

# **Florida Utilities Coordinating Committee**

Coordination through Cooperation

See the latest FDOT / Utility Issues on our web site: http://www.fucc.org

### (Meeting Location)

**Chairman** Vinnie LaVallette Vice Chairman Bryan Lantz Secretary Kris Hayes Historian Chris McLaughlin

## FUCC MORNING SESSION

Wednesday, November 6, 2013

Industry/Agency Meetings

#### 8:00-10:00 am

- CenturyLink Meeting Chaired by TBD
- Utility Coordination Certification Chaired by Dennis La Belle

#### 10:00 -12:00 am

### Sound Wall

Chaired by Chad Swails

Meeting participants completed final edits to Sound wall Data Collection sheet. Sound wall Data Collection sheet to be submitted to general membership for approval at general business meeting.

#### • Permitting Meeting

Chaired by Jan Ash/Adam Padgett

## FUCC AFTERNOON SESSION

Wednesday, November 6, 2013

#### 1:00-1:45 pm

Dennis La Belle presented UCC certifications to first five recipients who have fulfilled all the experience and education requirements. UCC certifications were given to the following individuals:

- o Blake Gross
- o Dawn Knight
- o Jim Moyer
- o Jodi Rano
- Melonie Schwartz.

#### FDOT Forum

Chaired by Tom Bane

<u>7 Districts present:</u> Shirley McCrary, District 1 John McCarthy, District 2 Tony Soto, District 6 James Kervin, Turnpike Tim Brock, District 4 Katasha Cornwell, District 7 Jonathan Harris, District 3

Status report on roll out of online permitting. FDOT hopeful for a "go-live" date in the next few months.

Status report of UAM re-writes. Proposed revisions are In review at FDOT legal department. New UAM not likely to be released until late 2014 or possibly 2015.

Floor to FDOT panel – "*by district please identify single largest utility challenge*" Design-Build and Utility Coordination were the common responses cited by the District Utilities Administrators (DUA's).

Discussion on FDOT requirement involving Deep shaft removal of mast arm/signalization at intersections and resulting utility conflicts.

Tom Bane requested that FUCC submit our "Top Ten Utility CPR Issues". Dave Kuhlman indicated that FUCC will vote to accept the current list and a survey to follow this meeting to assign order of importance.

A short discussion involving Buy America mandates and difficulties with compliance ensued.

1:45-4:30 pm

## FUCC EDUCATIONAL WORKSHOP PRESENTATION

### "Design Build – Where we are today"

Presented by: Vinnie LaVallette

FDOT is continuing to update Design/Build boilerplate. Concepts, with regards to the DB team reimbursing the utilities, are in a state of flux with applications varying throughout the State.

Project highlighted – I-4 Ultimate P3 project. CenturyLink took the initiative to compile a detailed report of planned relocations and associated costs. Pam Kirk with CenturyLink gave additional details on the rationale behind their report and hiring of an experienced consultant to help them with the report preparation.

4:00- 5:00 pm

# "Buy America update" Presented by: David Kuhlman

During the FUCC conference, a notice was received by Vinnie LaVallette from FHWA regarding an upcoming webinar regarding the Buy America policy. Below is the actual except from that email.

"FHWA will be hosting a Utility Industry Outreach webinar focused on Buy America requirements related to Utilities. The purpose of this webinar is to ensure Utility Owners understand previous policy guidance on the subject of Buy America and Utilities. Additionally, this webinar will offer an opportunity for the Utility Industry to ask questions related to Buy America and Utilities. Please note that FHWA Buy America/Utilities policy guidance has not changed.

This webinar is scheduled for Wednesday, December 11th, 2013 from 2:00 to 4:00pm Eastern Standard Time. Registration is required for this webinar. For joint sessions, only one person in the conference room must be

#### registered.

There is no fee for attending this webinar.

We are requesting that the Division Office and State DOT work together to invite Utility Industry personnel as appropriate to attend this webinar and conduct a joint session to attend the webinar. Hosting joint sessions with Utility Industry, State DOT and FHWA may facilitate continued collaboration and discussion among partner agencies regarding Buy America/Utility related issues, by providing a discussion session at the conclusion of the scheduled webinar. Where joint sessions are not feasible, ample webinar connections should be available to facilitate connection by individual participants.

