

 Hollywood, FL

 June 13-14, 2024

2024 TRANSPORTATION SYMPOSIUM

Design Lessons Learned



Leslie Wetherell, PE

FDOT, District 4

Presenter Info

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District 4

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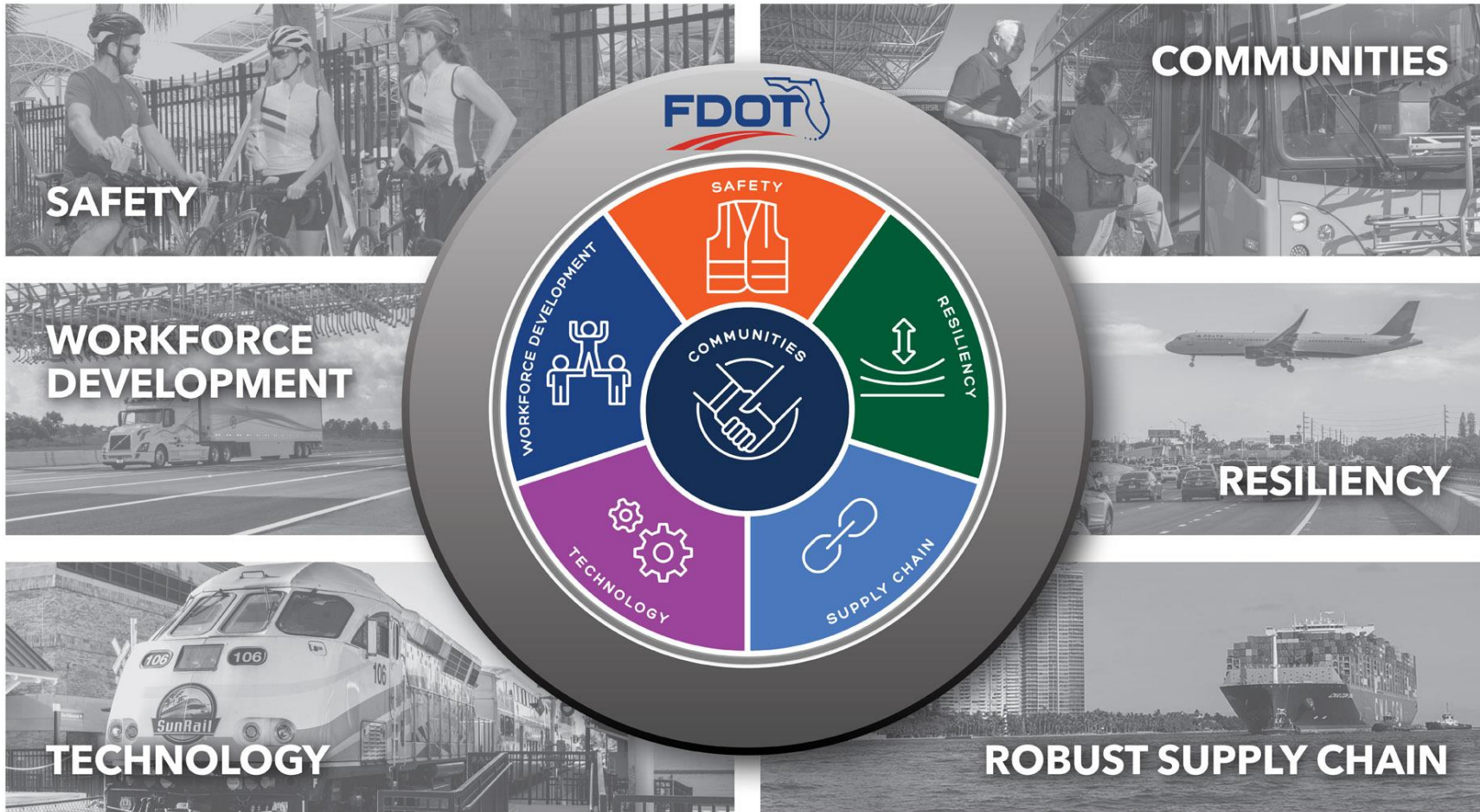
Objectives

Lessons Learned

Tips and Tricks

How can we
continue to
improve based on
past experiences?

FDOT COMPASS



Lessons Learned – Bus Shelters

Bus Shelters

Check with Transit
Agency

FTA



Lessons Learned – Proprietary Products

Proprietary Products

- Lighting
- Signal
- ITS
- Irrigation
- Other

BABA

Lessons Learned – Proprietary Products

Proprietary Products (PPC)

Need

- Form 110 (located in FDM)
- Letter from Agency
- Specifications
- Plans notes

Must be BABA (Build America, Buy America Act) compliant

Lessons Learned – Proprietary Products

- Form 110 (located in FDM)

2024 FDOT Design Manual - [Complete FDM Document Download](#)

To view the Implementation Bulletin for the current FDM, please see [RDB23-03](#).

