



SR 4004, Sec. MTF MPMS #105077

Park Ave, Eagleville Rd, and
Crawford Rd Project Status Update

February 3, 2022

Status Update Overview

- **Where We've Been in the last 12 Months**
 - Project Improvements Overview
 - Final Design – Approximately 85-90% Complete
 - Right of Way Acquisitions – 100% Complete (11/2021)
- **Where We're Going and How Are We Getting There?**
 - Right of Way Clearance – Recording of R/W Plan
 - Utility Coordination and Clearance – ONGOING but substantial progress has been made
 - PS&E Approval and Construction Let Date (July 2022)
- **Cost Estimates and Funding**
 - Right of Way, Construction
 - Cost Drivers
 - Overall Project Cost Update
- **Action Items**

Project Improvements - Refresh

- **Purpose and Need:**
 - Established with PennDOT as part of the project scoping phase

Purpose

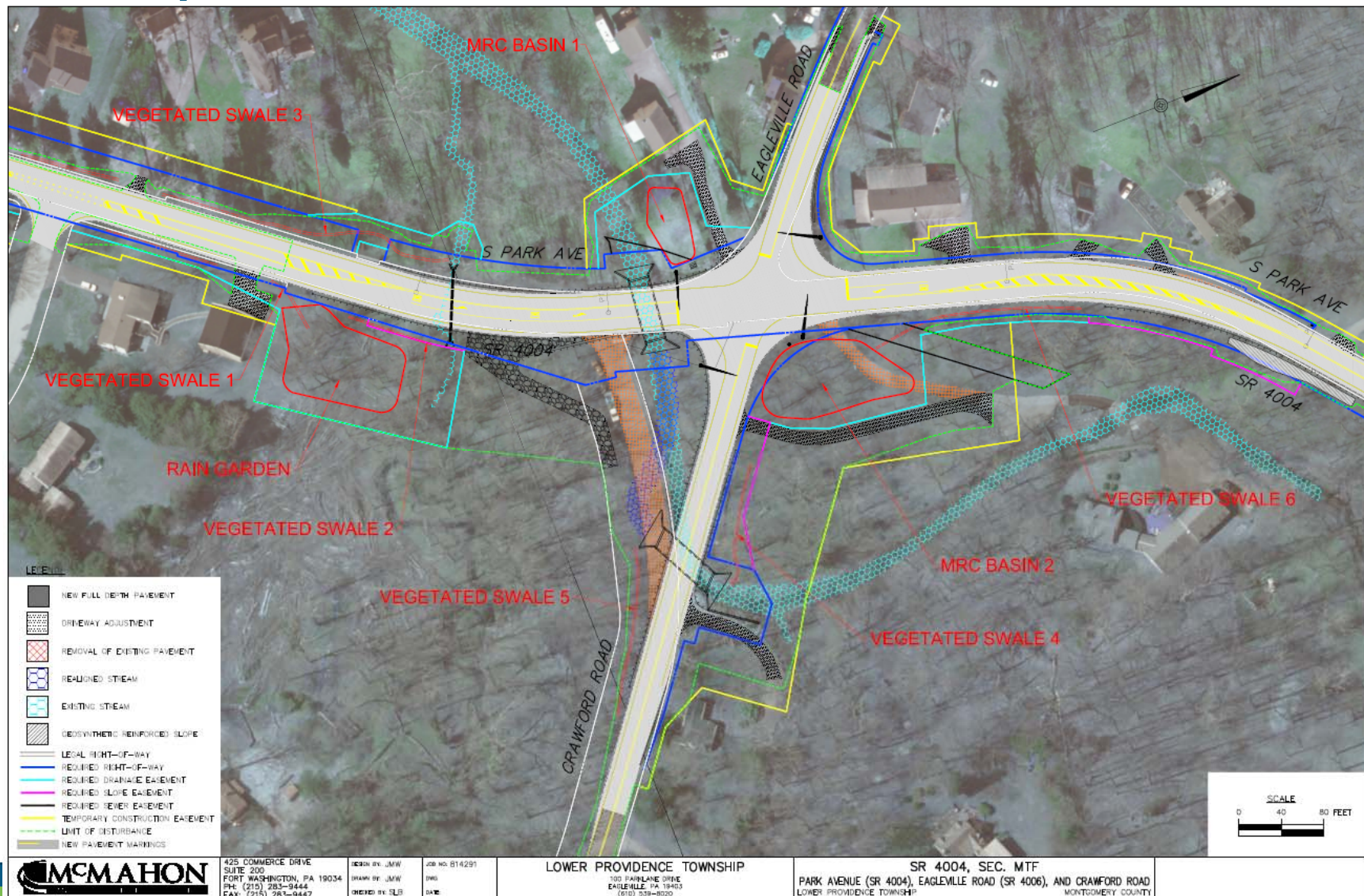
The purpose of the project is to provide a roadway and structure that are capable of efficiently and safely handling the existing and expected traffic while eliminating structural deficiencies and also reducing vehicle collisions.

