

# ROADWAY EVALUATION

**East Union Township**  
**SCHUYLKILL COUNTY, PENNSYLVANIA**

PREPARED FOR

**East Union Township Supervisors**  
10 EAST ELM STREET  
SHEPPTON, PA 18248

March 2024

PROJECT NO. 32098.02



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## **PURPOSE OF REPORT**

The purpose of this report is to provide the East Union Township Supervisors with an assessment of roadways in the Township and to identify and prioritize recommended roadway improvements. This report also provides costs and potential funding sources for the repairs.

## **BACKGROUND**

As a result of discussions with representatives of East Union Township Supervisors, it was determined that roadways listed below within East Union needed evaluation. These roadways consist of mostly dirt and minimally paved roads that need improvements to improve rideability and to reduce yearly maintenance costs. All roads were visited to evaluate existing conditions and identify potential pavement repairs.

## **ROADWAY EVALUATION**

The sections of roadways that were evaluated and our observations of each are as follows. An overview of the indicated roads and photos of existing conditions are included in the appendix.

1. **Portion of Elm Street.** (350 LF x 20 FT) – This roadway is a minimally paved road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
2. **Pole Road Patch (T-876)** (600 SF – 30 FT x 20 FT) – This roadway needs a patch due to a drainage cross pipe installation.
3. **Along Green Mountain Road (T-878) at Walnut Street** (1800 SF – Two areas of 30 FT x 30 FT each) – These intersections require milling & overlay to improve rideability and reduce yearly maintenance costs.
4. **Old Mill Road (T-454) from Bridge to Green Mountain Road** (2250 LF x 18 FT) – This roadway is a minimally paved road in need of a durable pavement surface and drainage to improve rideability and reduce yearly maintenance costs.
5. **2<sup>nd</sup> Boulevard (T-870) from Pole Road to Park Avenue** (1400 LF x 18 FT) – This roadway is a minimally paved road in need of a durable pavement surface and drainage to improve rideability and reduce yearly maintenance costs.
6. **Park Avenue (T-867)** (400 LF x 18 FT) – This roadway is a minimally paved road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
7. **Spruce Street (T-872) from 2<sup>nd</sup> Boulevard to 4<sup>th</sup> Boulevard** (400 LF x 18 FT) – This roadway is a minimally paved road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.
8. **Pine Street (T-855) from SR 924 to 4<sup>th</sup> Boulevard** (200 LF x 18 FT) - This roadway is a minimally paved road in need of a durable pavement surface to improve rideability and reduce yearly maintenance costs.

## **ROADWAY EVALUATION CONCLUSION**

The observations in this report provide a comprehensive overview of the conditions of the indicated roadways within East Union. Recommendations are intended to provide solutions to many recurring problems along the roadway. This report can be utilized for East Union Township Supervisors' decision-making process on roadway improvements.

## **ROAD PROJECT RECOMMENDATIONS**

The roadways indicated below have been prioritized by their need for improvements. All improvements to meet requirements for liquid fuels roadway requirements. Suggested recommendations are as follows:

1. **Portion of Elm Street**. (350 LF x 20 FT) – Full Depth Pavement Replacement: 6” Subbase, 4” Base, 1 ½” Overlay. Confirmation of a 33’ Right-of-Way with a 80’ Diameter cul-de-sac turn-around prior to the Township Building parking lot.
2. **Pole Road Patch (T-876)** (600 SF – 30 FT x 20 FT) – Full Depth Pavement Replacement: 6” Subbase, 4” Base, 1 ½” Overlay (Confirmed 33’ ROW as shown on the attached liquid fuels map)
3. **Along Green Mountain Road (T-878) at Walnut Street** (1800 SF – Two areas of 30 FT x 30 FT each) – Mill & Overlay. (Confirmed 33’ ROW as shown on the attached liquid fuels map)
4. **Old Mill Road (T-454) from Bridge to Green Mountain Road** (2250 LF x 18 FT) – Full Depth Pavement Replacement (18’ wide): 6” Subbase, 4” Base, 1 ½” Overlay and Installation of inlets, pipes, and swale improvements (Confirmed 33’ ROW as shown on the attached liquid fuels map)
5. **2<sup>nd</sup> Boulevard (T-870) from Pole Road to Park Avenue** (1400 LF x 18 FT) – Milling, Binder Course, & Overlay and Installation of inlets and pipes. (Confirmed 33’ ROW as shown on the attached liquid fuels map)
6. **Park Avenue (T-867)** (400 LF x 18 FT) – Milling, Binder Course, & Overlay (Confirmed 33’ ROW as shown on the attached liquid fuels map)
7. **Spruce Street (T-872) from 2<sup>nd</sup> Boulevard to 4<sup>th</sup> Boulevard** (400 LF x 18 FT) – Milling, Binder Course, & Overlay (Confirmed 33’ ROW as shown on the attached liquid fuels map)
8. **Pine Street (T-855) from SR 924 to 4<sup>th</sup> Boulevard** (200 LF x 18 FT) - Milling, Binder Course, & Overlay (Confirmed 33’ ROW and on liquid fuels map)

Proposed roadway improvement repair areas shown on aerials and cost estimates are included in the appendix. A Pennsylvania One-Call ticket will be completed to identify any utilities in the evaluated locations once the Supervisors authorize the project. Responses from utility companies and a notification letter will be sent to all utilities included in the appendix.

## **LIQUID FUELS ROADWAY REQUIREMENTS**

To qualify for Liquid Fuels Funds, roadways must meet the following notable requirements:

- 33' dedicated right-of-way (ROW) by Ordinance
- 16' cartway paved or unpaved
- 80' diameter cul-de-sac at dead ends
- Connection to another public roadway

## **UTILITY CUT AND EXCAVATION ORDINANCE RECOMMENDATIONS**

Utilities will be contacted upon approval of the project by East Union Township Supervisors.

## **POTENTIAL FUNDING SOURCES**

Due to the scope of work described in the project recommendations, it is anticipated that outside sources of funding will be required. These may include:

1. **CFA Multimodal Transportation Fund** – These funds are administered by the PA-DCED. The grant award ranges from \$100,000 to \$3 million. A 30% local match is typically required. Applications are due between March 1<sup>st</sup> and July 31<sup>st</sup> of each year.
2. **PennDOT Multimodal Transportation Fund** – These funds are administered separately from the CFA MTF by PennDOT. The grant award ranges from \$100,000 to \$3 million. A 30% local match is required and may include general funds, liquid fuels tax, Act 13 impact fees, and other statutorily allocated municipal fees/taxes. Applications are usually due in October of each year.
3. **Transportation Alternatives** – This program provides funding for sidewalks, walking lanes, streetscapes, and other projects defined as transportation alternatives. It is not applicable to roadway construction. Grant awards range from \$50,000 to \$1 million. Application deadline varies from year to year.
4. **Other Small Programs** – Various annual programs announced each year. These funding sources provide small awards and are typically not practical for large scale projects.
5. **PIB Loan** – Pennsylvania Infrastructure Bank Loan. This is a low interest loan that can be paid back over a period of 10 years with Liquid Fuels funds.

**COST ESTIMATE SUMMARY**

The following table provides an overview of the total cost for each roadway. Detailed cost breakdowns are provided in the appendix.

<b>SUMMARY OF OVERALL COSTS</b>	
<b>Elm Street</b>	<i>\$44,000.00</i>
<b>Pole Road</b>	<i>\$6,000.00</i>
<b>Along Green Mountain Road at Walnut Street</b>	<i>\$7,000.00</i>
<b>Old Mill Road</b>	<i>\$375,000.00</i>
<b>2<sup>nd</sup> Boulevard</b>	<i>\$228,000.00</i>
<b>Park Avenue</b>	<i>\$36,000.00</i>
<b>Spruce Street</b>	<i>\$36,000.00</i>
<b>Pine Street</b>	<i>\$18,000.00</i>
<b><u>TOTAL</u></b>	<b>\$750,000.00</b>

