

1. GENERAL

1.1 SUMMARY OF WORK

- .1 Requirements Included
 - .1 Project Name: **Project Name**
 - .2 Contract Method: **[Unit Price, Lump Sum, etc.]**
 - .3 Commencement Date: **Date**
 - .4 Completion Date: **Date**
- .2 Related Requirements
 - .1 Section 00 30 00 – Available Information (if included).
 - .2 Section 00 52 00 – Contract Agreement.
 - .3 Section 00 72 00 – General Conditions.
 - .4 Section 00 73 00 – Supplemental General Conditions.

1.2 PROJECT COORDINATION

- .1 Coordinate progress of the Work, progress schedules, submittals, use of site, temporary utilities, construction facilities, and interruption of services during construction.

1.3 PRE-CONSTRUCTION MEETING

- .1 Schedule a site meeting with the Owner and Engineer prior to the commencement of the Work.
- .2 Ensure all of the requirements of the Contract are understood, and adequate pre-construction grade staking is done.
- .3 Inspect all manholes, catch basins, valve boxes, hydrants, asphalt, sidewalks and curbs in the working area with the Engineer's Representative, noting the current condition of all items.
- .4 Review the Safety policy and safety requirements of the project.

1.4 SCHEDULE

- .1 Schedules Required.
 - .1 Contract Work Schedule
- .2 Format
 - .1 Provide a horizontal time scale identifying the first workday of each week.
 - .2 Format for listings: Chronological order of the start of each item of work.
- .3 Submission
 - .1 Submit, to the Engineer, an initial schedule within **fifteen (15) Days** after the award of the Contract. An electronic copy compatible with the current version of MS Project will also be required.
 - .2 The Engineer will review the schedule and return the reviewed copy within **ten (10) Days** after receipt.
 - .3 Resubmit a finalized schedule within **seven (7) Days** after the return of the reviewed copy.

1.5 WEEKLY PROJECT MEETINGS

- .1 Weekly project meetings will be held at the office of the Engineer for the duration of the project, at a time to be designated by the Engineer. The Project superintendent appointed by the Contractor shall attend each meeting to provide updates regarding the proposed weekly Work tasks and corresponding timelines, including locations of the scheduled Work,

for the subject week. The Engineer shall provide a summary of each weekly meeting to the Owner.

- .2 Weekly progress updates and weekly work schedules, including but not limited to, expected activities, alternate traffic accommodation strategies, etc. shall be provided by the Contractor to the Engineer at the start of each new week for the full duration of the Contract. On a weekly basis an updated schedule for completion of the Work shall be provided, including an estimation of the percent completion of the major project tasks.

1.6 QUALITY CONTROL AND QUALITY ASSURANCE

.1 Responsibility

- .1 The Contractor shall be fully responsible, at all times, for the Quality of the Work and shall ensure compliance of the Work with the Technical Specifications and the Plans and Drawings.
- .2 The Engineer shall, prior to commencement of the Work, review with the Contractor all testing requirements, including the applicable type of tests, and the frequency, location, depth, etc. of tests to be performed.

.2 Inspection

- .1 The Owner and Engineer shall have unimpeded access to the Work at all times.
- .2 The Contractor shall give timely notice requesting inspection if Work is designated for special tests, inspections, instructions or approvals by the Engineer or law of the Place of the Work.
- .3 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 at its own cost.

.3 Independent Inspection Agencies

- .1 Independent Inspection/Testing Agencies will be engaged by the Owner for purpose of inspecting and/or testing portions of Work for quality assurance purposes. The cost of such services will be borne by the Owner.
- .2 The costs of retests due to failure of the initial test shall be borne by the Contractor.
- .3 Testing conducted on the Work, even if the results are within the acceptable or passing requirements, in no way relieves the Contractor of its maintenance responsibilities with respect to the Work. All settlements, failures, and other defects in the Work shall be promptly repaired by the Contractor to the satisfaction of the Engineer as soon as is practicable to do so, but in any case, prior to expiry of the warranty (guarantee) period.
- .4 Reports
 - .1 Copies of test reports will be submitted promptly to the Engineer, Owner and Contractor.
- .5 Quality Control
 - .1 The Contractor is responsible for all testing required to maintain quality control.

