TEXAS DEPARTMENT OF TRANSPORTATION®
DALLAS DISTRICT
CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

DESIGN SCHEMATIC
SH 114
FROM EAST OF INTERNATIONAL PKWY TO RIVERSIDE DR, DALLAS COUNTY, TEXAS

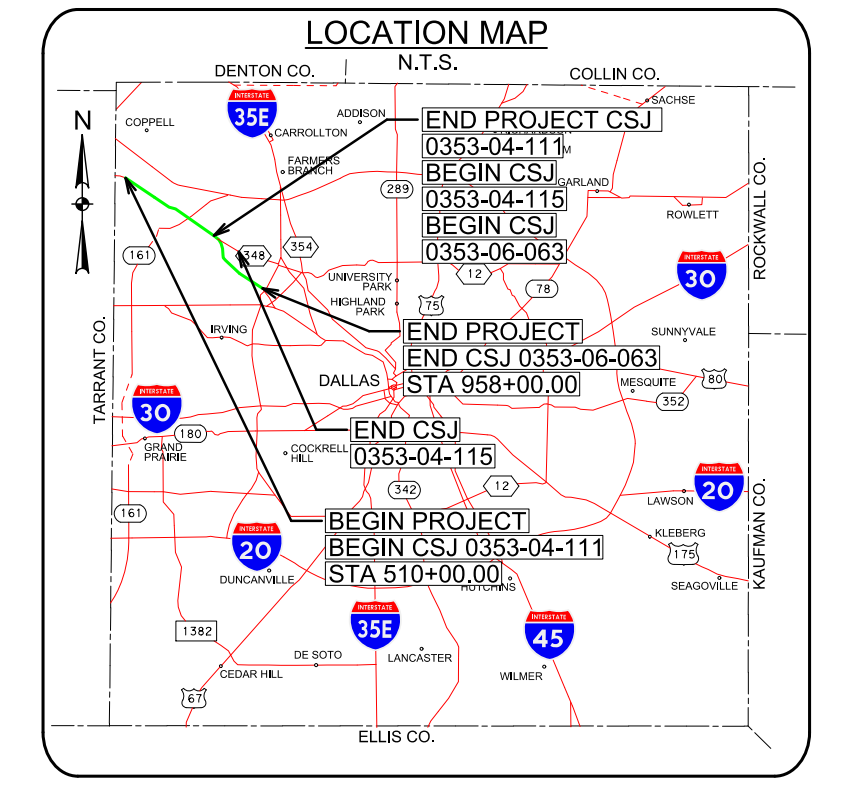
CSJ: 0353-04-111 0353-04-112
0353-04-115
0353-06-063 0353-06-067

100%
Preliminary, Subject to Change

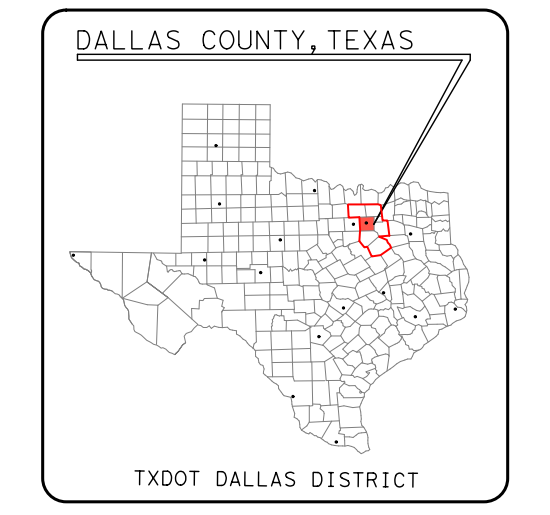
JUNE 2024
ROLL 1 OF 13

LENGTH: 8.5 MILES		
DESIGN SPEEDS		FUNCTIONAL CLASS
MAIN LANES:	70 MPH	URBAN INTERSTATE
EXPRESS LANES:	70 MPH	URBAN INTERSTATE
SPUR 348:	60 MPH	PRINCIPAL ARTERIAL
SPUR 348 FRONTAGE ROAD:	35 MPH	URBAN COLLECTOR
PGBT:	60 MPH	PRINCIPAL ARTERIAL-OTHER FREEWAYS AND EXPRESSWAYS
PGBT FRONTAGE ROADS:	40 MPH	
PGBT SERVICE RAMPS:	45 MPH	
FRONTAGE ROAD BYPASS:	45 MPH	
* WALNUT HILL FRONTAGE ROAD BYPASS:	35 MPH	
DIRECT CONNECTORS/RAMPS:	50 MPH	
* SB RAMPS TO PGBT & NB RAMP FROM PGBT:	30 MPH	
* PGBT DC WB-NB & DC WB-SB:	35 MPH	
* PGBT DC NB-EB:	35 MPH	
* PGBT DC EB-SB:	30 MPH	
* PGBT DC SB-WB & DC EB-NB:	40 MPH	
* PGBT DC SB-EB:	35 MPH	
* PGBT DC NB-WB:	35 MPH	
FRONTAGE ROADS:	45 MPH	URBAN COLLECTOR
FREEPORT PKWY	35 MPH	
ESTERS BLVD	35 MPH	
BELT LINE ROAD	45 MPH	
MACARTHUR	40 MPH	
WALNUT HILL	40 MPH	
COLWELL	40 MPH	
HIDDEN RIDGE	35 MPH	
O'CONNOR	35 MPH	
WINGREN	35 MPH	
RIVERSIDE DRIVE/ROCHELLE BLVD	35 MPH	
TURNAROUNDS:	15 MPH	URBAN ARTERIAL / COLLECTOR
SHARED USE PATHS:	18 MPH	

* Denotes exceptions to usual speed


DENTON CO.
COLLIN CO.
END PROJECT CSJ
0353-04-111
BEGIN CSJ
0353-04-115
BEGIN CSJ
0353-06-063
END PROJECT
END CSJ 0353-06-063
STA 958+00.00
END CSJ
0353-04-115
BEGIN PROJECT
BEGIN CSJ 0353-04-111
STA 510+00.00
TARRANT CO.
ROCKWALL CO.
KAUFMAN CO.
ELLIS CO.
DALLAS

LOCATION MAP
N.T.S.


