

LEGEND

- LEGAL RIGHT-OF-WAY
- PLCC CURBING
- CONCRETE MOUNTABLE CURB
- PROPOSED ROADWAY
- PROPOSED CONCRETE
- PROPOSED SIDEWALK
- PROPOSED VEGETATION

- OPTIMIZATION OF TRAFFIC SIGNAL TIMINGS
- COUNTDOWN PEDESTRIAN SIGNALS
- CONTINENTAL CROSSWALK PAVEMENT
- NB CEDAR CLIFF DRIVE LEFT-TURN PHASING
- PROVIDE EMERGENCY PRE-EMPTION EQUIPMENT

CONCEPT PLAN NOTES

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Est. 1989

TRAFFIC PLANNING AND DESIGN, INC.

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	CUMBERLAND	2018	--	1 OF 3






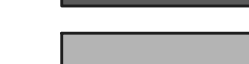

LOWER ALLEN TOWNSHIP

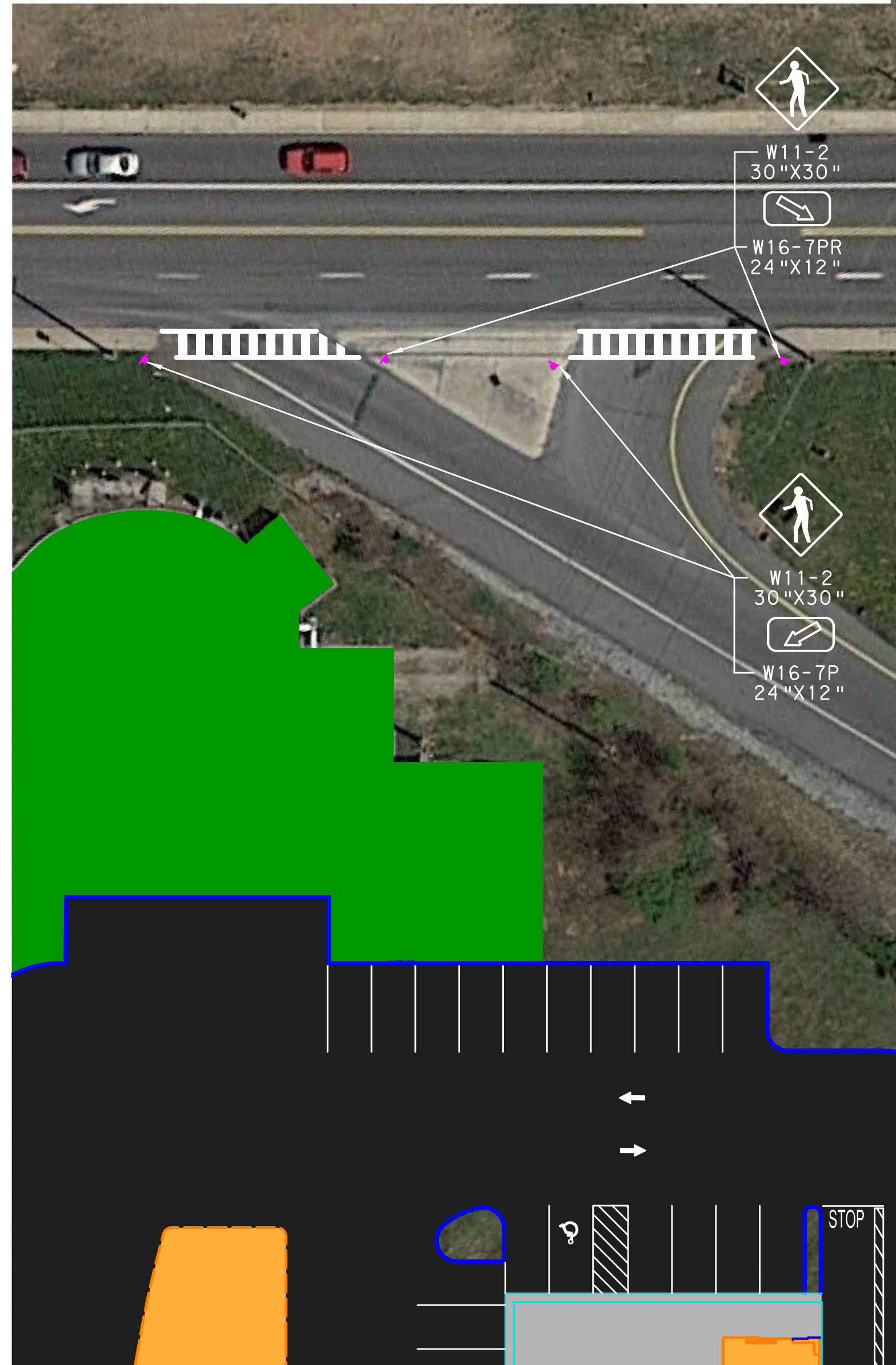
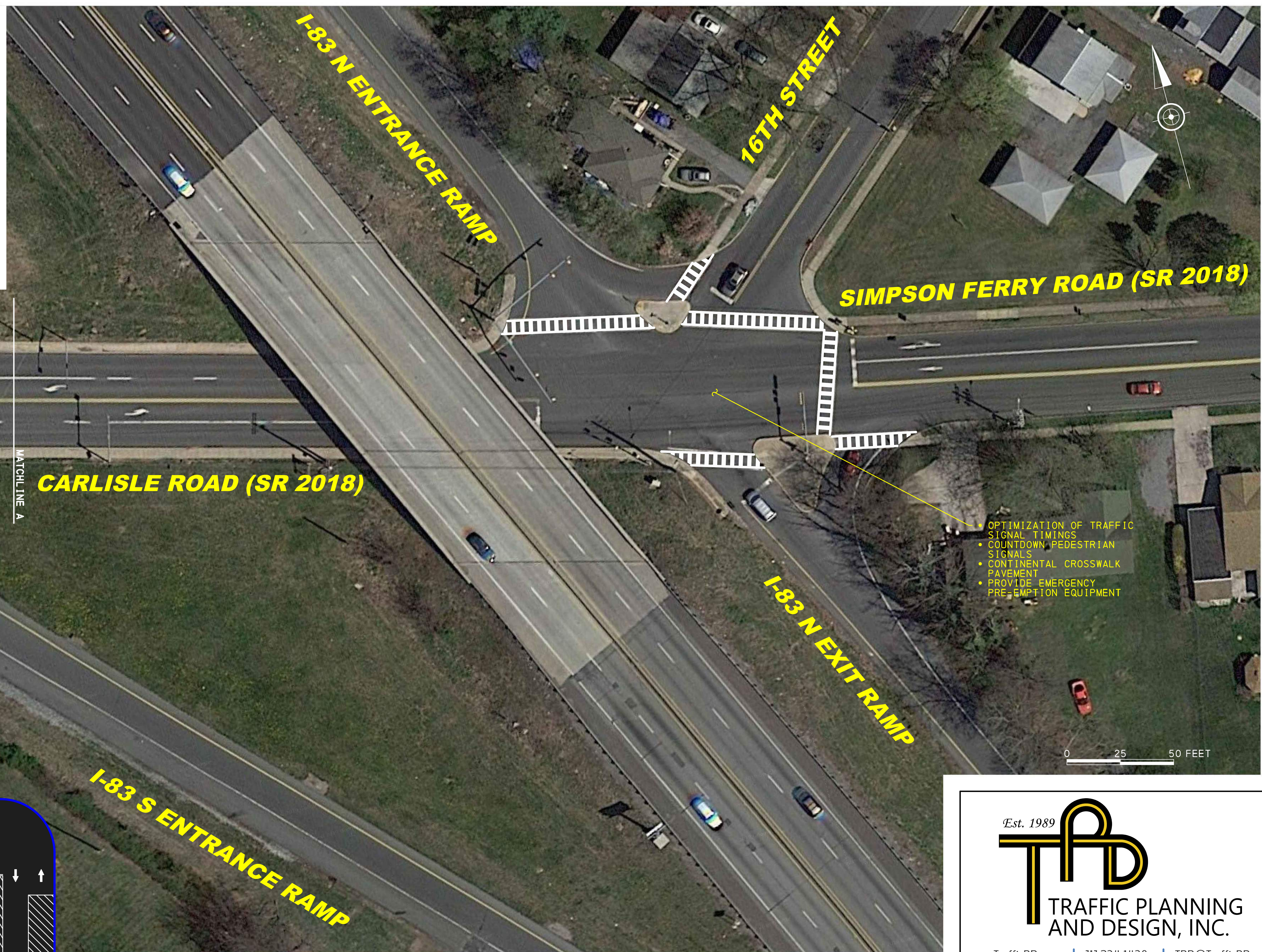
CONCEPT PLAN

