



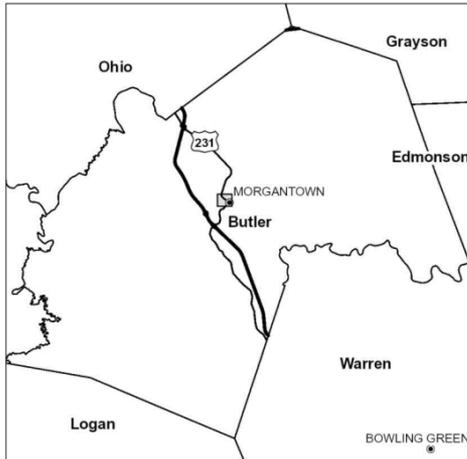
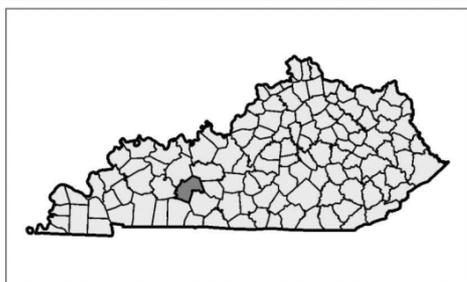
# CONTEXT SENSITIVE UTILITIES SUCCESS STORIES



