

EXHIBIT CC

Scope Document

Original signed page on file with
VDOT

Reference: Exhibit C of the Comprehensive Agreement – Technical Requirements for the Downtown Tunnel, Midtown Tunnel, MLK Extension Project

SKW will be responsible for the Technical Requirements referenced above, except for those paragraphs indicated below, where the responsibility for a technical requirement is either shared between SKW and ERCO or is solely the responsibility of ERCO.

Technical Requirement Paragraph	ERCO Responsibility	SKW Responsibility
1.3.2 A. Water Quality Permits	All Water quality permits other than those pertaining to the construction of the Project.	Water quality permits pertaining to the construction of the Project.
1.3.3 A. Hazardous Materials Investigation	Required studies not related to the construction operations.	Studies, within the construction limits of the Project only, to the extent required for the construction operations.
1.3.5 Environmental Stipulations	Affidavits for facilities used by ERCO in the performance of the Comprehensive Agreement, other than those used by SKW in the performance of the DB Agreement.	Affidavits for facilities used by SKW in the performance of the DB Agreement.
1.3.6 B. Erosion and Siltation	Erosion and Siltation control measures other than those required by SKW in performance of the DB Agreement.	Temporary erosion and siltation control measures required by SKW in performance of the DB Agreement.
1.3.8 A.22.d. Noise Mitigation	Access doors size and location shall be agreed upon between VDOT, First Responders and Concessionaire prior to fabrication. ERCO to provide timely design input to SKW regarding access door sizes and locations.	Place note on construction plans requiring concurrence from VDOT, First Responders and Concessionaire on access door sizes and locations prior to fabrication.
1.6.2 C. SWPPP	Entire paragraph.	None.

Paragraph	ERCO Responsibility	SKW Responsibility
1.9.1 A. Pavement Markings	Maintain pavement markings and markers per Section 9.03 of the Design-Build Agreement and when damaged by ERCO activity (snow removal, etc.).	Maintain pavement markings and markers per Section 9.03 of the Design-Build Agreement.
1.9.2 J. Signing	Maintain existing construction signs per Section 9.03 of the Design-Build Agreement and when damaged by ERCO activity.	Maintain existing construction signs per Section 9.03 of the Design-Build Agreement.
1.9.3 E.1. Traffic Signals	New traffic signals on the Project shall be integrated with existing traffic signals. Note acknowledgment that there are other stakeholders, including VDOT and ERCO. SKW cannot be held responsible if signals have a negative effect on ERCO traffic and revenue.	Design, program, adjust controller timings, test, and commission the new signalized intersections for coordinated operations matching the maintaining agency's existing coordination plans.
1.9.3 E.2. Traffic Signals	Entire paragraph.	None.
1.9.3 G. Traffic Signals	Traffic Control Plans. MOT Plans other than those required as part of the SKW scope of work in the DB Agreement.	MOT Plan for SKW scope of work in the DB Agreement only.
1.12 D.2. Lighting	New or Modified Lighting in the Existing Midtown Tunnel.	New Midtown Tunnel Lighting.
1.14.5 Toll Gantries	Entire Section.	None.
1.15.1 E. Flood Protection	The existing flood gate on the Norfolk portal of the existing tunnel shall continue to be maintained in an operable state.	Flood protection shall be provided on the Norfolk Portal of the new Midtown Tunnel.
1.15.1 H. Flood Protection	The Concessionaire shall maintain flood protection features throughout the concession period, taking into account the global stability of the flood protection features.	Design height of levees, embankments or revetments.

Paragraph	ERCO Responsibility	SKW Responsibility
1.15.3 B. Disaster Recovery	The Concessionaire shall consult with the relevant authorities (e.g. FHWA, VDOT, USACE, Federal Emergency Management Agency (FEMA), and Department of Homeland Security (DHS)) and prepare the necessary documentation, such as a Safety Response Plan, and an Emergency Response Plan.	Provide technical support during the construction period.
1.15.4 D. Tunnel Protection Layer	Entire paragraph.	None.
1.15.4 E. Tunnel Protection Layer	Entire paragraph.	None.
1.15.4 F. Tunnel Protection Layer	Entire paragraph.	None.
1.15.8 C. Protection of Existing Tunnel	Entire paragraph.	None.
1.15.15 D. 13. Design Review and Comment	Entire paragraph.	None.
1.15.15 D. 15. Design Review and Comment	Entire paragraph.	None.
1.15.15 D. 16. Design Review and Comment	Entire paragraph.	None.
1.15.15 D. 17. Design Review and Comment	Entire paragraph.	None.

