TENDER

T-MCC-2103

SHINIMICAS FIRE DEPARTMENT BUILDING

MUNICIPALITY OF COUNTY OF CUMBERLAND

E.D. FULLERTON BUILDING

1395 BLAIR LAKE ROAD

AMHERST N.S B4H 3Y4

CONTACT: Kellie Seaman, Procurement Officer
kseaman@cumberlandcounty.ns.ca

1. TENDER SUBMISSION

Submit completed Tender Form for this project by May 14, 2021 at 2:00 p.m. local time, a sealed envelope clearly marked as follows:

T-MCC-SHINIMICAS FIRE DEPARTMENT BUILDING

MUNICIPALITY OF THE COUNTY OF CUMBERLAND
1395 BLAIR LAKSE ROAD, RR# 6
AMHERST, NS B4H 3Y4

ATTENTION: KELLIE SEAMAN, PROCUREMENT OFFICER

2. TENDER OPENING

Tenders will be opened on May 14, 2021 at the E.D. Fullerton Building, 1395 Blair Lake Rd, immediately following closing at 2:00 pm local time.

3. LIQUIDATED DAMAGES

Below is the expected start date for this tender however this may be subject to change and is therefore presented primarily for guidance.

Expected start date is 2 weeks after the awarding of this contract or sooner.

The Municipality of Cumberland and the successful proponent will agree that, if the Work or portions of the Work, as identified in the Contract documents are not completed substantially as specified in the Contract that the Municipality will suffer damages, which are difficult to identify with precision because of the nature of the project.

The successful proponent and the Municipality agree that a fair pre-estimate of the amount of set damages is two hundred and fifty dollars ($250.00) per calendar day. Therefore, the parties agree that the successful proponent shall pay to the Municipality for each and every calendar day after the identified Contract completion date, the sum of two hundred fifty ($250.00) determined by the parties hereto to be liquidated damages, not a penalty. These damages will be deducted from the contract amount.

Delays caused by or the result of weather conditions or other unexpected conditions not under control of the proponent or Municipality will be deducted from the agreed schedule and will not be subject to liquidated damages.

4. CLARIFICATION AND AGENDA

Notify the Kellie Seaman, Procurement Officer not less than five (5) working days before closing date of any omissions, errors or ambiguities found in these Contract Documents. If the Municipality of the County of Cumberland considers that correction, explanation, or interpretation is necessary; a written addendum will be issued. All addenda will form part of the Contract Documents.

5. REVISION OF TENDER

Revisions shall be submitted only by signed letter delivered to 1395 Blair Lake Rd, Amherst NS, B4H 3Y4 before the closing date and time. Only the bidder's entries on the delivered tender offer may be revised. The revision must state only the amount by which a figure is to be increased or decreased, or specific directions as to the exclusion or inclusion of particular words. The revision shall not include the total bid price.

6. DELIVERY OF TENDER

The properly completed and executed Tender Offer shall be enclosed in a sealed envelope and must be delivered into the possession at the address given in the Information to Tenderer prior to the time and date specified there for the receipt of tender.

7. TENDERERS TO INVESTIGATE

Tenderers will be deemed to have familiarized themselves with the existing working conditions which may affect the performance of the contract. No claims for extra compensation resulting from failure to investigate will be paid.

8. TENDER DEPOSIT

The Tenderer forwards herewith a certified cheque, Bid Bond, or irrevocable letter of credit in the amount of ten percent (10%) of the Contract Price payable to the Municipality of the County of Cumberland and the Tenderer agrees this amount may be forfeited as liquidated damages in the event that the tender is withdrawn after closing or the Tenderer fails to comply with any other provisions of this Tender. The deposit shall be returned to the unsuccessful Tenderer(s) after a Contract has been signed with the successful Tenderer.

The Tenderer understands that ten percent (10%) of each progress claim will be withheld until the work is declared substantially complete.

9. REQUEST FOR TENDER-TERMS AND CONDITIONS:

1. Lowest of any tender not necessarily accepted.

2. FORM – Tenders will not be accepted unless properly signed and submitted on this form. Qualifying clauses or exceptions may result in rejection of the Tender.

3. ERRORS – Tender as received shall be considered final and no tender shall be altered, amended, or withdrawn after the specified closing date.

4. RIGHT TO REJECT – The Municipality reserves the right to reject tenders from any bidder who in the Municipality's reasonable opinion are deemed incapable of providing the necessary labour, materials, equipment, financing, and management resources to perform the work in a satisfactory manner.

5. LATE TENDERS – Tenders received after the specified closing time, as shown on the face of this form, will be rejected and returned.

6. ACCEPTABLE – This offer is irrevocable and shall remain open for acceptance by the Municipality for a period of SIXTY (60) days from the time and date specified for closing of Tenders.

7. COSTS – The bidder acknowledges and agrees that the Municipality of the County of Cumberland will not be responsible for any costs, expenses, losses, damages, or liability incurred by the tender as a result of or arising out of submitting a bid for the proposed contract, or due to the Municipality's acceptance or non-acceptance of their tender.

10. CONDITIONS OF PURCHASE

If this tender is accepted, the following conditions of purchase will apply.

ACKNOWLEDGEMENT/ACCEPTANCE – The vendor shall promptly acknowledge the order. The written acceptance of this order, or delivery of services, or any part thereof, constitutes an acceptance of the entire order and its conditions.

QUALITY – The vendor warrants and agrees that for a period of one year from the date of delivery or performance, the goods or services set out in the order are and shall be supplied or manufactured in a good and workmanlike manner.

11. WARRANTY OF TITLE

Title to all materials and equipment shall be furnished free and clear of all liens, charges, or other encumbrances.

12. LIABILITY

The Bidder acknowledges that he is an independent contractor and shall indemnify, protect, and save harmless the Purchaser, its agents, employees, successors and assigns from any and all damages, liabilities and claims of whatsoever nature arising out of the furnishing by the Vendor, its agents or employees, of the materials covered by this order or incidental or ancillary thereto.

13. SCOPE OF WORK

The Municipality of the County of Cumberland provides funding for 16 fire departments throughout the county with the Shinimicas Fire Department being part of that group.

All aspects of construction will be the responsibility of the successful bidder. This will include but not limited to site work, all concrete placement, wall structures, roof structure electrical, mechanical, drywall, fill, paint, flooring, doors and hardware and all other construction related duties to make the project complete. It will also be the responsibility of the successful bidder to;

1. Provide and maintain sanitary facilities for site personnel.
2. Remove temporary facilities from site when no longer required.
3. Remove all construction and other waste from site
4. Provide all permits and approvals required from regulatory agencies or any authorities having jurisdiction over the construction and operation of the building.

All work must be verified on site and comply to all applicable building codes.

The contractor must get the Municipality's approval of proposed construction procedures and schedules prior to beginning construction.

The truck bay must be completed and available for use on or before November 01, 2021.

The following project documents are attached and will form part of the contract:

- Letter Re: New Shinimicas Fire Hall Design

- Drawings – New Shinimicas Fire Hall
- Drawings – Shinimicas Fire Hall Electrical
- Form of Tender

14. Alternative Construction Type

1. The Municipality is willing to consider alternate steel or concrete construction in the place of timer frame/walls identified in the tender documents. Alternatives to the specified construction types will only be considered during the bidding period in the manner prescribed below:

    a. Alternative construction types will be considered by the Municipality up to eight (8) working days before tender closing.
    b. When a request to consider alternative construction types is made the Municipality may approve the request. The Municipality is not under any obligation to accept requests for alternate construction types.
    c. The submission shall provide sufficient information to enable the Municipality to determine acceptability of such products. These submissions shall include at a minimum:

        i. A concept plan
        ii. Well defined scope
        iii. Design criteria
        iv. Relevant details
        v. Identify all variances from tender drawings and specifications

    d. In submission of alternatives to construction types specified, bidders shall include in their bid, any changes required in the work to accommodate such alternatives. A later claim by the bidder for an addition to the contract price because of changes in work necessitated by use of alternatives shall not be considered. Bidder shall include the cost of design and engineered stamps drawings in their tender price.
    e. Unless alternatives are submitted in this manner and subsequently accepted, bids proposing alternative construction types shall be rejected. The tender shall clearly identify that it is based on alternate construction type and provide sufficient details of the scope.

15. SAFETY CERTIFICATION

1. Submit with Tender a copy of Tenderer’s current and valid Letter of Good Standing issued jointly by the Nova Scotia Construction Safety Association, or a recognized safety certified company such as the Nova Scotia Construction Safety Association, and the Province of Nova Scotia Department of Labor.

2. Out of province companies shall submit, with their Tender, a current and valid Letter of Good Standing from their province of origin or from a recognized Safety Association which utilizes an external audit element.
3. Out of province companies may obtain a Letter of Good Standing from the Nova Scotia Construction Safety Association, or a recognized safety certified company, upon submission of documentation verifying training and compliance with the NS OH&S Act and Regulations
4. In any event, out of province Tenderers will have to satisfy the Municipality in respect to their safety status prior to being awarded a contract.

16. WORKERS' COMPENSATION

A certificate of good standing with the Workers' Compensation Board of Nova Scotia must be provided by the successful bidder prior to execution of the Articles of Agreement.

17. INSURANCE CERTIFICATE

A valid certificate showing at least $5,000,000 liability with the Municipality of the County of Cumberland named under additional insured must be provided by the successful bidder prior to the execution of the Articles of Agreement.

18. CONTRACTOR EXPERIENCE

Bidders must include a corporate overview outlining their experience in the contracting business. Contractor shall indicate the total number of employees required to do the work and the number of local employees to be hired.

19. SUPERVISION AND COMMUNICATION

The contractor will have a project manager on site at all times who is fully qualified to properly direct the project and is experienced with all aspects of the manufacturer's recommendations for a complete and proper installation.

20. ALL QUESTIONS RELATED TO THIS PROJECT ARE TO BE DIRECTED TO:

NAME: Kellie Seaman
TITLE: Procurement Officer
PHONE: 902-664-9243
EMAIL: kseaman@cumberlandcounty.ns.ca

21. OBTAINING DOCUMENTS

Bids are to be submitted on the official Tender Form as issued through the Municipality's office; failure to use the correct forms could result in the Bid being rejected.

Bidders must not alter any portion of the Tender document or associated documents, with the exception of adding the information requested by the Tender. Bids containing clauses additional to the Tender document that are "qualified" or "conditional" may be rejected.

The Tender document, or any supplementary document or portion thereof is proprietary information and must not be used by the Bidder for any purpose other than the submission of Bids without the permission of the Municipality of the County of Cumberland.

Tender documents are available directly from the Municipality's office at 1395 Blair Lake Road, Amherst, NS (E.D. Fullerton Building).

Notices of tenders are viewed on the Nova Scotia Public Tenders website at www.gov.ns.ca/tenders.

22. Cancellation; No Award

Issuing a Tender implies no obligation on the Municipality to accept any Bid, or a portion of any Bid submitted. The lowest or any Bid will not necessarily be accepted.

Tenders may be cancelled in whole or in part without penalty, when a) the price Bid exceeds the funds allocated for the purchase; b) there has been a substantial change in the requirements after the Tender has been issued; c) information has been received by the Municipality after the Tender has been issued that the Municipality feels has substantially altered the procurement; or d) there was insufficient competition in order to provide the level of service, quality of goods or pricing required.

If no compliant Bids are received in response to a Tender, the Municipality reserves the right to enter into negotiations with one or more vendors in order to complete the procurement.

The Municipality will be the sole judge of whether there is sufficient justification to cancel any Tender.

No action or liability will lie or reside against the Municipality in its exercise of its rights under this section.

23. Confidentiality and Freedom of Information

All Bids submitted become the property of the Municipality of the County of Cumberland. By submitting a Bid, the Bidder hereby grants the Municipality a license to distribute, copy, print or translate the Bid for the purposes of the Tender. Any attempt to limit the Municipality's right in this area may result in rejection of the Bid.

Bidder's Bid package may be subject to disclosure under the Province's "freedom of information" legislation. By submitting a Bid, the Bidder agrees to the appropriate disclosure of the information supplied, subject to the provisions of the governing law. The Municipality cannot guarantee the confidentiality of the complete content of any Bid after the procurement has been awarded to the successful Bidder.

During the delivery and installation of goods and/or services, the Bidder or Bidder's staff may have access to confidential information belonging to the Municipality. Should this occur, the Bidder must ensure that such information is not released to any third parties or unauthorized individuals; failure to comply may result in criminal or civil charges and/or the Bidder's disqualification from any further Tenders issued by the Municipality of the County of Cumberland.

The Municipality is required to comply with the Personal Information International Disclosure Protection Act (S.N.S 2006, c.3). This Act creates obligations for the Municipality of the County of Cumberland and its service providers when personal information is collected, used, or disclosed. Requirements include limiting storage, access, and disclosure of personal information to Canada, except as necessary or otherwise required by law. For more information on this Act please click here. (http://www.gov.ns.ca/just/IAP/governing_law.asp)

24. Enquiries and Contacts

In case of any dispute over the completeness, accuracy and/or interpretation of any Tender documents, the versions of such documents held by the Municipality will be considered correct.

Information, offers, commitments or instructions obtained from any source other than the Municipality of the County of Cumberland will not be binding on the Municipality.

Enquiries regarding the Tender must be made to the contact(s) named in the Tender documents (or their designates); quote the Tender number on any correspondence.

Enquiries and the responses given may be recorded and may be distributed to all other Bidders as Addenda. No response shall be binding on the Municipality unless made in writing.

All enquiries regarding the interpretation of these Terms and Conditions, general procurement policy or procedures must be made to the Municipality.

25. ACCURACY OF THE TENDER; RIGHT TO CLARIFY

While the Municipality has tried to ensure accuracy in the Tender document, it is not guaranteed or warranted by the Municipality to be accurate, nor is it necessarily comprehensive or exhaustive.

The Municipality will assume that all Bidders have resolved any questions they might have about the Tender and have informed themselves as to existing conditions and limitations, site restrictions, etc. before submitting their Bids.

Nothing in the Tender is intended to relieve Bidders from forming their own opinions and conclusions with respect to the matters addressed in the Tender or its associated documents.

The Municipality of the County of Cumberland reserves the right in its sole discretion to clarify any Bid after closing by seeking further information from that Bidder, without becoming obligated to clarify or seek further information from any or all other Bidders. However, Bidders are cautioned that any clarifications sought will not be an opportunity either to correct errors or change their Bids in any substantive manner.

April 15, 2021

John H Baxter, P.Eng.
925 Route 970
Baie Verte, NB
E4M 1Z6

506 381 4809 cell
jbaxter@baxterengineeringltd.com

Municipality of Cumberland County
1501 Blairs Lake Rd
Upper Nappan, NS

Attn: Mike Carter / mcarter@cumberlandcounty.ns.ca

Re: New Shinimicas Fire Hall Design

Mike, attached are sealed drawings / specifications for the new Fire Hall in Shinimicas. These include a site sketch, building layout and structure drawings including plumbing, electrical and mechanical. Some additions and clarifications are included here.

The site sketch includes a proposed location for the on-site sewage disposal system although, due to site conditions at this time, no proposed location for the water well is shown but this is required to be a minimum 15 meters from any part of the on-site system. It is understood that the on-site sewage system and water well installations will not be part of the tender, however piping for both is to be included to outside the building for connections by others. Pipes are to be sealed with their locations to be marked / recorded. Grade on the 4" sewer effluent pipe is to be well managed inside the building so that it passes through the foundation wall at minimum depth to accommodate the slope requirement of the on-site system (confirm pipe invert elevation with engineer).

