Appendix A - Exhibits

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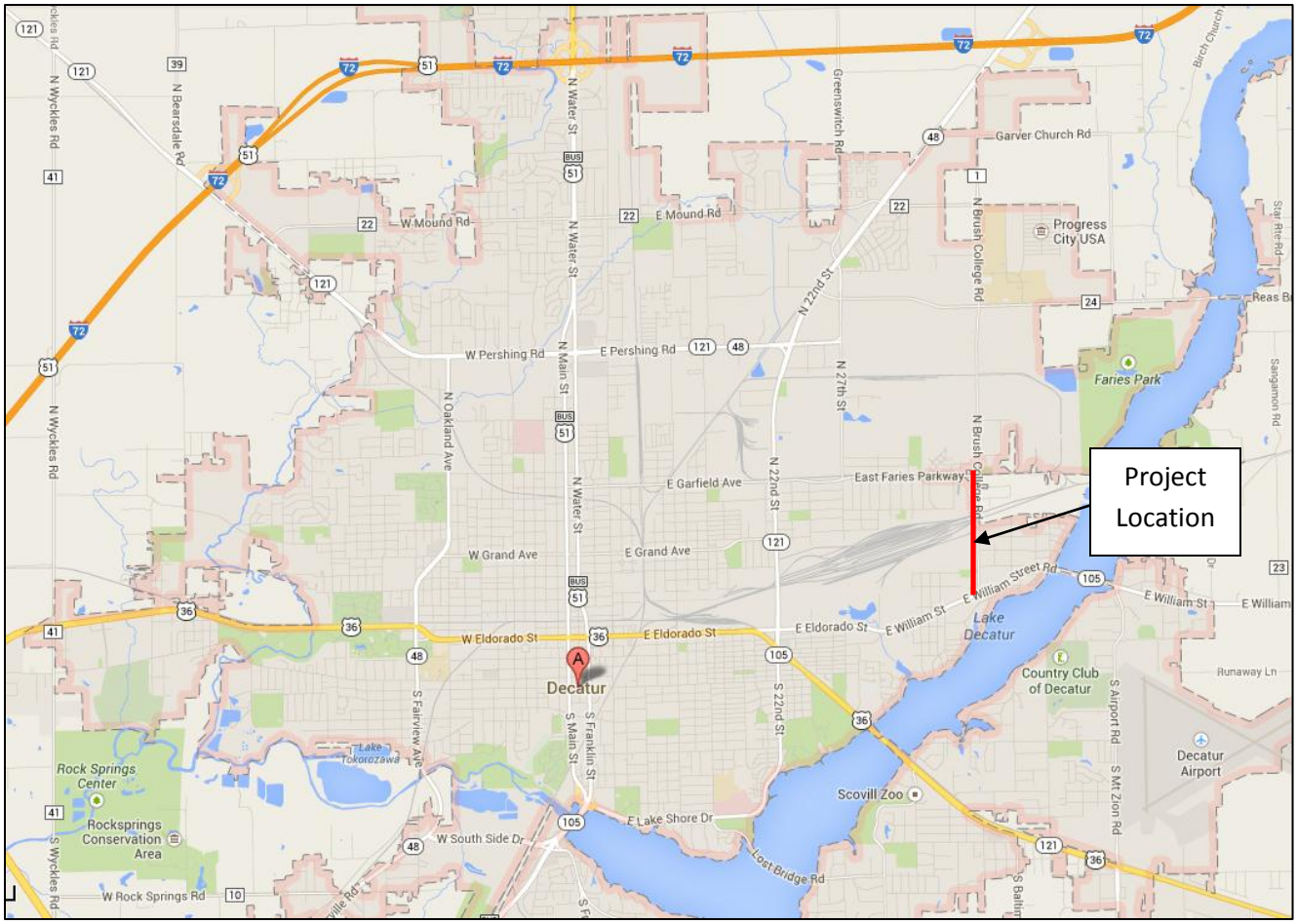
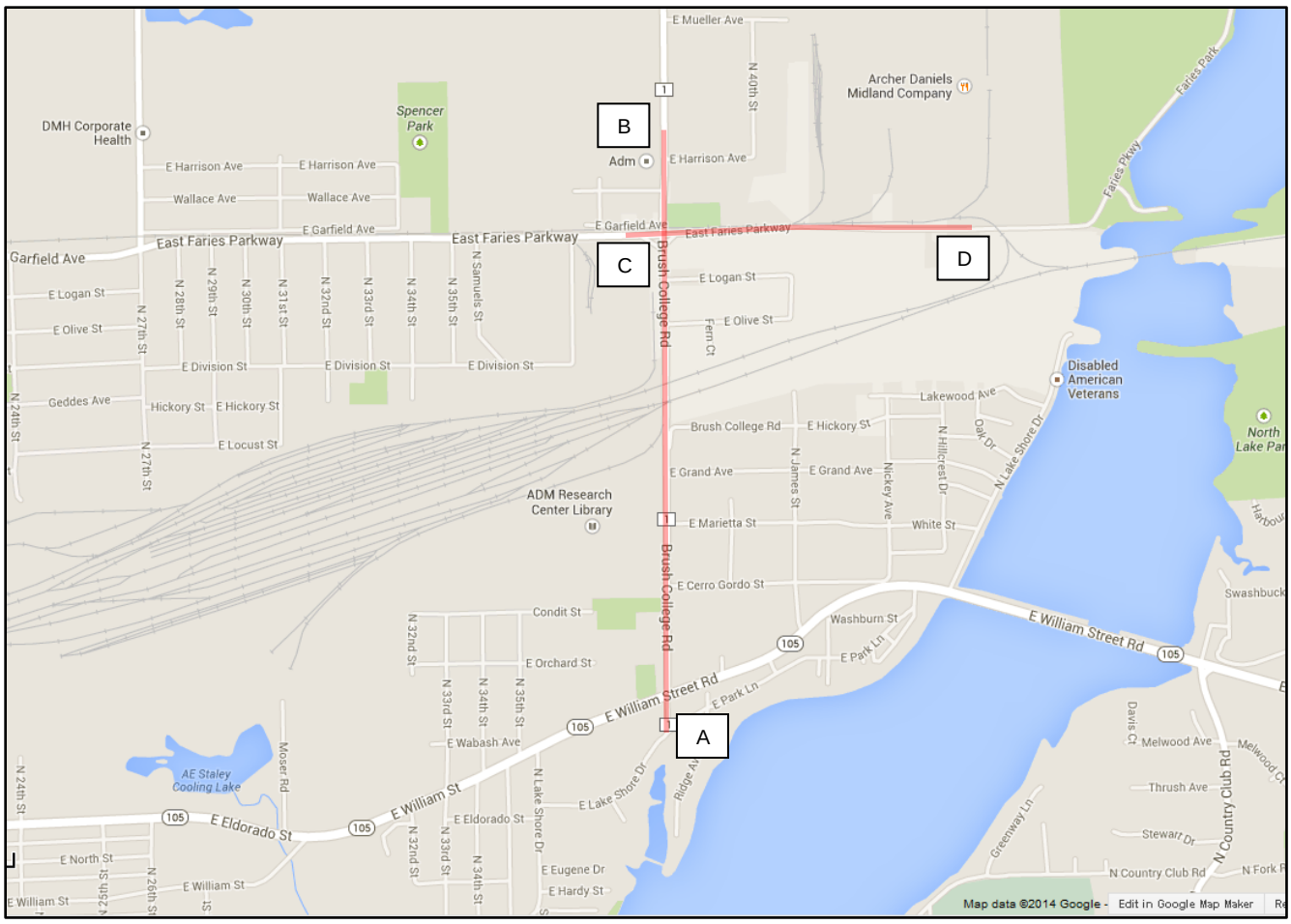


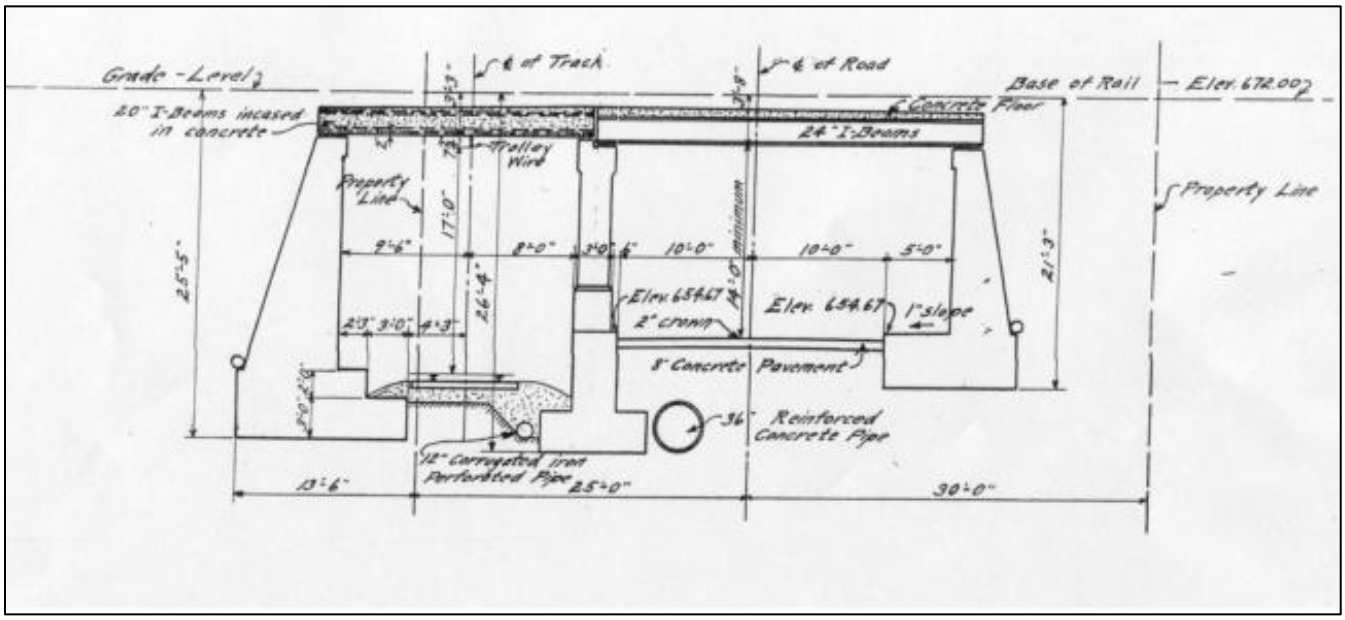
Exhibit A-1 – Project Location Map

Exhibit A-2 - Brush College Road Improvement Study – Project Location

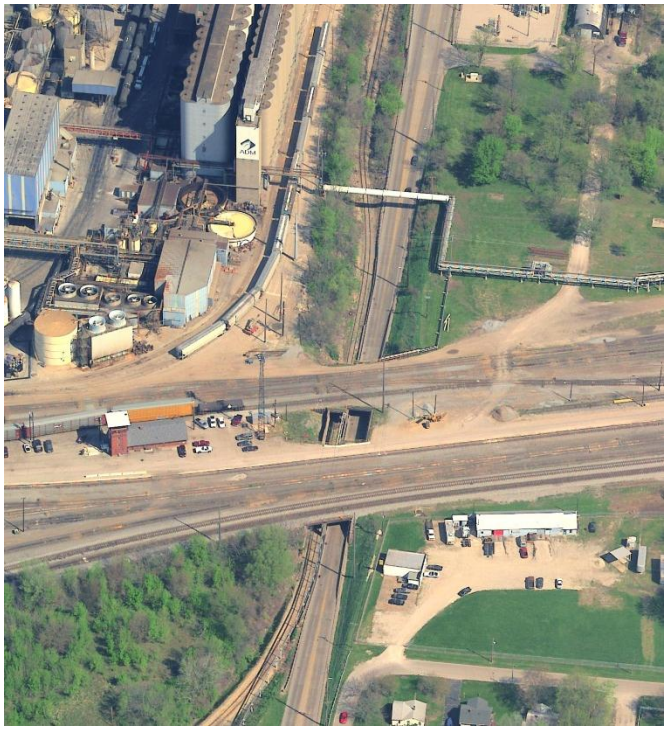


Description	Location	Station
A - Beginning of Project	Brush College Road at E. Lake Shore Dr.	10+54.36
	Brush College Road at E. William Street	14+18.16
	Brush College Road at E. Cerro Gordo St.	25+58 ±
	Brush College Road at E. Marietta St.	31+83.76
	Brush College Road at E. Grand Ave.	37+21 ±
	Brush College Road at E. Hickory St.	39+69 ±
	Brush College Road at NS Rail Yard	45+27.03
	Brush College Road at E. Olive St.	52+37 ±
	Brush College Road at E. Logan St.	56+94 ±
	Brush College Road at Faries Parkway	61+27.39
	Brush College Road at E. Harrison Ave.	69+31 ±
B - End of Project	End of Brush College Road Improvements	74+66.52
C- Begin - Faries Parkway	Begin Faries Parkway Improvements	206+60.86
	Faries Parkway at Brush College Road	210+36.00
D - End - Faries Parkway	End Faries Parkway Improvements	235+42.00