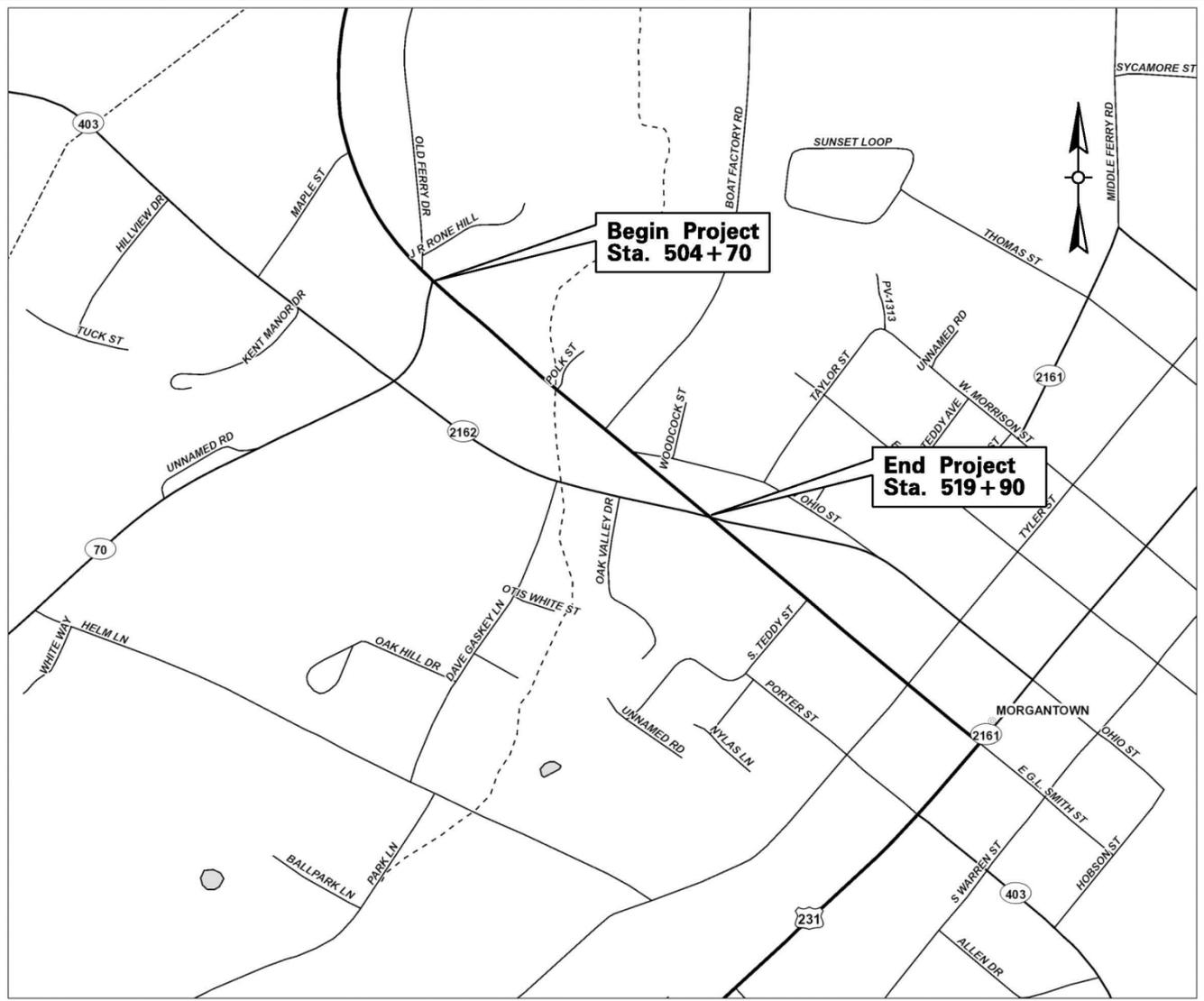
**PRESENTED BY:**

**DISTRICT 3: Joseph Plunk, Stewart Lich  
&**

**DISTRICT 6: Nikki Boden**

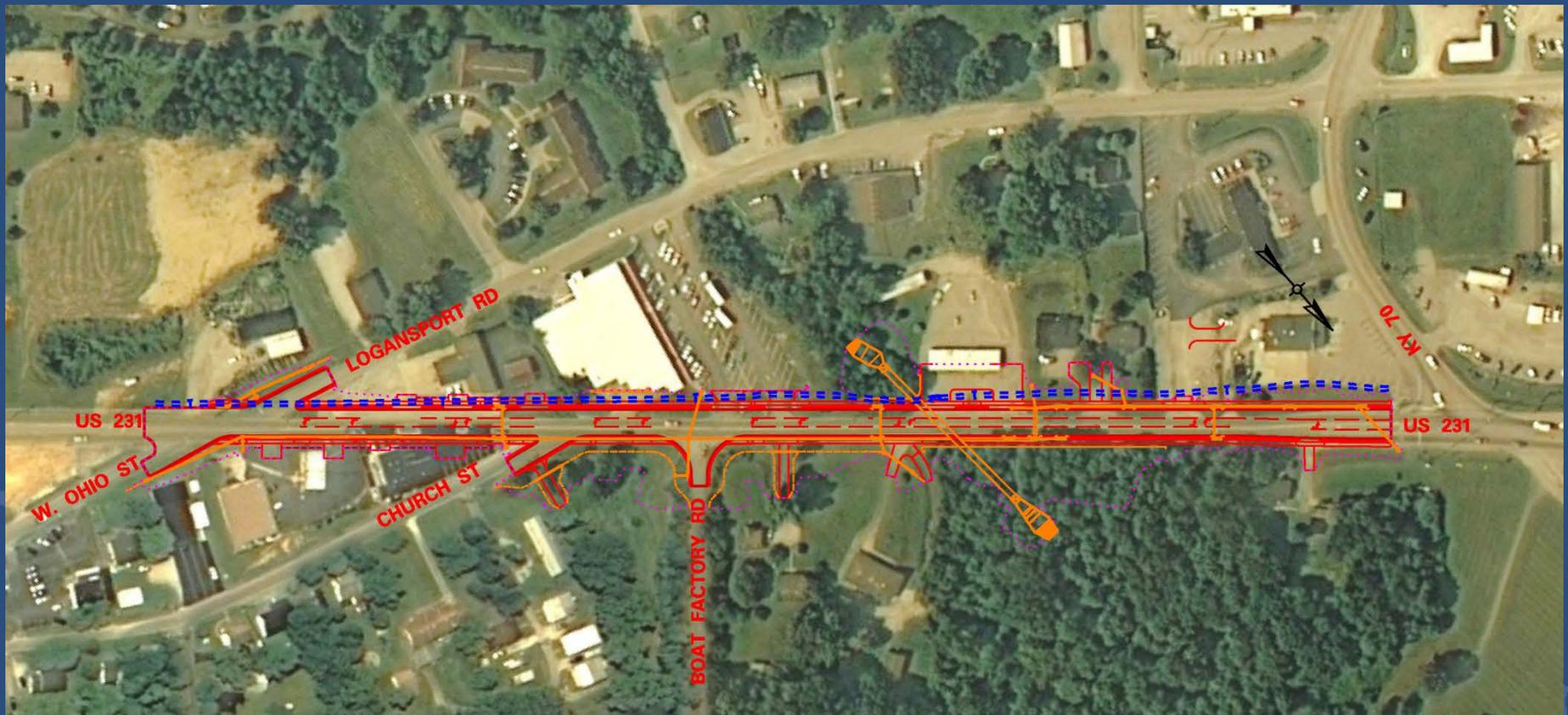


**3-8503.00**  
**Butler County**  
**US 231**



**CONTEXT SENSITIVE UTILITIES  
SUCCESS STORIES**





- Telephone duct is completely inside KYTC Right of Way.
- Re-routing along Logansport Road was estimated at 18-24 months.
- Began exploring ways for the telephone duct to remain in place.



