



# **The Township of Muskoka Lakes**

## **Invitation to Tender**

**T-2021-12**

### **Moon River Dock Replacement – Bala Ontario**

**Bids will be received at Public Works Reception,  
1 Bailey Street, Port Carling, Ontario until  
2:00pm, Wednesday, March 3, 2021.**

**Tender packages can be obtained on the Township of  
Muskoka Lakes website:  
[www.muskokalakes.ca/en/town-hall/bids-and-tenders](http://www.muskokalakes.ca/en/town-hall/bids-and-tenders)**



Township of Muskoka Lakes  
P.O. Box 129, 1 Bailey St.  
Port Carling, Ontario  
POB 1J0  
Phone: (705) 765-3156

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Moon River Dock Replacement T-2021-12 – Bala, Ontario

INSTRUCTIONS TO BIDDERS

## 1.1 BID DOCUMENTS

- .1 The following documents form the basis of this Bid:

General Requirements  
Scope of Work  
Tender Submission Form  
Greener Earth Engineering Drawings: 2020-25 SP-1, S-1 to S-3  
All issued Addenda

## 1.2 TENDER SUBMISSIONS

- .1 The bidder must submit the tender in a properly sealed envelope. Tenders shall be submitted on the form provided and be received by the designated employee at the Township of Muskoka Lakes hereafter referred to as the "Owner" within the time specified in the Invitation to Tender. It is the responsibility of the bidder to contact the Owner in sufficient time ahead of the tender deadline if technical assistance is required to properly submit the bid.
- .2 The bidder must:
- Put the bidder's name and return address on the envelope
  - Complete and fully execute the Tender submission form supplied in all respects with appropriate documents and all requisite information.

## 1.3 ACCEPTANCE OR REJECTION OF TENDERS

- .1 Under no circumstances will the Owner consider a Tender which is:
- not received at the address given in the Invitation to Tender, within the time prescribed therein.
  - not properly signed by a duly authorized person of the company submitting the tender.
- .2 The Owner has the unqualified right to:
- accept or reject any Tender or all Tenders; and
  - waive the formalities in any Tender documents as the interest of the Owner may require; without giving any reasons for such action.
- .3 The Owner is not obliged to accept any Tender because it is the lowest tender submitted.

## 1.4 EXAMINATION OF SITE

- .1 Each bidder must visit and examine the site and obtain a clear and comprehensive knowledge of the conditions and limitations thereof. Bids will not be accepted by contractors who have not reviewed the site.

## 1.5 TAXES AND DUTIES

- .1 Bidder must make provision in the Tender to cover the full cost of all Federal and Provincial taxes, and provide their GST Registration Number.
- .2 In the event of any change in any applicable tax made public after the date of tender closing, the Contract Price shall be adjusted by an amount equal to the increase or decrease in the cost of Work to the Contractor brought about by the change in such tax.



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INSTRUCTIONS TO BIDDERS

## 1.6 CONTRACT

- .1 The contract shall be deemed to be awarded on the date that the Owner so advises the Bidder in writing. If a contract is awarded, the following will form part of the Contract: Instructions to Bidders, General Conditions, Tender Submission Form, Scope of Work, Drawings, Addenda, and Purchase Order.

## 1.7 ADDENDA

- .1 Addenda may be issued during the Bid Period to known Bidders. All Addenda shall become an integral part of the Bid Documents. Insert in the space provided on the Bid Form the Addenda numbers of all Addenda received during the tendering period. If no Addenda have been received, insert the word "NONE" in the space provided.

## 1.8 DISCREPANCIES

- .1 Report to Owner all discrepancies, omissions, errors, departures from applicable codes/laws and points considered to be of dubious intent, so that the Owner may issue instructions or Addenda at least four (4) working days before the bid closing date. Neither the Owner or the Owner's agent(s) will be responsible for oral instructions.

## 1.9 MATERIAL VARIATIONS

- .1 Materials or methods alternatives (other than those specifically requested in the bid documents) may be proposed by the Bidder under the following conditions:
  - .1 Base the Tender Submission Price on the Methods and Materials specified.
  - .2 Attach a list of proposed alternatives on the Tender Submission form.
  - .3 For these alternatives provide a description and state what difference, if any, will be made in the amount of the stipulated sum for each alternative, should it be accepted. Include substitutions in the Contract only upon written authority of the Consultant.
  - .4 The Owner shall have the right to accept any or all such substitutes, in which event the Contract amount shall be changed accordingly.

## 1.10 QUALIFICATIONS

- .1 Bidders and their respective subcontractors shall have engaged in work of a similar nature or shall be fully capable of performing the work to be done as specified and in accordance with the terms of the Contract, and must be prepared to submit proof of same on request of the Owner.
- .2 The Owner reserves the right to investigate fully the qualifications (including financial status) of any Bidder.



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INSTRUCTIONS TO BIDDERS

#### 1.11 ENQUIRIES

- .1 Direct ALL enquiries during the bid period to the owner as indicated below:

Mr. Jake Vincent  
Facilities Maintenance Foreman  
Township of Muskoka Lakes  
P.O. Box 129, 1 Bailey St.  
Port Carling, Ontario P0B 1J0  
Phone: (705) 765-3156  
[jvincent@muskokalakes.ca](mailto:jvincent@muskokalakes.ca)

- .2 In an effort to ensure all questions are coordinated through Known Bidders, questions will only be accepted/answered only from Known Bidders. Inquiries are to be submitted by email only for the purpose of maintaining a written record of all questions.

END OF SECTION



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Moon River Dock Replacement T-2021-12 – Bala, Ontario      GENERAL REQUIREMENTS

**1      GENERAL**

1.1      SUMMARY OF WORK

.1      Section Includes

- .1      TITLE AND DESCRIPTION OF WORK: Moon River Dock Replacement T-2021-12, Bala, Ontario.
- .2      CONTRACT METHOD: STIPULATED SUM.
- .3      Owner's occupancy: As outlined in Section 01001.

1.2      INSURANCE

- .1      The Contractor shall keep in force for the duration of the Contract, Public Liability and Property Damage Insurance in an amount not less than \$2,000,000.00. Without limiting the foregoing, such insurance coverage shall include Comprehensive General Liability, Contractual Liability, Personal Injury and Contingent Liability with respect to Sub-Contractors. The Contractor shall provide proof of such insurance in the form of certificate within three (3) days upon receipt of notification of award of this Contract.

1.3      WORKPLACE SAFETY AND INSURANCE BOARD CERTIFICATE OF CLEARANCE

- .1      The Contractor shall produce a Workplace Safety and Insurance Board (WSIB) Certificate of Clearance Form at commencement of this Project and at any time during the performance of this Contract as directed by the Owner.

1.4      ASSIGNMENT

- .1      The contractor shall not assign the contract nor the proceeds without the written consent of the Owner.

1.5      TAKING WORK OUT OF CONTRACTOR'S HANDS

- .1      Where the Contractor becomes bankrupt or insolvent, delays commencing or diligently executing the Work, abandons the Work or has otherwise failed to perform any of the provisions of the Contract, the Owner may, without previous notice and without process or suit at law, take the work out of the hands of the Contractor and have it completed by whatever means are considered necessary. In addition to any other remedy available in law or equity, the Owner may use all moneys due on the Contract to correct or complete the work.

1.6      INDEMNITY

- .1      The Contractor shall indemnify and save harmless the Owner and its officers or agents from all claims, demands, losses, costs, damages, actions, suits, or proceedings by whomsoever made, occasioned by or attributable to the activities or omissions of the Contractor or those for whom the Contractor is responsible in performing the Contract.



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## 1.7 PROJECT MEETINGS

- .1 The Owner (or the Consultant) may call an initial Project Meeting. The General or Principal Contractor must invite his own or his subcontractor's key staff to participate in an initial briefing meeting.
- .2 The agenda of the briefing meeting will include:
  - .1 Introduction of key personnel participating in the Project
  - .2 Establishing limits on work hours, access, movements on site, etc.
  - .3 Reviewing the approved Work Schedule.
  - .4 Establishing administrative and procedural matters
  - .5 Providing procedural forms and communications routing.
  - .6 Establishing the schedule for subsequent project meetings.

## 2 REGULATIONS AND STANDARDS

### 2.1 HEALTH AND SAFETY

- .1 During the progress of this Contract, Contractors must abide by all applicable Health and Safety Regulations with respect to the Occupational Health and Safety Act, Construction Safety Act and related regulations as applicable to their particular trade. This includes but is not limited to the following specific requirements:
  - .1 Limiting access to unauthorized personnel to any area of the work site that may be hazardous
  - .2 The proper use of all safety equipment as required by the regulations.
  - .3 Training of all Contractor's personnel on site in the requirements of the regulations.
  - .4 Proper use of ladders, lifting devices, guarding, and lock-out procedures.

### 2.2 FIRE SAFETY

- .1 Contractors are required to comply with all requirements of the Ontario Fire Code with respect to the following (as applicable):
  - .1 Shutting off and capping abandoned service lines.
  - .2 Maintaining and protecting continuing and new service lines.
  - .3 Providing fire watches as required.
  - .4 Management of combustible salvage, waste, and rubbish.
  - .5 Protecting persons and properties.
  - .6 Maintaining operable fire protection equipment.
  - .7 Maintaining fire fighter's access.
  - .8 Providing temporary fire extinguishing equipment.
  - .9 Maintaining existing and temporary fire exits.

### 2.3 PERMITS AND INSPECTIONS

- .1 The Contractor is responsible for submitting drawings and information to all local & provincial authorities having jurisdiction over the nature of work included in this Contract for examination and approval prior to beginning work. Contractor is to include in the Tender Submission and pay all fees and associated costs for demolition and building permits as determined by the local township formula.



