TEXAS DEPARTMENT OF TRANSPORTATION®
DALLAS DISTRICT
MOHAMED K. BUR, P.E., DALLAS DISTRICT ENGINEER

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

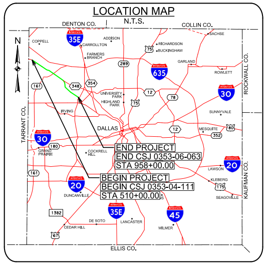
CSJ: 0353-04-111 0353-04-112
0353-04-115
0353-06-063 0353-06-067

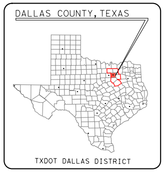
60% DRAFT
Preliminary, Subject to Change

JANUARY 2023
ROLL 3 OF 14

LENGTH: 7.10 MILES		
DESIGN SPEEDS		FUNCTIONAL CLASS
MAIN LANES:	70 MPH	URBAN INTERSTATE
MANAGED 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	
* DIRECT CONNECTORS/RAMPS:	50 MPH	
* SB RAMPS TO PGBT & NB RAMP FROM PGBT:	30 MPH	
* NB RAMP FROM PGBT:	30 MPH	
* PGBT DC WB-NB:	40 MPH	
* PGBT DC NB-EB:	45 MPH	
* PGBT DC EB-SB:	35 MPH	
* PGBT DC SB-WB:	30 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	
ROCHELLE	35 MPH	
TURNAROUNDS:	15 MPH	URBAN ARTERIAL / COLLECTOR
SHARED USE PATHS:	18 MPH	

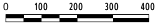
* Denotes exceptions to usual speed


LOCATION MAP
N.T.S.
DENTON CO.
COLLIN CO.
ROCKWALL CO.
KAUFMAN CO.
TARRANT CO.
ELLIS CO.
COPPELL
ADDISON
CARROLLTON
FARMERS BRANCH
RICHARDSON
BUCKINGHAM
SACHSE
GARLAND
ROWLETT
UNIVERSITY PARK
HIGHLAND PARK
IRVING
DALLAS
SUNNYVALE
MESQUITE
GRAND PRAIRIE
COCKRELL HILL
BALCH SPRINGS
LAWSON
KLEBERG
SEAGOVILLE
DUNCANVILLE
CEDAR HILL
DE SOTO
LANCASTER
WILMER
35E
635
30
20
45
75
END PROJECT
END CSJ 0353-06-063
STA 958+00.00
BEGIN PROJECT
BEGIN CSJ 0353-04-111
STA 510+00.00


DALLAS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

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:

NAME	P.E. NO.	DATE
PHILLIP HANLEY	91815	1/20/2023
PHILLIP ULLMAN	71426	1/20/2023

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: ________

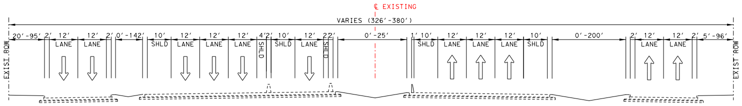
© 2022 by Texas Department of Transportation all rights reserved

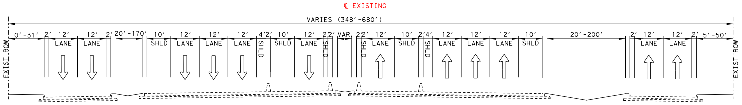
LEGEND:

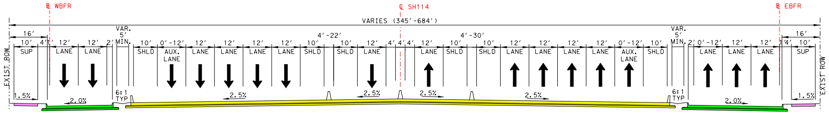
— — —	EXISTING ROW
— — —	EXISTING EASEMENT
——	EXISTING PROPERTY LIMITS
═══	EXISTING CULVERT
═══	EXISTING STORM SEWER
——	FEMA 100 YR FLOODPLAIN LIMITS
— — —	EXISTING TELE / CABLE / FIBER
— — —	EXISTING WATER LINE
— — —	EXISTING ELECTRIC LINE
— — —	EXISTING SANITARY SEWER LINE
— — —	EXISTING GAS / PETROLEUM 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 CULVERT
→	DIRECTION OF TRAVEL
■	EXISTING PAVEMENT TO REMAIN
■	PROPOSED BRIDGE
🟨	PROPOSED MAIN LANES
🟦	PROPOSED HOV 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

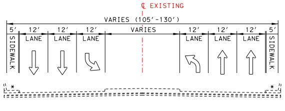
GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS AND RECORD PLANS.
2. TRAFFIC VOLUMES ARE PRELIMINARY AND WERE TRANSMITTED BY TP&P ON OCTOBER 29, 2021.
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.
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).

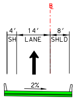

℄ EXISTING
VARIES (326'-380')
EXIST. ROW
LANE
SHLD
SH-114 EXISTING TYPICAL SECTION
FROM BELT LINE RD TO SH 161

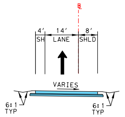

℄ EXISTING
VARIES (348'-680')
EXIST. ROW
LANE
SHLD
SH-114 EXISTING TYPICAL SECTION
FROM SH 161 TO SPUR 348

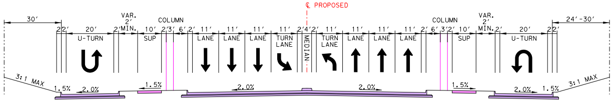

℄ WBFR
℄ SH114
℄ EBFR
VARIES (345'-684')
EXIST. ROW
SUP
LANE
SHLD
AUX. LANE
6:1 TYP
1.5%
2.0%
2.5%
SH-114 PROPOSED TYPICAL SECTION
FROM STA 705+00 TO STA 805+00

