



Construction Tender & Contract

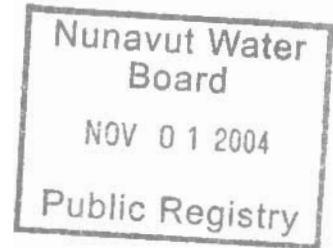
Project No: 507307

Name of Project: Checkers Lake Access Road

Project Location: CHESTERFIELD INLET NUNAVUT

Hamlet of Chesterfield Inlet (Government of Nunavut)

Revised: June 2003



INTERNAL	
PC	clp
MA	
FO	
LA	
BS	
ST	
TA1	
TA2	
RC	
ED	
CH	
BRD	
EXT.	

<u>Section</u>	<u>Title</u>	<u>Pages</u>
Division 01		
01001	General Requirements	.
01011	Summary of Work Single Contract	1
01021	Allowances	1
01060	Regulatory Requirements	3
01200	Project Meetings	3
01301	Submittals	3
01310	Construction Schedule	3
01400	Quality Control	3
01510	Temporary Utilities	.
01535	Temporary Facilities	2
01601	Material and Equipment	7
01700	Contract Closeout	4
01721	Project Record Documents	3
Division 02		
02111	Site Preparation	1
02210	Road Right-of-Way and Site Grading	7
02215	Roadworks	5
02220	Pipe Culverts	3
02230	Aggregates: General	4
02233	Granular Base	3
02270	Geotextile	.

Granular Resources General Requirements Section
Access Road Page
Chesterfield Inlet Mar. 18, 2003
FSC 2002-0690
PART 1 - GENERAL

. . Summary of Work .1 Section Includes

.1 Titles and description of work: Checkers Lake Access
Road, Chesterfield Inlet, Nunavut.

.2 Contract methods: Unit Price.

1.2 Project .1 Coordinate progress of the Work,
progress
Coordination schedules, submittals, use of site
temporary
utilities, construction facilities and
controls.

.3 Field Engineering

.1 In 2002 the Survey layout for this by FSC Architects
& Engineers on
behalf of the owner. In 2003 a contract surveyor
from Community Government and Transportation will
provide the survey layout and as-built survey and
quantity confirmation at the end of construction.

.2 Contractor to provide assistance to the
Surveyor as required for supplementary
Survey layout.

.3 Contractor will be responsible for the
Costs of replacement of the permanent and
Temporary survey markings destroyed by
Irresponsible construction practices.

1.4 Measurement for .1 There will be no separate measurement for
Payment for work under this section. It is
Incidental to completion of the work.

END

Granular Resources Summary of Work Section 0101
Access Road Single Contract Page
Chesterfield Inlet Mar. 18, 2003
FSC 2002-0690

PART 1 - GENERAL

Work Covered by

.1 Work of this Contract comprises road
Contract Documents construction including the
supply, hauling,
placement and compaction of the necessary
granular materials. Supply and placement of
the necessary corrugated steel culverts.

1.2 Contract Method .1 Construct the Work under a unit price
contract.

1.4 Schedule .1 The intention of this Contract is that all
work shall be completed by October 1, 2003.
.2 The successful bidder shall take whatever
steps are required to mobilize equipment in
the community as required to complete this
work by the required date.

.5 Measurement for
Payment .

1 All costs associated with the mobilization
necessary to complete this work shall be paid
as a lump sum.
.2 60% of the mobilization price Tendered shall
be paid upon start up of the work in 2003. 40%
shall be paid upon completion and acceptance
of the work.
.3 Mobilization / Demobilization shall include
all shipping and air freight costs.

END

Granular Resources Road Right-of-Way Section 02210

Granular Resources	Allowances	Section 01021
Access Road		Page 1
Chesterfield Inlet		Mar. 18, 2003
FSC 2002-0690		

PART 1 - GENERAL

1.1 Contingency
Allowance

Include in the Contract Price, the sum of \$50,000.00 where indicated, as a Contingency Allowance to provide for changes in the Work as determined and authorized by the Engineer under the General Conditions of the Contract.