[Summary of Revisions](#)

[Development and Processes - Complete FDM Part 1 Download](#)

Chapter	Training	Bulletin	Errata	Description
				<i>Introduction</i>
100				Introduction
Link				Context Classification
102				Glossary of Terms
103				Standard Forms

Lessons Learned – Proprietary Products

- Form 110 (located in FDM)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
PROPRIETARY PRODUCT CERTIFICATION

600-020-07
PROGRAM MANAGEMENT
09/16

FDOT

To: John Olson, P.E. Date: 2/9/2023
Design Engineer

Financial Project ID: 446173-1-52-01 New Const. RRR
Federal Aid Number: n/a
Project Name: SR-5/N Federal Hwy from south of 10th Ave South to 6th Ave North
State Road Number: 5 Co. / Sec. / Sub.: 93020-000
Begin Project MP: 0.773 End Project MP: 2.071
Full Federal Oversight: No Yes Note: If Yes, submit to FHWA Director.

A justification and all supporting documents must be attached to this document.
Mark the appropriate certification:

"I, Fattoush Jafar, PE Ph.D, Mgr. of Signal and SL Design, of the P.B. County Traffic Div.
Print Name of Initiator Position Title Name of Agency

do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2),
Mark appropriately (choose only one option):

that this patented or proprietary item is essential for synchronization with existing highway facilities.
 that no equally suitable alternative exists for this patented or proprietary item."

Signature: [Signature] Date: 2-9-2023

For Department Use Only

"I, John J. Olson, P.E., District Design Engineer
Print Name Position Title

of the Florida Department of Transportation, do hereby approve this certification request made in accordance with the requirements of 23 CFR 635.411(a)(2).
Mark appropriately (choose only one option):

that this patented or proprietary item is essential for synchronization with existing highway facilities.
 that no equally suitable alternative exists for this patented or proprietary item."
Identify any conditions and limitations:

DocuSigned by:
John J. Olson, P.E. 06/09/2023 | 3:50 PM EDT
Signature Date

Form 110

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
Proprietary Product Certification

To: _____ Date: _____
District or Turnpike Design Engineer

Financial Project ID: _____
Federal Aid Number: _____
Project Name: _____
State Road Number: _____ Co. / Sec. / Sub.: _____
Begin Project MP: _____ End Project MP: _____

Attach justification and supporting documents.
Mark the appropriate certification (below):

"I, _____, of the _____
Print Name of Initiator Position Title Name of Agency
do hereby certify that the following condition(s) apply. Mark appropriately:

that this patented or proprietary item is most compatible with existing highway facilities;
 that this patented or proprietary item provides greater flexibility with existing and/or future highway facilities;
 that this patented or proprietary item fosters innovation in highway transportation technology.

Print Name, District/Turnpike Design Engineer Signature

of the Florida Department of Transportation, do hereby approve this certification request made in accordance with the policies and procedures of the Department. Mark appropriately:

that this patented or proprietary item is most compatible with existing highway facilities;
 that this patented or proprietary item provides greater flexibility with existing and/or future highway facilities;
 that this patented or proprietary item fosters innovation in highway transportation technology;
 that this patented or proprietary item satisfies Build America / Buy America (BABA) requirements;
 that this patented or proprietary item is included as FDOT Approved Products Listing (APL) Number _____;
 that no equally suitable alternative exists for this patented or proprietary item."
Identify any conditions and limitations:

Signature Date

Lessons Learned – Proprietary Products

- Excerpt of letter from agency (or FDOT)
- Good example

Agency's maintenance inventory:

The sole use of these products have determined to be necessary based on Function and Logistics. The requested products will be integrated with the County's existing traffic signal systems and will be included in the County's maintenance management. The County requires the same devices throughout its network for seamless operation and maintenance.

Commander ATC Traffic Controller

- Manufacturer: Cubic ITS Inc (Trafficware)
- NEMA TS2 Type 2
- APL Certification: 671-017-014

Traffic Controller Cabinet Assembly – NEMA TS-2 Type 6 (2 Rack):

- Manufacturer: Cubic ITS Inc. (Trafficware)
- Model: 70006-TS2/FL
- APL Certification: 676-023-004

Lessons Learned – Proprietary Products

- Excerpt of letter from agency (or FDOT)
- Bad example

Dear Mr. Olson

The City [REDACTED] requests that the following proprietary item be allowed in the above referenced project:

Rainbird Irrigation Supplies- Rainbird is currently being used as the standard throughout the City of [REDACTED] The City, for the sake of inventory supply and consistency, is requiring this product on all projects where applicable.

Given the above, please accept this letter as our request to specify Rainbird products on the [REDACTED] Project.

Lessons Learned – Proprietary Products

- Specs



Lessons Learned – Proprietary Products

- Plan notes

PAY ITEM NOTES

PAY ITEM NO. 646-1-11

TRANSFORMER BASE SHALL BE PELCO PRODUCTS MODEL SP-1116-FL. APL NO. 646-001-001.

Lessons Learned – Proprietary Products

- FDOT
 - Some FDOT Offices request proprietary products
 - ITS
 - Drainage
 - MUST process the same paperwork as an agency
- Not a solution
 - Plan note/design plans reflecting “...or approved equal to XXXX...”