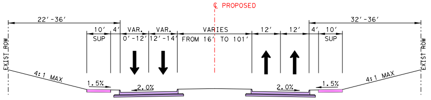

℄ EXISTING
VARIES (105'-130')
VARIES
SIDEWALK
LANE
* SIDEWALK ONLY ON BRIDGE

MACARTHUR BLVD EXISTING TYPICAL SECTION


℄
4'
14'
8'
SH
LANE
SHLD
2%
SH-114 FRONTAGEROAD BYPASS SECTION


℄
4'
14'
8'
SH
LANE
SHLD
VARIES
6:1 TYP
SH-114 RAMP SECTION


℄ PROPOSED
COLUMN
U-TURN
SUP
LANE
TURN LANE
MEDIAN
3:1 MAX
1.5%
2.0%
MACARTHUR BLVD PROPOSED TYPICAL SECTION

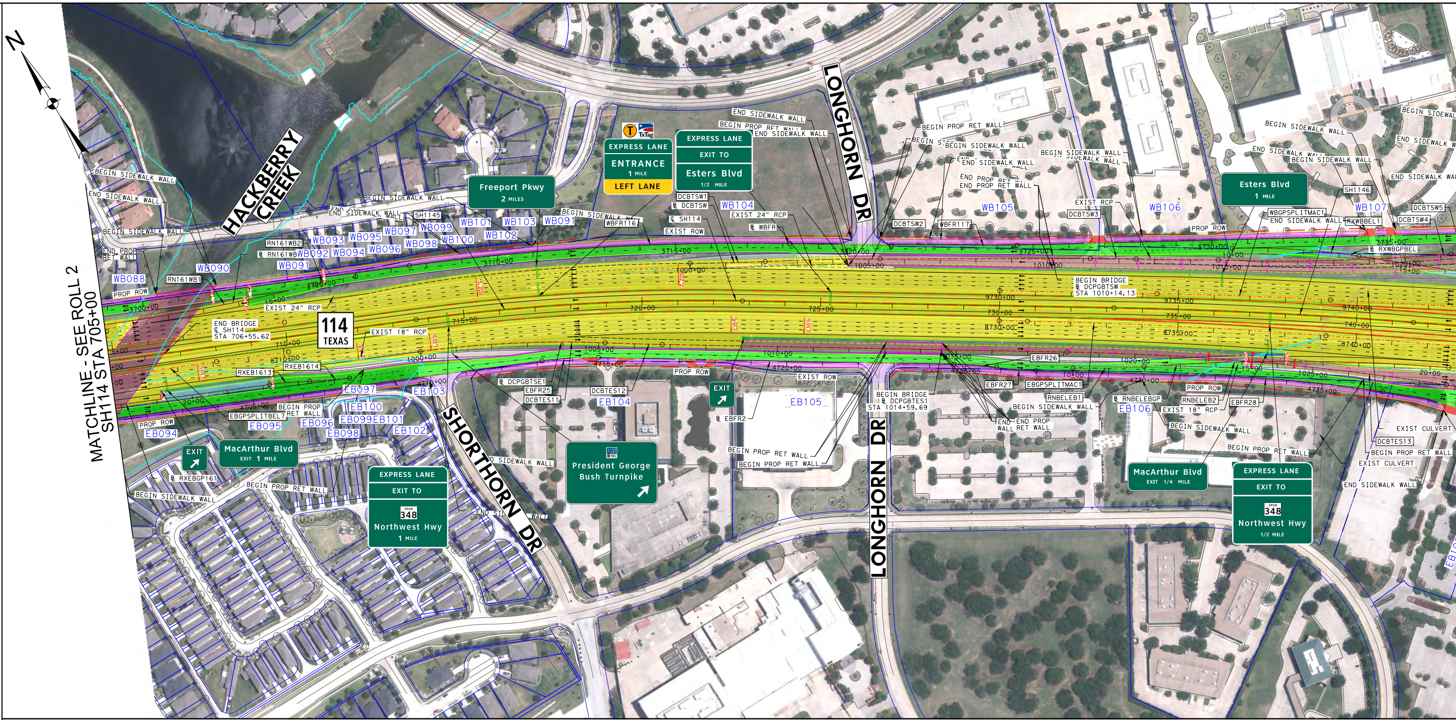
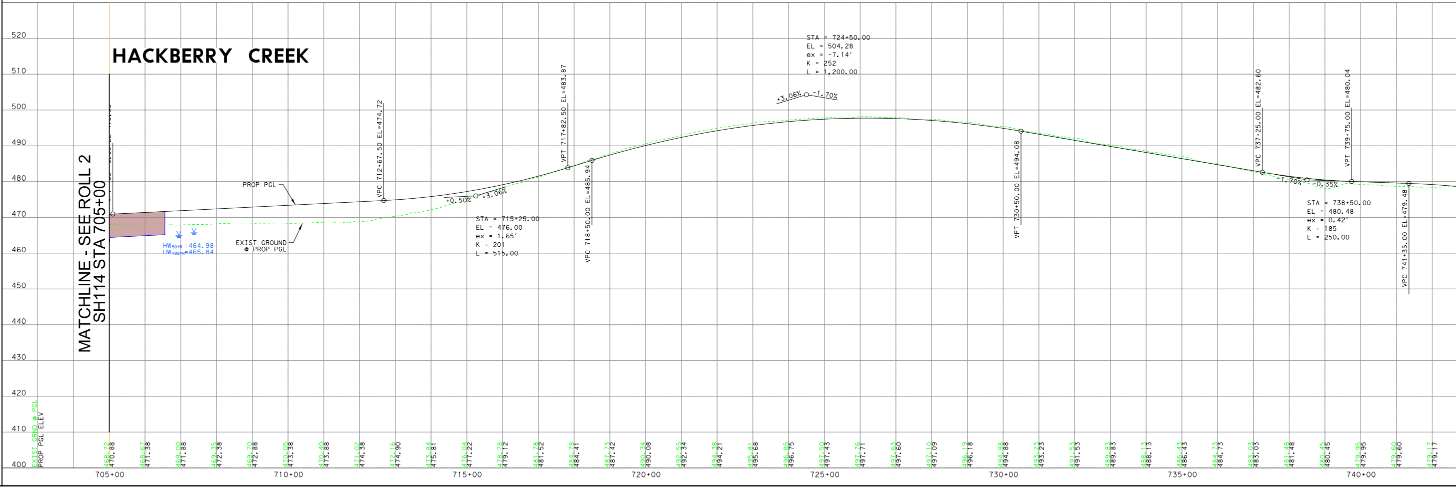