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- .2 Contractor will include in Tender Submission all fees and associated costs for trade specific permits and inspections (eg. gas connections) and will pay associated fees when due.
- .3 Contractor is to comply with all requests for changes as made by local authorities and notify Owner and Consultant of such changes.
- .4 The Contractor is responsible for scheduling and coordinating all required inspections and must retain copies of approvals for submission to owner at the completion of the Project.

2.4 STANDARDS

- .1 Contractor is responsible for complying with all referenced standards that are in effect at the time of the performance of this Contract. Failure to comply may result in rejection of the work and the need to replace or repair at no additional cost.

2.5 WORKMANSHIP

- .1 Employ only skilled and certified trades people, experienced in their specific areas of work.
- .2 If rejection of any part of the work is due to poor workmanship, contractor shall repair or replace the work by employing alternative skilled trades people at contractor's expense.

2.6 MATERIALS

- .1 All materials, products and equipment supplied for the work shall be new, of the best quality and as far as possible, unless otherwise specified, of Canadian origin and manufacture.
- .2 The Contractor shall furnish for the approval of the Owner, samples of materials, tests, and designs as required from time to time. The work must be in accordance with the approved samples, tests and designs.

**3 PROCEDURES**

3.1 COMMENCEMENT AND COMPLETION

- .1 The work shall be commenced immediately after instructions are given to proceed by the Owner and shall be completed within the time specified on the Tender Submission Form.

3.2 SCHEDULE

- .1 The work shall be carried out Monday to Friday from 8:00 AM to 5:00 PM. No work is to be done on Saturdays, Sundays or statutory holidays or at other times as designated by Owner.
- .2 Reserved.



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3.3      EXISTING SERVICES

- .1      Notify Owner and utility companies of intended interruption of services and obtain required permission.
- .2      Where Work involves breaking into or connecting to existing services, give Owner 48 hours of notice for necessary interruption of mechanical or electrical service throughout course of work. Keep duration of interruptions to a minimum.

3.4      PROTECTION

- .1      The Contractor shall provide adequate protection to the public and property, the work and other areas affected from any damages, theft or vandalism until the work is accepted.

3.5      CLEAN-UP

- .1      At the end of each day's work, the Contractor shall remove all debris, hazardous impediments, equipment and material which is not to be reused from the site.

3.6      CUTTING AND PATCHING

- .1      The contractor shall not undertake any cutting, patching or the like, other than indicated in the Contract, without prior written approval of the owner.

3.7      LOSS OR DAMAGE TO MATERIAL OR EQUIPMENT

- .1      The Contractor shall be solely responsible for loss or damage to the Contractor's materials or equipment and for any materials delivered to the Contractor from whatever source to the site.

3.8      TEMPORARY SERVICES

- .1      Reserved.
- .2      The Contractor is responsible for providing all temporary services as required for the completion of this project. Contractor is to coordinate the location of any temporary service that may impact on the accessibility or esthetics of the site. Temporary facilities that may need to be provided include but are not limited to:
  - .1      Electrical Power
  - .2      Toilet facilities
  - .3      Shoring and Underpinning
  - .4      Guardrails and Barriers
  - .5      Warning signs, visual and audible signals





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3.9 CO-ORDINATION

- .1 Examine requirements of materials, labour, and equipment standards for the work of this Contract.
- .2 Ensure that where the work of one trade is to be built-in or is to be incorporated into or is dependent on the work of another trade, provide material, labour and equipment so as to avoid work delays.
- .3 Ensure that installations, individually and collectively fully comply with contract requirements.

**4 SUBMITTALS AND TRAINING**

4.1 SHOP DRAWINGS AND SAMPLES

- .1 Throughout the scope of work, requirements are listed for the submission of shop drawings and samples. The Principal Contractor is responsible for the submission of such items to the Consultant within seven (7) days after the awarding of the Contract. The Contractor shall provide three (3) copies of each required submittal and will keep records of all submissions and approvals to avoid unnecessary work delays.

4.2 AS-BUILT DRAWINGS AND MAINTENANCE MANUALS

- .1 Throughout the progress of the work maintain accurate records of all installations especially underground utilities. Provide to the owner as-built drawings of all locations showing as much information as required to allow for future installations or renovations without interfering with equipment and services installed by this Contract.
- .2 Combine manufacturer provided maintenance and installation manuals for all installed equipment and accessories in a 3-ring binder for each location. Clearly label binder as to location and indicate the equipment that was installed for future reference and maintenance needs.
- .3 Contractor shall take photographs of all work prior to covering. Pictures to be catalogued and submitted to the owner at the completion of the project.

4.3 WARRANTIES

- .1 Expedite the preparation and submission of warranties, as specified. Provide certificates as inclusions in the Operating and Maintenance Manual.

4.4 TRAINING

- .1 Prior to acceptance, provide training to all individuals designated by the Owner as to operation, cleaning, and maintenance of all installed equipment. Provide written verification of adequate training to Owner upon request.



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GENERAL REQUIREMENTS

## **5 FINAL ACCEPTANCE**

### **5.1 FINAL ACCEPTANCE**

- .1 Upon completion of Scope of Work, the Contractor shall provide 24 hrs. notice to the Owner so that the Owner and Consultant may inspect the quality and functionality of the installation.
- .2 The Owner has the options of:
  - .1 accepting the work as is
  - .2 conditional acceptance of the work providing the deficiencies noted in writing are corrected to the Owner's satisfaction in the time allotted
  - .3 rejection of the work – with deficiencies noted in writing to be corrected to the Owner's satisfaction forthwith.
- .3 Contactor will bear the cost to correct all deficiencies to the satisfaction of the Owner.

**END OF SECTION**



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SCOPE OF WORK

## 1.0 GENERAL

### 1.1 REFERENCES

- .1 CSA G40.21-04 General Requirements for Rolled or Welded Structural Quality Steel
- .2 CSA S16-14 Design of Steel Structures
- .3 CSA A23.1-09 Concrete Materials and Methods of Concrete Construction
- .4 Ontario Electrical Safety Code (25th Edition), 2012
- .5 Ontario Building Code (2012)
- .6 CSA 086-09 Engineering Design in Wood

### 1.2 SUBMITTALS

- .1 Submit shop drawings and product data in accordance with GENERAL REQUIREMENTS – Section 4.1 and detailed requirements as outlined within this section.
- .2 For shop drawings and product data, indicate dimensions, construction details, materials and strength specifications for the following (as applicable):
  - .1 D-F-L Timber Beams
  - .2 Pressure Treated Stringers, Decking & Fascia
  - .3 Fabricated Steel Splice & Anchor Brackets
  - .4 Solar powered light fixtures & posts
  - .5 Dock corner edging
  - .6 Dock cleats
  - .7 Fasteners
  - .8 Sign-Post Brackets

### 1.3 WORK INCLUDED

#### .1 BACKGROUND

The project involves the removal and replacement of the existing municipal dock which was severely damaged due to flooding in the spring of 2019. As a result of the damage, access to the dock is currently prohibited. Since the structure is the only public access dock servicing residents of the Moon River below the dam, it is an essential part of the infrastructure that services the Town of Bala and as a result, timely replacement is desirable.



As the dock is aging and showing signs of structural deterioration both above and below the water surface, it has been determined by the Township that replacement rather than repair is the more viable, long term option. Re-construction will allow for a structure more resistant to the effects of flooding which is expected to be an annual occurrence each spring. In addition, replacement of the dock will allow for a new structure with an extended lifespan and reduced maintenance costs.

## .2 SCOPE OF WORK

### .1 Demolition

.1 Existing dock size and layout are as shown on Greener Earth Engineering Drawing 2020-25 SP-1. Contractor will be responsible for the removal and disposal of all portions of the existing dock as detailed on the drawing. Methods and equipment to be used for removal of dock components are at the discretion of the contractor, however it shall be noted that the current walkway is not structurally sound and will not support any significant loads especially motorized equipment.

.2 All material to be removed from the existing dock will be placed in appropriate waste disposal bins and disposed of in the local landfill (Rosewarne Dr., Bracebridge). Contractor is responsible for the cost of all bin rentals, transportation and tipping fees. A designated location will be provided for the placement of bin(s) at the construction site. Access to the adjoining properties and Portage Street shall not be obstructed at any time.

.3 Removal of existing redundant water gauge equipment as owned by Ontario Power Generation shall be as detailed and noted on Greener Earth Engineering Drawing 2020-25 SP-1. All equipment to be removed shall be disposed of or salvaged as directed. Care shall be taken to prevent damage to wiring and equipment that are to remain.

### .2 Dock Construction – General

.1 Upon completion of demolition, contractor will provide all labour, equipment and materials to construct the new dock as detailed on Greener Earth Engineering Drawing Nos. 2020-25 S1, S-2 & S-3.

### .3 Dock Construction – Existing Concrete Piers

.1 The existing concrete piers are to act as the primary supports for the main dock section. Upon removal of the existing dock structure and prior to commencing any new construction, the condition of all piers shall be assessed for their ability to adequately support and anchor the re-built dock structure. This assessment is to include a thorough visual inspection of all surfaces above the water level looking for excessive spalling, cracking or general weakness in any areas of the concrete surface. Test holes and anchors are to be installed in the surfaces of the piers in the approximate areas where anchorage is required with a representative sample subjected to pull-out testing as directed by the engineer.



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SCOPE OF WORK

.2 If the visual inspection as noted in item .1 indicates that there may be deterioration of the concrete, additional review of the piers below the water level may be required as determined by the engineer. Contractors shall carry an allowance of \$5000.00 for an underwater investigation which will involve a full photographic documentation of the condition of all piers including the bearing on the river bottom.

