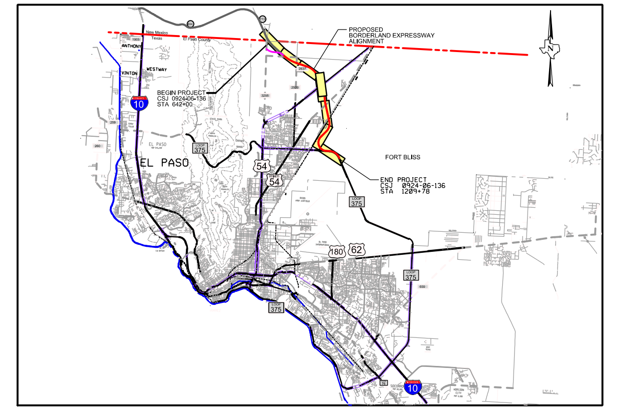
TEXAS DEPARTMENT OF TRANSPORTATION
EL PASO DISTRICT
TOMAS TREVINO, P.E. DISTRICT ENGINEER

New Mexico DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TRENT DOOLITTLE, P.E. DISTRICT ONE ENGINEER

DESIGN SCHEMATIC FOR THE BORDERLAND EXPRESSWAY
EL PASO, TEXAS

ROLL 4 OF 11

	DIST.	CNTY.	CONTROL	SECT.	JOB	DESCRIPTION
JANUARY 18, 2022	ELP	EL PASO	0924	06	136	OVERALL PROJECT: BUILD 4 LANES & OVERPASSES FROM FM 3255 (MLK) TO SL 375
			0665	02	002	PH 1 FRONTAGE ROADS FROM BU54 (DYER) TO RAILROAD DR.
			0665	02	004	PH 2 MAINLANES FROM FM 3255 TO RAILROAD DR.
			0665	02	005	PH 3 MAINLANES FROM RAILROAD DR. TO SL 375



VICINITY MAP
NTS

SURVEY CONTROL POINTS

POINT NAME	NORTHING	EASTING	ELEVATION	STATION AND OFFSET (FEET)
H-36	10705112.588	425575.193	3952.862	OUTSIDE PROJECT LIMITS
H-37	10715903.952	405537.696	4027.436	OUTSIDE PROJECT LIMITS
H-39	10729334.124	395060.836	4398.537	OUTSIDE PROJECT LIMITS
H-45	10748739.224	418784.588	4037.561	OUTSIDE PROJECT LIMITS
H-46	10736552.350	436702.302	4003.651	OUTSIDE PROJECT LIMITS

LEGEND

EXISTING / PROPOSED

MAIN LANE
RAMP
FRONTAGE ROAD

SCALE

PLAN: SCALE (IN FEET) 0 50 100 200

PROFILE: HORIZ SCALE (IN FEET) 0 50 100 200

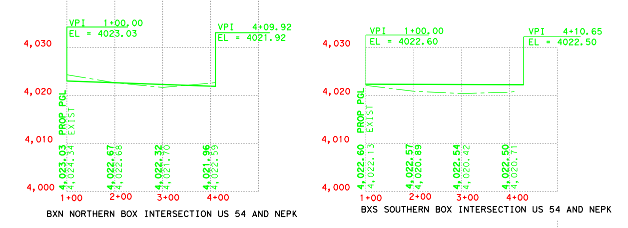
VERT SCALE (IN FEET)

BORDERLAND EXPWY, DESIGN SPEED 70 MPH											
CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT	CURVE LENGTH	RADIUS	P.C. STATION	P.T. STATION	BEARING (BACK)	BEARING (AHEAD)
NEPK-12	911+99.57	10,728,704.16	423,261.60	20° 21′ 27.41" RT	1,077.28′	2,131.84′	6,000.00′	901+22.29	922+54.13	S 24° 42′ 49.93" E	S 4° 21′ 22.52" E

