

Utilities

Joe Hofstee

Utility Engineer

Topics To Cover

- Buy America
- Utility Manual
- Utility Tracking
- Utility Submission Checklist
- What is an Advance Utility Relocation?
- Keys to Successful Utility Coordination
- Prior Rights Procedure and Agreements

Buy America

- Based on MAP-21, Buy America applies whenever the State is allowed to reimburse a utility.
 - All advance utility relocations will have to comply with Buy America.
- Applies to items comprised of at least 90% steel or iron.
- In general does not apply to nuts, washers, bolts, and screws.



Buy America

- Utility must submit list of materials prior to NTP being issued.
- NTP will include items required to meet Buy America.
- Utility is responsible for keeping certification.
- Utility must submit a letter stating that they have complied with Buy America.
- Construction is not responsible for inspecting Buy America.



Utility Manual

- Will be placed on the Delaware Register for public comments March 1, 2013
- Final version expected in May 2013
- Covers permitted work and DelDOT project related work

Temporary Traffic Control

- Transportation Management Plan may be required.
- Reference the DE MUTCDD
- No work shall occur over live traffic

Casing Requirements

- HDPE and PVC Pipe Materials
 - Similar guidelines to DGM 1-20 Revised December 3, 2012
 - Service Level I – RCP, HDPE, Cast Iron, and Ductile Iron.
 - Service Level II – RCP, HDPE, PVC, PP, and Aluminum



Casing Requirements

- No changes to when casing is required:
 - Casing is required at all crossings of full-access-control roadways, arterial roadways, collector roadways, and major entrances.
 - Exceptions:
 - Natural Gas – welded steel pipe 42” of cover
 - Water and Sewer – Ductile Iron Pipe and 42” of cover

ADA



ADA Updates

- Has been moved from the section titled Considerations to the new section titled Standards.
 - “The location of utility facilities and appurtenances shall be in accordance with the Americans with Disabilities Act. Vents, drains, markers, manholes, shafts, shut-offs, cross-connect boxes, pedestals, pad-mounted devices and similar appurtenances should not be located where they would interfere with the accessible facilities for the disabled.”

Guidance on Abandon Facilities



Guidance on Abandon Facilities (Poles)

- Owner responsible for removal.
- All utilities must be transferred off the pole within 60 days.
- Once all utilities have been transferred the pole shall be removed in 5 days.

Guidance on Abandon Utilities

- New section under Abandoned Facilities
 - Requirements for underground facilities:
 - Notify the Department in writing
 - Remains the utility responsibility
 - Must maintain records of the facilities
 - Department can require the removal or filling in the future
 - Pipes larger than 2" and less than 6" capped
 - Pipes 6" and larger must be capped and filled.

Added guidance on where to locate utilities

- Guardrail
 - 4 feet behind back of post
 - Can not be locate 50 feet of either end of the guardrail
 - If requirements can not be met the utility must obtain permanent easements to locate their facilities. (permitted work)
- Lateral Offsets
- Fire Hydrants
 - Must be breakaway within CZ
 - Must be located outside the lateral offset of the roadway
- Breakaway Poles





Upsizing of Poles

- Treated the same as a new pole installation.



Fill Material

- Borrow Type C
- Flowable fill
 - Not to be used around flexible pipes
 - Must meet the requirements of Special Provisions.
- Utility must specify fill material on application (permit work)

Time Consequences

- Larger Projects
- Based off user delay cost
- Traffic will determine the cost
- Written into the agreements

Non Compliance

- Public safety or impedes the flow of traffic the utility shall begin to take actions to address noncompliance within three hours of notification.
- The State can revoke the Master Franchise.

Signal and Lighting Connections

- Section 5.5.3 "Electric Power Service for roadway lighting, traffic signals, and its equipment.
- Memorandum Dated October 19, 2011
- Not cover by 17 Delaware Code § 143
- PD and traffic will identify power supply need for roadway appurtenances.
- Utility will provide cost estimate.

Signal and Lighting Connections

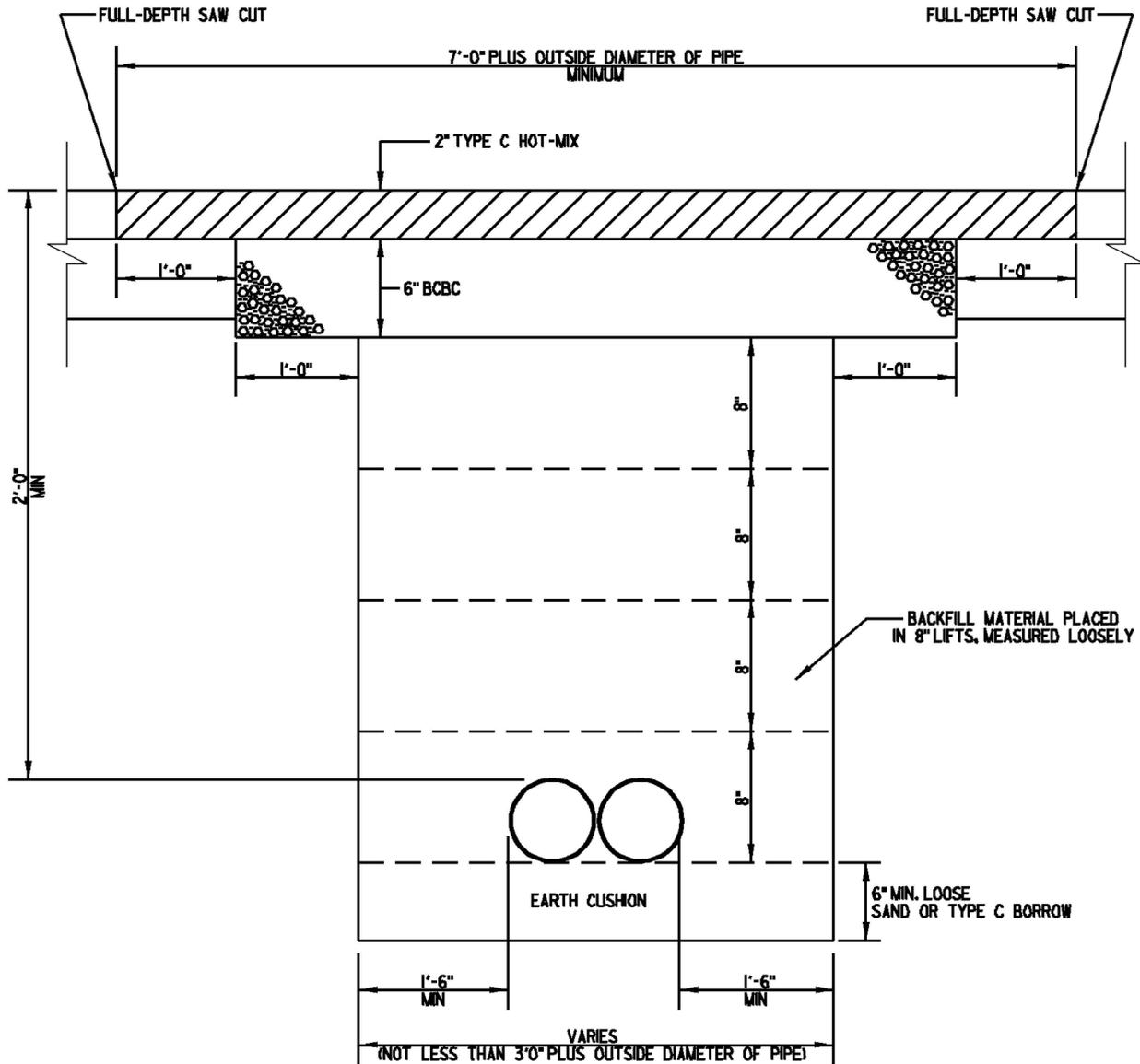
- Part of the Traffic and Utility Statement.
- Traffic Section will issue the NTP.
- Traffic will prepare and submit the Request for Power Service Form to the utility.
- Invoices are sent to the construction section.
- Traffic Section will pay invoices out of Phase 5.
- Bill for service will be paid by the appropriate division or section as identified in the Request for Power Service Form.

