

# Protective Coatings - 2016

Pre-Bid Meeting and Site Visit

September 8<sup>th</sup>, 2016



# **PC-2016 - Agenda**

- **Sign in Sheet**
- **Introductions**
- **Prequalification Requirements**
- **Contract Documents**
- **Structures**
- **Work Locations**
- **Cleaning and Coating**
- **Other Work Items**
- **Vertical Height Restrictions**
- **Maintenance of Traffic**
- **Summary**
- **Contract Timeline**
- **Site Visit**

# PC-2016 - Prequalification

- Bidding Requirements
  - Currently Pre-qualified with VDOT under “Painting of Bridges & Structures” classification.
  - SSPC QP-1 and QP-2 certified. In lieu of QP-2 certification, Contractor can employ a certified CIH.
  - Experience Requirements
    - Bidder - SSPC SP-10 Abrasive Blast Type B minimum of 150,000 SF.
    - Supervisor - SSPC SP-10 Abrasive Blast Type B structures – minimum 75,000 SF.

# PC-2016 - Contract Documents

- Contract Book
  - Broken down into three sections:
    - Contract & Bid Documents
    - Supplemental Specifications to the 2007 VDOT Specifications
    - Special Provisions
    - CSXT Submittal – Schedule I
- Appendix (Record drawings of all structures.)

(Paper copies available for \$50, or download from [www.rmaonline.org](http://www.rmaonline.org))

- Email [mfoster@hntb.com](mailto:mfoster@hntb.com) for a link to FTP site for the Appendix

# PC-2016 - Structures

- Zone Coat Structures
  - All surfaces within 5' of girder end.
  - Bridges: 5, 12, 36, and 37
- Boulevard Bridge Span 19
  - Twin Girder (Primary Members) between Piers 25-26
- Miscellaneous Coatings
  - As directed by the Engineer
  - Bridge 5: areas outside of the zone coating
  - Bridge 63
  - Bridge 66
  - Boulevard Bridge (other areas as directed)

# PC-2016 - Structures

- Structures are assumed to be Type B (hazardous paint).
- Specifications shall be VDOT 2007 Specs with amendments included in RMTA's Supplemental Specifications.
- Supplemental Specifications and Special Provisions are Included in Contract Book.

# Work Locations

- **Bridge 5 – Zone Coat Structure**
  - This bridge carries Norfolk Southern RR over Powhite Parkway (VA 76).
  - Steelwork shall be painted at both abutments 5' out from the backwall.
  - Steelwork shall be painted at all piers out 5' in both directions.
  - Cleaning shall be in accordance with SSPC – SP10 “Near-White Metal Blast” in addition to Section 411.04 – General Surface Preparation and Application Standards. Painting shall be in accordance with Section 411.04(B) – General Surface Preparation and Application Standards – Physical Application.
  - Available Work times vary depending on the direction of travel on Powhite Parkway. (See SP-B)

# Bridge 5 Powwhite Parkway





# Bridge 5 Zone Coating



# Work Locations

- Bridge 12 – Zone Coat Structure
  - This bridge carries Douglasdale Road over the Downtown Expressway Connector (Route 146).
  - Steelwork shall be painted at both abutments 5' out from the backwall.
  - Steelwork shall be painted at all piers out 5' in both directions.
  - Cleaning shall be in accordance with SSPC – SP10 “Near-White Metal Blast” in addition to Section 411.04 – General Surface Preparation and Application Standards. Painting shall be in accordance with Section 411.04(B) – General Surface Preparation and Application Standards – Physical Application.

# Bridge 12 Douglasdale Road



# Bridge 12 Zone Coating



# Work Locations

- **Bridge 36 – Zone Coat Structure**
  - This bridge carries Maplewood Avenue over the Downtown Expressway Connector (Route 146).
  - Steelwork shall be painted at both abutments 5' out from the backwall.
  - Steelwork shall be painted at the pier out 5' in both directions.
  - Cleaning shall be in accordance with SSPC – SP10 “Near-White Metal Blast” in addition to Section 411.04 – General Surface Preparation and Application Standards. Painting shall be in accordance with Section 411.04(B) – General Surface Preparation and Application Standards – Physical Application.