US 54 / BORDERLAND EXPWY RAMPS, DESIGN SPEED 40 MPH											
CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT	CURVE LENGTH	RADIUS	P.C. STATION	P.T. STATION	BEARING (BACK)	BEARING (AHEAD)
BORDERLAND EXPWY SB EXIT TO US 54, DESIGN SPEED 40 MPH											
NPS54-1	11+04.81	10,732,264.54	421,554.71	5° 59′ 59.33" RT	104.81′	209.43′	2,000.00′	10+00.00	12+09.43	S 24° 42′ 49.10" E	S 18° 42′ 49.77" E
NPS54-2	21+17.78	10,731,304.95	421,879.77	5° 59′ 59.91" LT	157.22′	314.16′	3,000.00′	19+60.55	22+74.71	S 18° 42′ 49.77" E	S 24° 42′ 49.68" E
US 54 NB ENTRANCE TO BORDERLAND EXPWY, DESIGN SPEED 40 MPH											
54NNP-1	11+41.07	10,732,166.79	421,751.81	5° 08′ 22.19" LT	128.58′	256.99′	2,865.00′	10+12.49	12+69.48	S 24° 58′ 09.62" E	S 30° 06′ 31.81" E
54NNP-2	21+18.54	10,731,321.06	422,242.24	5° 23′ 43.14" RT	188.47′	376.66′	4,000.00′	19+30.07	23+06.73	S 30° 06′ 31.81" E	S 24° 42′ 48.67" E
US 54 SB ENTRANCE TO BORDERLAND EXPWY, DESIGN SPEED 40 MPH											
54SNP-1	29+15.70	10,728,624.14	423,108.77	13° 11′ 54.14" RT	487.23′	970.14′	4,211.49′	24+28.47	33+98.61	S 24° 11′ 51.66" E	S 10° 59′ 57.52" E
BORDERLAND EXPWY NB EXIT TO US 54, DESIGN SPEED 40 MPH											
NPN54-1	14+19.28	10,730,202.74	422,756.93	0° 47′ 53.52" RT	69.66′	139.31′	10,000.00′	13+49.62	14+88.93	S 24° 42′ 49.75" E	S 23° 54′ 56.23" E
NPN54-2	25+33.58	10,729,184.10	423,208.66	16° 45′ 56.52" RT	295.75′	587.28′	2,007.00′	22+37.82	28+25.11	S 23° 54′ 56.23" E	S 7° 08′ 59.71" E
NPN54-3	32+76.52	10,728,442.74	423,301.66	3° 58′ 05.82" LT	99.25′	198.43′	2,865.00′	31+77.27	33+75.70	S 7° 08′ 59.71" E	S 11° 07′ 05.53" E

RAMP SUPERELEVATION TABLE								
CURVE NUMBER	BEGIN TRANSITION STA	BEGIN TRANSITION E	BEGIN FULL SUPER STA	BEGIN FULL SUPER E	BEGIN TRANSITION STA	BEGIN TRANSITION E	END TRANSITION STA	END TRANSITION E
NPS54-2	17+40	2.0%	20+15	-2.4%	22+20	-2.4%	24+95	2.0%
54SNP-1	24+05	2.0%	24+35	3.2% MAINTAIN FULL SUPER TO MATCH MAINLANES				
NPN54-2	21+35	2.0%	22+65	-3.2% MAINTAIN FULL SUPER TO MATCH MAINLANES				

BORDERLAND EXPWY SUPERELEVATION TABLE								
CURVE NUMBER	BEGIN TRANSITION STA	BEGIN TRANSITION E	BEGIN FULL SUPER STA	BEGIN FULL SUPER E	BEGIN TRANSITION STA	BEGIN TRANSITION E	END TRANSITION STA	END TRANSITION E
NEPK-12 (WB)	899+35	-2.0%	901+70	3.2%	922+05	3.2%	924+45	-2.0%
NEPK-12 (EB)	900+75	-2.0%	901+35	-3.2%	922+40	-3.2%	923+00	-2.0%



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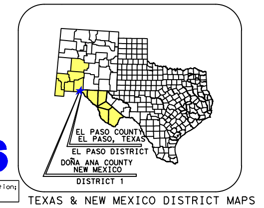
DOUGLAS CRAIG BOWEN
87638
TEXAS REGISTRATION NUMBER
JANUARY 2022
DATE

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.	
			4	
STATE	DIST.	COUNTY	DRAWN BY:	CHECK BY:
TEXAS	ELP	EL PASO	JCO	SFI
CONT.	SECT.	JOB	HIGHWAY NO.	
0924	06	136	BORDERLAND EXPWY.	

FINAL SUBMITTAL
JACOBS



TEXAS & NEW MEXICO DISTRICT MAPS

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