

APPENDIX B
PHOTOGRAPHS



Photo B-1: Overall view of Pier 40, looking southeast.



Photo B-2: Overall view of the Finger Pier Extension with one-story shed, looking southeast.



Photo B-3: View of typical Pier Shed substructure, looking north at Bent F-bar.



Photo B-4: Typical Court Yard substructure. Note water seeping through deck planks at icicle location.



Photo B-5: View of typical Finger Pier Extension substructure, looking south at the southern edge beam of the pier.



Photo B-6: View of north side of Pier 40 looking southwest. Note Hornblower vessels berthed at the northwest corner of the pier.



Photo B-7: View of north side of Pier 40 looking southeast. Note the timber fender system along the edge beam and additional floating fenders.

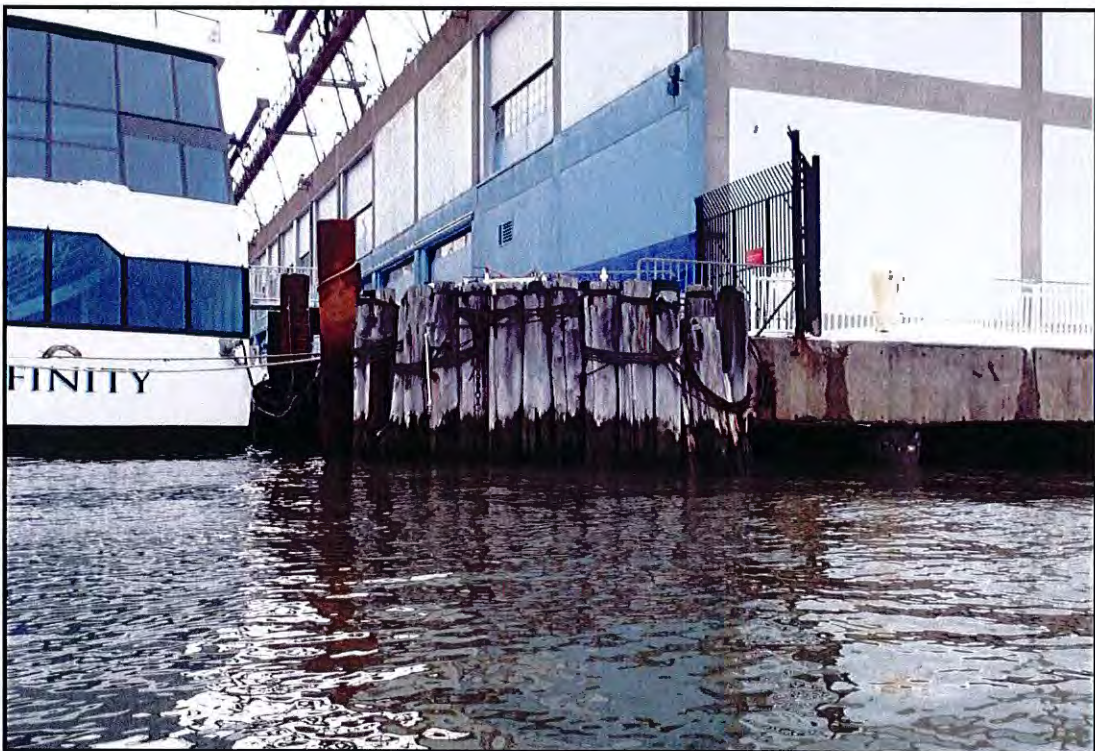


Photo B-8: View of timber fender pile cluster located at the northwest corner of the Pier Shed. Note steel fender piles with full coverage coating loss.



Photo B-9: Typical concrete encasement at the top of a steel H-pile in Bent F-bar (foreground) and typical epoxy coating at top of steel H-pile in Bent F-bar (background).



Photo B-10: Close-up of typical concrete encasement at the top of a steel H-pile at Bent S Pile Row 4.7.

