

Parks Canada Agency

Addendum: 15th of July 2016

The following modifications have been made to the tender documents issued on July 16th 2016:

1. The price schedule was revised to add item 8 for the work related to insulation in the attic.
2. Specifications :
 - Section 01 11 00 :
 - Modification of article 1.3.1
 - Addition of article 1.3.2
 - Addition of plans and photos regarding article 1.3.1
 - Addition of the following sections:
 - 04 03 06 – Historic – Cleaning masonry
 - 04 03 07 – Historic – Massonry repointing
 - 04 03 08 – Historic - Mortaring

3. Plans

Plan 630584-0000-ST-200 :

- Addition of a note for the insulation of the attic floor.

4. Questions for the bidders:

- **Question** : *It is requested to repair the mortar joints of the foundation wall. What type of mortar is required for this work ? What depth of repair is required ?*

Answer : See new specifications added in this addendum.

- **Question** : *In order to remove the 2nd floor wall, we must dismantle and the wood siding which seem to have a mortar between the joints. What type of mortar is required for this work?*

Answer : See new specifications added in this addendum.

- **Question** : *What furnishing will be removed from the building and which will stay in place during the construction. What will be done by PCA before the beginning of the construction?*

Answer : See section 01 11 00 for additional plans added illustrating what will be moved and not by PCA.

- **Question** : *Will a plan be provided for the existing mechanical ducts?*

Answer : We have included in this addendum an plans of the existing mechanical systems. We cannot guarantee the exactitude of these plans.

- **Question** : *Where must we put our field office? What services will be provided? Can the office be shared with the site supervisor?*

Answer : See section 01 11 00 for the services available and the location of the office. Yes the office may be shared with the site supervisor; however, he must have a desk, his own telephone, internet and access to a printer.

Louis-Philippe Poirier, eng., M.Sc.A.

1. GENERAL

1.1 Work covered by the contract documents

- .1 The works covered by the present contract documents include the repair of the Blockhaus of the Coteau-du-Lac historical site.

1.2 Work by others

- .1 Co-operate with other Contractors (if applicable) in carrying out their respective works and carry out instructions from the Parks Canada Agency (PCA) Representative.
- .2 Co-ordinate work with that of other Contractors (if applicable). If any part of work under this Contract depends for its proper execution or result upon work of another Contractor, report promptly to the PCA Representative, in writing, any defects which may interfere with proper execution of Work.

1.3 Work done by PCA

- .1 PCA will take of clearing, before construction, all furnishings, display cases and exposition posters attached on the walls in the zones of construction in the basement, the ground floor and the second floor. All other furnishing will be left in place and protected by PCA. The contractor shall take care not to damage the furnishings left in place. The basement can be used for material storage by the contractor; however, access shall be given in all times to PCA. See plans and pictures included at the end of this section.
- .2 PCA will remove, before the beginning of construction, the existing insulation and vermiculite found in the attic. This scope of work is excluded.

1.4 Contractor use of premises

- .1 Limit use of premises for work, for storage, for access, to allow:
 - .1 Occupancy by PCA;
 - .2 Work by other contractors (if applicable);

- .2 Co-ordinate use of premises under direction of PCA Representative. See supplementary instruction in section 01 14 00.
- .3 See figure 1 and 2 of section 01 14 00 for the zone reserved for the installation of the site office and the material storage. This zone must be fenced off with a temporary fence. No attenuation measures are required *to* protect the ground in this zone; however, the contractor shall rehabilitate this zone at the end of construction. Install grass sod where required, to the satisfaction of the PCA representative. Electricity will be provided for the office.
- .4 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.
- .5 The contractor must install a fence around the Blockhaus to protect the construction site and insure the safety of the park users. The fence must be installed as close as possible to the building to minimize the use of the public space.
- .6 Remove or alter existing work to prevent injury or damage to portions of existing work which remain.
- .7 Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by PCA Representative.
- .8 At completion of operations condition of existing work: equal to or better than that which existed before new work started. This includes the grassy areas and gravel roads. All damages to the gravel roads caused by the construction shall be repaired by the contractor to the satisfaction of the PCA Representative.

1.5 Use of premises – Particular conditions

- .1 In general, the operations of the PCA are prioritized to those of the Contractor. Under no circumstances shall the Contractor interfere or interrupt the operations of the PCA.
 - .1 Normal site operation hours are the following:
 - .1 7:00 a.m. to 4:00 p.m. from Monday to Friday.

- .2 All works outside the normal hours of the garrison must be approved beforehand by the PCA Representative.
- .2 The Contractor and his subcontractors must notify the PCA Representative of the date and time of any delivery vehicle and details beforehand. If necessary, the Contractor shall provide a staff member for the reception of the goods.
- .3 Use of the site is restricted to the zone of work necessary for the construction, storage of material and access to the construction site. As much as possible, the site shall be open to the public's use. If the contractor uses the existing access roads during construction, all steps necessary shall be taken to share these roads with the public. As necessary, the contractor shall provide a flagman to coordinate movements and insure the safe access to the public throughout the construction period. Contractor is made aware that the access roads are used by pedestrians, cyclists, wheelchairs, elderly and by the personnel of Parks Canada on foot and in vehicles.

1.6 Occupancy by Parks Canada Agency

- .1 The Blockhaus building will not be used by the PCA during the works; However, PCA will occupy the surrounding areas during the entire construction and will pursue its normal activities during this period.
- .2 The Contractor must take into account that the site will remain active during the construction period. The Contractor must determine a working methodology to do the work without affecting the daily operations of the area surrounding the building.
- .3 Collaborate with the PCA Representative when establishing the work schedule, so as to reduce conflicts and facilitate the use of the premises by PCA.

1.7 Alterations, additions or repairs to existing building

- .1 Execute work with least possible interference or disturbance to building operations, occupants, public and normal use of premises. Arrange with PCA Representative to facilitate execution of work.

1.8 Scope of Work

- .1 Without being exhaustive, the following list describes the scope of work to be performed. Complete the work in detail to deliver a complete, functional and efficient installation. Unless otherwise indicated, the work includes supply, installation and connection hardware as well as the dismantlement of identified existing facilities.
 - .1 Dismantle and replace damaged second floor beams.
 - .2 Dismantle the architectural finishes (floors, ceilings, etc.) and the electrical-mechanical equipment required to complete the structural work. The elements left in place must be protected. For example, but not exclusively, the contractor must protect the floors with a temporary covering and cover the light fixtures left in place with a sealed bag. Rebuild, reinstall and repaint to obtain the same finished look as it was before construction.
 - .3 Modify and reinforce the roof truss structure.
 - .4 Dismantle and rebuild the entrance stairs.
 - .5 Install new aluminum flashing to the perimeter of the foundation wall.
 - .6 Repair the mortar joint of the foundation wall.
- .2 As specified in the plans.
- .3 As the work progresses, the Contractor shall rid the site of demolition debris at his own expense and dispose of it off site. At the end of the work, the Contractor must pick up all that remains and clutters the site, including excess waste; He must leave the premises clean and undefiled.
- .4 The Contractor shall return in their original state, the areas and sectors used during construction. He must take knowledge of the nature and scope of patching work and perform all of the patching work necessary. Perform the finishing patching work using the same materials, colours, finishes and laying methods as the existing adjacent finishes.

