



**TENDER FOR
TOWN OF MATTAWA
NEW STAGE PLATFORM AND PERGOLA**

PROJECT NO. 17-1077K

CONTRACT DOCUMENTS

March 2020

**TENDER FOR
TOWN OF MATTAWA
NEW STAGE PLATFORM AND PERGOLA**

PROJECT NO. 17-1077K

March 2020

Jp2g Consultants Inc.
Engineers • Planners • Project Managers
c/o Ed Schulz
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Town of Mattawa
c/o Raymond Bélanger, CAO/Treasurer
160 Water Street
Mattawa, Ontario P0H 1V0
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**TENDER FOR TOWN OF MATTAWA
NEW STAGE PLATFORM AND
HEAVY TIMBER PERGOLA**

PROJECT No. 17-1077K

Sealed Tenders plainly marked "**Tender Enclosed / Town of Mattawa, New Stage and Pergola Project No 17-1077K**", will be received by The Town of Mattawa until:

Tuesday, April 7, 2020 at 5:00 p.m.

To supply all material and labour required for the construction of a new concrete stage platform and heavy timber pergola, site restoration and re-shingle existing Mattawa Museum roof.

A **mandatory** site visit for all bidders will be held on **Monday, March 23, 2020 at 11:00 a.m. local time** at the site, Mattawa Museum, Mattawa Ontario.

Complete tender documents will be available at the Town of Mattawa Municipal Office, 160 Water Street or from Jp2g Consultant Inc. by phoning 613-735- 2507 on payment of a non-refundable deposit of \$50.00 per set. Cheques should be made payable to The Corporation of the Town of Mattawa.

Tenders will be opened at The Corporation of the Town of Mattawa Municipal Office, 160 Water Street Mattawa Ontario on **Wednesday April 8, 2020 at 3:00 p.m.**

The successful bidder will be required to furnish, upon award, a certified cheque for 10% of the tender amount, made payable to the Corporation of the Town of Mattawa to be held until total completion of the project.

Tenders must be submitted on the Tender Form provided, accompanied by a tender deposit in the form of a **Certified Cheque for 5%** of the total Tender amount as noted in the Instruction to Tenderers, made payable to The Corporation of the Town of Mattawa.

The lowest or any tender shall not necessarily be accepted.

Jp2g Consultants Inc.
c/o Mr. Ed Schulz
Engineers • Planners • Project Managers
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Pembroke, Ontario K8A 6W5
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Town of Mattawa
c/o Raymond A. Bélanger, CAO/Treasurer
160 Water Street
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SPECIFICATIONS

Division 01 – General

<u>Section</u>	<u>Title</u>	<u>Pages</u>
01000	Instructions to Tenderers	8
01001	General Requirements	8
	Form of Tender	11
	Bidders Check List	1
01004	Contingency Testing Allowance	1
01510	Temporary Facilities	2
07313	Asphalts Shingles	4
07620	Sheet Metal Flashing and Trim	3

DRAWINGS

Structural	- Existing and Removals	S-1
	- Foundation Plan	S-2
	- Main Stage Plan	S-3
	- Elevations	S-4
	- Elevations and Details	S-5

APPENDICES

Appendix A	Canadian Standard Construction Document CCDC 2, 2008
Appendix B	Sketch SK-1 and SK-2, Existing Museum Facia

01 Scope

- .1 The successful Tenderer shall enter into a Contract with The Corporation of The Town of Mattawa to supply all material and labour required for the construction of the a New Stage Platform and Heavy Timber Pergola. Work shall include the supply of all material and labour to demolish existing remaining structure and construct a new stage / platform area with a timber structure as shown on drawings and noted in specifications.
1. Removal and disposal of existing remaining wood beams connected to museum and repair fascia.
 2. Repairs to existing museum fascia/soffit in areas were existing wood beams removed to match existing surface (cedar, shingles and stain).
 3. Protection of all existing electrical site wiring (presently laying on ground surface) and existing electrical panel distribution wood enclosures.
 4. Removal and salvaging of existing walkway pavers, stack existing pavers on wood pallets for reuse under contract or Owners removal from site if not shown to be reused. Storage location to be determined at site meeting (**see Tender Form for alternate pricing on Strong Wall system**).
 5. Removal and salvaging of existing retaining wall stones, stack stones on wood pallets for reuse under contract or Owners removal from site if not shown to be reused. Storage location to be determined at site meeting.
 6. All excavation and disposal of unused material, supply and place new granular backfilling, sand bedding and clear stone material and compaction for new platform and Strong-Wall system.
 7. Supply and installation of new stone strong wall system by M-Con for new stage platform including excavation, backfilling, compaction of new stone wall bedding, drainage tile and filter cloth system as detailed on drawings.
 8. Supply and installation of a new 3'-0" high fence in areas more than 2'-0" above grade and 3'-6" high fence along existing stone wall in areas greater than 6'-0" above grade. Fence to be as manufactured by Iron Eagle Industries- Eagle III Series Golden III P/R to match existing flag-pole memorial.
 9. New barrier free ramp to stage area.
 10. Bury all existing electrical wiring in new 4" conduct in areas under new stage including sand bedding per Hydro One requirements including Hydro permits and new Nema 4 enclosure for existing electrical panels.
 11. Supply, placement and compaction of new granular material in area of new stage platform to receive new concrete surface within new platform area (**see**

Tender Form for alternate pricing on paving stones).

12. Supply and install new reinforced concrete piers to receive new heavy timber pergola structure as detailed.
13. Co-ordination of design, supply and installation of new Heavy Timber Framed Pergola structure.
14. New 2" x 6" t&g wood decking on timber pergola and metal roofing.
15. Regrading and compaction of existing site to a maximum of a 1:12 slope in areas shown on drawings and placement of 4" topsoil and sod, including watering of sod for two months.
16. Restoration of all areas damaged during construction to original condition.
17. Supply all material and labour required to replace existing shingle roof on Museum.

- 2 Owner .1 Wherever the word "Owner" is used it shall refer to "**The Corporation of the Town of Mattawa**" or their agent.
- 3 Engineer/Consultant .1 The Engineer/Consultant is **Jp2g Consultants Inc.**
- 4 Location of Work .1 The work is to be done along the north side of the Museum in the Town of Mattawa, Ontario.
- 5 Contract .1 The successful Tenderer will be required to enter into a Contract for the work. The Contract to be used shall be the Stipulated Price Contract CCDC 2, 2008 including all documents attached hereto and as noted as Tender Documents below.
- 6 Tender Documents .1 The Tender Documents include the CCDC 2, 2008 Contract, the Instructions to Tenderers, General Requirements, Specifications, Form of Tender and the Drawings listed in the Table of Contents hereto and the Labour Conditions and Schedule of Wage Rates are all complimentary and shall be read together.

The drawings included in the Tender Documents are as shown in the Table of Contents.

Tender documents are available at the Office of:

The Corporation of the Town of Mattawa
160 Water Street
Mattawa, Ont. P0H 1V0

or

Jp2g Consultants Inc.

Engineers · Planners · Project Managers
12 International Drive
Pembroke, Ont. K8A 6W5

- 7 Completion .1 **The New Stage Platform and Pergola is to be completed by Friday July 10, 2020.**
- 8 Examination of Documents and Site .1 The submission of a Tender shall indicate that the Tenderer agrees and warrants that they have examined the site and all conditions relevant thereto, and all the separate documents, drawings, specifications and addenda and that the bid submitted covers the cost of all the items required in the Contract. No claims for extras will be entertained on account of conditions which could be observed on the site at the time Tenders were submitted.
- .2 **A Mandatory site meeting** will be held on **Monday, March 23, 2020 at 11:00 A.M. local time** at the site in Mattawa.
- 9 Discrepancies and Omissions .1 Report to the Consultant in writing all discrepancies, omissions, errors, departure from Building By-Laws or good practice and points considered to be of dubious intent, so that the Consultant may, if he considers it desirable, issue instructions by Addendum. The Consultant will not be responsible for oral instructions.
- .2 Misinterpretations of any requirement of the Contract documents will not be considered a release of responsibility to complete the work as indicated. If in doubt about intent of documents, contact the Consultant before Tender closing so he/she may, if necessary; issue an Addendum to clarify ambiguities.
- 10 Amendments to Tender .1 All clarifications, or other instructions issued by the Consultant during the time of Tendering will be in writing by form of an Addendum and will be issued to all who have been issued with Tender documents.
- .2 Tenderers may, during the tendering period, be advised by Addendum of required additions to, deletions from or alterations in the requirements of the Tender Documents. All such changes shall become an integral part of the Tender Documents and shall be allowed for in arriving at the Fixed Sum Tender Figure.
- .3 **Tenderers shall insert**, in the space provided in the Tender Form, the Addendum numbers of all Addenda received by them during the tendering period including any bound into the Specifications. If **no** Addenda have been received, the word **"None"** shall be inserted in the space provided.
- 11 Enquiries .1 All enquiries during the tendering period shall be directed to:

Jp2g Consultants Inc.
Engineers · Planners · Project Managers
12 International Drive
Pembroke, Ontario K8A 6W5
Telephone: (613) 735-2507
Facsimile: (613) 735-4513
Attention: Ed Schulz
Email: eschulz@jp2g.com

12 Submission
of Tenders

- .1 **The Tenderer shall submit the following items duly completed as part of his/her Tender Submission:**
 - Form of Tender
 - Tender Deposit/Certified Cheque for 5% of the Tender amount
 - Signed copy of all Addenda received
 - Completed and signed Bidders Check List
- .2 Tenders must be submitted on the Form of Tender provided with the documents and all blank spaces on the Form must be completed legibly.
- .3 Tenders must be submitted in a sealed envelope marked as to contents: **(Tender Enclosed: New Stage Platform and Pergola, Town of Mattawa, Project No 17-1077K).**
- .4 Tenders will be received by the Owner until: **Tuesday, April 7, 2020 at 5:00 P.M.**
- .5 Tenders must be signed by a person legally authorized to commit the Tenderer to all conditions of the Contract.
- .6 Tenders may **not** be submitted by telegram or fax, but if a formal Tender on the prescribed Tender documents, accompanied by the specified Tender Deposit, is received from a Tenderer by the designated office before the established time for closing of Tenders, that Tenderer may make amendments to his Tender by telegram, letter or facsimile provided that such telegram, letter or facsimile is received by the designated office (Town of Mattawa) prior to the established time for closing of Tenders.
- .7 Each Tender shall state the FIXED PRICE/PRICES for which the Tenderer will undertake to carry out all the work as described and/or shown in/on the Tender Documents.
- .8 All prices (unless otherwise specifically requested in the Tender documents) shall be **“Work Completed”** prices and shall be understood to include all materials, labour, permits and other expenses, including all Sales Taxes, fees, insurance, compensation and other items required by governing regulations, as well as overhead and profit for the work concerned. Unit prices shall apply to additions to, or deductions from, the Contract as directed by the Consultant.

