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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

# ASPHALT DENSITY DETERMINATION REPORT

DATE: 6/18/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kerchevel Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2408

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Cadillac Asphalt

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

|                                                                                             |        |       |                       |             |                      |        |                         |             |                  |                                 |                   |           |        |
|---------------------------------------------------------------------------------------------|--------|-------|-----------------------|-------------|----------------------|--------|-------------------------|-------------|------------------|---------------------------------|-------------------|-----------|--------|
| TEST PERFORMED ON:                                                                          |        |       | WEARING COURSE (WC)   |             | X                    |        | LEVELING COURSE (LC)    |             | BASE COURSE (BC) |                                 | OTHER             |           |        |
| STRUCTURE:                                                                                  |        |       |                       |             |                      |        |                         |             |                  |                                 |                   |           |        |
| TEST                                                                                        |        |       | WET DENSITY           |             | MOISTURE             |        |                         | DENSITY     |                  | TEST LOCATION                   |                   |           |        |
| ORIG.                                                                                       | RETEST | DEPTH | DENSITY COUNTS        | WET DENSITY | MOIST. COUNTS        | MOIST. | MOIST.                  | MAX DENSITY | COMPACT.         | STATIONING/LOCATION             | OFFSET OF CL (FT) |           | COURSE |
|                                                                                             |        | INCH  | DC                    | PCF         | MC                   | PCF    | %                       | PCF         | %                |                                 | LEFT              | RIGHT     |        |
| 1                                                                                           |        | BS    | 840                   | 143.3       | 55                   | 7.6    | 5.6                     | 154.9       | 92.5             | 11+00                           |                   | 26.00     | BL     |
| 2                                                                                           |        | BS    | 805                   | 146.5       | 69                   | 9.8    | 7.1                     | 154.9       | 94.6             | 12+75                           |                   | 26.00     | BL     |
| 3                                                                                           |        | BS    | 832                   | 144         | 68                   | 9.6    | 7.1                     | 154.9       | 92.9             | 15+00                           |                   | 27.00     | BL     |
| 4                                                                                           |        | BS    | 792                   | 147.8       | 58                   | 8      | 5.7                     | 154.9       | 95.4             | 19+50                           |                   | 26.00     | BL     |
| 5                                                                                           |        | BS    | 810                   | 146         | 61                   | 8.5    | 6.2                     | 154.9       | 94.3             | 24+25                           |                   | 27.00     | BL     |
| 6                                                                                           |        | BS    | 753                   | 151.8       | 54                   | 7.4    | 5.1                     | 154.9       | 98               | 30+00                           |                   | 27.00     | BL     |
| 7                                                                                           |        | BS    | 821                   | 144.9       | 74                   | 10.5   | 7.8                     | 154.9       | 93.6             | 39+50                           |                   | 27.00     | BL     |
| 8                                                                                           |        | BS    | 847                   | 142.8       | 47                   | 6.3    | 4.6                     | 154.9       | 92.2             | 48+50                           |                   | 26.00     | BL     |
| 9                                                                                           |        | BS    | 845                   | 142.8       | 61                   | 8.5    | 6.3                     | 154.9       | 92.2             | 66+00                           |                   | 26.00     | BL     |
|                                                                                             |        |       |                       |             |                      |        |                         |             |                  |                                 |                   |           |        |
|                                                                                             |        |       |                       |             |                      |        |                         |             |                  |                                 |                   |           |        |
| MAXIMUM DETERMINATION (LAB)                                                                 |        |       |                       |             |                      |        |                         |             |                  | PRESCALE                        |                   |           |        |
| NOTE: Gmb to Marshall conversion is $Gmb \times 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$ |        |       |                       |             |                      |        |                         |             |                  | 16                              |                   | 16        |        |
| NOTE: Gmm to TMD conversion is $Gmm \times 62.4 \text{ (PCF)} = \text{TMD (PCF)}$           |        |       |                       |             |                      |        |                         |             |                  | DENSITY                         |                   | MOISTURE  |        |
| MAXIMUM WET DENSITY BY:                                                                     |        |       | MARSHALL/Gmb 95.0%    |             |                      |        | TMD/Gmm 92.0% - 96.0%   |             |                  | DENSITY                         |                   | MOISTURE  |        |
|                                                                                             |        |       | TMD/Gmm 92.0% - 97.0% |             |                      |        | X TMD/Gmm 92.0% - 98.0% |             |                  | READING 1                       |                   | 2841 388  |        |
| REMARKS:                                                                                    |        |       |                       |             |                      |        |                         |             |                  | READING 2                       |                   | 2845 387  |        |
| Mix used was 5E3. TMD = 154.9                                                               |        |       |                       |             |                      |        |                         |             |                  | READING 3                       |                   | 2860 394  |        |
|                                                                                             |        |       |                       |             |                      |        |                         |             |                  | READING 4                       |                   | 2840 388  |        |
|                                                                                             |        |       |                       |             |                      |        |                         |             |                  | OPERATING STANDARDS (READING 5) |                   |           |        |
|                                                                                             |        |       |                       |             |                      |        |                         |             |                  | DENSITY                         |                   | MOISTURE  |        |
|                                                                                             |        |       |                       |             |                      |        |                         |             |                  | 2847                            |                   | 388       |        |
| SOMAT FIELD REPRESENTATIVE:                                                                 |        |       |                       |             | Cody Cervelli        |        |                         |             |                  | DATE:                           |                   | 6/18/2020 |        |
| SOMAT PROJECT MANAGER(s):                                                                   |        |       |                       |             | Steve Drummond, P.E. |        |                         |             |                  | DATE:                           |                   | 6/19/2020 |        |

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