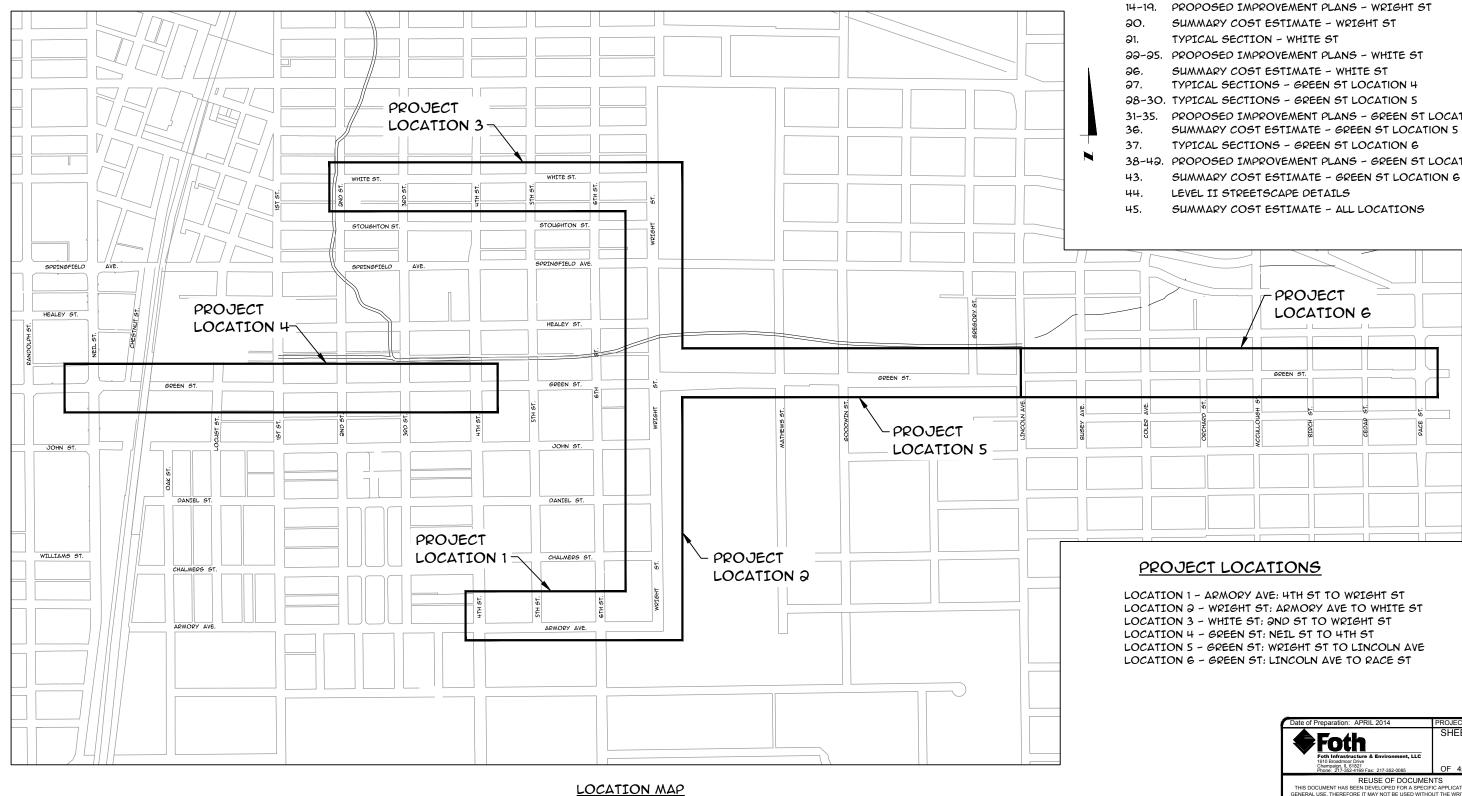
ARMORY AVE, WRIGHT ST, GREEN ST, AND WHITE ST

Champaign and Urbana, Illinois Champaign County



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1	Date of Preparation: APRIL 2014	PROJECT ID 12C007.00
		SHEET NO.
	Foth Infrastructure & Environment, LLC	1
	Champaign, IL 61821 Phone: 217-352-4169 Fax: 217-352-0085	OF 45 SHEETS
13	REUSE OF DOCUMEN THIS DOCUMENT HAS BEEN DEVELOPED FOR A SPECIF GENERAL USE. THEREFORE IT MAY NOT BE USED WITHO FOTH INFRASTRUCTURE AND ENVIRONMENT, LLC. UN RESPONSIBILITY OF THE UNAUTHOR	IC APPLICATION AND NOT FOR UT THE WRITTEN APPROVAL OF APPROVED USE IS THE SOLE
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#### BACKGROUND

This project consists of a pedestrian/bicycle/bus corridor that connects Downtown Champaign and Downtown Urbana with the campus of the University of Illinois. The goal of this corridor is to promote compact development and mixed-use form to create a more walkable, sustainable, and efficient development pattern that is safe for all users, consistent with the Champaign-Urbana urbanized area's Long Range Transportation Plan (LRTP).

The LRTP mission is to provide a safe, efficient, and economical transportation system that makes the best use of existing infrastructure, optimizes mobility, promotes environmental sensitivity, sustainability, accessibility, economic development, and enhances quality of life for all users. The regional vision for the area centers around offering multi-modal transportation facilities for its residents to promote mode shift and reduce single-occupancy vehicle trips.

The vision includes focusing development and redevelopment along the existing transportation network, utilizing complete streets design for new construction and reconstruction of roadways, providing multi-modal transportation facilities for all transportation system users, increasing mode share with bicyclists, pedestrians and transit riders, and overall improving the efficiency of the transportation network. The improvements proposed in this set of plans are consistent with this vision. The proposed design is also consistent with the Campus Area Transportation Study's mission "To better accommodate pedestrian, bicycle, transit, and vehicle movements in a more user-friendly environment"

The streets within the proposed corridor are subject to three different jurisdictional agencies. It addition to the multi-modal missions above, the proposed design took into account the various agency plans and policies already in place. The proposed design can be constructed within the existing roadway right-of-way and has received endorsement from all involved agencies.

## SUMMARY OF IMPROVEMENTS

## Armory Avenue - 4th Street to Wright Street

No curb changes are proposed on the segment from 4th Street to 6th Street. The existing street is newer concrete pavement at 32' wide. The proposed design includes restriping the street from a westbound parking lane and a vehicle lane in each direction to a 5' wide bike lane in each direction and an 11' vehicle lane in each direction. As bicycles would now be accommodated on the street, the striping on the existing off-street bike path along the south side of Armory Avenue would be removed and that area would become sidewalk.

In the segment from 6th Street to Wright Street, the north curb line remains in place and the south curb line is set at a 34' wide street. The typical section includes an 11' eastbound bus only lane, an 11' westbound bus/vehicle lane, and a 6' bike lane in each direction. The existing parallel parking along the north side of the street would be removed. The existing off-street bike lane along the south side of Armory Avenue would be removed and that area would become green space. The street pavement would be completely removed and replaced with concrete pavement. The intersection of Armory Avenue and Wright Street would be widened to allow two-way turning bus traffic at the intersection.

The corridor improvements also include: decorative street lighting; streetscape elements; bus stops at Armory Avenue and 5th Street; bus prioritization at the traffic signal at Armory Avenue and 5th Street.

#### Wright Street - Armory Avenue to White Street

In the segments from Armory Avenue to Daniel Street and John Street to Green Street, the west curb line remains in place and the east curb line is set at a 43' wide street. The typical section includes an 8' southbound parking lane, a 7' southbound bike lane, an 11' southbound bus/vehicle lane, an 11' northbound bus only lane, and a 6' northbound bike lane. The existing two-way cycle track-type bicycle facility along the east side of Wright Street would become green space. The street pavement would be completely removed and replaced with concrete pavement.

In the segment from Daniel Street to John Street, the west curb line would be moved east to remove the existing bus loading zone along the west side of Wright Street. This area would become sidewalk to accommodate bus stops with amenities such as shelters and benches. The existing raised transit plaza would be removed and the east curb line is set at 35'. The typical section includes an 18' southbound shared bus/bike only lane and a 17' northbound shared bus/bike only lane. Shared lane markings would be placed on the street, not bike lanes. The reason for this configuration in this block is due to the location being a main transit plaza. Buses will constantly be pulled over to the curb and bicyclists will need to pass the buses on the left. Rather than striping a bike lane that bicyclists will rarely be able to use due to buses being pulled over it, shared lane markings will be used. The existing two-way cycle track-type bicycle facility along the east side of Wright Street would become green space. The street pavement would be removed and replaced with concrete pavement.

Both curb lines remain in place in the segment from Green Street to Healey Street. The typical section, as set from the east curb line, includes an 8' parking lane in each direction, and 11' bus/vehicle lane in each direction, and a 6' bike lane in each direction. The existing angled parking on the west side of the street is converted to parallel parking. The street pavement would be completely removed and replaced with concrete pavement. The installation of bike boxes at the intersection of Wright Street and Green Street is being considered and will be studied further.

Both curb lines remain in place in the south half of the block from Healey Street to Springfield Avenue. The typical section, as set from the east curb line, includes an 8' bus loading lane in each direction, and 11' bus/vehicle lane in each direction, and a 6' bike lane in each direction of the block, the east curb line is set at a 45' wide street. The typical section is an 11' bus/vehicle lane in each direction, and an 11' left turn lane at the intersection of Wright Street and Springfield Avenue. The street pavement would be completely removed and replaced with concrete pavement.

Both curb lines also remain in place in the segment from Springfield Avenue to White Street. The typical section includes an 8' parking lane in each direction, an 11' bus/vehicle lane in each direction, and a 6.5' bike lane in each direction. The existing pavement remains in place.

The corridor improvements also include: decorative street lighting; streetscape elements; bus stops at Wright Street and Armory Avenue, Wright Street between John Street and Daniel Street, Wright Street and Wright Street and Stoughton Street; a bus pull-off for rehabilitation buses at the English Building; decorative fencing; bus prioritization at the traffic signal at Wright Street and Springfield Avenue; and replacement of the Boneyard Creek box culvert.

#### White Street - 2nd Street to Wright Street

This corridor includes complete removal of curb and gutter and pavement and replacement with a new 33' wide concrete street with B6.18 curb and gutter. The typical section includes an 11' vehicle lane in each direction and a 5.5' bike lane in each direction.

The corridor improvements also include: decorative street lighting; streetscape elements; bus stops at White Street and Wright Street, White Street and 4th Street, and White Street and 6th Street; and a possible traffic signal at White Street and 4th Street.

## Green Street - Wright Street to Lincoln Avenue

Due to the existing cross-section of Green Street west of Wright Street, both curb lines remain in place in the segment from Wright Street to the Illini Union entrance. Eastbound, the outside lane becomes a shared bus/bike only lane and the inside lane becomes a vehicle lane. Westbound, all lanes are shared.

In the segments from the Illini Union entrance to the Illini Union exit and from Goodwin Avenue to Lincoln Avenue, the south curb line remains in place. The eastbound lanes are set at a total width of 27'. The center median remains and the westbound lanes are set from the north curb line of the median at 27'. The typical section then includes a 6' bike lane in each direction, an 11' bus only lane in each direction, and a 10' vehicle lane in each direction. The street pavement would be milled and resurfaced. The installation of bike boxes at the intersection of Green Street and Goodwin Avenue is being considered and will be studied further.

In the segment from the Illini Union exit to Goodwin Avenue, the south curb line remains in place and the north curb line is set at a 65' wide street. The center median is removed. The typical section includes a 6' bike lane in each direction, an 11' bus only lane in each direction, a 10' vehicle lane in each direction and an 11' left turn lane. The street pavement would be milled and resurfaced.

The corridor improvements also include: decorative street lighting; bus prioritization at Green Street and Goodwin Avenue and at Green Street and Lincoln Avenue; decorative railing; a retaining wall at a bus stop; and bus stops at Green Street and the Illini Union, Green Street and Engineering Hall, Green Street and Goodwin Avenue, Green Street and Illinois Street Residence Halls, and Green Street and Daniels Hall.

#### Green Street - 4th Street to Neil Street

This project will entail complete street and infrastructure design along the main corridor entrance to the University of Illinois Campustown area. The final cross-section has not been set, however, reconstruction will include traffic calming strategies and on-street bicycle lanes. The project also includes utility coordination and studies, drainage studies and design of new storm sewers to alleviate existing localized flooding problems,. The project will include extensive public information meetings and input from project stakeholders and special interest groups, including members of the Campustown Area Transportation Study (CATS). Construction staging and phasing will allow continuous access to the businesses located within the project during construction and accommodations for the heavy pedestrian traffic along this corridor right-of-way.

The corridor improvements also include: decorative street lighting; streetscape elements; and bus stops at Neil Street, Locust Street, 2nd Street and 4th Street.

## BICYCLE LEVEL OF SERVICE

Bicycle Level Of Service (BLOS) is an emerging national standards for quantifying the *on-street* "bike-friendliness" of a roadway. While other "level-of-service" indices relate to traffic capacity, BLOS measures indicate bicyclist comfort level for specific roadway geometries and traffic conditions. Roadways with a better (lower) score are more attractive (and usually safer) for cyclists.

Children and novice riders typically feel comfortable riding on facilities with a BLOS grade of A. Casual adult cyclists typically feel comfortable riding on facilities with a BLOS grade of C or higher. Advanced cyclists typically feel comfortable riding on facilities with a BLOS grade lower than C.

Factors that determine the BLOS of a road include: average daily traffic; percentage of heavy truck traffic; speed limit; width of pavement; percent of occupied on-street parking; and pavement condition.

The existing and proposed BLOS was calculated for each of the project segments and are summarized in the table below. Note that the calculations are for <u>on-street</u> conditions so the presence of existing sub-standard off-street bicycle facilities was not a factor in the calculations.

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Armory Ave Armory Ave

Armory Ave Armory Ave

Armory Ave

Wright Stre Wright Stre Wright Stre Wright Stre Wright Stre

Wright Stre Wright Stre Wright Stre

Wright Stre Wright Stre Wright Stre Wright Stre

## White Stree

Green Stre

			Bicycle	ting e Level rvice		osed e Level rvice
			BLOS Score	BLOS Grade	BLOS Score	BLOS Grade
ad Name	From	То		AF		AF
/enue - EB	4th Street	5th Street	3.66	D	2.67	С
/enue - EB	5th Street	6th Street	3.66	D	2.67	С
/enue - EB	6th Street	Wright Street	3.36	С	1.42	A
/enue - WB	4th Street	5th Street	2.60	С	2.70	С
/enue - WB	5th Street	6th Street	3.49	С	2.70	С
/enue - WB	6th Street	Wright Street	3.27	С	1.42	Α
		_				
eet - NB	Armory Ave	Daniel St	1.68	в	2.58	С
eet - NB	Daniel St	John St	3.69	D	3.41	С
eet - NB	John St	Green St	4.19	D	2.48	В
eet - NB	Green St	Healey St	0.00	Α	1.53	В
eet - NB	Healey St	Springfield Ave	1.38	Α	-2.63	Α
eet - NB	Springfield Ave	White St	-0.78	Α	-2.34	Α
eet - SB	Armory Ave	Daniel St	2.54	С	0.48	Α
eet - SB	Daniel St	John St	3.39	С	3.31	С
eet - SB	John St	Green St	1.61	В	1.35	Α
eet - SB	Green St	Healey St	3.21	С	-0.68	Α
eet - SB	Healey St	Springfield Ave	-3.48	Α	-2.63	Α
eet - SB	Springfield Ave	White St	-0.98	Α	-1.86	Α
et	2nd Street	Wright Street	3.01	С	1.17	Α
eet	Wright Street	Goodwin Ave	3.85	D	1.68	В
eet	Goodwin Ave	Lincoln Ave	3.71	D	1.53	В