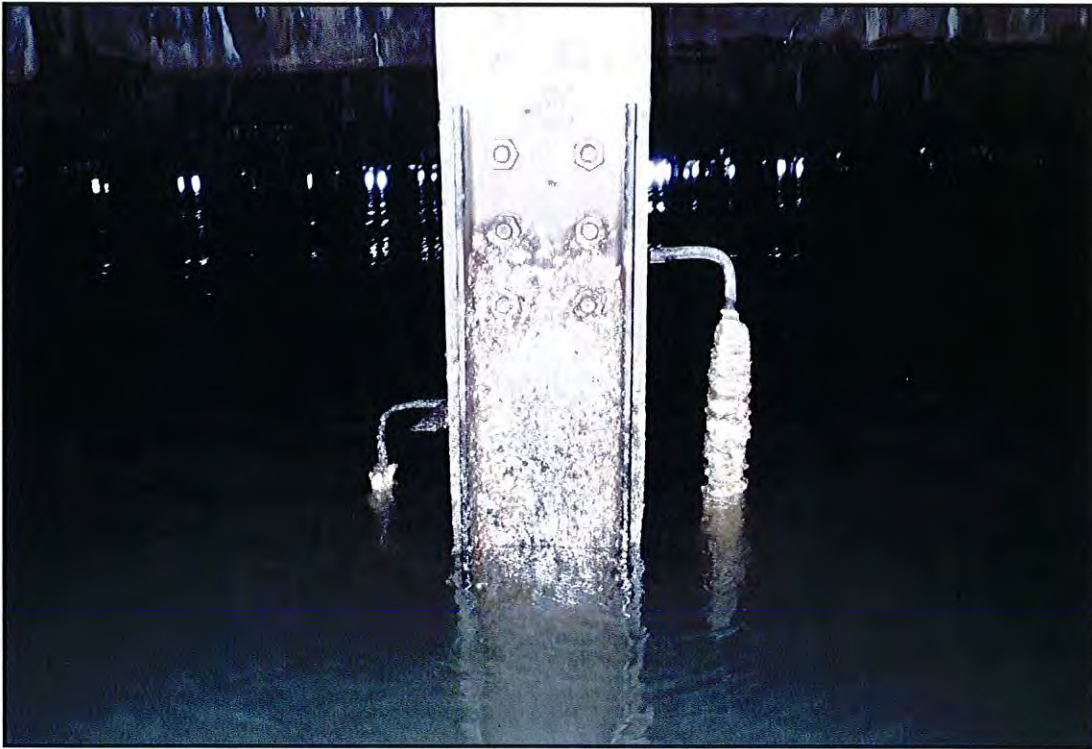


Photo B-11: Typical C-channel pile repair bolted to the flanges of H-pile I-bar 9-bar, view looking west. Note the depleted anodes attached to each side of the H-pile.



Photo B-12: Typical C-channel pile repair bolted to the flanges of H-pile I-bar 9-bar, view looking south.