## CONTEXT SENSITIVE UTILITIES SUCCESS STORIES





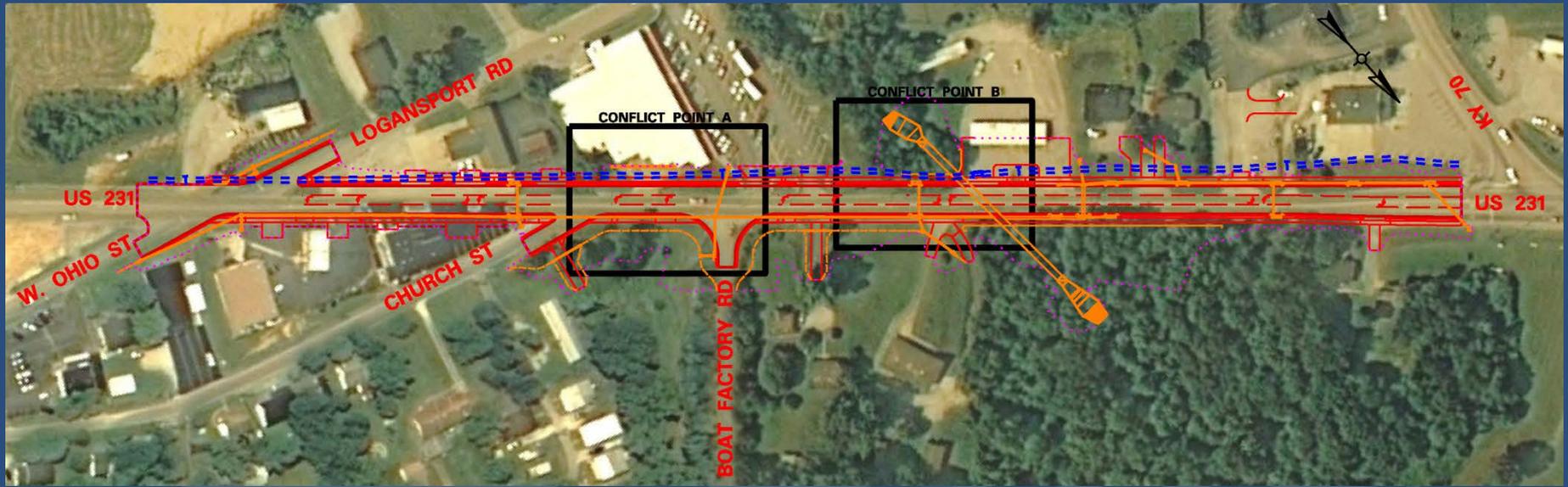
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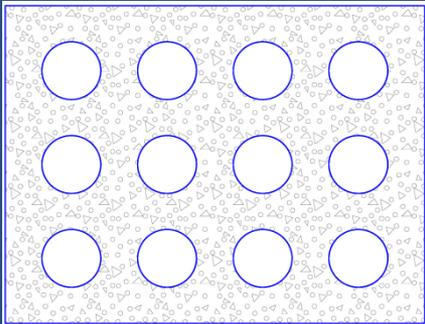
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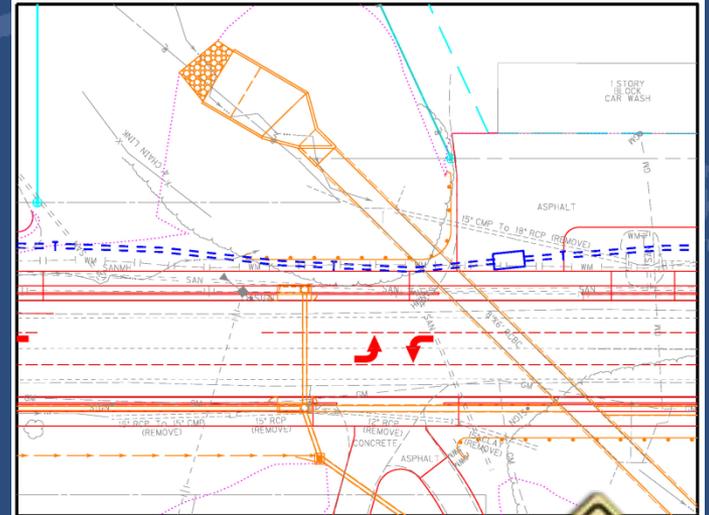
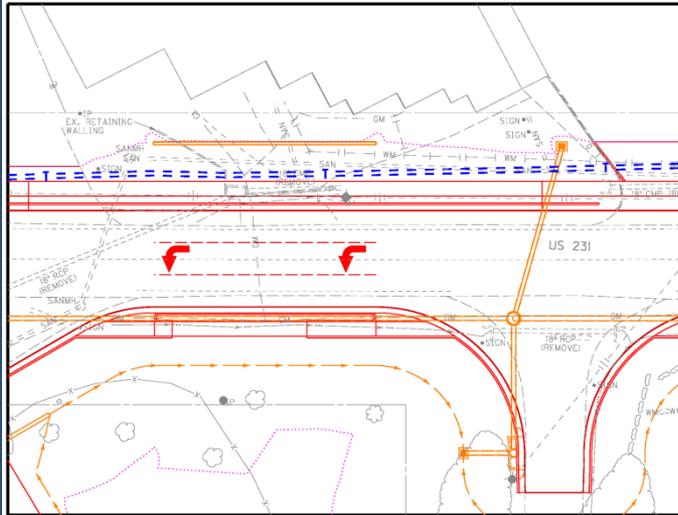


