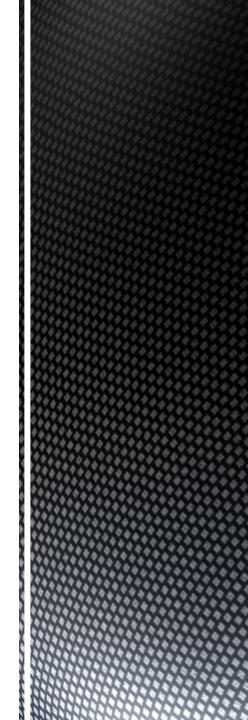
#### Bridge Deck Maintenance – A Contractor's Perspective



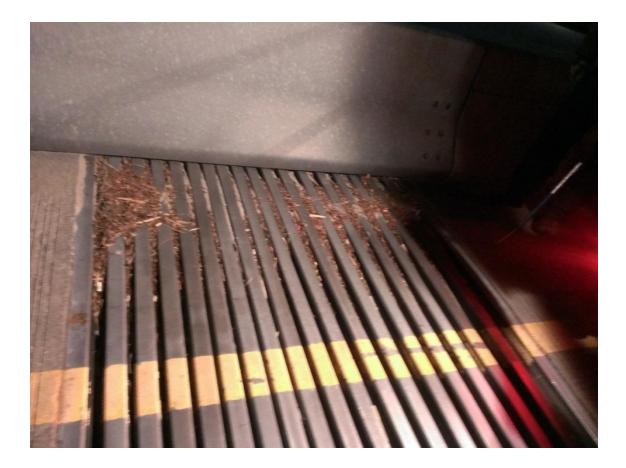


- Long Term Performance Based Contracting – inspection, maintenance and operation of structures for owners/clients over long period of time. Examples are Sunshine Skyway Bridge over Tampa Bay in Florida, Ravenel Bridge in Charleston, South Carolina, South Jordan River Bridge in Norfolk-Portsmouth, Virginia.
- Unit Based Contracting owner/clients produces plans and contracts, pay items are by the unit

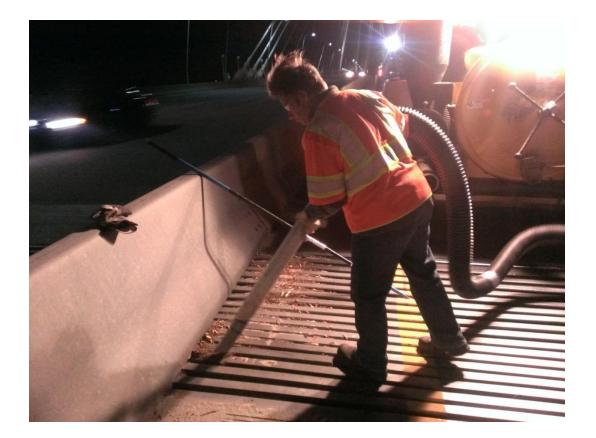
#### Methods of Contracting

- Sweeping / cleaning deck
- Vacuuming (deck / joints / drains)
- Deck & Joint Washing especially in areas that use de-icing chemicals
- Drains and scupper cleanouts
- Joints

Preventative / Routine Maintenance



# Clogged Deck Joint (Modular)



# Cleaning (Vac) Deck Joints



- Crack sealing
- Spall repairs (shallow) Asphalt overlay repairs (potholes)

#### **Minor Repairs**



- Partial / full depth repair
- Overlays
- Innovative Products Spray-Lock

#### Deck Rehab



#### **Shallow Steel**



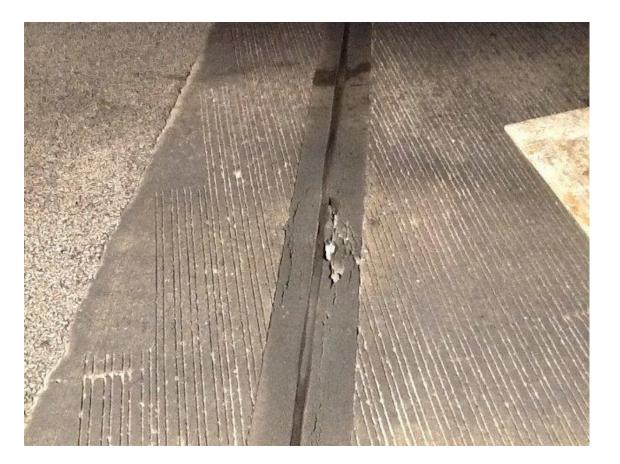
# FlexPatch Epoxy



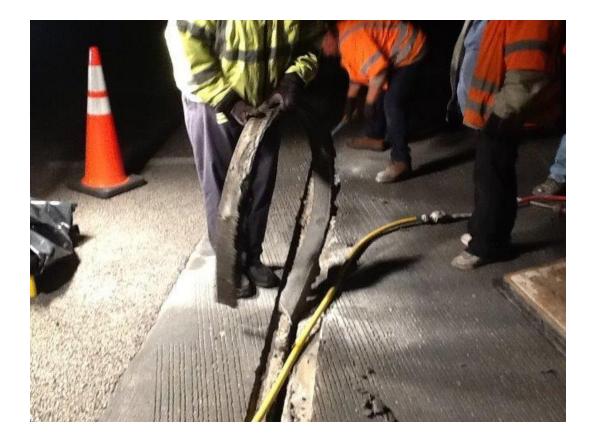
### Demo/Prep for Minor Repair



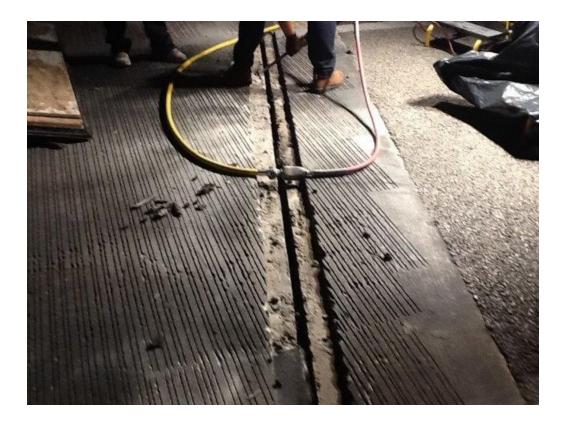
#### FlexPatch Epoxy Patch



# Leaking Expansion Joint



# Removing old joint sealant



## Chipping out for new joint header



# New Epoxy (Silspec) Joint



# Armored Joint Repairs



#### Removing armor headers



# Using Silspec to reseal the joint



#### **Finished Joint**





# Deck Overlays (Epoxy)

- Traffic / Lane Closure Restrictions (night work)
- Weather (rain, falling temps / cure time)
- Product approval by owner (prequal'd products, or submitting innovative ideas)
- Old design / poor construction (shallow steel, little cover)
- Worn deck grooving / skid resistance

Deck Maintenance Challenges

#### Deck Maintenance Challenges



- Old design / poor construction (shallow steel, little cover)
- 2013 Repair St. Pete, FL Sika 321

