

**SCHEDULE 3
PROJECT SCHEDULE**

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**PART 1
GENERAL PROVISIONS**

1.1 Diligent Performance of Work

The Primary Contractor shall:

- (a) commence the Work promptly following the Effective Date;
- (b) pursue the Work diligently and endeavour to ensure that each of the events for the completion of the Work, in each case as identified in the Project Schedule, as amended from time to time in accordance with Section 1.2 [Project Schedule] of this Schedule, is achieved at or before the time specified therefor in the Project Schedule, as so amended by the Primary Contractor; and
- (c) perform the Work in material conformity with the Construction Schedule, as amended from time to time in accordance with Section 1.3 [Construction Schedule] of this Schedule.

1.2 Project Schedule

- (a) The Project Schedule sets out the schedule in accordance with which the Primary Contractor is to carry out the Work provided for in the Design-Build Requirements.
- (b) The Primary Contractor shall submit to the Province's Representative from time to time in accordance with the Review Procedure for review by the Province's Representative acting reasonably an update of the Project Schedule to reflect any extension of any such dates agreed or determined in accordance with Section 2.16(g), Part 8 [Province Changes and Primary Contractor Proposals] or Part 9 [Supervening Events] or any proposed amendments to the Project Schedule contemplated by Section 7.16(e).
- (c) The Province may at any time, as a Province Change pursuant to Part 8 [Province Changes and Primary Contractor Proposals], request a revision to the Project Schedule to accelerate the performance of the Work or any component thereof.

1.3 Construction Schedule

- (a) The Primary Contractor shall prepare and submit to the Province's Representative in accordance with the Review Procedure for review by the Province's Representative acting reasonably:
 - (i) within 60 Business Days after the Effective Date, an initial Construction Schedule which shall be in all respects consistent with the Project Schedule;
 - (ii) at the same time as a revised Project Schedule is submitted in accordance with Sections 1.2(b) or 1.2(c) of this Schedule, a revised Construction Schedule in respect of each such revised Project Schedule which shall be in all respects consistent with such revised Project Schedule; and

- (iii) on the first or second Business Day of each month, a revised Construction Schedule reflecting the actual progress of the Work to the date of submission and the expected progress of the Work thereafter, including up to and including the achievement of Substantial Completion, Total Completion, Availability Demonstration Completion and TIDS Performance Demonstration Completion.
- (b) If in the opinion of the Province's Representative or the Primary Contractor at any time the actual progress of the Work does not conform with the Construction Schedule, then, within 7 Business Days of being so advised by the Province's Representative or (if earlier) becoming aware of such nonconformity, the Primary Contractor shall:
 - (i) provide the Province's Representative with a report identifying the reasons for such nonconformity with the Construction Schedule and a narrative recovery plan (which shall include resource requirements, working hours/shifts and contingency actions) to remedy such nonconformity; and
 - (ii) submit to the Province's Representative in accordance with the Review Procedure for review by the Province's Representative acting reasonably a revised Construction Schedule.
- (c) The initial Construction Schedule and any revised Construction Schedule submitted in accordance with this Section shall at a minimum show the following information:
 - (i) a detailed breakdown of the Work into details of Design and Construction indicating:
 - (A) the sequencing of activities required by this Agreement;
 - (B) a breakdown of the Design components including the following:
 - (1) Tunnel design, including civil works;
 - (2) elevated Guideway design, including civil works;
 - (3) at-grade Guideway design, including civil works;
 - (4) Stations design;
 - (5) Systems design;
 - (6) Other Fixed Facilities design;
 - (7) roads design;
 - (8) environmental design;
 - (9) Utility Work design; and
 - (10) key dates for Design submissions;

