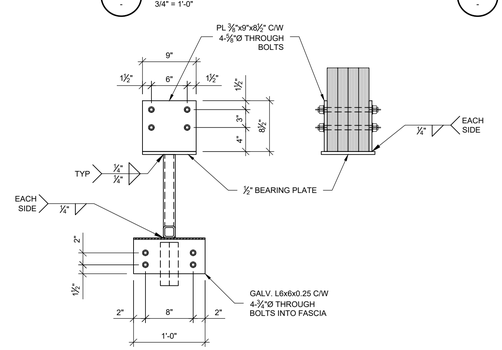


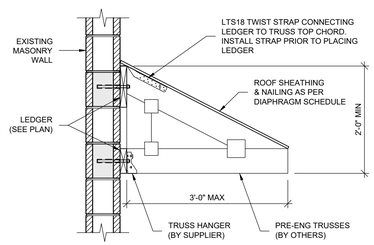
C DETAIL
3/4" = 1'-0"



B SECTION
3/4" = 1'-0"



A SECTION
1" = 1'-0"



3 SECTION
3/4" = 1'-0"

SPECIFIED ROOF LOADING

LOADING CONDITION	LOADING
DEAD LOAD	0.72 kPa (15 psf)
SNOW LOAD	2.48 kPa (51.8 psf)
LIVE LOAD DEFLECTION LIMIT	L/360
TOTAL LOAD DEFLECTION LIMIT	L/240

TIMBER DIAPHRAGM SCHEDULE

MARK	DESCRIPTION
D1	½" PLYWOOD SHEATHING, UNBLOCKED, NAILED TO FRAMING MEMBERS W/ 2½" NAILS @ 6" O/C AT PANEL EDGES, DRAG STRUTS AND EXTERIOR WALLS & 12" O/C OVER INTERMEDIATE FRAMING MEMBERS
D2	½" PLYWOOD SHEATHING, WITH PANEL EDGES FULLY BLOCKED, NAILED TO FRAMING MEMBERS W/ 2½" NAILS @ 4" O/C AT PANEL EDGES, DRAG STRUTS AND EXTERIOR WALLS & 12" O/C OVER INTERMEDIATE FRAMING MEMBERS
D3	⅝" PLYWOOD SHEATHING, UNBLOCKED, NAILED TO FRAMING MEMBERS W/ 2½" NAILS @ 6" O/C AT PANEL EDGES, DRAG STRUTS AND EXTERIOR WALLS & 12" O/C OVER INTERMEDIATE FRAMING MEMBERS
D4	⅝" PLYWOOD SHEATHING, WITH PANEL EDGES FULLY BLOCKED, NAILED TO FRAMING MEMBERS W/ 2½" NAILS @ 2" O/C AT PANEL EDGES, DRAG STRUTS AND EXTERIOR WALLS & 12" O/C OVER INTERMEDIATE FRAMING MEMBERS

NOTE:
1. REFER TO GENERAL NOTES FOR TIMBER FRAMING AND NAIL SPECIFICATIONS

TIMBER BEAM SCHEDULE

MARK	DESCRIPTION	GRADE
B1	2x8	SPF
B2	2x10	SPF
B3	1¾"x9½" SCL	2.0E
B4	1¾"x11⅞" SCL	2.0E
B5	1¾"x16" SCL	2.0E

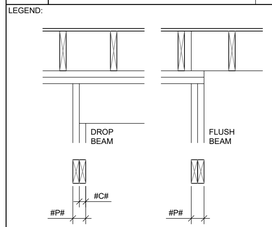
LEGEND:
#B1F
NUMBER OF PLIES
BEAM SIZE
DENOTES FLUSH BEAM

NOTE:
1. ALL BEAMS DROPPED UNLESS NOTED OTHERWISE
2 ALL UNLABELLED BEAMS ARE 2-PLY 2x10
3. REFER TO GENERAL NOTES FOR TIMBER FRAMING SPECIFICATIONS

TIMBER POST/CRIPPLE SCHEDULE

POST	DESCRIPTION	CRIPPLE
P1	2x4 SPF#2	C1
P2	2x6 SPF#2	C2

LEGEND:



NOTE:
1. ALL UNLABELLED POSTS SUPPORTING FLUSH BEAMS TO BE 2 PLY
2. ALL UNLABELLED POSTS SUPPORTING DROP BEAMS TO BE 2 PLY W/ 1 STUD AND 1 CRIPPLE
3. REFER TO GENERAL NOTES FOR TIMBER FRAMING SPECIFICATIONS

REVISIONS

ISSUE	DATE	DESCRIPTION	ENG
3	23DEC2021	ADDENDUM #1	KT
2	08DEC2021	BUILDING PERMIT	SK
1	24NOV2021	COORDINATION	SK

ISSUES

sorensen TRILOGY
STRUCTURAL ENGINEERING SOLUTIONS
NANAIMO (250) 585-1360 VICTORIA (778) 265-7360
www.sorensentrilogy.ca

CLIENT: CITY OF PORT ALBERNI

PROJECT: 3075 3RD AVE PORT ALBERNI, B.C.

TITLE: ROOF FRAMING PLAN

DESIGN: SK
DRAFT: KH
CHECK: -
DATE: 01OCT2021
SCALE: AS NOTED
PROJ #: 21-344
SEAL:

S203

Part 1 GENERAL

1.1 RELATED REQUIREMENTS

.1 27 05 13 ETHERNET CAMERA SYSTEMS.

1.2 REFERENCE STANDARDS

.1 ANSI/TIA-568A Commercial Building Telecommunications Standard.

.2 ANSI/TIA 607 Commercial Building Grounding and Bonding Requirements for Telecommunications.

Part 2 PRODUCTS

2.1 SUBMITTALS

.1 Provide shop drawings for cameras prior to ordering.

2.2 Cabling

.1 Network cabling: Belden or Wirewerks, with matching terminal equipment.

2.3 Wireless Access Point

.1 Supplied by owner, installed by this division as indicated by electrical plans.

.2 Data cable home run to data rack is required.

2.4 Data Rack

.1 Supplied by owner, installed by this division as indicated by electrical plans.

Part 3 METHODS

3.1 Cabling

.1 All cabling must meet or exceed the CAT6 ‘certification’ and must be fully compliant with the EIA/TIA structured cabling standards. All cabling certification results along with standard 25-year cabling vendor warranty shall be recorded and provided to the customer in hardcopy. Contractor is responsible for data cable termination and verification.

.2 As set out in the EIA/TIA cabling system administration standard – all cabling and patch panels shall be properly identified and labelled in an orderly fashion.

.3 Data pass through fire separated assemblies shall be installed using fire rated sleeves. Use of fire rated sealant is not approved for low voltage cabling.

.4 Workmanship is to be of high quality, neat and tidy.

.5 Supply and install plates and outlet jacks.

.6 Each data outlet marked on plan with the number of runs. If not marked, assume 2 runs required. Each run CAT6, blue. There is no colour distinction between voice, data or other.

.7 All ethernet cabling run through the ceiling must be plenum rated.

3.2 General Wiring

.1 Connections of conductors to terminal parts shall ensure a tight. conductive connection without damaging the conductors and be made by means of pressure connectors, wire binding screws. or splices to flexible leads.

.2 Conductors shall be connected to devices and to fittings so that tension is not transmitted to joints or terminals.

.3 Wires and cables shall not be placed in such a manner as to prevent access to equipment.

.4 Terminals for more than one conductor shall identified and intended for the purpose.

.5 Conductors under a single terminal shall be of the same gauge and composition.

.6 Terminals shall be marked or color coded where necessary to indicate the correct connections.