Need

The existing intersection is currently an offset, unsignalized intersection with high volumes and a significant number of crashes. The DVRPC and the Township have prepared analyses that recommend improvements are needed at this location to address the safety issues associated with a number of rear-end and angle crashes due to its existing geometry and the surrounding topography. The horizontal and vertical geometry of the roadways within the project limits add to sight distance, speed, and general vehicular movement concerns in this area.

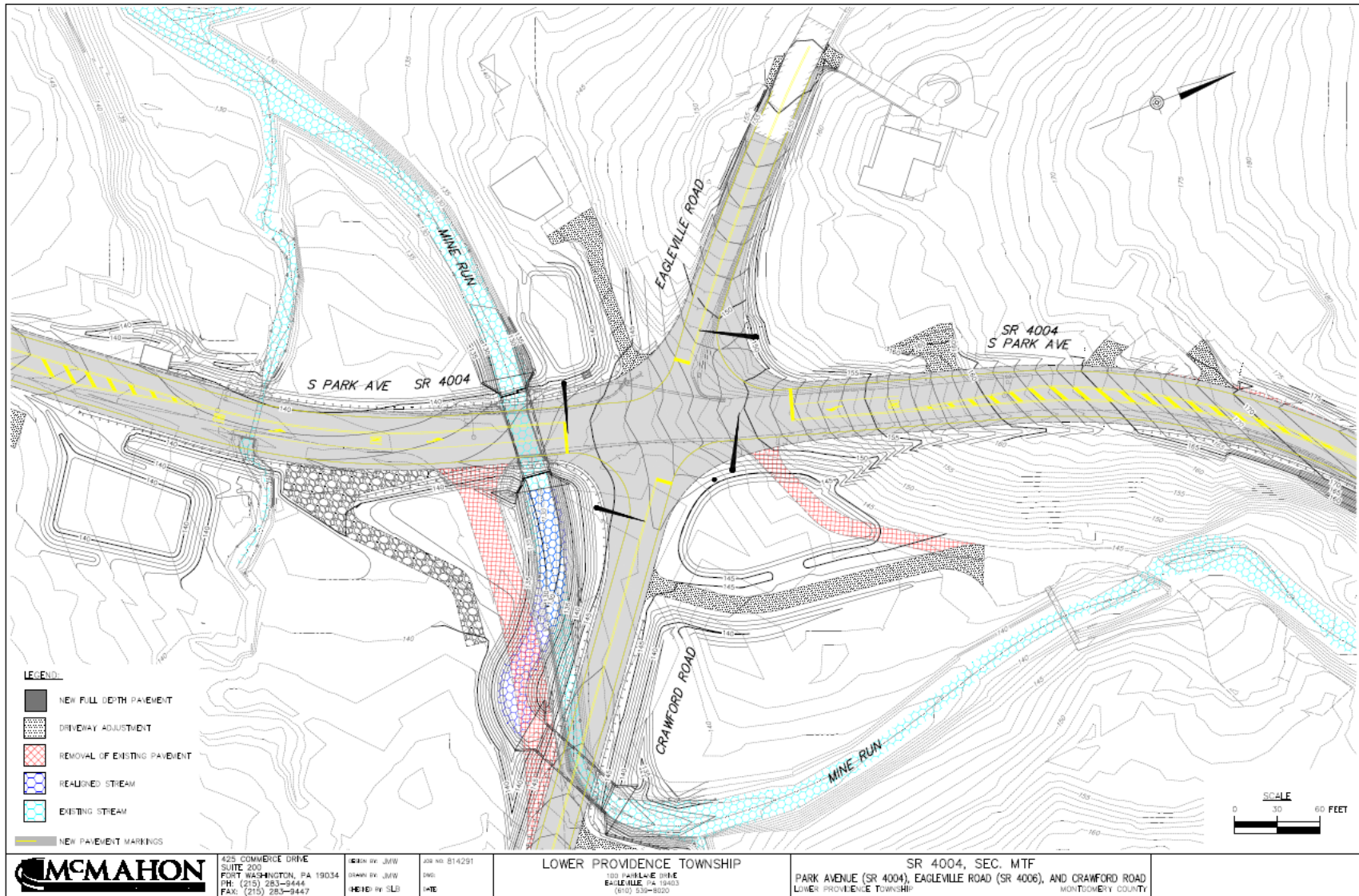
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Project Improvements- Refresh