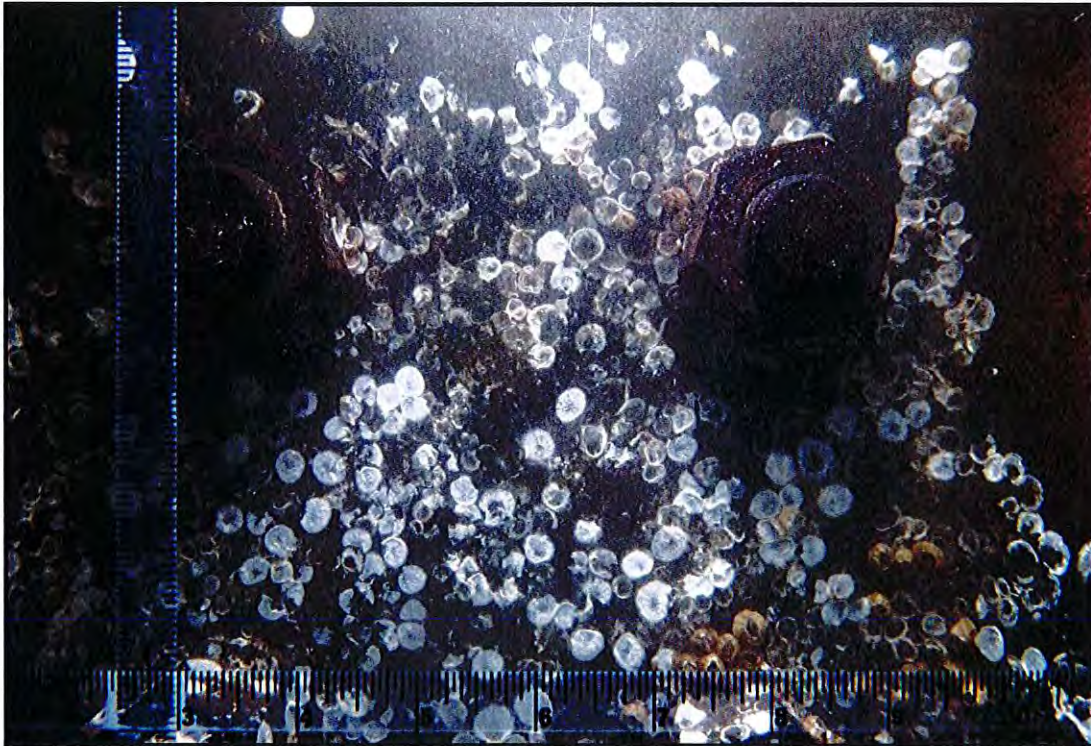


Photo B-13: Typical condition of bolts at the C-channel repairs. Photo at H-pile location T 18.75 in the Pier Shed.



Photo B-14: Typical rust staining and delamination of epoxy coating at Bent Q.25, Pile Row 16S. Note, corrosion of the H-pile flange has caused a large crack in the concrete pile cap.



Photo B-15: Typical rust staining and delamination of epoxy coating at Bent R.75, Pile Row 13-bar. Note, corrosion of the flange has caused a large spall in the concrete pile cap.



Photo B-16: Typical condition of the flange of a H-pile graded Minor. H-pile location at Bent S-bar and Pile Row 19.

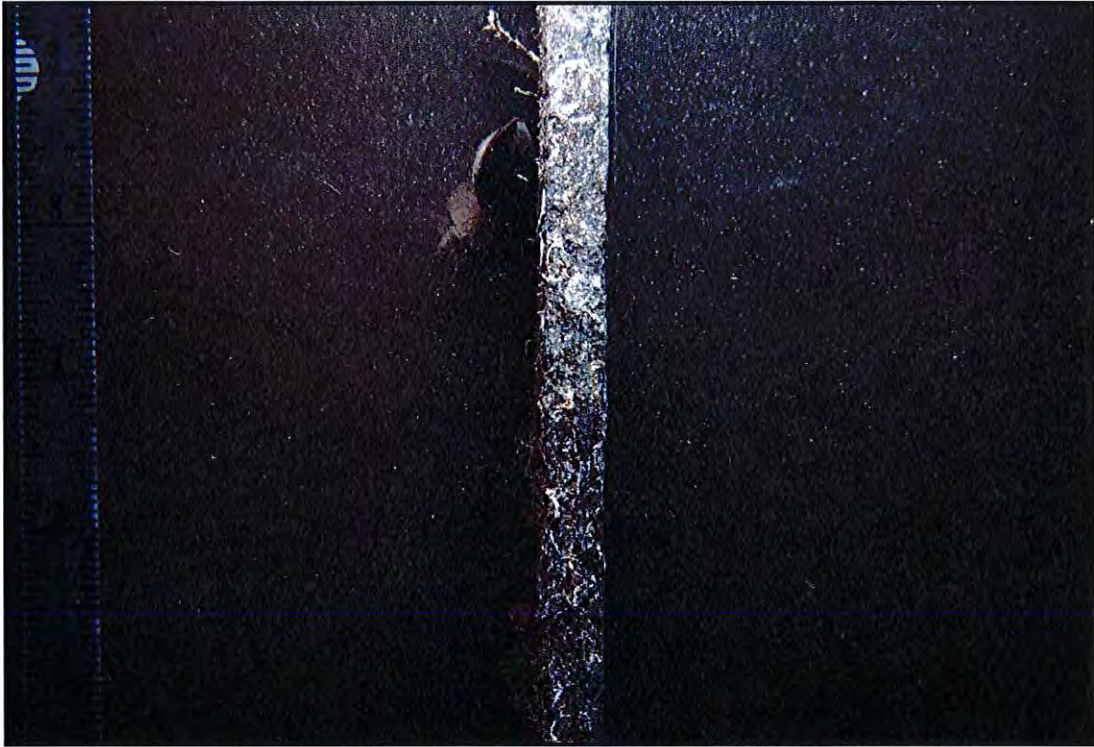


Photo B-17: Typical condition of the flange edge of a H-pile graded Minor. H-pile location at Bent S-bar and Pile Row 19.