1.9 Plans and technical specifications

- .1 Consider the plans and technical specifications as complementary and that all that appears either on the plans or in the technical specifications shall be included on the plans and in the technical specifications.
- .2 The drawings indicate, in general, the routing of services and the location of devices and equipment; they should not be considered working drawings. Determine the exact location on site of all equipments that do not appear on the plans.
- .3 Notify the PCA Representative of any errors or omissions it find in the plans and in the technical specifications, as well as any incompatibility and that, before the delivery of the bid.
- .4 Consider that the PCA Representative reserves the right to interpret the plans technical specifications.

1.10 Documents required

- .1 Maintain at job site, one copy each document as follows:
 - .1 Contract Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed Shop Drawings.
 - .5 List of Outstanding Shop Drawings.
 - .6 Change Orders.
 - .7 Other Modifications to Contract.
 - .8 Field Test Reports.
 - .9 Copy of Approved Work Schedule.
 - .10 Health and Safety Plan and Other Safety Related Documents.
 - .11 Other documents as specified.

1.11 Site meetings

- .1 Weekly project meetings are to be held throughout the progress of the work, as requested by the PCA Representative. Ensure the management of these meetings.

2. PRODUCTS

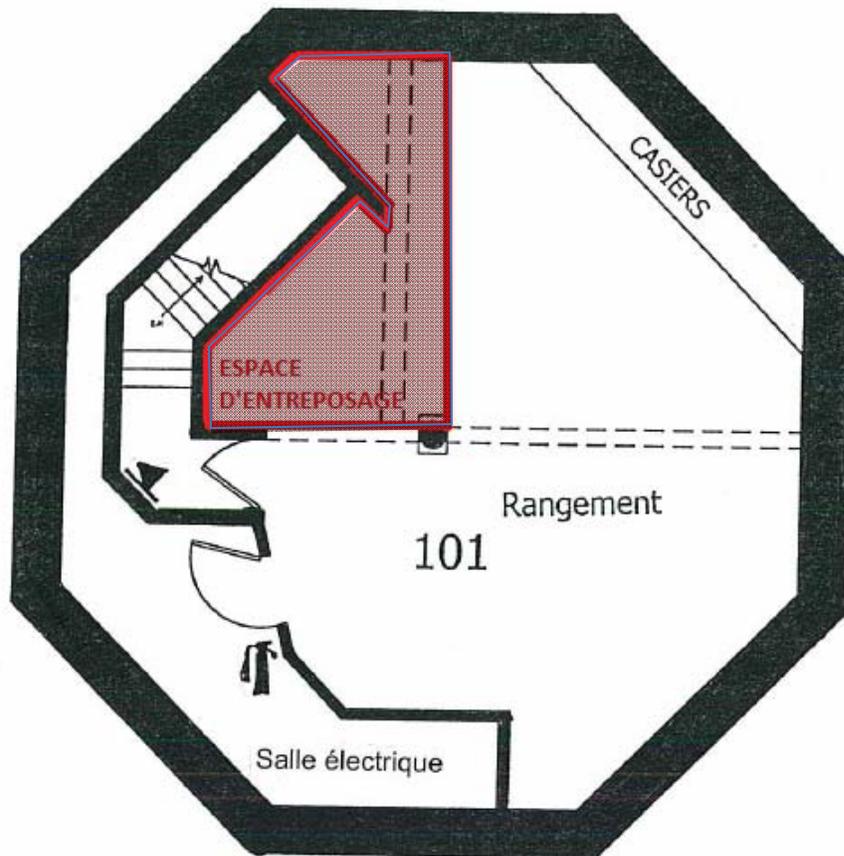
2.1 Not used

- .1 Not used.

3. EXECUTION

3.1 Not used

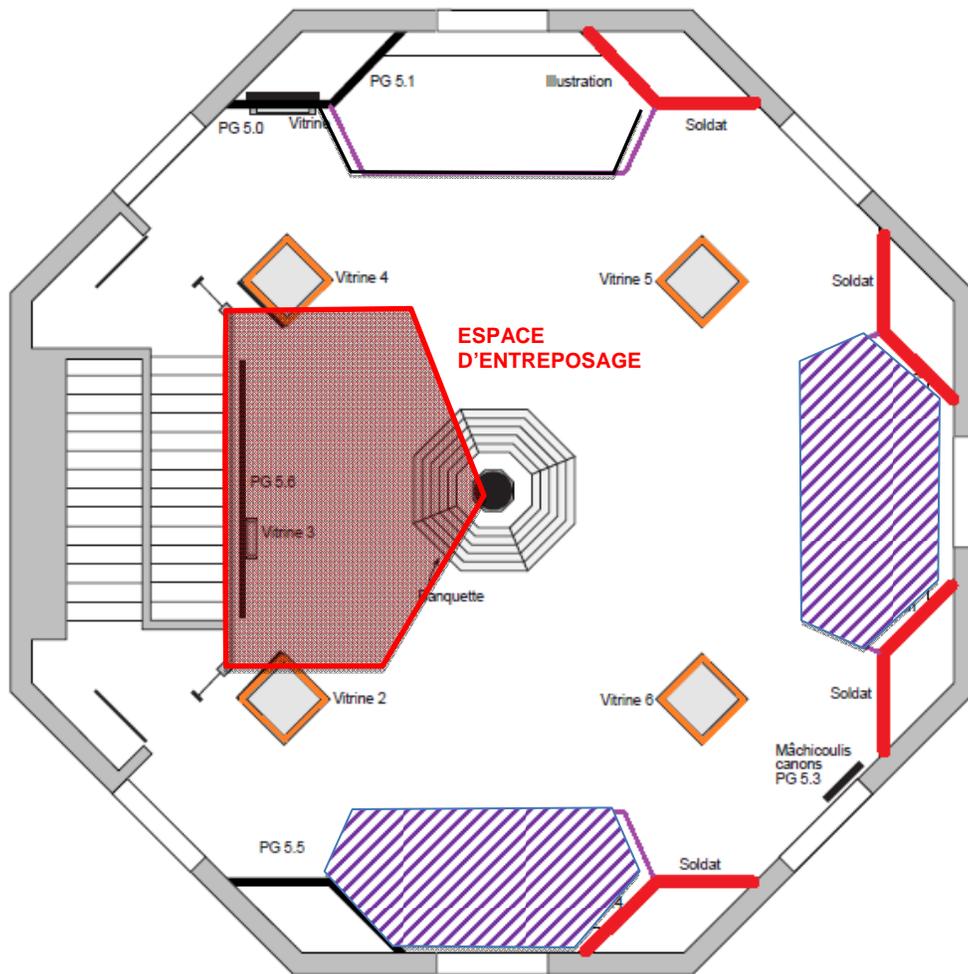
- .1 Not used.