.2 The unexpended portion of the Contingency Allowance is to be credited to the Owner upon Completion of the Work.

PART 1 - GENERAL

1.1 Permits/
Inspections

- . The Contractor shall obtain and pay for all permits, licenses, certificates and governmental inspections required for the performance of the Work in force at the Tender closing date
- Should a utility company require an inspector (or the utility company personnel) to be present during any part or parts of construction, the Contractor shall pay for inspectors time and any related expenses.
- .3 Give all required notices and comply with all local, territorial and federal laws, ordinances, rules, regulations, codes and orders relating to the Work, which are or become in force during the performance of the Work.

1.2 Applicable
Codes/Standards

- . Where specified codes/standards are not dated, conform to latest issue of specified codes/standards as amended and revised to the Tender closing date.
- Confine apparatus, the storage of Products and the operations of workers to limits indicated by laws, ordinances, permits and by directions of the Engineer. Do not unreasonably encumber the premises with Products.

1.3 Safety

- .1 Observe and enforce all construction safety measures required by code, Workers' Compensation Board, The Nunavut Territories Safety Act, General Safety Regulations and all applicable statutes.

Appoint a suitably qualified employee who has sole responsibility on site on behalf of the Contractor, for compliance with the requirements and so advise the Owner in writing with a copy to the Engineer.

1.3 Safety
(Cont'd)

In the event of discrepancy between such provisions, the most stringent provision shall apply.

- .3 Make available four (4) "Visitor safety helmets" for authorized visitors.

The burning of refuse is strictly forbidden.

- .5 If "NO SMOKING" regulations are in effect in the areas of the Work, ensure that all workers comply with the regulations.

Ensure that all workers comply with the Owner's safety regulations where such regulations are in effect.

Do not load or permit to be loaded any part of the Work with a weight, load or force that will exceed the design load and/or endanger its safety

1.4 Cleaning Up

Conform to local ordinances and by-laws of littering of streets.

- .2 Take precautions to prevent depositing mud or debris on public or private roadways adjacent to the Work. Clean up immediately, otherwise the Engineer will direct necessary cleanup with all costs back charged to the Contractor

5 Existing Utilities

- .1 Conform to Territorial and Municipal regulations during construction in proximity to utility structures.

- .2 Notify appropriate utility companies and municipal departments minimum one week in advance of commencing such work.

Make arrangements with utility companies and municipal department for protection of pipelines, conduits, drainlines, wiring and other structures, whether underground, on the surface or overhead, and satisfy the company or department that the methods or operations are effective. Pay any inspection charges for

1.5 Existing
Utilities
(Cont'd)

(Cont'd)
utility company inspectors if inspection of
work is deemed necessary by utility company

Indemnify and save harmless the Owners of
these existing utilities from any loss or
damage which may be suffered by reason of the
operations of the Contractor in the
performance of this Contract.

1.6 Measurement for
Payment

There will be no separate measurement for
payment under this section. It is incidental
to completion of the work.

PART 1 - GENERAL

Preconstruction
Meeting

Within 7 days after award of Contract, request a meeting of parties in contract to discuss and resolve administrative procedures and responsibilities.

- .2 Senior representatives of the Owner, Consultant, Contractor, major Subcontractors, field inspectors and supervisors will be in attendance.

*Meeting
Eng, W
SAP
G. H. H. H.*

- . Establish time and location of meeting and notify parties concerned minimum 5 days before meeting

- .4 The Engineer will chair and record discussions and decisions, and circulate the minutes to all parties concerned.