A geotechnical evaluation has not been done but several test holes were dug to determine the general suitability of the site for the shallow frost wall foundation and if there was any buried debris on the old farm site. The soils discovered were primarily silty-clay and no debris found however, as noted, the contractor should also check soil suitability and bearing capacity alerting of any concerns.

The area at the front of the new building has had shale placed already as part of the eventual requirement as a base for heavy duty asphalt. It is understood that this preparation of the yard is not part of the tender, but the existing shale may be required to be augmented and compacted to form a base layer at some point. Finished floor heights will need to be established based upon the final elevation of asphalt and the yard area. For the present it is assumed that the top of foundation will be 12" above the shale but the final elevation will be confirmed on-site before construction begins.

It is understood that appliances, including washer & dryer, kitchen range, range hood(s) and refrigerator are to be provided by the owner. Electrical requirements are included in the design for these elements.

Clarifying some other details:

Fire rated doors meeting Code requirements are to be installed in the 2hr firewall and the entrance to the electrical room.

The plumbing connections are to be done meeting Code requirements and the schematic included on sheet P3 is primarily intended to indicate products and fixtures required. Accessories shown in Washroom Accessories Legend are not brand specified but will be good quality items typically used in commercial applications.

The building / architectural drawings will govern regarding any discrepancies between these and the electrical, plumbing & mechanical drawings provided. Note in particular the area of the kitchen and adjacent store room that are not consistent. Any adjustments are to be included in the tender price.

A 240 v plug suitable for a compressor installation at the rear of the fire truck bay near the O/H door is to be added to the tender.

A standard for paint to be used is PPG Manor Hall or approved equal.

Eaves trough is to be seamless metal and downspout locations will be coordinated on site.

Air balancing of the ventilation systems by a certified company is required to be included with the mechanical installation.

As is usual, bidders are required to report any errors or omissions noted in these plans prior to placing bids and commencing any work.

Please let me know if you have any questions. A final package of sealed drawings will follow shortly.

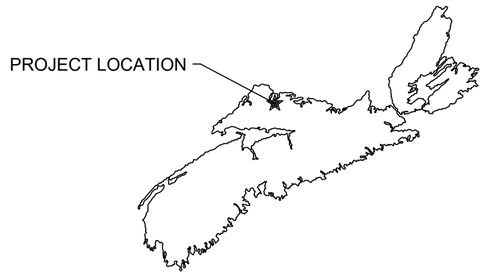
Sincerely,

John Baxter, M.A.,P.Eng.

Cc: Justin Waugh-Cress /jwaugh-cress@cumberlandcounty.ns.ca
Kent Harrison / kent.harrison@ceharrison.com

SHINIMICAS FIRE HALL ELECTRICAL

PROJECT ADDRESS: 4972 HIGHWAY 6, SHINIMICAS, NS B4H 3Y2
LEGAL DESCRIPTION: PID# 25096819
CONTACT: JOHN H BAXTER (506)-381-4809



SHEET TITLE INDEX

ELECTRICAL:

E000 - COVER SHEET
E100 - LIGHTING PLAN
E101 - POWER PLAN & DETAIL
E102 - PANEL SCHEDULES

GENERAL ELECTRICAL NOTES:

1. CODE COMPLIANCE:
   1.1. ALL WORK SHALL COMPLY WITH THE CANADIAN ELECTRICAL CODE 2018 (CEC), AND APPLICABLE LOCAL BYLAWS.

2. REGULATORY COMPLIANCE:
   2.1. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THE EXECUTION AND INSPECTION OF THE ELECTRICAL WORK. UPON COMPLETION OF THE WORK, A CERTIFICATE OF INSPECTION FROM THE UTILITY SHALL BE PROVIDED TO THE ENGINEER.
   2.2. ALL WORK SHALL BE COMPLETED ACCORDING TO CURRENT HEALTH AND SAFETY LEGISLATION, AND APPLICABLE SAFETY CODES.

3. DESIGN COORDINATION:
   3.1. REFER TO ARCHITECTURAL, MECHANICAL AND EQUIPMENT LAYOUT DRAWINGS FOR THE EXACT LOCATIONS OF ANY EQUIPMENT.
   3.2. SUBMIT SHOP DRAWINGS OF MAJOR EQUIPMENT TO ENGINEER AND/OR OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PLACING ORDERS OR INSTALLATION.
   3.3. PROVIDE ONE (1) SET OF AS-BUILT DRAWINGS FOR THE ELECTRICAL WORK WHERE CHANGES HAVE OCCURRED TO THE ORIGINAL DESIGN.

4. TRADES COORDINATION
   4.1. COOPERATE AND COORDINATE WITH ALL OTHER TRADES ON THE PROJECT.
   4.2. COORDINATE WITH MECHANICAL CONTRACTOR(S) FOR INSTALLATION OF DISCONNECT SWITCHES, STARTERS AND OTHER DEVICES SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
   4.3. ALL SLEEVES, INSERTS, CONCRETE BOXES, CURBS, STEEL SUPPORTS, CUTTING, PATCHING, EXCAVATION, TRENCHING AND/OR BACK-FILLING REQUIRED FOR THE ELECTRICAL INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.

5. MATERIALS
   5.1. USE NEW MATERIALS AND EQUIPMENT UNLESS OTHERWISE NOTED.
   5.2. WIRING METHODS-
      5.2.1. ALL WIRING TO BE MINIMUM #12 AWG COPPER IN EMT CONDUIT. WHERE CONCEALED NMD90 IS ACCEPTABLE;
      5.2.2. ALL WIRING INSTALLED IN AIR PLENUMS MUST BE FT6 RATED;
      5.2.3. ALL EXTERIOR WIRING MUST BE UV RESISTANT, OUTDOOR RATED;
      5.2.4. ALL WIRING TO EMERGENCY SYSTEMS, INCLUDING EXIT SIGNS, SHALL CONFORM TO CEC SECTION 46-108.
   5.3. DEVICES-
      5.3.1. ALL SWITCHES, RECEPTACLES, ETC. TO BE COMMERCIAL OR HEAVY-DUTY GRADE, UNLESS APPROVED BY ENGINEER.

6. WARRANTIES
   6.1. A WRITTEN GUARANTEE COVERING ALL MATERIALS AND INSTALLATION OF THE ELECTRICAL WORK SHALL BE PROVIDED, BY THE ELECTRICAL CONTRACTOR, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.LETION.

RURAL ROOTS Engineering & Design
10653 Highway 2, Masstown, NS B0M 1G0
TEL: (902) 641-2236
www.rural-roots.ca

JOHN H BAXTER, P.ENG

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE Nov 11, 2020
J. H. Baxter
4352

ISS.	YY/MM/DD	DESCRIPTION	BY
10.			
9.			
8.			
7.			
6.			
5.			
4.			
3.	2020-11-05	ISSUED FOR TENDER-R1	VT
2.	2020-11-02	ISSUED FOR TENDER	VT
1.	2020-10-13	ISSUED FOR REVIEW	VT

PROJECT
SHINIMICAS FIRE HALL ELECTRICAL

LOCATION
4972 HIGHWAY 6
SHINIMICAS,
NS B4H 3Y2
PID: 25096819

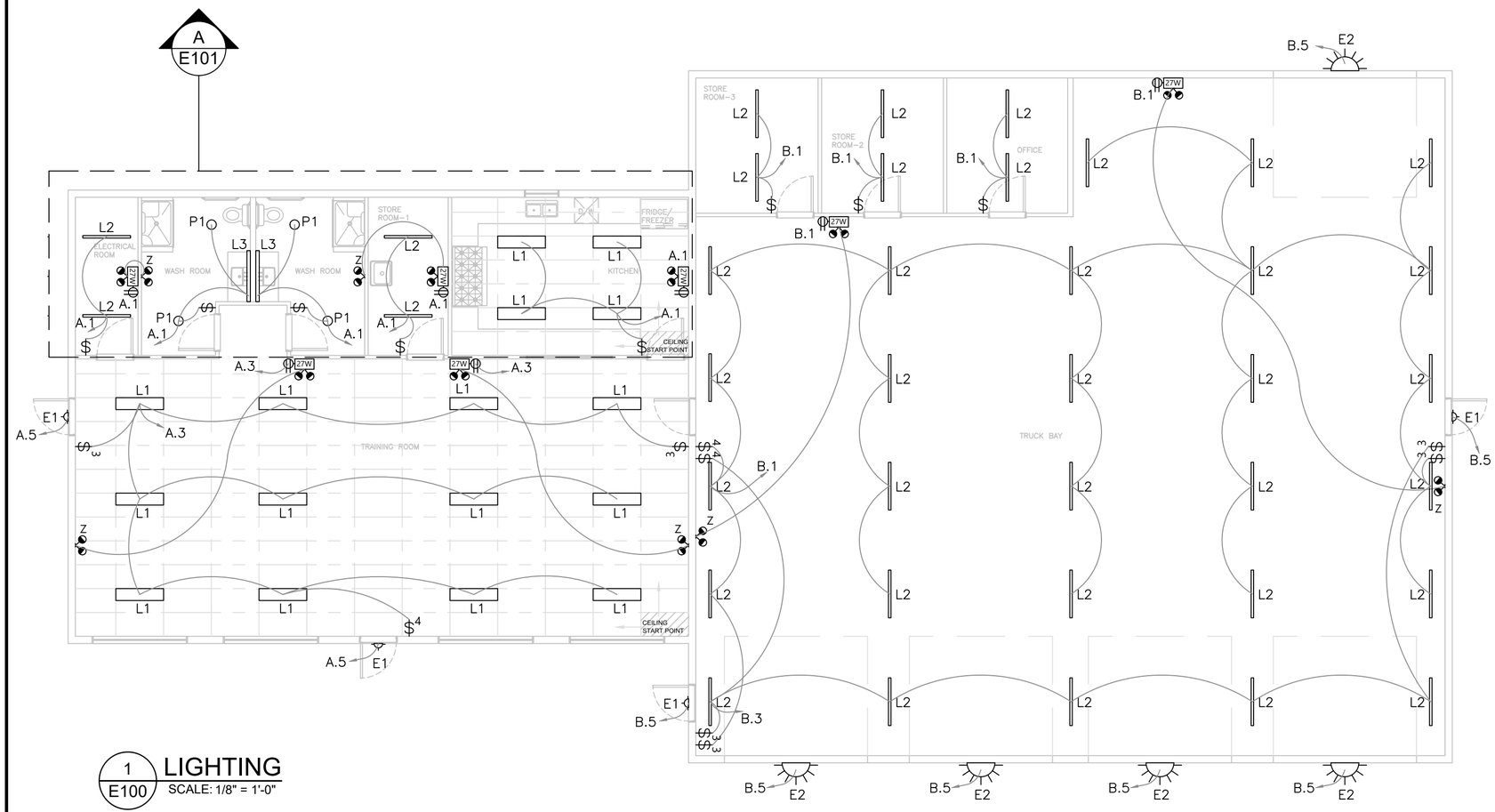
CLIENT
JOHN H BAXTER, P.ENG

PROJECT No.	SHEET SIZE
2020-053	ARCH-C
DRAWN: VT	DESIGNED: DHC
SCALE: NTS	DATE: 2020-09-22

TITLE
COVER SHEET

SHEET NO.
E000

SERVER\Company\Rural Roots\2020-053 - Baxter Eng - Shinimicas Fire Electrical\DRAFTING\5.0 ELECTRICAL\CURRENT\E100 ELECTRICAL SITE PLAN 2020-11-05 -IFT - R1 November 10, 2020 4:11 PM



1 E100 **LIGHTING**
SCALE: 1/8" = 1'-0"

LIGHTING LEGEND

TYPE	LAMPS	DESCRIPTION	VOLTAGE
L1	LED 4000°K	1'X4' SURFACCE MOUNT FIXTURE C/W ACRYLIC DIFFUSER	120V
L2	LED 4000°K	4' STRIP FIXTURE	120V
L3	LED 4000°K	4' 'CUBE' FIXTURE	120V
P1	14W LED	6" POT LIGHT I/C RATED	120V
E1	13W LED	EXTERIOR LED WALLPACK C/W ALUMINUM HOUSING & FULLY TEMPERED GLASS LENSE	120V
E2	40W LED	EXTERIOR LED WALLPACK C/W ALUMINUM HOUSING & FULLY TEMPERED GLASS LENSE	120V
## Y	2X 4W LED MR16 HEADS	EMERGENCY LIGHT BATTERY PACK; 10-YEAR BATTERY LIFE; RATED AT 27W FOR 30 MIN.	120V/6V
Z	2X 4W LED MR16 HEADS	EMERGENCY LIGHT REMOTE HEADS; MOUNTED AT 84" A.F.F.	6V

SWITCHING LEGEND

NOTE: 'A.F.F. = ABOVE FINISHED FLOOR

$	15AMP, 125V SINGLE POLE SPEC.-GRADE SWITCH C/W NYLON COVERPLATE; MOUNTED 48" A.F.F.
3$	15AMP, 125V, 3-WAY TOGGLE SWITCH C/W COVERPLATE; MOUNTED 48" A.F.F.
4$	15AMP, 125V, 3-WAY TOGGLE SWITCH C/W COVERPLATE; MOUNTED 48" A.F.F.
P	1800W, 125V, WEATHERPROOF PHOTO CONTROL

STANDARDS OF ACCEPTANCE

FIXTURE	MANUFACTURER/MODEL	ALTERNATES W/ ENGINEER APPROVAL	
TYPE 'L1'	CORE FP-14-40-G2 C/W SURFACE MOUNT KIT SMK-14	METALUX	LITHONIA
TYPE 'L2'	FLUX STREAM FSS-440L840-120-DIM	METALUX	LITHONIA
TYPE 'L3'	FLUX STREAM FSW-440L840-120-DIM	METALUX	LITHONIA
TYPE 'P1'	LIGHTOLIER CP6RB10840W	METALUX	LITHONIA
TYPE 'E1'	KEENE LP7	LUMARK	LITHONIA
TYPE 'E2'	KEENE LP16	LUMARK	LITHONIA
TYPE 'Y'	LUMACELL RGC 272 LD1	LUXNET	AIM-LITE
TYPE 'Z'	LUMACELL MQM2NC LD1	LUXNET	AIM-LITE

RURAL ROOTS Engineering & Design
10653 Highway 2, Masstown, NS B0M 1G0
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JOHN H BAXTER, P.ENG

REGISTERED PROFESSIONAL ENGINEER * PROVINCE OF NOVA SCOTIA *
DATE Nov 11, 2020
J. H. Baxter
4352

ISS.	YY/MM/DD	DESCRIPTION	BY
10.			
9.			
8.			
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4.			
3.	2020-11-05	ISSUED FOR TENDER-R1	VT
2.	2020-11-02	ISSUED FOR TENDER	VT
1.	2020-10-13	ISSUED FOR REVIEW	VT