Exhibit A-3 - Brush College Road Study Area – Street Map

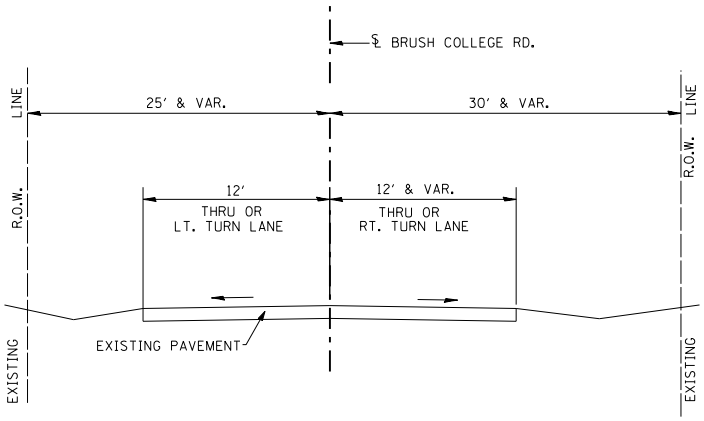


Original Underpass



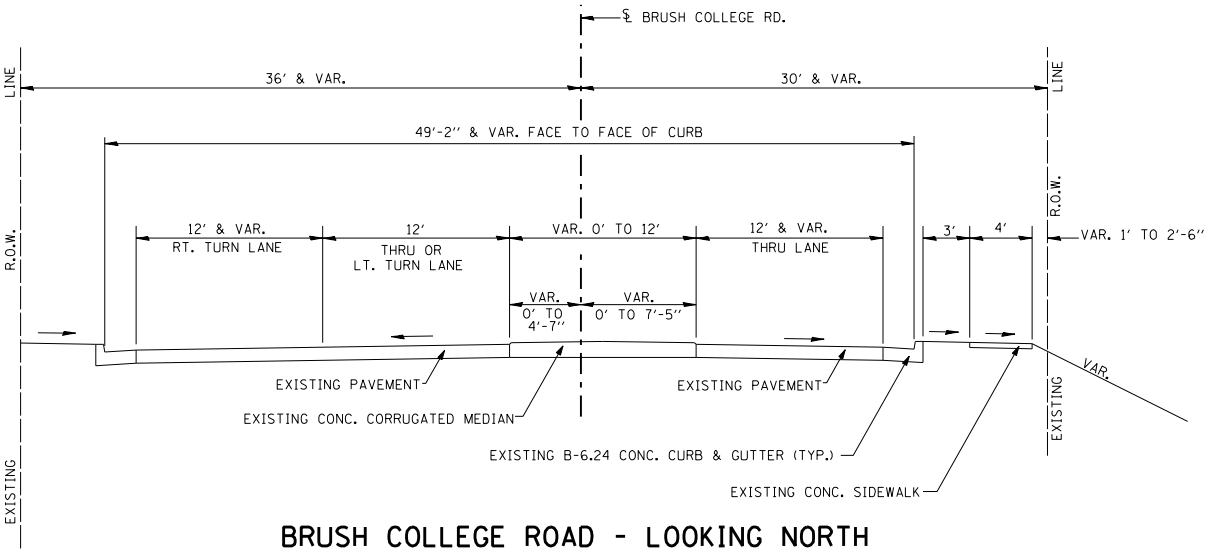
Existing Underpass

Exhibit A-4 - Existing Underpass



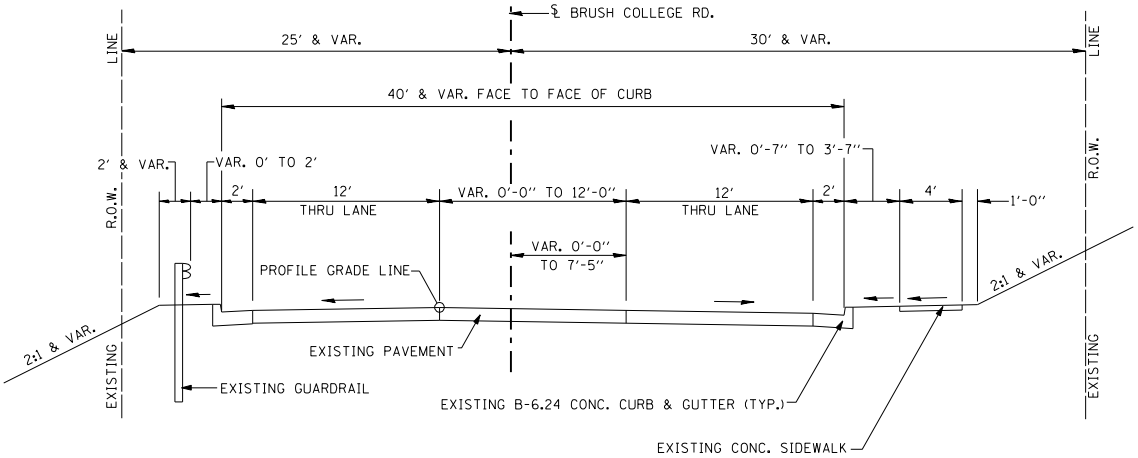
BRUSH COLLEGE ROAD - LOOKING NORTH

(STA. 10+54 TO 14+81



BRUSH COLLEGE ROAD - LOOKING NORTH

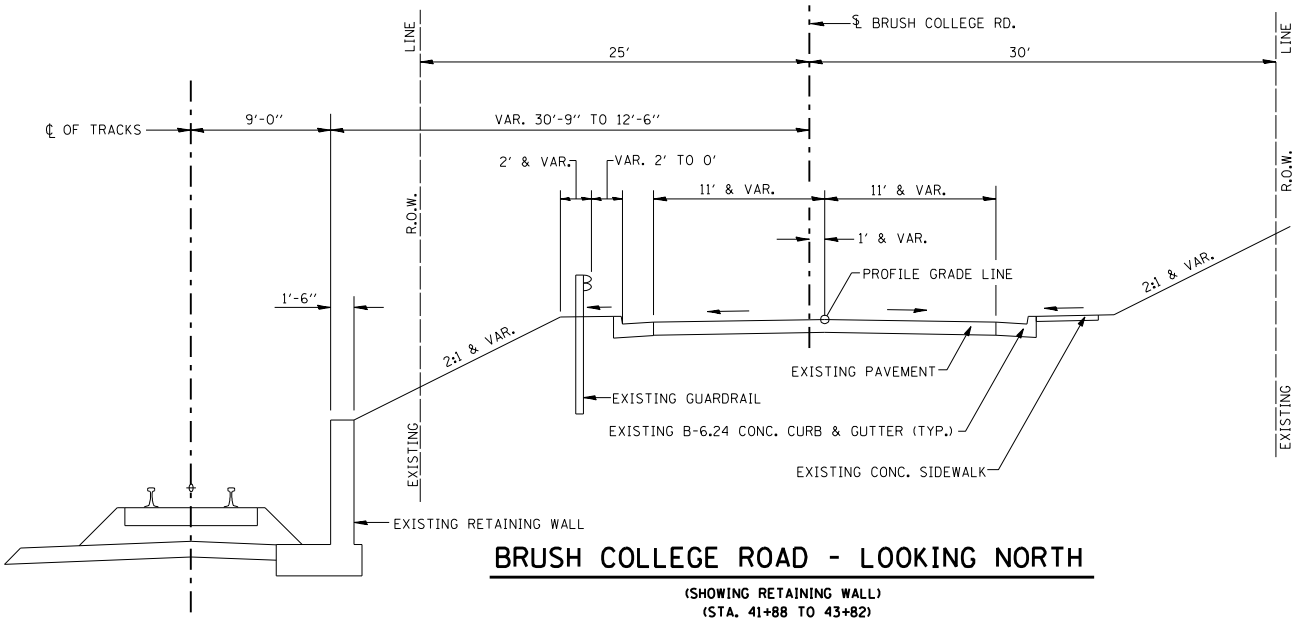
(STA. 14+81 TO 17+65)



BRUSH COLLEGE ROAD - LOOKING NORTH

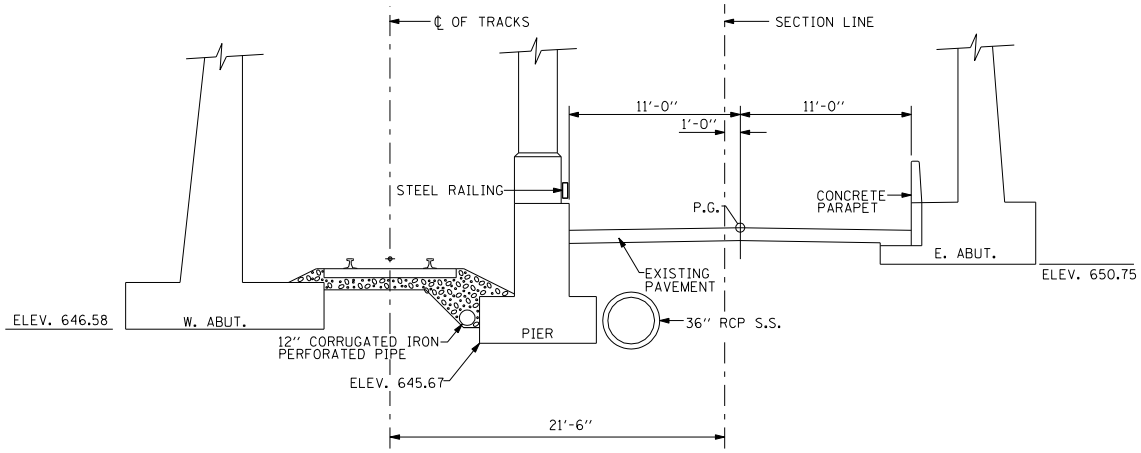
(STA. 17+65 TO 41+88)
(STA. 49+78 TO 52+00)