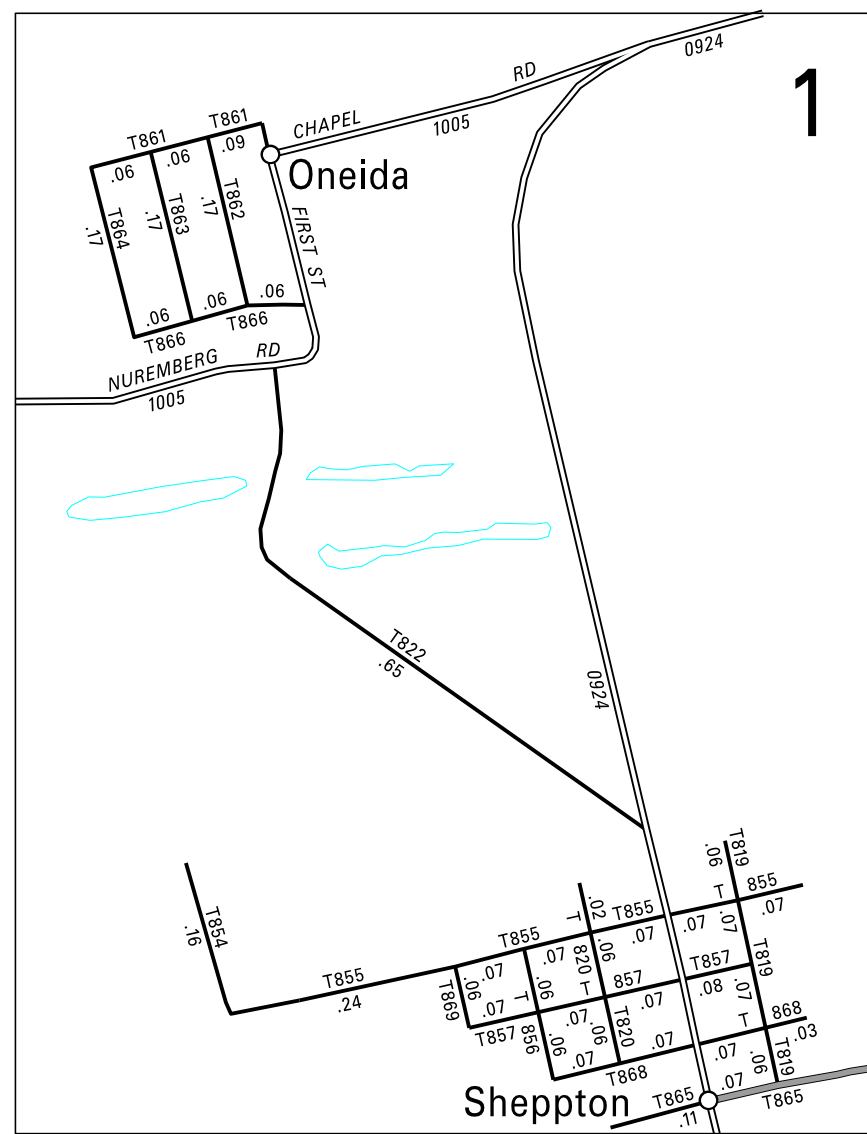
## OVERVIEW OF ROADWAYS

TOTAL MILES	
Township Road System	22.89*
State Highway System	13.44
Total	36.33

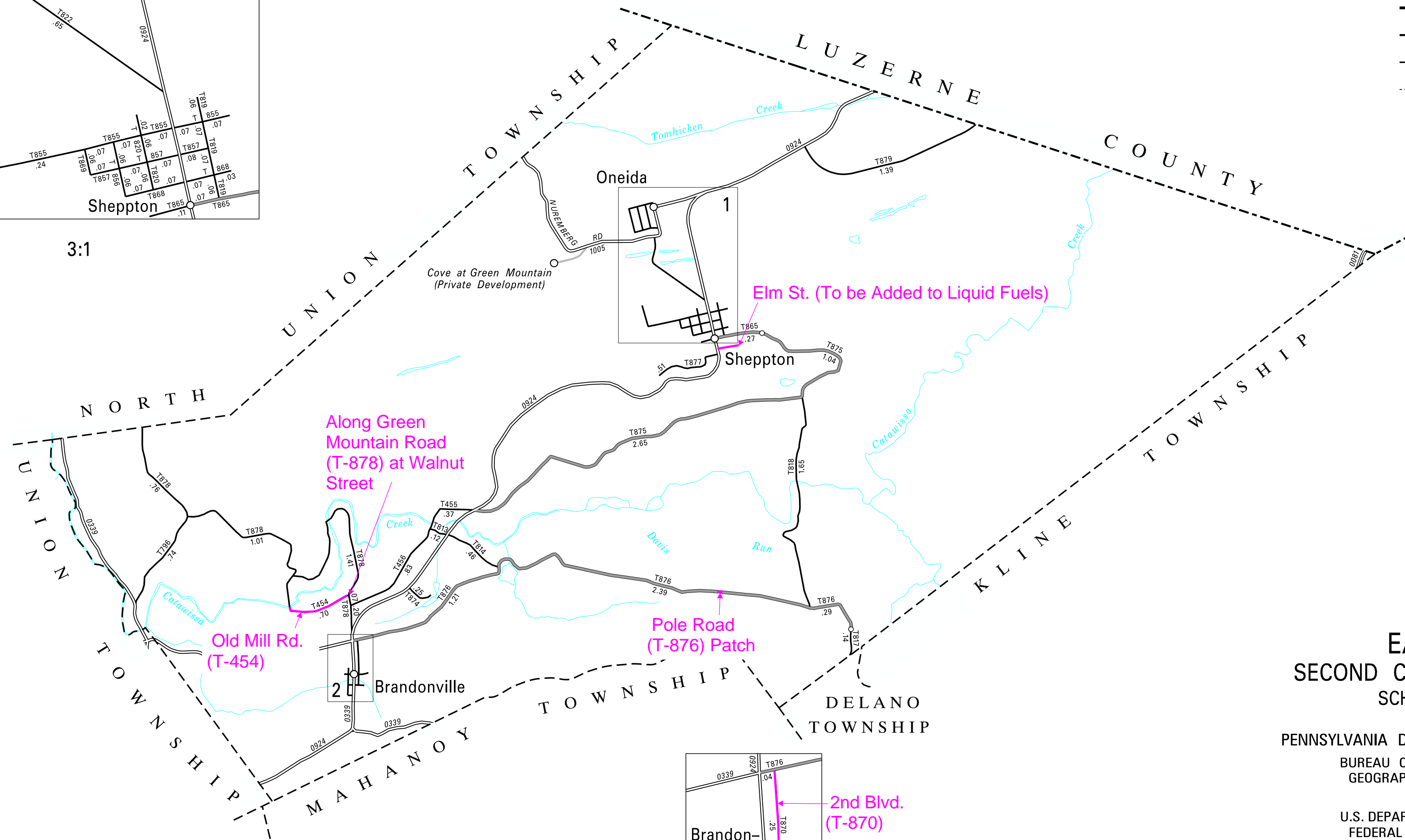
\* Includes ACT 32 Turnback Mileage of 7.96

**LEGEND**

- LIMITED ACCESS HIGHWAY
- STATE ROUTE AND NUMBER
- STATE MAINTAINED BRIDGE ON TOWNSHIP ROAD
- TOWNSHIP ROAD, NUMBER AND SEGMENT LENGTH IN MILES
- IMPASSABLE TOWNSHIP ROAD
- TURNBACK TOWNSHIP ROAD
- OTHER ROAD
- RAILROAD (IN SERVICE)
- RAILROAD ABANDONED (TRACK RETAINED)
- STATE BOUNDARY
- COUNTY BOUNDARY
- TOWNSHIP BOUNDARY
- CITY OR BOROUGH BOUNDARY
- MUNICIPAL BUILDING
- SPLIT MILEAGE BETWEEN MUNICIPALITIES



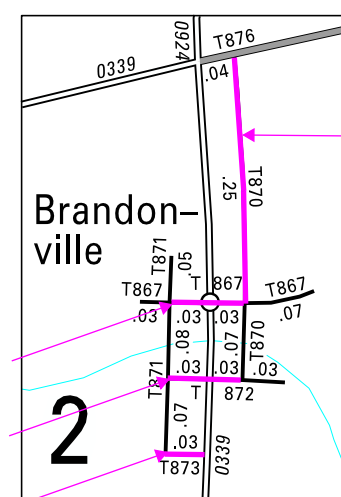
3:1



- 454 OLD MILL RD
- 455 FOOSE LA
- 456 TRAILER RD
- 796 KUNKELS HILL RD
- 813 DOMBROWSKI LA
- 814 PUMPING STATION RD
- 817 PARK PLACE
- 818 GIRARD MANOR RD
- 819 SHEPP ST
- 820 FRANKLIN ST
- 822 SCHOOL HOUSE RD
- 854 CEMETERY RD
- 855 PINE ST
- 856 WASHINGTON ST
- 857 MARKET ST
- 861 NORTH ST
- 862 SECOND ST
- 863 THIRD ST
- 864 FOURTH ST
- 865 BRANDON ST
- 866 SOUTH ST
- 867 PARK AV
- 868 OAK ST
- 869 DEFRAIN ST
- 870 SECOND BLVD
- 871 FOURTH BLVD
- 872 SPRUCE ST
- 873 IRON ST
- 874 SWANKS GROVE RD
- 875 PHINEYVILLE RD
- 876 POLE RD
- 877 MOUNTAIN DR
- 878 GREEN MOUNTAIN RD
- 879 GREEN MOUNTAIN RD (HUMBOLDT)

COPIES OF THIS MAP ARE AVAILABLE AT NOMINAL COST CONTACT:

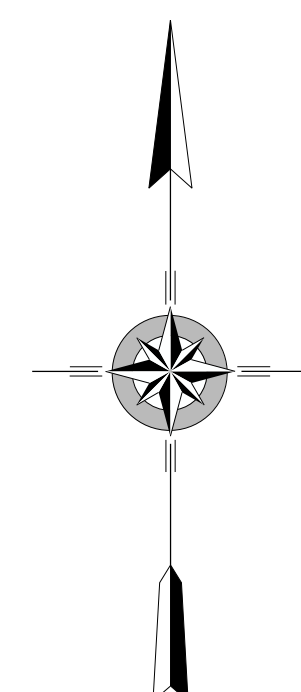
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION  
SALES STORE  
P.O. BOX 3451  
HARRISBURG, PENNSYLVANIA 17105-3451  
TELEPHONE: (717)787-6746