BASEMENT PLAN

Not to scale

PCA will store all things found in the basement within the red zone illustrated above before the beginning of construction. All elements left in place will be protected by PCA. The contractor must take care not to damage the things left in place. The lockers will stay in place. The basement may be used by the contractor to store material, but PCA must have access at all times. Refer to clause 1.1.3.



-  PANNEAU D'EXPOSITION À ENTREPOSER
-  VITRINE D'EXPOSITION À PROTÉGER ET ENTREPOSER
-  SCÈNE À RETIRER ET À ENTREPOSER

2nd FLOOR
Not to scale

PCA will store all furnishings, display cases and exposition posters attached on the walls in the zone illustrated in red above, before the beginning of construction. All elements left in place will be protected by PCA. The contractor must take care not to damage any of the elements left in place. PCA must have access to this area in all times. Refer to clause 1.1.3.

PHOTOS



Exposition poster on the walls that will be removed. See plans above



Ground floor display case that will be stored by PCA

1. GENERAL

1.1 Action and informational submittals

- .1 Provide proposed cleaning method and type of protection from cleaning residue for in- place conditions.

1.2 Quality assurance

- .1 Regulatory Requirements: ensure work is performed in compliance with applicable Provincial regulations.
- .2 Mock-ups:
 - .1 Notify Site Supervisor 48 hours before commencing cleaning of each test patch. Obtain approval from Site supervisor before commencing test.
 - .2 Conduct tests to determine effectiveness of following parameters for cleaning of masonry: water pressure and temperature, nozzle types and spraying distances.
 - .3 Start with lowest impact tests and stop testing when desired level of cleaning is achieved. Stop testing immediately when damage occurs.
 - .4 Test brushing and spraying as an alternative to pressure washing. Submit test outcomes to Site Supervisor for review. Use method approved by Site Supervisor.

1.3 Ambient conditions

- .1 Do not use wet cleaning methods when there is threat of frost.

2. PRODUCTS

2.1 Materials

- .1 Use clean potable water free from contaminants.
- .2 Treat water which has high metal content before use in cleaning.
- .3 Use clean air, free of oil or other contaminants.

2.2 Hot water

- .1 Use water at 20°C.
- .2 Generate hot water in flash boiler or other suitable appliance.

2.3 Tools and equipment

- .1 Use only brushes with natural or soft plastic bristles.
- .2 Use only scrapers of wood or plastic.
- .3 Use water pumps fitted with accurate pressure regulators and gauges capable of being preset and locked at maximum specified levels. Water pumps to have rating of less than 150 kPa.
- .4 Use air compressors equipped with on-line oil filters to avoid spraying oil onto masonry.
- .5 Use gun equipped with pressure gauge at nozzle end.
- .6 Use plastic or non-ferrous metal piping and fittings.

3. EXECUTION

3.1 Site verification of conditions

- .1 Record existing conditions with photographs before and after cleaning. Notify Site Supervisor of potential complications with existing conditions.
- .2 Report to Site Supervisor conditions of deteriorated masonry or pointing not noted on Contract Drawings found before and during cleaning.
- .3 Obtain written approval of Site Supervisor before cleaning areas of deteriorated masonry.

3.2 Preparation

- .1 Protect operatives and other site personnel from hazards.
 - .1 Ensure good ventilation in work area.
 - .2 Ensure workers wear eye, head, face protection, protective gloves, coveralls, boots and respirator to relevant MSHA/NIOSH standards.

3.3 Protection of in-place conditions

- .1 Cover and protect surfaces and non-masonry finishes not to be cleaned.
- .2 Protect wood, glass, and metal adjacent to masonry.
- .3 Protect plants, gardens, shrubs from watering and chemicals.

3.4 Execution of cleaning

- .1 Proceed with cleaning in accordance with written instructions of methods, systems, tools and equipment approved by Site Supervisor.
- .2 Dry brush or scrape surface deposits on walls.
- .3 Pre-wet masonry surface when necessary. Work from bottom of wall upwards.
- .4 Do not exceed maximum pressure at nozzle or have nozzle closer to masonry than approved by Site Supervisor during tests.

- .5 Stop work when cleaning has detrimental effect on surrounding material and plants.
- .6 Soften and loosen heavy dirt and calcite deposit with extended water spraying, than brush stained surfaces. Remove thick deposits with wooden scrapers.
- .7 Removal of vegetation or organic growth growing in or on masonry.
 - .1 Soak masonry with low-pressure water.
 - .2 Follow soaking by gentle scrubbing with natural bristle brushes.
- .8 Low-Pressure Water Soaking:
 - .1 Remove stains accumulated dirt with low-pressure maximum 350 kPa wash- down at flow rate of 0.25 L/s. Hold nozzle minimum 450 mm from masonry surface.
 - .2 Used a fan-type nozzle with minimum 375 mm spread.
 - .3 Hold nozzle minimum 450 mm from masonry surface.

3.5 Cleaning

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 .1 Leave Work area clean at end of each day.
- .2 Rinse off masonry to satisfaction of Site Supervisor.
- .3 Rinse from bottom to top and from top to bottom.
- .4 Clean up work area as work progresses. At end of each work day remove debris and waste from site.
- .5 Upon completion, clean and restore areas used for work to condition equal to that previously existing.

3.6 Protection of work

- .1 Protect finished Work from damage until take-over.

1. GENERAL

1.1 Related requirements

- .1 Section 04 03 08 – Historic – Mortaring.