**CONFLICT POINT A**

**CONFLICT POINT B**



**TELEPHONE DUCT  
CROSS SECTION**



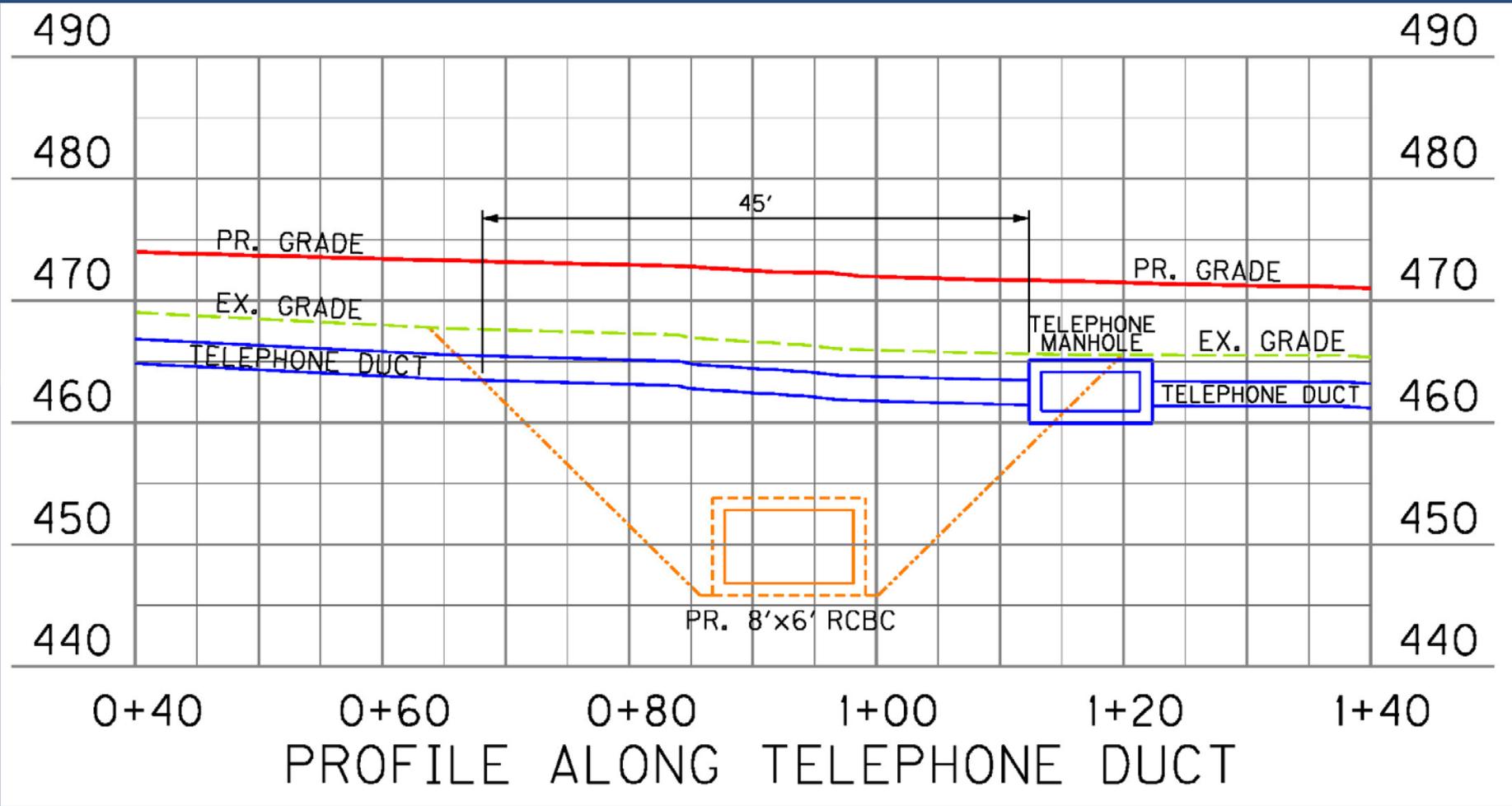
**CONTEXT SENSITIVE UTILITIES  
SUCCESS STORIES**