3:1

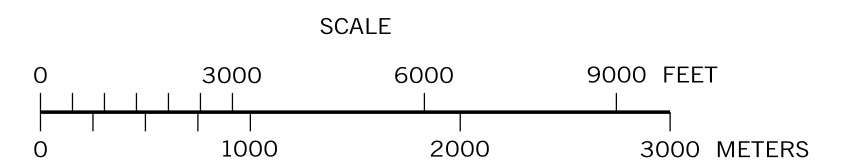
- Park Ave. (T-867)
- Spruce St. (T-872)
- Pine St. (T-855)

- 2nd Blvd. (T-870)



**EAST UNION  
SECOND CLASS TOWNSHIP MAP  
SCHUYLKILL COUNTY**

PREPARED BY THE  
**PENNSYLVANIA DEPARTMENT OF TRANSPORTATION**  
BUREAU OF PLANNING AND RESEARCH  
GEOGRAPHIC INFORMATION DIVISION  
IN COOPERATION WITH THE  
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
MUNICIPAL CODE 53 209  
THIS MAP IS PUBLISHED AS A SUPPLEMENTAL  
DOCUMENTATION OF LIQUID FUELS TAX FUND MILEAGES  
REVISED PER FORM 990 DATED 12-7-01

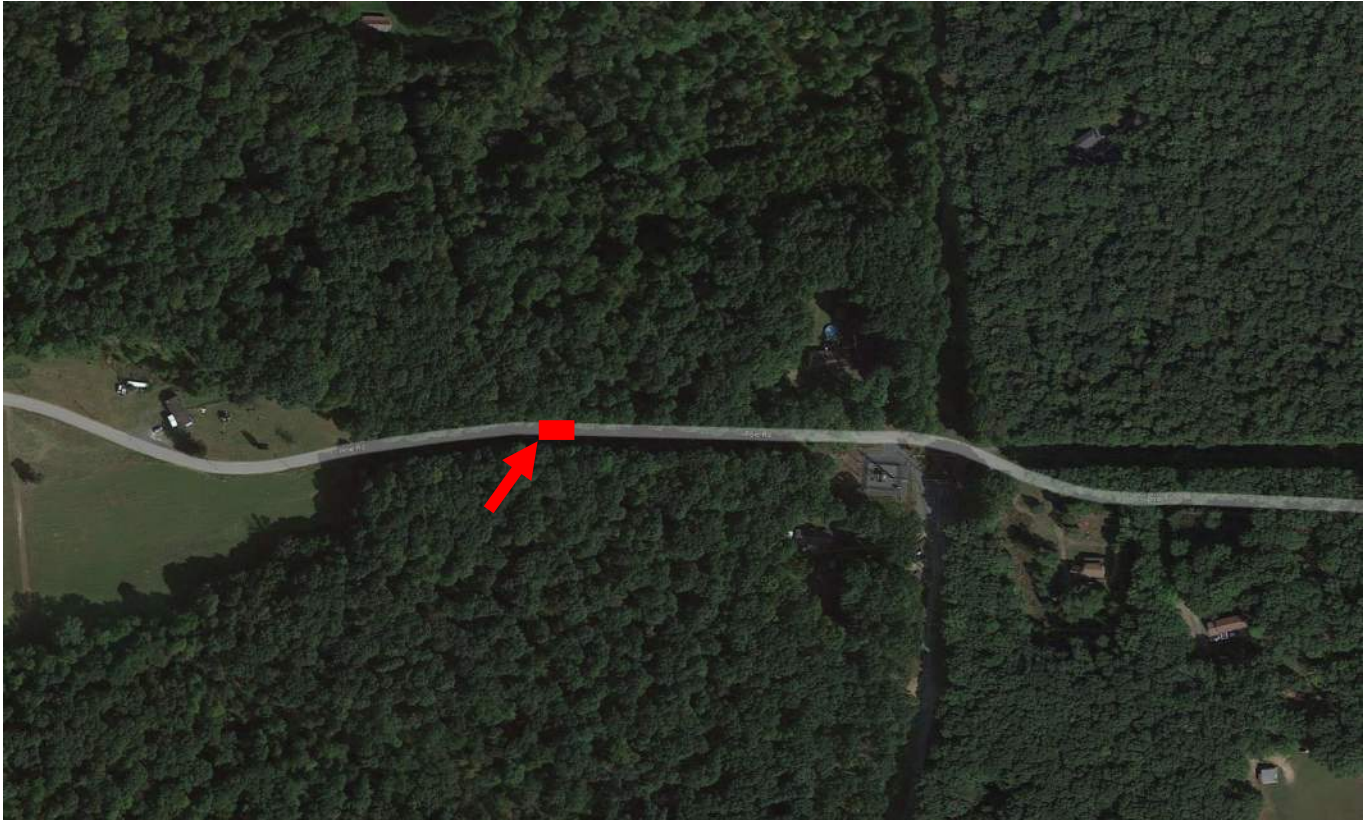




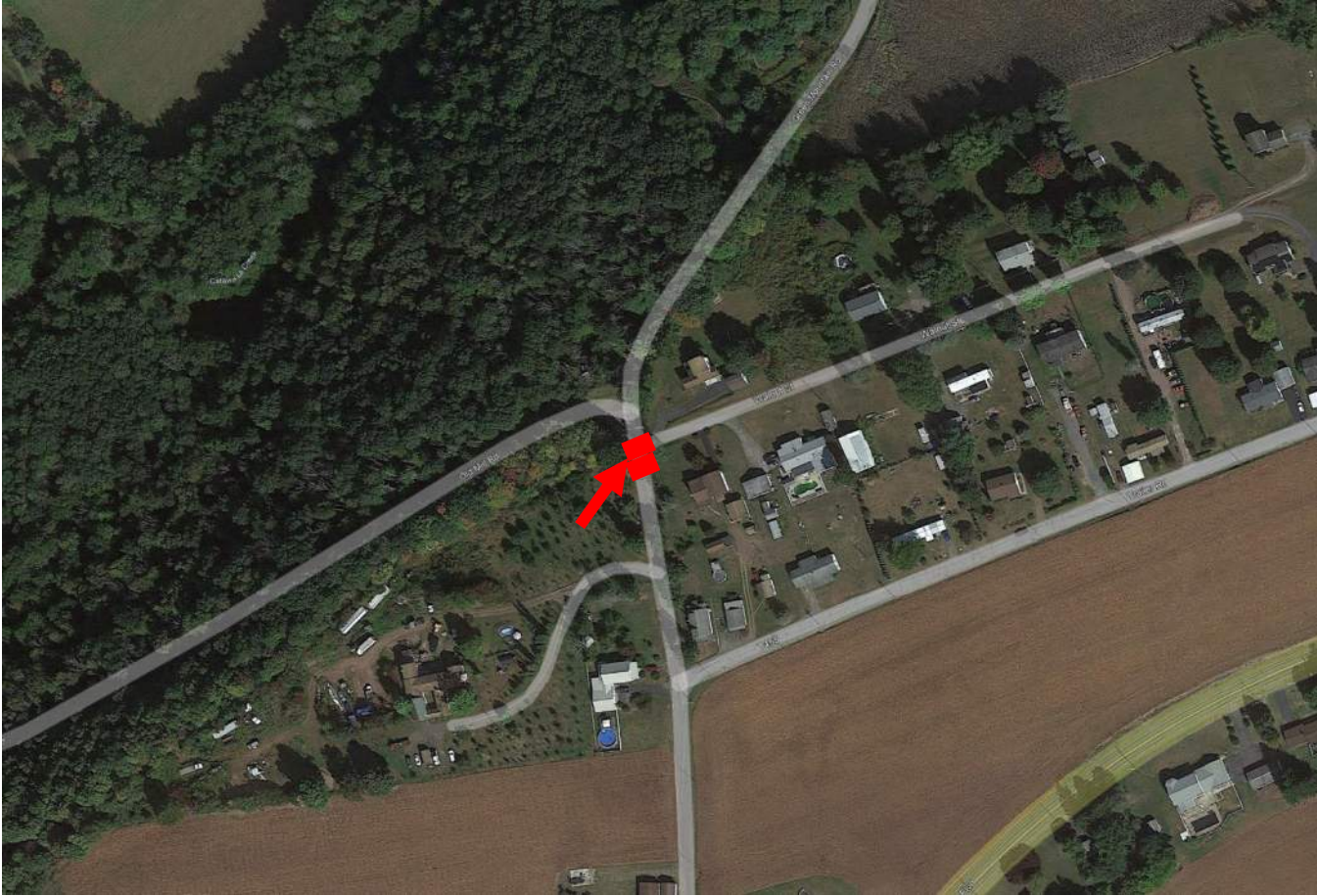
**PHOTOS OF EXISTING CONDITIONS**



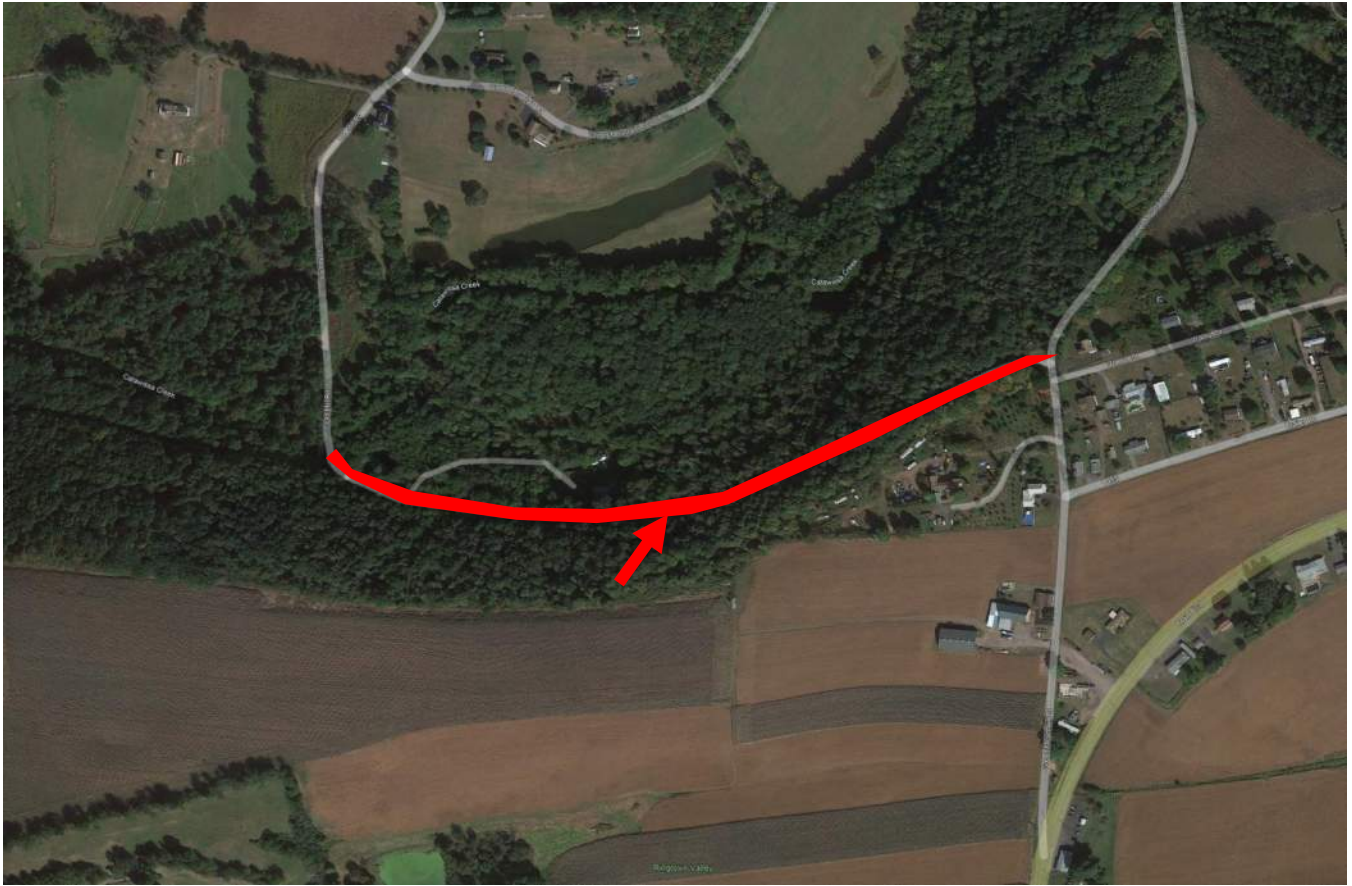
**East Elm Street looking East from SR 924**



**Pole Road**



**Along Green Mountain Road at Walnut Street**



**Old Mill Road**



**2<sup>nd</sup> Boulevard looking South from Pole Road**



**Park Avenue looking West from SR 924 (other side similar)**



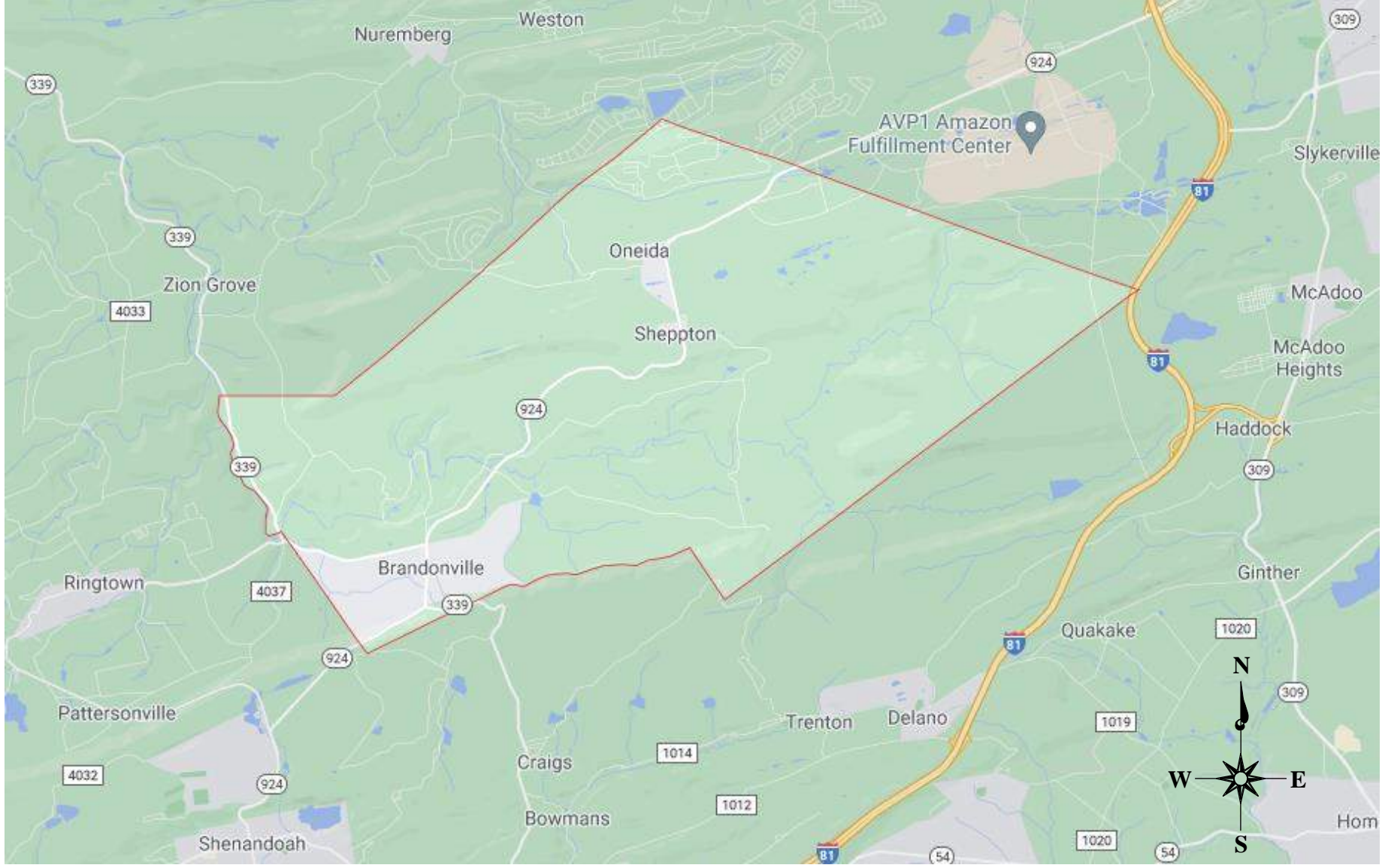
**Spruce Street looking West from SR 924 (other side similar)**





