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ITT - TOWER REPLACEMENT

LL 866, Port McNicoll, Front Range

Port McNicoll, ON

MARITIME AND CIVIL INFRASTRUCTURE

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SECTION: 011100 GENERAL INSTRUCTIONS

PART 1 - GENERAL

1.1 Minimum Standards

- .1 Perform work in accordance with National Building Code of Canada (NBC) and any other code of provincial or local application. In the case of any conflict or discrepancy, the more stringent requirements shall apply.
 - .1 Meet or exceed requirements of:
 - .1 Contract documents;
 - .2 Specified standards, codes and referenced documents.

1.2 Description of Work

- .1 Work under this Contract includes but is not limited to the provision of all labour, materials, and equipment required to:
 - .1 Fabricate a new steel aid to navigation (AtoN) tower;
 - .2 Transport the tower to the project site;
 - .3 Demolish and dispose of the existing steel towers and foundations;
 - .1 Salvage and keep safe existing aid to navigation equipment (lantern and appurtenances (solar panels, batteries, cabinets), navigational daymark).
 - .4 Construct new tower foundation as per the attached drawings;
 - .5 Erect the new AtoN tower;
 - .6 Mount and install a daymark;
 - .7 Restore all disturbed areas.
- .2 The following work will be undertaken by others and is hereby excluded:
 - .1 Fabrication of navigational daymarks and mounting assemblies. These will be supplied by the Canadian Coast Guard (CCG).

1.3 Submittals

- .1 Mandatory submittals and schedule for submission are detailed below and in Appendix B2. The following identifies general requirements only. The relevant sections must be consulted for a complete listing of mandatory content.
- .2 Detailed Schedule:
 - .1 Deadline:



- .1 No later than ten (10) working days following award.
- .2 Deliverables, project construction schedule:
 - .1 The project construction schedule must detail as a minimum commencement, duration, and completion of the following tasks:
 - .1 Fabrication of the tower assembly;
 - .2 Demolition of the existing tower.
 - .3 Foundation installation (detail any anticipated curing period);
 - .4 Tower erection;
 - .3 Construction Plan:
 - .1 Deadline:
 - .1 No less than 10 working days prior to mobilization.
 - .2 Deliverables:
 - .1 A Construction Plan of sufficient detail to demonstrate that the Contractor has considered all the challenges of the project and is prepared to undertake the works in a competent and professional manner in accordance with all legislation, including:
 - .1 Bidder Qualifications (Section 011100 cl. 1.4), to include:
 - .1 Core project members (Project Manager & Site Foreman);
 - .2 Complete listing of all Subcontractors (especially tower fabricator);
 - .1 Proof of CWB certification for tower fabricator;
 - .2 Project specific safety program (Section 013530);
 - .3 Project environmental protection plan (Section 013543);
 - .4 Detailed demolition plan (Section 024116);
 - .5 Concrete construction plan (Section 033000);
 - .6 Tower erection plan (Section 133613);
 - .7 Anti-climb shop drawings (Section 133613);
 - .8 Excavation construction procedures (Section 310000)



1.4 Bidder Qualifications

- .1 The work shall be carried out under the supervision and responsibility of a sole specialized Contractor.
- .2 The Contractor shall demonstrate experience in the fabrication and installation of aid to navigation structures or other similar free standing steel structures.
 - .1 Provide one (1) current reference, complete with appropriate contact information for verification purposes only.
- .3 The Contractor shall designate the following key project members, including any subcontractors. The project members shall have completed projects of similar scope and complexity to the work described herein.
 - .1 Project Manager and Site Foreman: The project manager shall have overall responsibility for the project completion and shall be the primary contact throughout the duration of the contract. The site foreman will be the main point of contact at site.
 - .2 Tower Manufacturer: The Tower Manufacturer shall be responsible for the fabrication of the tower. Manufacturer must be certified by CWB to CSA standard W47.1, division 1 or 2.1
 - .1 Provide a copy of Canadian Welding Bureau (CWB) Certification for the fabricator and for each worker assigned to this project.
 - .3 Requests to amend the project team, following contract award, must be forwarded in writing. Coast Guard reserves the right to reject any proposal to amend the project team.

1.5 Site Location

- .1 The location of the site is as follows:
 - .1 LL 866 Front Range
 - .1 Lat./Long.: 44°45'44.79"N 79°50'2.20"W
 - .2 The closest settlement is Port McNicoll, ON (vicinity of Midland, ON).

1.6 Existing Conditions

- .1 Bidders must make their own estimate of the difficulties associated with all phases of the works.
- .2 The contractor must include in their costs all expenses related to the difficulties of working at the sites.
- .3 Photographs of the existing site are included in Appendix B1.
- .4 A geotechnical investigation has been completed for the adjacent site LL867 Port McNicoll Rear Range. A copy of the findings is provided in Appendix B4.

1.7 Contractor's Access to Site

- .1 Contractor is responsible for transportation of all labour, materials, and equipment to and from the sites, including any and all material furnished or itemized for salvage by Coast Guard.



- .2 The Site is accessible by road.
 - .1 Photographs of the site access are included in Appendix B1.
- .3 The Contractor should expect winter conditions. Any ploughing or snow clearing, if required, will be the responsibility of the Contractor.
- .4 The Contractor shall be responsible for the restoration of all routes utilized by their forces to the satisfaction of Coast Guard.

1.8 Completion, Scheduling and Planning of the Works

- .1 Work may commence as early as practical following coast guards acceptance and approval of mandatory submissions.
- .2 Service outages are to be minimized where practical. Demolition of the existing tower must not be completed until such time as the Contractor is prepared to execute the work to substantial completion, without unnecessary interruption.
- .3 Work shall be completed no later than March 20, 2015, unless otherwise negotiated and approved in writing.
 - .1 The front range must be constructed in stages as detailed below:
 - .1 Removal of the existing tower and foundation;
 - .2 Installation of the new foundation and tower in the same location.

1.9 Temporary Facilities

- .1 Provide sanitary facilities for work force in accordance with governing regulations and ordinances.
- .2 Arrange, pay for, and maintain temporary electrical power supply as required for construction, and water supply as required, in accordance with governing regulations and ordinances.
- .3 Maintain emergency spills kit on-site at all times.

1.10 Fees, Permits, Certificates and Information

- .1 Contractor shall provide authorities having jurisdiction with all information requested.
 - .1 Contractor shall provide copies to Coast Guard of any documentation submitted to other authorities related to the work described in this document.
 - .2 Contractor shall pay fees and obtain certificates and permits required.
 - .3 Contractor shall furnish certificates and permits when requested.

1.11 Reference Documents

- .1 The most recent publication or edition of any document referenced in this specification should be used unless the referencing clause states that this clause does not apply.



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1.12 Required Submissions

- .1 A summary of the minimum mandatory submissions required can be found in Appendix B2. This summary is not an exhaustive list of all submissions required for the duration of the project. Additional submissions may be required after award.

PART 2 - PRODUCTS

- 2.1 Not Used

PART 3 - EXECUTION

- 3.1 Not Used



SECTION: 013300 SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 General

- .1 This section specifies general requirements and procedures for the Contractor's submissions of documents to Coast Guard for review.
- .2 Do not proceed with the work until submitted documents or samples have been reviewed by Coast Guard.
- .3 Where items or information is not produced in SI Metric units, converted values are acceptable.
- .4 Contractor's responsibility for errors and omissions in submission is not relieved by Coast Guard's review of the submitted documents.
- .5 Notify Coast Guard, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .6 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Coast Guard's review of submission, unless Coast Guard gives written acceptance of specific deviations.
- .7 Make any changes to submissions that Coast Guard may require consistent with Contract Documents and resubmit as directed by Coast Guard.
- .8 Provide Coast Guard with a written notice, when resubmitting, of any revisions other than those requested Coast Guard.

1.2 Submission Requirements

- .1 Coordinate each submission with requirements of work and Contract Documents. Individual submissions will not be reviewed until all related information is available.
- .2 Allow three (3) working days, or as stipulated in the specifications, for Coast Guard to review the submission.
- .3 The Contractor's Engineer shall stamp and sign any submissions requiring a Professional Engineer's seal certifying his approval of samples, verification of field measurements, and compliance with Contract Documents.



SECTION: 013530 HEALTH AND SAFETY REQUIREMENTS

PART 1 - GENERAL

1.1 Scope

- .1 The Contractor shall be responsible to develop, implement and enforce a safety program which addresses all elements of the work.
- .1 Due to the specific requirements of the project the Contractor is required to include the following as minimum mandatory requirements of their submitted safety program.
 - .1 All persons working within the tower footprint shall be "Qualified" as defined in CAN-CSA S37-01

1.2 References

- .1 Work under this section shall be undertaken in strict conformance with all listed references, In the case of any conflict or discrepancy the more stringent requirements shall apply.
 - .1 Canada Labour Code Part II - January 2008
 - .2 NRC-CNRC National Building Code of Canada
 - .3 Ontario Occupational Health and Safety Act and Regulations (Latest Edition).
 - .4 CAN-CSA S37-13 Antennas, Towers, and Antenna-Supporting Structures
 - .5 Any and all other Provincial/Territorial Regulations and Policies; Worker's Compensation Board Policies; Local municipal regulations; pertaining to safety of the contractors workers

1.3 Submittals

- .1 Project Specific Safety Program
 - .1 Deadline:
 - .1 With Construction Plan
 - .2 Deliverables:
 - .1 Safety Program Document, include:
 - .1 A listing of all activities specific to this phase of the project and their Health & Safety risks or hazards.
 - .2 Detailed descriptions of how the activities are to be carried out as well as methods for mitigating hazards and risks.
 - .3 A listing of personnel responsible for health and safety measures, and Emergency procedures.



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- .4 Material Safety Data Sheets for hazardous products to be utilized in the execution of the works.



SECTION: 013543 ENVIRONMENTAL PROCEDURES

PART 1 - GENERAL

1.1 Scope of Work

- .1 The Contractor must implement and enforce the following procedures throughout the duration of the work to mitigate potential negative impacts on the surrounding environment.

1.2 References

- .1 Work under this section shall be undertaken in strict conformance with all listed references, In the case of any conflict or discrepancy the more stringent requirements shall apply.
 - .1 Canadian Environmental Protection Act

1.3 Related Sections

- .1 Not used.

1.4 Submittals

- .1 Contractor shall submit and environmental protection plan
 - .1 Deadline:
 - .1 With Construction Plan
 - .2 Deliverables:
 - .1 Submit a plan addressing procedures to be implemented to mitigate any negative impact on the environment. Detail:
 - .1 Equipment features (age, spill containment);
 - .2 Staging, refueling, and cleaning areas;
 - .3 Clean-up and/or containment procedures (including concrete/grout);
 - .4 Waste disposal methods and sites;
 - .5 De-watering plan.

PART 2 - PRODUCTS

2.1 General

- .1 Avoid use of hazardous products. Use environmentally friendly products where practical.



PART 3 - EXECUTION

3.1 Construction Area

- .1 Confine construction activities to as small an area as practical.
- .2 Establish material storage, cleaning, and refueling areas where impacts to the surrounding environment will be negligible or readily mitigated.

3.2 Stockpiling of materials

- .1 Materials must be stockpiled as far from the shoreline as practical. Tarps must be used to control dust and run-off.
- .2 Stockpiled excavated materials shall be skirted using filter fabric to control run-off of fines during rain.

3.3 Disposal of Wastes

- .1 Clean-up the site at the end of each working day.
- .2 All waste material to be disposed of in a legal manner at a site approved by local authorities. Transporter/hauler must be appropriately licensed.
 - .1 Recycle or reuse materials where possible.
- .3 Fires and burning of rubbish on site not permitted.
- .4 Do not bury rubbish and waste materials on site.

3.4 Clearing and Grubbing

- .1 Only clear vegetation that interferes with construction.

3.5 Drainage

- .1 Provide temporary drainage and pumping as necessary to keep excavations and site free from water.
 - .1 Suspend works during periods of heavy rainfall and add temporary covers to discourage run-off.
 - .2 Water pumped from excavation shall be adequately treated to ensure that water returning to the watercourse contains minimal fines. Procedures anticipated for preventing the pumping of fines shall be identified in the environmental protection plan, and may include the following:
 - .1 The use of filter bags;
 - .2 Straw bale check dams or silt fence;
 - .3 Discharge through naturally occurring vegetation.



- .3 The means for controlling silt run-off shall be dependent on the site and the quantity of water pumped, and shall be to the discretion of the CCG site staff.
- .4 Sediment control measures shall be inspected and improved/cleaned/replaced as necessary.

3.6 Pollution Control

- .1 Provide methods, means, and facilities to prevent the contamination of soil, water, and atmosphere from the discharge of pollutants produced by construction operations.
- .2 Vehicles, machinery, and equipment shall be in good repair, equipped with emission controls as applicable and operated within regulatory requirements.
- .3 Abide by local noise by-laws.
- .4 Avoid unnecessary idling of vehicles or heavy machinery.
- .5 Limit use of equipment around the shoreline where possible.
- .6 Implement and maintain dust and particulate control measures in accordance with provincial requirements:
 - .1 Use only non-toxic methods of dust control (water).
 - .2 All bulk material haul equipment shall be appropriately tarped. Watertight vehicles shall be used to haul wet materials
- .7 Designate a cleaning area for tools to limit water use and runoff. Do not allow deleterious materials to enter waterways. Ensure emptied containers are sealed and stored safely for disposal.
- .8 The contractor shall take all necessary precautions to guard against the release of any noxious substance or pollutant to the environment. In the event of any spill the Contractor shall take immediate action to contain the release and mitigate any impact.
 - .1 Materials and equipment to intercept, contain, and clean-up any spill or other release shall be maintained on site throughout the construction period and must be readily accessible at all times.
 - .2 Any uncontrolled release of a known contaminant (spills, fire/smoke) shall be reported to appropriate Provincial Authority and Coast Guard. Spills of deleterious substances to be immediately contained and cleaned up in accordance with provincial regulatory requirements.
 - .3 Provincial Authority: Ontario Spills Action Centre 1-800-268-6060

3.7 Traffic

- .1 Minimize soil compaction by driving, parking vehicles, and walking, etc. on existing paved roadways/laneways. If soil is impacted by compaction, compensate by restoring areas with new soil, as required.
- .1 Avoid the use of heavy machinery in areas of sensitive slopes. Avoid using machinery on land during wet weather.



SECTION: 014500 QUALITY CONTROL

PART 1 - GENERAL

1.1 Inspection

- .1 Canadian Coast Guard or its representative shall have access to the work at all times. If parts of the work are prepared off-site or in a shop, access shall be given to such work throughout the duration of the project.
- .2 In the event the work must be submitted to special testing, inspection or approvals prescribed by Canadian Coast Guard in these specifications or provided for in work-site regulations, the request for inspection must be made without unreasonable delay.
- .3 The below list identifies key milestones where the Canadian Coast Guard will require an opportunity to take samples/inspect:
 - .1 Tower fabrication: The Coast Guard will inspect the towers after fabrication, before galvanization and before the towers leave the fabrication shop.
 - .2 Subgrade verification: The Coast Guard will confirm that the subgrade is suitable and in line with expectations from the geotechnical study prior to the placing of either concrete or granular materials.
 - .3 Concrete testing: The Coast Guard will arrange for a third party to test the concrete for air, slump, and strength before the towers are erected.

1.2 Procedures

- .1 Provide Canadian Coast Guard with advance notice whenever testing is required in accordance with these specifications, so that all parties involved can be present.
- .2 Submit samples and material required for testing as per specifications without unreasonable delay and in a predetermined order so as not to delay work in progress.
- .3 Provide necessary manpower and installations for obtaining and handling samples and material on site.

1.3 Rejected Work

- .1 Remove defective work, whether incorporated into the work or not, which has been rejected by Canadian Coast Guard as failing to comply with the contract documents. Replace or re-execute in accordance with the Contract Documents.

1.4 Tests and Mixture Formulas

- .1 Supply test reports and required mixture formulas.

1.5 Factory Tests

- .1 Submit test certificates as prescribed in the relevant section of the specifications.



1.6 Acceptance of Work

- .1 Canadian Coast Guard will make acceptance visits of work executed by the Contractor at critical milestones identified in the following sections.
- .2 The Contractor shall inform Canadian Coast Guard at least three (3) working days before these inspection visits.
- .3 All work shall be completed in compliance with the specifications before requesting the visit for inspection. If the work is not completed or deemed non-compliant, the Contractor shall be responsible for all costs incurred for subsequent inspections.



SECTION: 016100 COMMON PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 General

- .1 Secure Coast Guard approval of all products to be incorporated into the works. Work shall not commence until product data and/or samples have received Coast Guard approval.
- .2 Supply and/or fabricate material and equipment of prescribed quality, with performance conforming to established standards.
- .3 Use new material and equipment unless otherwise specified.
- .4 Ensure replacements parts may be readily procured.
- .5 Use products from one manufacturer for material and equipment of same type or classification, unless otherwise specified.

1.2 Manufacturer's Instructions

- .1 Unless otherwise specified, comply with manufacturer's latest printed instructions for materials and installation methods.
- .2 Notify Canadian Coast Guard in writing of any conflict between these specifications and manufacturer's instructions; Canadian Coast Guard will designate which document is to be followed.

1.3 Compliance

- .1 When material or equipment is specified by standard or performance specifications, upon request of Canadian Coast Guard, obtain an independent testing laboratory report from the manufacturer, stating that material or equipment meets or exceeds specified requirements.

1.4 Substitution

- .1 Where specific products have been specified, proposals for substitution may only be submitted after award of contract. Such requests must include statements of respective costs of items originally specified and the proposed substitution.
- .2 No substitutions will be permitted without prior written approval of Canadian Coast Guard. Substitutions will be considered by Canadian Coast Guard only when:
 - .1 Materials specified in Contract Documents, are not available; or,
 - .2 Delivery date of materials selected from those materials specified would unduly delay completion of contract; or,
 - .3 Alternative materials to those specified which are brought to the attention of and considered by Canadian Coast Guard as equivalent to the material specified will result in a credit to the Contract amount.



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- .4 Should the proposed substitution be accepted either in whole or in part, the Contractor must assume full responsibility and costs when such substitution affects other work on the project including any and all design or drawing changes required as a result of substitution.

1.5 Submittals

- .1 Provide product specifications and/or samples upon request from Coast Guard.



SECTION: 024116 DEMOLITION OF STRUCTURES

PART 1 - PART 1 - GENERAL

1.1 Scope of Work

- .1 Work under this section consists of the provision of all labour, materials, and equipment necessary to complete the following activities:
 - .1 Demolition of the existing steel tower and concrete foundations;
 - .1 Salvage and keep safe existing aid to navigation equipment (lantern and appurtenances (solar panels, batteries, cabinets), navigational daymark).
 - .2 Disposal of all waste at a licensed waste disposal facility.

1.2 References

- .1 Work under this section shall be undertaken in strict conformance with all listed references, In the case of any conflict or discrepancy the more stringent requirements shall apply.
 - .1 Canada Labour Code Part II - January 2008.
 - .2 NRC-CNRC National Building Code of Canada 2005.
 - .3 Ontario Occupational Health and Safety Act and Regulations (Latest Edition).
 - .4 CSA S350-[M1980(R1998)], Code of Practice for Safety in Demolition of Structures.

1.3 Submittals

- .1 Contractor to provide demolition plan.
 - .1 Deadline:
 - .1 With Construction Plan.
 - .2 Deliverables:
 - .1 Method of demolition including all associated tasks and schedule;
 - .2 Methods for protecting the site and surrounding private property from demolition debris.
 - .3 The ultimate disposal location of all waste materials and debris.
 - .1 Include documentation detailing regulatory approval for waste disposal facility and transporter.
- .2 Work under this section shall not proceed until written approval of the demolition plan has been received from the Coast Guard.
- .3 Submit copies of certified receipts from the disposal sites for all material removed from the work site upon request.



1.4 Existing Conditions

- .1 Existing tower has reached its life expectancy. Contractor must insure that the tower is dismantled and demolished in a safe manner.
 - .1 Photos of the existing tower and structural takeoff are included in Appendix B1.
- .2 The existing foundations must be removed.
 - .1 Photographs of the existing tower foundations are included in Appendix B1.
 - .1 The existing foundations are anticipated to be four shallow concrete blocks roughly 1.5x1.5x1.5m

PART 2 - PART 2 - PRODUCTS

- 2.1 Not used.

PART 3 - PART 3 - EXECUTION

3.1 General

- .1 Work under this section shall be continuous and proceed without interruption unless otherwise approved by Coast Guard.
- .2 Towers shall be dismantled in place. Towers shall not be felled without the specific authorization of Coast Guard.
- .3 Demolition work shall not commence until the Canadian Coast Guard has approved the removal of the aid to navigation.

3.2 Protection

- .1 Prevent movement, settlement or damage of adjacent structures/vegetation.
- .2 Implement effective controls to catch/collect all tower debris during demolition, specifically paint.
- .3 Implement effective controls to prevent injury to workers, mariners, motorists, and pedestrians.

3.3 Preparation

- .1 Erect warning signs and barricades.
- .2 Ensure all environmental protection/mitigation measures are in place.
- .3 Ensure facilities have been de-energized.
- .4 Ensure all items identified for salvage have been removed and stored.



3.4 Demolition

- .1 Demolish existing steel structures in their entirety.
- .2 Demolish existing concrete foundations
- .3 Ensure that demolition does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
- .4 Ensure demolition is undertaken safely. If at any period during demolition the safety of the Contractor's staff cannot be maintained take preventative measures, stop work and immediately notify Coast Guard.

3.5 Disposal

- .1 All waste materials are to be disposed of off-site at a licensed disposal/recycling facility.



SECTION: 033000 CONCRETE WORK

PART 1 - GENERAL

1.1 Scope of Work

- .1 Work of this section includes the supply of all labour, material, and equipment, necessary to complete the installation of the tower foundation per the drawing provided in appendix B3
- .2 Work includes any and all provisions necessary to ensure that the anticipated performance of the placed concrete will be obtained if work is undertaken in cold weather.

1.2 References

- .1 Work under this section shall be undertaken in strict conformance with all listed references, In the case of any conflict or discrepancy the more stringent requirements shall apply.
 - .1 Canada Labour Code Part II - January 2008
 - .2 NRC-CNRC National Building Code of Canada 2010
 - .3 Ontario Occupational Health and Safety Act and Regulations
 - .4 CAN/CSA-A23.1-04 Concrete Materials and Methods of Concrete Construction
 - .5 CAN/CSA A23.2-04 Methods of Test and Standard Practices for Concrete
 - .6 CAN/CSA-G30.18 Billet Steel Bars for Concrete Reinforcement
 - .7 CAN/CSA S269.3 Concrete Formwork
 - .8 ACI Specification 306 Cold Weather Concreting

1.3 Submittals

- .1 Submittals shall be forwarded to Coast Guard in accordance with the provisions of section 013530.
- .2 Concrete Mix Parameters:
 - .1 Deadline: furnish with Construction Plan
 - .2 Deliverables:
 - .1 Provide a summary of mix properties and admixtures to demonstrate compliance with Coast Guard Criteria.
 - .2 Provide MSDS, (pre-mixed products only).
- .3 Concrete placement methods and curing procedures
 - .1 Deadline: furnish with Construction Plan (Section 011100)



.2 Deliverables:

.1 detailed written description of concrete placement, including:

- .1 The source of the ready mix concrete;
- .2 Placement methods and procedures to control consolidation/segregation;
- .3 Request for cold joints, contractor must submit a sketch identifying the location of any suggested cold joints if they are required.
- .4 Finishing procedures
- .5 Curing methods and schedule
- .6 Clean-up procedures; and,
- .7 Mitigation measures to account for hot or cold temperatures where reasonably anticipated during the construction period.

1.4 Quality Assurance

- .1 Coast Guards minimum inspection requirements are detailed below. The Contractor shall be responsible to notify Coast Guard of the date and time that the works may be inspected. Notice must be provided no less than three (3) working days in advance to permit scheduling of quality assurance testing. All deficiencies in the works identified at the time of inspection shall be remedied to the satisfaction of Coast Guard, by the Contractor at their expense. Work shall not progress until inspections have been completed and the Contractor has been provided with written notice to proceed with the works.
 - .1 Upon completion of formwork and placement of reinforcement.
 - .2 During execution of concrete placement.

PART 2 - PRODUCTS

2.1 Formwork

- .1 Shall be in accordance with CAN CSA S269.3.

2.2 Concrete

- .1 Concrete shall possess the minimum characteristic detailed in the Contract Drawings.
 - .1 For clarity, concrete employed may be commercially available pre-batched and prepackaged mix or locally available ready-mix concrete.

2.3 Water

- .1 Water utilized for the production concrete must be potable, unless otherwise approved in writing by Coast Guard.



2.4 Anchor Bolts

- .1 The contractor is responsible for the supply and installation of all anchor rods as per the foundation drawings. This includes the levelling nuts, washers and double nuts.
- .2 Bolts must be AISI 4140 HT 1" rod and shall be bent such that the vertical dimension is 730mm, including 140mm threads, and such that the horizontal dimension is 229mm. Bend radius shall be approximately 89mm.
 - .1 Alternative arrangements maintaining required development length and material requirement will be entertained.
- .3 Bolts shall be heavy hex conforming to ASTM A325, and washers shall be ASTM F436.
- .4 All hardware shall be hot dip galvanized to CSA G164.
 - .1 Each anchor bolt shall be long enough to allow for one [1] leveling nut under the baseplate and two [2] nuts and one [1] flat washer above the baseplate.

2.5 Reinforcement

- .1 Reinforcing steel must be as mandated in CAN CSA A23.1
 - .1 Grade 400W unless otherwise identified in the Contract Drawings.
 - .1 All bars shall be deformed, uncoated unless otherwise identified in the Contract Drawings.
- .2 Bar supports must be as mandated in CAN CSA A23.1, 6.6.7.2

PART 3 - EXECUTION

3.1 General

- .1 Concrete must be placed, finished, and cured in accordance with the Contractor's submitted construction plan.

3.2 Preparation

- .1 Preparation shall not commence until bearing surfaces have been inspected by Coast Guard.
- .2 Remove all loose and deleterious material.
- .3 Construct forms as detailed in the submitted construction plan.
- .4 Place reinforcement in accordance with Contract Drawings.
- .5 Surfaces to be heated as necessary to account for climatic conditions at the time of the pour.
- .6 If the rebar cage as detailed is not strong enough to maintain the designed shape, the contractor is responsible for installing additional bars to keep the cage in shape during construction.



- .1 The cage shall be adequately supported to carry the weight of a worker, if the contractor intends on walking on the rebar.

- .7 75mm clearance shall be maintained on the top face, bottom face and on all sides.

3.3 Placement

- .1 Concrete placement shall not commence until formwork and reinforcement have been inspected by Coast Guard.

- .1 Concrete cover over reinforcement shall be no less than 75mm (3"), typical.

- .2 Contractor shall place finish and cure concrete as per CAN CSA A23.1 making all adjustment necessary to account for climatic conditions anticipated during the curing period.

- .3 Concrete shall be placed in one continuous pour.

- .1 The development of cold joints must be previously approved in writing.

- .4 Finish exposed concrete surfaces to provide a lightly brushed non-skid surface.

- .5 Cut control joints where specified.

- .6 Contractor shall provide samples as required during placement operation for the performance of quality assurance testing.

- .7 Concrete shall be finished so as to slope gently away from the center of the slab. No water shall pond on the finished surface.

- .8 .All exposed 90° edges shall be chamfered.

3.4 Curing

- .1 Shall be undertaken in accordance with CAN CSA A23.1 and the Contractor's approved Construction Plan.

- .1 Curing regiment employed must take into account local climatic conditions reasonably anticipated to occur during the curing period.

- .1 Heating and hording of the works must be anticipated.



SECTION: 133613 METAL TOWERS

PART 1 - GENERAL

1.1 Scope of Work

- .1 Work under this section includes the supply of all labour, material, and equipment required to complete:
 - .1 Fabrication of the tower;
 - .2 Transportation of the tower and all associated hardware to the project site;
 - .3 The installation of the tower as detailed in the appended Contract Drawings; .
 - .4 The installation of all salvaged aid to navigation equipment as detailed in Section 024116.

1.2 References

- .1 Work under this section shall be undertaken in strict conformance with all listed references. In the case of any conflict or discrepancy the more stringent requirements shall apply.
 - .1 Canada Labour Code Part II.
 - .2 NRC-CNRC National Building Code of Canada.
 - .3 CSA S37-01 - Antenna Towers and Antenna Supporting Structures.
 - .4 CAN/CSA S16.1 - Limit States Design of Steel Structures.
 - .5 CAN/CSA G164 - Hot Dip Galvanizing of Irregularly Shaped Articles.

1.3 Related Sections

- .1 Section 033000, Concrete
- .2 Section 310000, Earthwork and Foundations

1.4 Submittals

- .1 Submittals shall be forwarded to Coast Guard in accordance with the provisions of section 013530.



.2 Erection Plan:

.1 Deadline:

- .1 With construction plan.

.2 Deliverables:

.1 Plan must clearly demonstrate procedures and methods to be employed to:

- .1 Erect the tower;
- .2 Monitor that turn of nut has been completed;
- .3 Measures taken to protect surrounding property;
- .4 Field remedies to address any damage to the coating system incurred during transportation and erection;
- .5 Coast Guard reserves the right to request additional documentation verifying the suitability of the proposed labour and equipment anticipated to be employed in the erection of the tower. Certification required may include:
 - .1 Crane/helicopter capacity.

.3 As-built Drawings:

.1 Deadline:

- .1 Within 21 calendar days following final acceptance of the works by Coast Guard.

.2 Deliverables:

- .1 A complete set of as-built drawings detailing any and all amendments or revisions to the previously submitted design drawings or documentation indicating final works are as detailed in design drawings.
- .2 Provide one (1) electronic copy (.pdf) format or one (1) hard copy

1.5 Quality Assurance

.1 Coast Guards minimum inspection requirements are detailed below. The Contractor shall be responsible to notify Coast Guard of the date and time that the works may be inspected. Notice must be provided no less than three (3) working days in advance to permit scheduling of quality assurance testing. All deficiencies in the works identified at the time of inspection shall be remedied to the satisfaction of Coast Guard, by the Contractor at their expense. Work shall not progress until inspections have been completed and the Contractor has been provided with written notice to proceed with the works:

- .1 Upon Completion of fabrication and prior to hot dip galvanizing. The tower shall be fully constructed, however may be laid on its side for this inspection.
- .2 During erection to confirm turn of nut procedures are being followed.



PART 2 - PRODUCTS

2.1 Materials

.1 Steel:

- .1 As specified in Contract Drawings.

.2 Coatings:

.1 Galvanizing:

- .1 All materials, structural steel, pipe and fittings, including bolts, nuts and washers shall be hot dip galvanized to the requirement of the National Building Code, CAN/CSA S16.1, and CSA-G164 and as otherwise specified therein.

.3 Bolts, Nuts, Washers:

- .1 As specified in Contract Drawings, and supplied by CCG.

.4 Miscellaneous Materials:

.1 Cotterman Gate:

- .1 Tower shall be supplied with a fully functioning, automatically closing Cotterman gate installed between the upper platform and the step-off platform.

- .1 Model AG2440SS – 24” – 40” stainless steel.

.2 Fall Restraint System.

- .1 DBI SALA LAD-SAF flexible cable system, and supplied by CCG.

.3 Anti-Climb System:

- .1 Towers shall be equipped with an anti-climb system.

- .2 The Contractor shall determine the design and submit drawings for the proposed anti-climb system for approval by the CCG.

- .3 Requirements of the proposed design include:

- .1 Only the bottom 10' of the ladder shall be protected by the anti-climb;
- .2 A method of locking the anti-climb shall be provided;
- .3 The anti-climb system shall be hinged;
- .4 All metal parts shall be hot dip galvanized;



- .4 Base grout:
 - .1 Non shrink, gassing, cementitious grout.
 - .1 Sika M-Bed Standard, or equal.

PART 3 - EXECUTION

3.1 Fabrication

- .1 All members shall be fabricated in accordance with the Contract Drawings and as per the specified references.
- .2 Fabricator must be certified by CWB to CSA standard W47.1, division 1 or 2.1. Fabricators will be asked to provide proof of such certification.
- .3 In any bending or reworking of any material, methods employed shall ensure that the physical properties of the material are not impaired.
- .4 The Contractor shall ensure that electrical continuity exists between all tower sections.

3.2 Protective Coatings

- .1 Galvanizing:
 - .1 The contractor will be responsible to ensure that all tower components have been hot dip galvanized to the standards identified herein.
 - .2 All materials and welded assemblies shall be completely fabricated before galvanizing (except the tapping of nuts).
 - .3 Before galvanizing, the steel shall be thoroughly cleaned of all paint, grease, rust, scale or other materials that will interfere with proper binding of the zinc with the steel.

3.3 Handling of Material and Transportation

- .1 The Contractor shall take all necessary precautions to avoid damage to the tower members or to tower coating during transport, unloading and erection. All components or damaged members shall be replaced to the satisfaction of Coast Guard at the expense of the Contractor.
- .2 It is the responsibility of the Contractor to ensure that the tower sections, particularly the joints are protected from bending and alignment damage.

3.4 Site preparation

- .1 Complete installation of all foundation elements prior to tower erection.
- .2 Extra concrete cylinders shall be cast and broken to determine foundation strength prior to erection. This will be coordinated by CCG staff.
- .3 Adjust supporting/leveling nuts to uniform elevation.