PROJECT
SHINIMICAS FIRE HALL ELECTRICAL

LOCATION
4972 HIGHWAY 6
SHINIMICAS,
NS B4H 3Y2
PID: 25096819

CLIENT
JOHN H BAXTER, P.ENG

PROJECT No.	SHEET SIZE
2020-053	ARCH-C
DRAWN: VT	DESIGNED: DHC
SCALE: 1/8"=1'-0"	DATE: 2020-09-22

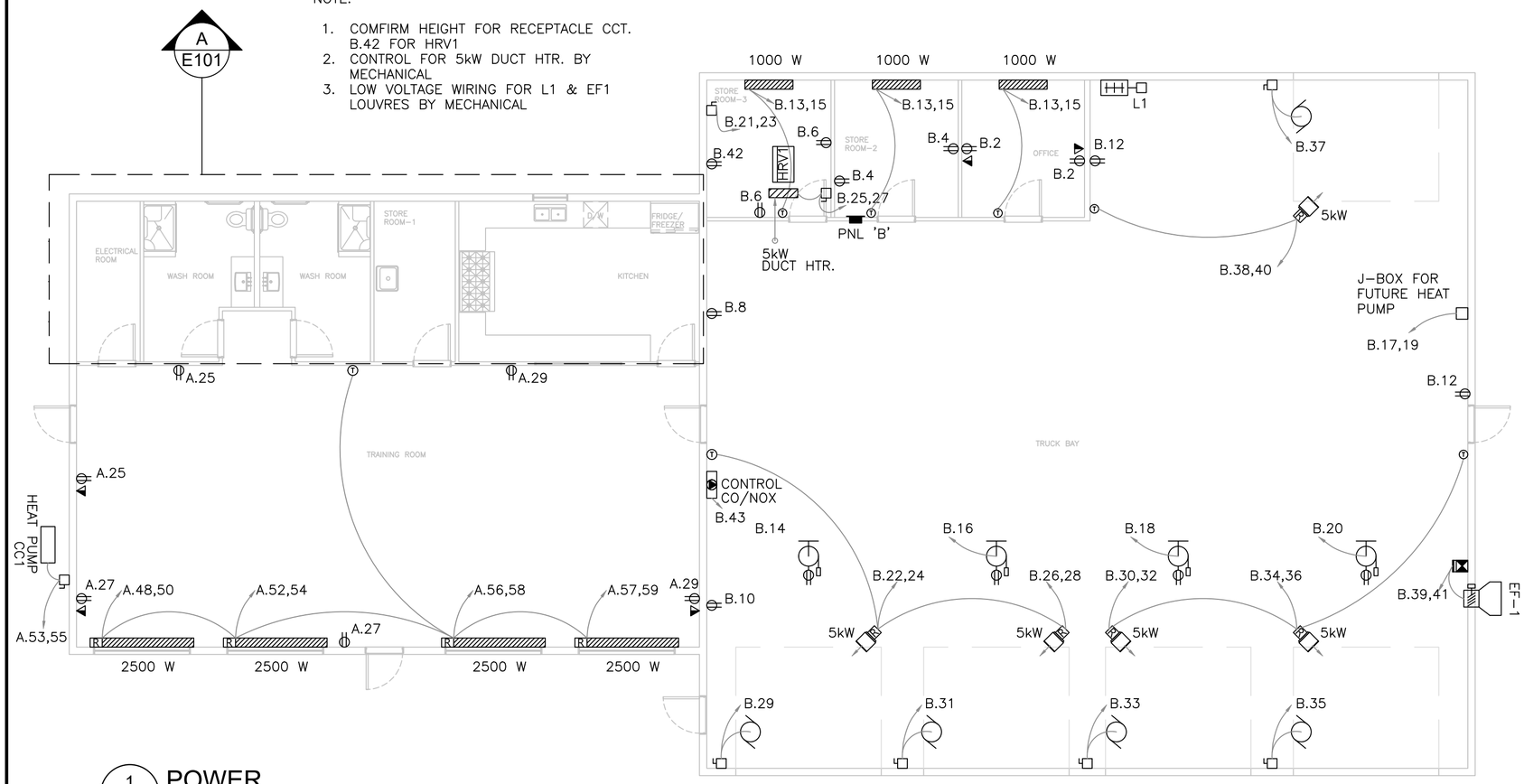
TITLE
LIGHTING PLAN

SHEET NO.
E100

SERVER\Company\Rural Roots\2020-053 - Baxter Eng - Shinimicas Fire Electrical\DRAFTING\5.0 ELECTRICAL\CURRENT\E100 ELECTRICAL SITE PLAN 2020-11-05 -IFT - R1 November 10, 2020 10:27 AM

NOTE:

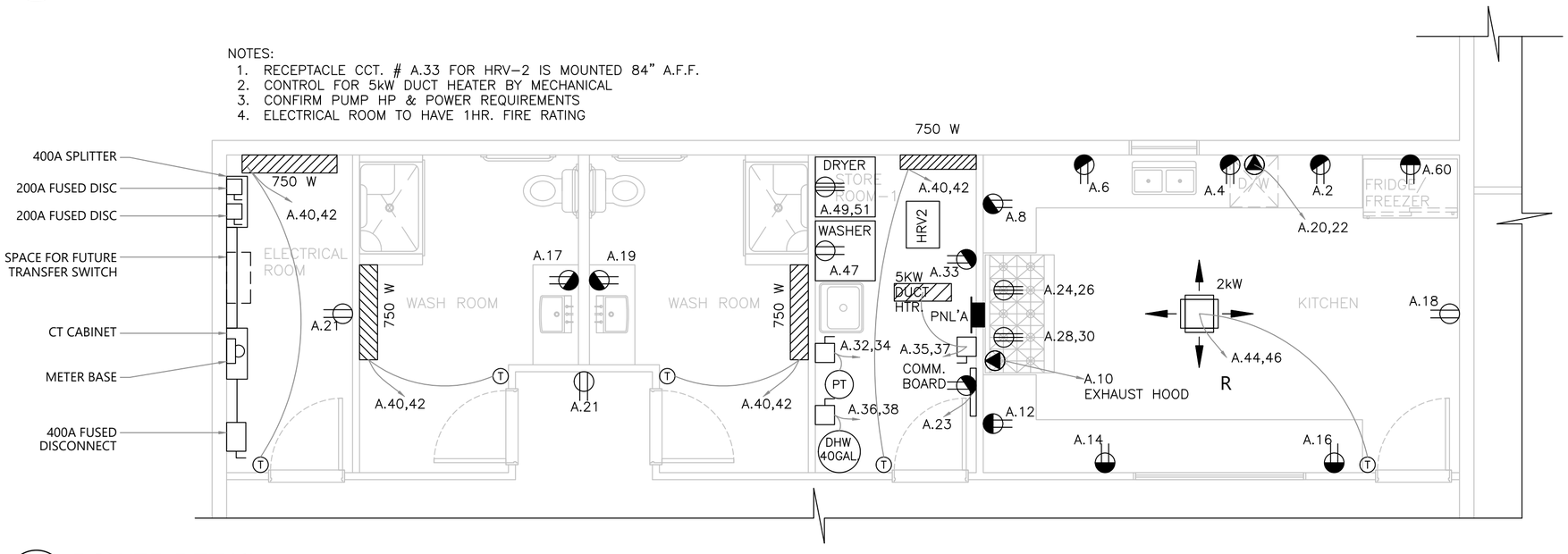
1. COMFIRM HEIGHT FOR RECEPTACLE CCT. B.42 FOR HRV1
2. CONTROL FOR 5kW DUCT HTR. BY MECHANICAL
3. LOW VOLTAGE WIRING FOR L1 & EF1 LOUVRES BY MECHANICAL



1 E101 **POWER**
SCALE: 1/8" = 1'-0"

NOTES:

1. RECEPTACLE CCT. # A.33 FOR HRV–2 IS MOUNTED 84" A.F.F.
2. CONTROL FOR 5kW DUCT HEATER BY MECHANICAL
3. CONFIRM PUMP HP & POWER REQUIREMENTS
4. ELECTRICAL ROOM TO HAVE 1HR. FIRE RATING



1 E101 **POWER DETAIL**
SCALE: 1/4" = 1'-0"

POWER LEGEND

NOTE: 'A.F.F. = ABOVE FINISHED FLOOR

SYMBOL	DESCRIPTION
	CEILING MOUNTED CORD REEL
	UNFUSED DISCONNECT SWITCH RATED AS SHOWN; MOUNTED 54" A.F.F.
	MAGNETIC STARTER SWITCH C/W SELECTOR SWITCH; RATED AS NOTED; MOUNTED 54" A.F.F.
	15AMP, 120V 'U-GROUND' DUPLEX RECEPTACLE C/W NYLON COVERPLATE; MOUNTED 18" A.F.F.
	15AMP, 120V 'U-GROUND' DUPLEX RECEPTACLE C/W NYLON COVERPLATE; MOUNTED 44" A.F.F.
	15AMP, 120V 'U-GROUND' GROUND FAULT DUPLEX RECEPTACLE C/W COVERPLATE; MOUNTED 44" A.F.F.
(D,R)	240V SINGLE RECEPTACLE c/w COVERPLATE; MOUNTED 4" A.F.F. (CSA CONFIG.: DRYER 14-30R, RANGE 14-50R)
	EQUIPMENT DIRECT CONNECTION
T	HEATING THERMOSTAT MOUNTED 60" A.F.F.; SUPPLIED, INSTALLED & WIRED BY DIV.16. ('LV' DENOTES LOW VOLTAGE)
	240V, 1Ø, BASEBOARD ELECTRIC HEAT; STANDARD WATT DENSITY; WATTAGE AS NOTED
R	HEATING THERMOSTAT RELAY
	240V, 1Ø UNIT HEATER; WATTAGE AS NOTED
	240V, 1Ø, CEILING-MOUNTED UNIT HEATER; WATTAGE AS NOTED
	SINGLE PHASE MOTOR LOCATION

COMMUNICATIONS LEGEND

ALL VOICE AND/OR DATA OUTLETS TO BE MOUNTED IN DEEP BOX C/W 3/4" CONDUIT TO ABOVE FINISHED CEILING. ALL DEVICES/FACEPLATES TO BE WHITE UNLESS NOTED.

▼	DUAL TELEPHONE/COMPUTER OUTLET, MOUNTED AT 18" A.F.F. OR ADJACENT RECEPTACLE C/W 2-PORT FACEPLATE, TWO RJ45 JACKS & TWO 4 PAIR #24AWG CAT. 6 UTP CABLES; ONE TO VOICE TERMINATION & ONE TO DATA TERMINATION.

DATA TERMINATION: 2-POSITION HINGED WALL MOUNTING BRACKET & 24-PORT CAT. 6 PATCH PANEL.
VOICE TERMINATION: BIX-TYPE MOUNTING BRACKET & BIX STRIPS.

RURAL ROOTS Engineering & Design
10653 Highway 2, Masstown, NS B0M 1G0
TEL: (902) 641-2236
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JOHN H BAXTER, P.ENG

REGISTERED PROFESSIONAL ENGINEER * PROVINCE OF NOVA SCOTIA *
Nov 11, 2020
DATE
J. H. Baxter
4352

10.			
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4.			
3.	2020-11-05	ISSUED FOR TENDER-R1	VT
2.	2020-11-02	ISSUED FOR TENDER	VT
1.	2020-10-13	ISSUED FOR REVIEW	VT
ISS.	YY/MM/DD	DESCRIPTION	BY

PROJECT
SHINIMICAS FIRE HALL ELECTRICAL

LOCATION
4972 HIGHWAY 6
SHINIMICAS,
NS B4H 3Y2
PID: 25096819

CLIENT
JOHN H BAXTER, P.ENG

PROJECT No.	SHEET SIZE
2020-053	ARCH-C
DRAWN: VT	DESIGNED: DHC
SCALE: AS NOTED	DATE: 2020-09-22

TITLE
POWER PLAN & DETAIL

SHEET NO.
E101

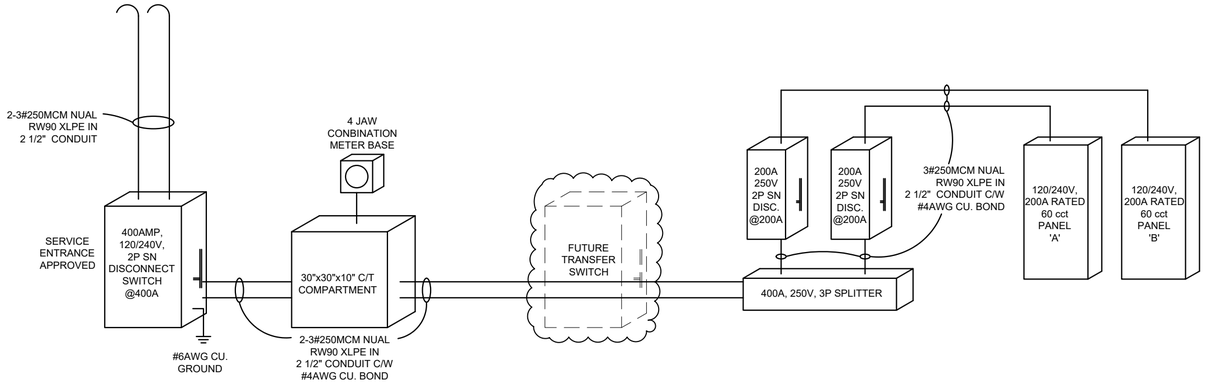
SERVER\Company\Rural Roots\2020-053 - Baxter Eng - Shinimacas Fire Electrical\DRAFTING\5.0 ELECTRICAL\CURRENT\E100 ELECTRICAL SITE PLAN 2020-11-05 -IFT - R1 November 10, 2020 10:28 AM

PANEL VOLTAGE: 120/240V	PANEL TYPE: NEMA 1	PROJECT	PANEL
PANEL LOCATION: STORE ROOM-1	PANEL MAINS: 200 AMP	SHINIMICAS FIRE HALL	'A'
PANEL SOURCE: 200A DISC.	PANEL I/C: 10 KA		
PANEL MOUNTING: FLUSH	PANEL FEEDER: 3-250MCM NUAL		

	CCT	DESCRIPTION	WATTAGE A	WATTAGE B	P	BRKR AMP	Ø	BRKR AMP	P	WATTAGE A	WATTAGE B	DESCRIPTION	CCT	
	1	LIGHTS - KITCHEN, W/R'S E-ROOM, OFFICE			1	15	A	15	1			RECEPTACLE - KITCHEN	2	
	3	LIGHTS - TRAINING RM			1	15	B	15	1			RECEPTACLE - KITCHEN	4	
(P)	5	LIGHTS - EXTERIOR			1	15	A	15	1			RECEPTACLE - KITCHEN	6	
	7						B	15	1			RECEPTACLE - KITCHEN	8	
	9						A	15	1			POWER - RANGE HOOD	10	
	11						B	15	1			RECEPTACLE - KITCHEN	12	
	13						A	15	1			RECEPTACLE - KITCHEN	14	
	15						B	15	1			RECEPTACLE - KITCHEN	16	
	17	RECEPTACLE - W/R			1	15	A	15	1			RECEPTACLE - KITCHEN	18	
	19	RECEPTACLE - W/R			1	15	B	30	2			POWER	20	#10 AWG
	21	RECEPTACLE - E-ROOM			1	15	A					DISHWASHER	22	
	23	RECEPTACLE - COMM.			1	15	B	40	2			POWER RANGE	24	#8 AWG
	25	RECEPTACLE - TRAINING			1	15	A						26	
	27	RECEPTACLE - TRAINING			1	15	B	40	2			POWER RANGE	28	#8 AWG
	29	RECEPTACLE - TRAINING			1	15	A						30	
	31						B	20	2			POWER	32	
	33	RECEPTACLE - HRV2			1	15	A					WATER PUMP	34	
#10 AWG	35	ELECTRIC HEAT			2	30	B	30	2			POWER	36	#10 AWG
	37	5kW HRV2					A					DHW	38	
	39						B	20	2			ELECTRIC HEAT	40	
	41						A					E-RM, W/R's, STORE ROOM	42	
	43						B	20	2			ELECTRIC HEAT	44	
	45						A					KITCHEN	46	
	47	POWER, WASHER			1	15	B	20	2			ELECTRIC HEAT	48	
#10 AWG	49	POWER			2	30	A					TRAINING	50	
	51	DRYER					B	20	2			ELECTRIC HEAT	52	
	53	POWER			2	30	A					TRAINING	54	
	55	HEAT PUMP					B	20	2			ELECTRIC HEAT	56	
	57	ELECTRIC HEAT			2	20	A					TRAINING	58	
	59	TRAINING					B	20	2			POWER FRIDGE	60	
		PHASE LOADS	###	###						###	###			
		TOTAL PHASE LOADS	###							###				
		TOTAL LOADS	###											
		TOTAL AMPERAGE	###	AMPS										