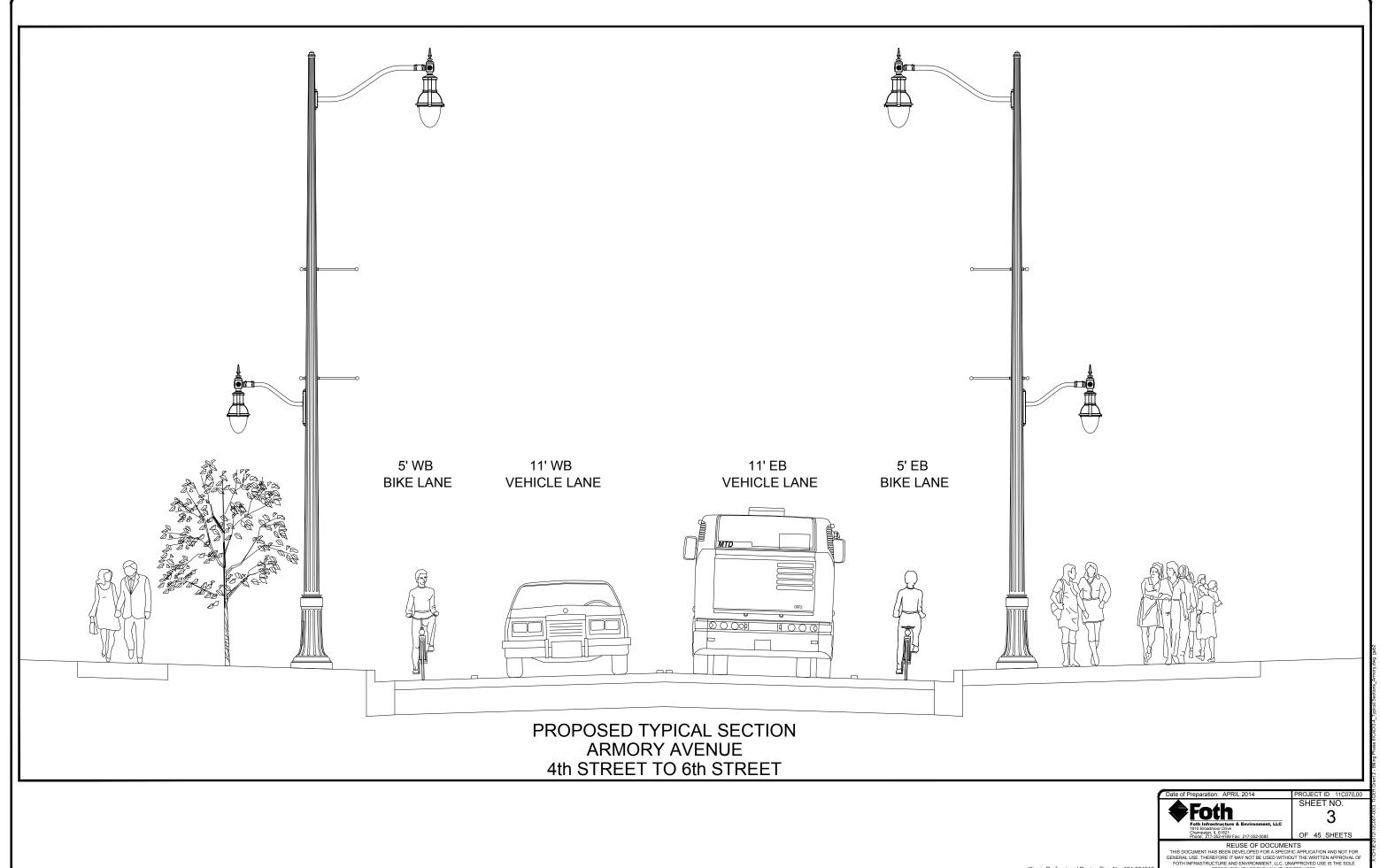
BLOS Grades & Scores

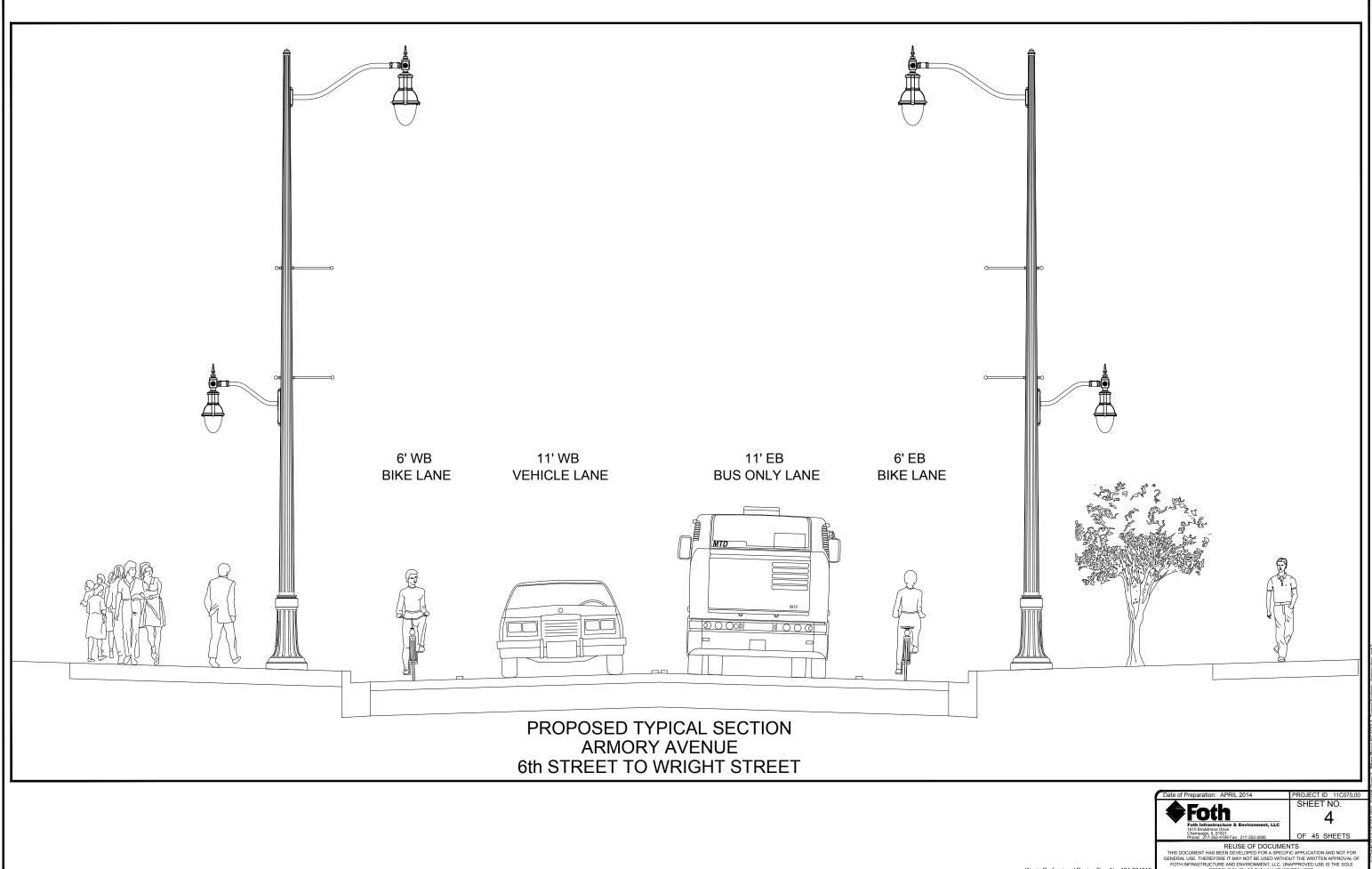
 $\begin{array}{l} B > 1.5 \mbox{ and } \leq 2.5 \\ C > 2.5 \mbox{ and } \leq 3.5 \\ D > 3.5 \mbox{ and } \leq 4.5 \\ E > 4.5 \mbox{ and } \leq 5.5 \end{array}$ 

