ARKANSAS DEPARTMENT OF TRANSPORTATION

SCOTT E. BENNETT, P.E. - DIRECTOR

PRELIMINARY DESIGN SCHEMATIC

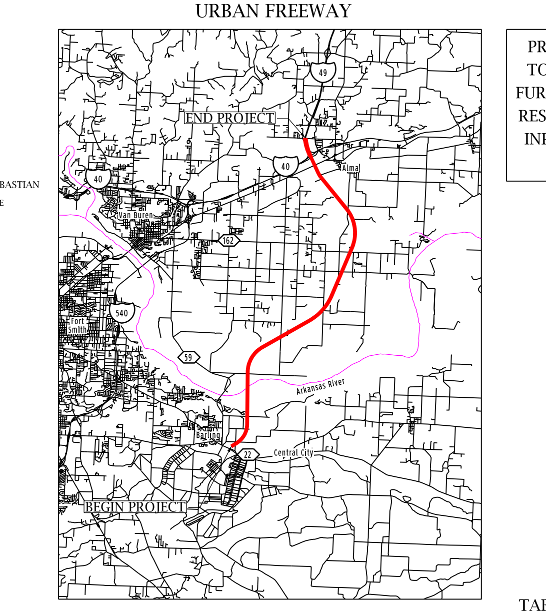
I-49 PROJECT
CRAWFORD AND SEBASTIAN COUNTIES

I-49
FROM HIGHWAY 22 TO INTERSTATE 40

PROJECT LENGTH - 14.3 MILES

ROADWAY TYPE	DESIGN SPEED
MAIN LANES	70 MPH
DIRECT CONNECTORS	40 MPH - 50 MPH
DIAGONAL/DIRECTIONAL RAMPS	40 MPH - 50 MPH
LOOP RAMPS	30 MPH - 35 MPH
CROSS STREETS	40 MPH

I-49 PROJECT
HIGHWAY CLASSIFICATION
URBAN FREEWAY



PRELIMINARY SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.

NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

DATE APPROVED

DATE SUBMITTED

DATE REVISED

0 100 200
HORIZONTAL
0 20 40
VERTICAL

DATE: APRIL 26, 2018
PREPARED BY HNTB
UNDER THE SUPERVISION OF:
RUSSELL K. OZMER, P.E.

