STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 440212-1-52-01
(FEDERAL FUNDS)

TRUCK PARKING AVAILABILITY SYSTEMS (TPAS)
INTELLIGENT TRANSPORTATION SYSTEM PLANS

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2016 Design Standards and revised Index Drawings as appended herein, and 2016 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the “Design Standards” link at the following web site: http://www.dot.state.fl.us/rddesign/

For the Standard Specifications for Road and Bridge Construction click on the “Specifications” link at the following web site: http://www.dot.state.fl.us/specificationsoffice/

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

IT’S SHOP DRAWINGS TO BE SUBMITTED TO:

50% PLANS PREPARED BY:

IT-01 TO IT-05B ITS PLAN SHEETS

KEY SHEET

FOR ILLUSTRATION PURPOSE ONLY

FDOT PROJECT MANAGER:

TRUCK PARKING AVAILABILITY SYSTEMS (TPAS) PLANS ENGINEER OF RECORD:

P.E. NO:

FISCAL YEAR SHEET NO.

16 1
GENERAL NOTES

1. The location(s) of the utilities shown in the plans are based on limited investigation techniques and mark-ups from utility owners. All utilities should be considered approximate only.

2. The contractor shall notify utility owners listed through Sunshine State One Call a two business days in advance of beginning construction on the job site.

3. Fiber optic and power pull boxes and conduit shall be located within 100 feet of the device they support. Its device locations are approximate and may require relocation by the project engineer. In defer to device locations, any reason. Poles and conduits supporting that device shall be relocated and/or extended.

4. Install fiber optic conduit for communication to devices shown in the plans and in accordance with all standard specifications for conduit installation.

5. The contractor shall be responsible for furnishing and installing above ground tubular route markers per section 8.6 of the FDOT standard specifications. Markers shall be placed at a maximum of 50 feet and at every pull and splice box. A marker label template shall be provided for review.

6. The conduit shall be sealed with the specified duct plug at the time of conduit installation and after final fiber installation.

7. Electrical power service meters shall have a separate breaker for each circuit.

8. The contractor shall hand dig (soft dig) to a depth of four (4) feet where utilities are in conflict. Prior to use of a mechanical auger, any potential conflicts shall be reported to the project engineer immediately.

UTILITY OWNERS

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT&amp;T Distribution</td>
<td>954-723-2240</td>
</tr>
<tr>
<td>Century Link</td>
<td>239-336-2003</td>
</tr>
<tr>
<td>City of Bradenton</td>
<td>863-952-5320</td>
</tr>
<tr>
<td>City of Punta Gorda</td>
<td>941-535-3339</td>
</tr>
<tr>
<td>Comcast Cable</td>
<td>215-266-1700</td>
</tr>
<tr>
<td>Duke Energy</td>
<td>407-805-3232</td>
</tr>
<tr>
<td>Fibernet Direct</td>
<td>850-952-2935</td>
</tr>
<tr>
<td>Florida Power &amp; Light</td>
<td>888-329-5162</td>
</tr>
<tr>
<td>Frontier</td>
<td>352-343-2244</td>
</tr>
<tr>
<td>Gulfstream Natural Gas</td>
<td>561-273-7038</td>
</tr>
<tr>
<td>Lee County Electric Co-op</td>
<td>239-656-2614</td>
</tr>
<tr>
<td>Lee County Signal Department</td>
<td>239-533-9905</td>
</tr>
<tr>
<td>Lee County Irrigation</td>
<td>239-533-9400</td>
</tr>
<tr>
<td>Lee County Utilities</td>
<td>239-419-4818</td>
</tr>
<tr>
<td>Manatee County Utilities</td>
<td>239-533-6900</td>
</tr>
<tr>
<td>TECO Peoples Gas</td>
<td>239-664-5511</td>
</tr>
</tbody>
</table>

LEGEND

EXISTING PROPOSED

- - - GROUND SENSORS
| | REPEATER
| | ACCESS POCKET
| | DETECTION ZONE
| | CCTV WITH POLE
| | MVDS

----- MULTI-POST STATIC SIGN W/ ELECTRICAL DISPLAY SIGN
----- BASE MOUNT CABINET
| | POLE MOUNT CABINET
| | PULL BOX
| | FIBER OPTIC PULL BOX
| | SPICE VAULT
| | POWER SERVICE
| | POLE

| | DMS
----- CONDUIT, OPEN TRENCH
----- CONDUIT, DIRECTIONAL BORE
----- FIBER OPTIC RUN
----- POWER RUN
Each truck parking stall will have an array of in-ground sensors (Typ.).

2-2" conduit (Directional Bore)
- Power
- Spare

2-2" conduit (Open Trench)
- Power
- Spare

Existing fiber trunkline (Existing)

Fiber optic splice vault (Existing)

Install new communication cable using existing conduit entering into existing cabinet

1 media converter in the existing its cabinet

Electrical pull box (Typ.)

Electrical pull box (Typ.) (Existing)

In-ground sensors (Typ.)

Will have an array of each truck parking stall for transmission of messages from the ground sensors to the access point.

1 type II pole (Typ.)

1 repeater (Typ.)

