EAST HADDAM SWING BRIDGE

T-48 CHIP SEAL EPOXY OVERLAY

Route 82 over the CT River Between Haddam and East Haddam, CT



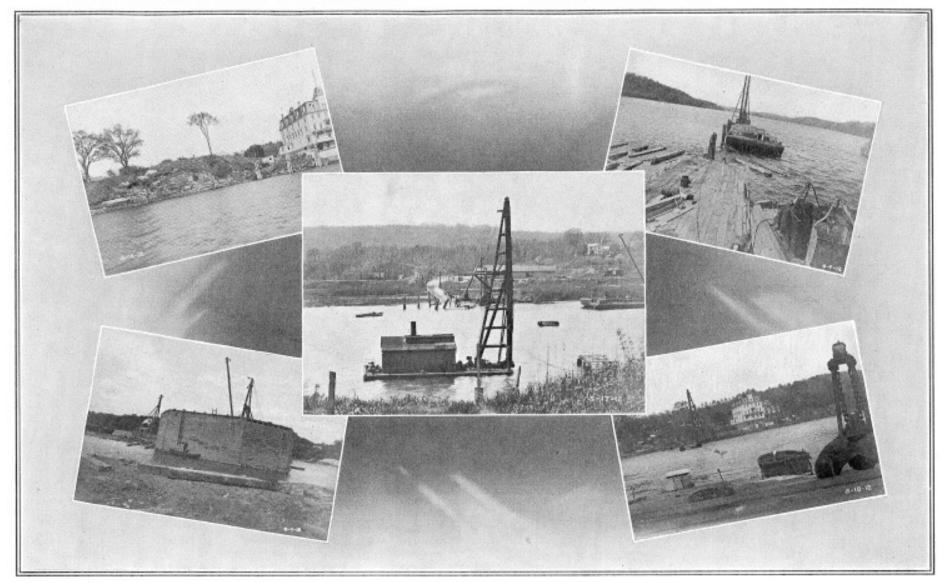




Swing Bridge
East Haddam, CT
View from Northern Marina





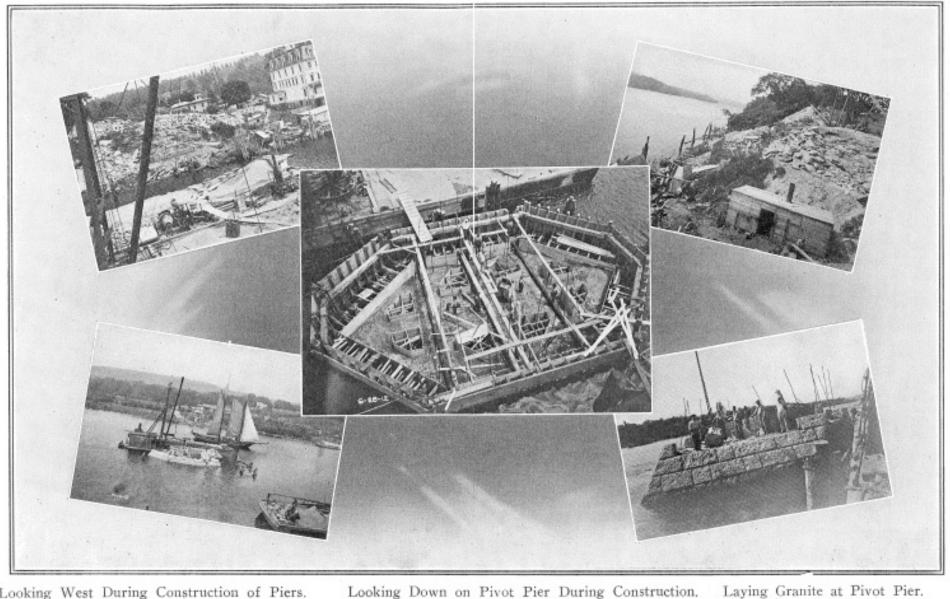


Caisson for Pivot Pier.

Pile Driver at Work at Pivot Pier.

Looking Towards East Bank of River.