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Project Improvements- Refresh



Project Improvements - Refresh

- **Key Project Components**
 - **Park Ave (Minor Arterial):**
 - Exclusive Left Turn Lanes, and lane shift transitions
 - 11' travel lanes and 4' shoulders
 - Roadside swales for managing stormwater runoff, corrective measures for existing drainage problem areas
 - Horizontal and Vertical Geometry to meet design criteria (improves driver's safe sight distances for roadway curvature)
 - Structure Replacement over Mine Run
 - Guide rail installation & Slope Stabilization/Protection
 - Traffic Signal Installation
 - Stormwater Management BMP's (required under NPDES regulations)
 - Driveway adjustments

Project Improvements - Refresh

- **Key Project Components**
 - **Eagleville Road and Crawford Road (Major Collector):**
 - 11' travel lanes and 4' shoulders, wider pavement at intersection for vehicle turning movements
 - Horizontal and Vertical Geometry to meet design criteria (affects driver's safe sight distances for roadway curvature)
 - Structure Installation over Mine Run & Retaining Wall
 - Guide rail installation
 - Traffic Signal Installation
 - Stream Relocation
 - Single face barrier at locations to accommodate steep slopes and property tie-ins
 - Stormwater Management BMP's (required under NPDES regulations)
 - Driveway adjustments

Pedestrian Accommodations Evaluations during Project

1. Project Scoping Discussions

- Township, County, and PennDOT Meetings
- Alternatives Analysis

2. Pedestrian and Bicycle Checklists

- Included in Preliminary Engineering Design Criteria Report
- Used to evaluate pedestrian needs accommodations
 - o Consideration of Generators, Existing Linkages, Regular Use of Facility, Neighborhoods, Impact on future development, near hospitals, schools, Elder care, Transit routes/Park and Rides, Bike racks, Athletic fields, etc.
- Approved as part of the Design Field View Package (end of Preliminary Engineering)

Pedestrian Accommodations Evaluations Cont'd

3. Other Considerations during Design

- Public Involvement
- Terrain, slopes, grades both within and adjacent to roadway
- Stream Impacts and need for minimizing stream relocation
- Impact to other project aspects i.e. pipe/inlet drainage facilities vs overland roadside swales
- Additional property impacts (including actual house structures)
- Extended project limits to connect to other existing ped features (2500 LF) plus project length (1500 LF)
- Alternate Projects to Provide Pedestrian Connectivity
- Funding Considerations

4. Traffic Signal Design

- Pedestrian Needs Accommodations also included with Final Signal Design Plans.
- Considers Preliminary Engineering evaluations
- Approval received from District Traffic Unit

