Federal Aviation Administration – William J. Hughes Technical Center

National Airport Pavement Test Facility (NAPTF)

Contract No: 692M15-20-D-00004

ARA TO 005 Structural Airport Pavement NDT and Evaluation

5.1.1.2 CC9 NDT Data Collection (Task 4.1.1.2)

CC9 NDT Survey Notes

Device: GPR – NDT Van

Survey: Weekly Trafficking 20210802

Date: 08/06/2021

Operators: Anthony Kuncas, Christopher Mazzotta, John Mazzagatti

Folder Name: 20210806 GPR Van CC9 Weekly Raw Data

File Formats: DZT, DZX

Time: NA

**General Notes**

* Six (6) longitudinal survey lines collected at -17.25, -15.00, -12.75, +12.75, +15.00, +17.25 ft. offsets while traveling from Station 0+00 to Station 3+00 (West to East).
* Metal plate calibration performed before and after testing. No bounce test performed, as per GSSI recommendations.
* Data collected simultaneously with both 400 MHz ground-coupled and 2.0 GHz air-coupled antennas.
* Begin with air-coupled antenna centered on transverse blue line at Station 0+00.
* Data for both antennas are contained in the same file.
* Each survey has 2 files, one each in DZT and DZX formats.

Test File File Name

Metal Plate Pre-Test 192

Offset -17.25’ (North) 193

Offset -15.00’ (North) 194

Offset -12.75’ (North) 195

Offset +12.75’ (South) 196

Offset +15.00’ (South) 197

Offset +17.25’ (South) 198

Metal Plate Post-Test 199

**Survey Notes**

* Ranges adjusted based on recommendations from Omar Elbagalati (ARA-Austin).
  + 400 MHz – changed from 50 ns to 25 ns (to reduce depth of penetration and increase resolution)
  + 2.0 GHz – changed from 12 ns to 14 ns (to capture layer interface)
* One blue GPR cable has nick in sheathing and is temporarily repaired with electrical tape (observed and repaired prior to ARA taking over operations on 07/01/21. Should be replaced.