.7 At raceway connections to junction boxes and open ends of raceway, the following shall apply.

.1 Conductors shall be protected from abrasion.

.2 Raceway shall be sized and installed in accordance with NFPA 70

.8 Circuit identification shall be within the control panel and enclosures used for wiring connections.

.9 Strain relief shall be provided for wiring leaving control panels and junction boxes not utilizing raceway.

3.3 Dropped Ceilings

.1 In dropped ceiling areas suspend network/tel/tv cables neatly in J hooks above t-bar and run parallel to building grid.

.2 J hook not to be loaded past 50% of manufacturers recommended capacity.

.3 In drop ceiling areas vertical drop into outlet shall be contained within bonded metal conduit extending above T-bar.

3.4 Data Rack

.1 Data rack is located in the storage room as indicated in drawings.

.2 Unless otherwise noted, homerun all data/voice connections to this location.

.3 Supply and install cable tray above data rack. Cable tray to be of sufficient size for all conductors with adequate spare capacity for additional future connections.

.4 Provide sufficient cable to form 1-meter slack droop to tray.

.5 An as built floor plan to be left in the room reflecting the labelling of all structured cabling.

.6 If server / rack is not located in the electrical room then install one 2" non-corrugated conduit between electrical room and LAN room.

.7 Install one 2” non-corrugated conduit between electrical room Telus demark point and data rack.

Part 1 GENERAL

1.1 RELATED REQUIREMENTS

.1 27 05 13 Network Products and Methods.

1.2 REFERENCE STANDARDS

.1 NFPA 731 Standard for the Installation of Premise Security Systems.

.2 UL 2044, Standard for Commercial Closed Circuit Television Equipment.

.3 UL 2802, Standard for Performance Testing of Camera Image Quality.

.4 UL 60065, Standard for Audio, Video, and Similar Electronic Apparatus.

Part 2 PRODUCTS

2.1 SUBMITTALS

.1 Provide shop drawings for related equipment including:

.1 Cameras

.2 Relevant Accessories.

.2 Cabling

.1 Camera systems are hosted by the building local area network. Refer to the related specification governing ethernet networks products and installation.

.3 IP Cameras

.1 Exterior

.1 Product: AXIS M3206-LVE

.2 Conduit mounting base as required.

.2 Interior

.1 Product: AXIS M3066-V c/w AXIS T91A23 Tile Grid Ceiling Mount

.4 Network Video Recorder

.1 Supplied and installed by owner.

Part 3 INSTALLATION

3.1 System Installation

.1 Installation personnel shall be experienced in the installation, inspection and testing of premisses security systems.

.2 All equipment shall be installed in accordance with manufacturers instructions.

3.2 Cabling

.1 Camera systems are hosted by the building local area network. Refer to the related specification governing ethernet networks products and installation.

3.3 Cameras

.1 Install cameras at designated locations, connected to local area network, DCHP IP assignment by router.

.2 Camera installation is to mitigate effects of ice, rain, wind, temperature extremes and other environmental factors.

.3 Point of local area network connection shall not be easily accessible to the public.

.4 Adjust camera aim, zoom and focus as necessary.

.5 Avoid aiming camera directly into the sun, or backlighting of sufficient intensity to affect image quality.

.6 If the installation location cannot avoid backlighting leading to image quality issues then the camera is to be equipped with automatic exposure compensation or be of a high dynamic range type.

.7 Mounting bolts into building membrane must be gasketed to prevent moisture ingress.

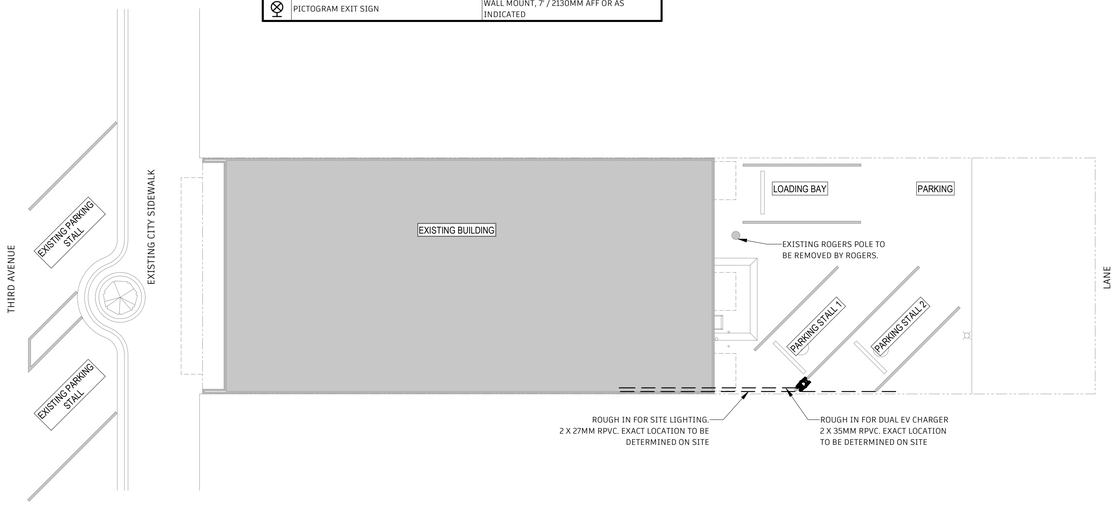
END OF SPECIFICATION

SHEET LIST

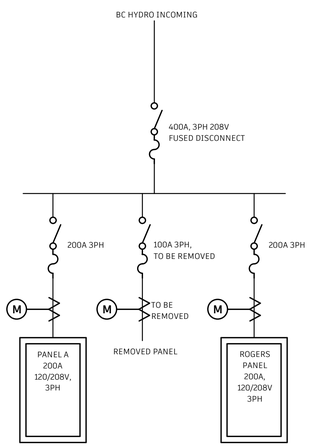
SHEET	SHEET NAME
E01	SITE PLAN
E02	FIRST FLOOR POWER / SYSTEMS & LIGHTING
E03	SECURITY AND SCHEDULES

SYMBOL LEGEND

	DESCRIPTION	TYPICAL MOUNTING HEIGHT
S	SPEAKER	CEILING, RECESSED
DO	CEILING MOUNT DATA OUTLET (#RUNS INDICATED)	CEILING MOUNTED
WX	WIRELESS ACCESS POINT	CEILING MOUNTED
	WALL MOUNT DATA OUTLET (#RUNS INDICATED)	18" / 450MM AFF OR AS NOTED
	WALL MOUNT TELEPHONE OUTLET (ANALOG)	18" / 450MM AFF OR COUNTER HEIGHT
	EMERGENCY LIGHTING BATTERY WITH LIGHTS	WALL MOUNTED, HEIGHT TO SUIT LOCATION BUT NOT TO EXCEED 80 INCH / 2130MM
	DUPLEX RECEPTACLE	18" / 450MM AFF UNLESS OTHERWISE INDICATED
	GROUND FAULT RECEPTACLE	18" / 450MM AFF UNLESS OTHERWISE INDICATED
	WEATHERPROOF GROUND FAULT RECEPTACLE	18" / 450MM AFF UNLESS OTHERWISE INDICATED
	AC POWER CONNECTION POINT	APPROPRIATE FOR SPECIFIC CONNECTION
	208V RECEPTACLE	18" / 450MM AFF UNLESS OTHERWISE INDICATED
OS	LINE VOLTAGE CEILING MOUNT OCCUPANCY SENSOR	CEILING MOUNTED
	12V REMOTE DUAL BACKUP LIGHT	WALL MOUNT, 7' / 2130MM AFF OR AS INDICATED
	PICTOGRAM EXIT SIGN	WALL MOUNT, 7' / 2130MM AFF OR AS INDICATED



