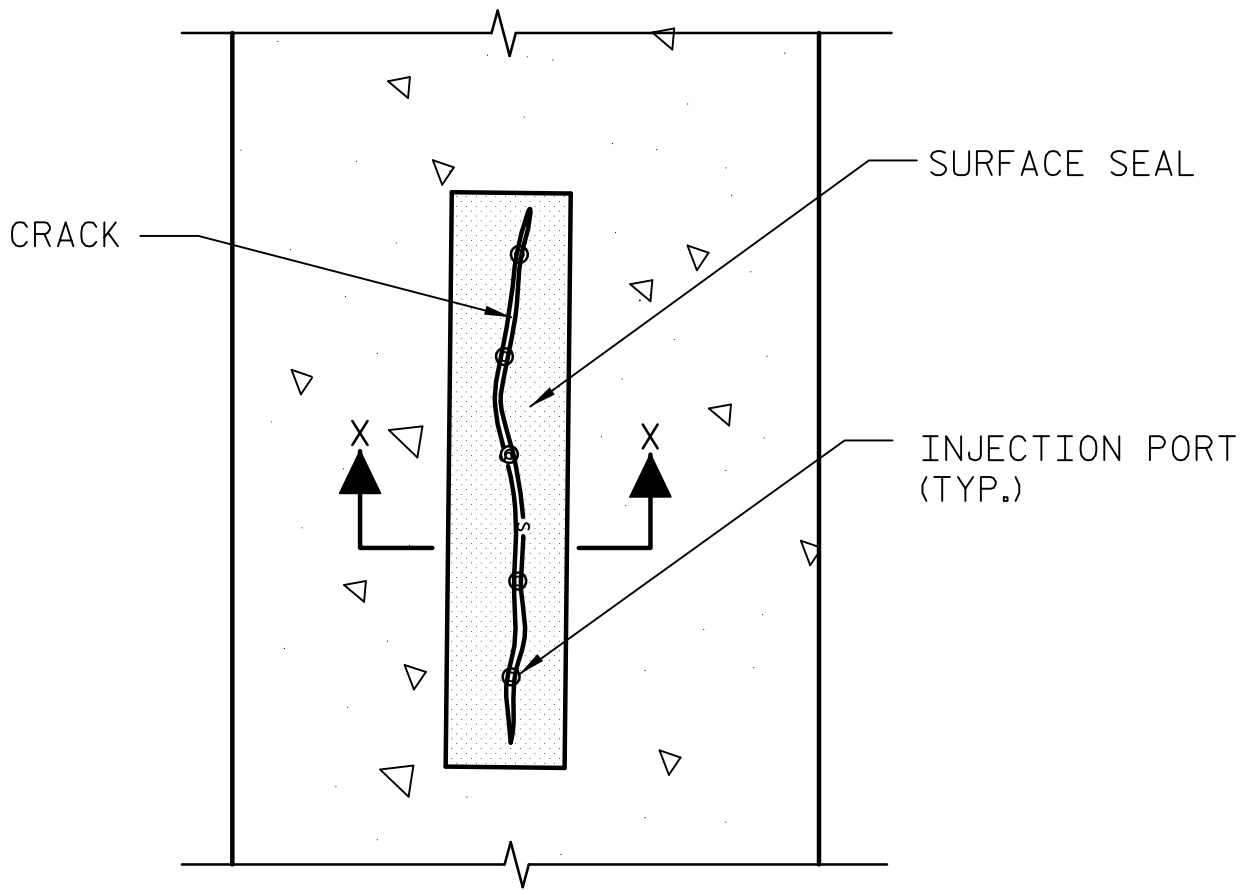


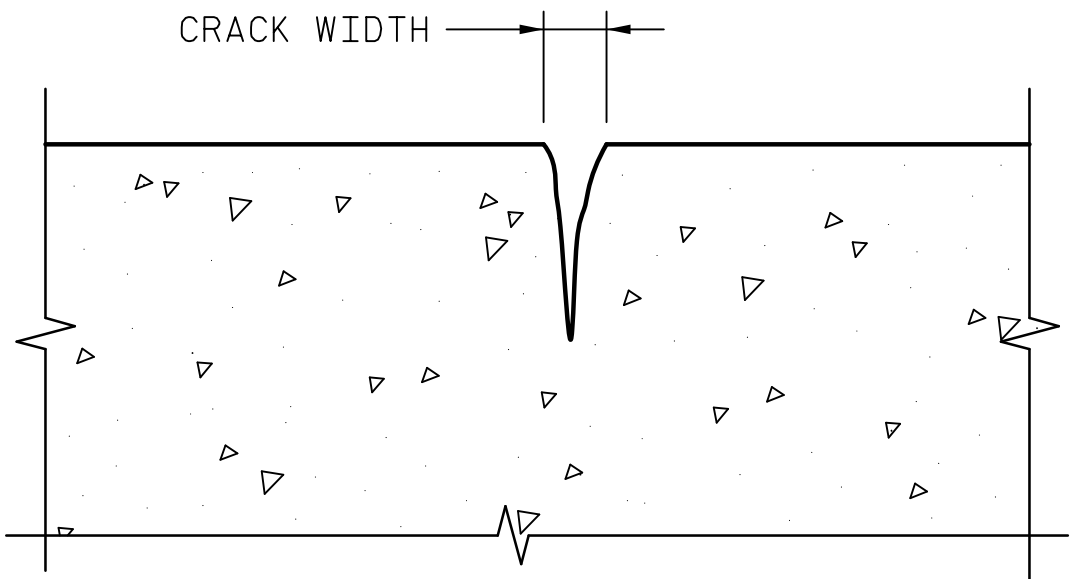