℄ PROPOSED
22'-36'
32'-36'
VARIES
FROM 16' TO 101'
EXIST. ROW
SUP
4:1 MAX
1.5%
2.0%
COLWELL PROPOSED TYPICAL SECTION

SUPERELEVATION DATA

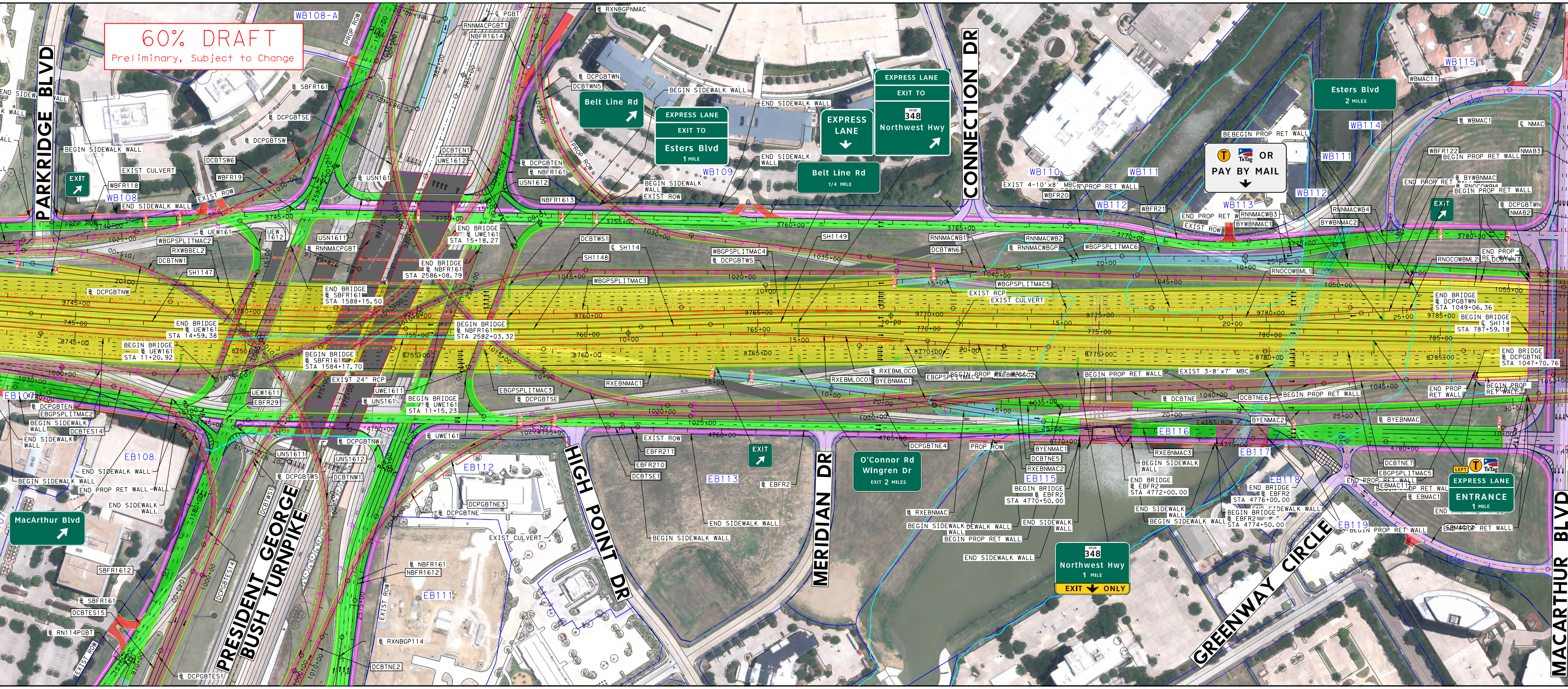
Chain	Design Speed (mph)	Radius (ft)	Curve Dir	Begin e %	End e %	Rotation Width (ft)	Transition Length Used (ft)	Begin Station (USED)	End Station (USED)
SH 114-5	70	6005	WB	-2.50%	3.20%	104	1186	703+58	715+44
SH 114-5	70	6005	WB	3.20%	-2.50%	104	1186	721+03	732+89
SH 114-5	70	6005	EB	-2.50%	-3.20%	90	205	711+92	713+97
SH 114-5	70	6005	EB	-3.20%	-2.50%	90	205	722+50	724+55

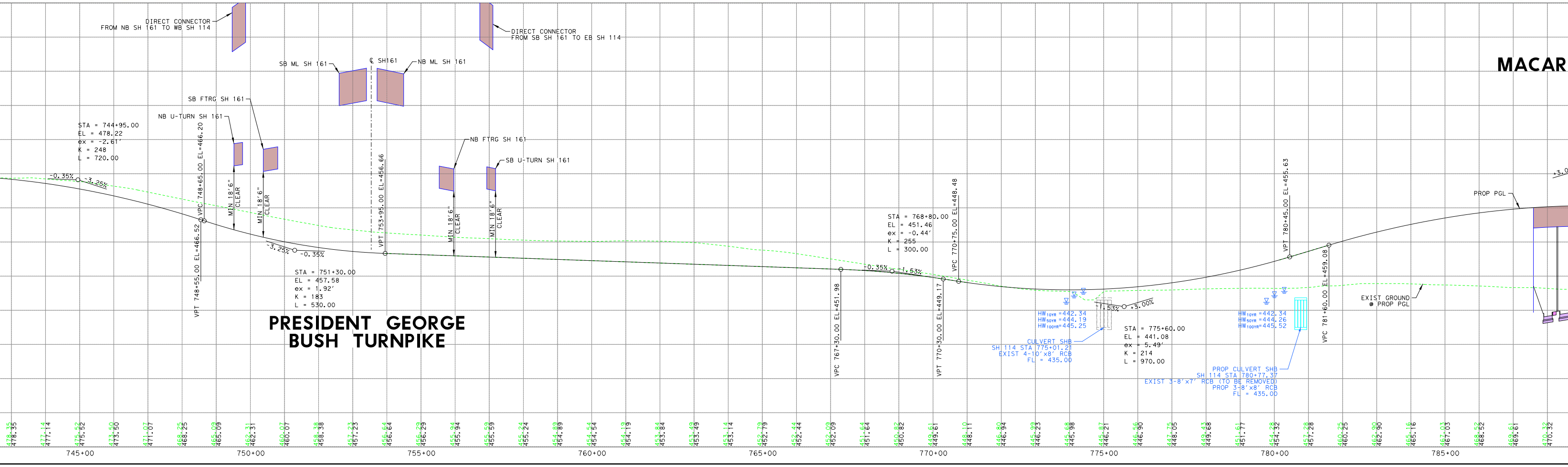
TRANSITION SUPERELEVATION DATA

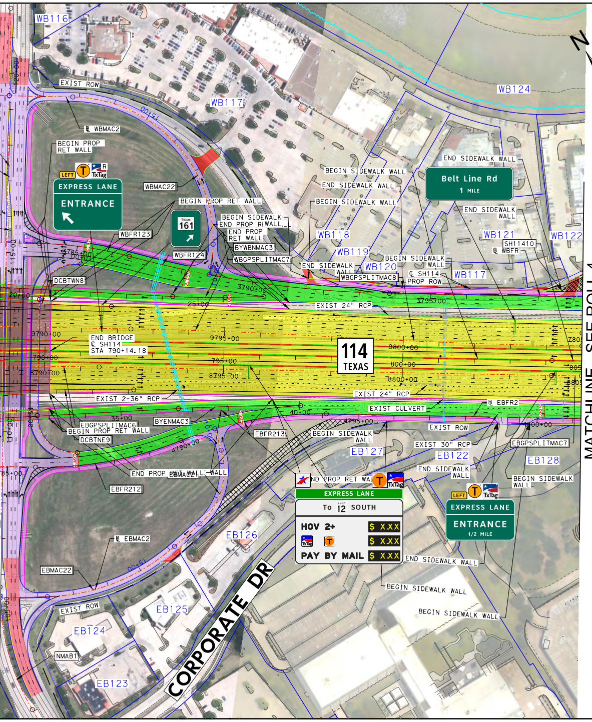
Chain	Design Speed (mph)	Radius (ft)	Curve Dir	Begin e %	End e %	Rotation Width (ft)	Transition Length Used (ft)	Begin Station (USED)	End Station (USED)
WBFR1	45	NA	WB	2.00%	-0.14%	24	105	3701+86	3702+91
WBFR1	45	NA	WB	-0.14%	2.00%	49	210	3702+91	3705+01
WBFR1	45	NA	WB	2.00%	2.45%	24	100	3741+00	3742+00
WBFR1	45	NA	WB	2.45%	1.30%	24	100	3749+00	3750+00
WBFR1	45	NA	WB	1.30%	2.00%	36	100	3753+20	3754+20
WBFR1	45	NA	WB	2.00%	-0.97%	30	200	3779+00	3781+00
WBFR1	45	NA	WB	-0.97%	2.00%	48	290	3785+20	3788+10