1 SITE PLAN
1" = 10'-0"



2 ONE-LINE DIAGRAM

CEC LOAD CALCULATION:

CEC AREA LOAD:	10.4KW
HEAT PUMPS / HVAC:	31.1KW
RANGE	6KW
EV CHARGE:	6.2KW
HOT WATER TANK @ 75% DEMAND:	2.3KW
TOTAL LOAD (CONSIDERED CONTINUOUS):	56KW
AMP DRAW (120/208V THREE PHASE):	155.4A
RECOMMENDED SERVICE SIZE:	200A

NOTES AND SPECIFICATIONS

1. GENERAL
   1. THESE DRAWINGS ARE NOT INTENDED TO BE EXHAUSTIVELY COMPLETE, AND ARE DIAGRAMMATIC IN NATURE. THE INTENTION IS TO INDICATE SYSTEMS AND THEIR FUNCTION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) ALL EQUIPMENT, MATERIALS, LABOUR, AND SERVICES NECESSARY TO FORM COMPLETE AND OPERATING SYSTEMS.
   2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE WORK AND THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT PRICE.
   3. ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF ANY AUTHORITY HAVING JURISDICTION AND THE AUTHORITY SHALL BE NOTIFIED OF THE WORK, IN ADVANCE OF ANY WORK BEING PERFORMED, AND AS REQUIRED WHILE THE WORK IS BEING PERFORMED.
   4. COPIES OF ALL INSPECTION REQUESTS SHALL BE PROVIDED TO THE ENGINEER AT THE TIME OF SUBMISSION TO THE INSPECTION AUTHORITY. COPIES OF ALL INSPECTION REPORTS ISSUED BY THE AUTHORITY SHALL BE SUBMITTED TO THE ENGINEER WITHIN 24 HOURS OF ISSUE.
   5. IF ANY ASPECT OF THE DRAWINGS IS FOUND TO BE IN CONFLICT WITH THE REQUIREMENTS OF ANY AUTHORITY, THEN THE REQUIREMENTS OF THE AUTHORITY SHALL GOVERN.
   6. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE SITE AND SHALL BECOME AWARE OF EXISTING CONDITIONS, SERVICES, AND SYSTEMS PRIOR TO COMMENCING WORK OR ORDERING MATERIALS, AND SHALL NOTIFY THE ENGINEER OF ANY SITE CONDITIONS THAT MAY AFFECT THE WORK
   7. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, CIVIL AND OTHER RELEVANT DRAWINGS.
   8. THE ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR WITH THE WORK OF ALL OTHER TRADES, AND SHALL COORDINATE THE ELECTRICAL WORK SO THAT IT DOES NOT DAMAGE ANY EXISTING WORK AND SO THAT IT DOES NOT DELAY OR INHIBIT THE WORK OF OTHERS.
   9. ANY WORK (EXISTING OR NEW) DAMAGED BY THE ELECTRICAL CONTRACTOR, OR THEIR SUBCONTRACTORS, SHALL BE MADE GOOD AT NO ADDITIONAL COST TO THE OWNER.
   10. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER BY ELECTRONIC MAIL WHERE SHOP DRAWINGS DESCRIBE COMMERCIAL PRODUCTS WITH VARIABLE CONFIGURATIONS OR OPTIONS THEN THE DRAWINGS MUST CLEARLY INDICATE WHICH CONFIGURATION AND OPTIONS WILL BE INSTALLED. NO EQUIPMENT IS TO BE ORDERED UNTIL SHOP DRAWINGS ARE APPROVED.
   11. CHECK ALL DIMENSIONS ON SITE BEFORE ORDERING OR PLACING MATERIAL, TO ENSURE THAT LENGTHS, SIZE, ETC. OF NEW MATERIALS/EQUIPMENT ARE COMPATIBLE WITH SITE CONDITIONS.
   12. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, EQUIPMENT, TOOLS, AND WORK COMPLETE OR IN PROGRESS UNTIL SUBSTANTIAL COMPLETION ACCEPTANCE BY THE ENGINEER. ANY MATERIAL OR WORK LOST, STOLEN, OR DAMAGED PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE SHALL BE REPLACED OR REDONE AT NO ADDITIONAL COST TO THE OWNER
   13. FOR ANY CONTEMPLATED CHANGE TO THE WORK A CONTEMPLATED CHANGE NOTIFICATION (CCN) SHALL BE ISSUED. IN RESPONSE, THE CONTRACTOR SHALL SUBMIT A PRICE TO THE ENGINEER FOR CONSIDERATION. THE PRICE SHALL BE DETAILED, SHOWING MATERIAL (MATERIAL QUANTITIES, UNIT COSTS, AND EXTENDED COST), LABOUR (LABOUR QUANTITIES, UNIT COSTS AND EXTENDED COSTS), OVERHEAD, PROFIT, AND TAXES. NO WORK THAT WILL CAUSE A CHANGE TO THE PROJECT COST SHALL BE COMMENCED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
   14. THE ELECTRICAL CONTRACTOR SHALL TEST ALL SYSTEMS TO ENSURE PROPER OPERATION. WHERE PRACTICAL ALL TESTING SHALL BE DONE ON THE SAME DAY, AND THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE AND GIVEN THE OPPORTUNITY TO OBSERVE. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A LETTER TO THE ENGINEER ATTESTING TO THE PROPER OPERATION OF ALL SYSTEMS AND SHALL NOT CONSIDER THE WORK COMPLETE UNTIL ACCEPTED BY THE ENGINEER.
   15. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL NEW EQUIPMENT, MATERIALS, AND ASSOCIATED LABOUR FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
   16. ONE SET OF DRAWINGS ("THE RECORD DRAWINGS") SHALL BE KEPT FOR THE SOLE PURPOSE OF SHOWING CHANGES TO THE WORK OR DEVIATION FROM THE WORK SHOWN ON THE TENDER DRAWINGS. THE CHANGES SHALL BE RECORDED NEATLY AND LEGIBLY AND SHALL BE PROVIDED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
   17. AN ELECTRICAL MAINTENANCE MANUAL SHALL BE PROVIDED TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
      A. THE MANUAL SHALL HAVE A HARD COVER, THREE-RING OR POST TYPE BINDING, WITH LARGE BLOCK LETTERS ON THE FRONT SHOWING: PROJECT NAME/DATE/ELECTRICAL MAINTENANCE MANUAL"
      B. THE MANUAL SHALL CONTAIN A LETTER OF WARRANTY, A COPY OF "AS-BUILT" DRAWINGS, THE ELECTRICAL EQUIPMENT SHOP DRAWINGS, AND ANY INFORMATION REQUIRED FOR THE MAINTENANCE AND OPERATION OF ALL NEW ELECTRICAL EQUIPMENT.
      C. FOR SMALL PROJECTS PROVIDE ONE HARD COPY AND ONE ELECTRONIC COPY ON USB STICK. FOR LARGE PROJECTS (ELECTRICAL VALUE EXCEEDING $300K) PROVIDE TWO HARD COPY MANUALS.
   18. ALL DISCONNECTS, STARTERS, SWITCHES, PANEL, ETC. SHALL BE IDENTIFIED WITH LAMICOID 3MM THICK PLASTIC ENGRAVED NAMEPLATES, WITH BLACK FACE AND WHITE LETTERING. THE LETTERING SHALL BE 3MM HIGH MINIMUM AND SHALL BE 5MM HIGH WHERE SPACE PERMITS.
   19. PANELS SHALL HAVE TYPE WRITTEN DIRECTORIES, CLEARLY IDENTIFYING THE LOAD OF EACH CIRCUIT.
   20. PROVIDE 72 HOURS NOTICE TO THE OWNER AND ENGINEER THAT THE WORK IS SUBSTANTIALLY COMPLETE AND THAT A SITE REVIEW IS REQUESTED.
   21. AFTER ACCEPTANCE OF THE WORK BY THE ENGINEER, THE CONTRACTOR SHALL DEMONSTRATE AND EXPLAIN THE OPERATION AND MAINTENANCE OF ALL SYSTEMS TO THE OWNER. THE RECORD DRAWING SHALL BE REVIEWED WITH THE OWNER AND SHALL BECOME THE PROPERTY OF THE OWNER.