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- 13 Acceptance of Tenders .1 The Tenders will be judged by the Town of Mattawa Council as to the successful Tenderer and their decisions, if any, shall be final. Tenders will be opened **Wednesday April 8, 2020 @ 3:00 P.M.**
- .2 The Town of Mattawa Council reserves the right to reject any or all Tenders.
- THE LOWEST OR ANY TENDER WILL NOT NECESSARILY BE ACCEPTED. NOTE: THIS PROJECT SUBJECT TO FINAL FUNDING APPROVAL**
- .3 All Tenders submitted shall be valid from the date of closing for the period as stipulated in the Form of Tender as 45 days.
- .4 The Town of Mattawa Council reserves the right to:
- a. Disqualify any Tenders not submitted in strict accordance with the requirements of the Tender Documents.
 - b. Require each Tenderer to submit evidence of their and their proposed Subcontractors, experience and capabilities in similar work previously executed.
- 14 Tender Deposit .1 A **Certified Cheque for 5%** of the Tender amount as a **Tender Deposit** made payable to the Owner **shall be included with the Tender submission**
- 15 Performance .1 The successful Tenderer must furnish a **Certified Cheque** for **10%** of the Tender amount made payable to **The Town of Mattawa** as performance security should they be awarded the Contract.
- 16 Insurance .1 The successful Tenderer shall provide, at his own expense, all general liability insurance, equipment insurance and automobile insurance.
- The General Liability Insurance for this project shall have a limit of not less than \$5,000,000.00 per occurrence. Jp2g Consultants Inc. and The Corporation of the Town of Mattawa to be named as co-insured.
- 17 Taxes, Permits, Fees .1 The Tenderer shall include in his Tender price the full cost of all applicable taxes, hydro one permits, development charges, landfill tipping fees, application for building permit (there will be no fee for building permit, however, Contractor to apply for permit) and fees to complete all work under this Contract including publication of Substantial Completion Certificate. Payment of the Harmonized Sales Tax will be made to the Contractor in conjunction with amounts due on Monthly Payment Certificates as approved by the Consultant.

- The amount of Harmonized Sales Tax due will be shown as a separate item on the Monthly Payment Certificate.
- 18 Warranty .1 The Contractor shall correct any defect in the work due to faulty products and/or workmanship appearing within one (18 months) one and a half years from the date of **Final Completion** of the work of this Contract.
- .2 The Contractor shall correct and pay for any damage to other work and or structures resulting from any such defect or the correcting of defects.
- .3 The necessary warranties, guarantees and operating instructions (if required) must be obtained by the Contractor at his own expense and transferred to the Owner on completion of this project. The Contractor shall provide a one year warranty on faulty materials and workmanship, dated from the date of **Final Completion** of the Contract (**not the date of substantial completion**).
- 19 Extended Warranty .1 The Contractor shall provide the Owner with extended guarantees as required by these Contract Documents and noted in the various sections.
- 20 Manufacturer Data and Guarantee .1 The Contractor shall deliver three (3) English copies of all manufacturer's specified data, maintenance instructions, shop drawings and guarantees bound in three (3) three-ring binders to the Consultant at the time of presentation of Final Certificate (if required by Consultant).
- 21 Record Drawings .1 The General Contractor shall mark "**record drawings**" showing changes neatly and legibly in red ink on two sets of prints as they occur. These sets of prints shall provide a complete and accurate record of the construction and buried location of buried services, (existing and new), and shall be labelled "Record Drawings". They shall be submitted to the Consultant when the project is completed or at time of Final Acceptance.
- 22 Payments to Contractor .1 The Owner shall be in possession of all Insurance Policies as a condition of payment of the first or any claims.
- .2 The Contractor shall submit with his applications for payment (commencing with the second application) a Statutory Declaration stating that:
- a. All the Subcontractors, labour, and accounts for material whatsoever entering into the construction of that portion of the work covered by the said Contract as set forth in the progress estimate passed last previous to the one attached hereto have been duly paid; and
- b. All amounts owing for Worker's Compensation,

employees' income tax deducted at source, unemployment insurance deducted from wages and salaries, vacation with pay allowance and all other charges of whatsoever nature due or payable by reason of the performance of that portion of the work covered by the said Contract as set forth in the progress estimate passed last previous to the one attached hereto have been duly deducted and/or paid according to law.

- .3 The Contractor shall submit with his application for final payment in addition to the Statutory Declaration referenced above:
- a. A Workers' Compensation Board Clearance Certificate,
 - b. Any additional supporting documents that the Consultant may reasonably require.
- .4 Payments will be made monthly to the extent of ninety percent (90%) of the amount of work done in the immediately preceding thirty (30) days and the balance will be paid following the expiration of the statutory limitation period stipulated in the lien legislation applicable to the place of the work, (eg. in Ontario), sixty (60) days after **total completion** of the project or publication of substantial completion of the Contract provided no undischarged liens are registered against the property within the period and invoices are submitted showing the percentage of the trade breakdown which have been completed.

23 Holdback

- .1 In accordance with the Construction Lien Act, a holdback of 10% of the Contract price shall be held by the Owner for a period of **60 days commencing on the date of publication by the Contractor of the Certificate of Substantial Performance in a construction trade newspaper or 60 days after total performance of the work** if the notice of substantial completion is not published. At the end of the 60 day waiting period the Contractor shall submit an invoice for the amount of the holdback at which time a Statutory Declaration shall also be submitted ensuring there are no liens against the job.
- .2 The Contractor shall submit to the Owner a current WSIB Certificate prior to release of the holdback outlined above.
- .3 The as-built drawings, manufacturer's data, maintenance instruction, and guarantees shall be delivered to the Owner before the holdback is released.

24 Materials

- .1 Where the prices and quality of goods, services and

continuing supply are equal, Canadian goods shall have preference over foreign goods, similarly, local goods shall have preference.

- .2 This is a stipulated sum specification. Materials or articles specified by brand name or catalogue number and/or manufacturer's or supplier's name, shall form the basis of the Contract. Where more than one brand name, catalogue number, manufacturer or source is specified for the same material or article, the Contractor must select the one of his choice, and must state this choice in his Tender.
- .3 Include all cost of materials, whether available or not at the present time, in the Contract. Make substitutions if and when necessary on written order and make adjustments accordingly to Contract sum.

25 Schedule of Work

- .1 Upon being awarded the Contract, the Contractor shall meet with the Consultant and shall arrange an approved schedule of work before commencing any work. Site Office, storage and workers toilet facilities shall also be approved at this meeting.
- .2 Contractor to verify with Consultant and schedule and administer project progress meetings. Contractor to record minutes, include significant proceedings and distribute copies of minutes within three days after each meeting to those in attendance and Consultant.
- .3 Upon award of Contract and at first site meeting, Contractor to provide the Consultant with a Progress Statement Cost Breakdown showing all stages of work and associated job costs. This statement will be used to determine the work completed to date as determined by the Consultant.
- .4 Contractor to submit schedule for interruptions to existing facilities for approval by Consultant and Owner prior to proceeding with work.

26 Emergency and Access Lanes

- .1 Contractor to provide and maintain at all times during construction, emergency and access lanes for fire vehicles and service vehicles as well pedestrian traffic.
2. Contractor to ensure that the Owner will have full unrestricted use and access to the building and the site to allow continued maintenance during the work.