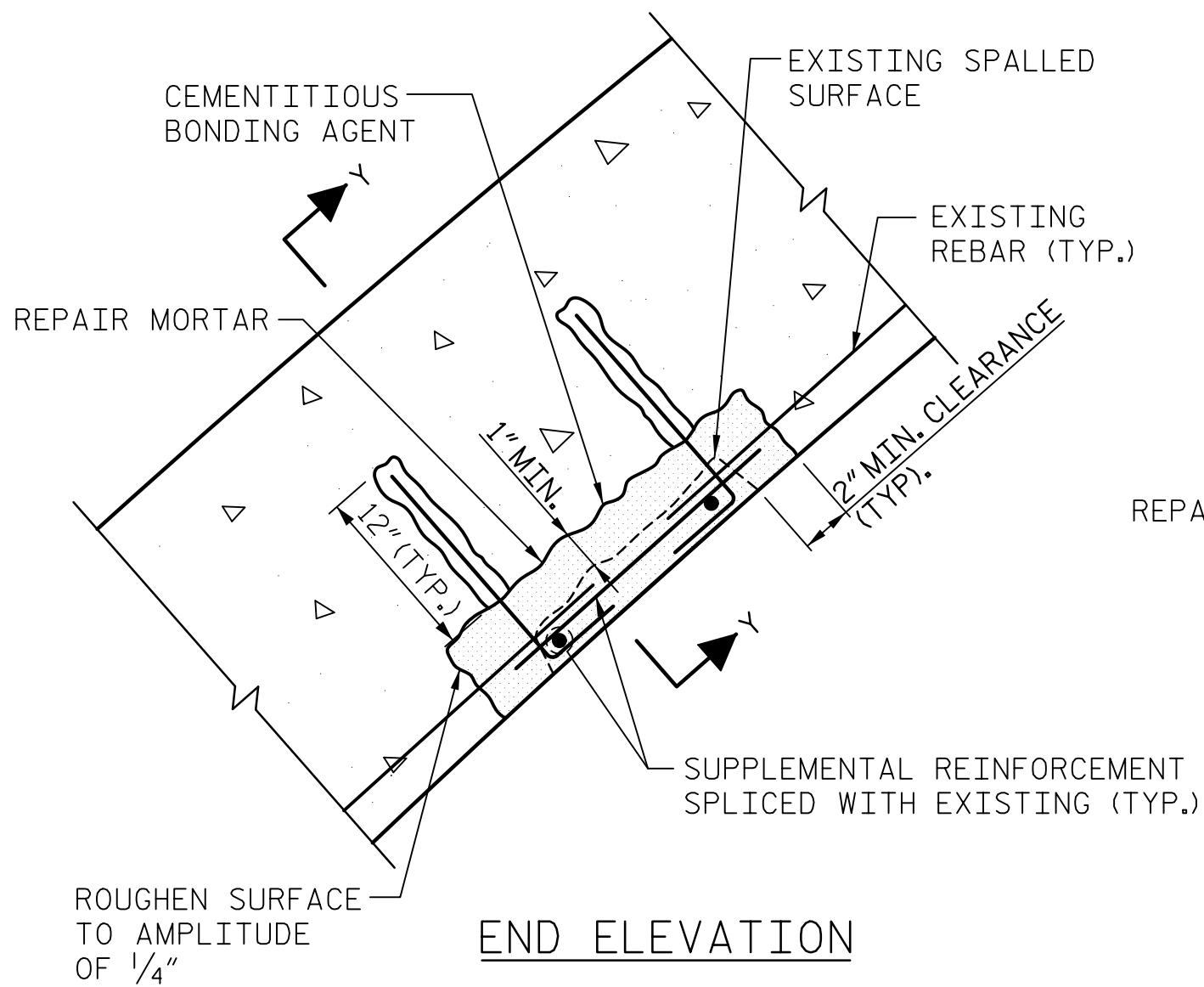