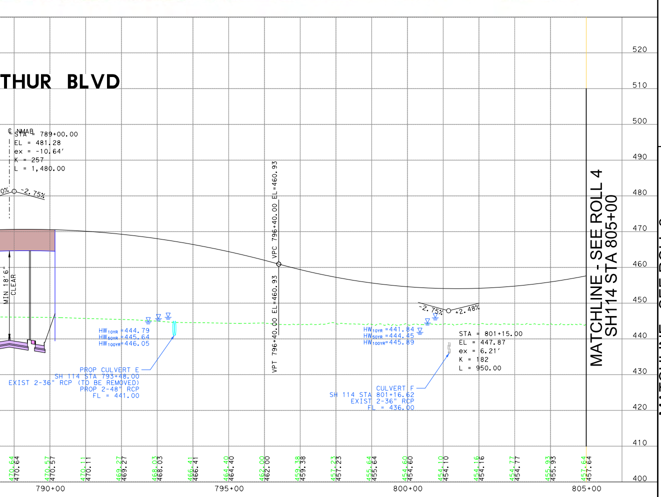

N
HACKBERRY CREEK
LONGHORN DR
SHORTHORN DR
LONGHORN DR
MATCHLINE - SEE ROLL 2
SH114 STA 705+00
114
TEXAS
EXPRESS LANE
ENTRANCE
1 MILE
LEFT LANE
Freeport Pkwy
2 MILES
EXPRESS LANE
EXIT TO
Esters Blvd
1/2 MILE
Esters Blvd
1 MILE
EXIT
MacArthur Blvd
EXIT 1 MILE
EXPRESS LANE
EXIT TO
SPUR 348
Northwest Hwy
1 MILE
EXIT
President George
Bush Turnpike
MacArthur Blvd
EXIT 1/4 MILE
EXPRESS LANE
EXIT TO
SPUR 348
Northwest Hwy
1/2 MILE
END BRIDGE
℄ SH114
STA 706+55.62
BEGIN BRIDGE
℄ DCPGBTSW
STA 1010+14.13
BEGIN BRIDGE
℄ DCPGBTES1
STA 1014+59.69
EXIST 24" RCP
EXIST 18" RCP
EXIST ROW
PROP ROW
BEGIN SIDEWALK WALL
END SIDEWALK WALL
BEGIN PROP RET WALL
END PROP RET WALL
EXIST CULVERT
3700+00
3705+00
3710+00
3715+00
3720+00
3725+00
3730+00
3735+00
710+00
715+00
720+00
725+00
730+00
735+00
740+00
1000+00
1005+00
1010+00
1015+00
1020+00
1025+00
4715+00
4720+00
4725+00
4730+00
8710+00
8730+00
8735+00
8740+00
9730+00
9735+00
9740+00
WB088
WB090
WB091
WB092
WB093
WB094
WB095
WB096
WB097
WB098
WB099
WB100
WB101
WB102
WB103
WB104
WB105
WB106
WB107
EB094
EB095
EB096
EB097
EB098
EB099
EB100
EB101
EB102
EB103
EB104
EB105
EB106
RN161WB1
RN161WB2
RXEB1613
RXEB1614
RXEBCP161
EBGPSPLITBEL7
SH1145
SH1146
WBFR116
WBFR117
DCBTSW1
DCBTSW2
DCBTSW3
DCBTSW4
DCBTSW5
DCPGBTSE1
EBFR25
EBFR26
EBFR27
EBFR28
DCBTES11
DCBTES12
DCBTES13
EBGPSPLITMAC1
RNBELEB1
RNBELEB2
RNBELEBGP
WBGPSPLITMAC1
RXWBBEL1
RXWBGPBEL
℄ WBFR
℄ EBFR2
℄ SH114
℄ DCBTSW


60% DRAFT
Preliminary, Subject to Change


PARKRIDGE BLVD
PRESIDENT GEORGE BUSH TURNPIKE
HIGH POINT DR
MERIDIAN DR
CONNECTION DR
GREENWAY CIRCLE
MACARTHUR BLVD
WB108-A
WB108
WB109
WB110
WB111
WB112
WB113
WB114
WB115
EB107
EB108
EB111
EB112
EB113
EB115
EB116
EB117
EB118
EB119
Belt Line Rd
EXPRESS LANE
EXIT TO
Esters Blvd
1 MILE
EXPRESS LANE
Belt Line Rd
1/4 MILE
EXPRESS LANE
EXIT TO
348
Northwest Hwy
Esters Blvd
2 MILES
OR
PAY BY MAIL
EXIT
MacArthur Blvd
EXIT
O'Connor Rd
Wingren Dr
EXIT 2 MILES
348
Northwest Hwy
1 MILE
EXIT ONLY
LEFT
EXPRESS LANE
ENTRANCE
1 MILE
BEGIN SIDEWALK WALL
END SIDEWALK WALL
EXIST CULVERT
EXIST ROW
PROP ROW
BEGIN BRIDGE
END BRIDGE
BEGIN PROP RET WALL
END PROP RET WALL
EXIST 24" RCP
EXIST 4-10'x8' MBC
EXIST 3-8'x7' MBC
EXIST RCP
STA 1588+15.50
STA 14+59.38
STA 11+20.92
STA 1584+17.70
STA 2586+08.79
STA 2582+03.32
STA 15+18.27
STA 11+15.23
STA 4770+50.00
STA 4772+00.00
STA 4776+00.00
STA 4774+50.00
STA 1049+06.36
STA 787+59.18
STA 1047+70.76
745+00
750+00
755+00
760+00
765+00
770+00
775+00
780+00
785+00