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3.5 Erection

- .1 Erect tower in accordance with submitted plan.
- .2 Preserve electrical continuity between all sections.
- .3 Grout between tower base and prepared concrete foundation.
- .4 All bolted connections shall be made following the turn of nut procedure.



SECTION: 310000 EARTHWORK

PART 1 - GENERAL

1.1 General

- .1 Work of this section includes the supply of all labour, material and equipment required to complete:
 - .1 The excavation for the installation of tower base foundation, including:
 - .1 Stripping and stockpiling of existing topsoil or granular materials to expose subgrade;
 - .2 Completing the excavation to the required depth and area, while maintaining side slopes;
 - .3 Installation and operation of heating and hording system and/or other measures required to prevent exposed subsoils from freezing.
 - .1 Alternately the contractor may elect to ensure that the excavation is not left open, and that all granular 'B' is placed immediately after opening the exaction;
 - .4 Backfilling of the excavation, including:
 - .1 Supply of all required materials;
 - .2 Placement and compaction of granular base for the footing;
 - .3 Placement and compaction of back-fill around the completed footing.
- .2 The restoration of all disturbed areas within the work site, to a level equal to that at which the site was found.

1.2 References

- .1 Work under this section shall be undertaken in strict conformance with all listed references, In the case of any conflict or discrepancy the more stringent requirements shall apply.
 - .1 Canada Labour Code Part II - January 2008.
 - .2 NRC-CNRC National Building Code of Canada 2010.
 - .3 Ontario Occupational Health and Safety Act and Regulations.
 - .4 CAN/CSA-A23.1-04 Concrete Materials and Methods of Concrete Construction.
 - .5 Any and all other Provincial/Territorial Regulations and Policies; Worker's Compensation Board Policies; Local municipal regulations; pertaining to work of this section.

1.3 Related Sections

- .1 Section 133613, Metal Towers



1.4 Submittals

- .1 Submittals shall be forwarded to Coast Guard in accordance with the provisions of section 013530.
- .2 Construction procedures:
 - .1 Deadline: with Construction Plan.
 - .2 Deliverables:
 - .1 Written Plan: Excavation and backfill procedures detail:
 - .1 Proposed side slopes and control measures
 - .2 Include shop drawings of any shoring or bracing required. Drawings must be stamped by a licensed professional engineer.
 - .3 Dewatering measures, if necessary
 - .4 Measures to be undertaken to prevent exposed soils from freezing;
 - .5 Stockpile locations and methods for controlling erosion.
 - .6 Backfill placement: document equipment and procedures. Provide methods for undertaking backfill placement in cold weather, if reasonably anticipated.

1.5 Existing Conditions

- .1 A geotechnical investigation has been completed at this site a copy of the report is included in Appendix B4.
- .2 Before commencing work under this section the Contractor must establish the location of all buried services that may interfere with the execution of the work.

1.6 Quality Assurance

- .1 Coast Guards minimum inspection requirements are detailed below. The Contractor shall be responsible to notify Coast Guard of the date and time that the works may be inspected. Notice must be provided no less than three (3) working days in advance to permit scheduling of quality assurance testing. All deficiencies in the works identified at the time of inspection shall be remedied to the satisfaction of Coast Guard, by the Contractor at their expense. Work shall not progress until inspections have been completed and the Contractor has been provided with written notice to proceed with the works.
 - .1 Bearing surfaces prior to backfill or formwork placement.
 - .2 Work of this section shall be undertaken in the presence of Coast Guard or its designated representative.



PART 2 - PRODUCTS

2.1 General

- .1 All materials described in this section shall be supplied by Contractor.

2.2 Water

- .1 Shall be free of deleterious material.

2.3 Aggregate

- .1 Aggregate shall be 20-0mm Type II Granular 'B' as per OPSS 1010.

2.4 Backfill

- .1 Backfill must not be frozen.
- .2 Backfill must consist of stockpiled native (excavated) materials; or,
- .3 20-0mm Granular 'B' Type II as per OPSS 1010.

PART 3 - EXECUTION

3.1 Site Preparation

- .1 Prior to commencing excavation, document the condition of all existing structures, landscaping, roadways, and other adjacent facilities anticipated to be impacted by the work.
- .2 Install any features required to protect existing infrastructure.
- .3 Contractor shall ensure that appropriate locates have been completed at the site prior to excavating.

3.2 Excavation

- .1 Strip topsoil over areas impacted by new construction. Stockpile materials on-site
- .2 Excavate the area indicated in Appendix B3.
 - .1 Side slopes must be maintained around the perimeter of the excavation in accordance with provincial legislation.
 - .2 Engineered shoring and bracing to be constructed in accordance with submitted excavation plan.
- .3 Install measures as detailed in Construction Plan to prevent excavation from freezing.
- .4 Take all reasonable precautions to minimize the disturbance of the existing vegetation.



3.3 Backfill

- .1 Ensure that surrounding soil is unfrozen or take measures required to thaw frozen materials.
- .2 Backfill to be placed in uniform lifts to a maximum depth of 0.15m (6") and compacted to 95% SPMDD.

3.4 Restoration

- .1 Restore all disturbed areas within work area and along haul routes. Fill and grade all ruts. Ensure positive drainage away from completed and existing foundations.
- .2 Excavated materials shall not be removed from site, but shall be used given the following priority:
 - .1 Backfill around new foundation;
 - .2 Backfill any voids created during the demolition of existing tower;
 - .3 Spread remaining soils on site to the discretion of the CCG staff representative on-site.
 - .4 Any damage to grass on the residential property to the south of the range line shall be repaired using sod in the spring.



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APPENDIX B1: EXISTING CONDITIONS

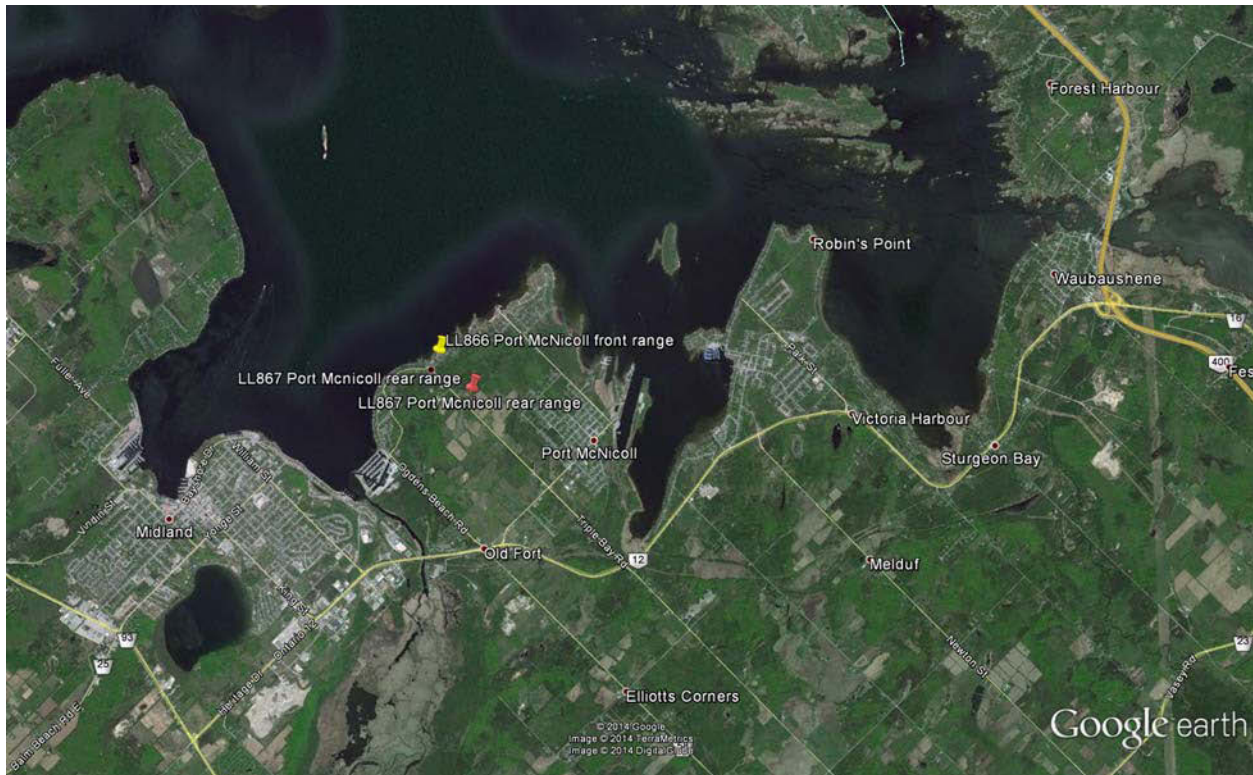


Figure 1, Project location
LL866 Port McNicoll, Front Range
Tower location, 44°45'44.79"N 79°50'2.20"W

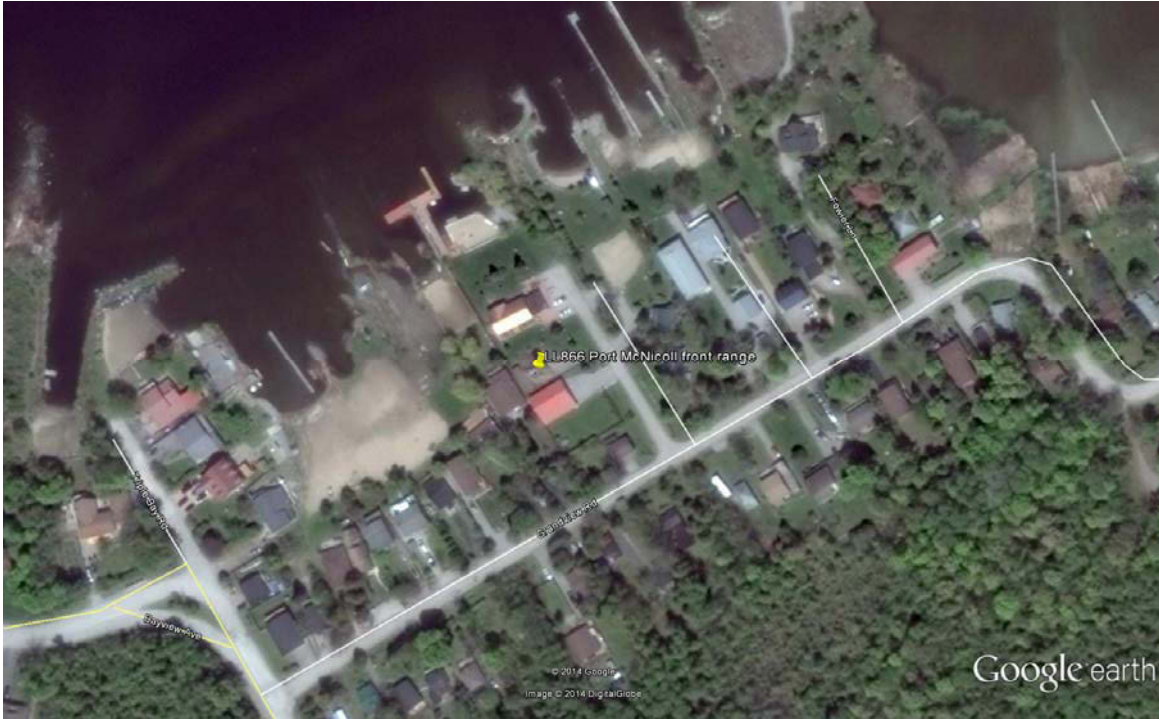


Figure 2: Project Location
LL 866, Surrounding Properties

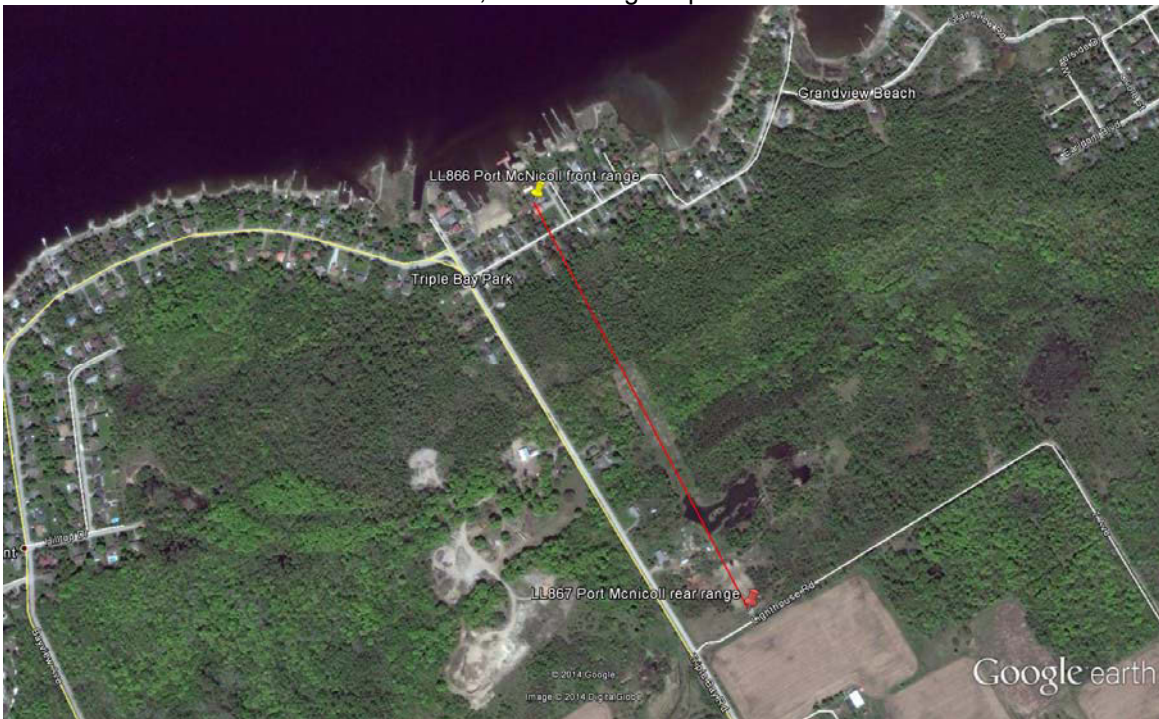


Figure 3: Range Alignment
Rear Range, LL867, $44^{\circ}45'22.25''N$ $79^{\circ}49'45.69''W$
Distance between sites approximately 780m



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Figure 4: Existing Tower



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Figure 5: Existing Range Configuration



Figure 6: Existing foundation



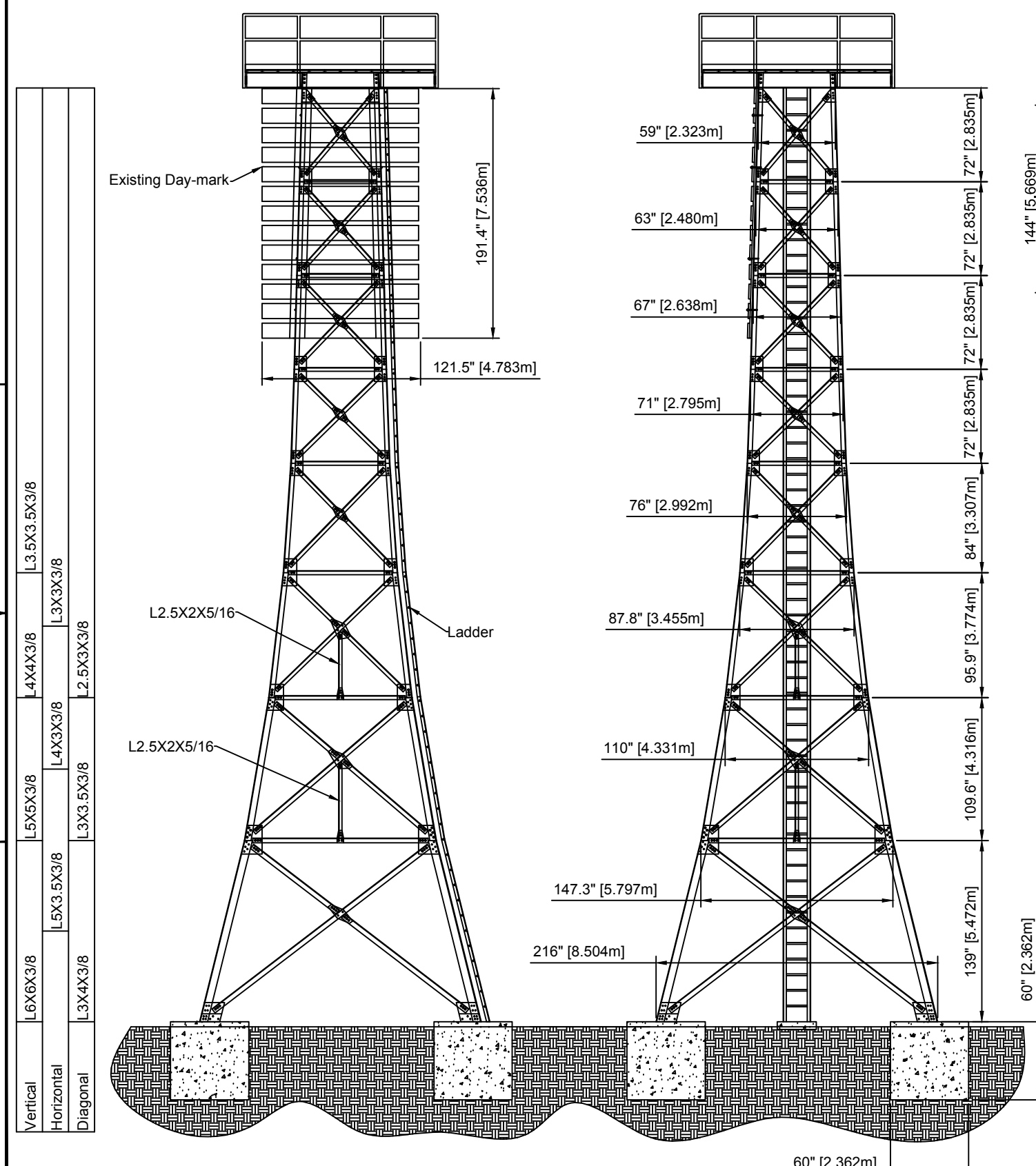
Figure 7: Existing Foundation

C

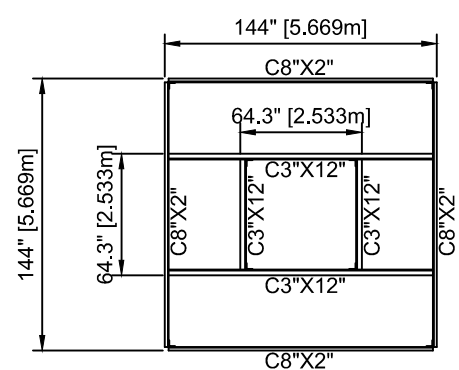
B

A

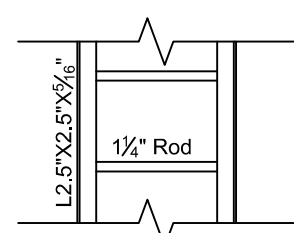
11146-PRI



TOWER SECTIONS

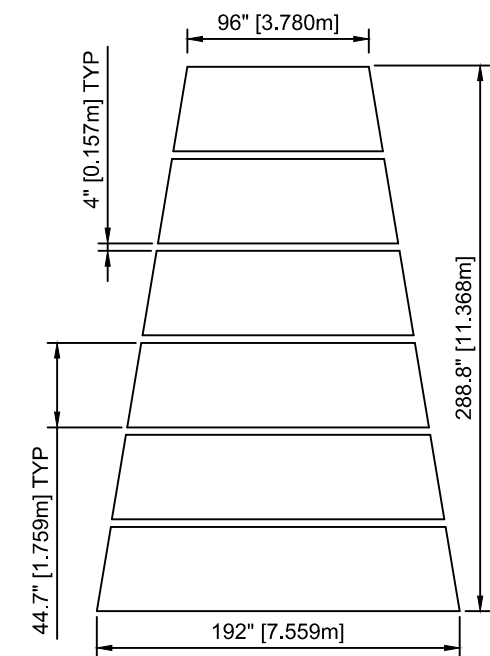


UPPER PLATFORM GRILLAGE DETAIL

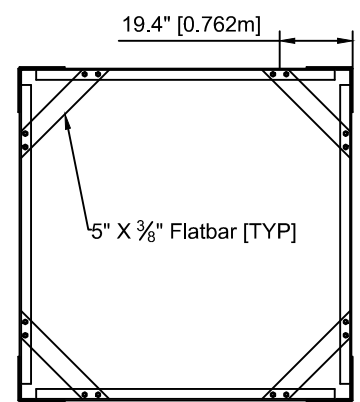


LADDER DETAILS [TYP]

GENERAL NOTES:
 - All connections are made using 3/4\"/>



ALTERNATE DAYMARK
 CCG intends to install this daymark on the existing tower (with the top of daymark aligning with the top of existing tower). The purpose of the structural analysis is to confirm the tower's capacity is adequate for the additional loading resultant from the daymark upgrade.



TYPICAL DIAPHRAGM DETAIL
 Note that the diaphragm bracing detailed herein is present at every horizontal

Vendor / Sous-traitant

0	DWG Initiated	BY	2012-12-17
rev	description	by	date
		par	
Asset - Actif			
LL #866			
Port McNicoll Front Tower			
Drawing - Dessin			
Port McNicoll Take-off Dimensions			
drawing no. - no. dessin			date
B. YOUNG			2012-12-17
designed - conception			date
checked - vérifié			date
D. JIBB			2012-12-17
approved - approuvé			date
B. YOUNG			2012-12-17
CCG project no. - no. projet GCC	scale - échelle		
EWA-8010-20-0343	NTS		
drawing no. - no. dessin	sheet-feuille	rev	
11146-PRI	01/01	0	



APPENDIX B2 – SUMMARY OF SUBMITTALS

Following Contract Award	
Submission Description	Section(s)
Deadline: 10 working days following award	
Detailed schedule:	011100
Deadline: 10 working days prior to mobilization	
Proof of registration with Ontario WSIB Construction Plan – Final Submission a) Bidder Qualification (Inc. proof of CWB certification) b) Complete listing of personnel c) Complete listing of subcontractors d) Final project specific safety plan e) Project environmental protection program f) Detailed demolition plan g) Concrete construction plan (include Concrete Mix Parameters) h) Tower erection plan i) Anti-climb shop drawings j) Excavation construction procedures	 011100 011100 011100 013530 013543 024116 033000 133613 133613 310000
Deadline: 21 calendar days following acceptance of the works	
Waste disposal receipts	024116
As-built drawings	133613



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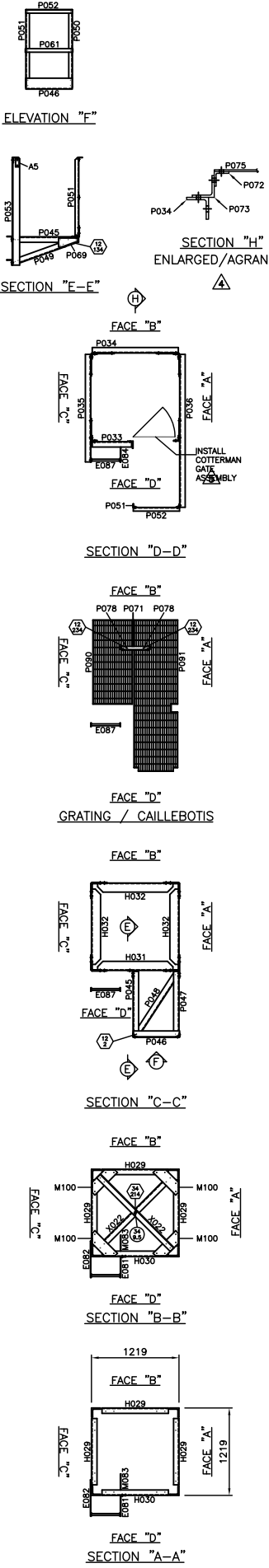
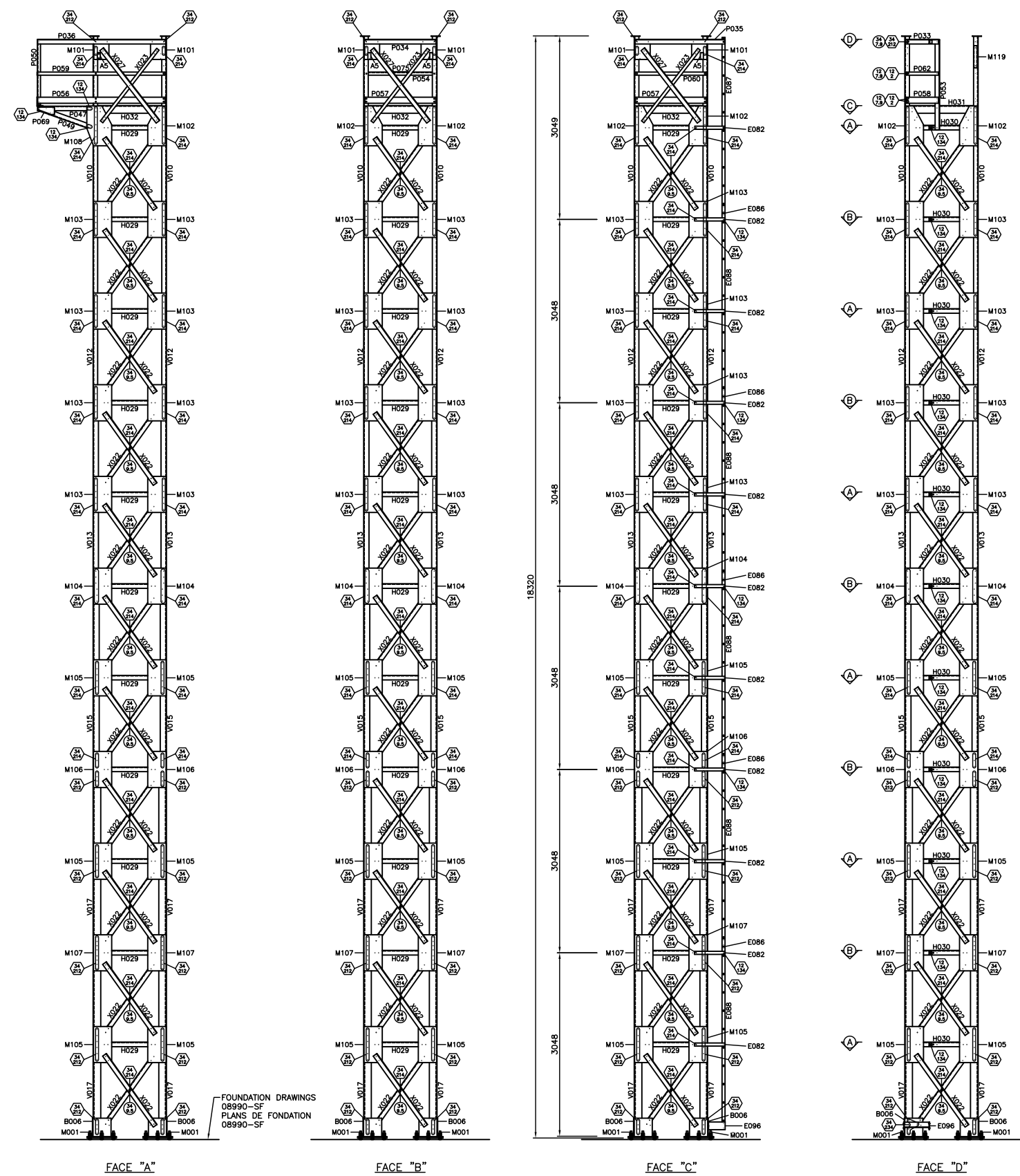
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APPENDIX B3 – DRAWINGS



BILL OF MATERIAL
LISTE DE MATÉRIEL

MRK MQE	QTY QTE	DESCRIPTION DESCRIPTION	WEIGHT MASSE
M001	18	ANCHORS/ANCRAGES 25#	105.6
B006	4	BASE ASS./ASS. BASE	215.2
V010	4	L-76x76x9.5x3038	139.2
V012	4	L-76x76x7.9x3038	134.4
V013	4	L-89x89x9.5x3038	158.4
V015	4	L-102x102x12.7x3038	240.0
V017	8	L-127x127x15.9x3038	749.6
X022	98	L-76x76x7.9x1450	1244.6
X023	3	FB-6.4x51x1525	12.0
X027	3	L-76x76x7.9x1525	40.2
H029	33	L-76x76x7.9x925	267.3
H030	11	L-76x76x7.9x925	89.1
H031	1	L-127x127x7.9x1049	16.6
H032	3	L-127x127x7.9x1049	49.8
P033	1	L-76x76x7.9x549	5.2
P034	1	L-76x76x7.9x1199	11.3
P035	1	L-76x76x7.9x1500	14.1
P036	1	L-76x76x7.9x2132	20.1
P045	1	L-76x76x7.9x909	8.6
P046	1	L-152x89x7.9x644	9.7
P047	1	L-76x76x7.9x909	8.6
P048	1	L-76x76x7.9x1033	9.7
P049	2	L-76x76x7.9x755	14.2
P050	1	L-51x51x6.4x1082	5.3
P051	1	L-51x51x6.4x1082	5.3
P052	1	L-51x51x6.4x844	3.2
P053	1	L-102x76x7.9x1499	16.6
P054	1	L-51x51x6.4x1179	5.8
P056	1	FB-6.4x102x2122	11.1
P057	2	FB-6.4x102x1179	12.4
P058	1	FB-6.4x102x539	2.8
P059	1	FB-6.4x51x2122	5.6
P060	1	FB-6.4x51x1179	3.1
P061	1	FB-6.4x51x644	1.7
P062	1	FB-6.4x51x539	1.4
P069	2	FB-9.5x127x270	4.2
E081	11	FB-6.4x51x259	9.9
E082	11	FB-6.4x51x508	14.3
M083	11	FB-6.4x51x377	11.0
E084	1	FB-6.4x51x315	0.8
E086	10	FB-6.4x51x259	7.0
E087	1	LADDER/ECHELLEx2915	31.7
E088	5	LADDER/ECHELLEx3035	161.5
P090	1	GRATING/CAIL. 548x1173	28.8
P091	1	GRATING/CAIL. 608x2110	57.5
E096	1	L-127x89x7.9x414	10.9
M100	20	FB-9.5x152x446	90.0
M101	6	FB-9.5x254x335	39.6
M102	7	FB-9.5x305x662	95.2
M103	32	FB-9.5x305x600	454.4
M104	8	FB-9.5x305x600	113.6
M105	24	FB-9.5x305x600	340.8
M106	8	FB-9.5x305x600	113.6
M107	8	FB-9.5x305x600	113.6
M108	1	PL-9.5x415x662	18.0
AS	5	D-RING "SALA" #2101630	2.5
	725	BOLTS/BOULONS 3/4" X 2"	197.3
	462	BOLTS/BOULONS 3/4" X 2 1/4"	133.6
	243	BOLTS/BOULONS 3/4" X 2 1/2"	73.8
	1432	BOLTS/BOULONS 3/4" X 3/4"	0.6
	2	LOCK W./R. DE BLOCAGE 3/4"	42.5
	51	R. FILLS/ESPACEURS 3/4" X 9.5	4.8
	2	R. FILLS/ESPACEURS 3/4" X 7.9	0.2
	154	BOLTS/BOULONS 1/2" X 1 1/2"	13.9
	37	BOLTS/BOULONS 1/2" X 1 3/4"	3.6
	5	BOLTS/BOULONS 1/2" X 2"	0.5
	3	BOLTS/BOULONS 1/2" X 2 3/4"	0.4
	199	LOCK W./R. DE BLOCAGE 1/2"	1.9
	4	R. FILLS/ESPACEURS 1/2" X 7.9	0.2
	20	CLIPS/ATTACHES TYPE "D-19"	0.5
	20	BOLTS/BOULONS 5/16" X 2 1/2"	0.5
TOTAL WEIGHT / MASSE TOTALE :			5991.0 kg

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Services techniques
Systèmes électroniques et informatiques
Informations techniques et graphiques
301, St-Jacques (passé 10)
Culb. (à droite) CHL 777

- NOTES**
- CAPACITÉ DE LA STRUCTURE AUX POINTS D'ANCRAGE = 18 kN
 - ANNEAUX DE SÉCURITÉ "D-RING"
 - CAPACITÉ MAXIMALE = 140 kg
 - HAUTEUR DE CHUTE LIBRE MAXIMALE = 1.8m.
 - JAMAIS PLUS D'UN SYSTÈME DE PROTECTION PERSONNEL À LA FOIS
 - NUANCE D'ACIER:
TOUS LES ÉLÉMENTS 300 Mpa SAUF LES ÉLÉMENTS SUIVANTS:
LES CORNÈRES: 350 Mpa
LES PROFILÉS W: 350 Mpa
 - TOUS LES BOULONS SELON ASTM A-325, TYPE 1.
 - TOUTES LES RONDELLES DE BLOCAGE SELON ASME B18.21.1
 - TOUTES LES ESPACEURS ANNULAIRES SELON ANSI B18.22.1
 - LONGUEUR DES BOULONS:
2" LG POUR BOULON 3/4", S.I.C.
1 1/2" LG POUR BOULON 1/2", S.I.C.
 - TOUTES LES QUANTITÉS DE BOULON INCLUENT UN SURPLUS DE 5 %
 - CAPACITY OF THE STRUCTURE AT ANCHOR POINTS = 18 kN
 - SECURITY RINGS "D-RING"
 - MAXIMUM CAPACITY = 140 kg
 - MAXIMUM FALLING HEIGHT = 1.8m.
 - NEVER MORE THAN ONE PERSONAL SECURITY SYSTEM AT THE SAME TIME
 - STEEL GRADE:
ALL MEMBERS 300 Mpa EXCEPT FOR:
ANGLES: 350 Mpa
W SHAPE: 350 Mpa
 - ALL BOLTS ACCORDING TO ASTM A-325, TYPE 1.
 - ALL LOCK WASHERS ACCORDING TO ASME B18.21.1
 - ALL RING FILLS ACCORDING TO ANSI B18.22.1
 - BOLT LENGTH:
2" LG FOR 3/4" BOLT, U.N.
1 1/2" LG FOR 1/2" BOLT, U.N.
 - ALL BOLT QUANTITIES INCLUDE 5% EXTRA.
- | 9 | PARTS REMOVED/PIÈCES ENLEVÉES | DJ | 2014.02.12 |
|---|------------------------------------|------|------------|
| Δ | MISE A JOUR | SLU | 2014.02.12 |
| 7 | PIÈCES AJOUTÉES / ADDED MATERIAL | GCC | 2010.11.30 |
| 6 | NOTES CHANGED / NOTES CHANGÉES | M.V. | 2006.03.23 |
| 5 | M122 ADDED/M122 AJOUTÉE | M.V. | 2006.03.13 |
| 4 | SECTION H ADDED/SECTION H AJOUTÉE | M.V. | 2006.02.08 |
| 3 | ENLARGED VIEW AD./VUE AGRANDIE AJ. | M.V. | 2006.02.05 |
| 2 | SELON COMMENTAIRES DE LA GCC | M.V. | 2006.01.23 |
| 1 | SELON APPROBATION | M.V. | 2006.01.19 |

Legend:
A: Nombre de détail
B: Point sur lequel le détail est relevé
C: Point sur lequel le détail est dessiné
A B C

Notes mentionnées dans les rapports de
la construction sont à reporter à :

GARDE CÔTIÈRE, RÉGION LAURENTIENNE
SERVICES TECHNIQUES
Systèmes électroniques et Informatiques
Informations Techniques
et Graphiques

TOUR D'ACIER À CLAIRE-VOIE
TOUR DE 3,05m (10pi) @ 24,42m (80pi)

TOUR DE 18,32m (60pi)
PLAN DE MONTAGE

Design par:	P.-C.GAGNON, Ing.	Date:	2003/05/30
Dessiné par:	MICHEL VACHON	Date:	2006/01/04
Vérifié par:	MICHEL VACHON	Date:	2006/01/06
Approuvé par:		Date:	
Échelle:			
Échelle:	1 = 40		
Échelle:			

EXCAVATION:

1. COMPLETE EXCAVATION SAFELY. SLOPE SIDES AS REQUIRED.
2. PREVENT EXCAVATION FROM FREEZING.
3. STOCKPILE EXCAVATED MATERIALS FOR BACKFILL PLACEMENT. TAKE ALL REASONABLE MEASURES TO PREVENT EXCAVATED MATERIALS FROM FREEZING.
4. BE PREPARED TO DEWATER EXCAVATION IN A WAY THAT WILL PROTECT SUBGRADE. CONTROL THE RELEASE OF SUSPENDED SOLIDS WHEN DEWATERING.