#### .4 Dock Construction – Timber Beams & Cribbing

.1 All main dock construction shall be to the requirements of the Ontario Building Code and CAN/CSA 086-14 Engineering Design in Wood with steel bracket fabrication to the requirements of CAN/CSA S-16-14 Design of Steel Structures. The primary dock structure including cribs, timber beams and stringers are to be erected using all materials, methods, and details as specified in the tender documents. Contractor will be responsible to provide material specifications as part of the shop drawing submittal for all timber, dimensional PT lumber and structural steel to be supplied including species, grade and method of treatment. In addition, shop drawings outlining manufacturer, material & grade of all fasteners shall be provided. If any substitution to design or material is proposed, contractor shall, at their expense provide specifications and details outlining the change.

.2 All proposed changes shall be outlined in the tender form with associated cost savings/additions that will be realized if the proposed design change is accepted. If the contractor is the successful bidder, any design change proposals that relate to a revision in design of the dock structure itself (materials, methods, or details) will require at the contractor's expense, detailed shop drawings prepared by and sealed by a professional engineer registered to practice in Ontario. Shop drawings will be subject to review and acceptance by the owner and consultant prior to start of any construction.

#### .5 Dock Construction – Wood Decking

.1 Upon completion and acceptance of main dock structural member installation, contractor will provide all labour, equipment and materials to install pressure treated decking and fascia as detailed on Greener Earth Engineering Drawing Nos. 2020-25 S1, S-2 & S-3.

.2 All finish wood construction shall be to the requirements of CAN/CSA 086 Engineering Design in Wood. Contractor shall supply as part of the shop drawing submittals specifications of decking material to be used including species, grade and method of treatment. In addition, shop drawings outlining manufacturer, material & grade of all fasteners shall be provided.

#### .6 Dock Construction – Appurtenances

.1 Upon completion and acceptance of wood decking and fascia installation, contractor will provide all labour, equipment and materials to install dock corner edging, cleats, signage, security lighting, and existing water gauge/electrical junction



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SCOPE OF WORK

box support as detailed on Greener Earth Engineering Drawing Nos. 2020-25 SP-1, S-1, S-2 & S-3.

.2 Contractor shall supply as part of the shop drawing submittals for this section, the manufacturer and specifications for dock edging corners, cleats, fasteners, and solar powered security lighting. In addition, contractor shall provide shop drawings for replacement sign-post bases as specified for relocation of existing identification sign.

#### .7 Dock Construction – Site Work

.1 Upon completion and acceptance of wood decking and fascia installation, contractor will provide all labour, equipment and materials to repair transition area between new dock walkway and existing asphalt paved access roadway. Work to be as detailed on Greener Earth Engineering Drawing No. 2020-25 S-1.

## 2.0 EXECUTION

### .1 CONSTRUCTION

- .1 Contractor to participate in mandatory site visit to verify scale and scope of work and to familiarize themselves with the limitations of the site with respect to operation and storage of equipment and material. Consultant is to be notified of all discrepancies and possible issues prior to commencing work.
- .2 Contractor shall notify all neighbouring property owners regarding the nature and hours of work and will ensure good relations by maintaining safe access to said properties during and after working hours.
- .3 All work to be performed by certified tradesman for all required components of the installation (carpentry, timber framing, steel fabrication, sitework & electrical).
- .4 Anticipated construction start date is dependent on award of tender and site conditions. It is expected that construction of this project can proceed as soon as a contract is awarded, however project schedule will be largely dependent on material and labour supply and current state of approved construction activities due to the pandemic at the time of awarding. The successful contractor shall make every reasonable effort to provide a firm schedule for completion based on these factors. If construction is to commence but not be completed prior to the spring flood season, the successful contractor will be responsible to make allowances to ensure all portions of the dock that are completed and all materials stored on site are suitably anchored and secured to resist potential flood waters that may exceed 2 metres above typical winter water levels. Upon return to normal water levels, contractor will be responsible for the completion of all unfinished portions of the dock and any repairs that may be required due to incomplete work.

**END OF SECTION**



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MOON RIVER DOCK REPLACEMENT T-2021-12 – BALA, ONTARIO

TO: Mr. Jake Vincent  
Facilities Maintenance Foreman  
Township of Muskoka Lakes  
P.O. Box 129, 1 Bailey St.  
Port Carling, Ontario  
P0B 1J0

Dear Sir/Madam:

I/We hereby submit our Bid for the Contract for: MOON RIVER DOCK REPLACEMENT T-2021-12 – BALA, ONTARIO. Having visited the site and carefully examined the Scope of Work, and all other Contract Documents for the project, including addenda numbered as follows and received on the following dates:

Addendum No.:                      Date Received:

I/We agree, for the stipulated sum stated below to supply all necessary labour, materials, plant, equipment, appliances, and services for the execution and completion of the Work in accordance with the Contract Documents. The Bid Prices in Canadian Dollars including all commissions, overhead, fees, Federal and Provincial taxes, except for the HST, are:

PROJECT COST:                      SUPPLY OF ALL EQUIPMENT, MATERIAL & LABOUR TO REMOVE  
EXISTING DOCK AND IDENTIFIED COMPONENTS AND CONSTRUCT NEW  
TIMBER DOCK, DECKING, APPURTENCES, AND SITE WORK.  
(AS DESCRIBED IN THE TENDER DOCUMENTS)

---

\_\_\_\_\_ Dollars (\$).

These bids are irrevocable from the time of submission to sixty (60) days after the Bid closing date.

I am/ We are in a position to commence the work immediately and carry it through to satisfactory conclusion.



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MOON RIVER DOCK REPLACEMENT T-2021-12 – BALA, ONTARIO

1. COST OF CHANGES

.1 With reference to Changes in the Work, I/We agree to apply the following percentage mark-ups to the cost of work added.

|   | Overhead | Profit |
|---|----------|--------|
| .1 Mark-up on own work                              | _____    | _____  |
| .2 Mark-up on work of subcontractors/<br>suppliers. | _____    | _____  |

2. ALTERNATIVE PRICES

.1 The deduction from/addition to the Bid price quoted for the work specified for the following proposed alternative equipment/materials (add additional sheet if necessary):

| PROPOSED ALTERNATIVE | BID PRICE DEDUCTION/ADDITION |
|----------------------|------------------------------|
| _____                | _____ Dollars (\$)           |
| _____                | _____ Dollars (\$)           |
| _____                | _____ Dollars (\$)           |

3. COMPLETION DATES

.1 I/We submit the dates I/We consider I/We will meet for the performance of the contract.

- .1 Commence the Work: On or before April 1, 2021
- .2 Substantial Performance of the Work: On or before May19, 2021
- .3 Completion of the Work: On or before June 18, 2021





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MOON RIVER DOCK REPLACEMENT T-2021-12 – BALA, ONTARIO

4. SIGNATURE OF BIDDER

Name of Company

Name and Title of Signing Officer

---

---

Street Address

Signature of Signing Officer

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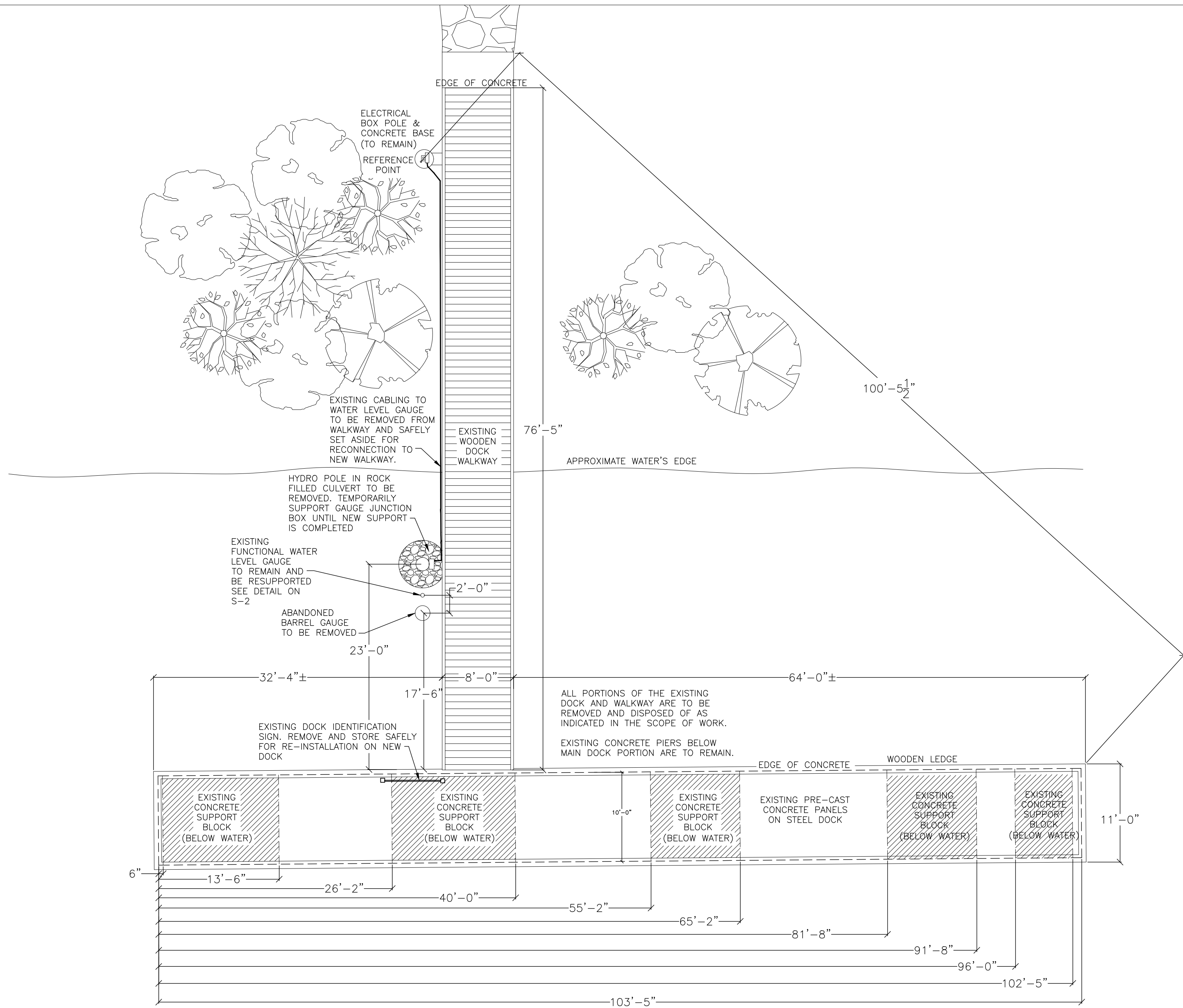
City or Town

Corporate Seal

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Date:

**END OF TENDER SUBMISSION FORM**



PROJECT NAME MOON RIVER DOCK REPLACEMENT - 2021  
 PORTAGE STREET  
 BALA, ONTARIO

DRAWING TITLE EXISTING DOCK SITE PLAN

PROJECT NO. 2020-25

DRAWING NO.