1.2 References

- .1 Definitions:
 - .1 Raking: removal of loose/deteriorated mortar to a depth suitable for repointing until sound mortar, and/or at least 25 mm and/or not more than 100 mm depth is reached.
 - .2 Repointing: filling and finishing of masonry joints from which mortar is missing, has been raked out or has been omitted.
 - .3 Tooling: finishing of masonry joints using tool to provide final contour.
 - .4 Low-pressure water cleaning: water soaking of masonry using less than 350 kPa (50 psi) water pressure, measured at nozzle tip of hose.
- .2 Reference Standards:
 - .1 CSA Group
 - .1 CSA A23.1/A23.2-09, Concrete Materials and Methods of Concrete Construction/Test Methods and Standard Practices for Concrete.
 - .2 CAN/CSA-A179-04(R2014), Mortar and Grout for Unit Masonry.

1.3 Quality assurance

- .1 Masonry Contractor:
 - .1 Call upon only one Masonry Contractor for masonry work at and.
 - .2 Masonry Contractor will to be capable of demonstrating his skills and will present three (3) realizations in historic stone masonry

work on project of similar size and complexity to Work of this contract during the last 10 years.

- .3 Masonry Contractor to have good level of understanding of structural behaviour of masonry walls when masonry work involves replacing or repairing stonework which are part of structural masonry work.

- .2 Masons:

- .1 Masons to have certificate of qualification with five (5) years minimum experience in historic stone masonry work.
- .2 Masons to have proof of license certification for proprietary restoration mortars.

- .3 Mock-ups:

- .1 Construct two (2) work samples 1,5 m x 1,5 m where indicated by the Site Supervisor to demonstrate raking and repointing procedures.
- .2 Provide Site Supervisor with at least 24 hours notice prior to construction of the mock-ups.
- .3 Allow 24 hours for inspection of mock-up by Site Supervisor before proceeding with masonry repointing work.
- .4 Accepted mock-up will demonstrate minimum standard for this work. Mock-up will remain as part of finished work.

1.4 Delivery, storage and handling

- .1 Deliver materials to site in original factory packaging, labelled with manufacturer's name, address.
- .2 Keep material dry. Protect from weather, freezing and contamination.
- .3 Ensure that manufacturer's labels and seals are intact upon delivery.
- .4 Remove rejected or contaminated material from site.

1.5 Ambient conditions

- .1 Maintain masonry temperature between 10 and 25 °C for duration of work.
- .2 Ambient temperature lower than 10°C: Store mortaring materials for immediate use within heated enclosure in accordance with section 04 03 08 – Historic – Mortaring and allow them to reach minimum temperature of 10 °C before use.
- .3 Only water can be heated before use. Provide hot water to a maximum 40 °C on site during cold weather.
- .4 Maintain mortar mix temperature between 5 and 40 °C.

2. PRODUCTS

2.1 Mortar

- .1 Mortar: in accordance with CAN/CSA-A179 and Section 04 03 08 -
Historic - Mortaring.

3. EXECUTION

3.1 Raking joints

- .1 Use manual raking tool to remove deteriorated and bonded mortar from masonry units. The use of saws is strictly prohibited.
 - .1 Remove deteriorated and adhered mortar from masonry surfaces to sound mortar maximum depth of 100 mm, leaving square corners and flat surface at back of cut.
 - .2 Clean out voids and cavities encountered.
- .2 Ensure that no stones and other masonry units are chipped, altered or damaged by work to remove mortar in joints.
- .3 Clean surfaces of joints by compressed air or water under low pressure without damaging texture of exposed joints or masonry units.
- .4 Flush open joints and voids; clean open joints and voids with low pressure water and if not free draining blow clean with compressed air.
- .5 Leave no standing water.

3.2 Repointing

- .1 Dampen joints as well as masonry units.
- .2 Keep masonry damp while pointing is being performed.
- .3 Completely fill joint with mortar. Use type "N" mortar.
 - .1 If surface of masonry units has worn rounded edges keep pointing back from surface to keep same width of joint
 - .2 Avoid feathered edges.
 - .3 Pack mortar firmly into voids and joints.
- .4 Build-up pointing in layers not exceeding 25 mm in depth.
 - .1 Allow each layer to set before applying subsequent layers.
 - .2 Maintain joint width to full depth.

- .5 Tool and finish joints to match existing joints or as directed by Site Supervisor.
- .6 Remove excess mortar from masonry face before it sets.

3.3 Protection during curing process

- .1 Cover completed and partially completed work not enclosed or sheltered at end of each work day. Membranes be tightly installed to prevent finished work from drying out too rapidly.
- .2 Cover with waterproof tarps to prevent weather from eroding recently repointed material.
 - .1 Maintain tarps in place for minimum of 2 weeks after repointing.
 - .2 Ensure that bottoms of tarps permit airflow.
- .3 Anchor coverings securely in position.
- .4 Damp cure:
 - .1 Provide damp cure for pointing mortars.
 - .2 Install and maintain wetted burlap protection during the curing process and over minimum three (3) days.
 - .3 Wet mist burlap only - ensure no direct spray reaches surface of curing mortar.
 - .4 Shade areas of work from direct sunlight and maintain constant dampness of burlap.
- .5 Protect from drying winds. Pay particular attention at corners of structure.
- .6 Maintain ambient temperature of minimum 10 °C after repointing masonry for:
 - .1 Minimum 3 days in summer.
 - .2 Minimum 30 days in cold weather conditions using dry heated enclosures.

3.4 Cleaning

- .1 Clean surfaces thoroughly of mortar droppings, stains and other blemishes resulting from work of this contract on a daily basis, as work progresses.
- .2 Remove droppings and splashings using clean sponge and water.
- .3 Do further cleaning using stiff natural bristle brushes after mortar has attained its initial set and has not fully cured.
- .4 Clean masonry with stiff natural bristle brushes and plain water and soft natural bristle brush
- .5 Clean masonry with low pressure 15 to 45 lb/po² clean water and soft natural bristle brush.

3.5 Protection of completed work

- .1 Protect adjacent finished work against damage which may be caused by on-going work.

1. GENERAL

1.1 Related requirements

- .1 Section 04 03 07 – Historic – Masonry repointing.

1.2 Alternates

- .1 Obtain Site Supervisor's approval before changing manufacturer's brands or sources of supply of mortar materials during entire contract or other methods of mixing mortar specified elsewhere in this specification.

1.3 References

- .1 CSA International
 - .1 CAN/CSA-A179-04(R2009), Mortar and Grout for Unit Masonry.

1.4 Technical data sheet/Sampling

- .1 Submit technical data sheets of products used at least fifteen (15) days prior to commencing work.
- .2 Submit color samples of each mortar type (for the foundations and for the wood siding) for approval by the PCA Representative at least 15 days prior to commencing work.