Lessons Learned – Proprietary Products

Traffic Signal Devices must be on the APL

[Florida Statute 316.0745 \(3\)](#) requires “All official traffic control signals or official traffic control devices purchased and installed in this state by any public body or official shall conform with the manual and specifications published by the Department of Transportation pursuant to subsection (2).”

Please refer to the Department’s Traffic Engineering Research Laboratory (TERL) Product Certification Handbook (PCH) [Section 4](#) for a list of all Traffic Control Devices with required APL listing

Don’t wait until the last minute. Agencies that are requesting PPC items that are not on the APL must work with the vendors to get the items on the APL, and it might not even possible, and then the agency has to determine an alternate approach.

Lessons Learned – Utilities

Utilities – Power Supply



Remember, there are different power companies



FPL



FPUA

Lake Worth Beach



You MUST confirm with each power company their preferences for service drops/meters/etc, do NOT assume based on past projects

Lessons Learned – Signals - Lighting

Signals - Lighting

Remember, there are different maintaining agencies for signals

- All counties
- Some cities



And lighting

- Counties
- Cities/Villages/towns
- FDOT

You **MUST** confirm with maintaining agencies their preferences for signals and/or lighting, do NOT assume based on past projects

Lessons Learned – MMOAs

- Don't forget the MMOA (Maintenance Memorandum of Agreement)
- Decorative lighting and painted mast arms require a MMOA (and also typically an LFA—locally funded agreement)

SECTION NO.: 94070000
FM No.(s): 446169-1-52-01
COUNTY: St. Lucie
S.R. No.: 68

FM No: 446173-1-52-01
FEID No: F596000358002

FLORIDA DEPARTMENT OF TRANSPORTATION - DISTRICT FOUR (4)
LIGHTING MAINTENANCE MEMORANDUM OF AGREEMENT

THIS AGREEMENT made and entered into this date 03/29/2023 | 5:46 PM EDT, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, a component agency of the State of Florida, hereinafter called the DEPARTMENT, and City of Fort Pierce, a municipal corporation existing under the Laws of Florida, hereinafter called the AGENCY.

WITNESSETH:

WHEREAS, the DEPARTMENT has jurisdiction over State Road (S.R.) 68 beginning from Mile Post (M.P.) 19.754 to M.P. 21.669 and

WHEREAS, the DEPARTMENT seeks to install and have maintained by the AGENCY certain highway IMPROVEMENTS; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the DEPARTMENT, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain SR 68 beginning from M.P. 19.754 to M.P. 21.669 (within the limits of the AGENCY); and

WHEREAS, it is the intent of the AGENCY and the DEPARTMENT that the AGENCY shall maintain the specific elements constructed under Project Number 446169-1-52-01 to include decorative lighting; hereinafter called IMPROVEMENTS installed along SR 68 M.P. 19.754 to M.P. 21.669; and

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
LOCALLY FUNDED AGREEMENT

This Locally Funded Agreement ("Agreement"), entered into this day June 22, 2023 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT, and the City of Lake Worth Beach, located at 7 North Dixie Highway, Lake Worth, Florida, 33460, hereinafter called the PARTICIPANT.

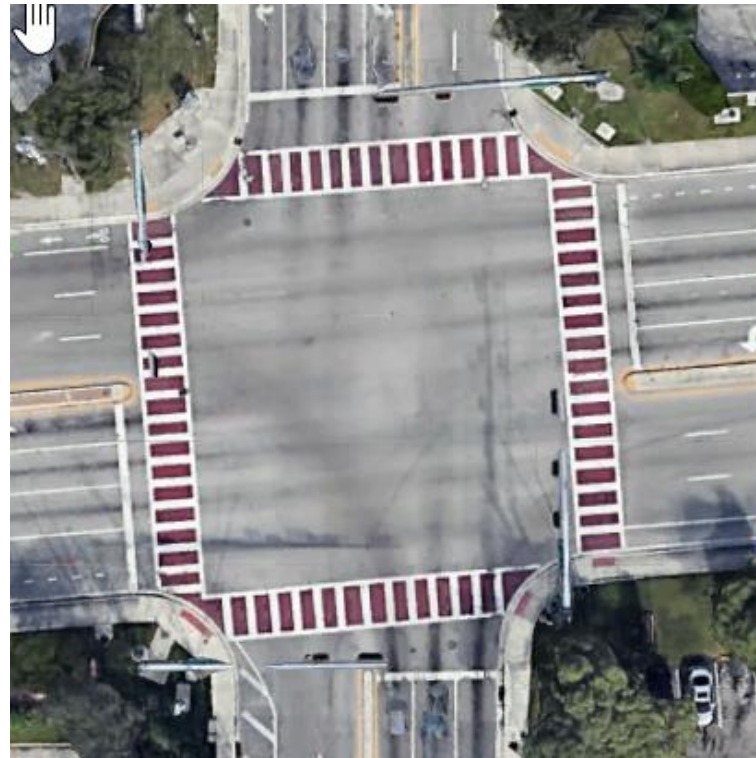
WITNESSETH

WHEREAS, the DEPARTMENT and the PARTICIPANT are desirous of having the DEPARTMENT make certain improvements in connection with the DEPARTMENT'S construction work along SR-5/US-1 FROM 10th Ave South TO 6th Ave North, in the City of Lake Worth Beach, Florida. (Financial Management (FM) Number 446173-1-52-01, Funded in Fiscal Year 2024); and

