

The following changes to the tender documents are effective immediately and will form part of the contract documents:

Specification 03 30 00

- Add:** 1.6.5 The Contractor shall submit a deck or deck overlay concrete placement procedure to the Departmental Representative for review and acceptance a minimum of 4 weeks prior to the Works taking place. The deck pour placement procedure shall include, but not be limited to, documentation outlining compliance with all specification requirements. Review comments shall be incorporated into the deck or deck overlay concrete placement procedure to the satisfaction of the Departmental Representative and resubmitted prior to the commencement of the Work.”
- Add:** 2.4.11 The temperature of any type of concrete shall be between 10°C and 25°C at discharge. Temperature requirements for deck overlay, sidewalk, barrier & curb, approach slab, diaphragm and expansion joint concrete (Mix Type M3 & M4) shall not be less than 10°C, nor more than 20°C. Temperature requirements for any concrete containing silica fume shall be between 10°C and 18°C at discharge.
- Add:** 3.3.6 A vibratory screed may be utilized in place of the finishing machine specified in Clause 3.3.1 provided that the Contractor can show in sufficient detail in the concrete placement procedure outlined in Section 1.6 that the placing/finishing machine cannot be utilized. The Contractor shall submit to the Departmental Representative the specific details of the vibratory screed to be utilized including the make and model.
- 3.3.6.1. The maximum width of placement with the vibratory screed shall be 3.0 m.
- 3.3.6.2. Internal vibrators shall be used in all sections of concrete placed, with vibration only supplemented by screed-type vibrators.
- 3.3.6.3. The vibratory screed shall be capable of meeting the finish requirements specified in Section 3.5 and the surface tolerance requirements specified in Section 3.9.
- 3.3.6.4. The vibratory screed shall not be used for any deck pours that cross the crown of the bridge deck.
- Delete:** 3.10.7 The temperature of the deck overlay, sidewalk, barrier & curb, approach slab, diaphragm and expansion joint concrete (Mix Type M3 & M4) shall not be less than 10°C, nor more than 18°C, at the time of placing, and shall be maintained below this maximum temperature by the inclusion of ice to the mix as approved by the Departmental Representative, taking care to maintain the design water/cementitious ratio.

Replace With: 3.10.7 The temperature of the deck overlay, sidewalk, barrier & curb, approach slab, diaphragm and expansion joint concrete (Mix Type M3 & M4) shall not be less than 10°C, nor more than 20°C, at the time of placing, and shall be maintained below this maximum temperature by the inclusion of ice to the mix as approved by the Departmental Representative, taking care to maintain the design water/cementitious ratio.

Delete: 3.12.7 Utilize heated mix water and/or aggregate to achieve concrete temperature between 15°C and 25°C at the time of depositing into the forms.

Replace With: 3.12.7 Utilize heated mix water and/or aggregate to achieve concrete temperature between 10°C and 25°C at the time of depositing into the forms.

Delete: 3.13.3 Take hot weather precautions when concrete temperature at any time exceeds 25°C.

Replace With: 3.12.3 Take hot weather precautions when the ambient air temperature at any time exceeds 25°C.

Specification 09 97 19

Delete: 3.4.2 Apply paint after prepared surfaces have been inspected by NACE CIP Level 3 Inspector and accepted by Departmental Representative.

Replace With: 3.4.2 Prepared surfaces as well as newly metalized surfaces shall be inspected prior to metallizing by NACE CIP Level 3 Inspector a minimum of once per week and accepted by Departmental Representative.

Enquiries received during the Solicitation Period:

1. Appendix 5 page 23 of 45 – Mandatory requirements for Traffic Management:

Mandatory requirement for the Traffic Signal Specialists identifies the requirements. Please clarify, can the Mandatory Requirements for the “Traffic Signal Specialist” be met by a team of 2 people whose combined qualifications exceed the requirements?

i.e. would a team of two people with the following qualifications be considered a Pass (person 1 would create all the plans and put the data together, and person 2 would then review and stamp)?

Person 1: 10 years or more’ experience in providing traffic signal design, experience in assessment and re-timing of traffic signals at intersections and interchanges and service intersections utilizing commercial modelling software and is a Registered Engineer in several provinces but not Manitoba, but will be working under and with Person 2.

Person 2: 20+ years of experience in traffic management and signal design, experience in assessment and re-timing of traffic signals at intersections and service interchanges and is a Registered Engineer in Manitoba.