2. BASIC MATERIALS AND METHODS
   1. ALL EQUIPMENT SHALL BE NEW AND SPECIFICALLY INTENDED FOR THE PURPOSE USED UNLESS OTHERWISE STATED.
   2. PRODUCTS OTHER THAN THOSE SPECIFIED WILL BE CONSIDERED, UNLESS SPECIFICALLY STATED OTHERWISE. SHOULD ANY BIDDER PROPOSE TO USE MATERIALS OR EQUIPMENT OTHER THAN THAT SPECIFIED OR SHOWN ON THE DRAWING, THEN A REQUEST TO USE THE ALTERNATE SHALL BE SUBMITTED TO THE ENGINEER NO LATER THAN 96 HOURS BEFORE THE TENDER CLOSES. THE RESPONSIBILITY FOR DEMONSTRATING EQUALITY OR SUPERIORITY OF PROPOSED ALTERNATES REST WITH THE PROPONENT OF THE PROPOSED ALTERNATE, AND ALL MATERIALS NEEDED TO DETERMINE EQUALITY OR SUPERIORITY SHALL BE INCLUDED WITH THE SUBMISSION. THE DETERMINATION OF THE ENGINEER SHALL BE FINAL.
   3. ALTERNATE REQUESTS MUST BE SUBMITTED THROUGH THE TENDERING AGENCY / GENERAL CONTRACTOR. DIRECT SUBMISSION TO THE ENGINEER NOT ACCEPTED, AND SUPPLIERS OF THE ALTERNATE PRODUCTS SHALL BE APPROVED BY THE TENDERING AGENCY / GENERAL CONTRACTOR PRIOR TO ENGINEERS EVALUATION OF THE PRODUCTS.
   4. ANY PRODUCT THAT IS INSTALLED WHICH IS NOT IN COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS AND WHICH HAS NOT BEEN APPROVED THROUGH THE PRECEDING PROCESS SHALL, IF SO DIRECTED BY THE ENGINEER, BE REMOVED AND REPLACED WITH THE SPECIFIED PRODUCT AT NO COST TO THE OWNER.
   5. ALL WORKMANSHIP SHALL BE OF "HIGH QUALITY". ALL EQUIPMENT AND DEVICES SHALL BE LEVEL AND SHALL ALIGN VERTICALLY OR HORIZONTALLY. ALL WIRING SHALL BE INSTALLED PERPENDICULAR OR HORIZONTAL TO ARCHITECTURAL ELEMENTS.
   6. ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
   7. ALL EQUIPMENT SHALL BE SECURELY MOUNTED, OR SEISMICALLY RESTRAINED AS REQUIRED BY THE BRITISH COLUMBIA BUILDING CODE.

3. DISTRIBUTION, PROTECTION, AND WIRING METHODS.
   1. WIRE NO 10 AND SMALLER SHALL BE COPPER, SOLID, UNLESS OTHERWISE INDICATED. IF LARGER THAN #10, THEN THEY ARE TO BE STRANDED.
   2. CONDUIT SHALL BE EMT OR RPVC UNLESS OTHERWISE INDICATED. ENT PERMITTED IN SUSPENDED SLABS.
   3. USE OF NMD ALLOWED WHERE PERMITTED BY CODE.
   4. RECEPTACLES TO BE BLACK, DECORA TYPE WITH STAINLESS PLATE. USB RECEPTACLES TO HAVE USB TYPE-A AND TYPE-C PORTS, LEVITON T5633 OR EQUIVALENT.
   5. RECEPTACLES TO BE LABELLED WITH PANEL AND CIRCUIT NUMBER.
   6. OUTLET LOCATIONS AND MOUNTING HEIGHTS SHALL BE CONFIRMED WITH THE PROJECT COORDINATOR ON SITE PRIOR TO INSTALL.
   7. NEW ELECTRICAL PANEL TO BE SQUARE D NQ SERIES OR APPROVED ALTERNATIVE.

4. UTILITY COORDINATION
   1. ONCE AWARDED THE CONTRACT FOR THIS PROJECT THE ELECTRICAL CONTRACTOR SHALL ASSUME COORDINATION RESPONSIBILITY WITH RELEVANT UTILITY COMPANIES, I.E. BC HYDRO, TELUS, AND/OR SHAW. THIS ENGINEER WILL SUPPORT THE PROCESS AS REQUIRED.
   2. CONTRACTOR TO CARRY COST OF POLE HOLD AND ANY MATERIALS REQUIRED FOR BUILDING POWER SUPPLY NOT PROVIDED BY BC HYDRO.
   3. OWNER WILL CARRY BC HYDRO DIRECT COSTS.

5. FIRESTOPPING AND FIRE RATED ASSEMBLIES
   1. FIRE-STOPPING OF PENETRATIONS IN FIRE RATED SURFACES CAUSED BY ELECTRICAL INFRASTRUCTURE IS THE RESPONSIBILITY OF THIS DIVISION.
   2. PROVIDE ELECTRICAL CONSULTANT WITH 48 HOUR'S NOTICE PRIOR TO CONCEALING ANY FIRE-STOPPING WORK.
   3. OUTLET BOXES: METAL OR UL LISTED ELECTRICAL BOXES RATED APPROPRIATELY FOR THE FIRE SEPARATION (E.G. "CLASS 1 HR W") ARE TO BE USED IN FIRE RATED ASSEMBLIES.
   4. AVOID INSTALLING OUTLET BOXES ON OPPOSITE SIDES OF FIRE SEPARATION IN SAME STUD CAVITY. IF THIS REQUIREMENT CANNOT BE ACHIEVED THEN BOXES MUST BE EQUIPPED WITH INTUMESCENT PUTTY PADS, HITLI CPS-P PA OR EQUAL.

6. NETWORK AND STRUCTURED WIRING
   1. REFER TO SPECIFICATION 27 05 13 NETWORKING PRODUCTS AND METHODS SPECIFICATIONS AND SPECIFICATION 27 05 13 ETHERNET CAMERA SYSTEM SPECIFICATIONS FOR FULL DETAILS.
   2. CORE NETWORK INFRASTRUCTURE IS PART OF THE CONTRACTOR SCOPE OF WORK.
   3. INSTALL NETWORK CONNECTIONS WHERE INDICATED.
   4. HOME RUN ALL NETWORK CONNECTIONS TO THE STORAGE ROOM DATA RACK.
   5. ELECTRICAL DIVISION TO PULL CABLING.
   6. DATA OUTLETS FINISHED WITH STAINLESS PLATES.