END OF SECTION

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| <u>1</u> <u>General</u> | .1 | All conditions of the contract apply to the work of this Section. |
| | .2 | Conform to the General Conditions of the Canadian Standard Form of Construction Contract for a Stipulated Price Contract CCDC 2, 2008, as amended by the Supplementary General Conditions. |
| | .3 | Study all Contract Documents to determine additional work required by your Section upon which the work of other Sections depend. These specifications are not broken out specifically for each trade. It is the <u>General Contractors</u> responsibility to ensure that all items required to complete the work are included in their tendered price and all trades are aware of their scope of work. |
| | .4 | Establish rates of wages and conditions of work in accordance with the Schedule of Labour Conditions. Wherever possible give preference to local labour and suppliers. |
| | .5 | Workmanship shall be of highest quality in accordance with best standard practice for this type of work, except where specified more precisely. |
| | .6 | All materials shall be exactly as specified on drawings or approved equal by Consultant and or Owner. |
| | .7 | Wherever possible the Contractor shall give preference to the use of local labour, suppliers and sub trades. The General Contractor and all Subcontractors shall adhere to the hours of work, the working conditions, and rate of wages paid under prevailing local conditions and/or requirements, paying not less than minimum wages established by law under the minimum wage law. |
| <u>2</u> <u>Division of Work</u> | .1 | Sectioning of Specification is for convenience and to facilitate reference by Contractor's forces and those of the Consultant. Each section may contain more or less than the complete work of any trade. Practice of providing sub-contractors with excerpts from specifications and/or drawings is prohibited. Read drawings and specifications as a whole by all parties concerned. It is solely the responsibility of the Contractor (known as General Contractor) to make clear to the sub-contractors precisely what is required of them. Any and all materials, equipment and labour shown on the drawings or in the specifications and not provided by the sub-contract is the responsibility of the General Contractor. Claims for additional compensation arising from disputes between trades due to lack of co-ordination by the general Contractor will not be considered. |
| <u>3</u> <u>Project Coordination</u> | .1 | Coordinate progress of the Work, progress schedules, submittals, use of site, temporary utilities and construction facilities. |

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- .2 Cooperate with and coordinate with other trades as required for the satisfactory and expeditious completion of the work. Take field dimensions relative of this work. Fabricate and erect work to suit field dimensions and field conditions. Provide all forms, templates, anchors, sleeves, inserts and accessories required to be fixed to or inserted in the work and set in place or instruct the related trades as to their location. Pay the cost of extra work caused by and make up time lost as the result of failure to provide the necessary co-operation, information or items to be fixed to or built in, in adequate time.
- 4 Drawings and Specifications
- .1 The drawings and these specifications shall be considered an integral part of the contract documents. Neither the drawings nor the specifications shall be used alone. Any specific item or work omitted from one and which is mentioned or reasonably implied in the other shall be considered as properly and sufficiently specified and must be provided by the General Contractor. Misinterpretation of any requirements of either plans or specifications shall not relieve the Contractor of his responsibility of properly completing his work to the approval of the Consultant.
- .2 These Specifications are not intended as a detailed description of installation methods but serve to indicate particular requirements in the completed work.
- .3 Conform to Ontario Regulation 332/12 (latest revisions) made under the Building Code Act, hereafter referred to as the "Code". Where Ontario Building Code or the Contract Documents do not cover a particular requirement, which is covered by the National Building Code, 1995 (latest revisions), conform to the requirements of N.B.C. including its related supplements. Where Drawings and Specifications exceed Code requirements provide such additional requirements.
- .4 Where a material is designated on Drawings or in the Specifications for a certain application, unless otherwise specified, that material shall conform to standards designated in the Ontario Building Code. Similarly, unless otherwise specified, installation methods and standards of workmanship shall also conform to standards invoked by the aforementioned Code. Where no particular material is specified for a certain use, the bidder shall select from the choice offered in the Code in each case.
- .5 Where the aforementioned Code or this Specification does not provide all information necessary for complete installation of an item, then the manufacturer's instructions for first quality workmanship shall be strictly complied with.
- .6 Where words in the Contract Documents occur in the singular number, they shall be taken as plural where applicable in accordance with the quantities required to satisfy the requirements

of the Contract.

- .7 Drawings are, in part, diagrammatic and are intended to convey scope of work and indicate general and approximate location, arrangement and sizes of fixtures and equipment. Obtain more accurate information about locations, arrangement and sizes from study and coordination of Drawings, including shop drawings and become familiar with conditions and spaces affecting these matters before proceeding with work. Where job conditions require reasonable changes in indicated locations and arrangements, make changes at no additional cost to Owner. Similarly, where existing conditions interfere with new installation and require relocation, include such relocation, in the work of this Contract. Install and arrange fixtures and equipment in such a way as to conserve as much headroom and space as possible.

5 Examination

- .1 Examine the work upon which your work depends. Report to Consultant in writing defects in such work. The application of your work or any part of it shall be deemed acceptance of the work upon which your work or that part of it which has been applied depends.

6 Cutting and Patching

- .1 Approvals
 - .1 Submit written request in advance of cutting or alteration which affects:
 - .1 Structural integrity of any element of Project.
 - .2 Efficiency, maintenance, or safety of any operational element.
 - .3 Visual qualities of sight-exposed elements.
 - .4 Work of Owner or separate contractor.
- .2 Inspection
 - .1 Inspect existing conditions, including elements subject to damage or movement during cutting and patching.
 - .2 After uncovering, inspect conditions affecting work.
 - .3 Beginning of cutting or patching means acceptance of existing conditions.
- .3 Execution
 - .1 Perform cutting, fitting, and patching to complete the Work.
 - .2 Remove and replace defective and non-conforming work.
 - .3 Provide openings in non-structural elements of Work for penetrations of electrical work.
 - .4 Perform work to avoid damage to other work.
 - .5 Cut rigid materials using power saw or core drill. Pneumatic or impact tools not allowed.
 - .6 Restore work with new products in accordance with Contract Documents.

7 Protection

- .1 **Contractor to provide security and protection barriers at all times during contract. Barriers are to allow continued use of building during construction work.**

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| | .2 | Provide adequate protection of materials and work from damage and staining. |
| | .3 | Take special measures when moving loads or equipment. |
| | .4 | Protect work of other trades from damage while doing this work. |
| | .6 | Provide temporary heat and enclosures when doing concrete pours. |
| <u>8 Vandalism</u> | .1 | The Contractor shall take all necessary precautions to protect the Owner's property from vandalism during construction. The Contractor shall make good any damage or loss of property directly or indirectly caused by vandalism due to his neglect. |
| <u>9 Repair of Damage</u> | .1 | Damaged work shall be made good by appropriate trades but at the expense of those causing damage. Damage shall be made good in a manner and to the extent acceptable to the Owner. |
| <u>10 Replacement of Defective Items</u> | .1 | Replacement of defective items shall be the responsibility of trade concerned and shall include complete removal and reinstallation of such items and making good, work of all trades involved in such replacement and/or defect, at no cost to the Owner. |
| <u>11 Project Meetings and Schedule</u> | .1 | Administrative |
| | .1 | Provide within 3 working days after Contract award schedule showing anticipated progress stages and final completion of work within time period required by contract documents. |
| | .2 | Schedule and administer project progress meetings throughout progress of work. |
| | .3 | Distribute written notice of each meeting two days in advance of meeting date to Consultant and Owner. |
| | .4 | Provide physical space and make arrangements for meetings. |
| | .5 | Record minutes. Include significant proceedings and decisions. Identify 'action by' parties. |
| | .6 | Reproduce and distribute copies of minutes within 2 days after each meeting and transmit to meeting participants, affected parties not in attendance and Owner. |
| <u>12 Layout of Work</u> | .1 | The Contractor shall, immediately upon entering project site for beginning work, locate all general reference points and take action as is necessary to prevent their destruction; lay out his own work and be responsible for all lines, elevations and measurements, and other work executed by him under this Contract including work by sub-contractors. |
| <u>13 Submittals</u> | .1 | Administrative |
| | .1 | Submit to Consultant submittals listed for review. Submit with reasonable promptness and in an orderly sequence |

- so as not to cause delay in the Work.
- .2 Work affected by submittals shall not proceed until review is complete.
 - .3 Review submittals prior to submission to Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of the Work and Contract Documents.

.2 Shop Drawings and Product Data

- .1 "Shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of the Work.
- .2 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connection, explanatory notes and other information necessary for completion of Work.
- .3 Adjustments made on shop drawings by Consultant are not intended to change Contract Price.
- .4 Make changes in shop drawings as Consultant may require.
- .5 Submit 3 prints of shop drawings for each requirement requested in specification Sections and as Consultant may reasonably request.
- .6 Submit 3 copies of product data sheets or brochures for requirements requested in specification Sections and as Consultant may reasonably request where shop drawings will not be prepared due to standardized manufacture of product.

.3 Record Drawings

- .1 After award of Contract, Consultant will provide a set of transparency drawings for purpose of maintaining record drawings. Accurately and neatly record deviations from Contract Documents caused by site conditions and changes ordered by Consultant.
- .2 Identify drawings as "Record Drawings". Maintain in new condition and make available for inspection on site by Consultant.
- .3 On completion of Work and prior to final inspection, submit record documents to Consultant.

14 Quality Control

.1 Inspection

- .1 Owner and Consultant shall have access to the Work.
- .2 Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals by Consultant instructions, or law of Place of the Work.
- .3 If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make

good such Work.

15 Construction
Facilities and
Temporary Controls

- .1 Installation/Removal
 - .1 Provide construction facilities and temporary controls scaffolding and barricades in order to execute work expeditiously.
 - .2 Remove from site all such work after use.
- .2 Weather Enclosures
 - .1 Provide weather tight closures as required.
 - .2 Provide temporary enclosures as required for temporary heat of concrete flag base.
- .3 Site Storage/Loading
 - .1 Confine the Work and operations of employees to limits discussed at initial site meeting. Do not unreasonably encumber with Products.
- .4 Sanitary Facilities
 - .1 The Contractor shall provide and maintain sanitary facilities.
 - .2 Maintain in clean condition.
- .5 Temporary Power
 - .1 Power for all small tools shall be provided by the Contractor.
- .6 Temporary Telephone
 - .1 Provide and pay for temporary telephones necessary for own use and use of Owner and Consultant.
- .7 Equipment/Tool/Materials Storage
 - .1 Provide and maintain, in clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials.
 - .2 Locate materials not required to be stored in weatherproof sheds on site in manner to cause least interference with work activities.
- .8 Project Cleanliness and Disposal
 - .1 Maintain the Work in tidy condition, free from accumulation of waste products and debris.
 - .2 Remove waste material and debris from site and deposit in waste container at end of each working day.
 - .3 All surplus materials to be removed shall become the property of the Contractor and shall be removed from the premises unless otherwise noted. All costs associated with removal and disposal shall be paid for by the Contractor.