WHEREAS, the PARTICIPANT has requested that the DEPARTMENT perform the following additional work (FM Number 446173-1-52-01). The funds will be utilized for decorative lighting as set forth in Exhibit A, which is attached hereto and made a part hereof and hereinafter referred to as the Project; and

Lessons Learned – MMOAs

- MMOAs
 - Not just for decorative lighting and painting of mast arms
 - Also needed landscape, hardscape, and irrigation
- Let's talk Patterned Pavement
 - Needs local contribution
 - Needs MMOA
 - Requires biennial skid testing
- **Early coordination is critical**



Lessons Learned – TIP/STIP

- TIP / STIP Amendments
 - Costs increase more than \$2M AND 20% **AMENDMENT NEEDED**
 - Costs decreases **No Amendment Needed**
 - *Length increases by 1/2 mile AND 20% **AMENDMENT NEEDED**
 - *Length decreases by 1/2 mile AND 20% **AMENDMENT NEEDED**
- TIP amendments can take up to four months depending on MPOs schedules/calendars

*Bonus: EOG may also be needed

Lessons Learned – Maintenance Maps

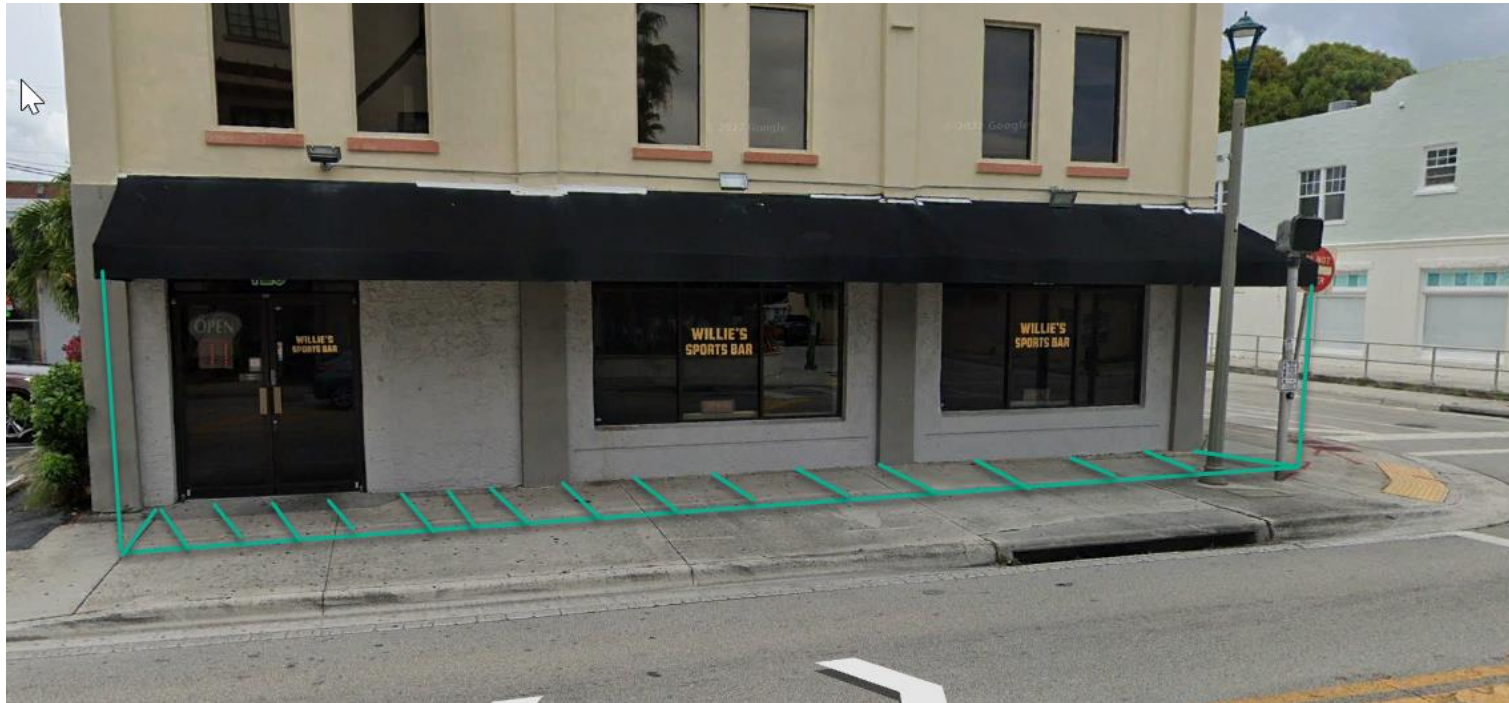
- Maintenance Maps
- Tool to assist the Department in obtaining a Project's R/W Certification
- Used when roadway encroachments outside the right of way have been maintained by the Department for the statutory length of time
- Only needed if you will be doing construction on above referenced encroachments
 - Only needed if the encroachments are over 0.35' threshold