Where We've Been

- **2020 and 2021**
 - Significant Progress in Final Design – Estimated to be 85-90% Complete
 - Engineering design of the overall project is essentially complete, pending receipt of utility information
 - Several Final Plans ready for PennDOT approvals (Signing & Pavement Marking, Traffic Signal, Structures)
 - NPDES and Conservation District Approval Secured
 - DEP Joint Permit (technical review received 11/21 and minor comments/responses resubmitted 12/21 for final approval)

(continued on next slide)

Where We've Been

- **2021**
 - Right of Way Acquisitions (**16 properties**):
 - All Required Property is secured by LPT (16 claims paid, donations complete) – Acquisition Cost Total Cost = \$279,791
 - Next steps include recording R/W Plan and submitting R/W Clearance package to PennDOT for clearance.
 - 75% Construction Cost Estimate Completed based on Final Design
 - Final Plan Submissions to PennDOT for review and approvals
 - Signing & Pavement Marking Plan (SPMP) resubmitted 12/22/21
 - Retaining Wall Final Plan (submitted 7/21-awaiting final approval)
 - ***DCED MTF Funds Awarded for 2021 round - \$1.75 million***

Moving Forward

- 2021- 2022
 - *Utility Coordination*
 - Progress made with several utilities in 2021 (PECO, Verizon, LPTSA)
 - *D4181 forms are in our hands*
 - *D419 preparation underway*
 - Progress being made with Audubon Water Co. This remains critical path.
 - Regular contact made for progress updates. Will affect overall project construction staging so we need this information to finalize plans.

Moving Forward

- 2021 - *Utilities...What does this affect?*
 - Completion of **Utility Relocation Plans** and associated items for the PS&E Package
 - Showing proposed facilities on Construction Plans, Profiles, & Cross-Sections (affecting **Constructability and PS&E Plan submissions to PennDOT**)
 - **Construction Staging** and Coordination with Roadway, Structure, and ESC** plans
 - **Changes in staging may require amendments to NPDES Permit*
 - Completing **Construction Schedule** since their work is both coordinated and incorporated
 - Completing the **Utility Clearance Documents**

Where We're Going

- **2022**
 - Advancing all aspects of the Final Design for PSE package
 - Constructability Review
 - PSE Plan Package
 - Specifications
 - Utility Clearance*** Need AWC action
 - Construction Inspection RFP (coordinate with Ed Reagle)
 - Stormwater Maintenance Agreements, as applicable
 - Established let date of June/July 2022 so that we can finalize PS&E package
 - Expect a 6-month timeframe (from Dec/Jan) will be necessary to complete PS&E package

Where We're Going

- **2022 and Beyond**
 - Construction Schedule
 - Total Duration is 3 years One (1) full year for utility relocations is required
 - Two (2) full construction seasons/years for actual roadway construction.
 - Anticipated completion will be December 2025 (approximately)

Cost Estimates & Funding

- **75% Construction Cost Estimate**
 - Based on quantities and ECMS price history as of 2/26/2021
 - 147 Line Items to date in the estimate
 - Inspection must be 10% of Construction Cost per PennDOT
 - Escalated for 2022 letting***
 - ***Prior to 2021 material and labor cost increases

\$7,493,226 – Construction Cost Estimate

\$749,323 – Construction Inspection

\$8,242,556 – Construction & Inspection

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Cost Estimates & Funding

- 75% Construction Cost Estimate (over 140 line items)