**Pine Street looking west from SR 924**

## REPAIR MAPS



# East Union Township Road Evaluation 2024

East Union Township,  
Schuylkill County, Pennsylvania



Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

Dwn  
PPC

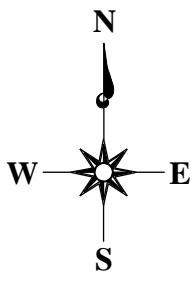
Scale  
NTS

PRJ #  
32098.02

**Location Map**

FIGURE

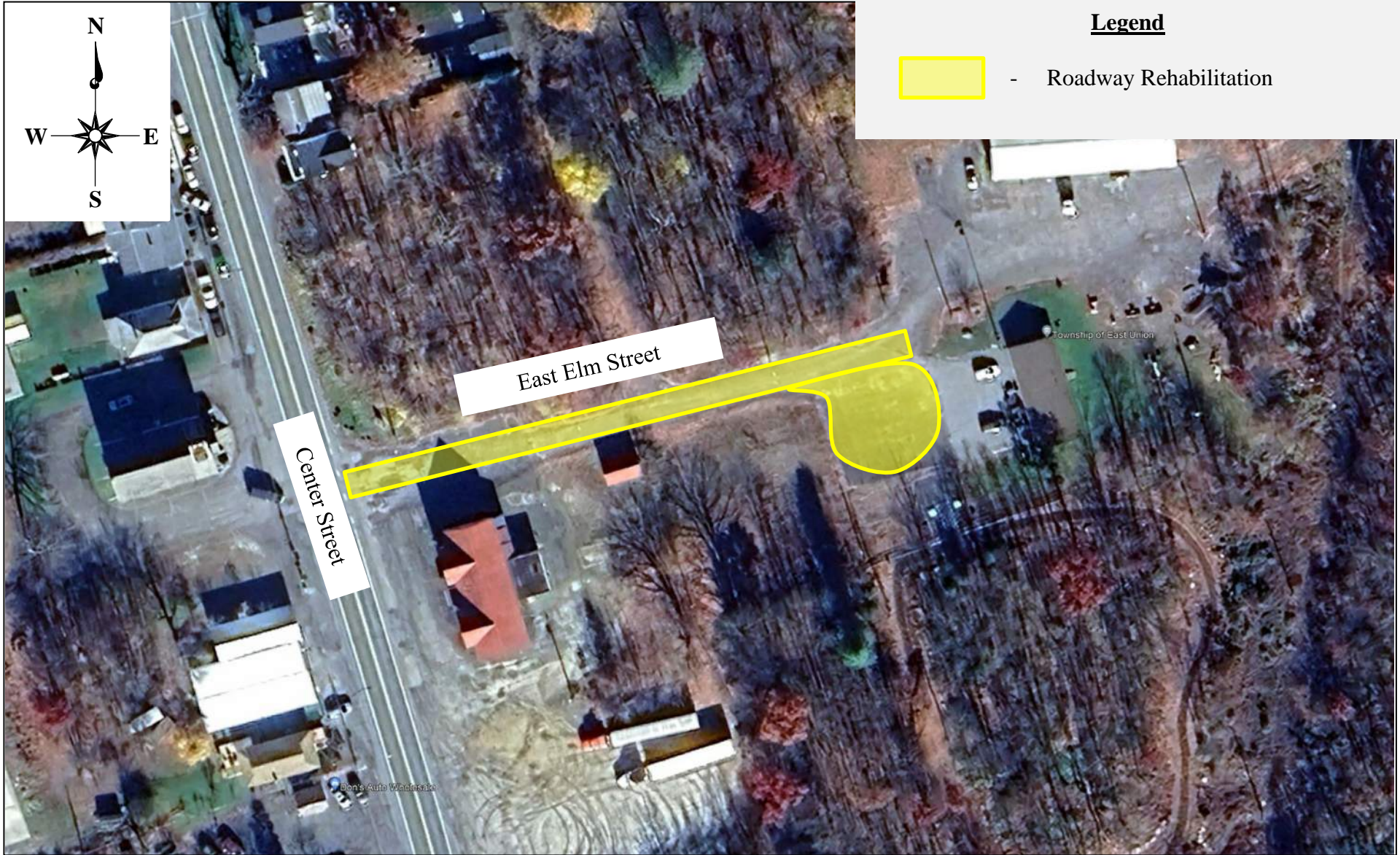
**1**



**Legend**



- Roadway Rehabilitation



# East Union Township Road Evaluation 2024

East Union Township,  
Luzerne County, Pennsylvania



**benesch**

Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

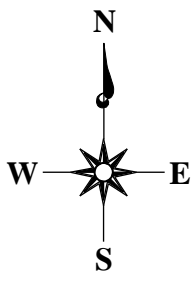
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PRJ #  
32098.02

**East Elm**

FIGURE  
**2**



**Legend**



- Roadway Rehabilitation



Pole Road



# East Union Township Road Evaluation 2024

East Union Township,  
Luzerne County, Pennsylvania



**benesch**

Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

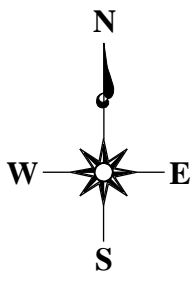
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PPC

Scale  
NTS

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**Pole Road**

FIGURE  
**3**



Legend



- Roadway Rehabilitation



# East Union Township Road Evaluation 2024

East Union Township,  
Luzerne County, Pennsylvania



Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
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Date  
2/22/2024

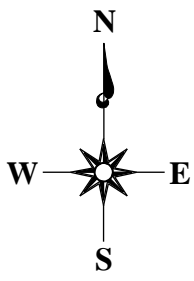
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Scale  
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PRJ #  
32098.02

## Green Mountain

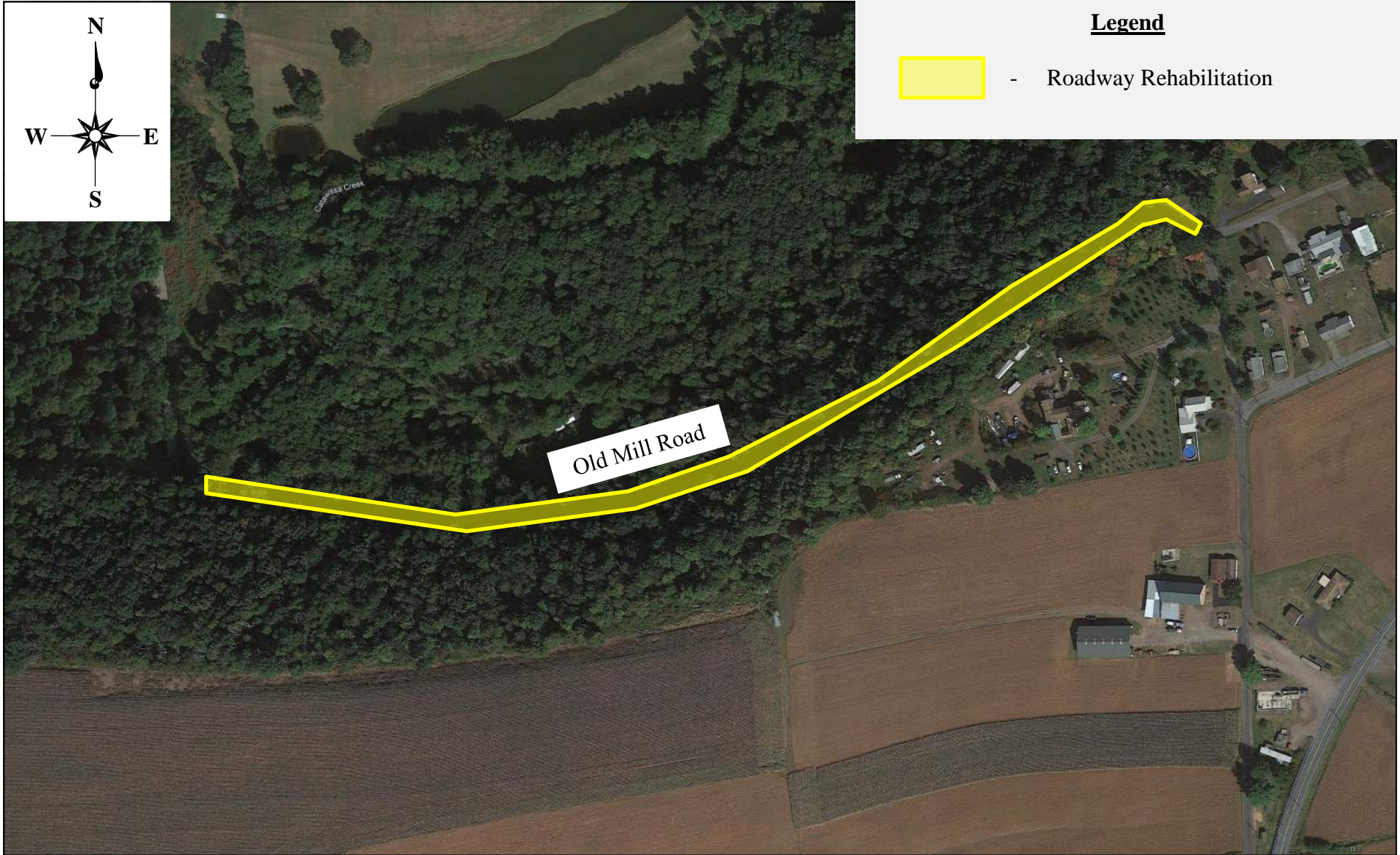
FIGURE  
**4**



**Legend**



- Roadway Rehabilitation



**East Union Township  
Road Evaluation 2024**

East Union Township,  
Luzerne County, Pennsylvania



Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

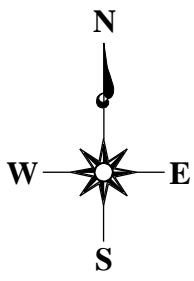
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32098.02

