July 5, 2024

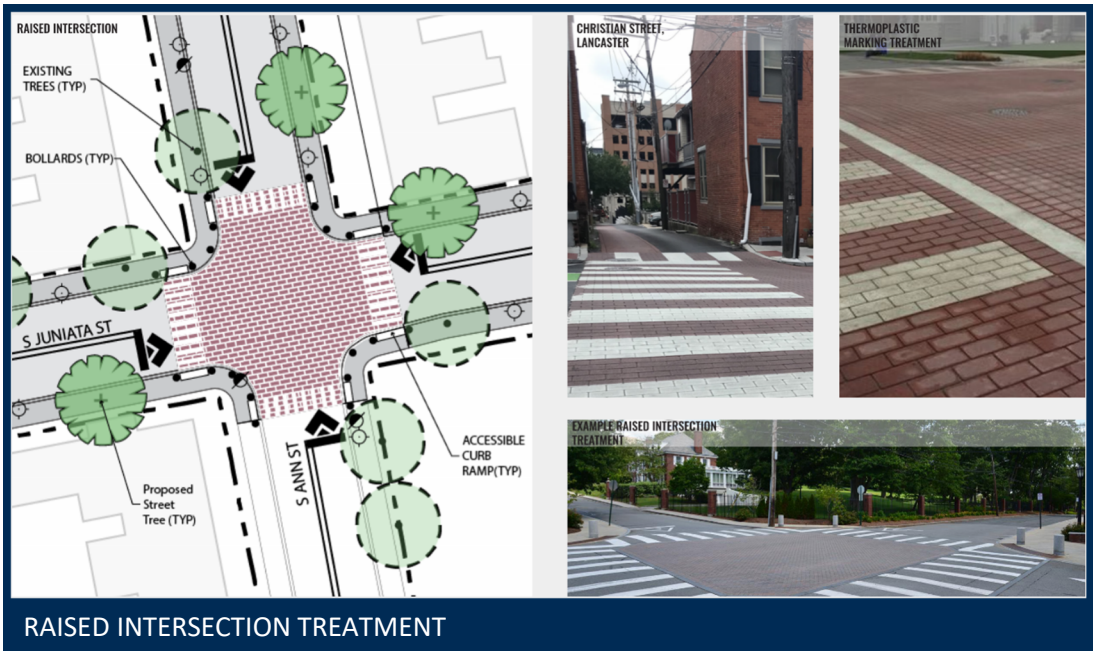
South Ann & Juniata Street Streetscape

Schematic Design Narrative

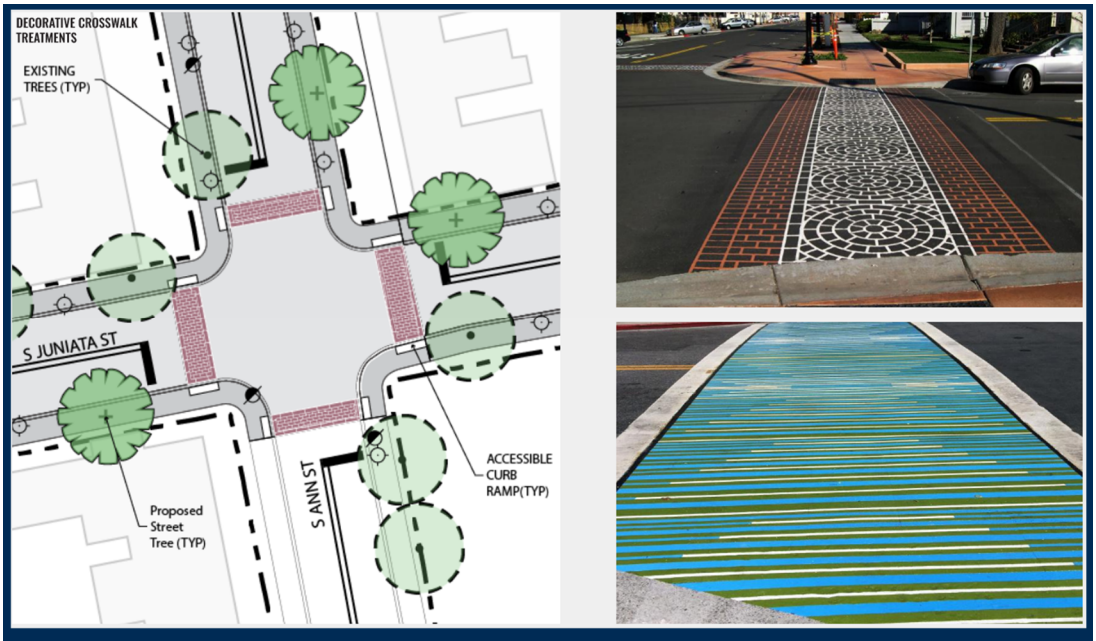
Submitted to: City of Lancaster, Department of Public Works

well received were a raised intersection improvement and decorative crosswalks.