7. LIGHTING AND CONTROLS
   1. LIGHTING CONTROLS ARE TO ASHRAE 90.1 REQUIREMENTS, AS ADOPTED BY THE BC BUILDING CODE. AS SUCH, ALL LIGHTS MUST BE UNDER EITHER TIMER OR SENSOR CONTROL. REFER TO CONTROL DIAGRAMS.
   2. INTERIOR LIGHT FIXTURES FINISH/TRIM WHITE UNLESS OTHERWISE NOTED.
   3. EXTERIOR LIGHT FIXTURES FINISH/TRIM BLACK UNLESS OTHERWISE NOTED.
   4. ALTERNATE PRODUCT SUBMISSIONS FOR LIGHTING CONTROLS WILL NOT BE ACCCEPTED.
   5. LIGHTING CONTROL CABLES IN SAME RACEWAY OR IN CONTACT WITH A/C CABLES MUST CARRY INSULATION RATINGS EXCEEDING THE A/C VOLTAGE.
   6. ALL LIGHT SWITCHES SHALL BE BLACK WITH STAINLESS PLATE.

8. EXIT SIGNS AND BACKUP LIGHTS
   1. EXIT SIGNS ARE REQUIRED BY CODE AND SHALL BE ILLUMINATED BATTERY BACKED UP PICTOGRAM STYLE.
   2. INSTALL DUAL REMOTE HEADS WHERE INDICATED. INSTALL BATTERY UNIT IN THE ELECTRICAL ROOM. SUPPLY POWER FROM LIGHTING CIRCUIT.
   3. REFER TO SCHEDULE FOR BATTERY, EXIT SIGN, AND EMERGENCY LIGHTING PART NUMBERS.

9. DEMOLITION
   A. EXISTING LIGHTING TO BE REMOVED.
   B. REMOVE ALL EXISTING ELECTRICAL DEVICES AND WIRING. WIRING TO BE REMOVED BACK TO SUPPLY PANEL.
   C. EXISTING CONDUIT TO BE REMOVED WHERE PRACTICAL.

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PROJECT:
PORT ALBERNI COMMUNITY SAFETY CENTRE

ADDRESS:
3075 THIRD AVE, PORT ALBERNI BC, V9Y 2A4

CLIENT:
CITY OF PORT ALBERNI

DESIGNED BY: MJA
DRAWN BY: BSL
SCALE: As indicated

REVISION HISTORY

A	I.F. Review	Oct. 4, 2021
B	Reissue For Review	Nov. 2, 2021
C	I.F. Building Permit	Nov. 19, 2021
D	I.F. Tender	Dec. 23, 2021

REVISION:D

SEAL:
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA B. C. MUIR # 31333
2021.12.23
Muir Engineering Ltd
PTP# 1001549

SHEET TITLE:
SITE PLAN

Project Number: 2175

SHEET E01 OF 3

TAGS

A-22,24	CIRCUIT TAG: PANEL-CIRCUIT
SL24	LIGHT FIXTURE: ID
A	SHEET NOTE (SEE SCHEDULE)

SHEET NOTES E02

NOTE	INSTRUCTION
A	PROJECTOR. CAT6 CABLE TO ROUTER AND DUAL HDMI FROM LOCATION SHOWN BY NOTE B. HDMI TO BE RUN IN 1" ENT.
B	DUAL HDMI CONNECTION TO PROJECTOR (SEE NOTE A).
C	EXTERIOR DATA TO BE ROUGH IN ONLY FOR FUTURE SECURITY CAMERAS.
D	LIGHT SWITCHES IN THIS LOCATION ARE FOR CONTROL OF EXTERIOR LIGHTS, FOYER LIGHTS AND CORRIDOR/RECEPTION LIGHTS. SEE LIGHTING CONTROL DIAGRAMS FOR PART NUMBERS.
E	POE SPEAKER PROVIDED BY OWNER. CAT6 DATA CONNECTION REQUIRED.
F	DATA AND POWER RECEPTACLES FOR TV SHALL BE MOUNTED IN A RECESSED WALL BOX. MOUNTING HEIGHT AT 60" AFF.
G	ORDER ONE ADDITIONAL TYPE A2 FIXTURE FOR FUTURE.
H	ORDER ONE ADDITIONAL TYPE S1 FIXTURE FOR FUTURE.

LIGHTING FIXTURE SCHEDULE

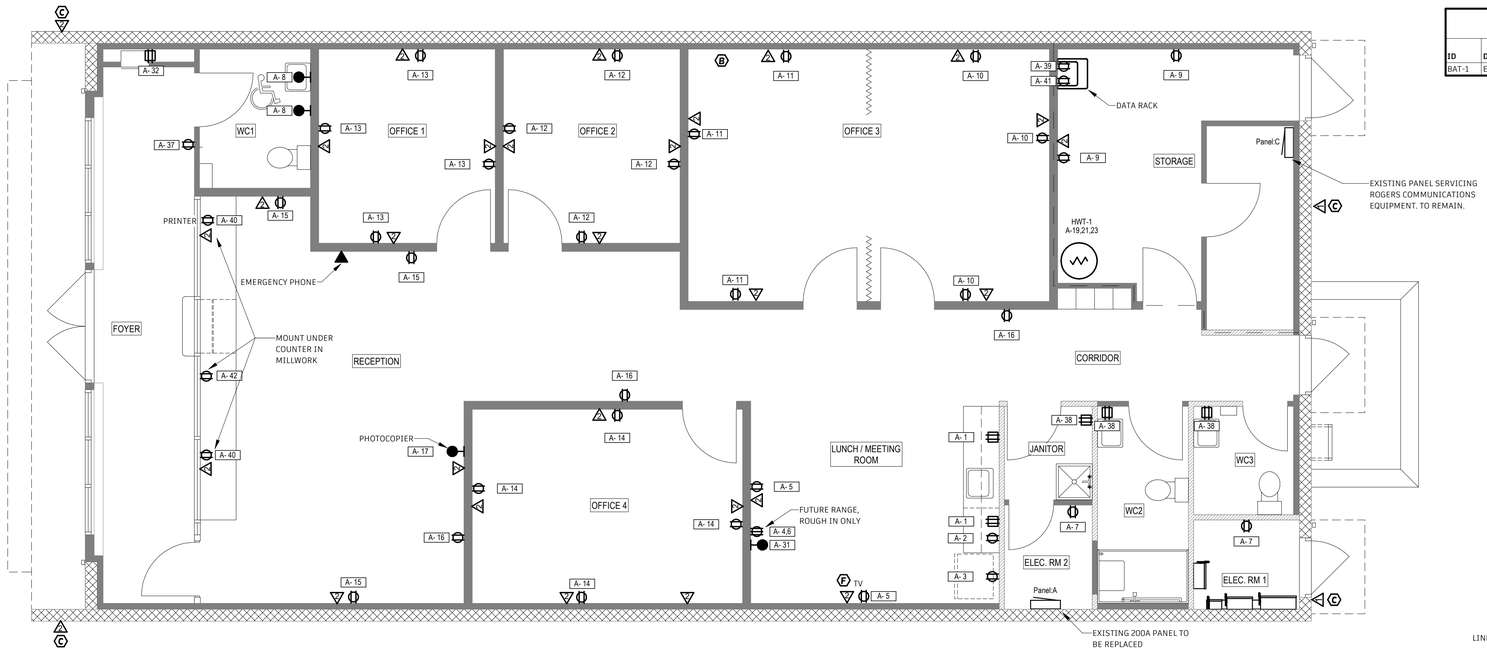
ID	DESCRIPTION	MOUNTING	VOLTAGE	LOAD	LUMENS	MANUFACTURER	MODEL	FINISH	COUNT
A1	2'X4' LED TROFFER,	CEILING, RECESSED	120 V	39 W	5000 lm	EATON LIGHTING	24CZ2-50HE-UNV-L92765-W2A1	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	4
A2	2'X4' LED TROFFER,	CEILING, RECESSED	120 V	27 W	3500 lm	EATON LIGHTING	24CZ2-35HE-UNV-L92765-W2A1	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	5
B1	2'X2' LED TROFFER,	CEILING, RECESSED	120 V	26 W	4400 lm	EATON LIGHTING	22CZ2-44HE-UNV-L92765-W2A1	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	8
B2	2'X2' LED TROFFER	CEILING, RECESSED	120 V	26 W	3400 lm	EATON LIGHTING	22CZ2-34HE-UNV-L92765-W2A1	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	17
BL2	12V REMOTE DUAL BACKUP LIGHT	WALL MOUNT, 7' / 2130MM AFF OR AS INDICATED	12 V	10 W		AIMLITE	RMSM2-06-12V5WLJWHT		8
R1	6" ROUND DOWNLIGHT	CEILING, RECESSED	120 V	33 W	2200 lm	LITELINE	RA56-33	RECESSED LIGHTING MOUNTED IN CEDAR SOFITS FINISH/TRIM TO BE BLACK	7
R2	4" COLOUR SELECTABLE ROUND DOWNLIGHT	CEILING, RECESSED	120 V	14 W	1200 lm	EATON LIGHTING	LCR4129FSEO10MW	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	4
S1	8' LED STRIP LIGHT - LENSED	CEILING, SURFACE	120 V	61 W	7630 lm	EATON LIGHTING	8TSNLED-LD5-74SL-LW-UNV-L8xx-CD1-U	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	1
S2	4' LED STRIP LIGHT - LENSED	CEILING, SURFACE	120 V	35 W	4210 lm	EATON LIGHTING	4SNLED-LD5-41SL-LW-UNV-L8xx-CD1-U	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	3
S3	2' LED STRIP LIGHT - LENSED	CEILING, SURFACE	120 V	21 W	2450 lm	EATON LIGHTING	2SNLED-LD5-23SL-LW-UNV-L8xx-CD1-U	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	1
T	GOOSENECK AREA LIGHT	WALL, SURFACE	120 V	20 W	560 lm	ABOVE ALL LIGHTING	TPT-D-35W	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	1
V	24" LED VANITY	WALL, SURFACE	120 V	21 W	1746 lm	MODERN FORMS	WS-21724	REFER TO GENERAL NOTES FOR FINISH/TRIM DETAILS	3
X	PICTOGRAM EXIT SIGN	WALL MOUNT, 7' / 2130MM AFF OR AS INDICATED	120 V	2 W		AIMLITE	RPSTUMWHT-BAT		3