Securities on Projects

- Larger permit projects.
- Can be issued to insure the work is completed.
- Part of the permit.
- 150% of the cost

Patching Details

- Patching details have been updated to match the Standard Construction Detail for Pipe Bedding.
- Temporary Patch is the same for all three Counties.
- Separate Details by County for Permanent Patch.
 - Kent and Sussex
 - 2” Type C over 6” BCBC for Hot Mix and Concrete
 - New Castle
 - 2” Type C over 8” Concrete or 12” BCBC for Hot Mix Pavement
 - 2” Type C over 8” Concrete for Concrete Pavement



NOTE:
 PATCHES MUST HAVE A MINIMUM LENGTH OF 6'-0" PLUS OUTSIDE DIAMETER OF PIPE (AS MEASURED ALONG THE ROADWAY CENTERLINE) AND THE WIDTH OF THE LANE OR LANES DISTURBED.

General Utility Manual Updates

- No reference to specification numbers
- Construction specs have been removed from the appendix
- Delineators for appurtenance less than 4"
- Clarified the responsibility of the utility to obtain permits.

Utility Tracking

- Database in Access
- Generates reports for:
 - Individual utilities
 - Late submissions
 - Sections
 - Managers
 - Coordinator
- Reports located on the shared drive

Projects Past Due

Project #	Project	Coordinator	Section	Utility Company	Submission Date	Delivered to Utilities	Comments
T200412202	SR-1, Little Heaven Grade-Separated Intersection	Jeff Steward	PD South	Delmarva Power Electric Distribution		11/19/2012	
						11/19/2012	
T200412401	US 13 Seaford Improvements Includes US	Jeff Steward	PD South	Verizon Delaware, LLC	11/29/2012	12/10/2012	
				Comcast Cablevision of Delmarva Inc.	11/29/2012	12/10/2012	
				Delmarva Power Electric Distribution	11/29/2012	12/10/2012	
				Chesapeake Utilities	11/29/2012	12/10/2012	
				City of Seaford	11/29/2012	12/10/2012	
T20042022	Bethany Beach, Garfield Parkway Design	Jeff Steward	TE Project	Sussex Co Engineering Dept		9/11/2012	
				Verizon Delaware, LLC		9/11/2012	
T200504110	N54, Howell School Road from SR 896 to SR 71	Kendall Robinson	PD North	NCC Special Services		12/24/2012	
				Artesian Water Company		12/24/2012	
				Comcast Cablevision of Delmarva Inc.		12/24/2012	
				Delmarva Power Gas		12/24/2012	Ready for Construction
				Delmarva Power Electric Distribution		12/24/2012	
				Verizon Delaware, LLC		12/24/2012	
T200507303	Bridge 3-156, Indian River Inlet Park Enhancements	Jeff Steward	Bridge	Delmarva Power Electric Distribution	9/1/2012	9/13/2012	
				Tidewater Utilities Inc	9/1/2012	9/13/2012	
				Mediacom	9/1/2012	9/13/2012	
T200511201	Patriots Way Avenue of Honor to Stockley Branch	Jeff Steward	PD South	Delmarva Power Transimission	11/1/2012	11/15/2012	

Note: Type only in the areas designated for data entry. Your reply will be automatically processed, so it is **important** that the form or the message is **not altered** in any other way.

Add Submission Dates Table Form

Type only in the areas designated for data entry. Your reply will be automatically processed. Therefore, it is important that the form or the message is not altered in any other way. For more information about filling out this form, see the following:

Project Number:

Example: For "; " type '1'.

Type the number corresponding to the value you want. [Click this link](#) or scroll down to see your choices.

Utility Submission:

Example: For "Concept" type '1'.

Type the number corresponding to the value you want. [Click this link](#) or scroll down to see your choices.

Utility Company:

Example: For "24/7" type '1'.

Type the number corresponding to the value you want. [Click this link](#) or scroll down to see your choices.

Delivered to Utilities:

Type either a date, a time, or a combination of both in the following format: 1/30/2013 11:05:44 AM

Mark ups recieved:

Type either a date, a time, or a combination of both in the following format: 1/30/2013 11:05:44 AM

Done? Click Send to submit your information.

Information that helps users fill out the form.

Select the field name to return to the data entry portion of the form.

[Project Number:](#)

In the list below, select the number that corresponds to the value you want.

1. ;
2. ; BR 1-204
3. ; US 113 at Millsboro Towne Square /1st Street
4. T201001101; Grubb Road Sidewalks
5. 11-11271; Kirkwood Highway and SR141 Interchange. Ramos PE & PG Improvements

Utility Checklist

- Clearly defines requirements
- Identifies what is not covered
- Located on DRC

UTILITY SUBMISSION CHECKLIST
TO BE TURNED IN BY THE UTILITY WITH PRELIMINARY SUBMISSION

State Contract# _____ Primavera# _____ F.A.P# _____

Project Title _____

County _____ Utility Coordinator _____ Date ___/___/___

Utility Company _____

Utility representative shall review this checklist to verify that all necessary information is included. Please sign, initial, and return with the requested information within 30 days of receipt.

Utility Verification Submittal:

Utility Representative: _____ Date: _____

Verified existing utilities are shown correctly on plans.

Provided marked up plans showing:

proposed relocated facilities.

proposed additional right of way needed. *(Please mark N/A if additional R/W will not be required by your company.)*

identified potential conflicts between DelDOT work and utility facilities. *(Please mark N/A if no conflicts are present.)*

Draft narrative of the Utility Statement.

Requested design around alternatives if applicable.

Provided documentation of existing easements. *(Please mark N/A if no existing easements are present within the project limits.)*

Advance Utility Relocation

- Utility relocation prior to contractor's NTP
- Prior approval
 - Less than \$100k Utility Engineer
 - \$100k plus letter AD Support approval from Director
- Process is located on the DRC

Advance Utility Relocation

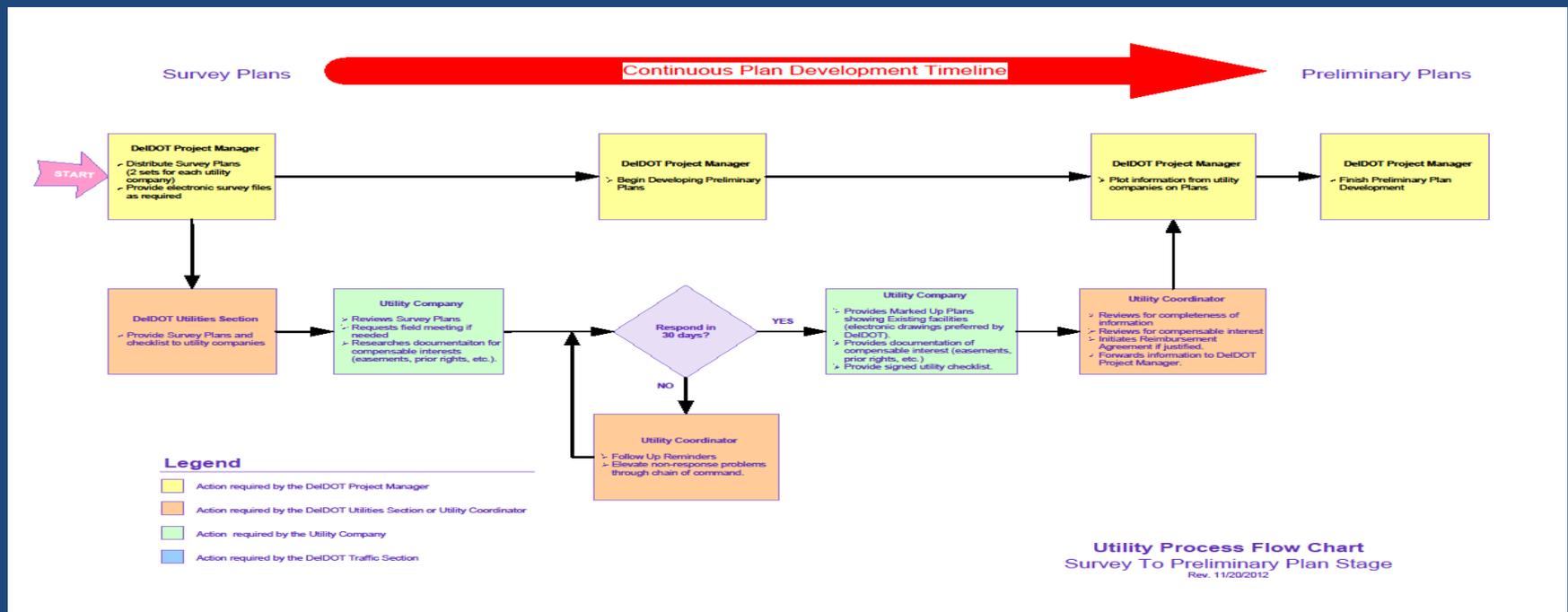
- Buy America
- Reimbursement
 - MOT
 - Borrow
 - Clearing
- Delays greater than 2 years all cost born by the Department
- Inspected by construction.