Item No.	Description	Unit	Qty	Unit Cost	Total Item Cost
0201-0001	CLEARING AND GRUBBING	LS	1	\$150,000.00	\$150,000.00
0203-0001	CLASS 1 EXCAVATION	CY	6,000	\$30.00	\$180,000.00
0203-0004	CLASS 1B EXCAVATION	CY	366	\$90.00	\$32,940.00
0203-0005	CLASS 1C EXCAVATION	CY	800	\$60.00	\$48,000.00
0203-0006	SAV CUTTING	LF	527	\$5.00	\$2,635.00
0204-0001	CLASS 2 EXCAVATION	CY	90	\$90.00	\$8,100.00
0204-0050	CLASS 4 EXCAVATION	CY	70	\$50.00	\$3,500.00
0205-0001	COMMON BORROW EXCAVATION	CY	4,300	\$15.00	\$64,500.00
0205-0100	FOREIGN BORROW EXCAVATION	CY	6,000	\$30.00	\$180,000.00
0210-0001	GEOTEXTILE, CLASS 1	LF	1,800	\$2.00	\$3,600.00
0210-0004	GEOTEXTILE, CLASS 4, TYPE A	SY	14,409	\$2.25	\$32,420.25
0210-0006	GEOTEXTILE, CLASS 4, TYPE C	SY	46	\$5.00	\$230.00
0223-0002	GEOSYNTHETIC REINFORCED SOIL SLOPE, TYPE B	SF	1,322	\$75.00	\$99,150.00
0310-0422	SAND, BASE COURSE, PG 645-22, 0.3 TO <3 MILLION ESALS	SY	1,104	\$20.00	\$22,080.00
0310-0426	SAND, BASE COURSE, PG 645-22, 0.3 TO <3 MILLION ESALS	SY	9,440	\$25.00	\$236,000.00
0350-0106	SUBBASE 6" DEPTH (NO. 2A)	SY	10,544	\$15.00	\$158,160.00
0410-0412	SAND, WEARING COURSE, PG 645-22, 0.3 TO <3 MILLION ESALS, 3/8 MIN MIN FGRM, 1/2" DEPTH, SFLH	SY	10,895	\$10.00	\$108,950.00
0410-6045	SAND, BINDER COURSE, PG 645-22, 0.3 TO <3 MILLION ESALS	SY	10,544	\$12.00	\$126,528.00
0460-0001	ASPHALT TACK COAT	SY	15,231	\$0.75	\$11,423.25
0491-0002	MILLING OF ASPHALT PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR	SY	351	\$30.00	\$10,530.00
0601-6421	24" X 30" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A, SHORE/TRENCH BOX HORIZONTAL, 7'-3", 100 YEAR DESIGN	LF	358	\$275.00	\$98,450.00
0601-6427	48" X 76" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A, SHORE/TRENCH BOX HORIZONTAL, 7'-3", 100 YEAR DESIGN	LF	69	\$950.00	\$65,550.00
0601-7004	18" REINFORCED CONCRETE PIPE, TYPE A, 10" FILL, 100 YEAR DESIGN	LF	167	\$200.00	\$33,400.00
0601-7019	18" REINFORCED CONCRETE PIPE, TYPE A, 7'-3" FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	LF	169	\$225.00	\$37,725.00
0604-7509	18" REINFORCED CONCRETE PIPE, TYPE A, (OPEN JOINT), 7'-3" FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	LF	496	\$130.00	\$64,480.00
0605-2640	TYPE D ENDOVAL FOR 18" PIPE	EACH	4	\$1,500.00	\$6,000.00
4605-2677	TYPE D-V ENDOVAL FOR 42" PIPE, MODIFIED FOR ELLIPTICAL	EACH	1	\$10,000.00	\$10,000.00
4605-2681	TYPE D-V ENDOVAL FOR 72" PIPE, MODIFIED FOR ELLIPTICAL	EACH	2	\$16,000.00	\$32,000.00
0605-2761	TYPE D-H LEVEL CONCRETE TOP UNIT AND BICYCLE SAFE	SET	2	\$3,500.00	\$7,000.00