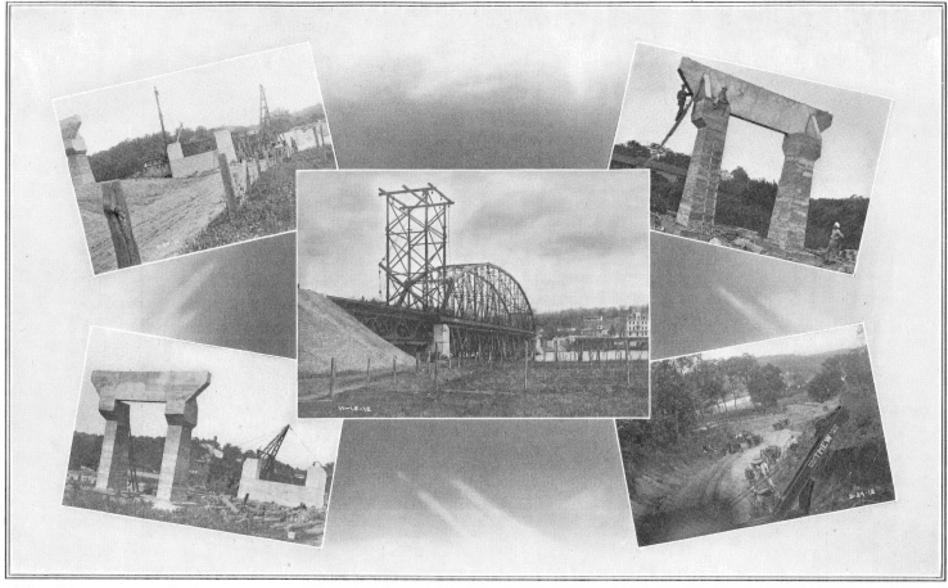




Looking West During Construction of Piers.

Looking Down on Pivot Pier During Construction.



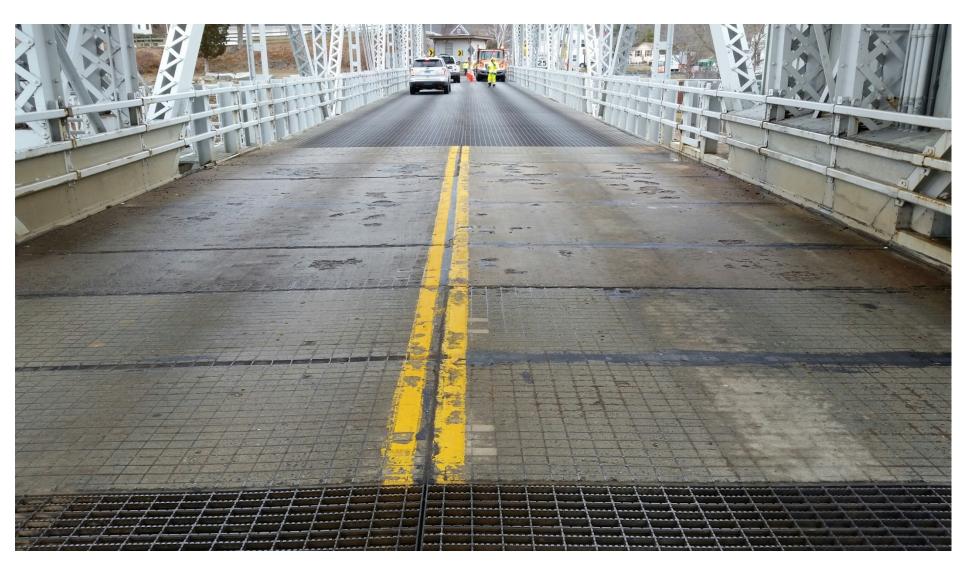


West Abutment and Pier 1,

Fixed Spans on False Work.

Excavation for New Location of West Approach.





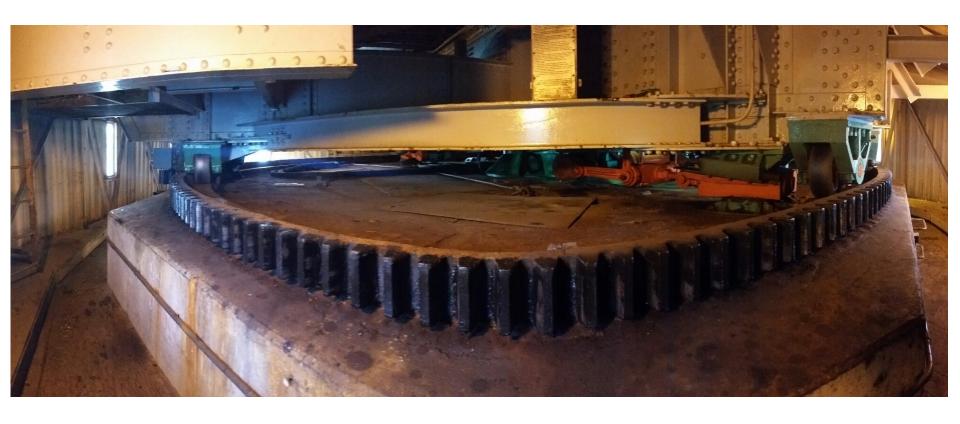
Concrete Filled Grid Deck Over Center Equipment Room