Updated Master Franchise Agreement

- New Agreements Only
- Response time
 - Emergencies - immediately
 - Non emergencies – within three hours
- Actions:
 - State may revoke Franchise (new)
 - Trustee's can be appointed (new)
 - Utilities can be removed (new)
 - No new permits
 - Stop work order

Utility flow Chart

- Clearly defines responsibilities of all parties.
- The plans procedure is update reflect the flow chart.
- Found on the DRC.



Keys to Successful Coordination

- Early identification
 - Field scoping
 - Test pits
- Provide existing deed information to the utilities
- CAD files
- Cross Sections (Utilities Shown)

Keys to Successful Coordination

- Minimize impacts
- Brief summary of changes
- Coordination with Public Works
- Adequate R/W
- Field Staking
- Proper funding/ Reimbursement

Keys to Successful Coordination

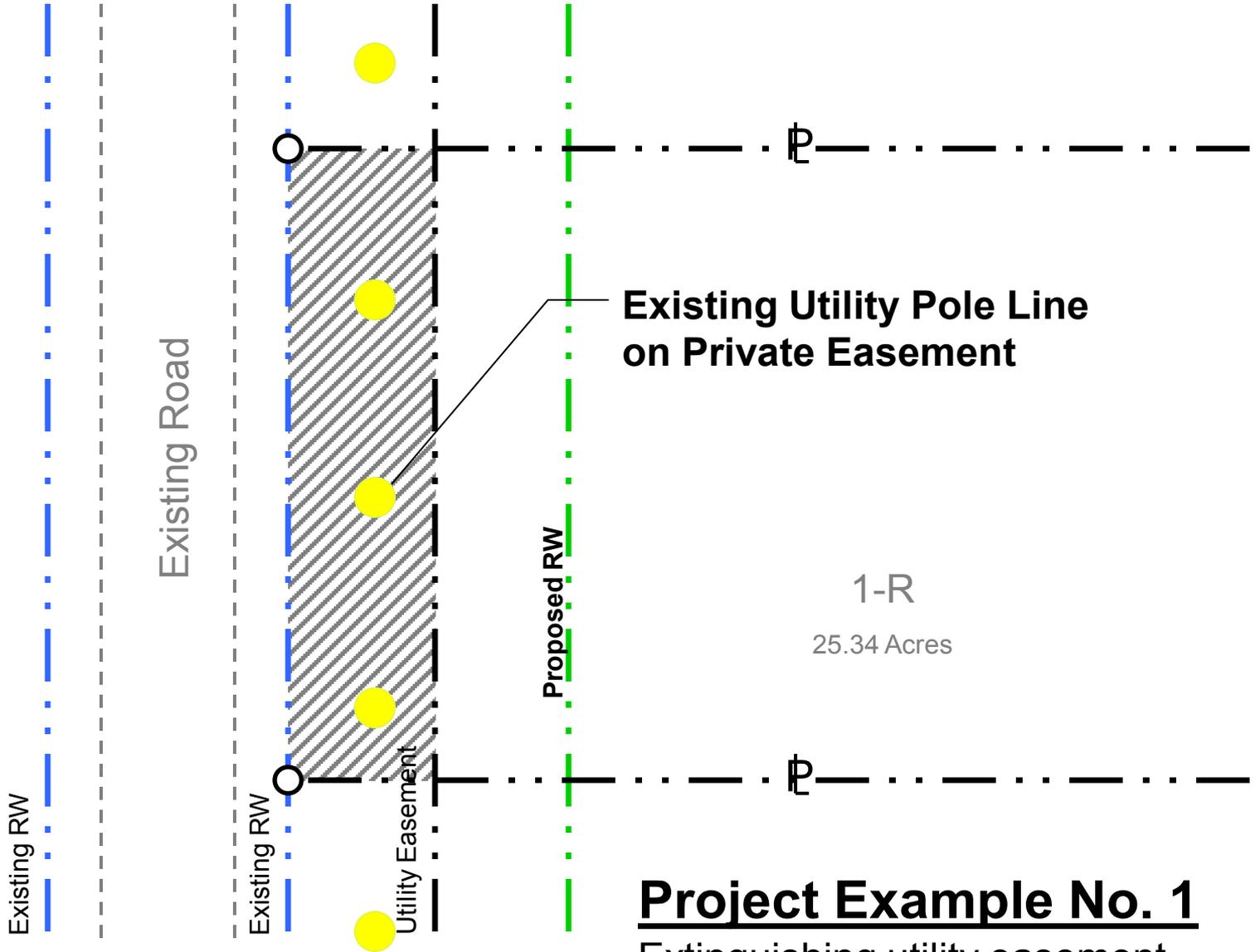
- Utility involvement in construction phasing
- Identify cuts and fills
 - Can change during construction
- Schedules based off lead times
- Early identification of advance relocation