# Bridge 36 Maplewood Avenue



# Bridge 36 Zone Coating



# Work Locations

- Bridge 37 – Zone Coat Structure
  - This bridge carries Grant Street over the Downtown Expressway Connector (Route 146).
  - Steelwork shall be painted at both abutments 5' out from the backwall. Note: North abutment coated in 2013.
  - Steelwork shall be painted at all piers out 5' in both directions.
  - Cleaning shall be in accordance with SSPC – SP10 “Near-White Metal Blast” in addition to Section 411.04 – General Surface Preparation and Application Standards. Painting shall be in accordance with Section 411.04(B) – General Surface Preparation and Application Standards – Physical Application.



# Bridge 37 Zone Coating



# Bridge 37 Zone Coating



# Work Locations

- Boulevard Bridge – **Span 19**
  - This bridge carries Westover Hills Boulevard (VA 161) over the James River, Norfolk Southern and CSXT Railroads.
  - Two girder system.
  - Remove loose paint and clean the primary girders and coat primary members, floor beam ends and bearing assemblies at Piers 25-26. **Floor Beam Ends are not Type B hazardous.**
  - Clean using Method 3 (SSPC-SP-3).
  - Location between Piers 25-26 over the CSXT RR.

# Work Locations

- Boulevard Bridge – **Span 19**
  - The Boulevard Bridge is a Weight Limited structure with a maximum load of 7,500 pounds.
  - Norfolk Southern Railroad runs under the twin girder section of the bridge located south of the James River.
  - CSXT Railroad runs under the twin girder section of the bridge in Span 19 located north of the James River.
  - Access below the bridge will require construction approval and permission from CSXT to cross the tracks
  - Work is planned directly above and adjacent to CSXT railroad tracks
  - Access from the deck will require roadway flaggers and is subject to times specified in the MOT Special Provision.

# Boulevard Bridge





# Boulevard Bridge Span 19



# Miscellaneous Locations

- Boulevard Bridge – Miscellaneous Coating (Areas **other than Span 19**)
  - This bridge carries Westover Hills Boulevard (VA 161) over the James River, Norfolk Southern and CSX Railroads.
  - Two girder and Truss system
  - Remove Loose Paint and clean localized fascia girder ends, floor beam ends and bearing assemblies
  - **Floor Beam Ends are not Type B hazardous.**
  - Clean using Method 3 (SSPC-SP-3).
  - Various floor beam locations along the downstream (east) side of the bridge.
  - No work is anticipated over the NS Railroad

# Miscellaneous Locations

- **Bridge 5 – Miscellaneous Coating**
  - This bridge carries Norfolk Southern RR over the Powhite Parkway (VA 76).
  - Re-coat isolated structural members which show corrosion and possible minor section loss.
  - Clean using Method 3 (SSPC-SP-3).
  - Penetrating Primer/Sealer.
  - Available Work times vary depending on the direction of travel on Powhite Parkway. (See SP-B)
  - Engineer will specify work locations.



# Bridge 5 Powwhite Parkway



# Bridge 5



# Miscellaneous Locations

- **Bridge 66 – Miscellaneous Coating**
  - This bridge carries Eastbound Downtown Expressway (Route 195) to the ramp connections to Northbound and Southbound I-95.
  - Localized fascia girder.
  - Clean using Method 3 (SSPC-SP-3).
  - Penetrating Primer/Sealer.
  - Available Work times vary depending on the direction of travel on DTE. (See SP-B)
  - Engineer will specify work locations.

# Bridge 66 EB Downtown Expressway





# Bridge 66



# Miscellaneous Locations

- **Bridge 63 – Miscellaneous Coating**
  - The bridge carries westbound Route 195, which is the RMTA's Downtown Expressway, from the I-95 ramp connections, over Virginia Street, South 14<sup>th</sup> Street (US 360) and CSX Railroad.
  - Localized fascia girder.
  - Clean using Method 3 (SSPC-SP-3).
  - Penetrating Primer/Sealer
  - Engineer will specify work locations.