4 FO terminations, in existing its cabinet

1 FOC connector panel

1 buffer tube fan out kit

1 FOC patch panel

1 Ethernet switch

1 media converter

1 dome CCTV camera (IP HD camera)

400/240 VAC single phase power supplied from the existing its power service

1 type 336S its field cabinet NEMA 3R

1 repeater

1 access point

1 type II its field cabinet NEMA 3R

1 media converter

1 Ethernet switch

1 media converter

1 FOC patch panel

1 buffer tube fan out kit

1 FOC connector panel

4 FO terminations

New power service required

Parcel derived R/W

Parcel derived R/W

Parcel derived R/W

State of Florida

Department of Transportation

Truck parking availability system

Polk County, FDOT district 1

Rest area 10201 (23 spaces)

Eastbound mile marker 46

Reference - FPID 409366-4-52-01

440212-1-52-01

Road no. County Financial project no.

1-4 Polk 440212-1-52-01

Sheet no.
EXISTING ITS INFRASTRUCTURE REFERENCE USING EXISTING CONDUIT ENTERING INTO CABINET
INSTALL NEW POWER AND COMMUNICATION CABLES

EXISTING POWER CONDUIT WITH CONDUCTORS
INTERCEPT EXISTING FIBER PULL BOX

EXISTING FIBER OPTIC DROP CONDUIT
EXISTING ELECTRICAL PULL BOX (TYP.)
EXISTING FIBER OPTIC SPLICE VAULT

EXISTING ITS POWER SERVICE DROP
EXISTING POWER CONDUIT WITH CONDUCTORS (EXISTING)
EXISTING ELECTRICAL PULL BOX (TYP.)
EXISTING FIBER OPTIC SPLICE VAULT

MILE MARKER 42

EXISTING FIBER OPTIC PULL BOX (TYP.)
EXISTING FIBER OPTIC TRUNKLINE (EXISTING)
EXISTING FIBER OPTIC PULL BOX (TYP.)
EXISTING FIBER OPTIC DROP CONDUIT

TPAS SIGN 10201
POLK COUNTY, FDOT DISTRICT 1
TRUCK PARKING AVAILABILITY SYSTEM
IT-01A
1-4

1-4 WB
1-4 EB

PARCEL DERIVED R/W

3-FO TERMINATORS
1 FOC CONNECTOR PANEL
1 BUFFER TUBE FAN OUT KIT
1 FOC PATCH PANEL
1 MEDIA CONVERTER
1 MULTI POST STATIC SIGN WITH EMBEDDED DMS

COMMUNICATION FROM NEAREST ITS CABINET
POLE MOUNTED NEMA CABINET
POWER FROM NEAREST ITS CABINET
3-DIGIT EMBEDDED DMS SIGN SPACING REQUIREMENTS)
(ADJUST SIGN LOCATION PER MUTCD WEST OF REST AREA (MM 46)

TRUCK PARKING AVAILABILITY SIGN WITH 3 DIGIT EMBEDDED DMS AT EB MM 42.16
WEST OF REST AREA (MM 46)

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
TRUCK PARKING AVAILABILITY SYSTEM
FPID 409366-4-52-01
POLK COUNTY, FDOT DISTRICT 1
EXIT 48
EXIT 41
EXIT 44
EXIT 570
EXIT 559
EXIT 48
EXIT 41
EXIT 44
EXIT 570
EXIT 559

I-4  E B
I-4  W B

LOCATION
IN-GROUND SENSORS (TYP.) WILL HAVE AN ARRAY OF EACH TRUCK PARKING STALL TO THE ACCESS POINT FROM THE GROUND SENSORS FOR TRANSMISSION OF MESSAGES.

1 TYPE II POLE (TYP.)
1 REPEATER (TYP.)
4 FO TERMINATIONS
1 FOC CONNECTOR PANEL
1 BUFFER TUBE FAN OUT KIT
1 FOC PATCH PANEL
1 ETHERNET SWITCH
1 MEDIA CONVERTER
1 POLE
1 TYPE 336S ITS FIELD CABINET NEMA 3R
1 REPEATER
1 ACCESS POINT
1 DOME CCTV CAMERA (IP HD CAMERA) - SPARE

FIBER SPLICE VAULT INTERCEPT EXISTING ITS INFRASTRUCTURE REFERENCE

1 12 STRAND FOC - SPARE
3-2" CONDUIT (OPEN TRENCH) - POWER
1 12 STRAND FOC - SPARE
3-2" CONDUIT (OPEN TRENCH) - POWER
1 12 STRAND FOC - SPARE
3-2" CONDUIT (OPEN TRENCH) - POWER
1 12 STRAND FOC - SPARE
3-2" CONDUIT (OPEN TRENCH) - POWER
1 12 STRAND FOC - SPARE
EXISTING ITS INFRASTRUCTURE REFERENCE

- FPID 414738-1-52-01

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

TRUCK PARKING AVAILABILITY SYSTEM
CHARLOTTE COUNTY, FDOT DISTRICT 1
NORTHBOUND MILE MARKER 158
WEIGH STATION 10602 (23 SPACES)
SOUTHBOUND MILE MARKER 158
WEIGH STATION 10601 (23 SPACES)

PURPOSE ONLY
FOR ILLUSTRATION
PURPOSE ONLY