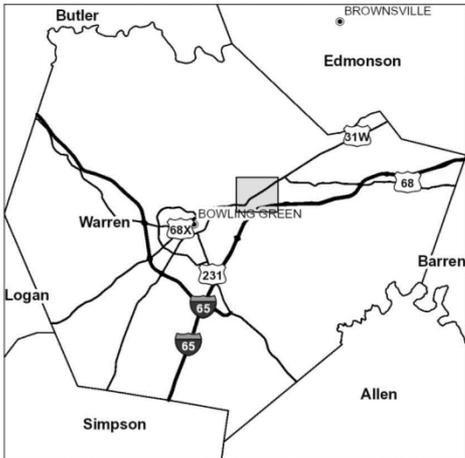
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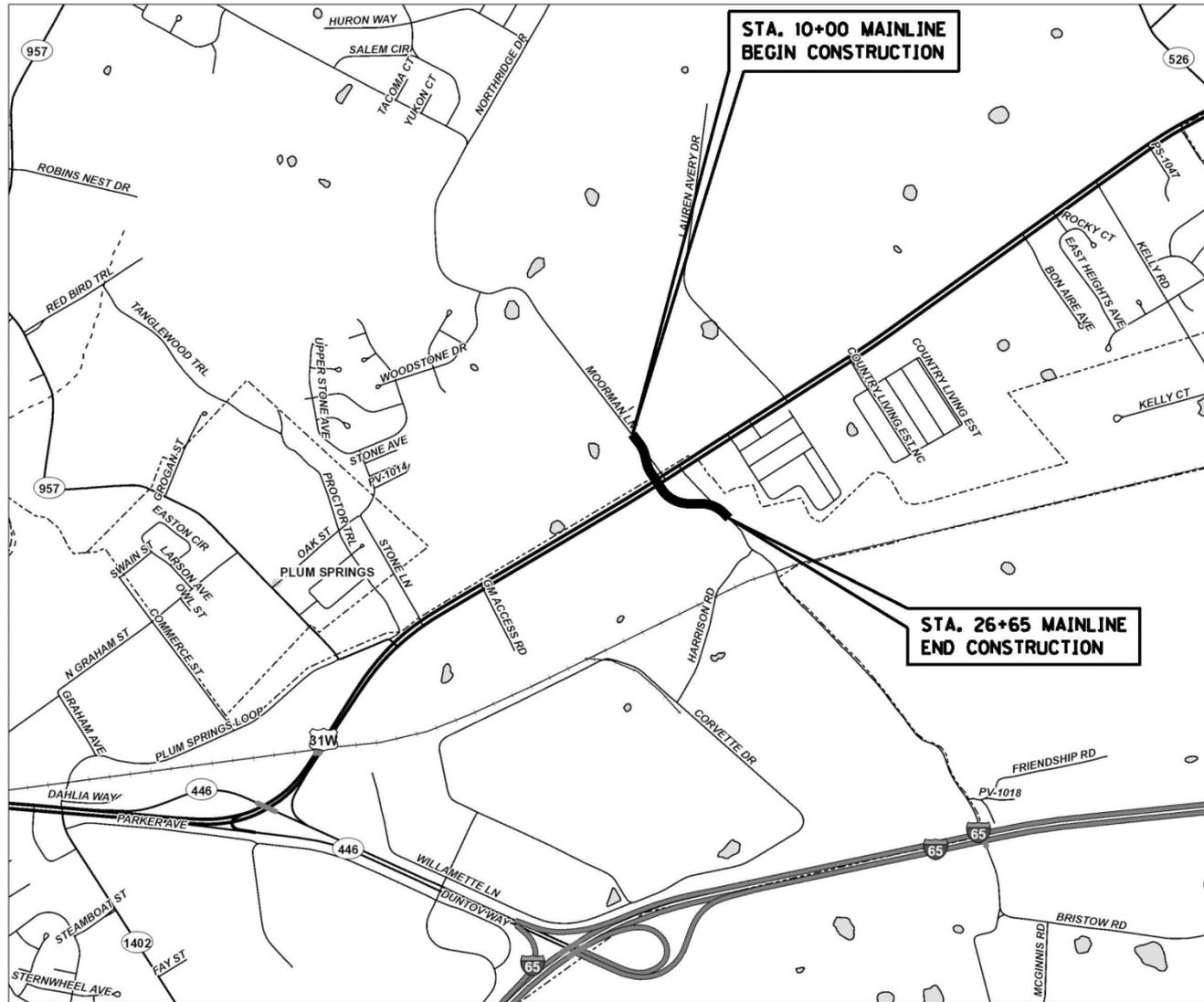