1.7 PUBLIC NOTICES

- .1 The Contractor is responsible for, at its entire cost, the creation and distribution of all public notices regarding road closures, temporary water and/or any other Work which will affect the adjacent properties. All such notices shall be generated by the Contractor and reviewed by the Engineer and Owner prior to the delivery to the public. The Contractor shall distribute all public notices no later than **five (5) business days** prior to the commencement of any Work. All notices shall contain the name of the Contractor, Owner and Engineer including name and contact information of the Project Superintendent designated by the Contractor.
- .2 In addition, the Contractor shall provide notices to the local school boards and emergency services outlining the proposed start date and end date of construction, unless otherwise instructed by the Owner and or the Engineer.

- .3 The preparation, delivery and any other materials required to formulate and distribute the public notices is deemed incidental to the Work and as such no additional payment will be made due the Contractor.

1.8 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

- .1 Installation/Removal
 - .1 Provide construction facilities and temporary controls in order to execute the work expeditiously.
 - .2 Remove from the Site all such work after use.
- .2 Access Maintained
 - .1 Existing hydrants, valve boxes, curb stop boxes and all other utility controls, warning systems, and appurtenances thereof shall not be obstructed or made inaccessible at any time by the construction work. Bridges, walks, or other temporary facilities shall be Provided as may be necessary to ensure that these controls or warning systems are free for use in their normal manner at all times during construction.
- .3 Access Roads
 - .1 Temporary roads shall be constructed as required for access to the working areas. Adequate drainage facilities in the form of ditches, culverts or other conduits shall be installed as found necessary to maintain these roads.
 - .2 In the construction of access roads, existing drainage facilities, natural or otherwise, shall not be disturbed to the detriment of properties outside of the working area and such facilities shall, unless otherwise provided elsewhere in the Specifications, be restored to their original condition upon completion of the Work.
- .4 Detours
 - .1 Where construction requires the blocking or closing of existing roads, a suitable detour with adequate signing and lighting shall be provided. The Contractor shall obtain the approval of the local authority for the proposed closing and the detour route, i.e., Road Closure Permit.
 - .2 The police, ambulance and fire departments shall be advised of the location and duration of the proposed detour by the local authority.
 - .3 Specific information regarding Construction Advertising and Detour Signage, if any, is listed in Section 00 30 00 – Available Information.
- .5 Hoarding
 - .1 Erect and maintain hoarding to protect public, workers, public and private property from injury or damage.
- .6 Dewatering
 - .1 The Contractor is responsible for dewatering the Site prior to construction commencement and throughout the duration of construction.
 - .2 Provide temporary drainage and pumping facilities to keep excavations and the Site free from standing water. Delays resulting from saturation of surfaces due to standing water will not be considered an Excusable Event.
 - .3 Existing culverts, enclosed drains, flumes, ditches, and other drainage structures affected by the work but left in place shall be kept clear of excavated material at all times during construction. When it is necessary to temporarily remove an existing drainage structure, the Contractor shall provide suitable temporary ditches or other approved means of handling the drainage during construction.
- .7 Site Storage/Loading
 - .1 Confine the Work and operations of employees to the limits indicated by the Contract Documents. Do not unreasonably encumber the premises with Products or equipment.

- .2 Do not load or permit to be loaded any part of the Work with a weight or force that will endanger the Work.
- .8 Sanitary Facilities
 - .1 Provide sufficient sanitary facilities for workers in accordance with local health authorities.
 - .2 Maintain such in a clean condition.
- .9 Project Cleanliness
 - .1 Maintain the Work in a tidy condition, free from accumulation of waste products and debris.
 - .2 Remove waste material and debris from the Site at the end of each working day.

