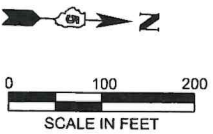
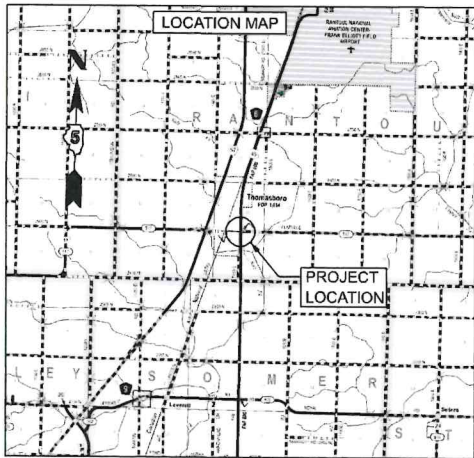
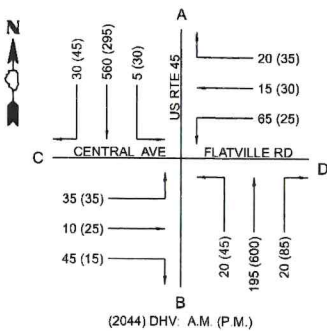


PROGRAM USED				HCS 2024				VERSION				8.3				PEAK HOUR FACTOR								0.92			
INTERSECTION		CONTROL DELAY (SECONDS)				A.M. P.M.	6.3				LEVEL OF SERVICE				A.M. P.M.	A											
							5.0									A											
APPROACH MOVEMENT		A (SB)				B (NB)				C (WB)				D (EB)													
		U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R										
NORTH INT. DEMAND	A.M.	--	--	595	--	80	--	250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P.M.	--	--	370	--	55	--	670	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAIN INT. DEMAND	A.M.	--	5	625	45	--	20	230	30	--	--	--	--	100	--	--	--	--	--	--	--	--	--	--	90	--	--
	P.M.	--	30	320	75	--	45	635	110	--	--	--	--	90	--	--	--	--	--	--	--	--	--	--	75	--	--
SOUTH INT. DEMAND	A.M.	45	--	670	--	--	--	235	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P.M.	60	--	335	--	--	--	730	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTH INT. QUEUE TO STORAGE	A.M.	--	--	--	--	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P.M.	--	--	--	--	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAIN INT. QUEUE TO STORAGE	A.M.	--	0.00	--	--	--	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P.M.	--	0.03	--	--	--	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SOUTH INT. QUEUE TO STORAGE	A.M.	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	P.M.	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LANE GROUP		SBL		SBT		SBR		NBL		NBT		NBR		WBL		WBT		WBR		EBL		EBT		EBR			
FLOW RATE (VEH/H)	A.M.	5	609	33	22	212	22	71	16	22	38	11	49														
	P.M.	33	321	49	49	652	92	27	33	38	38	27	16														
CONTROL DELAY (SECONDS)	A.M.	7.9	0.0	0.0	9.4	0.0	0.0	19.9	19.9	9.6	20.1	20.1	11.6														
	P.M.	9.8	0.0	0.0	8.5	0.0	0.0	20.7	20.7	11.7	20.8	20.8	9.8														
EXTRA DISTANCE TRAVEL TIME (EDTT) (S/VEH)	A.M.	--	--	--	--	--	--	25.4	25.4	--	21.3	21.3	--														
	P.M.	--	--	--	--	--	--	25.4	25.4	--	21.3	21.3	--														
EXPERIENCED TRAVEL TIME (ETT) (S/VEH)	A.M.	7.9	0.0	0.0	9.4	0.0	0.0	45.3	45.3	9.6	41.4	41.4	11.6														