Center Pivot Components





Center Pivot – Panoramic View

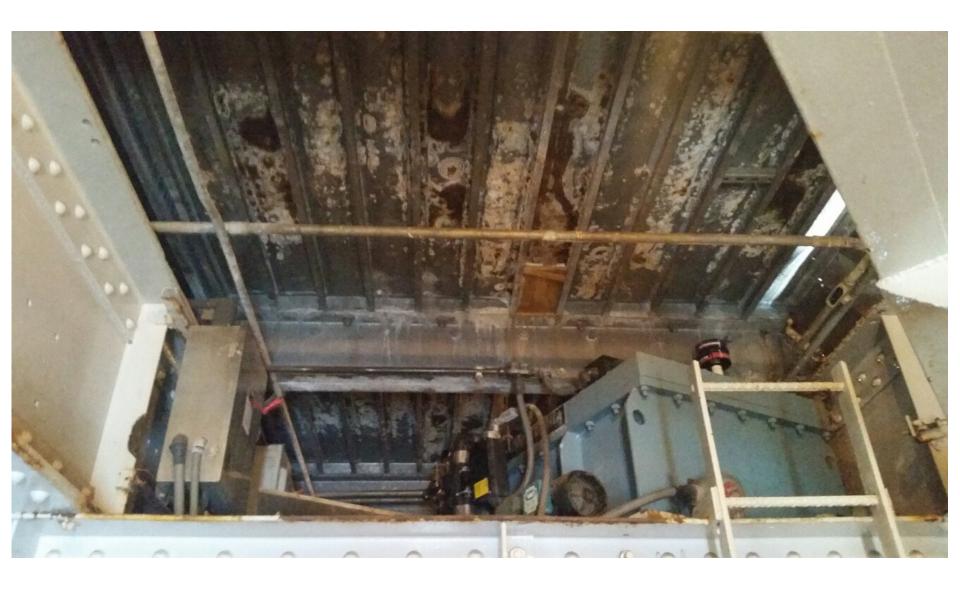






East End Wedges





Typical Deterioration – Underside of Deck



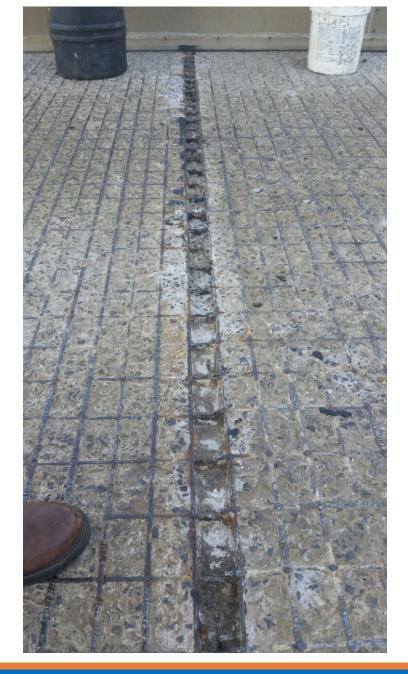


Removal of Over Fill Concrete and Joint Material



Prepared Surface Prior to Sealer Application

- Removal of over pours
- Repair of deteriorated concrete
- Welding of grid deck seams
- Removal of epoxy joint material
- Fill joints with T-48 Chip Seal Epoxy
 mixed with aggregate







High Molecular Weight Methacrylate Crack/Surface Sealer



Sealate® (T-70-10 & T-70 MX-30)