REINFORCEMENT:

1. ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA G30.18, Fy 400
2. MINIMUM COVER 76.2mm [3"], TYP, ALL SIDES, TOP AND BOTTOM.
3. PLACEMENT OF REINFORCEMENT TO BE CONFIRMED BY COAST GUARD PRIOR TO CONCRETE PLACEMENT.

REINFORCEMENT SCHEDULE				
ID	SKETCH	QTY	SIZE	A (mm)
A		76	20M	5032

CONCRETE					
CLASS OF EXPOSURE	28 DAYS COMPRESSIVE STRENGTH (MPa)	SLUMP (mm.)	AIR CONTENT	AGGREGATES (MAX.) (mm)	PORTLAND CEMENT
F-1	35 MPa	80±20	5 TO 8%	20	TYPE 30(HE)

- CASTING : CAN/CSA - A23.1-94
- CURING : CAN/CSA - A23.1-94

CONCRETE:

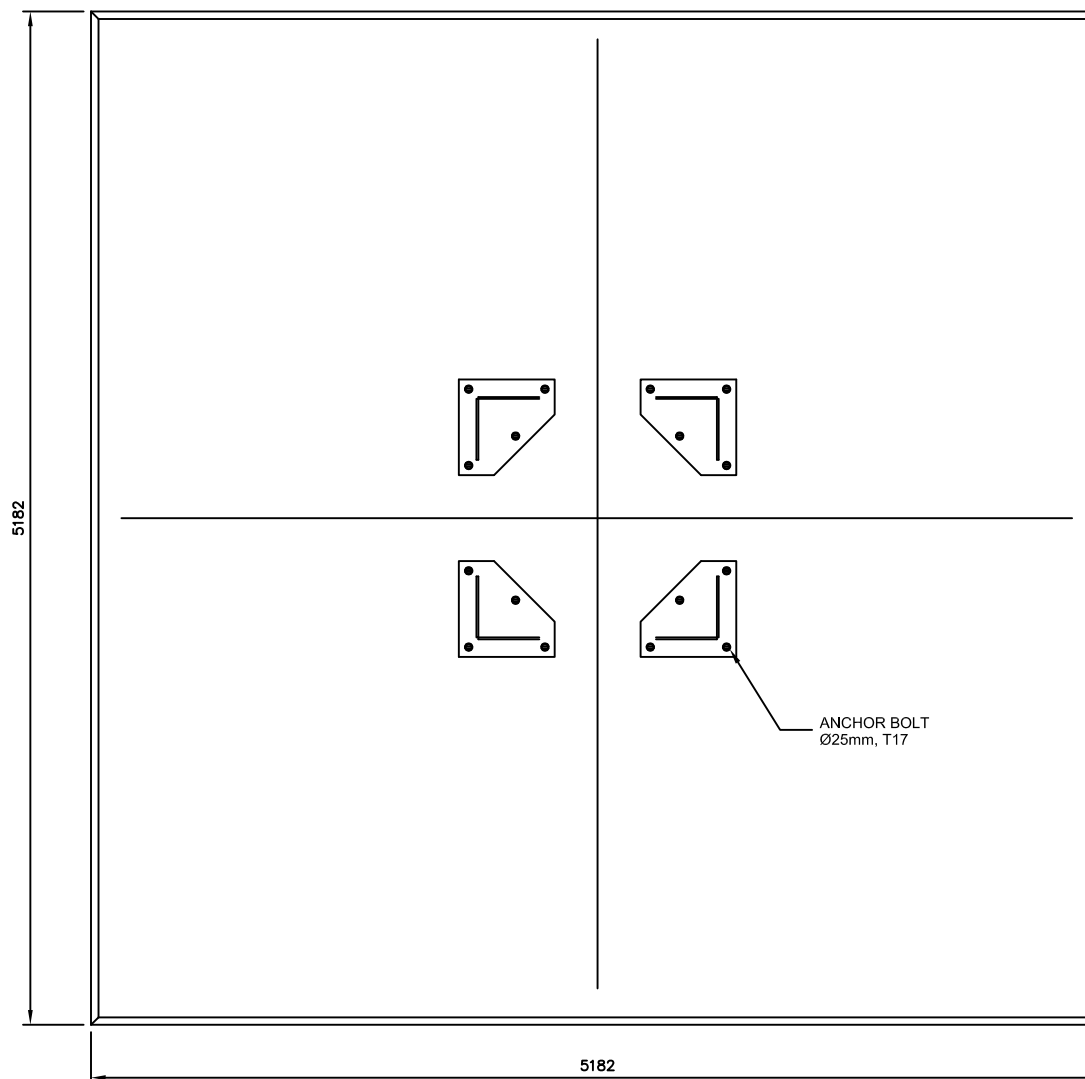
1. CONTRACTOR SHALL SUBMIT SUMMARY OF CONCRETE PROPERTIES WITH CONSTRUCTION PLAN.
 - 1.1. SUPPLEMENTAL ADMIXTURES IMPACTING PLASTIC AND HARDENED PERFORMANCE SHALL BE SUBJECT TO APPROVAL OF COAST GUARD.
2. FORMWORK AND FALSEWORK SHALL BE AS DETAILED IN APPROVED CONSTRUCTION PLAN.
3. PLACEMENT MUST BE WITNESSED BY COAST GUARD.
 - 3.1. CONCRETE MUST NOT BE PLACED ON FROZEN SUBGRADE.
 - 3.2. CONTRACTOR TO ASSIST WITH COLLECTION OF SAMPLES FOR CONFIRMATION OF CONCRETE QUALITY.
4. CURING SHALL BE COMPLETED IN ACCORDANCE WITH APPROVED CONSTRUCTION PLAN AND SHALL ACCOUNT FOR EITHER HOT AND COLD WEATHER.
5. FINISH CONCRETE WITH A 1-2% SLOPE, SLOPING AWAY FROM THE CENTER. NO WATER SHALL POND ON THE SLAB.
6. TOWER SHALL NOT BE ERECTED UNTIL CONCRETE TESTING INDICATES ADEQUATE STRENGTH DEVELOPMENT.

BACKFILL:

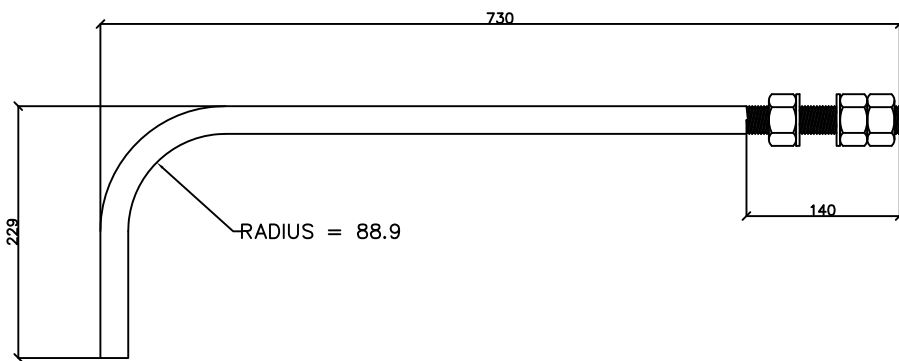
1. BACKFILL WITH SELECT EXCAVATED MATERIALS OR APPROVED IMPORTED GRANULAR.
 - 1.1. SLOPE FILL AT THE SURFACE TO PROVIDE POSITIVE DRAINAGE AWAY FROM TOWER FOUNDATION.
 - 1.2. COMPACT NATIVE BACKFILL TO 95% SPMD. COMPACT GRANULAR BACKFILL TO 100% SPMD.
 - 1.3. BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 6"(150) IN HEIGHT.

FOUNDATION:

1. ANCHOR RODS - AISI 4140 HT 1" ROD BENT SUCH THAT VERTICAL DIMENSION IS 730mm INCLUDING 140mm THREADS, HORIZONTAL DIMENSION IS 229mm. BEND RADIUS SHALL BE APPROX. 89mm.
2. BOLTS - GALVANIZED A325. DOUBLE NUT, WASHERS - ASTM F436
3. UPON COMPLETION OF INSTALLATION, CUT ANY EXCESS THREADS EXTENDING 25mm BEYOND TOP NUT, AND COLD-GALV SPRAY 2 COATS ON EXPOSED END OF ROD.
4. GROUT - SIKA M-BED OR APPROVED ALTERNATE.

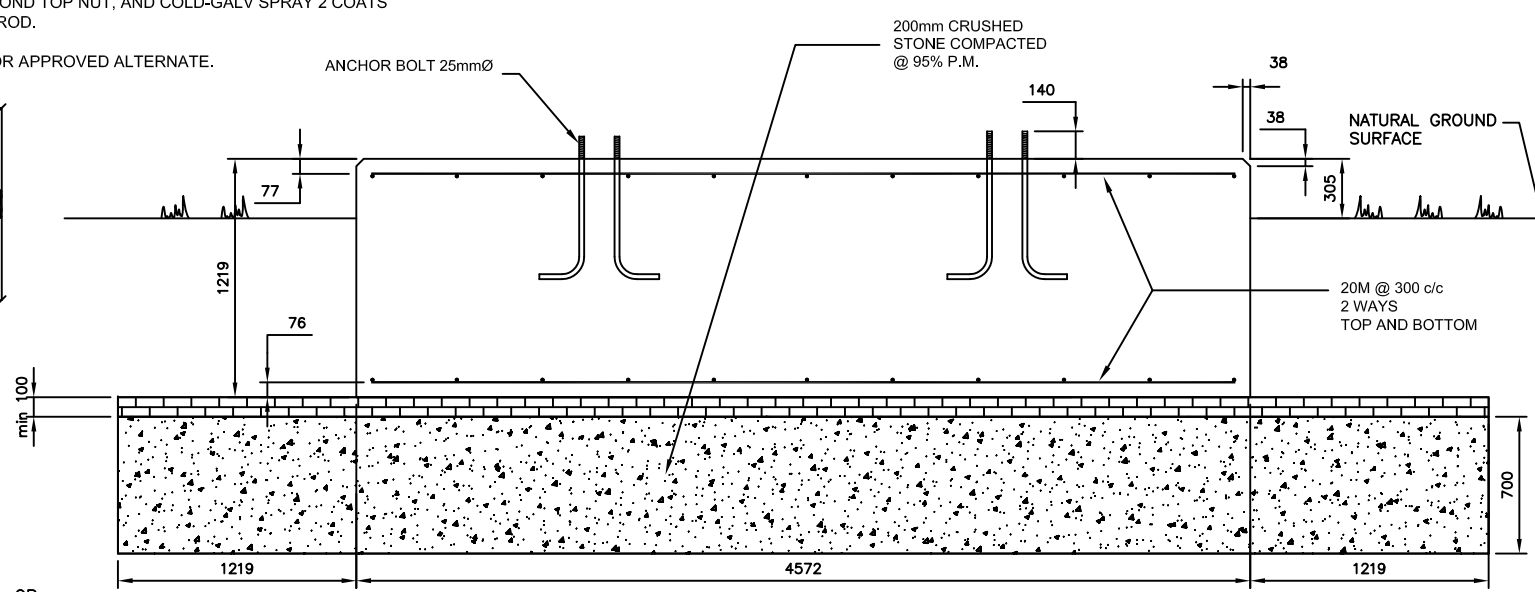


PLAN VIEW



ANCHOR

NOTE:
 -ASSUMED BEARING CAPACITY OF SOIL = 100 kPa
 -TOP SOIL SHALL BE REMOVED.
 -20-0mm GRANULAR FOUNDATION MAY BE REPLACED BY AN EQUIVALENT DRAINING MATERIAL OR BY UNDISTURBED SOIL FOLLOWING GEOTECHNICAL LABORATORY RECOMMENDATIONS.



PROFILE VIEW

Vendor / Sous-traitant

rev	description	by	date
4	REVISED 18.3m TOWER	BY	2014-12-08
3	REVISED SAILOR'S ENCAMPMENT	DM	2014-12-01
2	REVISED FOR MISSISSAGI	LG	2014-06-12
1	REVISED FOR PROCTOR	BY	2014-03-19
0	DEVELOPPED FOR STANLEY	GI	2013-09-19

Asset - Actif
**LL 866
 PORT McNICOLL FR**

Drawing - Dessin
**CAST IN PLACE
 REINFORCED CONCRETE
 FOUNDATION**

drawing no. - no. dessin	date
SLI/ILS	2014-12-01
designed - conception	date
P.-C. Gagnon	2003-05-30
checked - vérifié	date
B. YOUNG	2014-12-02
approved - approuvé	date
B. YOUNG	2014-12-02

CCG project no. - no. projet GCC	scale - échelle	
8010-20-0359	NTS	
drawing no. - no. dessin	sheet-feuille	rev
FOUNDATION 1	01/01	3

C

B

A

FOUNDATION 1

FOUNDATION 1

FOUNDATION.DWG - December-09-14 8:58:10 AM

ANSI B

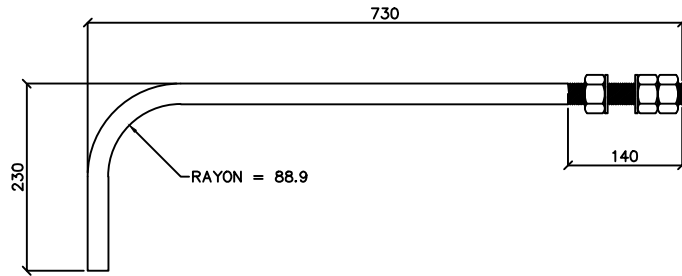
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M001	0	2005/11/29	P052	1	2006/03/22	M103	0	2005/12/16
B002	1	2006/01/13	P053	2	2006/03/22	M104	0	2005/12/16
B003	2	2006/02/09	P054	1	2006/03/22	M105	0	2005/12/16
B004	2	2006/02/09	P055	1	2006/03/22	M106	0	2005/12/16
B005	2	2006/02/09	P056	0	2005/12/08	M107	0	2005/12/16
B006	2	2006/02/09	P057	0	2005/12/08	M108	0	2005/12/16
B007	2	2006/02/09	P058	0	2005/12/08	M109	0	2005/12/16
B008	2	2006/02/09	P059	0	2005/12/08	M110	0	2005/12/16
B009	2	2006/02/09	P060	0	2005/12/08	M111	0	2005/12/17
V010	0	2005/12/01	P061	0	2005/12/08	M112	0	2005/12/17
V011	0	2005/12/05	P062	0	2005/12/08	M113	0	2005/12/17
V012	0	2005/12/05	P063	0	2005/12/08	M114	0	2005/12/17
V013	0	2005/12/05	P064	0	2005/12/08	M115	0	2005/12/17
V014	0	2005/12/05	P065	0	2005/12/08	M116	0	2005/12/17
V015	0	2005/12/05	P066	0	2005/12/08	M117	0	2005/12/17
V016	0	2005/12/05	P067	0	2005/12/08	M118	0	2005/12/17
V017	0	2005/12/05	P068	0	2005/12/08	M119	1	2011/01/06
V018	0	2005/12/05	P069	0	2005/12/08	M120	3	2006/03/22
V019	0	2005/12/05	P070	1	2006/03/22	M121	0	2005/12/17
V020	0	2005/12/05	P071	1	2006/03/22	M122	0	2006/01/11
V021	0	2005/12/05	P072	1	2006/03/22	E123	0	2010/09/14
X022	1	2006/03/22	P073	1	2006/03/22	E124	0	2010/09/14
X023	0	2005/12/05	P074	0	2005/12/13	E125	0	2010/09/14
X024	1	2006/03/22	P075	0	2005/12/13			
X025	1	2006/03/22	P076	0	2005/12/14			
X026	0	2005/12/05	P077	1	2006/01/19			
X027	1	2006/03/22	P078	0	2005/12/14			
X028	1	2006/03/22	R079	0	2005/12/14			
H029	1	2006/03/22	R080	0	2005/12/14			
H030	1	2006/03/22	E081	1	2006/01/19			
H031	1	2006/03/22	E082	1	2006/01/19			
H032	1	2006/03/22	M083	0	2005/12/14			
P033	2	2006/03/22	E084	1	2006/01/19			
P034	2	2006/03/22	E085	1	2006/01/19			
P035	2	2006/03/22	E086	1	2006/01/19			
P036	2	2006/03/22	E087	0	2005/12/15			
H037	1	2006/03/22	E088	0	2005/12/15			
H038	1	2006/03/22	E089	0	2005/12/15			
H039	1	2006/03/22	P090	0	2005/12/15			
H040	1	2006/03/22	P091	0	2005/12/15			
P041	2	2006/03/22	P092	0	2005/12/15			
P042	2	2006/03/22	P093	0	2005/12/15			
P043	2	2006/03/22	E094	2	2006/03/22			
P044	2	2006/03/22	E095	2	2006/03/22			
P045	1	2006/03/22	E096	2	2006/03/22			
P046	1	2006/03/22	E097	2	2006/03/22			
P047	1	2006/03/22	E098	2	2006/03/22			
P048	1	2006/03/22	E099	2	2006/03/22			
P049	1	2006/03/22	M100	0	2005/12/16			
P050	1	2006/03/22	M101	0	2005/12/16			
P051	1	2006/03/22	M102	0	2005/12/16			

No	REVISION	DATE
4	M119 REVISÉ E123,E124,E125 AJOUTÉ	2011/01/06
3	⊗ P073, E094 ⊗ E099 & M120 REV.	2006/03/22
2	X022,X024,X025,X027 ⊗ P055,P070	2006/02/09
1	B003 ⊗ B009 REVISED/REVISÉS	2006/01/25

	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard

 DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TELEPHONE: (418) 638-2300 TELECOPIER: (418) 638-7958		
STEEL TOWERS / TOURS D'ACIER		
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 1	DATE: DATE:
	FILE: DOSSIER:	2006/01/23
	08990-SA	DRAWING: DESSIN:
		00A / 4

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	8	8	8	8	8	16	16	16	24	24	24	24	32	32	32
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

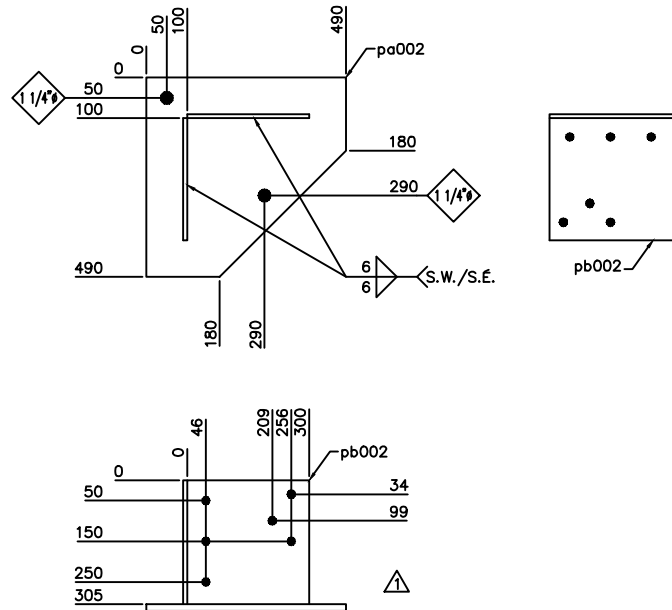


WEIGHT / MASSE: 4.4 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
-	M001	● 25.4 ∅ X	890	A-325	BEND / PLIÉE	3.7							
					C/W / C/A								
					3 NUTS / ÉCROUS	0.6							
					2 WASH. / ROND.	0.1							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	ASTM	HOLE: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		FINISH: FINI:
		2005/11/29
		GALV.
		M001

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

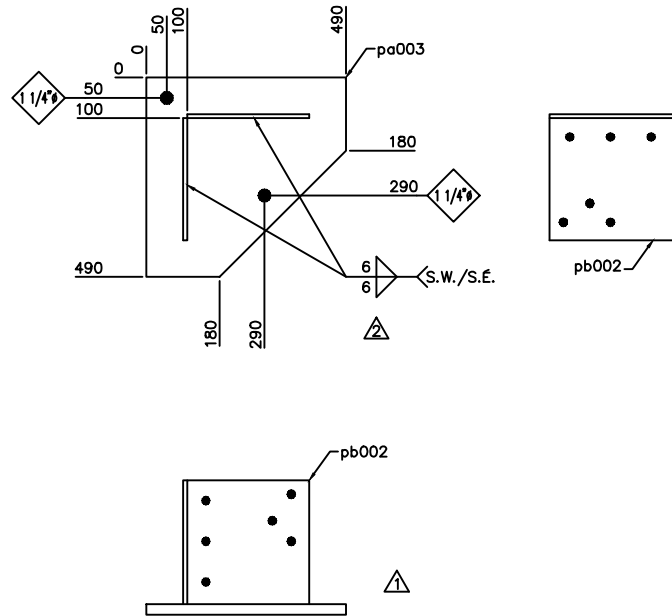


WEIGHT / MASSE: 39.0 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	pa002	PL 15.9 X 490	490	300W	ASS. #B002	24.8							
2	pb002	FB 9.53 X 305	300	300W		14.2							

1	SOUDEURE VERTICALE ENLEVÉE	2006/01/13			
No	REVISION	DATE			
Pêches et Océans / Fisheries and Oceans Canada / Canada Garde côtière / Coast Guard					
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.S. FINISH:	GALV.
MATERIEL:		TROUS:		S.N.:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/11/30
DESSINÉ:		VÉRIFIÉ:		DATE:	
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	B002
ÉCHELLE:		DOSSIER:		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

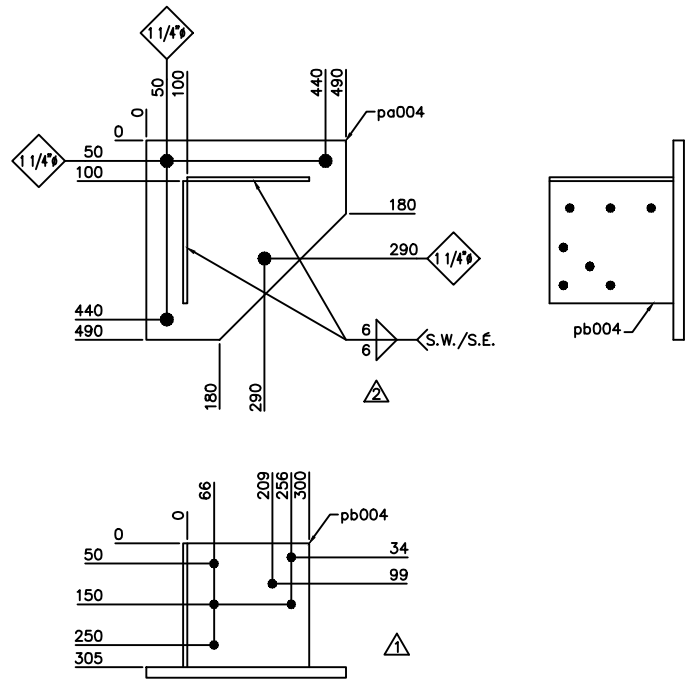


WEIGHT / MASSE: 53.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	pa003	PL 25.4 X	490	300W	ASS. #B003	39.6							
2	pb002	FB 9.53 X	305	300W		14.2							

2	SOUDEURE REVISÉE	2006/02/09				
1	SOUDEURE VERTICALE ENLEVÉE	2006/01/13				
No	REVISION	DATE				
Pêches et Océans / Fisheries and Oceans Canada / Canada Garde côtière / Coast Guard						
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER						
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.I.:	FINISH:	GALV.
MATÉRIEL:		TROUS:		S.N.:	FINI:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/11/30	
DESSINÉ:		VÉRIFIÉ:		DATE:		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	B003/2	
ÉCHELLE:		DOSSIER:		DESSIN:		

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

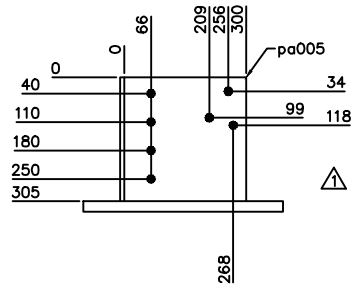
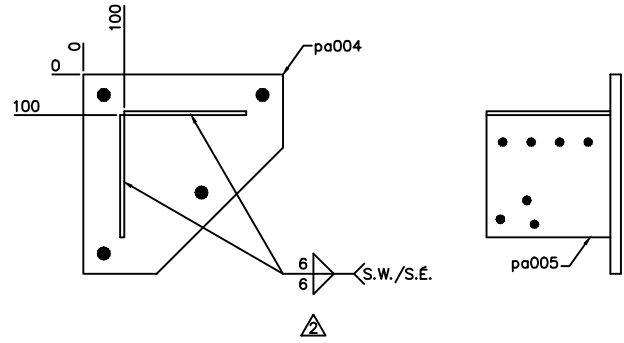


WEIGHT / MASSE: 53.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	pa004	PL 25.4 X 490	490	300W	ASS. #B004	39.6							
2	pb004	FB 9.53 X 305	300	300W		14.2							

2	SOUDEURE REVISÉE	2006/02/09					
1	SOUDEURE VERTICALE ENLEVÉE	2006/01/13					
No	REVISION	DATE					
Pêches et Océans / Fisheries and Oceans Canada / Canada Garde côtière / Coast Guard							
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988							
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
DESIGNER:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/11/30		
SCALE:	1 = 10	FILE:	DOSSIER:	08990-SA	DRAWING:	DESSIN:	B004 / 2

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

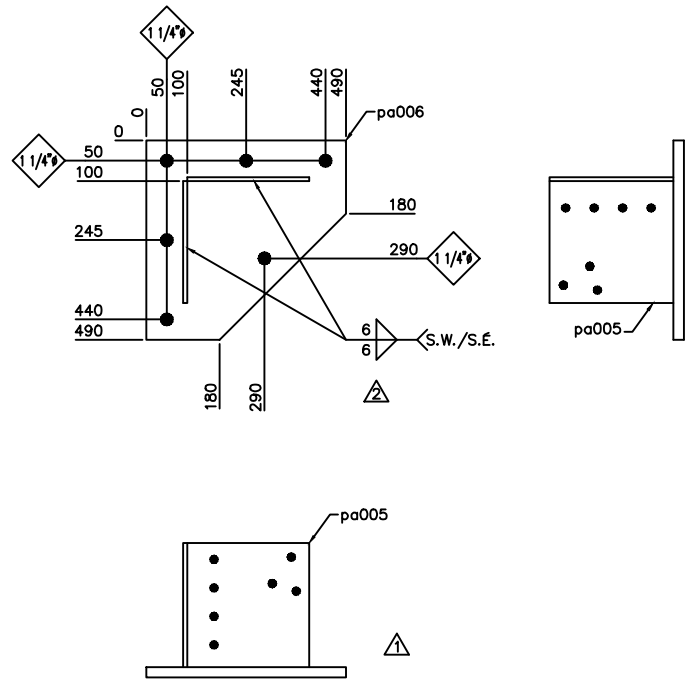


WEIGHT / MASSE: 53.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	pa004	PL 25.4 X 490	490	300W	ASS. #B005	39.6							
2	pa005	FB 9.53 X 305	300	300W		14.2							

2	SOUUDRE REVISÉE	2006/02/09			
1	SOUUDRE VERTICALE ENLEVÉE	2006/01/13			
No	REVISION	DATE			
Pêches et Océans / Fisheries and Oceans Canada / Canada Garde côtière / Coast Guard					
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.S. FINISH:	GALV.
MATÉRIEL:		TROUS:		S.N. FINI:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/11/30
DESSINÉ:		VÉRIFIÉ:		DATE:	
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	B005/2
ÉCHELLE:		DOSSIER:		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	4	4	4	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

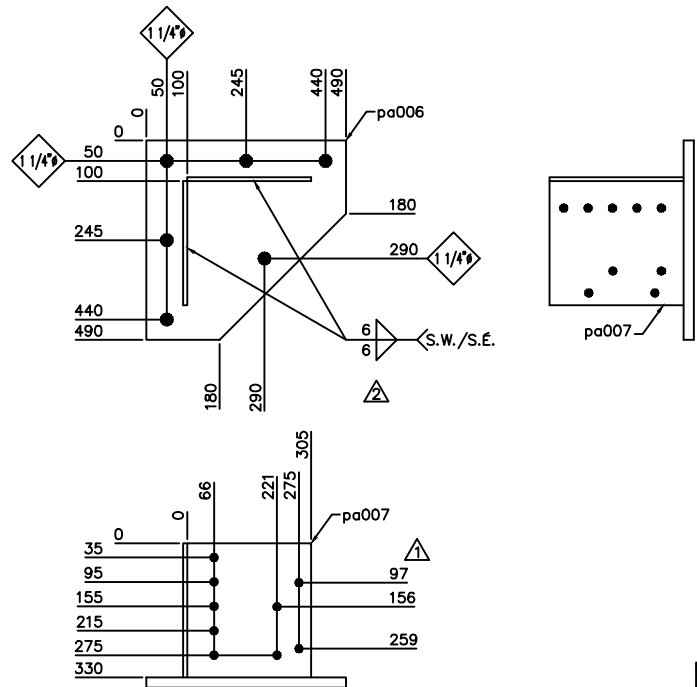


WEIGHT / MASSE: 53.8 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	pa006	PL 25.4 X 490	490	300W	ASS. #B006	39.6							
2	pa005	FB 9.53 X 305	300	300W		14.2							

2	SOUDEURE REVISÉE	2006/02/09
1	SOUDEURE VERTICALE ENLEVÉE	2006/01/13
No	REVISION	DATE
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	Holes: TROUS:
13/16" ø	U.A. S.N.	FINISH: FINI:
GALV.		
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
M.VACHON		DATE: DATE:
2005/11/30		
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
08990-SA		DRAWING: DESSIN:
B006		