**CONTEXT SENSITIVE UTILITIES  
SUCCESS STORIES**



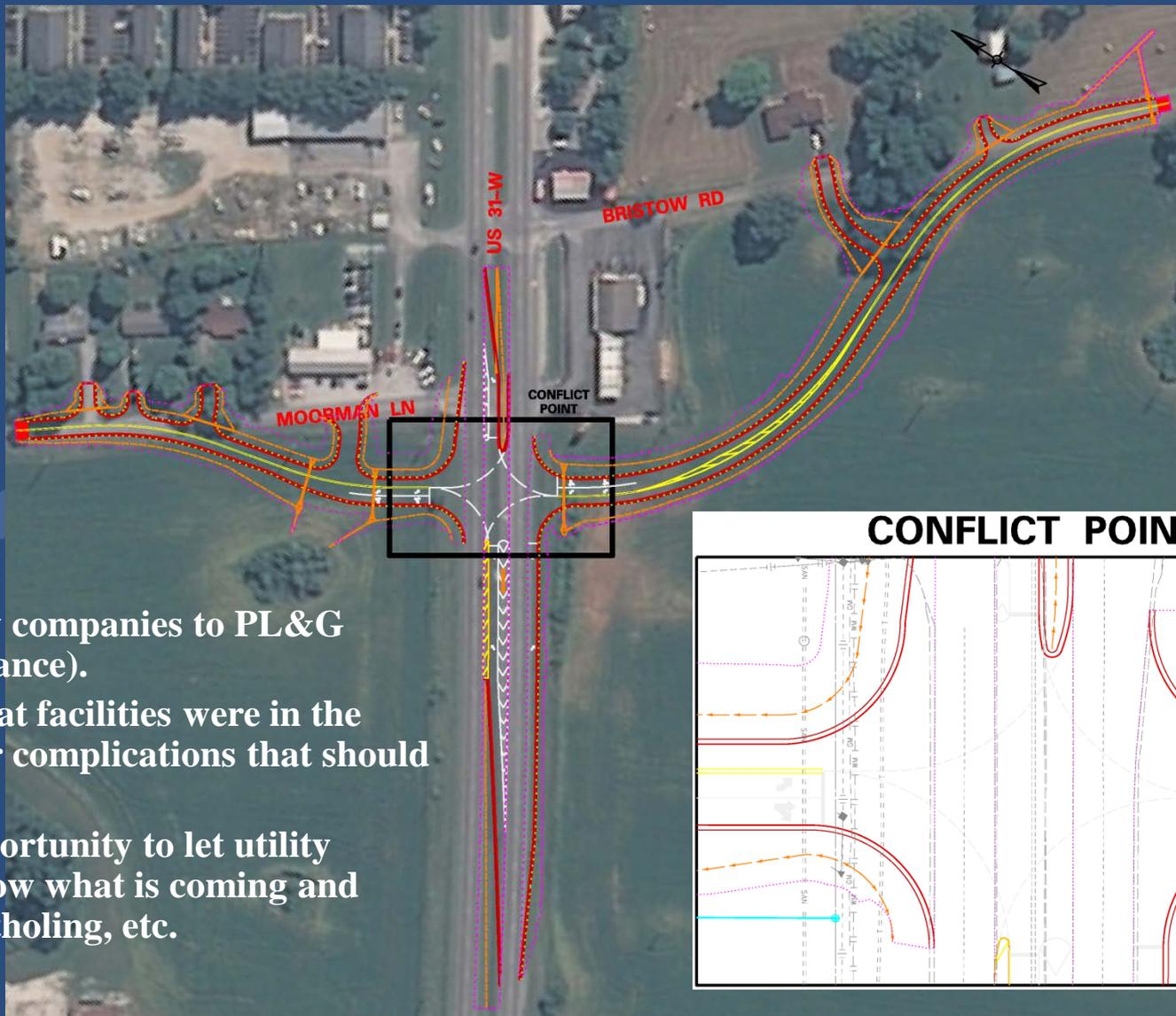


**3-0200.00  
WARREN COUNTY  
INTERSECTION REALIGNMENT  
OF BRISTOW ROAD &  
MOORMAN LANE  
AT US 31-W**



**CONTEXT SENSITIVE UTILITIES  
SUCCESS STORIES**





- Invited utility companies to PL&G (100% Attendance).
- Discussed what facilities were in the area and other complications that should be expected.
- Excellent opportunity to let utility companies know what is coming and coordinate potholing, etc.



## CONTEXT SENSITIVE UTILITIES SUCCESS STORIES



# UTILITY PROCESS USING DESIGN FUNDS

## Planning

- Verification & Field Work
- Coordination Meetings

## Preliminary Design

- Preliminary Utility Design
- Request Design Funds
- Execute Engineering Service Agreement

## Final Design

- Finalize Utility Design
- Request Utility Funds
- Execute Construction Reimbursement Agreement



Streamlining the Utility Process



# DISTRICT 6 TOOLS

1. Utilize Roadway Designer in lieu of Utility Company Consultant
2. Create Standard Utility Bid Items for statewide use
3. Look for simple design revisions to avoid utilities



Streamlining the Utility Process



# Utilizing Roadway Designer

## PROS

- Improved communication & coordination
- Eliminates numerous steps of the utility process

## CONS

- Requires Design Contract Modification
- Requires additional coordination meetings



Streamlining the Utility Process



# Utilizing Roadway Designer

## Planning

- Verification & Field Work
- Coordination Meetings

## Preliminary Design

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## Final Design

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Streamlining the Utility Process