- The **raised intersection** improvements would involve creating an elevated intersection which would provide two key benefits. The first benefit would be a visual queue for motor vehicles to slow down in advance of the intersection as well as altering them to the possibility of pedestrians within the intersection. The second benefit would be a physical obstacle serving as a traffic calming element, requiring motor vehicles to traverse the intersection at a slow speed.
- The primary benefit of **decorative crosswalks** would be the visual queue for motor vehicles, similar to the raised intersections. If implemented, it is recommended that treatments be completed as thermoplastic treatments, similar to Traffic Pattern XD, as manufactured by Ennis Flint. The use of this product or a similar product will reduce maintenance requirements and allow the City to



RAISED INTERSECTION TREATMENT

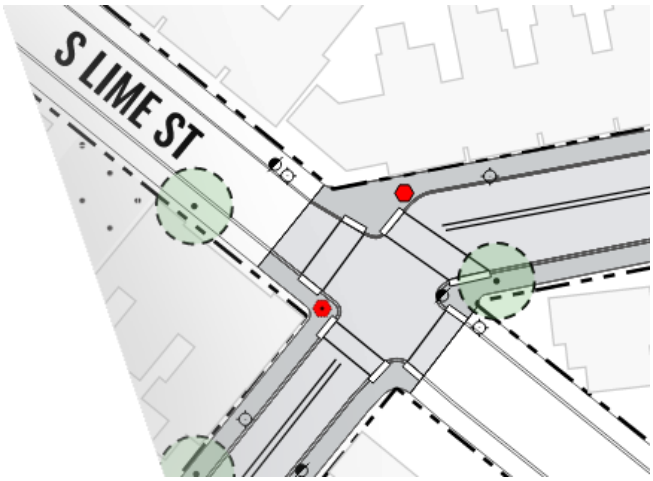


DECORATIVE CROSSWALK TREATMENT

have flexibility in the color, look, and style of the crosswalk to best fit the local neighborhood.

It is recommended that the raised intersection be prioritized at the intersection of South Ann and Juniata, if feasible, and the decorative crosswalks be implemented at the South Ann & New Dauphin Streets, and Juniata and South Lime Street intersections. The recommendation for the remaining intersections along Juniata Street would be to refresh the traditional white crosswalk markings.

Juniata and South Lime Intersection. During the public outreach efforts, the intersection of Juniata and South Lime Streets was identified as a potential safety concern based on only three of the four legs of the intersection being stop-controlled. As exists, motor vehicles traveling south along South Lime Street are not required to stop at the intersection. The project team evaluated this intersection and concluded that the intersection could be improved, and pedestrian safety could be enhanced with the inclusion of a fourth stop sign. The streetscape concept proposes minor curbline adjustments at the northeast corner of the intersection to better align the four legs of the intersection.



IMPLEMENTATION STRATEGIES

The following provides a summary of potential implementation strategies the City can use to design and construct the proposed streetscape improvements. Implementation will need to be balanced with impact versus available funding and future funding.

STRATEGY 1 - Full Streetscape Improvements in Phases

The first potential implementation strategy will be to construct full streetscape improvements in phases. Full improvements includes:

- New concrete sidewalk,
- Pedestrian scale lighting and associated electrical improvements,
- Street trees, and
- Intersection improvements to highlight and improve safety for pedestrian crossing.

The following phases are based on collaboration with the community and the City and provide early impact at the locations within the project study area of highest concern. These areas include the intersections of Juniata Street and S. Ann Street and Juniata Street and Lime Street, as well as Juniata Street between the two priority intersections and S Ann Street between Juniata and Dauphin.

PHASE	LIMITS	DESCRIPTION	COST
1	S Ann / Juniata Street Intersection	Intersection improvements including new ADA curb ramps and sidewalk, as well as either raised intersection or decorative crosswalk treatments. The City's preference would be the raised intersection, however further analysis will be required to determine if there is sufficient curb reveal to effectively raise the intersection.	$175,000 to $350,000
2	Juniata Street (S Ann to S Lime)	Concrete sidewalk, pedestrian scale lighting, and street trees	$375,000 to $425,000
3	S Ann Street (Dauphin to Juniata)	Concrete sidewalk, pedestrian scale lighting, and street trees	$625,000 to $675,000
4	Juniata Street (S Ann to Stevens)	Concrete sidewalk, pedestrian scale lighting, and street trees	$800,000 to $850,000
5	S Lime / Juniata Street Intersection	Curb line adjustments, as well as new ADA curb ramps and sidewalk, stop sign, and crosswalk treatments. Further analysis will be required to determine the final curb location to provide sufficient space for bus maneuvers.	$250,000 to $300,000
6	Juniata Street (S Lime to Rockland)	Concrete sidewalk and pedestrian scale lighting	$375,000 to $425,000

STRATEGY 2 - Pedestrian Facility (A) & Pedestrian Lighting / Street Trees (B) Improvements in Phases / Sub-Phases

The second implementation strategy will be to construct partial streetscape improvements, in phases, focused on improving sidewalks and intersections and coming back in the future to complete the installation of pedestrian scale lighting and street trees. The pedestrian facility improvements are estimated to include below grade infrastructure for the future pedestrian scale lighting and street trees. The pedestrian facility improvements would include:

- New concrete sidewalk,
- Intersection improvements to highlight and improve safety for pedestrian crossing, and
- Conduit and handholes for future pedestrian scale lighting.

Spacing and locations of future pedestrian scale lights and street trees would be identified, and it is recommended that a "temporary" treatment be placed in these locations until the foundations for the lights, light poles and luminaires, and street trees are installed. Possible treatments could include pavers, mulch, or another temporary / easily removed surface.

The following are the recommended phases for the pedestrian facility improvements, as well as costs for future installation of the pedestrian scale lighting and street trees.