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

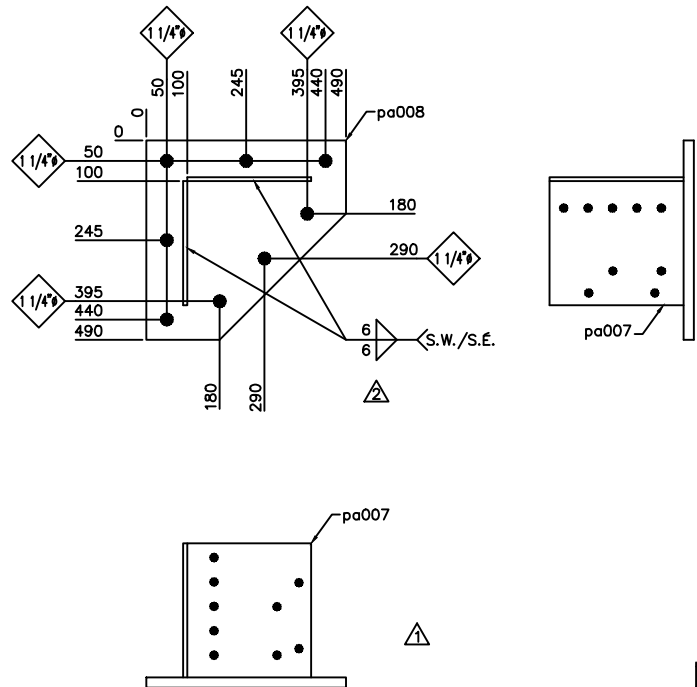


WEIGHT / MASSE: 55.2 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	pa006	PL 25.4 X	490	300W	ASS. #B007	39.6							
2	pa007	FB 9.53 X	305	300W		15.6							

2	SOUDEURE REVISÉE	2006/02/09				
1	SOUDEURE VERTICALE ENLEVÉE	2006/01/13				
No	REVISION	DATE				
Pêches et Océans / Fisheries and Oceans Canada Garde côtière / Coast Guard						
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.S. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE:	2005/11/30	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	B007	6

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

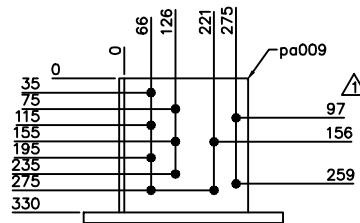
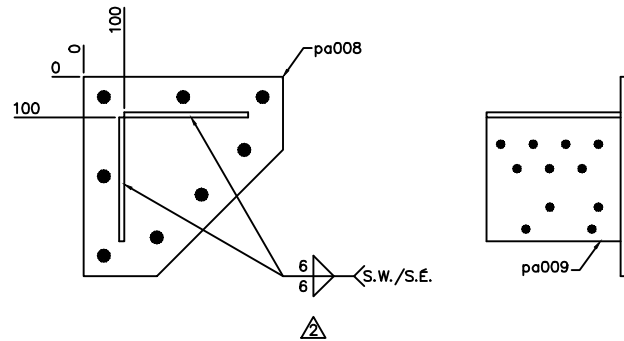


WEIGHT / MASSE: 55.2 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	pa008	PL 25.4 X 490	490	300W	ASS. #B008	39.6							
2	pa007	FB 9.53 X 305	330	300W		15.6							

2	SOUDEURE REVISÉE	2006/02/09				
1	SOUDEURE VERTICALE ENLEVÉE	2006/01/13				
No	REVISION	DATE				
Pêches et Océans / Fisheries and Oceans Canada / Canada Garde côtière / Coast Guard						
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.S. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE:	2005/11/30	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	B008 / 2	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

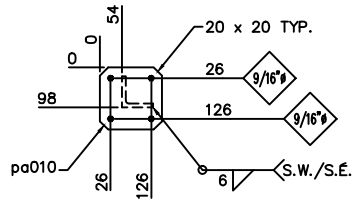
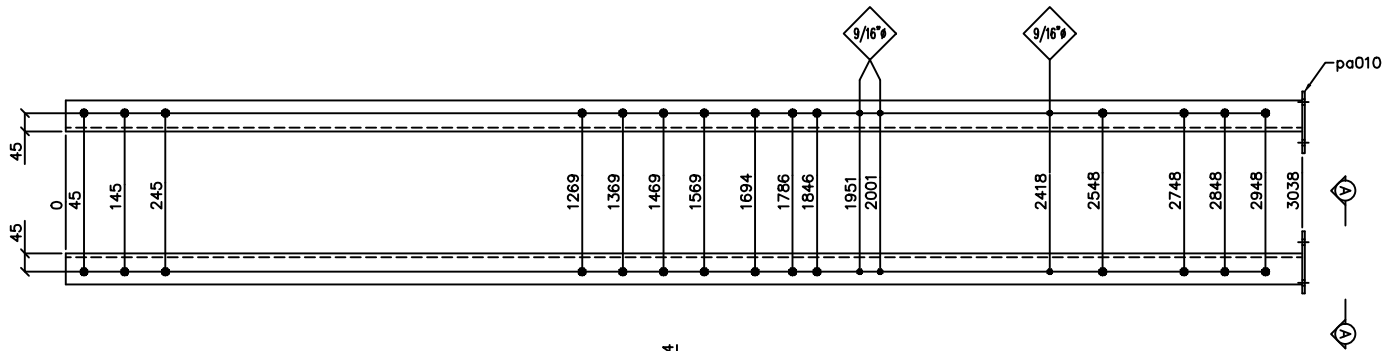


WEIGHT / MASSE: 60.4 Kg

QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	pa008	PL 25.4 X 490	490	300W	ASS. #B009	39.6							
2	pa009	FB 12.7 X 305	330	300W		20.8							

2	SOUDEURE REVISÉE	2006/02/09
1	SOUDEURE VERTICALE ENLEVÉE	2006/01/13
No	REVISION	DATE
Pêches et Océans Canada		Fisheries and Oceans Canada
Garde côtière		Coast Guard
DESSIN MICHE VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7666		
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	Holes: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		FINISH: FINI:
		2005/11/30
		B009

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



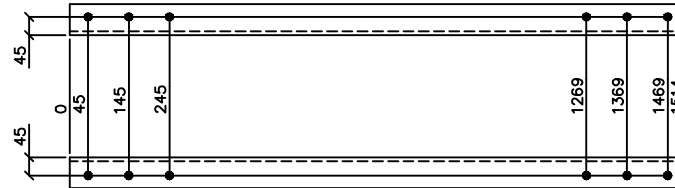
VIEW A-A / VUE A-A

WEIGHT / MASSE: 34.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	O10	L 76 76	9.53	3038	350W	33.6							
1	pa010	FB 6.35 X 152	152	300W	ASS. #V010	1.2							



No	REVISION	DATE			
Pêches et Océans Canada		Fisheries and Oceans Canada			
Garde côtière		Coast Guard			
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-4386 TÉLÉCOPIEUR: (418) 638-7888					
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLES:	13/16" Ø	U.N. FINISH:	GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/01
SCALE:	1 = 10	FILES:	08990-SA	DRAWING:	V010
ÉCHELLE:		DOSSIER:		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

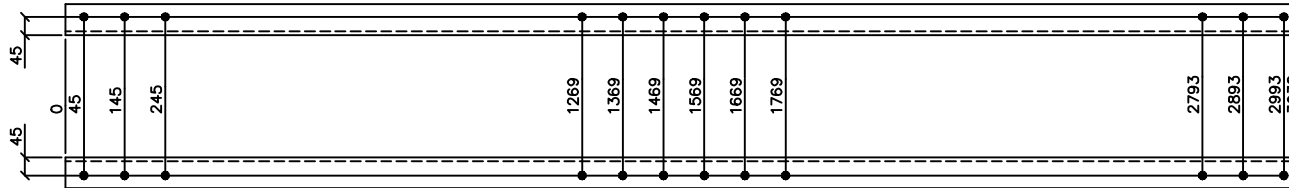


WEIGHT / MASSE: 16.8 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE
1	V011	L	76	76	9.53	1514	350W	16.8									

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		2005/12/05
	FILE: DOSSIER:	DRAWING: DESSIN:
	08990-SA	V011/01

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	4	4	8	4	4	4	4	4	4	8	8	8	8
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

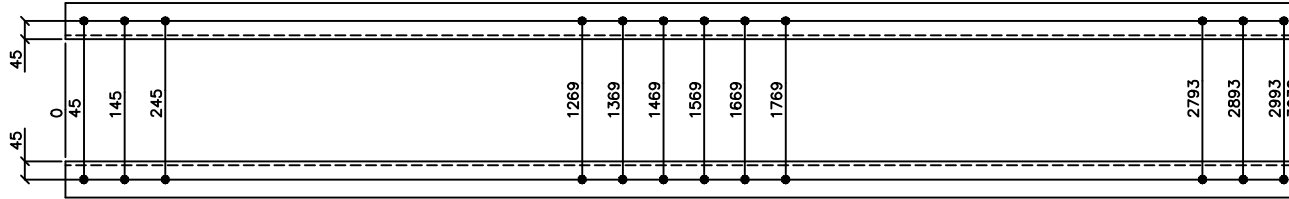


WEIGHT / MASSE: 33.6 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	V012	L 76 76	9.53	3038	350W	33.6							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
13/16" ø	U.S. FINISH: P.NE:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
M. VACHON	M. VACHON	DATE: DATE:
2005/12/05		
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
08990-SA	DRAWING: DESSIN:	V012 / 05

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	4	4	4	4	4	4	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

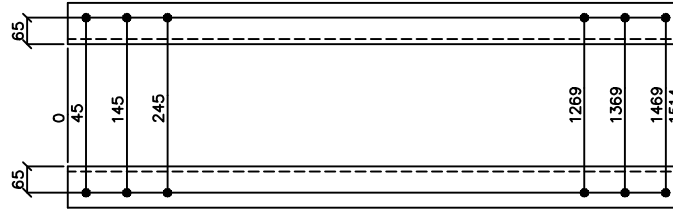


WEIGHT / MASSE: 39.6 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	V013	L 89 89	9.53	3038	350W	39.6							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLES: TROUS:
13/16" ø	U.S. S.N.	FINISH: FINI:
DATE: 2005/12/05		
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
M. VACHON		M. VACHON
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
08990-SA		DRAWING: DESSIN:
		V013 / 0

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

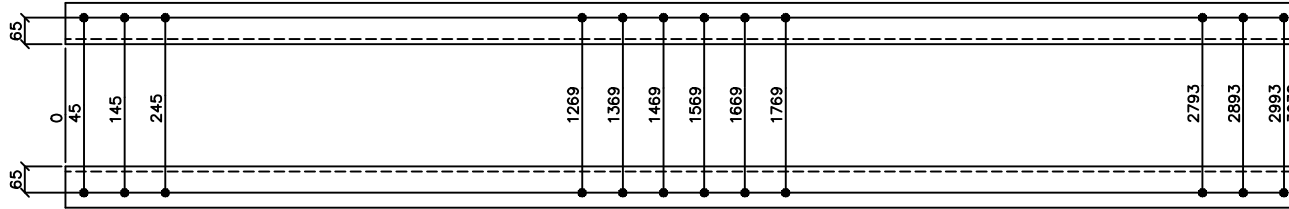


WEIGHT / MASSE: 29.9 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE
1	V014	L	102	102	12.7	1514	350W	29.9									

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.N.:	S.N.	FINISH:	
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/05		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	V014 / 0		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	4	4	4	4	4	8	8	4	4
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

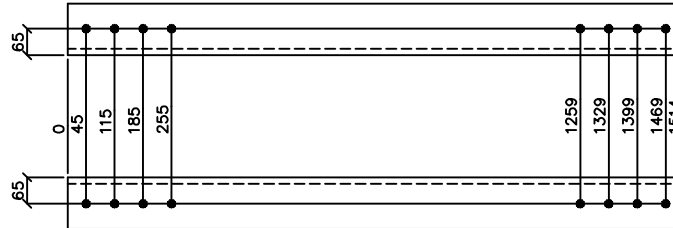


WEIGHT / MASSE: 60.0 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	V015	L 102 102	12.7	3038	350W	60.0							

-	-	-	
No	REVISION	DATE	
	Pêches et Océans Canada	Fisheries and Oceans Canada	
	Garde côtière	Coast Guard	
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888		
STEEL TOWERS / TOURS D'ACIER			
MATERIAL:	G40.21M	HOLE:	
MATERIEL:		TROUS:	
U.S. FINISH:		S.I. FINISH:	
			GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON
DESSINÉ:		VÉRIFIÉ:	
DATE:	2005/12/05	DATE:	
SCALE:	1 = 10	FILE:	08990-SA
ÉCHELLE:		DOSSIER:	
		DRAWING:	V015
		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

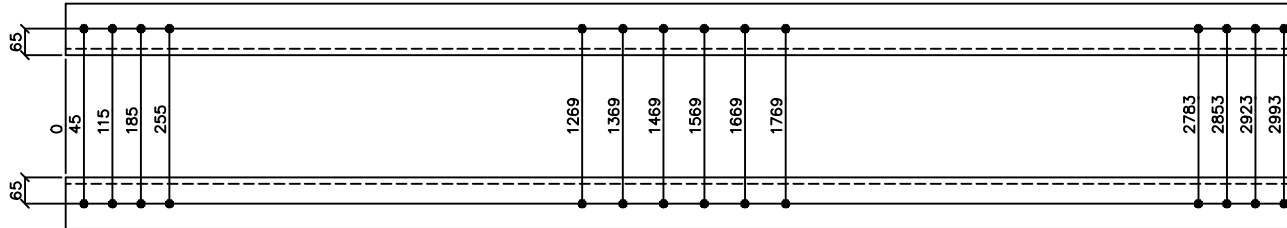


WEIGHT / MASSE: 46.7 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	V016	L 127 127 15.9 1514	350W			46.7							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-8386 TÉLÉCOPIER: (418) 638-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
	FILE: DOSSIER:	DATE: DATE:
	08990-SA	2005/12/05
		V016

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	4	4	8	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

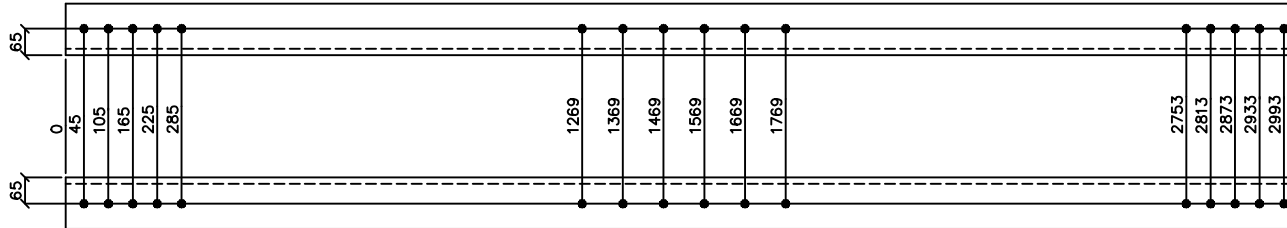


WEIGHT / MASSE: 93.7 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	V017	L 127 127	15.9	3038	350W	93.7							

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRWNE:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/05		
DESSINE:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	V017		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	4	8	8	8
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

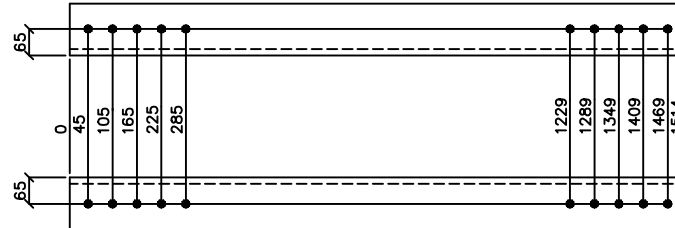


WEIGHT / MASSE: 93.7 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	V018	L 127 127 15.9 3038	350W			93.7							

-	-	-	
No	REVISION	DATE	
	Pêches et Océans Canada	Fisheries and Oceans Canada	
	Garde côtière	Coast Guard	
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888			
STEEL TOWERS / TOURS D'ACIER			
MATERIAL:	G40.21M	HOLE:	
MATÉRIEL:		TROUS:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON
DESSINÉ:		VÉRIFIÉ:	
SCALE:	1 = 10	FILE:	08990-SA
ÉCHELLE:		DOSSIER:	
		DATE:	2005/12/05
		FINISH:	GALV.
		DRAWING:	V018
		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

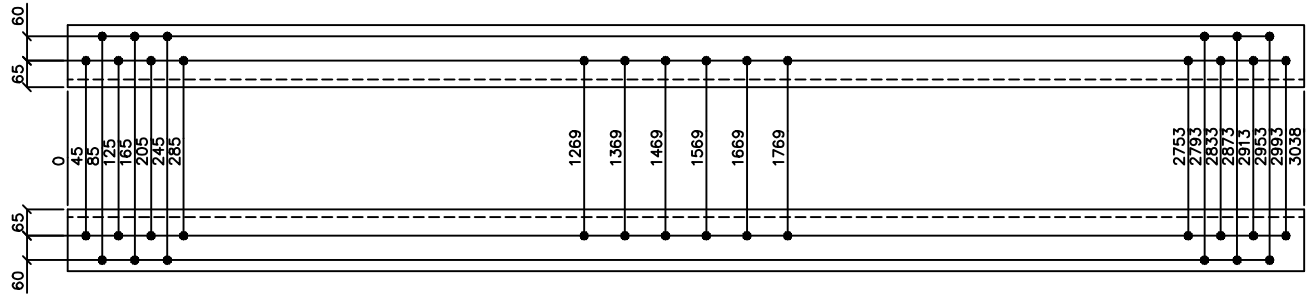


WEIGHT / MASSE: 46.7 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	V019	L 127 127	15.9	1514	350W	46.7							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-4386 TÉLÉCOPIER: (418) 638-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M. VACHON	U.S. FINISH: P.N.C.:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
	FILE: DOSSIER:	2005/12/05
	08990-SA	DRAWING: DESSIN:
		V019 /

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

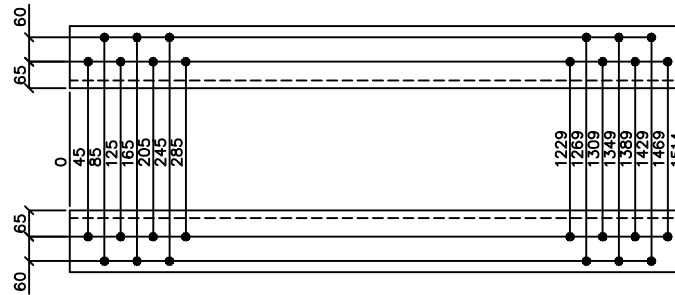


WEIGHT / MASSE: 134.3 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	V020	L 152 152 19	3038	350W		134.3							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
	FILE: DOSSIER:	FINISH: FINI:
	08990-SA	GALV.
		2005/12/05
		DRAWING: DESSIN:
		V020 /

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

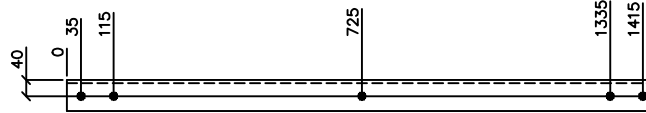


WEIGHT / MASSE: 66.9 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	V021	L 152 152 19	1514	350W		66.9							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:
		2005/12/05
		08990-SA
		V021

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	8	18	26	36	44	54	62	72	80	90	98	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

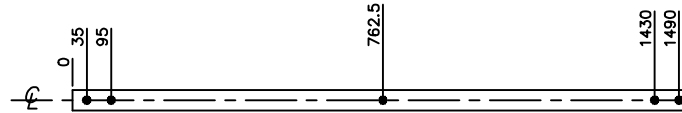


WEIGHT / MASSE: 12.7 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE
1	X022	L	76	76	7.94	1450	350W	12.7									

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

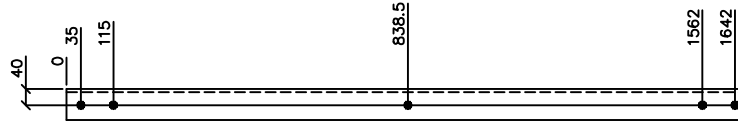


WEIGHT / MASSE: 4.0 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	X023	FL 6.35 X 51	1525	300W		4.0							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLE: TROUS:
DRW: DESSINÉ:	M. VACHON	CHEKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
		DATE: DATE:
		FINISH: FINI:
		DATE: DATE:
		DRAWING: DESSIN:
		X023 / 0

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	96	104	112	120
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

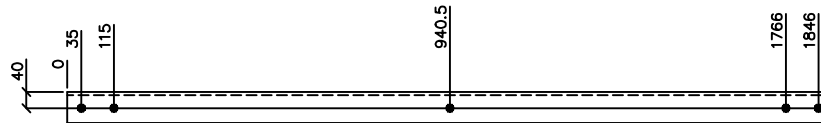


WEIGHT / MASSE: 14.7 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE
1	X024	L	76	76	7.94	1677	350W	14.7									

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.I.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.I.:	S.N.	FINISH:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/05		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	X024		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	12	12	14	14
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

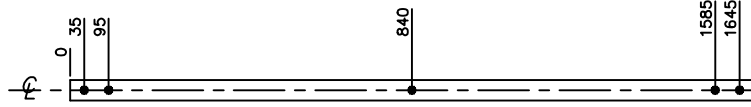


WEIGHT / MASSE: 16.5 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTE	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTE	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	X025	L	76	76	7.94	1881	350W	16.5									

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATERIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.F. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/05	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	X025 / A	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

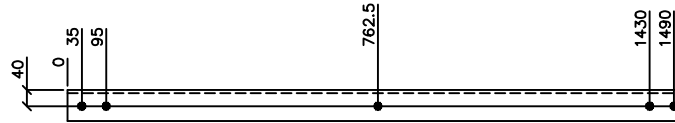


WEIGHT / MASSE: 4.4 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	FL	6.35	X	51	1680	300W	4.4									
1	X026	FL	6.35	X	51	1680	300W	4.4									

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/05		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	X026 / 0		

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

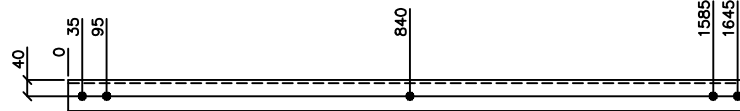


WEIGHT / MASSE: 13.4 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION			LONG.	NUANCE	REMARQUE	MASSE
1	X027	L	76	76	7.94	1525	350W	13.4									

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.F. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE:	2005/12/05	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	X027	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

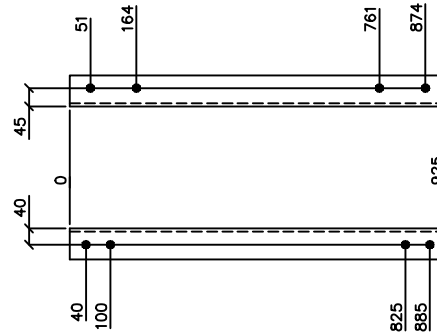


WEIGHT / MASSE: 14.8 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	X028	L	76	76	7.94	1680	350W	14.8									

1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.I.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.I.:	S.N.	FINISH:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/05		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	X028		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	3	6	9	12	15	18	21	24	27	30	33	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

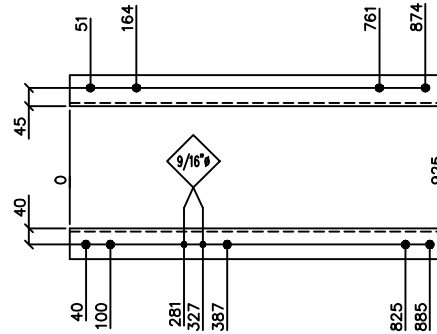


WEIGHT / MASSE: 8.1 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	H029	L	76	76	7.94	925	350W	8.1									

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
 DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 639-4386 TÉLÉCOPIEUR: (418) 639-7988		
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	HOLES: 13/16" ø
MATÉRIEL:		TROUS: S.N.
FINISH: GALV.		
DRAWN: M.VACHON	CHECKED: M.VACHON	DATE: 2005/12/06
DESSINÉ:	VÉRIFIÉ:	DATE:
SCALE: 1 = 10	FILE: 08990-SA	DRAWING: H029
ÉCHELLE:	DOSSIER:	DESSIN:

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	2	3	4	5	6	7	8	9	10	11	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

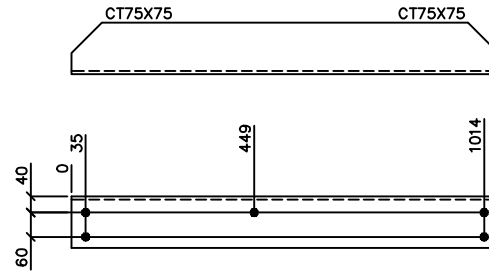


WEIGHT / MASSE: 8.1 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	H030	L 76 76	7.94	925	350W	8.1							

1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	H030
MATÉRIEL:		
HOLES:	13/16" ø	U.S. FINISH:
TROUS:		S.A. FINI:
DRAWN:	M.VACHON	CHECKED:
DESSINÉ:		VÉRIFIÉ:
SCALE:	1 = 10	FILE:
ÉCHELLE:		DOSSIER:
		DATE:
		2005/12/06
		DRAWING:
		H030

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

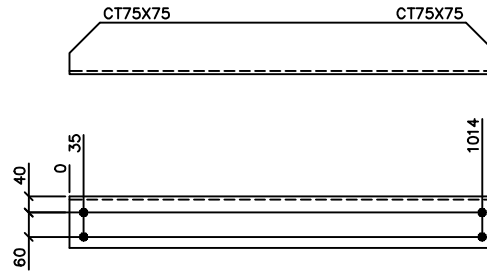


WEIGHT / MASSE: 16.6 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	H031	L 127 127	7.94	1049	350W	16.6							



1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.N.:	S.N.	FINISH:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/06		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	H031		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

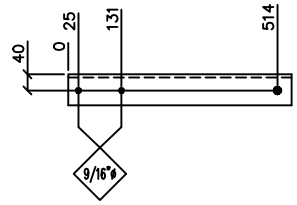


WEIGHT / MASSE: 16.6 Kg


QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	H032	L 127 127	7.94	1049	350W	16.6							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
 DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TELEPHONE: (418) 636-8386 TELECOPIEUR: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATERIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.I. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/06	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	H032	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
1	NOUVELLE DÉSIGNATION	2006/01/19
No	REVISION	DATE

 Pêches et Océans / Fisheries and Oceans
 Canada / Canada
 Garde côtière / Coast Guard

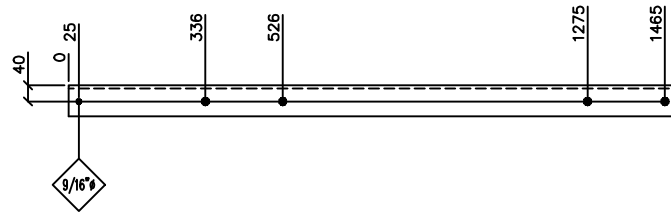

 DESSIN MICHEL VACHON INC.
 DESSIN DE STRUCTURES MÉTALLIQUES
 TÉLÉPHONE: (418) 636-4386
 TÉLÉCOPIEUR: (418) 636-7988

WEIGHT / MASSE: 5.2 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P033	L 76 76 7.94	549	350W		5.2							

STEEL TOWERS / TOURS D'ACIER			
MATERIAL: G40.21M	HOLE: 13/16" ø	U.N. FINISH: GALV.	
MATERIEL: G40.21M	TROUS: 13/16" ø	S.N. FINI: GALV.	
DRAWN: M.VACHON	CHECKED: M.VACHON	DATE: 2005/12/06	
DESSINÉ: M.VACHON	VÉRIFIÉ: M.VACHON	DATE: 2005/12/06	
SCALE: 1 = 10	FILE: 08990-SA	DRAWING: P033	2
ÉCHELLE: 1 = 10	DOSSIER: 08990-SA	DESSIN: P033	2

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 14.1 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P035	L 76 76	7.94	1500	350W	14.1							

2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
1	NOUVELLE DÉSIGNATION	2006/01/19
No	REVISION	DATE



Pêches et Océans
Canada

Fisheries and Oceans
Canada

Garde côtière

Coast Guard

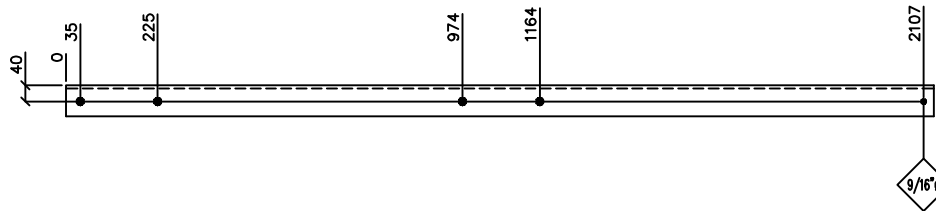


DESSIN MICHEL VACHON INC.
DESSIN DE STRUCTURES MÉTALLIQUES
TÉLÉPHONE: (418) 636-8386
TÉLÉCOPIER: (418) 636-7988

STEEL TOWERS / TOURS D'ACIER

MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:	13/16" ø	U.S. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE:	2005/12/06	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	P035	2


HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 20.1 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P036	L 76 76 7.94	2132	350W		20.1							

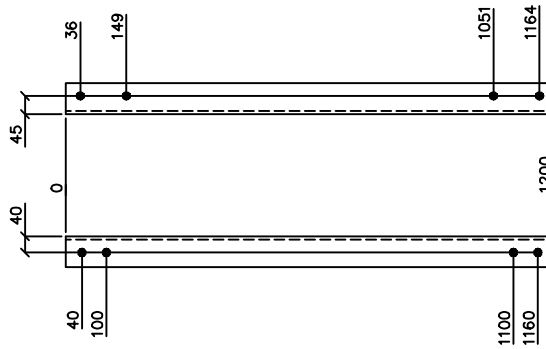
2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
1	NOUVELLE DÉSIGNATION	2006/01/19
No	REVISION	DATE

 Pêches et Océans Fisheries and Oceans
 Canada Canada
 Garde côtière Coast Guard


 DESSIN MICHEL VACHON INC.
 DESSIN DE STRUCTURES MÉTALLIQUES
 TÉLÉPHONE: (418) 636-8386
 TÉLÉCOPIEUR: (418) 636-7988

STEEL TOWERS / TOURS D'ACIER			
MATERIAL: G40.21M	HOLES: 13/16" ø	U.N. FINISH: GALV.	
DRAWN: M. VACHON	CHECKED: M. VACHON	DATE: 2005/12/06	
SCALE: 1 = 10	FILE: 08990-SA	DRAWING: P036	2

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	36	39	42	45
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

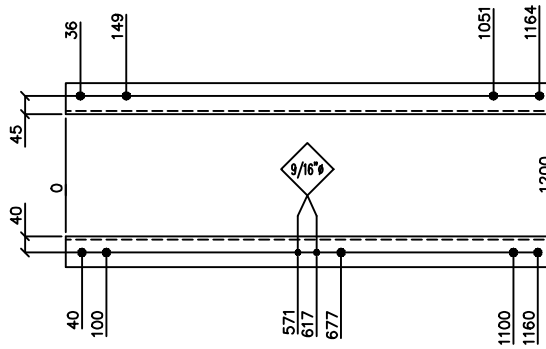


WEIGHT / MASSE: 11.3 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	H037	L	76	76	7.94	1200	350W	11.3									

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.I.:	S.N.	FINISH:	GALV.
DRWNE:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/06		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	H037		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	12	13	14	15
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

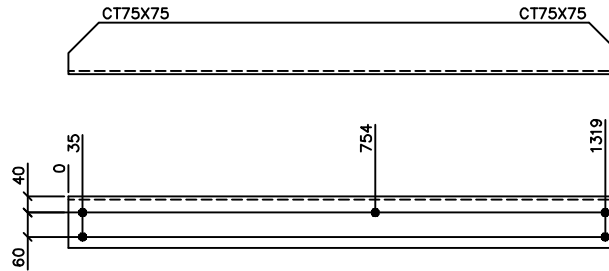


WEIGHT / MASSE: 11.3 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	H038	L 76 76 7.94	1200	350W		11.3							

1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	H038
MATÉRIEL:		
HOLES:	13/16" ø	U.S. FINISH:
TROUS:		S.M. FINI:
DRW:	M. VACHON	CHEKED:
DESSINÉ:		VÉRIFIÉ:
SCALE:	1 = 10	FILE:
ÉCHELLE:		DOSSIER:
		DATE:
		2005/12/06
		DRAWING:
		H038

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

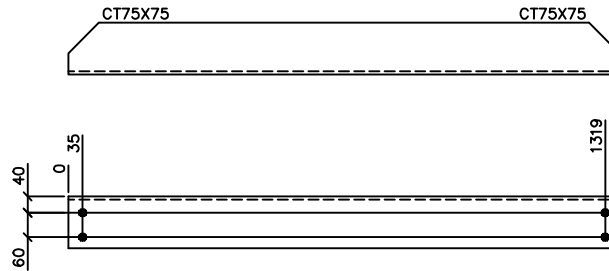


WEIGHT / MASSE: 21.4 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	H039	L 127 127	7.94	1354	350W	21.4							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:
		H039

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

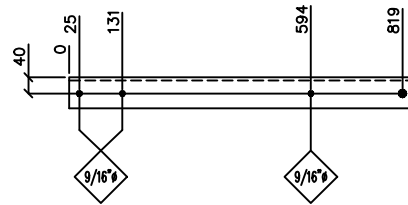


WEIGHT / MASSE: 21.4 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	H040	L 127 127	7.94	1354	350W	21.4							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-4386 TÉLÉCOPIER: (418) 638-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	HOLES: 13/16" ø
MATÉRIEL:		TROUS: S.N. FINISH: GALV.
DRAWN:	M. VACHON	CHECKED: M. VACHON
DESSINÉ:		DATE: 2005/12/06
SCALE:	1 = 10	FILE: 08990-SA
ÉCHELLE:		DRAWING: H040

