ARKANSAS DEPARTMENT OF TRANSPORTATION

SCOTT E. BENNETT, P.E. - DIRECTOR
PRELIMINARY DESIGN SCHEMATIC

I-49 PROJECT
CRAWFORD AND SEBASTIAN COUNTIES

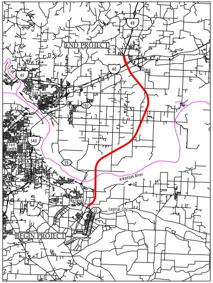
I-49
FROM HIGHWAY 22 TO INTERSTATE 40

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

CRAWFORD AND SEBASTIAN COUNTY
NOT TO SCALE


49
END PROJECT
40
40
Alma
Van Buren
162
540
Fort Smith
59
Arkansas River
Barling
22
Central City
BEGIN PROJECT

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.

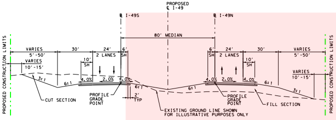
LICENSE NO. 17220

TABLE OF CONTENTS:

	ROLL
PLAN/PROFILE	1-8
PROFILES	9

SHEET 3 OF 9

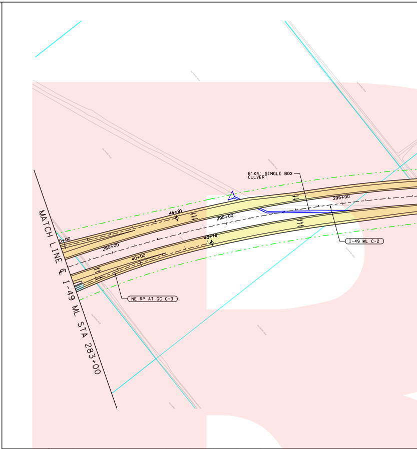
HNTB Corporation
The HNTB Companies
Engineers Architects Planners

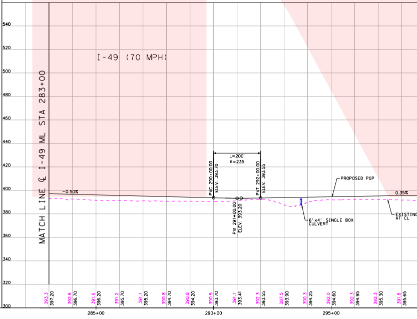

PROPOSED
℄ I-49
℄ I-49S
℄ I-49N
80' MEDIAN
PROPOSED CONSTRUCTION LIMITS
VARIES
5'-50'
30'
24'
2 LANES
6'
SH
10'
SH
VARIES
10'-15'
3:1
6:1
4.0%
2.0%
4.0%
6:1
2'
TYP
CUT SECTION
PROFILE
GRADE
POINT
6:1
4.0%
2.0%
4.0%
6'
SH
24'
2 LANES
10'
SH
30'
VARIES
5'-50'
VARIES
10'-15'
6:1
3:1
PROFILE
GRADE
POINT
FILL SECTION
EXISTING GROUND LINE SHOWN
FOR ILLUSTRATIVE PURPOSES ONLY
PROPOSED CONSTRUCTION LIMITS

