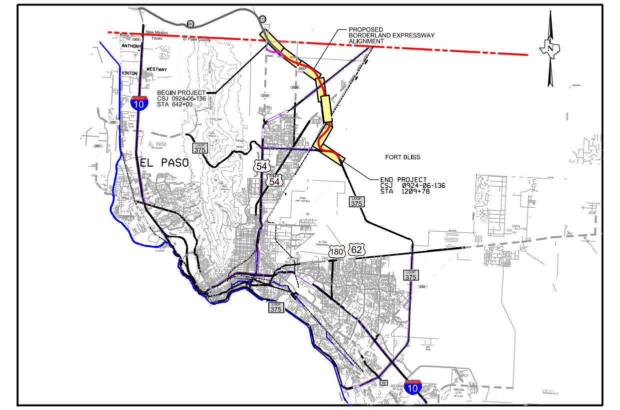
TEXAS DEPARTMENT OF TRANSPORTATION
EL PASO DISTRICT
TOMAS TREVINO, P.E. DISTRICT ENGINEER

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

DESIGN SCHEMATIC FOR THE BORDERLAND EXPRESSWAY
EL PASO, TEXAS

ROLL 5 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
BRIDGES
PAVED BIKE PATH
A.D.A. RAMP

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

MAIN LANES:
FRONTAGE ROADS:
ON/OFF RAMPS:
DIRECT CONNECT RAMPS:
CROSS STREETS:

FUNCTIONAL CLASSIFICATION
RURAL FREEWAY

PROJECT LENGTH
10.75 MILES

GENERAL NOTES

1.) COORDINATES SHOWN ARE SURFACE COORDINATES BASED ON THE TEXAS STATE PLANE SURFACE COORDINATE SYSTEM OF 1983 (NAD 83 STATE PLANE COORDINATES) CENTRAL ZONE (4203). THESE HAVE AN ADJUSTMENT FACTOR OF 1.00023100 (GRID X 1.00023100 = SURFACE COORDINATES) AND ARE BASED UPON AERIAL PANELL POINTS H-36, H-37, H-39, H-45, H-46 PROVIDED BY TxDOT.

2.) BEARINGS SHOWN ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983 (CENTRAL ZONE (4203) USING HORIZONTAL CONTROL POINTS H-36, H-37, H-39, H-45, H-46 PROVIDED BY TxDOT.

3.) ELEVATIONS ARE NAVD-88 DATUM BASED ON THE FOLLOWING BENCHMARKS H-36 ELEV 3952.862 (FEET), H-37 ELEV 4027.436 (FEET), H-39 ELEV 4398.537 (FEET), H-45 ELEV 4037.561 (FEET), H-46 ELEV 4003.651 (FEET) FROM TxDOT AERIAL PANEL POINTS H-36, H-37,H-39, H-45, H-46.

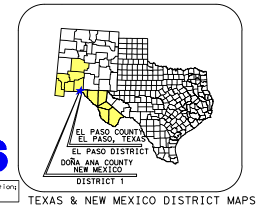
4.) TEMPORARY CONSTRUCTION EASEMENTS WILL BE NECESSARY FOR SLOPE TREATMENT BEYOND LIMITS OF ROW.

5.) ALL PROPERTY LINES SHOWN ON THIS SCHEMATIC ARE APPARENT LINES ONLY AND ARE NOT BASED ON A DETAILED ON GROUND PROPERTY SURVEY.

NOT A BIDDING DOCUMENT
DOUGLAS CRAIG BOWEN
87638
TEXAS REGISTRATION NUMBER
JANUARY 2022
DATE

FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		ROLL NO.	
			5	
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

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-13	949+72.65	10,724,919.32	423,549.92	8° 09' 16.19" LT	891.02'	1,779.04'	12,500.00'	940+81.63	958+60.67	S 4° 21' 22.52" E	S 12° 30' 38.71" E
NEPK-14	1040+74.19	10,716,030.96	425,522.17	57° 54' 15.76" RT	2,113.30'	3,860.58'	3,820.00'	1019+60.89	1058+21.47	S 12° 30' 38.71" E	S 45° 23' 37.05" W

DYER ST. / BORDERLAND EXPWY RAMPS, DESIGN SPEED 40 MPH

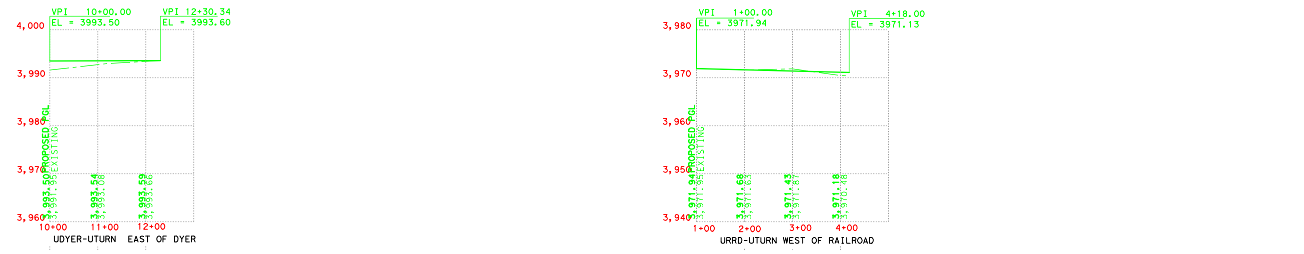
CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	DELTA	TANGENT	CURVE LENGTH	RADIUS	P.C. STATION	P.T. STATION	BEARING (BACK)	BEARING (AHEAD)
BORDERLAND EXPWY NB EXIT [illegible]											
NPNDY-1	22+41.98	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 12° 30' 38.07" E
BORDERLAND EXPWY SB EXIT [illegible]											
NPSDY-1	10+61.98	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 3° 56' 42.73" E
NPSDY-2	18+65.82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 12° 30' 40.03" E
DYER EXIT TO EB BORDERLAN[illegible]											
DYSNP-1	22+95.30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 12° 46' 04.56" E
DYER EXIT TO WB BORDERLAN[illegible]											
DYNNP-1	10+99.48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 13° 37' 32.09" E
DYNNP-2	15+57.97	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 16° 38' 30.85" E
DYNNP-3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 12° 30' 37.70" E
[illegible]											
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	N 46° 19' 36.57" E
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	S 50° 22' 26.09" E

FRONTAGE ROADS BETWEEN DYER ST. & RAILROAD DRIVE
DESIGN SPEED 40 MPH

CURVE NAME	P.I. STATION	P.I. NORTHING	P.I. EASTING	BEARING
BORDERLAND EXPWY NORTHBOUND FRONTAGE ROAD, DESIGN SPEED 40 MPH				
	1961+17.09	10,723,831.83	423,945.90	S 12° 30' 38.64" E
	2004+89.42	10,719,563.32	424,893.04	
BORDERLAND EXPWY SOUTHBOUND FRONTAGE ROAD, DESIGN SPEED 40 MPH				
	2962+97.62	10,723,590.32	423,690.14	S 12° 30' 38.69" E
	3007+66.96	10,719,227.11	424,658.30	

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-14 (WB)	-2.0%	1017+30	1020+20	4.4%	1057+60	4.4%	1060+55	-2.0%
NEPK-14 (EB)	-2.0%	1018+70	1019+85	-4.4%	1058+00	-4.4%	1059+10	-2.0%



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