PANEL VOLTAGE: 120/240V	PANEL TYPE: NEMA 1	PROJECT	PANEL
PANEL LOCATION: STORE ROOM-2	PANEL MAINS: 200 AMP	SHINIMICAS FIRE HALL	'B'
PANEL SOURCE: 200A DISC	PANEL I/C: 10 KA		
PANEL MOUNTING: FLUSH	PANEL FEEDER: 3-250MCM NUAL		

	CCT	DESCRIPTION	WATTAGE A	WATTAGE B	P	BRKR AMP	Ø	BRKR AMP	P	WATTAGE A	WATTAGE B	DESCRIPTION	CCT	
	1	LIGHTS - TRUCK BAY			1	15	A	15	1			RECEPTACLE - OFFICE	2	
	3	LIGHTS - TRUCK BAY			1	15	B	15	1			RECEPTACLE - STORAGE	4	
(P)	5	LIGHTS - EXTERIOR			1	15	A	15	1			RECEPTACLE - STORAGE	6	
	7						B	15	1			RECEPTACLE - TRUCK BAY	8	
	9						A	15	1			RECEPTACLE - TRUCK BAY	10	
	11						B	15	1			RECEPTACLE - TRUCK BAY	12	
	13	E - HEAT			2	30	A	15	1			CORD REEL	14	
	15	OFF. / STORE ROOM 2 + 3					B	15	1			CORD REEL	16	
	17	POWER			2	30	A	15	1			CORD REEL	18	
	19	HEAT PUMP					B	15	1			CORD REEL	20	
#10 AWG	21	POWER - BREATHING			2	30	A	70	2			ELECTRIC HEAT	22	#10 AWG
	23	AIR COMPRESSOR					B					TRUCK BAY	24	
#10 AWG	25	ELECTRIC HEAT			2	30	A	30	2			ELECTRIC HEAT	26	#10 AWG
	27	5kW HRV1					B					TRUCK BAY	28	
	29	POWER - O/H DOOR			1	25	A	30	2			ELECTRIC HEAT	30	#10 AWG
	31	POWER - O/H DOOR			1	25	B					TRUCK BAY	32	
	33	POWER - O/H DOOR			1	25	A	30	2			ELECTRIC HEAT	34	#10 AWG
	35	POWER - O/H DOOR			1	25	B					TRUCK BAY	36	
	37	POWER - O/H DOOR			1	15	A	20	2			ELECTRIC HEAT	38	#10 AWG
	39	POWER			2	20	B					TRUCK BAY	40	
	41	EF - 1					A					POWER HRV1	42	
	43	POWER - CO / NOX			1	15	B						44	
	45												46	
	47												48	
	49												50	
	51												52	
	53												54	
	55												56	
	57												58	
	59												60	
		PHASE LOADS	###	###						###	###			
		TOTAL PHASE LOADS	###							###				
		TOTAL LOADS	###											
		TOTAL AMPERAGE	###	AMPS										



ONE LINE DIAGRAM

SCALE: NTS

ALL ELECTRICAL EQUIPMENT SHALL BE FIELD-MARKED TO WARN PERSONS OF POTENTIAL ELECTRIC SHOCK AND ARC-FLASH HAZARDS

LOAD CALCULATION	CALC.
BASE BUILDING	
TRAINING (176 SQ.M @30W/m)	5.3 kW
TRUCK BAYS (334 SQ.M @5W/m)	1.7 kW
MECH. EQUIPMENT	33 kW
ELECTRIC HEAT (43 kW @ 75%)	33 kW
TOTAL	73 kW
73 kW = 304.2 A@ 120/240V, 1Ø RECOMMEND 400A, 120/240V, 1Ø O/H SERVICE	

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JOHN H BAXTER, P.ENG

REGISTERED PROFESSIONAL ENGINEER * PROVINCE OF NOVA SCOTIA *
Nov 11, 2020
DATE
J. H. Baxter
4352

ISS.	YY/MM/DD	DESCRIPTION	BY
10.			
9.			
8.			
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3.	2020-11-05	ISSUED FOR TENDER-R1	VT
2.	2020-11-02	ISSUED FOR TENDER	VT
1.	2020-10-13	ISSUED FOR REVIEW	VT

PROJECT
SHINIMICAS FIRE HALL ELECTRICAL

LOCATION
4972 HIGHWAY 6
SHINIMICAS,
NS B4H 3Y2
PID: 25096819

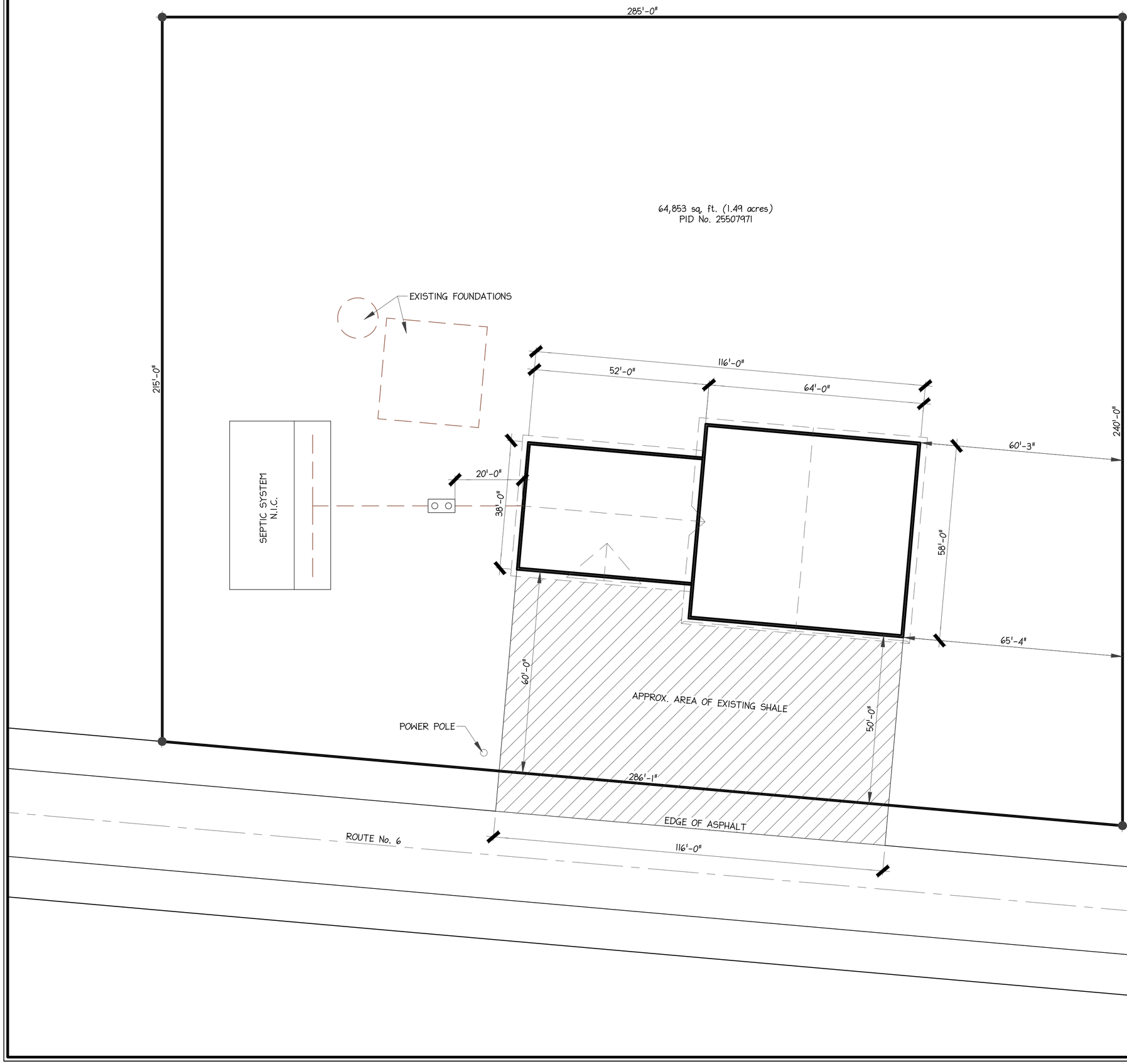
CLIENT
JOHN H BAXTER, P.ENG

PROJECT No.	SHEET SIZE
2020-053	ARCH-C
DRAWN: VT	DESIGNED: DHC
SCALE: 1/8"=1'-0"	DATE: 2020-09-22

TITLE
PANEL SCHEDULES

SHEET NO.
E102

SERVER\Company\Rural Roots\2020-053 - Baxter Eng - Shinimacas Fire Electrical\DRAFTING\5.0 ELECTRICAL\CURRENT\E100 ELECTRICAL SITE PLAN 2020-11-05 -IFT - R1 November 10, 2020 10:28 AM



REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE Nov 10, 2020
K. H. Baxter
4352

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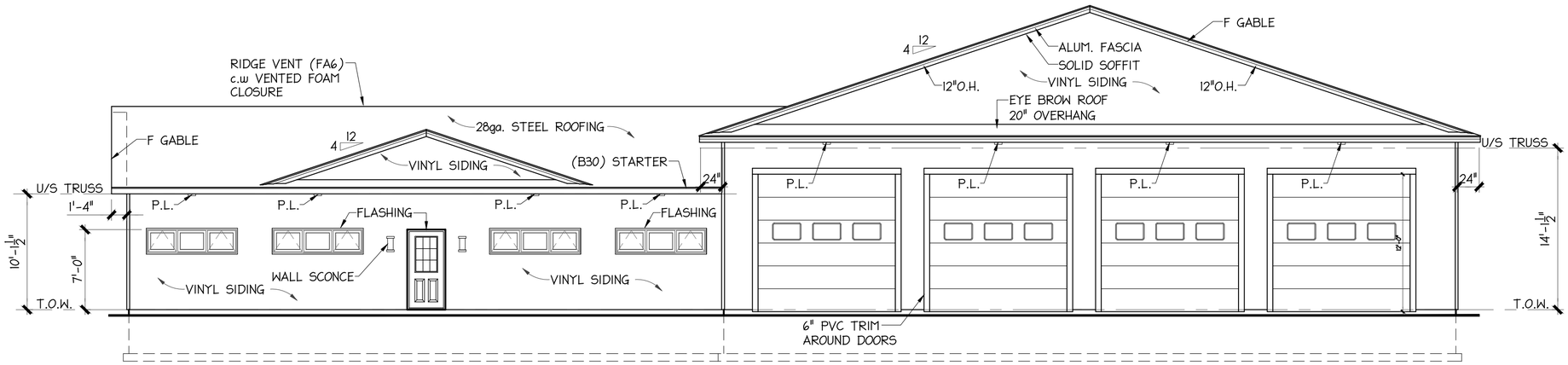
EAST COAST
HOME DESIGN
KENT.HARRISON@CEHARRISON.COM
(P) 667 3306 (F) 667 7750

CUSTOMER

NEW FIREHALL
SHINIMCAS N.S.

DRN. BY	KMH	CONTRACT	20-08-1996
DATE	NOV. 9/20	SHEET	SP-1
SCALE	NTS	REV.1	

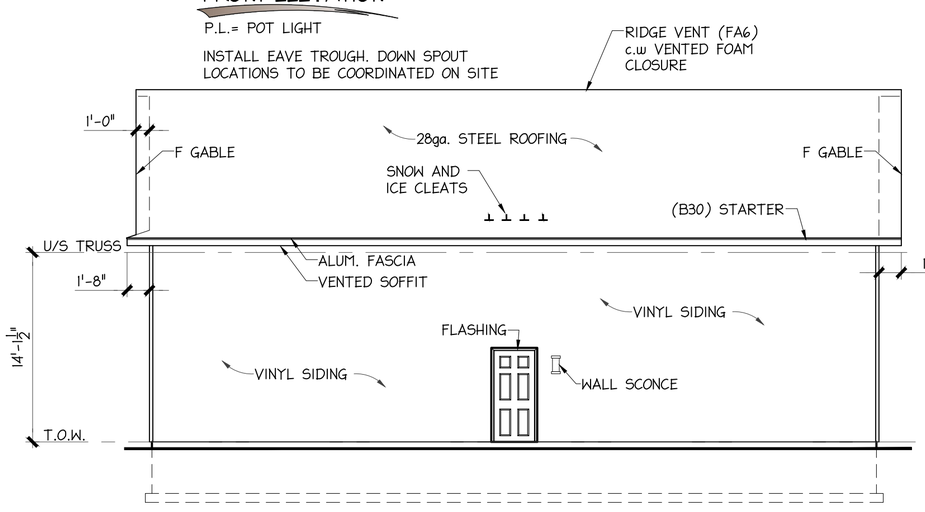
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FRONT ELEVATION

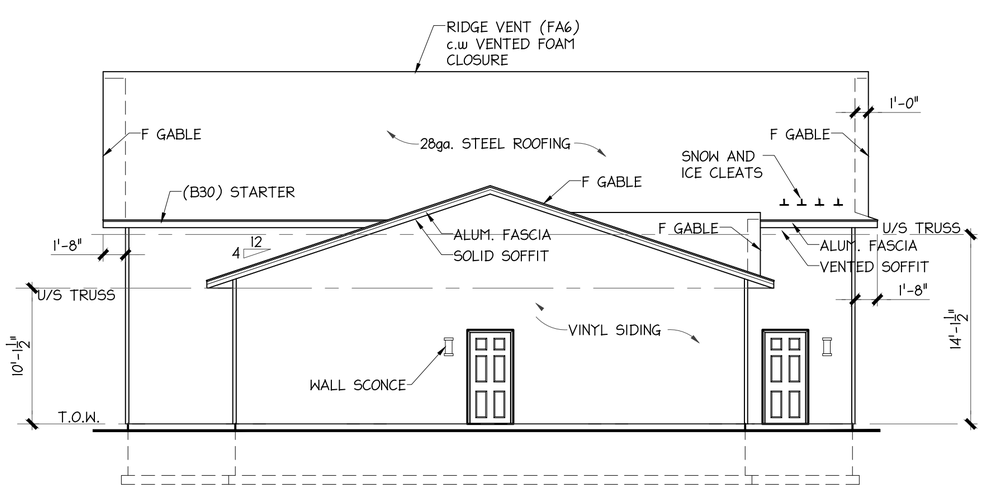
P.L.= POT LIGHT

INSTALL EAVE TROUGH. DOWN SPOUT
LOCATIONS TO BE COORDINATED ON SITE



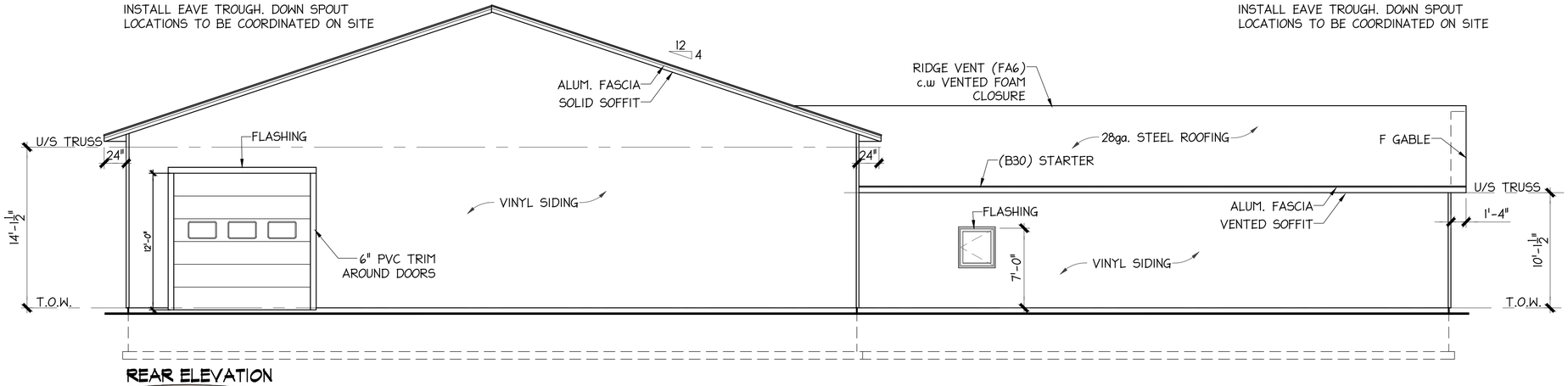
RIGHT ELEVATION

INSTALL EAVE TROUGH. DOWN SPOUT
LOCATIONS TO BE COORDINATED ON SITE



LEFT ELEVATION

INSTALL EAVE TROUGH. DOWN SPOUT
LOCATIONS TO BE COORDINATED ON SITE



REAR ELEVATION

INSTALL EAVE TROUGH. DOWN SPOUT
LOCATIONS TO BE COORDINATED ON SITE

ALL SIDING AND ACCESSORIES TO BE GENTEC SEQUIA SELECT OR EQUAL

ALL EXTERIOR DOORS TO BE STEEL SLAB c/w VINYL FRAME AND BRICK MOLD KOLTECH OR EQUAL

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
Nov 10, 2020
DATE
H. Baxter
4352