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

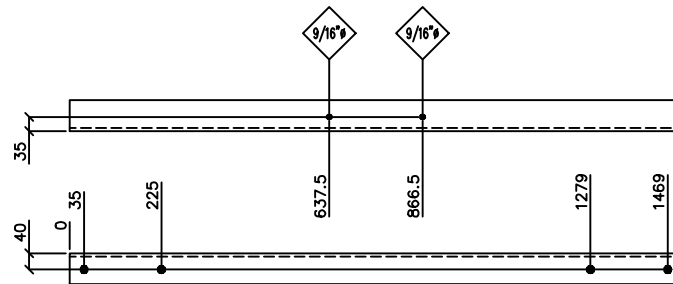


WEIGHT / MASSE: 8.0 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P041	L 76 76 7.94	854	350W		8.0							



2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
1	NOUVELLE DÉSIGNATION	2006/01/19					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.I.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.I.:	S.N.	FINISH:	
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/06		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P041/2		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 14.2 Kg

QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P042	L 76 76 7.94	1504	350W		14.2							

2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
1	NOUVELLE DÉSIGNATION	2006/01/19				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.N. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE:	2005/12/06	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	P042 / 2	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

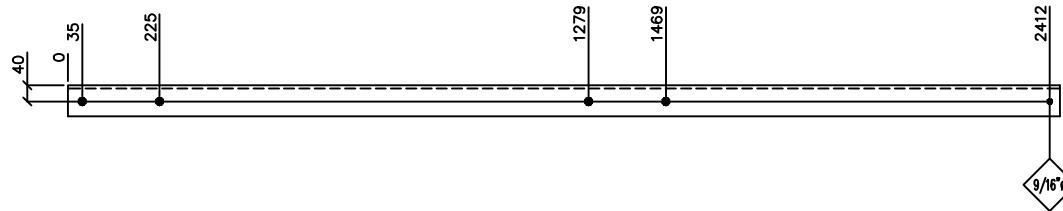


WEIGHT / MASSE: 14.2 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P043	L 76 76 7.94	1504	350W		14.2							



2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
1	NOUVELLE DÉSIGNATION	2006/01/19				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.N. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/06	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	P043 / 2	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

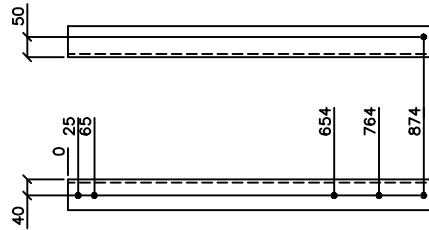


WEIGHT / MASSE: 23.0 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P044	L 76 76 7.94	2437	350W		23.0							

2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
1	NOUVELLE DÉSIGNATION	2006/01/19				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	13/16" ø	U.N. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/06	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	P044 / 2	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

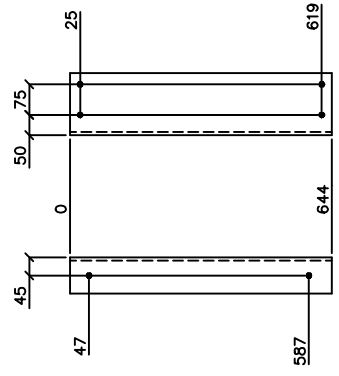


WEIGHT / MASSE: 8.6 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTE	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTE	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	P045	L	76	76	7.94	909	350W	8.6									

1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.S. S.N.:	FINISH:	GALV.
MATÉRIEL:		TROUS:		S.N.:	FINI:	
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/08	
DESSINÉ:		VÉRIFIÉ:		DATE:		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P045	
ÉCHELLE:		DOSSIER:		DESSIN:		

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

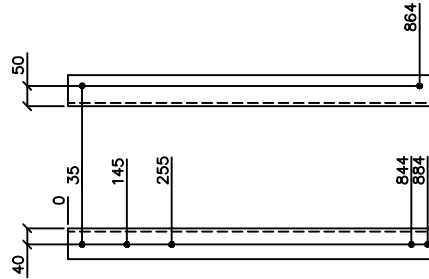


WEIGHT / MASSE: 9.7 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P046	L 152 89 7.94	644	350W		9.7							



1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.I.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/08		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P046		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

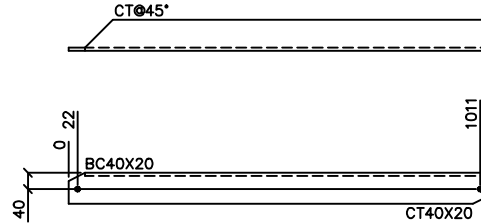


WEIGHT / MASSE: 8.6 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P047	L 76 76 7.94	909	350W		8.6							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.I.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/08		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P047		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

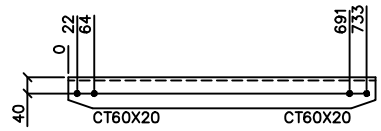


WEIGHT / MASSE: 9.7 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P048	L 76 76 7.94	1033	350W	CLIP/CIS.	9.7							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-6386 TÉLÉCOPIEUR: (418) 638-7888		
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	HOLES: 9/16" U.N. FINISH: GALV.
DESSINÉ:	M.VACHON	CHECKED: M.VACHON DATE: 2005/12/08
SCALE: 1 = 10	FILE: 08990-SA	DRAWING: P048

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

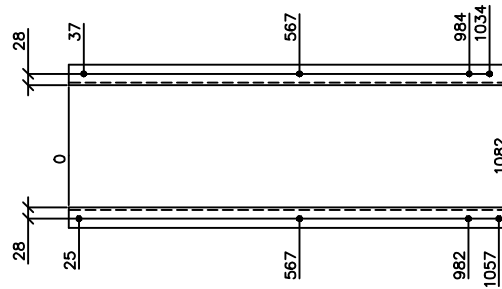


WEIGHT / MASSE: 7.1 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P049	L 76 76 7.94	755	350W	CLIP/CIS.	7.1							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22			
No	REVISION	DATE			
	Pêches et Océans Canada	Fisheries and Oceans Canada			
	Garde côtière	Coast Guard			
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888				
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.S. FINISH:	GALV.
DRW:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/08
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P049

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

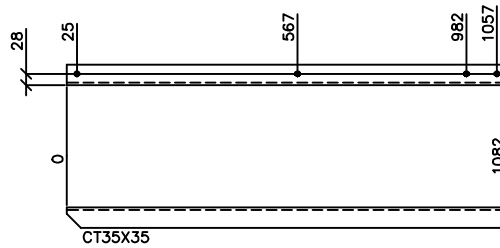


WEIGHT / MASSE: 5.3 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	P050	L	51	51	6.35	1082	350W	5.3									

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/08		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P050		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 5.3 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P051	L 51 51	6.35	1082	350W	CLIP/CIS.	5.3						

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HILES:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRWNE:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/08		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P051		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

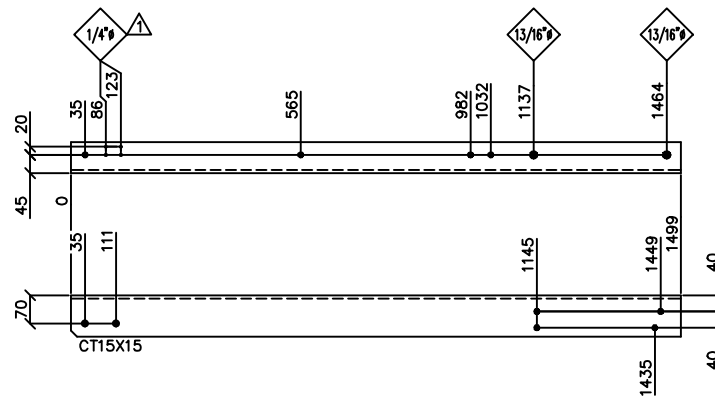


WEIGHT / MASSE: 3.2 Kg

QTY	MRK	DESCRIPTION		LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION		LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE
1	P052	L	51 51	6.35	644	350W	3.2								

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	Holes: TROUS:	9/16" ø	U.N. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/08	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	P052 / 1	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

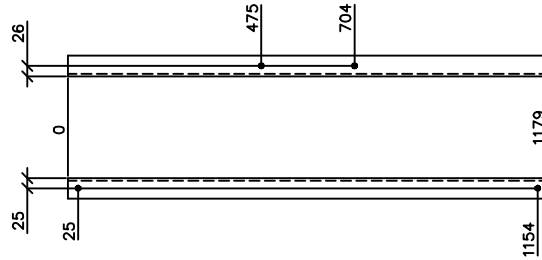


WEIGHT / MASSE: 16.6 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P053	L 102 76 7.94	1499	350W	CLIP/CIS.	16.6							

2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22			
1	HOLES ADDED/TROUS AJOUTÉS	2006/01/23			
No	REVISION	DATE			
	Pêches et Océans Canada	Fisheries and Oceans Canada			
	Garde côtière	Coast Guard			
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988				
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLES:	9/16" ø	U.S. FINISH:	GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/08
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P053/2

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

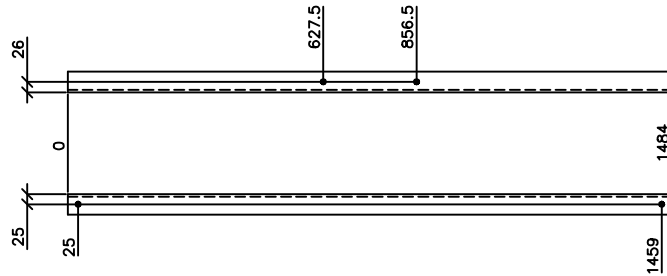


WEIGHT / MASSE: 5.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P054	L 51 51	6.35	1179	350W	5.8							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22	
No	REVISION	DATE	
	Pêches et Océans Canada	Fisheries and Oceans Canada	
	Garde côtière	Coast Guard	
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888		
STEEL TOWERS / TOURS D'ACIER			
MATERIAL:	G40.21M	Holes: 9/16" ø	
MATÉRIEL:		TROUS: 9/16" ø	
U.S. FINISH:		S.N. FINISH:	
			GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON
DESSINÉ:		VÉRIFIÉ:	
DATE:		DATE:	2005/12/08
SCALE:	1 = 10	FILE:	08990-SA
ÉCHELLE:		DOSSIER:	
		DRAWING:	P054
		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

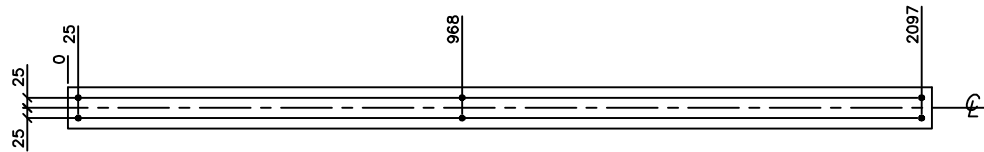


WEIGHT / MASSE: 7.3 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P055	L 51 51	6.35	1484	350W	7.3							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7888					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	9/16" ø	U.N. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/08	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	P055 / A	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

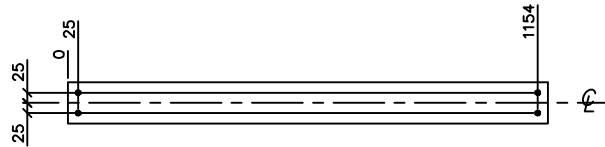


WEIGHT / MASSE: 11.1 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P056	FB 6.35 X 102	2122	300W		11.1							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

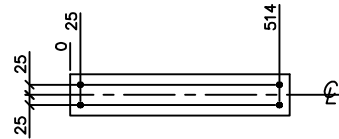


WEIGHT / MASSE: 6.2 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P057	FB 6.35 X 102	1179	300W		6.2							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:
		2005/12/08
		08990-SA
		P057

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

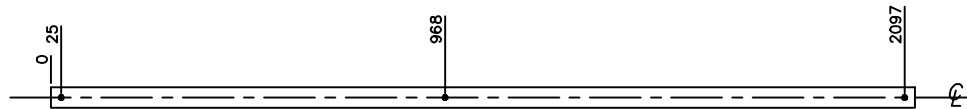


WEIGHT / MASSE: 2.8 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE				
1	P058	FB	6.35	X	102	539	300W										2.8


-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
 DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7988							
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.I.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/08		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P058 /		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 5.6 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P059	FB 6.35 X 51	2122	300W		5.6							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 3.1 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	P060	FB	6.35	X	51	1179	300W	3.1									




-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/08		
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P060 /		

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 1.7 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE				
1	P061	FB	6.35	X	51	644	300W	1.7									

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		2005/12/08
		P061
		

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

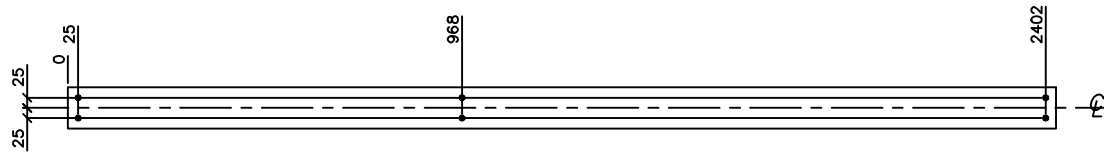


WEIGHT / MASSE: 1.4 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P062	FB 6.35 X 51	539	300W		1.4							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		P062 /
		FINISH: FINI:
		GALV.

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

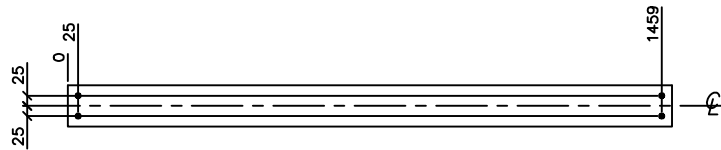


WEIGHT / MASSE: 12.7 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P063	FB 6.35 X 102	2427	300W		12.7							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		2005/12/08
		P063 / 0

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

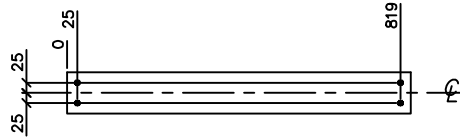


WEIGHT / MASSE: 7.8 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P064	FB 6.35 X 102	1484	300W		7.8							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:
		2005/12/08
		08990-SA
		P064

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 4.4 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	P065	FB	6.35	X	102	844	300W	4.4									

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.N.:	S.N.	FINISH:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/08		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	P065 / 0		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 6.3 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P066	FB 6.35 X 51	2427	300W		6.3							




-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
9/16" ø	U.S. S.N.	FINISH: FINI:
GALV.		
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
M. VACHON		M. VACHON
DATE:	2005/12/08	DATE:
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
		08990-SA
		DRAWING: DESSIN:
		P066 /

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 3.9 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P067	FB 6.35 X 51	1484	300W		3.9							


-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		2005/12/08
	FILE: DOSSIER:	DRAWING: DESSIN:
	08990-SA	P067 / 

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

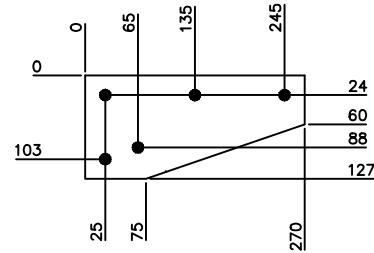


WEIGHT / MASSE: 2.2 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P068	FB 6.35 X 51	844	300W		2.2							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
		FILE: DOSSIER:
		DRAWING: DESSIN:
		2005/12/08
		08990-SA
		P068

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

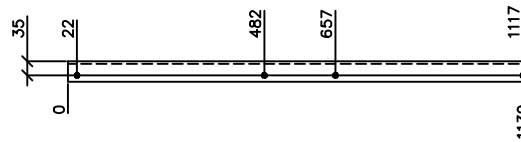


WEIGHT / MASSE: 2.1 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P069	FB 9.53 X	127	270	300W	2.1							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		FINISH: FINI:
		DATE: DATE:
		DRAWING: DESSIN:
		2005/12/08
		P069 / 0

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

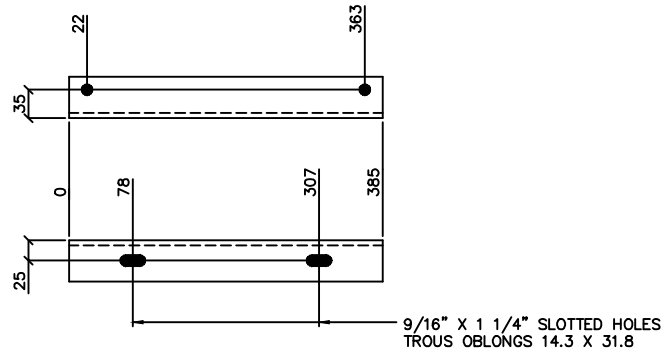


WEIGHT / MASSE: 5.6 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P070	L 51 51	6.35	1139	350W	5.6							

1	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	9/16" ø	U.S. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/12	
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	P070 / A	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

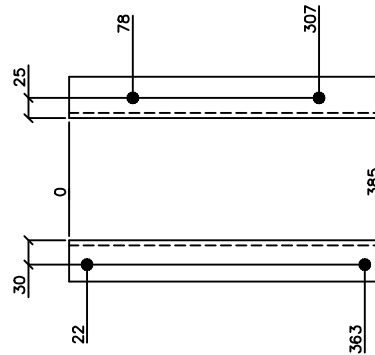


WEIGHT / MASSE: 1.9 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P071	L 51 51	6.35	385	350W	1.9							



1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/12		
SCALE:	1 = 5	FILE:	DOSSIER:	08990-SA	DRAWING:	DESIGN:	P071/A

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

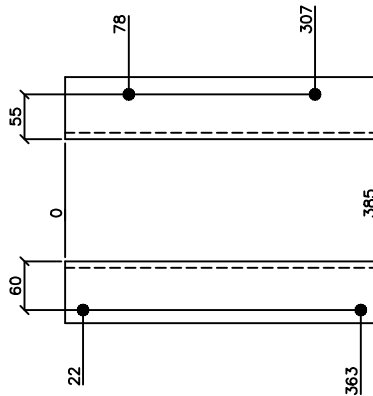


WEIGHT / MASSE: 1.9 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P072	L 51 51	6.35	385	350W	1.9							



1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N. S.N.	FINISH:	GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/12	
SCALE:	1 = 5	FILE:	DOSSIER:	08990-SA	DRAWING:	P072
ÉCHELLE:					DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

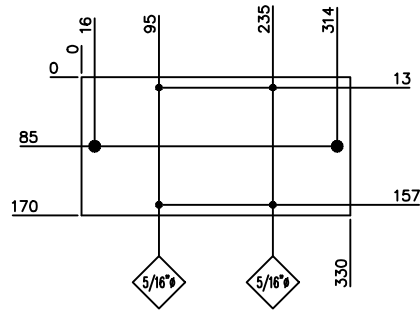


WEIGHT / MASSE: 3.6 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	P073	L	76	76	7.94	385	350W	3.6									

1	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22			
No	REVISION	DATE			
	Pêches et Océans Canada	Fisheries and Oceans Canada			
	Garde côtière	Coast Guard			
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888				
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.S. FINISH:	GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/13
SCALE:	1 = 5	FILE:	08990-SA	DRAWING:	P073
ÉCHELLE:		DOSSIER:		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

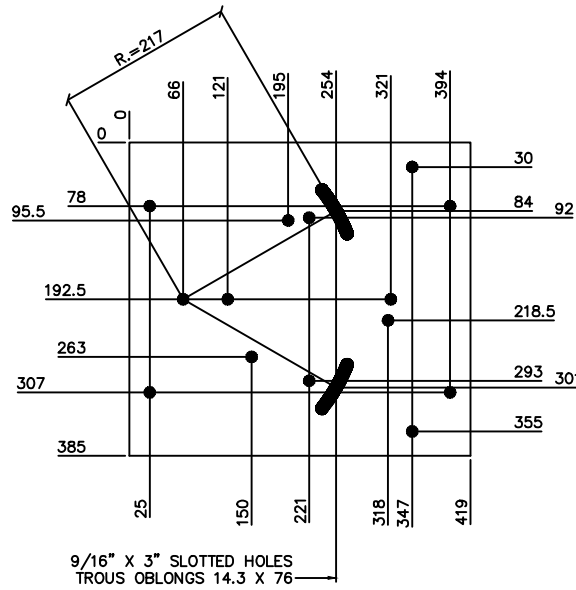


WEIGHT / MASSE: 1.4 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P074	PL 3.18 X	170	330W		1.4							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		P074
		GALV.
		2005/12/13
		08990-SA

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

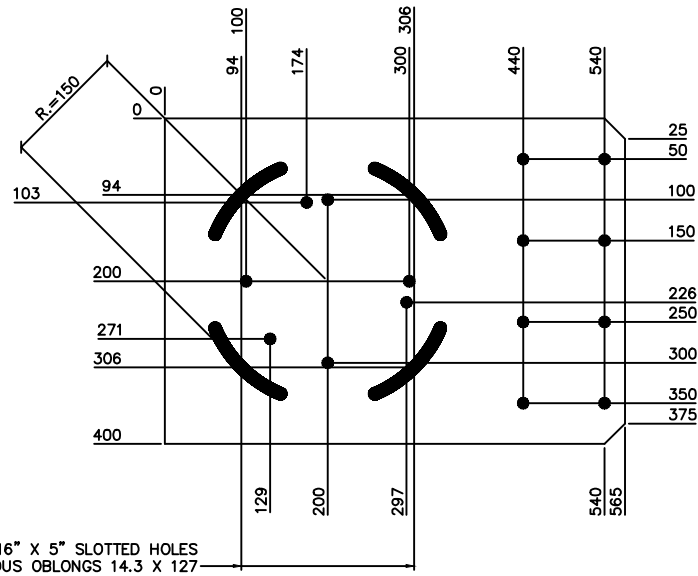


WEIGHT / MASSE: 8.3 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	P075	PL 6.35 X	385	419	300W	8.3							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		P075 /
		FINISH: FINI:
		GALV.
		2005/12/13
		08990-SA

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



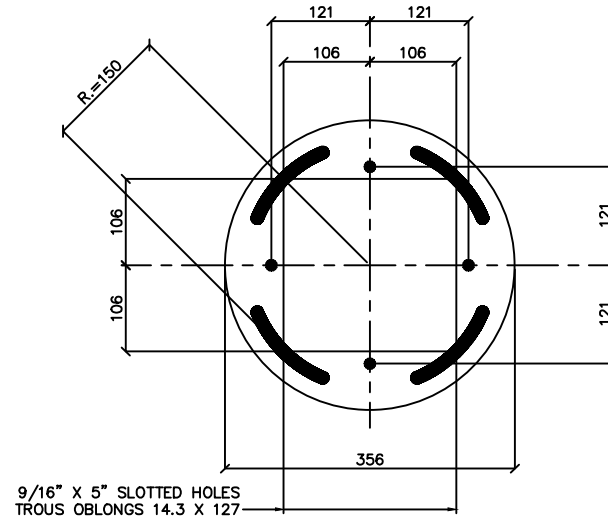
9/16" X 5" SLOTTED HOLES
TROUS OBLONGS 14.3 X 127

WEIGHT / MASSE: 11.7 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P076	PL 6.35 X 400	565	300W		11.7							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	HOLES:
MATÉRIEL:		TROUS:
		9/16" Ø
		U.S. S.W.
		FINISH:
		GALV.
DRAWN:	M. VACHON	CHECKED:
DESSINÉ:		VÉRIFIÉ:
		M. VACHON
		DATE:
		2005/12/14
SCALE:	1 = 5	FILE:
ÉCHELLE:		DOSSIER:
		08990-SA
		DRAWING:
		DESSIN:
		P076

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

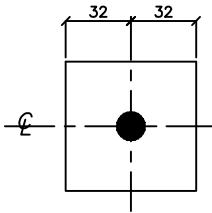


WEIGHT / MASSE: 3.9 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P077	PL 4.76 X	356Ø	300W		3.9							

1	DIAMÈTRE ET ÉPAISSEUR REVISÉS	2006/01/19			
No	REVISION	DATE			
	Pêches et Océans Canada	Fisheries and Oceans Canada			
	Garde côtière	Coast Guard			
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888				
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLE:	9/16" Ø	U.S. FINISH:	GALV.
MATÉRIEL:		TROUS:		S.N. FINI:	
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/14
DESSINÉ:		VÉRIFIÉ:		DATE:	
SCALE:	1 = 5	FILE:	08990-SA	DRAWING:	P077
ÉCHELLE:		DOSSIER:		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

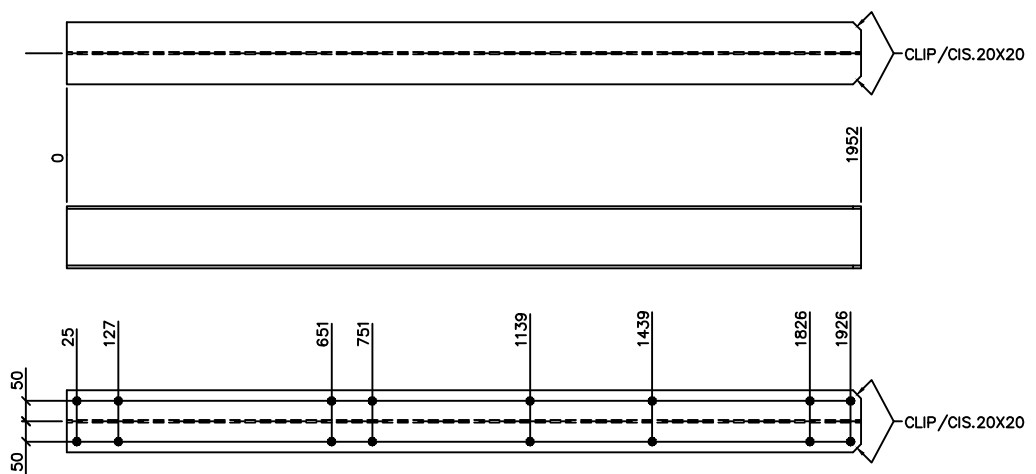


WEIGHT / MASSE: 0.2 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	P078	FB	6.35	X	64	64	300W	0.2									

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/14		
SCALE:	1 = 2	FILE:	DOSSIER:	08990-SA	DRAWING:	P078 /	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	2	2	2	2	2	2	2	2	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

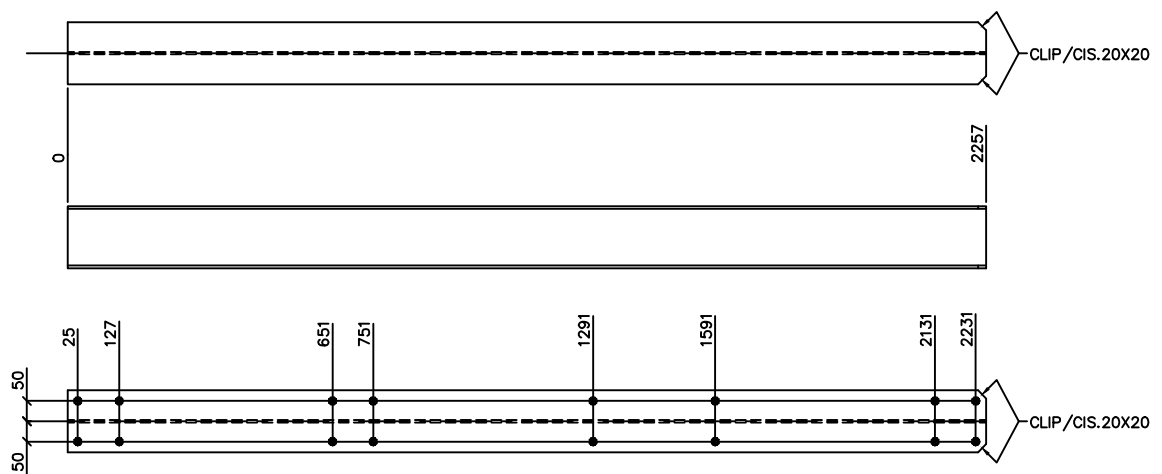


WEIGHT / MASSE: 45.0 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	R079	W	150	X	22	1952	350W	CLIP / CIS.	45.0								

-		-		-	
No	REVISION			DATE	
		Pêches et Océans Canada		Fisheries and Oceans Canada	
		Garde côtière		Coast Guard	
STEEL TOWERS / TOURS D'ACIER					
MATERIAL: G40.21M		HOLES: 9/16" ø		U.I. FINISH: GALV.	
DRAWN: M. VACHON		CHECKED: M. VACHON		DATE: 2005/12/14	
SCALE: 1 = 10		FILE: 08990-SA		DRAWING: R079 / 0	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

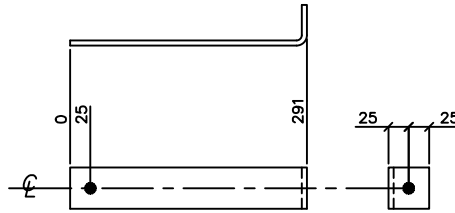


WEIGHT / MASSE: 52.1 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	R080	W	150	X	22	2257	350W	CLIP / CIS.	52.1								

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.N.:	S.N.	FINISH:	
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/14		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	R080		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

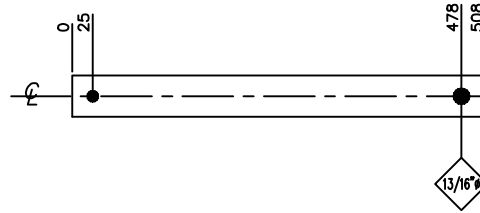


WEIGHT / MASSE: 0.9 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E081	FB 6.35 X 51	331	300W		0.9							

1	NOUVELLE DÉSIGNATION	2006/01/19					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRWNE:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/14		
DESSINE:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 5	FILE:	DOSSIER:	08990-SA	DRAWING:	DESSIN:	E081/A

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	2	3	4	5	6	7	8	9	10	11	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

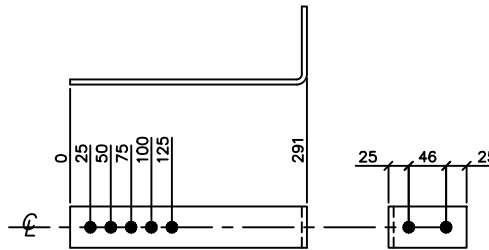


WEIGHT / MASSE: 1.3 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	E082	FB 6.35 X 51	508	300W		1.3							

1	NOUVELLE DÉSIGNATION	2006/01/19				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	9/16" ø	U.N. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE: DATE:	2005/12/14	
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	E082 / 1	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

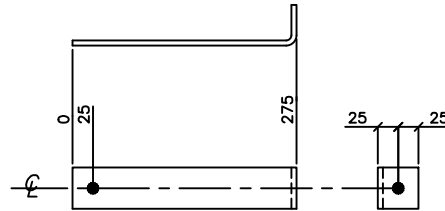


WEIGHT / MASSE: 1.0 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	M083	FB 6.35 X 51	377	300W		1.0							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
9/16" ø	U.N. S.N.	FINISH: FINI:
DATE: 2005/12/14		
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
M. VACHON		M. VACHON
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
08990-SA		DRAWING: DESSIN:
		M083 /

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

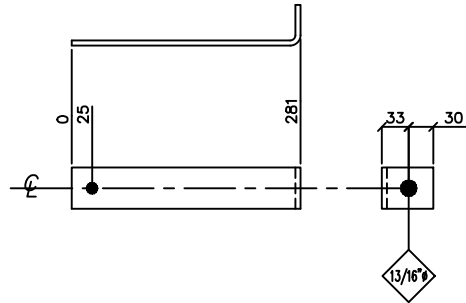


WEIGHT / MASSE: 0.8 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE				
1	E084	FB	6.35	X	51	315	300W	0.8									

1	NOUVELLE DÉSIGNATION	2006/01/19
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	Holes: 9/16" ø
MATÉRIEL:		TROUS:
U.S. FINISH:		S.N. FINISH:
DRAWN:	M. VACHON	CHECKED:
DESSINÉ:		VÉRIFIÉ:
SCALE:	1 = 5	FILE:
ÉCHELLE:		DOSSIER:
		DATE:
		2005/12/14
		DRAWING:
		E084

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	12	13	14	15
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

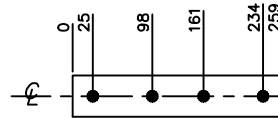


WEIGHT / MASSE: 0.9 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E085	FB 6.35 X 51	334	300W		0.9							

1	NOUVELLE DÉSIGNATION	2006/01/19					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/14		
DESIGNÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 5	FILE:	DOSSIER:	08990-SA	DRAWING:	DESSIN:	E085 / A

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	2	2	4	4	6	6	8	8	10	10	12	12	14	14
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

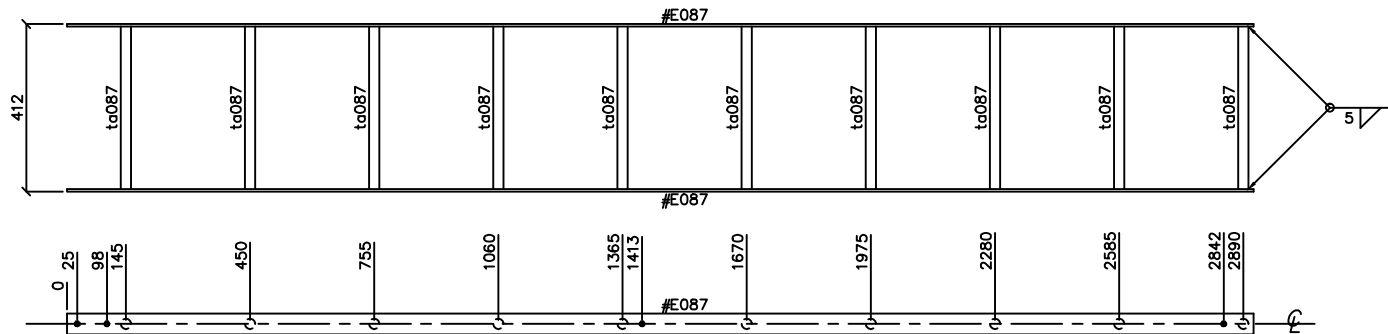


WEIGHT / MASSE: 0.7 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	E086	FB 6.35 X 51	259	300W		0.7							