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE MAP
SPECIFIC PURPOSE SURVEY

Lessons Learned – Maintenance Maps

- Don't forget to look up!
 - We couldn't do a maintenance map for the sidewalk to the building we are maintaining below because it would've impacted the awning of the private property. Fortunately, we didn't end up needing the maintenance map



Lessons Learned – Funds vs Budget

Funds vs Budget

- Funds and budget are NOT the same thing
- Budget is permission to spend funds (any flavor of funds—including local funds)
- FDOT must have budget to let every job (and hire every consultant, etc...)
- Budget is set approximately 2 years in advance of when it's used

Local funds (LF)

- Budget can't be magically created because of late scope additions
 - Such as patterned pavement, installing a new utility line, etc.
- You need to account for your LF needs at least 2 fiscal years in advance with your LREs/PERs in order to capture budget

Lessons Learned – UWS

- UWS (Utility Work Schedule)
- UAO fills in the “Consecutive Calendar Days”
- But do they really mean calendar days or work days?
- The CTE divides the value given in the UWS by 1.4
 - Did the UAO just lose days?

Consecutive Calendar Days	
Prior to Const.	During Const.

Construction Duration:
89 W.D. x 1.40 = 125 C.D.
W.D. = Work Days
C.D. = Calendar Days

- Ensure UAOs are aware time needs to be given in calendar days, not work days.

Lessons Learned – Mowing & Litter Removal

- For off-system projects let by FDOT
- Mowing and Litter removal is NOT FHWA eligible, nor can the state pay for it

		*0107- 1-	LITTER REMOVAL
		*0107- 2-	MOWING
P		0108- 1-	MONITOR EXISTING STRUCTURES- (44616915201)
P		0108- 2-	MONITOR EXISTING STRUCTURES-
		0110- 1- 1	CLEARING & GRUBBING (446169152

* - non-participating

Lessons Learned – Mowing & Litter Removal

- Solutions

- Locals can enter into a LFA (Locally funded agreement) to give \$ to the Department to include mowing and litter removal in the construction plans

- Locals can commit to doing the mowing and litter removal during construction

- Commitment must be legally binding, such as within an HMMOA
- A MSP must also be processed to do this

- Not a solution

- To not do the mowing and litter removal

DISTRICT FOUR
HIGHWAY MAINTENANCE MEMORANDUM OF AGREEMENT

THIS AGREEMENT, entered into this ____ day of _____, 20__, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, a component agency of the State of Florida, hereinafter called the DEPARTMENT and XXXXXX COUNTY/CITY, a political subdivision of the State of Florida, or a municipal corporation existing under the Laws of Florida, hereinafter called the AGENCY collectively referred to as Parties.

WITNESSETH:

WHEREAS, the AGENCY has jurisdiction over ROADWAY NAME, as part of the County/City/Town roadway system from XXXX to XXXX; and

4. The AGENCY shall continue to maintain the existing roadway and any property owned by AGENCY until the DEPARTMENT begins construction of the Project. The AGENCY shall continue to be responsible for mowing and litter removal during the duration of the Project.

Lessons Learned – Off-system Design criteria

- For off-system projects let by FDOT
- If you have an off-system project and you meet at least one of the three criteria noted, **you need to use FDM**
- **Talk to your DDE** about options to use **Florida Green Book** if desired
 - May/may not be possible

On or Off the State Highway System (SHS)?

- Intended for use on all streets and highways OFF the SHS
- Unless using federal funds and project is:
 - On the National Highway System (NHS),
 - Has a construction value \geq \$10 million, or
 - Includes a vehicular bridge, pedestrian bridge over a roadway, certain box culverts.
- Then use FDOT's Design Manual (FDM) and Standard Plans



Fort George/Talbot Island Bridge, FL

- Check Local Programs Manual for additional info

Lessons Learned – FAA Coordination

FAA Coordination for Design

Follow the **5** steps.

1

Are you within 10 Nautical miles of an airport?

See Multimodal Scoping Checklist (MMSC).

2

Points to Remember:

Per CFR Title 14 Part 77.9.:

You DO NOT need to file notice for construction or alteration of any object that will be shielded by existing structures of a permanent and substantial nature or by natural terrain or topographic features of equal or greater height and will be located in the congested area of a city, town, or settlement where the shielded structure will not adversely affect safety in air navigation.

3

If step 2 doesn't apply, go to

Notice Criteria Tool Website

<https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showNoNoticeRequiredToolForm>

To determine if you need to file.

* File at least **45** days prior to the beginning of construction. Design PM should begin filing notice at **CONSTRUCTABILITY**.