Revised Monthly Utility Coordination Meetings

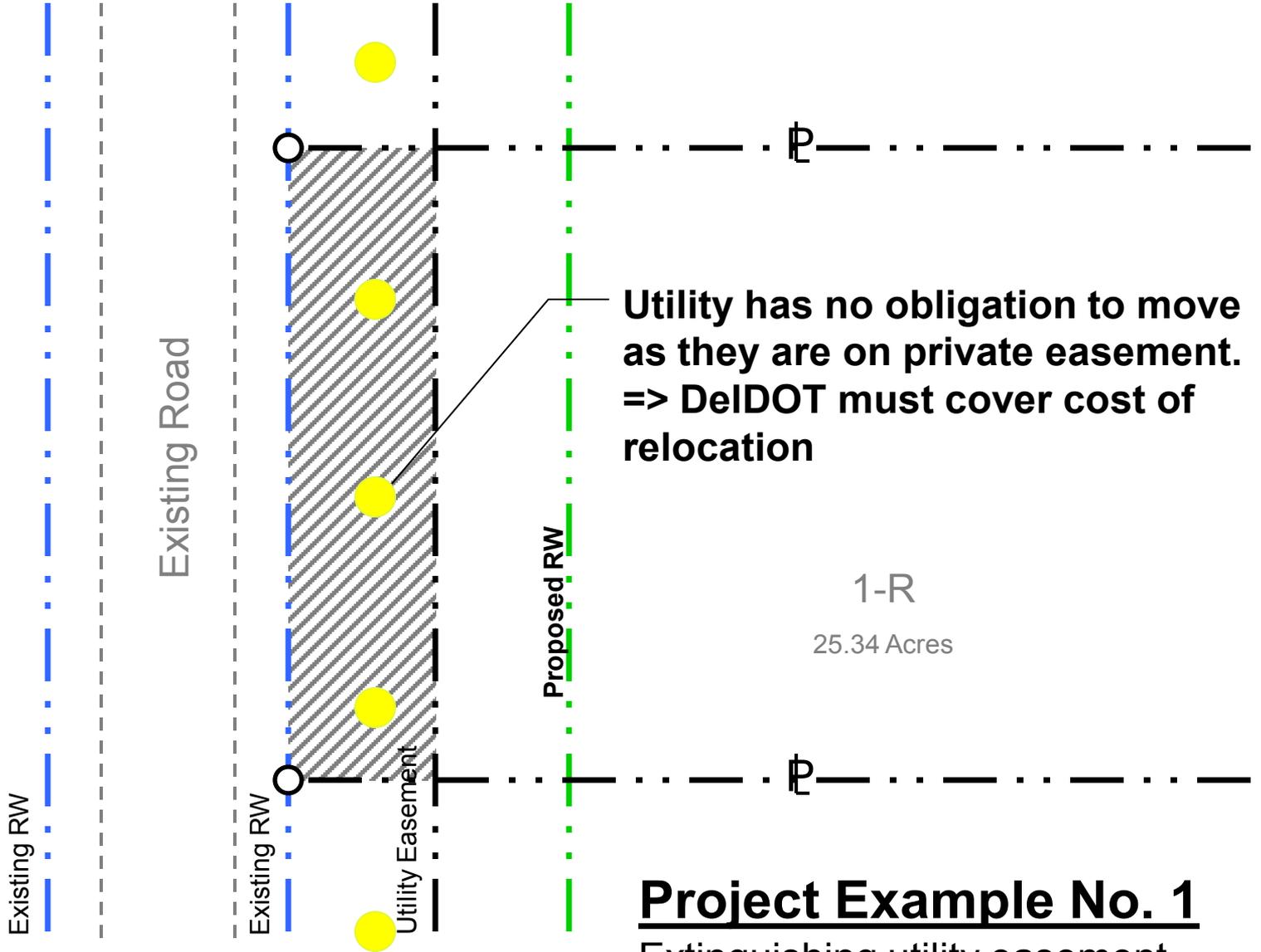
- North once a month second Thursday
- South Quarterly
 - Construction Projects
 - Design Projects
 - Bridge
 - Project Development
 - TE Projects
 - Consultant Projects

What is Prior Rights?

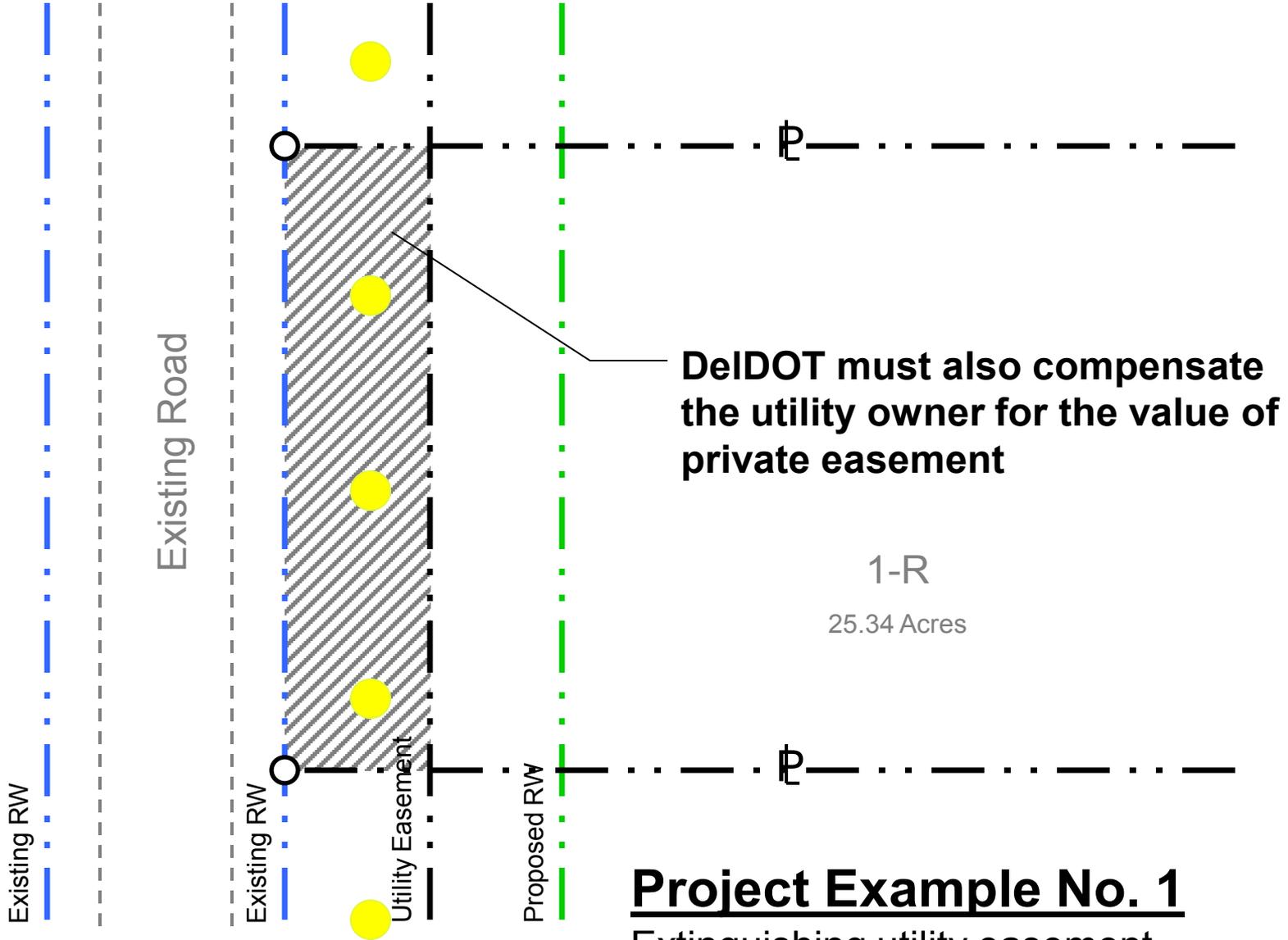
- DeIDOT is obligated to compensate utility owners to relocate their facilities off private easement.
- All private easements must be acquired and extinguished during the acquisition process.
- DeIDOT Real Estate Section acquires RW as fee simple estate rights giving DeIDOT absolute ownership unencumbered by any other interest.