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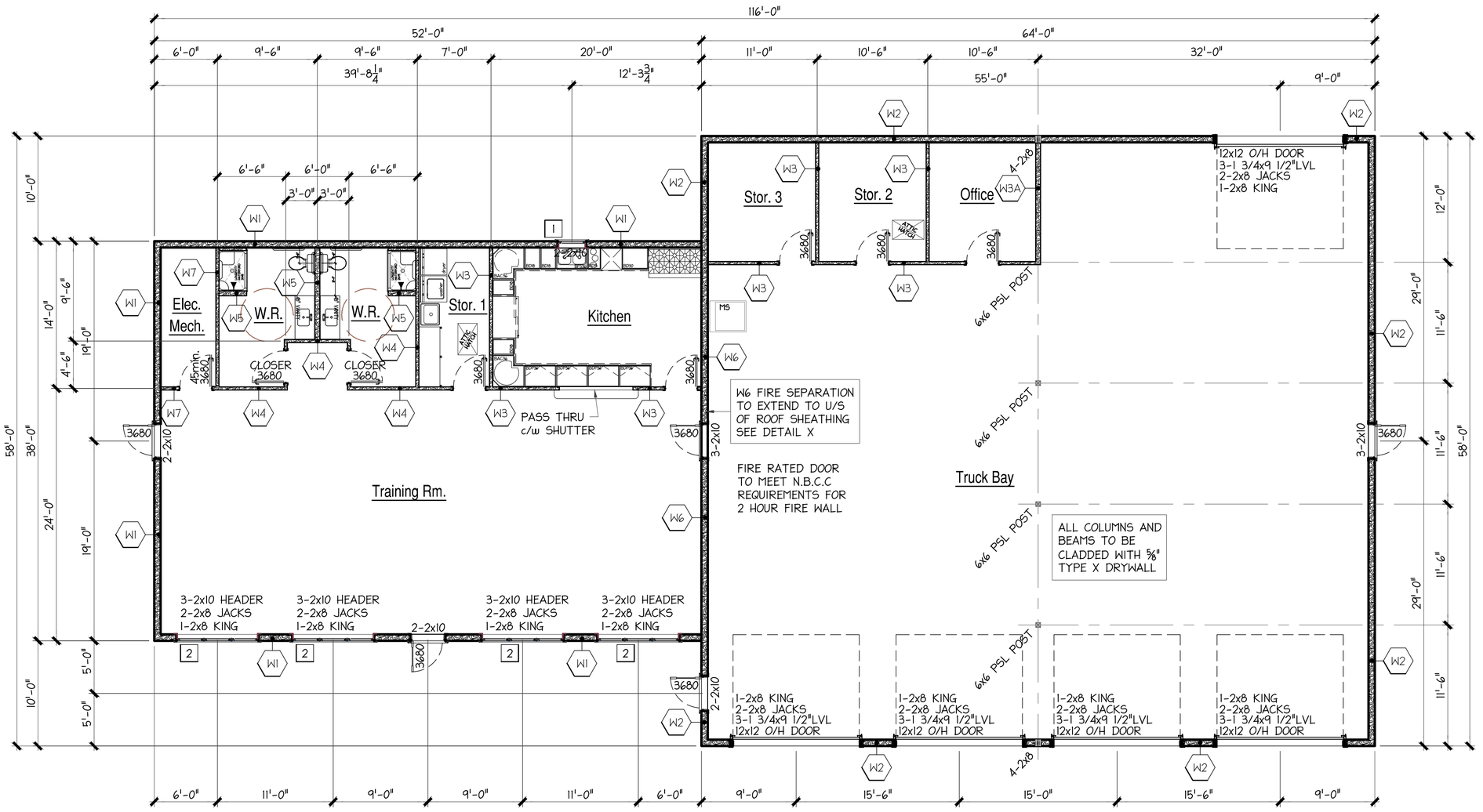
EAST COAST HOME DESIGN
KENT.HARRISON@CEHARRISON.COM
(P) 667 3306 (F) 667 7750

CUSTOMER

NEW FIREHALL
SHINIMCAS N.S.

DRN. BY	KMH	CONTRACT	20-08-1996
DATE	NOV. 9/20	SHEET	E1
SCALE	1/8"=1'-0"	REV.!	

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MAIN FLOOR PLAN

SCALE : 1/8"=1'-0"

0 6 4
3 12 8

ALL INTERIOR WALLS TO EXTEND TO U/S OF TRUSS

PROVIDE BLOCKING IN WALLS AS REQUIRED FOR O/H DOOR OPERATORS, CABINETS, HEAT PUMP AND CONDENSER UNITS, ELECTRICAL PANEL AND EQUIPMENT AND ALL SUPPLY EXHAUST UNITS ETC.

PROVIDE FRP (FIBER REINFORCED PANEL) SPLASH GUARDS BEHIND ALL HOSE BIBS, WALL HYDRANTS IN TRUCK BAYS 48"WIDE AND ABOVE SPIGOT AND JANITORS SINK AS REQUIRED

WALL SCHEDULE

W1 TRAINING AREA EXTERIOR WALL 9'-1/2" TALL
- VINYL SIDING
- HOUSE WRAP
- 7/16 OSB WALL SHEATHING
- 2x8 STUDS AT 16"c/c BLOCKED AT MID HEIGHT
- (R-28) BATT INSULATION
- VAPOR BARRIER
- 5/8" TYPE "x" DRYWALL

W2 TRUCK BAY EXTERIOR WALL 14'-1/2" TALL
- VINYL SIDING
- HOUSE WRAP
- 7/16 OSB WALL SHEATHING
- 2x8 STUDS AT 16"c/c BLOCKED AT 48"c/c
- (R-28) BATT INSULATION
- VAPOR BARRIER
- 5/8" TYPE "x" DRYWALL

W3 INTERIOR WALL
- 1/2" DRYWALL
- 2x4 STUDS AT 16"c/c
- 1/2" DRYWALL

W3A INTERIOR WALL
- 1/2" DRYWALL
- 2x6 STUDS AT 16"c/c
- 1/2" DRYWALL

W4 INTERIOR WALL
- 1/2" DRYWALL
- 2x4 STUDS AT 16"c/c
- SOUND INSULATION
- 1/2" DRYWALL

W5 INTERIOR WALL
- 1/2" DRYWALL
- 2x6 STUDS AT 16"c/c
- SOUND INSULATION
- 1/2" DRYWALL

W6 TRUCK BAY
- 2 LAYERS 5/8" TYPE X DRYWALL
- 2x8 STUDS AT 16"c/c
- R28 INSULATION
- 7/16" OSB WALL SHEATHING
- VAPOR BARRIER (warm side)
- 2 LAYERS 5/8" TYPE X DRYWALL

W7 F.R.R.=1.0h / STC = 32
PER TABLE A-9.10.3.1 NBCC 2015
- 1 LAYER 5/8" TYPE X DRYWALL
- 2x4 STUDS AT 16"c/c
- 1 LAYER 5/8" TYPE X DRYWALL

WINDOW SCHEDULE

1 CASEMENT 36x40
LOW-E ARGON
WHITE VINYL FRAME
SEE ELEVATIONS FOR GRILL PATERN
FULL SCREEN

2 AWNING 32x24-3
LOW-E ARGON
WHITE VINYL FRAME
SEE ELEVATIONS FOR GRILL PATERN
FULL SCREEN

Room No.	Floor Fin.	Base Bd.	Wall Color	Ceiling	Misc.
Elec.	CONCRETE	4" DRY BASE COVE MOLDING	by owner	2-5/8" TYPE "x" drywall	
W.R.	COMMERICAL VINYL TILE	4" DRY BASE COVE MOLDING	by owner	5/8" Type X drop ceiling	
W.R.	COMMERICAL VINYL TILE	4" DRY BASE COVE MOLDING	by owner	5/8" Type X drop ceiling	
Storage No.1	CONCRETE	4" DRY BASE COVE MOLDING	by owner	5/8" TYPE "x" drywall	
Kitchen	COMMERICAL VINYL TILE	4" DRY BASE COVE MOLDING	by owner	5/8" Type X drop ceiling	
Training Rm.	COMMERICAL VINYL TILE	4" DRY BASE COVE MOLDING	by owner	5/8" Type X drop ceiling	
Office	COMMERICAL VINYL TILE	4" DRY BASE COVE MOLDING	by owner	5/8" Type X drop ceiling	
Storage No.2	CONCRETE	4" DRY BASE COVE MOLDING	by owner	5/8" TYPE "x" drywall	
Storage No.3	CONCRETE	4" DRY BASE COVE MOLDING	by owner	5/8" TYPE "x" drywall	
Truck Bay	CONCRETE	4" DRY BASE COVE MOLDING	by owner	5/8" TYPE "x" drywall	

NOTES:

- CONTRACTOR SHALL EXAMINE THESE DRAWINGS, REPORTING ANY ERRORS OR OMISSION PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR SHALL ENSURE SOIL BEARING CAPACITY AND FOOTING SIZES CONFORM WITH ARTICLE 9.15.3 NBC. SOIL BEARING CAPACITY OF 3000 PSF MINIMUM SHALL BE APPROVED IN WRITING BY SOILS ENGINEER.
- MECHANICALLY EXHAUST KITCHEN & BATHROOM FANS TO THE OUTSIDE.
- HEAT RECOVERY UNIT SHALL BE INSTALLED AND BALANCED BY A CERTIFIED INSTALLER OR ACCORDING TO CSA-F326.
- MAINTENANCE OF HRU, FILTERS ETC. SHALL BE THE OWNERS RESPONSIBILITY TO COMBAT POTENTIAL MOLD GROWTH.
- SLOPE GRADE AWAY FROM FOUNDATION.
- ROOF FRAMING LAYOUT AND DESIGN TO BE DESIGNED BY THE ROOF TRUSS SUPPLIER/MANUFACTURER.
- STUD WALLS TO RUN CONTINUOUS FROM FLOOR PLATE TO CEILING PLATE.
- INTERIOR TRIM AND MILLWORK TO BE DETERMINED BY OWNER.
- ALL DOUBLE HEADERS TO HAVE ONE JACK STUD AND ONE KING STUD. ALL TRIPLE HEADERS AND OPENINGS OVER 90" TO HAVE 2 JACK STUDS AND ONE KING STUD UNLESS NOTED
- WINDOW SIZES INDICATED ARE APPROXIMATE ONLY, AND MUST BE CONFIRMED ON SITE TO SUIT THE SELECTED MANUFACTURER'S STANDARD UNITS SIZES.
- COORDINATE EXACT WINDOW AND EXTERIOR DOOR LOCATIONS. MAINTAIN SPACING BETWEEN WINDOW, DOORS AND CORNERS TO ALLOW FOR EXTERIOR AND INTERIOR TRIMS.
- PROVIDE 2 ATTIC HATCHES 22"X36" ONE IN THE TRAINING ROOM AND ONE IN THE TRUCK BAY

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
Nov 10, 2020
DATE
K. H. Barclay
4352