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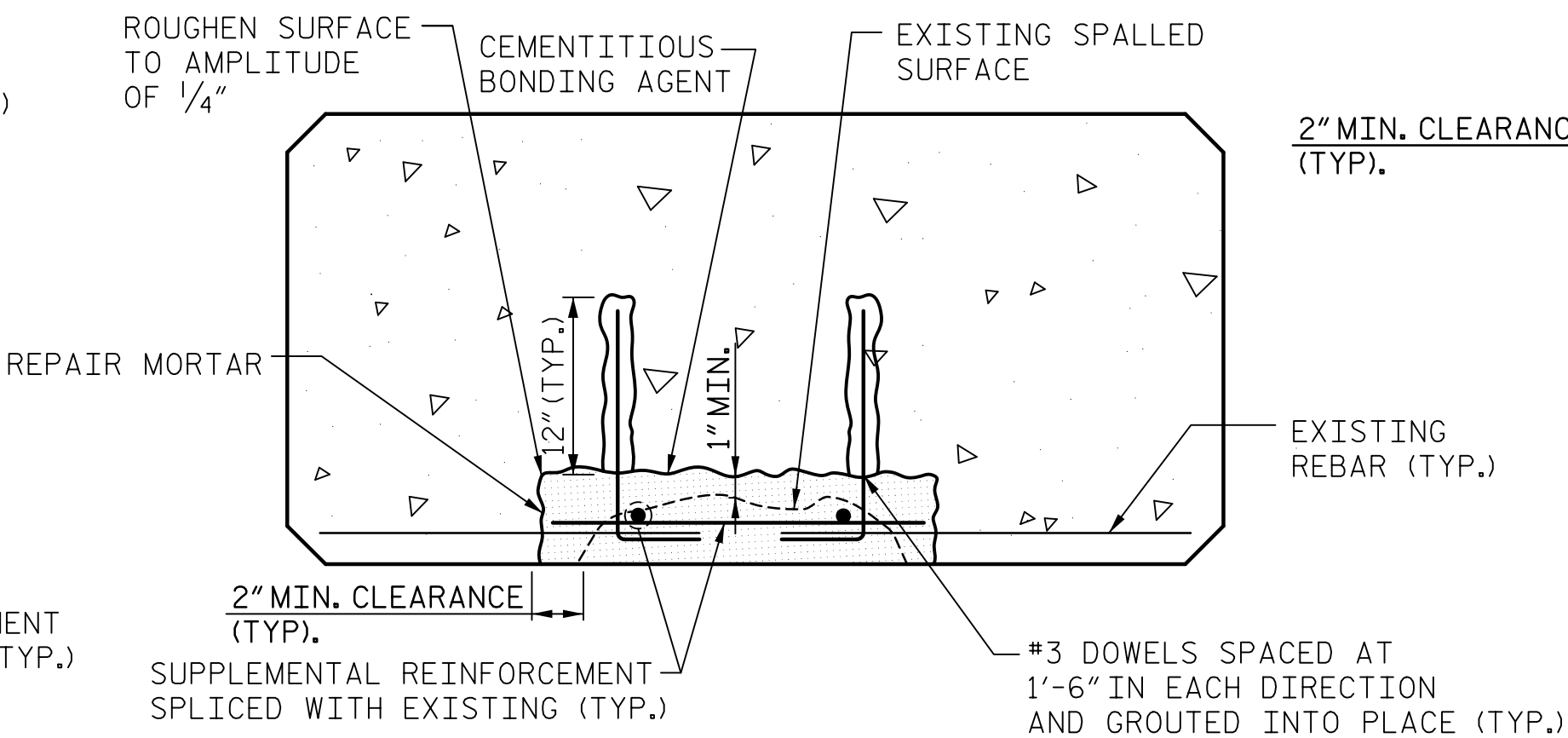