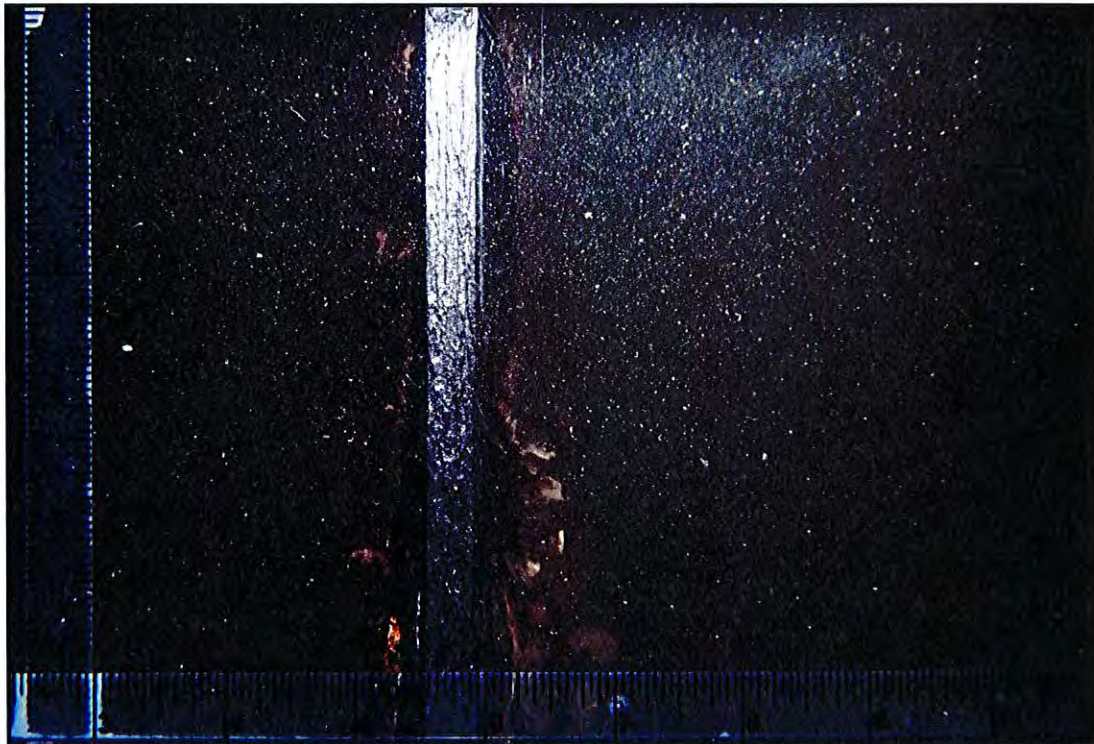


Photo B-18: Typical condition of the flange edge of a H-pile graded Moderate. H-pile location at Bent T and Pile Row 21.



Photo B-19: Typical condition of the flange edge and flange face of a H-pile graded Major. H-pile location is the center-west H-pile of the pile cluster at Bent L and Pile Row 19.