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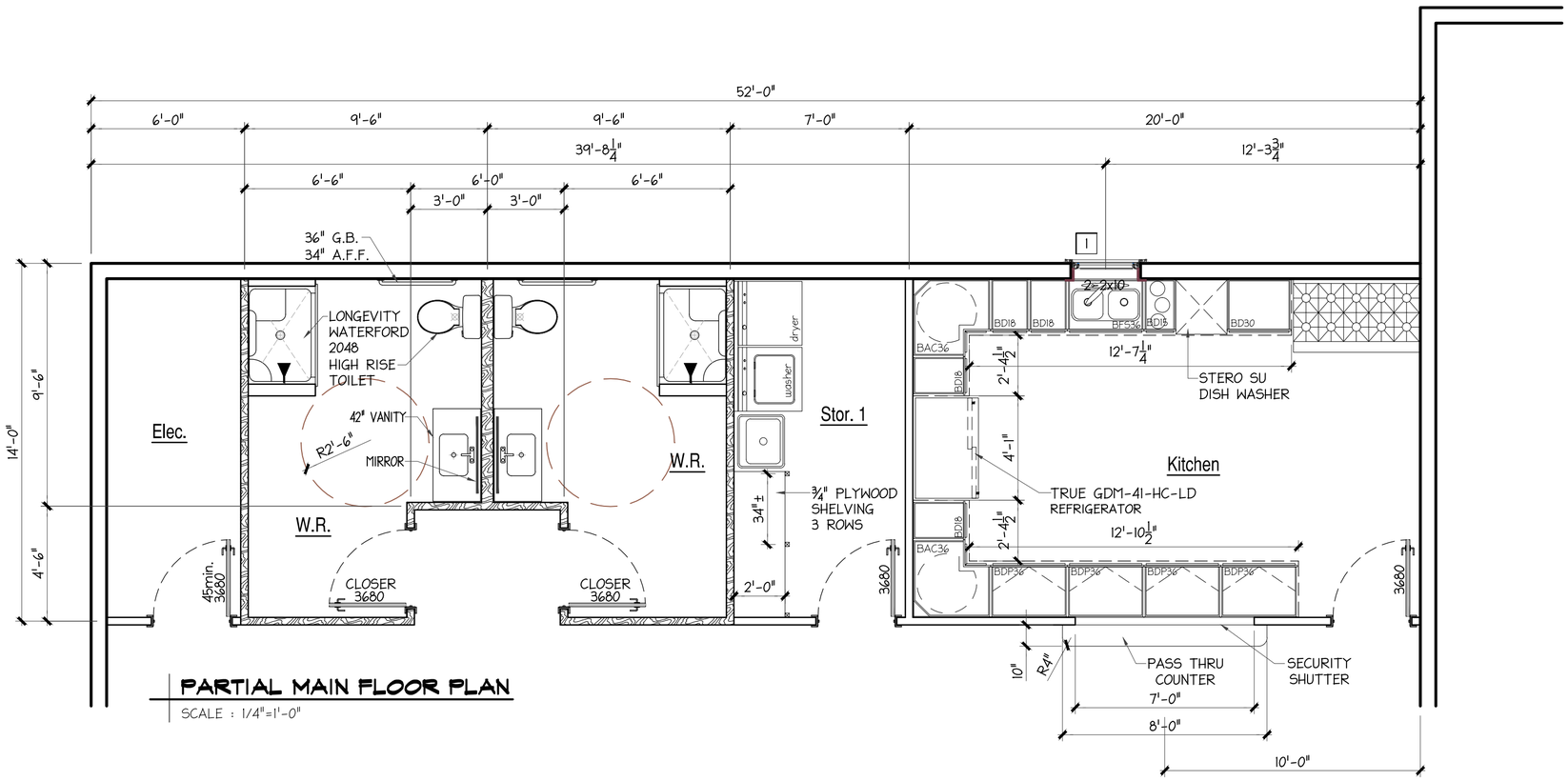
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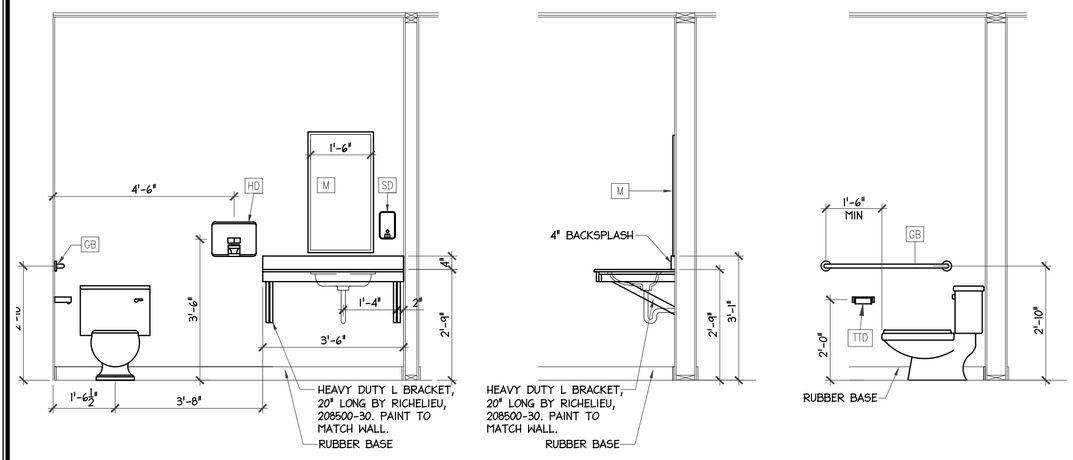
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PARTIAL MAIN FLOOR PLAN

SCALE : 1/4"=1'-0"



WASHROOM ELEVATIONS

ACCESSORIES LEGEND:

M	MIRROR
SD	SOAP DISPENSER
TTD	TOILET TISSUE DISPENSER
GB	GRAB BAR
CH	COAT HOOK
HD	HAND DRYER

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
Nov 10, 2020
DATE
H. Baxter
4352

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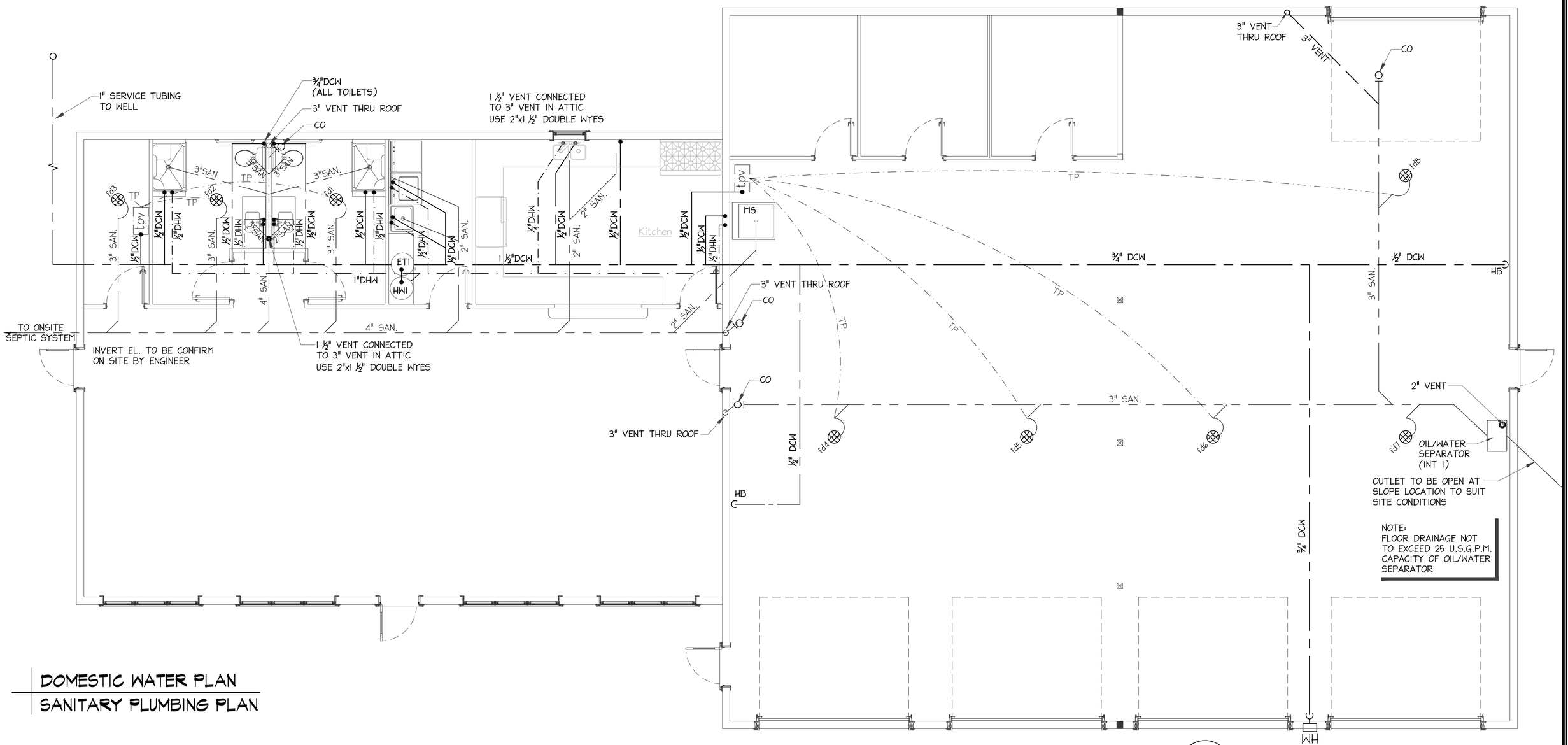
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DOMESTIC WATER PLAN
SANITARY PLUMBING PLAN

PLUMBING LEGEND

- DOMESTIC COLD WATER SUPPLY
- DOMESTIC HOT WATER SUPPLY
- S — SANITARY DRAINAGE
- V — SANITARY VENTING
- TP — ⅜"dia. TRAP PRIMER
- ISOLATION VALVE
- CHECK VALVE
- FD — FLOOR DRAIN c/w P TRAP
- HD — HUB DRAIN c/w P TRAP
- CO — SANITARY CLEAN OUT
- WH — ENCASED WALL HYDRANT
- HB — HOSE BIBB
- TPV — TRAP PRIMER VALVE

DOMESTIC HOT WATER HEATER SCHEDULE

TAG	MANUFACTURER / MODEL	DIMENSIONS (in) H	DIMENSIONS (in) Dia.	CAPACITY (USgal)	RECOVERY (gph)	TEMP. (°F)	ELECTRICAL kW	ELECTRICAL V	ELECTRICAL Ph	ELECTRICAL MOCP	REMARKS
HW1	RHEEM #PRO42STM	46	24	40	–	140	3.0	230	1	–	c/w T&P RELIEF VALVE PIPED TO FLOOR DRAIN

APPROVED ALTERNATES: RHEEM, BRADFORD & WHITE

EXPANSION TANK SCHEDULE

TAG	MANUFACTURER / MODEL	APPLICATION	TOTAL VOL. (USgal)	ACCEPT. VOL. (USgal)	DIMENSIONS (in) H	DIMENSIONS (in) Dia.	DIMENSIONS (in) Conn.	REMARKS
ET1	AMTROL #ST-5-C	DOMESTIC HOT WATER SYSTEM	2.0	0.9	10⅝	10	¾	POTABLE WATER, DIAPHRAGM TYPE

APPROVED ALTERNATES: ARMSTRONG, AMTROL

INTERCEPTOR SCHEDULE

TAG	MANUFACTURER / MODEL	APPLICATION	SIZE	FLOW (USgpm)	CONNECTION (in)	REMARKS
INT1	ZURN #Z-1186-ST	OIL INTERCEPTOR	600	25	3"	c/w HEAVEY DUTY COVER & EXTENSIONS AS REQUIRED

APPROVED ALTERNATES: ZURN, WATTS

PIPING INSULATION SCHEDULE

MANUFACTURER / MODEL	APPLICATION	TEMPERATURE RANGE (°F)	PIPE SIZE (⌀in)	INSULATION THICKNESS (in)
FIBREGLAS SSLII or IMCOA IMCOSHIELD (MIN. R-5/IN)	DCW	40–55	= or < ½"	½
		40–55	> ½"	1
	DHW & DHWR BRANCHES < 12'-0" IN CONDITIONED SPACES	106+	= or < 2"	1
	DHW & DHWR MAINS IN CONDITIONED SPACES	106+	= or < 2"	1
		106+	> 2"	1½
	CONDENSATE DRAINS	–	ALL	½
	REFRIGERANT PIPING	–	ALL	1
	ALL OTHER PIPING	–	ALL	½

NOTE: ALL EXPOSED PIPING TO BE COVERED WITH PVC JACKETS, SEALED.

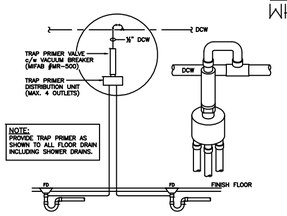
PLUMBING FIXTURE SCHEDULE

N.	MANUFACTURER / MODEL	PIPE SIZE (⌀in) DCW	DHW	TP	W	V	REMARKS
WC1	6L, FLOOR-M UNTED B.F. WATER CLOSET EL MGATED, ZURN #Z5550	½"	–	–	3"	2"	16½" HIGH c/w LONED TANK, FS1, SS1
LV2	O C UNTERT POCHINA LAVAT RY ZURN #Z5110	½"	½"	–	1¼"	1½"	c/w F1, SD, SS2, PT1
CS1	D UBLE B WLOC UNTERT P S.S SINK KINDRED #LSD6410-1	½"	½"	–	1½"	1½"	c/w F2, SS2, PT2
JS	JANIT RS MOP SINK ZURN #Z-1996-24-BS-HH-MH-SD-WG	½"	½"	–	3"	2"	c/w F3
MS	MULTI PURP SE SINK ZURN #MS2620-DF1-PL	½"	½"	–	1¼"	1½"	c/w F3
HB	HOSE BIBB	¾"	¾"	–	–	–	c/w VACUUM BREAKER
WH	ENCASED, ANTI-SIPH N, N N-FREEZE WALL HYDRANT – ZURN #Z-1300	¾"	–	–	–	–	-O
FD	HEAVY DUTY FL R DRAIN ZURN #ZXN-415-A-P	–	–	½"	3"	–	c/w NICKEL BR NZE STRAINER
CO	CLEAN OUT ZURN #Z-1612	–	–	–	–	–	c/w COVER STYLE TO MATCH FLOORING
HD	HUB DRAIN ZURN #Z-415-S-2IP-P	–	–	½"	2"	–	c/w Z-326-2IP INDIRECT WASTE FUNNEL
SH1	MROLN 60" 1 Piece Right Hand White Acrylic Shower Cabinet						SHOWER CURTN

OFS1 = OPEN-FRONT SEAT LESS COVER (OLSONITE #47-SSTL-AM)
OSD = CHROME-PLATED OFFSET CAST DRAIN (DELTA #33T290-1)
SS1 = CHROME-PLATED CLOSET SUPPLIES c/w SCREWDRIVER STOPS (DELTA #4711316SD)
SS2 = CHROME-PLATED LAV SUPPLIES c/w SCREWDRIVER STOPS (DELTA #4772312SD)
B.F. = BARRIER-FREE

F1 = TWO HANDLE, DECKMOUNT FAUCEI, 4" CENTERS & LOW FLOW AERATOR (ZURN #Z81104-3M)
F2 = TWO HANDLE, DECKMOUNT FAUCET, 8" CENTERS & LOW FLOW AERATOR (ZURN #Z871C4-3F)
F3 = TWO HANDLE, WALLMOUNT SERVICE FAUCET, 8" CENTERS (ZURN #Z843M4)
PT1 = 1¼" POLISHED CHROME-PLATED CAST BRASS P-TRAP (ZURN #Z8995-PC)
PT2 = 1½" POLISHED CHROME-PLATED CAST BRASS P-TRAP (ZURN #78996-PC).