0605-2791	TYPE M FRAME AND BICYCLE SAFE GRATE	SET	8	\$1,200.00	\$9,600.00
0605-2850	STANDARD INLET BOX, HEIGHT (H=0)	EACH	3	\$3,400.00	\$10,200.00
4605-2850	STANDARD INLET BOX, HEIGHT (H=0), MODIFIED	EACH	8	\$3,500.00	\$28,000.00
4605-2854	TYPE I INLET BOX, HEIGHT (H=0), MODIFIED	EACH	1	\$4,000.00	\$4,000.00
0605-2882	TYPE D-H INLET BOX, HEIGHT (H=0)	EACH	2	\$6,500.00	\$13,000.00
0605-0001	MOBILIZATION	LS	1	\$500,000.00	\$500,000.00
0609-0003	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES	LS	1	\$75,000.00	\$75,000.00
0609-0009	EQUIPMENT PACKAGE	LS	1	\$2,500.00	\$2,500.00
4610-0001	4" PIPE UNDERDRAIN, TYPE I (BACKFILL FOR MRC BASIN)	LF	205	\$55.00	\$11,275.00
0610-7002	6" PAVEMENT BASE DRAIN	LF	1,440	\$20.00	\$28,800.00
0610-0021	4" SUBSURFACE DRAIN OUTLETS	LF	96	\$18.00	\$1,728.00
0610-0022	6" SUBSURFACE DRAIN OUTLETS	LF	97	\$25.00	\$2,425.00
0610-0040	SUBSURFACE DRAIN OUTLET ENDOVAL	EACH	2	\$750.00	\$1,500.00
0610-1202	CONCRETE END SECTION FOR 18" PIPE	EACH	2	\$1,400.00	\$2,800.00
0610-0459	PERMANENT IMPACT ATTENUATING DEVICE, TYPE II, TEST	EACH	5	\$4,000.00	\$20,000.00
0620-0400	TERMINAL SECTION, SINGLE	EACH	3	\$175.00	\$525.00
0620-0503	REMOVE EXISTING GUIDE RAIL (CONTRACTOR'S PROPERTY)	LF	767	\$5.00	\$3,835.00
0620-0602	TYPE 3-5 GUIDE RAIL	LF	1,038	\$30.00	\$31,140.00
0620-0002	SINGLE FACE CONCRETE BARRIER	LF	390	\$100.00	\$39,000.00
0630-0001	PLAIN CEMENT CONCRETE CURB	LF	165	\$100.00	\$16,500.00
0638-0000	CONSTRUCTION SURVEYING, TYPE A	LS	1	\$150,000.00	\$150,000.00
0638-0020	MICROCOMPUTER, TYPE C	LS	1	\$4,000.00	\$4,000.00
0639-0001	NARRATIVE SCHEDULE	LS	1	\$3,300.00	\$3,300.00
0630-0001	INTERNAL FACILITY	DOLLAR	1	\$5,000.00	\$5,000.00
0703-0020	NO. 1 COARSE AGGREGATE	CY	20	\$150.00	\$3,000.00
0703-0025	NO. 57 COARSE AGGREGATE	CY	358	\$75.00	\$26,850.00
0803-0001	PLACING STOCKPILED TOPSOIL	CY	1504	\$25.00	\$37,600.00
0804-0001	SEEDING - FORMULA B, INCLUDING MULCH	LB	467	\$25.00	\$11,675.00
0804-0004	SEEDING - FORMULA E, INCLUDING MULCH	LB	31	\$30.00	\$930.00
0804-0005	SEEDING - FORMULA N, INCLUDING MULCH	LB	70	\$50.00	\$3,500.00
0806-0121	TEMPORARY SHORT-TERM ROLLED EROSION CONTROL	SY	5,393	\$2.00	\$10,786.00
0806-0140	PERMANENT ROLLED EROSION CONTROL PRODUCT, TYPE	SY	1,872	\$5.00	\$9,360.00
0810-0052	SELECTIVE TREE REMOVAL	EACH	16	\$1,000.00	\$16,000.00
0811-0003	TEMPORARY PROTECTIVE FENCE	LF	904	\$5.00	\$4,520.00
0845-0001	UNIFORMEEN WATER POLLUTION CONTROL	DOLLAR	1	\$20,000.00	\$20,000.00
0849-0020	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK	EACH	6	\$2,500.00	\$15,000.00
0850-0023	ROCK, CLASS R-5	SY	83	\$80.00	\$6,640.00