ARE PROFILES PROVIDED? NO. IF NOT, STATE REASON WHY: NO CHANGES TO EXISTING
TYPE M-8.24 CURB AND GUTTER ON THE OUTSIDE OF THE ROADWAY/SHOULDERS.
TYPE B-8.12 CURB AND GUTTER ON THE MEDIAN.
TYPE M-4.4 CURB AND GUTTER ON THE CORNER LANDS.
ALL DIMENSIONS ARE E-E OF PAVEMENT, UNLESS OTHERWISE NOTED
THE RIGHT-OF-WAY LIMITS ARE PRELIMINARY.
DESIGN VEHICLE TURNING MOVEMENTS ARE ACCOMMODATED PER AUTOTURN SOFTWARE, VERSION 11.
THE SCOPE OF WORK: IMPROVEMENTS INCLUDING RECONSTRUCTION OF EXISTING AT-GRADE
FULL-DEPTH INTERSECTION TO RCUT INTERSECTION, PAVEMENT WIDENING, PAVEMENT
MARKING, AND SIGNAGE.
INTERSECTION DESIGN EXCEPTIONS: NONE
ADDITIONAL NOTES: WB-65 TURNING MOVEMENTS POSSIBLE WITH ENCROACHMENT

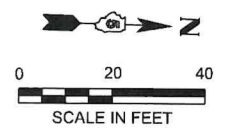


MOVEMENT	YEAR 2024 30TH MAXIMUM HOUR TRAFFIC		PERCENT TRUCK TRAFFIC IN 30th MAX HOUR	ESTIMATED PERCENT INCREASE BY	YEAR 2044 30th MAXIMUM HOUR TRAFFIC	
	A.M.	P.M.			A.M.	P.M.
AB	508	268	0.7		560	295
BA	179	546	0.9		195	600
AC	26	43	0.0		30	45
CA	30	34	0.0		35	35
AD	6	25	0.0		5	30
DA	17	30	0.0		20	35
BC	19	41	0.0		20	45
CB	41	13	0.0		45	15
BD	18	77	1.3		20	85
DB	58	23	4.3		65	25
CD	10	24	0.0		10	25
DC	15	27	0.0		15	30
TOTAL A	766	946			845	1040
TOTAL B	823	968			905	1065
TOTAL C	141	182			155	195
TOTAL D	124	206			135	230



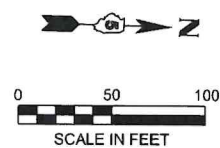
FAP ROUTE 800 (US 45)
 WEST LEG: FAS 517 WITH (W CENTRAL AVE.) (ROUTE 11)
 EAST LEG: FAS 517 (FLATVIEW RD.)
 SEC. NO. (I28X), (29X-1)N PROJ. NO. D570G92
 SCALE 1"=100' COUNTY Champaign
 SJN: P-95-007-27 REV. NO.

DESIGNED BY George Butler Associates DATE 9/13/2024
N Conley
 SATISFACTORY DISTRICT GEOMETRICS ENGINEER DATE
 SATISFACTORY DISTRICT PROGRAM DEVELOPMENT ENGINEER DATE
 SATISFACTORY DISTRICT OPERATIONS ENGINEER DATE
 APPROVED REGIONAL ENGINEER DATE