		PEDESTRIAN FACILITY IMPROVEMENTS		LIGHTING & STREET TREE IMPROVEMENTS	
PHASE	**LIMITS**	**DESCRIPTION**	**COST**	**DESCRIPTION**	**COST**
A-1	S Ann / Juniata Street Intersection	Intersection improvements including new ADA curb ramps and sidewalk, as well as either raised intersection or decorative crosswalk treatments	$175,000 to $350,000	-	-
A-2 / B-2	Juniata Street (S Ann to S Lime)	A-3. Concrete sidewalk, and conduit / handholes for future lighting	$225,000 to $275,000	B-3. Pedestrian scale lighting / wiring, and street trees	$125,000 to $175,000
A-3 / B-3	S Ann Street (Dauphin to Juniata)	A-4. Concrete sidewalk, and conduit / handholes for future lighting	$350,000 to $400,000	B-4. Pedestrian scale lighting / wiring, and street trees	$275,000 to $325,000
A-4/ B-4	Juniata Street (S Ann to Stevens)	A-5. Concrete sidewalk, and conduit / handholes for future lighting	$475,000 to $525,000	B-5. Pedestrian scale lighting / wiring, and street trees	$300,000 to $350,000
A-5	S Lime / Juniata Street Intersection	Curb line adjustments, as well as new ADA curb ramps and sidewalk, stop sign, and crosswalk treatments	$250,000 to $300,000	-	-
A-6 / B-6	Juniata Street (S Lime to Rockland)	A-6. Concrete sidewalk, and conduit / handholes for future lighting	$225,000 to $275,000	B-6. Pedestrian scale lighting / wiring	$175,000 to $225,000

This strategy is set up to be flexible so that the lighting and street trees could be installed anytime after the pedestrian facilities are installed within those limits. For example, the City could choose to secure funding and install the pedestrian facility improvements for all blocks before focusing on installation of street lights and street trees; or the City could install pedestrian facilities within a block and then secure additional funding and install street lights and streets trees within that block before moving onto a second block.

ATTACHEMENT A -
CONCEPTUAL STREETSCAPE PLAN

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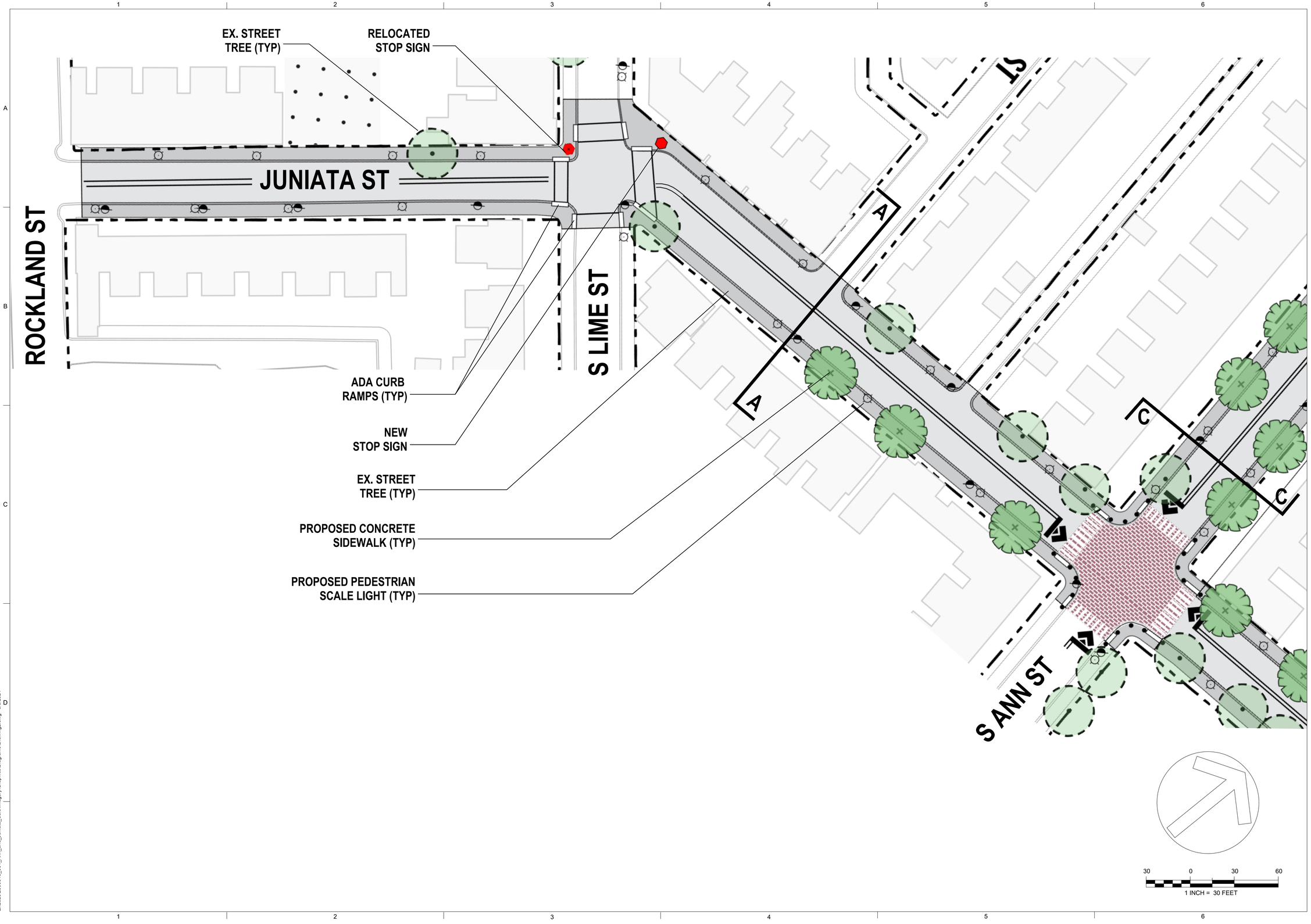