Paragraph	ERCO Responsibility	SKW Responsibility
1.15.19 B. Existing Tunnel Refurbishment	Entire paragraph.	None.
1.15.19 D.	Entire paragraph, except for items identified in the Rehabilitation Plan scope of work.	Items identified in the Rehabilitation Plan scope of work.
1.15.19 E. Existing Tunnel Refurbishment	Entire paragraph.	None.
1.15.19 F. 2. Existing Tunnel Refurbishment	Program of further survey and testing to be undertaken to verify the current condition and enable planning or remedial works and ongoing maintenance.	Incorporate ERCO timely input into Technical Requirements for Existing Tunnel Refurbishments.
1.15.19 F. 4. Existing Tunnel Refurbishment	Classification of defects such that action can be determined and records maintained throughout the concession period.	Incorporate ERCO timely input into Technical Requirements for Existing Tunnel Refurbishments.
1.15.19 F. 5. Existing Tunnel Refurbishment	Preparation of Traffic Management Plans at local and District level during the refurbishment works for review by VDOT.	Incorporate ERCO timely input into Technical Requirements for Existing Tunnel Refurbishments.
1.15.19 F. 7. Existing Tunnel Refurbishment	Entire paragraph.	None.
1.16.1 E. 1. d. iv. General	Entire paragraph.	None.

Paragraph	ERCO Responsibility	SKW Responsibility
<p>1.16.1 F. 1. a.</p> <p>General</p>	<p>All meetings shall be convened and recorded by the Concessionaire. Prior to commitment to detailed design of the principal safety related systems, the Concessionaire shall prepare a Summary Report confirming the agreement in the meetings of all FLSC participants to the design of the tunnel and its systems and the proposed means of operation and emergency response.</p> <p>All meetings other than those related to the construction of the new Midtown Tunnel and required by the DB Agreement.</p>	<p>Meetings relating to construction of the new Midtown Tunnel within the scope of work in the DB Agreement.</p>
<p>1.16.2 B. 2. a.</p> <p>Tunnel Ventilation</p>	<p>The following air quality parameters shall be continuously monitored. The ventilation system shall be designed and automatically controlled to maintain air quality below the following thresholds under all reasonably foreseeable traffic conditions, including bi-directional traffic flow under emergency or maintenance operations:</p> <ul style="list-style-type: none"> i. Carbon monoxide (CO) ii. Nitrogen dioxide (NO₂) 4.0 ppm iii. Obscuration: <ul style="list-style-type: none"> a). Free-flowing traffic • 0.002 per ft b). Congested traffic • 0.003 per ft 	<p>Design and construction only.</p>
<p>1.16.2 B. 2. b.</p> <p>Tunnel Ventilation</p>	<p>Provision shall be made for continuous monitoring of CO under stationary traffic conditions to ensure that the following exposure times are not exceeded:</p> <ul style="list-style-type: none"> i. 120 ppm for 15 minutes; ii. 65 ppm for 30 minutes; iii. 45 ppm for 45 minutes; and iv. 35 ppm for 60 minutes. <p>Fresh air requirements shall be calculated on the basis of predicted vehicle emissions for the year 2020, taking into consideration the likely spread of vehicle ages, standards of maintenance and traffic speeds.</p>	<p>Design and construction only.</p>

Paragraph	ERCO Responsibility	SKW Responsibility
1.18 Tolling and Traffic Management System	Entire Section except TMS as it applies to ITS.	TMS as it applies to ITS.
1.19 Maintenance During Construction	Maintain per Section 9.03 of the Design-Build Agreement.	Maintain per Section 9.03 of the Design-Build Agreement.
1.20 As-Built Records	As-builts other than those applicable to the SKW scope of work.	As-builts applicable to the SKW scope of work.
1.20 D. 1. As-Built Records	Entire paragraph.	None.
1.20 D. 2. As-Built Records	Entire paragraph.	None.
1.20 D. 4. As-Built Records	Entire paragraph.	None.
Section 2 Public Info and Comms	General principle is that ERCO will rely on SKW to provide input, while ERCO and VDOT are responsible for distributing communications.	Provide verbal input regarding construction activities to ERCO and VDOT. No computer models or animations.
3.2.3 Quality Management System	Entire Section, except for items applicable to the SKW scope of work.	The SKW QMSP covers items in the SKW scope of work.
3.2.6 VDOT Staff	Entire paragraph.	None.