1.5 Testing standards

- .1 Flow and cube strength: to ASMT C 270
- .2 Vicat cone test: to ASTM C780.
- .3 Cube strength: to CAN/CSA-A179, annexe B.
- .4 Flexural bond strength: to ASTM C1072.

1.6 Ambient conditions

- .1 Execute work when ambient temperature is above 10 °C. When ambient temperature is below 10 °C, cover and heat work as directed by Site Supervisor.
- .2 Prepare and maintain temperature of mortar between 5 and 40 °C until used.
- .3 Maintain the temperature of receiving surface and mortar between 10 and 25 °C for 72 hours after application in summer and for 30 days in winter.

2. PRODUCTS

2.1 Mortar

- .1 Mortar for the foundation wall: Type N joint and bedding mortar: based on proportion specifications, consisting of 1 part off white Portland cement, 1 part lime, and 6 parts sand.
- .2 Mortar for the wood siding: Type O joint and bedding mortar: based on proportion specifications, consisting of 1 part off white Portland cement, two (2) parts lime, and nine (9) parts sand.
- .3 All dry mortar materials shall be premixed at the plant, bagged and originate from one (1) only manufacturer.

2.2 Compressif strength

- .1 Compressive strength measured on collected samples shall comply with the following:
 - .1 Type N mortar:
 - .1 compressive strength 2 MPa at 7 days
 - .2 compressive strength 3,5 MPa at 28 days
 - .2 Type O mortar:
 - .1 compressive strength 2,5 MPa at 28 days.

2.3 Air content

- .1 Type N mortar: 18 % maximum.
- .2 Type O mortar: 14 % maximum.

3. EXECUTION

3.1 Lime mortar batching

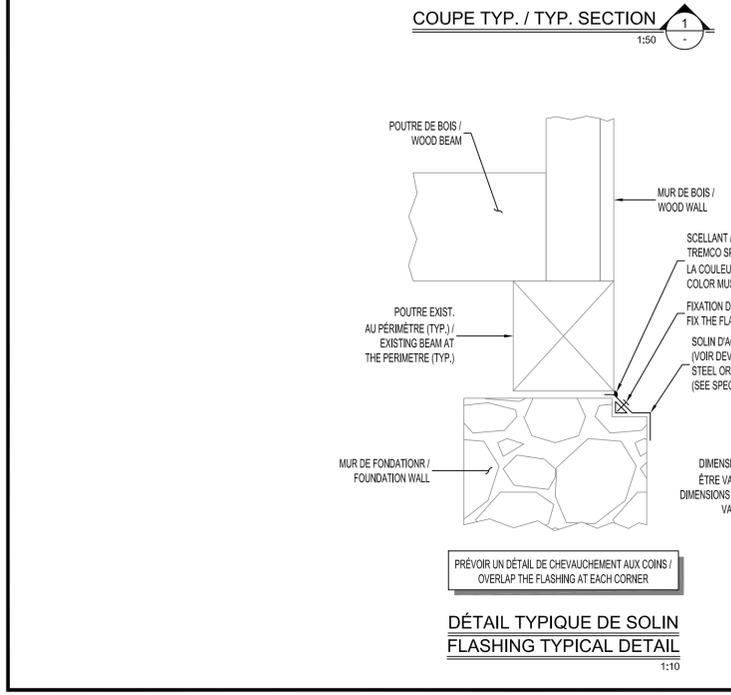
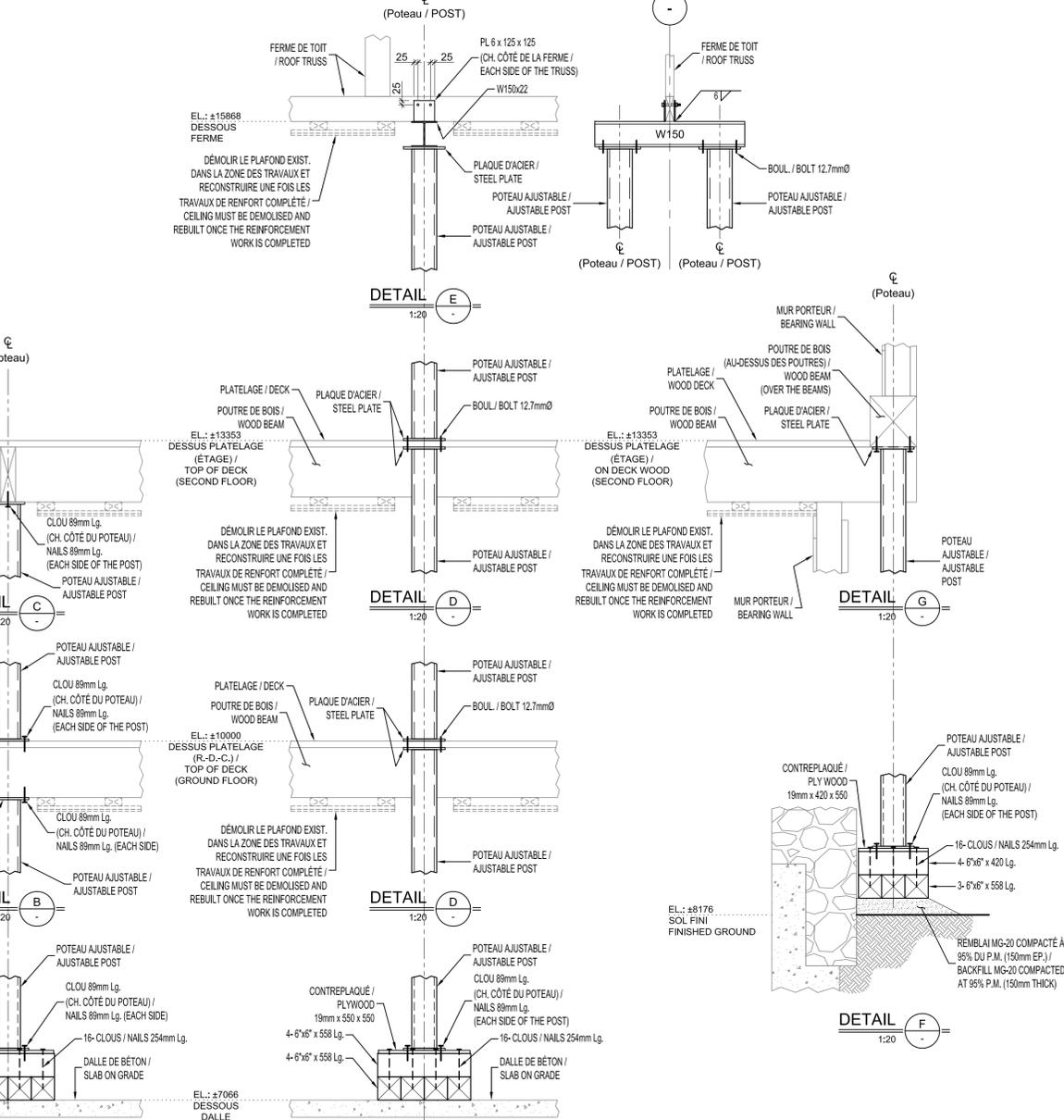
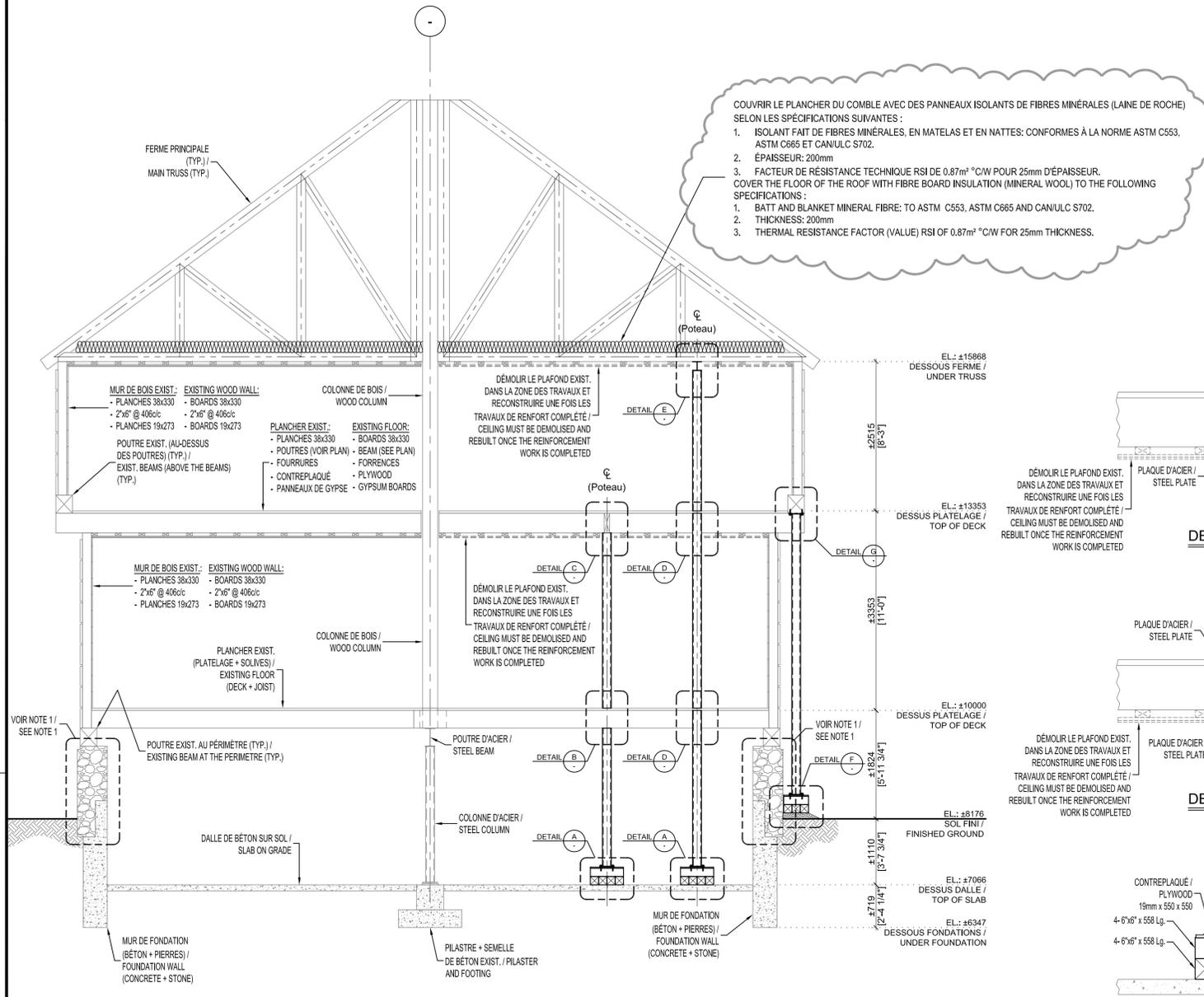
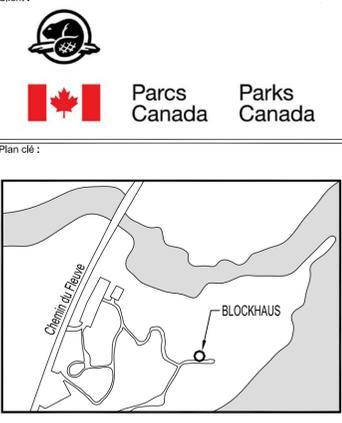
- .1 Mix mortar in a clean mortar mixer. Use potable water in quantities recommended by the manufacturer and mix as indicated.