-
- .9 Burning
- .1 Wood and other debris resulting from demolition operations shall **NOT** be burned on the site.
- 16 Material and Equipment
- .1 Product and Material Quality
- .1 Products, materials, equipment and articles (referred to as Products throughout specifications) incorporated in Work shall be new, not damaged or defective, and of best quality (compatible with specifications) for purpose intended. If requested, furnish evidence as to type, source and quality of Products provided.
- .2 Defective Products, will be rejected, regardless of previous inspections. Inspection does not relieve responsibility but is precaution against oversight or error. Remove and replace defective Products at own expense and be responsible for delays and expenses caused by rejection.
- .3 Should any dispute arise as to quality or fitness of Products, decision rests strictly with Consultant based upon requirements of Contract Documents.
- .4 All appurtenances or accessories associated with specified equipment to be by same manufacturer or approved for use by manufacturer or Consultant.
- .2 Storage, Handling and Protection
- .1 Handle and store Products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- .2 Store packaged or bundled Products in original and undamaged condition with manufacturer's seals and labels intact.
- .3 Store products subject to damage from weather in weatherproof enclosures.
- .3 Manufacturer's Instructions
- .1 Unless otherwise indicated in specifications, install or erect Products in accordance with manufacturer's instructions. Do not rely on labels or enclosures provided with Products. Obtain written instructions directly from manufacturers.
- .2 Notify Consultant in writing, of conflicts between specifications and manufacturer's instructions, so that Consultant may establish course of action.
- .3 Improper installation or erection of Products, due to failure in complying with these requirements, authorizes Consultant to require removal and reinstallation at no increase in Contract Price.
- .4 Workmanship
- .1 Workmanship shall be best quality, executed by workers experienced and skilled in respective duties for which they are employed. Immediately notify Consultant if required Work is such as to make it impractical to produce required results.

- .2 Do not employ any unfit person or anyone unskilled in their required duties.
 - .3 Decisions as to quality or fitness of workmanship in cases of dispute rest solely with Consultant, whose decision is final.
- 17 Project Closeout
- .1 Final Cleaning
 - .1 When the Work is Substantially Performed, remove surplus products, tools construction machinery and equipment not required for performance of remaining Work.
 - .2 Remove waste materials and debris from site at regularly scheduled times or dispose of as directed by Consultant. Do not burn waste materials on site, unless approved by Consultant.
 - .3 Leave work broom clean before inspection process commences.
 - .4 Remove stains, spots, marks and dirt from work, electrical fixtures etc.
 - .5 Remove dirt and other disfigurements from surfaces.
 - .2 Inspection/Takeover Procedures
 - .1 Prior to application for certificate of Substantial Performance, carefully inspect the Work and ensure it is complete, that major and minor construction deficiencies are complete, defects are corrected, and work is clean and in condition for intended purpose. Notify Consultant in writing, of satisfactory completion of the Work and request an inspection.
 - .2 During Consultant inspection, a list of deficiencies and defects will be tabulated. Correct same.
 - .3 When Consultant considers deficiencies and defects have been corrected and it appears requirements of Contract have been performed, make application for certificate of Substantial Performance.
- 18 OPSS Standards
- .1 General OPSS standards to be adhered to for this work
 - OPSS 501 - Compacting
 - OPSS 565 - Protection of Trees
 - OPSS 570 - Topsoil
 - OPSS 571 - Sodding
 - OPSS 577 - Temporary Erosion and Sediment Control
 - OPSS 902 - Excavating and Backfilling - Structures
 - OPSS 904 - Concrete Structures
 - OPSS 905 - Steel Reinforcing for Concrete
 - OPSS 919 - Formwork and Falsework
 - OPSS 1010 – Material Specifications for Aggregates

END OF SECTION

FORM OF TENDER

**THIS SET OF THE FORM OF TENDER
IS NOT TO BE REMOVED FROM
THE TENDER DOCUMENTS**

**TENDER FOR Town of Mattawa
New Stage Platform and Pergola
Project No. 17-1077K**

TO: **Corporation of the Town of Mattawa**
Hereinafter called the "Owner"

AND

Jp2g Consultants Inc.
Hereinafter called the "Consultant"

TENDERED BY:

Tender by.....
residing at (or place of business).....
and.....
residing at (or place of business).....
comprising the firm of.....
.....
a company duly incorporated under the laws of
and having its head office at
hereinafter called "the tender".

NOTE:

The Tenderer's name and residence must be inserted above, and in the case of an incorporated firm, the name and residence of each and every member of the firm must be inserted.

Initial_____

FORM OF TENDER

**THIS SET OF THE FORM OF TENDER
IS TO BE COMPLETED AND
SUBMITTED AS THE TENDER**

TENDER FOR **Town of Mattawa
New Stage Platform and Pergola
Project No. 17-1077K**

TO: **Corporation of the Town of Mattawa**
Hereinafter called the "Owner"

AND

Jp2g Consultants Inc.
Hereinafter called the "Consultant"

TENDERED BY:

Tender by.....
residing at (or place of business).....
and.....
residing at (or place of business).....
comprising the firm of.....
.....
a company duly incorporated under the laws of
and having its head office at
hereinafter called "the tender".

NOTE:

The Tenderer's name and residence must be inserted above, and in the case of an incorporated firm, the name and residence of each and every member of the firm must be inserted.

Initial_____

FORM OF TENDER

The tenderer hereby undertakes and agrees with the Owner as follows:

1. Having carefully examined:
 - (a) the locality and site of the proposed work
 - (b) all drawings, specifications and other documents listed as "Tender Documents" hereby offers to enter into a contract to supply all materials, labour and plant necessary for the proper completion of the work set forth in the Tender Documents for amount shown in breakdown below for Contracts 'A', 'B' and 'C'.

_____ Dollars (\$_____)

in lawful money of Canada which is broken down as follows: **GENERAL CONTRACTOR TO SUBMIT PRICE FOR ALL THREE CONTRACTS 'A', 'B' AND 'C' including requested extra/ credit prices noted.**

ITEM NO.	DESCRIPTION	AMOUNT
	CONTRACT PRICE 'A'	
1	Supply all material, labour and equipment for removal and disposal of remaining existing wood beams connected to Museum facia. Construction of a new Stage Platform as detailed on drawings using Strong Wall by M-Con (48"x18" face area per block), including new poured concrete surface, concrete piers for Heavy Timber Structure, fencing, and repairs to existing museum facia and soffit (seven locations) all as detailed on the drawings. (see Tender Form below for alternate pricing on paving stones)	
2	Supply all material, labour and equipment for the repairs to existing retaining wall using salvage wall stones and purchase and installation of new stone to match existing as required. (see Tender Form below for alternate pricing on Strong Wall system)	
3	Supply all material, labour and equipment for restoration of existing walkway pavers including new stones as required to complete walkway as detailed.	
4	Placement existing electrical main and secondary service electrical wiring to include placement in (8) new 2" conduit, bedding and permits. Replacement of existing wood electrical panel enclosure with new Nema 4 enclosure and reconnection/installation of existing panels and wiring. Supply and install two galvanized 6" "C"	

	channel support legs in 14" dia. X 60" deep concrete sono-tubes.	
5	Regrading of site as shown on plans to 1:12 slope and topsoil, sod and watering for two months.	
6	Contingency Allowance	\$10,000.00
7	Testing Allowance (compaction and concrete)	\$5,000.00
TOTAL CONTRACT PRICE 'A' plus H.S.T.		

Initial _____

Contract 'A' , should the Owner choose to select a paving stone finish (Hollandstone, colour Sierra by Unilock), the alternate price for paving stone platform finish noted below (this amount shows credit/extra for substituting pavers instead of concrete). If no price difference, enter "NIL" in spaces below:

Extra amount to delete concrete surface and supply and install paving stones including setting sand _____

Credited amount to delete concrete surface and supply and install paving stones including setting sand _____

Contract 'A' , should the Owner choose to delete replacement of existing stone wall along north side and replace with Strong Wall stones (approx. 40 blocks), the alternate price for Strong Wall stone wall is: If no price difference, enter "NIL" in spaces below:

Extra amount to delete replacement of existing stone wall and supply and install Strong Wall stones _____

Credited amount to delete replacement of existing stone wall and supply and install Strong Wall stones _____

ITEM NO.	DESCRIPTION CONTRACT PRICE 'B'	AMOUNT
1	Co-ordination of the supply, design, construction and installation of new Heavy Timber Pergola Structure as constructed by Mark Surnoskie, Pembroke, 1-613-639-5802 Ontario or approved heavy timber manufacture with good standings in the Heavy Timber Guild.	
2	Supply and installation of commercial grade S-P-F 64mm tk. Max. deflection L/240 No. 1 pine t&g decking and 29 gauge Junior H-F steel roofing panel by Ideal Roofing complete hidden fastener	

	eave starter #815, gable end hidden fastener #414/#800 or #813, hidden fastener ridge detail # 110JR and approved underlayment. Supply and install 50mm x 200mm fascia board.	
3	Staining of new heavy timber structure with minimum three coats of stain as supplied by Olympic, Sika and or Ready Seal or approved equal.	
4	Contingency Allowance	\$10,000.00
Sub-Total		
Harmonized Sales Tax		
TOTAL CONTRACT PRICE 'B' plus H.S.T.		