- .5 Agenda to include the following:
.1 Appointment of official representative of participants in the Work,
.2 Schedule of Work, progress scheduling (Section 01310)
.3 Regulatory requirements including needs of utility companies for resident inspectors.
.4 Schedule of submission of shop drawings, samples (Section 01301)
.5 Requirement for temporary utilities (Section 01510)
.6 Requirements for temporary facilities, site sign, offices, storage sheds, utilities, fences (Section 01535)
.7 Delivery schedule of specified equipment (Section 01310)
.8 Site security (Section 01501 01535)
.9 Proposed changes, change orders, procedures, approvals required, mark-up percentages permitted, time extensions, overtime, administrative requirements (GC)
.10 Record drawings (Section 01721)
.11 Take-over procedures, acceptance, warranties (Section 01700 and 01721, and GC)
.12 Monthly progress claims, administrative procedures, photographs, holdbacks (GC)
.13 Appointment of inspection and testing agencies or firms (Section 01400)

Preconstruction Meeting (Cont'd)	:	Agenda to include the following: (Cont'd) .14 Insurances, transcript of policies (GC) .15 Record mutually agreed variations to contract documents, Bid revisions (GC)
1.2 Progress Meetings	.1	During course of Work schedule progress meetings as required.
	.2	Contractor, major Subcontractors involved in Work and Consultant and Owner are to be in attendance.
	.3	The Engineer will notify parties in writing : minimum of 4 days prior to meetings.
	.4	The Engineer will preside at and record minutes of meetings and circulate to attending parties and affected parties not in attendance within 4 working days after meeting.
	.5	Meeting attendees must be qualified and authorized to act on behalf of the part each represents.
	.6	Any amendments to the minutes shall be distributed within five (5) working days of the date of the generation of the amendment.
	-	Agenda to include the following .1 Review, approval of minutes of previous meeting .2 Review of Work progress since previous meeting .3 Field observations, problems, conflicts .4 Problems which impede construction schedule .5 Review of off-site fabrication delivery schedules .6 Corrective measures and procedures to regain projected schedule .7 Revision to construction schedule .8 Progress schedule, during succeeding work period .9 Review submittal schedules: expedite as required .10 Maintenance of quality standards. .11 Review proposed changes for affect on construction schedule and on completion date.

Granular Resources	Project Meetings	Section 01200
Access Road		Page 3
Chesterfield Inlet		Mar. 18, 2003
PSC 2002-0690		

1.2 Progress
Meetings
(Cont'd)

Agenda to include the following: (Cont
.12 Other business.

The Contractor will provide physical space,
table and chairs for all participants of the
meeting.

1.3 Measurement .1
for Payment

There will be no measurement for payment
under this section. It is incidental to
completion of the work.

END OF SECTION 01200

END

PART 1 - GENERAL

1.1 Administrative

Submit to Engineer submittals listed for review. Submit with reasonable promptness and in orderly sequence so as to not cause delay in the Work.

- .2 Work affected by the submittal shall not proceed until review is complete.

Review submittals prior to submission to the Engineer. Submittals not stamped, signed, dated and identified by the Contractor will be returned without being examined and shall be considered rejected.

- .4 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Engineer review.

1.2 Shop Drawings and Product Data

The term "shop drawings" means drawings, diagrams, illustration, schedules, performance charts, brochures and other data which are to be provided by the Contractor to illustrate details of a portion of the Work.

Adjustments made on shop drawings by the Engineer are not intended to change the contract Price. If adjustments affect the value of Work, state such in writing to the Engineer prior to proceeding with the Work.

Make changes in shop drawings as the Engineer may require, consistent with Contract Documents. When resubmitting, notify the Engineer in writing of any revisions other than those requested.

Submit four (4) prints of shop drawings for each requirement requested in specification Sections and as the consultant may reasonably request

Submit four (4) copies of product data sheets or brochures for requirements requested in specification Sections and as the Engineer may

1.2 Shop Drawings and Product Data (Cont'd) : (Cont'd
reasonably request where shop drawings will
not be prepared due to standardized
manufacture of product

1.3 Samples : Submit samples for review as requested in
respective specification Sections. Label
samples as to origin and intended use in the
Work.