DALLAS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

0 10 20 30 40
VERTICAL SCALE:

0 100 200 300 400
HORIZONTAL SCALE:

PRELIMINARY

FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

PHILLIP HANLEY 91815 6/17/2024
NAME P.E. NO. DATE
PHILLIP ULLMAN 71426 6/17/2024
NAME P.E. NO. DATE
LINA T. RAMEY & ASSOCIATES, INC.
TBPE FIRM #F-782

LTRA
3320 BELT LINE ROAD
FARMERS BRANCH, TX 75234
214-979-1144 MAIN
214-979-2480 FAX

DATE SUBMITTED:
DATE APPROVED:

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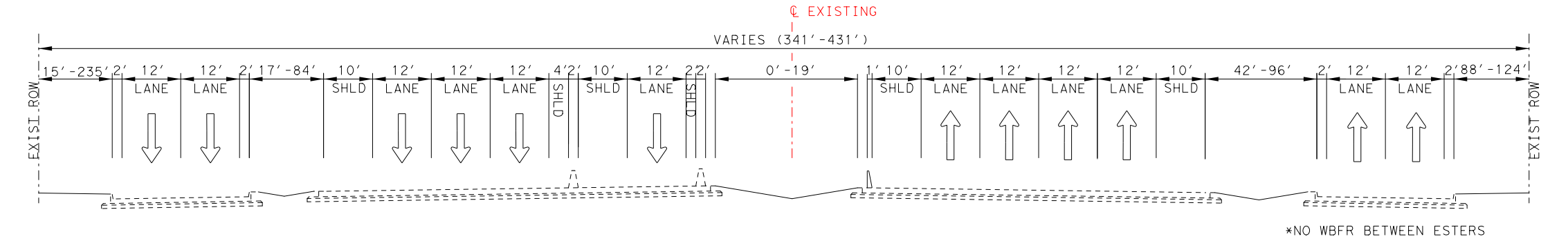
LEGEND:

- EXISTING ROW
- EXISTING EASEMENT
- EXISTING PROPERTY LIMITS
- EXISTING CULVERT
- EXISTING STORM SEWER
- FEMA 100 YR FLOODPLAIN LIMITS
- EXISTING TELE / CABLE / FIBER
- EXISTING WATER LINE
- EXISTING ELECTRIC LINE
- EXISTING SANITARY SEWER LINE
- EXISTING GAS / PETROLEUM LINE
- PROPOSED CENTERLINE/BASELINE
- PROPOSED ROW
- PROPOSED ACCESS DENIAL
- PROPOSED DRAINAGE EASEMENT
- PROPOSED EDGE OF PAVEMENT
- PROPOSED TRAFFIC BARRIER
- PROPOSED BRIDGE ABUTMENT
- PROPOSED BRIDGE BENT
- PROPOSED RETAINING WALL
- PROPOSED SIDEWALK WALL
- PROPOSED CULVERT
- PROPOSED NOISE WALL
- → DIRECTION OF TRAVEL
- EXISTING PAVEMENT TO REMAIN
- PROPOSED BRIDGE
- PROPOSED MAIN LANES
- PROPOSED EXPRESS LANE TIE-IN
- PROPOSED RAMP
- PROPOSED FRONTAGE ROAD/BYPASSES
- PROPOSED CROSS STREET
- PROPOSED CROSS STREET TRANSITION
- PROPOSED DRIVEWAY
- PROPOSED SIDEWALK
- PROPOSED PROJECT BY OTHERS
- PERPENDICULAR CURB RAMP
- PARALLEL CURB RAMP
- DIRECTIONAL CURB RAMP
- POTENTIAL DISPLACEMENTS
- PAVEMENT / BRIDGE TO BE REMOVED
- 2000 PARCEL ID
- 100 CURVE ID
- SIGNAL

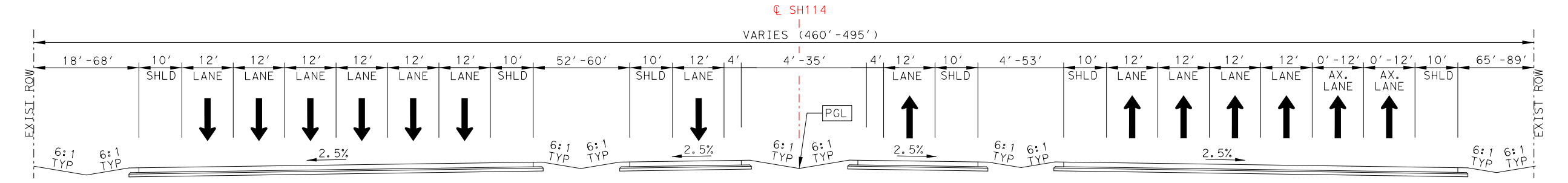
GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS AND RECORD PLANS PROVIDED BY TXDOT IN 2022 UNDER MULTIPLE SEPARATE CONTRACTS.
2. TRAFFIC VOLUMES WERE TRANSMITTED BY TP&P ON JUNE 29, 2022.
3. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF THE SHARED USE LANES WILL BE DETERMINED DURING THE PS&E DESIGN THROUGH COORDINATION BETWEEN TXDOT AND LOCAL GOVERNMENTS.
4. EXISTING DRIVEWAY LOCATIONS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN AND COORDINATION WITH THE CITIES; THE DRIVEWAY WILL BE A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS AS SHOWN.
5. ACCESS DENIAL LIMITS ARE DETERMINED BY PROVIDING SAFETY TO THE TRAVELING PUBLIC, MAINTAINING LEVEL OF SERVICE ON THE FRONTAGE ROADS AND MAINTAINING SAFE ACCESS TO ADJACENT PROPERTY OWNERS.
6. UNLESS OTHERWISE NOTED EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
7. SUPER ELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
8. CURBS ON FRONTAGE ROADS AND CROSS STREETS ARE TYPE II UNLESS NOTED OTHERWISE.
9. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.
10. PROPOSED CROSS STREET SECTIONS ARE BASED ON CITY THOROUGHFARE PLANS.
11. TYPICAL CROSS STREET TURNOUT RADIUS EQUALS 90' TYPICAL, 30' MIN. UNLESS NOTED OTHERWISE.
12. RAMP HORIZONTAL CURVATURE BETWEEN PHYSICAL GORES IS SHOWN IN TABLE. TYPICAL FRONTAGE ROAD GORES UTILIZE A MINIMUM 1050' RADIUS. TYPICAL MAINLANE GORES UTILIZE A MINIMUM RADIUS OF 5700'. VARIATIONS FROM TYPICAL RADII ARE NECESSARY IN LOCATIONS WITH OPERATIONAL WEAVING CONSTRAINTS OR WHEN THE RAMP GORE IS LOCATED WITHIN A HORIZONTAL CURVE ON THE CONTROLLING ROADWAY.
13. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS 48439C0120K (2009), 48113C0145K(2014), 48113C0165K (2014) AND 48113C0170K (2014).
14. PROPOSED CULVERT SIZES SHOWN IN THE SCHEMATIC ARE SIZED BASED ON PRELIMINARY DRAINAGE ANALYSIS OF UPSTREAM DRAINAGE AREAS. A DETAILED DRAINAGE STUDY WILL BE PERFORMED PRIOR TO CONSTRUCTION TO FINALIZE THE PROPOSED CULVERT SIZES AND DESIGN. COORDINATION BETWEEN TXDOT, LOCAL GOVERNMENTS, AND ADJACENT PROPERTY OWNERS WILL BE PERFORMED DURING THIS DETAILED DESIGN PHASE.
15. RAILROAD ALIGNMENTS AND PROFILES ARE SHOWN FOR REFERENCE ONLY IN DEVELOPING ROADWAY PROFILES. FINAL ALIGNMENTS AND PROFILES WILL BE DEVELOPED THROUGH COORDINATION WITH THE DART, TXDOT AND THE CITY OF IRVING.
16. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DALLAS COUNTY APPRAISAL DISTRICT (LATEST DATA AVAILABLE AS OF MARCH 2020).
17. CONVENTIONAL ROADWAY SIGNAGES (SMALL SIGNS) ARE NOT SHOW AND WILL BE DEVELOPED DURING PS&E PHASE OF THE PROJECT.
18. BARRIERS AND RAILS ARE SINGLE SLOPE CONCRETE TYPE SSCB AND T80SS UNLESS NOTED OTHERWISE.