ITEM NO.	DESCRIPTION	AMOUNT
CONTRACT PRICE 'C'		
1	Supply all material, labour and equipment required for the removal and disposal of existing shingles on the Mattawa Museum and installation of new shingle roof as specified complete with underlayment, flashings, ice guard, starter strips and all associated appurtenances. Removal and re-shingling of existing ridge vent and six dormers. Approx. 5,000 square feet (465 S.M.) area (contractor to confirm), PDF drawings of existing Museum available upon request)	
2	Allowance for replacement of damaged roof decking. Price per square foot (\$ _____ x assume 500 square feet) of 3/4" (19mm) t&g No.1 pine decking, This allowance will be adjusted based on price per square foot quoted and amount of roofing replacement completed. The final contract will be adjusted accordingly based on square footage replaced. Include in this per square foot cost, removal and replacement.	
3	Contingency Allowance	\$10,000.00
TOTAL CONTRACT PRICE 'C' plus H.S.T.		

Initial _____

Contract Tender Price Summary

1. Contract Price 'A' _____

2. Contract Price 'B' _____

3. Contract Price 'C' _____

TOTAL TENDER PRICE 'A'+ 'B'+ 'C' = \$ _____ plus H.S.T.

The Owner reserves to right to delete Contract Price 'B' and or 'C' or both.

The Tenderer recognizes the right of the Owner to reject any or all tenders in whole or in part of the Contract price quoted or to accept the tender or parts thereof judged most satisfactory, this right expressly reserved by the Corporation of the Town of Mattawa without liability on the parts of the Corporation or the prime consultant. The lowest tender will not necessarily be accepted.

Initial _____

- (c) This is a base bid specification. Tenderers are required to include in their tender all equipment, materials, allowances, and taxes as specified.
 - (d) Contingency and testing Allowances noted above shall not be spent without prior approval from Owner or Consultant. Any amount spent in excess of the Allowance will be paid to the Contractor as an extra to Contract Sum. **Include profit and overhead on these allowances in tender amounts, leaving entire amount of allowance to be spent for its stipulated purposes.** Supply proof of purchase for items purchased under allowance.
2. Where the tenderer wishes to indicate that a reduction of the base bid tender price can be obtained by the substitution of alternative equipment or materials, a list of such alternative equipment or materials together with the amount of the price reduction shall accompany the tender.

The Owner shall have the right to accept or reject any or all alternatives proposed. In the case of acceptance by the Owner, of any or all of the proposed alternatives, the base bid tender price shall be reduced by the sum of the accepted alternatives.

Where the substitution of equipment or materials requires the rearrangement of space or the addition or revisions of services, the Contractor shall be responsible for all costs incurred in making the required changes to suit the substituted equipment or material. In addition, the Contractor shall supply all engineering drawings and data requested by the Owner to illustrate the substituted equipment and any changes to space arrangement or services required.

3. The work will begin

The New Stage Platform and Pergola to **be completed by Friday July 10, 2020.**

4. The tender will be valid for a period of 45 days after the date of closing of tenders.
5. I/WE have received and allowed for the Addenda numbered as follows:

Initial _____

6. If this tender is accepted, the Tenderer shall:
- (a) Execute the Canadian Standard Construction Document, CCDC 2, 2008, see Appendix 'A' for copy.
 - (b) Furnish a general analysis of the contract sum, the total aggregating the amount of the tender.
 - (c) Furnish a **certified cheque payable to The Corporation of The Town of Mattawa for 10% of the Tender amount** to be held until total completion of the project.
 - (d) Furnish a signed Certificate of Insurance and WSIB Certificate of Clearance.
7. The Owner reserves the right to disqualify a tenderer if any qualification is attached to this tender form.

SIGNATURE: _____

COMPANY: _____

ADDRESS: _____

TEL. NO.: _____

DATE: _____

Initial_____

STATUTORY DECLARATION RE: TENDER

CANADA
PROVINCE OF ONTARIO
COUNTY OF _____

IN THE MATTER of a Proposed Contract
for the construction of:
New Stage and Pergola
(Corporation of the Town of Mattawa)

..... DO
SOLEMNLY SWEAR THAT the several matters stated in the foregoing Tender are in all respects true, AND
make this solemn declaration, conscientiously believing it is to be true, and knowing that it is of the same force and effect as if made under oath, and by virtue of "The Canada Evidence Act".

DECLARED before me

the
Tenderer

.....

of

in the County of.....

this day of 20...

.....
Commissioner, etc. (or Notary Public)

The Tenderer shall complete and submit this declaration with his tender. Failure of Declaration with his tender may result in the tender being ruled invalid by the Owner.

Initial _____

STATEMENT "A"

**SUMMARY OF TENDERER'S EXPERIENCE
IN SUCCESSFULLY COMPLETED SIMILAR WORK**

Description Year of Contract	For Whom Work Performed	Consulting Engineer or Architect Responsible for the Works
<hr/>		

Initial_____

STATEMENT "B"

**QUALIFICATIONS OF TENDERER'S SENIOR SUPERVISORY STAFF
TO BE EMPLOYED IN THIS CONTRACT.**

NAME	APPOINTMENT	QUALIFICATIONS AND EXPERIENCE
<hr/>		

_____Initial

STATEMENT "C"

LIST OF PROPOSED SUBCONTRACTORS

Tenderers are required to list on this Statement Sheet the name of each proposed subcontractor. For the Tenderer's convenience and to ensure that a complete list is submitted with the tender, a list of possible sub-trades has been printed below. The Tenderer shall make an entry against each possible sub-trade listed either by naming the proposed subcontractor or by entering "by own forces", whichever applies. No blank spaces are to be left.

If, in addition, the Tenderer proposes to sublet a part of the work which is not listed below, he shall add the sub-trade and the proposed subcontractor's name to the list.

FAILURE BY A TENDERER TO COMPLY WITH THE FOREGOING REQUIREMENTS MAY RESULT IN HIS TENDER BEING DISQUALIFIED BY THE OWNER.

<u>SUBTRADE</u>	<u>PROPOSED SUBCONTRACTOR</u>	<u>ADDRESS</u>
Excavation and Backfill	_____	_____
Granular material	_____	_____
Strong Wall System	_____	_____
Paving Stone	_____	_____
Concrete	_____	_____
Concrete placement	_____	_____
Timber Pergola	_____	_____
Pergola roofing	_____	_____
Shingle roofing	_____	_____
Topsoil and sod	_____	_____
Fencing	_____	_____
Electrical	_____	_____

_____Initial

**TENDER FOR
TOWN OF MATTAWA
NEW STAGE PLATFORM AND PERGOLA**

PROJECT NO. 17-1077K

BIDDER'S CHECK LIST

(to be enclosed in the Tender envelope)

BEFORE SEALING THE ENVELOPE, PLEASE CHECK THAT THE FOLLOWING HAS BEEN DONE:

1. (a) Has your tender been **signed**?
(b) Has your **seal been affixed**?
2. Have you enclosed the required **5% Tender Deposit**?
3. Have you enclosed the COMPLETE written "**Form of Tender**" signed and each page initialed?
4. Has the "**Statutory Declaration re: Tender**" been completed?
6. Have signed copies of all **Addenda** received been included?
7. Have you included your signed copy of the "**Bidders Check List**"

NOTES:

- (i) Your Tender will be informal and may be disqualified if ANY of the foregoing points have not been complied with.
- (ii) Make sure that you seal the tender envelope and clearly mark it as to contents.

TENDER ENCLOSED:

**NEW STAGE PLATFORM AND PERGOLA
TOWN OF MATTAWA
PROJECT NO. 17-1077K**

Signature

Date

1. Conform to Section 01001- General Requirements.
2. Include Contingency Allowance and Testing Allowance as shown on the Tender Form for Contracts 'A', 'B' and 'C'.
3. Spend this allowance only on written authority of the Consultant or Owner and in accordance with GC 4.2 of General Conditions of the Contract, Canadian Standard Construction Document, CCDC 2, Engineer, 2008. On completion of entire job, credit to Owner any unused portion of allowances. Any amount spent in excess of the allowances will be paid to Contractor as an extra Contract sum. **Include profit and overhead on these allowances in tender amount, leaving entire amount of allowances to be spent for its stipulated purposes.** Supply proof of purchase for allowance money spent.
4. Contingency Allowance Contracts 'A', 'B' and "C": **\$10,000.00 each**
5. Testing Allowance Contract 'A' **\$5,000.00**

END OF SECTION

<u>1 General</u>	.1	Conform to Section 01001- General Requirements.
<u>2 Water</u>	.1	Water required for completion of the project and compaction etc. to be provided by the Contractor. All necessary temporary piping or hoses etc., from the distribution point to the points on the site where water is necessary to be provided by the Contractor including metering of water usage if requested by Town.
<u>3 Temporary Electric Services</u>	.1	Electric services required in the performance of the Contract shall be furnished and paid for by the Contractor who shall furnish, install and maintain all temporary poles and overhead construction, transformers, metres, drops, and other wiring and fittings for both light and power at locations required in the work, including the cost of making the service connections.
<u>4 Toilet Facilities</u>	.1	The Contractor shall provide, install and maintain for the duration of the work, temporary outside toilet facilities for the use of workmen. The toilet facilities shall be adequate, housed in a weather-tight and elevated floored structure, located advantageously and shall totally contain sanitary wastes within the unit. Facilities shall comply with all applicable building and sanitation ordinances, laws and codes.
<u>5 Barricades</u>	.1	The Contractor shall erect temporary barricades as required to safely conduct the work and protect public pedestrian.
	.2	Contractor to fence off Contract working area shown to delineate this Contract and to meet Ministry of Labour and North Bay- Mattawa Conservation Authority regulation.
<u>6 Temporary Heat</u>	.1	Provide, operate and maintain temporary heating equipment as required to enable work to continue until completion. If required, temporary heat shall be provided for concrete work as directed by the Consultant and/or Owner. Cold weather will not be considered as an excuse for work stoppage. Temporary heaters shall be forced warm air type operated in well ventilated location and vented to exterior or radiant panel type. Do not use salamanders. Maintain temperatures of minimum 10° C in areas when construction is in progress unless indicated otherwise in specifications. New equipment being supplied under this Contract shall not be used for temporary heat.
<u>7 Telephone</u>	.1	At least one telephone shall be made available on site by the General Contractor to all trades. General Contractor shall pay for installation and removal of telephones and all local charges only, no long distance calls.