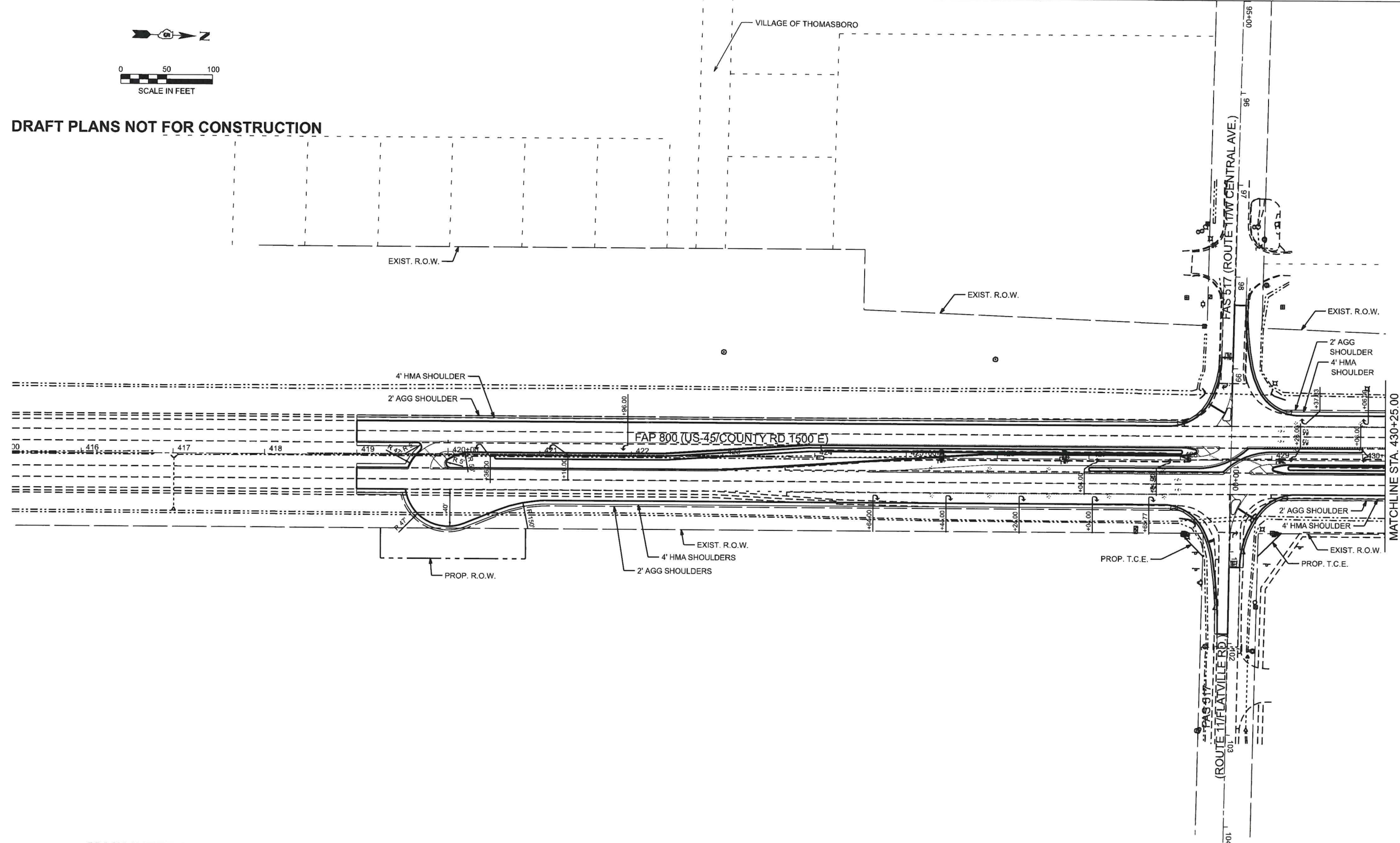


MAIN INTERSECTION DETAIL

INTERSECTION DESIGN STUDY	
FAP ROUTE <u>800</u>	(<u>US-45</u>)
W/TH	
FAS ROUTE <u>S17</u>	(<u>FLATVILLE AVE</u>)(<u>ROUTE 11</u>)
SEC. NO. <u>[(28X), (29X-1)]</u> N	
SCALE <u>1"=20'</u>	COUNTY <u>CHAMPAIGN</u>
S/JN : <u>P-95-007-27</u>	PROJ. NO. <u>D570G92</u>
I.D.S. SHEET <u>2</u> OF <u>5</u>	



DRAFT PLANS NOT FOR CONSTRUCTION



MAIN INTERSECTION, SOUTH BULB OUT - LEFT TURNS, RIGHT TURNS
DESIGN VEHICLE: WB-55

INTERSECTION DESIGN STUDY

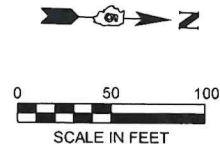
FAP ROUTE 800 (US 45)
FAS ROUTE 517 WITH (FLATVILLE AVE) (ROUTE 11)