- (C) a breakdown of the Construction Schedule into the main Construction components including the following:
 - (1) Tunnel, including civil works;
 - (2) elevated Guideway, including civil works;
 - (3) at-grade Guideway, including civil works;
 - (4) Stations;
 - (5) Systems;
 - (6) Other Fixed Facilities;
 - (7) roads;
 - (8) work to Existing Transit Facilities;
 - (9) Utility Work;
 - (10) environmental permits, approvals and works;
 - (11) establishment of pre-cast facilities and other production and support facilities; and
 - (12) other significant Work functions on the critical path;
- (D) the early and late start completion date for each activity;
- (E) the proposed duration in working days for each activity;
- (F) free float and total float time for each activity, including reasonable allowances for the occurrence of events which may delay the Work;
- (G) the dependency of each activity on other activities; and
- (H) the critical path;
- (ii) a breakdown into sub-activities such that the duration of any sub-activity is not more than the amount which, based upon the nature of the activity, the Province's Representative reasonably requires to readily monitor the status and progress of such sub-activity and the Work;
- (iii) the number of working days and hours, with identification of days when Construction will not proceed, such as days that are not Business Days;
- (iv) a schedule of Permits, detailing when each Permit will be required and when application will be made for each Permit;

- (v) testing and commissioning of all Systems and sub-systems required for the Evergreen Line;
- (vi) each of the events for the completion of the Work, in each case as identified in the Project Schedule, as amended from time to time in accordance with Section 1.2 [Project Schedule] of this Schedule;
- (vii) all additional information reasonably requested by the Province's Representative to enable the Province to monitor the progress of the Work;

and shall:

- (viii) be in accordance with Good Industry Practice;
- (ix) indicate the critical path;
- (x) satisfy the Design-Build Requirements;
- (xi) be in sufficient detail so as to enable the Province's Representative to resource itself appropriately and so as to permit the Province adequately to plan for the availability of external resources to enable the Province to comply with its obligations under this Agreement, including under Schedule 4 [Design and Construction];
- (xii) be in all respects consistent with the Project Schedule; and
- (xiii) provide for the Work to be commenced and pursued diligently in accordance with Section 1.1 [Diligent Performance of Work] of this Schedule.

1.4 Conflict between Project Schedule and Construction Schedule

The Construction Schedule shall be provided for the information of the Province and the Province's Representative and for the purposes specified in Section 1.3(c)(xi) of this Schedule. In the event of any conflict between the Project Schedule and the Construction Schedule, the Project Schedule shall, unless otherwise agreed by the Province's Representative in its discretion, prevail.

1.5 Construction Management Plan

The Primary Contractor shall prepare and submit to the Province's Representative in accordance with the Review Procedure for review by the Province's Representative, acting reasonably, within 60 Business Days after the Effective Date, a plan (the "**Construction Management Plan**"), which shall describe how the key components of the Construction will be carried out and the connection to the Construction Schedule. At a minimum, the Construction Management Plan shall include descriptions of the following:

- (a) key issues and constraints affecting Construction and strategies to manage such issues and constraints;

- (b) construction methodologies and Work procedures for:
 - (i) Bored Tunnel, including spoil disposal;
 - (ii) Transition Tunnel;
 - (iii) the dividing wall separating the inbound and outbound sections of the Bored Tunnel;
 - (iv) elevated Guideways, including placement of columns;
 - (v) at-grade Guideways;
 - (vi) Stations; and
 - (vii) pre-cast yard and production facilities;
- (c) proposed construction and erection strategy for Structures spanning buildings, roadways and CPR tracks;
- (d) Utility relocation, protection, installation and co-ordination;
- (e) noise, hours of work and vibration requirements;
- (f) CPR construction constraints and safety requirements;
- (g) approach to maintaining existing transit service, including at Lougheed Town Centre Station and Port Moody WCE Station; and
- (h) construction sequencing and staging for the Work in each of the following areas:
 - (i) Barnet Highway crossing;
 - (ii) Ioco intersection and Ioco Station;
 - (iii) Guideway section from Lansdowne Drive to Mariner Way; and
 - (iv) Guideway section east of Ioco Station to Bond Street.

**APPENDIX A
PROJECT SCHEDULE**

| EVENT | DATE |
|---|---|
| Effective Date | December 11, 2012 |
| Smart Card and Faregates Work Target Date | The day that is 104 days prior to the Substantial Completion Date |
| Substantial Completion Target Date | July 29, 2016 |
| Service Commencement Target Date | 30 days after the Substantial Completion Date |
| Total Completion Target Date | The last day of the month which is the third complete calendar month to end after the month in which the Substantial Completion Date occurs |
| Availability Demonstration Completion Target Date | The first anniversary of the Service Commencement Date |
| TIDS Performance Demonstration Completion Target Date | The first anniversary of the Service Commencement Date |