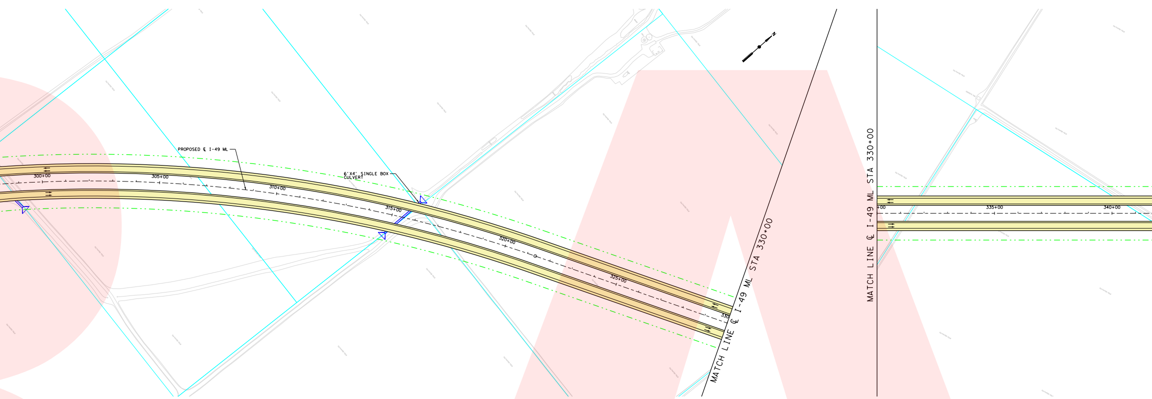
PROPOSED I-49

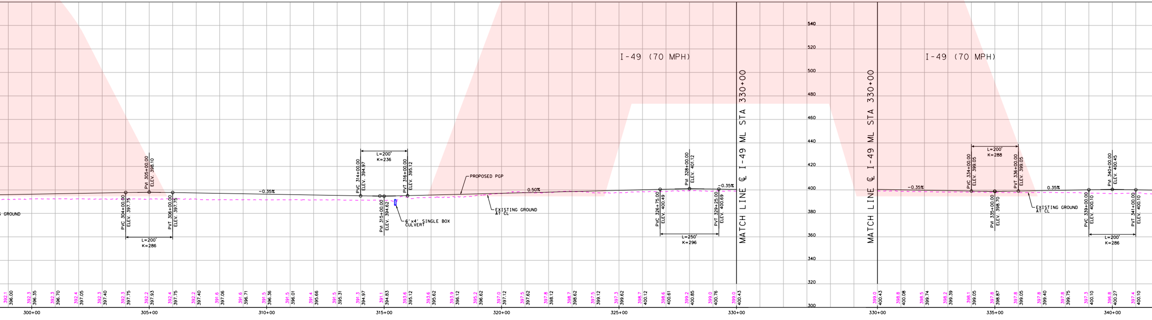
THIS TYPICAL SECTION DOES NOT REFLECT RAMPS, AUXILIARY LANES OR LANE CONFIGURATION AT INTERSECTIONS.
SECTION IS SHOWN TO ILLUSTRATE TYPICAL LANE CONFIGURATION FOR THE LENGTH OF THIS PROJECT.
SECTION SHOWN ALSO DOES NOT REFLECT CROSS SLOPE CHANGES.

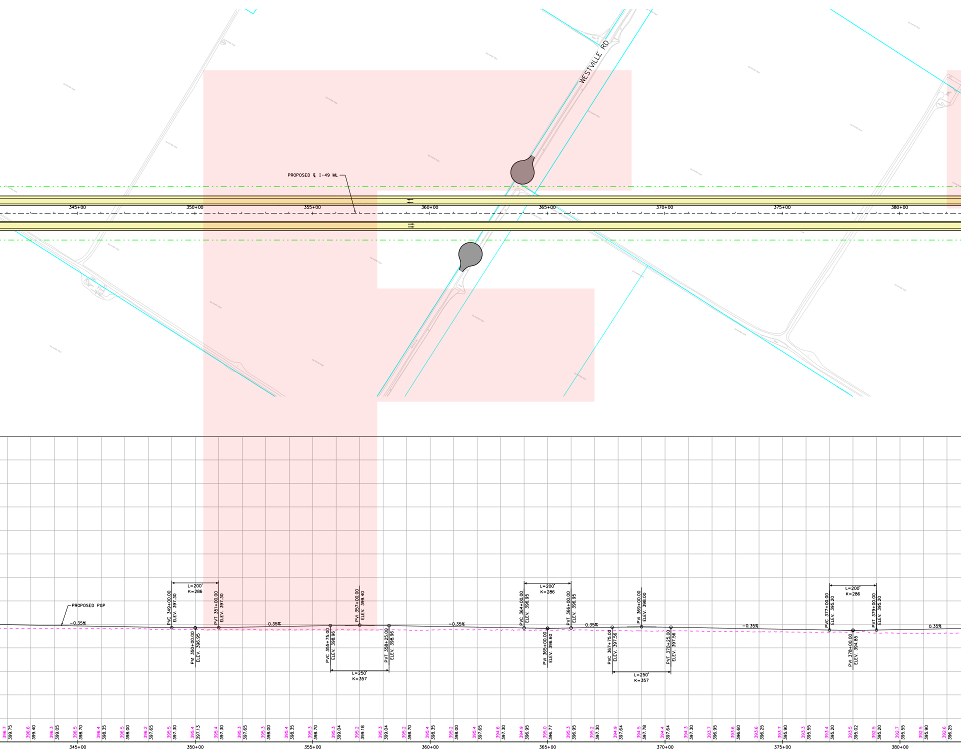
CURVE NO.	STATION	COORDINATE		BEARING / DELTA	LENGTH	TANGENT	RADIUS
		NORTHING	EASTING		(FT)	(FT)	(FT)
℄ I-49 ML (DESIGN SPEED: 70 MPH)							
I-49 ML C-2	P.C. 261+49.08	382982.1595	632372.6352	N 0°34'10.71" E			
	P.I. 294+47.85	386280.7691	632405.4314	59°54'03.87" RT	5985.3736	3298.7726	5725.05
	P.T. 321+34.45	387906.6297	635275.7063	N 60°28'14.57" E			