**Old Mill**

FIGURE  
**5**



Pole Road

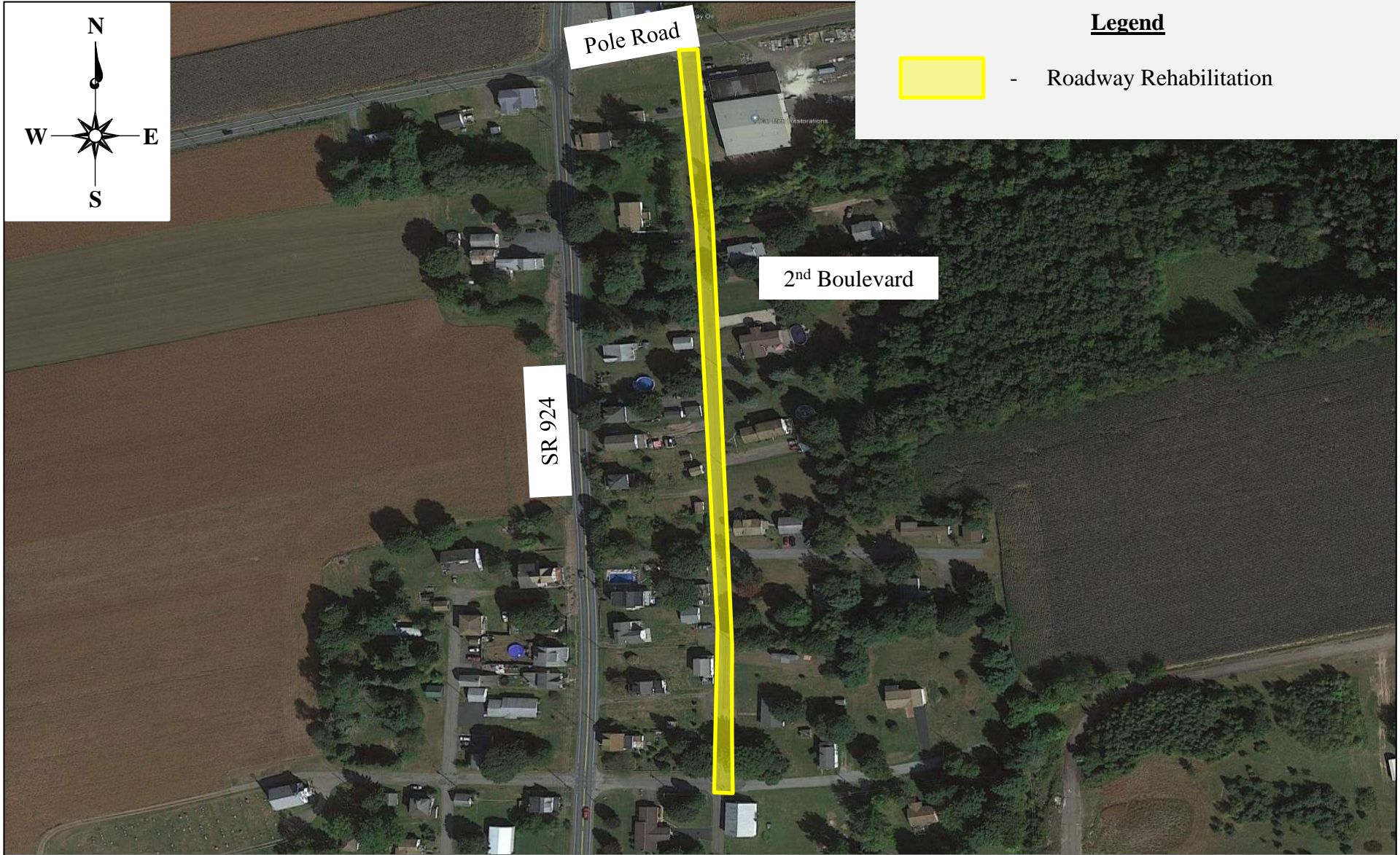
Legend



- Roadway Rehabilitation

2<sup>nd</sup> Boulevard

SR 924



# East Union Township Road Evaluation 2024

East Union Township,  
Luzerne County, Pennsylvania



**benesch**

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Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

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PPC

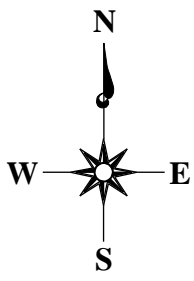
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PRJ #  
32098.02

**2<sup>nd</sup> Blvd**

FIGURE  
**6**

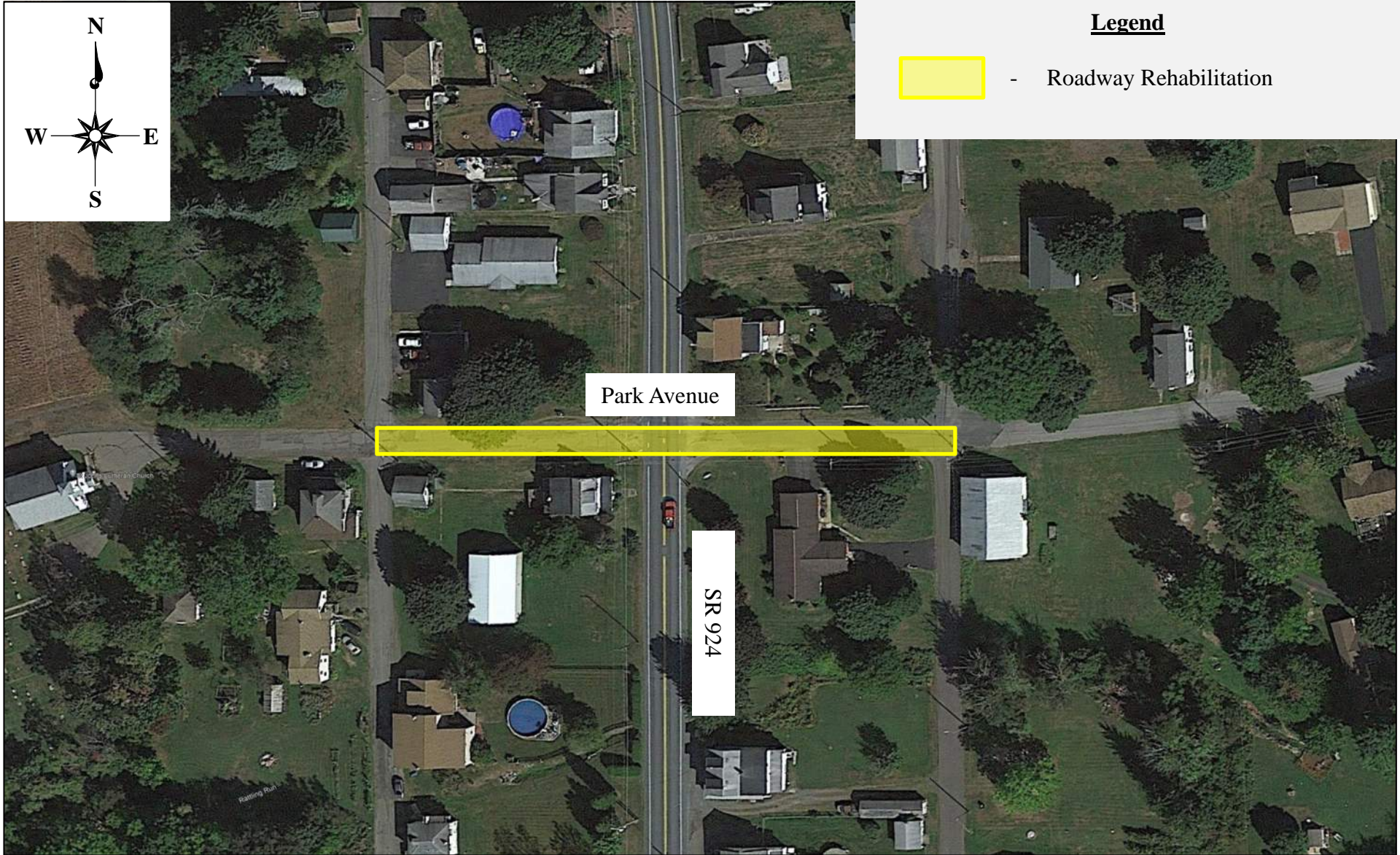




Legend



- Roadway Rehabilitation



East Union Township  
Road Evaluation 2024

East Union Township,  
Luzerne County, Pennsylvania



Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

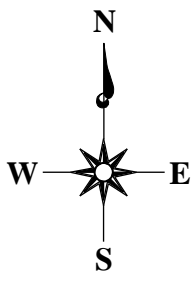
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PRJ #  
32098.02