# Bridge 63 WB Downtown Expressway



Elevation View (Bridge 63 is the lower bridge and Bridge 66 is the upper bridge)

# Bridge 63





# Zone Coating

- Surface Preparation:
  - VDOT Method 1 (SSPC SP-1) solvent cleaning.
  - Method 7: 3,000 psi Pressure wash using Chlor-rid, where soluble salt levels are above 5 mg/cm<sup>2</sup>. This may be skipped depending on measured soluble salt levels and steel condition.
  - Method 5 (SSPC SP-10): Near white metal abrasive blast cleaning.
- Coating System: VDOT Type “B” structures
  - AMERCOAT 68HS – Zinc Rich Epoxy Primer 2-5 mils D.F.T.
  - AMERCOAT 399 – Fast Dry, High Solids Epoxy 4-8 mils D.F.T.
  - AMERCOAT 450H – Gloss Acrylic Aliphatic Polyurethane 2-3 mils D.F.T.
  - Contractor must submit paint system for review and approval by RMTA and Engineer.

# Miscellaneous Coating

- Surface Preparation:
  - VDOT Method 1 (SSPC SP-1) solvent cleaning.
  - Method 7: 3,000 psi Pressure wash using Chlor-rid, where soluble salt levels are above 5 mg/cm<sup>2</sup>. This may be skipped depending on measured soluble salt levels and steel condition.
  - Method 3 (SSPC SP-3): Power Tool cleaning.
- Coating System:
  - AMERLOCK Sealer Primer 1-2 mils D.F.T.
  - AMERCOAT 399 Epoxy 4-8 mils D.F.T.
  - AMERCOAT 450H Acrylic Aliphatic Polyurethane 2-3 mils D.F.T.
  - Contractor must submit paint system for review and approval by RMA and Engineer.
  - Payment is per S.F. of surface area. The minimum payment per location will be 10 S.F..

# Vertical Clearance Restrictions

- A vertical clearance of 14'-0" shall be maintained at all times.
- Contractor is required to field verify all measurements.

# Other Work Items

- Maintenance of Traffic
  - Lump Sum per Structure for Bridges 5,12,36 & 37.
  - Payment for MOT required at Miscellaneous Coating locations and Boulevard Bridge Span 19 shall be paid for in accordance with Electronic Arrow, Group 2 Channelizing Devices, Flagger Service and Truck Mounted Attenuator bid items listed in Section 512.
  - Contractor required to submit MOT plans 7 days prior to closing any ramp or lane to Engineer for approval.
  - Allowable lane closure times and restrictions indicated in Special Provision SP-B.
  - No lane closures during the Richmond Folk Festival (10/7 to 10/10) and Anthem Richmond Marathon (11/11 to 11/12).

# Other Work Items

- Maintenance of Traffic

## Liquidated damages

- RMTA reserves the right to charge damages of \$1,000 per every 15 minutes a lane closure is in place beyond prescribed time or lane closure is in place for more than 1 hour before or after active work is on-going.

## Certified Personnel

- Contractors foreman (or other on-site employee) must be properly trained. Training requirements is the “Basic WZTCT” course provided by VDOT.
- If a trained employee is not on site, RMTA reserves the right to charge damages of \$1,000 per day.

# Summary

## Things to Remember

- 30 days Advance Notice before beginning work is required at certain locations.
- Liquidated Damages apply for violating the prescribed time for lane closures.
- Contractor must coordinate with other contractors that may be performing other services for RMTA.
- Contractor will be expected to participate in weekly coordination meetings, typically on Wednesday morning.
- The required Site Visit will begin in ~10 minutes.

# Contract Timeline

- Pre-bid meeting and site visit – Sept. 8, 2016
- Bid's Due - 10:00 AM on Sept. 22, 2016 at RMTA Main Office
- Contract completion date – March 1, 2017
- Coordinate any site visits with:  
Glen Parker (804-938-3963)
- Submit questions before 1PM on 9/16/2016 to:  
Matt Foster, PE mfooster@hntb.com  
(804-523-3352)