0850-0031	ROCK, CLASS R-3	CY	322	\$65.00	\$20,930.00
0850-0032	ROCK, CLASS R-4	CY	5	\$200.00	\$1,000.00
0850-0034	ROCK, CLASS R-6	CY	543	\$50.00	\$27,150.00
0851-0003	ROCK APRON	SY	105	\$100.00	\$10,500.00
0855-0003	PUMPED WATER FILTER BAG	EACH	8	\$1,500.00	\$12,000.00
0855-0004	REPLACEMENT PUMPED WATER FILTER BAG	EACH	8	\$900.00	\$7,200.00
0860-0000	INLET FILTER BAG FOR TYPE M INLET	EACH	7	\$250.00	\$1,750.00
0860-0002	INLET FILTER BAG FOR TYPE C INLET	EACH	2	\$250.00	\$500.00
0860-0010	CONCRETE BLOCK/GRAVEL INLET PROTECTION FOR TYPE M	EACH	2	\$500.00	\$1,000.00
0865-0001	SILT BARRIER FENCE, 18" HEIGHT	LF	30	\$10.00	\$300.00
0866-0005	HEAVY DUTY SILT BARRIER FENCE	LF	135	\$15.00	\$2,025.00
0867-0002	COMPOST FILTER SOCK, 12" DIAMETER	LF	1,218	\$6.00	\$7,308.00
0867-0018	COMPOST FILTER SOCK, 18" DIAMETER	LF	1,764	\$3.00	\$5,292.00
0867-0022	COMPOST FILTER SOCK, 24" DIAMETER	LF	773	\$11.00	\$8,503.00
0871-0001	CONCRETE ANTI-SLEEP COLLAR	EACH	3	\$1,500.00	\$4,500.00
0875-0001	CONCRETE OUTLET STRUCTURE	EACH	1	\$7,500.00	\$7,500.00
4875-0001	CONCRETE OUTLET STRUCTURE W/ ORIFICE PLATE	EACH	2	\$5,000.00	\$10,000.00
0901-0001	MAINTENANCE AND PROTECTION OF TRAFFIC DURING	LS	1	\$635,000.00	\$635,000.00
0910-2828	250-WATT HIGH PRESSURE SODIUM LUMINAIRE, ARM	EACH	3	\$850.00	\$2,550.00
0910-4116	AVG 8 UNDERGROUND CABLE, COPPER, 1 CONDUCTOR	LF	1,128	\$250.00	\$282,000.00
0931-0003	POST MOUNTED SIGNS, TYPE B, STEEL SQUARE POST	SF	46	\$45.00	\$2,070.00
0935-0001	POST MOUNTED SIGNS, TYPE F	SF	34	\$35.00	\$1,190.00
0936-0200	STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS	SF	68	\$50.00	\$3,400.00
0937-0002	GUIDE RAIL MOUNTED DELINEATORS TYPE A (V/B)	EACH	42	\$25.00	\$1,050.00
0937-0103	GUIDE RAIL MOUNTED DELINEATORS TYPE D (V/B)	EACH	42	\$7.00	\$294.00
0941-0001	RESET POST MOUNTED SIGNS, TYPE B	EACH	12	\$150.00	\$1,800.00
0945-0000	RESET POST MOUNTED SIGNS, TYPE F	EACH	9	\$875.00	\$7,875.00
0951-0105	TRAFFIC SIGNAL SUPPORT, 35' MAST ARM	EACH	1	\$19,000.00	\$19,000.00
0951-2135	TRAFFIC SIGNAL SUPPORT, 35' MAST ARM WITH LUMINAIRE	EACH	1	\$21,000.00	\$21,000.00
0951-2140	TRAFFIC SIGNAL SUPPORT, 40' MAST ARM WITH LUMINAIRE	EACH	2	\$24,000.00	\$48,000.00
0951-4014	TRAFFIC SIGNAL SUPPORT, 14' PEDESTAL	EACH	6	\$5,000.00	\$30,000.00
4952-1000	TIME CLOCK, GPS	EACH	1	\$1,500.00	\$1,500.00
0954-0002	2 INCH CONDUIT	LF	364	\$4.50	\$1,638.00
0954-0003	3 INCH CONDUIT	LF	565	\$5.50	\$3,107.50
4952-1000	TIME CLOCK, GPS	EACH	1	\$1,500.00	\$1,500.00
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4952-1000	TIME CLOCK, GPS	EACH	1	\$1,500.00	\$1,500