**Park Avenue**

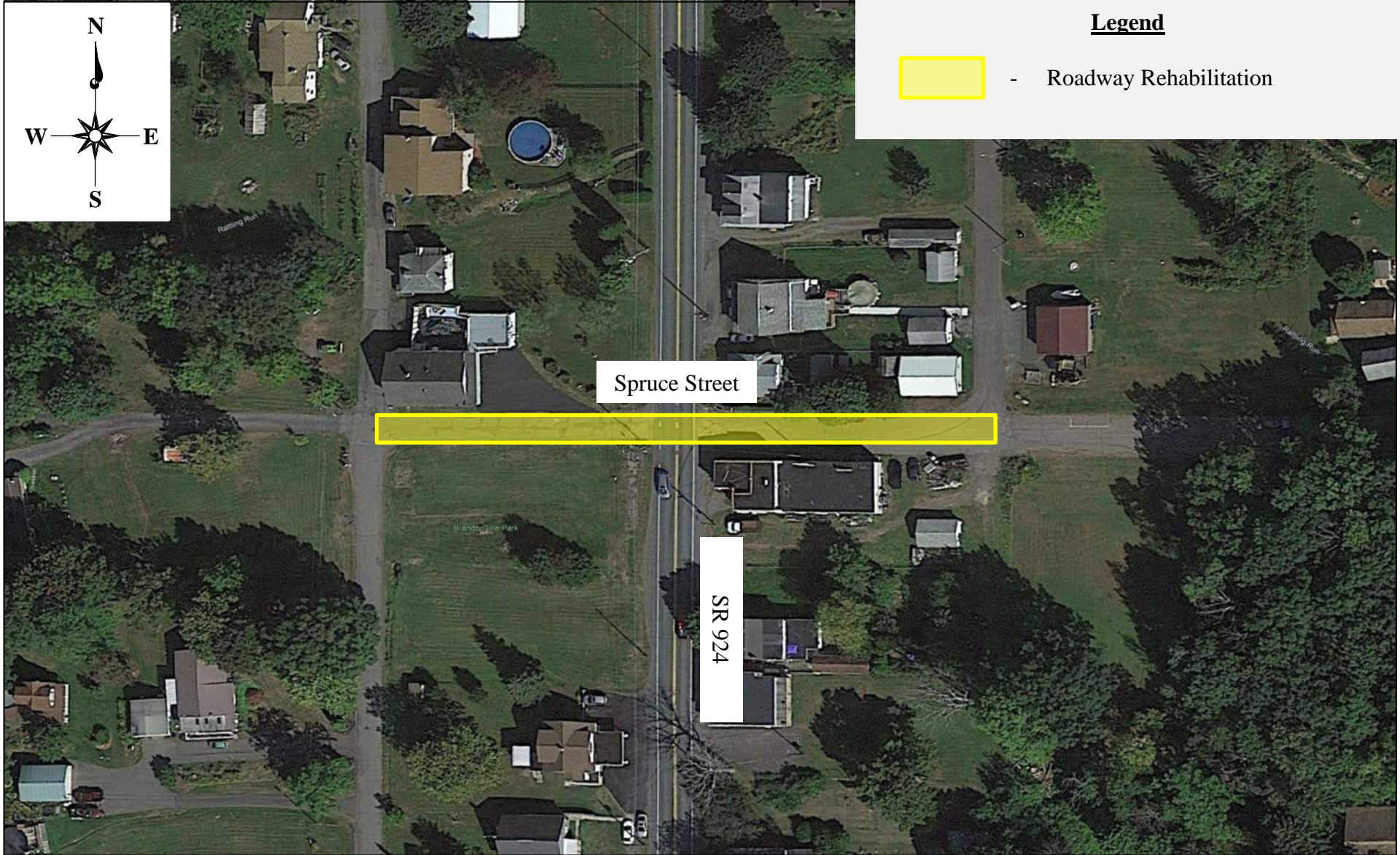
FIGURE  
**7**



**Legend**



- Roadway Rehabilitation



# East Union Township Road Evaluation 2024

East Union Township,  
Luzerne County, Pennsylvania



Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

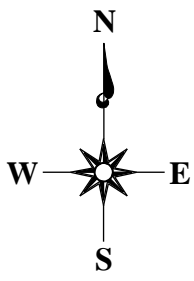
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32098.02

**Spruce Street**

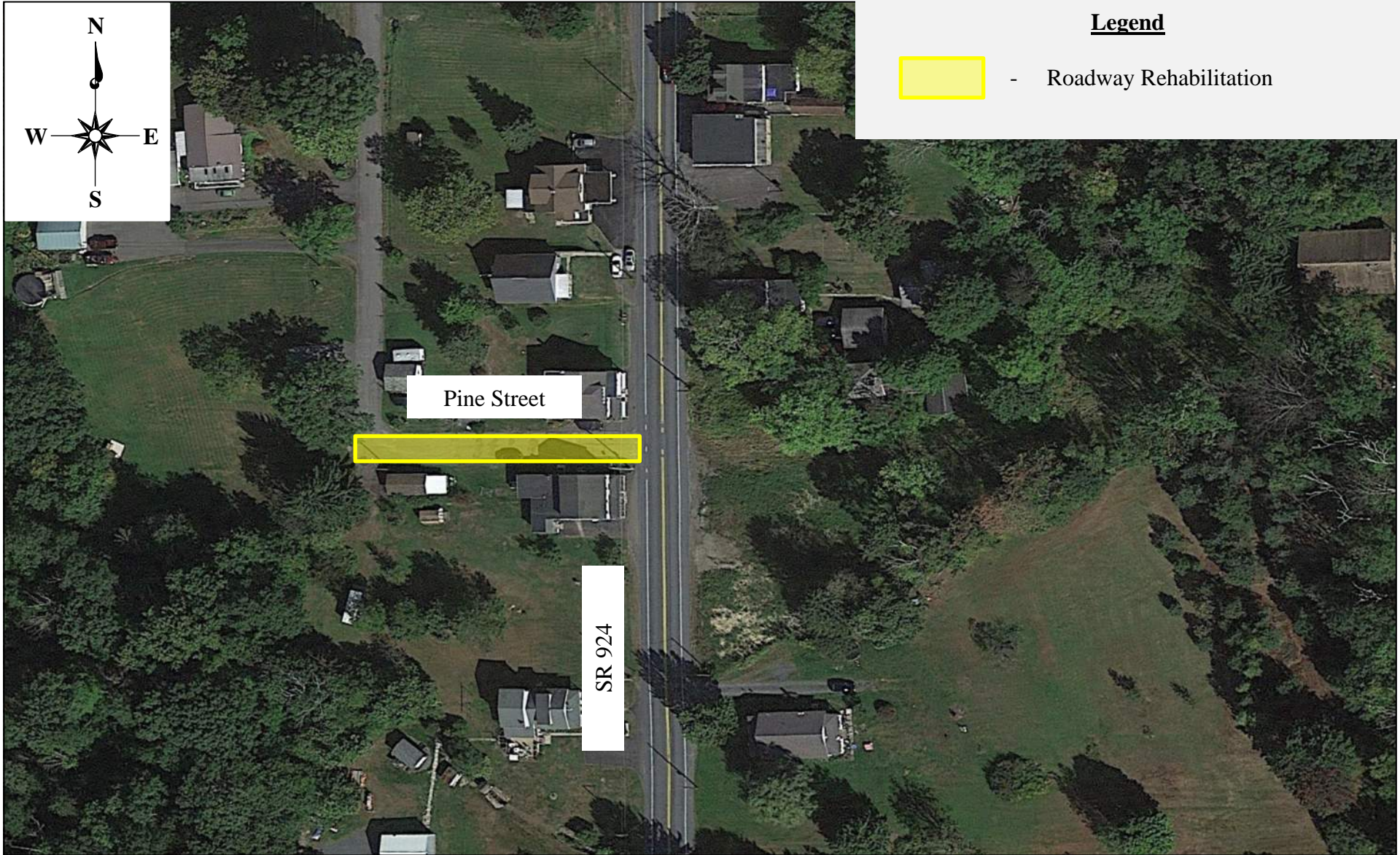
FIGURE  
**8**



**Legend**



- Roadway Rehabilitation



Pine Street

SR 924

**East Union Township  
Road Evaluation 2024**

East Union Township,  
Luzerne County, Pennsylvania



Alfred Benesch & Company  
Wilkes Barre, Pennsylvania  
(570) 914-9030

Date  
2/22/2024

Dwn  
PPC

Scale  
NTS

PRJ #  
32098.02

**Pine Street**

FIGURE  
**9**

## COST ESTIMATE BREAKDOWN

SUMMARY OF OVERALL COSTS	
Elm Street	\$ 44,000.00
Pole Road	\$ 6,000.00
Intersection of Walnut St. & Green St.	\$ 7,000.00
Old Mill Road	\$ 375,000.00
2nd Boulevard	\$ 228,000.00
Park Avenue	\$ 36,000.00
Spruce Street	\$ 36,000.00
Pine Street	\$ 18,000.00
Total	\$ 750,000.00

**Say \$ 750,000.00**



**East Union Township (Luzerne County)**  
**PIB Loan Roadway Paving - 2024**  
**\$750,000.00**

3. Along Green Mountain Road at Walnut Street (1800 SF - Two Areas 30 FT x 30 FT each)				
Item No.	Bid	Unit	Item Title	Total Amount (\$)
	200	SY	Milling - 2" Depth	\$ 8.00    \$ 1,600.00
	200	SY	Overlay - 2" Depth	\$ 20.00    \$ 4,000.00
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
			<b>Subtotal</b>	\$ 5,600.00
			<b>Engineering 10%</b>	\$ 560.00
			<b>Inspection 5%</b>	\$ 280.00
			<b><u>2024 COST ESTIMATE</u></b>	<b>\$ 6,440.00</b>
				<b>SAY      \$    7,000.00</b>