DIRECT CONNECTOR FROM NB SH 161 TO WB SH 114
DIRECT CONNECTOR FROM SB SH 161 TO EB SH 114
SB ML SH 161
℄ SH161
NB ML SH 161
SB FTRG SH 161
NB U-TURN SH 161
NB FTRG SH 161
SB U-TURN SH 161
MACAR
STA = 744+95.00
EL = 478.22
ex = -2.61'
K = 248
L = 720.00
-0.35%
-3.25%
VPC 748+65.00 EL=466.20
VPT 748+55.00 EL=466.52
MIN 18'6" CLEAR
-3.25%
-0.35%
STA = 751+30.00
EL = 457.58
ex = 1.92'
K = 183
L = 530.00
VPT 753+95.00 EL=456.66
PRESIDENT GEORGE BUSH TURNPIKE
STA = 768+80.00
EL = 451.46
ex = -0.44'
K = 255
L = 300.00
VPC 770+75.00 EL=448.48
VPC 767+30.00 EL=451.98
VPT 770+30.00 EL=449.17
-0.35%
-1.53%
-1.53%
+3.00%
HW10YR=442.34
HW50YR=444.19
HW100YR=445.25
CULVERT SHB
SH 114 STA 775+01.21
EXIST 4-10'x8' RCB
FL = 435.00
STA = 775+60.00
EL = 441.08
ex = 5.49'
K = 214
L = 970.00
HW10YR=442.34
HW50YR=444.26
HW100YR=445.52
PROP CULVERT SHB
SH 114 STA 780+77.37
EXIST 3-8'x7' RCB (TO BE REMOVED)
PROP 3-8'x8' RCB
FL = 435.00
VPT 780+45.00 EL=455.63
VPC 781+60.00 EL=459.08
EXIST GROUND @ PROP PGL
PROP PGL
-3.0
745+00
750+00
755+00
760+00
765+00
770+00
775+00
780+00
785+00


WB116
WB124
WB117
EXIST ROW
WBMAC2
BEGIN PROP RET WALL
EXPRESS LANE
ENTRANCE
Belt Line Rd
1 MILE
END SIDEWALK WALL
BEGIN SIDEWALK WALL
161
WBFR123
WBFR124
WB118
WB119
WB121
WB122
WB120
WB117
SH 114
EXIST 24" RCP
114
TEXAS
EXIST 2-36" RCP
EXIST CULVERT
EXIST ROW
EB127
EB122
EB128
EB126
EB125
EB124
EB123
EBMAC2
EBMAC22
EXPRESS LANE
To 12 SOUTH
HOV 2+ $ XXX
$ XXX
PAY BY MAIL $ XXX
EXPRESS LANE
ENTRANCE
1/2 MILE
CORPORATE DR
END BRIDGE SH114 STA 790+14.18
MATCHLINE - SEE ROLL 4
SH114 STA 805+00



