

Statement of Work  
Repair Water Tower Footings  
Project # 623-14-102

Contractor shall furnish all labor and materials to perform construction for Project 623-14-102 Repair Water Tower Footings at Jack C. Montgomery VA Medical Center. Two perimeter footers above grade and center footer above grade are considered “major repair” and two perimeters below grade footers considered “minor repair”.

Contract shall be completed within 90-days after issuance of the Notice to Proceed.

Extent of work includes the following:

Corroded steel surface on the column base shall be stripped of its existing coating, cleaned and sandblasted before application of a layer of coating. The new coating shall be one of the three products listed below and meet the all the following warranty and surface preparation requirements. Provide submittals on chosen products.

**EXISTING FERROUS METAL, ZINC 3 COAT SYSTEM WITH 1 YEAR  
CONTRACTOR’S WARRANTY PLUS 10 YEAR CONTRACTOR’S AND  
MANUFACTURER’S WARRANTY**

Surface Preparation: All surfaces must be clean, dry, and free of oil, grease, and other contamination. Remove all existing coating. Prepare all surfaces per SSPC-SP6 Commercial Blast Cleaning.

**Product No. 1**

**CARBOLINE COATING SYSTEM:**

**FIELD PRIME:** Carbozinc 859 3.0 - 5.0 mils DFT

**INTERMED:** Carboguard 893 SG 6.0 – 8.0 mils DFT

**FINISH COAT:** Carbothane 133 HB 3.0 – 5.0 mils DFT

**Total Thickness Minimum 12.0 mils DFT**

**Product No. 2**

**TNEMEC COATING SYSTEM:**

**FIELD PRIME:** Tnemec Series 90-97 Tnemec-Zinc 2.5 - 3.5 mils DFT

**INTERMED:** Tnemec Series 27 FC Typoxy 4.0 - 6.0 mils DFT

**FINISH COAT:** Tnemec Series 1075 Endura-Shield 2.0 - 3.0 mils DFT

**Total Thickness Minimum 8.5 mils DFT**

**Product No.3**

**SHERWIN WILLIAMS SYSTEM:**

**FIELD PRIME:** SW Corothane I Galvapak Zinc Primer 3.0 - 6.0 mils DFT

**INTERMED:** SW Macropoxy 646 Fast Cure Epoxy 4.0 - 6.0 mils DFT

**FINISH COAT:** SW Acrolon 218 HS Acrylic Polyurethane 3.0 - 6.0 mils DFT

**Total Thickness Minimum 10.0 mils DFT**

In order to prevent further deterioration of the concrete foundation, repair any spalled damages present on the concrete. For major repair at locations where the concrete edges and surfaces are severely spalled off; the following steps shall be performed:

Step 1: Saw cut a clean and straight joint at minimum the top 1-3/4 to 2 inch from the surfaces and then carefully chisel until sound and clean concrete is exposed (refer attached sketch SKS-1 for additional details). Clean and remove all loose concrete debris and dust. Extra caution shall be taken to prevent any further damage to the existing foundation caused by excessive cutting or use of excessive force for demolition.