1	NOUVELLE DÉSIGNATION	2006/01/19				
No	REVISION	DATE				
	Pêches et Océans Canada	Fisheries and Oceans Canada				
	Garde côtière	Coast Guard				
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888					
STEEL TOWERS / TOURS D'ACIER						
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:	9/16" ø	U.N. S.N.	FINISH: FINI:	GALV.
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:	M. VACHON	DATE:	2005/12/14	
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:	E086 / A	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

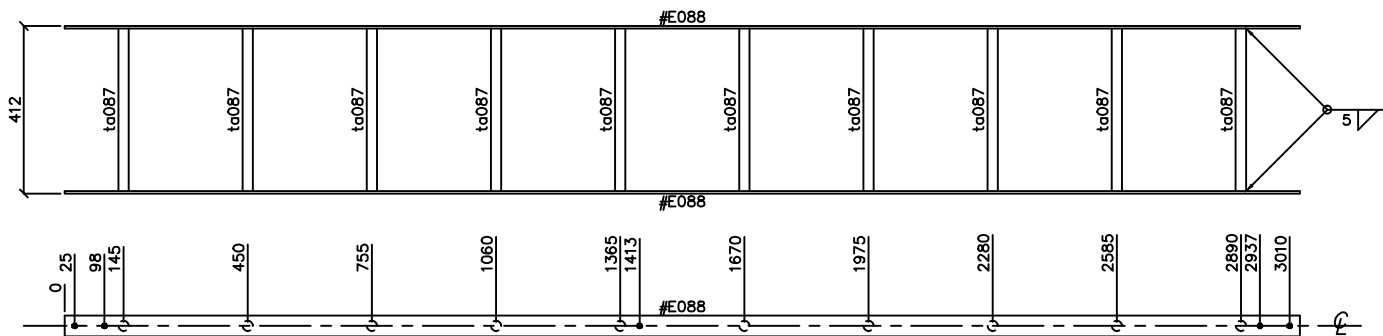


WEIGHT / MASSE: 31.7 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
2	E087	FB 6.35 X 51	2915	300W	ASS. #E087	15.3							
10	ta087	● 25.4 ø X	399	300W		16.4							

No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-8388 TÉLÉCOPIEUR: (418) 638-7988							
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLES:	9/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/15		
DESIGN:		VERIFIED:		DATE:			
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	E087		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

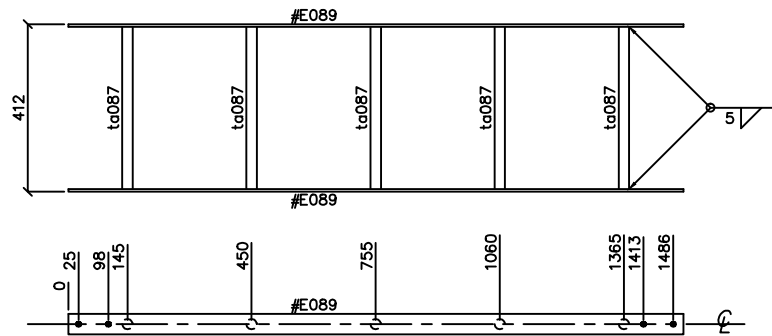


WEIGHT / MASSE: 32.3 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
2	E088	FB 6.35 X 51	3035	300W	ASS. #E088	15.9							
10	ta087	● 25.4 ø X	399	300W		16.4							

No	REVISION	DATE			
Pêches et Océans Canada		Fisheries and Oceans Canada			
Garde côtière		Coast Guard			
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-8388 TÉLÉCOPIER: (418) 638-7888					
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLE:	9/16" ø	U.I. FINISH:	GALV.
MATÉRIEL:		TROUS:		S.N. FINI:	
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/15
DESSINÉ:		VÉRIFIÉ:		DATE:	
SCALE:	1 = 10	FILE:	08990-SA	DRAWING:	E088
ÉCHELLE:		DOSSIER:		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

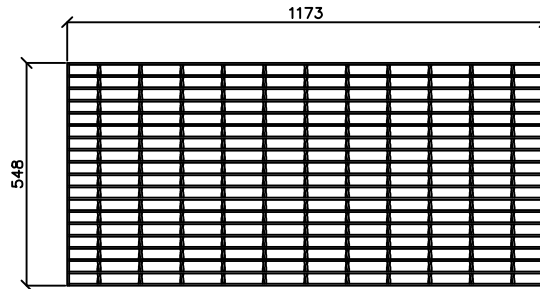


WEIGHT / MASSE: 16.1 Kg

QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
2	E089	FB 6.35 X 51	1511	300W	ASS. #E089	7.9							
5	ta087	● 25.4 ø X	399	300W		8.2							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 638-4386 TÉLÉCOPIEUR: (418) 638-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
	FILES: DOSSIER:	FINISH: FINI:
	08990-SA	2005/12/15
		DRAWING: DESSIN:
		E089

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

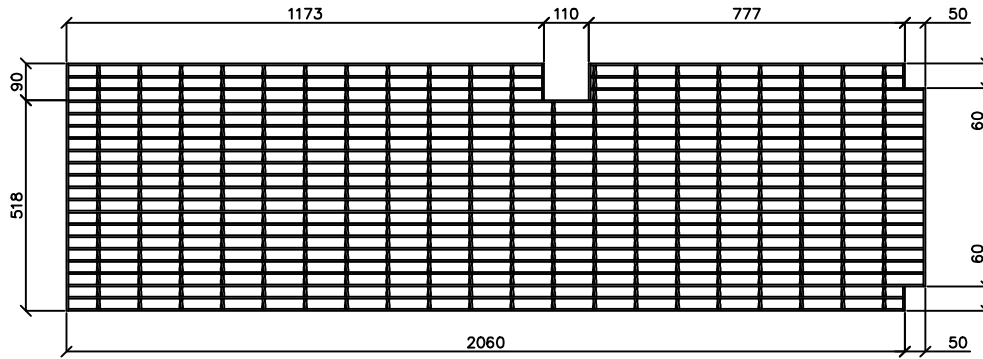


WEIGHT / MASSE: 28.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P090	GRA.	4.76	31.8	548	1173	30-102	SERRATED/DENTELÉ					28.8

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988		
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	H.OLES: - U.N. FINISH: GALV.
MATÉRIEL:		TROUS: - S.N. FINI: GALV.
DRAWN:	M. VACHON	CHECKED: M. VACHON
DESSINÉ:		VÉRIFIÉ: M. VACHON
SCALE:	1 = 10	DATE: 2005/12/15
ÉCHELLE:		FILE: 08990-SA
		DOSSIER: P090

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

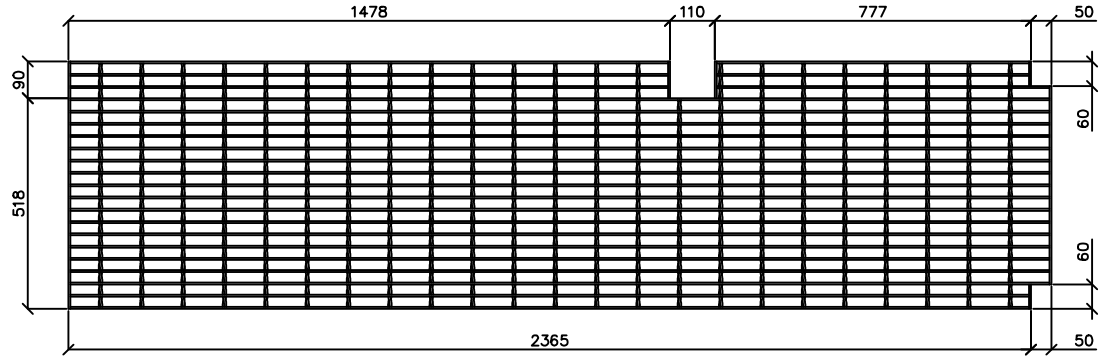


WEIGHT / MASSE: 57.5 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P091	GRA.	4.76	31.8	608	2110	30-102	SERRATED/DENTELE					57.5

-	-	-
No	REVISION	DATE
Pêches et Océans / Fisheries and Oceans Canada / Canada Garde côtière / Coast Guard		
 DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7988		
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: G40.21M	HOLES: -	U.N. FINISH: GALV.
MATERIEL:	TROUS:	S.N. FINI:
DRAWN: M.VACHON	CHECKED: M.VACHON	DATE: 2005/12/15
DESSINÉ:	VÉRIFIÉ:	DATE:
SCALE: 1 = 10	FILE DOSSIER: 08990-SA	DRAWING DESSIN: P091
ECHELLE:	DOSSIER:	DESSIN:

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

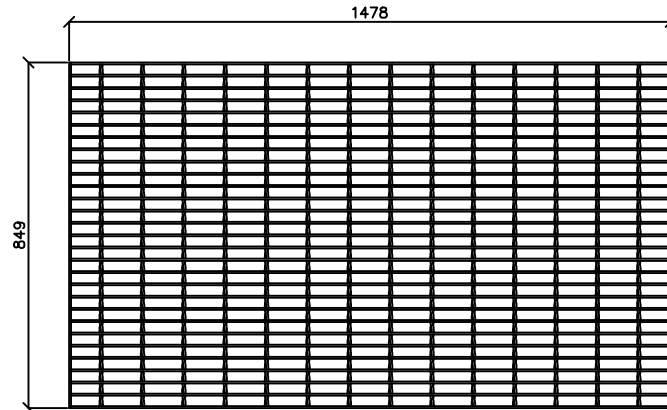


WEIGHT / MASSE: 65.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P092	GRA.	4.76	31.8	608	2415	30-102	SERRATED/DENTELE					65.8




-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 10	FILE: DOSSIER:
		08990-SA
		DATE: DESSIN:
		2005/12/15
		P092

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

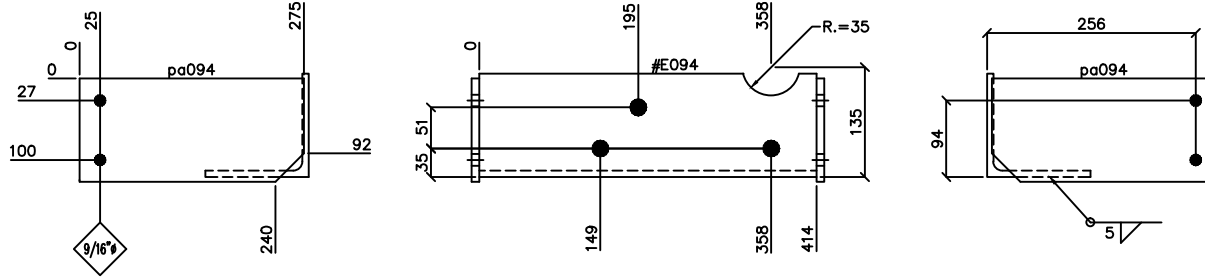


QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	P093	GRA.	4.76	31.8	849	1478	30-102	SERRATED/DENTELE					

WEIGHT / MASSE: 56.2 Kg

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
U.N. S.N.	-	FINISH: FINI:
DRAWN: DESSINÉ:		M.VACHON
CHECKED: VÉRIFIÉ:		M.VACHON
SCALE: ÉCHELLE:	1 = 10	DATE: DATE:
FILE: DOSSIER:	08990-SA	DRAWING: DESSIN:
		P093 / 

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
1	NEW MARK/NOUVELLE MARQUE	2006/01/23

No	REVISION	DATE
	Pêches et Océans / Fisheries and Oceans Canada Garde côtière / Coast Guard	

WEIGHT / MASSE: 12.0 Kg

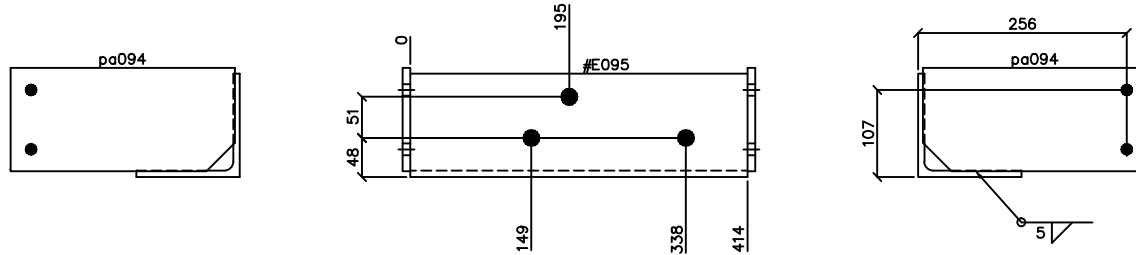
QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E094	L 127	127	7.94	414	350W	ASS. #E094	6.6					
2	pa094	FB 9.53	X 127	275	300W			5.4					

DESSIN MICHEL VACHON INC.
 DESSIN DE STRUCTURES MÉTALLIQUES
 TÉLÉPHONE: (418) 636-8386
 TÉLÉCOPIEUR: (418) 636-7988

STEEL TOWERS / TOURS D'ACIER

MATERIAL: G40.21M	HOLES: 13/16"ø	U.S. FINISH: GALV.
DRAWN: M.VACHON	CHECKED: M.VACHON	DATE: 2005/12/15
SCALE: 1 = 5	FILE DOSSIER: 08990-SA	DRAWING DESSIN: E094

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

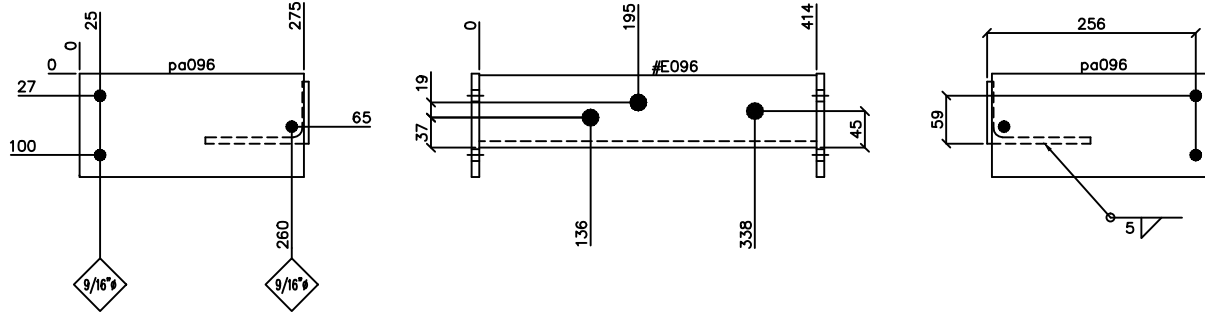


WEIGHT / MASSE: 12.0 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E095	L 127 127	7.94	414	350W	6.6							
2	pa094	FB 9.53 X 127	275	300W	ASS. #E095	5.4							

2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22					
1	NEW MARK/NOUVELLE MARQUE	2006/01/23					
No	REVISION	DATE					
Pêches et Océans Canada		Fisheries and Oceans Canada					
Garde côtière		Coast Guard					
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988							
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/16		
SCALE:	1 = 5	FILE:	DOSSIER:	08990-SA	DRAWING:	DESIGN:	E095 / 2

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
1	NEW MARK/NOUVELLE MARQUE	2006/01/23

No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard

WEIGHT / MASSE: 10.9 Kg

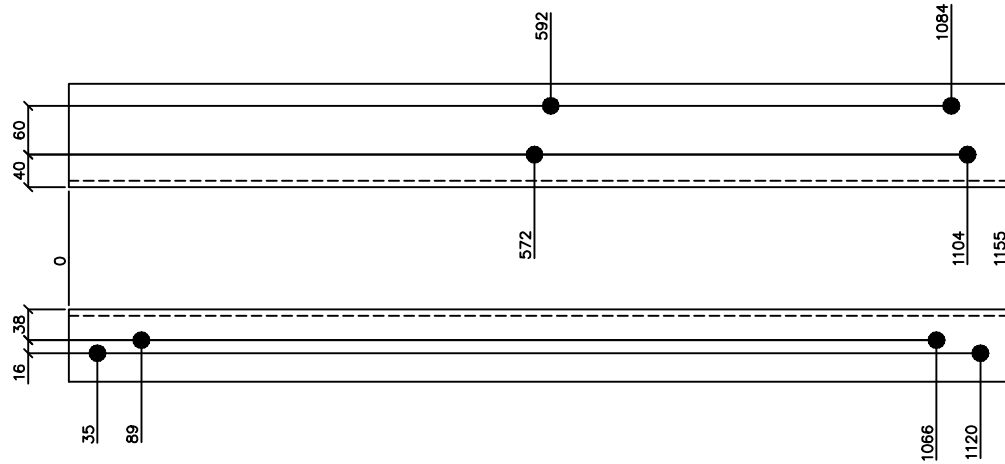
QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E096	L 127 89	7.94	414	ASS. #E096	5.5							
2	pa096	FB 9.53 X 127	275	300W		5.4							

DESSIN MICHEL VACHON INC.
DESSIN DE STRUCTURES MÉTALLIQUES
TÉLÉPHONE: (418) 636-8386
TÉLÉCOPIEUR: (418) 636-7988

STEEL TOWERS / TOURS D'ACIER

MATERIAL: G40.21M	HOLES: 13/16" ø	U.I. FINISH: GALV.
DRAWN: M. VACHON	CHECKED: M. VACHON	DATE: 2005/12/16
SCALE: 1 = 5	FILE DOSSIER: 08990-SA	DRAWING DESSIN: E096 / 2

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 15.4 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E097	L 127 89 7.94	1155	350W		15.4							

2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
1	NEW MARK/NOUVELLE MARQUE	2006/01/23

No REVISION DATE



Pêches et Océans Fisheries and Oceans
Canada Canada

Garde côtière Coast Guard

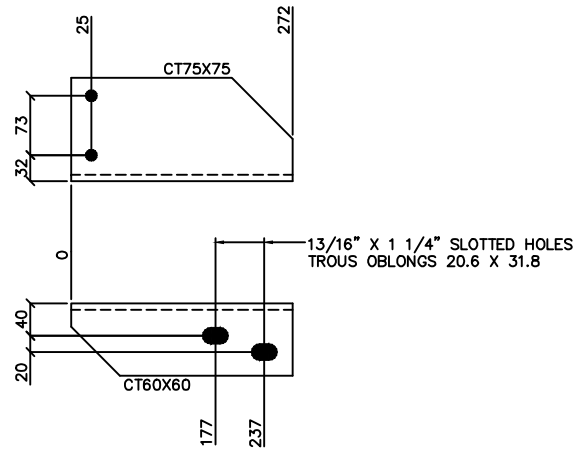


DESSIN MICHEL VACHON INC.
DESSIN DE STRUCTURES MÉTALLIQUES
TÉLÉPHONE: (418) 636-8386
TÉLÉCOPIER: (418) 636-7988

STEEL TOWERS / TOURS D'ACIER

MATERIAL: G40.21M	HOLE: 13/16" ø	U.N. FINISH: GALV.
MATERIEL:	TROUS:	S.N. FINI:
DRAWN: M.VACHON	CHECKED: M.VACHON	DATE: 2005/12/16
DESSINÉ:	VÉRIFIÉ:	DATE:
SCALE: 1 = 5	FILE DOSSIER: 08990-SA	DRAWING DESSIN: E097
ECHELLE:	DOSSIER:	DESSIN:


HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 3.6 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E098	L 127 89 7.94	272	350W	CLIP / CIS.	3.6							

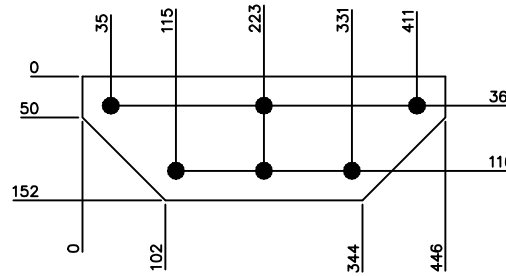
2	GRADE CHANGED/NUANCE CHANGÉE	2006/03/22
1	NEW MARK/NOUVELLE MARQUE	2006/01/23
No	REVISION	DATE

 Pêches et Océans Fisheries and Oceans
 Canada Canada
 Garde côtière Coast Guard


 DESSIN MICHEL VACHON INC.
 DESSIN DE STRUCTURES MÉTALLIQUES
 TÉLÉPHONE: (418) 636-8386
 TÉLÉCOPIEUR: (418) 636-7988

STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLES:	9/16" ø	U.S. FINISH:	GALV.		
DESSINÉ:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/16		
SCALE:	1 = 5	FILE:	DOSSIER:	08990-SA	DRAWING:	E098 / 2	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	4	4	8	8	12	12	16	16	20	20	24	24	28	28
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

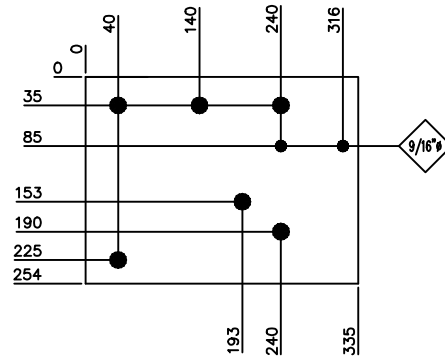


WEIGHT / MASSE: 4.5 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	M100	FB 9.53 X	152	446	300W	4.5							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M100

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	6	6	6	6	6	6	6	6	6	6	6	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

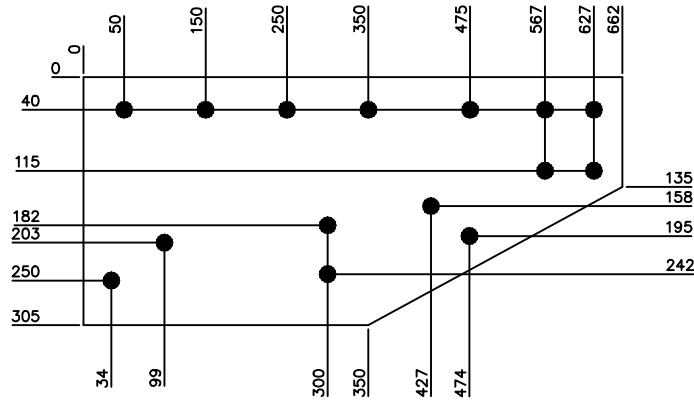


WEIGHT / MASSE: 6.6 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M101	FB 9.53 X 254	335	300W		6.6							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M101 /
		GALV.
		2005/12/16
		08990-SA

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	7	7	7	7	7	7	7	7	7	7	7	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

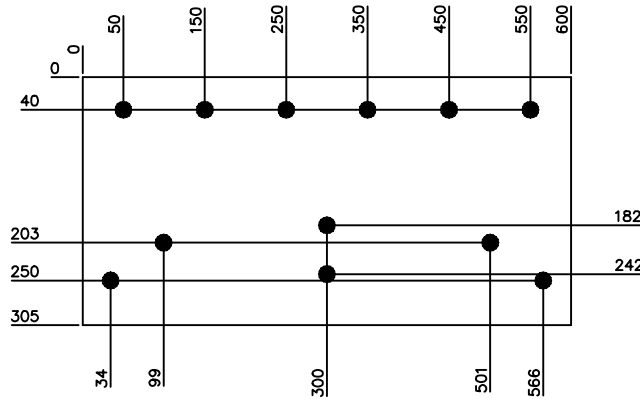


WEIGHT / MASSE: 13.6 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	M102	FB 9.53 X 305	662	300W		13.6							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M102 /
		FINISH: FINI:
		GALV.

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	8	16	24	32	32	32	32	32	32	32	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

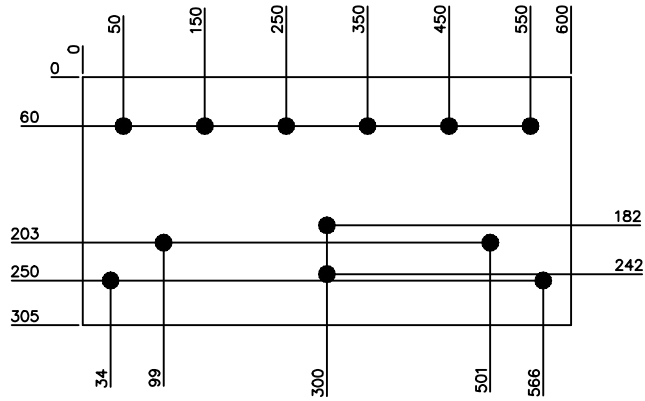


WEIGHT / MASSE: 14.2 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	M103	FB 9.53 X 305	600	300W		14.2							

-	-	-			
No	REVISION	DATE			
	Pêches et Océans Canada	Fisheries and Oceans Canada			
	Garde côtière	Coast Guard			
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988				
STEEL TOWERS / TOURS D'ACIER					
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.S. FINISH:	GALV.
MATÉRIEL:		TROUS:		S.N. FINI:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/16
DESSINÉ:		VÉRIFIÉ:		DATE:	
SCALE:	1 = 5	FILE:	08990-SA	DRAWING:	M103
ÉCHELLE:		DOSSIER:		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	8	8	16	16	24	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

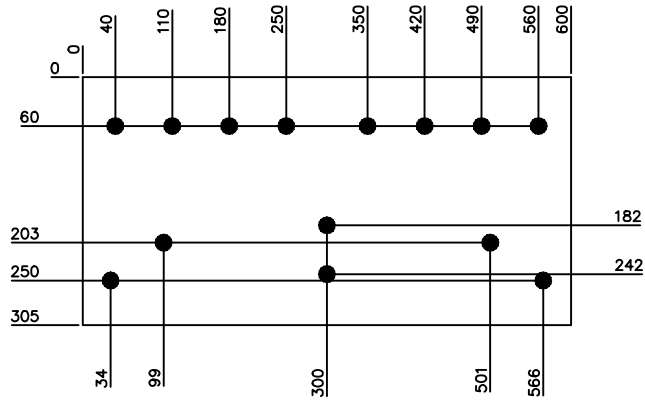


WEIGHT / MASSE: 14.2 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	M105	FB	9.53	X	305	600	300W	14.2									

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLE: TROUS:
13/16" ø	U.S. FINISH: S.N. GALV.	
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
M.VACHON	M.VACHON	DATE: DATE:
2005/12/16		
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
08990-SA	DRAWING: DESSIN:	M105

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

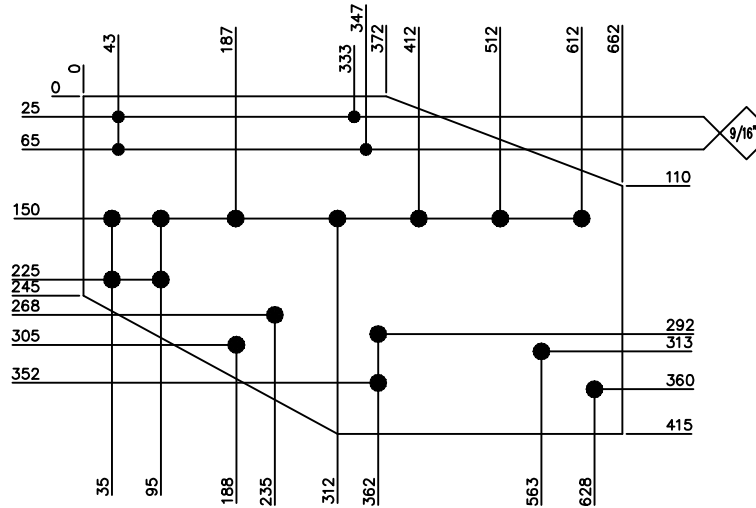


WEIGHT / MASSE: 14.2 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	M107	FB	9.53	X	305	600	300W	14.2									

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M107

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

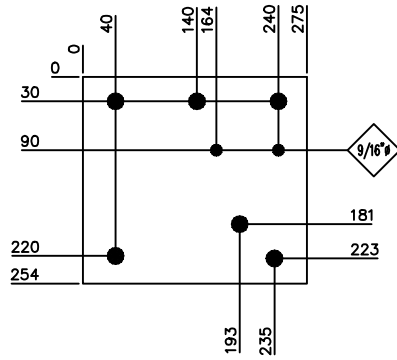


WEIGHT / MASSE: 18.0 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M108	PL 9.53 X	415	662	300W	18.0							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M108 /
		GALV.
		2005/12/16
		08990-SA

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

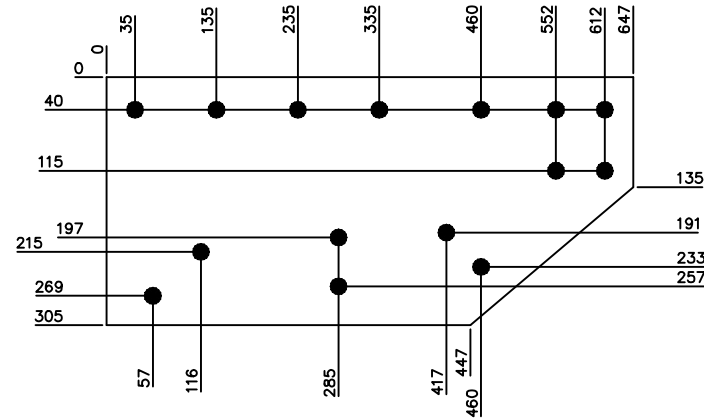


WEIGHT / MASSE: 5.4 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M109	FB 9.53 X	254	275	300W	5.4							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M109 /
		FINISH: FINI:
		GALV.