Exhibit A-5



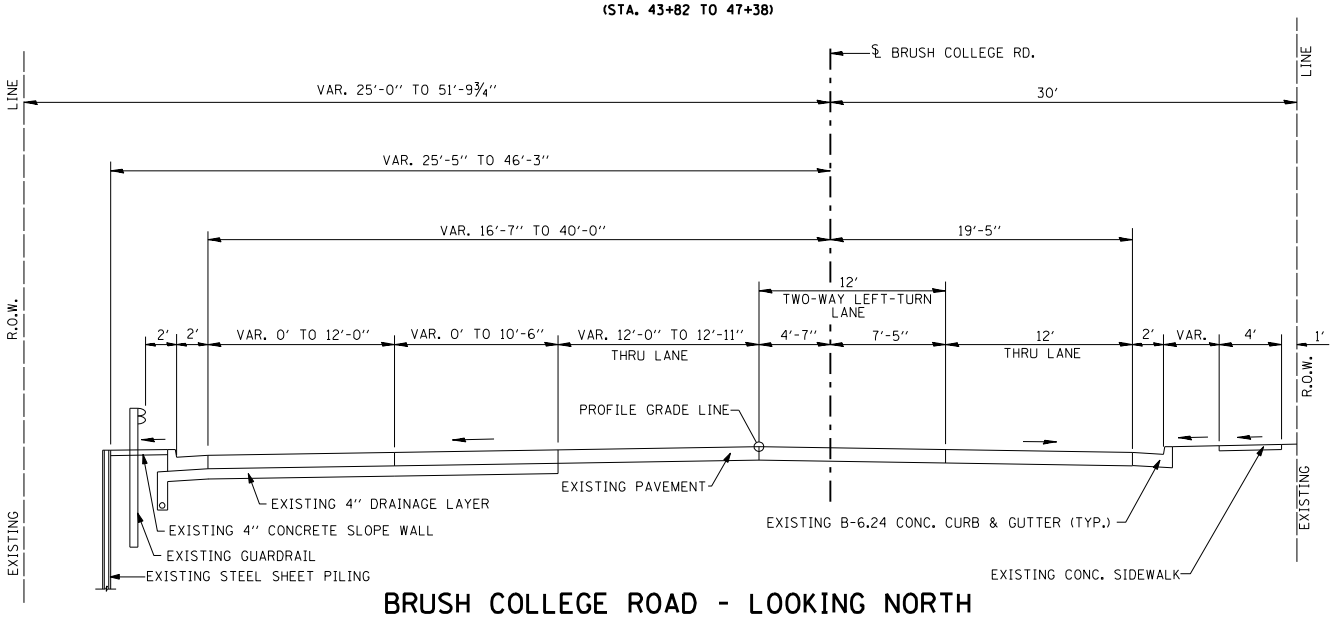
BRUSH COLLEGE ROAD - LOOKING NORTH

(SHOWING RETAINING WALL)
(STA. 41+88 TO 43+82)
(STA. 47+38 TO 49+78)



TYPICAL SECTION THROUGH VIADUCT

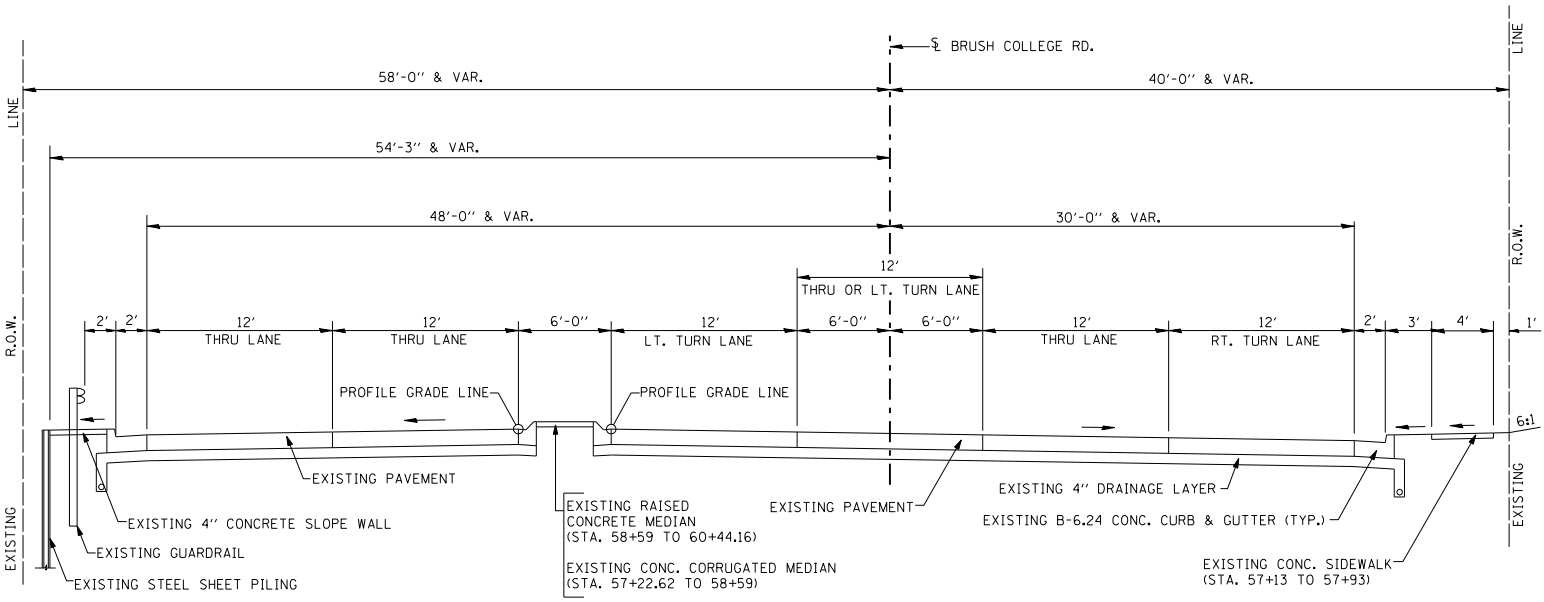
(STA. 43+82 TO 47+38)



BRUSH COLLEGE ROAD - LOOKING NORTH

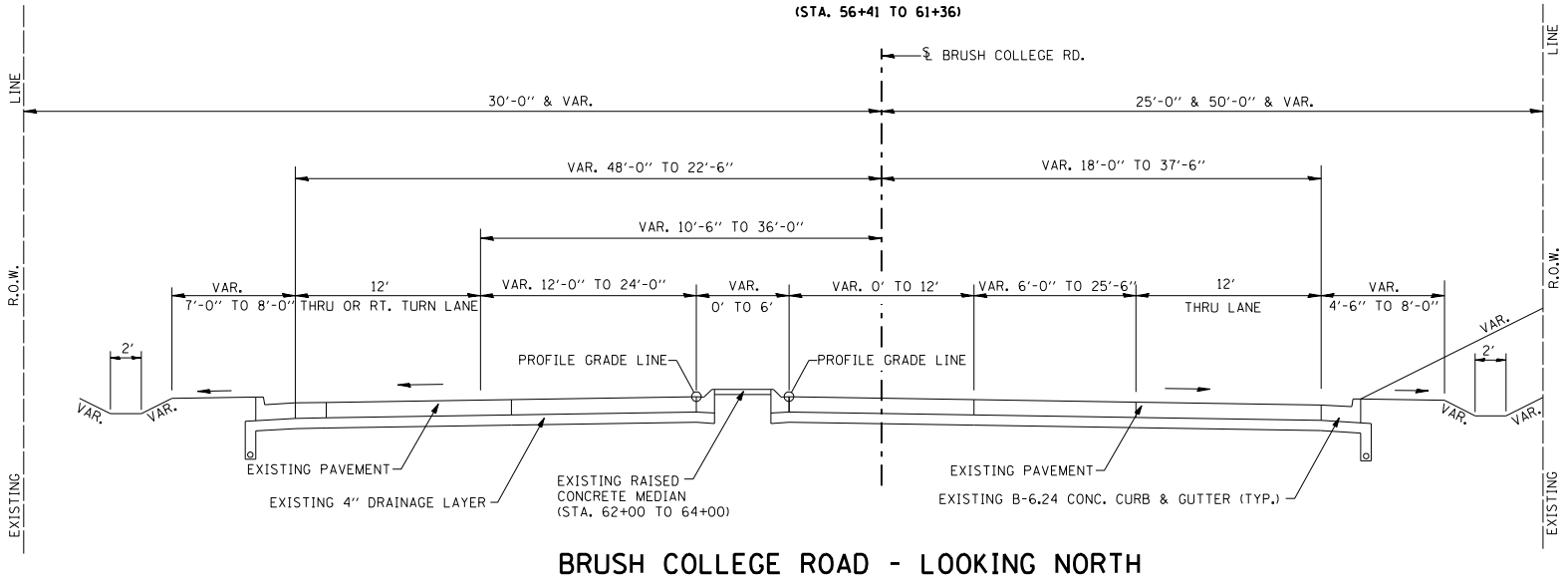
(STA. 52+00 TO 56+41)

Exhibit A-5



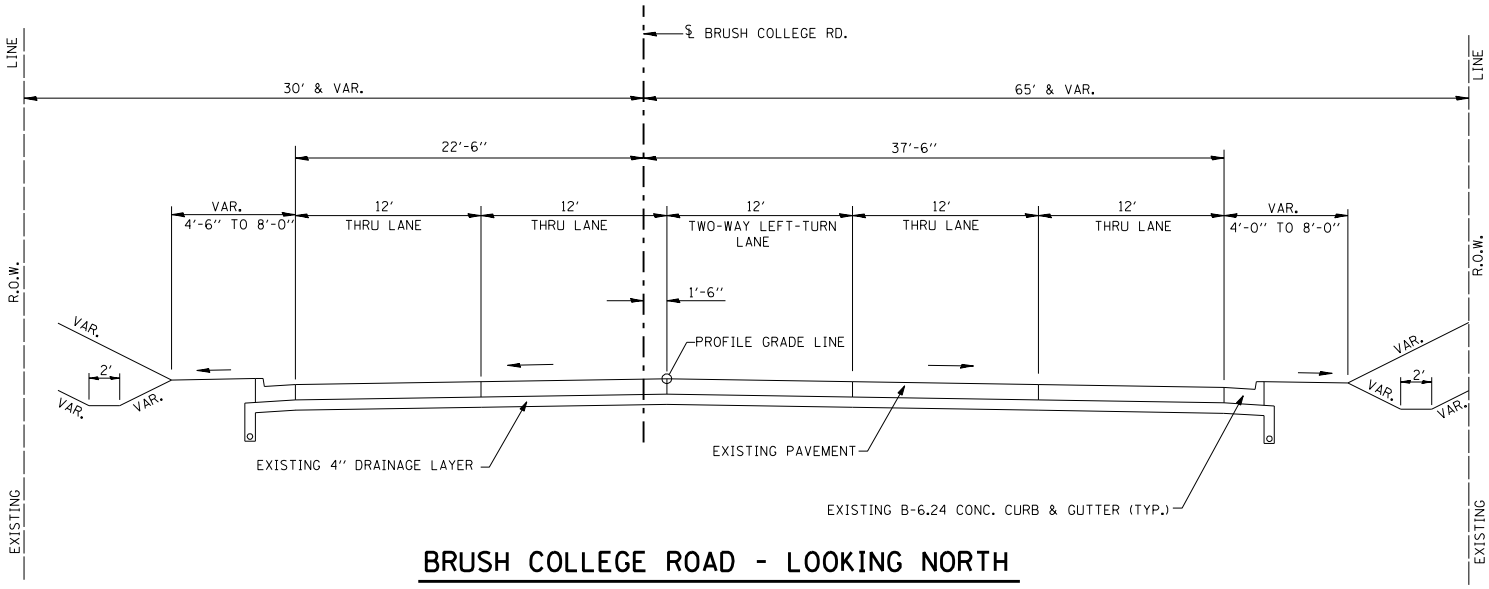
BRUSH COLLEGE ROAD - LOOKING NORTH

(STA. 56+41 TO 61+36)