# Utilizing Roadway Designer

## Design Production Units

### FINAL PLAN PREPARATION (Continued)

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS
121	Prepare elevation developments	No.	2		0
<b>FINAL PLANS MISCELLANEOUS</b>					
140	Coordinate Plans with City of Newport/Future Development	LS	1		0
147	Utility Coordination Sheets	Sheet	23		0
148	Watermain Design	LS	1		0
149	Sanitary Rehab	LS	1		0
150	Sanitary Design-Ovation	LS	1		0
<b>FINAL PLANS TOTAL</b>					<b>0</b>



Streamlining the Utility Process



# Utilizing Roadway Designer

## PRODUCTION-HOUR WORKSHEET

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS
30	Research Existing Utility Records	LS	1		0
31	Prepare Preliminary Plans	LS	1		0
32	Draft Basis of Design Memorandum	LS	1		0
33	Preliminary design calculations	LS	1		0
34	Preliminary Sequence of Construction	LS	1		0
35	Draft Technical Specifications	LS	1		0
36	50% OPCC	LS	1		0
37	Submit 50% Design Deliverables	LS	1		0
38	50% Review Meeting	LS	1		0
39	<b>TOTAL HOURS for 50%</b>		1	0	0



Streamlining the Utility Process



# Standard Utility Bid Items

## Water, Sanitary Sewer & Gas

1. Streamline Plan Submittal
2. Simplify Construction Billing
3. Encourage Inclusion of Utility Relocation into Roadway Contract



Streamlining the Utility Process



# Standard Utility Bid Items

## Encasement

- 3 bid items with size ranges

## Service Lines

- Short side vs. long side

## Fittings/Bends

- All fittings incidental to pipe bid item



Streamlining the Utility Process



# Design Revision Quick Wins

## Drainage Items

- Roadside ditches
- Type B inlets vs.. Type A inlets
- Fill/Cut slopes

## Entrances

- Location
- Radius

## Geotech

- Embankment Benching
- 1' Working Platform



Streamlining the Utility Process