JMT
220 ST. CHARLES WAY, SUITE 200 | YORK, PA 17402
P: (717) 741-1600 | www.jmt.com

SEAL:

PREPARED FOR:

CITY OF LANCASTER
120 NORTH DUKE STREET
PO BOX 1599
LANCASTER, PA 17608
PHONE

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT:

ANN & JUNIATA STREETSCAPE IMPROVEMENTS

PROJECT LOCATION:

LANCASTER,
PENNSYLVANIA 17602

PROJECT NUMBER:

23-00346-001

DATE: 6/3/2024

SCALE: 1" = 30'

PLAN SET:

CONCEPT PLAN

DRAWING TITLE:

STREETSCAPE PLAN

DRAWING NUMBER:

L-001

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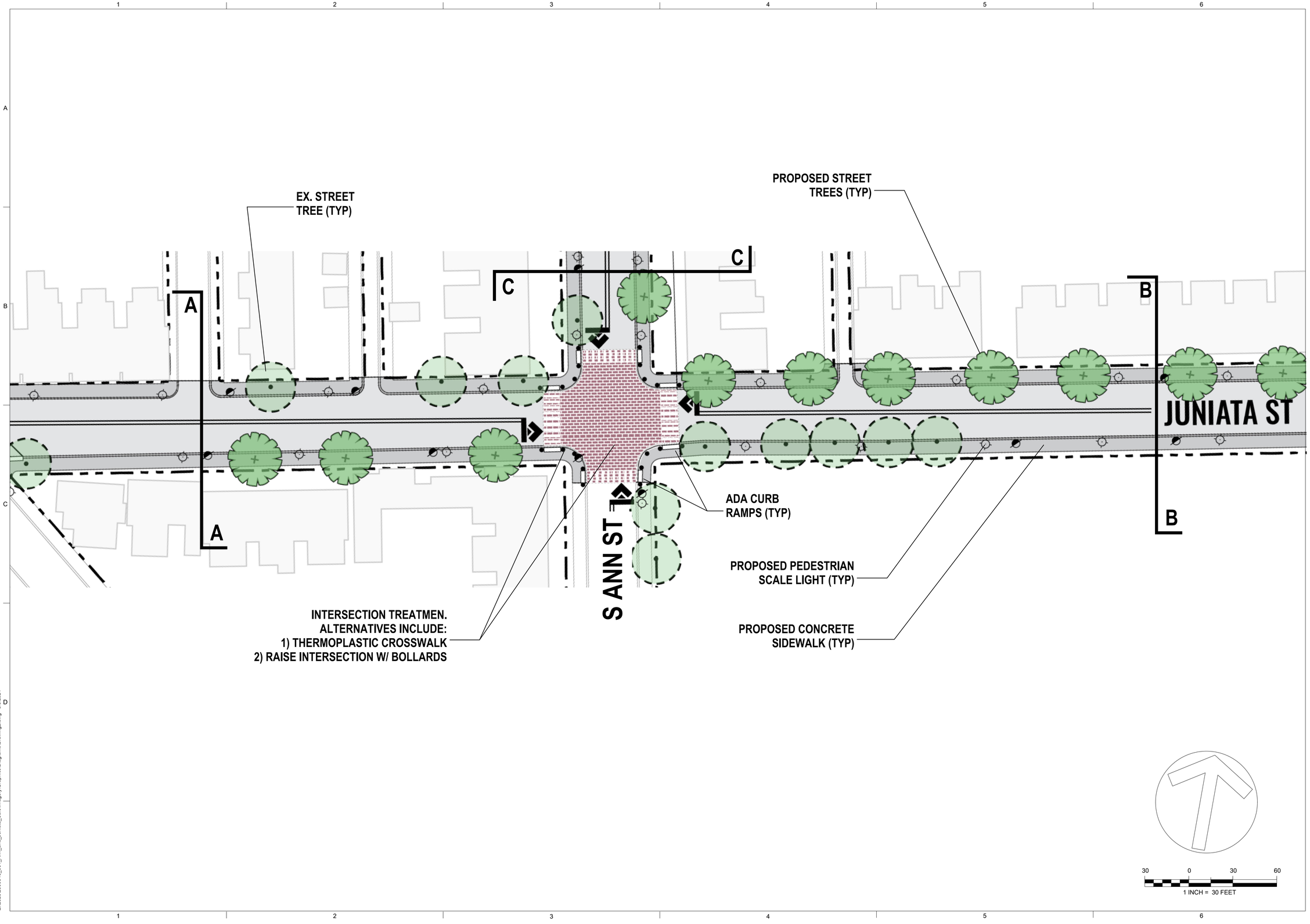

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PLAN SET:

CONCEPT PLAN

DRAWING TITLE:

STREETSCAPE PLAN

DRAWING NUMBER:

L-002

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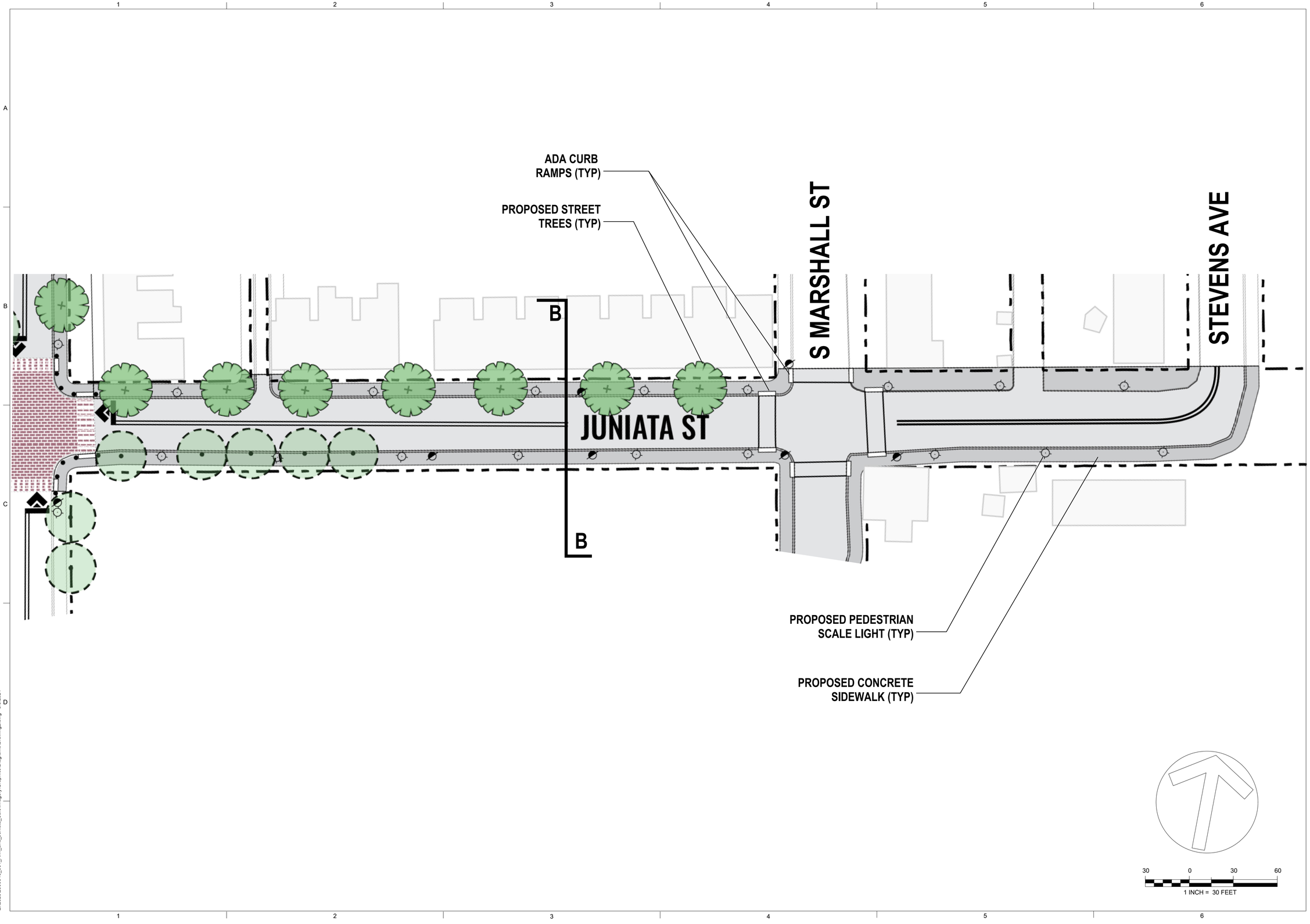

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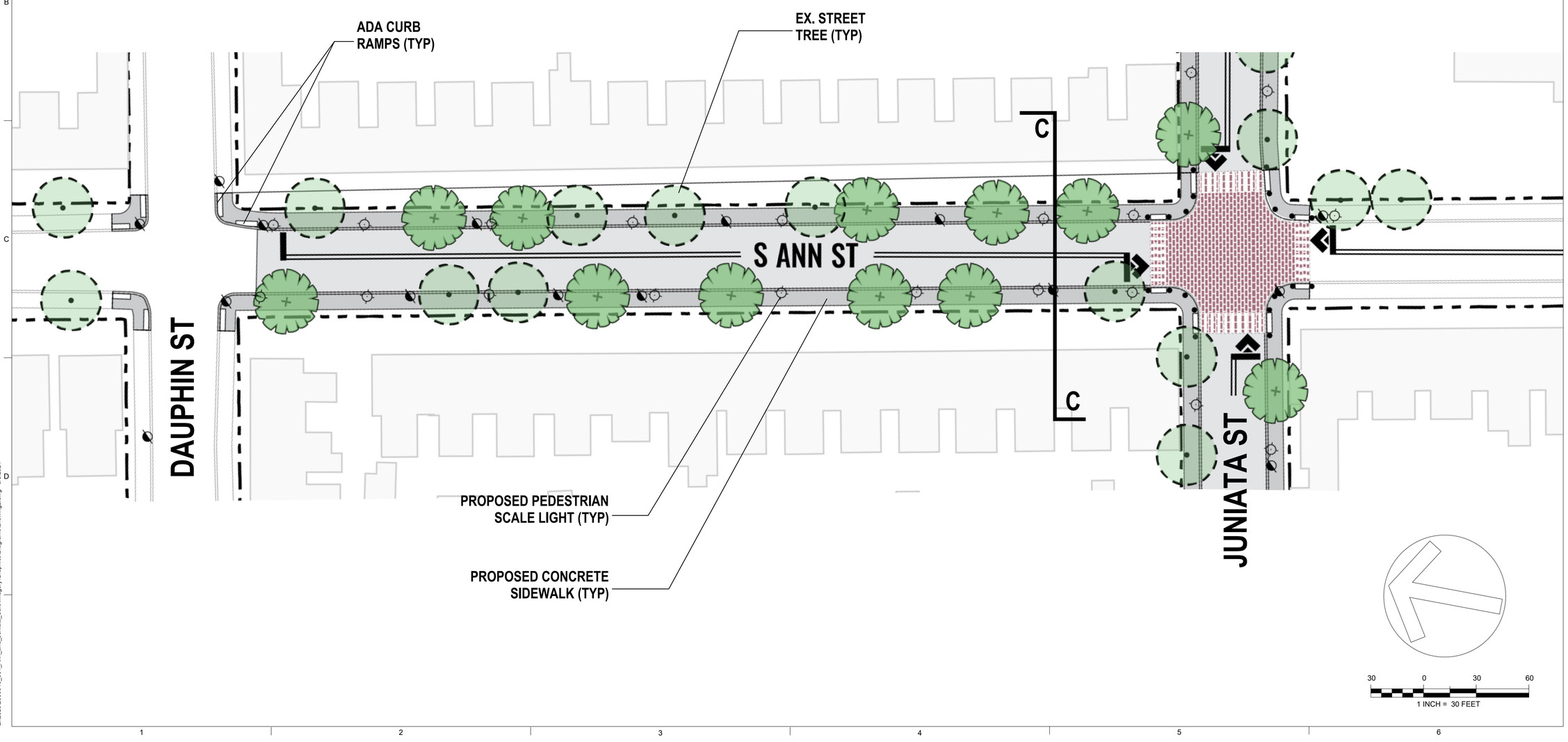