HORIZONTAL ALIGNMENT DATA

BASELINE	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
	EBFR226	4883+47.42	7,003,762.14	2,446,147.89	6° 36′ 46.24" RT	1,040.00′	60.08′	120.03′	4882+87.34	4884+07.37	S 22° 37′ 28.97" E	S 16° 00′ 42.73" E
	EBFR227	4886+31.23	7,003,489.22	2,446,226.21	24° 17′ 39.42" LT	1,040.00′	223.85′	440.98′	4884+07.37	4888+48.35	S 16° 00′ 42.73" E	S 40° 18′ 22.15" E
	EBFR228	4899+75.15	7,002,459.22	2,447,099.91	8° 47′ 52.73" LT	1,040.00′	80.01′	159.70′	4898+95.14	4900+54.84	S 40° 18′ 22.15" E	S 49° 06′ 14.88" E
	EBFR229	4904+81.21	7,002,127.70	2,447,482.68	17° 56′ 50.69" RT	2,700.00′	426.37′	845.75′	4900+54.84	4909+00.59	S 49° 06′ 14.88" E	S 31° 09′ 24.19" E
	EBFR230	4911+05.61	7,001,587.39	2,447,809.35	22° 18′ 13.76" LT	1,040.00′	205.02′	404.85′	4909+00.59	4913+05.44	S 31° 09′ 24.19" E	S 53° 27′ 37.94" E
	EBFR231	4914+25.35	7,001,393.94	2,448,070.41	13° 09′ 15.79" RT	1,040.00′	119.91′	238.77′	4913+05.44	4915+44.21	S 53° 27′ 37.94" E	S 40° 18′ 22.15" E
	EBFR232	4921+03.15	7,000,876.24	2,448,509.54	7° 20′ 22.29" RT	1,040.00′	66.70′	133.22′	4920+36.45	4921+69.67	S 40° 18′ 22.15" E	S 32° 57′ 59.86" E
	EBFR233	4924+60.13	7,000,576.59	2,448,703.89	15° 02′ 32.75" LT	2,200.00′	290.46′	577.59′	4921+69.67	4927+47.26	S 32° 57′ 59.86" E	S 48° 00′ 32.62" E
	EBFR234	4936+75.06	6,999,761.55	2,449,609.37	8° 08′ 04.17" LT	5,600.00′	398.20′	795.05′	4932+76.86	4940+71.91	S 48° 00′ 32.62" E	S 56° 08′ 36.78" E
	EBGPSPLITBEL1	8632+22.23	7,019,539.76	2,427,456.04	2° 22′ 44.25" RT	10,703.00′	222.23′	444.40′	8630+00.00	8634+44.40	S 56° 09′ 12.10" E	S 53° 46′ 27.85" E
	EBGPSPLITBEL2	8638+89.92	7,019,145.14	2,427,994.71	2° 21′ 43.21" RT	14,148.00′	291.66′	583.25′	8635+98.26	8641+81.50	S 53° 46′ 27.85" E	S 51° 24′ 44.64" E
	EBGPSPLITBEL3	8644+72.18	7,018,781.92	2,428,449.90	2° 21′ 43.21" LT	14,100.00′	290.68′	581.27′	8641+81.50	8647+62.77	S 51° 24′ 44.64" E	S 53° 46′ 27.85" E
	EBGPSPLITBEL4	8662+16.19	7,017,751.22	2,429,856.86	1° 31′ 28.57" LT	14,100.00′	187.61′	375.19′	8660+28.59	8664+03.78	S 53° 46′ 27.85" E	S 55° 17′ 56.42" E
	EBGPSPLITBEL5	8665+92.02	7,017,537.25	2,430,165.86	1° 31′ 28.57" RT	14,148.00′	188.25′	376.47′	8664+03.78	8667+80.25	S 55° 17′ 56.42" E	S 53° 46′ 27.85" E
	EBGPSPLITBEL6	8692+28.25	7,015,979.32	2,432,292.51	15° 49′ 27.98" LT	6,000.00′	833.87′	1,657.13′	8683+94.38	8700+51.51	S 53° 46′ 27.85" E	S 69° 35′ 55.83" E
	EBGPSPLITBEL7	8704+31.19	7,015,556.28	2,433,429.95	3° 04′ 28.16" RT	14,148.00′	379.68′	759.18′	8700+51.51	8708+10.69	S 69° 35′ 55.83" E	S 66° 31′ 27.68" E
	EBGPSPLITMAC1	8734+96.93	7,014,106.52	2,436,131.32	3° 23′ 53.93" RT	14,100.00′	418.27′	836.30′	8730+78.66	8739+14.95	S 57° 47′ 39.16" E	S 54° 23′ 45.23" E
	EBGPSPLITMAC2	8748+10.04	7,013,341.90	2,437,199.16	3° 20′ 08.61" LT	14,100.00′	410.56′	820.89′	8743+99.48	8752+20.37	S 54° 23′ 45.23" E	S 57° 43′ 53.84" E
	EBGPSPLITMAC3	8756+54.23	7,012,891.08	2,437,913.16	1° 47′ 03.37" LT	14,100.00′	219.56′	439.09′	8754+34.66	8758+73.75	S 57° 43′ 53.84" E	S 59° 30′ 57.21" E
	EBGPSPLITMAC4	8770+11.33	7,012,202.61	2,439,082.70	1° 43′ 18.05" RT	14,100.00′	211.86′	423.69′	8767+99.47	8772+23.16	S 59° 30′ 57.21" E	S 57° 47′ 39.16" E
	EBGPSPLITMAC5	8782+78.71	7,011,527.13	2,440,155.10	2° 21′ 43.21" LT	14,100.00′	290.68′	581.27′	8779+88.03	8785+69.30	S 57° 47′ 39.16" E	S 60° 09′ 22.37" E
	EBGPSPLITMAC6	8788+60.97	7,011,237.33	2,440,660.22	2° 21′ 43.21" RT	14,148.00′	291.66′	583.25′	8785+69.30	8791+52.55	S 60° 09′ 22.37" E	S 57° 47′ 39.16" E
	EBGPSPLITMAC7	8804+59.00	7,010,385.60	2,442,012.45	0° 20′ 15.83" LT	14,142.00′	41.68′	83.36′	8804+17.32	8805+00.68	S 57° 47′ 39.16" E	S 58° 07′ 54.99" E
	EBGPSPLITRIV1	8943+52.31	6,999,688.47	2,449,877.34	6° 40′ 47.45" LT	6,037.00′	352.31′	703.83′	8940+00.00	8947+03.83	S 51° 28′ 52.03" E	S 58° 09′ 39.49" E
	EBGPSPLITRIV2	8948+39.24	6,999,431.18	2,450,291.68	1° 57′ 50.56" RT	7,900.00′	135.42′	270.80′	8947+03.83	8949+74.63	S 58° 09′ 39.49" E	S 56° 11′ 48.93" E
	EBMAC11	11+06.53	7,011,242.90	2,439,921.60	48° 37′ 45.77" LT	72.00′	32.53′	61.11′	10+74.00	11+35.11	S 32° 29′ 58.98" W	S 16° 07′ 46.79" E
	EBMAC12	15+08.67	7,010,852.79	2,440,034.41	43° 54′ 07.44" LT	725.00′	292.20′	555.52′	12+16.47	17+71.99	S 16° 07′ 46.79" E	S 60° 01′ 54.23" E
	EBMAC21	11+89.26	7,010,584.00	2,441,046.29	64° 45′ 18.09" RT	200.00′	126.81′	226.04′	10+62.44	12+88.48	S 14° 50′ 10.28" W	S 79° 35′ 28.38" W
	EBMAC22	15+86.78	7,010,507.19	2,440,628.17	39° 52′ 00.68" RT	560.00′	203.09′	389.65′	13+83.69	17+73.34	S 79° 35′ 28.38" W	N 60° 32′ 30.94" W
	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
	EBOCO11	10+92.39	7,003,457.60	2,446,165.36	51° 50′ 19.57" LT	62.00′	30.13′	56.09′	10+62.26	11+18.35	S 61° 53′ 00.02" W	S 10° 02′ 40.46" W
	EBOCO12	13+05.26	7,003,243.89	2,446,127.51	50° 29′ 50.17" LT	300.00′	141.48′	264.40′	11+63.78	14+28.18	S 10° 02′ 40.46" W	S 40° 27′ 09.72" E
	EBOCO21	11+09.70	7,002,743.88	2,446,714.60	55° 09′ 57.59" RT	110.00′	57.47′	105.91′	10+52.23	11+58.15	S 49° 41′ 37.85" W	N 75° 08′ 24.56" W
	EBOCO22	13+15.62	7,002,799.01	2,446,506.84	34° 41′ 14.84" RT	250.00′	78.08′	151.35′	12+37.55	13+88.90	N 75° 08′ 24.56" W	N 40° 27′ 09.72" W
	EBSPLIT3481	8845+19.25	7,008,300.37	2,445,498.66	54° 17′ 01.48" RT	3,932.00′	2,015.73′	3,725.30′	8825+03.52	8862+28.81	S 59° 42′ 53.79" E	S 5° 25′ 52.31" 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
	HID1	111+32.67	7,007,606.00	2,443,891.82	67° 38′ 23.98" RT	670.00′	448.86′	790.96′	106+83.80	114+74.77	N 39° 24′ 33.13" E	S 72° 57′ 02.89" E
	HID2	122+09.06	7,007,259.11	2,445,022.98	40° 22′ 09.44" LT	670.00′	246.31′	472.07′	119+62.75	124+34.82	S 72° 57′ 02.89" E	N 66° 40′ 47.67" E
	MAC1	103+90.01	7,010,543.00	2,440,253.88	31° 39′ 15.33" RT	650.00′	184.26′	359.11′	102+05.75	105+64.85	N 0° 33′ 05.51" E	N 32° 12′ 20.84" E
	NBFR1611	2570+95.62	7,012,106.99	2,436,988.50	6° 28′ 44.01" LT	1,338.00′	75.73′	151.30′	2570+19.89	2571+71.19	N 44° 53′ 43.56" E	N 38° 24′ 59.55" E
	NBFR1612	2576+42.54	7,012,535.64	2,437,328.44	13° 51′ 07.20" RT	1,052.00′	127.79′	254.33′	2575+14.75	2577+69.09	N 38° 24′ 59.55" E	N 52° 16′ 06.75" E
	NBFR1613	2588+66.82	7,013,285.61	2,438,297.70	15° 53′ 39.56" LT	1,040.00′	145.18′	288.50′	2587+21.64	2590+10.14	N 52° 16′ 06.75" E	N 36° 22′ 27.19" E
	NBFR1614	2591+34.44	7,013,502.59	2,438,457.51	17° 39′ 44.98" RT	800.00′	124.29′	246.61′	2590+10.14	2592+56.76	N 36° 22′ 27.19" E	N 54° 02′ 12.18" E
	OCO1	105+39.80	7,002,642.01	2,445,928.68	10° 05′ 29.12" LT	1,000.00′	88.29′	176.13′	104+51.51	106+27.64	N 59° 38′ 19.40" E	N 49° 32′ 50.28" E
	OCO2	124+75.79	7,003,898.41	2,447,402.20	35° 00′ 17.32" RT	2,130.00′	671.68′	1,301.32′	118+04.11	131+05.43	N 49° 32′ 50.28" E	N 84° 33′ 07.60" E
	PGBT1	942+03.74	7,010,944.32	2,434,910.98	18° 02′ 56.50" RT	5,729.58′	909.99′	1,804.90′	932+93.75	950+98.65	N 34° 10′ 38.60" E	N 52° 13′ 35.11" E
	PGBT2	983+08.99	7,013,468.19	2,438,167.84	1° 14′ 57.16" LT	11,459.37′	124.93′	249.85′	981+84.06	984+33.91	N 52° 13′ 35.11" E	N 50° 58′ 37.95" E
	RIV1	107+55.76	6,999,184.97	2,449,727.62	30° 10′ 11.29" RT	1,000.00′	269.54′	526.56′	104+86.22	110+12.78	N 3° 13′ 34.90" E	N 33° 23′ 46.19" E
	RIV2	120+07.63	7,000,240.58	2,450,423.57	59° 28′ 00.15" RT	705.00′	402.67′	731.71′	116+04.96	123+36.67	N 33° 23′ 46.19" E	S 87° 08′ 13.67" E
	RN114BT1	951+26.49	7,011,320.99	2,435,254.00	9° 04′ 31.06" RT	5,139.10′	407.85′	814.00′	947+18.64	955+32.64	N 42° 00′ 19.17" E	N 51° 04′ 50.23" E
	RN114BT2	959+14.03	7,011,816.81	2,435,868.06	12° 49′ 13.44" LT	2,850.00′	320.19′	637.71′	955+93.84	962+31.55	N 51° 04′ 50.23" E	N 38° 15′ 36.79" E
	RN114BT3	967+35.70	7,012,464.09	2,436,378.52	15° 58′ 07.03" RT	2,015.00′	282.63′	561.59′	964+53.07	970+14.66	N 38° 15′ 36.79" E	N 54° 13′ 43.82" E