BACKUP LIGHTING BATTERIES

ID	DESCRIPTION	LOCATION	CAPACITY (WATTS FOR 1/2 HOUR RUN)	TOTAL CONNECTED (W)	TOTAL CONNECTED (AMPS)	MANUFACTURER	MODEL
BAT-1	EMERGENCY LIGHTING BATTERY WITH LIGHTS	ELECTRICAL ROOM 2	90 W	80 W	7 A	AIMLITE	EBST12100-2SMSWLJWHT/NLC

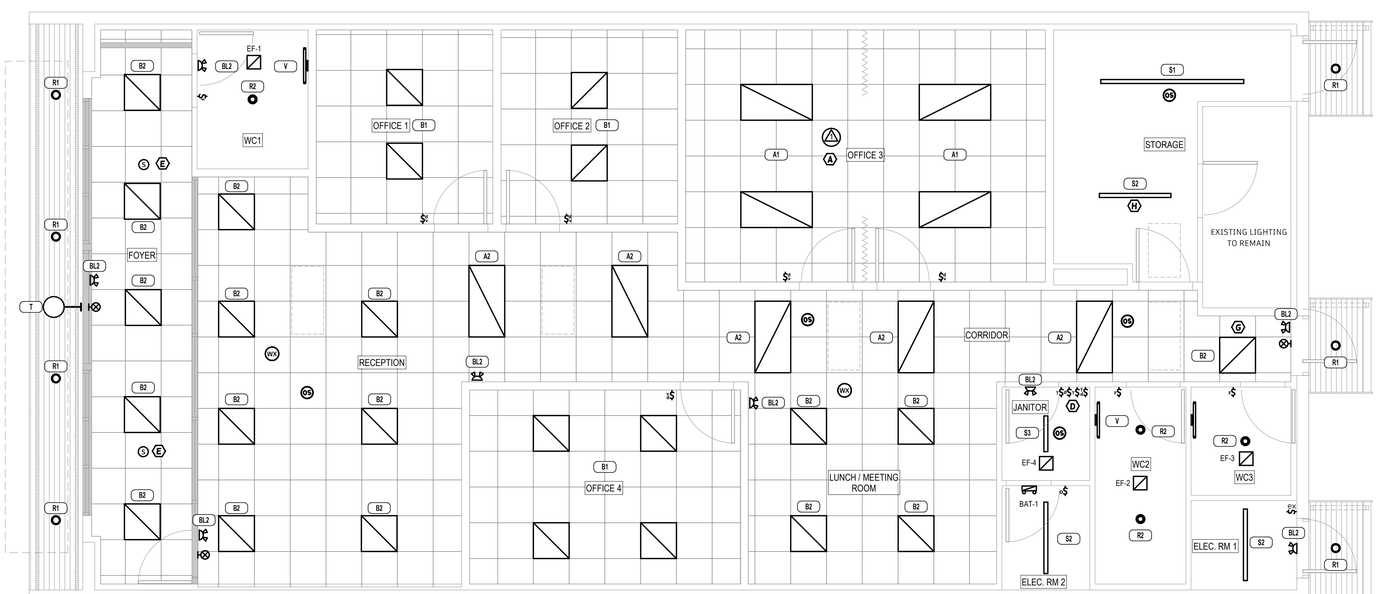
LIGHT SWITCH SYMBOL LEGEND

	DESCRIPTION	TYPICAL MOUNTING HEIGHT	Manufacturer	Model
$P	DIMMING CONTROL, 0-10V	48" / 1200MM AFF UNLESS NOTED	LEVITON	IP710-LFZ
$	LIGHT SWITCH, DECORA	48" / 1200MM AFF UNLESS NOTED	LEVITON	5601-P2W
$P	OCCUPANCY SENSING SWITCH, DUAL OUTPUT FOR FAN CONTROL	48" / 1200MM AFF UNLESS NOTED	COOPER	GREENGATE ONW-D NEOSWITCH
$P	OCCUPANCY SENSING SWITCH, PIR	48" / 1200MM AFF UNLESS NOTED	LEVITON	OSD15-1DW
$P	TIMER CONTROL, ASTRONOMICAL (BLUETOOTH CONFIGURED)	48" / 1200MM AFF UNLESS NOTED	LEVITON	DDS15
$P	TIMER CONTROL, DIMMING, 0-10V (BLUETOOTH CONFIGURED)	48" / 1200MM AFF UNLESS NOTED	LEVITON	DD710-BD
$P	VACANCY SENSING SWITCH, DUAL TECH, 0-10V DIMMING	48" / 1200MM AFF UNLESS NOTED	LEVITON	ODD10-1DW



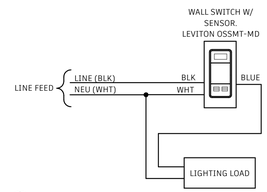
1 MAIN FLOOR - POWER AND SYSTEMS

1/4" = 1'-0"