A ≤1.5

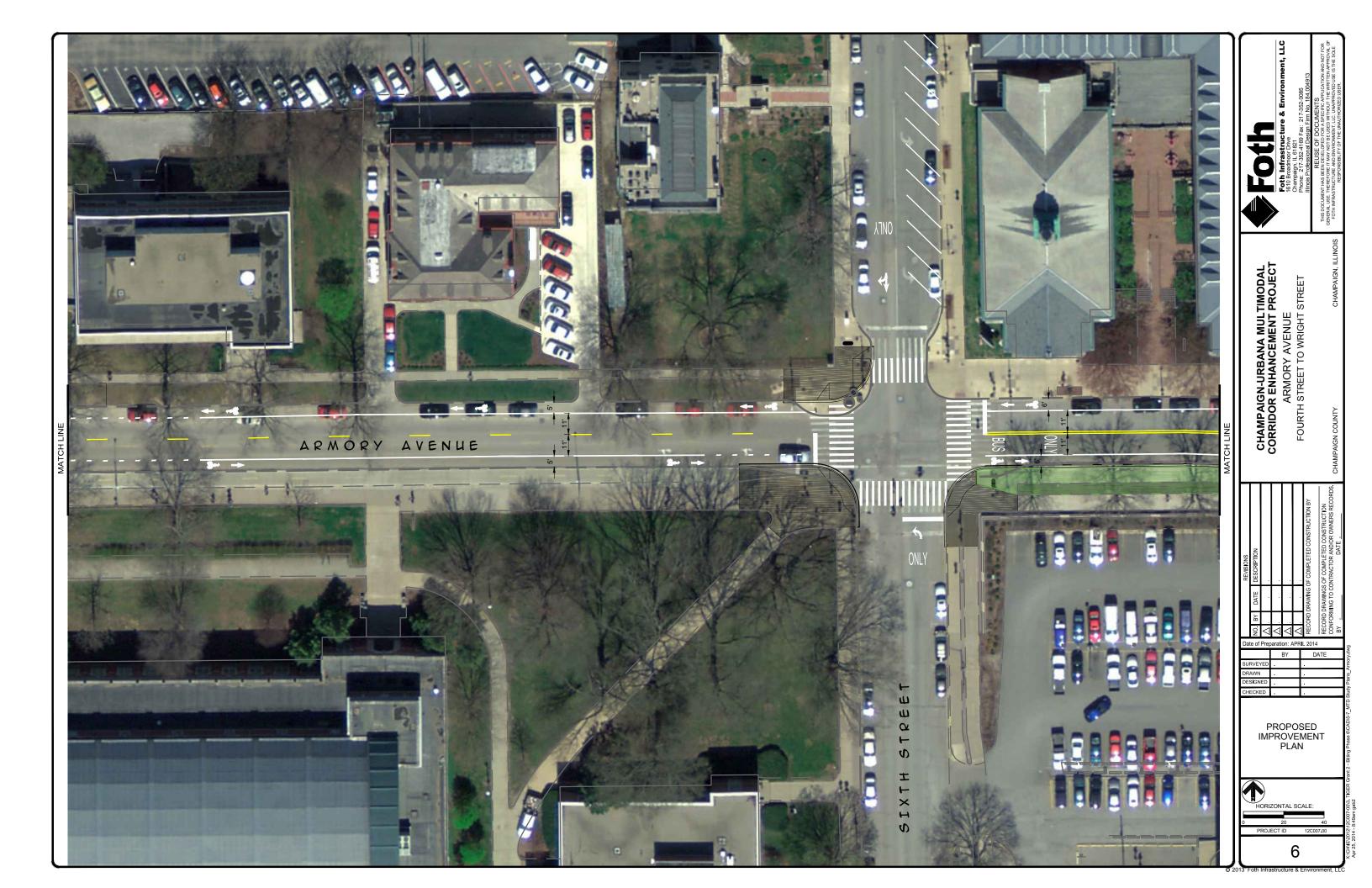
F > 5.5

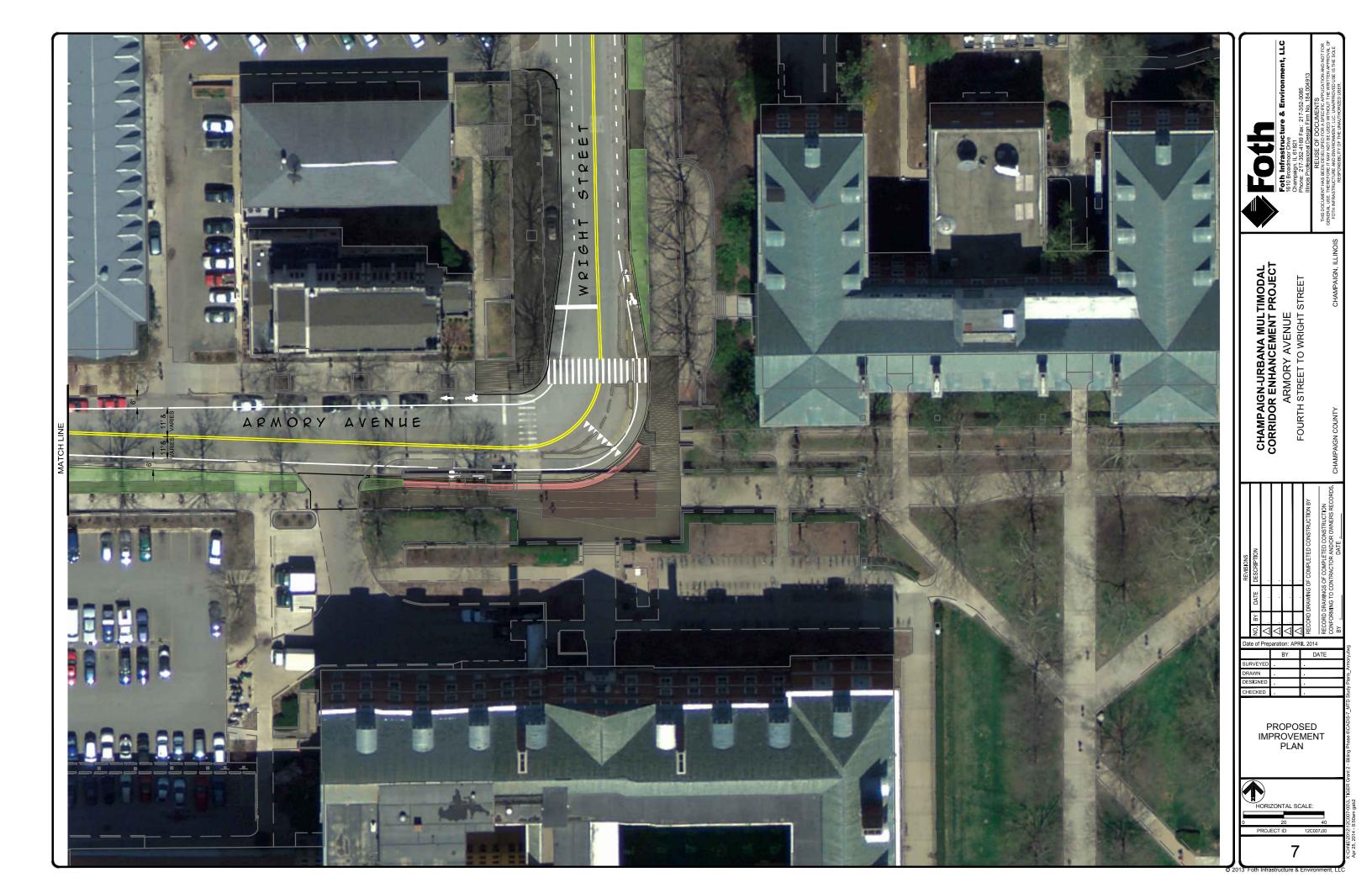








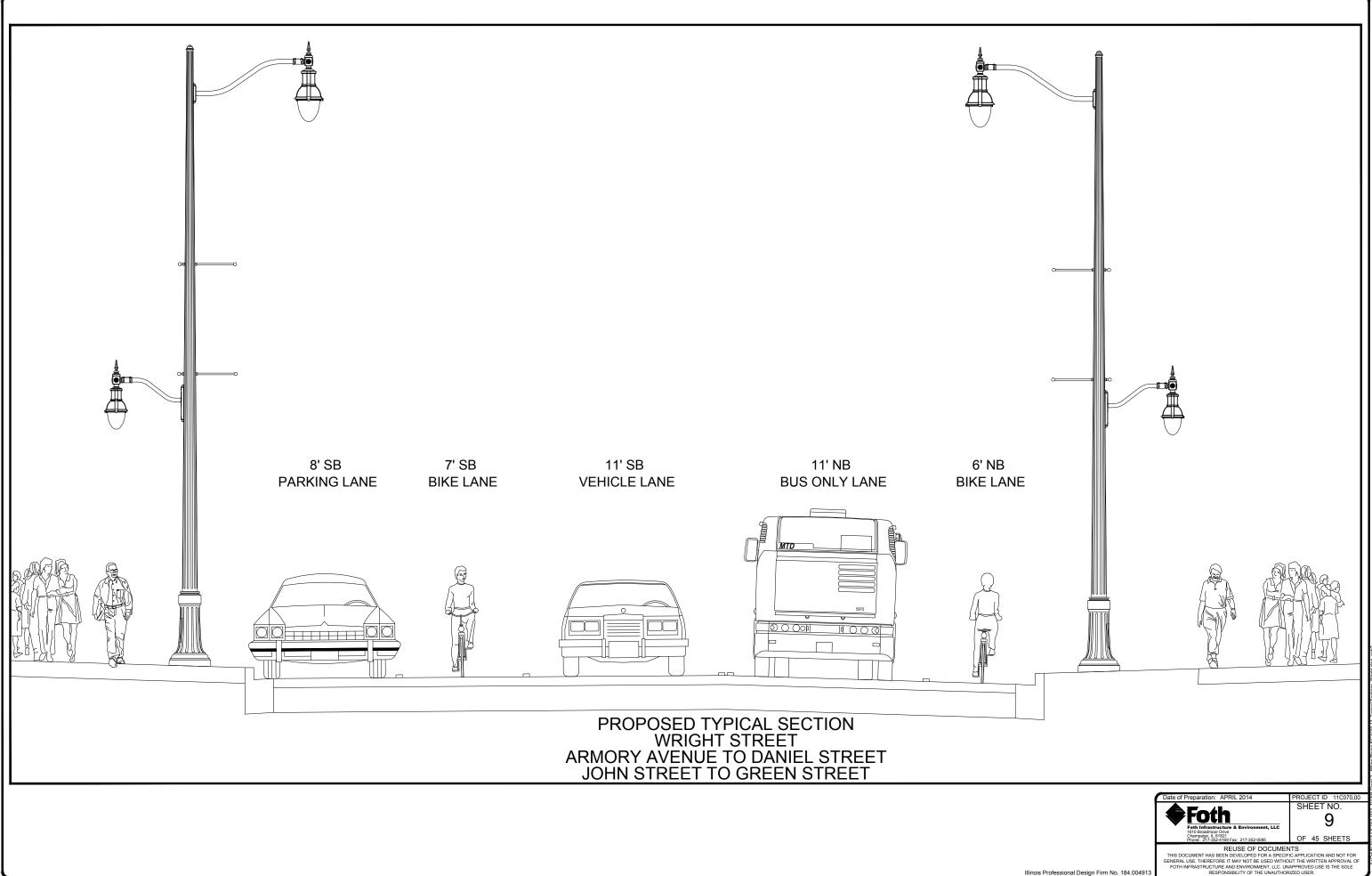


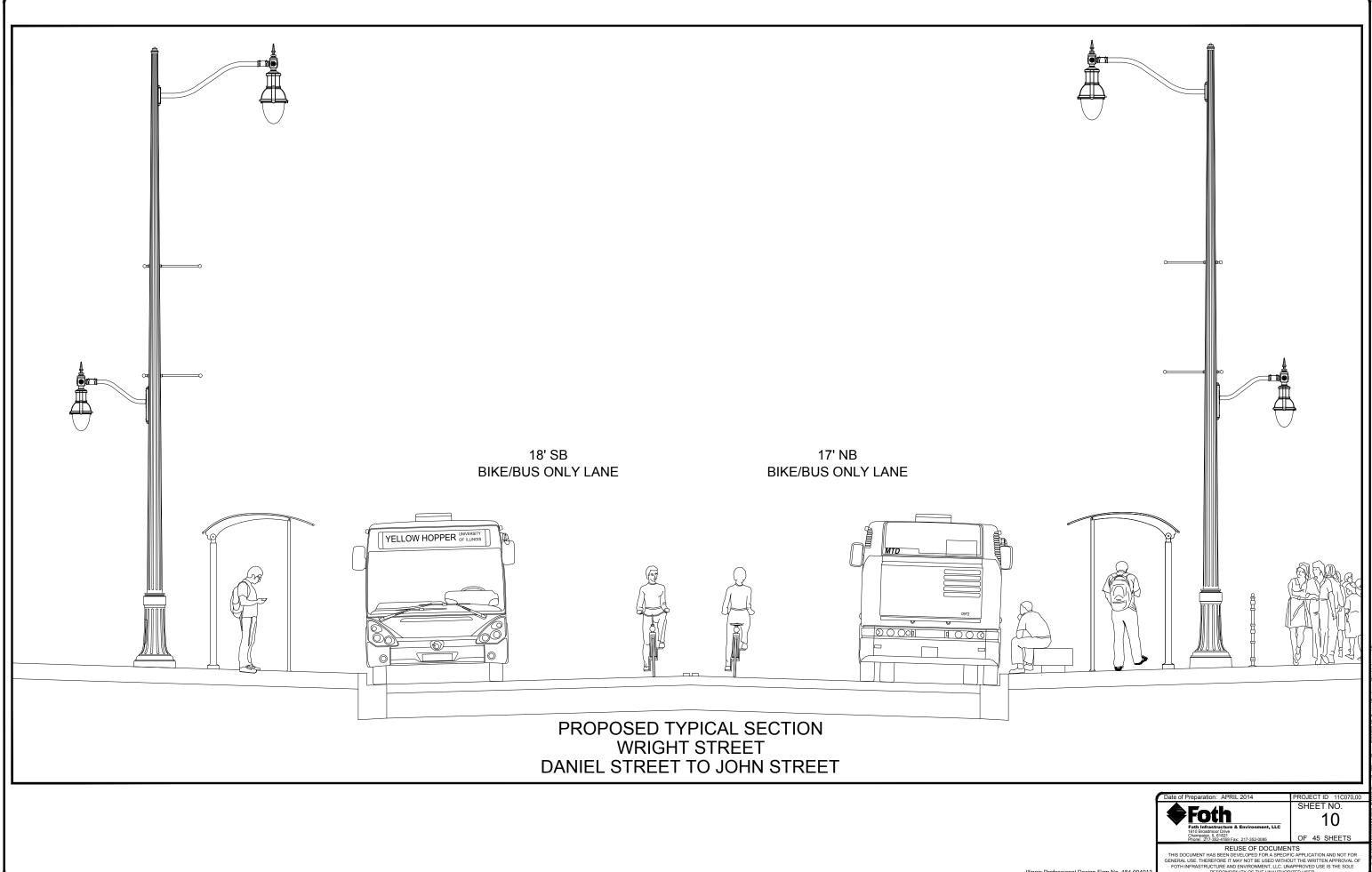


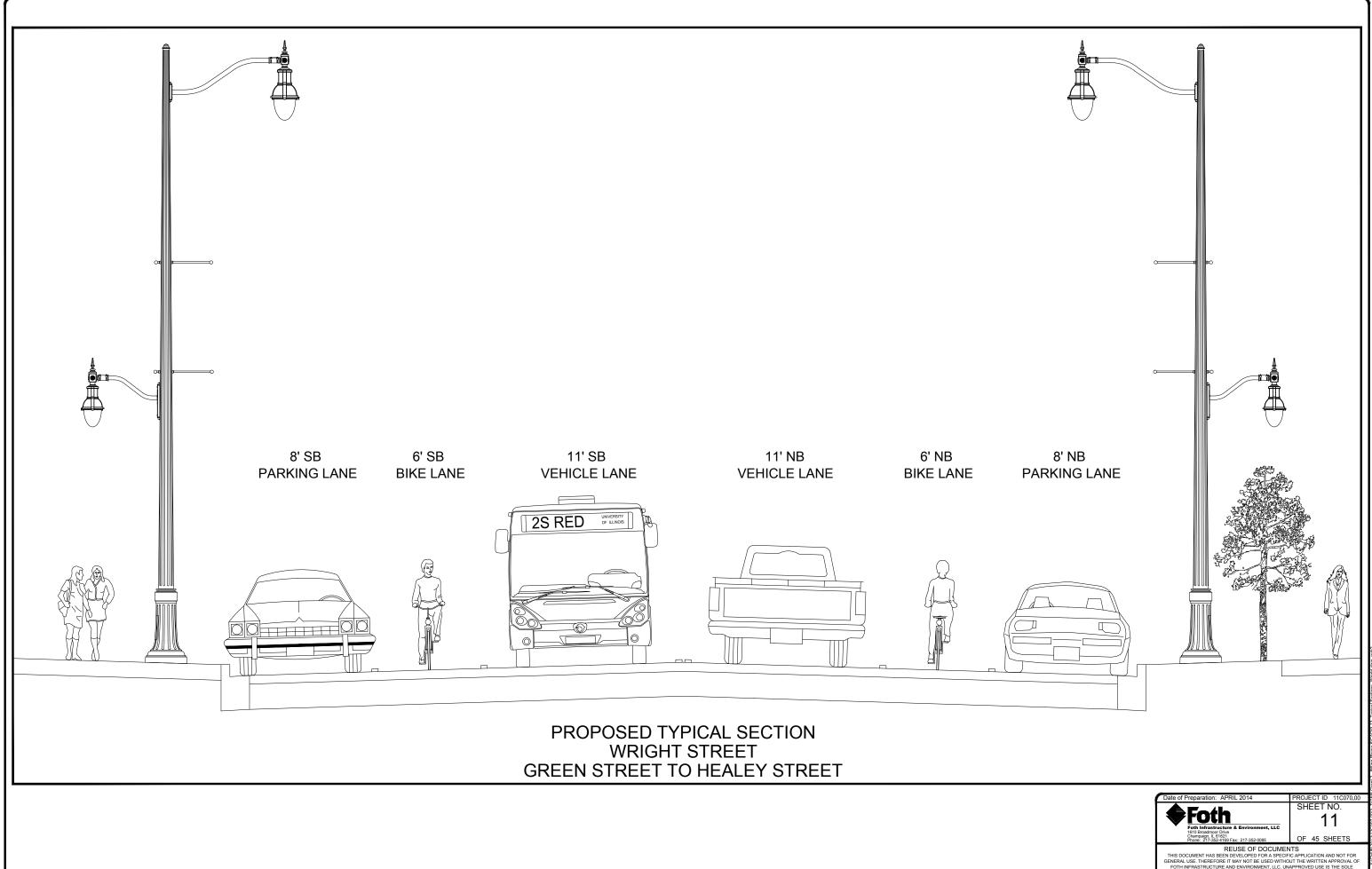
PROGRAM DEVELOPMENT QUANTITIES SUMMARY COST ESTIMATE ARMORY AVENUE: 4th Street to Wright Street

	CHAMPAIGN-URBANA MASS TRAN SMALL STARTS GRANT ARMORY AVENU		T		
	PAYITEM	UNIT	QUANTITY	UNIT PRICE 2014 CONST.	TOTAL
OADWAY I	IFRASTRUCTURE	1	1943	T constant	
	TREE PROTECTION	EA	7	\$550.00	\$3,850
	ROADWAY PAVEMENT REMOVAL	SY	1800	\$22.00	\$39,600
	CURB AND GUTTER REMOVAL	LF	500	\$25.00	\$12,500
	DRIVEWAY REMOVAL	SY	90	\$30.00	\$2,700
		SF	11750	\$2.50	\$29,375
	PAVMENT MARKING REMOVAL (ALL INCLUSIVE)	SF	250	\$6.00	\$1,500
	REMOVE PARKING METERS	EACH	22	\$200.00	\$4,400
	RETAINING WALL REMOVAL EARTH EXCAVATION (ROADWAY WIDENING)	LF	150	\$82.50	\$12,375
	EROSION CONTROL	CU YD L SUM	100	\$25.00	\$2,500
	STORM SEWER IMPROVEMENTS	L SUM	1	\$5,000.00	\$30,000
	MANHOLE/INLET/UTILITY VALVE ADJUSTMENTS	EACH	15	\$1,000.00	\$15,000
	PORTLAND CEMENT CONCRETE PAVEMENT, S.R., 8"	SY	1970	\$72.50	\$15,000
	PORILAND CEMENT CONCRETE PRVEMENT, S.R., 6 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7", N.R.	SY	50	\$55.00	\$2,750
	PCC CURB AND GUTTER	UF	620	\$45.00	\$27,900
	CONCRETE SIDEWALK, 6"	SF	6420	\$8.50	\$54,570
	ADJACENT SITE SIDEWALK RETAINING WALL	LSUM	1	\$75,000.00	\$75,000
	PAVEMENT MARKING (ALL ITEMS INCLUSIVE)	LEG	1275	\$13.00	\$16,575
	SIGNS AND POSTS	EACH	10	\$150.00	\$1,500
	STREETSCAPE LIGHTING, LEVEL 1	BLOCK	3	\$49.000.00	\$147,000
	STREETSCAPE, LEVEL 1, STREET BLOCKS	LF	1280	\$150.00	\$192,000
	STREETSCAPE, LEVEL 1, INTERSECTIONS	SF	2250	\$25.00	\$56,250
	GREEN SPACE (TOPSOIL/SOD/SEED/FERTILIZER/WATER/PLANTINGS)	SF	2800	\$20.00	\$56,000
	GENERAL DEMOLITION (2%)	LSUM	1	\$30,000.00	\$30,000
	TRAFFIC CONTROL (1%)	LSUM	1	\$15,000.00	\$15,000
	MOBILIZATION (2%)	LSUM	1	\$30,000.00	\$30,000
	TESTING AND SAMPLING (1.5%)	LSUM	1	\$22,500.00	\$22,500
	CONSTRUCTION STAKING (2%)	LSUM	1	\$30,000.00	\$30,000
JETOTAL	ROADWAY				\$1,058,67
US ENHAN					
	EXISTING MTD BUS SHELTER/REALTIME SIGN REMOVAL	EA	2	\$2,000.00	\$4,000
	AMENITIES - PADS, SHELTERS, REAL TIME SIGNS, BRANDING	EA	2	\$100,000.00	\$200,000
	TRAFFIC SIGNAL MODIFICATIONS - PREEMPTION @ ARMORY & 6TH	EA	<u></u>	\$10,000.00	\$10,000
JETOTAL	BUS STOPS				\$214,000
ONTINGEN	CYITEMS				
	SIXTH STREET PAVEMENT MARKINGS	LF	700	\$13.00	\$9,100
	TRAFFIC SIGNAL @ ARMORY & 4TH	LSUM	्र	\$250,000.00	\$250,000
	GENERAL UTILITY RELOCATION	LSUM	:1	\$100,000.00	\$100,000
	ESTIMATE CONTINGENCY (20%)	LSUM	1	\$326,355	\$326,355
JETOTAL	CONTINGENCY				\$685,455
	PROFESSIONAL FEES (20% = PLANNING, SURVEY, DESIGN, CONSTRUCTION)	LSUM	<b>1</b>	\$391,000.00	\$391,000.0

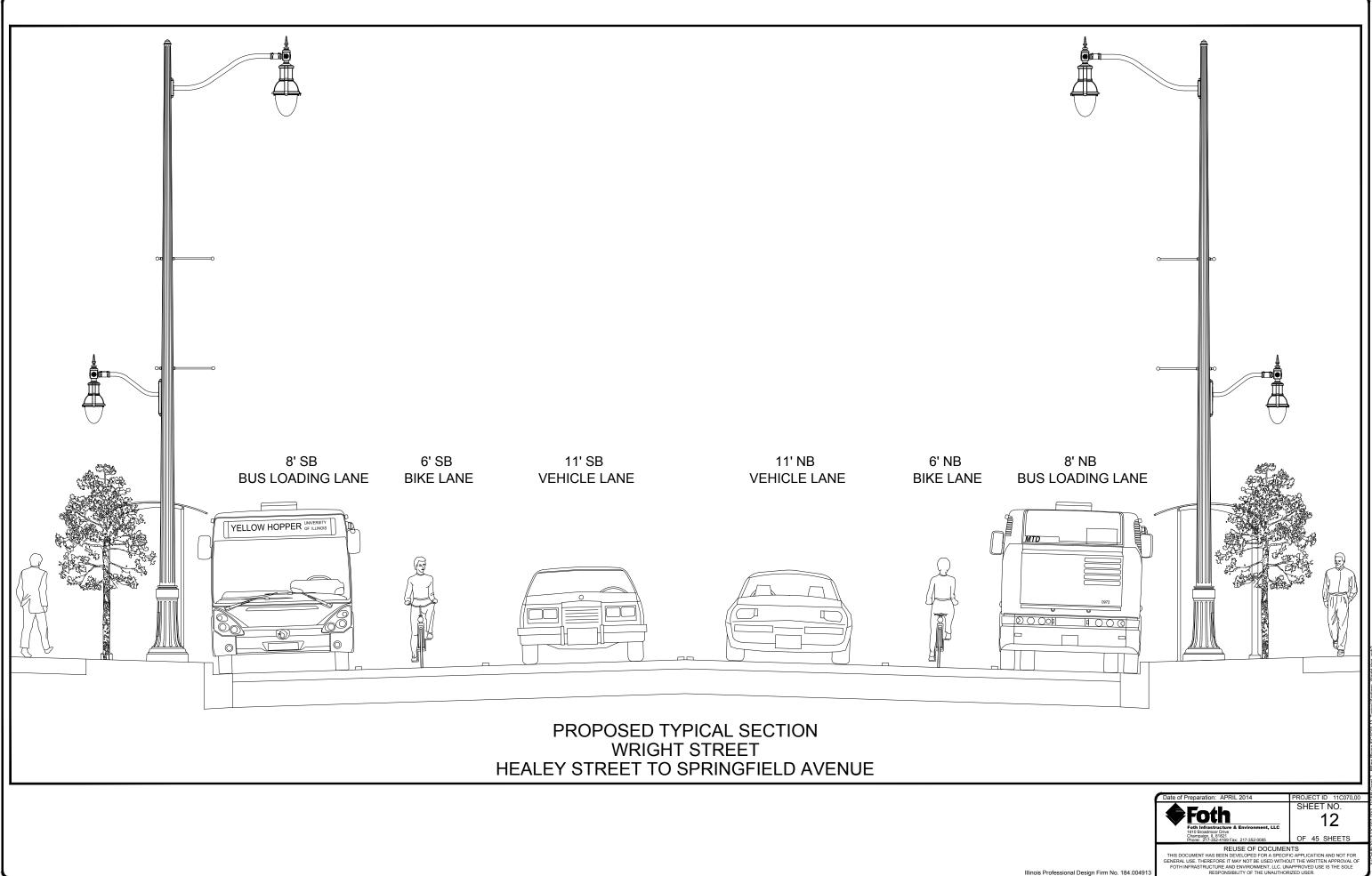






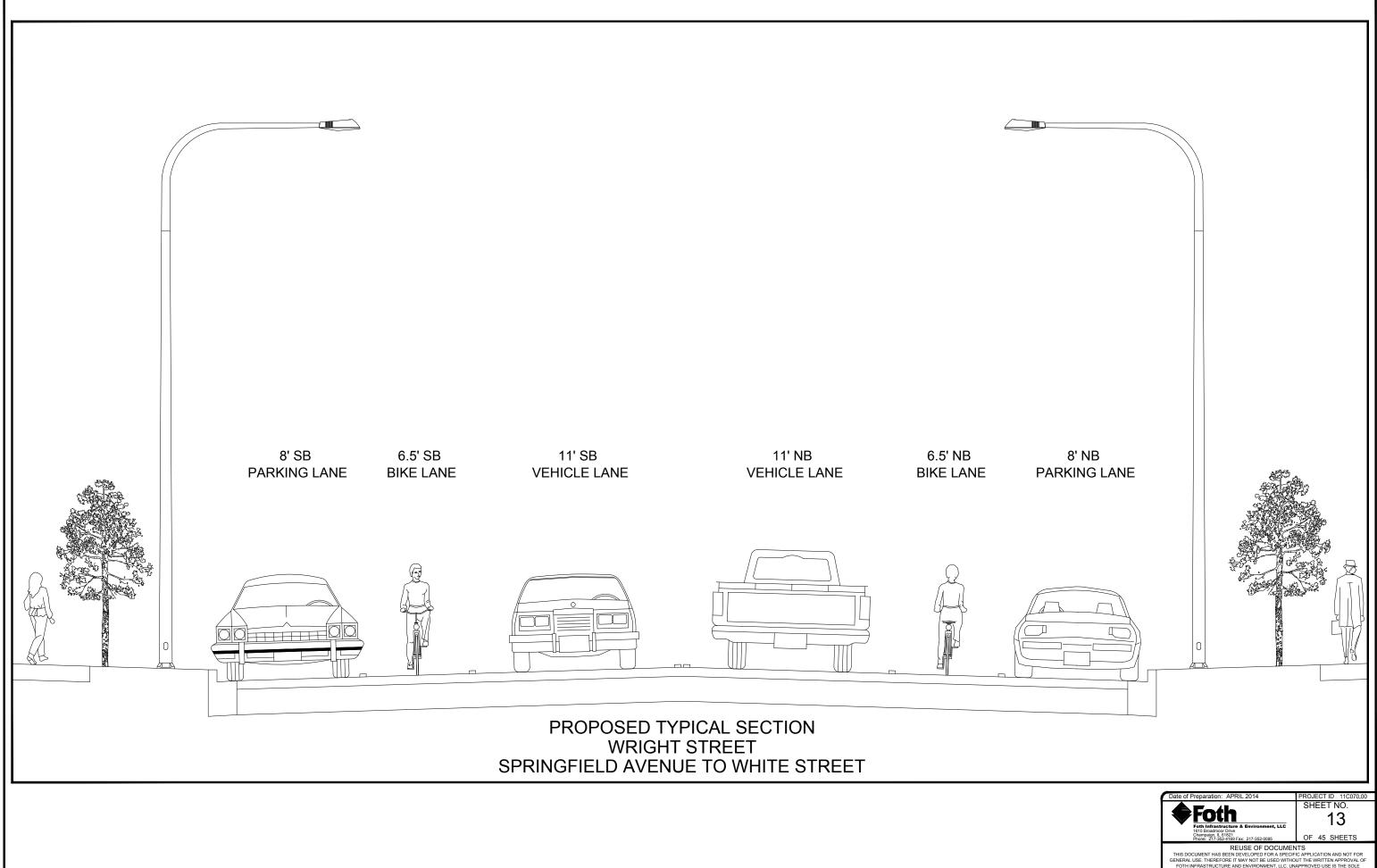


2HIEI2012/12C007-00/3. TIGER Grant 2 - Billing Phase 6/CAD/9-13\_Typical Sections\_Wright