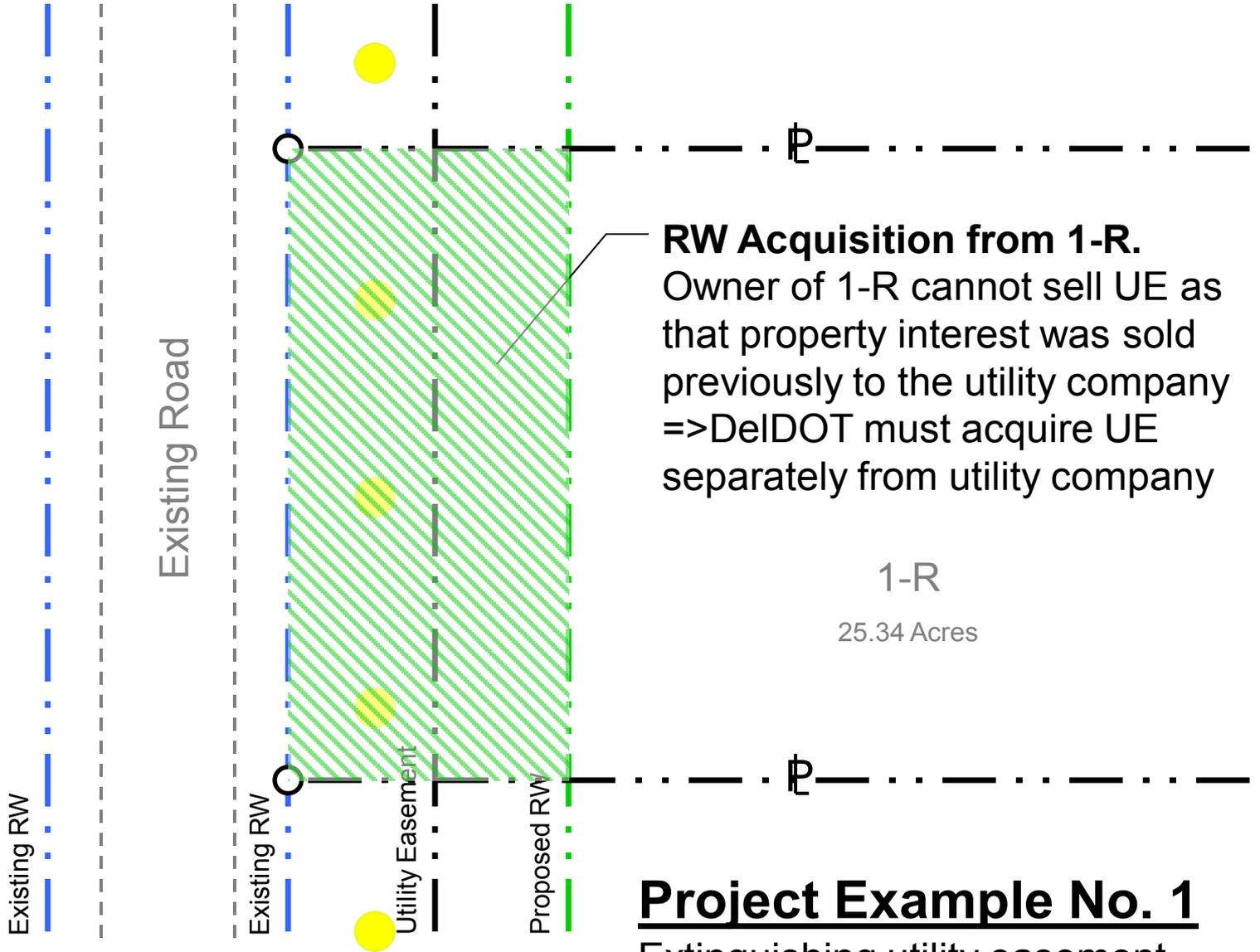
Project Example No. 1
Extinguishing utility easement



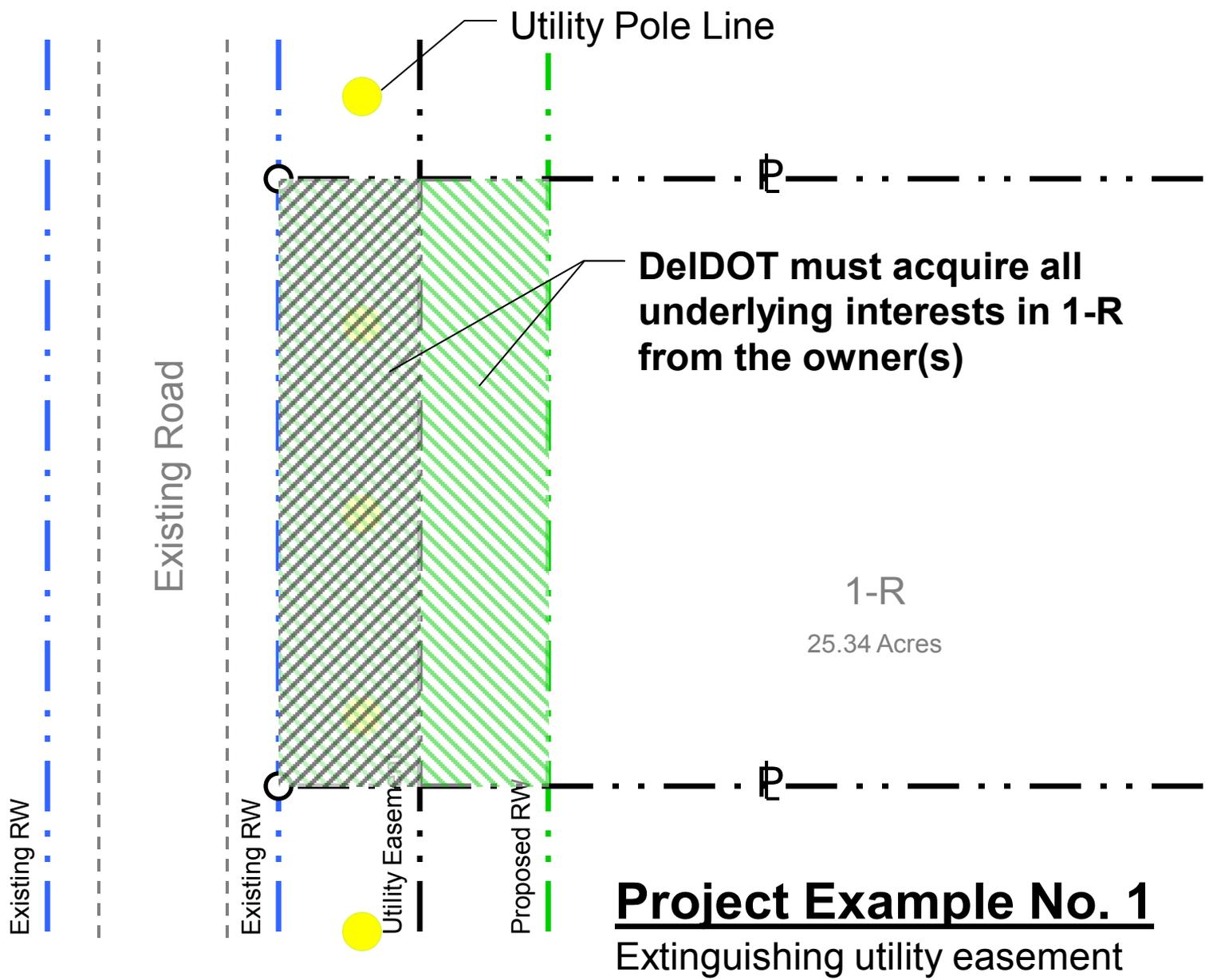
Project Example No. 1 Extinguishing utility easement

