

1 WORK COVERED BY
CONTRACT DOCUMENTS

- .1 Work of this Contract comprises re-roofing of Building C38 at Correctional Services Canada Centre (CSC) Stony Mountain Institution in Stony Mountain, Manitoba.

1.2 - GENERAL NARRATIVE

1.2.1 Building C-38 originally was utilized as a curling ring within the secure part of Corrections Services Canada, Stony Mountain Institution. This function has changed and several years ago CSC dismantled the structure and moved it outside of the main prison walls. For the past several years the building has been used as an unheated cold and dry storage building. However the metal roof leaks. The original roofing panels were damaged during the previous 'dismantling and reassembly'. The building is approximately 15 meters wide by 45 meters long.

PHOTO # 1 BELOW: View of Building C-38 as seen from the North.





PHOTO #2 ABOVE

Building C-38 as viewed from the East. Note that C-38 is situated within a secure zone of Stony Mountain Institution. Contactor access to the site and contractor operations on site are restricted in accordance with CSC procedures.



PHOTO #3 ABOVE

This photo shows the existing structure of the 15 meters wide by 45 meters long Building C-38 as viewed from the interior consisting of six structural bays defined by seven rigid structural steel frames spanning approximately 15 meters. Steel purlins carry the existing roof sheet metal roof deck.

The scope of work involves upgrading the existing roof. The work shall be implemented in accordance with CSC Stony Mountain Institution's requirements for contractors in a manner that minimizes disruption to the existing use of the building as a storage facility.

2 WORK DESCRIPTION

- .1 Participate in preliminary project meetings. Implement work in accordance with contract requirements.
- .2 Inspect building C38 with contractor's roof consultant and contractor's structural engineer.
- .3 Submit structural investigation report advising Departmental Representative regarding structural capacity of roof to carry loads of proposed new roof components.
- .4 Submit roof inspection investigation report advising Departmental Representative regarding structural capacity of roof to carry loads of proposed new roof components. Reports to define a design solution that will have a service life of twenty five years.
- .5 Submit roof consultant's report advising Departmental Representative regarding detailed design requirements of proposed roof to meet design and performance requirements detailed within the contract documents. Address project design performance requirement for the roof to withstand 130 kilometer per hour winds within roof inspection and engineering reports.
- .6 Prepare detailed shop drawings describing the work the Departmental Representative upon acceptance of structural and roof consultant's report. Shop drawings to include:
 1. Roof plan showing roof layout and location of rainwater gutters, down-pipes, splash-pads.
 2. Construction details at peak, eave, gable end wall showing flashings, new fascia, rainwater gutters, rainwater down-pipes, concrete splash-pads. Indicate construction details utilized to achieve roof tie down in the event of a high (130 kilometer per hour) wind event.
- .7 Repair, secure, make good existing roof components in accordance with recommendations of contractor's engineer

and roofing consultant recommendations.

- .8 Place insulation between the corrugations with to provide a level roof surface.
- .9 Mechanically fasten 15.08 mm (19/32") tongue and groove plywood on to the top of the existing roof metal decking and insulation.
- .10 Mechanically fasten one layer of mod-bit roofing over the plywood. Torch on a second layer of mod-bit over the first layer.
- .11 Add structure and modify the edge condition along the length of the eaves and gable end walls to accommodate a gutter, fascia, rainwater drainage, add a drip edge. Verify that components are fastened in a manner that anticipates and prevents wind uplift.
- .12 Produce inspection reports and photographs on a weekly basis and submit reports to the Departmental Representative.
- .13 Complete the work
- .14 Provide two year warranty on roof.
- .15 Participate with Warranty review.
- .16 Construct Work in stages to accommodate Departmental Representative's continued use of the site and existing surrounding premises during construction.
- .17 Maintain fire access/control.

3 WORK BY OTHERS

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

4 CONTRACTOR USE
OF PREMISES

- .1 Restricted use of site and premises as directed by Departmental Representative until Substantial Performance.
- .2 Limit use of premises for Work, and for storage.
- .3 Utilize Laydown Areas as designated by

Departmental Representative for all storage, all vehicle and equipment parking, and all site offices and trailers.

- .1 Laydown Areas will be designated inside and outside the security fencing.
 - .2 Re-contour and gravel Laydown Area terrain as required.
 - .3 Maintain Laydown Area to prevent dusting and mud.
 - .4 Make good Laydown Area to original condition, composition, nature and character upon completion of Work.
- .4 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.

5. DEPARTMENTAL
REPRESENTATIVE
OCCUPANCY

- .1 Departmental Representative will occupy premises during entire construction period for execution of normal operations.
- .2 Execute Work with least possible interference or disturbance to building operations occupants, public and normal use of premises. Arrange with Departmental Representative to facilitate execution of work.

6 EXISTING
SERVICES

- .1 Notify, Departmental Representative and utility companies of intended interruption of services and obtain required permission.
- .2 Where Work involves breaking into or connecting to existing services, give Departmental Representative 7 days notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to pedestrian and vehicular traffic and Departmental Representative's operations.
- .3 Provide alternative routes for personnel, pedestrian and vehicular traffic.

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- .4 Establish location and extent of service lines in area of work before starting Work. Notify Departmental Representative of findings.
 - .5 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility including power and communications services. Adhere to approved schedule and provide notice to affected parties.
 - .6 Provide temporary services to maintain existing buildings' systems.
 - .7 Provide traffic control in the event of one lane access.
 - .8 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
 - .9 Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction.
 - .10 Record locations of maintained, re-routed and abandoned service lines.
 - .11 Construct barriers in accordance with Section 01 56 00.
 - .1 Maintain at job site, one copy of each document as follows:
 - .1 Shop Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed Shop Drawings.
 - .5 List of Outstanding Shop Drawings.
 - .6 Change Orders.
 - .7 Other Modifications to Contract.
 - .8 Field Test Reports.
 - .9 Copy of Approved Work Schedule.
 - .10 Health and Safety Plan and Other Safety Related Documents.
 - .11 Material and Safety Data Sheets.
 - .12 Labour conditions and Wage Schedules.

6 DOCUMENTS
REQUIRED

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- .13 Material and Labour Bonds.
 - .14 Manufacturers' applicable instructions.
 - .15 Municipal and Provincial Permits.
 - .16 Roof Inspection Reports
 - .17 Other documents as specified.

END OF SECTION