#### How to Register for the Event

Please use the following link to register for this webinar: https://www.nhi.fhwa.dot.gov/resources/webconference/web conf learner reg.aspx?webconfid=26956

Simply fill out the form with your personal information and then click on the "Register Now" icon. A web link and conference call number to participate in the webinar session will be emailed upon successful registration. Make an appointment on your calendar for the day of the webinar with the connection information for easy access to the webinar.

Please contact Ken Leuderalbert at, ken.leuderalbert@dot.gov should you have any questions regarding the

upcoming webinar."

### FUCC MORNING SESSION

Thursday, November 7, 2013

8:00-9:30 am

### **FUCC SUBCOMMITTEE MEETINGS**

## Banquet Planning Committee Chaired by India Pana

Chaired by Jodie Rano

UAM Standard Review

Chaired by Bryan Lantz

A total of 39 were in attendance. Tom Bane provided the current status of the internal FDOT review of proposed edits to 2010 UAM. Tom provided a status report of FDOT One-Stop online permitting. The 22 conditions on actual r/w use permit not identified in 2010 UAM but are being added to the proposed 2013/2014? UAM. The topic number is being removed from bottom cover of 2010 UAM-now becoming "rule" governed by State of Florida and no longer "procedure". FDOT plans to omit the date of issuance for UAM. Going forward UAM will be identified by a version number. Also, in the future requests for variance "exceptions" will be sent to Tom Bane for his review and/or approval.

## Joint Use Committee Chaired by Varlam Molina

8:00- 8:45 am

Nominations/Awards Committee
 Chaired by Joe Sanchez

9:30-11:30 am

## FUCC INTEREST GROUP MEETINGS

- Power Interest Group Chaired by Varlam Molina/Jordan Cook
- Underground Interest Group
   Chaired by Angie Preston
- Telecommunication Interest Group
   Chaired by Gary Monday/Bill Case

### **Break for Lunch**

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### FUCC AFTERNOON SESSION

Thursday, November 7, 2013

12:45-1:00 pm

#### FUCC Announcements - Vinnie La Vallette

Chairman Vinnie LaVallette provided the FUCC announcements. On behalf of the FUCC, Vinnie welcomed the representatives from Sunshine 811 who sponsored the afternoon locator and safe digging forum. Cheryl Ritter from Sunshine 811 gave her opening remarks and then turned the General Session over to Mark Sweet. Mark presented the DIRT Report which included a power point presentation.

1:00-4:30 pm

### Sunshine 811 – Safety Forum Locator & Safe Digging Roundtables

1:00 pm

### General 811 Session

- CGA 2012 DIRT Report Mark Sweet, Sunshine 811
- Proposed Amendments to CH. 556, F.S. Mark Sweet
- Partnerships & Promotions Cheryl Ritter, Sunshine 811
- Safety Education Brad Martin, Sunshine 811

2:00 pm

### Locator Roundtable – Moderator: Sergio Clavijo, Sunshine 811

- NULCA Marking Standards Greg Jeffries, Craig A. Smith & Associates
- Panel Discussion

Greg Elmore – City of Leesburg Joe Heatherly – Florida Power & Light Joe Grosklos – USIC Locating Services, Inc.

Maria Mancuso – Find It First Locating Services, Inc. James Villarreal – Gulfstream Natural Gas System Sandra Panos – TECO Peoples Gas Rick Barrett – Florida Gas Transmission

3:00 pm

### Break

3:15 pm

### Safe Digging Roundtable – Moderator: Brian Dean, Sunshine 811

- Open discussion on the five-step damage prevention process
- Utility Coordination
- In-field issues
- Panel Discussion
  - Jim Frey, KAM Services, Inc. Smithy Murphy, Team Fischel Wayne Jensen, Tampa Bay Excavation Task Force (D3P) HGB & Associates, Stahl & Associates Insurance Lorenzo Jones, TECO Bryan Lantz, Verizon

4:45 pm

Wrap up.

5:00- 6:15 pm

FUCC STEERING COMMITTEE MEETING – Bryan Lantz

## FUCC BUSINESS MEETING

Friday, November 8, 2013

Chairman Vinnie LaVallette called the FUCC Business Meeting to order shortly after 8:00 am. The chairman introduced herself and the other FUCC officers. Next, Vinnie welcomed everyone and gave her opening remarks. The chairman then proceeded with the invocation (David Kuhlman) and tribute to the flag.