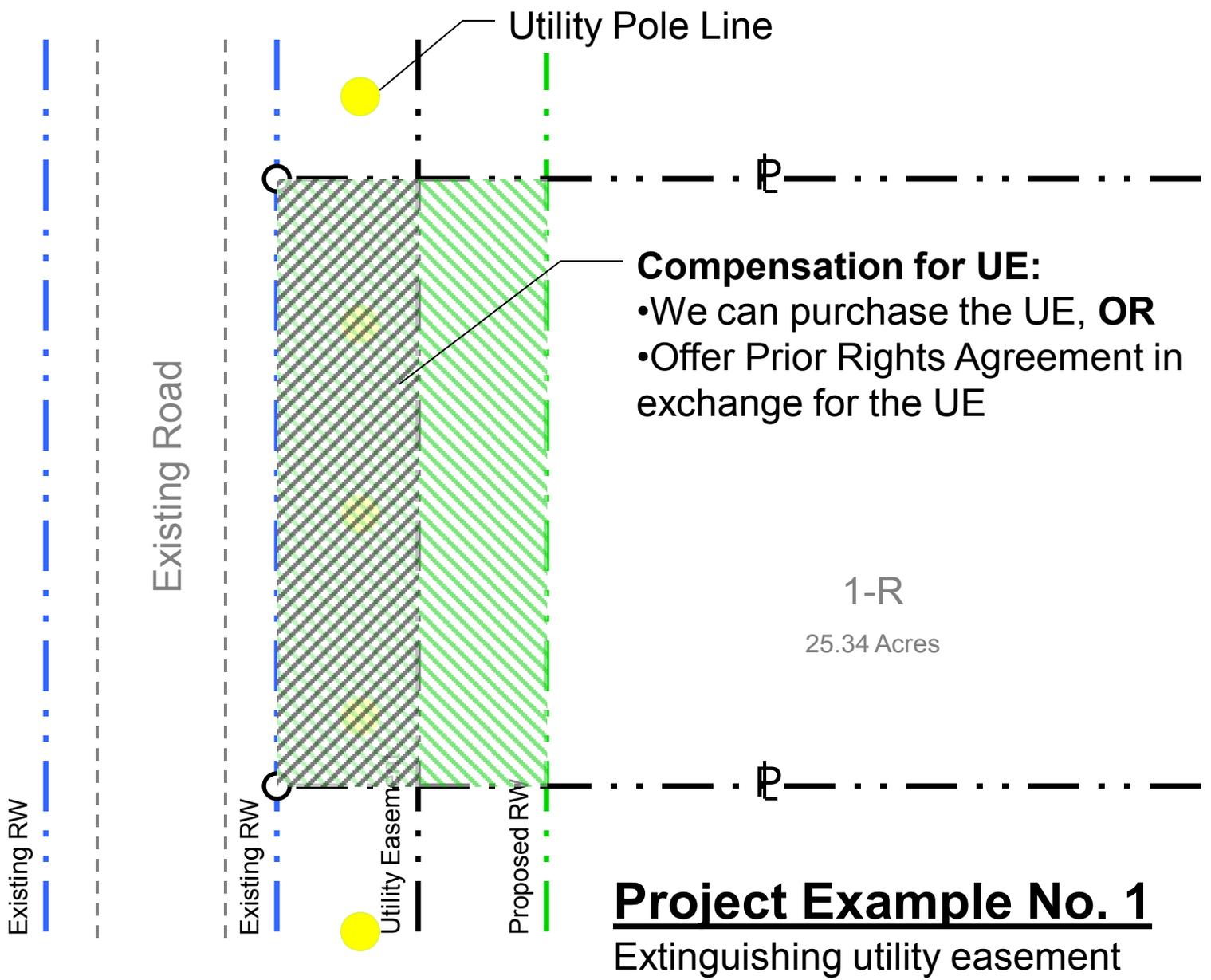


Project Example No. 1
Extinguishing utility easement



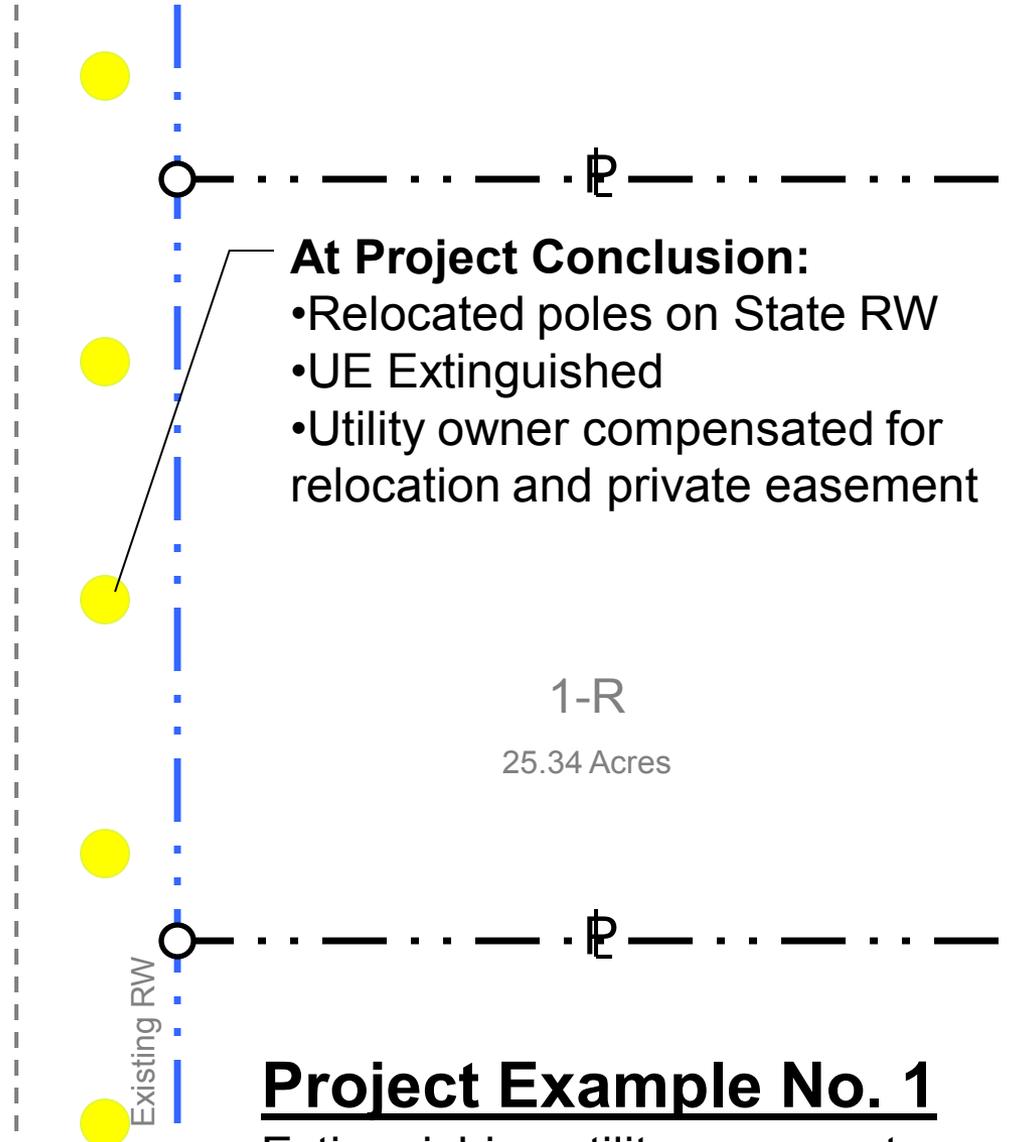
Project Example No. 1
 Extinguishing utility easement







Widened Road



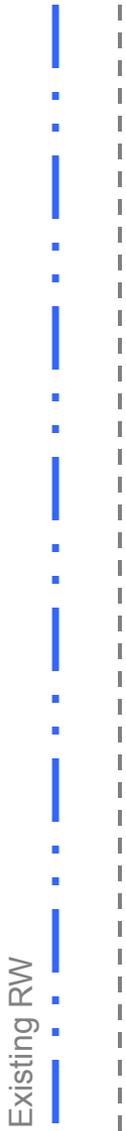
- At Project Conclusion:**
- Relocated poles on State RW
 - UE Extinguished
 - Utility owner compensated for relocation and private easement