**SP-1**

SCALE AS SHOWN

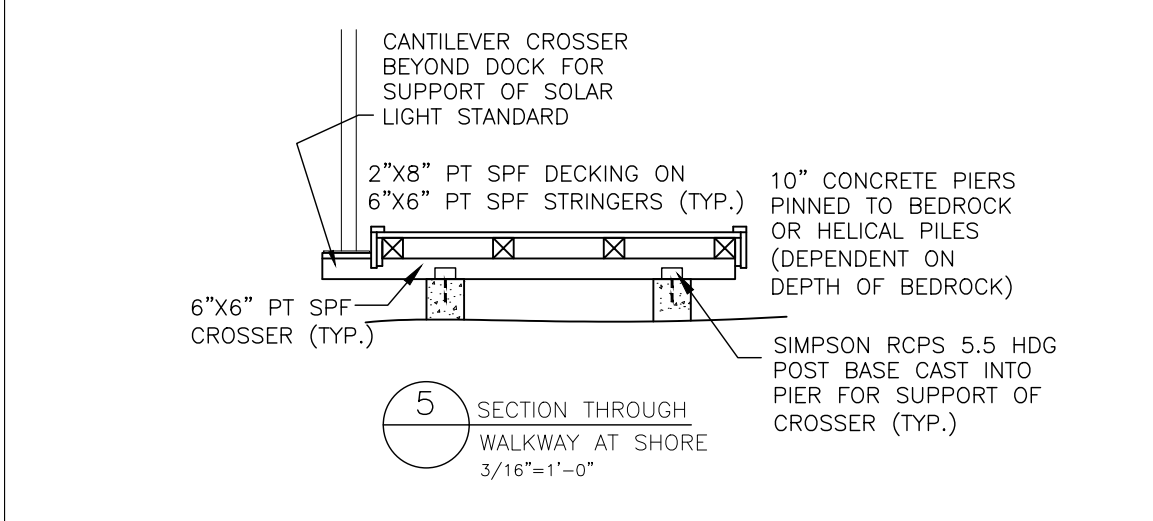
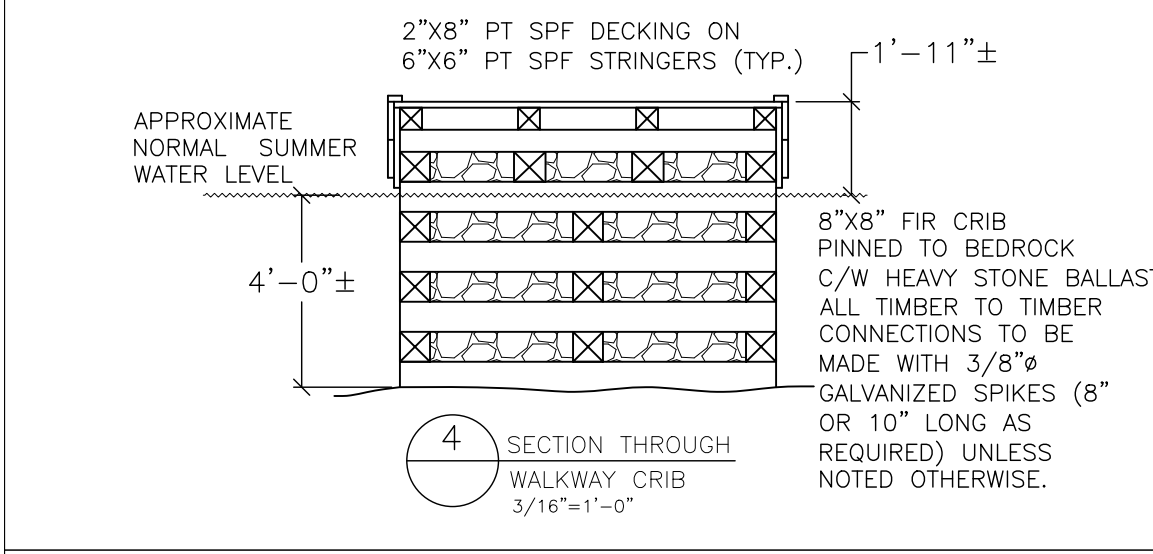
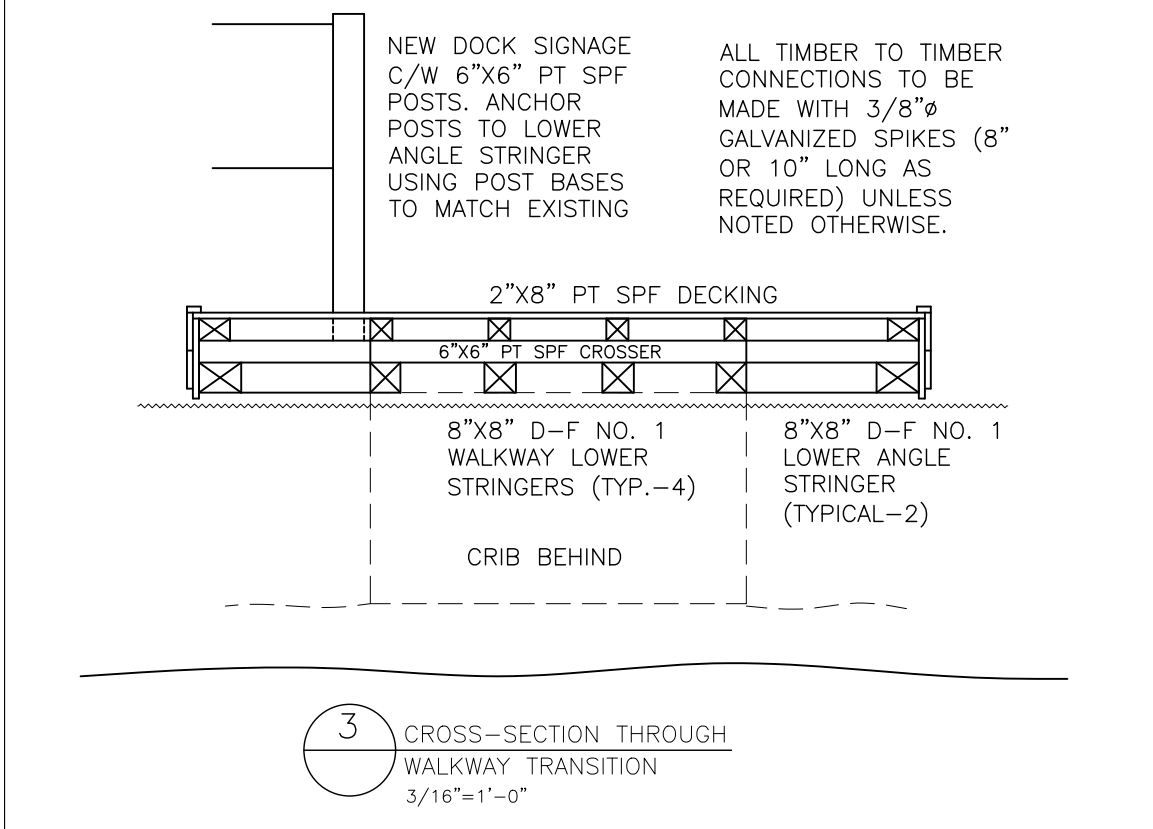
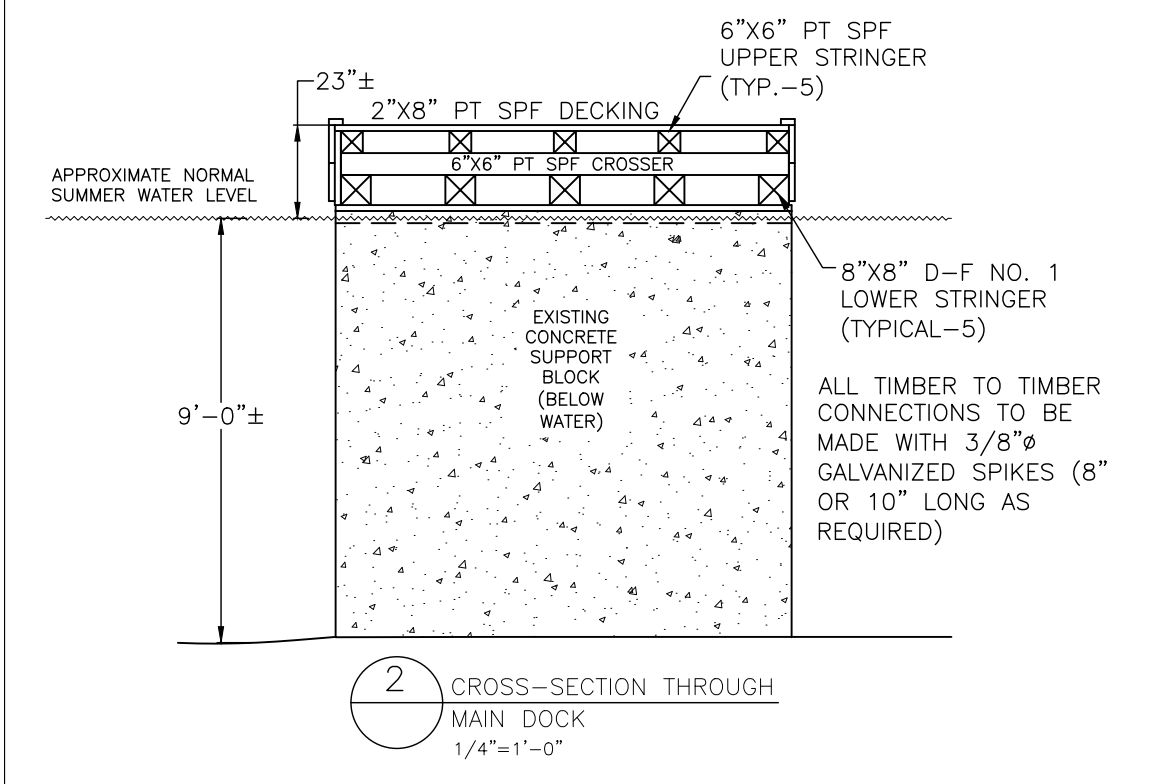
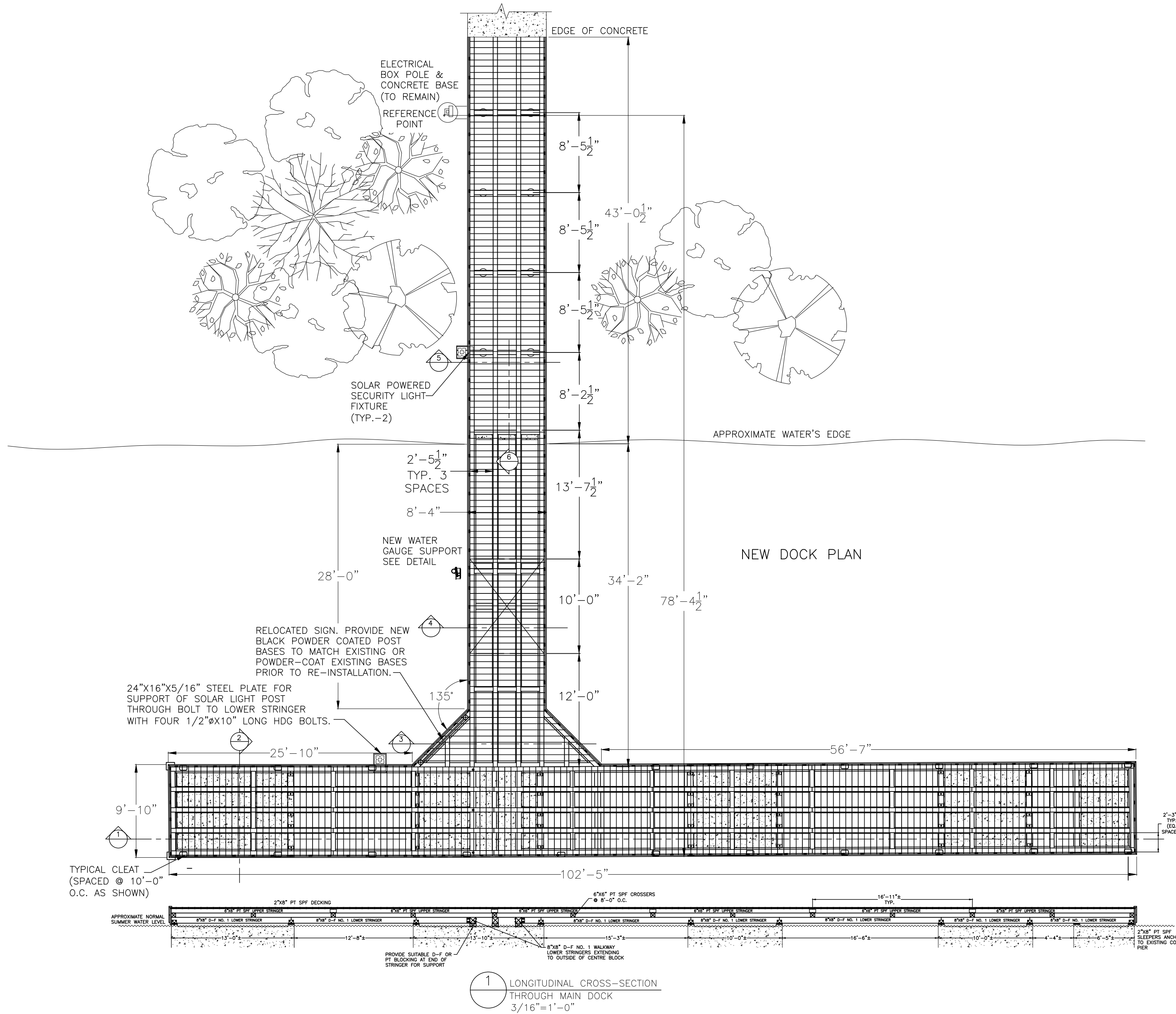
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| ISSUE/REVISIONS |         |                          |
|-----------------|---------|--------------------------|
| NO.             | DATE    | DESCRIPTION              |
| A               | 7/10/20 | RE-DESIGN CONCEPT REVIEW |
| B               | 1/12/21 | PRE-TENDER REVIEW        |
| C               | 1/28/21 | FINAL REVIEW             |
| 0               | 2/05/21 | FOR TENDER               |