### SECRETARY'S REPORT – Kris Hayes

The chairman then requested the Secretary to read the previous meeting minutes. There was a motion by Gary Monday which was seconded by Ray Mercer that the reading of the complete minutes be waived. Motion Passed.

**Historian Report** – Chris McLaughlin (not available) Action item: An effort will be made to retrieve the archived records from past FUCC Historian Mr. Tom Duggar.

**Treasurers Report** – Vince Montgomery

## Sunshine 811 Report



**REPORT TO THE FUCC-** Cheryl Ritter

### FLORIDA DEPARTMENT OF TRANSPORTATION REPORTS

**District One** – DUA Shirley McCrary reported status on various active and upcoming road projects.

**District Two** – DUA John McCarthy general district specific comments, UCC meeting dates, location and times reported, reported status on various active and upcoming road projects.

**District Three** - No DUA present-Sunshine 811 representative and regular District meeting attendee spoke on several general points.

**District Four** – DUA Tim Brock provided generic discussions of active and/or proposed road projects, thanked UAO's for their cooperation which expedited completion of projects.

**District Five** – No DUA present.

**District Six** – No DUA present.

**District Seven** – DUA-Katasha Cornwell reported status on various active and upcoming road projects.

**Turnpike District** – TUA-James Kervin reported status on various active and upcoming road projects, designbuild, etc..

**FDOT Central Office**-Tom Bane indicated that his report was delivered at Wednesday's FDOT forum. Tom offered to stand for any questions.

### FUCC INTEREST GROUP Committee Reports

### **Power Interest Group**

Chairman – Varlam Molina/Jordon Cook

### Underground Interest Group

Chairman – Angie Preston

### **Telecommunications Interest Group**

Chairman – Gary Monday/Bill Case

Following the reports, Vinnie reminded the chairs of the respective committees to forward a copy of their meeting minutes to the Secretary Kris Hayes.

Dave Kuhlman provided update on top ten FDOT's CPR utility issues survey monkey survey to follow in the week or so. FUCC is seeking to prioritize the remaining 9 utility issues. Survey results will be compiled and sent to steering committee at next meeting. Tom Bane provided clarification regarding the submission. Tom requested that our submission be free of FDOT input.

#### Break

## FUCC SUBCOMMITTEE REPORTS

**Steering Committee** – Kris Hayes reporting for Bryan Lantz

- Domain name expiration- John Murphy and Cheryll Ritter reported that it has been renewed.
- Constant Contact renewal- Vince Montgomery reported that he would handle this action item.
- Treasurers audit results- Jan Ash shared her CPA's (Sandy Simmons) suggestions for correcting our accounting deficiencies.
- Purchase of QuickBooks- motion passed to purchase the inline cloud based version of this program. (1<sup>st</sup> Vince Montgomery, 2<sup>nd</sup> Sandra Panos)
- There was a discussion about hiring a bookkeeper to setup QuickBooks and review our books on a quarterly basis. Brian Lantz suggested that we secure more than one bid for this service. A motion was made to prepare scope of work to secure accounting bids to provide support to Treasurer.

**UAM/Standards Review** – Kris Hayes reporting for Bryan Lantz. Please reference meeting notes on page 3.

Joint Use-Dennis La Belle provided brief discussion of meeting highlights.

**Permitting**-Jan Ash sitting in for co-chair Adam Padgett. There were 25 in attendance. Jan provided a brief discussion of meeting highlights.

**Design/Build**-Vinnie LaVallette no formal meeting held.

Sound Walls-Dave Kuhlman reported for Chad Swails and provided a status report of the Sound

Wall Data Sheet. On an unrelated topic Dave reiterated the importance that all FUCC members participate in the survey to identify and prioritize the top ten utility issues.

**By-Laws Review**-Chris McLaughlin spoke on topic of generating write-ups for the executive FUCC positions. Basically, members of the Steering Committee intend to prepare job descriptions which outline the expected duties, tasks and responsibilities for the Chairman, Vice-Chairman, Secretary, Treasurer and Historian.

**UCC**-Dennis LaBelle spoke on the topic of UCC certification certificates. A list to be generated which confirms course dates, status, etc.. The general membership was encouraged to review report to ensure accuracy of information. Also, all UCC certifications will be numbered and those recipients will be posted on FUCC website.