-
- | | | |
|--|----|--|
| <u>8 Storage Sheds</u> | .1 | Storage sheds shall be provided in approved locations as required for the storage of materials, tools, equipment which may be damaged by weather and which are required by the Contractor's own forces. Sheds required by trades shall be provided by them in approved locations. Sheds shall be weather tight, with floors raised above ground. |
| <u>9 Removal of Temporary Construction</u> | .1 | Temporary office facilities, toilets, barricades, storage sheds, utilities and other construction of temporary nature shall be removed from the site as soon as the progress of the work will permit in the opinion of the Consultant and/or Owner and the portions of the site so occupied shall be properly reconditioned and restored to a condition acceptable to the Owner. |
| <u>8 Regulations</u> | .1 | Contractor to ensure that all regulations are met with respect to pedestrian safety and protection of the environment. Contractor to ensure that all regulations are met in accordance with Ministry of Labour and North Bay- Mattawa Conservation Authority regulations. |

END OF SECTION

Part 1 – General

- | | | |
|--|----|---|
| <u>1 Related Work</u> | .1 | Rough Carpentry |
| | .2 | Wood Framing and Sheathing |
| | .3 | Sheet Metal and Flashing Section 07620 |
| <u>2 References</u> | .1 | ASTMD 225 – Standard Specification for Asphalt Shingles (Organic Felt) Surfaced with Mineral Granules. |
| | .2 | ASTMD 226 – Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing. |
| | .3 | ASTMD 1970 – Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials used as Steep Roofing Underlayment for Ice Dam Protection. |
| | .4 | ASTMD 3161 – Standard Test Method for Wind Resistance of Asphalt End of Section |
| | .5 | ASTMD 4869 – Standard Specification for Asphalt-Saturated Organic Felt Shingle Underlayment Used in Roofing |
| | .6 | ASTM A 606-1, ASTM A 762/A, ASTM D 523-89, ASTM 822-01 Standards for metals. |
| <u>3 Submittals</u> | .1 | Provide submittals of shingles for Owners selection. |
| | .2 | Manufacturer's product data indicating material characteristics, performance criteria, and product limitations. |
| | .3 | Manufacturers Standard Warranty. |
| <u>4 Quality Assurance</u> | .1 | Installer shall be licenced or otherwise authorized to install products specified in this section. Installer shall perform work in accordance with NRCA Roofing and Waterproofing Manual. |
| <u>5 Delivery, Storage, and Handling</u> | .1 | Store products in manufacturer's unopened packaging in a dry location until ready for installation. |
| | .2 | Reject all damaged or opened products. |
| <u>6 Extra Material</u> | .1 | Provide six (6) additional bundles of shingles and one (1) roll of ice guard to Owner for maintenance purposes. Provide letter to consultant stating that material has been delivered. |

7 Warranty .1 Provide Manufacturer's standard 35 year limited warranty on product specified.

Part 2 – Products

1 Acceptable Manufacturers .1 Base:
.1 CertainTeed
.2 Other manufacturers as approved by Consultant.

2 Asphalt Fibreglass Shingles .1 Square, 3-tab type, Class IV impact resistant glass fibre mat base with ceramically coated / UV resistant mineral surface granules across entire face of shingle.
.2 Base Product:
.1 CertainTeed XT30 IR Shingles
.3 Weight: 240lbs per square 100 feet (12.0kg/sq.m)
.4 Colour: To match existing or as selected by Consultant / Owner from manufacturer's standard range.

3 Sheet Materials .1 Eaves Protection:
.1 Sheet barrier of self-adhering rubberized asphalt membrane shingle underlayment.
.1 Base Product:
.1 CertainTeed 'WinterGuard Granular'
.2 Underlayment:
.1 Asphalt impregnated fiberglass-reinforced organic felt designed for use on roof decks as a water-resistant layer beneath roofing shingles.
.1 Base product:
.1 CertainTeed 'Roofers Select'

4 Accessories .1 Nails:
.1 Standard round wire type roofing nails
.1 Hot Dipped Galvanized
.2 Minimum 9.5mm head diameter
.3 Minimum 12ga shank diameter
.4 Shank of sufficient length to penetrate sheathing material 19mm
.2 Asphalt Roofing Cement:
.1 ASTM D 4586 Type I or II
.3 Roof Vents:

- .1 Maxi-Vent Slope Roof Model #301
 - .1 Colour as selected by Consultant from standard range.
 - .2 Provide in sufficient quantity to achieve ventilation capacity indicated on drawings.

Part 3 – Execution

- 1 Examination .1 Verify existing site conditions are suitable for installation. Proceeding with the work constitutes acceptance of conditions.
- 2 Preparation .1 Follow shingle manufacturers recommendations for acceptable roof deck material.
 - .2 Broom clean deck surfaces under eave protection and underlayment prior to application.
- 3 Installation .1 Eaves Protection:
 - .1 Place eave edge and gable metal edge flashing tight with fascia boards. Weather-lap joints 50mm. Secure flange with nails spaced 200mm on centre.
 - .2 Apply waterproofing shingle underlayment as eave protection in accordance with manufacturer's construction.
 - .3 Extend eave protection membrane minimum 1220mm up slope beyond interior face of exterior wall.
- .2 Protective Underlayment:
 - .1 Install one layer of asphalt felt shingle underlayment perpendicular to slope of roof.
 - .2 Lap minimum 100mm over eaves protection.
 - .3 Weather-lap and seal watertight with asphalt roofing cement items protecting through or mounted on roof.
 - .4 Avoid contact with solvent-based cements with eaves guard.
- .3 Valley Protection:
 - .1 Provide eaves protection membrane minimum 910mm wide, centered over valleys. Lap joints minimum 150mm.
- .4 Metal Flashings:
 - .1 Refer to Section 07620
 - .2 Weatherlap joints minimum 100mm
- .5 Asphalt Shingles:
 - .1 Install shingles in accordance with manufacturer's written instructions.

- | | | |
|---------------------------------|----|---|
| <u>.4 Field Quality Control</u> | .1 | Advise consultant and allow for inspection after installation of eaves protection and underlayment. |
| | .2 | Advise consultant and allow for visual inspection by consultant after installation of shingles. |
| | .3 | Correct all defective or unsatisfactory work. |
| <u>.5 Protection</u> | .1 | Do not permit traffic over finished roof surface. |

END OF SECTION

Part 1 – General

- 1 Related Sections .1 General Instructions.
- 2 References .1 American Society for Testing and Materials (ASTM International)
- .1 ASTM A 606-01, Standard Specification for Steel, Sheet and Strip, High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, with Improved Atmospheric Corrosion Resistance.
 - .2 ASTM A 792/A 792M-02, Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
 - .3 ASTM D 523-89(1999), Standard Test Method for Specular Gloss.
 - .4 ASTM D 822-01, Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.
- .2 Canadian Roofing Contractors Association (CRCA)
- .1 Roofing Specifications Manual 1997.
- .3 Canadian General Standards Board (CGSB)
- .1 CAN/CGSB-37.5-M89, Cutback Asphalt Plastic Cement.
 - .2 CAN/CGSB-51.32-M77, Sheathing, Membrane, Breather Type.
- .4 Canadian Standards Association (CSA International)
- .1 CSA A123.3-98, Asphalt Saturated Organic Roofing Felt.
 - .2 CSA PKG.A440-00 - A440-00, Windows / Special Publication A440.1-00, User Selection Guide to CSA PKG.A440-00, Windows.
 - .3 CSA B111-1974 (R1998), Wire Nails, Spikes and Staples.
- 3 Samples .1 Submit shop drawings in accordance with Section 01001 – General Requirements.
- .2 Submit duplicate 50 x 50 mm samples of each type of sheet metal material, colour and finish.

Part 2 – Products

- 1 Pre-finished Steel Sheet .1 Prefinished steel with factory applied silicone modified polyester.

- .1 Class F2S.
- .2 Colour selected by Consultant from manufacturer's standard range.
- .3 Specular gloss: 30 units +/- 5 in accordance with ASTM D 523-89(1999).
- .4 Coating thickness: not less than 25micrometres.
- .5 Resistance to accelerated weathering for chalk rating of 8, colour fade 5 units or less and erosion rate less than 20% to ASTM D 822-01 as follows:
 - .1 Outdoor exposure period 500 hours.
 - .2 Humidity resistance exposure period 500 hours.