SEC. NO. [[([28X), (29X-1)]N

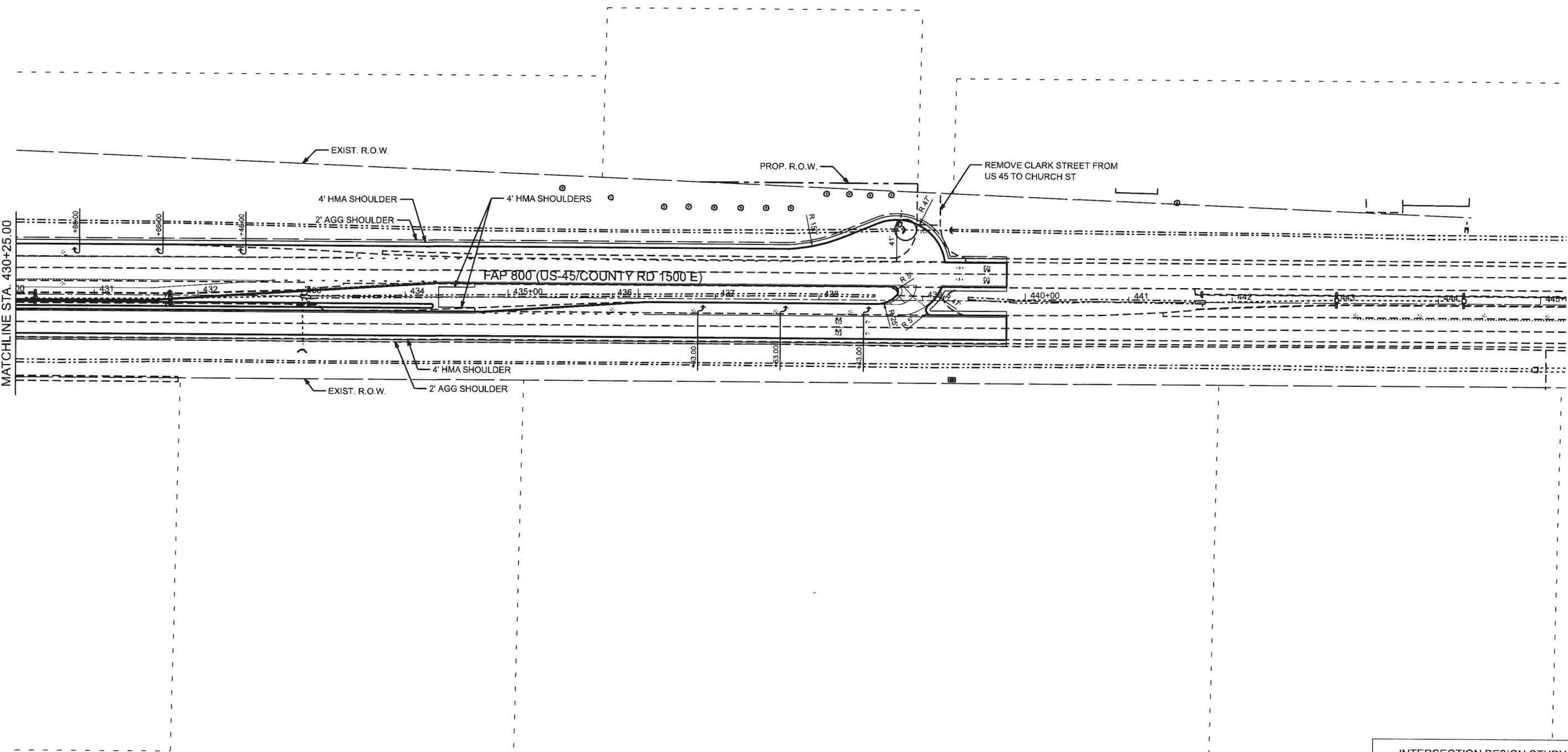
SCALE 1"=50' COUNTY CHAMPAIGN

SJN: P.95-007-27 PROJ. NO. D570G82

I.D.S. SHEET 3 OF 5



DRAFT PLANS NOT FOR CONSTRUCTION



NORTH BULB OUT - LEFT/ J-TURNS
VEHICLE: WB-55

INTERSECTION DESIGN STUDY

FAP ROUTE 800 (US 45)

FAS ROUTE 517 WITH (FLATVILLE AVE)(ROUTE 11)

SEC. NO. ((28X), (29X-1))N

SCALE 1"=50'

COUNTY CHAMPAIGN

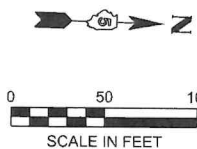
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PROJ. NO. D570G92