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LANCASTER, PA 17608
PHONE

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT:

ANN & JUNIATA
STREETSCAPE
IMPROVEMENTS

PROJECT LOCATION:

LANCASTER,
PENNSYLVANIA 17602

PROJECT NUMBER:

23-00346-001

DATE:	SCALE:
6/3/2024	1" = 30'

PLAN SET:

CONCEPT PLAN

DRAWING TITLE:

STREETSCAPE PLAN

DRAWING NUMBER:

L-004

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ATTACHEMENT B -
COST ESTIMATES - STRATEGY 1

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Ann & Juniata Street Intersection (Thermoplastic Crosswalk Treatment)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	75	$5,250.00
	FULL DEPTH BITUMINOUS PAVEMENT (ALONG CURB)	SY	$120.00	125	$15,000.00
	MILL & OVERLAY OF INTERSECTION	SY	$30.00	450	$13,500.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	240	$28,800.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	275	$46,750.00
	STREET TREES	EA	$900.00	0	
	PEDESTRIAN LIGHTING	EA	$4,500.00	0	
	ELECTRICAL CONDUIT / WIRE / SERVICE CONNECTION	LF	$65.00	0	
	TRAFFIC PATTERN XD INTERSECTION TREATMENT	SF	$18.00	1,280	$23,040.00
	TOTAL MATERIAL COST				**$132,340.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$6,617.00	1	$6,617.00
	SUBTOTAL 1				**$138,957.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$16,675.00
	SUBTOTAL 2				**$155,632.00**
	MOBILIZATION (12% SUBTOTAL 2)				$18,676.00
	SUBTOTAL 3				**$174,308.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$34,862.00
	TOTAL				**$209,170.00**

Ann & Juniata Street Intersection (Raised Intersection w/ Full Thermoplastic across Intersection)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	250	$17,500.00
	FULL DEPTH BITUMINOUS PAVEMENT	SY	$120.00	450	$54,000.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	240	$28,800.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	275	$46,750.00
	TRAFFIC BOLLARDS	EA	$400.00	16	$6,400.00
	TRAFFIC PATTERN XD INTERSECTION TREATMENT	SF	$20.00	2,500	$50,000.00
	TOTAL MATERIAL COST				**$203,450.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$10,173.00	1	$10,173.00
	SUBTOTAL 1				**$213,623.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$25,635.00
	SUBTOTAL 2				**$239,258.00**
	MOBILIZATION (12% SUBTOTAL 2)				$28,711.00
	SUBTOTAL 3				**$267,969.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$53,594.00
	TOTAL				**$321,563.00**

Juniata - Lime to Ann (350 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	130	$9,100.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	15	$2,250.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	280	$33,600.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	550	$93,500.00
	STREET TREES	EA	$900.00	3	$2,700.00
	PEDESTRIAN LIGHTING	EA	$8,700.00	8	$69,600.00
	ELECTRICAL CONDUIT / WIRE / SERVICE CONNECTION	LF	$65.00	700	$45,500.00
	TOTAL MATERIAL COST				**$256,250.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$12,813.00	1	$12,813.00
	SUBTOTAL 1				**$269,063.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$32,288.00
	SUBTOTAL 2				**$301,351.00**
	MOBILIZATION (12% SUBTOTAL 2)				$36,162.00
	SUBTOTAL 3				**$337,513.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$67,503.00
	TOTAL				**$405,016.00**

Ann Street - Dauphin to Juniata (500 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	250	$17,500.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	25	$3,750.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	400	$48,000.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	780	$132,600.00
	STREET TREES	EA	$900.00	11	$9,900.00
	PEDESTRIAN LIGHTING	EA	$8,700.00	15	$130,500.00
	ELECTRICAL CONDUIT / WIRE / SERVICE CONNECTION	LF	$65.00	1,000	$65,000.00
	TOTAL MATERIAL COST				**$407,250.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$20,363.00	1	$20,363.00
	SUBTOTAL 1				**$427,613.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$51,314.00
	SUBTOTAL 2				**$478,927.00**
	MOBILIZATION (12% SUBTOTAL 2)				$57,471.00
	SUBTOTAL 3				**$536,398.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$107,280.00
	TOTAL				**$643,678.00**