NOTES TO REVIEWERS:

- * EXISTING PGBT MAINLANES HAVE DESIGN SPEED OF 60 MPH WITH CLEARANCE 16′ MINIMUM
- * PGBT MAINLANE RAMP JUNCTIONS TO MATCH EXISTING JUNCTION LOCATIONS DUE TO TOLL AND BONDING CONSTRAINTS (LIMITS HIGH SPEED (STEEPER GRADES) CONNECTIONS WITHOUT ADJUSTING RAMP LOCATIONS ALONG PGBT MAINLANES)

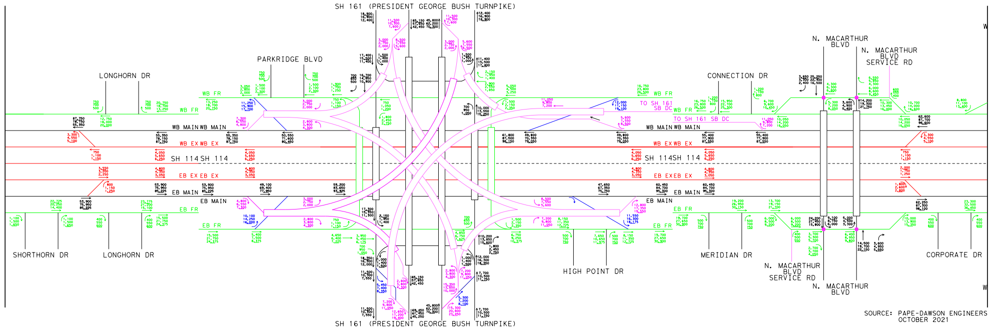
PROPERTY OWNERS

Parcel Number	Owner Name	Property Address
EB094	*PARKSIDE NEIGHBORHOOD	3400 CABELL DR
EB095	*PARKSIDE NEIGHBORHOOD	200 IVY HILL LN
EB096	PINA PATRICIA BEATRIZ ROSARIO &	3079 IVY HILL LN
EB097	*PARKSIDE COMMON	100 IVY HILL LN
EB098	MCKEE DELEON R & CHIHO MORI	3075 IVY HILL LN
EB099	PONNUSAMY VASAN &	3071 IVY HILL LN
EB100	SAHA AMIT & TAPASHI	3067 IVY HILL LN
EB101	MAHAJAN PUJA	3063 IVY HILL LN
EB102	KEDIA NEHA &	3059 IVY HILL LN
EB103	*PARKSIDE COMMON	100 IVY HILL LN
EB104	*POOL 2 INDUSTRIAL TX 2 LLC	6600 E CAMPUS CIRCLE DR
EB105	*PS LPT PROPERTIES INVESTORS	6651 LONGHORN DR
EB106	BOYD IRVING II GSA LLC	6500 E CAMPUS CIRCLE DR
EB107	WELLS REIT LAS COLINAS	6363 N STATE HWY 161
EB108	WELLS REIT LAS COLINAS	6333 N STATE HWY 161
EB109	PIEDMONT 161 CORPORATE CENTER LP	6225 N STATE HWY 161
EB110	*KCI STAR PARK OWNER LLC	1501 MERIDIAN DR
EB111	NORTHLAND DEVELOPMENTS	1311 MERIDIAN DR
EB112	114161 RETAIL LLC	5981 HIGH POINT DR
EB113	BLUE STAR &	1 MERIDIAN DR
EB114	BLUE STAR LAND	1300 MERIDIAN DR
EB115	DALLAS COUNTY U R D	5620 HIGHPOINT DR
EB116	LAS COLINAS ASSN THE	1600 W JOHN W CARPENTER FWY
EB117	LAS COLINAS ASSN THE	1600 W JOHN W CARPENTER FWY

Parcel Number	Owner Name	Property Address
EB118	TRIPLE A FUELS INC	1100 W JOHN W CARPENTER FWY
EB119	BROOKWOOD PROPERTIES	5601 N MACARTHUR BLVD
EB120	BROOKWOOD PROPERTIES	5525 N MACARTHUR BLVD
EB121	NATIONAL RETAIL PROPERTIES LP	5550 N MACARTHUR BLVD
EB122	MCLC REALTY LLC ETAL	601 W WALNUT HILL LN
EB123	GSDA PARTNERS LLC	1030 W JOHN W CARPENTER FWY
EB124	COMERICA BANK	1050 W JOHN W CARPENTER FWY
EB125	PSAA HOLDINGS LLC	950 W JOHN W CARPENTER FWY
EB126	REI RENTAS HOLDINGS LLC	900 W JOHN W CARPENTER FWY
EB127	DAVIS STEVEN L &	850 W JOHN W CARPENTER FWY
EB128	PIEDMONT 750 W JOHN	750 W JOHN W CARPENTER FWY
WB089	BRIDGES OF LAS COLINAS HOMEOWNERS	3400 W JOHN W CARPENTER FWY
WB090	DALLAS COUNTY UTILITY & RECLAMATION DISTRICT	3400 W JOHN W CARPENTER FWY
WB091	BRIDGES OF LAS COLINAS HOMEOWNERS	100 FOUNTAIN DR
WB091	BRIDGES OF LAS COLINAS HOMEOWNERS	100 FOUNTAIN DR
WB092	RAPPAI JOJO &	2436 FOUNTAIN DR
WB092	RAPPAI JOJO &	2436 FOUNTAIN DR
WB093	RANA NIRAV & MITABEN	2432 FOUNTAIN DR
WB093	RANA NIRAV & MITABEN	2432 FOUNTAIN DR
WB094	SOMANI ANIL K & ARTI TOSHNIWAL	2428 FOUNTAIN DR
WB095	EASWARAN KALAICHELVI	2424 FOUNTAIN DR
WB096	KUMETHA RAVINDRA R &	2420 FOUNTAIN DR
WB097	RINALDI DONATO	2416 FOUNTAIN DR
WB098	LIN CHIACHI & MAOCHENG	2412 FOUNTAIN DR