Physical Properties*

Property	Unit of Measure		Test
	T-70-10	T-70 MX-30	
Viscosity	<20 cps (mPa.s)	<25 cps (mPa.s)	Brookfield
Tack Free Time	4-6hrs @ 70F	5-6hrs @ 70F	AASHTO T237
PCC Bond Strength	615 psi (4.2 MPa)	615 psi (4.2 MPa)	CA Test 551
Tensile Elongation	3-5%	30% AST	M D638 Type1

^{*} To be used as general guidelines only







Mixed Sealer Poured onto Deck

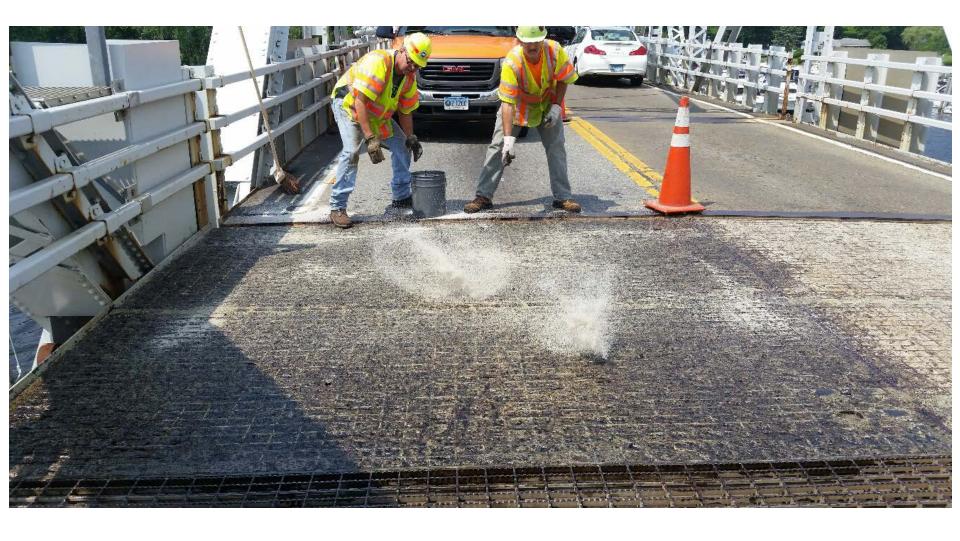






Sealer Spread with Brooms to Avoid Pooling





Gravity Penetrating Sealer Covered with Sand for Temporary Skid Resistance

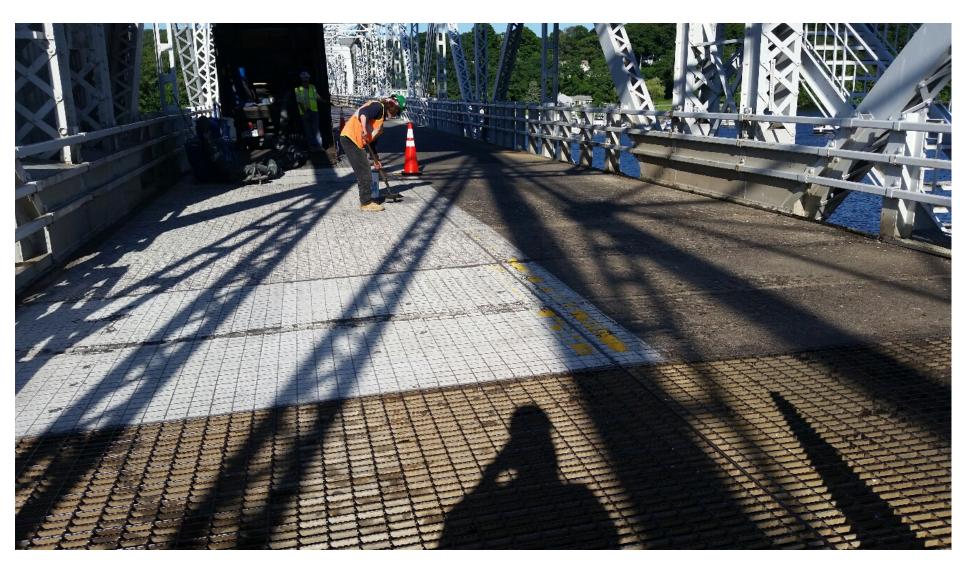




Shot Blast Excess Cured Sealer on Deck Surface For Application of Epoxy Overlay







One Half of Bridge Prepared for Overlay





Polysulfide Epoxy Multi-Coat Overlay Materials