Paragraph	ERCO Responsibility	SKW Responsibility
3.3.2 A. Project Development Plans – Also applies to Appendix 3A	All plans except for Document Management Plan (relating to SKW scope of work), Quality Management System Plan (relating to SKW scope of work), Design Management Plan (relating to SKW scope of work), Environmental Management Plan (relating to SKW scope of work), ROW Acquisition Plan (relating to SKW scope of work), Utilities Plan (relating to SKW scope of work), MOT Plan (relating to SKW scope of work), DBE/SWaM Plan (relating to SKW scope of work), and Health, Safety, and Security Plan (relating to SKW scope of work).	Document Management Plan (relating to SKW scope of work), Quality Management System Plan (relating to SKW scope of work), Design Management Plan (relating to SKW scope of work), Environmental Management Plan (relating to SKW scope of work), ROW Acquisition Plan (relating to SKW scope of work), Utilities Plan (relating to SKW scope of work), MOT Plan (relating to SKW scope of work), DBE/SWaM Plan (relating to SKW scope of work), and Health, Safety, and Security Plan (relating to SKW scope of work).
3.4 Schedule	Provide timely schedule updates for all non-SKW work.	Develop and maintain project schedule for SKW and Tolling contractor, based on monthly input from tolling contractor.
3.4.1 C. Schedule	Entire paragraph.	None.
3.8.1 A. General Requirements	Entire paragraph.	None.
3.8 Work Restrictions	MOT for non-SKW scope of work.	SKW to perform the responsibilities of the MOT engineer as described in the TR's section 3.9.1.C.2 for the portions of work performed by SKW
3.9.1 C. General Requirements	Entire paragraph.	None.
3.10 D. Reporting	Entire paragraph.	Provide input for reports in 3.10 as pertaining to the SKW scope of work.

Paragraph	ERCO Responsibility	SKW Responsibility
3.10 E. Reporting	Entire paragraph.	Provide input for reports in 3.10 as pertaining to the SKW scope of work.
3.10 G. Reporting	Entire paragraph.	None.
3.12 Emergency Services	All except as pertaining to SKW's scope of work.	As pertaining to the SKW scope of work.
3.13 Safety	All except for items that pertain to SKW's scope of work.	As pertaining to the SKW scope of work.
Section 4 Operations, Maintenance, and Tolling	Entire Section, including all attachments.	None.

Additional Scope Clarifications:

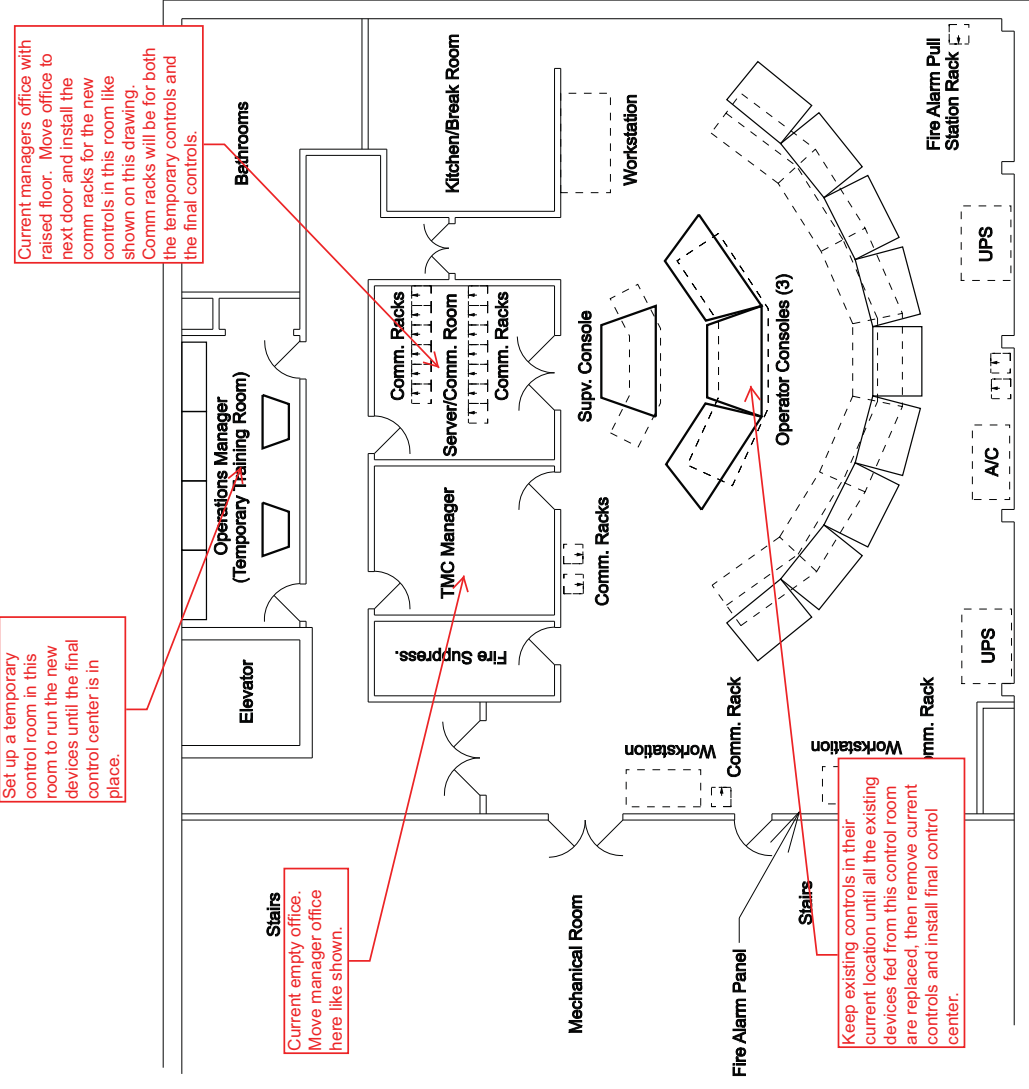
Control Room Staging: To be performed in accordance with the attached sketch titled "Downtown Tunnel Control Room Video Wall/Console Integration Sequence".

Crash Houses: No modification will be performed to the existing crash houses.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC OR TO THE SAFETY OF THE PUBLIC WHICH ARE NECESSARY BY THE DEPARTMENT

DATE	REVISED	BY	REASON FOR REVISION	DATE	BY
11/26/14	US-58	IA			
MIDTOWN & DOWNTOWN TUNNEL PROJECT ITS CONCEPT SUBMITTAL					

DOWNTOWN TUNNEL CONTROL ROOM VIDEO WALL / CONSOLE INTEGRATION SEQUENCE



Set up a temporary control room in this room to run the new devices until the final control center is in place.

Current managers office with raised floor. Move office to next door and install the comm racks for the new controls in this room like shown on this drawing. Comm racks will be for both the temporary controls and the final controls.

Current empty office. Move manager office here like shown.

Keep existing controls in their current location until all the existing devices fed from this control room are replaced, then remove current controls and install final control center.

- DTT Control Center:**
1. Move the manager's office from it's current location to the empty office next door, same as originally shown on PBSJ drawings.
 2. Install the comm racks and servers in the old manager's office, as shown on PBSJ drawings. These servers will run both the temporary control center and the permanent control center.
 3. Install a temporary control room to run the new devices as they are installed in the "Operations Manager" room.
 4. After installation of all the new devices and systems, Remove the existing control center and install the new control system in it's place.
 5. Switch the controls from the temporary control center to the new permanent control center, fed from the same servers and comm equipment in the server room.
 6. Switch the temporary control center over to a training center.
- MTT Control Center:**
1. After the existing MTT devices are replaced with ones controlled from the DTT Control Center, remove and replace the existing MTT control center with a new one to be used as a backup.