1.9 MATERIAL AND EQUIPMENT

- .1 Product and Material Quality
 - .1 Products, materials, equipment and articles (referred to as Products throughout specifications) incorporated in the Work shall be new, not damaged or defective, and of the best quality (compatible with the specifications) for purpose intended. If requested, furnish evidence as to the type, source and quality of Products provided.
 - .2 Defective Products will be rejected regardless of previous inspections. Inspection does not relieve responsibility but is a precaution against oversight or error. The Contractor shall remove and replace defective Products at its own expense and be responsible for delays and expenses caused by such rejection.
 - .3 Should any dispute arise as to quality or fitness of any Products, the decision rests strictly with the Engineer, based upon the requirements of the Contract Documents.
- .2 Storage, Handling and Protection
 - .1 Handle and store Products and equipment in such a manner as to prevent damage, adulteration, deterioration and soiling, and in accordance with the manufacturer's instructions when applicable. The security of the Site is the sole responsibility of the Contractor.
 - .2 Store packaged or bundled Products in their original and undamaged condition with manufacturer's seals and labels intact.
 - .3 Store Products subject to damage from weather in weatherproof enclosures.
 - .4 The Contractor shall be solely responsible for any lost, damaged, or stolen Products, materials or equipment from the Site.
- .3 Manufacturer's Instructions
 - .1 Unless otherwise indicated in the Specifications, install or erect Products in accordance with the manufacturer's instructions. Do not rely on labels or enclosures provided with the Products; obtain written instructions directly from manufacturers.
 - .2 Notify the Engineer, in writing, of conflicts between the Specifications and the manufacturer's instructions, so that the Engineer may establish a course of action.
 - .3 Improper installation or erection of Products, due to failure in complying with these requirements, authorizes the Engineer to require the removal and reinstallation of such at no increase in Contract Price, and at the Contractor's own expense.
- .4 Workmanship
 - .1 Workmanship shall be of the best quality, executed by workers experienced and skilled in the respective duties for which they are employed. Immediately notify the Engineer if the required Work is such as to make it impractical to produce the required results.
 - .2 Do not employ any unfit person or anyone unskilled in their required duties.
 - .3 Decisions as to the quality or fitness of workmanship in cases of dispute rest solely with the Engineer, whose decision is final.

1.10 PROJECT CLOSEOUT

.1 Final Cleaning

- .1 When the Work is nearing completion, remove surplus products, tools, construction machinery and equipment not required for performance of the remaining Work.
- .2 Remove waste materials and debris from the Site daily. Do not burn waste materials on the Site.

1.11 REGULATORY REQUIREMENTS

- .1 The Laws and Regulations of the place where the Work is performed shall govern, in accordance with the General Conditions.
- .2 The Contractor shall ensure compliance on its part, and on the part of all its sub-contractors, with the Occupational Health and Safety legislation and regulations thereunder of the Place of Work.
- .3 Work shall conform to or exceed the minimum standards of the Canadian General Standards Board, and the Canadian Standards Association.

1.12 HAUL ROADS

- .1 Obtain approval from the Owner and the Engineer prior to using any local road as a haul road. If local roads are approved for such use, a walkthrough will be conducted by representatives of the Engineer, Owner and Contractor to inspect all manholes, catch basins, valve boxes, asphalt, sidewalks and curbs in the haul road, noting the current condition of all items, in advance of the local road being used as a haul road.
- .2 The Contractor shall be responsible for damage and/or spillage on all roads used for hauling materials and equipment to and from the Site, subject to the Engineer being satisfied such damage or spillage was a direct result of the actions of the Contractor or one of the Contractor's agents in the performance of the Work required under this Contract.
- .3 The Contractor will be responsible for any repairs required to bring the local roads back to a condition at least equivalent to that which existed prior to the local road being used as a haul route, as directed by the Engineer. Any repairs required will be paid to the Contractor under the provisions of the Contract.
- .4 All gravel roads used as haul roads shall be regraded at the end of construction.
- .5 Upon notification by the Engineer that remedial work or cleaning is necessary, immediately clean and/or restore the affected areas as designated by the Engineer.

1.13 NOISE AND DUST CONTROL

- .1 Control objectionable dust conditions in areas of construction, whether it be caused by traffic or construction equipment.
- .2 All excavating and hauling equipment shall be equipped with suitable muffling systems.
- .3 Abide by any Noise Bylaws which affect any work in the area.

1.14 WATER SUPPLY

- .1 Supply all water necessary for the Work and obtain written permission from the Owner prior to using any hydrants.