: Adjustments made on samples by the Engineer
are not intended to change the Contract price.
If adjustments affect the value of Work, state
such in writing to the Engineer prior to the
proceeding with the Work.

1.4 Cash Flow Forecast : Submit to the Engineer, immediately after
award of Contract, a cash flow forecast of
approximate costs to the Work, compiled on a
monthly basis over the term of the
Contract, showing labour and material costs
separately.

1.5 Certificates and Transcripts : Immediately after award of Contract and prior
to substantial completion and prior to final
payment, submit Workers' Compensation Board
status and Transcript of Insurance.

1.6 Photographs and Publicity .1 No photographs of the site or of any portion
of the Work will be permitted without prior
approval of the Engineer.

No press or publicity releases will be
permitted without prior approval of the
Engineer.

Granular Resources
Access Road
Chesterfield Inlet
FSC 2002-0690

Submittals

Section 01301
Page 3
Mar. 18, 2003

1.7 Measurement for .1
Payment

There will be no separate measurement for payment under this Section. It is incidental to completion of the Work.

END OF SECTION 01301

END

Granular Resources	Construction Schedule	Section 01310
Access Road		Page 1
Chesterfield Inlet		Mar. 18, 2003
FSC 2002-0690		

PART 1 - GENERAL

1.1 Schedules Required

Submit the following schedules:
.1 Construction Progress Schedule
.2 Product Delivery Schedule

1.2 Format

- .1 Prepare schedule in the form of a horizontal bar chart
- .2 Provide horizontal time scale identifying the first work day of each week
- .3 Format for listings: The chronological order of the start of each item of work.
- .4 Identification of listings: By Systems description.

1.3 Submission

- .1 Submit initial schedules within 7 days after award of Contract.
- .2 Engineer will review schedule and return review copy within 7 days after receipt.
- .3 Resubmit finalized schedule within 7 days after return of review copy.
- .4 Submit revised progress schedule with each application for payment
- .5 Distribute copies of the revised schedule to:
 - .1 Job site office.
 - .2 Subcontractors.
 - .3 Other concerned parties.
- .6 Instruct recipients to report to the Contractor within 7 days, any problems anticipated by the timetable shown in the schedule.

1.4 Construction
Progress Schedule

Include the complete sequence of construction activities

- : Include the dates for the commencement and completion of each major elements of construction including the following.
 - .1 Ordering and delivery dates of products.
 - .2 Phasing and timing of various subcontracts
- . Show projected percentage of completion of each item as of the first day of the month.
- . Indicate progress of each activity to date of submission schedule.
- . Show changes occurring since previous submission of schedule:
 - .1 Major changes in scope.
 - .2 Activities modified since previous submission.
 - .3 Revised projections of progress and completion.
 - .4 Other identifiable changes.
- .6 Provide a narrative report to define:
 - .1 Problem areas, anticipated delays, and the impact on the schedule.
 - .2 Corrective action recommended and its effect.
- .7 All orders for materials shall be placed in ample time for adherence to the schedule.
- .8 Make special note of those times when installation could affect overall water and sewer systems operation and street access.

1.5 Submittals
Schedule

Include schedule for submitting shop drawings, product data, samples.

Include dates when reviewed submittals will be required from the Engineer

Manpower/Overtime Should the work fail to progress according to the approved progress schedule, work such additional time (including weekends and holidays), employ additional workers, or both, as may be required to bring the Work back on schedule, at no additional cost to the Owner.

Night work (between the hours of 9:00 p.m. and 7:00 a.m.) will be permitted only with written permission of the Engineer and in accordance with existing municipal regulations. Provide sufficient lighting to permit night work to be performed safely and satisfactorily.

