

Reflective Cracking Testing Notes

Date: March 09, 2017

Project: Reflective Cracking Indoor Phase 5

Temperature:

Ambient temp: 54.5F

Interface temp: T1-N = 26.4F; T1-S = 27.1F

Working Hours: 7:00 AM – 3:30 PM

Sub-Contractor(s): N/A

Equipment: N/A

Reflective Cracking Testing Notes:

Cycle count: 661

South test item observations:

- Outer vertical edge:
 - The entire vertical edge is now cracked. SG6-S-0, SG6-S-1.5, SG6-S-3, SG6-S-4.5 and SG6-S-6 as shown in Figure 1.
 - The propagation of the vertical crack began to deviate from center of the slab.
 - The upper most vertical gauge, SG6-S-6 is not open as shown in Figure 2.
 - Note: Any value higher than 12,000us is an open gauge.
- Joint surface area:
 - The crack has propagated past the vertical edge and gone through SG5-S-6 as shown in Figure 3.
 - SG5-S-6 is open.
 - The crack stopped before reaching SG4-S-6 as shown in Figure 4.
 - There are no cracks around SG3-S-6 and SG2-S-6 as shown in Figure 5.
- Inner vertical edge:
 - None of the inner vertical edge gauges show evidence of cracking.

North test item observations:

- Outer vertical edge:
 - The vertical edge is completely cracked.
 - No changes were observed.
- Joint surface area:
 - No noticeable surface crack propagation as shown in Figure 6.
- Inner vertical edge:
 - No crack on the inner vertical edge.
 - No changes were observed.



Figure 1. Crack through the South vertical edge

| | | | | |
|--------|-------------|-----------|----------|-----------|
| 60.738 | ● SG5-S-6.0 | 14370.270 | ● xx-x | 70.160 |
| 13.326 | ● SG6-S-6.0 | 821.957 | ● T1-S | 27.140 |
| 76.903 | ● SG6-S-4.5 | 3412.062 | ● T2-S | 27.500 |
| 62.902 | ● SG6-S-3.0 | 13720.270 | ● T3-S | 28.220 |
| 69.221 | ● SG6-S-1.5 | 14070.270 | ● T4-S | 28.580 |
| 57.483 | ● SG6-S-0.0 | 13620.270 | ● T5-S | 28.580 |
| 59.909 | ● SG1-N-0.0 | 641.494 | ● T6-S | 28.580 |
| 61.786 | ● SG1-N-1.5 | 578.260 | ● T7-S | 29.120 |
| 25.033 | ● SG1-N-3.0 | 946.485 | ● xx-x | 70.700 |
| 34.490 | ● SG2-N-3.0 | 132.371 | ● T1-N | 26.420 |
| 96.186 | ● SG3-N-3.0 | 14724.270 | ● T2-N | 27.500 |
| 23.875 | ● SG4-N-3.0 | 14070.270 | ● T3-N | 28.580 |
| 00.355 | ● SG5-N-3.0 | 13570.270 | ● T4-N | 28.940 |
| 93.537 | ● SG6-N-3.0 | 13820.270 | ● spare: | -5866.240 |
| 43.616 | ● SG6-N-1.5 | 14220.270 | ● AMB-N | 54.500 |
| 43.999 | ● SG6-N-0.0 | 13370.270 | ● spare: | -5866.240 |

Figure 2. Most vertical edge surface gauges are open

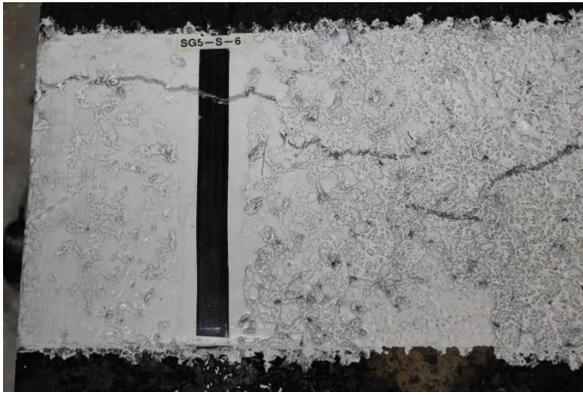


Figure 3. Crack propagate through SG5-S-6

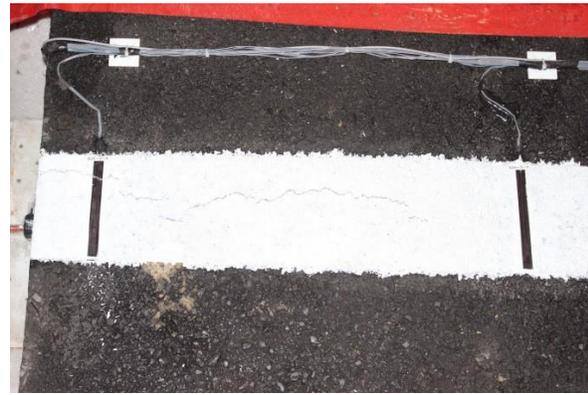


Figure 4. Plan view of South crack propagation

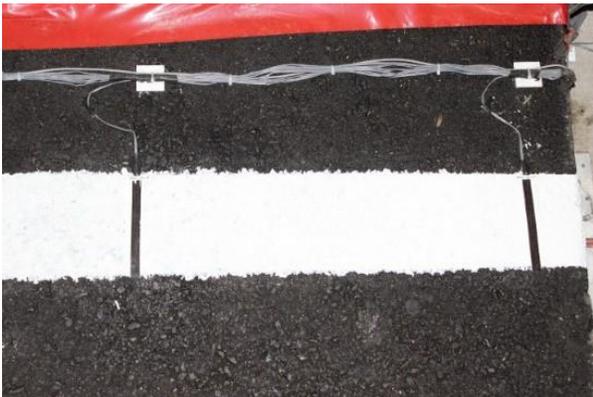


Figure 5. No cracks around SG3-S-6 and SG2-S-6

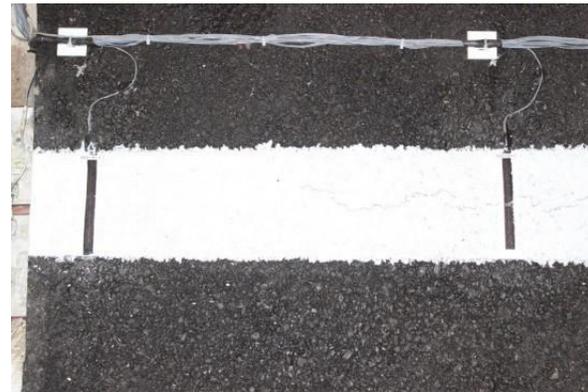


Figure 6. Plan view showing no observed changes to the North side surface