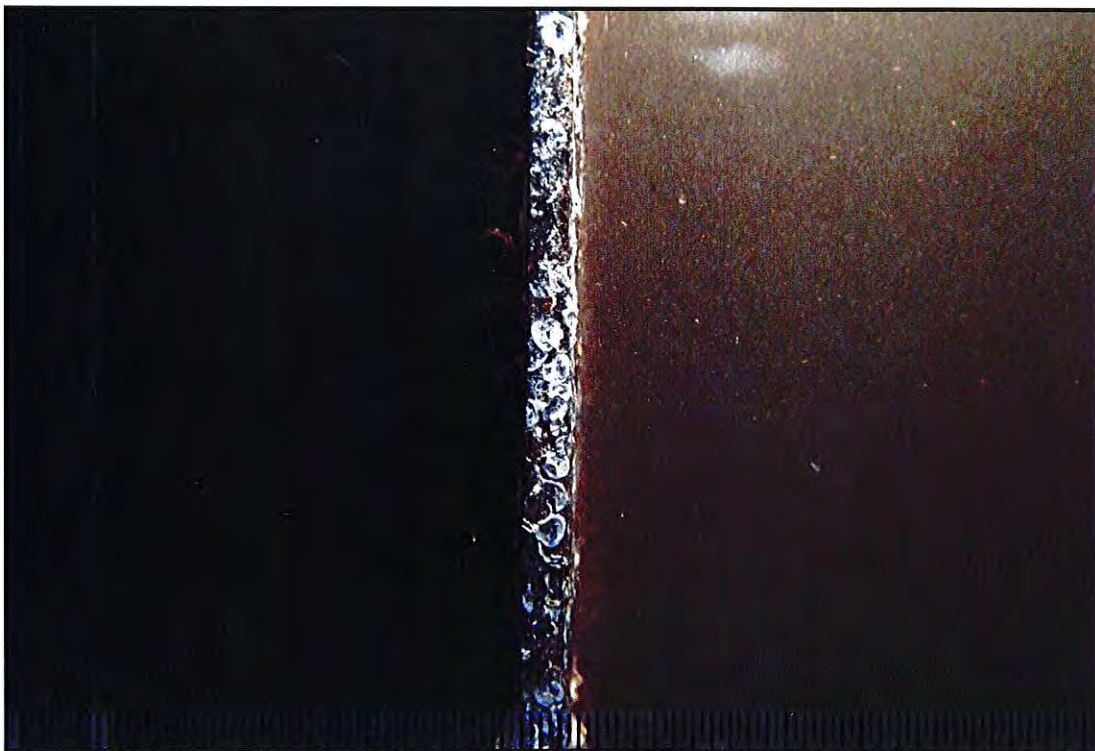


Photo B-20: Typical condition of the flange edge of a H-pile graded Major. H-pile location is the center-west H-pile of the pile cluster at Bent L and Pile Row 19.



Photo B-21: Typical condition of the flange edge of a H-pile graded Severe. H-pile location at Bent K-bar and Pile Row 16-bar South.

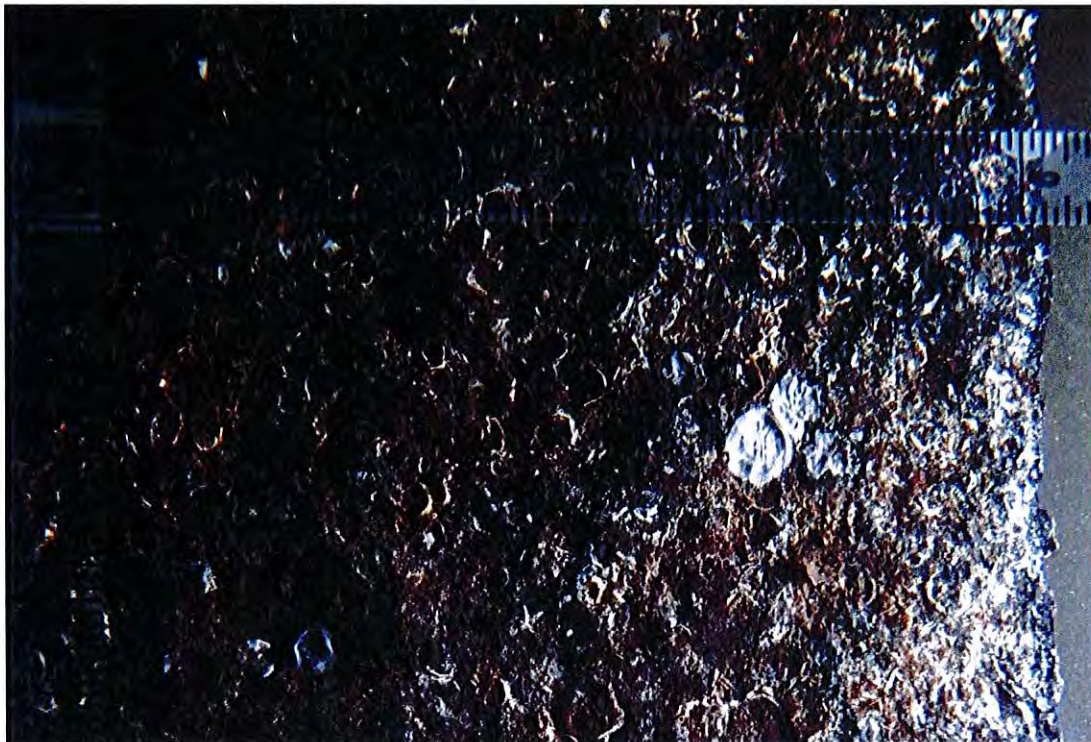


Photo B-22: Typical condition of the flange face of a H-pile graded Severe. H-pile location at Bent K-bar and Pile Row 16-bar South.