4

FAA determination received?

- Implement FAA recommendations in the plans.
- Provide copies of the 7460-1 (Notice of Proposed Construction or Alteration) and the Determination to the District Aviation Coordinator.

5

Design PM documents FAA coordination and recommendations as appropriate.

**New schedule activity will be added to schedule templates.

District Four Design



Hey! Did You Hear?

Lessons Learned – License Agts vs TCEs

- License Agreements
 - These are used solely for the benefit of the property owner
 - Any work within the license agreement cannot be required for the construction/operation/maintenance of the project/facility
 - If the license agreement is revoked, the project can still be built
- Temporary Easement/Permanent Easement/Fee/Donation
 - All four of these are acquisition, yes--even donations
 - If you cannot build your project/operate/maintain it in the finished condition, you may need one of these types of acquisition
 - Acquisition takes time - generally speaking, an acquisition phase will add three (3) years to your schedule

Lessons Learned – Shop Drawings

- Engineer vs Engineer of Record

Engineer.

The Director, Office of Construction, acting directly or through duly authorized representatives; such representatives acting within the scope of the duties and authority assigned to them.

Note: In order to avoid cumbersome and confusing repetition of expressions in these Specifications, it is provided that whenever anything is, or is to be done, if, as, or, when, or where “acceptable, accepted, approval, approved, authorized, condemned, considered necessary, contemplated, deemed necessary, designated, determined, directed, disapproved, established,

given, indicated, insufficient, ordered, permitted, rejected, required, reserved, satisfactory, specified, sufficient, suitable, suspended, unacceptable, or unsatisfactory,” it shall be understood as if the expression were followed by the words “by the Engineer,” “to the Engineer,” or “of the Engineer.”

Engineer of Record.

The Professional Engineer or Engineering Firm registered in the State of Florida that develops the criteria and concept for the project, performs the analysis, and is responsible for the preparation of the Plans and Specifications. The Engineer of Record may be Departmental in-house staff or a consultant retained by the Department.

The Contractor shall not employ the Engineer of Record as the Contractor’s Engineer of Record or as a Specialty Engineer.

Lessons Learned – Shop Drawings

- APL

5-1.4.5 Submittal Paths:

5-1.4.5.1 General: Shop drawings are not required for items on the Approved Products List used as intended in the relevant Standard Plans and Standard Specifications. For non-prequalified items, determine the submittal path to be followed based upon the identity of the Engineer of Record as shown adjacent to the title block on the structural plan sheets, and on the key sheets of roadway plans, signing, and pavement marking plans, and/or lighting plans. At the preconstruction conference, the Department will notify the Contractor in writing of any changes in the submittal path and whether the Department's or the Consultant's review stamp will signify an officially reviewed shop drawing.

1. When the Florida Department of Transportation is the Engineer of Record, submit shop drawings to the Resident Engineer and to the appropriate Department

Lessons Learned – Shop Drawings

- Standard Plans

GENERAL NOTES:

- Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not detailed in the Plans.
- Prior to Fabrication: Verify the installed foundation elevation will result in the required signal elevation and adjust the Pole height as needed.
- Details for Signal and Sign Locations, Signal Head attachment, Sign attachment, Pedestrian Head attachment, and Foundation Conduit are not shown for simplicity.
- Materials:
 - Poles, Mast Arms and Backing Rings:
 - Less than 1/2": ASTM A1011 Grade 50, 55, 60 or 65
 - Greater than or equal to 1/2": ASTM A572 Grade 50, 55, 60 or 65
 - ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield)
 - Steel Plates: ASTM A36
 - Weld Metal: E70XX
 - Bolts, Nuts and Washers:
 - High Strength Hex Head Bolts: ASTM F3125, Grade A325, Type 1
 - Nuts: ASTM A563 DH Heavy-Hex
 - Washers: ASTM F436
 - Anchor Bolts, Nuts and Washers:
 - Anchor Bolts: ASTM A307
 - Nuts: ASTM A563
 - Plate Washers: ASTM A307
 - Threaded Bars/Studs: ASTM A307
 - Handhole Frame: ASTM A307
 - Handhole Cover: ASTM A307
 - Pole Caps and Nut Covers: galvanized carbon steel
 - Stainless Steel Screws: ASTM A307
 - Concrete: Class IV (10,000 psi)
 - Reinforcing Steel: See Sheet 2
- Fabrication:
 - Welding:
 - Specification 460-4
 - ASHTO LRFD Specifications for Highway Signs, Luminaires, and Traffic Signals
 - Poles and Mast Arms:
 - Round or 12-sided
 - Taper pole diameter
 - Upright poles must be vertical, circumferential welds permitted.
 - Arms may be either one or two sections. See Sheet 4 for telescopic splice detail
 - Fabricate longitudinal seam welds with 60 percent minimum penetration or fusion welds except:
 - Use a complete joint penetration weld within 6 inches of the circumferential tube-to-plate connection.
 - Use complete joint penetration welds on the female end section of telescopic (i.e., slip type) field splices for a minimum length of one and one-half times the inside diameter of the female section plus 6 inches.
 - Locate longitudinal seams weld along the:
 - Lower quadrant of the arms.
 - Same side of the pole as the arm connections
 - Face handhole perpendicular from arm on single arm poles, perpendicular from the first arm of double arm poles facing away from traffic or see special instructions on the Mast Arm Tabulation Sheet.
 - Provide a 1" or 2" hook at the top of the pole for signal wiring support (See Sheet 6)
 - First and Second arm camber angle = 2°
 - Bolt hole diameters as follows:
 - Bolts (except Anchor bolts): Bolt diameter plus 1/16" prior to galvanizing.
 - Anchor Bolts: Bolt diameter plus 1/2" (Max.).
- Coatings:
 - All Nuts, Bolts, Washers and Threaded Bars/Studs: ASTM F2329
 - All other steel items including plate washers ASTM A123
- Construction:
 - Foundation: Specification 455 Drilled Shaft, except that payment is included in the cost of the Mast Arm.
 - Install Pole vertically.
 - Place structural grout pad with drain between top of foundation and bottom of baseplate in accordance with Specification 649-7.
 - Attach Sign Panels and Signals centered on the elevation of the Mast Arm.
 - Wire Access holes are 1 1/2" or less in diameter.