LICENSE NO. 17220

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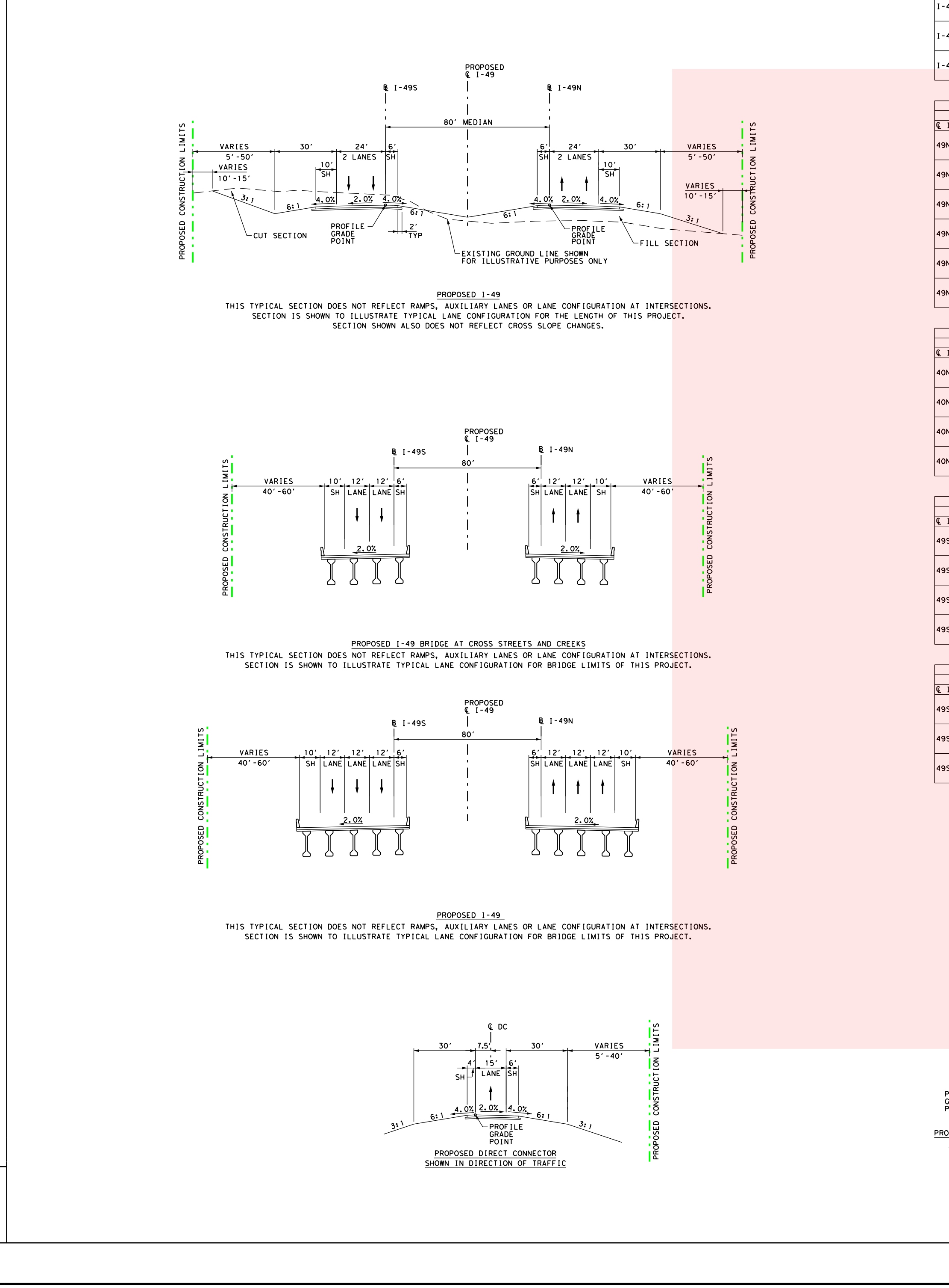
HNTB
HNTB Corporation
The HNTB Companies
Engineers Architects Planners

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION



CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-49 ML (DESIGN SPEED: 70 MPH)							
I-49 ML C-5	P.C. 763+54.50	421554.9751	647189.8502	N 38°45'12.44" W			
	P.I. 769+53.48	422022.0929	646814.9022	12°53'45.60" RT	1192.9116	598.9867	5300
	P.T. 775+47.41	422561.1101	646553.6639	N 25°51'26.84" W			
I-49 ML C-6	P.C. 807+07.97	425405.2427	645175.2363	N 25°51'26.84" W			
	P.I. 813+51.39	425984.2426	644894.6202	9°11'47.34" RT	1284.0715	643.4177	8000
	P.T. 819+92.04	426600.6484	644710.1472	N 16°39'39.49" W			
I-49 ML C-7	P.C. 841+98.21	428714.1996	644077.6204	N 16°39'39.49" W			
	P.I. 849+04.62	429390.9509	643875.0877	34°08'49.13" RT	1370.7477	706.4077	2300
	P.T. 855+68.96	430064.7157	644087.3441	N 17°29'09.64" E			

CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-49NB TO I-40WB DC (DESIGN SPEED: 40 MPH)							
49NB40WB C-1	P.C. 10+99.26	423537.2519	646156.6915	N 25°51'26.84" W			
	P.I. 13+08.55	423725.5855	646065.4144	5°50'39.56" RT	418.211	209.287	4100
	P.T. 15+17.47	423922.2345	645993.7889	N 20°00'47.27" W			
49NB40WB C-2	P.C. 25+62.29	424903.9604	645636.2151	N 20°00'47.27" W			
	P.I. 27+04.76	425037.8237	645587.4581	8°34'34.63" RT	284.4004	142.4663	1900
	P.T. 28+46.69	425177.4612	645559.2088	N 11°26'12.64" W			
49NB40WB C-3	P.C. 31+31.53	425456.6432	645502.729	N 11°26'12.64" W			
	P.I. 49+87.68	427275.9423	645134.6763	129°46'26.45" LT	1970.5359	1856.1552	870
	P.T. 51+02.06	425829.1497	643971.8765	S 38°47'20.91" W			
49NB40WB C-4	P.C. 61+95.85	424976.5882	643286.6654	S 38°47'20.91" W			
	P.I. 64+76.28	424758.0061	643110.989	25°17'20.78" RT	551.7227	280.4288	1250
	P.T. 67+47.58	424635.4185	642858.7736	S 64°04'41.70" W			
49NB40WB C-5	P.C. 70+58.90	424499.3262	642578.7732	S 64°04'41.70" W			
	P.I. 72+01.12	424437.1549	642450.8601	3°58'24.19" RT	284.3296	142.2218	4100
	P.R.C. 73+43.23	424383.9966	642318.9463	S 68°03'05.89" W			
49NB40WB C-6	P.R.C. 73+43.23	424383.9966	642318.9463	S 64°03'05.89" W			
	P.I. 77+83.95	424219.2661	641910.1638	6°48'45.38" LT	880.4129	440.7258	7404.5
	P.T. 82+23.64	424007.2079	6411523.8083	S 61°14'20.51" W			

CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-40NB TO I-40EB RAMP (DESIGN SPEED: 40 MPH)							
40NB40EB C-1	P.C. 8+60.17	424296.8819	645857.3312	N 20°00'47.27" W			
	P.I. 9+99.85	424428.1301	645809.5267	4°00'00.00" RT	279.2527	139.6831	4000
	P.T. 11+39.42	424562.3933	645770.994	N 16°00'47.27" W			
40NB40EB C-2	P.C. 16+13.27	425017.856	645640.2792	N 16°00'47.27" W			
	P.I. 20+60.83	425448.048	645516.817	49°05'29.68" RT	839.6735	447.5579	980
	P.T. 24+52.94	425823.0675	645761.0881	N 33°04'42.40" E			
40NB40EB C-3	P.C. 29+26.34	426219.737	646019.4612	N 33°04'42.40" E			
	P.I. 29+91.62	426274.4393	646055.0918	7°19'27.19" LT	130.3884	65.2831	1020
	P.T. 30+56.73	426333.2376	646083.4581	N 25°45'15.22" E			
40NB40EB C-4	P.C. 33+07.93	426559.4835	646192.6067	N 25°45'15.22" E			
	P.I. 34+14.02	426655.0381	646238.7055	4°03'02.79" LT	212.0981	106.0932	3000
	P.T. 35+20.02	426753.6104	646277.9391	N 21°42'12.43" E			

CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-49SB TO I-40WB RAMP (DESIGN SPEED: 40 MPH)							
49SB40WB C-1	P.C. 10+00.00	425496.986	643689.5183	N 38°47'20.91" E			
	P.I. 11+43.18	425608.5848	643779.2112	4°00'00.00" LT	286.234	143.1752	4100
	P.T. 12+86.23	425726.1685	643860.9009	N 34°47'20.91" E			
49SB40WB C-2	P.C. 20+19.27	426328.1773	644279.1388	N 34°47'20.91" E			
	P.I. 24+67.53	426696.3137	644534.8969	49°36'19.85" LT	839.8062	448.2596	970
	P.T. 28+59.07	427129.6688	644420.267	N 14°48'58.94" W			
49SB40WB C-3	P.C. 38+92.19	428128.4301	644156.0776	N 14°48'58.94" W			
	P.I. 39+75.87	428209.3373	644134.6762	1°09'19.45" RT	167.3741	83.6899	8300
	P.T. 40+59.56	428290.6597	644114.9107	N 13°39'39.49" W			
49SB40WB C-4	P.C. 41+90.92	428418.305	644083.8862	N 13°39'39.49" W			
	P.I. 43+50.23	428573.1026	644046.2623	2°11'56.83" LT	318.5694	159.3043	8300
	P.T. 45+09.49	428726.3424	644002.7262	N 15°51'36.32" W			