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

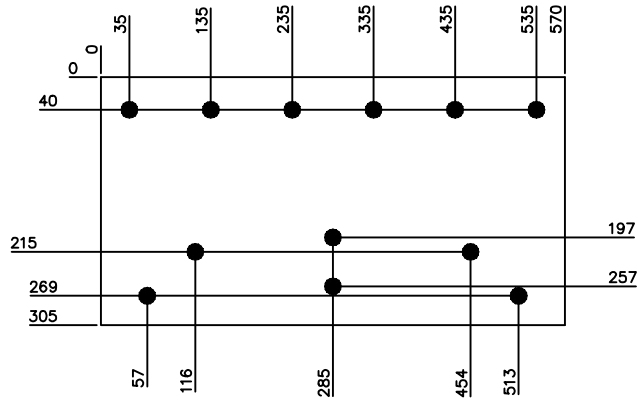


WEIGHT / MASSE: 13.9 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	M110	FB	9.53	X	305	647	300W	13.9									

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 656-8383 TÉLÉCOPIEUR: (418) 656-7968	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL:	G40.21M	HOLE:
MATÉRIEL:		TROUS:
DRAWN:	M.VACHON	CHECKED:
DESSINÉ:		VÉRIFIÉ:
SCALE:	1 = 5	FILE:
ÉCHELLE:		DOSSIER:
		DATE:
		DESSIN:

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	32	32	32	32
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

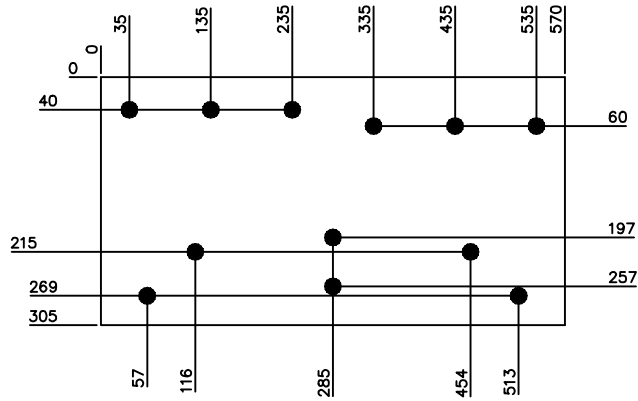


WEIGHT / MASSE: 13.4 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	M111	FB 9.53 X	305	570	300W	13.4							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		FINISH: FINI:
		2005/12/17
		GALV.
		M111

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

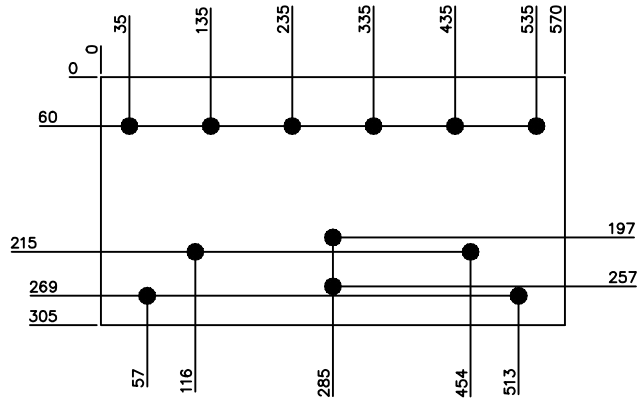


WEIGHT / MASSE: 13.4 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M112	FB 9.53 X	305	300W		13.4							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		FINISH: FINI:
		2005/12/17
		GALV.
		M112

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	32	40	32	40
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

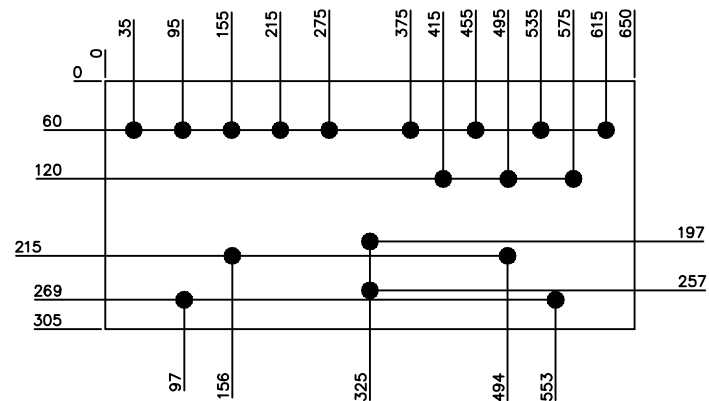


WEIGHT / MASSE: 13.4 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	M113	FB	9.53	X	305	570	300W	13.4									

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIEUR: (418) 636-7888						
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
MATERIEL:		TROUS:		U.N.:	S.N.	FINI:	
DRAWN:	M. VACHON	CHECKED:	M. VACHON	DATE:	2005/12/17		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 5	FILE:	08990-SA	DRAWING:	M113		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

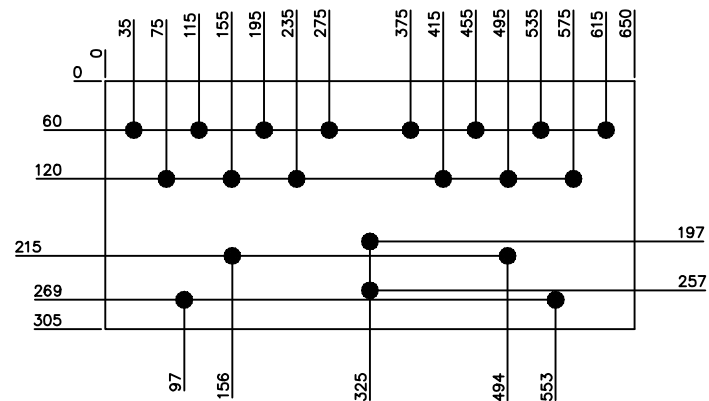


WEIGHT / MASSE: 20.4 Kg

QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION			LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE				LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE			LONG.	NUANCE	REMARQUE	MASSE	
1	M116	FB	12.7	X	305	650	300W	20.4									

-	-	-					
No	REVISION	DATE					
	Pêches et Océans Canada	Fisheries and Oceans Canada					
	Garde côtière	Coast Guard					
 DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888							
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	13/16" ø	U.N.:	S.N.	FINISH:	GALV.
MATÉRIEL:		TROUS:		U.N.:	S.N.	FINI:	
DRAWN:	M.VACHON	CHECKED:	M.VACHON	DATE:	2005/12/17		
DESSINÉ:		VÉRIFIÉ:		DATE:			
SCALE:	1 = 5	FILE:	08990-SA	DRAWING:	M116		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

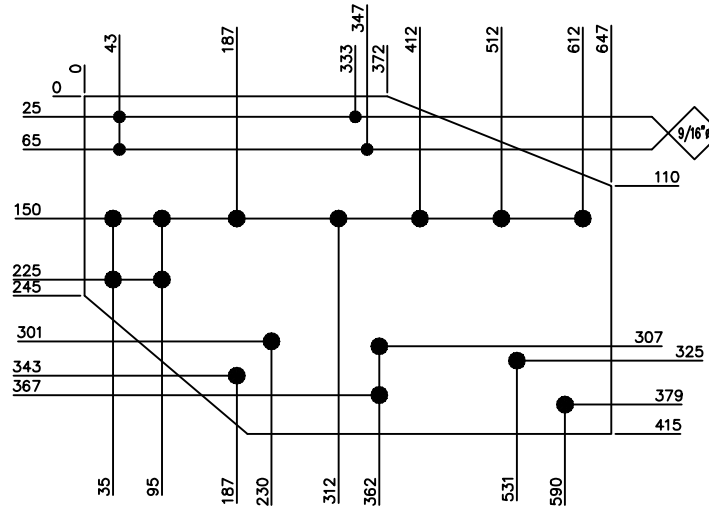


WEIGHT / MASSE: 20.4 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M117	FB 12.7 X 305	650	300W		20.4							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M.VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M117

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

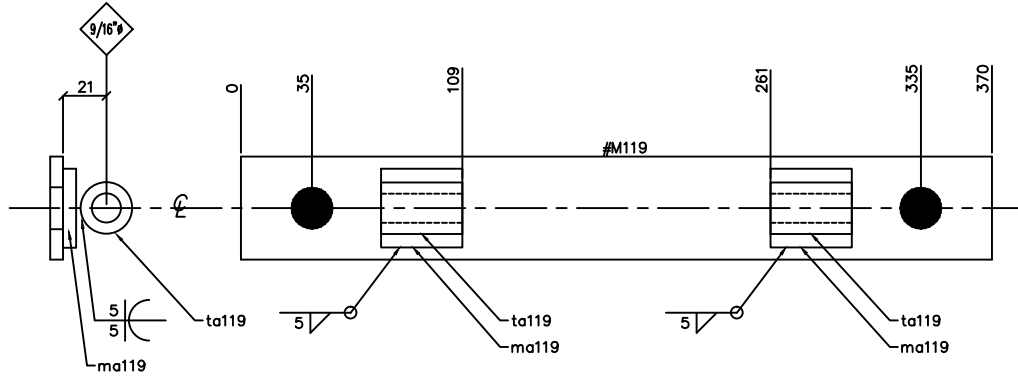


WEIGHT / MASSE: 18.3 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M118	PL 9.53 X	415	300W		18.3							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-4386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 5	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M118 /
		FINISH: FINI:
		GALV.

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

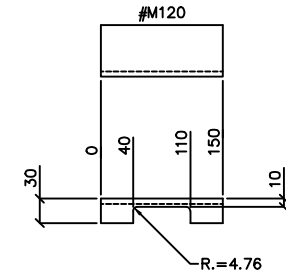
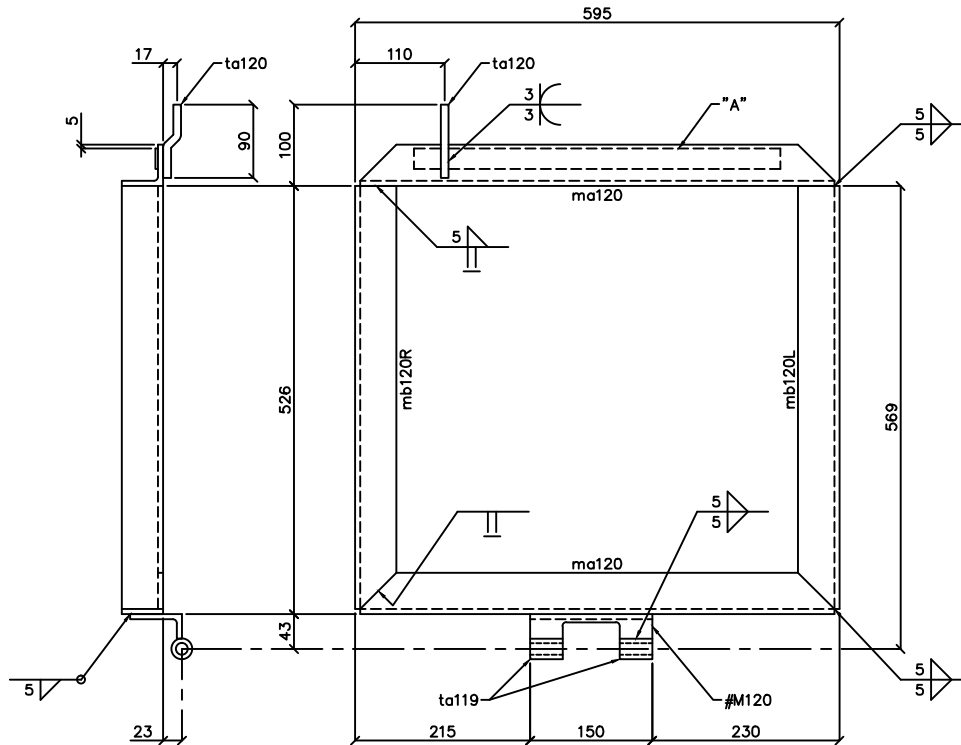


WEIGHT / MASSE: 1.3 Kg

QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M119	FB 6.35 X 51	370	300W	ASS. #M119	1.0							
2	ta119	● 25.4 ø X	40	300W		0.3							
2	ma119	FB 6.35 X 39	40	300W		0.1							

1	ADD ma119 AJOUTÉ	A.L. 2011/01/06
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-2386 TÉLÉCOPIEUR: (418) 636-7988		
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATERIEL:	G40.21M	HOLES: TROUS:
DRAWING: DESSIN:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 2	FILE: DOSSIER:
		U.N. S.N.
		FINISH: FINI:
		DATE: DATE:
		DRAWING: DESSIN:
		M119

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



3	GRADE CHANGED / NUANCE CHANGÉE	2006/03/22
2	ta120 ADDED / AJOUTÉE	2006/01/23
1	ta119 REDFINED / REDEFINIE	2006/01/19
No	REVISION	DATE
	Pêches et Océans / Fisheries and Oceans Canada Garde côtière / Coast Guard	

WEIGHT / MASSE: 11.8 Kg

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	M120	L 64 30	6.35	150	350W	0.7	2	ta119	● 25.4 Ø X	40	300W	▲	0.3
2	ma120	L 51 51	6.35	582	350W	5.6	1	"A"	PL 3.18 X 25	450	NEOP.	▲	-
1	mb120R	L 51 51	6.35	520	350W	2.6							
1	mb120L	L 51 51	6.35	520	350W	2.6							
1	ta120	● 9.53 Ø X	95	300W	▲	0.0							

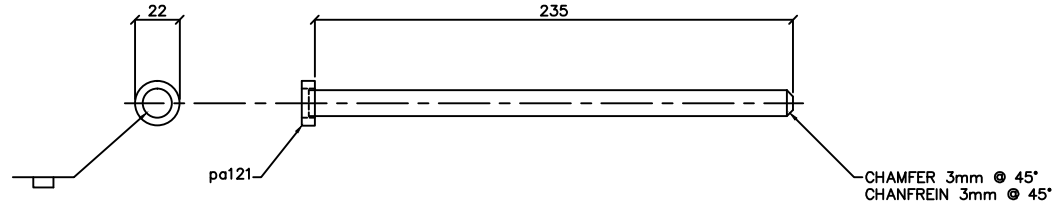
ASS. #M120

DESSIN MICHEL VACHON INC.
 DESSIN DE STRUCTURES METALLIQUES
 TELEPHONE: (418) 636-8386
 TELECOPIEUR: (418) 636-7888

STEEL TOWERS / TOURS D'ACIER

MATERIAL: G40.21M	HOLE: 9/16" Ø	U.S. FINISH: GALV.
MATERIEL: G40.21M	TROUS: 9/16" Ø	S.M. FINISH: GALV.
DRAWN: M. VACHON	CHECKED: M. VACHON	DATE: 2005/12/17
DESSEINÉ: M. VACHON	VÉRIFIÉ: M. VACHON	DATE: 2005/12/17
SCALE: 1 = 5	FILE: 08990-SA	DRAWING: M120
ECHELLE: 1 = 5	DOSSIER: 08990-SA	DESSIN: M120

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

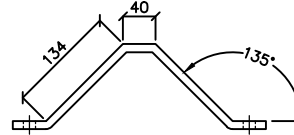
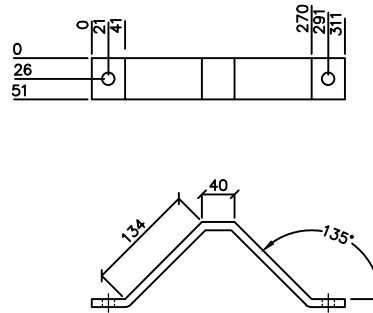



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1	M121	● 12.7	Ø X	238	300W	0.2							
1	pa121	PL 6.35	X	22Ø	300W	0.0							

WEIGHT / MASSE: 0.2 Kg

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES MÉTALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIEUR: (418) 636-7888	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	G40.21M	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 2	FILE: DOSSIER:
		DATE: DATE:
		DRAWING: DESSIN:
		M121 /
		FINISH: FINI:
		GALV.

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITE REQUISE	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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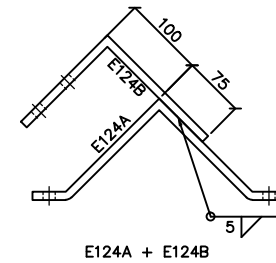
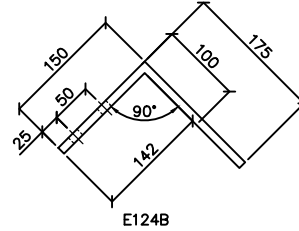
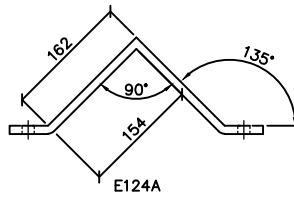
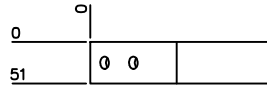
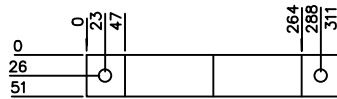


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No	REVISION	DATE
	 Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard

QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT	QTY	MRK	DESCRIPTION	LENGTH	GRADE	REMARK	WEIGHT
QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE	QTÉ	MQE	DESCRIPTION	LONG.	NUANCE	REMARQUE	MASSE
1	E123	FB 9.53 X 51	390	300W									

STEEL TOWERS / TOURS D'ACIER			
MATERIAL:	G40.21M	HOLES:	9/16" Ø
MATÉRIEL:		TROUS:	9/16" Ø
U.N.:		S.N.:	
FINISH:		DATE:	2010/05/12
FINI:		DESSIN:	
DRAWN:	I.T.G.	CHECKED:	
DESSINÉ:		VÉRIFIÉ:	
SCALE:	1 = 5	FILE:	08990-SA
ÉCHELLE:		DOSSIER:	
		DRAWING:	E123/0
		DESSIN:	

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITE REQUISE	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15

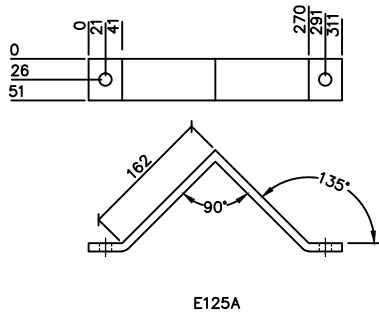


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No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard

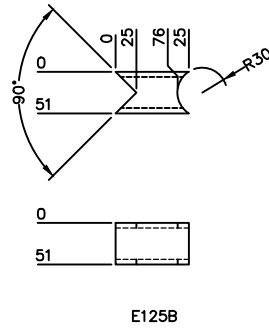
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1	E124A	FB 9.53 X 51	402	300W									
1	E124B	FB 9.53 X 51	308	300W									

STEEL TOWERS / TOURS D'ACIER			
MATERIAL: MATÉRIEL:	G40.21M	HOLES: TROUS:	9/16" Ø
U.S. FINISH: FINIS:		S.W. FINISH: FINIS:	GALV.
DRAWN: DESSINÉ:	I.T.G.	CHECKED: VÉRIFIÉ:	DATE: 2010/05/12
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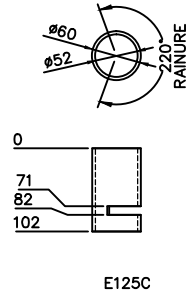
HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITE REQUISE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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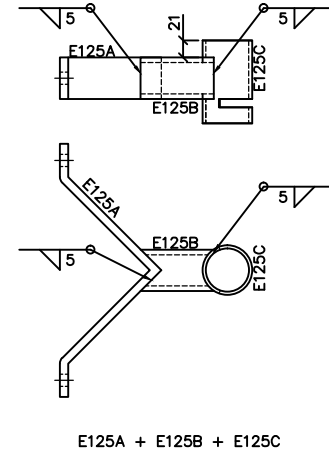
E125A



E125B



E125C

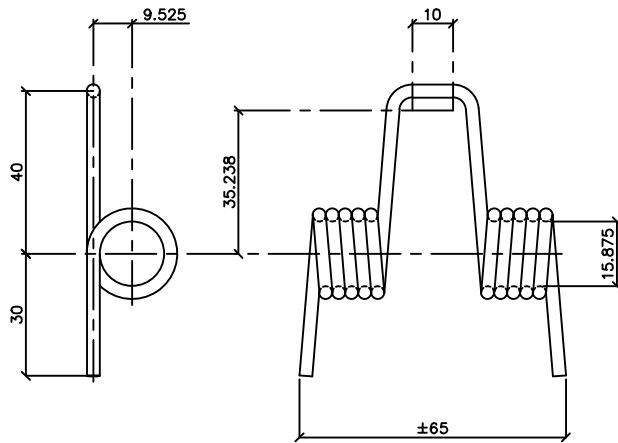


E125A + E125B + E125C

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1	E125A	FB 9.53 X 51	406	300W									
1	E125B	HSS 51X51 X 6.4	90	300W									
1	E125C	HSS 60Ø X 4	102	300W									

No	REVISION	DATE					
	Pêches et Océans Canada Garde côtière	Fisheries and Oceans Canada Coast Guard					
STEEL TOWERS / TOURS D'ACIER							
MATERIAL:	G40.21M	HOLE:	9/16"Ø	U.N.:	S.N.	FINISH:	GALV.
DRWNG:	I.T.G.	CHECKED:		DATE:	2010/05/12	FILE:	08990-SA
DESIGNÉ:		VÉRIFIÉ:		DATE:		DOSSIER:	
SCALE:	1 = 5	FILE:	08990-SA	DRAWING:	E125/0		
ÉCHELLE:		DOSSIER:		DESSIN:			

HEIGHT OF TOWER / HAUTEUR DE LA TOUR	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'
QUANTITY REQUIRED / QUANTITÉ REQUISE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ERECTION DRAWING / DESSIN DE MONTAGE	08990-SM-01	08990-SM-02	08990-SM-03	08990-SM-04	08990-SM-05	08990-SM-06	08990-SM-07	08990-SM-08	08990-SM-09	08990-SM-10	08990-SM-11	08990-SM-12	08990-SM-13	08990-SM-14	08990-SM-15



WEIGHT / MASSE: 0.05 Kg

QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE	QTY QTÉ	MRK MQE	DESCRIPTION	LENGTH LONG.	GRADE NUANCE	REMARK REMARQUE	WEIGHT MASSE
1	M122	● 3.18 ∅ X	±755	304SS	SPRING/RESSORT	0.05							

-	-	-
No	REVISION	DATE
	Pêches et Océans Canada	Fisheries and Oceans Canada
	Garde côtière	Coast Guard
	DESSIN MICHEL VACHON INC. DESSIN DE STRUCTURES METALLIQUES TÉLÉPHONE: (418) 636-8386 TÉLÉCOPIER: (418) 636-7988	
STEEL TOWERS / TOURS D'ACIER		
MATERIAL: MATÉRIEL:	ANSI	HOLE: TROUS:
DRAWN: DESSINÉ:	M. VACHON	CHECKED: VÉRIFIÉ:
SCALE: ÉCHELLE:	1 = 1	DATE: DATE:
	FILE: DOSSIER:	08990-SA
	DRAWING: DESSIN:	M122



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Canadian
Coast Guard

Garde côtière
canadienne



APPENDIX B4 – GEOTECHNICAL INFORMATION



BOREHOLE No.: BH1
ELEVATION:* 98.07 m

BOREHOLE REPORT

Page: 1 of 1

CLIENT: Fisheries and Oceans Canada

PROJECT: Proposed Aid to Navigation Structure / Tower

LOCATION: Port McNicoll Rear Range, Near Midland, Ontario

DESCRIBED BY: R. Khabbaznia CHECKED BY: F. Bagheri

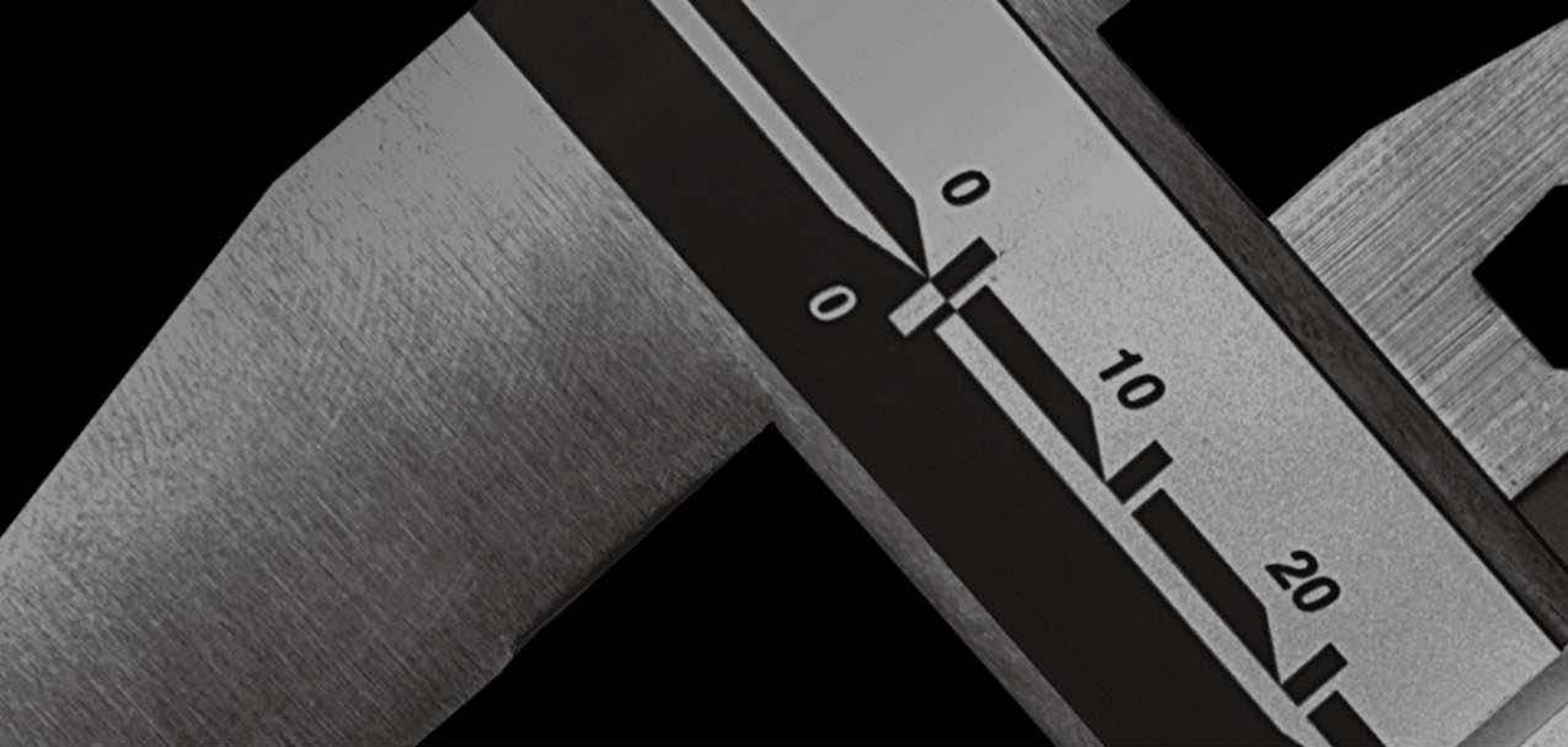
DATE (START): August 10, 2012 DATE (FINISH): August 10, 2012

LEGEND

- ☒ SS - SPLIT SPOON
- ▨ ST - SHELBY TUBE
- ▮ AU - AUGER PROBE
- ▼ - WATER LEVEL

Depth	Elevation (m)		Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	Moisture Content	Blows per 6 in. / 15 cm or RQD	Penetration Index	Shear test (Cu) Sensitivity (S)		Water content (%)		Atterberg limits (%)		"N" Value (blows / 12 in.-30 cm)		
	Feet	Metres									Field	Lab	w _p	w _L	U _c	U _L	N	10	20
		98.07		GROUND SURFACE			%				N								
1	0.06	98.01	▨	TOPSOIL with VEGETATION : 60 mm FILL : SILTY SAND, some gravel to sand and gravel, trace rootlets and topsoil, dark brown to greyish brown, moist, loose	▨	SS-1	42	9	2-2-3-5	5	●								
3	0.76	97.31	▨	Greyish brown, cobble pieces (Possible disturbed native)	▨	SS-2	42	2	3-5-4-4	9	○								
6	1.52	96.55	▨	NATIVE : SAND and GRAVEL, greyish brown, moist, compact	▨	SS-3	58	3	4-8-12-15	20	○								
8	2.29	95.78	▨	SANDY SILT TILL, trace to some gravel, trace clay, cobble pieces, grey, moist, dense	▨	SS-4	94	8	15-21-24-25	45	○								
11	3.05	95.02	▨	Auger grinding, trace to some clay	▨	SS-5	94	8	20-26-30-30	56	○								
12	3.66	94.41		END OF BOREHOLE															
				<p>NOTE : End of Borehole at 3.66 m bgs Borehole was found to be open and dry upon completion bgs denotes below ground surface *Elevation: Local Top of the existing gate post on the west side (assumed 100m)</p>															

SOIL LOG WITH GRAPH+WELL T050159A1.GPJ INSPEC_SOL.GDT 8/27/12



REPORT: T050159A1

FISHERIES AND OCEANS CANADA
Geotechnical Investigation Report
Proposed Aid to Navigation Tower/Structure
LL867 Port McNicoll Rear Range
Near Midland, Ontario

August 31, 2012



Waterloo, August 31, 2012

Mr. Blair Young
Fisheries and Oceans Canada
520 Exmouth Street
Sarnia, Ontario N7T 8B1

Subject: Geotechnical Investigation Report
T050159A1
Proposed Aid to Navigation Tower (ATON) Structure
LL867 Port McNicoll Rear Range, Near Midland, Ontario

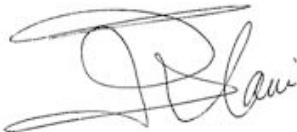
Dear Mr. Young;

In accordance with your request, Inspec-Sol has conducted a geotechnical investigation at the above-noted site and is pleased to present our report.

We trust that this information meets with your approval. Please do not hesitate to contact us, should any questions arise.

Yours very truly,

INSPEC-SOL INC.



Hassan Gilani. M.Sc., P. Eng.
Senior Geotechnical Engineer

HG/cr/1

FISHERIES AND OCEANS CANADA

**Geotechnical Investigation Report
Proposed Aid to Navigation Tower/Structure
LL867 Port McNicoll Rear Range
Near Midland, Ontario**

Date : **August 31, 2012**

Our Ref. : **T050159a1**

**FISHERIES AND OCEANS CANADA
520 Exmouth Street
Sarnia, Ontario N7T 8B1**

**Geotechnical Investigation Report
Proposed Aid to Navigation Tower/Structure
LL867 Port McNicoll Rear Range
Near Midland, Ontario**

T050159a1

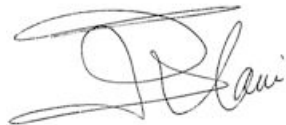
August 31, 2012

Prepared by :



Farsheed Bagheri, P.Eng.

Approved by :



Hassan Gilani. M.Sc., P. Eng.

**Distribution : Fisheries and Oceans Canada- Mr. Blair Young
(Copy by e-mail)**

Respect for the environment and the preservation of our natural resources are priorities for Inspec-Sol Inc. With this in mind, we print our documents double-sided on 50 % recycled paper.

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Figure 2	Borehole Location Plan
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Appendix 2	Soil Analytical Laboratory Test Results

1.0 INTRODUCTION

Inspec-Sol Inc., (Inspec-Sol) has been retained by the Department of Fisheries and Oceans Canada (DFO) to conduct a geotechnical investigation for the proposed Aid to Navigation Tower (ATON) Structure located at LL867 Port McNicoll Rear Range (Site), Near Midland, Ontario. The Site location is shown on the location map included as Figure 1.

The authorization for the geotechnical investigation was provided through the DFO Purchase Order No. 2563-120041.

The purpose of the geotechnical investigation was to determine the subsurface soil and groundwater conditions within the footprint of the proposed ATON structure. This report contains a description and findings of our geotechnical investigation, as well as professional opinions and recommendations regarding subsurface conditions and the design and construction of the proposed foundation system.

2.0 PROJECT DESCRIPTION

The Site is located on the east side of Triplebay Drive, on the north side of Rangelight Road. An existing tower is located inside a fenced area on Site. An approximate Site layout plan based on field measurements is included as Figure 2.

Based on the information provided by DFO and Canadian Coast Guard (CCG), Central and Arctic Region, it is understood that DFO and CCG is planning to construct a new antenna tower with hot dipped galvanized structure. A review of the Fabrication Detail (Drawing 4892.960.102-1, dated November 14, 2000), provided in Appendix C of the Request for Quotation (RFQ) dated July 20, 2012, shows that the height of the proposed tower will be 18.29 m (60 ft). The proposed tower structure will be erected in close proximity of the existing tower on the Site.

3.0 FIELD AND LABORATORY WORK PROCEDURES

The scope of work (SOW) for the geotechnical investigation for the proposed ATON structure was specified by DFO in the RFQ to comprise one borehole to a depth of 3 metres (m) below the existing ground surface (bgs) or auger refusal, whichever is earlier.

Inspec-Sol obtained underground utility clearance in the general Site area through Ontario One Call, and Hydro One. Services of a private utility locator were also engaged. At the time of investigation the fenced area was locked and inaccessible. The DFO on-Site representative directed Inspec-Sol to advance the borehole outside the fenced area close to the existing tower at the approximate location shown on Figure 2. The private utility locator hired by Inspec-Sol scanned the selected location for the presence of underground utilities and cleared the area. The subsequent drilling operations were completed in the presence of the DFO representative.

Walker Drilling Inc., a specialist drilling subcontractor, advanced borehole BH-1 on August 10, 2012 using a propane powered Geoprobe® track mounted rig. The borehole was installed under the full time supervision of Inspec-Sol's geotechnical staff to the depth of 3.7 m bgs, who logged the borehole and observed groundwater conditions during and upon completion of the borehole. Continuous disturbed samples of the strata penetrated were obtained utilizing a 50 mm diameter split-barrel sampler, advanced by dropping a 63.5 kg hammer from a height of 760 mm, in accordance with the standard penetration test (SPT) method as described in the American Society for Testing and Materials (ASTM) standard ASTM D1586. The results of SPT are reported as 'N' values on the borehole log provided in **Appendix 1** at the corresponding depths. The borehole was backfilled with bentonite pellets and auger cuttings in accordance with O. Reg. 903. Subsurface soil and groundwater conditions encountered at the borehole location are shown on the borehole log provided in **Appendix 1**.

The borehole ground elevation was found to be 98.07 m above site datum (ASD) with reference to a temporary Site datum set at the top of the existing gate post on the west side of the gate. The temporary bench mark was assigned an assumed elevation of 100 m. It should be noted that the measuring point elevations may change, as the gate post is susceptible to movements due to thermal stresses and other forces.

Upon completion of the field investigation program, the soil samples obtained were sealed in clean, airtight containers and transferred to the Inspec-Sol laboratory in Mississauga,

Ontario, where they were re-examined by a geotechnical engineer to confirm the field descriptions. The geotechnical laboratory testing consisted of moisture content tests on all recovered soil samples. The results of the moisture content determinations are recorded at their corresponding depths on the borehole log provided in **Appendix 1**.

One soil sample was analyzed for chemical properties to determine the potential for corrosion of buried steel structures and potential of sulphate attack on below-grade concrete structures. The soil sample was submitted under chain-of-custody to AGAT Laboratories (an accredited laboratory by the Canadian Association for Laboratory Accreditation – CALA). The analytical test results are discussed in Section 5.8 and the laboratory test result sheets are provided in **Appendix 2**.

4.0 GEOLOGY AND SUBSURFACE CONDITIONS

Based on our experience in the general Site area and a review of the Quaternary geology map¹ shows that the Site is located in a beveled till plain, with the glacial till comprised of silty sand/sandy silt rich in Paleozoic rock fragments. The Paleozoic bedrock is anticipated to be more than 30 m below the existing grades in the general Site area.

Details of the subsurface conditions encountered at the Site at the borehole location are summarized in the following sections of the report. The detailed borehole log is provided in **Appendix 1**. It should be noted that the subsurface conditions are only confirmed at the borehole location and may vary beyond the borehole location. The boundaries between the various strata, as shown on the borehole log are based on non-continuous sampling and observations of drilling resistance at the drilled borehole location. These boundaries represent an inferred transition between the various strata, rather than precise planes of geological change.

4.1 Ground Cover

A very thin approximately 60 mm thick layer of topsoil with vegetation and organics was encountered at the ground surface in BH1.

¹ Bajc, A. F. and Paterson, J. T., (1992): Quaternary geology of the Penetanguishene and Christian Island areas, southern Ontario; Ontario Geological Survey, Open File Map 194, Scale 1:50,000.

4.2 Fill Silty Sand to Sand and Gravel

A fill deposit comprised of silty sand, some gravel, trace silt and containing rootlets, probably disturbed native, was encountered beneath the surficial topsoil and vegetation, and extended to a depth of 1.5 m bgs. The sand and gravel contains occasional cobbles and a trace of silt.

The SPT 'N' values in the Silty Sand to Sand and Gravel deposit ranged from 5 to 9 blows per 300 mm of penetration indicating a loose state.

The natural moisture content of the native sand and gravel ranged from 2 percent to 9 percent, indicating moist conditions.