2 Accessories

- .1 Isolation coating: alkali resistant bituminous paint.
- .2 Plastic cement: to CAN/CGSB-37.5-M89.
- .3 Underlay for metal flashing: dry sheathing to CAN/CGSB-51.32-M77. 15 perforated asphalt felt to CSA A123.3-98.
- .4 Fasteners: of same material as sheet metal, to CSA B111-1974 (R1998), ring thread flat head roofing nails of length and thickness suitable for metal flashing application.
- .5 Washers: of same material as sheet metal, 1 mm thick with rubber packings.
- .6 Touch-up paint: as recommended by prefinished material manufacturer.

3 Fabrication

- .1 Fabricate metal flashings and other sheet metal work in accordance with applicable CRCA 'FL' series details as indicated.
- .2 Form pieces in 2400 mm maximum lengths. Make allowance for expansion at joints.
- .3 Hem exposed edges on underside 12 mm. Mitre and seal corners with sealant.
- .4 Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.
- .5 Apply isolation coating to metal surfaces to be embedded in concrete or mortar.

4 Metal Flashings

- .1 Form flashings, copings and fascias to profiles to match existing of 0.76 mm thick prefinished steel.

Part 3 – Execution

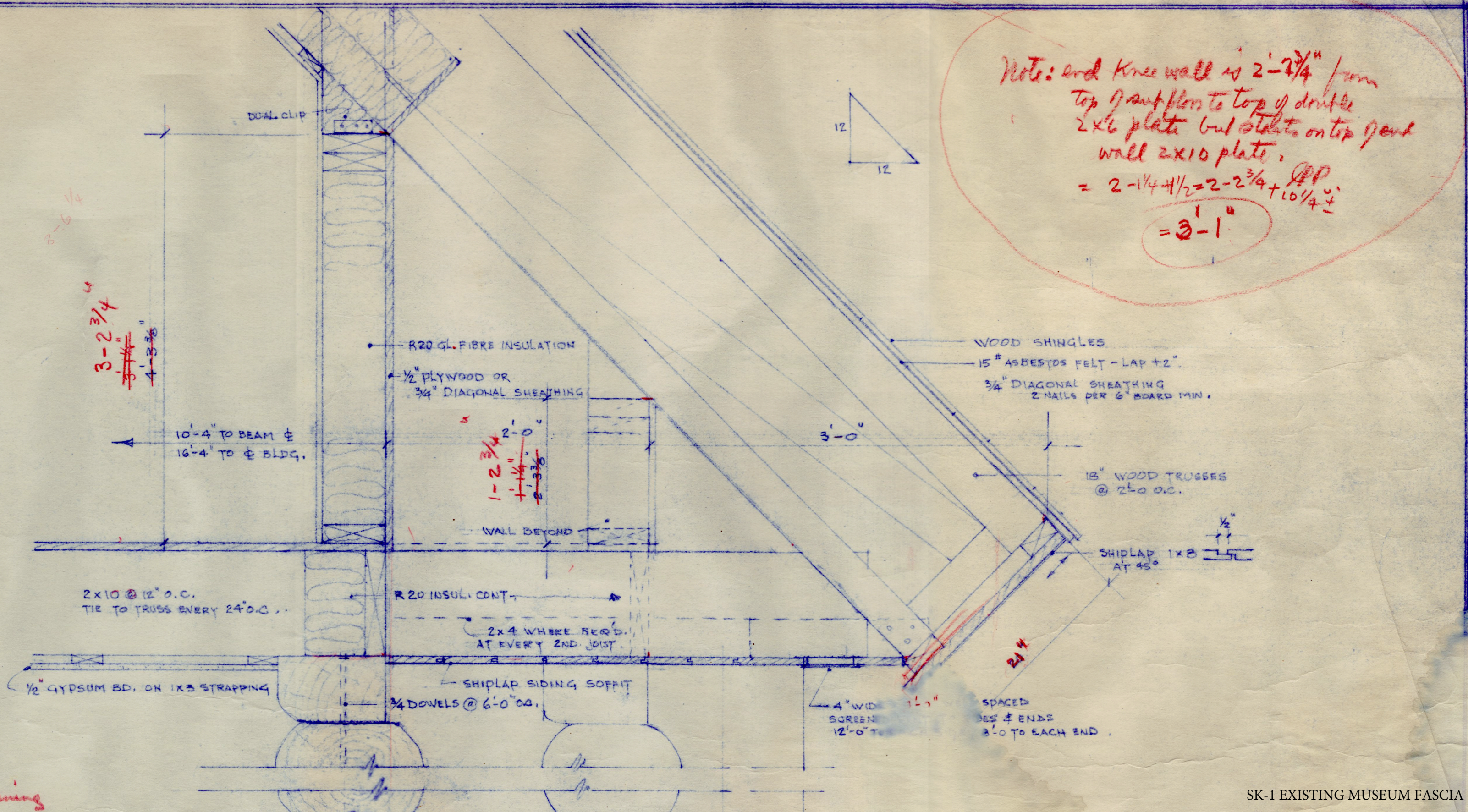
1 Installation

- .1 Install sheet metal work in accordance with CRCA FL series details.
- .2 Use concealed fastenings except where approved before installation.
- .3 Provide underlay under sheet metal. Secure in place and lap joints 100mm.
- .4 Counterflash bituminous flashings at intersections of roof with vertical surfaces and curbs. Flash joints using S-lock forming tight fit over hook strips.
- .5 Lock end joints and caulk with sealant.
- .6 Install surface mounted reglets true and level, and caulk top of reglet with sealant.
- .7 Insert metal flashing under cap flashing to form weather tight junction.
- .8 Caulk flashing at cap flashing with sealant.

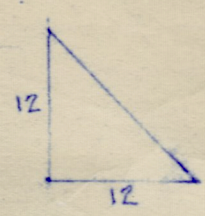
END OF SECTION

APPENDIX A
CCDC2 2008

APPENDIX B
DRAWINGS
SKETCH SK-1 & SK-2, EXISTING MUSEUM FACIA



Note: end knee wall is $2'-2\frac{3}{4}''$ from top of gable to top of double 2x6 plate but starts on top of end wall 2x10 plate.
 $= 2'-1\frac{1}{4}'' + 1\frac{1}{2}'' = 2'-2\frac{3}{4}'' + 1\frac{1}{4}'' = 3'-1''$



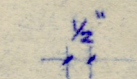
$3'-6\frac{1}{4}''$
 ~~$3'-2\frac{3}{4}''$~~
 $4'-3\frac{3}{8}''$

$2'-0''$
 ~~$1'-2\frac{3}{4}''$~~
 ~~$1'-1\frac{1}{4}''$~~
 $3'-3\frac{3}{8}''$

WOOD SHINGLES
 15# ASBESTOS FELT - LAP + 2"
 3/4" DIAGONAL SHEATHING
 2 NAILS PER 6" BOARD MIN.

18" WOOD TRUSSES
 @ 2'-0" O.C.

SHIPLAP 1x8
 AT 45°



SPACED
 BES & ENDS
 3'-0" TO EACH END

4" WID
 SCREEN
 12'-0" T

2x10 @ 12" O.C.
 TIE TO TRUSS EVERY 24" O.C.

R20 INSUL. CONT.