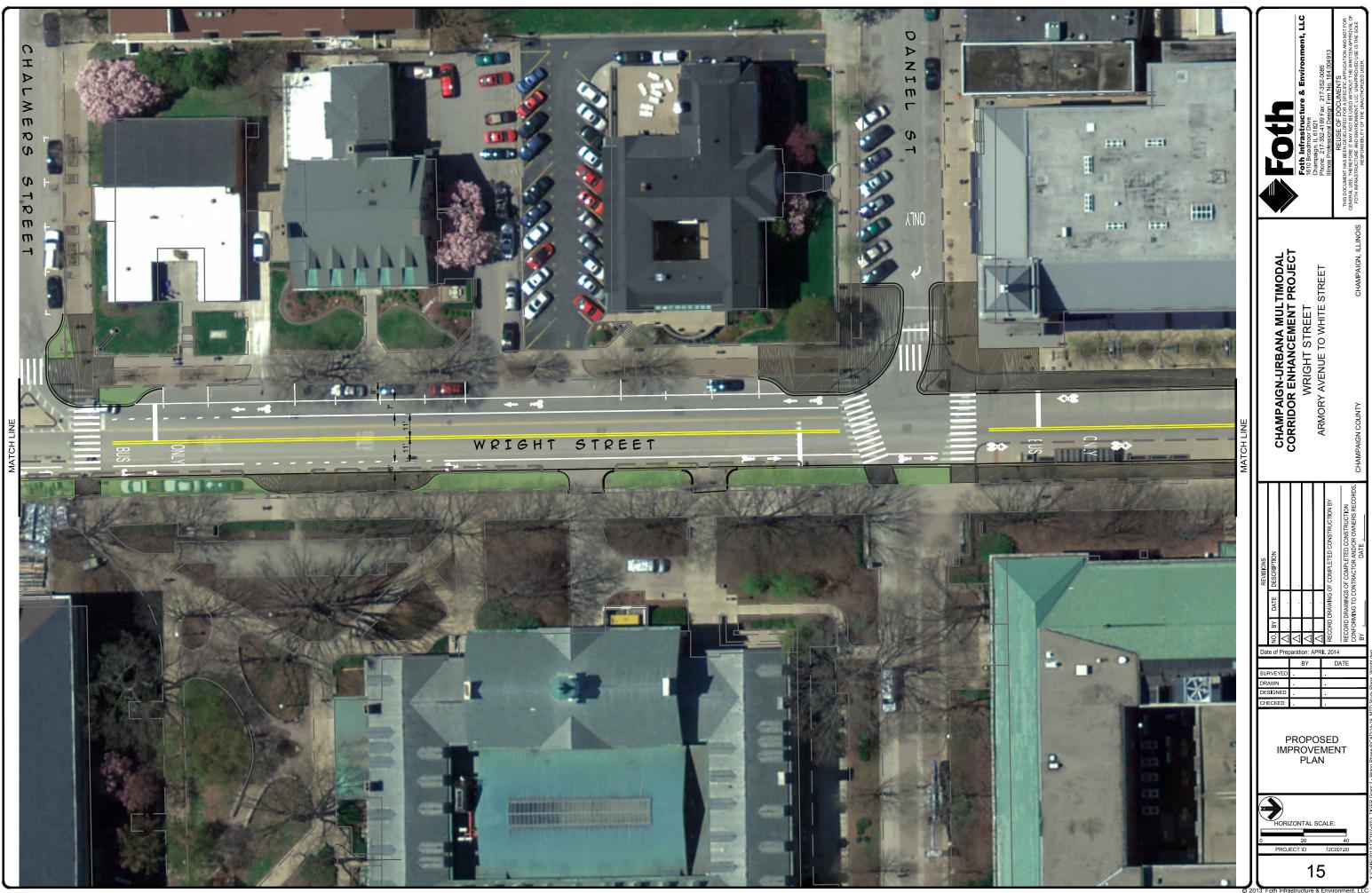


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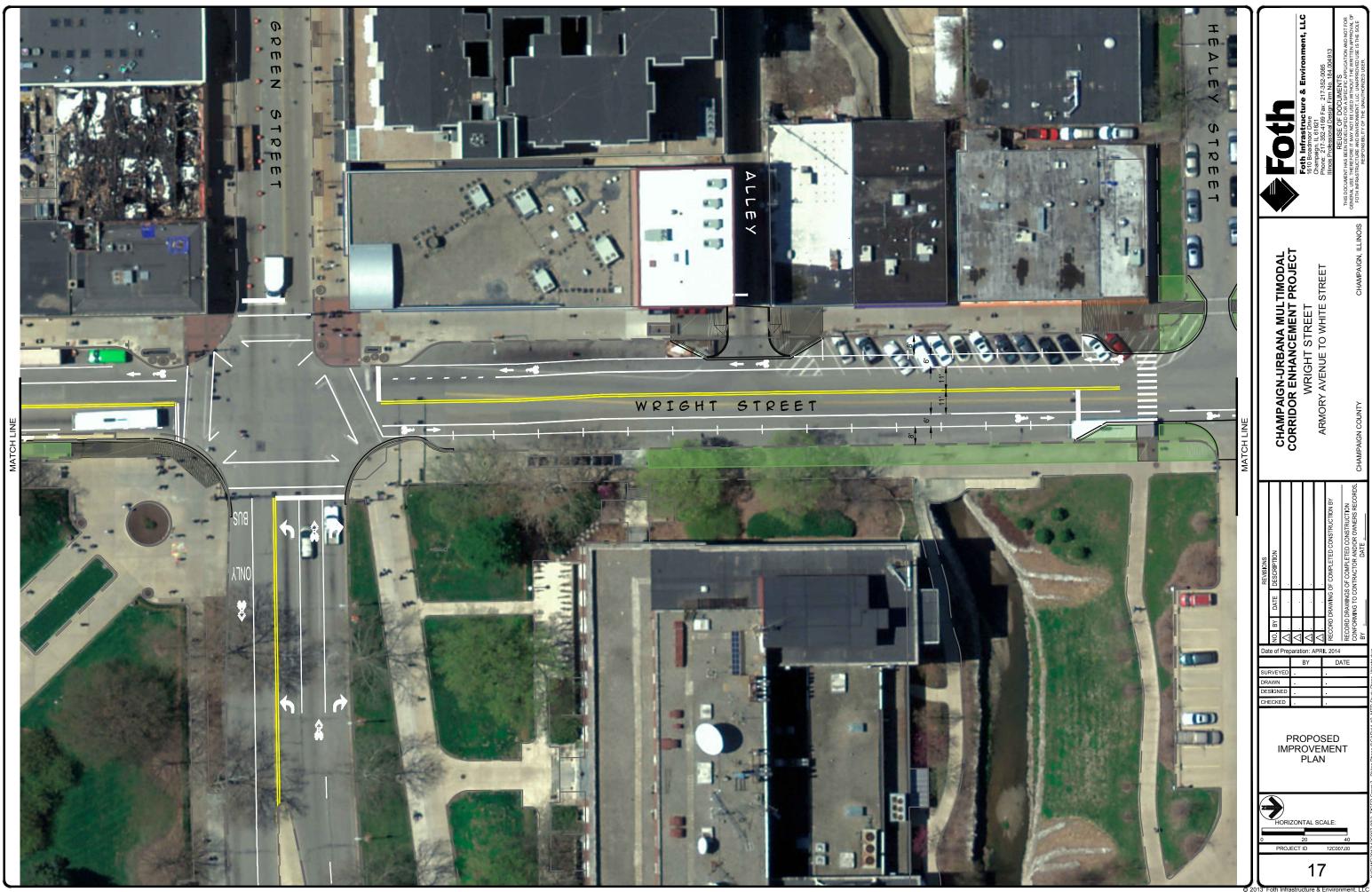




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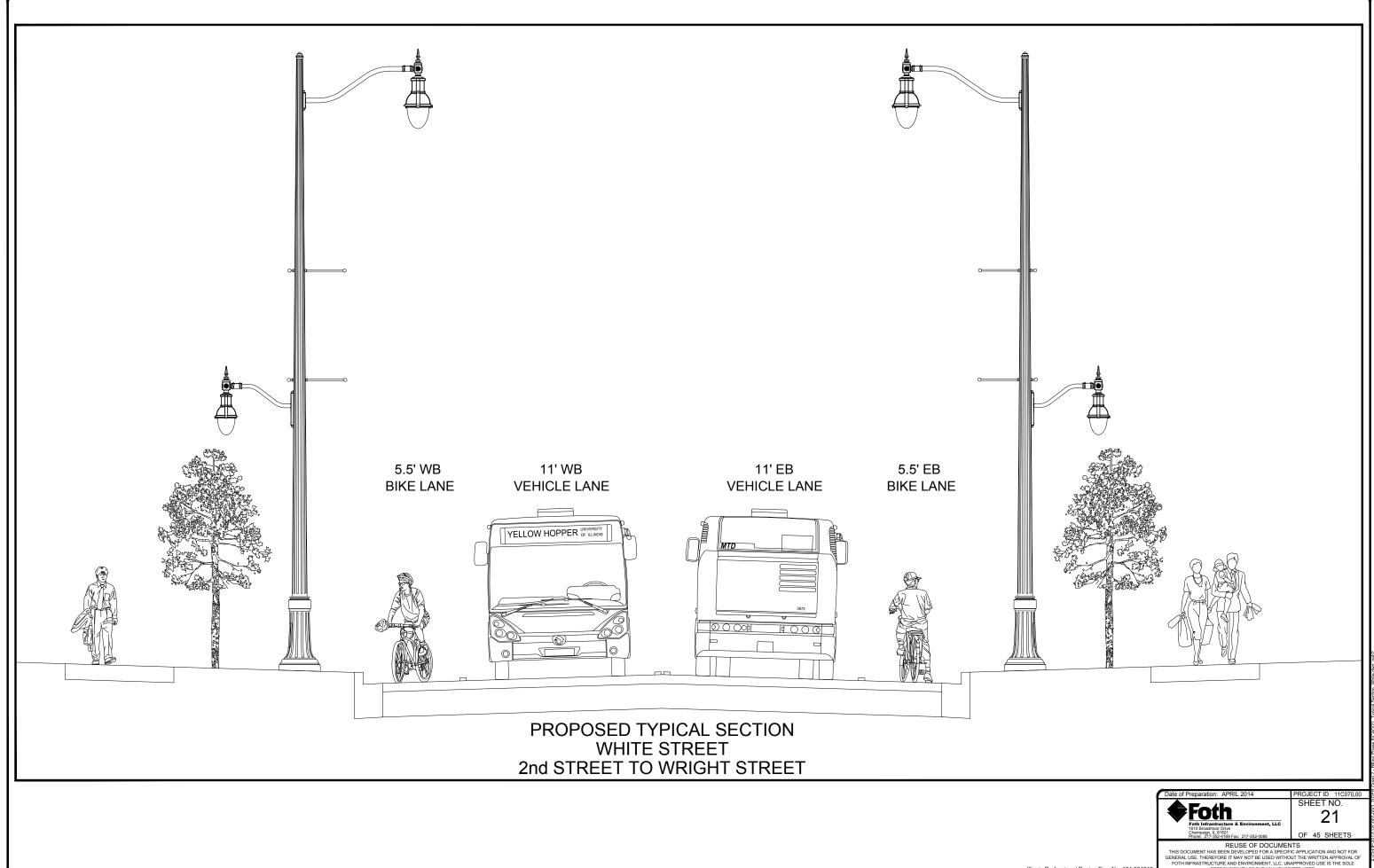
VEI2012/12C007-00/3. TIGER Grant 2 - Billing Phase 6\CAD\14-19\_MTD Study Plans

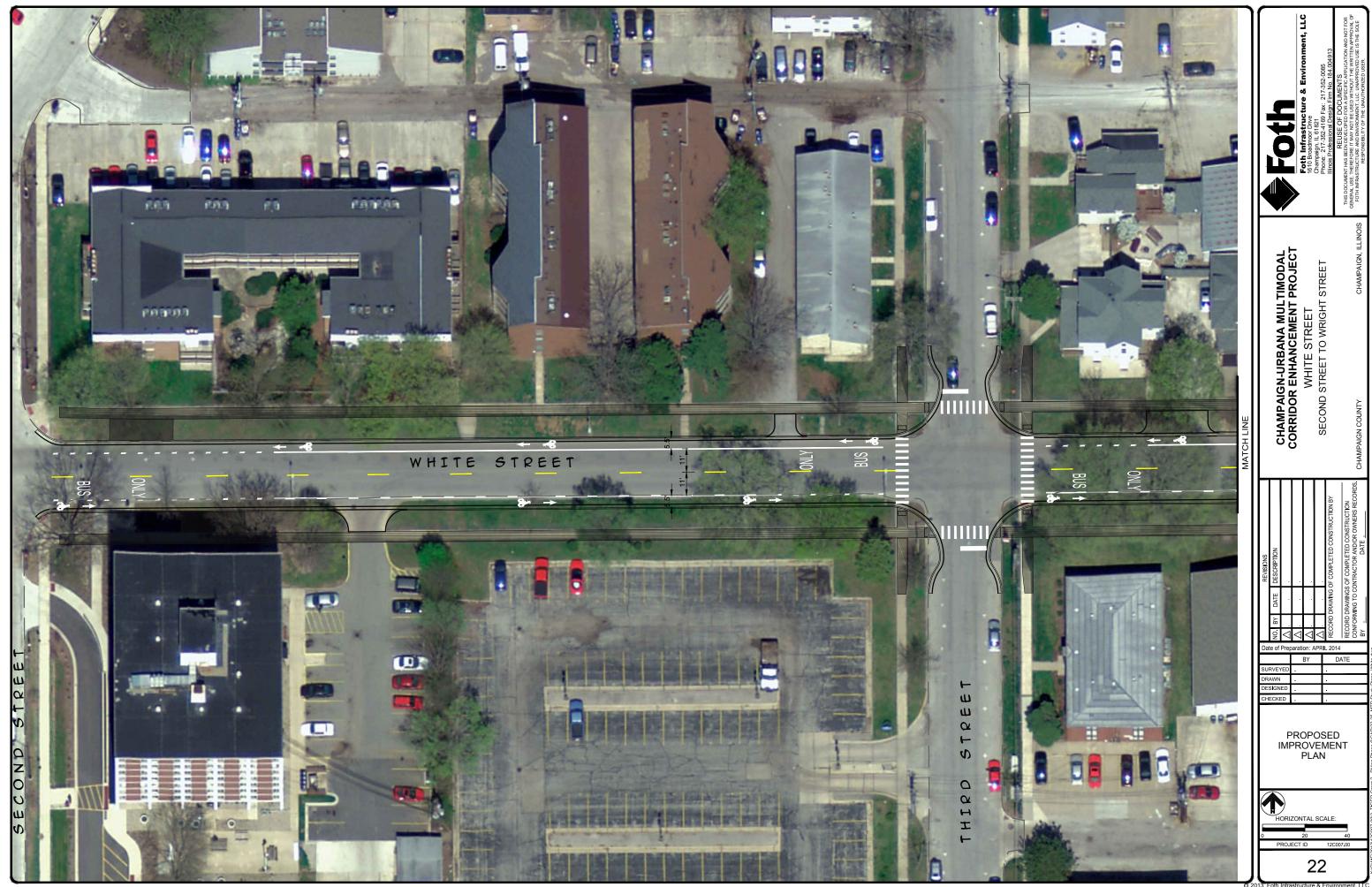
PROGRAM DEVELOPMENT QUANTITIES SUMMARY COST ESTIMATE

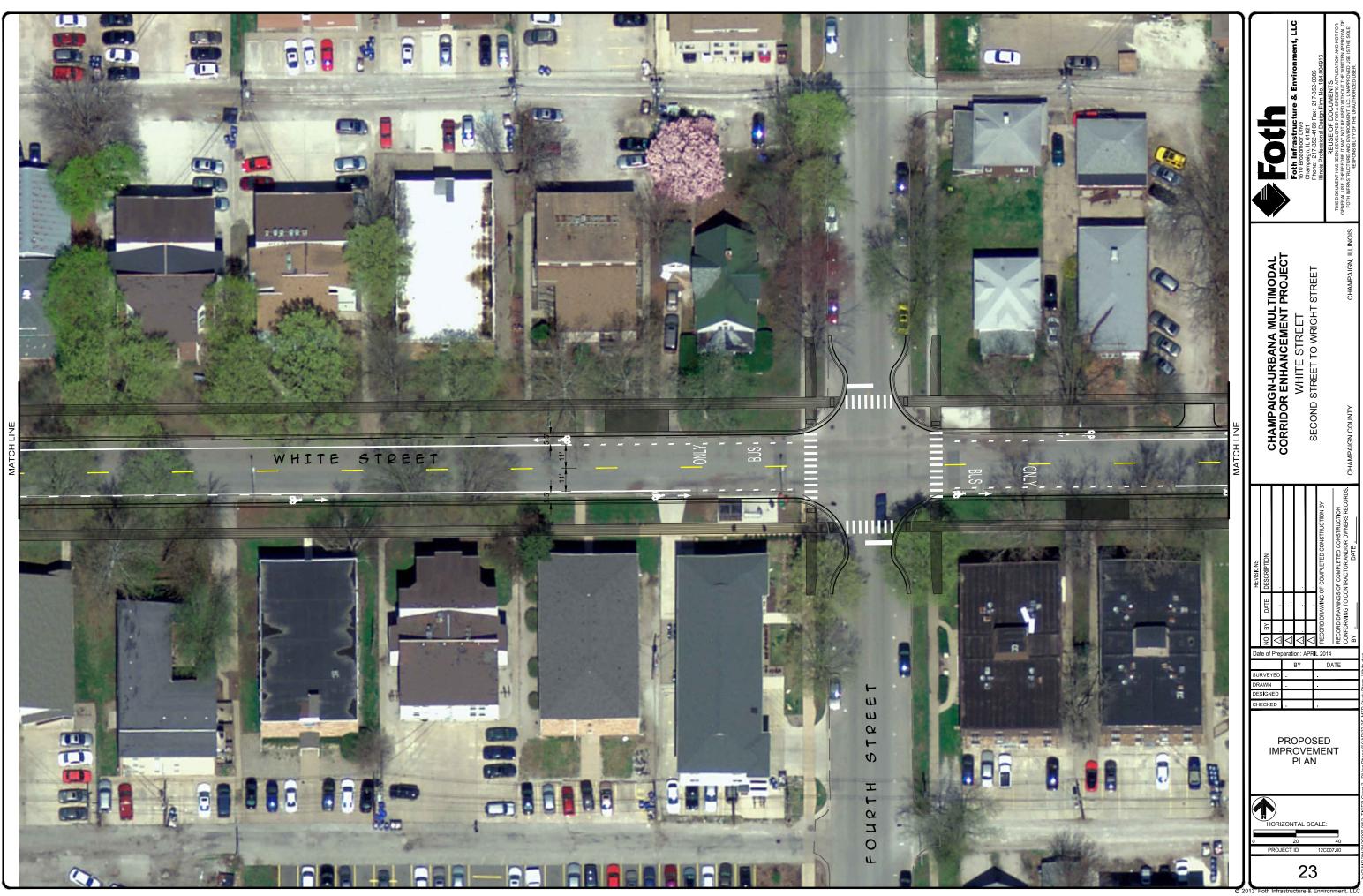
WRIGHT STREET: Armory Avenue to White Street