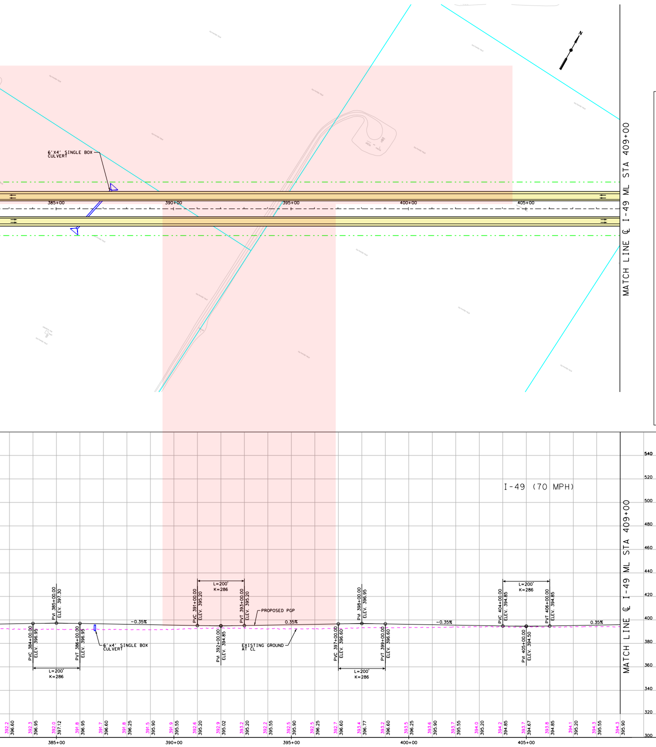

6'X4' SINGLE BOX CULVERT
44+91
290+00
295+00
0+00
285+00
43+16
40+00
I-49 ML C-2
NE RP AT GC C-3
MATCH LINE ℄ I-49 ML STA 283+00




PROPOSED ℄ I-49 ML
6'X4' SINGLE BOX CULVERT
300+00
305+00
310+00
315+00
320+00
325+00
330
MATCH LINE ℄ I-49 ML STA 330+00
MATCH LINE ℄ I-49 ML STA 330+00
335+00
340+00
N