Cost Estimates & Funding

- **Cost Drivers Remaining**
 - Utility Relocations and Cost Sharing, if applicable
 - Actual Construction Dates
 - Supply Chain and Inflation

SR 4004, Sec. MTF Update

Cost Estimate & Funding with FD Supplement

- Overall Project Cost Estimate with Grant Awards

Engineer's Opinion of Cost 75% Construction Estimate										
Project: Park Ave-Eagleville Rd-Crawford Rd Inter Realign Applicant: Lower Providence Township										
A	B	C	D	E	F	G	H	I	J	K
	Total	PennDOT 2014 MTF Award***	PennDOT 2014 Matching Funds***	PennDOT 2017- 2018 MTF Award	PennDOT 2017- 2018 Matching Funds	DCED 2019 MTF Award	DCED 2021 MTF Grant Award	2021-2022 PennDOT MTF Grant Award	2021-2022 PennDOT MTF Matching Funds	Funding Gap
Administrative	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contingency	\$ 313,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,500	\$ 130,000	\$ 83,000	\$ 12,500
Preliminary Engineering - <i>Actual</i>	\$ 748,607	\$ 600,000	\$ 148,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Environmental Clearance - <i>Actual</i>	\$ 76,758	\$ 76,758	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Final Design - <i>Actual</i>	\$ 1,022,628	\$ 323,242	\$ 699,022	\$ -	\$ 9,364	\$ -	\$ -	\$ -	\$ -	\$ -
Final Design Supp 2 - <i>Actual</i>	\$ 214,500	\$ -	\$ -	\$ -	\$ 214,500	\$ -	\$ -	\$ -	\$ -	\$ -
Right-of-Way- <i>Actual 11/21</i>	\$ 279,791	\$ -	\$ -	\$ -	\$ 279,791	\$ -	\$ -	\$ -	\$ -	\$ -
Utilities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Utilities (Engineering LPTSA)	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 7,557,577	\$ -	\$ -	\$ 2,000,000	\$ 51,345	\$ 1,000,000	\$ 1,662,500	\$ 2,615,604	\$ 41,973	\$ 186,155
Inspection	\$ 756,398	\$ -	\$ -	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ 736,398	\$ -
Total	\$ 10,994,259	\$ 1,000,000	\$ 838,629	\$ 2,000,000	\$ 600,000	\$ 1,000,000	\$ 1,750,000	\$ 2,745,604	\$ 861,371	\$ 198,655

75% Final Design CONSTRUCTION & INSPECTION ESTIMATE 02/2021	\$ 8,906,766
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TOTAL LOCAL MATCH COMMITMENT ACROSS ALL GRANTS	\$ 2,300,000	\$ 2,300,000	\$ 0	Total of Columns D+F+J
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Latest Award



Minimal Funding Gap (1.8% of total project cost)



Note: Grants have various timelines and expiration dates requiring extension requests and progress reports with both PennDOT and DCED

Project Action Items - Summary

1. Final Design

- PS&E Package
 - Constructability Submission Package (Includes Specifications and Construction Schedule)
 - Utility Clearance Package
 - DM3 – Plan Presentation Review
 - ECMS Document Development and Upload
 - Construction Inspection Agreement

2. Utility Coordination

- Continue to press Utility Facility Owners to complete and provide designs, forms, specifications
- Coordinate on construction phasing details and timelines
- Upload project info to New PennDOT URMS system

Thank You!

Questions