4.3 Native Deposits

4.3.1 Sand and Gravel

A stratum of Sand and Gravel, trace silt was encountered beneath the fill/disturbed native materials in BH1 and extended to the depth of 2.3 m bgs.

The SPT 'N' value of 20 blows per 300 mm of penetration was recorded in the sand and gravel deposits indicating a compact state.

The natural moisture content of samples obtained from the sand and gravel deposit was measured to be 3 percent, indicating damp-moist conditions.

4.3.2 Sandy Silt Till

Underlying the native sand and gravel deposit, a deposit of native Sandy Silt till, trace clay and gravel was encountered that continued to the termination depth of borehole at 3.66 m bgs.

The SPT 'N' values of 45 and 56 blows per 300 mm of penetration were recorded in the native Sandy Silt till deposits indicating a dense to very dense compactness of the deposit.

The natural moisture content of the two samples obtained from the sandy silt deposits was measured at 21 percent and 17 percent, respectively, indicating moist-wet to moist conditions.

4.4 Groundwater

Groundwater observations were made during advancement and upon completion of borehole. The borehole remained dry upon completion.

Seasonal groundwater conditions can develop in the Site soils especially in the fill and sand and gravel deposits in response to weather events such as spring thaw and precipitation events. The groundwater levels tend to fluctuate with seasonal conditions, and periods of precipitation

5.0 DISCUSSION AND RECOMMENDATIONS

5.1 General

The purpose of this geotechnical investigation was to determine the subsurface soil and groundwater conditions at the proposed tower structure location and to provide geotechnical design and construction recommendations for the proposed tower.

Based on our understanding of the project, discussed in Section 2.0, and the subsurface soil and groundwater conditions at the borehole location, the following geotechnical design and construction recommendations are provided for the proposed structure. The geotechnical design and construction recommendations in the following sections are provided for the guidance of the design engineer. Contractors bidding on or undertaking the works should decide on their own investigation, and their own interpretation of the factual borehole result, so that they may draw their own conclusions how the sub-surface conditions may affect them.

5.2 Foundation Options

The proposed tower is expected to be a lightly loaded structure that could be subjected to significant wind forces. The major factor governing the design of a footing system supporting the proposed structure is therefore expected to be the lateral wind forces. The recommendations for three foundation systems are provided in the following sections.

5.3 Shallow Pad Foundation

A review of the Ontario Provincial Standard (OPS) Drawing OPSD – 3400.011 shows that minimum 1.6 m earth-cover is required, in the general Site area, to protect a footing against frost (**frost depth**). The ATON structure footing can therefore be placed on approved undisturbed and properly dewatered, native sand and gravel subgrade approved by the geotechnical engineer at a minimum depth of 1.8 m bgs. The footing placed on the approved undisturbed sand and gravel deposits can be designed for an allowable net bearing pressure/soil resistance of 200 kPa (4,177 psf) for a Service Limit State (SLS) design, to limit the total settlement to 25 mm, and 300 kPa (6,266 psf) for a factored ($\Phi=0.5$) Ultimate Limit State (ULS) design.

The shallow pad foundation installed in accordance with this recommendation should be provided with at least 1.6 m of earth cover or equivalent insulation for frost protection. If construction proceeds during freezing weather conditions, adequate temporary frost protection for the footing base and concrete must be provided by means of loose straw and tarpaulins, heating, etc, to provide for proper curing of the concrete.

The footing pad depth and its size are expected to be governed by the lateral wind forces. The soil parameters for shear strength and lateral design are provided in Section 5.3.

The base of all foundation excavations must be inspected by qualified geotechnical personnel prior to pouring concrete, to confirm the design bearing pressures with respect to soil conditions encountered.

5.3.1 Cast-in-Place Pile/Caisson

For the installation of cast-in-place drilled pile/caisson use of a temporary steel liner will be required in order to prevent caving in and neck formation of the drilled hole in the relatively unstable sand and gravel deposits in the upper zone, and to cut off groundwater seepage from these deposits and sandy silt till deposits.

If the use of a temporary steel liner is considered non-feasible, auger cast piles can be used. Auger-cast piles are constructed by augering to the required bearing depth, using a continuous flight hollow-stem auger in a continuous downward movement. Soil travels upward as the auger rotates, keeping the flights full of soil cuttings. Once the required depth is achieved, concrete is pumped under pressure through the interior of the hollow stem auger to the pile tip. The auger is slowly withdrawn and concrete is continuously pumped, ensuring

there is no open, unsupported hole at any location in the vertical profile. Perched water, if encountered, could flow down the auger, however, the upward movement of soil at all times and the advance of the rising concrete minimizes water infiltration. A concrete head of at least 1 m should be maintained inside the hollow stems (auger-cast pile) or steel liner (drilled pile), at the time of concreting, in order to avoid voids and neck formation.

It is recommended that the pile foundation should be bearing into the competent native stratum at the shallowest depth of 2.6 m bgs. The cast-in-place concrete pile supported at the depth of 2.6 m bgs can be designed for an axial compression of 600 kPa for SLS design and 750 kPa for a factored ($\Phi = 0.4$) for a ULS design. The uplift capacity of the pile can be calculated using 18 kPa for SLS design and 22 kPa for a factored ($\Phi = 0.4$) ULS design, plus the dead weight of the pile.

The above-recommended SLS axial compression capacity values correspond to an allowable settlement of 12 mm. The SLS and ULS values are based on the assumption that pre-cast driven or cast-in-place concrete pile will be set at a depth of at least 2.6 m bgs into the hard clay deposits.

The pile must be installed under geotechnical supervision to ensure that the pile is constructed in accordance with the above recommendations.

The lateral capacity of a single pile can be estimated using a horizontal modulus of subgrade reaction values of 60,000.

5.3.2 Helical Pile

Given the presence of sand deposits at the Site, the use of helical piles may be a suitable option for the relatively lightly loaded Pipe Mast. Since the helical pile system is a proprietary system, it is recommended that the piers be designed and installed by an experienced design-build contractor. The allowable axial (compression and uplift), and lateral capacity should be confirmed in writing by the installer.

For preliminary design purposes a single helical pier with a series of 250 mm, 300 mm and 350 mm helix combination can be designed for a typical allowable axial pile capacity of 100 kN. The helical pile(s) should be torqued to the required capacity. The helical piles should be installed in the presence of the Geotechnical Engineer to confirm that the appropriate torque has been achieved.

In order to provide for increased lateral stability, we recommend that the helical pile shaft be installed inside a PVC casing (minimum 150 mm diameter) and the interior of the casing grouted on completion.

5.3.3 Adfreeze Forces

Based on the Canadian Foundation Manual (4th Edition) uplift forces due to sandy soils similar to those encountered at the Site freezing against concrete can exceed 100 kPa. It is therefore recommended that the top 1.6 m of the cast-in-place pile should be isolated from the surrounding soils by using a sonotube wrapped with poly material stapled at seams or other suitable means. Subsequently the top 1.6 m length of the pile must not be considered while computing the axial compression or uplift capacity of the pile. It is our understanding that pile caps will not be used, however if a pile cap is used, it should be totally supported on the pile and must not be in contact with the ground surface so that it is not subjected to uplift pressures due to ground heave.

5.4 Lateral Forces

The pad footing can be designed for lateral forces using the following soil parameters:

Soil	ϕ	γ (kN/m ³)	K_a	K_o	K_p
Compacted Granular backfill and on-Site sand and gravel deposits	32	21	0.31	0.47	3.25
Native very dense sandy silt soils	36	22	0.26	0.41	3.85

The resistance to sliding can be calculated using the friction factor of 0.7 for the interface between the footing and the native undisturbed soil strata, approved by the geotechnical engineer.

5.5 Seismic Site Class

The 2006 Ontario Building Code (2006 OBC) requires the assignment of a Seismic Site Class for calculations of earthquake design forces and the structural design based on a two percent probability of exceedance in 50 years. According to the 2006 OBC, the Seismic Site Class is a function of soil profile, and is based on the average properties of the subsoil strata

to a depth of 30 m below the ground surface. The 2006 OBC provides the following three methods to obtain the average properties for the top 30 m of the subsoil strata:

- ◆ Average shear wave velocity;
- ◆ Average Standard Penetration Test (SPT) values (uncorrected for overburden); or
- ◆ Average undrained shear strength.

Based on the results of the recent geotechnical investigation, the borehole extend to a maximum depth of 3.7 m bgs only and the subsurface profile below this depth is not known. For a preliminary design purposes, based on the criteria listed in Table 4.1.8.4.A. of the 2006 OBC and our knowledge of the regional geology, a Seismic Site Class 'D' can be used.

5.6 Excavations and Groundwater Control

5.6.1 Excavations

Excavations must be carried out in accordance with the Occupational Health and Safety Act and Regulations for Construction Projects. These regulations designate four broad classifications of soils to stipulate appropriate measures for excavation safety. The undisturbed cohesive and cohesionless soil deposits found at this Site are considered generally as a Type 3 soil.

Where workmen must enter a trench or excavation carried deeper than 1.2 m, the trench or excavation must be suitably sloped and/or braced in accordance with the regulation requirements. The regulation stipulates maximum slopes of excavation by soil type as follows:

Maximum Slope Inclinations

Soil Type	Base of Slope	Maximum Slope Inclination
1	Within 1.2 metres of bottom of trench	1 horizontal to 1 vertical
2	Within 1.2 metres of bottom of trench	1 horizontal to 1 vertical
3	From bottom of trench	1 horizontal to 1 vertical
4	From bottom of trench	3 horizontal to 1 vertical

The sand and gravel deposits, and the underlying very dense to dense till soils encountered at the borehole location can be classified as Type 3 soils respectively, when not affected by the groundwater seepage, in accordance with the OSHA regulations. For an excavation carried out below the groundwater table without dewatering, the soils must be considered as Type 4. Section 226 of the OSHA Regulations specifies maximum slope inclination of 1 horizontal to 1 vertical (1H:1V) for a Type 3 soil to the bottom of an excavation, 1H:1V slope up to 1.2 m from the bottom of an excavation, and 3H:1V slope to the bottom of an excavation for a Type 4 soil.

Minimum support system requirements for steeper excavations are stipulated in Sections 235 through 238 and 241 of the Act and Regulations and include provisions for timbering, shoring and moveable trench boxes.

Excavations for the proposed Tower foundation at this Site will probably encounter cobbles and possible boulder. The frequency and distribution of these cobbles and boulders within the native sand and gravel deposit is unpredictable. Excavations carried out using mechanical excavators may be slow if significant amounts of cobbles and boulders are encountered. The risk and responsibility for these issues must be addressed in the contract documents for foundation and excavation contractors.

5.6.2 Dewatering

Based on the borehole investigation, significant groundwater infiltration is not expected in the shallow excavations anticipated for raft foundation and underground utility construction. Perched groundwater seepage, if encountered, should be controlled by conventional sump pump methods provided with a filter liner in order to prevent migration of fines. Surface water should be directed away from open excavations. Spoil piles should be kept a minimum of 1.0 m away from the top of any excavation to prevent excess loading on excavation sidewalls.

The borehole was found to be dry at completion of investigation. However excavation for a pad footing is expected to be 1.8 m deep, groundwater seepage should be expected especially if construction occurs during spring thaw or after a wet weather event. If the depth of excavation below the groundwater table is in the order of 0.5 m or less, the groundwater seepage can be controlled using the filtered sump pumps. The sump pits must be lined with a geotextile filter fabric held in place by 19 mm clear stone. The pump inlet must be set in the clear stone such that dewatering occurs only through the geotextile filter fabric.

Excavations carried deeper below the groundwater table in sandy soil will require positive dewatering. A specialist dewatering contractor should provide dewatering recommendations based on the depth of excavation, and anticipated groundwater conditions. For dewatering below the groundwater table only the filtered dewatering methods must be used. Unfiltered techniques will cause migration of soil fines, loosening the soil strata from their existing state of compactness, and consequent reduction in soil bearing capacity.

Surface water should be drained away from the open excavations.

5.7 Backfilling

Backfilling of excavations can be accomplished by reusing the excavated soils or similar fill material provided the moisture content is maintained within 2 percent of optimum. Backfill materials used for site grading or backfilling should be placed in thin lifts not exceeding 200 mm and thoroughly compacted using a sheeps foot roller to a minimum of 95 percent SPMDD. Care will be required to separate these materials from the Site stockpiles. Cobbles and boulders in excess of 150 mm diameter should be excluded from the soils used as backfill material.

All excavations must be widened sufficiently to accommodate the appropriate compaction equipment. Provided the trenches are backfilled with materials similar to the adjacent subgrade soils then frost tapers will not be required.

Backfilling operations should be carried out with the following minimum requirements:

- ◆ adequate heavy vibratory compaction equipment is used to compact the material;
- ◆ loose lift thickness should not exceed 200 mm;
- ◆ the soils be at suitable moisture contents to achieve compaction to at least 95 percent SPMDD or in settlement sensitive areas to at least 98 percent SPMDD; and
- ◆ General backfill materials to consist of earth fill comprised of inorganic soils, with no particle sizes greater than 150 mm, and containing no topsoil, organics, or other deleterious materials.

5.8 Corrosion Potential

Analytical testing was carried out on one soil sample recovered from 1.5 m to 2.1 m bgs in order to determine corrosion potential of the subsurface soils. The sand and gravel soil

sample was tested for pH, resistivity, sulphides, sulphate, and redox potential. The test results are summarized in the following table. The detailed laboratory analytical report is provided in **Appendix 2**.

Sample ID	BH-1 (SS-3)
Depth (m bgs)	1.5 to 2.1
pH	8.80
Redox Potential (mV)	270
Resistivity (ohm-cm)	11100
Sulphide (%)	0.01
Sulphate (Kg/g)	5.2
Chloride (Kg/g)	4

The American Water Works Association (AWWA) publication 'Polyethylene Encasement for Ductile-Iron Pipe Systems' ANSI/AWWA C105/A21.5-10 dated October 1, 2010 assigns points based on the results of the above tests. A soil that has a total point score of 10 or more is considered to be potentially corrosive to ductile iron pipe. Based on the results obtained for the sample submitted, only one point can be assigned due to continuously wet conditions caused by the shallow groundwater table. The results, however, indicate non corrosive conditions, therefore the Site soils, represented by the analyzed sample, are not considered to be potentially corrosive.

Table 3 of the Canadian Standards Association (CSA) document A23.1-04/A23.2-04 'Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete' divides the degree of exposure into the following three classes:

Degree (Class) of Exposure	Water Soluble (SO ₄) in Soil Sample (%)
Very Severe (S-1)	> 2.0
Severe (S-2)	0.20 – 2.0
Moderate (S-3)	0.10 – 0.20

A review of the analytical test results shows the sulfate content in the tested samples was found to be less than 0.002 percent, which was the detection limit of the test. In view of the test results, the degree of exposure of the subsurface concrete structures to sulphate attack is low. Therefore normal Portland cement can be used for the below grade concrete structures.

6.0 LIMITATIONS OF THE INVESTIGATION

This report is intended solely for Fisheries and Oceans Canada, Canadian Coast Guard and other party/parties explicitly identified in the report, and is prohibited for use by others without Inspec-Sol's prior written consent. This report is considered Inspec-Sol's professional work product and shall remain the sole property of Inspec-Sol. Any unauthorized reuse, redistribution of or reliance on the report shall be at the Client and recipient's sole risk, without liability to Inspec-Sol. Client shall defend, indemnify and hold Inspec-Sol harmless from any liability arising from or related to Client's unauthorized distribution of the report. No portion of this report may be used as a separate entity; it is to be read in its entirety and shall include all supporting drawings and appendices.

The recommendations made in this report are in accordance with our present understanding of the project, the current site use, ground surface elevations and conditions, and are based on the work scope approved by the Client and described in the report. The services were performed in a manner consistent with that level of care and skill ordinarily exercised by members of geotechnical engineering professions currently practicing under similar conditions in the same locality. No other representations, and no warranties or representations of any kind, either expressed or implied, are made. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties.

All details of design and construction are rarely known at the time of completion of a geotechnical study. The recommendations and comments made in the study report are based on our subsurface investigation and resulting understanding of the project, as defined at the time of the study. We should be retained to review our recommendations when the drawings and specifications are complete. Without this review, Inspec-Sol will not be liable for any misunderstanding of our recommendations or their application and adaptation into the final design.

By issuing this report, Inspec-Sol is the geotechnical engineer of record. It is recommended that Inspec-Sol be retained during construction of all foundations and during earthwork operations to confirm the conditions of the subsoil are actually similar to those observed during our study. The intent of this requirement is to verify that conditions encountered during construction are consistent with the findings in the report and that inherent knowledge developed as part of our study is correctly carried forward to the construction phases.

It is important to emphasize that a soil investigation is, in fact, a random sampling of a site and the comments included in this report are based on the results obtained at the test location only [Borehole BH1]. The subsurface conditions confirmed at the one (1) borehole location may vary at other locations. The subsurface conditions can also be significantly modified by the construction activities on site (ex. excavation, dewatering and drainage, blasting, pile driving, etc.). These conditions can also be modified by exposure of soils or bedrock to humidity, dry periods or frost. Soil and groundwater conditions between and beyond the test locations may differ both horizontally and vertically from those encountered at the test locations and conditions may become apparent during construction which could not be detected or anticipated at the time of our investigation. Should any conditions at the site be encountered which differ from those found at the test locations, we request that we be notified immediately in order to permit a reassessment of our recommendations. If changed conditions are identified during construction, no matter how minor, the recommendations in this report shall be considered invalid until sufficient review and written assessment of said conditions by Inspec-Sol is completed.

We trust that this report meets with your present requirements. Please do not hesitate to contact us should any questions arise.

Figures

- ◆ Figure 1: Site Location Map
- ◆ Figure 2: Borehole Location Plan



Source: ESRI Topographic Basemap, accessed 2012;
 Coordinate System: NAD 1983 UTM Zone 18N

SITE LOCATION MAP

**GEOTECHNICAL INVESTIGATION REPORT
 PROPOSED AID TO NAVIGATION TOWER/STRUCTURE
 LL867 PORT MCNICOLL REAR RANGE, NEAR MIDLAND, ONTARIO
 FISHERIES AND OCEANS CANADA
 Dwg. No. T050159a1-1**



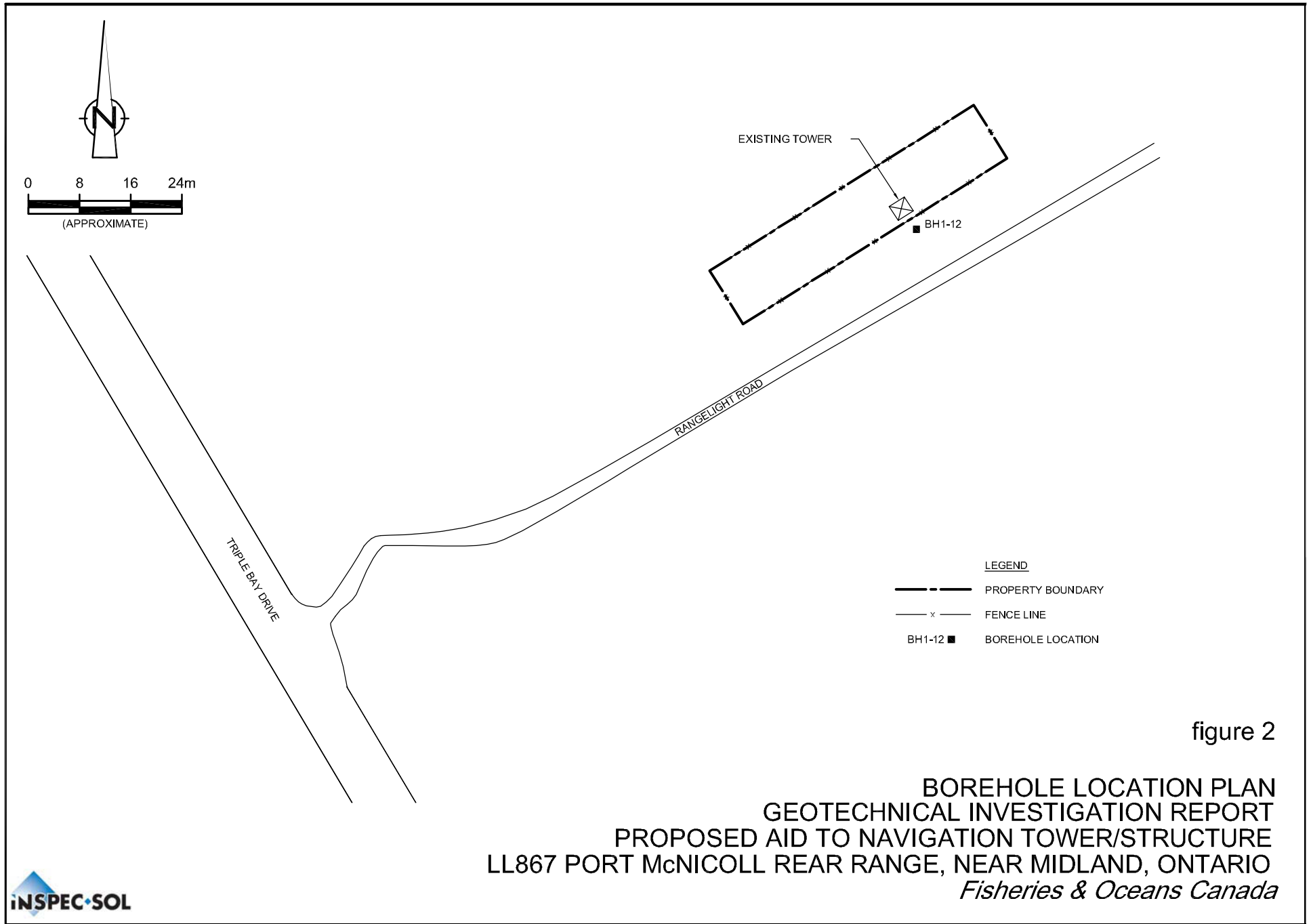


figure 2

BOREHOLE LOCATION PLAN
 GEOTECHNICAL INVESTIGATION REPORT
 PROPOSED AID TO NAVIGATION TOWER/STRUCTURE
 LL867 PORT McNICOLL REAR RANGE, NEAR MIDLAND, ONTARIO
Fisheries & Oceans Canada

Appendix 1

- ◆ Borehole Log
- ◆ Soil Description Terminology



BOREHOLE No.: BH1
ELEVATION:* 98.07 m

BOREHOLE REPORT

Page: 1 of 1

CLIENT: Fisheries and Oceans Canada

PROJECT: Proposed Aid to Navigation Structure / Tower

LOCATION: Port McNicoll Rear Range, Near Midland, Ontario

DESCRIBED BY: R. Khabbaznia CHECKED BY: F. Bagheri

DATE (START): August 10, 2012 DATE (FINISH): August 10, 2012

LEGEND

- ☒ SS - SPLIT SPOON
- ▨ ST - SHELBY TUBE
- ▮ AU - AUGER PROBE
- ▼ - WATER LEVEL

Depth	Elevation (m)		Stratigraphy	DESCRIPTION OF SOIL AND BEDROCK	State	Type and Number	Recovery	Moisture Content	Blows per 6 in. / 15 cm or RQD	Penetration Index	Shear test (Cu) Sensitivity (S)		Water content (%)		Atterberg limits (%)		"N" Value (blows / 12 in.-30 cm)		
	Feet	Metres									Field	Lab	w _p	w _L	U _c	U _L	N	10	20
		98.07		GROUND SURFACE			%				N								
1	0.06	98.01	▨	TOPSOIL with VEGETATION : 60 mm FILL : SILTY SAND, some gravel to sand and gravel, trace rootlets and topsoil, dark brown to greyish brown, moist, loose	▨	SS-1	42	9	2-2-3-5	5	●								
3	0.76	97.31	▨	Greyish brown, cobble pieces (Possible disturbed native)	▨	SS-2	42	2	3-5-4-4	9	○								
6	1.52	96.55	▨	NATIVE : SAND and GRAVEL, greyish brown, moist, compact	▨	SS-3	58	3	4-8-12-15	20	○								
8	2.29	95.78	▨	SANDY SILT TILL, trace to some gravel, trace clay, cobble pieces, grey, moist, dense	▨	SS-4	94	8	15-21-24-25	45	○								
11	3.05	95.02	▨	Auger grinding, trace to some clay	▨	SS-5	94	8	20-26-30-30	56	○								
12	3.66	94.41		END OF BOREHOLE															
<p>NOTE : End of Borehole at 3.66 m bgs Borehole was found to be open and dry upon completion bgs denotes below ground surface *Elevation: Local Top of the existing gate post on the west side (assumed 100m)</p>																			

SOIL LOG WITH GRAPH+WELL T050159A1.GPJ INSPEC_SOL.GDT 8/27/12

SOIL DESCRIPTIVE TERMINOLOGY

MOISTURE CONDITIONS

<u>TERM</u>	<u>DESCRIPTION</u>
Dry	Seems dry, but contains some moisture; contains no noticeable moisture
Damp	Contains a trace amount of moisture
Moist	Contains a noticeable amount of moisture, but no free water
Moist-wet	Contains free water in a limited quantity
Wet	Contains considerable free water, voids may or may not be water filled

CONSISTENCY

<u>TERM</u>	Undrained Shear <u>Strength (kPa)</u>	<u>"N"-Value</u>
Very Soft	0 to 12	0 to 2
Soft	12 to 25	2 to 4
Firm	25 to 50	4 to 8
Stiff	50 to 100	8 to 16
Very Stiff	100 to 200	16 to 30
Hard	> 200	>30

RELATIVE DENSITY

<u>TERM</u>	<u>"N"-VALUE</u>
Very Loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very Dense	>50

PARTICLE SIZES

<u>TERM</u>	<u>SIEVE SIZES</u>
Boulders	> 300mm (12")
Cobbles	75mm (3") to 300mm (12")
Gravel -Coarse	19mm (3/4") to 75mm (3")
Gravel -Fine	#4 (4.75mm) to 19mm (3/4")
Sand -Coarse	#10(2mm) to #4
Sand -Medium	#40(0.425mm) to #10
Sand -Fine	#200(0.075mm) to #40
Silt & Clay <small>(usually determined by Atterberg Limits)</small>	
Silt	0.002 to 0.075mm
Clay	less than 0.002mm

RELATIVE PROPORTIONS

<u>TERM</u>	<u>RANGE</u>
Trace	0 to 10%
Some	10% to 20%
Minority, Majority	20% to 35%
And	> 35%

Appendix 2

- ◆ Soil Analytical Laboratory Test Results

CLIENT NAME: INSPEC-SOL INC.
111 Brunel Road, Suite 200
MISSISSAUGA, ON L4Z1X3
(905) 712-4771

ATTENTION TO: Farsheed Bagheri

PROJECT NO: T05015901

AGAT WORK ORDER: 12T629623

SOIL ANALYSIS REVIEWED BY: Inesa Alizarchyk, Inorganic Lab Supervisor

DATE REPORTED: Aug 20, 2012

PAGES (INCLUDING COVER): 4

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 12T629623

PROJECT NO: T05015901

5835 COOPERS AVENUE
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1Y2
 TEL (905)712-5100
 FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: INSPEC-SOL INC.

ATTENTION TO: Farsheed Bagheri

Corrosivity Package

DATE SAMPLED: Aug 10, 2012

DATE RECEIVED: Aug 13, 2012

DATE REPORTED: Aug 20, 2012

SAMPLE TYPE: Soil

Parameter	Unit	G / S	RDL	BH-1 SS3
				3601227
Sulphide*	%		0.01	0.01
Chloride (2:1)	µg/g		2	4
Sulphate (25:1)	µg/g		2.0	5.2
pH (2:1)	pH Units		N/A	8.80
Electrical Conductivity (2:1)	mS/cm		0.005	0.090
Resistivity (2:1)	ohm.cm		1	11100
Redox Potential (2:1)	mV		5	270

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

3601227 * Analysis was performed at AGAT's Mining Division.

EC,pH,Chloride,Redox Potential and Sulphate were determined on the extract obtained from the 2:1 extraction procedure (2 parts DI water: 1 part soil).

Certified By:

Quality Assurance

CLIENT NAME: INSPEC-SOL INC.

AGAT WORK ORDER: 12T629623

PROJECT NO: T05015901

ATTENTION TO: Farsheed Bagheri

Soil Analysis															
RPT Date: Aug 20, 2012			DUPLICATE				Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE		MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Measured Value		Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Corrosivity Package

Sulphide*	1		< 0.01	< 0.01	0.0%	< 0.01	99%	80%	120%	NA			NA	
Chloride (2:1)	1	3601227	4	4	0.0%	< 2	101%	80%	120%	94%	80%	120%	92%	70% 130%
Sulphate (25:1)	1	3601227	3.9	4.3	9.8%	< 2.0	94%	70%	130%	97%	70%	130%	94%	70% 130%
pH (2:1)	1	3601227	8.80	8.79	0.1%	N/A	101%	90%	110%	NA			NA	
Electrical Conductivity (2:1)	1	3601227	0.090	0.089	1.1%	< 0.005	93%	90%	110%	NA			NA	
Redox Potential (2:1)	1	3601227	270	265	1.9%	< 5	96%	70%	130%	NA			NA	

Comments: NA - Not Applicable.

Certified By: _____





Method Summary

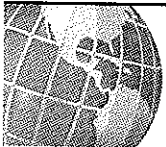
CLIENT NAME: INSPEC-SOL INC.

AGAT WORK ORDER: 12T629623

PROJECT NO: T05015901

ATTENTION TO: Farsheed Bagheri

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Sulphide*	MIN-200-12000	ASTM E1915-07a	LECO C_S
Chloride (2:1)	INOR-93-6004	McKeague 4.12 & SM 4110 B	ION CHROMATOGRAPH
Sulphate (25:1)	INOR-93-6004	McKeague 4.12 & SM 4110 B	ION CHROMATOGRAPH
pH (2:1)	INOR 93-6031	MSA part 3 & SM 4500-H+ B	PH METER
Electrical Conductivity (2:1)	INOR 1036	McKeague 4.12, SM 2510 B	EC METER
Resistivity (2:1)	INOR 1036		CALCULATION
Redox Potential (2:1)		McKeague 4.12 & SM 2510 B	REDOX POTENTIAL ELECTRODE



AGAT Laboratories

SR-3

5835 Coopers Avenue
Mississauga, Ontario
L4Z 1Y2

www.agatlabs.com • webeearth.agatlabs.com

Laboratory Use Only

Arrival Temperature: -7.7/-6.9/-5.8
AGAT WO #: 12T629623
Lab Temperature: ICE
Notes: ICE

Chain of Custody Record

Ph.: 905.712.5100 • Fax: 905.712.5122 • Toll Free: 800.856.6261

Client Information:

Company: INSPEC-SOL INC.
Contact: Farshad Bagheri
Address: Suite 200 111 Brunel Road
MISSISSAUGA
Phone: (905) 712-4771 Fax: (905) 712-0515
Project: T05015901 PO: _____
AGAT Quotation #: _____

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements:

Regulation 153/09 (reg. 511 Amend.) Sewer Use Regulation 558
Table _____ Indicate one Region _____ Indicate one CCME
 Ind/Com Other (specify) _____
 Res/Park Sanitary Prov. Water Quality Objectives (PWQO)
 Agriculture Storm None
Soil Texture (check one)
 Coarse Fine

Turnaround Time Required (TAT) Required*

Regular TAT

5 to 7 Working Days

Rush TAT (please provide prior notification)

Rush Surcharges Apply

3 Working Days

2 Working Days

1 Working Day

OR

Date Required (Rush surcharges may apply): _____

*TAT is exclusive of weekends and statutory holidays

Invoice To:

Same: Yes No

Company: _____
Contact: _____
Address: _____

Is this a drinking water sample?

(potable water intended for human consumption)

Yes No

If "Yes", please use the Drinking Water Chain of Custody Form

Is this submission for a Record of Site Condition?

Yes No

Legend Matrix

GW Ground Water O Oil
SW Surface Water P Paint
SD Sediment S Soil

Report Information - reports to be sent to:

1. Name: Farshad Bagheri
Email: fbagheri@inspecsol.com
2. Name: Mrs Ramachandra
Email: ramachandra@inspecsol.com

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: <input type="checkbox"/> B-HWS <input type="checkbox"/> Cl <input type="checkbox"/> CN <input type="checkbox"/> EC <input type="checkbox"/> FOC <input type="checkbox"/> Cr+6 <input type="checkbox"/> SAR <input type="checkbox"/> NO ₃ /NO ₂ <input type="checkbox"/> N-Total <input type="checkbox"/> Ph <input type="checkbox"/> pH	Nutrients: <input type="checkbox"/> TP <input type="checkbox"/> NH ₃ <input type="checkbox"/> TKN <input type="checkbox"/> NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> NO _x /NO ₃	VOC: <input type="checkbox"/> VOC <input type="checkbox"/> THM <input type="checkbox"/> BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	TCLP	Sewer Use	
<u>BH-1 (SS3) Avg 10.12</u>	<u>Aug 10.12</u>		<u>S</u>	<u>1</u>																		

*Corrosion potential and water soluble sulphide
PH-Redox potential
Resistivity and sulphides*

Samples Relinquished by (print name & sign): A. REZA KHABBAZNIYA

Date/Time

Samples Received by (Print name & sign): David Muzzorcoli

Date/Time

8:45 PM
Pink Copy - Client

Samples Relinquished by (print name & sign):

Date/Time

Samples Received by (Print name & sign):

Date/Time

Yellow + Golden Copy - AGAT

Page ____ of ____

NO: 179832