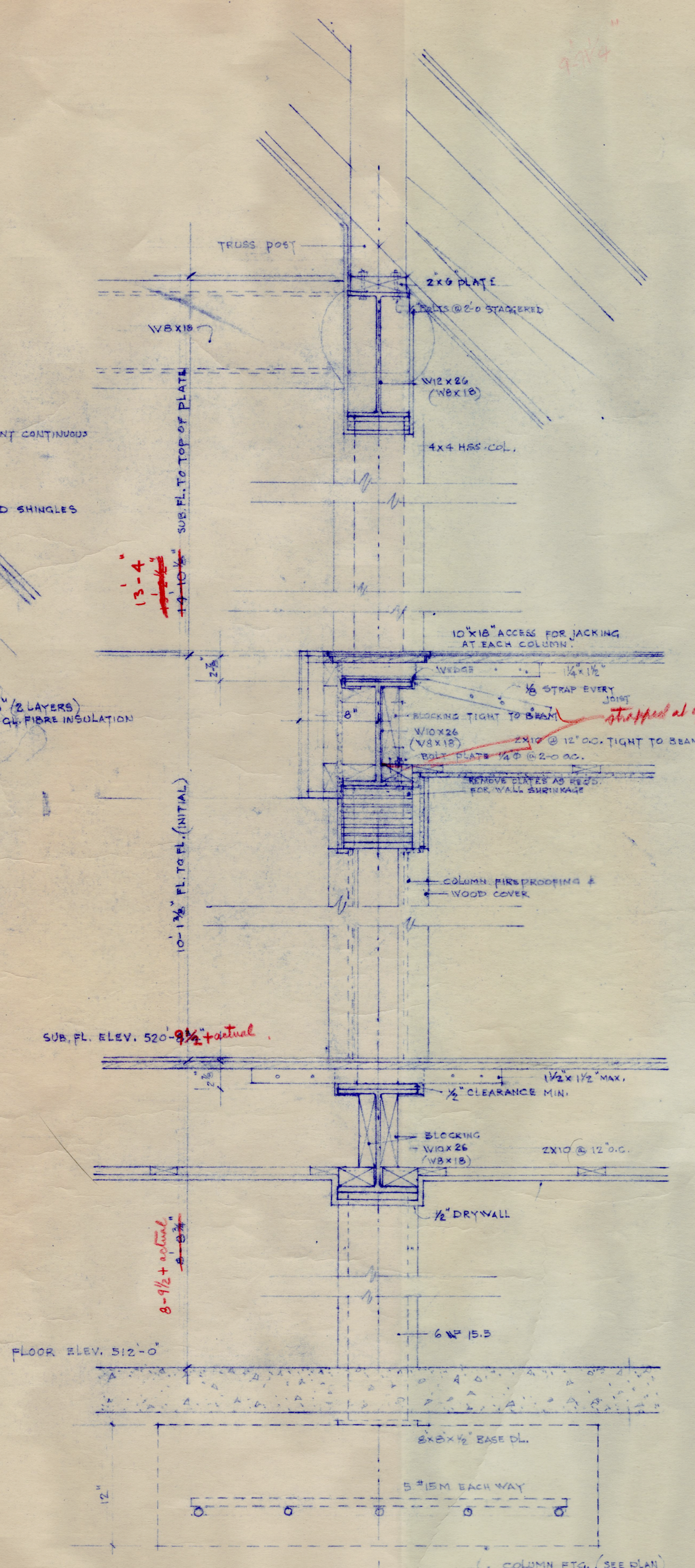
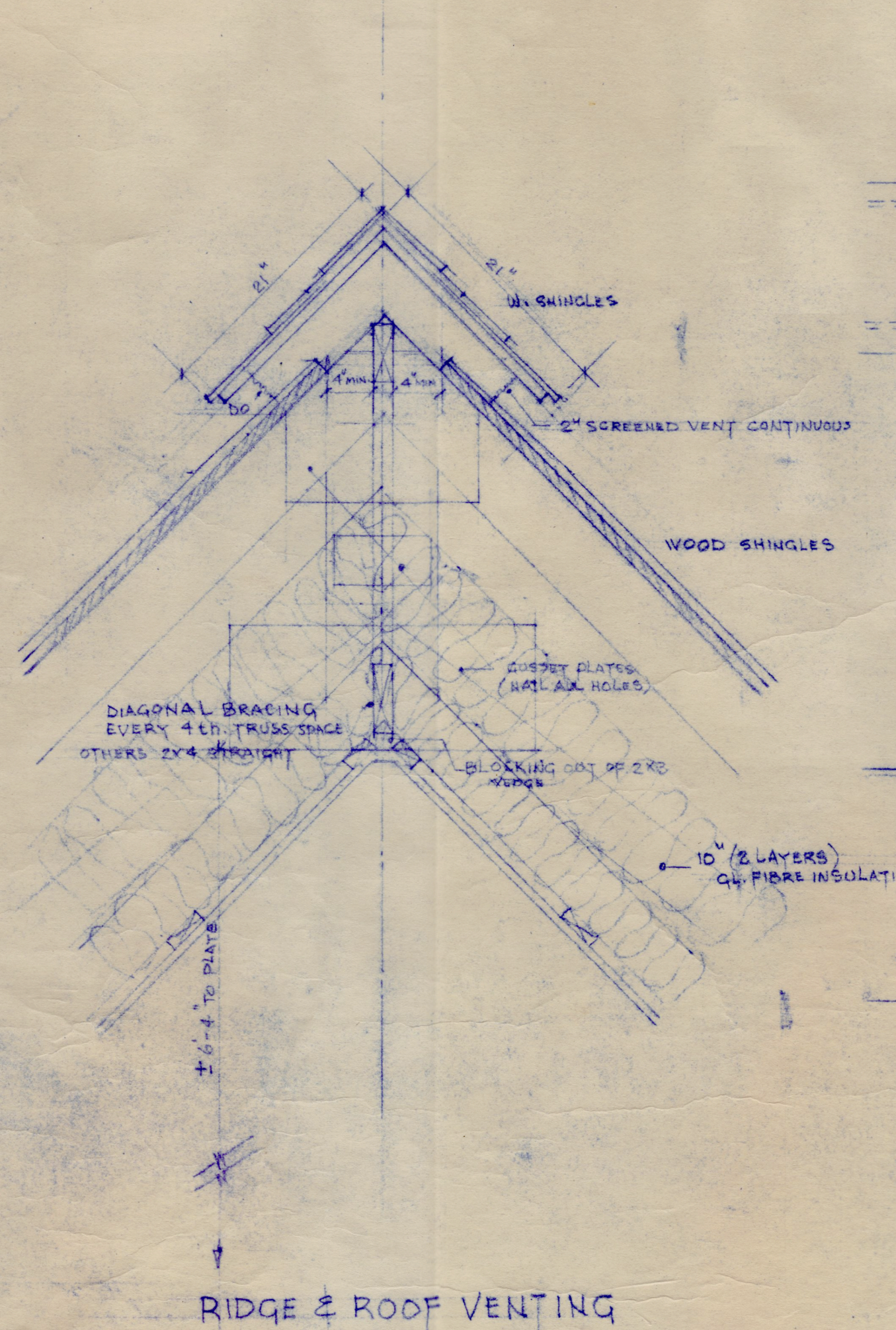
2x4 WHERE REQ'D.
 AT EVERY 2ND JOIST.

1/2" GYPSUM BD. ON 1x3 STRAPPING

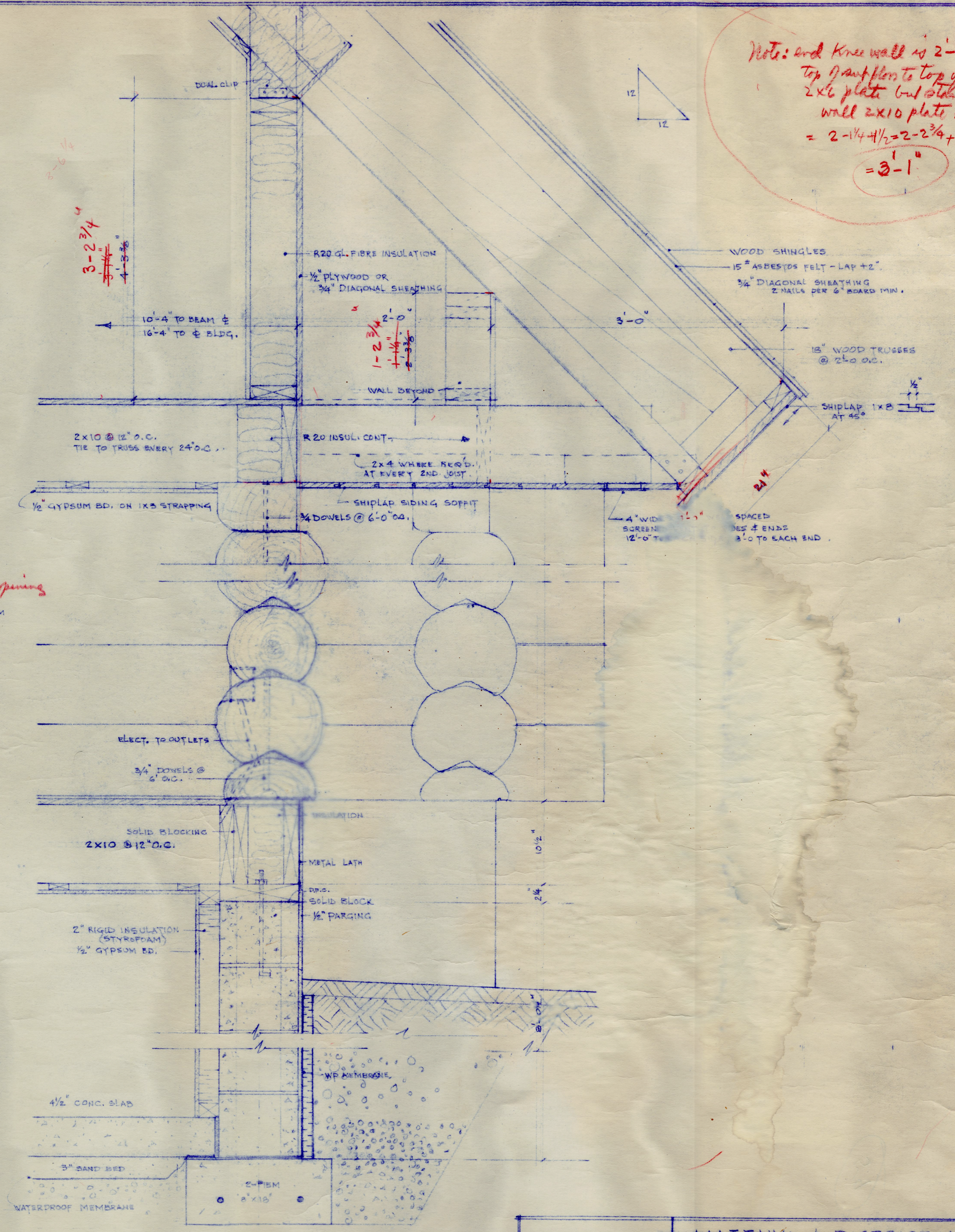
SHIPLAP SIDING SOFFIT

3/4" DOWELS @ 6'-0" O.C.

at opening



SECTION AT INTERIOR COLUMN



WALL SECTION A-A

Note: end knee wall is 2'-2 3/4" from top of main floor to top of double 2x6 plate but plate on top of end wall 2x10 plate.
= 2'-1 1/4" + 1/2" = 2'-2 3/4" + 10 1/4" = 3'-1"

MATTAWA & DISTRICT MUSEUM		
EXPLORERS POINT - MATTAWA, ONTARIO		
JULES P. PAIVIO	ARCHITECT	DATE: JUNE 5/86.
R.R.I. MATTAWA	ONTARIO	
WALL SECTIONS, DETAILS		
SCALE 1/2" = 1'-0"		
		DRWG. A7