BRUSH COLLEGE ROAD - LOOKING NORTH

(STA. 61+36 TO 67+98)



BRUSH COLLEGE ROAD - LOOKING NORTH

(STA. 67+98 TO 74+67)

Exhibit A-5

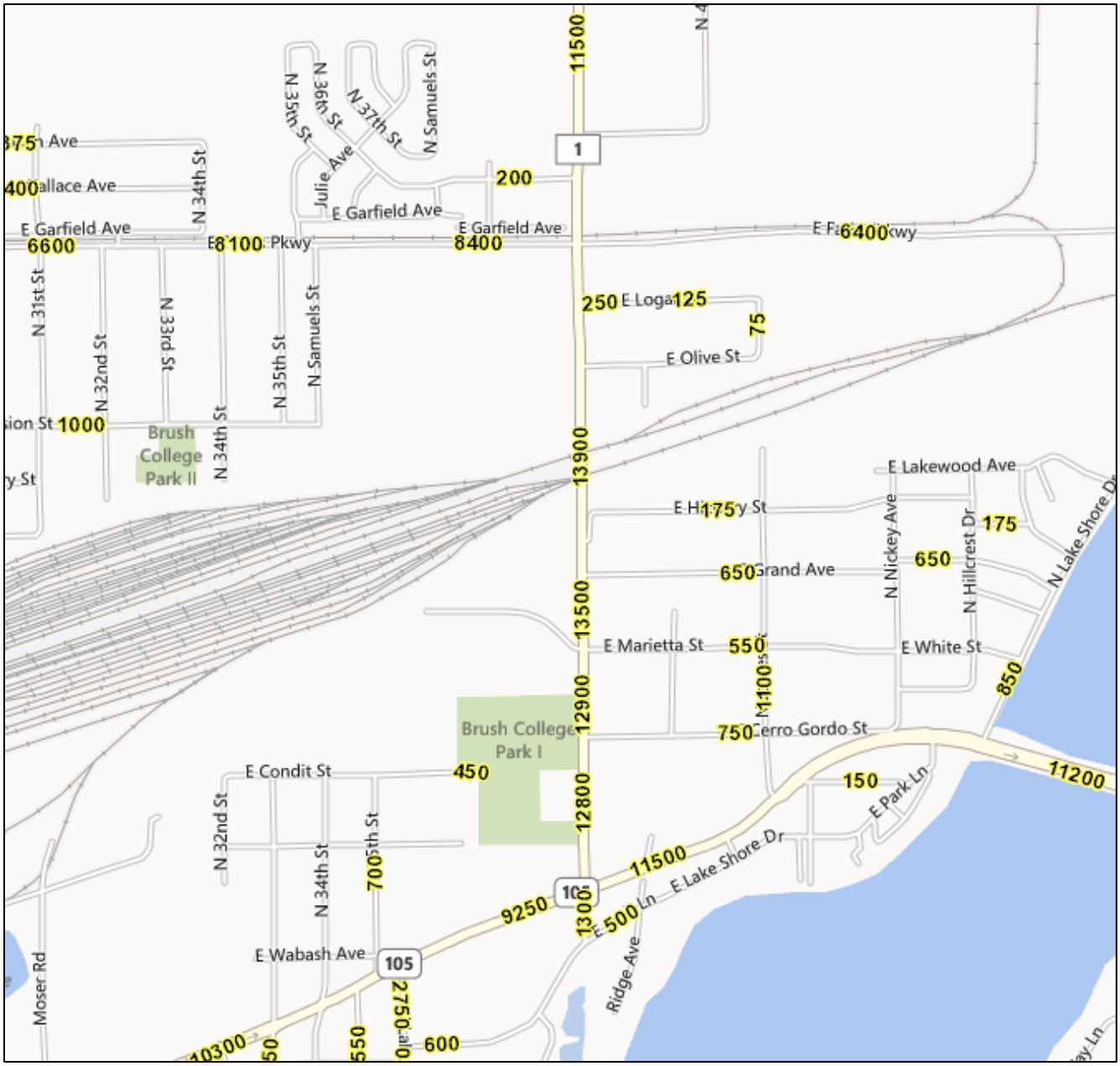


Exhibit A-6 – IDOT ADT Map

Exhibit A-7 - Summary of Crash Types (2009 - 2013)

Type of Crash	2009	2010	Year 2011	2012	2013	Total	Percentage
Faries Parkway Intersection							
Pedestrian	0	0	0	0	0	0	0%
Pedacyclist	0	0	0	0	0	0	0%
Train	0	0	0	0	0	0	0%
Animal	0	0	2	0	1	3	6%
Overturned	0	1	0	0	0	1	2%
Fixed Object	0	0	0	0	0	0	0%
Other Object	0	0	1	0	0	1	2%
Other Noncollision	0	1	0	0	0	1	2%
Parked Motor Vehicle	0	0	0	0	0	0	0%
Turning	0	0	4	3	2	9	19%
Rear End	1	6	3	3	1	14	29%
Sideswipe Same Direction	2	2	1	3	1	9	19%
Sideswipe Opposite Directio	0	0	0	0	1	1	2%
Head On	0	0	0	0	0	0	0%
Angle	0	2	6	1	0	9	19%
Total Accidents	3	12	17	10	6	48	
Injuries	1	2	4	0	2	9	19%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	1	1	1	1	1	5	10%
Ice/Snow Accidents	1	1	3	0	0	5	10%
Night Accidents	0	1	6	1	1	9	19%
William Street Intersection							
Pedestrian	0	0	0	0	0	0	0%
Pedacyclist	0	0	1	0	0	1	3%
Train	0	0	0	0	0	0	0%
Animal	0	0	0	0	0	0	0%
Overturned	0	0	0	0	0	0	0%
Fixed Object	0	0	0	0	0	0	0%
Other Object	0	1	0	0	0	1	3%
Other Noncollision	0	0	0	0	0	0	0%
Parked Motor Vehicle	0	0	0	0	0	0	0%
Turning	0	4	1	0	3	8	22%
Rear End	4	0	1	5	6	16	44%
Sideswipe Same Direction	1	0	0	1	0	2	6%
Sideswipe Opposite Directio	0	0	0	0	0	0	0%
Head On	0	1	1	0	0	2	6%
Angle	0	3	1	1	1	6	17%
Total Accidents	5	9	5	7	10	36	
Injuries	1	1	2	0	0	4	11%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	3	1	2	1	7	19%
Ice/Snow Accidents	0	0	0	0	1	1	3%
Night Accidents	0	1	1	0	0	2	6%
Marietta Street/ADM Research Center Entrance							
Turning	1	0	0	0	0	1	14%
Rear End	1	1	1	1	2	6	86%
Total Accidents	2	1	1	1	2	7	
Injuries	1	0	0	0	0	1	14%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	0	0	0	0	0	0%
Ice/Snow Accidents	0	0	0	0	0	0	0%
Night Accidents	0	0	0	0	0	0	0%

Exhibit A-7 (Cont.) - Summary of Crash Types (2009 - 2013)

Type of Crash	2009	2010	Year 2011	2012	2013	Total	Percentage
Brush College Road at E. Olive Street							
Fixed Object	0	0	2	0	0	2	29%
Rear End	2	0	0	0	1	3	43%
Sideswipe Opposite Directio	0	0	1	1	0	2	29%
Total Accidents	2	0	3	1	1	7	
Injuries	0	0	0	0	0	0	0%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	0	0	0	0	0	0%
Ice/Snow Accidents	1	0	2	0	0	3	43%
Night Accidents	1	0	0	0	0	1	14%
Brush College Road at E. Hickory Street							
Rear End	0	0	0	1	0	1	50%
Sideswipe Opposite Directio	0	0	0	0	1	1	50%
Total Accidents	0	0	0	1	1	2	
Injuries	0	0	0	0	0	0	0%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	0	0	0	0	0	0%
Ice/Snow Accidents	0	0	0	0	0	0	0%
Night Accidents	0	0	0	0	0	0	0%
Brush College Road at E. Grand Ave.							
Animal	0	0	0	1	0	1	33%
Fixed Object	0	1	0	0	0	1	33%
Rear End	0	1	0	0	0	1	33%
Total Accidents	0	2	0	1	0	3	
Injuries	0	1	0	0	0	1	33%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	0	0	0	0	0	0%
Ice/Snow Accidents	0	0	0	0	0	0	0%
Night Accidents	0	0	0	0	0	0	0%
Brush College Road between Cerro Gordo and E. Marietta Street							
Parked Motor Vehicle	0	1	0	0	0	1	50%
Rear End	0	0	0	0	1	1	50%
Total Accidents	0	1	0	0	1	2	
Injuries	0	1	0	0	0	1	50%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	0	0	0	0	0	0%
Ice/Snow Accidents	0	0	0	0	0	0	0%
Night Accidents	0	0	0	0	0	0	0%
Brush College Road between William Street and Cerro Gordo							
Rear End	1	0	1	0	0	2	67%
Angle crash	1	0	0	0	0	1	33%
Total Accidents	2	0	1	0	0	3	
Injuries	1	0	1	0	0	2	67%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	0	1	0	0	1	33%
Ice/Snow Accidents	0	0	0	0	0	0	0%
Night Accidents	0	0	0	0	0	0	0%

Exhibit A-7 (Cont.) - Summary of Crash Types (2009 - 2013)

	Year						
Type of Crash	2009	2010	2011	2012	2013	Total	Percentage
Brush College Road at Harrison Ave							
Animal	1	0	0	0	0	1	25%
Rear End	0	0	0	1	0	1	25%
Sideswipe Same Direction	0	1	0	0	0	1	25%
Angle	0	0	1	0	0	1	25%
Total Accidents	1	1	1	1	0	4	
Injuries	0	0	0	0	0	0	0%
Fatalities	0	0	0	0	0	0	0%
Wet Accidents	0	1	0	0	0	1	25%
Ice/Snow Accidents	0	0	0	0	0	0	0%
Night Accidents	0	0	0	0	0	0	0%