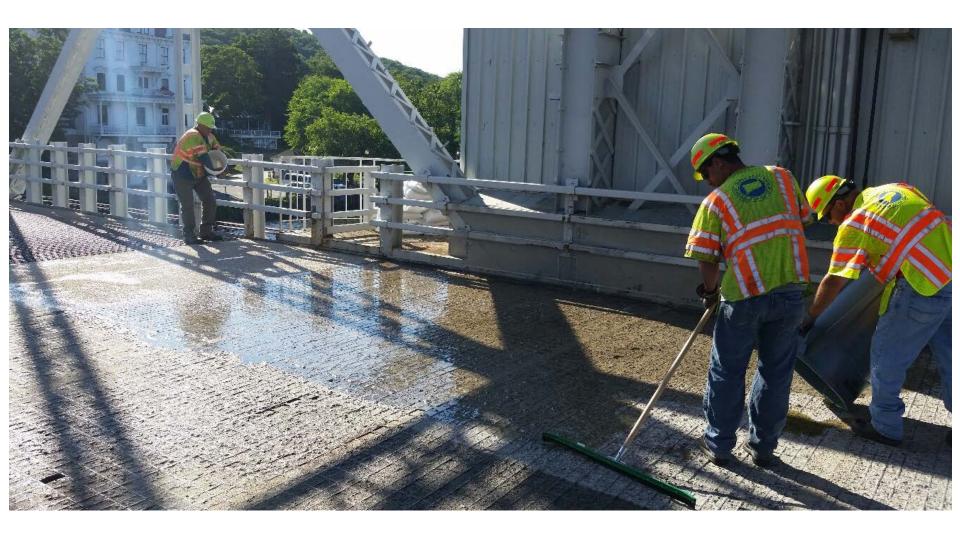
T-48 Chip Seal

Physical Properties*

Properties	Unit of Measure	Test		
Neat Resin				
Pot Life (@70°F)	15-30 min	AASHTO T237		
Tensile Adhesion(to concrete)	>250 psi (>1.7MPa)	ACI 503R		
Tensile Elongation	45% min	ASTM D638		
Chip Seal				
Wet Skid-Resistance	50 min	ASTM E274		

^{*} To be used as general guidelines only





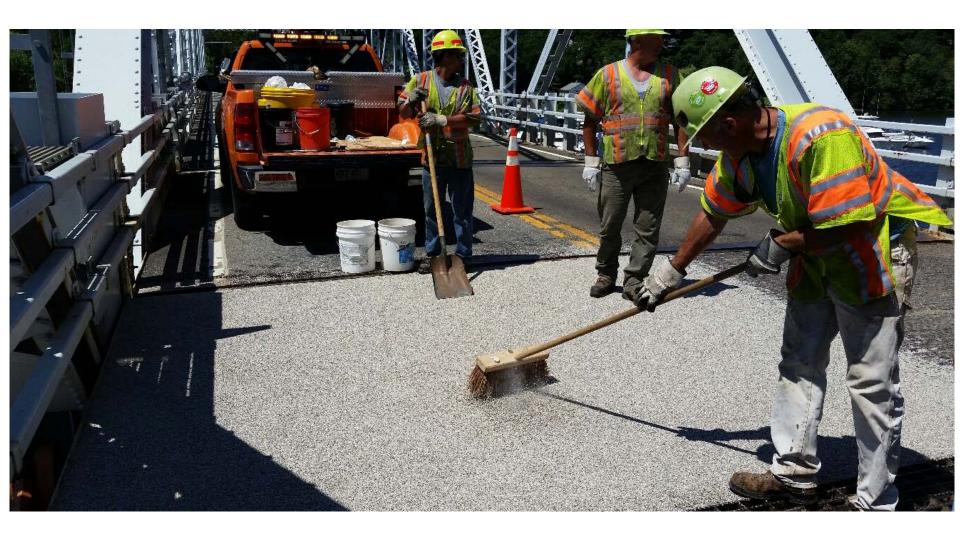
Application of Mixed Epoxy with Notched Squeegees (Approx. 40 mils Thick)





Application of Wear Resistant, High Friction Broadcast Aggregate





Removal of Excess Aggregate Before Second Application of Epoxy and Aggregate







Finished Bridge Deck – West End





Finished Bridge Deck – Center Span





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