APPROVED ALTERNATE: AMERICAN STANDARD & KOHLER
FIXTURES APPROVED ALTERNATES: CHICAGO FAUCETS, DELTA



PRESSURE ACTIVATED TRAP PRIMER DETAIL

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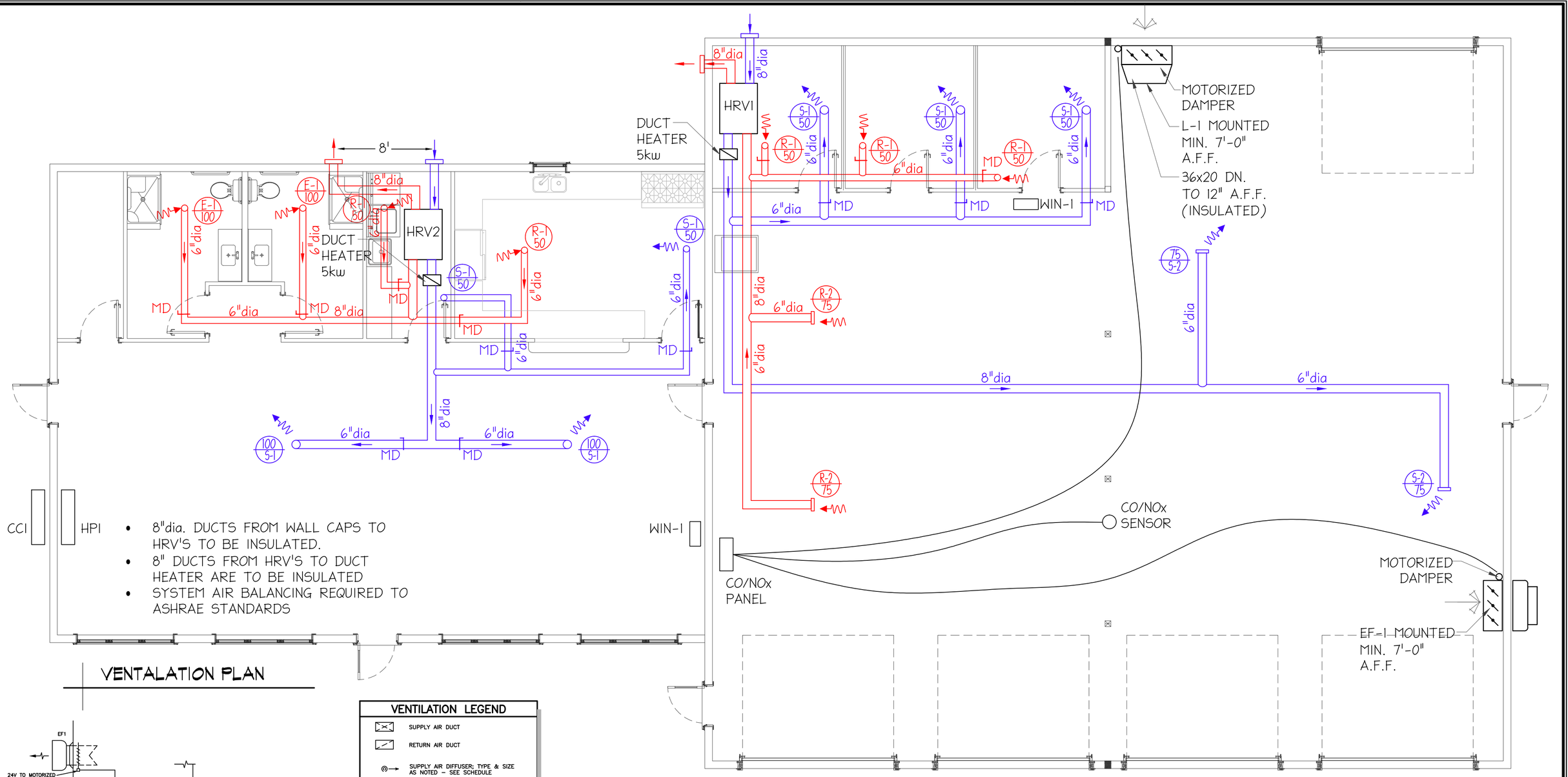
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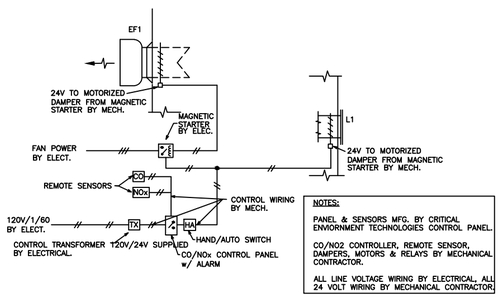
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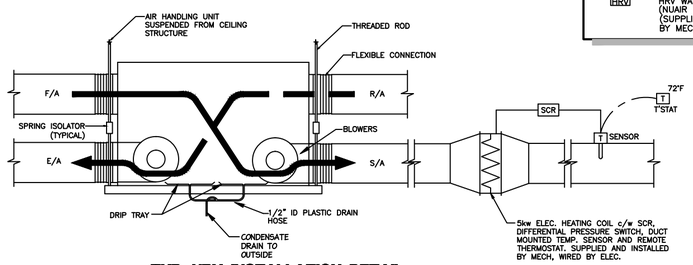
- 8"dia. DUCTS FROM WALL CAPS TO HRV'S TO BE INSULATED.
- 8" DUCTS FROM HRV'S TO DUCT HEATER ARE TO BE INSULATED
- SYSTEM AIR BALANCING REQUIRED TO ASHRAE STANDARDS

VENTALATION PLAN



CO/NOx CONTROL SCHEMATIC

SCALE: N.T.S



TYP. HRV INSTALLATION DETAIL

SCALE: N.T.S

VENTILATION LEGEND

- SUPPLY AIR DUCT
- RETURN AIR DUCT
- SUPPLY AIR DIFFUSER; TYPE & SIZE AS NOTED – SEE SCHEDULE
- RETURN or EXHAUST AIR GRILLE; TYPE & SIZE AS NOTED – SEE SCHEDULE
- DIFFUSER TYPE – SEE SCHEDULE
- DESIGN AIRFLOW IN CFM
- CHANGE IN DUCT THICKNESS; (LARGER TO SMALLER)
- FLEXIBLE DUCT CONNECTION
- MANUAL DAMPER
- BALANCE DAMPER
- LOW VOLTAGE THERMOSTAT (SUPPLIED, INSTALLED & WIRED BY MECHANICAL CONTRACTOR)
- HRV WALL CONTROLLER (NUAIR #WIN-1) (SUPPLIED, INSTALLED & WIRED BY MECHANICAL CONTRACTOR)

EQUIPMENT	REFERENCE	MANUFACTURER	cfm(size)	SP	RPM	HP	ELECTRICAL	REQUIREMENTS
CO/NOx EXHAUST	EF1	'TWIN CITY BCRW 210B	4400	0.50	810	1.0	230v/1PH#	BIRD SCREEN, MOTORIZED DAMPER
RANGE HOOD	RH							SIZE AS REQUIRED
VENTILATORS	HRV 1,2	NUAIR-NU305	300	0.40"	N/A	N/A	115v/1PH	WALL CAPS,SCREENS FLEX CONNECTION, CONTROLLER WIN-ICC
CO/NOx INTAKE	L1	EH PRICE DE635	4400/36"x36"					MOTORIZED DAMPER, INSULATED, BIRD & INSECT SCREEN
SUPPLY & RETURN DIFFUSERS	S1,R1,E1	HART & COOLEY #20STEEL	50to100(6"/12" FACE)					
SUPPLY & RETURN GRILLS	S2,R2	HART & COOLY 94 HOV	75 8"x4"					VOLUME DAMPER
METAL DUCT WORK								GALVANIZED STEEL TO SMACNA
FLEXIBLE DUCTWORK								MAX. 4' LENGTHS (MIN. USE)
DUCT SEALANT								
DUCT SUPPORTS								PER SMACNA & ASHRAE REQUIMENTS
DUCT HEATER		THERMOLEC					230v 1PH	8"x8"
ROUND DUCT INSULATION		MULTIGLASS-MASON						2" FOIL FACE, TAPE JOINTS
SQUARE DUCT INSULATION		MULTIGLASS-MASON						FIBRE BOARD W 8oz. CANVAS JACKET PAINTED & SEALED

MECHANICAL HEATING AND COOLING

EQUIPMENT	REFERENCE	MANUFACTURER	CFM	BTU COOLING	ELECTRICAL	REQUIREMENTS
O/S CONDENSER	CCI	KERR KMH24SU 1		24,000	208/230 1PH	BRACKETS, DISCONNECT, PIPE INSULATION
I/S UNIT	HPI	KERR KMH24SU 1				BRACKETS, CONDENSATE DRAIN TO OUTSIDE



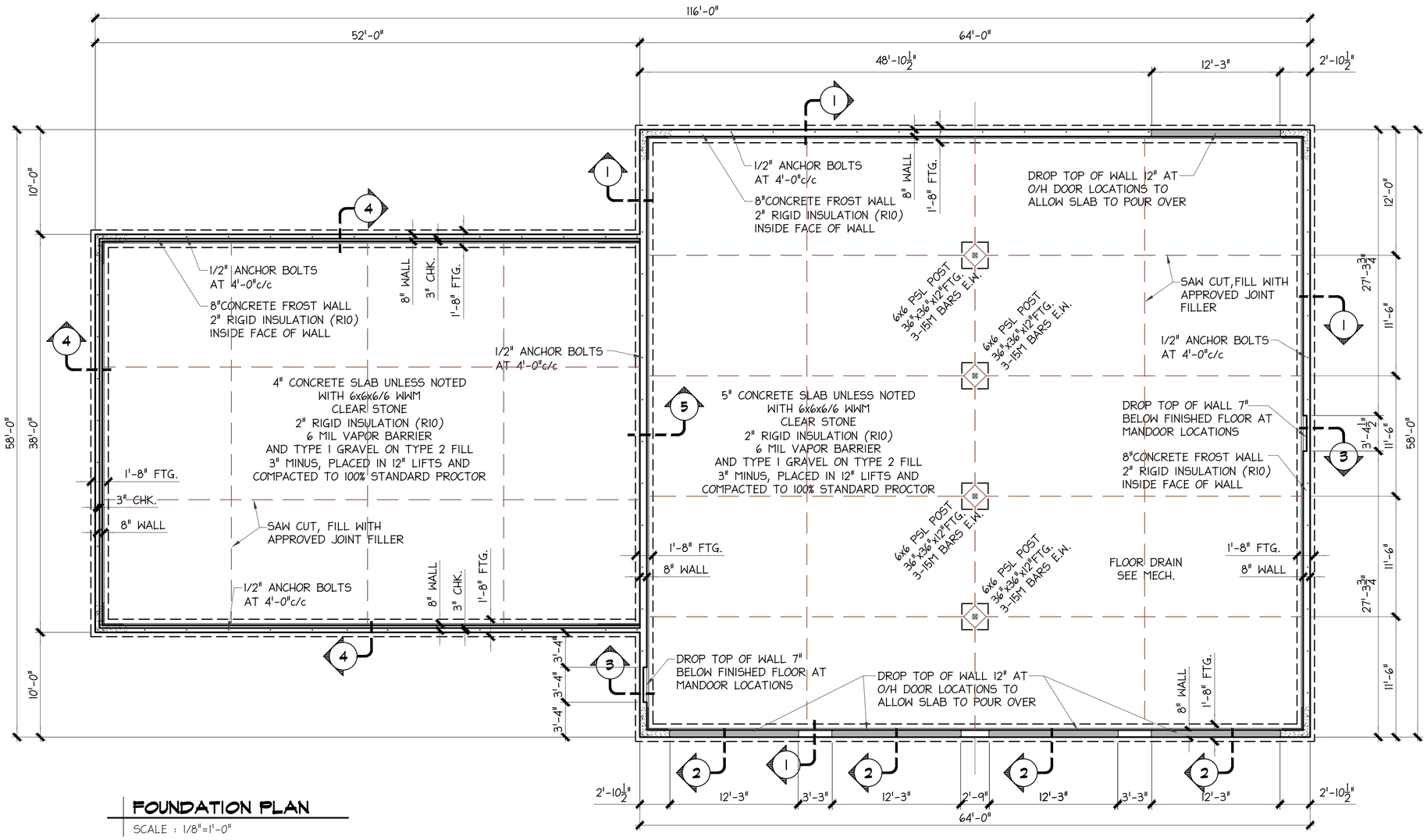
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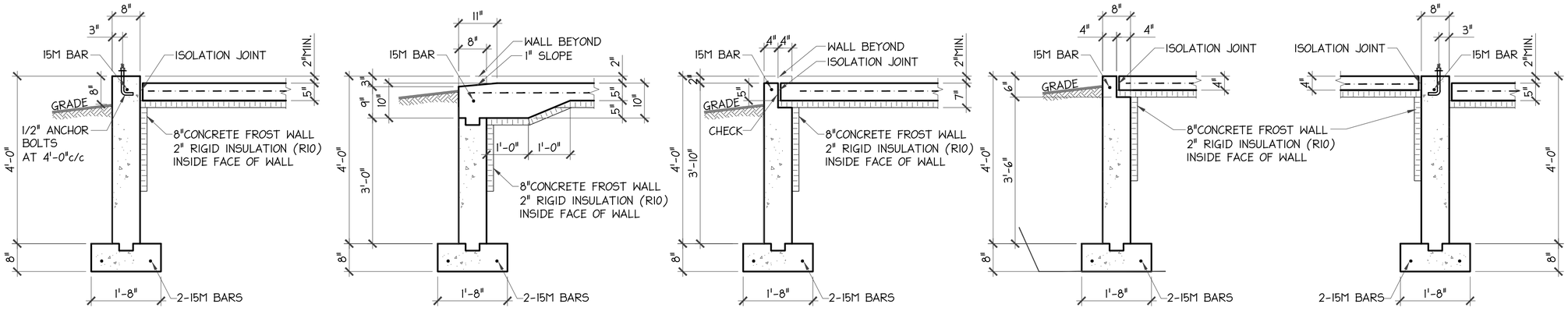
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FOUNDATION PLAN

SCALE : 1/8"=1'-0"



CONCRETE NOTES:

CONCRETE STRENGTHS FOR:
ALL EXTERIOR WALLS = 20 MPa AT 28 DAYS
ALL FOOTINGS = 20 MPa AT 28 DAYS
ALL INTERIOR SLABS = 25 MPa AT 28 DAYS
ALL GARAGE SLABS = 32 MPa AT 28 DAYS

ALL CONCRETE SHALL CONFORM TO CSA A23.1-94 WITH A MAXIMUM 3" SLUMP. USE 6% AIR ENTRAINMENT FOR ALL EXTERIOR WALLS AND EXTERIOR SLABS

ALL FLOOR SLAB FINISHES WILL BE AS SPECIFIED BY OWNER.

ALL CONCRETE SHALL BE READY-MIX AND CONFORM TO CSA CAN3-A23.1-94.

CONCRETE FLOOR SLAB THICKNESS ARE SPECIFIED ON DRAWINGS. PLACE SLABS AS SHOWN ON THE PLAN, 6 MIL. POLY. VAPOUR BARRIER AND 6" OF TYPE I GRANULAR SUB-BASE COMPACTED TO 100% STANDARD PROCTOR.

ALL FOOTINGS ARE TO BE PLACED ON SOUND UNDISTURBED SOIL TO DEPTH SHOWN ON THE DRAWINGS WITH A MINIMUM ASSUMED ALLOWABLE BEARING CAPACITY OF 3,000 PSF.

ALL FOOTINGS SHALL HAVE A MINIMUM FROST PROTECTION COVER OF 4'-0"

ALL FOOTINGS ARE TO HAVE 3 ROWS OF 10mm REINFORCING BARS. THE REINFORCING BARS ARE TO BE SITUATED SUCH THAT THE BARS ARE 3" CLEAR FROM SIDE AND BOTTOM OF FOOTINGS

ALL FOUNDATION WALL TO HAVE 1 ROW OF 10mm REINFORCING 3" FROM THE TOP OF WALL CORNER REINFORCING TO BE LAPPED 24" MIN.