Source: Macon County Sheriff's Office

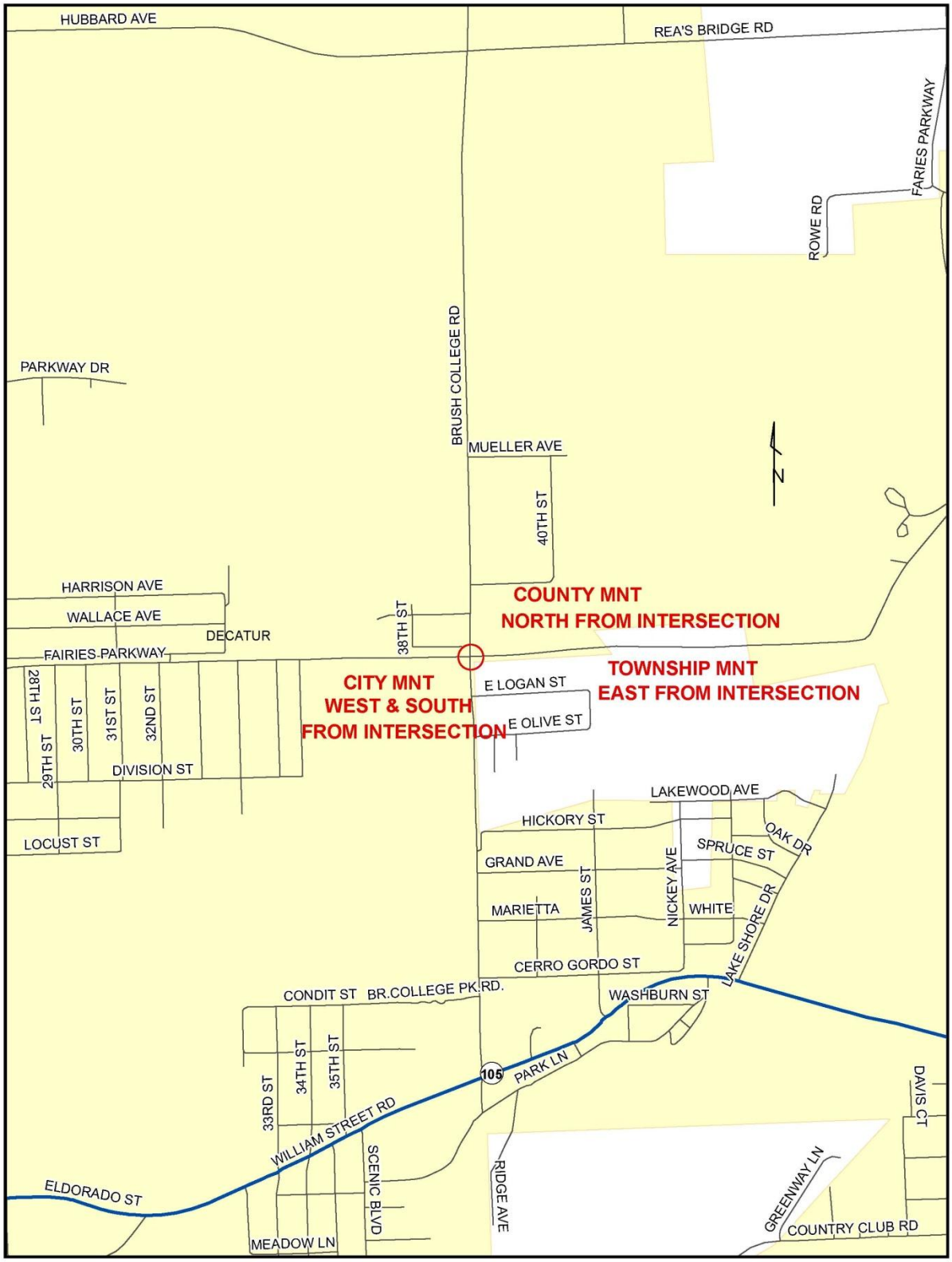


Exhibit A-8 - Jurisdictional Boundaries

Yellow – City of Decatur

White – Decatur Township

Exhibit A-9 - Brush College Road from East Park Lane to Cerro Gordo Street

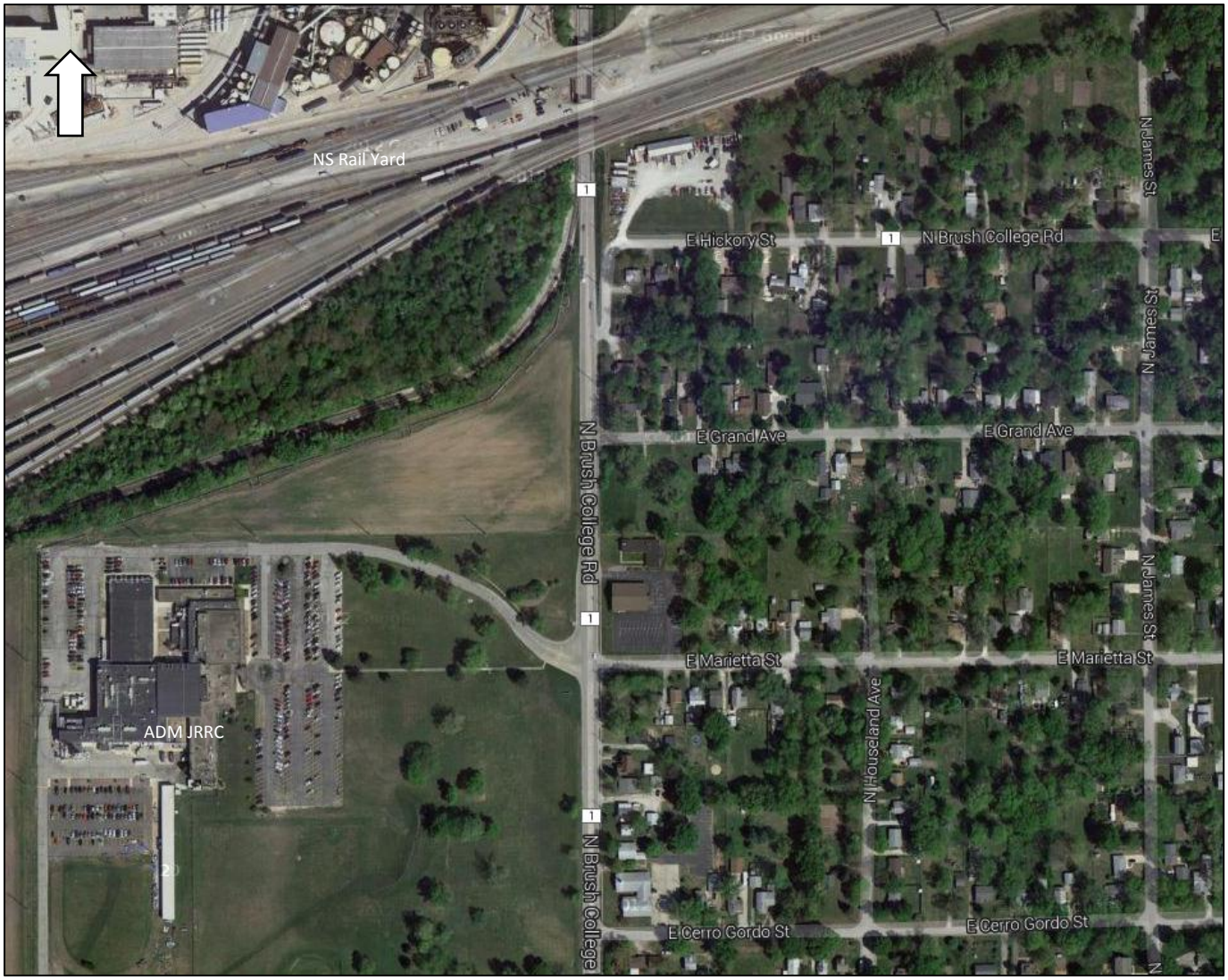


Exhibit A-10 – Brush College Road from E. Cerro Gordo St. to NS Yard Underpass

Exhibit A-11 – Brush College Road from NS Yard Underpass to Faries Parkway

Exhibit A-12 – Brush College Road from Faries Parkway to E. Harrison Ave.

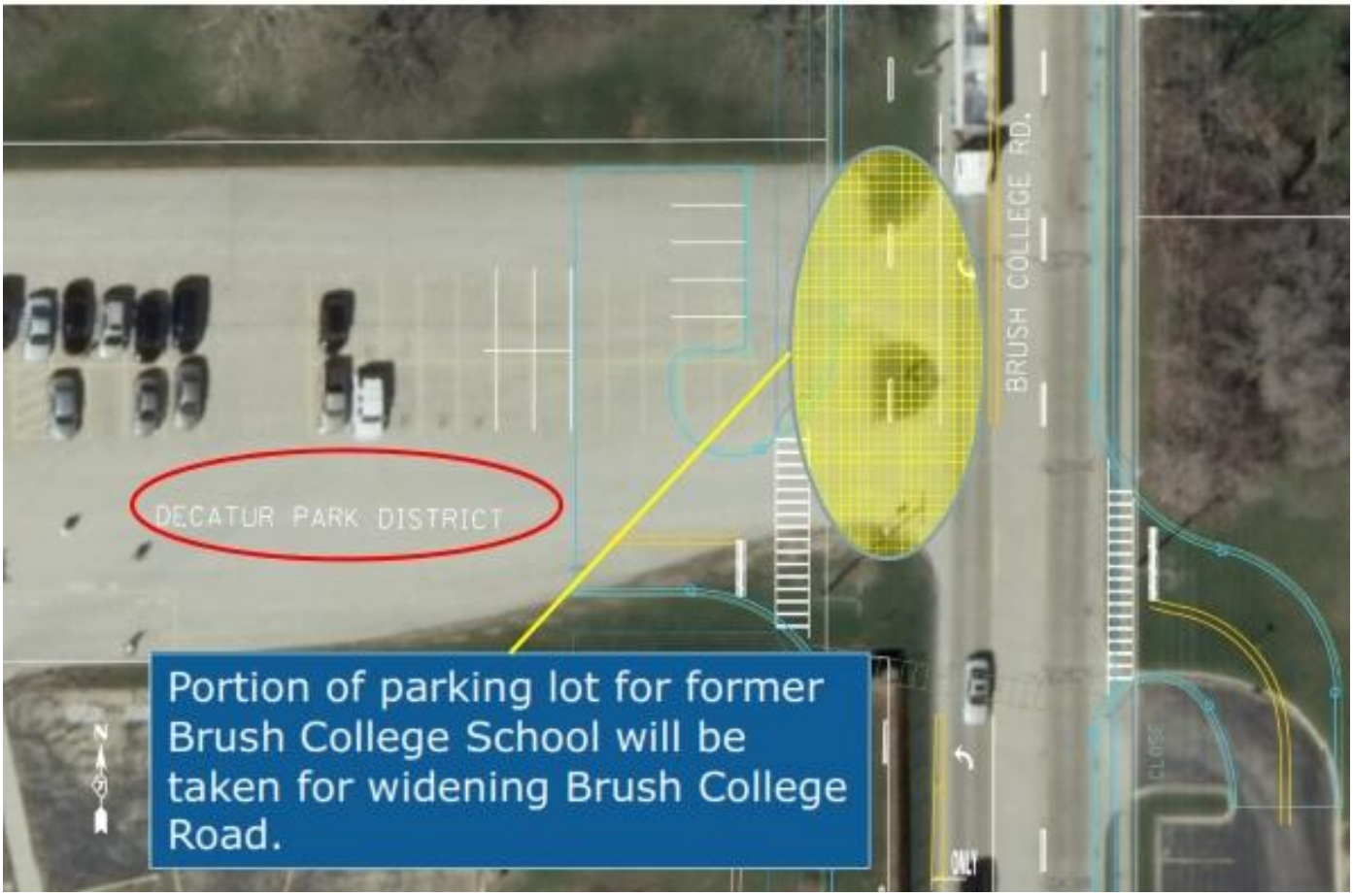
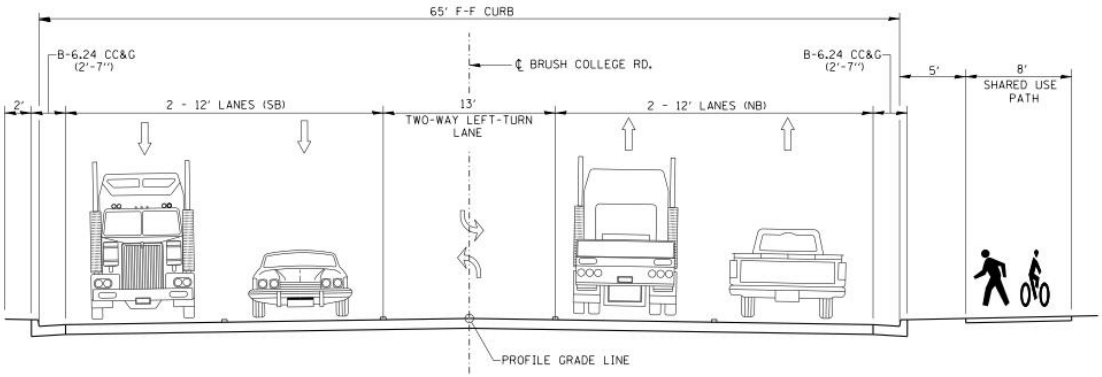
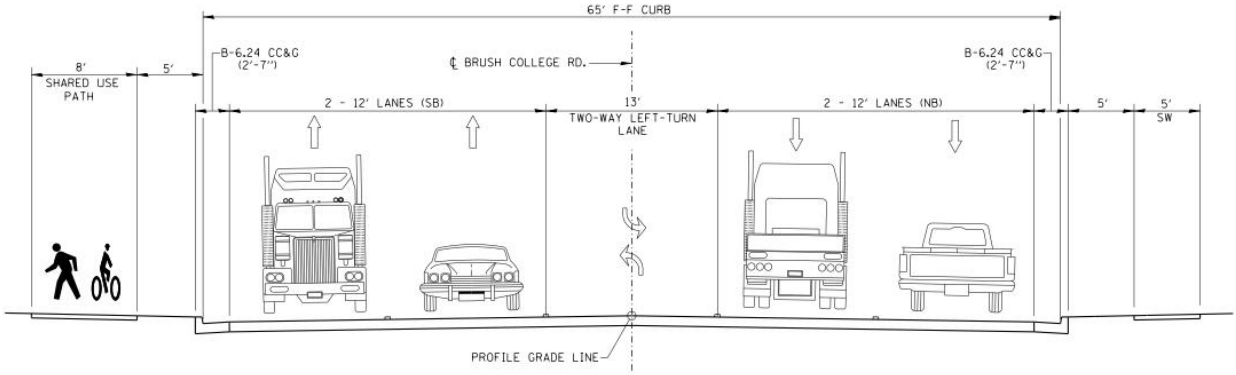


