

Part 1 General**1.1 RELATED SECTIONS**

- .1 Section 01 00 10 - General Instructions.

1.2 DEFINITIONS

- .1 Activity: element of Work performed during course of Project. Activity normally has expected duration, and expected cost and expected resource requirements. Activities can be subdivided into tasks.
- .2 Bar Chart (GANTT Chart): graphic display of schedule-related information. In typical bar chart, activities or other Project elements are listed down left side of chart, dates are shown across top, and activity durations are shown as date-placed horizontal bars. Generally Bar Chart should be derived from commercially available computerized project management system.
- .3 Baseline: original approved plan (for project, work package, or activity), plus or minus approved scope changes.
- .4 Construction Work Week: Monday to Friday, inclusive, will provide five day work week and define schedule calendar working days as part of Bar (GANTT) Chart submission.
- .5 Duration: number of work periods (not including holidays or other nonworking periods) required to complete activity or other project element. Usually expressed as workdays or workweeks.
- .6 Master Plan: summary-level schedule that identifies major activities and key milestones.
- .7 Milestone: significant event in project, usually completion of major deliverable.
- .8 Project Schedule: planned dates for performing activities and the planned dates for meeting milestones. Dynamic, detailed record of tasks or activities indicating precedence that must be accomplished to satisfy Project objectives. Monitoring and control process involves using Project Schedule in executing and controlling activities and is used as basis for decision making throughout project life cycle.
- .9 Project Planning, Monitoring and Control System: overall system operated by the Contractor to enable monitoring of project work in relation to established milestones.

1.3 REQUIREMENTS

- .1 Ensure Master Plan and Detail Schedules are practical and remain within specified Contract duration.
- .2 Plan to complete Work in accordance with prescribed milestones and time frame.
- .3 Limit activity durations to maximum of approximately 10 working days, to allow for progress reporting.

- .4 Ensure that it is understood that Award of Contract or time of beginning, rate of progress, Interim Certificate and Final Certificate as defined times of completion are of essence of this contract.

1.4 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 00 10, General Instructions.
- .2 Submit to the Departmental Representative within five (5) working days of Award of Contract Bar (GANTT) Chart as Master Plan for planning, monitoring and reporting of project progress.
- .3 Submit Project Schedule to the Departmental Representative within five (5) working days of receipt of acceptance of Master Plan.

1.5 PROJECT MILESTONES

- .1 Project milestones form interim targets for Project Schedule.
 - .1 Contract award
 - .2 Site preparation
 - .3 City of Ottawa Permits
 - .4 Service locates
 - .5 All craning operations
 - .6 Stage 1 complete
 - .7 Stage 2 complete
 - .8 Stage 3 complete
 - .9 Stage 4 complete
 - .10 Stage 5 complete
 - .11 Stage 6 complete
 - .12 Site restoration
 - .13 Certificate of Substantial Performance.
 - .14 Final testing, commissioning of Chiller completed.

1.6 MASTER PLAN

- .1 Structure schedule to allow orderly planning, organizing and execution of Work as Bar Chart (GANTT).
- .2 The Departmental Representative will review and return schedule within five (5) working days with related comments.
- .3 The Contractor shall update the schedule based on the review comments and resubmit within five (5) working days.
- .4 The accepted schedule will become Master Plan and be used as baseline for updates.

1.7 PROJECT SCHEDULE

- .1 Develop detailed Project Schedule derived from Master Plan.
- .2 Ensure detailed Project Schedule includes as minimum the following activity types as follows:
 - .1 Contract Award.
 - .2 City of Ottawa Permits
 - .3 Health and safety plan
 - .4 Shop Drawings,
 - .5 Stage 1 – Refer to Section 01 00 10 – General Instructions, Article **32 – SCHEDULING**.
 - .6 Stage 2 - Refer to Section 01 00 10 – General Instructions, Article **32 – SCHEDULING**.
 - .7 Stage 3 - Refer to Section 01 00 10 – General Instructions, Article **32 – SCHEDULING**.
 - .8 Stage 4 - Refer to Section 01 00 10 – General Instructions, Article **32 – SCHEDULING**.
 - .9 Stage 5 - Refer to Section 01 00 10 – General Instructions, Article **32 – SCHEDULING**.
 - .10 Stage 6 - Refer to Section 01 00 10 – General Instructions, Article **32 – SCHEDULING**.
 - .11 All shutdowns requiring interruption of power to wither the hydraulic building and-or main building.
 - .12 Craning procedures
 - .13 Pressure testing
 - .14 Flushing and cleaning of piping system
 - .15 TAB
 - .16 Commissioning of Chiller system
 - .17 Closeout submittals
 - .18 Site restoration
 - .19 Final commissioning and turn over.

1.8 PROJECT SCHEDULE REPORTING

- .1 Update Project Schedule on bi-weekly basis reflecting activity changes and completions, as well as activities in progress.
- .2 Include as part of Project Schedule, narrative report identifying Work status to date, comparing current progress to baseline, presenting current forecasts, defining problem areas, anticipated delays and impact with possible mitigation.

1.9 PROJECT MEETINGS

- .1 Discuss Project Schedule at regular site meetings, identify activities that are behind schedule and provide measures to regain slippage. Activities considered behind schedule are those with projected start or completion dates later than current approved dates shown on baseline schedule.
- .2 Weather related delays with their remedial measures will be discussed and negotiated.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 NOT USED

- .1 Not used.

END OF SECTION