- .1 Temporary water services shall be provided by the Contractor to businesses and residents affected during construction. The Contractor will be responsible for the supply, installation and maintenance of all required equipment for temporary water services. All temporary water servicing shall be coordinated with the Owner's Water Services Department and the Engineer. The Owners Water Services Department will arrange hydrant connections. The Contractor shall submit a "Temporary Water Supply for Construction" application form a minimum of **seven (7) days** prior to the connection request date.
- .2 The Contractor in conjunction with the City of Lloydminster Water Services Department will be responsible for providing notification of temporary water service to all affected property owners in accordance with GC 27.8.
- .2 If required, the Contractor shall contact the City of Lloydminster Water Services Department to obtain the latest version of the Temporary Water Supply For Construction Application, Conditions and Procedure.
- .3 Contacts:

Supervisor, Water Distribution
City of Lloydminster
Bus: (780) 874-3700 ext. 2773
Fax: (780) 874-8345

General Manager, Water Services
City of Lloydminster
Phone: (780) 874-3700 ext. 2770
Fax: (780) 874-3701
- .4 The Contractor shall be held responsible for any damage done to the hydrants or surrounding area.
- .5 Any existing valves or hydrants shall only be operated by the Owner's Water Services staff. The Contractor shall coordinate this work with the Engineer and the Owner's representative, with a minimum **three (3) days** advance notice of the Contractor requiring the operation of the boundary valves. The operation of the boundary valves includes the closing of the valves prior to the underground construction as well as opening the valves for flushing and pressure testing at the end of the underground construction. Under no circumstance are the boundary valves to be operated by the Contractor without a Water Services representative of the Owner on site witnessing the work.
- .6 Make an agreement with the Owner for the payment of water used.

1.15 POWER

- .1 Provide temporary electrical power supply in accordance with the governing regulations and ordinances.
- .2 Install temporary facilities for power such as pole lines and underground cables to the approval of the local power supply authority.

1.16 RECORD DRAWINGS

- .1 The Engineer will provide one (1) additional set of construction drawings for record drawing purposes just after the Award of Contract.
- .2 Identify each Drawing as a "Project Record Copy". Maintain the Drawings in good condition and make them available for inspection on Site by the Engineer or Owner at all times.

- .3 Maintain project record drawings and record accurately any deviations from the Contract Documents caused by site conditions and change orders by Engineer. The Contractor shall keep the "record" drawings current as the job progresses.
- .4 Mark changes in red.
- .5 Record the following information:
 - .1 Horizontal and vertical location of the underground piping utilities and appurtenances.
 - .2 Location of any internal utilities and appurtenances (mechanical and electrical) concealed in the construction, referenced to visible and accessible features of structure.
 - .3 Field changes of dimension and detail.
 - .4 Changes made by Change Order or Field Instruction.
- .6 At the completion of project and prior to issuance of the Construction Completion Certificate, sign and date the prints as Certification of Accuracy and submit the record drawings to the Engineer.

1.17 CURBSIDE GARBAGE COLLECTION

- .1 In residential areas scheduled for curbside pickup, the Contractor will be responsible for ensuring garbage bins of the residents within the construction area are transported to the designated pick up location (to be determined at the pre-construction meeting), collected by curbside pickup crews, returning the bins to the appropriate residence, and informing the residents of the process. Providing curbside pickup crews access to the residents' garbage is considered incidental to the Work and no additional payment shall be made due the Contractor.
- .2 Garbage bins within the construction area not collected by curbside pickup crews must have their contents disposed of and brought to the City of Lloydminster Landfill at the Contractors' expense by the end of the regular day of collection, and the bins returned to the residents.
- .3 The Contractor shall return garbage bins to their correct owners after collection.

1.18 MEASUREMENT AND PAYMENT

- .1 There shall be no additional payment for items Specified in this section, and they shall be considered incidental to the Work, unless specified otherwise.
- .2 Payment shall be included in the overall Bid amount.

2. **PRODUCTS** (Not Applicable)

3. **EXECUTION** (Not Applicable)

END OF SECTION

REVISION LOG		
DATE	REVISION	COMMENTS
02/19/2019	Removed Section 1.8.5 Accommodation of Traffic	Traffic Accommodation Strategy already referenced within the General Conditions (GC 27).