3.2 Polyurethane mortar batching

- .1 Mix mortar components to manufacturer's recommendations.

3.3 Cleaning

- .1 Remove droppings and splashings using clean sponge and water.
- .2 Clean masonry with low pressure 15 to 45 psi clean water and soft natural bristle brush.



Professionnels :

REV.	DATE	ÉMISSIONS	PAR	VER.	APP.	
C	2016-07-14	Addenda #		JPB	LPP	LPP
B	2016-07-04	Addenda #		JPB	LPP	LPP
A	2016-06-16	Plan Soumission / For Tender		DO	LPP	LPP

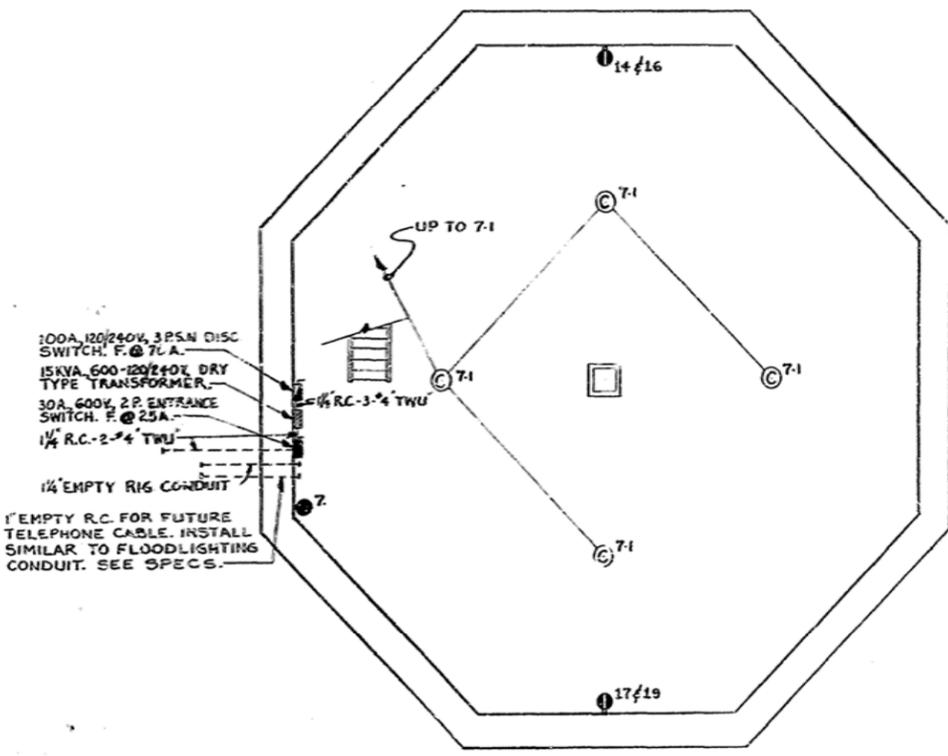
Scale(s):

SNC-LAVALIN
455, boul. René-Lévesque Ouest
Montréal (Québec) H2Z 1Z3
Tél. : 514 393-1000
Télééc. : 514 390-6520
www.snc-lavalin.com

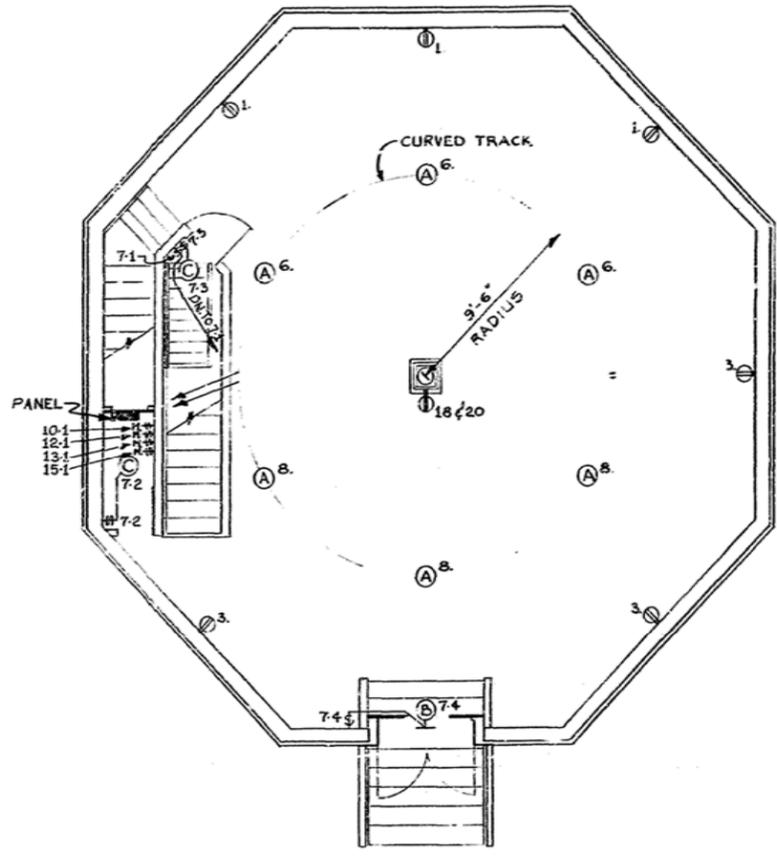
SITE HISTORIQUE DE COTEAU-DU-LAC
RÉFECTION DU BLOCKHAUS

STRUCTURE
COUPES ET DÉTAILS
SECTIONS AND DETAILS

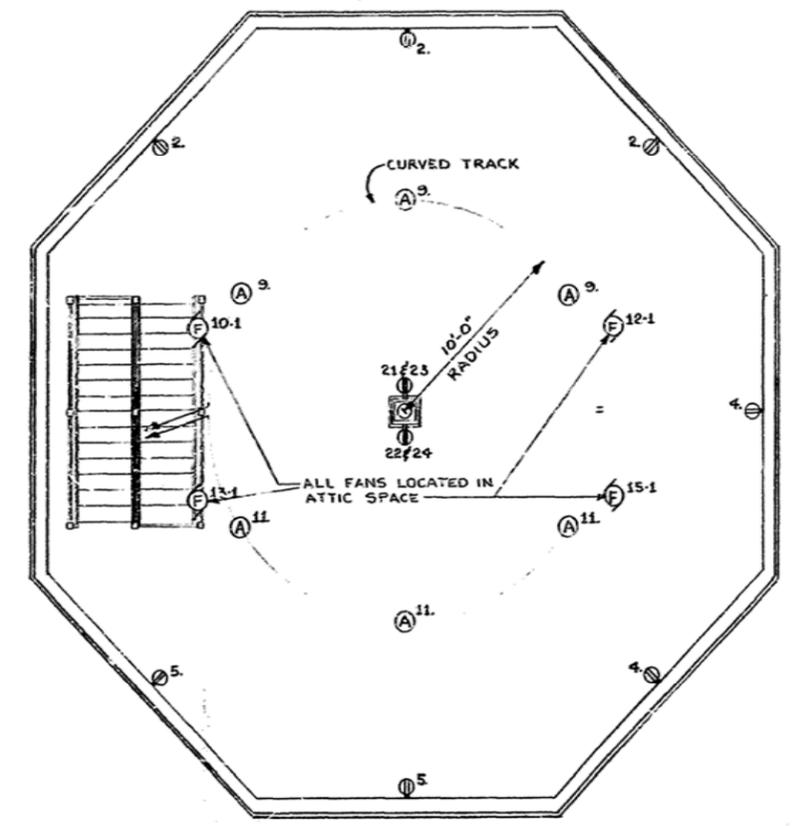
Dessiné par : Dominic Ouellet	Date orig. : Juillet 2015
Conçu par : Dominic Lanthier, ing. jr.	Chargé de projet : Louis-Philippe Poirier, ing.
Vérifié par : Louis-Philippe Poirier, ing.	Projet n° : 630584-0000
Approuvé par : Louis-Philippe Poirier, ing.	Référence : -
Échelle : Indiquée	Dessin n° : 630584-0000-ST-200
	Rév. n° : -