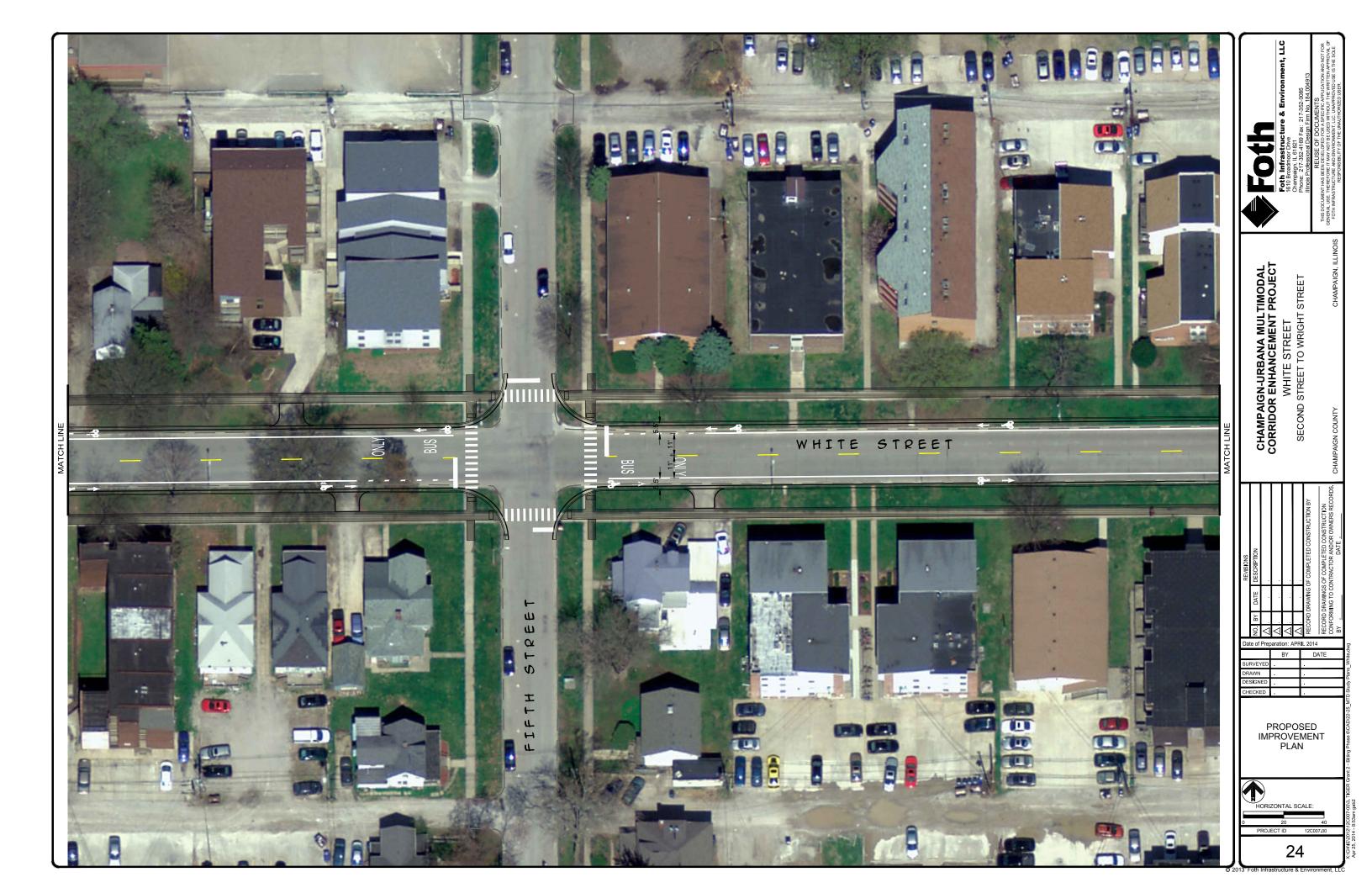
	CHAMPAIGN-URBANA MASS TRA	NSIT DISTRICT			
SMALL STARTS GRANT WRIGHT STREET					
	ΡΑΥ ΠΈΜ	UNIT	QUANTITY	UNT PRICE 2014 CONST.	TOTAL
EMOLITION	N, TRAFFIC CONTROL AND CONSTRUCTION ENGINEERING				
	TREE PROTECTION	EA	3	\$550.00	\$1,650
	ROADWAY PAVEMENT REMOVAL	SY	11500	\$22.00	\$253,000
	CURB AND GUTTER REMOVAL	LF	3220	\$25.00	\$80,500
	RAISED ISLAND REMOVAL	SY	880	\$35.00	\$30,800
	DRIVEWAY REMOVAL	SY	170	\$30.00	\$5,100
	SIDEWALK REMOVAL	SF	12200	\$2.50	\$30,500
	PAVMENT MARKING REMOVAL (ALL INCLUSIVE)	SF	850	\$6.00	\$5,100
	REMOVE PARKING METERS	EACH	12	\$200.00	\$2,400
	EARTH EXCAVATION (ROADWAY WIDENING)	CU YD	500	\$25.00	\$12,500
	ERCSION CONTROL	LSUM	1	\$25,000.00	\$25,000
	STORM SEWER IMPROVEMENTS MANHOLE/INLET/UTILITY VALVE ADJUSTMENTS	EACH	40	\$115,000.00	\$115,000
	REPLACE BONEYARD CREEK BOX CULVERT	LSUM	40	\$1,000.00	\$40,000
	PORTLAND CEMENT CONCRETE PAVEMENT, S.R., 8"	SY	12700	\$1,500,000.00	\$1,500,000
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7", N.R.	SY	330	\$72.50	\$18,150
	PCC CURB AND GUTTER	LF	3500	\$45.00	\$157,500
	CONCRETE SIDEWALK, 6"	SF	19500	\$8.50	\$165,750
	PAVEMENT MARKING (ALL ITEMS INCLUSIVE)	LF	3225	\$13.00	\$41,925
	SIGNS AND POSTS	EACH	50	\$150.00	\$7.500
	STREETSCAPE LIGHTING, LEVEL 1	BLOCK	8	\$49,000.00	\$392,000
	STREETSCAPE, LEVEL 1, STREET BLOCKS	LF	3225	\$150.00	\$483,750
	STREETSCAPE, LEVEL 1, INTERSECTIONS	SF	18500	\$25.00	\$462,500
	GREEN SPACE (TOPSOIL/SOD/SEED/FERTILIZER/WATER/PLANTINGS)	SF	14200	\$20.00	\$284,000
	GENERAL DEMOLITION (2%)	LSUM	1	\$121,400.00	\$121,400
	TRAFFIC CONTROL	LSUM	1	\$60,700.00	\$60,700
	MOBILIZATION (2%)	LSUM	1	\$121,400.00	\$121,400
	TESTING AND SAMPLING (1.5%)	LSUM	1	\$91,000.00	\$91,000
	CONSTRUCTION STAKING (2%)	LSUM	1	\$121,400.00	\$121,400
JBTOTAL I	ROADWAY				\$5,551,27
	CEMENTS				
JS ENHAN		54		C0.000.00	¢10.000
	EXISTING MTD BUS SHELTER/REAL TIME SIGN REMOVAL AMENITIES - PADS, SHELTERS, REAL TIME SIGNS, BRANDING	EA	5	\$2,000.00	\$10,000
	TRAFFIC SIGNAL MODIFICATIONS - PREEMPTION @ WRIGHT & SPRINGFIELD	EA	1	\$10,000.00	\$10,000
					\$920,000
BIUTALI	BUS STOPS				\$920,000
ONTINGEN	ICY ITEMS				
	CHALMERS STREET PAVEMENT MARKINGS	LF	370	\$13.00	\$4,810
		LSUM	1	\$110,000.00	\$110,000
	ESTMATE CONTINGENCY (20%)	LSUM	1	\$1,300,000.00	\$1,300,000
JBTOTAL	CONTINGENCY				\$1,414,81
	PRCFESSIONAL FEES (20% = PLANNING, SURVEY, DESIGN, CONSTRUCTION)	LSUM	1	\$1,550,000.00	\$1,550,000

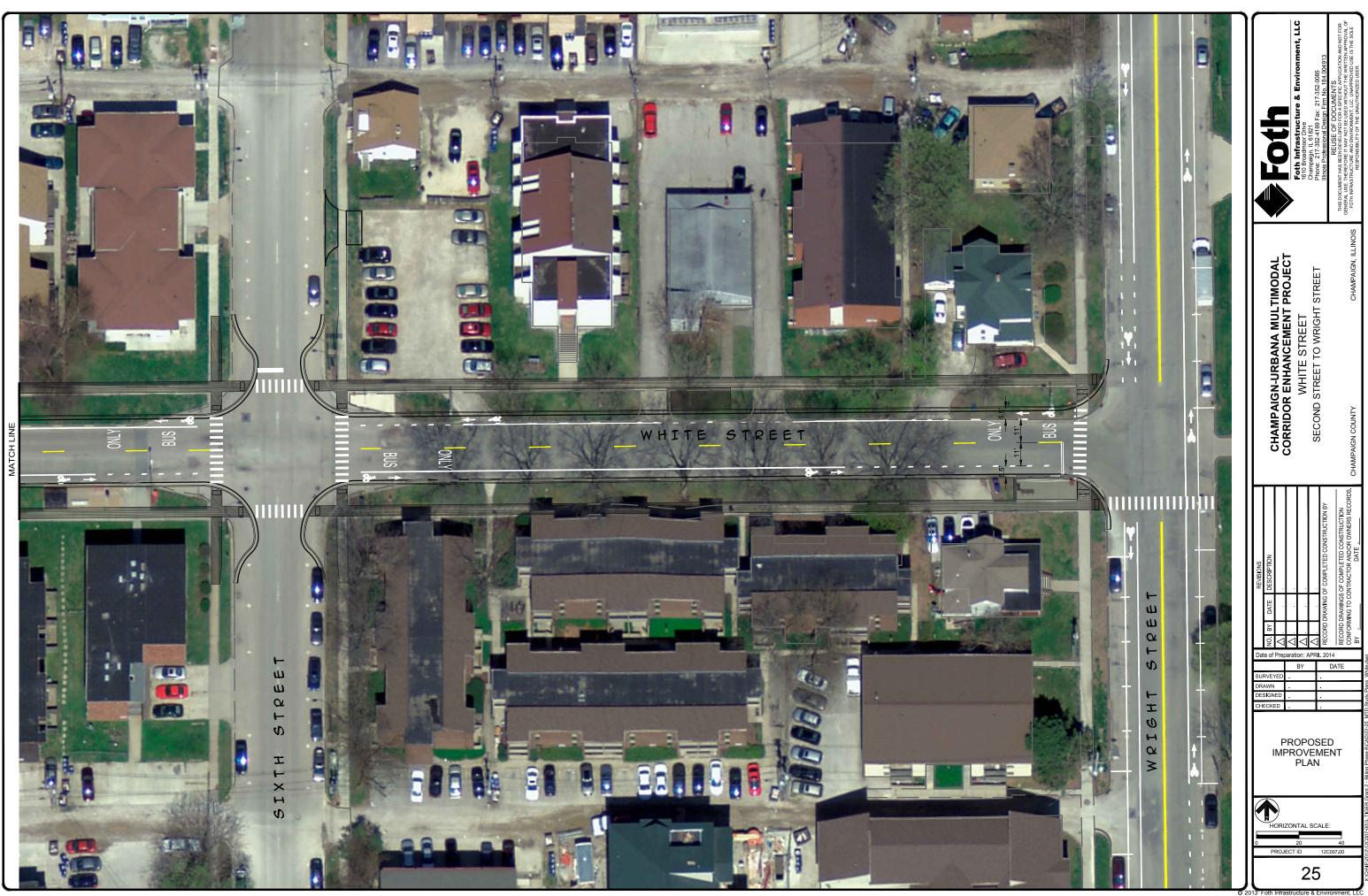












PROGRAM DEVELOPMENT QUANTITIES SUMMARY COST ESTIMATE WHITE STREET: 2nd Street to Wright Street

	CHAMPAIGN-URBANA MASS TRAN	SIT DISTRICT			
	MICRO-URBAN MOBILITY ENHANCED WHITE STREET				
				UNIT PRICE	
	PAY ITEM NFRASTRUCTURE	UNIT	QUANTITY	2014 CONST.	TOTAL
ADWATT	TREE PROTECTION	EA	3	\$550.00	\$1,650
	PAVEMENT REMOVAL (WHITE ST.)	SY	8180	\$22.00	\$179,960
	SIDEWALK REMOVAL	SF	5000	\$2.50	\$12,500
	EARTH EXCAVATION (ROADWAY WIDENING)	CU YD	2430	\$25.00	\$60,750
	EROSION CONTROL	LSUM	1	\$15,000.00	\$15,000
	PORTLAND CEMENT CONCRETE PAVEMENT, S.R., 8" (30' PAVEMENT WIDTH)	SQ YD	8550	\$72.50	\$619,875
	SIDESTREET TRANSITIONS	LSUM	1	\$25,000.00	\$25,000
	PCC CURB AND GUTTER, TYPE B-6:18	LSOM	4785	\$25,000.00	\$25,000
	CONCRETE SIDEWALK, 6"	SQ FT	6000	\$8.50	\$215,325
		LF			
	PAVMENT MARKING (ALL ITEMS INCLUSIVE)		2000	\$13.00	\$26,000
	SIGNS AND POSTS STREETSCAPE LIGHTING, LEVEL 2	EACH BLOCK	30	\$150.00	\$4,500
			5	\$49,000.00	\$245,000
	STREETSCAPE, LEVEL 2, STREET BLOCKS STREETSCAPE, LEVEL 2, INTERSECTIONS	LF	2000 6840	\$20.00 \$25.00	\$40,000 \$171,000
	GREEN SPACE (TOPSOIL/SOD/SEED/FERTILIZER/WATER/PLANTINGS)	SF	8000	\$10.00	\$80,000
		LSUM	1	\$215,000.00	\$215,000
		EACH	20	\$1,000.00	\$20,000
	GENERAL DEMOLITION (2%)	LSUM	1	\$57,000.00	\$57,000
	TRAFFIC CONTROL	LSUM		\$28,000.00	\$28,000
		LSUM	1	\$57,000.00	\$57,000
	TESTING AND SAMPLING (1.5%)	LSUM	1	\$43,000.00	\$43,000
	CONSTRUCTION STAKING (2%)	LSUM	1	\$57,000.00	\$57,000
BTOTAL	ROADWAY				\$2,224,56
SENHAN	ICEMENTS				
0 EIIIIA	EXISTING MTD BUS SHELTER/REAL TIME SIGN REMOVAL	EA	6	\$1,700.00	\$10,200
	AMENITIES - PADS, SHELTERS, REAL TIME SIGNS, BRANDING	EA	6	\$100,000.00	\$600,000
BIOTAL	BUS STOPS				\$610,200
NTINGE	NCY ITEMS				
	GENERAL UTILITY RELOCATION	LSUM	1	\$100,000.00	\$100,000
	SANITARY SEWER LINING	LSUM	1	\$180,000.00	\$180,000
	ESTIMATE CONTINGENCY (20%)	LSUM	1	\$600,000.00	\$600,000
BTOTAL	CONTINGENCY				\$880,000
					1
	PROFESSIONAL FEES (20% = PLANNING, SURVEY, DESIGN, CONSTRUCTION)	LSUM	1	745,000.00	\$880,000



