### SUMMARY OF ROADWAY QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>ITEM DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-1</td>
<td>MOBILIZATION</td>
<td>1.00</td>
<td>LS</td>
</tr>
<tr>
<td>102-1</td>
<td>MAINTENANCE OF TRAFFIC</td>
<td>1.00</td>
<td>LS</td>
</tr>
<tr>
<td>110-1-1</td>
<td>CLEARING AND GRUBBING</td>
<td>1.00</td>
<td>LS</td>
</tr>
<tr>
<td>110-4-10</td>
<td>REMOVE OF EXISTING CONCRETE</td>
<td>66.00</td>
<td>SY</td>
</tr>
<tr>
<td>160-4</td>
<td>TYPE B STABILIZATION (12&quot;)</td>
<td>430.00</td>
<td>SY</td>
</tr>
<tr>
<td>210-1-8</td>
<td>LIMEROCK STABILIZED BASE, 4&quot; (FOR PAVERS)</td>
<td>124.00</td>
<td>SY</td>
</tr>
<tr>
<td>285-706</td>
<td>OPTIONAL BASE, BASE GROUP 06 (8&quot;)</td>
<td>411.00</td>
<td>SY</td>
</tr>
<tr>
<td>327-70-19</td>
<td>MILLING EXIST ASPH PAV., 3/4 AVG DEPTH</td>
<td>579.00</td>
<td>SY</td>
</tr>
<tr>
<td>334-1-13</td>
<td>SUPERPAVE ASPHALTIC CONC., TRAFFIC C, (2&quot;) (SP-9.5)</td>
<td>43.00</td>
<td>TN</td>
</tr>
<tr>
<td>337-7-82</td>
<td>ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, (1&quot;) FC-9.5, PG 76-22</td>
<td>53.00</td>
<td>TN</td>
</tr>
<tr>
<td>425-5</td>
<td>MANHOLE, ADJUST</td>
<td>2.00</td>
<td>EA</td>
</tr>
<tr>
<td>520-1-7</td>
<td>CONCRETE CURB &amp; GUTTER, TYPE E</td>
<td>270.00</td>
<td>LF</td>
</tr>
<tr>
<td>520-1-10</td>
<td>CONCRETE CURB &amp; GUTTER, TYPE F</td>
<td>996.00</td>
<td>LF</td>
</tr>
<tr>
<td>522-2</td>
<td>CONCRETE SIDEWALK AND DRIVEWAYS, 6&quot; THICK</td>
<td>63.00</td>
<td>SY</td>
</tr>
<tr>
<td>526-1-1</td>
<td>BRICK PAVERS, ARCHITECTURAL, F&amp;I ROADWAY (MEDIAN)</td>
<td>124.00</td>
<td>SY</td>
</tr>
<tr>
<td>527-2</td>
<td>DETECTABLE WARNINGS</td>
<td>66.50</td>
<td>SF</td>
</tr>
</tbody>
</table>

### SUMMARY OF SIGNAGE & MARKING QUANTITIES

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>ITEM DESCRIPTION</th>
<th>ESTIMATED QUANTITY</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-1-12</td>
<td>SINGLE POST SIGN, F&amp;I GROUND MOUNT, UP TO 12-20 SF</td>
<td>2.00</td>
<td>AS</td>
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<tr>
<td>700-1-50</td>
<td>SINGLE POST SIGN, RELOCATE</td>
<td>3.00</td>
<td>AS</td>
</tr>
<tr>
<td>700-1-101</td>
<td>SIGN PANEL, FURNISH &amp; INSTALL GROUND MOUNT, UP TO 12 SF</td>
<td>4.00</td>
<td>EA</td>
</tr>
<tr>
<td>706-1-1</td>
<td>RAISED PAVEMENT MARKER</td>
<td>111.00</td>
<td>EA</td>
</tr>
<tr>
<td>710-1123</td>
<td>PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12&quot;</td>
<td>383.00</td>
<td>LF</td>
</tr>
<tr>
<td>710-1125</td>
<td>PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24&quot;</td>
<td>72.00</td>
<td>LF</td>
</tr>
<tr>
<td>710-11201</td>
<td>PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6&quot;</td>
<td>0.03</td>
<td>GM</td>
</tr>
<tr>
<td>711-1125</td>
<td>THERMOPLASTIC, STANDARD, WHITE, SOLID, 24&quot; FOR STOP LINE AND CROSSWALK</td>
<td>72.00</td>
<td>LF</td>
</tr>
<tr>
<td>711-1170</td>
<td>THERMOPLASTIC, STANDARD, WHITE, ARROW</td>
<td>18.00</td>
<td>EA</td>
</tr>
<tr>
<td>711-12231</td>
<td>THERMOPLASTIC, REFURBISHMENT, WHITE, SKIP, 6&quot;</td>
<td>0.06</td>
<td>GM</td>
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<td>711-16101</td>
<td>THERMOPLASTIC, STANDARD, WHITE, SOLID, 6&quot;</td>
<td>0.26</td>
<td>GM</td>
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<td>711-16201</td>
<td>THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6&quot;</td>
<td>0.27</td>
<td>GM</td>
</tr>
</tbody>
</table>