**GREENER EARTH ENGINEERING & DESIGN**  
 DIV. OF TASF CANADA INC.  
 322 RIPPLE LANE  
 HUNTSVILLE, ONTARIO  
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PROJECT NAME MOON RIVER DOCK REPLACEMENT 2021  
PORTAGE STREET  
BALA, ONTARIO

DRAWING TITLE PROPOSED DOCK LAYOUT V.2

PROJECT NO. 2020-25

DRAWING NO. **S-1**

SCALE 1/8"=1'-0"

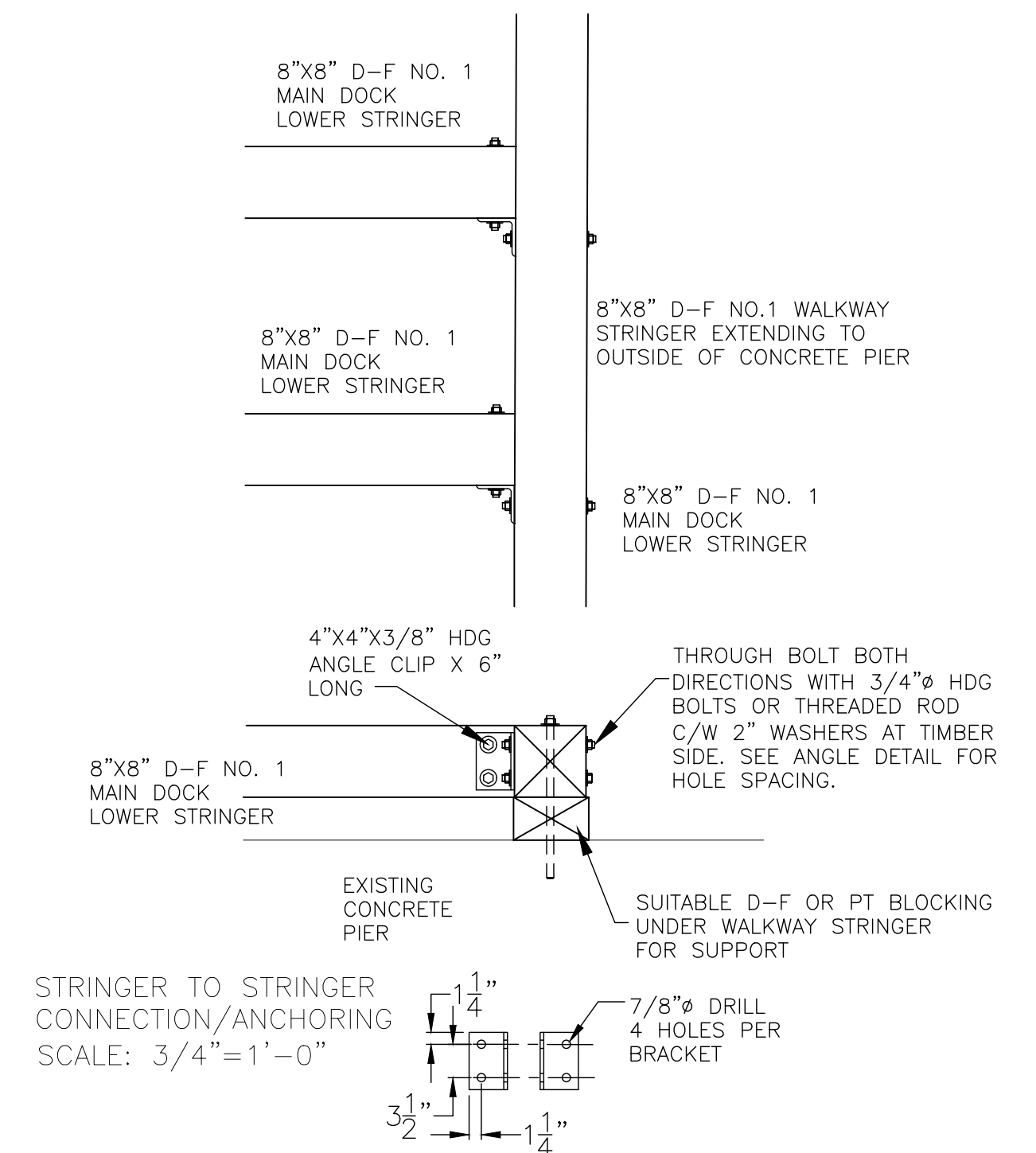
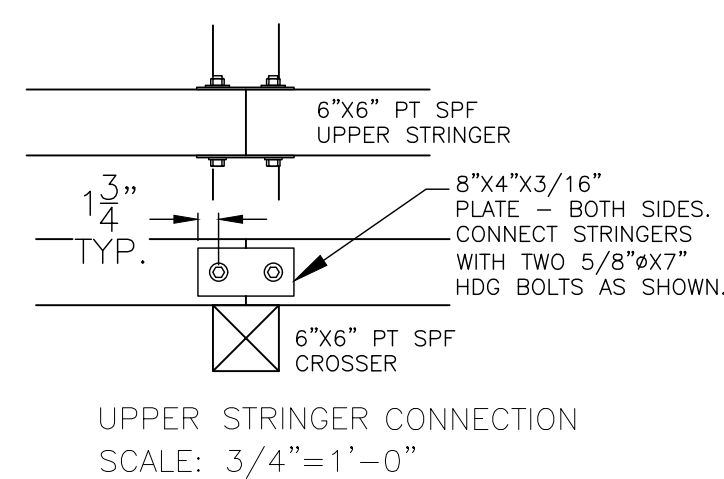
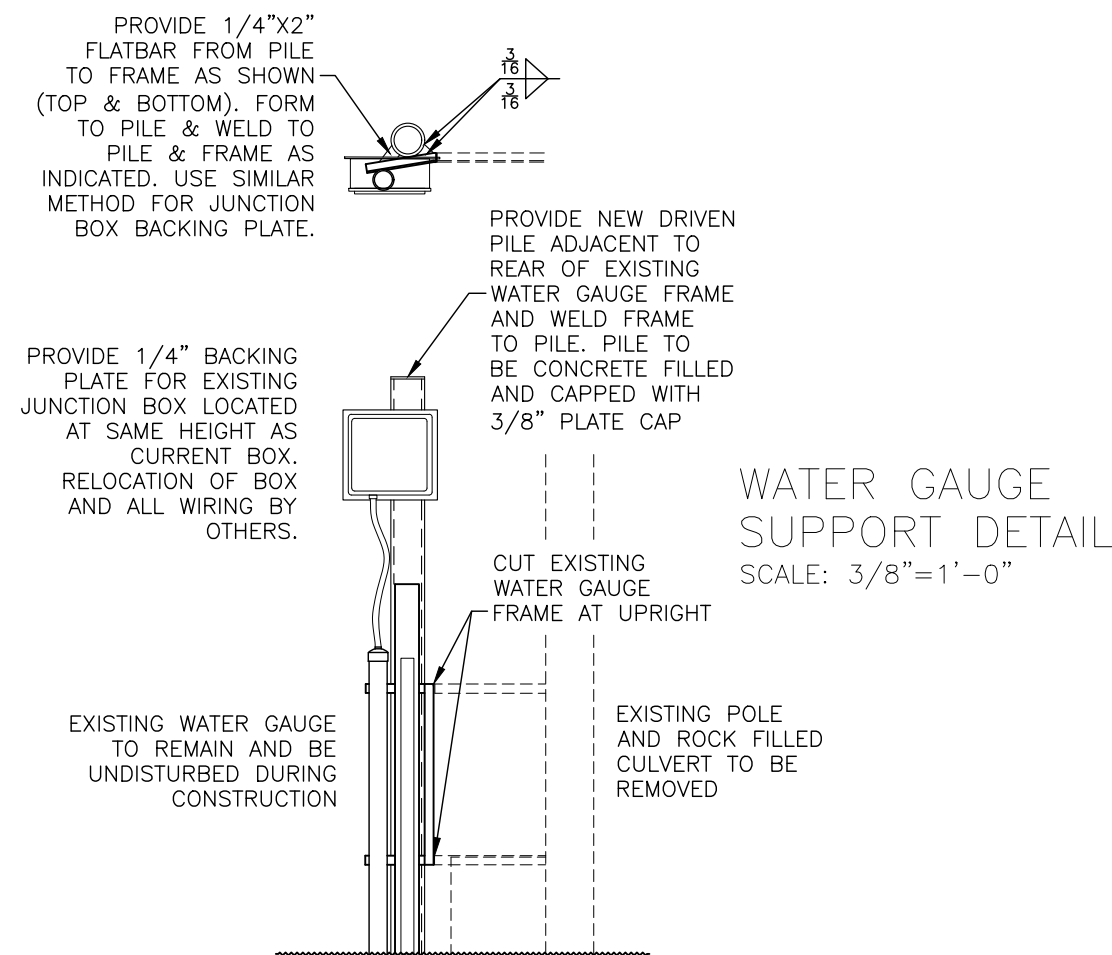
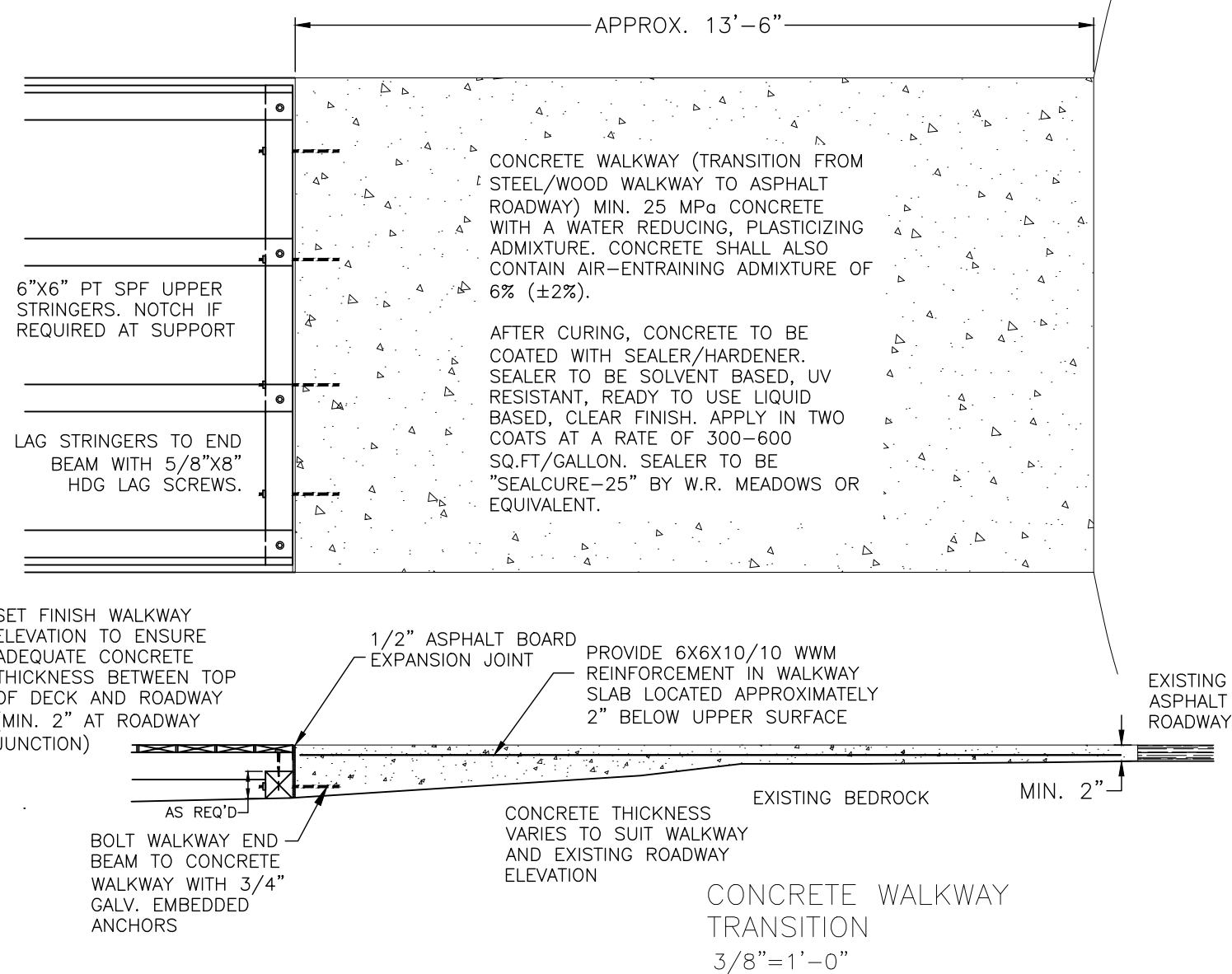
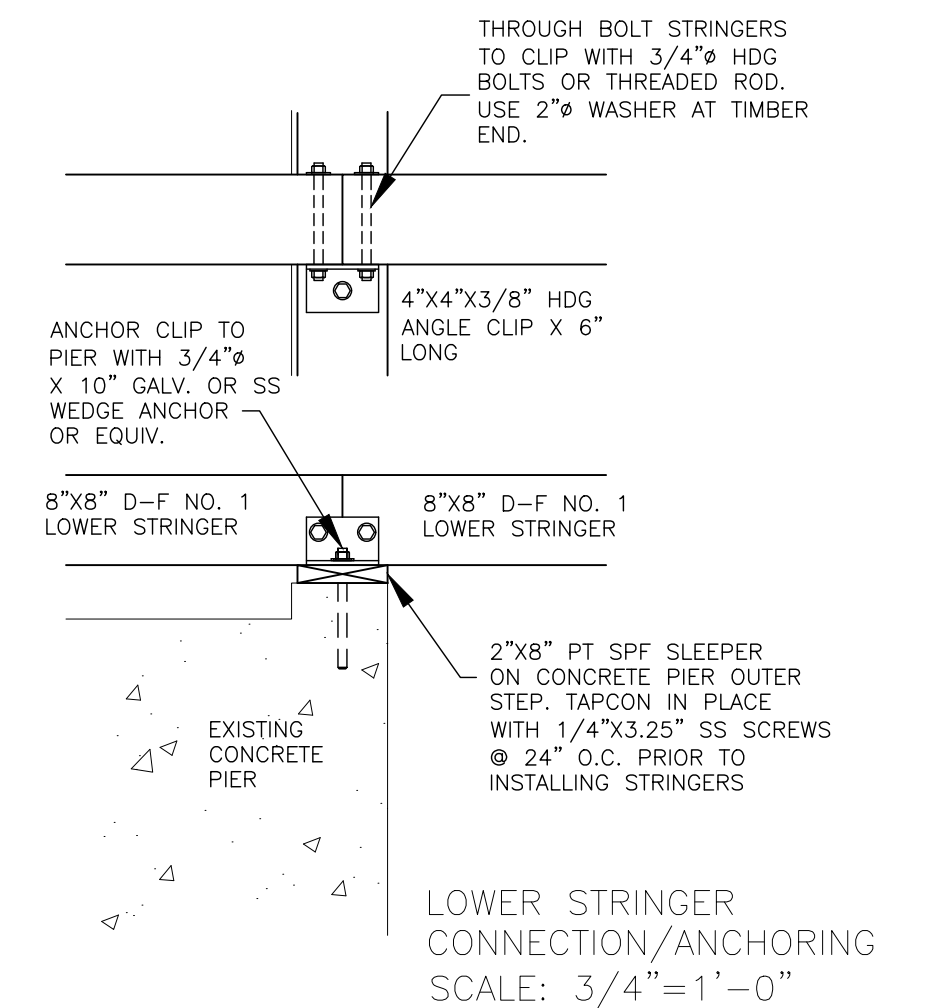
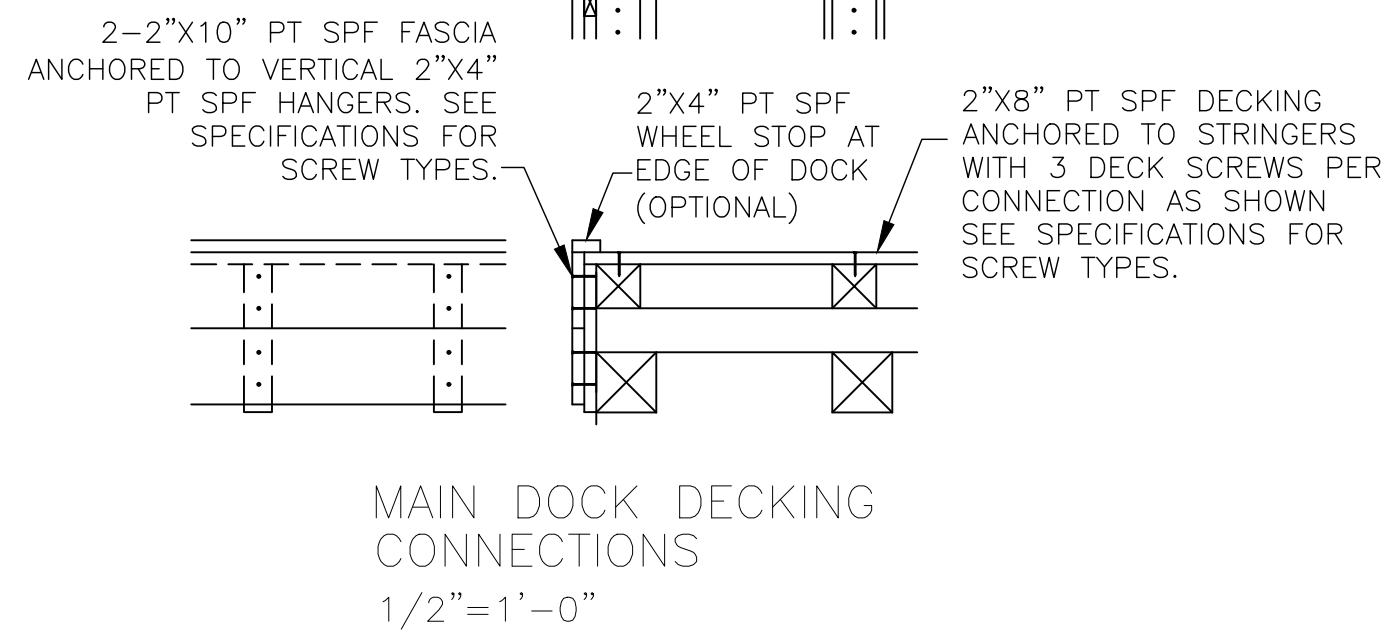
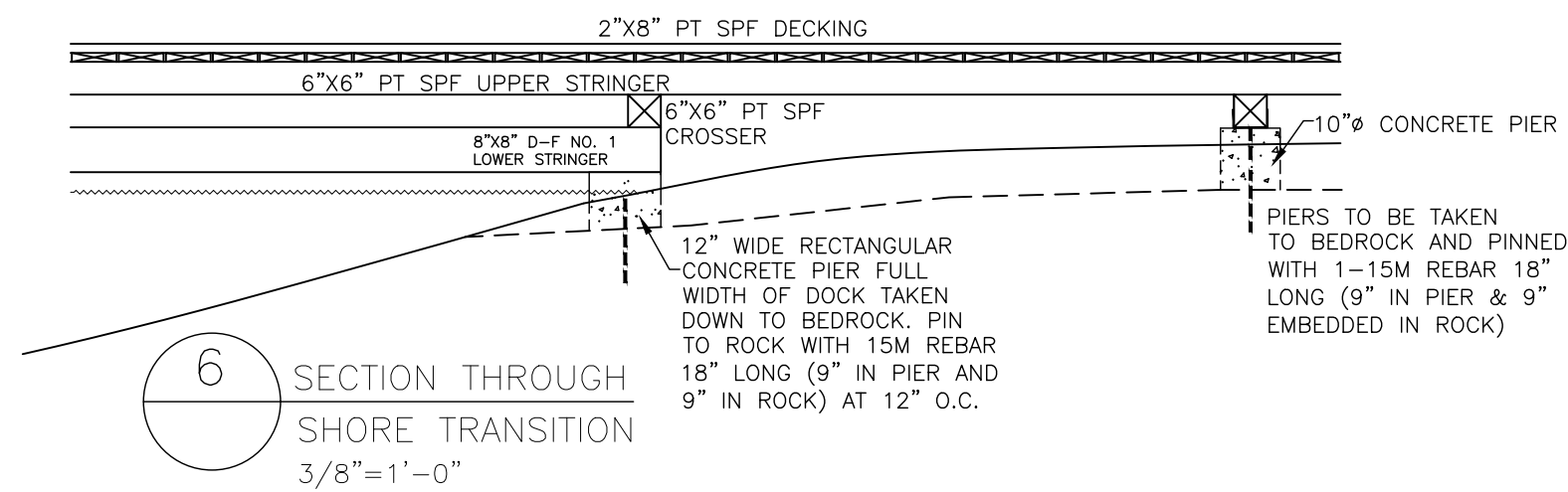
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CHECKED FP