# ALTERNATE 1B SUSTAINABLE STORMWATER MANAGEMENT PARKWAY TREATMENT 1 - A PERMEABLE PAVING PARKWAY TREATMENT 1 - B BIOSWALE ALTERNATE 3 DEDICATED BIKE LANES



CHECK DAMS AND OVERFLOW DRAINAGE



SHADE TREES AND TALL PLANTING

	PROG
	CHAMPAIC
C	HAMPAIGN-URBANA I
LOCATION	
<b>GREEN STREET - 4</b>	TH TO NEIL
	ROADWAY
	BUS ENHANCEMENTS
	CONTINGENCY ITEMS
	PROFESSIONAL FEES

PROPOSED TYPICAL GREEN STREE NEIL STREET TO FOUR

## STORMWATER BIOSWALE TREATMENTS





CURBED BIOSWALE



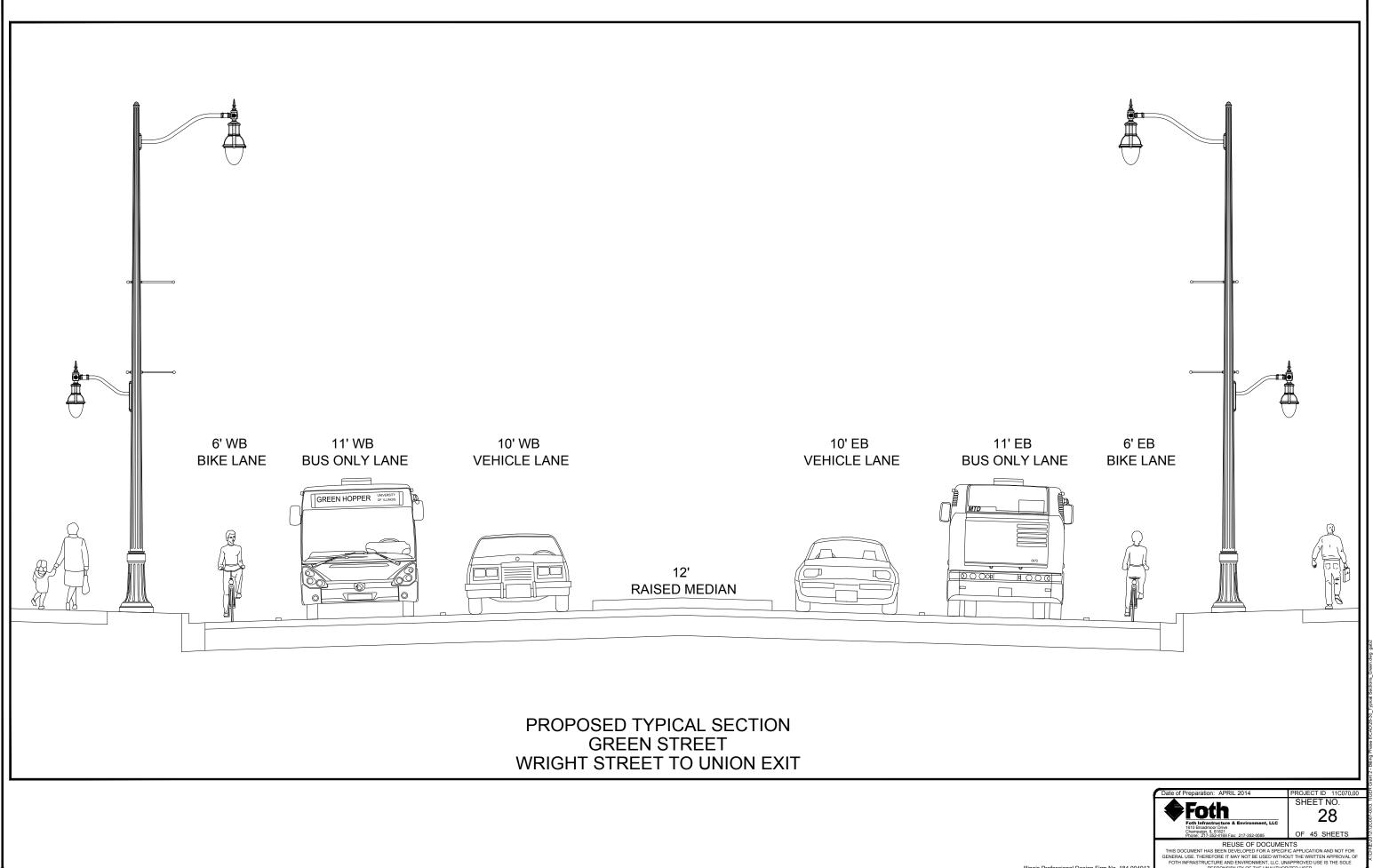


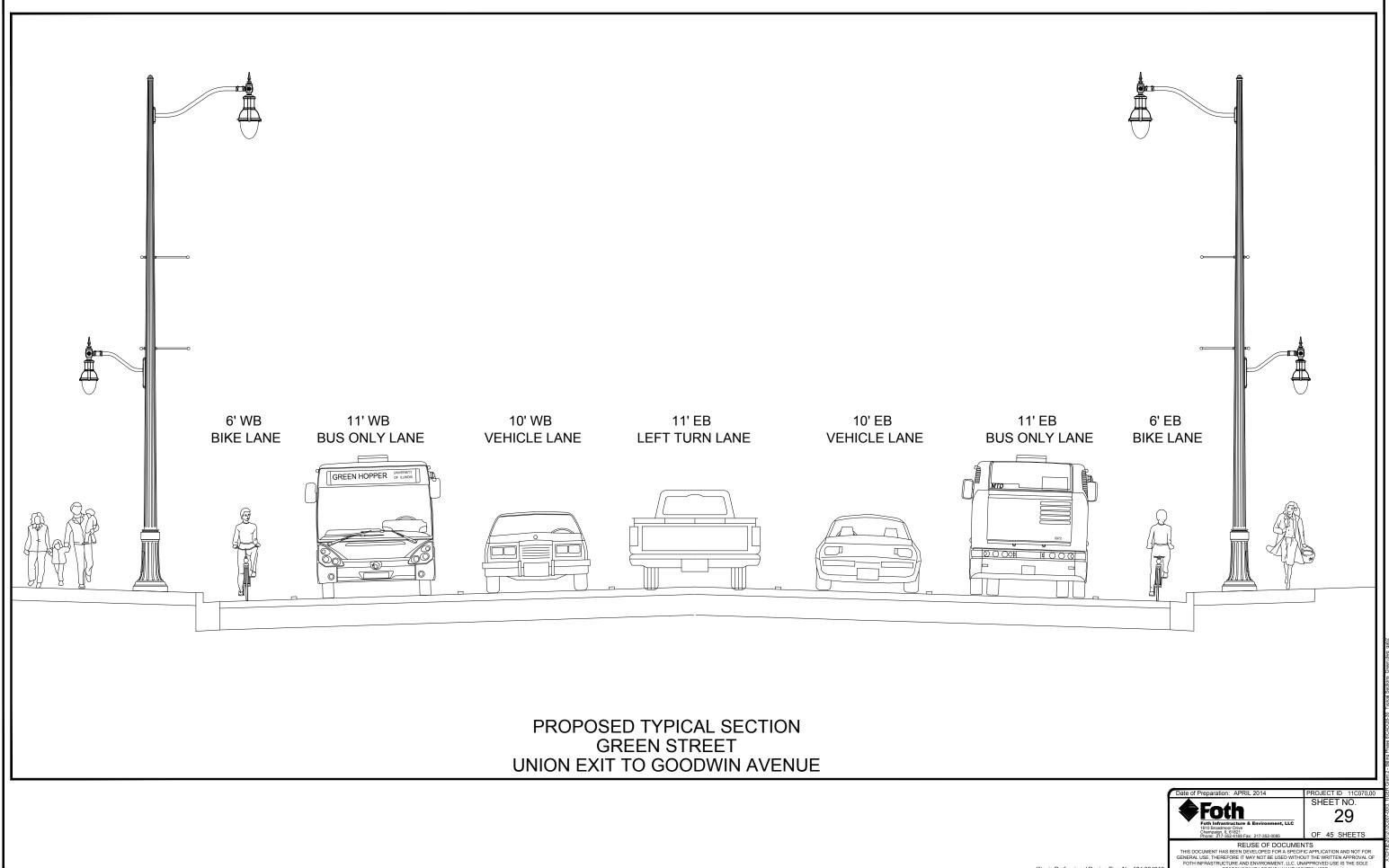
MOISTURE TOLERANT PLANTING

			-
GRAM DEVELOPMENT QUANTIT	IES	04.22.201 Foth No. 12C007.0	
GN-URBANA MASS TRANSIT DI	STRICT		
MULTIMODAL CORRIDOR ENHAN	CEMENT PROJEC	т	
РАҮ ПЕМ		TOTAL	-
		\$6,125,000	
		\$700,000	
		\$1,225,000	
		\$1,225,000	
SUBTO	TAL GREEN STREET	\$9,275,000	
SECTION	Date of Preparation: APF	RIL 2014	PROJECT ID 12C007.00 SHEET NO.
ET RTH STREET	Foth Infrastructure 1610 Broadmoor Drive Champaign. II. 61821 Phone: 217-352-41619	• & Environment, LLC	27 OF 45 SHEETS
	THIS DOCUMENT HAS BEEN I		NTS FIC APPLICATION AND NOT FOR

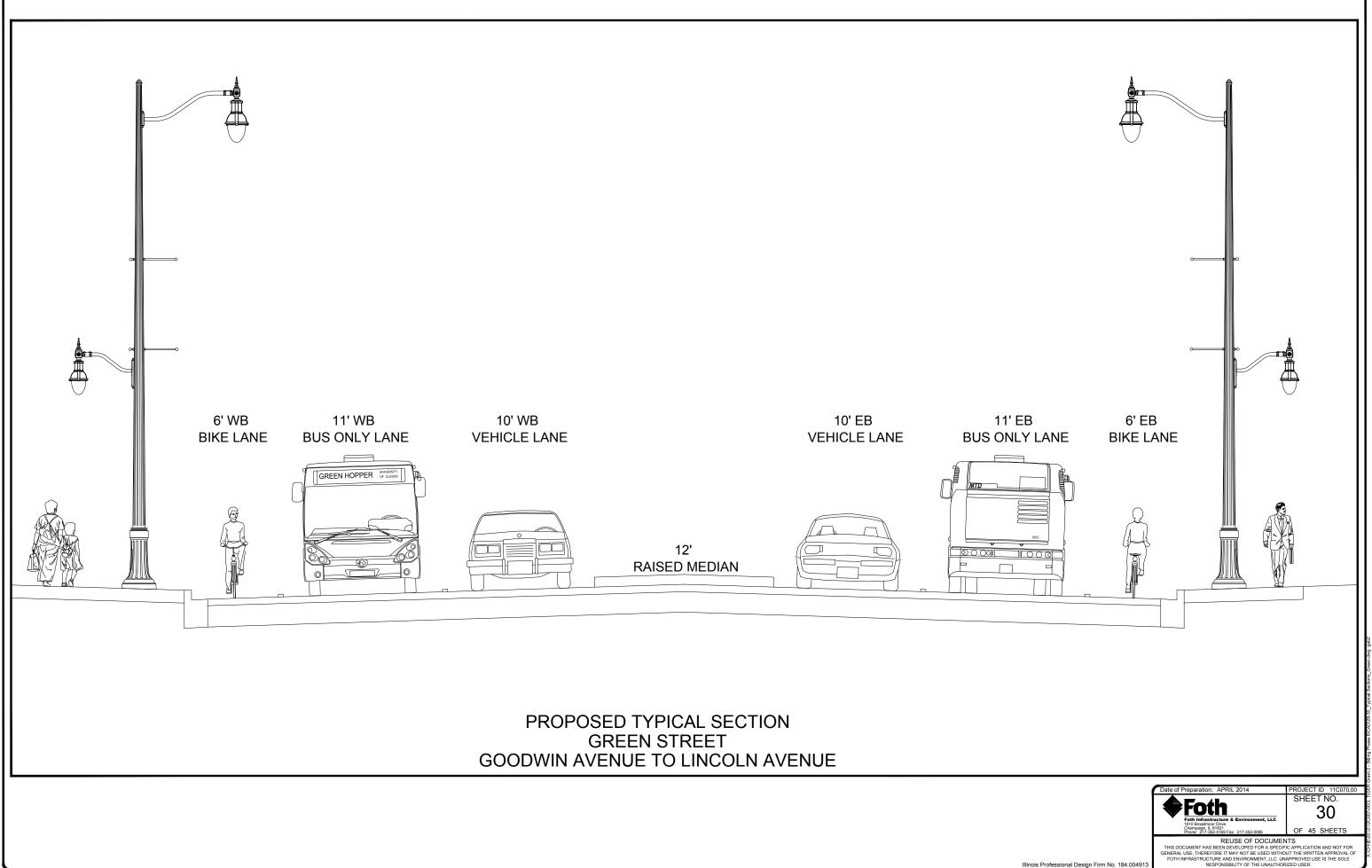
Illinois Professional Design Firm No. 184.004913

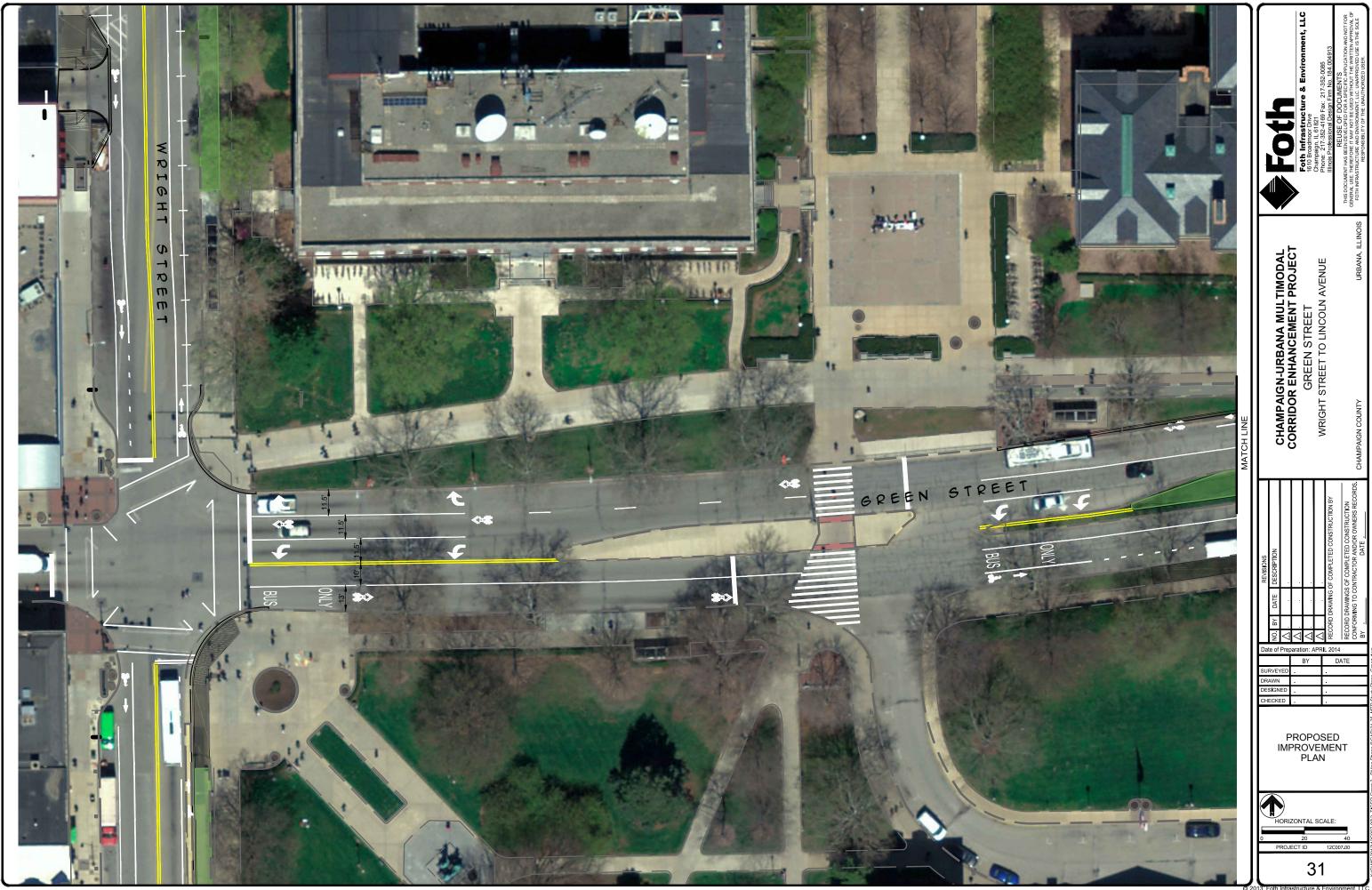
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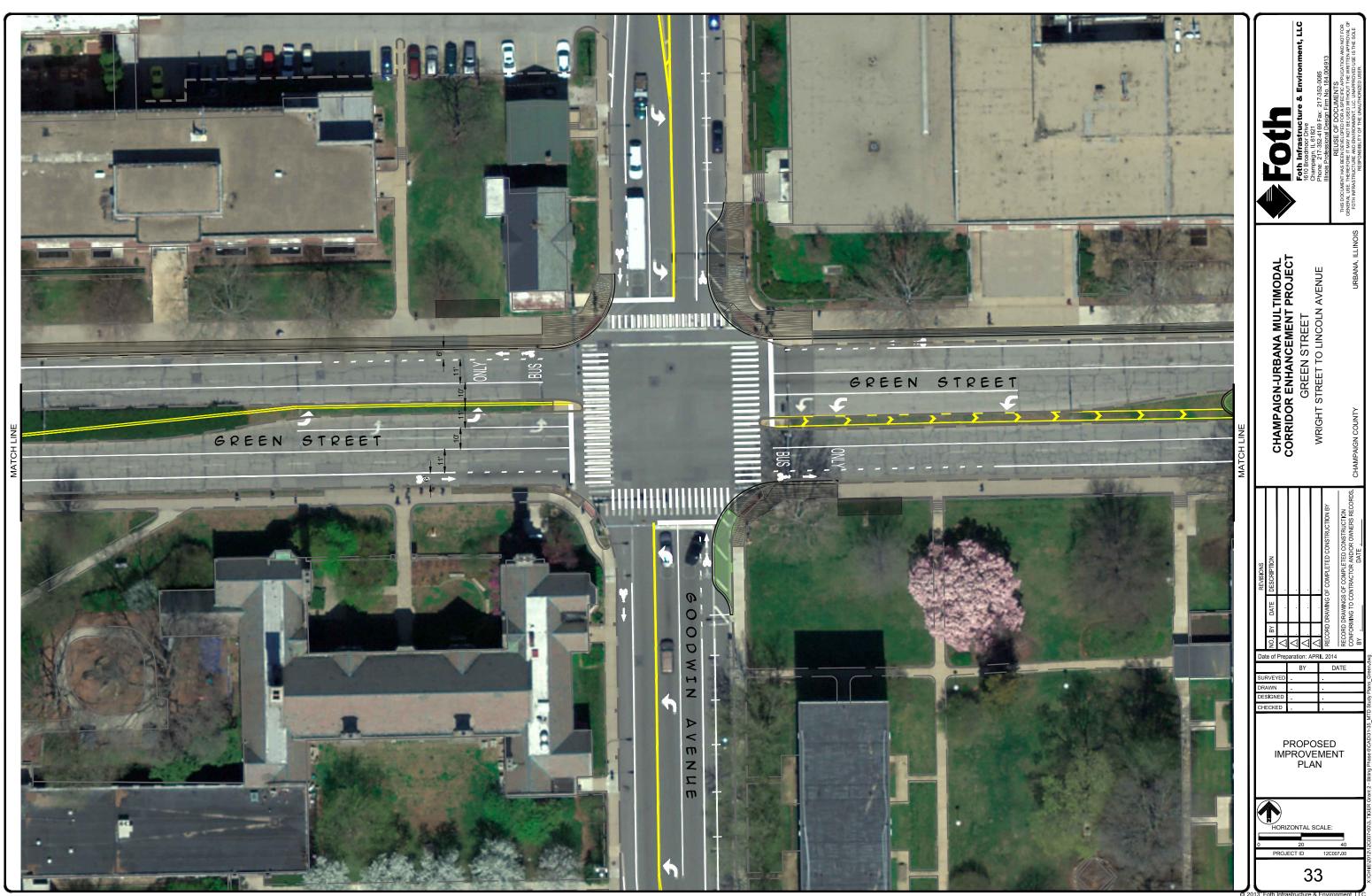