EPOXY RESIN INJECTION DETAIL

REPAIR CRACKS AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE EPOXY RESIN INJECTION SPECIAL PROVISION.



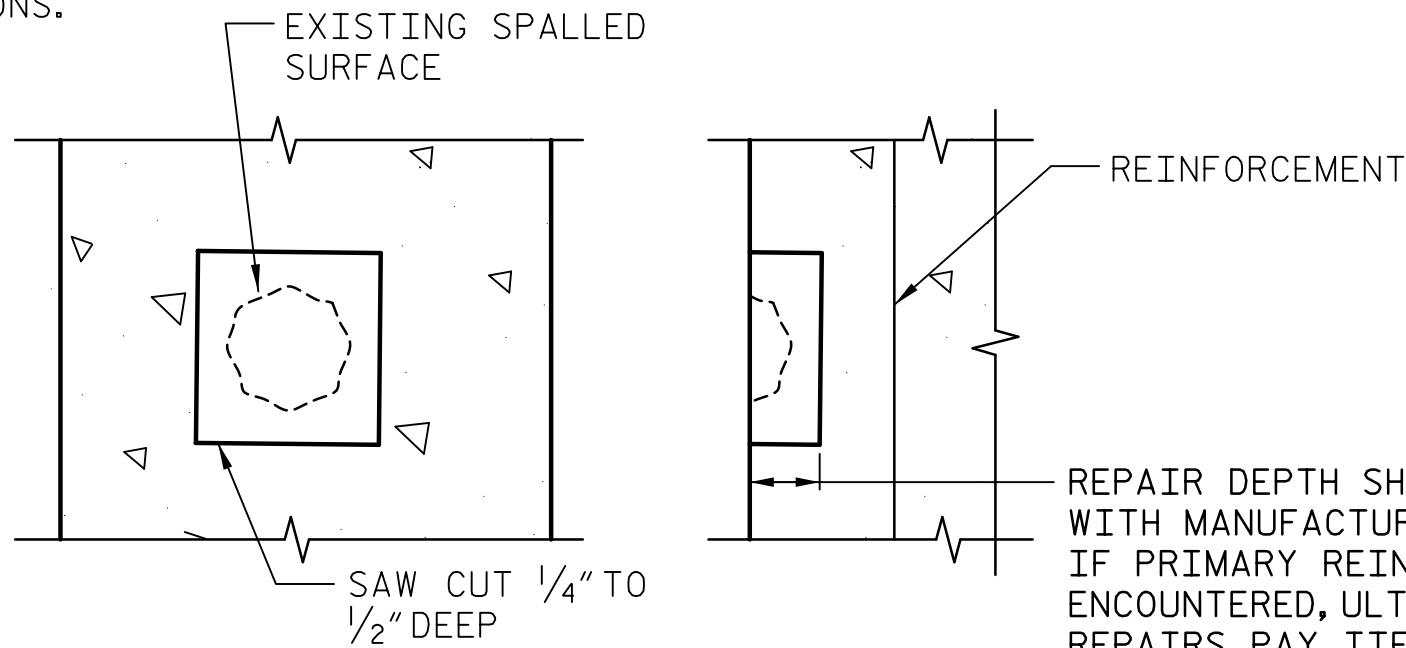
SECTION X-X



SECTION Y-Y

CONCRETE REPAIR WITH EXPOSED REBAR

NOTE: PLACE DISCRETE GALVANIZED ANODES AROUND THE REPAIR PERIMETER IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE MANUFACTURER'S INSTRUCTIONS. DISCRETE ANODES NOT SHOWN FOR CLARITY.