02/06/2020

11:25
1/13/2020 2:29 AM
2/6/2020


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LOWER ALLEN TOWNSHIP

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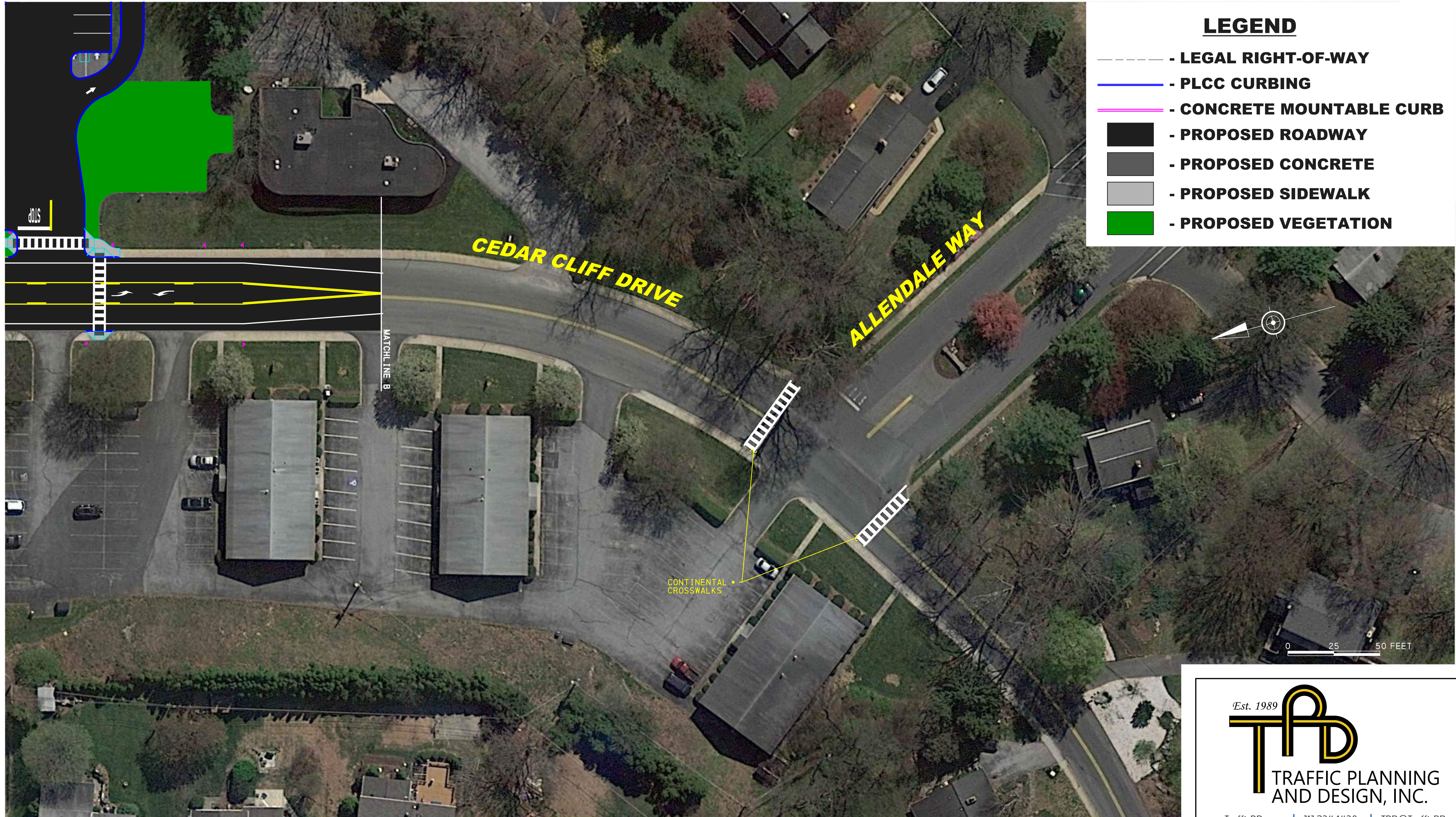
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CONCEPT PLAN

02/06/2020

2/6/2020 11:25 AM 11:25:40 AM



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8-0	CUMBERLAND	2018	--	3 OF 3

LOWER ALLEN TOWNSHIP

CONCEPT PLAN

02/06/2020

DESIGNERS OPINION OF PROBABLE COST

TYPE OF ESTIMATE: CONCEPT

PROJECT: LOWER ALLEN SHEETZ
MUNICIPALITY: Lower Allen Township, Cumberland County, PA
TPD JOB #: SHTZ.00039

PLAN TITLE: CONCEPT PLAN
PLAN DATE: 2/6/2020
ROAD(S): Cedar Cliff Dr at Carlisle Rd (SR 1818)
DESCRIPTION OF WORK: Site Access Improvements, Roadway and Pedestrian Upgrades

ESTIMATE DATE: 2/6/2020
PREPARED BY: JS
CHECKED BY: ACW
SOURCE FOR UNIT COSTS: Penn DOT Publication 287, Bulletin 50 Construction Cost Catalog (ECMS)
 OR: Web Site: www.BidHistory.com