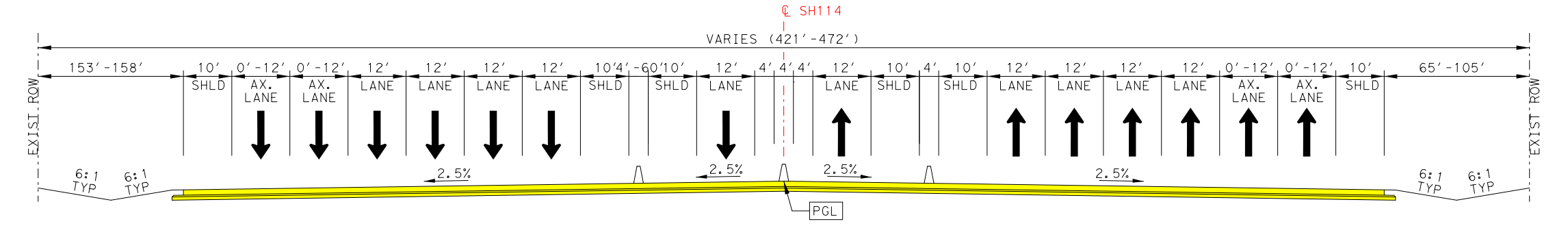

℄ EXISTING
VARIES (341'-431')
EXIST ROW
SHLD
LANE

*NO WBFR BETWEEN ESTERS AND BELT LINE RD

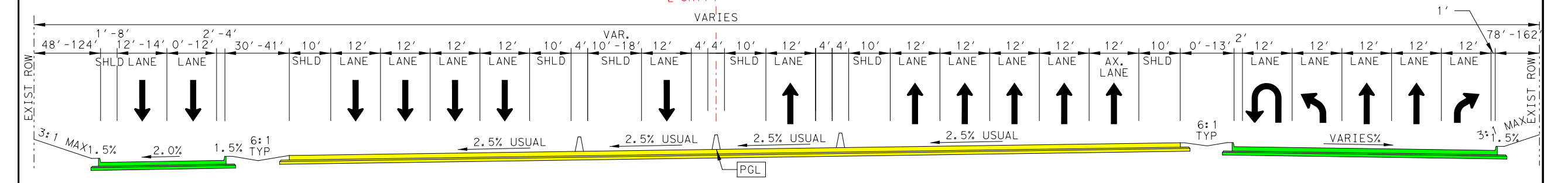
SH-114 EXISTING TYPICAL SECTION
FROM FREEPORT PKWY TO BELT LINE RD


℄ SH114
VARIES (460'-495')
EXIST ROW
PGL
SHLD
LANE
AX. LANE
6:1 TYP
2.5%

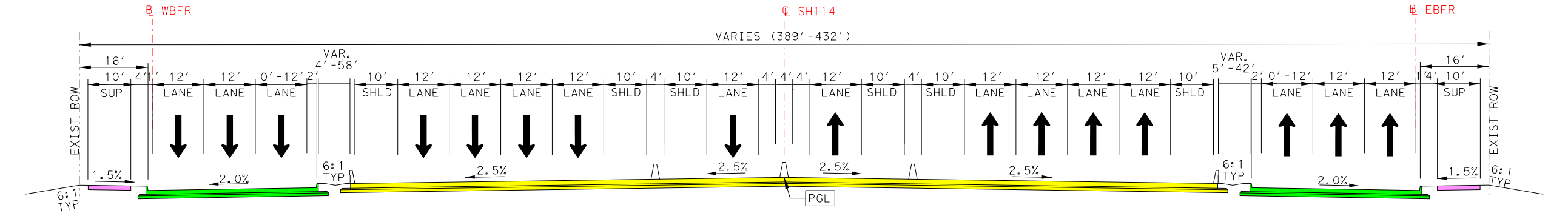
SH-114 PROPOSED TYPICAL SECTION
FROM 535+00 TO STA 555+00