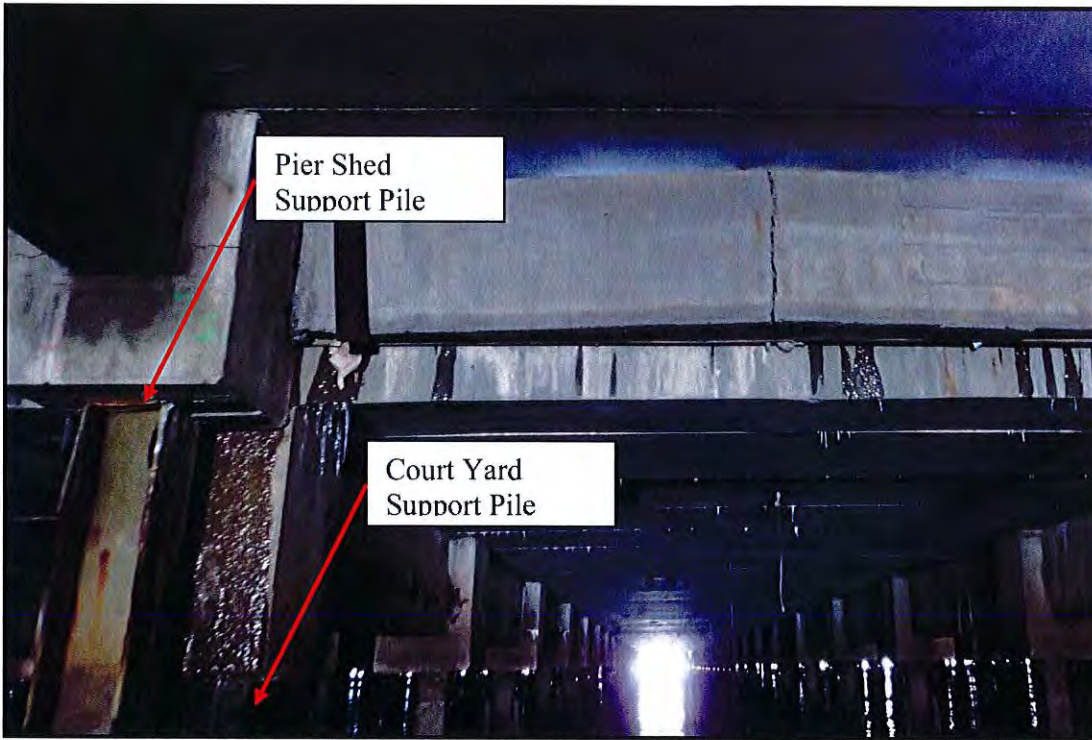


Photo B-23: Interface between Pier Shed and Court Yard. Note the difference in exposed pile length.



Photo B-24: Typical condition of concrete pile cap in the Court Yard. View looking west at Bent 1-bar, Pile Row 9-bar.



Photo B-25: Typical condition of concrete beam in the Court Yard with efflorescence and light cracking. View looking west at Bent I-bar, between Pile Row 9 and 9-bar.



Photo B-26: Typical condition of concrete beam in the Pier Shed with light cracking and light rust staining. View looking north at Bent C, between Pile Row 17 and 17.3.



Photo B-27: Concrete beam in the Pier Shed with a full length spall and exposed reinforcement.
View looking west at Bent T.5 and Pile Row 8-bar.



Photo B-28: Concrete beam in the Pier Shed with a full length spall and exposed reinforcement.
View looking west at Bent D-bar between Pile Row 8.5 and 8-bar.



Photo B-29: Concrete closure wall with large vertical crack and deflection View looking north at Pile Row 7-bar between Bent I and I-bar.