INSTALL RADON VENTING AS REQUIRED BY LOCAL CODES

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PROVINCE OF NOVA SCOTIA
DATE Nov 10, 2020
H. Bardon
4352

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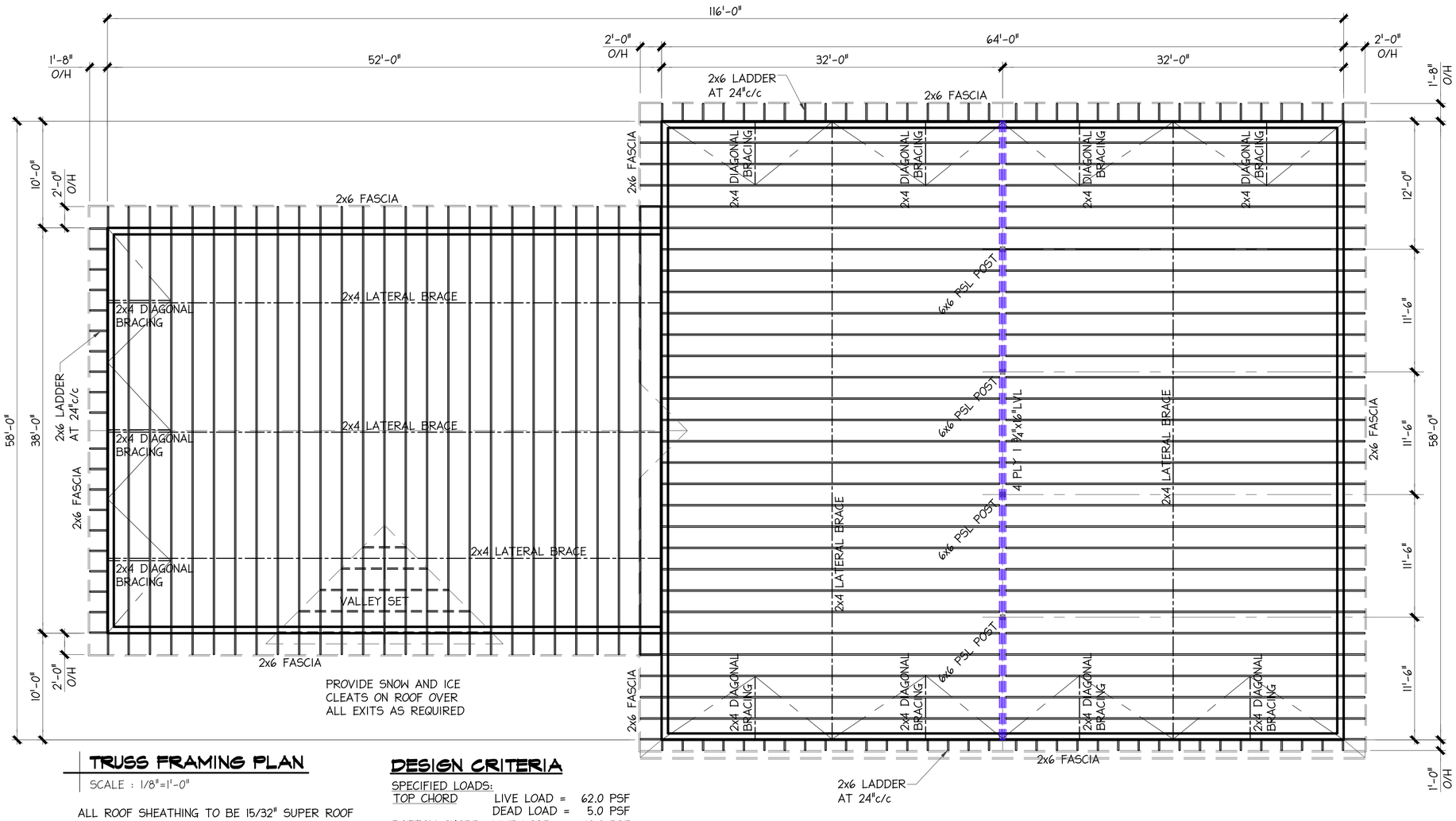
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TRUSS FRAMING PLAN

SCALE : 1/8"=1'-0"

ALL ROOF SHEATHING TO BE 15/32" SUPER ROOF OR EQUAL c/w H-CLIPS AT MIDSPAN, NAIL WITH 2 1/4" NAILS AT NO MORE THEN 12"c/c. THEN STRAPPED WITH 1"x4" AT 24"c/c FASTENED WITH 2-3 ¼" NAILS PER TRUSS

DESIGN CRITERIA

SPECIFIED LOADS:		
TOP CHORD	LIVE LOAD =	62.0 PSF
	DEAD LOAD =	5.0 PSF
BOTTOM CHORD	LIVE LOAD =	10.0 PSF
	DEAD LOAD =	7.0 PSF
	TOTAL LOAD =	84.0 PSF

TRUSSES TO BE DESIGNED FOR POST-DISASTER, REQUIREMENTS OF PART 4, NBCC 2015

ROOF NOTES:

1- PROVIDE ALL PERMANENT AND TEMPORARY BRACING AS SPECIFIED BY THE TRUSS ENGINEER AND HIB-91 SUMMARY SHEET, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES.

2- ALL ROOF TRUSSES SHALL BE DESIGNED, FABRICATED AND INSTALLED IN ACCORDANCE WITH CAN3-086 OR CAN 3-086-I AND NBC.

3- LIMIT LIVE LOAD DEFLECTION NOT TO EXCEED L/360 OF SPAN.

4- ALL TRUSSES TO BE ANCHORED TO TOP PLATE WITH A HIZ HURRICANE CLIP BY USP TIE

5- INSTALL A BUILT UP COLUMN UNDER ALL GIRDER TRUSSES. COLUMN PLY TO MATCH GIRDER PLY

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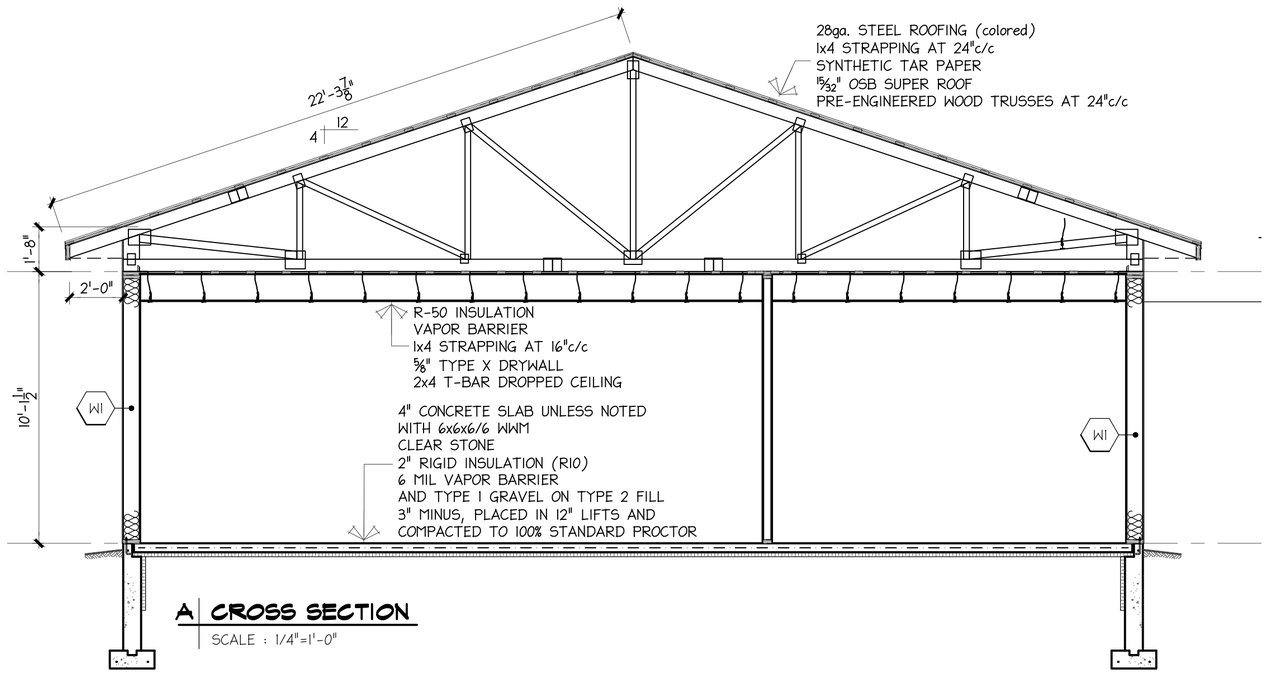
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CUSTOMER

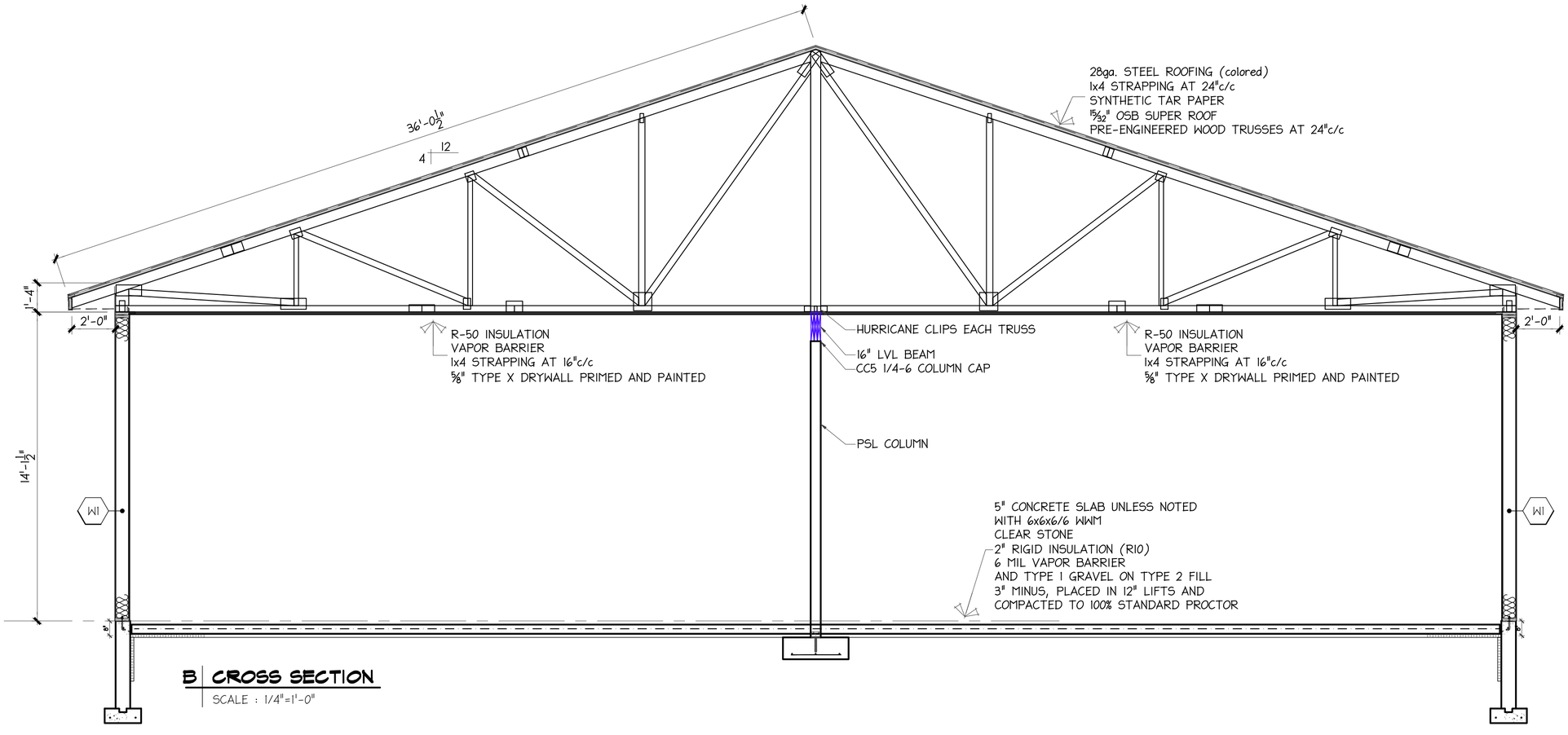
NEW FIREHALL
SHINIMCAS N.S.

DRN. BY	KMH	20-08-1996	CONTRACT
DATE	NOV. 9/20		SHEET
SCALE	1/8"=1'-0"	S1	REV.1



A | CROSS SECTION

SCALE : 1/4"=1'-0"



B | CROSS SECTION

SCALE : 1/4"=1'-0"

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE Nov 10, 2020
H. Bandar
4352

PLAN PROTECTION:

THESE PLANS ARE PROTECTED BY COPYRIGHT LAW. REPRODUCTION OF THESE PLANS IN WHOLE OR IN PART, OR PREPARATION OF DERIVATIVE WORKS THEREOF, WITHOUT PRIOR WRITTEN PERMISSION, IS STRICTLY PROHIBITED.

PLANS ARE TO BE USED FOR CONSTRUCTION OF ONE DWELLING. THE PURCHASE OF THESE PLANS IN NO WAY TRANSFERS COPYRIGHT OR OTHER OWNERSHIP INTEREST TO THE BUYER. BUILDING MORE THAN ONE DWELLING FROM A SET OF RIR HOME PLANS CONSTITUTES COPYRIGHT INFRINGEMENT.

DISCLAIMER:

RIR HOME PLANS DOES NOT ASSUME LIABILITY FOR ANY ERRORS OR OMISSIONS ON THIS PLAN, UNLESS SUBMITTED IN WRITING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

RIR HOMES PLANS SHALL NOT BE RESPONSIBLE FOR ANY DEPARTURE FROM THESE DRAWINGS ADVISED BY ANY BUILDING CONTRACTOR OR PROFESSIONAL CONSULTANT AT ANY TIME PRIOR TO OR DURING CONSTRUCTION. FURTHER, ANY SUCH DEVIATION OR CHANGES TO THESE PLANS NULLIFIES ANY RESPONSIBLY THAT RIR HOME PLANS MAY HAVE WITH RESPECT TO THIS PLAN OR CONSEQUENT CONSTRUCTION. RESALE OF THESE DRAWINGS ARE STRICTLY PROHIBITED.

BUILDING CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE PROCEEDING. DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL CONSTRUCTION SHALL COMPLY WITH PART 9 OF THE NATIONAL BUILDING CODE OF CANADA (NBC) LATEST ADDITION

EAST COAST HOME DESIGN
KENT.HARRISON@CEHARRISON.COM
(P) 667 3306 (F) 667 7750

CUSTOMER

NEW FIREHALL
SHINIMCAS N.S.

DRN. BY KMH	CONTRACT 20-08-1996
DATE NOV. 9/20	SHEET CS1
SCALE 1/4"=1'-0"	REV.1

1. SALUTATION

.1 **To:** Municipality of the County of Cumberland
E.D. Fullerton Building, 1395 Blair Lake Rd, RR #6
Upper Nappan, NS B4H 3Y4

ATTENTION: Kellie Seaman

.2 **For: T-MCC-2103 Shinimicas Fire Department Building**

.3 **From:** _____
_____
_____

2. TENDERER DECLARES:

.1 That this tender was made without collusion or fraud.

.2 That he has carefully examined the proposed work; familiarized himself with local conditions, including labor conditions; carefully examined the Contract Documents and taken all the foregoing into consideration in preparation of this Tender.

.3 That addenda numbers _____ to _____ inclusive were carefully examined (if any).

3. TENDERER AGREES:

.1 To enter into a contract to supply all labour, material and equipment and to do all work necessary for the price stated in Subsection 4.

.2 That this Tender is valid for acceptance for 60 days from Tender Closing.

.3 That the Contract Documents include:

.1 Project Documents
- .01. Letter Re: New Shinimicas Fire Hall Design
- .02. Drawings – New Shinimicas Fire Hall
- .03. Drawings – Shinimicas Fire Hall Electrical
- .04. Form of Tender

.2 Any addenda as issued and as confirmed in subsection 2.3 the Form of Tender.

4. LUMP SUM PRICE

SHINIMICAS FIRE DEPARTMENT BUILDING

TOTAL BID PRICE $ _____
(excluding HST)

5. START DATE_____

TRUCK BAY COMPLETION DATE _____

CONSTRUCTION COMPLETION DATE _____

Liquidated Damages will apply if either completion date is exceeded.

6. SIGNATURES

DATED THIS _____ DAY OF _____, 2021.

[Seal]

_____
Name of Firm Tendering

_____
Signature of Signing Officer

_____
Name and Title of Signing Officer (Printed)

_____ _____
Witness Name and Title (Printed)

_____ _____
Witness Name and Title (Printed)

_____
Company Address

_____
Telephone No.

_____
Fax No.

**NOTE: *Tenders submitted by or on behalf of any Corporation must be signed and sealed in the name of such Corporation by a duly authorized officer or agent.*