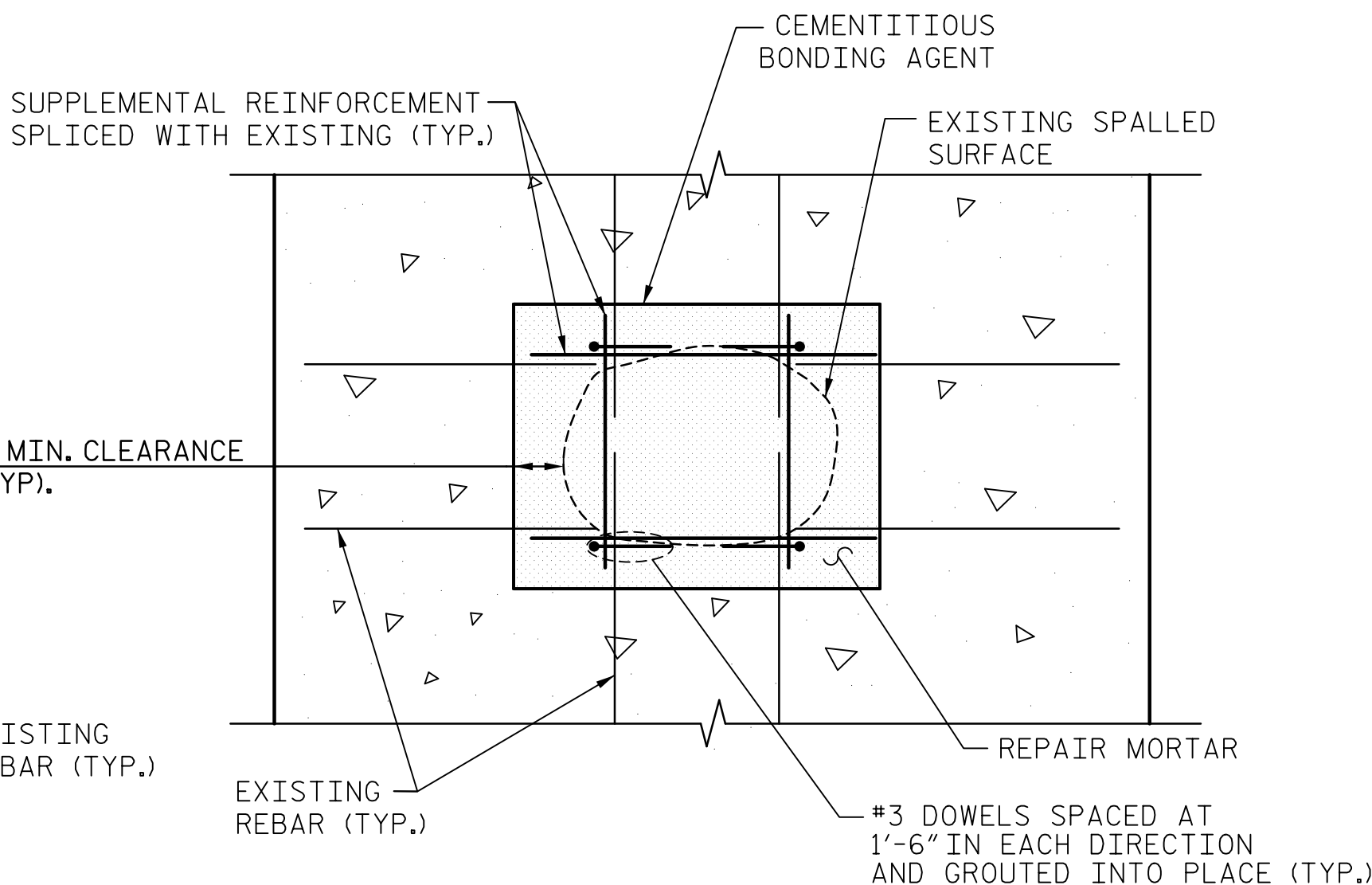


ELEVATION

END ELEVATION

EPOXY MORTAR REPAIRS

ESTIMATED QUANTITIES					
CONCRETE REPAIRS (CUBIC FEET)	REPAIR REINFORCING STEEL (LBS.)	DISCRETE ANODE (EA.)	EPOXY MORTAR REPAIR (SQUARE FEET)	EPOXY RESIN INJECTION (FEET)	APPLICATION OF COATNG FOR BRIDGE 51
68	304	101	88	80	LUMP SUM



ELEVATION

NOTES

DEFECTS SHOWN ON THE REHABILITATION PLANS WERE RECORDED DURING AN INSPECTION IN MAY, 2016. THE CONTRACTOR'S ATTENTION IS BROUGHT TO THE FACT THAT THE CONDITION OF THE STRUCTURE DURING THE REHABILITATION MAY DIFFER FROM THE CONDITION OF THE STRUCTURE DURING THE INSPECTION.

FOR FURTHER INFORMATION REGARDING THE STRUCTURE REHABILITATION AND DEFECTS, SEE 'B-4974 TASK 2 LAKE TILLERY BRIDGE REAHBILITATION AND WIDENING FEASIBILITY STUDY,' DATED OCTOBER 28, 2016. THIS DOCUMENT IS REFERRED TO HEREAFTER AS THE 'FEASIBILITY STUDY.'