E-Business/Web Page-No one present to report.

**Membership**- No one present to report.

**Conference Planning**-Dennis LaBelle reported on increases in costs related to future meeting sites. Hotels are now wanting to charge a setup fee for the meeting. The only way to keep the cost down is to standardize the setup to conference style. If someone wants a different setup then they will have to pay the setup fee. Ocala 2014 is the last meeting planned at this location. The FUCC recently renewed a two year contract for the Marco Island and Mission Inn locations.

**Program Planning**- Dennis LaBelle reported on the proposed program for the Winter meeting. He also asked if the committee want to have joint sessions with other committee. Discussion on problems with conference registrations, requested preliminary Agendas from interest groups and subcommittees in advance of upcoming meetings so he can post them. Dennis confirmed with Tom Bane that DUA's and FDOT central office representation is planned at the Fall and Spring FUCC meetings. Tom said he was trying to get the Maintenance people to attend the other meetings (Winter and Fall).

Treasurer's Report-Vince Montgomery.

**Chairman's closing message**- In recognition of Veteran's Day, Vinnie LaVallette made a special point to acknowledge FUCC members with prior military service.

### **OLD BUSINESS**

None

### **NEW BUSINESS:**

Dave Kuhlman asked that he be allowed to proceed with survey (Survey Monkey) to prioritize remaining 9 items to complete list of top 10 utilities issues. As requested, the results of the survey will be presented to Tom Bane at FDOT. The motion was made by Vince Montgomery and a second was presented by Gary Monday. Motion passed unanimously.

In addition, Dave Kuhlman, Chad Swails, Bryan Lantz, and Bob Lowen requested approval to represent the entire FUCC membership as they solicit FHWA to approve a list of utility materials to be Buy America compliant on affected Federal Aid projects.

### **Adjournment**

Motion was presented by Vinnie LaVallette which was seconded by Vince Montgomery.



November 2013 REPORT to FUCC

#### Legislative Update

On October 17, 2013, Senator Garrett Richter filed Senate bill SB 288. The House companion bill HB 213 was filed on October 24 by Representative David Santiago. The bills are identical.

The primary purpose is to extend the "high priority subsurface installation" concept to all utilities with underground facilities, not just gas utilities.

The bill also:

- · Allows pre-marking through electronic markings or other industry-accepted methods
- Creates a noncriminal infraction for the excavator who fails to notify a member operator of the start date when excavating in the vicinity of a declared High-Priority subsurface installation
- Removes certain notification exemptions, including FDOT
- Effective date, July 1, 2014
- To view the proposed legislation, click on the 2014 Proposed Legislation link under Hot Topics on our website at <u>www.sunshin811.com</u>.

#### Excavator Survey

MGH has conducted a 10-minute online survey for Sunshine 811 to understand excavators' awareness and perception of Sunshine 811, its services and marketing efforts. A prize drawing for two \$100 Visa gift cards was offered as an incentive to take the survey. Specifically, the survey will gauge:

- Sunshine 811 brand awareness aided and unaided
- > Awareness of and satisfaction with Sunshine 811 services and training opportunities
- Usage of Sunshine 811, including methods for submitting locate requests
- > Awareness of state damage prevention law elements, including positive response
- Awareness of promotional and marketing efforts
- > Demographic and geographic profile of respondents

The results will be presented during the November 15th Board meeting in Debary.

#### Partnership Programs

Our first-time caller's survey continues to list utility companies as the number one way Floridians are informed about 811. Friends and neighbors/word-of-mouth were close behind. As a result, we are aggressively pursuing partnerships with our top 10 ticket volume members to help expand the 811 message and encourage damage reporting to the Damage Information Reporting Tool. If you'd like to participate, please contact Cheryl Ritter at <u>Cheryl.ritter@sunshine811.com</u>.

#### Thank you to our Partners!

Thanks to FUCC for partnering with Sunshine 811 to host a Safety Forum at Mission Inn on Thursday, November 7<sup>th</sup>. The interactive forum will include Locator and Safe Digging Roundtables to give stakeholders an opportunity to "Be Part of the Solution." Special thanks to Dennis and Margie LaBelle for offering their meeting planning expertise to ensure a successful event.

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As part of our annual sponsorship agreement with the Florida Energy Pipeline Association (FEPA), we received a \$1,000 contribution to help defray the cost of this event. Their continue partnership and financial support for our safety forums and Fire Station Campaign is very much appreciated.