1.7 Measurement for .1 Payment There will be no separate measurement for payment under this section. It is incidental to completion of the work

END OF SECTION 01310

ART 1 - GENERAL

1.1 Inspection

- . The Owner and the Engineer shall have access to the Work. If part of the Work is in preparation at locations other than the Place of the Work, access shall be given to such work whenever it is in progress.
- .2 Give give 7 days notice requesting inspection if Work is designated for special tests, inspections or approvals by Engineer instructions, or the law of the Place of the Work.

If the Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have the inspections or tests satisfactorily completed and make good such Work.
- . The Engineer may order any part of the Work to be examined if the Work is suspected to be not in accordance with the Contract Documents. If, upon examination such work is found not in accordance with the Contract Documents, correct such work and pay the cost of examination and correction. If such Work is found in accordance with the Contract Documents, the Owner shall pay the cost of examination and replacement.

1.2 Independent Inspection Agencies

- .1 Independent Inspection/Testing Agencies will be engaged by the Engineer for the purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by the Engineer.
- .2 All equipment required for carrying out inspection and/or testing will be provided by the respective Agencies.
- .3 Employment of inspection/testing agencies does not relax the responsibility to perform Work in accordance with the Contract Documents.

1.2 Independent
Inspection Agencies
(Cont'd)

If defects are revealed during inspection and/or testing, the appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defects and irregularities as advised by Engineer at no cost to the Owner. Pay costs for retesting and reinspection.

3 Access to Work .1

Allow inspection/testing agencies access to the Work, off site manufacturing and fabrication plants.

: Co-operate to provide reasonable facilities for such access.

1.4 Procedures

Notify the appropriate agency and Engineer in advance of the requirement for tests, in order that attendance arrangements can be made.

Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in an orderly sequence so as not to cause delay in the Work.

Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

.5 Rejected Work .1

Remove defective Work, whether the result of poor workmanship, use of defective products or damage and whether incorporated in the Work or not, which has been rejected by the Engineer as failing to conform to the Contract Documents. Replace or re-execute in accordance with the Contracts Documents.

.2 Make good other Contractor's work damaged by such removals or replacements promptly.

.3 If in the opinion of the Engineer it is not expedient to correct defective Work or Work not performed in accordance with the Contract

1.5 Rejected Work
(Cont'd)

(Cont'd)
Documents, the Owner may deduct from the Contract Price the difference in value between the Work performed and that called for by the Contract Documents, the amount of which shall be determined by the Engineer

1.6 Design
Standards Code
Requirements

Inspection and/or testing will be performed in accordance with the following:
.1 Compacted fill materials to ASTM D 698-00a for Standard Proctor Density.
.2 Bolted connections to CSA S16 or S16.1.

1.7 Measurement for
Payment

There will be no separate measurement for payment under this section. It is incidental to completion of the work.

PART 2 - PRODUCTS

2.1 Frequency of
Tests

Testing is required on the basis of the following:

- .1 Trench Backfill: minimum of one compaction test per 50 meters of trench per 0.5 m of backfill depth.
- .2 Granular Road Base minimum of one compaction test per 1000 square meters of roadway per lift of material.
- .3 Granular Material: one sieve analysis per 5000 cu. m. of material.

- 2 Engineer may arrange extra tests where appropriate.

END OF SECTION 01400

Granular Resources	Temporary Utilities	Section 01510
Access Road		Page 1
Chesterfield Inlet		Mar. 18, 2003
FSC 2002-0690		

PART 1 - GENERAL

<u>1.1 Installation and Removal</u>	.1	Provide temporary utilities controls in order to execute work expeditiously
	.	Remove from site all such work after use.
<u>1.2 Dewatering</u>		Provide temporary drainage and pumping facilities . keep excavations and site free from standing water.
<u>1.3 Sanitary Facilities</u>	.1	Provide sufficient sanitary facilities for workers in accordance with local health authorities.
	.	Maintain sanitary facilities in clean condition
<u>1.4 Measurement for Payment</u>		There will be no separate measurement for payment under this section. It is incidental to completion of the work.