Parcel Number	Owner Name	Property Address
WB099	BANDA MEEDI GOPI K REDDY &	2408 FOUNTAIN DR
WB100	SHAIK MEHABOOB &	2404 FOUNTAIN DR
WB101	CHAUK MILIND S & MEENAL M	2400 FOUNTAIN DR
WB102	ISMAIL SYED	2350 FOUNTAIN DR
WB103	THAKOR KIRAN & HARSHABEN KIRAN	2346 FOUNTAIN DR
WB104	PAR CAPITAL HB VIEW LLC	2203 W ROYAL LN
WB105	CFT NV DEVELOPMENTS LLC	2101 W JOHN W CARPENTER FWY
WB106	CFT NV DEVELOPMENTS LLC	2001 W JOHN W CARPENTER FWY
WB107	JP 1925 JCF LP	1925 W JOHN W CARPENTER FWY
WB108	WILEY INDUSTRIES LLC	6535 N STATE HWY 161
WB108-A	*WILEY INDUSTRIES LLC	6535 State Highway 161
WB109	PIEDMONT OPERATING PARTNERSHIP LP	6011 CONNECTION DR
WB110	CCI IRVING VII A LP	6000 CONNECTION DR
WB111	DALLAS COUNTY U R D	1198 W ROYAL LN
WB112	DALLAS COUNTY U R D	1403 W JOHN W CARPENTER FWY
WB113	*PISTACHIO RP INVESTMENT LLC	1153 W JOHN CARPENTER FWY
WB114	DALLAS COUNTY U R D	6217 N MACARTHUR BLVD
WB115	GRAND PRIX LAS COLINAS LLC	5901 N MACARTHUR BLVD
WB116	WHITESTONE LAS COLINAS VILLAGE LLC	5910 N MACARTHUR BLVD
WB117	WHITESTONE LAS COLINAS VILLAGE LLC	861 W JOHN W CARPENTER FWY
WB118	REALTY INCOME TEXAS	5907 N MACARTHUR BLVD
WB119	REALTY INCOME TEXAS	859 W JOHN W CARPENTER FWY
WB120	LEEKEN RANCH LLC	907 W JOHN W CARPENTER FWY
WB121	COMMERCIAL NET LEASE	855 W JOHN W CARPENTER FWY
WB122	OSO NINE LLC	771 W JOHN W CARPENTER FWY

TRAFFIC DIAGRAM


SH 161 (PRESIDENT GEORGE BUSH TURNPIKE)
LONGHORN DR
PARKRIDGE BLVD
CONNECTION DR
N. MACARTHUR BLVD
N. MACARTHUR BLVD SERVICE RD
WB MAIN
WB EXWB EX
SH 114
EB EXEB EX
EB MAIN
WB FR
EB FR
TO SH 161 SB DC
TO SH 161 SB DC
SHORTHORN DR
LONGHORN DR
HIGH POINT DR
MERIDIAN DR
CORPORATE DR
N. MACARTHUR BLVD SERVICE RD
N. MACARTHUR BLVD
SH 161 (PRESIDENT GEORGE BUSH TURNPIKE)
MATCHLINE - SEE ROLL 2
MATCHLINE - SEE ROLL 4

SOURCE: PAPE-DAWSON ENGINEERS
OCTOBER 2021

TEXAS DEPARTMENT OF TRANSPORTATION®
DALLAS DISTRICT
MOHAMED K. BUR, P.E., DALLAS DISTRICT ENGINEER

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

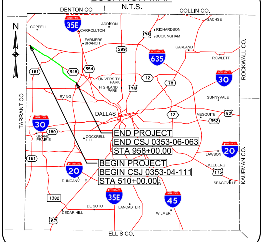
CSJ: 0353-04-111 0353-04-112
0353-04-115
0353-06-063 0353-06-067

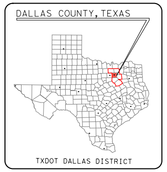
JANUARY 2023
ROLL 3 OF 14

LENGTH: 7.10 MILES		
DESIGN SPEEDS		FUNCTIONAL CLASS
MAIN LANES:	70 MPH	URBAN INTERSTATE
MANAGED 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	
* DIRECT CONNECTORS/RAMPS:	50 MPH	
* SB RAMPS TO PGBT & NB RAMP FROM PGBT:	30 MPH	
* NB RAMP FROM PGBT:	30 MPH	
* PGBT DC WB-NB:	40 MPH	
* PGBT DC NB-EB:	45 MPH	
* PGBT DC EB-SB:	35 MPH	
* PGBT DC SB-WB:	30 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	
ROCHELLE	35 MPH	
TURNAROUNDS:	15 MPH	URBAN ARTERIAL / COLLECTOR
SHARED USE PATHS:	18 MPH	

* Denotes exceptions to usual speed

LOCATION MAP
N.T.S.


DENTON CO.
COLLIN CO.
N
COPPELL
35E
CARROLLTON
ADDISON
FARMERS BRANCH
RICHARDSON
BUCKINGHAM
SACHSE
GARLAND
ROWLETT
635
30
TARRANT CO.
ROCKWALL CO.
DALLAS
SUNNYVALE
MESQUITE
80
END PROJECT
END CSJ 0353-06-063
STA 958+00.00
BEGIN PROJECT
BEGIN CSJ 0353-04-111
STA 510+00.00
20
DUNCANVILLE
35E
45
DE SOTO
LANCASTER
CEDAR HILL
WILMER
KAUFMAN CO.
ELLIS CO.


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:

NAME	P.E. NO.	DATE
PHILLIP HANLEY	91815	1/20/2023
PHILLIP ULLMAN	71426	1/20/2023

LINA T. RAMEY & ASSOCIATES, INC.
TBPE FIRM #F-782

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

DATE SUBMITTED:

DATE APPROVED:

© 2022 by Texas Department of Transportation all rights reserved