| ISSUE/REVISIONS |         |                           |
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| NO.             | DATE    | DESCRIPTION               |
| A               | 7/10/20 | RE-DESIGN CONCEPT REVIEW  |
| B               | 7/14/20 | RE-DESIGN USING EX. CRIBS |
| C               | 1/12/21 | PRE-TENDER REVIEW         |
| D               | 1/28/21 | FINAL REVIEW              |
| 0               | 2/05/21 | FOR TENDER                |

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PROJECT NAME MOON RIVER DOCK REPLACEMENT - 2021 PORTAGE STREET BALA, ONTARIO  
DRAWING TITLE NEW DOCK SECTIONS & DETAILS  
PROJECT NO. 2020-25

DRAWING NO.

S-2

SCALE AS SHOWN

DRAWN FP

CHECKED FP

ISSUE/REVISIONS

| NO. | DATE    | DESCRIPTION       |
|-----|---------|-------------------|
| A   | 1/12/21 | PRE-TENDER REVIEW |
| B   | 1/28/21 | FINAL REVIEW      |
| 0   | 2/05/21 | FOR TENDER        |

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# SPECIFICATIONS

## 1.0 GENERAL

- .1 ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST ONTARIO BUILDING CODE, MANUALS AND OTHER CODES AND REGULATIONS IN FORCE AT THE PLACE OF THE WORK. REFER ALSO TO TYPICAL DETAILS, NOTES TO THE SHEETS, AND TO ANY APPLICABLE SPECIFICATIONS. ALL CODES, MANUALS, STANDARDS AND SPECIFICATIONS ARE TO BE THE LATEST EDITIONS INCLUDING ALL REVISIONS AND ADDENDA.
- .2 ALL DIMENSIONS ARE TO BE CHECKED AND ANY INCONSISTENCIES REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
- .3 UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESIGN FOR CONDITIONS OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR IS TO ACCEPT FULL RESPONSIBILITY FOR ALL SUCH MEASURES. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS TO SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK.