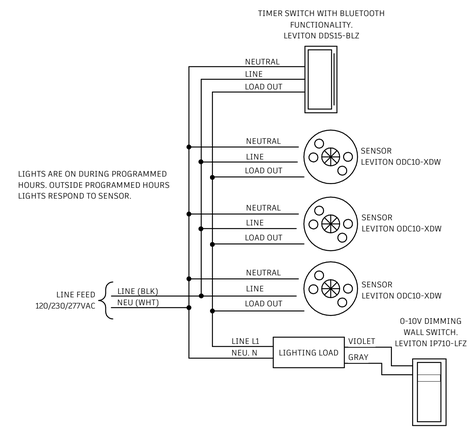


2 MAIN FLOOR - LIGHTING AND CEILING

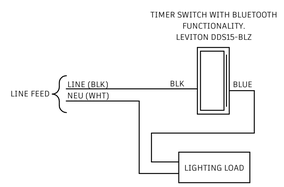
1/4" = 1'-0"



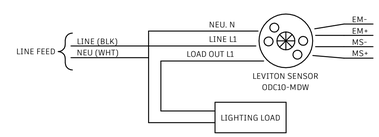
7 LIGHTING CONTROLS - WASHROOMS



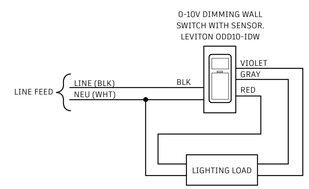
8 LIGHTING CONTROLS - RECEPTION, LUNCH ROOM, CORRIDOR



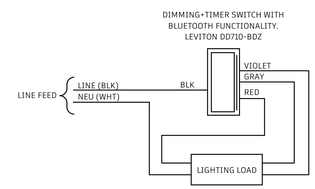
9 LIGHTING CONTROLS - EXTERIOR



6 LIGHTING CONTROLS - STORAGE ROOM/JANITOR



3 LIGHTING CONTROLS - OFFICES



4 LIGHTING CONTROLS - FOYER

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REVISION HISTORY

A	I.F. Review	Oct. 6, 2021
B	Reissue For Review	Nov. 2, 2021
C	I.F. Building Permit	Nov. 19, 2021
D	I.F. Tender	Dec. 23, 2021

REVISION:D

SEAL:

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA B. C. MUIR # 31323 2021-12-23

Muir Engineering Ltd PTP# 1001549

SHEET TITLE:

FIRST FLOOR POWER / SYSTEMS & LIGHTING

Project Number: 2175

SHEET E02 OF 3

SECURITY SYMBOL LEGEND

	DESCRIPTION	TYPICAL MOUNTING HEIGHT
MS	MOTION SENSOR	CEILING MOUNTED
	SECURITY CAMERA (DOME)	CEILING MOUNTED
	SECURITY SMOKE DETECTOR	CEILING MOUNTED
D	DOOR TAG - SEE TABLE	
	SECURITY PANEL	60" / 1500MM AFF
C	DOOR CONTROL CARD READER	54" / 1400MM AFF
MS	MOTION SENSOR TO SECURITY SYSTEM	6'10" / 2100MM AFF
K	SECURITY KEYPAD	54" / 1400MM AFF

Panel: A

Location: ELEC. RM 2
Supply From: SWITCH A
Mounting: Surface Mounted
Enclosure: NEMA 1
Notes:

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. RATING: 10KA
225A RATED
MCB 225A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	KITCHEN COUNTER	20 A	1	1500	1000					1	15 A	MICROWAVE	2
3	REFRIGERATOR	15 A	1			700	3000			2	40 A	RANGE	4
5	LUNCH/MEETING RECEPTACLES	15 A	1					400	3000				6
7	ELEC ROOM 1,2 RECEPTACLES	15 A	1	400	1000					1	15 A	POWER CONNECTION	8
9	STORAGE RECEPTACLES	15 A	1			400	900			1	15 A	OFFICE 3 RECEPTACLES	10
11	OFFICE 3 RECEPTACLES	15 A	1					900	1200	1	15 A	OFFICE 2 RECEPTACLES	12
13	OFFICE1 RECEPTACLES	15 A	1	1200	1200					1	15 A	OFFICE 4 RECEPTACLES	14
15	RECEPTION RECEPTACLES	15 A	1			900	600			1	15 A	CORRIDOR RECEPTACLES	16
17	PHOTOCOPIER	15 A	1					500	4798	3	50 A	HEAT PUMP, RTU-1	18
19	HOT WATER TANK	15 A	3	1000	4798								20
21						1000	4798						22
23								1000	4798	3	50 A	HEAT PUMP, RTU-2	24
25	LIGHTS, INTERIOR	20 A	1	1699	4798								26
27	LIGHTS, EXTERIOR	15 A	1			251	4798						28
29	SECURITY PANEL	15 A	1					100	1000	1	20 A	ROOFTOP RECEPTACLES	30
31	RANGE HOOD	15 A	1	500	500					1	15 A	BOTTLE FILLING STATION	32
33	HEAT PUMP, CU-1	15 A	2			1144	3600			2	50 A	EV CHARGING STATION	34
35								1144	3600				36
37	FOYER	15 A	1	500	1200					1	15 A	BATHROOM GFCI	38
39	DATA RACK	15 A	1			750	600			1	15 A	FRONT RECEPTION	40
41	DATA RACK	15 A	1					750	300	1	15 A	FRONT RECEPTION	42
43													44
45													46
47													48
49													50
51													52
53													54
			Total VA:	21292 VA		23196 VA		23245 VA					
			Total Amps:	177 A		196 A		196 A					

SCHEDULE OF MECHANICAL MOTOR LOADS

NOTE 1: DISCONNECT IS TO BE PROVIDED PER CEC 28-600 - 28-604 UNLESS A COMPLIANT MEANS OF DISCONNECT IS INCLUDED WITH THE EQUIPMENT SUPPLIED.

ID	DESCRIPTION	LOCATION	SUPPLY	LOAD	FLA	MCA	MOCP	PANEL	CIRCUIT	DISCONNECT	NOTES
CU-1	HEAT PUMP		208 V/1ø/60 Hz	2288 W	11.0 A	11 A	30 A	A	33,35	REQUIRED, REFER TO NOTE 1	CONTROLS BY MECH
EF-1	FAN		120 V/1ø/60 Hz	120 W	1.0 A	15 A	15 A	A	25	REQUIRED, REFER TO NOTE 1. DISCONNECT TO BE ACCESSIBLE ONLY TO AUTHORIZED USERS.	AC CONTROL SUPPLIED BY MECHANICAL. WIRING BY ELECTRICAL DIVISION.
EF-2	FAN		120 V/1ø/60 Hz	120 W	1.0 A	15 A	15 A	A	25	REQUIRED, REFER TO NOTE 1. DISCONNECT TO BE ACCESSIBLE ONLY TO AUTHORIZED USERS.	AC CONTROL SUPPLIED BY MECHANICAL. WIRING BY ELECTRICAL DIVISION.
EF-3	FAN		120 V/1ø/60 Hz	120 W	1.0 A	15 A	15 A	A	25	REQUIRED, REFER TO NOTE 1. DISCONNECT TO BE ACCESSIBLE ONLY TO AUTHORIZED USERS.	CONTINUOUS RUN or INTERLOCKED WITH SWITCH/SENSOR
EF-4	FAN		120 V/1ø/60 Hz	120 W	1.0 A	15 A	15 A	A	25	REQUIRED, REFER TO NOTE 1. DISCONNECT TO BE ACCESSIBLE ONLY TO AUTHORIZED USERS.	CONTINUOUS RUN
RTU-1	HEAT PUMP		208 V/3ø/60 Hz	14394 W	40.0 A	44 A	50 A	A	18,20,22	REQUIRED, REFER TO NOTE 1	CONTROLS BY MECH
RTU-2	HEAT PUMP		208 V/3ø/60 Hz	14394 W	40.0 A	44 A	50 A	A	24,26,28	REQUIRED, REFER TO NOTE 1	CONTROLS BY MECH