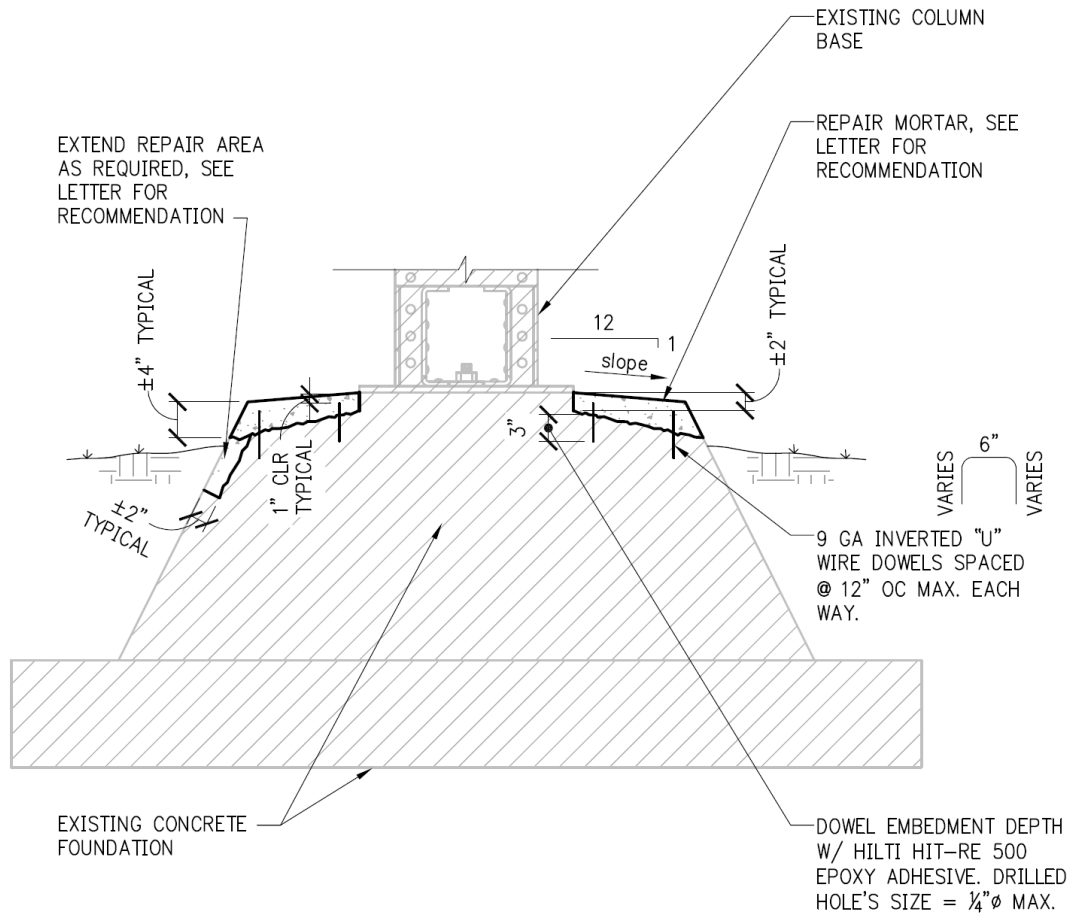
Step 2: Embed 9 gauge inverted "U" dowels into existing sound concrete (refer attached sketch SKS-1). Placement spacing of the "U" dowels shall be not more than 12 inch on center orthogonally. Inverted "U" dowels shall be embedded at least 3 inches into existing concrete with application of Hilti HIT-RE 500 Epoxy Adhesive. Drilled holes shall be cleaned thoroughly prior to application of epoxy and hole's size shall not exceed 1/4" in diameter.

Step 3: Apply bonding agent (Sika Armatec® 110 EpoCem® or equal) at the joint and all exposed surfaces. Use SikaRepair® 222 or equivalent repair mortar extended with 3/8 inch coarse aggregate for all major repairs greater than 1 inch depth. Prior to application of repair mortar, clean, prepare and prime the exposed concrete surfaces per recommendation of the manufacturer.

Step 4: Curing and damp-proofing of concrete. For curing of concrete, the new repaired concrete surfaces shall be sprayed with a fine mist of water and covered with wet burlap and polyethylene to keep the moisture in right after concrete casting. All repaired, cured and exposed concrete surfaces shall be damp-proofed with Hydrozo Silane 40 VOC or equal.

Aforementioned major concrete repair (per attached sketch SKS-1) shall be carried out at one concrete foundation at a time. Allow at least 7 days for previous major concrete repair to cure before commencement of major repair on the next foundation.

For minor repairs of damaged horizontal surface with less than 1/2 inch of spalling, chip and remove all loose concrete down to sound and solid concrete. Repair mortar SikaTop 122 Plus or equal suitable for exterior application shall be used for all minor patching and repair. Prior to application of repair mortar, clean, prepare and prime the exposed concrete surfaces per recommendation of the manufacturer. Curing of the repair mortar shall be required as well.



### FOUNDATION REPAIR DETAIL

Not To Scale

JACK C. MONTGOMERY  
VA MEDICAL CENTER  
MUSKOGEE, OK

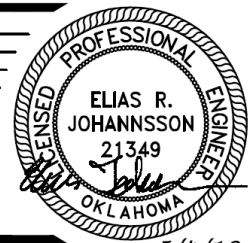
CERTIFICATE OF AUTHORIZATION:  
CA 973 (PE/L) EXPIRES 6/30/2012

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Project No: \_\_\_\_\_  
Issue Date: 05/03/12  
Contact: ERJ  
Checked by: \_\_\_\_\_  
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FOUNDATION  
REPAIR DETAIL

SKS-1



5/4/12

DRAWING: G:\12453100\_VAMUSFOOT\ISTR107\_DWG\SCAD\SKS-1.DWG  
LAYOUT: 8X11P , LAST SAVED: TA2843, 5/3/2012 10:53:10 AM  
LAST PLOTTED BY: TIENG LING, 5/3/2012 10:53:40 AM ("PLOTTED BY:" VALID ON HARD COPY ONLY)