NOTES: Unit prices obtained from PennDOT ECMS Bid History web site

DISCLAIMER: TPD IS FURNISHING THIS COST ESTIMATE AS REQUESTED BY THE CLIENT. PLEASE NOTE THAT ESTIMATED COSTS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS, LOCAL OR REGIONAL DIFFERENCES, CHANGES TO THE PLANS, AND/ OR CHANGES IN UNIT COSTS. COST ESTIMATES ARE PROVIDED FOR USE IN BUDGETING, BUT IN NO WAY SHOULD THIS ESTIMATE BE CONSTRUED AS A FINAL COST FOR THE PROJECT. FINAL COSTS ARE CONTINGENT ON ACTUAL BIDS FROM CONTRACTORS. TPD WILL NOT BE HELD RESPONSIBLE FOR DIFFERENCES BETWEEN THIS COST ESTIMATE AND BID COSTS.

DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	COST
GRADING AND PREPARATION				
CLEARING AND GRUBBING	AC	0.0	\$9,000.00	\$0
CLASS 1 EXCAVATION	CY	195	\$40.00	\$7,818
SAWCUT	LF	287	\$6.00	\$1,721
SUBTOTAL GRADING AND PREPARATION				\$9,539
PAVEMENT ITEMS				
SUPERPAVE WEARING COURSE, 1.5" DEPTH, WMA	SY	2,468	\$15.00	\$37,023
SUPERPAVE BINDER COURSE, 2.5" DEPTH WMA	SY	233	\$25.00	\$5,835
SUPERPAVE BASE COURSE, 6" DEPTH WMA	SY	233	\$48.00	\$11,204
PLAIN CEMENT CONCRETE PAVEMENT, 9" DEPTH	SY	50	\$279.00	\$13,844
SUBBASE 6" DEPTH (NO. 2A)	SY	315	\$22.50	\$7,081
MILLING OF BITUMINOUS PAVEMENT SURFACE, 1 1/2" DEPTH	SY	2,153	\$8.00	\$17,228
BITUMINOUS TACK COAT	SY	2,235	\$0.60	\$1,341
SUBTOTAL PAVEMENT ITEMS				\$93,556
CURBING ITEMS				
PLAIN CEMENT CONCRETE CURB	LF	223	\$85.00	\$18,930

CONCRETE MOUNTABLE CURB	LF	70	\$82.00	\$5,756
PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH	SY	32	\$59.00	\$1,870
CONCRETE SIDEWALK FOR CURB RAMPS	SY	5	\$200.00	\$1,050
DETECTABLE WARNING SURFACE	SF	10	\$48.00	\$480
SUBTOTAL CURBING ITEMS				\$28,086
SIGNS AND LANE MARKINGS				
POST MOUNTED SIGNS, TYPE B	SF	145	\$43.00	\$6,214
4" WHITE WATERBORNE PAVEMENT MARKINGS	LF	1,008	\$0.74	\$746
6" WHITE WATERBORNE PAVEMENT MARKINGS	LF	141	\$0.30	\$42
4" YELLOW WATERBORNE PAVEMENT MARKINGS	LF	1,681	\$0.48	\$807
6" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	LF	1,530	\$2.60	\$3,978
24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS	LF	1,124	\$8.30	\$9,329
HOT THERMOPLASTIC LEGEND, LEFT ARROW	LF	6	\$160.00	\$960
SUBTOTAL SIGNS AND LANE MARKINGS				\$22,075
MISCELLANEOUS CONSTRUCTION ITEMS				
SIGNALIZATION *****FROM SEPARATE ESTIMATE*****	LS	1	\$100,000	\$100,000
SUBTOTAL MISCELLANEOUS ITEMS				\$100,000
SUBTOTAL PAY ITEMS				\$253,256
OTHER ITEMS				
MAINTENANCE AND PROTECTION OF TRAFFIC (6%)	LS	1	\$15,195	\$15,195
CONSTRUCTION SURVEY & STAKEOUT (3%)	LS	1	\$7,598	\$7,598
SUBTOTAL OTHER ITEMS				\$22,793
TOTAL: PAY ITEMS + OTHER ITEMS				\$276,049
CONTINGENCY (15%)				\$41,407
TOTAL ESTIMATE FOR CONSTRUCTION*				\$317,456

* Does not include:

Surveying/Engineering/Permitting/Legal Fees

Acquisition Costs for Right-of-Way/Easements/Releases

Utility pole relocation, underground utility relocation/exploration

Construction Inspection

Construction Management

or any other items not specifically listed above.

COST ESTIMATE

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