SCHEDULE OF RESISTIVE HEATING AND NON MOTORIZED MECHANICAL

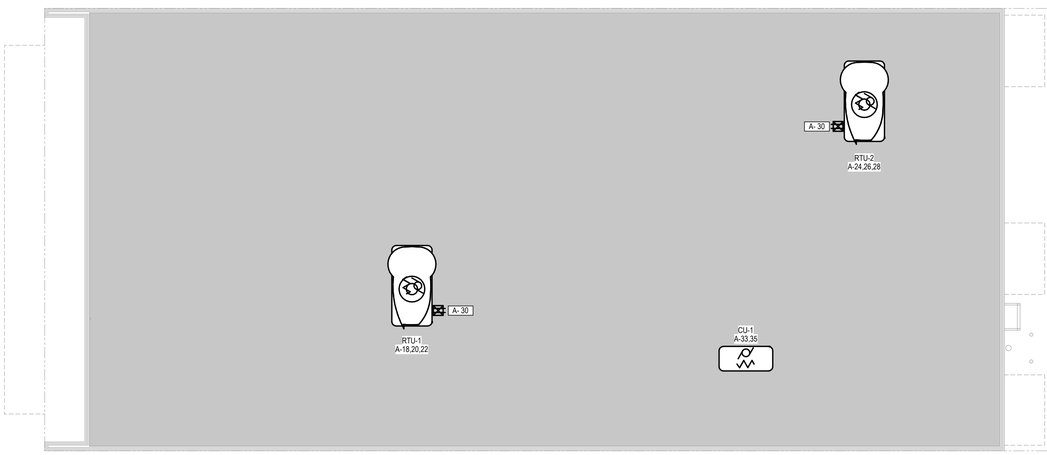
ID	DESCRIPTION	LOCATION	LOAD	PANEL	CIRCUIT	COMMENTS
HWT-1	HOT WATER TANK	STORAGE	3000 W	A	19,21,23	

DOOR ELECTRICAL COMPONENT TABLE

ID	DOOR CONTACTS	ELECTRIC STRIKE	KEY SWIPE IN	KEY SWIPE OUT	MAGNETIC HOLD OPEN	REQUEST TO EXIT	POWER DOOR OPERATOR	OPERATOR CIRCUIT	NOTES
1	●	●	●			●			
2	●	●	●						BUTTON ACCESS TO WASHROOM C/W ACCESS OVERRIDE.
3	●	●	●			●			
14	●	●	●			●			
15	●	●	●			●			

DOOR COMPONENT RESPONSIBLITY TABLE

ITEM	SUPPLY	COMMISIONED	INSTALL	WIRING	COMMENTS
ELECTRIC STRIKE	DOOR	DOOR	DOOR	2C18 CABLE	
KEY SWIPE	ELEC	ELEC	ELEC	5C22 TWISTED IN CONDUIT	
MAG HOLD OPEN	ELEC	ELEC	ELEC	2C18 CABLE	
POWER OPERATOR	DOOR	ELEC	ELEC	2C#12 CABLE	
POWER TRANSFER HINGE	DOOR	ELEC	DOOR	3C18 CABLE	
REQUEST TO EXIT	DOOR	ELEC	ELEC		
WIRELESS DOOR ACCESS HUB	DOOR	DOOR	ELEC	UTP CABLE	
WIRELESS DOOR LOCK	DOOR	DOOR	DOOR	NA	

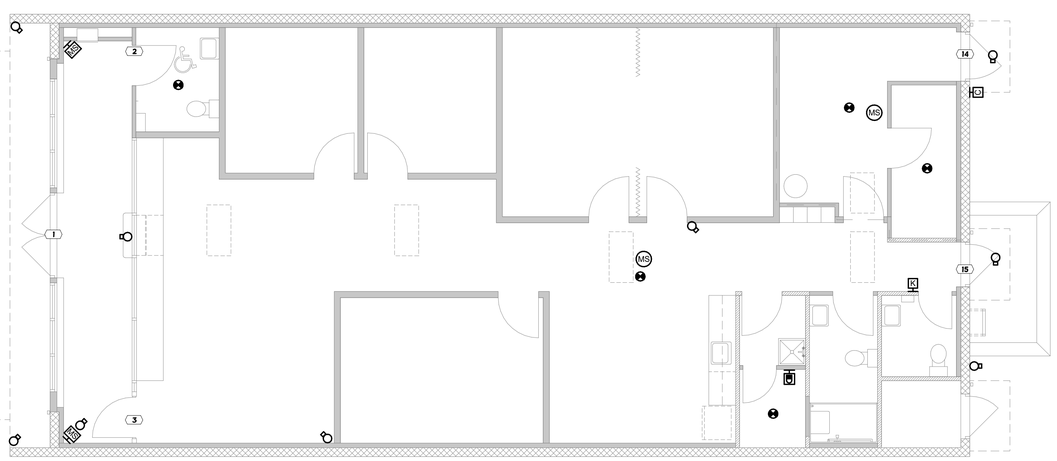


3 ROOF
3/16" = 1'-0"

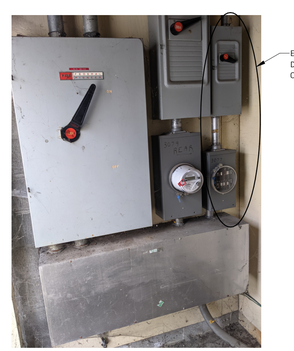
SECURITY SYMBOL LEGEND

	DESCRIPTION	TYPICAL MOUNTING HEIGHT
MS	MOTION SENSOR	CEILING MOUNTED
	SECURITY CAMERA (DOME)	CEILING MOUNTED
	SECURITY SMOKE DETECTOR	CEILING MOUNTED
D	DOOR TAG - SEE TABLE	
	SECURITY PANEL	60" / 1500MM AFF
C	DOOR CONTROL CARD READER	54" / 1400MM AFF
MS	MOTION SENSOR TO SECURITY SYSTEM	6'10" / 2100MM AFF
K	SECURITY KEYPAD	54" / 1400MM AFF

1. SECURITY SYSTEM
   1. CONTRACTOR TO ENGAGE PORTTECH SECURITY FOR ALARM COMMISSIONING.
   2. CONTRACTOR TO COMPLETE WIRING AND MOUNTING OF ALL SECURITY EQUIPMENT.
   3. INSTALL DOOR CONTACTS AT ALL EXTERIOR DOORS WIRED BACK TO SECURITY PANEL LOCATION.
   4. PROVIDE DEDICATED CIRCUIT FOR SECURITY PANEL.
2. CAMERA SYSTEM
   1. CAMERAS SUPPLIED AND INSTALLED BY THIS DIVISION. REFER TO PLAN FOR LOCATIONS.
   2. REFER TO SPECIFICATION "27 05 13 - ETHERNET CAMERA SYSTEMS" FOR CAMERA REQUIREMENTS.



1 MAIN FLOOR - SECURITY
3/16" = 1'-0"



2 ELECTRICAL ROOM 1 - ELEVATION

4 EXTERIOR BUILDING ELEVATION

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PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA B. C. MUIR # 31323
2021-12-23
Muir Engineering Ltd
PTP# 1001549

SHEET TITLE:
SECURITY AND SCHEDULES

Project Number: 2175

SHEET E03 OF 3