**PAY ITEMS NOTES:**
- INSTALLATION MUST FOLLOW FDOT STANDARD SPECIFICATIONS SECTION 526.
- INCLUDES COST OF BRICK PAVERS, BEDDING SAND, AND GEOTEXTILE FABRIC.
NOTE:
* CROSS SLOPE VARIES BETWEEN 0.02 TO 0.03
** REFER TO WIDENING DETAIL 2
*** PAVERS COLORS & PATTERN TO BE DETERMINED BY OWNER

TRAFFIC DATA
CURRENT YEAR = 2020
DESIGN SPEED = 40 MPH
POSTED SPEED = 40 MPH

PAVEMENT DESIGN WIDENING
ROCK ISLAND RD
Sta. 9+74.97 to 23+23.88

NOT TO SCALE

NOT: ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
NOTE:
1. CONTRACTOR TO OBTAIN NOT PERMIT FROM THE CITY OF NORTH LAUDERDALE PRIOR TO THE BEGINNING OF THE CONSTRUCTION.
NOTE:
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2. CONTRACTOR TO INSTALL TEMPORARY FOOT PAINT FOR PAVEMENT MARKINGS AND INSTALL THERMOPLASTIC PAVEMENT MARKINGS AFTER 30 DAYS.
3. ANY PAVEMENT MARKINGS OR SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED ACCORDING TO BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS.
4. ALL EXISTING STREET NAME SIGNS SHALL REMAIN IN PLACE OR BE RELOCATED OR REPLACED.
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SIGNING AND PAVEMENT MARKINGS PLANS

CITY OF NORTH LAUDERDALE

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**Sign Post with 3" x 7 ga. Square Anchor**

- **Post Size Table**
  - Height (h) [ft]:
    - 3 ft: 8 in.
    - 4 ft: 8 in.
    - 5 ft: 8 in.
    - 6 ft: 8 in.
    - 7 ft: 8 in.
    - 8 ft: 8 in.
    - 9 ft: 8 in.
    - 10 ft: 8 in.

- **Ground Sign Assembly**
  - Height: (measure from ground)
  - 3 ft: 8 in.
  - 4 ft: 8 in.
  - 5 ft: 8 in.
  - 6 ft: 8 in.
  - 7 ft: 8 in.
  - 8 ft: 8 in.
  - 9 ft: 8 in.
  - 10 ft: 8 in.

- **Central Cluster Height:**
  - 7 ft Min Ground Clearance
  - 6 ft Min Ground Clearance

- **Installation Required:** with Triangular Slip Base

- **Hardware includes:** 2 each 3/8" x 3-1/2" OF, Flanged Shoulder Bolt and Flange Nut

**Sign Post with Triangular Slip Base**

- **Triangular Slip Base Assembly For**
  - 2-1/2" Perforated Square Tube Sign Post

- **Post Receiver**
- **Red Torque Bolt**
- **Facing Incoming Traffic**
- **Washer**
- **Flange Nut**

- **Note:** Dimensions and certain details for the parts used to assemble the slip base connections are intentionally not shown. Slip base connections are patented manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are only shown on this plan to illustrate how the parts are assembled. The complete assembly must be designed to withstand 150 mph Base Wind Speed per 2013 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th edition and inserts.

**Revisions**

- **DATE**
  - 03-21-2017
  - 03-05-2016
  - UPDATED POST SIZE

- **DESCRIPTION**
  - NA

- **DESIGN BY:**
  - STEPHAN RODOLFI, P.E.

- **DRAWN BY:**
  - ANDREW SEBO, P.E., PTOE

**Ground Sign Assembly Details**

**Sheet No.**

1 of 1

**Certificate of Authorization**

- **CITY OF NORTH LAUDERDALE**
- **FRED ALVARAS, P.E.**
- **FRED ALVARAS, P.E.**
  - F.E. LICENSE NUMBER 35941
  - CARNAHAN PROCTOR & CROSS, INC.
  - 814 S. MILITARY TRAIL
  - DEERFIELD BEACH, FL 33442
  - CERTIFICATE OF AUTHORIZATION 2016

**City of North Lauderdale**

**Public Works Department**

**Traffic Engineering Division**

**Florida**

**Broward County**

**Presence & Vargas, P.E.**

- P.E. LICENSE NUMBER 35941
- CARNAHAN PROCTOR & CROSS, INC.
- 814 S. MILITARY TRAIL
- DEERFIELD BEACH, FL 33442
- CERTIFICATE OF AUTHORIZATION 2016

**Acted #2305/18060**