Juniata - Ann to Stevens (700 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	300	$21,000.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	35	$5,250.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	550	$66,000.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	1,090	$185,300.00
	STREET TREES	EA	$900.00	7	$6,300.00
	PEDESTRIAN LIGHTING	EA	$8,700.00	17	$147,900.00
	ELECTRICAL CONDUIT / WIRE / SERVICE CONNECTION	LF	$65.00	1,400	$91,000.00
	TOTAL MATERIAL COST				**$522,750.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$26,138.00	1	$26,138.00
	SUBTOTAL 1				**$548,888.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$65,867.00
	SUBTOTAL 2				**$614,755.00**
	MOBILIZATION (12% SUBTOTAL 2)				$73,771.00
	SUBTOTAL 3				**$688,526.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$137,705.00
	TOTAL				**$826,231.00**

Juniata & Lime Street Intersection (Curb Adjutments & Thermoplastic Crosswalk Treatments)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	100	$7,000.00
	FULL DEPTH BITUMINOUS PAVEMENT	SY	$120.00	150	$18,000.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	380	$45,600.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	400	$68,000.00
	TRAFFIC PATTERN XD INTERSECTION TREATMENT	SF	$18.00	1,400	$25,200.00
	TOTAL MATERIAL COST				**$163,800.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$8,190.00	1	$8,190.00
	SUBTOTAL 1				**$171,990.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$20,639.00
	SUBTOTAL 2				**$192,629.00**
	MOBILIZATION (12% SUBTOTAL 2)				$23,115.00
	SUBTOTAL 3				**$215,744.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$43,149.00
	TOTAL				**$258,893.00**

Juniata - Rockland to Lime (350 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	130	$9,100.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	15	$2,250.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	280	$33,600.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	550	$93,500.00
	PEDESTRIAN LIGHTING	EA	$8,700.00	8	$69,600.00
	ELECTRICAL CONDUIT / WIRE / SERVICE CONNECTION	LF	$65.00	750	$48,750.00
	TOTAL MATERIAL COST				**$256,800.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$12,840.00	1	$12,840.00
	SUBTOTAL 1				**$269,640.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$32,357.00
	SUBTOTAL 2				**$301,997.00**
	MOBILIZATION (12% SUBTOTAL 2)				$36,240.00
	SUBTOTAL 3				**$338,237.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$67,647.00
	TOTAL				**$405,884.00**

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ATTACHEMENT C -
COST ESTIMATES - STRATEGY 2

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Ann & Juniata Street Intersection (Thermoplastic Crosswalk Treatment)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	75	$5,250.00
	FULL DEPTH BITUMINOUS PAVEMENT (ALONG CURB)	SY	$120.00	125	$15,000.00
	MILL & OVERLAY OF INTERSECTION	SY	$30.00	450	$13,500.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	240	$28,800.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	275	$46,750.00
	STREET TREES	EA	$900.00	0	
	PEDESTRIAN LIGHTING	EA	$4,500.00	0	
	ELECTRICAL CONDUIT / WIRE / SERVICE CONNECTION	LF	$65.00	0	
	TRAFFIC PATTERN XD INTERSECTION TREATMENT	SF	$18.00	1,280	$23,040.00
	TOTAL MATERIAL COST				**$132,340.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$6,617.00	1	$6,617.00
	SUBTOTAL 1				**$138,957.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$16,675.00
	SUBTOTAL 2				**$155,632.00**
	MOBILIZATION (12% SUBTOTAL 2)				$18,676.00
	SUBTOTAL 3				**$174,308.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$34,862.00
	TOTAL				**$209,170.00**

Ann & Juniata Street Intersection (Raised Intersection w/ Full Thermoplastic across Intersection)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	250	$17,500.00
	FULL DEPTH BITUMINOUS PAVEMENT	SY	$120.00	450	$54,000.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	240	$28,800.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	275	$46,750.00
	TRAFFIC BOLLARDS	EA	$400.00	16	$6,400.00
	TRAFFIC PATTERN XD INTERSECTION TREATMENT	SF	$20.00	2,500	$50,000.00
	TOTAL MATERIAL COST				**$203,450.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$10,173.00	1	$10,173.00
	SUBTOTAL 1				**$213,623.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$25,635.00
	SUBTOTAL 2				**$239,258.00**
	MOBILIZATION (12% SUBTOTAL 2)				$28,711.00
	SUBTOTAL 3				**$267,969.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$53,594.00
	TOTAL				**$321,563.00**

Juniata - Lime to Ann; Pedestrian Facilities (350 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	130	$9,100.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	15	$2,250.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	280	$33,600.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	550	$93,500.00
	ELECTRICAL CONDUIT / HANDHOLES	LF	$30.00	700	$21,000.00
	TOTAL MATERIAL COST				**$159,450.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$7,973.00	1	$7,973.00
	SUBTOTAL 1				**$167,423.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$20,091.00
	SUBTOTAL 2				**$187,514.00**
	MOBILIZATION (12% SUBTOTAL 2)				$22,502.00
	SUBTOTAL 3				**$210,016.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$42,003.00
	TOTAL				**$252,019.00**

Juniata - Lime to Ann, Lighting & Street Trees

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	STREET TREES	EA	$900.00	3	$2,700.00
	PEDESTRIAN LIGHTING	EA	$8,700.00	8	$69,600.00
	ELECTRICAL WIRE / SERVICE CONNECTION	LF	$35.00	700	$24,500.00
	TOTAL MATERIAL COST				**$96,800.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$4,840.00	1	$4,840.00
	SUBTOTAL 1				**$101,640.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$12,197.00
	SUBTOTAL 2				**$113,837.00**
	MOBILIZATION (12% SUBTOTAL 2)				$13,660.00
	SUBTOTAL 3				**$127,497.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$25,499.00
	TOTAL				**$152,996.00**