Exhibit A-13 – 4(f) Impacts – De Minimis



BRUSH COLLEGE ROAD - LOOKING NORTH

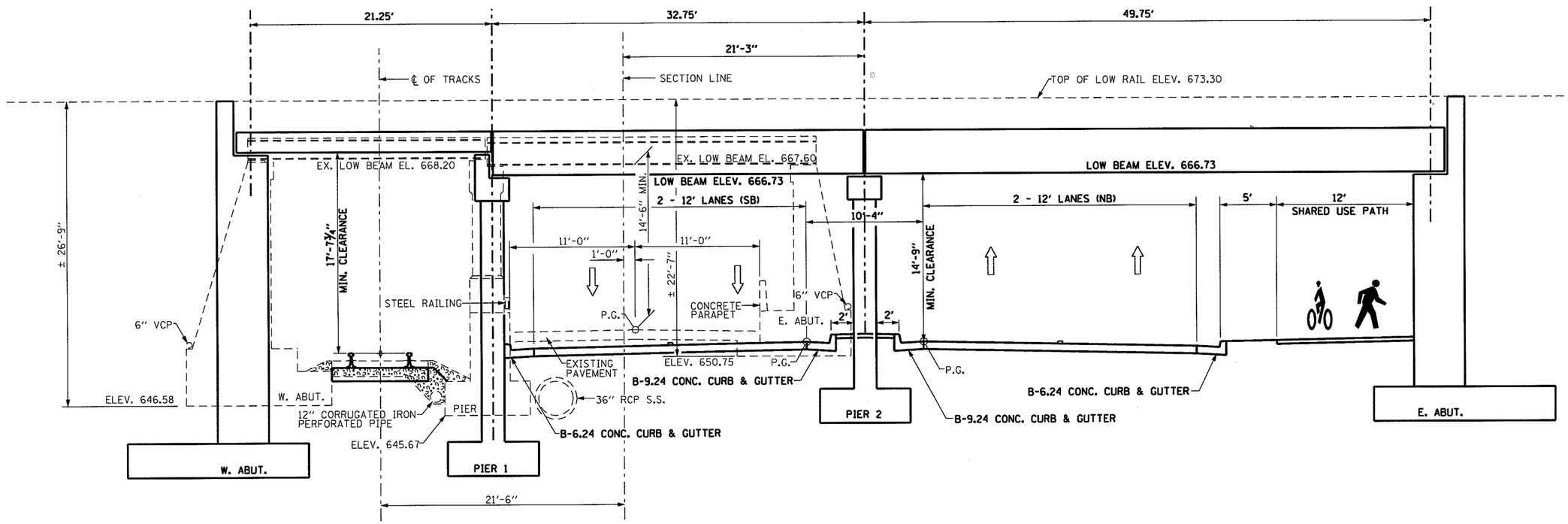
(NORTH OF MARIETTA ST. / JAMES R. RANDALL RESEARCH CENTER)



BRUSH COLLEGE ROAD - LOOKING NORTH

(SOUTH OF MARIETTA ST. / JAMES R. RANDALL RESEARCH CENTER)

Exhibit A-14 – Proposed Roadway Section



BRUSH COLLEGE ROAD - LOOKING NORTH @ STRUCTURE

(UNDERPASS OPTION)

Exhibit A-15

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRUSH COLLEGE ROAD TYPICAL SECTION AT STRUCTURE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - SRS	REVISED -							
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO.		
...\Proposed Typical Sections.dgn	1/21/2011 10:34:13 AM	DATE -	REVISED -		SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

Exhibit A-16.1 – Rendering – Proposed Overpass at NS Rail Yard – Looking West

Exhibit A-16.2 – Rendering – Proposed Overpass at NS Rail Yard – Looking Northwest

Exhibit A-17 – Rendering – Overpass at Faries Parkway – Ramp with Traffic Signals

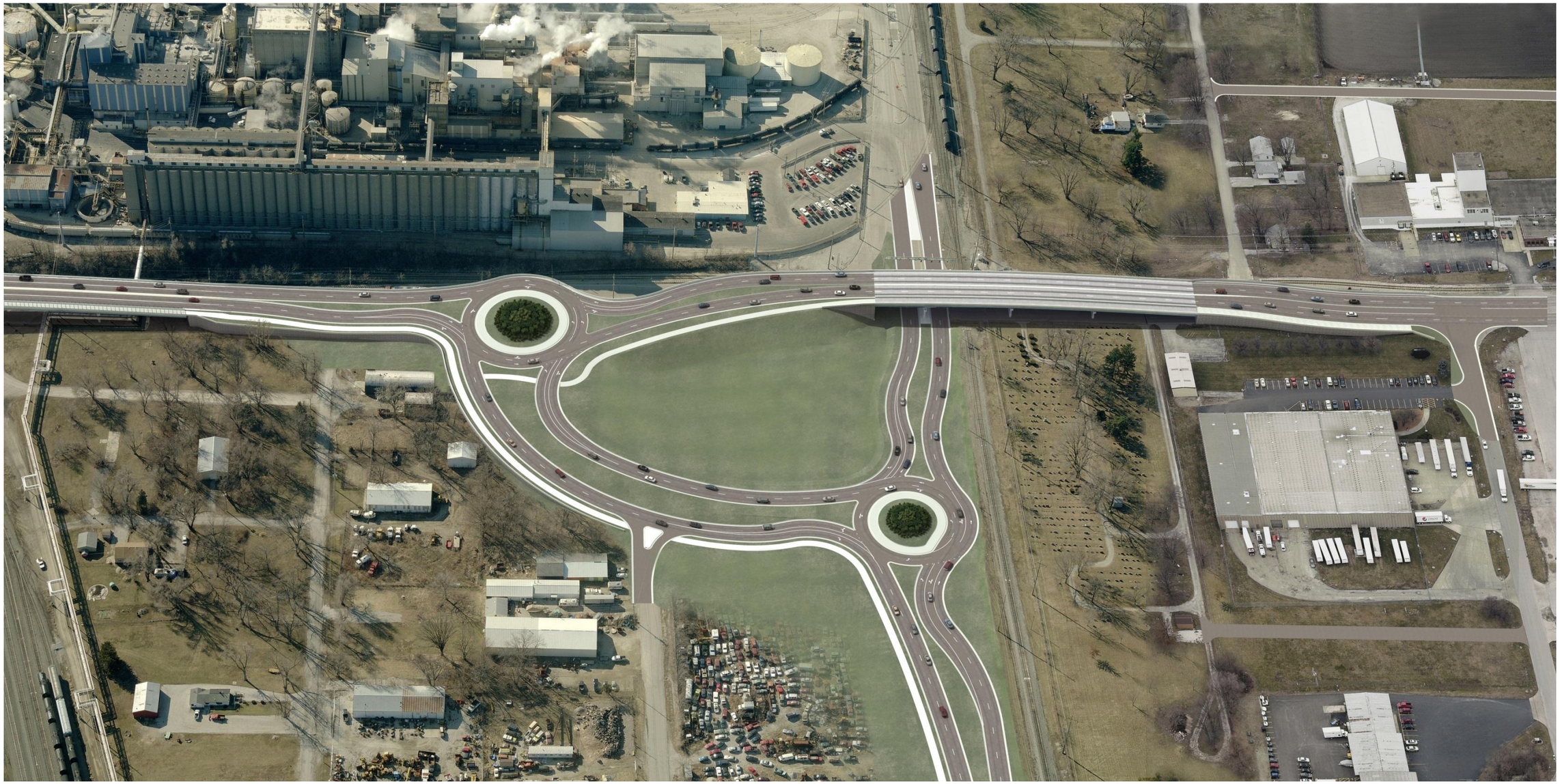


Exhibit A-18 – Rendering – Overpass at Faries Parkway – Ramp with Roundabouts

Exhibit A-19 – Rendering – Overpass at Faries Parkway – Looking West along Faries Parkway