℄ SH114
VARIES (421'-472')
EXIST ROW
PGL
SHLD
LANE
AX. LANE
6:1 TYP
2.5%

SH-114 PROPOSED TYPICAL SECTION
FROM 555+00 TO STA 572+00

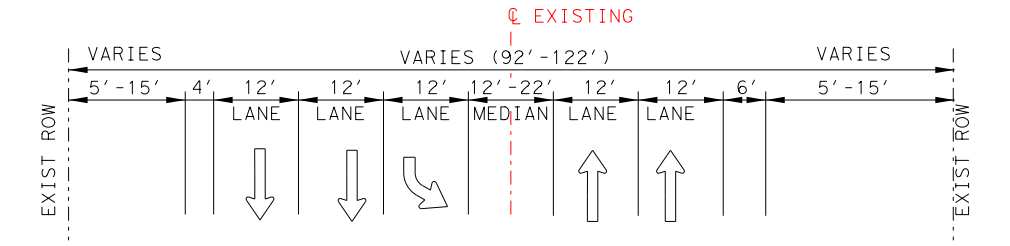

℄ SH114
VARIES
EXIST ROW
PGL
SHLD
LANE
AX. LANE
2.5% USUAL
3:1 MAX
1.5%
2.0%
VARIES%

SH-114 PROPOSED TYPICAL SECTION
FROM 572+00 TO STA 577+00

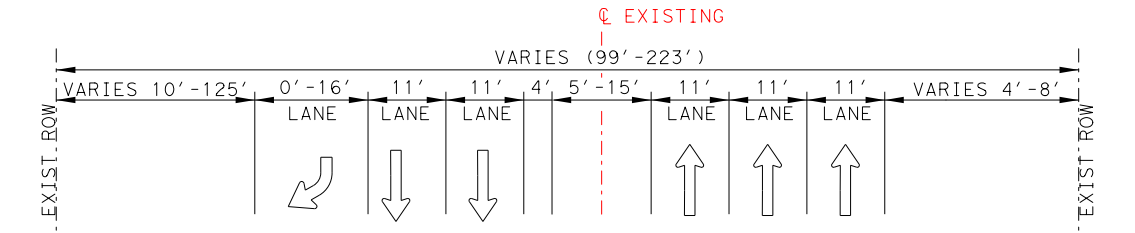

℄ WBFR
℄ SH114
℄ EBFR
VARIES (389'-432')
EXIST ROW
SUP
SHLD
LANE
AX. LANE
PGL
1.5%
2.0%
2.5%
6:1 TYP

*EXISTING WBFR TO REMAIN FROM WBFR STA 3588+87 TO WBFR STA 3612+65

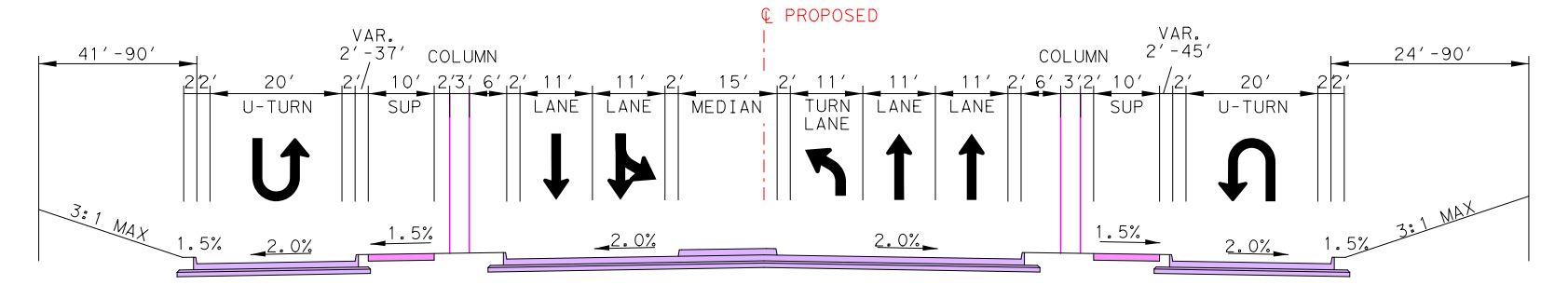
SH-114 PROPOSED TYPICAL SECTION
FROM STA 577+00 TO STA 605+00


℄ EXISTING
VARIES (92'-122')
VARIES
5'-15'
EXIST ROW
LANE
MEDIAN

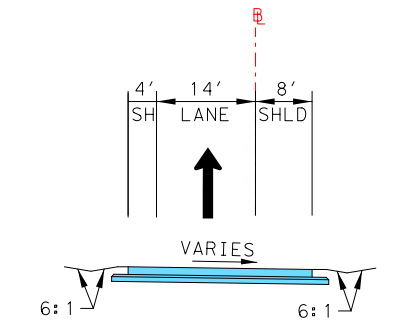
FREEPORT PKWY EXISTING TYPICAL SECTION - SOUTH SIDE


℄ EXISTING
VARIES (99'-223')
VARIES 10'-125'
VARIES 4'-8'
EXIST ROW
LANE

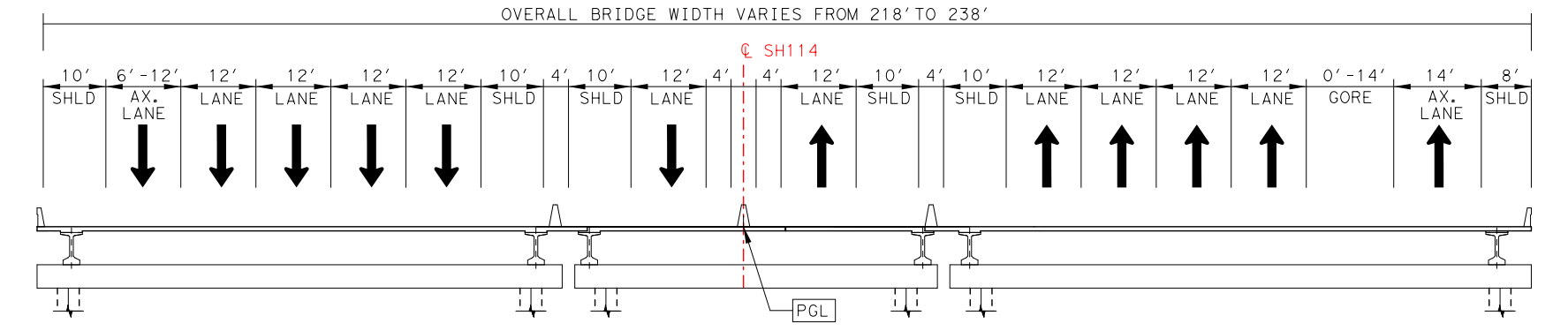
FREEPORT PKWY EXISTING TYPICAL SECTION - NORTH SIDE


℄ PROPOSED
41'-90'
24'-90'
COLUMN
U-TURN
SUP
LANE
MEDIAN
TURN LANE
3:1 MAX
1.5%
2.0%

FREEPORT PKWY PROPOSED TYPICAL SECTION


SH
LANE
SHLD
VARIES
6:1 TYP

SH-114 RAMP SECTION


OVERALL BRIDGE WIDTH VARIES FROM 218' TO 238'
℄ SH114
SHLD
AX. LANE
LANE
GORE
PGL

FREEPORT BRIDGE TYPICAL

N
DALLAS COUNTY
TARRANT COUNTY
INTERNATIONAL PKWY
N AIRFIELD DR
FREEPORT PKWY
DULLES DR
114 TEXAS
EXIST 36" RCP
BEGIN CSJ 0353-04-111 STA 510+00
BEGIN EB EXPRESS CONSTRUCTION MATCH EXISTING PAVEMENT BEG STA: 513+96
Freeport Pkwy 1 MILE
Esters Blvd 1½ MILES
PROPOSED COSS STA 510+40
BEGIN WBGP CONSTRUCTION MATCH EXISTING PAVEMENT
EXIST 9-10'x10' MBC (TO REMAIN)
BEGIN WB EXPRESS LANE CONSTRUCTION MATCH EXISTING PAVEMENT BEG STA: 540+35
BEGIN BRIDGE ℄ SH114 STA 538+90.00
END BRIDGE ℄ SH114 STA 539+90.00
BEGIN EBGP CONSTRUCTION MATCH EXISTING PAVEMENT
BEGIN FULL WIDTH SH 114 EXPRESS LANE CONSTRUCTION BEG STA: 550+05
Esters Blvd EXIT ¼ MILE
Freeport Pkwy
EXIT ONLY
PROPOSED COSS STA 557+00
EXPRESS LANE
EXPRESS LANE EXIT TO 121 DFW Airport
PROPOSED COSS STA 569+00
EXIST 30" RCP
EXIST 24" RCP
BEGIN PROP RET WALL ℄ SH114 STA 563+50.00
BEGIN PROP RET WALL ℄ SH114 STA 567+20.00
Esters Blvd
PROPOSED COSS STA 576+00
EXIST 5-7'x4' MBC (TO REMAIN)
END PROP RET WALL ℄ SH114 STA 576+15.00
BEGIN BRIDGE ℄ SH114 STA 576+15.00
END BRIDGE ℄ SH114 STA 579+70.00
BEGIN PROP RET WALL ℄ SH114 STA 579+70.00
EXPRESS LANE EXIT TO 121 DFW Airport ¼ MILE
PROPOSED COSS STA 581+30
EXIT