Ann Street - Dauphin to Juniata; Pedestrian Facilities (500 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	250	$17,500.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	25	$3,750.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	400	$48,000.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	780	$132,600.00
	ELECTRICAL CONDUIT / HANDHOLES	LF	$30.00	1,000	$30,000.00
	TOTAL MATERIAL COST				**$231,850.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$11,593.00	1	$11,593.00
	SUBTOTAL 1				**$243,443.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$29,213.00
	SUBTOTAL 2				**$272,656.00**
	MOBILIZATION (12% SUBTOTAL 2)				$32,719.00
	SUBTOTAL 3				**$305,375.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$61,075.00
	TOTAL				**$366,450.00**

Ann Street - Dauphin to Juniata; Lighting & Street Trees

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	STREET TREES	EA	$900.00	11	$9,900.00
	PEDESTRIAN LIGHTING	EA	$8,700.00	15	$130,500.00
	ELECTRICAL WIRE / SERVICE CONNECTION	LF	$35.00	1,000	$35,000.00
	TOTAL MATERIAL COST				**$175,400.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$8,770.00	1	$8,770.00
	SUBTOTAL 1				**$184,170.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$22,100.00
	SUBTOTAL 2				**$206,270.00**
	MOBILIZATION (12% SUBTOTAL 2)				$24,752.00
	SUBTOTAL 3				**$231,022.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$46,204.00
	TOTAL				**$277,226.00**

Juniata - Ann to Stevens; Pedestrian Facilities (700 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	300	$21,000.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	35	$5,250.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	550	$66,000.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	1,090	$185,300.00
	ELECTRICAL CONDUIT / HANDHOLES	LF	$30.00	1,400	$42,000.00
	TOTAL MATERIAL COST				**$319,550.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$15,978.00	1	$15,978.00
	SUBTOTAL 1				**$335,528.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$40,263.00
	SUBTOTAL 2				**$375,791.00**
	MOBILIZATION (12% SUBTOTAL 2)				$45,095.00
	SUBTOTAL 3				**$420,886.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$84,177.00
	TOTAL				**$505,063.00**

Juniata - Ann to Stevens; Lighting & Street Trees

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	STREET TREES	EA	$900.00	7	$6,300.00
	PEDESTRIAN LIGHTING	EA	$8,700.00	17	$147,900.00
	ELECTRICAL WIRE / SERVICE CONNECTION	LF	$35.00	1,400	$49,000.00
	TOTAL MATERIAL COST				**$203,200.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$10,160.00	1	$10,160.00
	SUBTOTAL 1				**$213,360.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$25,603.00
	SUBTOTAL 2				**$238,963.00**
	MOBILIZATION (12% SUBTOTAL 2)				$28,676.00
	SUBTOTAL 3				**$267,639.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$53,528.00
	TOTAL				**$321,167.00**

Juniata & Lime Street Intersection (Curb Adjutments & Thermoplastic Crosswalk Treatments)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	100	$7,000.00
	FULL DEPTH BITUMINOUS PAVEMENT	SY	$120.00	150	$18,000.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	380	$45,600.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	400	$68,000.00
	TRAFFIC PATTERN XD INTERSECTION TREATMENT	SF	$18.00	1,400	$25,200.00
	TOTAL MATERIAL COST				**$163,800.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$8,190.00	1	$8,190.00
	SUBTOTAL 1				**$171,990.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$20,639.00
	SUBTOTAL 2				**$192,629.00**
	MOBILIZATION (12% SUBTOTAL 2)				$23,115.00
	SUBTOTAL 3				**$215,744.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$43,149.00
	TOTAL				**$258,893.00**

Juniata - Rockland to Lime; Pedestrian Facilities (350 LF)

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	CLASS I EXCAVATION	CY	$70.00	130	$9,100.00
	BITUMINOUS PAVEMENT PATCH	SY	$150.00	15	$2,250.00
	PLAIN CEMENT CONCRETE CURB	LF	$120.00	280	$33,600.00
	CEMENT CONCRETE SIDEWALK	SY	$170.00	550	$93,500.00
	ELECTRICAL CONDUIT / HANDHOLES	LF	$30.00	750	$22,500.00
	TOTAL MATERIAL COST				**$160,950.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$8,048.00	1	$8,048.00
	SUBTOTAL 1				**$168,998.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$20,280.00
	SUBTOTAL 2				**$189,278.00**
	MOBILIZATION (12% SUBTOTAL 2)				$22,713.00
	SUBTOTAL 3				**$211,991.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$42,398.00
	TOTAL				**$254,389.00**

Juniata - Rockland to Lime; Lighting

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	COST
	PEDESTRIAN LIGHTING	EA	$8,700.00	8	$69,600.00
	ELECTRICAL WIRE / SERVICE CONNECTION	LF	$35.00	750	$26,250.00
	TOTAL MATERIAL COST				**$95,850.00**
	EROSION AND SEDIMENT CONTROL (5% MATERIAL COSTS)	LS	$4,793.00	1	$4,793.00
	SUBTOTAL 1				**$100,643.00**
	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION (12% SUBTOTAL 1)				$12,077.00
	SUBTOTAL 2				**$112,720.00**
	MOBILIZATION (12% SUBTOTAL 2)				$13,526.00
	SUBTOTAL 3				**$126,246.00**
	CONTINGENCIES (20.0% SUBTOTAL 3)				$25,249.00
	TOTAL				**$151,495.00**

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