WESTVILLE RD
PROPOSED ℄ I-49 ML
345+00
350+00
355+00
360+00
365+00
370+00
375+00
380+00
PROPOSED PGP
-0.35%
PVC 349+00.00 ELEV. 397.30
L=200' K=286
PVT 351+00.00 ELEV. 397.30
PVI 350+00.00 ELEV. 396.95
0.35%
PVC 355+75.00 ELEV. 398.96
PVI 357+00.00 ELEV. 399.40
PVT 358+25.00 ELEV. 398.96
L=250' K=357
-0.35%
PVC 364+00.00 ELEV. 396.95
L=200' K=286
PVT 366+00.00 ELEV. 396.95
PVI 365+00.00 ELEV. 396.60
0.35%
PVC 367+75.00 ELEV. 397.56
PVI 369+00.00 ELEV. 398.00
PVT 370+25.00 ELEV. 397.56
L=250' K=357
-0.35%
PVC 377+00.00 ELEV. 395.20
L=200' K=286
PVT 379+00.00 ELEV. 395.20
PVI 378+00.00 ELEV. 394.85
0.35%
396.7 399.75
396.6 399.40
396.3 399.05
396.5 398.70
396.4 398.35
396.5 398.00
396.2 397.65
395.5 397.30
395.4 397.13
395.4 397.30
395.3 397.65
395.3 398.00
395.4 398.35
395.3 398.70
395.3 399.04
395.2 399.18
395.3 399.04
395.2 398.70
395.4 398.35
395.2 398.00
395.4 397.65
394.6 397.30
394.9 396.95
395.0 396.77
395.3 396.95
395.2 397.30
394.9 397.64
394.5 397.78
394.4 397.64
394.3 397.30
393.7 396.95
393.6 396.60
393.6 396.25
393.7 395.90
393.3 395.55
393.4 395.20
393.5 395.02
392.5 395.20
392.7 395.55
392.5 395.90
392.6 396.25
345+00
350+00
355+00
360+00
365+00
370+00
375+00
380+00


6'X4' SINGLE BOX CULVERT
385+00
390+00
395+00
400+00
405+00
MATCH LINE ℄ I-49 ML STA 409+00
I-49 (70 MPH)
PVC 384+00.00 ELEV. 396.95
PVI 385+00.00 ELEV. 397.30
PVT 386+00.00 ELEV. 396.95
L=200' K=286
6'x4' SINGLE BOX CULVERT
-0.35%
PVC 391+00.00 ELEV. 395.20
PVI 392+00.00 ELEV. 394.85
PVT 393+00.00 ELEV. 395.20
L=200' K=286
PROPOSED PGP
EXISTING GROUND AT CL
0.35%
PVC 397+00.00 ELEV. 396.60
PVI 398+00.00 ELEV. 396.95
PVT 399+00.00 ELEV. 396.60
L=200' K=286
-0.35%
PVC 404+00.00 ELEV. 394.85
PVI 405+00.00 ELEV. 394.50
PVT 406+00.00 ELEV. 394.85
L=200' K=286
0.35%
MATCH LINE ℄ I-49 ML STA 409+00
540
520
500
480
460
440
420
400
380
360
340
320
300

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.

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

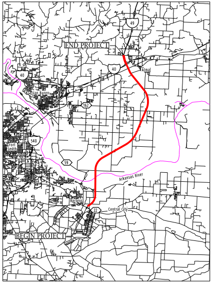
ROADWAY TYPE	DESIGN SPEED
MAIN LANES	70 MPH
DIRECT CONNECTORS	40 MPH - 50 MPH
DIAGONAL/DIRECTIONAL RAMPS	40 MPH - 50 MPH
LOOP RAMPS	30 MPH - 35 MPH
CROSS STREETS	40 MPH

I-49 PROJECT
HIGHWAY CLASSIFICATION

URBAN FREEWAY

N

CRAWFORD AND SEBASTIAN COUNTY
NOT TO SCALE


END PROJECT
BEGIN PROJECT
49
40
540
162
59
22
Van Buren
Fort Smith
Arkansas River
Barling
Central City
Alma

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

TABLE OF CONTENTS:

	ROLL
PLAN/PROFILE	1-8
PROFILES	9

SHEET 3 OF 9

HNTB Corporation
The HNTB Companies
Engineers Architects Planners