#### 811 Safety Forum Door Prize Donations - Thank You!

- Find It First Locating Service Inc.
- Florida Gas Transmission
- Gulfstream Natural Gas System
- Lake Apopka Natural Gas District
- **TECO Peoples Gas** •

#### **Stepping up Positive Response Education**

Educating contractors on the importance of checking member responses BEFORE going to the job site and comparing the marks at the site with positive response codes have been front and center in our education efforts. Sunshine 811's safety and damage prevention presentations, 2013 Excavation Safety Guide and online program, Safety Matters, features detailed information on positive response.

#### 5 Reasons to Take Safety Matters

Safety Matters is Sunshine 811's online education program. It explains and illustrates an excavator's responsibilities under Florida's safe digging law.

- 1. It's free!
- 2. Covers the one-call process and law in one hour.
- 3. Offers a crash course on low-impact marking.
- 4. Explains why it's vital to verify positive response.
- 5. One Hour CEU approved by the Construction Industry Licensing Board

#### **Statistics**

- Incoming ticket volume for October 2013 was up 9% from October of last year, up 10% for the fiscal year to date and up 13% from last month.
- в Outgoing (billable) transmission volume for October 2013 was up 9% from October of last year, up 9% for the fiscal year to date and up 13% from last month.
- Positive response system responses for code 3F "Unmarked Marking delay requested by locate technician and agreed to by excavator" totaled 62,851 (2% of total tickets) for the fiscal year to date.
- Positive response system late notice transmissions for October 2013 total 16,168 (2% late) and 79,549 (3%) for the fiscal year to date.
- Average answer speed for October 2013 was approximately 38 seconds for the month and 42 seconds for the fiscal year to date.
- Incoming ticket volume for October 2013 was approximately 67% ITE and 33% phone for the month and 67 ITE and 37% phone for the fiscal year to date.



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Submitted by Dennis La Belle Minutes from Joint Use Sub-committee

FUCC Meeting

November 7, 2013

Meeting came to order at 8:05 a.m.

7 utility members, 2 communication company representatives and 1 contractor were in attendance. Because there was some miscommunication when the Joint Use committee relocated to a different meeting room, about half of the attendees for the Joint Use session were holding a discussion of their own in another room.

Meeting was called to order by Helen Duncan with Duke Energy, replacing Tim Lloyd. Items on the agenda included the selection of a replacement for Tim Lloyd as Joint Use committee chairman, selecting a topic to be presented at a future FUCC meeting as part of the General Session, and discussion of pole replacements for 2014.

Helen gave a presentation on the pole replacements scheduled by Duke Energy for 2014 broken down by geographic area. The purpose of the presentation was to give those communication companies in attendance advance notice of the impact to be expected in their service areas for budget purposes and scheduling. Barry Owens with SECO also offered his company's projections for 2014. Pole identification for SECO will be complete in the next several months. Pole replacement will begin in January 2014.

The group then discussed topics for a presentation to the general FUCC group. Before a decision could be reached, the group wants to know the required length of the presentation. Helen will follow up with Dennis LaBelle. An email will then be sent out to attendees for them to vote on the topics suggested at today's meeting. At the same time, members will also be able to recommend a speaker, a presenter or even a panel to make the presentation.

No decision was made on a replacement chairperson. Nominations and voting will also take place via email.

Submitted by Luis Castellanos

#### FUCC Underground Interest Group

#### INTRODUCTION BY SANDRA PANOS AND ATTENDIES

#### KATHY THRASH -

- Intro and will be at this afternoons meeting
- Survey's will be send regarding brand awareness

#### Greg Cocker - FPL

- Design Build Project and deep shaft removal requirement
- FPL planned for shallow shaft removal, was not made aware that deep shaft removal was required by Design Build Team
- Utilities beware of DOT requirements
- Where on the plans does it say "deep shaft removal"? not resolved
- During on site meeting no one from DOT or Design Build brought up this issue
- Utilities need to get a "signed work schedule"
- Utility disturbance conflicts conversation need to take place sooner in the project

#### Design Ticket -

There are two places on the web site to enter the type of ticket

#### Luis –

- Subsurface utility markings around public buildings
- Excessive marks
- Excessive ticket recalls
- Using offsets
- Can city engineer do a design ticket and gather utility information to add to bid information
- Can utilities add permanent markers on the curbs
- Can city engineer add to bid instructions that no locate tickets are to be called more than 3 days prior to shovel in the ground
- Wayne Jensen and Sunshine to work with city engineer regarding marks
- Any additions or comments regarding exemption list? No

#### DIRT DATA – Sandra

- 2012 DIRT Data is out
- Does anyone want to hear about this at the next FUCC meeting?
- 811 will be doing an overview at the afternoon meeting
- 811 Board will be reviewing the forms and issue will be on February agenda

Please respond to emails with idea or topics for February meeting.