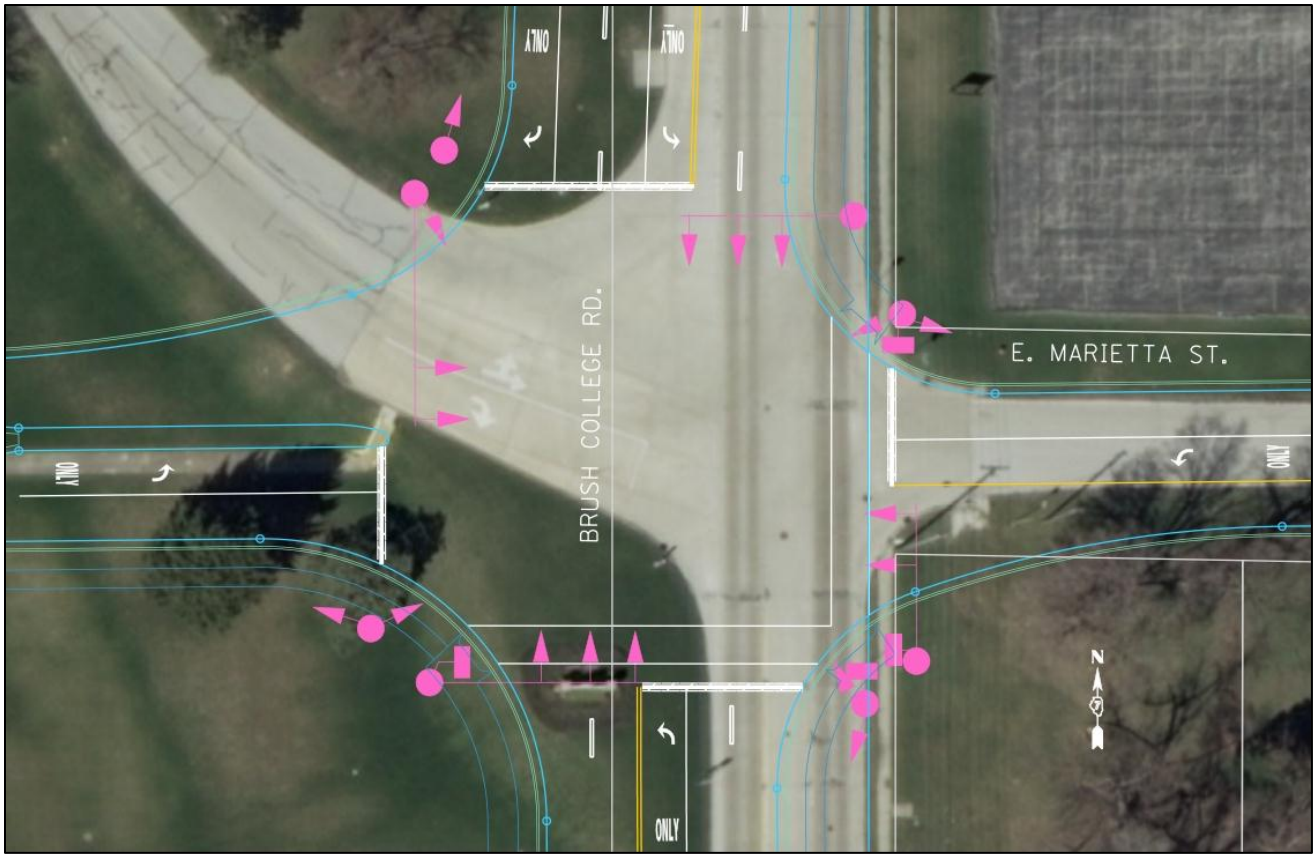


Exhibit A-20 - Improvements to Marietta Street / Brush College Road Intersection

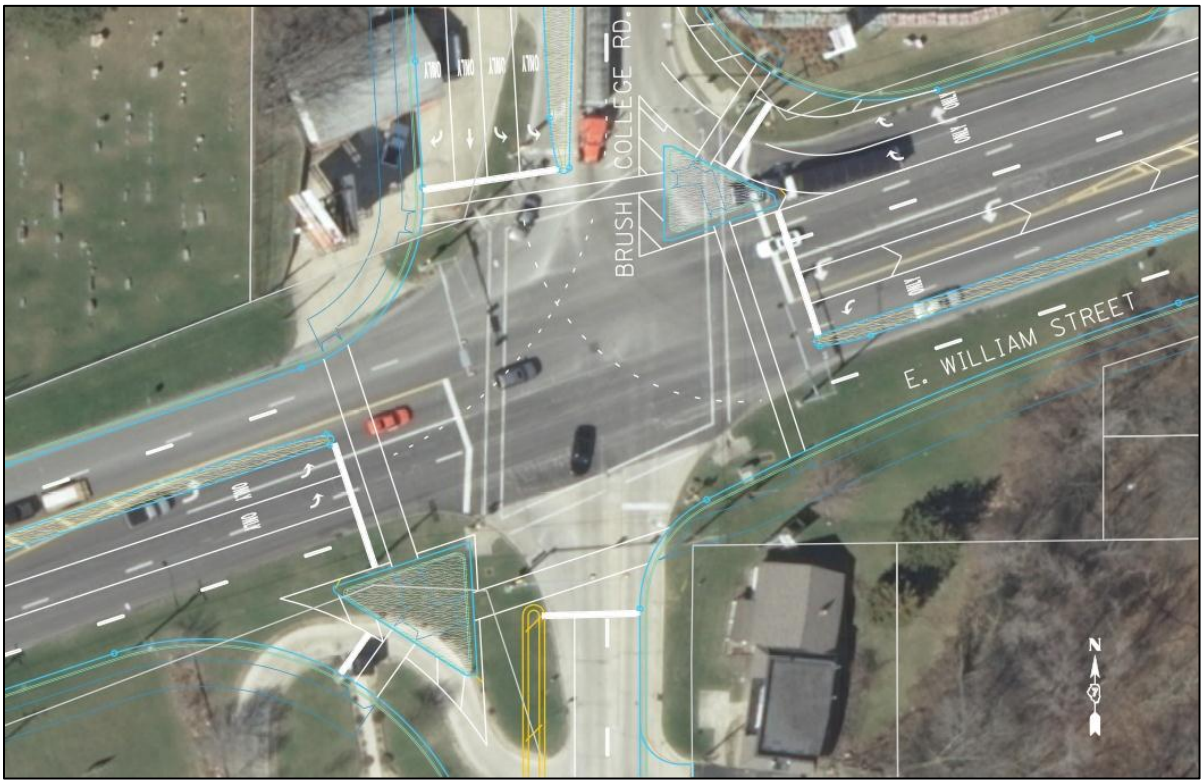
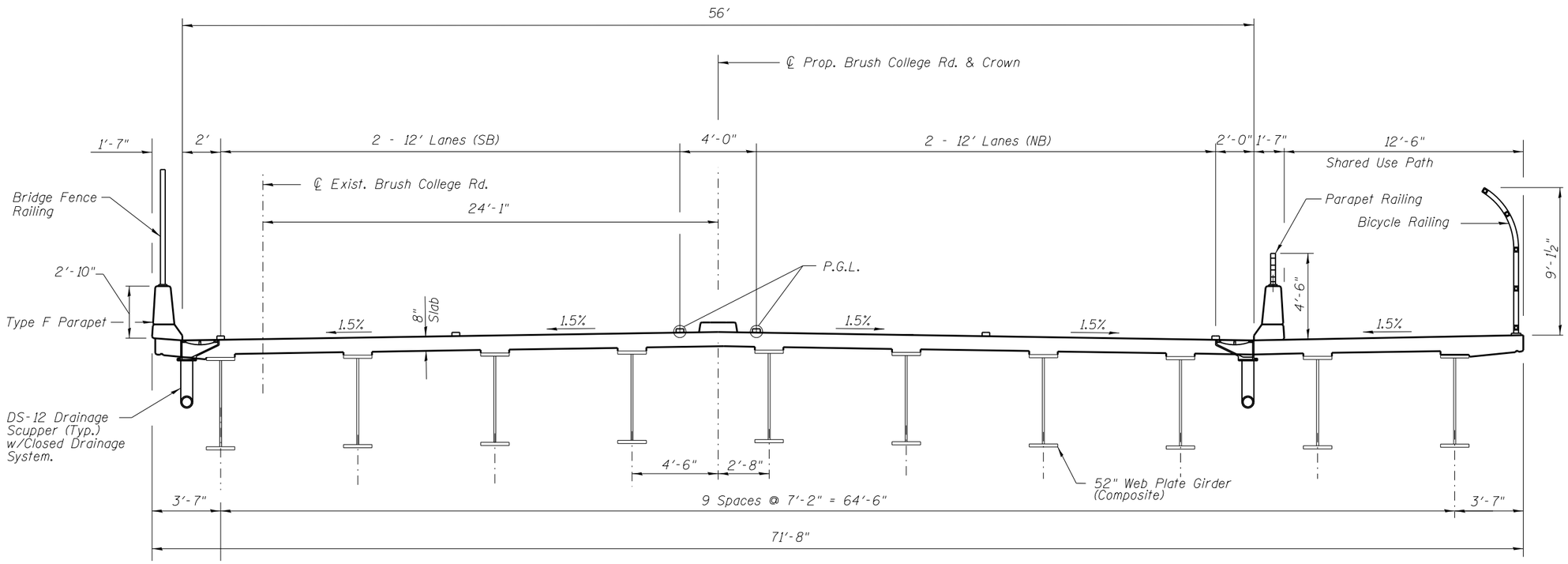


Exhibit A-21 – Improvements to William Street (IL 105) / Brush College Road Intersection