END WBFR CONSTRUCTION MATCH EXISTING PAVEMENT ℄ WBFR1 STA 3589+19.00
END PROP RET WALL ℄ SH114 STA 590+00.00
BEGIN CULVERT ℄ SH114 STA 599+03.69
END CULVERT ℄ SH114 STA 599+29.86
EXIST 24" RCP
EXIST 9'x5' MBC
PROP 5-4'x4' RCB
EXIST 6-36" RCP AND 2-5'x3' RCB (TO BE REMOVED)
END PROP RET WALL ℄ SH114 STA 591+00.00
161 2 MILES
PROPOSED COSS STA 592+60
EXIST ROW
PROP ROW
WB001
WB002
WB004
WB005
WB006
EB001
EB002
EB003
EB004
EB005
EB006
MATCHLINE - SEE ROLL 2 SH114 STA 605+00

PROP PGL ELEV
BEGIN FULL WIDTH SH 114 EXPRESS CONSTRUCTION ℄ SH 114 STA 549+00.00 EL=548.68
EXIST GROUND OF TOP OF PAVEMENT
STA = 552+50.00 EL = 552.18 ex = -0.75' K = 267 L = 400.00
+1.00%
-0.50%
VPC 550+50.00 EL=550.18
VPT 554+50.00 EL=551.18
VPC 560+25.00 EL=548.30
-0.50%
+1.91%
STA = 563+00.00 EL = 546.93 ex = 1.66' K = 228 L = 550.00
VPT 565+75.00 EL=552.19
FREEPORT PKWY
BEGIN BRIDGE STA 576+15.00 ELV 570.85
END BRIDGE STA 579+70.00 ELV 571.64
STA = 578+70.00 EL = 576.98 ex = -5.02' K = 249 L = 1,000.00
+1.91%
-2.10%
VPC 573+70.00 EL=567.41
VPT 583+70.00 EL=566.48
MIN 16'6" CLEAR
EXIST CULVERT A SH 114 STA 576+35.14 EXIST 5-7'x4' ECB FL = 535.4
(3) SPANS (136.00' - 93.00' - 135.00') TX62 GIRDER TYPE; ASSUME 6.00' STRUCTURAL DEPTH
EXIST GROUND ● PROP PGL
PROP PGL
VPC 589+75.00 EL=553.77
VPT 592+75.00 EL=549.86
-2.10%
-0.51%
STA = 591+25.00 EL = 550.62 ex = 0.60' K = 188 L = 300.00
VPC 598+20.00 EL=547.11
VPT 599+80.00 EL=546.99
-0.51%
+0.35%
STA = 599+00.00 EL = 546.71 ex = 0.17' K = 187 L = 160.00
PROP CULVERT B SH 114 STA 599+19.57 EXIST 5-36" RCP (TO BE REMOVED) PROP 5-4'x4' RCB FL = 535.60
MATCHLINE - SEE ROLL 2 SH114 STA 605+00
490
500
510
520
530
540
550
560
570
580
590
600
610
510+00
515+00
520+00
525+00
530+00
535+00
540+00
545+00
550+00
555+00
560+00
565+00
570+00
575+00
580+00
585+00
590+00
595+00
600+00
605+00

SUPERELEVATION DATA

Chain	Design Speed (mph)	Radius (ft)	Curve Dir	Begin e %	End e %	Rotation Width (ft)	Transition Length Used (ft)	Begin Station (USED)	End Station (USED)
SH 114-1	70	3819.78	WB	-2.50%	4.56%	24	339	501+50	505+00
SH 114-1	70	3819.78	WB	4.56%	-2.50%	24	339	531+75	535+25
SH 114-1	70	3819.78	EB	-2.50%	-4.56%	24	205	502+50	504+75
SH 114-1	70	3819.78	EB	-4.56%	-2.50%	24	205	531+75	534+00
WBSPLITFRE1	70	4500	EB	-2.50%	-4.10%	48	205	9562+00	9564+25
WBSPLITFRE1	70	4500	EB	-4.10%	-2.50%	48	205	9574+00	9576+25
SH 114-2	70	5000	EB	-2.50%	3.80%	102	1285	549+75	562+75
SH 114-2	70	5000	EB	3.80%	-2.50%	102	1285	570+25	583+25