1-R
25.34 Acres

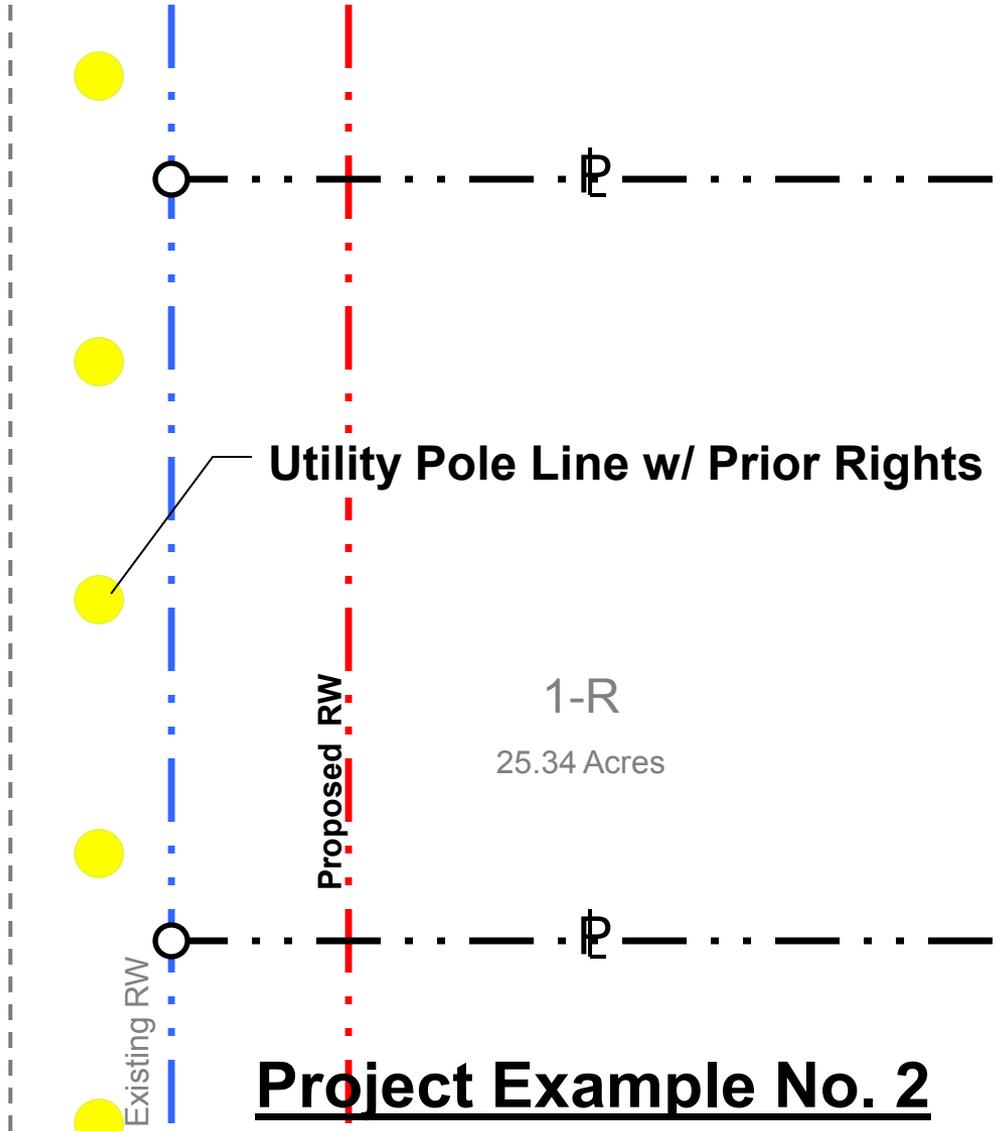
Project Example No. 1
Extinguishing utility easement

Review Extinguishment of UE

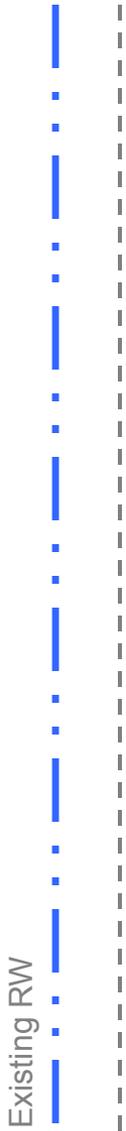
- DeIDOT can pay for the relocation AND buy/pay for the easement, OR
- DeIDOT can pay for the relocation AND provide Prior Rights Agreement only in exchange for extinguishing the easement.
- Most utility companies would rather have prior rights because future relocation costs are higher than the value of the easement in most cases.



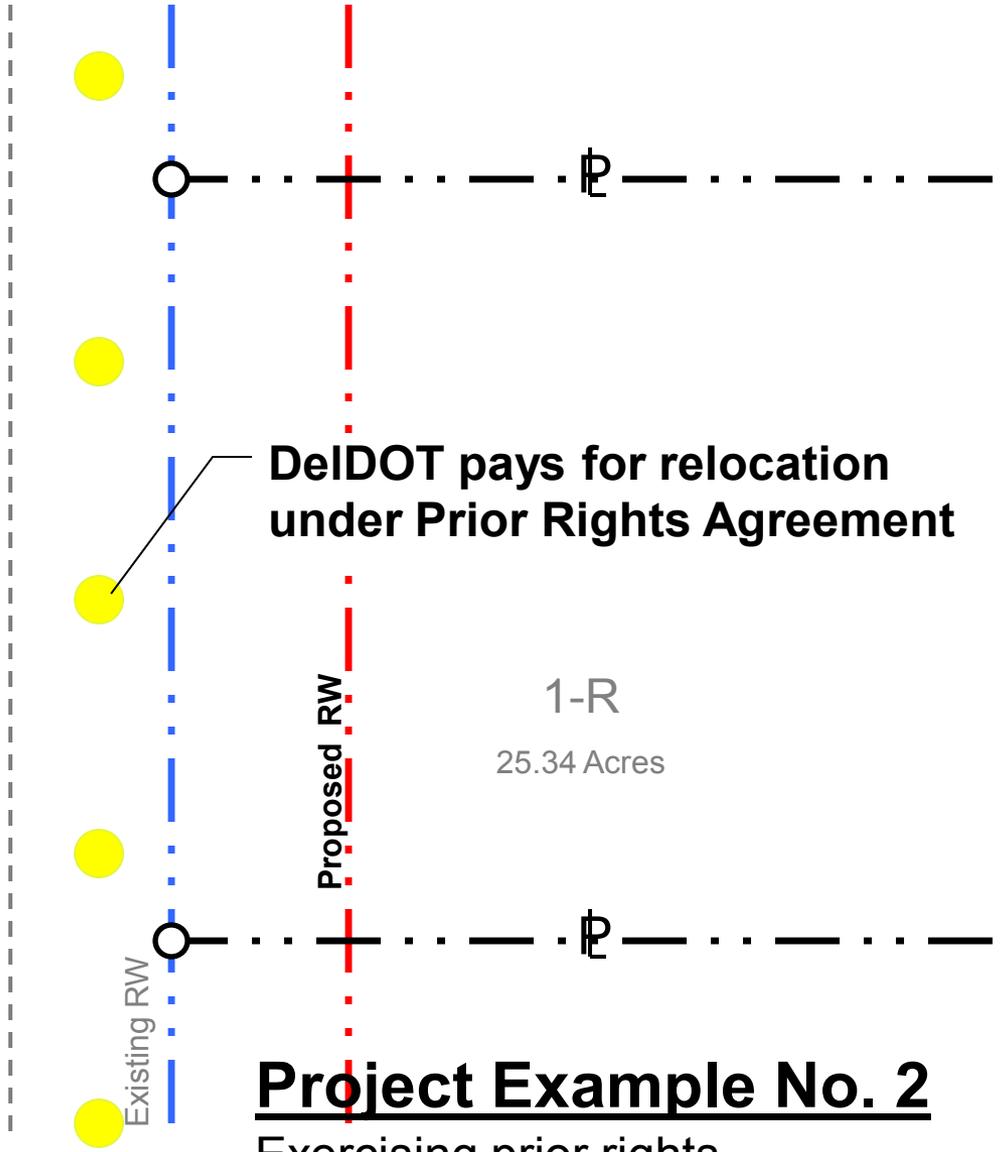
Existing Road



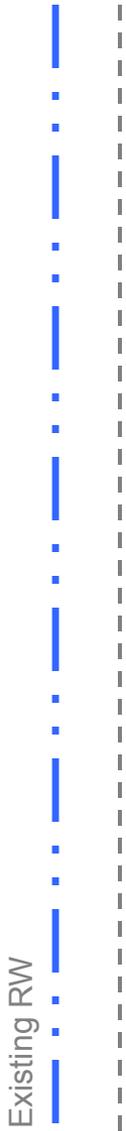
Project Example No. 2
Exercising prior rights