4. Old Mill Road from Bridge to Green Mountain Road (2250 LF x 18 FT)				
Item No.	Bid	Unit	Item Title	Total Amount (\$)
	4500	SY	Milling - 3" Depth	\$ 9.00    \$ 40,500.00
	4500	SY	Subbase - 4" Depth	\$ 16.00    \$ 72,000.00
	4500	SY	Base - 4" Depth	\$ 25.00    \$ 112,500.00
	4500	SY	Overlay - 1 1/2" Depth	\$ 14.00    \$ 63,000.00
	300	CY	Rock, Class R-4 - Swales	\$ 65.00    \$ 19,500.00
	6	CY	Rock, Class R-5 - Outlets	\$ 70.00    \$ 420.00
	3	EACH	Inlets	\$ 3,500.00    \$ 10,500.00
	150	LF	18" Plastic Pipe	\$ 50.00    \$ 7,500.00
				\$ -
				\$ -
			<b>Subtotal</b>	\$ 325,920.00
			<b>Engineering 10%</b>	\$ 32,592.00
			<b>Inspection 5%</b>	\$ 16,296.00
			<b><u>2024 COST ESTIMATE</u></b>	<b>\$ 374,808.00</b>
				<b>SAY      \$    375,000.00</b>

**East Union Township (Luzerne County)**  
**PIB Loan Roadway Paving - 2024**  
**\$750,000.00**

5. 2nd Boulevard from Pole Road to Park Avenue (1400 LF x 18 FT)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	2800	SY	Milling - 1 1/2" Depth	\$ 7.00	\$ 19,600.00
	2800	SY	Binder Course - 2" Depth	\$ 18.00	\$ 50,400.00
	2800	SY	Overlay - 1 1/2" Depth	\$ 14.00	\$ 39,200.00
	6	EACH	Inlets	\$ 3,500.00	\$ 21,000.00
	1500	LF	15" Plastic Pipe	\$ 45.00	\$ 67,500.00
					\$ -
					\$ -
					\$ -
					\$ -
			<b>Subtotal</b>	\$	<b>197,700.00</b>
			<b>Engineering 10%</b>	\$	<b>19,770.00</b>
			<b>Inspection 5%</b>	\$	<b>9,885.00</b>
			<b><u>2024 COST ESTIMATE</u></b>	\$	<b>227,355.00</b>
			<b>SAY</b>	<b>\$</b>	<b>228,000.00</b>

6. Park Avenue from 2nd Boulevard to 4th Boulevard (400 LF x 18 FT)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	800	SY	Milling - 1 1/2" Depth	\$ 7.00	\$ 5,600.00
	800	SY	Binder Course - 2" Depth	\$ 18.00	\$ 14,400.00
	800	SY	Overlay - 1 1/2" Depth	\$ 14.00	\$ 11,200.00
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
			<b>Subtotal</b>	\$	<b>31,200.00</b>
			<b>Engineering 10%</b>	\$	<b>3,120.00</b>
			<b>Inspection 5%</b>	\$	<b>1,560.00</b>
			<b><u>2024 COST ESTIMATE</u></b>	\$	<b>35,880.00</b>
			<b>SAY</b>	<b>\$</b>	<b>36,000.00</b>



**East Union Township (Luzerne County)**  
**PIB Loan Roadway Paving - 2024**  
**\$750,000.00**

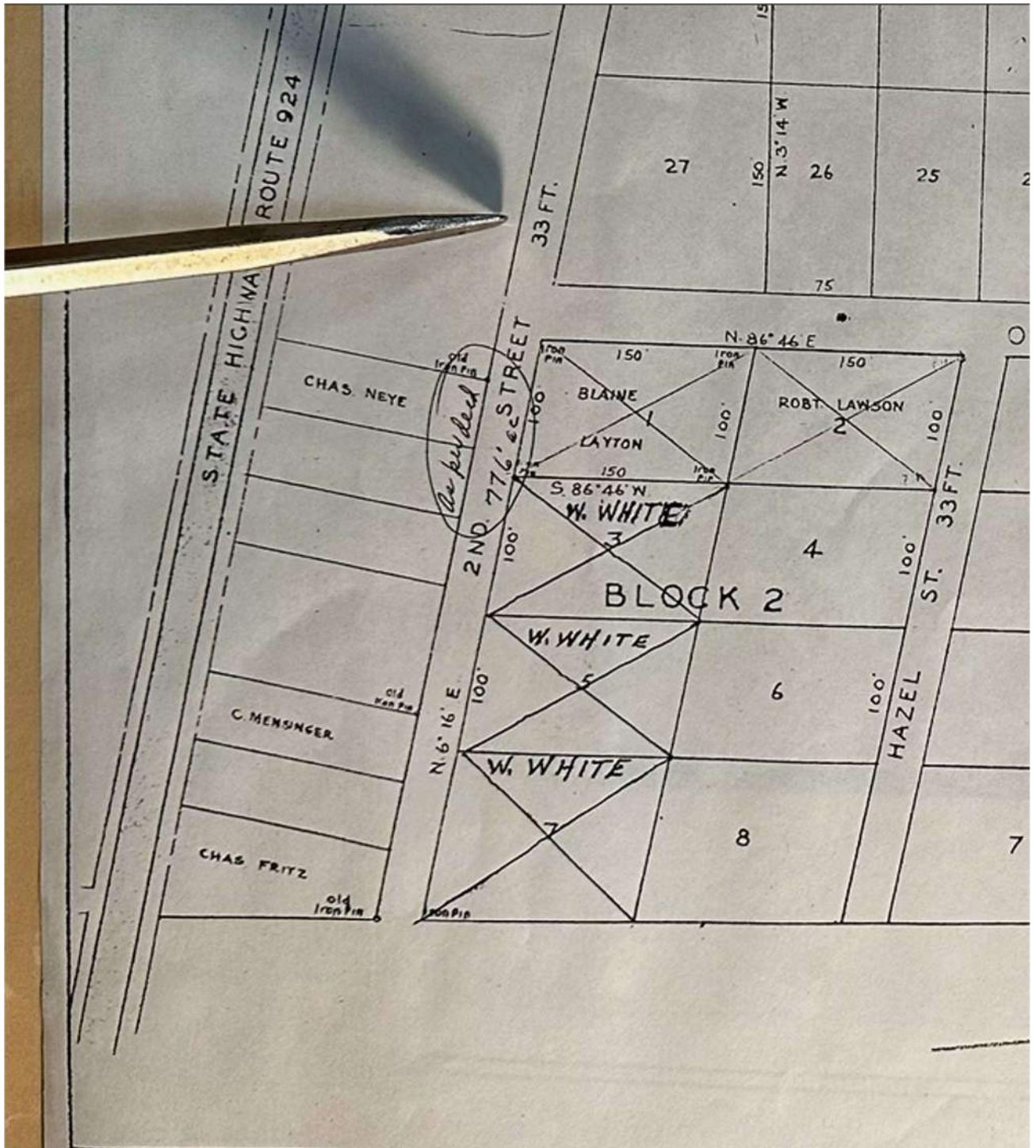
7. Spruce Street from 2nd Boulevard to 4th Boulevard (400 LF x 18 FT)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	800	SY	Milling - 1 1/2" Depth	\$ 7.00	\$ 5,600.00
	800	SY	Binder Course - 2" Depth	\$ 18.00	\$ 14,400.00
	800	SY	Overlay - 1 1/2" Depth	\$ 14.00	\$ 11,200.00
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
<b>Subtotal</b>				\$	31,200.00
<b>Engineering 10%</b>				\$	3,120.00
<b>Inspection 5%</b>				\$	1,560.00
<b>2024 COST ESTIMATE</b>				\$	<b>35,880.00</b>

**SAY \$ 36,000.00**

8. Pine Street from SR 924 to 4th Boulevard (200 LF x 18 FT)					
Item No.	Bid	Unit	Item Title	Unit Price (\$)	Total Amount (\$)
	400	SY	Milling - 1 1/2" Depth	\$ 7.00	\$ 2,800.00
	400	SY	Binder Course - 2" Depth	\$ 18.00	\$ 7,200.00
	400	SY	Overlay - 1 1/2" Depth	\$ 14.00	\$ 5,600.00
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
					\$ -
<b>Subtotal</b>				\$	15,600.00
<b>Engineering 10%</b>				\$	1,560.00
<b>Inspection 5%</b>				\$	780.00
<b>2024 COST ESTIMATE</b>				\$	<b>17,940.00</b>

**SAY \$ 18,000.00**

**2<sup>nd</sup> BOULEVARD 33' RIGHT-OF-WAY CONFIRMATION**



2<sup>ND</sup> BOULEVARD 33' RIGHT-OF-WAY CONFIRMATION

## **Project Impacts**

### *10 Congestion Reduction and Environmental Impacts*

Improvements to roads will create a smoother driving experience which will lead to a decrease in gas consumption and greenhouse gas emissions. The decrease in greenhouse gas emissions will be present for as long into the future as the roadway improvements are functional, compounding the environmental benefits year after year. These improvements will also increase the capacity of each road, decreasing congestion.

## **Project Impacts**

### *11 Safety Benefits*

The proposed improvements will provide better rideability along several roads leading to safer travel. The improved durability of the impacted roads will decrease the occurrences of deterioration, increasing the ease of travel. These improvements will also accommodate improved traffic flow, reducing the number of crashes.

## **Project Impacts**

### *12 Economic Benefits*

This project will create about 15 short term jobs in the township. The Township will save on yearly maintenance costs caused by the lack of adequate paving on several roadways. The improved infrastructure will improve the circumstances for local businesses.