GENERAL NOTES:

1. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not detailed in the Plans.

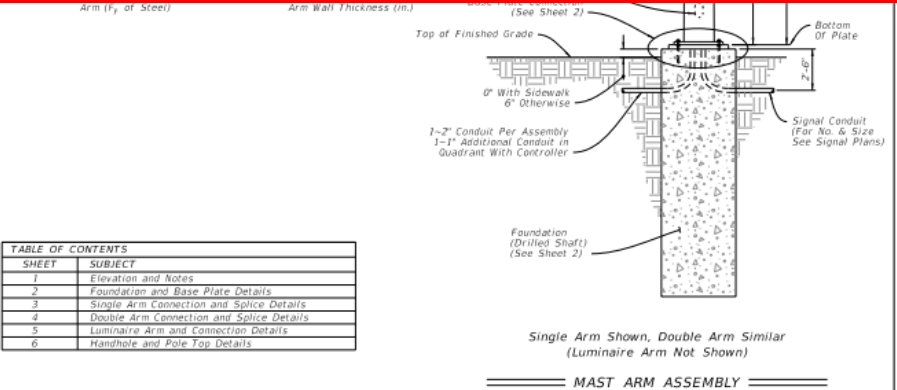
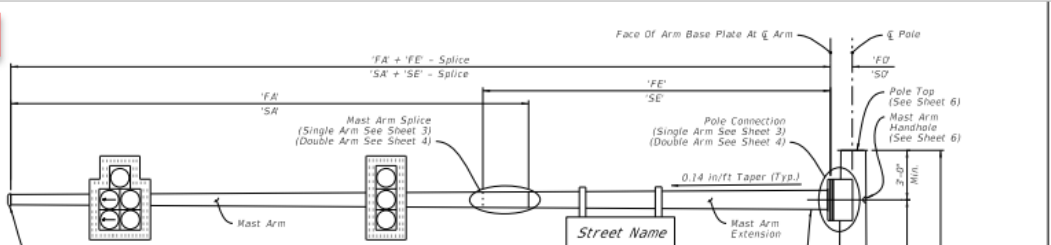


TABLE OF CONTENTS	
SHEET	SUBJECT
1	Elevation and Notes
2	Foundation and Base Plate Details
3	Single Arm Connection and Splice Details
4	Double Arm Connection and Splice Details
5	Luminaire Arm and Connection Details
6	Handhole and Pole Top Details

ELEVATION AND NOTES

LAST REVISION 11/01/23	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	MAST ARM ASSEMBLIES	INDEX 649-031	SHEET 1 of 6
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Lessons Learned – Shop Drawings

- Processing of Shop Drawings

5-1.4.6 Processing of Shop Drawings:

5-1.4.6.1 Contractor Responsibility for Accuracy and Coordination of

Shop Drawings: Coordinate, schedule, and control all submittals, with a regard for the required priority, including those of the various subcontractors, suppliers, and engineers, to provide for an orderly and balanced distribution of the work.

Schedule the submission of shop drawings to allow for a 45 calendar day review period for all submittals associated with a category 2 bridge; tolling components identified in the current FDOT General Tolling Requirements (GTR) Part 3; and the tolling-related signing, DMS and ITS infrastructure. Schedule the submission of shop drawings to allow for a 25 calendar day review period for all other items. The review period commences upon the Engineer's receipt of the valid submittal or valid re-submittal and terminates upon the transmittal of the submittal back to the Contractor. A valid submittal includes all the minimum requirements outlined in 5-1.4.4.

Submit shop drawings to facilitate expeditious review. The Contractor is discouraged from transmitting voluminous submittals of shop drawings at one time. For submittals transmitted in this manner, allow for the additional review time that may result.