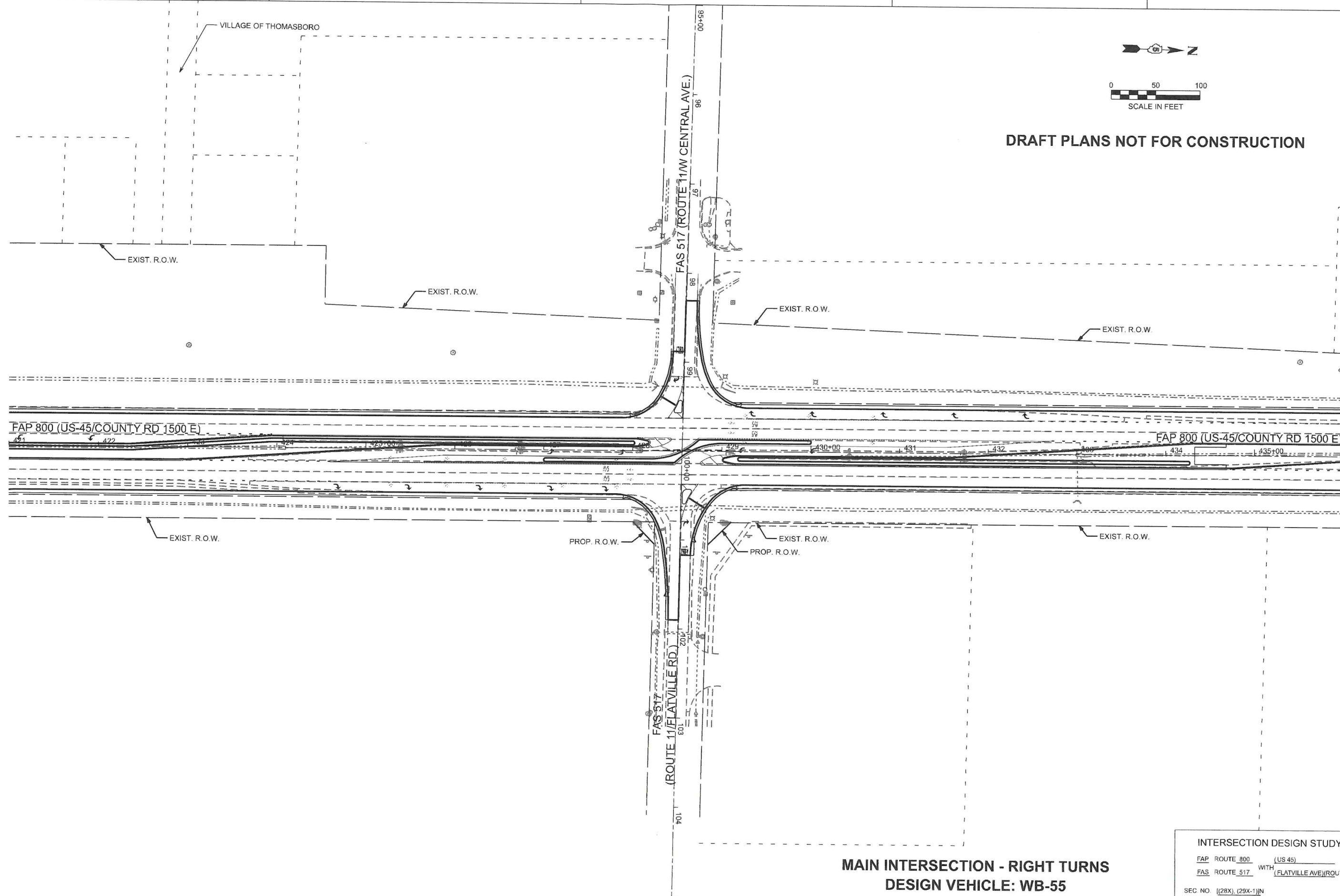
I.D.S. SHEET 4 OF 5

PLOT DATE = 1/21/2025
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PLOT SCALE = 1"=50'
USER NAME = anynola

PLOT DATE = 12/17/2025
FILE NAME = p:\p\06a-cw\henley.com\gas-pw\01\Documents\Project\166151\06a-cw\highway\0570G092\Shi-Plan-Planfile-3.dgn
PLOT SCALE = 1"=50'
USER NAME = anynola



DRAFT PLANS NOT FOR CONSTRUCTION



MAIN INTERSECTION - RIGHT TURNS
DESIGN VEHICLE: WB-55

INTERSECTION DESIGN STUDY

FAP ROUTE 800 (US 45)
FAS ROUTE 517 WITH (FLATVILLE AVE)(ROUTE 11)

SEC. NO. ((28X), (29X-1))N

SCALE 1"=50' COUNTY CHAMPAIGN

SJN: P-95-007-27 PROJ. NO. D570G092

I.D.S. SHEET 5 OF 5