CURVE	P.I. STATION	P.I. STATION-N	P.I. STATION-E	DELTA	RADIUS	TANGENT	LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
WBMLINT1	521+61.46	7,025,991.64	2,418,469.20	34° 06' 12.24" RT	3,854.78'	1,182.33'	2,294.43'	509+79.13	532+73.56	S 81° 03' 55.93" E	S 46° 57' 43.68" E
WBMLINT2	542+72.90	7,024,502.69	2,420,063.79	1° 44' 17.92" RT	14,100.00'	213.91'	427.78'	540+58.99	544+86.78	S 46° 57' 43.68" E	S 45° 13' 25.76" E
WBMLINT3	546+62.19	7,024,228.48	2,420,340.15	1° 57' 04.99" LT	10,300.00'	175.42'	350.80'	544+86.78	548+37.58	S 45° 13' 25.76" E	S 47° 10' 30.75" E
EBMLINT1	521+53.01	7,025,930.25	2,418,408.99	33° 18' 49.81" RT	3,784.78'	1,132.39'	2,200.61'	510+20.62	532+21.23	S 81° 03' 55.93" E	S 47° 45' 06.11" E
EBMLINT2	549+29.87	7,024,020.10	2,420,512.03	0° 34' 35.36" RT	14,988.00'	75.40'	150.80'	548+54.46	550+05.27	S 47° 45' 06.11" E	S 47° 10' 30.75" E
EBSPLITFRE1	8543+33.90	7,024,373.63	2,420,026.89	2° 42' 13.73" LT	14,100.00'	332.75'	665.39'	8540+01.14	8546+66.53	S 48° 18' 53.23" E	S 51° 01' 06.96" E
EBSPLITFRE2	8550+27.22	7,023,937.41	2,420,565.94	3° 50' 36.21" RT	10,750.00'	360.69'	721.11'	8546+66.53	8553+87.63	S 51° 01' 06.96" E	S 47° 10' 30.75" E
SH1141	519+15.37	7,026,174.94	2,418,213.51	42° 21' 40.69" RT	3,819.78'	1,480.11'	2,824.13'	504+35.26	532+59.39	S 89° 32' 11.45" E	S 47° 10' 30.75" E
SH1142	566+80.79	7,022,843.10	2,421,808.45	13° 16' 42.81" LT	5,000.00'	581.99'	1,158.77'	560+98.80	572+57.57	S 47° 10' 30.75" E	S 60° 27' 13.56" E
WBSPLITFRE1	9569+39.28	7,022,743.77	2,422,068.86	13° 30' 51.28" LT	4,500.00'	533.18'	1,061.41'	9564+06.10	9574+67.51	S 46° 56' 22.28" E	S 60° 27' 13.56" E
RNFREWB1	16+75.36	7,022,985.29	2,421,898.28	13° 30' 51.28" LT	5,700.00'	675.36'	1,344.45'	10+00.00	23+44.45	S 46° 56' 22.28" E	S 60° 27' 13.56" E
RXWBMLINT1	12+23.01	7,023,367.53	2,421,401.37	3° 14' 02.47" RT	7,900.00'	223.01'	445.91'	10+00.00	14+45.91	S 46° 56' 22.28" E	S 43° 42' 19.80" E
RXWBMLINT2	16+12.72	7,023,085.73	2,421,670.72	3° 21' 08.94" LT	5,700.00'	166.81'	333.52'	14+45.91	17+79.43	S 43° 42' 19.80" E	S 47° 03' 28.75" E
RXWBMLINT3	21+52.85	7,022,717.69	2,422,066.18	13° 23' 44.81" LT	2,520.00'	295.94'	589.18'	18+56.91	24+46.09	S 47° 03' 28.75" E	S 60° 27' 13.56" E
RXEBFRE1	18+24.05	7,022,593.48	2,421,907.13	13° 44' 26.76" LT	2,657.00'	320.14'	637.21'	15+03.91	21+41.12	S 47° 10' 30.75" E	S 60° 54' 57.51" E
RXEBEST1	11+98.66	7,022,211.05	2,422,712.59	3° 59' 31.94" RT	5,700.00'	198.66'	397.16'	10+00.00	13+97.16	S 60° 27' 13.56" E	S 56° 27' 41.61" E
RXEBEST2	16+72.50	7,021,949.17	2,423,107.67	3° 59' 31.94" LT	7,900.00'	275.34'	550.45'	13+97.16	19+47.61	S 56° 27' 41.61" E	S 60° 27' 13.56" E
RXEBEST3	26+38.15	7,021,472.87	2,423,947.95	9° 51' 25.18" RT	1,050.00'	90.54'	180.64'	25+47.61	27+28.25	S 60° 27' 13.56" E	S 50° 35' 48.38" E
RXEBEST4	28+18.79	7,021,357.92	2,424,087.87	9° 51' 25.18" LT	1,050.00'	90.54'	180.64'	27+28.25	29+08.89	S 50° 35' 48.38" E	S 60° 27' 13.56" E
RNESTWB1	14+14.46	7,021,893.61	2,423,690.35	8° 19' 03.24" LT	5,700.00'	414.46'	827.46'	10+00.00	18+27.46	S 60° 27' 13.56" E	S 68° 46' 16.80" E
RNESTWB2	19+03.81	7,021,715.90	2,424,147.85	8° 19' 03.24" RT	1,050.00'	76.35'	152.43'	18+27.46	19+79.89	S 68° 46' 16.80" E	S 60° 27' 13.56" E
RXWBFRE1	10+60.72	7,021,183.34	2,425,083.32	6° 37' 10.66" RT	1,050.00'	60.72'	121.31'	10+00.00	11+21.31	S 60° 27' 13.56" E	S 53° 50' 02.90" E
RXWBFRE2	11+82.03	7,021,111.67	2,425,181.36	6° 37' 10.66" LT	1,050.00'	60.72'	121.31'	11+21.31	12+42.62	S 53° 50' 02.90" E	S 60° 27' 13.56" E
EBFR11	4585+37.05	7,021,670.40	2,423,518.35	3° 04' 39.53" RT	1,040.00'	27.94'	55.86'	4585+09.11	4585+64.98	S 60° 27' 13.56" E	S 57° 22' 34.03" E
EBFR12	4585+92.92	7,021,640.28	2,423,565.41	3° 04' 39.53" LT	1,040.00'	27.94'	55.86'	4585+64.98	4586+20.84	S 57° 22' 34.03" E	S 60° 27' 13.56" E
WBFR11	3582+35.88	7,021,921.25	2,423,775.43	5° 02' 03.58" LT	1,040.00'	45.72'	91.38'	3581+90.16	3582+81.54	S 60° 27' 13.56" E	S 65° 29' 17.14" E
WBFR12	3585+54.90	7,021,788.87	2,424,065.76	5° 02' 03.58" RT	1,065.00'	46.82'	93.58'	3585+08.09	3586+01.66	S 65° 29' 17.14" E	S 60° 27' 13.56" E
UTFREEW1	11+10.00	7,022,222.08	2,422,642.44	90° 00' 00.00" LT	110.00'	110.00'	172.79'	10+00.00	11+72.79	S 60° 27' 13.56" E	N 29° 32' 46.44" E
UTFREEW2	13+35.79	7,022,459.58	2,422,777.06	90° 00' 00.00" LT	110.00'	110.00'	172.79'	12+25.79	13+98.58	N 29° 32' 46.44" E	N 60° 27' 13.56" W
UTFREWE1	11+10.00	7,022,353.88	2,422,914.86	90° 00' 00.00" LT	110.00'	110.00'	172.79'	10+00.00	11+72.79	N 60° 27' 13.56" W	S 29° 32' 46.44" W
UTFREWE2	13+23.79	7,022,126.82	2,422,786.15	90° 00' 00.00" LT	110.00'	110.00'	172.79'	12+13.79	13+86.58	S 29° 32' 46.44" W	S 60° 27' 13.56" E