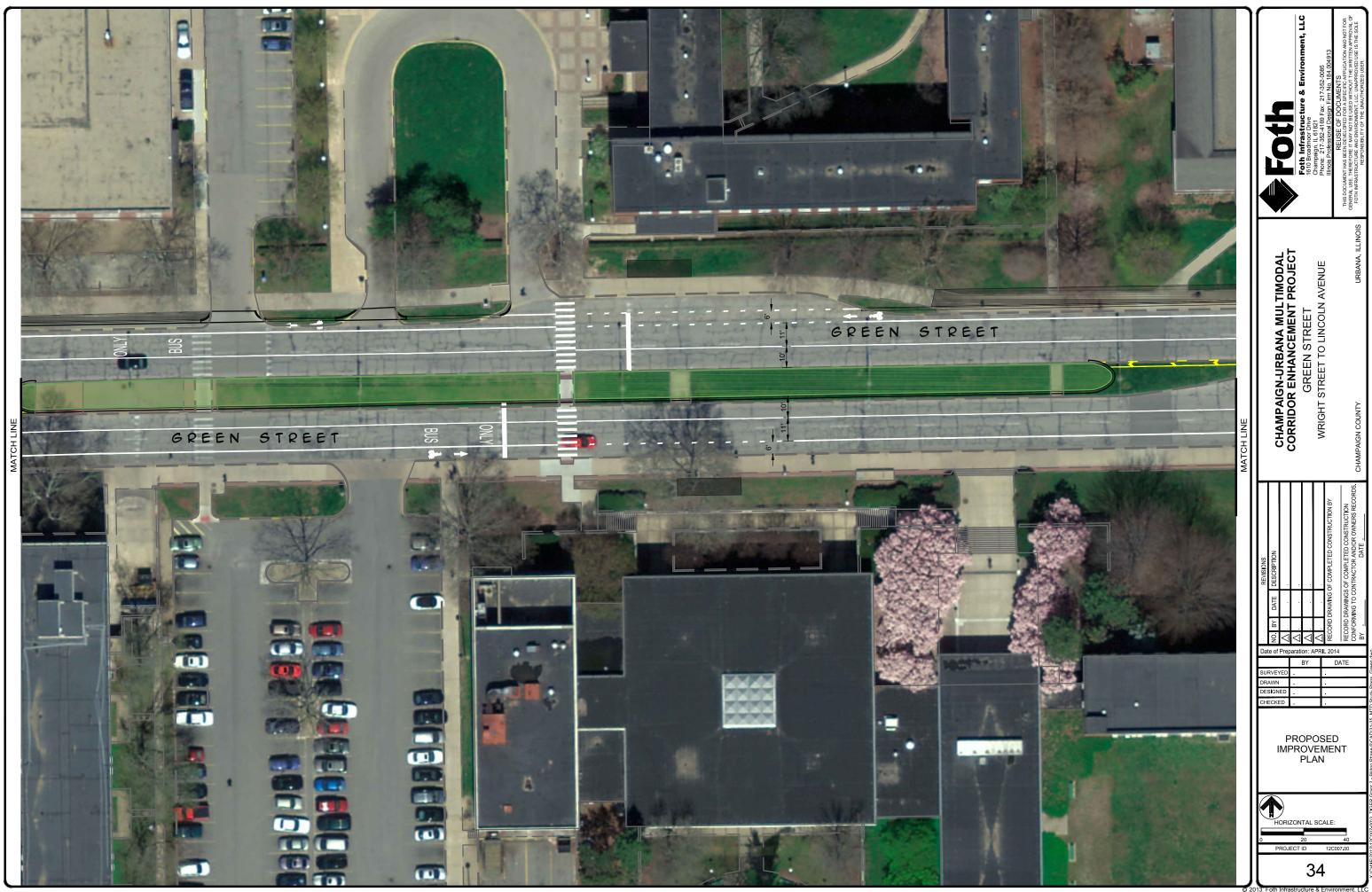
Illinois Professional Design Firm No. 184.004913









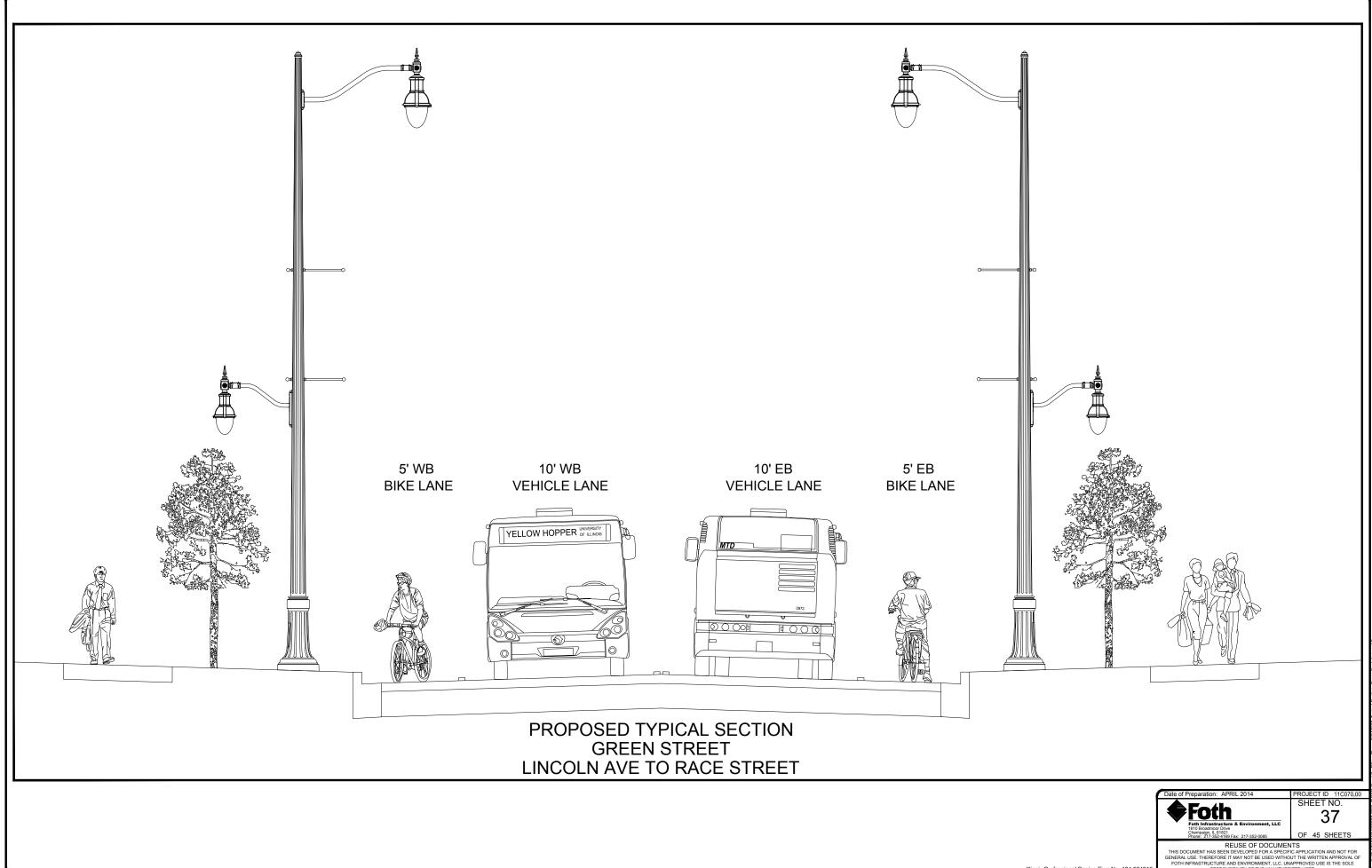


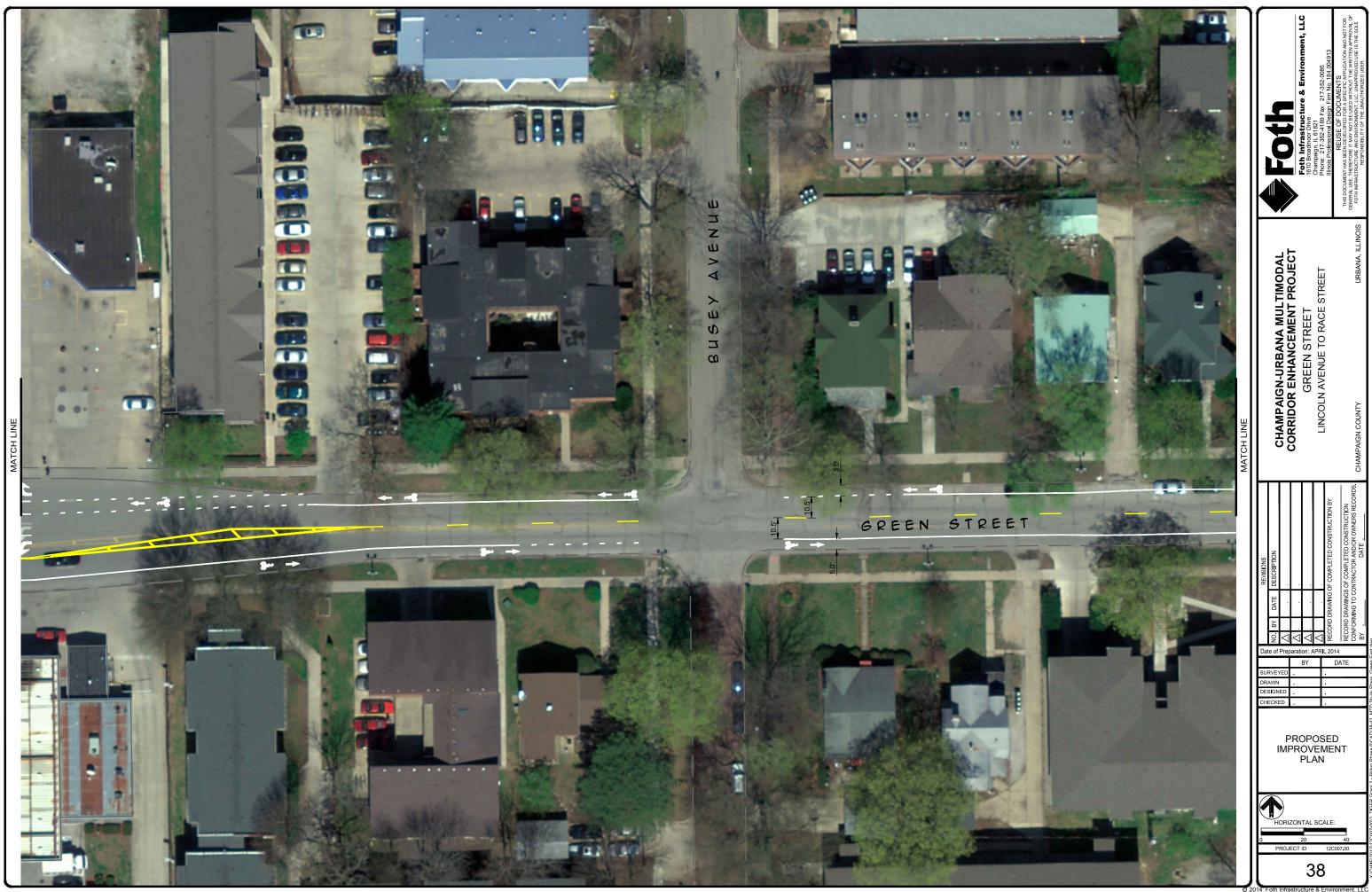


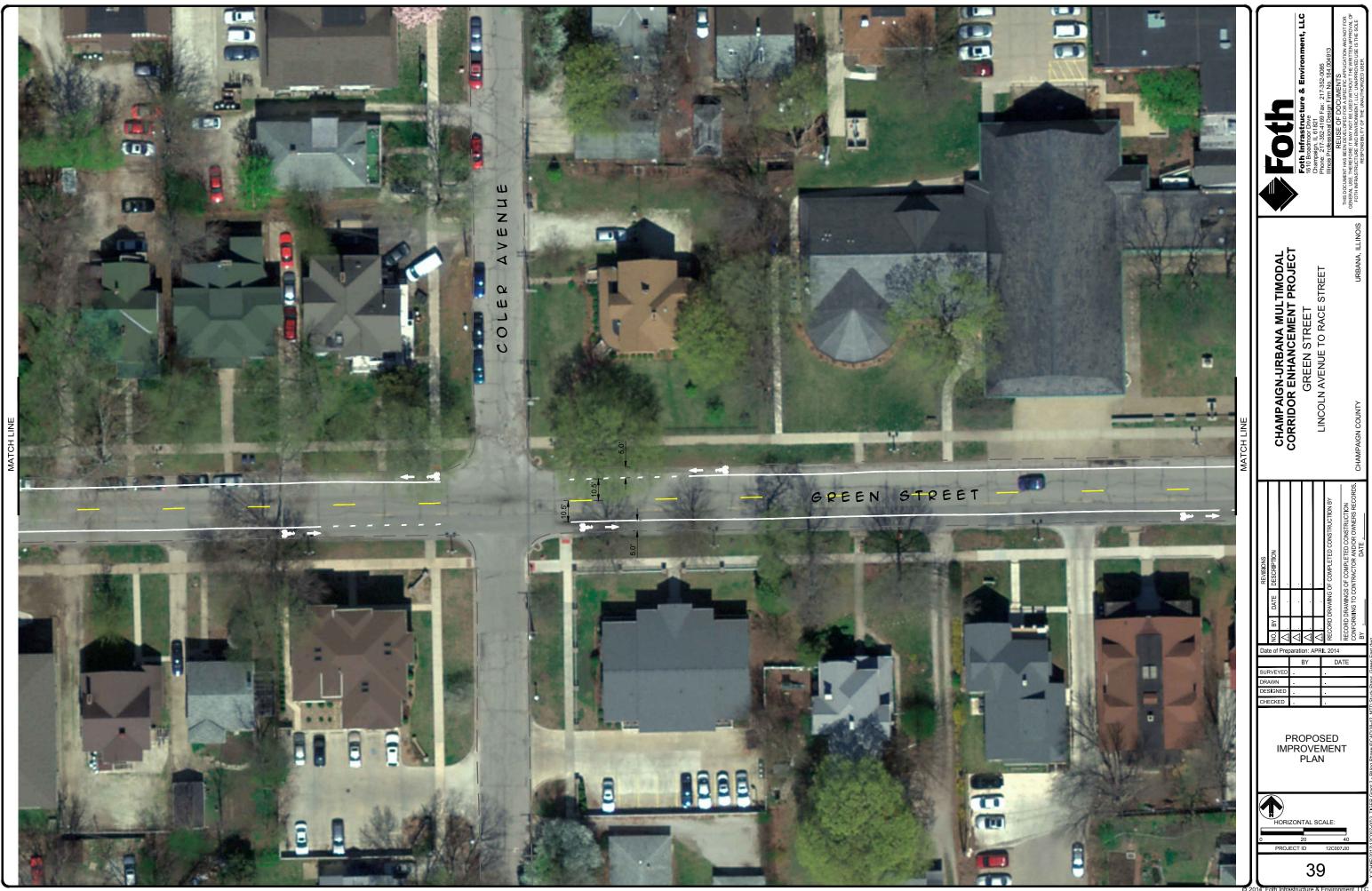
PROGRAM DEVELOPMENT QUANTITIES SUMMARY COST ESTIMATE GREEN STREET: Wright Street to Lincoln Avenue