## 2.0 STRUCTURAL WOOD CONSTRUCTION:

- .1 DESCRIPTION – THE WORK SHALL CONSIST OF:
  - .1 SUPPLYING, HANDLING, HAULING, STORING AND INSTALLATION OF ALL STRUCTURAL TIMBER BEAMS, STRINGERS, AND BLOCKING AS DETAILED ON THE DRAWINGS.
- .2 MATERIAL
  - .1 WOOD CONSTRUCTION IS TO CONFORM TO CSA STANDARD Q86.1 AND TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE (2012). ALL TIMBER TO BE VISUALLY STRESS GRADED WITH STAMPED IDENTIFICATION OR DOCUMENTATION VERIFYING THAT THE GRADING IS IN ACCORDANCE WITH THE NLGA AND CSA STANDARD Q141.
  - .2 ALL UNTREATED STRUCTURAL TIMBER MEMBERS, UNLESS NOTED OTHERWISE ARE TO BE POST AND TIMBER GRADE DOUGLAS-FIR-LARCH NO. 1 OR BETTER WITH A MINIMUM SPECIFIED STRENGTH IN BENDING OF 13.8 MPa
  - .3 ALL TREATED STRUCTURAL TIMBERS TO BE POST AND TIMBER GRADE S-P-F NO. 1 OR BETTER. WOOD PRESERVATIVE TO BE WATER BORNE TYPED TO CAN/CSA 080, NATURAL CEDAR-TONE COLOUR.
  - .4 NAILS, SPIKES AND STAPLES ARE TO CONFORM TO CSA STANDARD B111, GALVANIZED FOR EXTERIOR WORK, OR HIGHLY HUMID AREAS AND FOR PRESERVATIVE TREATED LUMBER.
  - .5 METAL CONNECTORS AND ROUGH FRAMING HARDWARE, BOLTS, NUTS, WASHERS, LAGS, PINS, SCREWS, ETC. ARE TO BE HOT DIPPED GALVANIZED UNLESS NOTED OTHERWISE.
  - .6 ALL STEEL ANGLES OR PLATES SHALL CONFORM TO G40.21 M350W.
  - .7 ALL BOLTS SHALL BE A307 BOLTS. PROVIDE OVERSIZED WASHERS AS INDICATED AT TIMBER SURFACE.

## .3 EXECUTION

- .1 INSTALL ALL STRUCTURAL DOCK TIMBERS IN ACCORDANCE WITH CAN/CSA 086 EXCEPT WHERE SPECIFIED OTHERWISE USING ALL FASTENERS AS SPECIFIED WITHIN
- .2 TOUCH UP ALL END CUTS WITH PRESERVATIVE ESPECIALLY MANUFACTURED FOR THE PURPOSE – COLOUR TO MATCH PRESSURE TREATING OF UN CUT BOARDS.

## 3.0 WOOD DECKING

- .1 DESCRIPTION – THE WORK SHALL CONSIST OF:
  - .1 SUPPLYING, HANDLING, HAULING, STORING AND INSTALLATION OF ALL WOOD SLEEPERS, WOOD DECKING AND WOOD FASCIA AS DETAILED ON THE DRAWINGS.
- .2 MATERIAL
  - .1 WOOD DECKING OF SIZE AND TYPE NOTED TO NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER GRADE NO. 1 OR BETTER SPRUCE 38mm, KILN DRIED DECKING TO 15% MAXIMUM MOISTURE CONTENT.
  - .2 DECKING LENGTHS: FULL SPAN TO WIDTH OF DOCK WITHOUT INTERMEDIATE JOINTS, SQUARE END TRIMMED
  - .3 WOOD PRESERVATIVE: WATER BORNE TYPED TO CAN/CSA 080, NATURAL CEDAR-TONE COLOUR.
  - .4 FASTENERS: DECKING – "DECKWISE" #10 X 2-1/2" BUGLE HEAD 316 SS SCREWS WITH T25 HEADS.

## .3 EXECUTION

- .1 INSTALL ALL WOODEN SLEEPERS, DECKING AND FASCIA IN ACCORDANCE WITH CAN/CSA 086 EXCEPT WHERE SPECIFIED OTHERWISE USING ALL FASTENERS AS SPECIFIED WITHIN
- .2 TOUCH UP ALL END CUTS WITH PRESERVATIVE ESPECIALLY MANUFACTURED FOR THE PURPOSE – COLOUR TO MATCH PRESSURE TREATING OF UN CUT BOARDS.
- .3 REMOVE ALL TOOL MARKS, BRUISES, SCRATCHES & SPLITS TO ENSURE A SPLINTER FREE SURFACE UPON COMPLETION.

## .4 PROTECTION

- .1 PROTECT INSTALLED PRODUCTS AND COMPONENTS FROM DAMAGE DURING CONSTRUCTION.

## 4.0 STRUCTURAL CONCRETE




- .1 DESCRIPTION – THE WORK SHALL CONSIST OF:
  - .1 SUPPLY AND INSTALLATION OF ALL CONCRETE FORMWORK, REINFORCEMENT, AND READY MIX CONCRETE FOR STRUCTURAL PIERS AND SLABS AS DETAILED ON THE DRAWINGS.
- .2 MATERIAL
  - .1 ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF CAN/CSA-G30.18-09 AND SHALL BE MIN GRADE 400.
  - .2 ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A1064/A1064M-10.
  - .3 PROVIDE CAST-IN-PLACE CONCRETE OF THE TYPES AND MINIMUM 28TH DAY COMPRESSIVE STRENGTHS OF 30 MPA (4500 PSI), WATER/CEMENT RATIO – 0.45, 4" SLUMP.
  - .4 STRUCTURAL CONCRETE SHALL CONTAIN A WATER REDUCING, PLASTICIZING ADMIXTURE. ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER (AND WITHIN 4 FEET OF FINISHED GRADE) SHALL CONTAIN AIR-ENTRAINING ADMIXTURE OF 6% (±2%).
- .3 EXECUTION
  - .1 PROVIDE FORMING, REINFORCING AND CONCRETE FINISHING IN QUANTITIES AND LOCATIONS AS INDICATED ON THE DRAWING.
  - .2 ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE 19 (3/4") CHAMFER.
  - .3 ALL WELDED WIRE FABRIC SHALL BE LAPPED ONE (1) FULL MESH PANELS AND TIED SECURELY.

## 5.0 DOCK ACCESSORIES

- .1 DESCRIPTION – THE WORK SHALL CONSIST OF:
  - .1 SUPPLYING, HANDLING, HAULING, STORING AND INSTALLATION OF DOCK CORNER EDGE BUMPER, DOCK CLEATS, AND SECURITY LIGHTING AS DETAILED ON THE DRAWINGS.
- .2 MATERIAL
  - .1 CORNER EDGE BUMPER – PVC WHITE CORNER EDGE PROFILE 16 FT. LENGTH (DOCK EDGE PART NO. DE1040F OR EQUIV.)
  - .2 CLEATS – 6" DOUBLE PIVOT, SOLID MARINE GRADE ALMAG 35 ALUMINUM FLIP-UP CLEATS, WHITE. (DOCK EDGE DE2656WF OR EQUIV.)
  - .3 FASTENERS: 316 STAINLESS STEEL – SIZE AND LENGTH AS SPECIFIED BY MANUFACTURER.
  - .4 SOLAR POWERED SECURITY LIGHTING – 25W SOLAR MODULE, 16-20 Ah BATTERY, PHILLIPS LED, PHOTOCELL OPERATED, POWDER COATED ALUMINUM HOUSING, MATCHING 10 FT. ALUMINUM POLE AND BASE (SOLARVISION LX25-DIM-1605-SQ-10-BK SOLAR LIGHT, DYNAPOLE SSA4-10 POLE OR EQUIV.)
- .3 EXECUTION
  - .1 INSTALL ALL DOCK ACCESSORIES IN QUANTITIES AND LOCATIONS AS INDICATED ON THE DRAWING FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS AND USING ALL SPECIFIED FASTENERS
- .4 PROTECTION
  - .1 PROTECT ALL INSTALLED DOCK ACCESSORIES FROM DAMAGE DURING CONSTRUCTION UNTIL FINAL ACCEPTANCE OF FINISHED PROJECT BY OWNER AND ENGINEER.

## 6.0 DESIGN LOADS

- A) DOCK & WALKWAY SNOW LOAD IMPORTANCE FACTOR – NORMAL  
 DEAD LOAD = 0.72 KPA (15 PSF)  
 SNOW LOAD S = I(Ss.Cb.Cw.Cs.Ca (BASIC SNOW) + SR (RAIN))  
 GROUND SNOW LOAD (Ss) = 3.1 KPA (BRACEBRIDGE)  
 RAIN LOAD (SR) = 0.40 KPA  
 S = 2.88 KPA (60.1 PSF)  
  
 DOCK LIVE LOAD (GOVERNS)  
 DEAD LOAD = 0.72 KPA (15 PSF)  
 LIVE LOAD L = 4.8 KPA (100 PSF)
- B) ALLOWABLE DEFLECTION (DOCK) LIVE: L/240 TOTAL: L/180

|  |   |               |   |                               |         |      |                 |         |                   |
|--|---|---------------|---|-------------------------------|---------|------|-----------------|---------|-------------------|
|    |  | PROJECT NAME  | MOON RIVER DOCK REPLACEMENT - 2021<br>PORTAGE STREET<br>BALA, ONTARIO | DRAWING NO.<br><br><b>S-3</b> | SCALE   | NONE | ISSUE/REVISIONS |         |                   |
|  |   | DRAWING TITLE | SPECIFICATIONS  |                               | DRAWN   | FP   | NO.             | DATE    | DESCRIPTION       |
|  |   | PROJECT NO.   | 2020-25   |                               | CHECKED | FP   | A               | 1/12/21 | PRE-TENDER REVIEW |
|  |   |               |   |                               |         |      | B               | 1/28/21 | FINAL REVIEW      |
|  |   |               |   |                               |         |      | 0               | 2/05/21 | FOR TENDER        |
|    |   |               |   |                               |         |      |                 |         |                   |
| GREENER EARTH ENGINEERING & DESIGN<br>DIV. OF TASF CANADA INC.<br>322 RIPPLE LANE<br>HUNTSVILLE, ONTARIO<br>P1H 2K6<br>(705) 571-1751<br>greenerearthengineering@gmail.com |   |               |   |                               |         |      |                 |         |                   |