- Response: The requirements have been amended (see above). The Traffic Signal Specialist can either be currently registered in the Province of Manitoba, or have the ability to become registered within 60 days of Project Award.
2. Has construction live loading been accounted for in the design of the new west approach span floor beam extensions and Truss Span 7 floor beams? Will the Contractor have to provide any additional support to account for the construction live load?
 - Response: The limiting element in the beam extensions for the west approach span and truss 7 beam extensions is the tie rods. These beam extensions can support 4.8 kPa live load.
 3. What is the connection detail between the existing deck and stringers on truss spans 1-7? Do the stringers have nelson studs, or a similar connection detail connecting the concrete to steel? What about between the floor beams and concrete (similar detail).
 - Response: The only existing information on the concrete deck for Main Truss Spans 1-7 is from the 1949 Bridge Improvement Drawings, Sheet 3 of 3. These have been added to the Media Package.
 4. Once the deck for truss spans 1-7 is removed in Stage 2 construction the existing concrete deck is cantilevered without any support on the outside edge. Is there any concern with this cantilever supporting the precast barriers and vehicular live load during Stage 2?
 - Response: Refer to Specification 01 54 23 Clause 3.2.3.
 5. In specification section 03 30 00 there is a contradiction for the temperature requirements of the concrete. Clause 3.10.7 indicates concrete must be supplied between 10C and 18C, clause 3.12.7 indicates supply between 15C and 25C, and 3.13.3 speaks of taking precautions if the temperature is above 25C. Supplying concrete within a temperature range of 10C and 18C is more stringent than CSA requirements and is typically only seen with the addition silica fume. Please clarify the required temperature range for the supply of concrete.
 - Response: The temperature requirements for Deck Overlay, Sidewalk, Curbs, Traffic Barriers, Expansion Joint End Dams, and Approach slabs shall be between 10° Celsius and 20° Celsius at discharge. If silica fume is used 18° Celsius at discharge still applies. 3.12.7 has been modified to state 10C to 25C, 3.13.3 has been revised to state that precautions shall be taken if the ambient air temperature is above 25C which is consistent with Section 1.10.
 6. Specification clause 3.3 Placing/Finishing Machine specifies the use of a bridge deck paving machine such as a Bidwell bridge deck paver. With the narrow widths of deck paving to be completed in stages 1 and 2 the use of such a paving machine will physically not fit. Would the use of a Morrison Truss Screed, which is more versatile and better suited for this project, be acceptable?
 - Response: A vibratory truss screed is acceptable provided that the Contractor can show that the type of screed currently specified cannot be placed sufficiently and utilized. If a vibratory screed is used, internal vibrators shall still be used in all sections of concrete placed, with vibration only supplemented by screed-type vibrators. The finish requirements specified in Section 3.5 and the surface tolerance requirements specified in Section 3.9 shall still be met regardless of the type of screed used. The maximum pour width to be screeded with a vibratory

screed shall not exceed 3.0 m. The use of vibratory screeds is only permitted for pours of a constant cross slope, the vibratory screed shall not be used for pours taking place over the crown of the bridge deck. See modifications to the specifications.

7. Please confirm if abrasive blast cleaning will be required on the precast deck panels prior to placing new bridge deck concrete. Please clarify if abrasive blast cleaning will be required on the east and west approach spans after the existing deck concrete has been removed by means of hydro-demolition.

- Response: Abrasive blast cleaning is not required for the partial depth deck panels. Refer to Specification 03 41 00 Clause 2.4.2. Abrasive blast cleaning will not be required for the east and west approach spans following partial depth demolition, refer to specification 03 01 30.07 for requirement for rehabilitation of cast-in-place concrete. The Contractor is still required to thoroughly clean the surfaces prior to placement of deck overlay concrete.

8. Specification Division 01 – Section 01 35 43 Migratory and Protected Bird Management:

Item 1.7.2. – states “The Departmental Representative will install measures to prevent nesting on the existing structure prior to the Contractor accepting control of the site.”

Item 1.7.2.1. – states “PSPC is providing these preventative nesting measures and information “as is” without warranty of any kind, implied or express, nor does PSPC state that the measures are accurate or complete, and they are provided without any warranty of the suitability for their intended purpose. The Contractor shall be fully responsible for the design, fabrication, installation, inspection, modification and maintenance of deterrents as needed to ensure the project isn’t delayed by nesting. The Departmental Representative will continue to conduct visual inspections to assess the presence of birds or bird nests on the structure and around the project site as well as maintain the existing deterrents on site for a period of 30 days following the signing of the Contract, or until the Contractor has mobilized to site, whichever comes first.”

Item 1.7.3. – states “After this 30-day period follow signing of the Contract, or after the Contractor mobilizes to site, the Contractor shall assume the risk and responsibility for inspection and maintenance of deterrents.”

Item 1.7.14 – states “any costs or delays associated with accommodating active bird nests shall be the responsibility of the Contractor.”

Please confirm, that any costs or delays associated with accommodating active bird nests will only come the responsibility of the Contractor, on signing of the Contract plus 30 days as per item 1.7.2.1, or until the Contractor has mobilized to site, whichever comes first.

- Response: The Contractor will only be responsible for costs or delays associated with accommodating active nests once they have taken responsibility for the site as defined in the specification.

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Please clarify, Item 1.7.3 in that, if before or thereafter, the signing of the Contract and within the period of 30 days, or until the Contractor has mobilized to site, that active bird nests are established on site, what is the intended outcome in terms of costs or delays and responsibilities.

Response: PSPC are taking measures to prevent the development of active nests prior to handover to the Contractor. Should an active nest develop prior to handover a minimum setback would need to be established around this area. PSPC will work with their Avian Ecologist and ECCC to determine what can be done with the nest.

9. The following request for equal has been received:

Type	Manufacturer	Specified Part Number	Manufacturer	Proposed Equal Part Number	Status
B	COOPER	GAP-AF-01-LED-U-T4FT-7030-1200-DP	Lithonia	RSX1 LED P1 30K R4 HVOLT RPA BS DNAXD	
C	COOPER	GAP-AF-01-LED-U-T2-7030-1200-QM	Lithonia	RSX1 LED P1 30K R2 HVOLT RPA BS DNAXD	
E	LUMARK	WPSLED10	Lithonia	TWR1 LED ALO 40K 347 DDBTXD	
F	COOPER	VAL-F03-LED-E-U-GL2	HOLOPHANE	TNLEDMED PK1 40K HVOLT UDP DGRA LTCH	

- Alternate fixture types B, C, and D do not meet the requirements as equivalent alternates. Type F fixtures are not being replaced as part of this Contract.

END OF ADDENDUM NO. 6