Submitted by Varlam Molina

# **FUCC** Power Interest Group

November 7, 2013, Howey-in-the-Hills, FL (Cortez Conference Room)

#### **SHARED USE PATHS**

- Covered the FDOT PPM standards for Shared Used Paths as it relates to horizontal and vertical clearances.
- Covered related material in the UAM.
- Discussion related to facility access and getting exceptions to horizontal clearance.

#### **NOISE WALLS**

- Covered related material in FDOT Design Standards for vertical clearance and utility conflict avoidance.
- Covered NESC clearances as it relates to sound walls. Referenced NESC Table 234.1 for greater than 750V-22kV line to ground voltages, which gave minimum clearances of 8' vertical and 7.5' horizontal.
- No discussion on this topic.

#### **ADVANCE CLEARING & GRUBBING**

- After researching the FDOT Standards, Utility Accommodation Manual, and Plans Preparation Manual; we were unable to find a documented process for requesting advance clearing & grubbing for an FDOT project. It appears that these requests are being handled on a case-bycase basis.
- Here are some resolutions from previous projects:
  - o FDOT pays UAO to perform advance clearing for utility relocation
  - FDOT performs advance clearing for utility relocation
  - FDOT allows utility relocation to occur during construction
- Presented case for SR-78 road widening. It was a non-Design Build project. Firm for FDOT was
  very helpful in negotiating advance clearing and grubbing.
- A few FPL coordinators shared success stories relating to this topic; Broward County & Martin County.

#### **Top Ten List**

No additional topics for the top ten were submitted. In addition, the group didn't have a strong feel for any one topic of the current list to bring forth to the Steering Committee.

#### Round table discussions

- o Joint Project Agreements FPL suggested a standard agreement for DOT doing utility work.
- Overlapping projects FDOT admitted to have some but they are funding driven and can sometimes have to be overlapping. Utilities feelings were related to having to relocate multiple times.

Permitting Subcommittee November 6, 2013 10-12am

Chairs Adam Padgett and Jan Ash opened the meeting at 10am with twenty people in attendance.

Electronic Permitting:

FDOT started permitting process in 2010ish. Lea Thompson of FDOT gave a presentation at the Marco Island meeting.

Bryan Lantz discussed the FDOT 3-day user beta testing. The FDOT testing sessions took place in three locations. The majority in attendance at the user acceptance testing (beta testing) was FDOT maintenance personnel. Each company that is going to use the electronic permitting website will need to have an administrator. Under the administrator will be the different levels of users. Internet Supplier Account (ISA account). Companies should begin to consider who would be your administrator, and your user level.

Paper permits will still be accepted, but will have to be manually inputted by FDOT Maintenance staff.

Construction contractors and consultants will have to be users for your company, so that they can prepare permits and submit work start notifications. Think about whom would be your contractor users.

FDOT added a click box to acknowledge that the work was done in compliance with the plans. Closing out permits becomes more important for the utilities. Local FDOT office may be policing closing out permits. The contractor should be closing out showing deviations and revised plans. Suggestions were made to have a notification.

Schedule is to roll-out in late 2013 early 2014. Will follow up with FDOT on roll out and training. If rolled out by Winter Meeting in Ocala, there will likely be an afternoon training session for everyone.

Inconsistencies in Permits:

Discussed an instance of how the type of construction (bore or open trench) created an issue with FDOT maintenance staff, who made the assumption that the contractor would be open cutting unless the plans say otherwise. In this case, the field inspector was asking the utility to resubmit the permit, which seemed unreasonable. Discussed options for resolving this issue and way to avoid in the future.

Discussed the difference between missile bore and directional drilling.

Next meeting – Electronic permitting show and tell.