ASSUMED APPROXIMATE REPAIR DIMENSIONS ARE SHOWN IN THE DEFECT TABLES. THE DIMENSIONS SHOWN ARE ONLY FOR DETERMINING AN APPROXIMATE REPAIR QUANTITY FOR THE BID TABULATION. CONTRACTOR SHALL PERFORM ACTUAL REPAIR VOLUME REQUIRED BY THE ENGINEER.

THE ENGINEER SHALL DETERMINE THE ACTUAL REQUIRED DEFECT DIMENSIONS AND THE REPAIR TYPE TO BE PERFORMED FOR EACH DEFECT, IN A MANNER THAT IS CONSISTENT WITH THE RECOMMENDATIONS MADE IN THE FEASIBILITY STUDY AND THE INFORMATION SHOWN IN THESE PLANS.

THE CONTRACTOR'S ATTENTION IS BROUGHT TO THE FACT THAT THE ORIGINAL BRIDGE HAS EXPANSION JOINTS AT SPANDREL BENTS 4 AND 8, AND LEAKAGE FROM THE JOINTS WAS OBSERVED ON THE ARCH RIBS DURING THE INSPECTION. THERE ARE SOME DEFECTS IN THE ARCH RIBS AT THE VICINITY OF THESE SPANDREL BENTS THAT HAVE A REPAIR RECOMMENDATION OF 'NONE.' THE ENGINEER SHALL EVALUATE IF THESE, AND ALL OTHER DEFECTS, HAVE DETERIORATED FURTHER SINCE THE INSPECTION AND REQUIRE REPAIRS. IF CRACKS HAVE WIDENED, OR BECOME DELAMINATIONS OR SPALLS, THEY SHALL BE REPAIRED WITH CONCRETE REPAIRS.

CONTRACTOR SHALL PERFORM A MOCKUP OF EACH REPAIR TYPE PRIOR TO EXECUTING THAT REPAIR TYPE ON THE STRUCTURE. FOR FURTHER DETAILS, SEE SPECIAL PROVISIONS.

CONTRACTOR SHALL COAT THE STRUCTURE WITH A BREATHABLE SEALER AFTER COMPLETING CONSTRUCTION. FOR DETAILS, SEE SPECIAL PROVISIONS.

CONTRACTOR SHALL THOROUGHLY CLEAN THE STRUCTURE AND REMOVE ALL VEGETATION, SOIL, DISCOLORATION, AND GREASE, PRIOR TO APPLYING THE BRIDGE COATING.

CONTRACTOR SHALL CLIP ALL NAILS OR OTHER METAL ITEMS PROJECTING OUT OF THE STRUCTURE AT THE SURFACE OF THE CONCRETE, PRIOR TO APPLYING THE BRIDGE COATING.

WHEN DETERMINING CONCRETE REPAIR VOLUME, THE REPAIR DEPTH FOR MOST DEFECTS HAS BEEN ASSUMED TO BE 4". THE ENGINEER SHALL DETERMINE THE ACTUAL REPAIR DEPTH IN ACCORDANCE WITH THE SPECIAL PROVISION.

FOR DEFECTS WITH A PROPOSED REPAIR OF 'NONE' IN THE DEFECT LOG, THIS INDICATES THAT REPAIRS WITHIN SPECIFIC PAY ITEM CATEGORIES ARE NOT PROPOSED. THE ENGINEER SHALL MAKE THE FINAL DETERMINATION DURING THE REHABILITATION IF REPAIRS ARE REQUIRED. THESE LOCATIONS THAT ARE NOT REPAIRED SHALL STILL BE CLEANED AND COATED.

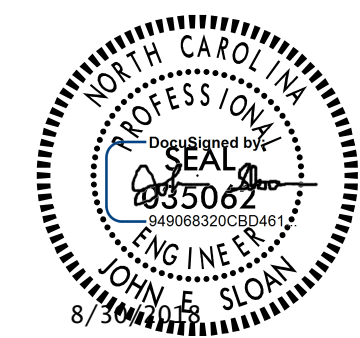
PROJECT NO. B-4974

STANLY/MONTGOMERY COUNTY

STATION: 339+86.39 -L-

AECOM

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REHABILITATION

STRUCTURE
REHABILITATION
DETAILS

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S-145
2			4			TOTAL SHEETS 148

DRAWN BY : N. BROWN	DATE : 05/2018
CHECKED BY : J. SLOAN	DATE : 05/2018
DESIGNED BY : N. BROWN	DATE : 05/2018
DESIGN CHECKED BY : J. SLOAN	DATE : 05/2018

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED