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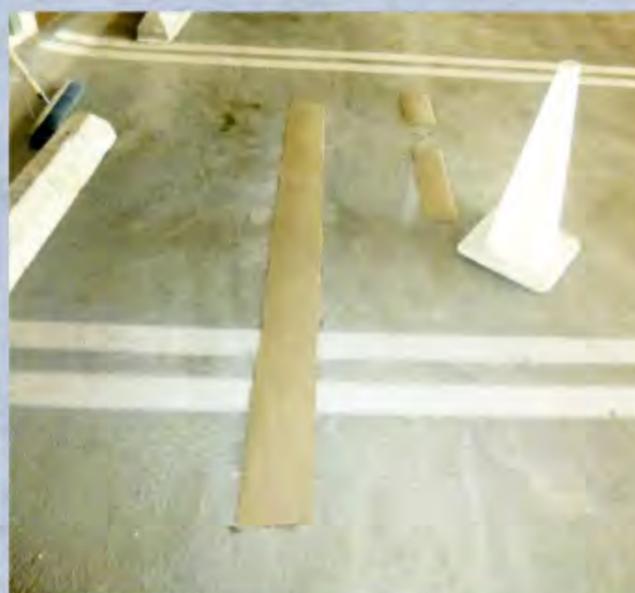


**Call Contech for your next repair, strengthening and protection project!**

## PARKING DECK REPAIRED IN NEWPORT BEACH

### Contech Completes Rusted Exposed Reinforcing Steel Repairs

Contech Services, Inc. is regularly asked to inspect existing corroded slab conditions on supported structural parking decks. The owner of a parking deck supporting a "Class A" office building in Newport Beach, CA, asked Contech to review exposed steel and post-tension tendons and suggest a repair. Standard



preventative maintenance repairs were recommended, along with all the work being done off hours to allow full access to the work areas. Preventive maintenance repairs include carefully saw cutting a kerf around the perimeter of the repair area, being careful to not cut reinforcing

steel or knick tendons. Next, the area is mechanically brushed out to provide a profiled surface for bonding. The exposed, rusted steel is cleaned as required to remove rust. Next, "neat" epoxy resin is applied to prime the surface of repair. Epoxy Modified Mortar is mixed and used to fill in repair section. Finally, finish with an Epoxy Modified Mortar, level with the adjacent deck surfaces, leaving slightly mounded to further protect repair area and provide adequate cover over reinforcing steel. The work on the Newport Beach garage was completed on one Saturday, minimizing inconvenience to the tenants of the office building. Contech regularly performs preventive maintenance to parking structures.

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### ■ RECENT PROJECTS

Steel Plate Bonding With Epoxy

Shotcrete Walls

Retirement Home Expansion Joints

WTP Leak Repairs

## EXPANSION JOINT WORK AT HUSKY STADIUM

### Contech Installs Seismic Expansion Joints Successfully

In 2012, the Seattle office of Contech Services competed for and won a subcontract to supply and install seismic expansion joints in the new University of Washington Husky Stadium. This fast track, design-build project required careful design coordination in order to produce a high quality finished installation commiserate with the overall design goals of function, esthetics and budget. Consequently, Contech Services was an active participant in the expansion joint design evolution process from the early stages of the project.



Expansion joints in seating bowl sections are often at the butt joint end of the tread/riser units. The tread/riser units can be pre-fabricated. This leads to the tread/riser unit construction tolerance being manifested at the seismic joint openings. Contech solved this problem with epoxy

mortar leveling beds as required and cover plate fabrication for each plate based on as-built field measurements. This process was essential in producing a high quality finished installation that will function well for many winning seasons to come.

## PEDESTAL BLOCK STRENGTHENING & MACHINE BASE GROUTING

### Contech Completes Three Challenging Projects Safely And On Time.

Contech Services Portland/Vancouver office recently completed 3 types of work for a client in eastern Oregon, concrete repair, grouting and composite strengthening. This heavy duty industrial plant employs large machinery in their processes. Many of these processes have critical tolerances in terms of vibration reduction, levelness, flatness, and full bearing requirements of respective sole plates, base plates and skids.



In the processing area of the plant, a large rotating vat with large concrete pedestals or pads (4' x 5' x 4') showed evidence of cracking, spalling and exposed reinforcing steel. Contech Services chipped and removed all the unsound and damaged concrete, removed corrosion from the reinforcing steel and applied a corrosion inhibitor. Then, all cracks within the repair zone were epoxy injected. Once the injection and surface preparation was complete, wood forms were used to form the repair area to receive a high early strength structural repair mortar extended with 3/8 minus aggregate. The day after repair mortar placement, forms were removed and two layers of FRP composite (horizontal fiber orientation) were applied to

the repaired pedestal. During the shutdown Contech crews also re-grouted a large fan motor base. The base is about 11' x 8' and the grout averaged 2" thickness. The old, deteriorated and ineffective grout was removed and replaced. All components of the work were performed during the planned plant shutdown. It was done safely and within the customer's time restrictions. All critical tolerances were maintained allowing proper operation of the machinery.

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### RECENT STRUCTURES

- Reservoir
- Shopping Mall
- Church
- Plaza Repairs
- Stadium
- Tilt-Up Building
- Pulp & Paper Mill

### RESTORATION EXPERTISE

- Concrete Repairs
- Epoxy Crack Injection
- Composite Strengthening (FRP)
- Waterproofing
- Shotcrete (Wet or Dry)
- Grouting
- Expansion Joint Systems
- Elastomeric Deck Coatings
- Epoxy Floor Coatings
- Caulking & Sealants