Photo B-30: Concrete closure wall with large vertical crack and deflection View looking east at Pile Row 7-bar between Bent I and I-bar.



Photo B-31: Erosion up to 1 in. deep and exposed reinforcing along the full height of the western edge beam between Pile Rows 7 and 8-bar.



Photo B-32: Rust staining and delamination of the soffit of the first transverse beam north of Bent W at the Finger Pier Extension.



Photo B-33: Typical condition of Court Yard deck soffit with light shrinkage cracks. View looking west between Bent I and I-bar at Pile Row 9-bar.

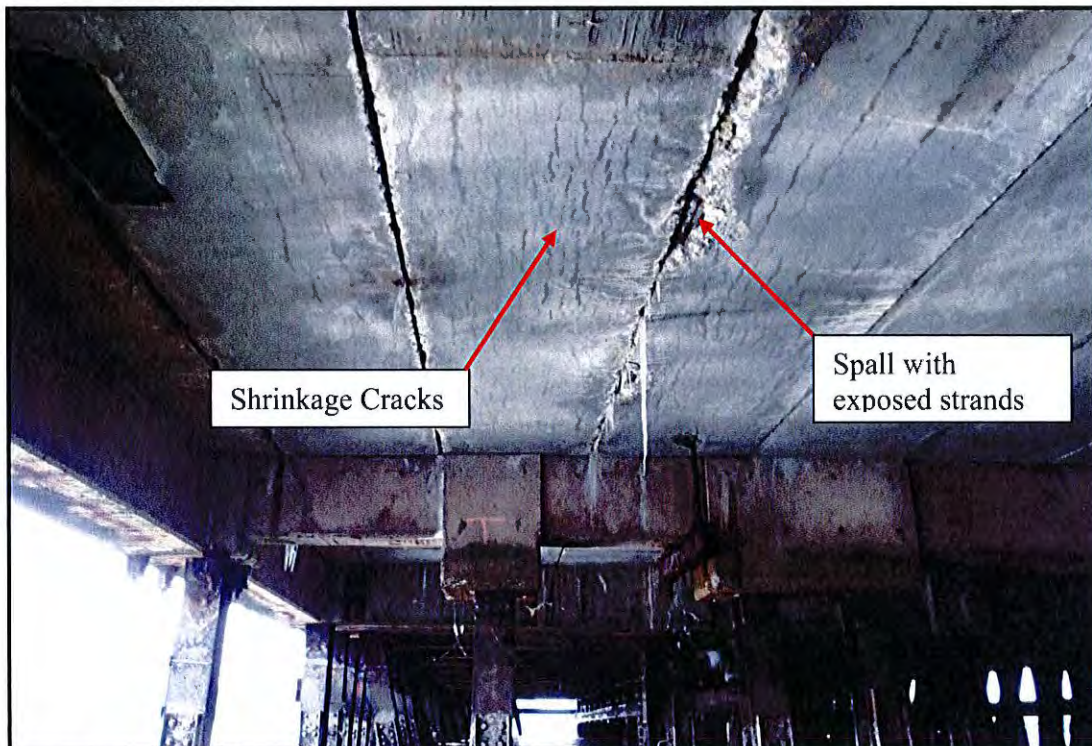


Photo B-34: Typical condition of Pier Shed deck soffit with light efflorescence and light shrinkage cracks. Also note the spall in the deck plank with exposed strands.



Photo B-35: Large spall at Pier Shed deck soffit with exposed reinforcement. View looking north between Bents A and B at Pile Row 3.



Photo B-36: Precast deck plank located east of Pile 9 in Bent F with multiple exposed and broken prestressed strands.



Photo B-37: Spall along the north cap of the Finger Pier Extension between Bent Z and Bent Z.2. View looking north.



Photo B-38: Spall along the deck soffit of the Finger Pier Extension between Bent X.7 and Bent Y adjacent to the north cap. View looking north.



Photo B-39: Fender system along the north side of the Pier. Note the two steel fender piles located north of the timber fender system.



Photo B-40: Pile cluster at the north corner of the Finger Pier Extension. Note the severe damage at the MLW elevation and the loose wire rope wraps at the top of the cluster.



Photo B-41: Close-up of broken piles in the fender pile cluster at the north corner of the Finger Pier Extension.