	CHAMPAIGN-URBANA MASS TRAN MICRO-URBAN MOBILITY ENHANCED D GREEN STREET - WRIGHT T	DEVELOPMENT			
	PAYITEM	UNIT	QUANTITY	UNIT PRICE 2014 CONST.	TOTAL
EMOLITIO	N, TRAFFIC CONTROL AND CONSTRUCTION ENGINEERING				
	MILLING, 4"	SY	10000	\$6.00	\$60,000
	CURB AND GUTTER REMOVAL	LF	2370	\$25.00	\$59,250
	RAISED ISLAND REMOVAL	SY	1390	\$35.00	\$48,650
		SY	40	\$30.00	\$1,200
		SF	8710	\$2.50	\$21,775
	PAVMENT MARKING REMOVAL (ALL INCLUSIVE)		200	\$6.00	\$1,200
	EARTH EXCAVATION (ROADWAY WIDENING) EROSION CONTROL	CY LSUM	1500	\$25.00 \$25,000.00	\$37,500 \$25,000
	MANHOLE/INLET/UTILITY VALVE ADJUSTMENTS	EACH	40	\$1,000.00	\$25,000
	PCC PATCHING	LSUM	1	\$30,000.00	\$40,000
	PAVING FABRIC	SY	10000	\$4.00	\$40,000
	HOT-MIX ASPHALT, 4.25"	TON	2800	\$130.00	\$364,000
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"	SY	30	\$52.00	\$1,560
	PCC CURB AND GUTTER	LF	3250	\$31.00	\$100,750
	CONCRETE SIDEWALK, 6"	SF	11770	\$8.50	\$100,045
	CURB RAMPS	SF	6620	\$25.00	\$165,500
	PAVMENT MARKING (ALL ITEMS INCLUSIVE)	LF	2600	\$13.00	\$33,800
	SIGNS AND POSTS	EACH	50	\$150.00	\$7,500
	STREETSCAPE LIGHTING	BLOCK	6	\$49,000.00	\$294,000
	GREEN SPACE (TOPSOIL/SOD/SEED/FERTILIZER/WATER/PLANTINGS)	SF	8150	\$20.00	\$163,000
	DECORATIVE RAIL	LF	500	\$125.00	\$62,500
	GENERAL DEMOLITION (2%)	LSUM	1	\$54,000.00	\$54,000
	TRAFFIC CONTROL	LSUM	1	\$27,000.00	\$27,000
	MOBILIZATION (2%)	LSUM	1	\$24,000.00	\$24,000
	TESTING AND SAMPLING (1.5%)	LSUM	1	\$40,000.00	\$40,000
	CONSTRUCTION STAKING (2%)	LSUM	1	\$54,000.00	\$54,000
BTOTAL	ROADWAY				\$1,856,23
		Ti.	5 .		
IS ENHAN	CEMENTS		2		
	EXISTING MTD BUS SHELTER/REAL TIME SIGN REMOVAL	EA	4	\$2,000.00	\$8,000
	AMENITIES - PADS, SHELTERS, REAL TIME SIGNS, BRANDING TRAFFIC SIGNAL MODIFICATIONS - PREEMPTION @ GREEN &	EA	6	\$100,000.00	\$600,000
	GOODWIN AND GREEN & LINCOLN	EA	2	\$10,000.00	\$20,000
	RETAINING WALL	LF	60	\$200.00	\$12,000
BTOTAL	BUS STOPS				\$640,000
NTINGEN	ICY ITEMS				
	GENERAL UTILITY RELOCATION	LSUM	1	\$150,000.00	\$150,000
	STORM SEWER IMPROVEMENTS	LSUM	1	\$250,000.00	\$250,000
	ESTIMATE CONTINGENCY (20%)	LSUM	11	\$500,000.00	\$500,000
BTOTAL	CONTINGENCY				\$900,000
	PROFESSIONAL FEES (20% = PLANNING, SURVEY, DESIGN, CONSTRUCTION)	LSUM	1	700,000.00	\$700.000















PROGRAM DEVELOPMENT QUANTITIES SUMMARY COST ESTIMATE GREEN STREET: Lincoln Avenue to Race Street

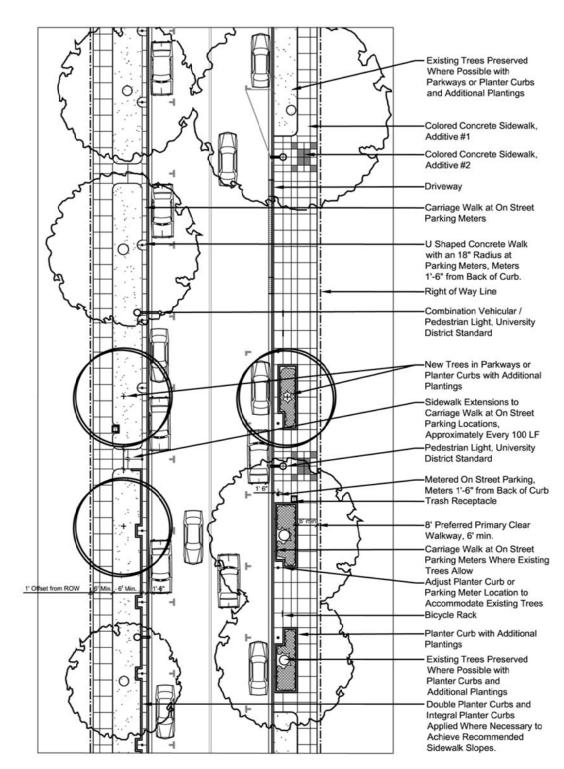
	CHAMPAIGN-URBANA MASS TRAI	NSIT DISTRICT			
	SMALL STARTS GRAN	т			
	GREEN STREET - LINCOLN	N TO RACE			
				UNIT PRICE	
	PAY ITEM	UNIT	QUANTITY	2014 CONST.	TOTAL
EMOLITIO				1	
	ROADWAY PAVEMENT REMOVAL	SY	11100	\$22.00	\$244,200
	CURB AND GUTTER REMOVAL	LF	2900	\$25.00	\$72,500
	RAISED ISLAND REMOVAL	SY	35	\$35.00	\$1,225
	DRIVEWAY REMOVAL	SY	470	\$30.00	\$14,100
	SIDEWALK REMOVAL	SF	11500	\$2.50	\$28,750
	EROSION CONTROL	LSUM	1	\$25,000.00	\$25,000
	MANHOLE/INLET/UTILITY VALVE ADJUSTMENTS	EACH	35	\$1,000.00	\$35,000
	PORTLAND CEMENT CONCRETE PAVEMENT, S.R., 8"	SY	11100	\$72.50	\$804,750
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"	SY	470	\$52.00	\$24,440
	PCC CURB AND GUTTER	LF	2900	\$31.00	\$89,900
	CONCRETE SIDEWALK, 6"	SF	11500	\$8.50	\$97,750
	CURB RAMPS	SF	7800	\$25.00	\$195,000
	PAVMENT MARKING (ALL ITEMS INCLUSIVE)	LF	2900	\$13.00	\$37,700
	SIGNS AND POSTS	EACH	15	\$150.00	\$2,250
	GREEN SPACE (TOPSOIL/SOD/SEED/FERTILIZER/WATER)	SF	40000	\$10.00	\$400,000
	GENERAL DEMOLITION (2%)	LSUM	1	\$71,400.00	\$85,600
	TRAFFIC CONTROL	LSUM	1	\$35,700.00	\$75,000
	MOBILIZATION (2%)	LSUM	1	\$71,400.00	\$85,600
	TESTING AND SAMPLING (1.5%)	LSUM	1	\$53,500.00	\$64,200
	CONSTRUCTION STAKING (2%)	LSUM	1	\$71,400.00	\$85,600
UBTOTAL	ROADWAY				\$2,468,56
US ENHAN	CEMENTS				
	AMENITIES - PADS, SHELTERS, REAL TIME SIGNS, BRANDING	EA	8	\$100,000.00	\$800,000
UBTOTAL	BUS STOPS				\$800,000
ONTINGEN	CYITEMS				
	GENERAL UTILITY RELOCATION	LSUM	1	\$100,000.00	\$100,000
	STORM SEWER IMPROVEMENTS	LSUM	1	\$200,000.00	\$200,000
	ESTIMATE CONTINGENCY (20%)	LSUM	1	\$500,000.00	\$713,700
-					
UBTOTAL	CONTINGENCY				\$1,013,70
		·			
	PROFESSIONAL FEES (20% = PLANNING, SURVEY, DESIGN, CONSTRUCTION)	LSUM	1	\$850,000.00	\$850,000
		20011	· · ·	2000,000,00	\$555,000



## CITY OF CHAMPAIGN **DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION** MANUAL OF PRACTICE CHAPTER 26: UNIVERSITY DISTRICT STREETSCAPE STANDARDS

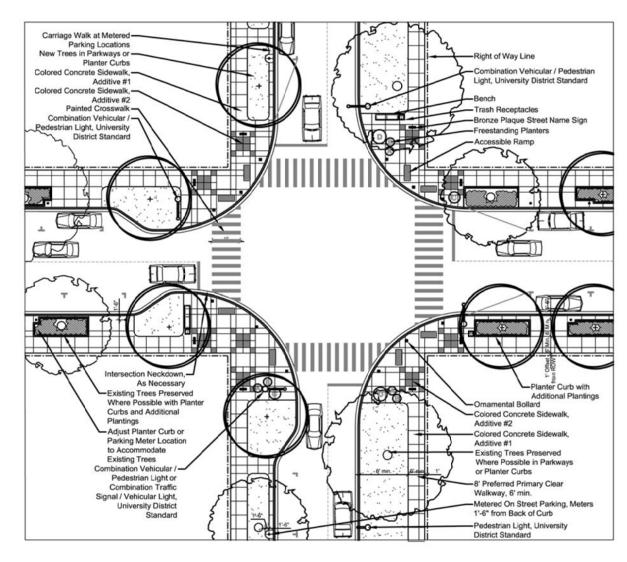
## **B. LEVEL 2 – TRANSITION AREAS**

## Level 2 Prototypical Street Plan



## CHAPTER 26: UNIVERSITY DISTRICT STREETSCAPE STANDARDS

## Level 2 Prototypical Intersection Plan



NOTE: DETAILS SHOWN ON THIS SHEET ARE EXCERPTS FROM CHAPTER 26 OF THE CITY OF CHAMPAIGN DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION MANUAL OF PRACTICE. CHAPTER 26 WAS PREPARED BY HITCHCOCK DESIGN GROUP AND DAILY & ASSOCIATES ENGINEERS AS CONSULTANTS TO THE CITY OF CHAMPAIGN. UNIT COSTS FOR LEVEL 2 STREETSCAPE FROM THE REFERENCED CONSULTANTS DELIVERABLES HAVE BEEN INCLUDED IN THIS REPORT WITH EXCLUSIONS NOTED.

LEVEL 2 STREETSCAPE FEATURES:

- VEHICULAR AND PEDESTRIAN LIGHTS/UNIVERSITY STANDARDS
- COMBINATION VEHICULAR AND PEDESTRIAN
- LIGHTS/UNIVERSITY STANDARDS TREES
- PLANTER BOXES AND CURBS
- BICYCLE RACKS
- BENCHES
- TRASH RECEPTACLES
- SELECT LANDSCAPING

#### **ON-STREET PARKING METERS** •

- CARRIAGE WALK

- TRAFFIC CONTROL AND PROTECTION
- CONCRETE SIDEWALK STANDARD

- CONCRETE SIDEWALK SHOTBLAST FINISH
- CONCRETE SIDEWALK SEALANT
- UNIT PAVING
- CONCRETE UNDERLAYMENT
- CAST-IN-PLACE CONCRETE PLANTER CURB
- - STREET NAME PLAQUE

  - DEDICATION PLAQUE •

LEVEL 2 STREETSCAPE EXCLUSIONS:

SIDEWALKS & SPECIAL DETAILS (COST SEPARATELY) CONCRETE SIDEWALK - INTEGRAL COLORING CONCRETE SIDEWALK - SIDEWALK JOINTING

COMBINATION CONCRETE CURB & GUTTER, TYPE B6-18



PROGRAM DEVELOPMENT QUANTITIES

SUMMARY COST ESTIMATE

ARMORY AVENUE, WRIGHT STREET, WHITE STREET, & GREEN STREET

		Foth No. 12C00
	CHAMPAIGN-URBANA MASS TRANSIT DISTRICT	
	CHAMPAIGN-URBANA MULTIMODAL CORRIDOR ENHANCEMENT PROJECT	
ARMOR	Y AVENUE, WRIGHT STREET, WHITE STREET & GREEN ST	REET
LOCATION	ΡΑΥ ΙΤΕΜ	TOTAL
RMORY AVENUE - 4T	1 TO WRIGHT	
	ROADWAY	\$1,058,670
	BUS ENHANCEMENTS	\$214,000
	CONTINGENCY ITEMS	\$685,455
	PROFESSIONAL FEES	\$391,000
	SUBTOTAL ARMORY AVENUE	\$2,349,125
WRIGHT STREET - ARM	AORY TO WHITE	
	ROADWAY	\$5,551,275
	BUS ENHANCEMENTS	\$920,000
	CONTINGENCY ITEMS	\$1,414,810
	PROFESSIONAL FEES	\$1,550,000
	SUBTOTAL WRIGHT STREET	\$9,436,085
WHITE STREET - WRIG	HT TO 2ND	
	ROADWAY	\$2,224,560
	BUS ENHANCEMENTS	\$610,200
	CONTINGENCY ITEMS	\$880,000
	PROFESSIONAL FEES	\$880,000
	SUBTOTAL WRIGHT STREET	\$4,594,760
	GHT TO LINCOLN       ROADWAY       BUS ENHANCEMENTS	\$1,856,230 \$640,000
	CONTINGENCY ITEMS	\$900,000
	PROFESSIONAL FEES	\$700,000
	SUBTOTAL GREEN STREET	\$4,096,230
REEN STREET - LINC		
	ROADWAY	\$2,468,565
	BUS ENHANCEMENTS	\$800,000
	CONTINGENCY ITEMS PROFESSIONAL FEES	\$1,013,700 \$850,000
	SUBTOTAL GREEN STREET	\$5,132,265
REEN STREET - 4TH		
	ROADWAY	\$6,125,000
	BUS ENHANCEMENTS	\$700,000
	BUS ENHANCEMENTS CONTINGENCY ITEMS	\$700,000 \$1,225,000
	CONTINGENCY ITEMS PROFESSIONAL FEES	\$1,225,000 \$1,225,000
	CONTINGENCY ITEMS	\$1,225,000
	CONTINGENCY ITEMS PROFESSIONAL FEES	\$1,225,000 \$1,225,000 <b>\$9,275,000</b>
	CONTINGENCY ITEMS PROFESSIONAL FEES SUBTOTAL GREEN STREET	\$1,225,000 \$1,225,000 <b>\$9,275,000</b> <b>\$34,883,4</b>
	CONTINGENCY ITEMS PROFESSIONAL FEES SUBTOTAL GREEN STREET TOTAL PROJECT COST	\$1,225,000 \$1,225,000 <b>\$9,275,000</b> <b>\$34,883,4</b> \$3,600
	CONTINGENCY ITEMS PROFESSIONAL FEES SUBTOTAL GREEN STREET TOTAL PROJECT COST UIUC FUNDING REQUESTED - ARMORY AVENUE & WRIGHT STREET	\$1,225,000 \$1,225,000 <b>\$9,275,000</b> <b>\$34,883,</b> \$3,600 \$3,184
	CONTINGENCY ITEMS PROFESSIONAL FEES SUBTOTAL GREEN STREET TOTAL PROJECT COST UIUC FUNDING REQUESTED - ARMORY AVENUE & WRIGHT STREET CITY OF CHAMPAIGN FUNDING REQUESTED - WHITE STREET	\$1,225,000 \$1,225,000 <b>\$9,275,000</b> <b>\$34,883,6</b> \$3,600 \$3,188 \$1,000
	CONTINGENCY ITEMS PROFESSIONAL FEES SUBTOTAL GREEN STREET TOTAL PROJECT COST UIUC FUNDING REQUESTED - ARMORY AVENUE & WRIGHT STREET CITY OF CHAMPAIGN FUNDING REQUESTED - WHITE STREET CITY OF URBANA FUNDING REQUESTED - GREEN STREET - WRIGHT STREET TO LINCOLN AVENUE	\$1,225,000 \$1,225,000 \$9,275,000 \$34,883,4 \$3,600 \$3,185 \$1,000 \$1,100
	CONTINGENCY ITEMS PROFESSIONAL FEES SUBTOTAL GREEN STREET UIUC FUNDING REQUESTED - ARMORY AVENUE & WRIGHT STREET CITY OF CHAMPAIGN FUNDING REQUESTED - GREEN STREET - WRIGHT STREET INCOLN AVENUE CITY OF URBANA FUNDING REQUESTED - GREEN STREET - LINCOLN AVENUE TO RACE STREET CITY OF CHAMPAIGN FUNDING REQUESTED - GREEN STREET - 4TH STREET TO NEIL STREET	\$1,225,000 \$1,225,000 \$9,275,000 \$34,883,4 \$3,600 \$3,188 \$1,000 \$1,100 \$6,406
	CONTINGENCY ITEMS PROFESSIONAL FEES SUBTOTAL GREEN STREET UIUC FUNDING REQUESTED - ARMORY AVENUE & WRIGHT STREET CITY OF URBANA FUNDING REQUESTED - GREEN STREET - WRIGHT STREET TO LINCOLN AVENUE CITY OF URBANA FUNDING REQUESTED - GREEN STREET - LINCOLN AVENUE TO RACE STREET	\$1,225,000 \$1,225,000