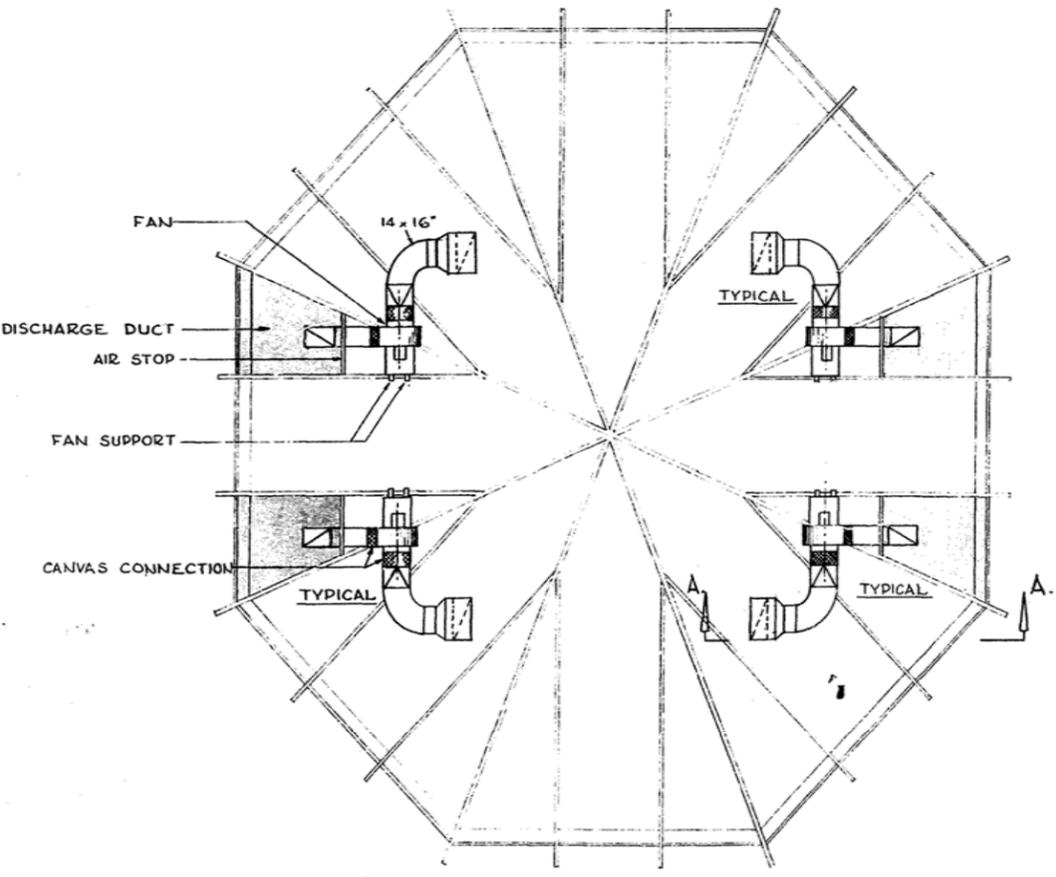
BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"



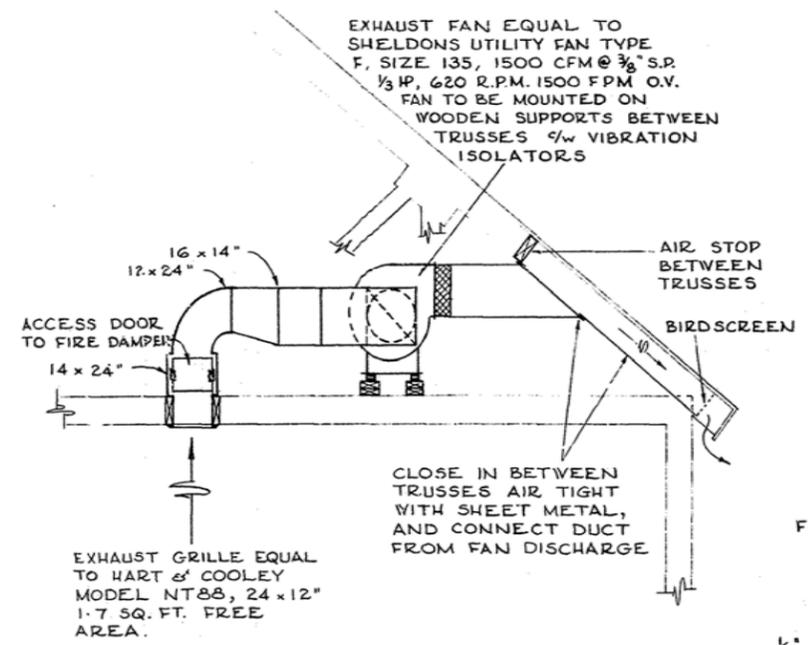
FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



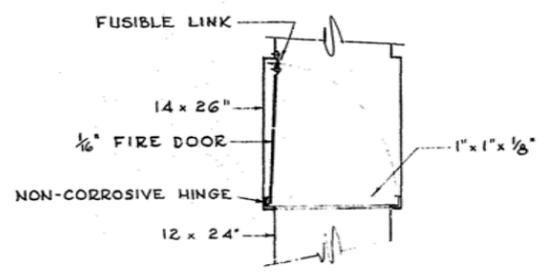
SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



ATTIC PLAN



SECTION A-A



FIRE-DAMPER DETAIL

LEGEND

- (A) TRACK FIXTURE - EQUAL TO LIGHTOLIER 'DRAMALUX' CAT. #7232, MATTE WHITE FINISH FOR CANOPY MOUNTING ON CURVED SURFACE MOUNTING LYTESPAN TRACK WITH I-150W. PAR 36/2 COOL BEAM FLOOD LAMP.
- (B) SHACKET TYPE FIXTURE, BLACK FINISH WITH ANODIZED REFLECTOR, I-100W. LAMP, FLUSH MOUNT BOX SO FIXTURE IS CLEAR OF DOOR WAY, LIGHTOLIER 'MODULITE' CAT. #2825.
- (C) PORCELAIN KEYLESS LAMP RECEPTACLE FOR I-100W. LAMP, FLUSH MOUNT BOX WITH FINISHED CEILING WHERE POSSIBLE. IN BASEMENT MOUNT FLUSH WITH BOTTOM OF JOISTS, SMITH & STONE CAT. #1-1353.
- (D) DUPLEX PLUG RECEPTACLE, FLUSH MOUNT BOX HORIZONTALLY 6\"/>

NOTE: THE 5-2KW. 240V. HEATERS SHALL BE SUPPLIED AND INSTALLED BY OTHERS.