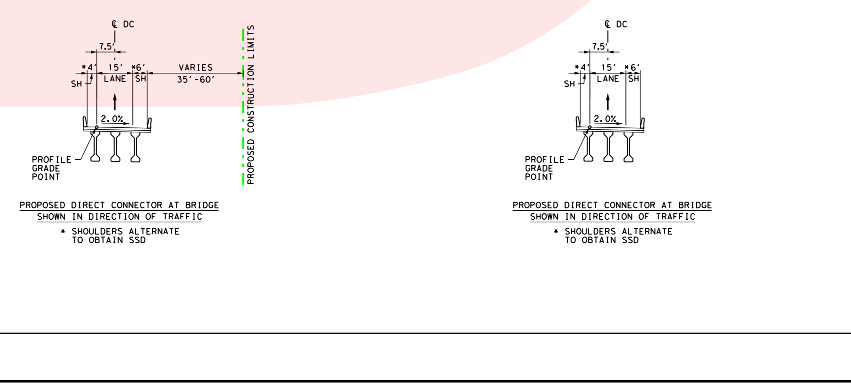
CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-49SB TO I-40EB RAMP (DESIGN SPEED: 40 MPH)							
49SB40EB C-1	P.C. 10+00.00	427880.2039	644221.7377	S 14°48'58.94" E			
	P.I. 11+95.56	427691.1497	644271.7457	4°00'00.00" LT	390.9538	195.5563	5600
	P.T. 13+90.95	427506.0445	644334.8197	S 18°48'58.94" E			
49SB40EB C-2	P.C. 15+22.49	427381.5403	644377.2441	S 18°48'58.94" E			
	P.I. 16+49.55	427261.273	644418.2248	3°33'00.07" RT	254.034	127.0576	4100
	P.T. 17+76.52	427138.699	644451.6799	S 15°15'58.87" E			
49SB40EB C-3	P.C. 21+59.58	426769.153	644552.543	S 15°15'58.87" E			
	P.I. 23+25.32	426609.2708	644596.1809	11°33'42.83" LT	330.3354	165.7305	1637
	P.T. 24+89.92	426461.379	644670.978	S 26°49'41.70" E			

CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-40WB TO I-49SB DC (DESIGN SPEED: 45 MPH)							
40WB49SB C-1	P.C. 10+00.00	423259.0788	646139.2677	N 25°51'26.84" W			
	P.I. 11+23.47	423370.1849	646085.4194	3°26'59.16" LT	246.8601	123.4674	4100
	P.T. 12+46.86	423477.8493	646024.9831	N 29°18'26.00" W			
40WB49SB C-2	P.C. 30+36.47	425038.4068	645148.9805	N 29°18'26.00" W			
	P.I. 42+86.60	426128.5232	644537.055	90°00'20.24" RT	1963.6181	1250.1227	1250
	P.T. 50+00.09	426740.3417	645627.2315	N 60°41'54.24" E			
40WB49SB C-3	P.C. 56+62.07	427064.3195	646204.5152	N 60°41'54.24" E			
	P.I. 58+54.99	427158.7357	646372.7519	3°14'09.19" LT	385.7369	192.9197	6830
	P.T. 60+47.81	427262.4978	646535.3909	N 57°27'45.06" E			

CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-40WB TO I-49NB RAMP (DESIGN SPEED: 40 MPH)							
40WB49NB C-1	P.C. 10+00.06	427262.4978	646535.3909	S 57°27'45.06" W			
	P.I. 11+92.98	427158.7357	646372.7519	3°14'09.19" RT	385.7369	192.9197	6830
	P.T. 13+85.80	427064.3195	646204.5152	S 60°41'54.24" W			
40WB49NB C-2	P.C. 17+02.83	426909.1633	645928.0483	S 60°41'54.24" W			
	P.I. 20+00.83	426863.3198	645668.1752	27°53'33.79" RT	584.1838	298.0006	1200
	P.C.C 22+87.01	426755.9928	645370.2647	S 88°35'28.03" W			
40WB49NB C-3	P.C.C. 22+87.01	426755.9928	645370.2647	S 88°35'28.03" W			
	P.I. 26+76.70	426746.4115	644980.6937	65°08'37.16" RT	693.5525	389.6888	610
	P.T. 29+80.56	427095.867	644808.2459	N 26°15'54.81" W			
40WB49NB C-4	P.C. 33+07.41	427388.9686	644663.6074	N 26°15'54.18" W			
	P.I. 34+93.90	427556.1994	644581.083	5°12'30.57" RT	372.7118	186.4843	4100
	P.T. 36+80.12	427730.2312	644514.0807	N 21°03'24.24" W			

CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-40EB TO I-49SB RAMP (DESIGN SPEED: 40 MPH)							
40EB49SB C-1	P.C. 11+04.07	424822.8061	643541.3158	N 63°19'38.29" E			
	P.I. 12+47.25	424887.0764	643669.2551	4°00'00.00" RT	286.234	143.1752	4100
	P.T. 13+90.30	424942.2657	643801.3659	N 67°19'38.29" E			
40EB49SB C-2	P.C. 17+13.84	425066.9763	644099.8957	N 67°19'38.29" E			
	P.I. 25+26.95	425380.404	644850.1729	79°21'55.72" RT	1357.4851	813.1131	980
	P.T. 30+71.32	424700.8544	645296.6762	S 33°18'26.00" E			
40EB49SB C-3	P.C. 32+78.47	424527.7302	645410.4288	S 33°18'26.00" E			
	P.I. 34+21.65	424408.0732	645489.0503	4°00'00.00" RT	286.234	143.1752	4100
	P.T. 35+64.71	424283.2234	645559.1334	S 29°18'26.00" E			

CURVE NO.	STATION	NORTHING	EASTING	BEARING / DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
℄ I-40EB TO I-49NB RAMP (DESIGN SPEED: 40 MPH)							
40EB49NB C-1	P.C. 22+09.32	428219.486	644312.8586	N 21°03'24.24" W			
	P.I. 24+05.34	428402.418	644242.4297	4°23'44.75" RT	391.8502	196.0212	5107.5
	P.T. 26+01.17	428590.2099	644186.2289	N 16°39'39.49" W			



LEGEND

- Main Lanes
- Direct Connector
- Cross-Streets
- Ramps (Diagonal/Directional/Loop)
- Concrete Bridge Structure
- Steel Bridge Structure
- Bridge Substructure
- Existing Storm Drain
- Proposed Storm Drain
- Bicycle / Pedestrian
- Driveway / Cul-De-Sac
- Potential Impacts
- Zone A / AE Floodplain
- Zone X Floodplain
- Zone AE Floodway
- Cemetery
- Existing STATE ROW
- Proposed Construction Limits
- Proposed Centerline / Baseline
- Proposed Retaining Wall
- Project By Others
- Drainage Easement
- Property Line
- Removal

NOTES:
1. PARCELS SHOWN ARE BASED ON GIS DATA AND HAVE NOT BEEN VERIFIED BY FIELD SURVEY.
2. DESIGN BASED ON LiDAR MAPPING 2017/2018.
3. DESIGN BASED ON AVAILABLE DRAINAGE CONSTRAINT INFORMATION. DETAILED DRAINAGE ANALYSIS TO BE PERFORMED IN SUBSEQUENT PROJECT DEVELOPMENT PHASES.
4. DRIVEWAY LOCATIONS ARE NOT SHOWN AND SUBJECT TO ACCESS MANAGEMENT POLICIES.
5. PROPOSED CONSTRUCTION LIMITS ARE PRELIMINARY AND SUBJECT TO CHANGE.
6. LANE CONFIGURATION LAYOUT AND RAMPING SCHEME IS PRELIMINARY AND SUBJECT TO CHANGE.

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