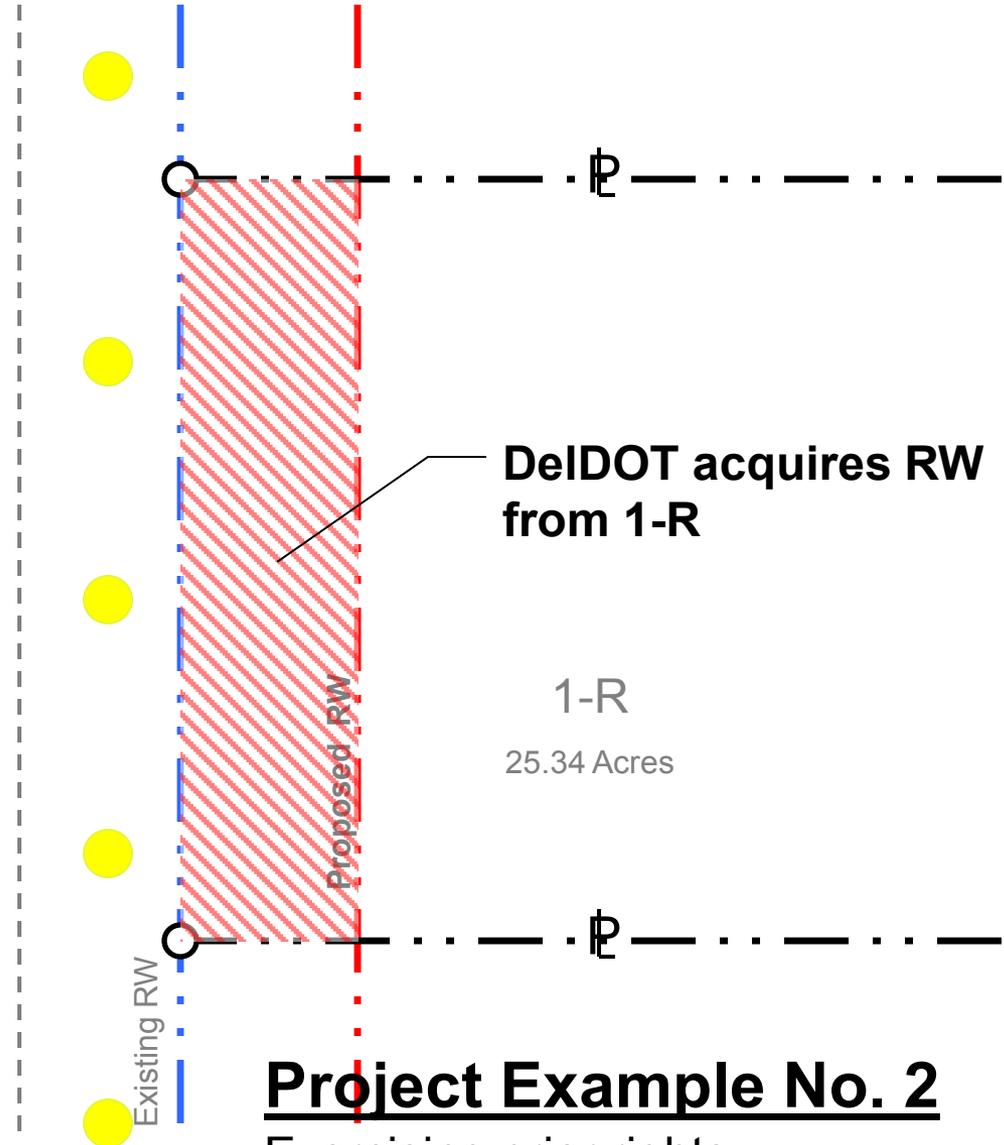
Existing Road



Project Example No. 2
Exercising prior rights



Existing Road

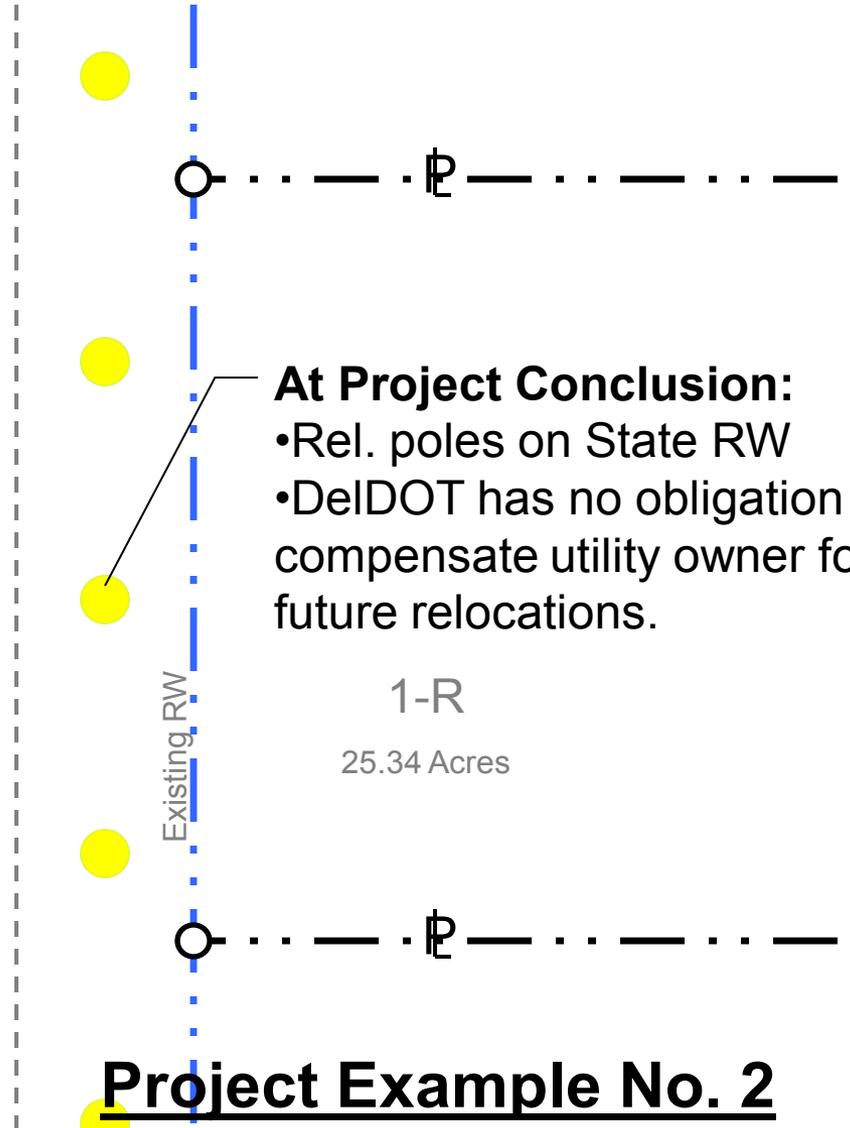


Project Example No. 2
Exercising prior rights



Existing RW

Widened Road



At Project Conclusion:

- Rel. poles on State RW
- DeIDOT has no obligation to compensate utility owner for future relocations.

1-R

25.34 Acres

Existing RW

Project Example No. 2

Exercising prior rights

What is Prior Rights?

- DeIDOT must identify, negotiate, and settle with each property interest owner separately.
- DeIDOT needs to research and identify private easements and prior rights agreements early in the design phase of projects.
- Utility companies need to provide DeIDOT with documentation of their easements and prior rights agreements early in the design phase of projects.

Updates to Prior Rights

- Separate Agreement
- Recorded as part of the deed
- Looking into Department performing Title Searches
- DeIDOT will provide the utility with our initial deed research

Contact Information

Joe Hofstee

Utility Engineer

302-760-2358

Joseph.hofstee@state.de.us