Only shop drawings distributed with the approval stamps are valid and all work that the Contractor performs in advance of approval will be at the Contractor's risk. Work affecting Public Safety may not be performed prior to approval of appropriate submittals

Lessons Learned – Shop Drawings

- Processing of Shop Drawings

5-1.4.3 Schedule of Submittals: Prepare and submit a schedule of submittals that identifies the work for which shop drawings apply. For each planned submittal, define the type, and approximate number of drawings or other documents that are included and the planned submittal date, considering the processing requirements herein. Submit the schedule of submittals to the Department's Shop Drawing Review Office and the Engineer of Record within 60 days of the start of the Contract, and prior to the submission of any shop drawings.

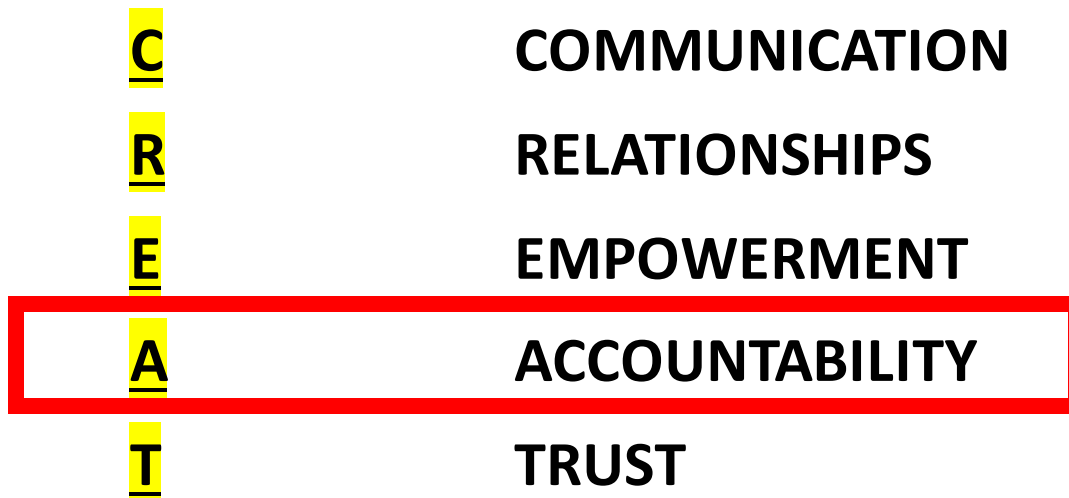
Coordinate subsequent submittals with construction schedules to allow sufficient time for review, resubmittal and approval prior to beginning fabrication, as necessary.

Lessons Learned – Shop Drawings

- Solutions
 - Design and Construction/CEI teams understanding roles/responsibilities of each team
 - Hand-off meeting between Design and CEI teams at/around letting and prior to Construction NTP being issued

Lessons Learned – Why?

- Why are Lessons Learned important?
- Remember **CREATE**



wE** are OneFDOT!**



FDOT Team,

Since I stepped into the role of Secretary, it has been a personal priority of mine to ensure that every employee at this agency feels valued and heard, and that the successes achieved by our department are attributed to the hard work and dedication of each member of our team. The responsibilities that our department is tasked with upholding are too important for us to not build a positive, encouraging, and collaborative environment for our team, which is why I have been participating in conversations centered on cultural changes we can collectively make at FDOT.

Prior to Hurricane Ian, I was joined by leadership staff from across the state to discuss the type of culture we would like to build at our agency and the means to achieve these changes. During this three-day workshop, the team defined the most important factors that can contribute to this culture shift- Communication, Relationships, Trust, Empowerment, and Accountability. Below are some ways to put these values into action within the workplace:

- **Communication:** We have to tell our story – the FDOT story, our personal stories, and our communities' stories. This is the only way people will know all that we accomplish.
- **Relationships:** We must value and invest in our relationships inside and outside of the Department. We should foster an employee experience that creates a solid foundation and promotes growth and a community experience that demonstrates how much we care about the work we do. The way we make people feel matters.
- **Trust:** Consistent communications + intentional relationships – trust. Trust employees to make decisions and trust management to support you and the team. Most importantly, trust is built over time.
- **Empowerment:** Build an environment where employees can make mistakes and learn from them. By building this knowledge base and confidence, our teams will become stronger and more empowered.
- **Accountability:** We are each responsible for developing our desired culture. No matter how commonly-shared our vision is, unless we take the time to intentionally implement our ideals, we will not change. It is up to us.

I believe that each person intentionally and consistently incorporating these seemingly small actions one day at a time, step by step, will help grow and cultivate an environment that is uplifting and supportive for all of our valued team members across the state. I'm proud of this team and the vision we will achieve as OneFDOT.

Sincerely,

Jared W. Perdue, P.E.
Secretary

Lessons Learned – Mowing & Litter Removal

What Questions do you have?

Safety Message



DNT TXT + DRV



Contact Us



Leslie Wetherell, P.E.

Project Manager

FDOT

Design

District 4

3400 W Commercial Blvd

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