Exhibit A-22 – William Street (IL 105) / Brush College Road – Roundabout Option



NSRR BRIDGE
PROPOSED CROSS-SECTION

Exhibit A-23 - Proposed Section over NS Rail Yard

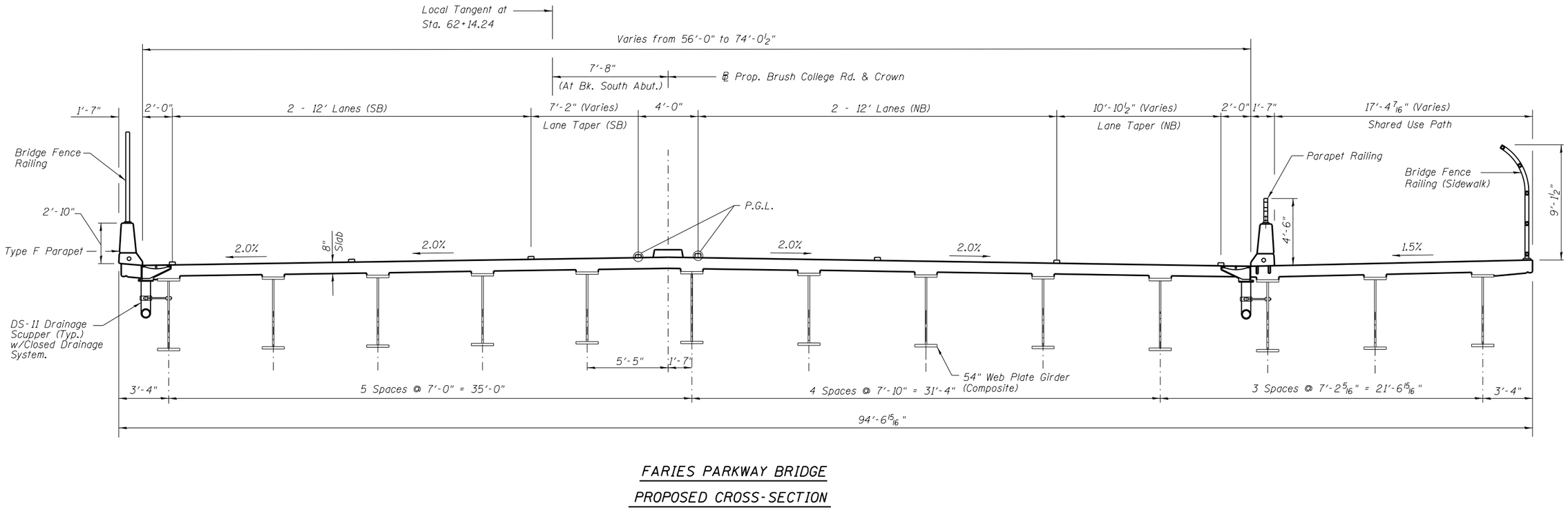


Exhibit A-24 - Proposed Section over Faries Parkway

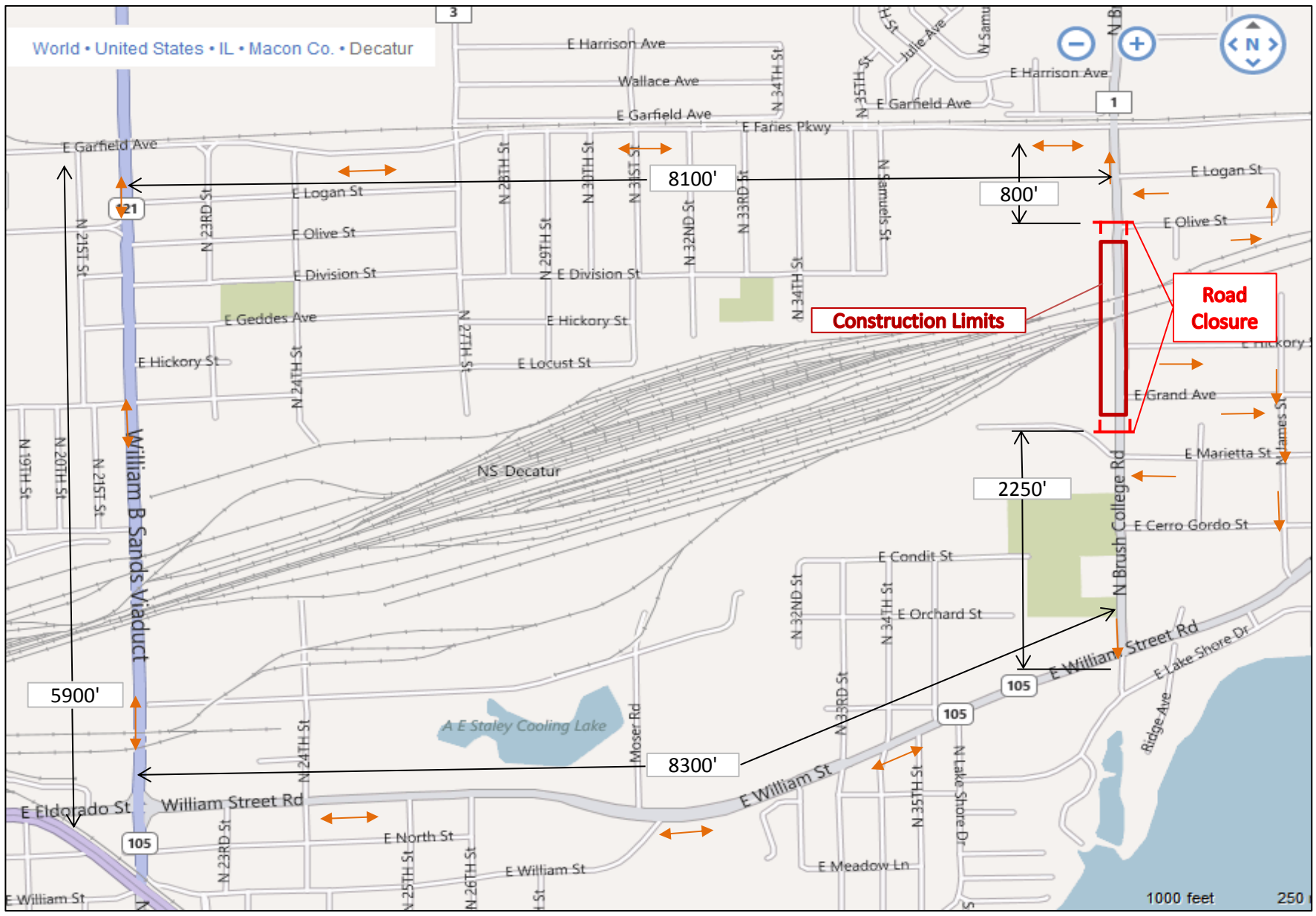


Exhibit A-25 - Alternate Routes for Brush College Road Closed South of Faries Parkway

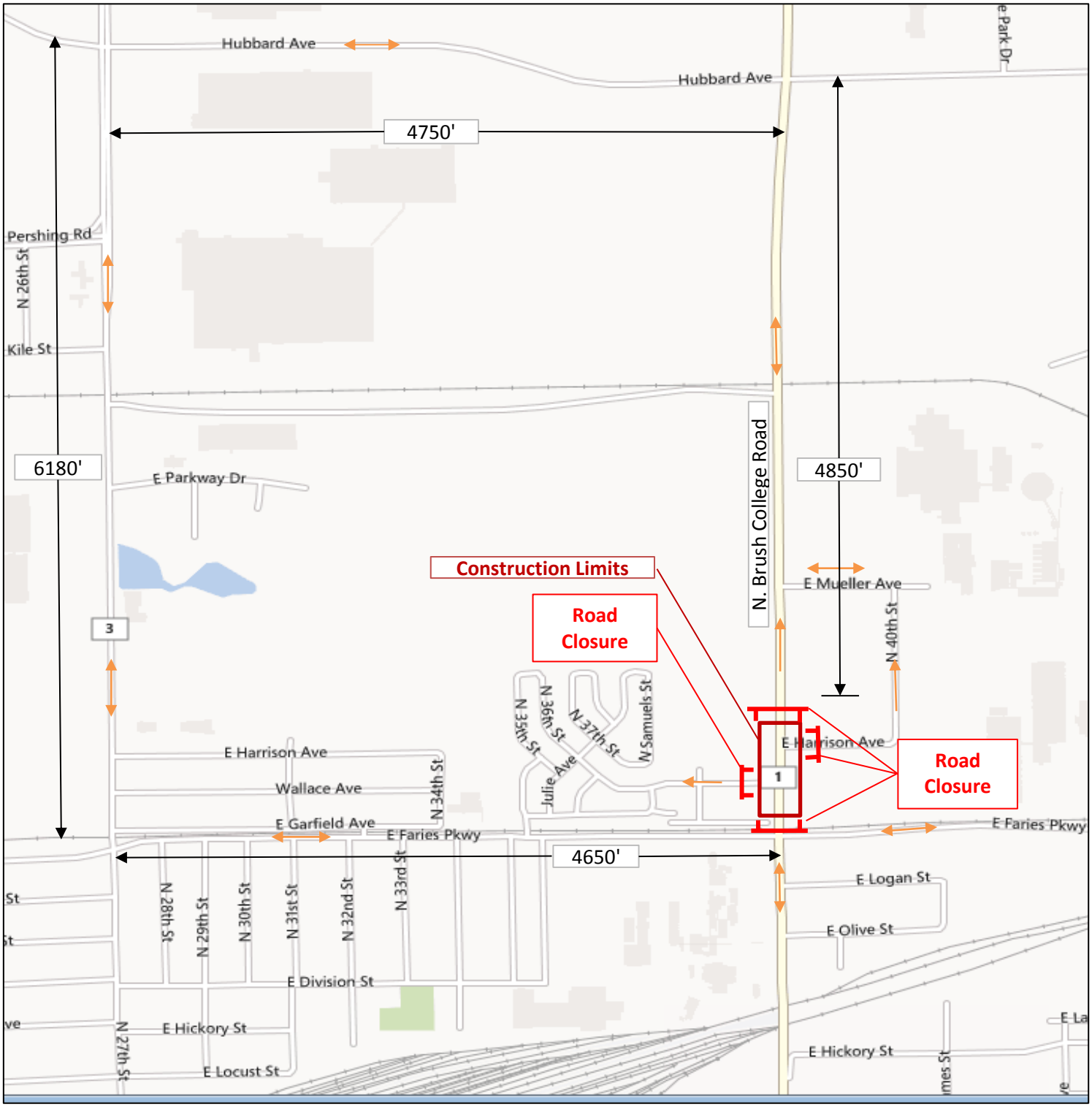


Exhibit A-26 - Alternate Routes for Brush College Road Closed North of Faries Parkway

Exhibit A-27
Cost Estimate

Route: Brush College Rd. (FAU 7448) City/County: Decatur / Macon
Section: 09-00933-00-BR Base Year: 2013

WORK CLASSIFICATION	Estimated Costs in $1,000's Segments 1	2	3	Totals
1. Clear and Grub (Tree Removal)	$ 11	$ 24	$ 20	$ 55
2. Earthwork				
a. Grading (Earth Exc., Furnished Exc., Topsoil)	$ 328	$ 358	$ 1,015	$ 1,700
b. Drainage (Storm Sewers, Manholes, Inlets).	$ 254	$ 595	$ 596	$ 1,445
3. Pavement				
a. Subbase, base, surface, and geotechnical fabric	$ 2,963	$ 1,666	$ 4,786	$ 9,415
b. Pavement Removal	$ 266	$ 134	$ 412	$ 812
c. Curb & gutter, medians, & concrete barriers	$ 385	$ 324	$ 876	$ 1,585
4. Grade Separations				
a. Grade separation - Brush College Rd. over NS Yard	$ -	$ 17,175	$ -	$ 17,175
b. Grade separation - Brush College Rd. over Faries Parkway	$ -	$ -	$ 6,903	$ 6,903
5. Retaining Wall Structures				
a. MSE Walls	$ -	$ 2,115	$ 1,384	$ 3,498
b. Temporary MSE Walls - NS Overpass stage construction	$ -	$ 666	$ -	$ 666
c. Concrete Structures (Retaining Walls along Brush College, CIP L-Walls w/ Drilled Shafts, Culvert Extensions)	$ 836	$ 653	$ 2	$ 1,491

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6. Miscellaneous Items				
a. Lighting	$ 160	$ 100	$ 470	$ 730
b. Pavement Markings & Reflective Pavement Markers	$ 42	$ 22	$ 52	$ 116
c. Sidewalks & Sidewalk Removal	$ 165	$ 80	$ 178	$ 423
d. Traffic control (assume 8% of roadway costs)	$ 332	$ 207	$ 586	$ 1,124
e. Traffic signals (temporary and permanent)	$ 230	$ 190	$ 395	$ 815
f. Signing (assume 1% of roadway costs)	$ 41	$ 26	$ 73	$ 140
g. Bridge Fence Railing & Parapet Railing	$ -	$ 213	$ 432	$ 645
h. Railroad Crossing Improvements (signal/gate at CNIC RR) - 2 locations	$ -	$ -	$ 700	$ 700
i. Building Removal	$ 40	$ 80	$ 140	$ 260
7. Other Items				
a. Construction Site Stormwater Pollution Control (Assume 3% of roadway costs)	$ 124	$ 78	$ 220	$ 421
b. Perimeter Erosion Barrier	$ 17	$ 10	$ 7	$ 34
c. Preliminary Site Investigations	$ -	$ 23	$ 127	$ 150
d. Environmental mitigation	$ 100	$ 200	$ 700	$ 1,000
8. Utilities (remove & replace) - sanitary sewer, water mains, fiber optics	$ -	$ 734	$ 944	$ 1,678
9. Subtotal (Categories 1 - 8)	$ 6,294	$ 25,670	$ 21,017	$ 52,982

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10. Incidentals (10% of all items except 2 grade separations & Utility relocations)	$ 629	$ 776	$ 1,317	$ 2,723
11. Contingencies (15% of all Construction items except Utility relocations)	$ 944	$ 3,740	$ 3,011	$ 7,696
12. Total Construction Cost (Lines 9 through 11)	$ 7,868	$ 30,187	$ 25,345	$ 63,400
13. Preliminary Engineering (8% of Line 12)	$ 629	$ 2,415	$ 2,028	$ 5,072
14. Construction Engineering (8% of Line 12)	$ 629	$ 2,415	$ 2,028	$ 5,072
15. Utilities Relocation				
a. Ameren Transmission Line Relocation (City portion)			$ 1,385	$ 1,385
b. Ameren 34/12kV Substation Rebuild			$ 2,161	$ 2,161
c. ADM Utility Relocation	$ -	$ 380	$ -	$ 380
d. NS Utility Relocation	$ -	$ 800	$ -	$ 800
16. Right-of-Way				
a. Residential property and relocations (TBD)	$ 99	$ 424	$ -	$ 523
b. Business property and relocations (TBD)	$ 706	$ 936	$ 5,945	$ 7,587
17. Total Project Cost (Lines 13-16)	$ 9,932	$ 37,557	$ 38,891	$ 86,380

This cost estimate is broken down into 3 sections to allow for 3 separate phases of construction.
Segment 1: All south of Sta. 27+00
Segment 2: From Sta. 27+00 to Sta. 52+00
Segment 3: All north of Sta. 52+00