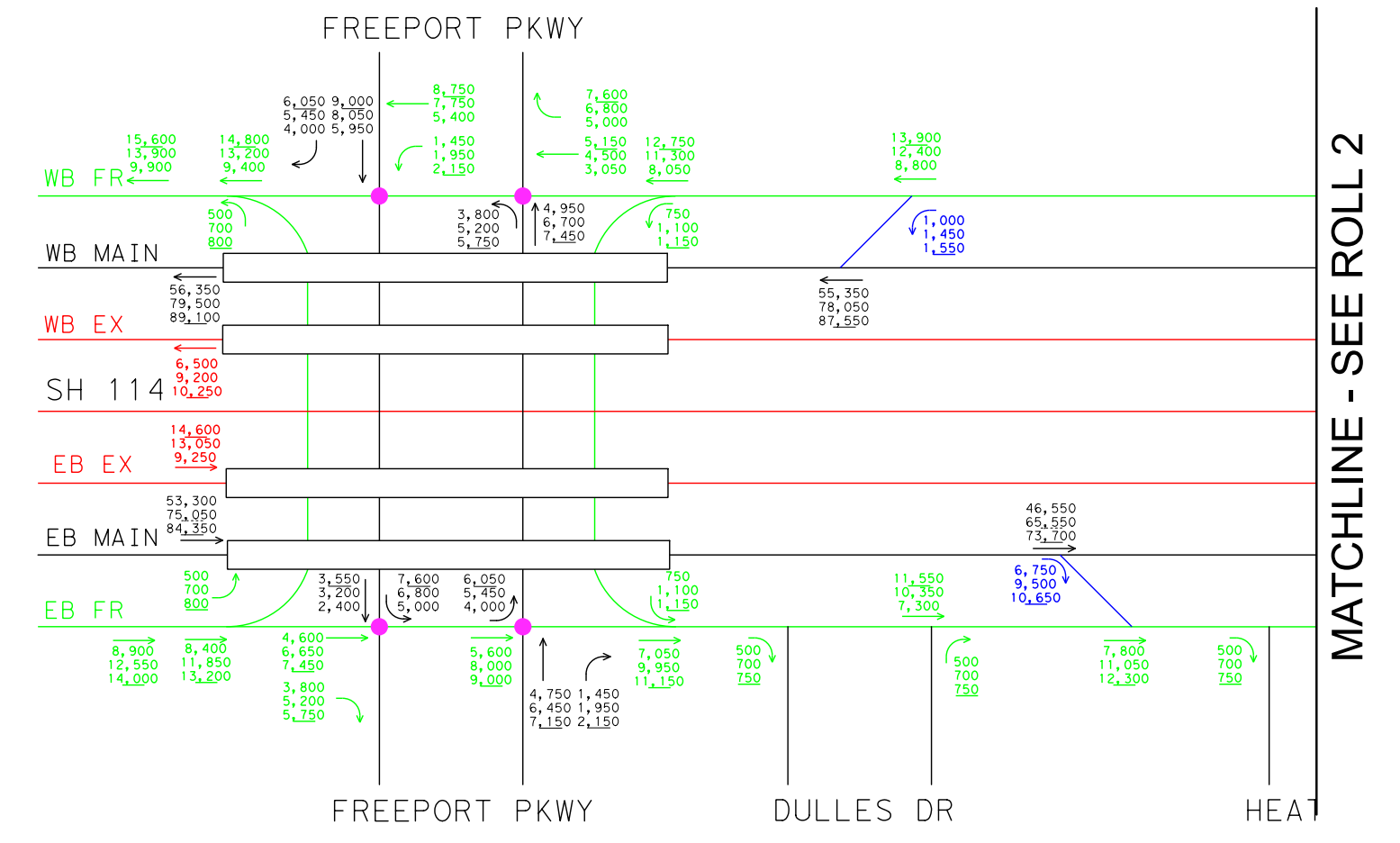
PROPERTY OWNERS

Parcel Number	Owner Name	Property Address
EB001	CFS 2907 DALLAS LLC	5100 W JOHN W CARPENTER FWY
EB002	CFS 2907 DALLAS LLC	5030 W JOHN W CARPENTER FWY
EB003	METROPLEX HOSPITALITY	5050 W JOHN W CARPENTER FWY
EB004	IRVING MAHADEV LLC	5000 W JOHN W CARPENTER FWY
EB005	CAPPS ALLARD E	4950 W JOHN W CARPENTER FWY
EB006	CAVALIER TEXAS LP	4850 W JOHN W CARPENTER FWY
EB007	RUFFIN HOTEL CORPORATION	4800 W JOHN W CARPENTER FWY
WB001	HITACHI HIGH TECH AMERICA INC	1375 N 28TH AVE
WB002	HH DFW HOTEL ASSOC LP	8440 FREEPORT PKWY
WB004	AMERICAN COLLEGE OF EMERGENCY PHYSICIANS	4950 W ROYAL LN
WB005	CF IRVING OWNER LLC	4701 W ROYAL LN
WB006	USCIF ROYAL LANE LLC	4701 W ROYAL LN

TURN LANE DATA

DIRECTION	TURN LANES	BEGIN STATION	END STATION	DESIGN SPEED	DECELERATION LENGTH	TAPER LENGTH	STORAGE
EBFR	RT	4568+69.00	4575+12.00	45	613	150	30
EBFR	UT	4568+50.00	4574+57.00	45	607	150	NA
WBFR	UT	3580+48.00	3573+16.00	45	732	150	NA
WBFR	RT	3579+51.00	3572+75.00	45	646	100	30

TRAFFIC DIAGRAM


FREEPORT PKWY
WB FR
WB MAIN
WB EX
SH 114
EB EX
EB MAIN
EB FR
FREEPORT PKWY
DULLES DR
HEA
MATCHLINE - SEE ROLL 2

LEGEND:
2025 ADT
2045 ADT
2055 ADT
● Signalized Intersection

SOURCE: PAPE-DAWSON ENGINEERS
JUNE 2022
SEE GENERAL NOTE #2

TEXAS DEPARTMENT OF TRANSPORTATION®
DALLAS DISTRICT
CEASON CLEMENS, P.E., DALLAS DISTRICT ENGINEER

DESIGN SCHEMATIC
SH 114
FROM EAST OF INTERNATIONAL PKWY TO RIVERSIDE DR, DALLAS COUNTY, TEXAS

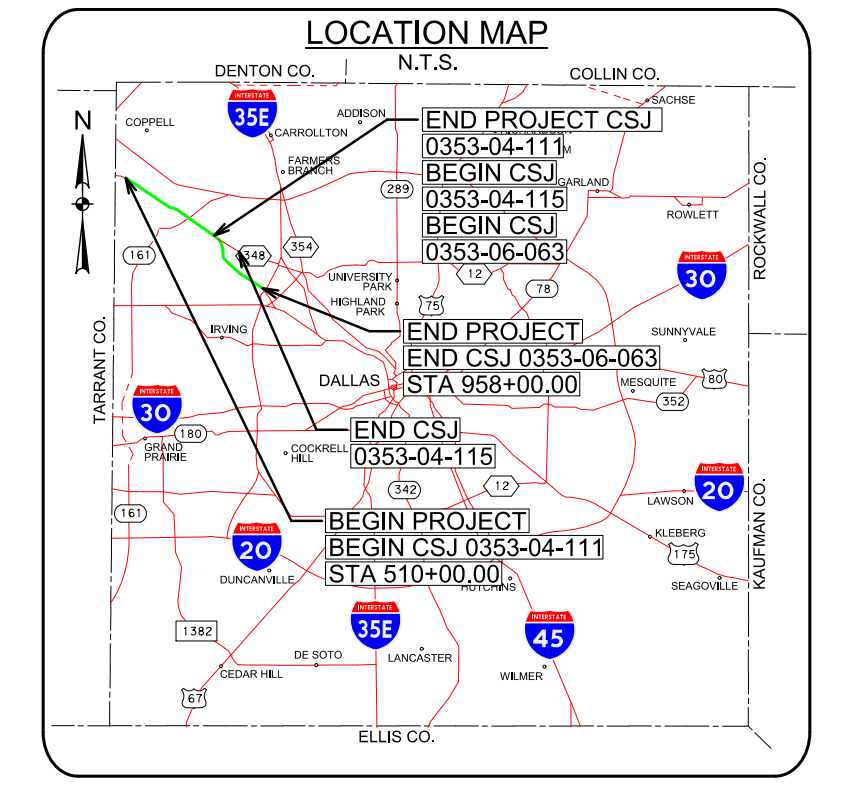
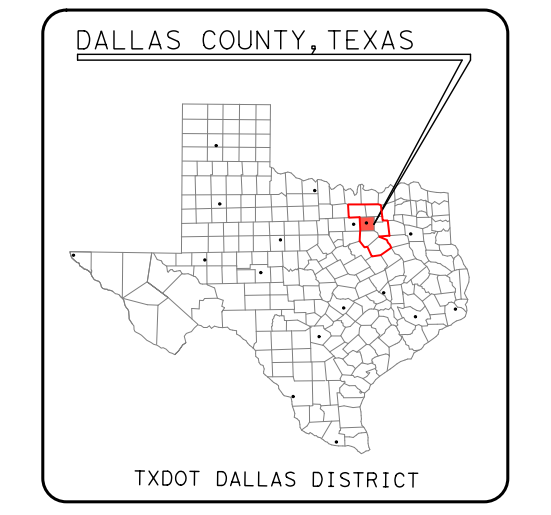
CSJ: 0353-04-111 0353-04-112
0353-04-115
0353-06-063 0353-06-067

100%
Preliminary, Subject to Change

JUNE 2024
ROLL 1 OF 13

LENGTH: 8.5 MILES
DESIGN SPEEDS / FUNCTIONAL CLASS
MAIN LANES: 70 MPH URBAN INTERSTATE
EXPRESS LANES: 70 MPH URBAN INTERSTATE
SPUR 348: 60 MPH PRINCIPAL ARTERIAL
SPUR 348 FRONTAGE ROAD: 35 MPH URBAN COLLECTOR
PGBT: 60 MPH PRINCIPAL ARTERIAL-OTHER FREEWAYS AND EXPRESSWAYS
PGBT FRONTAGE ROADS: 40 MPH
PGBT SERVICE RAMPS: 45 MPH
FRONTAGE ROAD BYPASS: 45 MPH
* WALNUT HILL FRONTAGE ROAD BYPASS: 35 MPH
DIRECT CONNECTORS/RAMPS: 50 MPH
* SB RAMPS TO PGBT & NB RAMP FROM PGBT: 30 MPH
* PGBT DC WB-NB & DC WB-SB: 35 MPH
* PGBT DC NB-EB: 35 MPH
* PGBT DC EB-SB: 30 MPH
* PGBT DC SB-WB & DC EB-NB: 40 MPH
* PGBT DC SB-EB: 35 MPH
* PGBT DC NB-WB: 35 MPH
FRONTAGE ROADS: 45 MPH URBAN COLLECTOR
FREEPORT PKWY 35 MPH
ESTERS BLVD 35 MPH
BELT LINE ROAD 45 MPH
MACARTHUR 40 MPH
WALNUT HILL 40 MPH
COLWELL 40 MPH
HIDDEN RIDGE 35 MPH
O'CONNOR 35 MPH
WINGREN 35 MPH
RIVERSIDE DRIVE/ROCHELLE BLVD 35 MPH
TURNAROUNDS: 15 MPH URBAN ARTERIAL / COLLECTOR
SHARED USE PATHS: 18 MPH
* Denotes exceptions to usual speed

LOCATION MAP
N.T.S.
TEXAS COUNTY MAP
N.T.S.
VERTICAL SCALE: 0 10 20 30 40
HORIZONTAL SCALE: 0 100 200 300 400

PRELIMINARY
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PHILLIP HANLEY 91815 6/17/2024
PHILLIP ULLMAN 71426 6/17/2024
LINA T. RAMEY & ASSOCIATES, INC.
TBPE FIRM #F-782
LTRA
3320 BELT LINE ROAD
FARMERS BRANCH, TX 75234
214-979-1144 MAIN
214-979-2480 FAX
DATE SUBMITTED:
DATE APPROVED:
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