Texas Department of Transportation

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DALLAS DISTRICT
MOHAMED K. BUR, P.E., DISTRICT ENGINEER

US 80
60% DESIGN SCHEMATIC

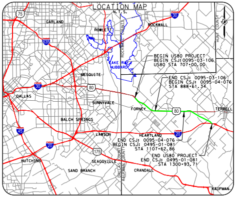
KAUFMAN COUNTY, TEXAS
FROM WEST OF FM 460 TO IH 20
CSJ: 0095-03-106, 0095-04-076 & 0495-01-081
LENGTH: 11.7 MILES

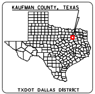
DATE: JULY 2022

ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
MAIN LANES:	60 MPH	URBAN FREEWAY
DIRECT CONNECTORS:	40 MPH	
RAMPS:	40 MPH	
FRONTAGE ROADS/BYPASSES/CONNECTORS:	40 MPH	
LOCAL STREETS:	30 MPH	LOCAL
LOCAL STREETS CONNECTORS:	20 MPH	
TURNAROUNDS:	15 MPH	

INDEX OF SHEETS

ROLL 1 OF 31: PLAN & PROFILE STA. BEGIN TO STA. 760+00
ROLL 2 OF 31: PLAN & PROFILE STA. 760+00 TO STA. 816+00
ROLL 3 OF 31: PLAN & PROFILE STA. 816+00 TO STA. 871+00
ROLL 4 OF 31: PLAN & PROFILE STA. 871+00 TO STA. 917+00
ROLL 5 OF 31: PLAN & PROFILE STA. 917+00 TO STA. 955+00
ROLL 6 OF 31: PLAN & PROFILE STA. 955+00 TO STA. 1003+00
ROLL 7 OF 31: PLAN & PROFILE STA. 1003+00 TO STA. 1042+00
ROLL 8 OF 31: PLAN & PROFILE STA. 1042+00 TO STA. 1081+00
ROLL 9 OF 31: PLAN & PROFILE STA. 1081+00 TO (SP557) STA. 1134+00
ROLL 10 OF 31: PLAN & PROFILE (SP557) STA. 1134+00 TO STA. 1178+00
ROLL 11 OF 31: PLAN & PROFILE STA. 1178+00 TO STA. 1227+00
ROLL 12 OF 31: PLAN & PROFILE STA. 1227+00 TO STA. 1274+00
ROLL 13 OF 31: PLAN & PROFILE STA. 1274+00 TO STA. 1323+00
ROLL 14 OF 31: PLAN & PROFILE I-20 INTERCHANGE
ROLL 15 OF 31: PLAN & PROFILE I-20 INTERCHANGE
ROLL 16-19 OF 31: PLAN & PROFILE EB FRONTAGE ROADS
ROLL 20-23 OF 31: PLAN & PROFILE WB FRONTAGE ROADS
ROLL 24 OF 31: PLAN & PROFILE US80 BUSINESS
ROLL 25 OF 31: PLAN & PROFILE US80 CROSS STREETS
ROLL 26 OF 31: PLAN & PROFILE SP557 CROSS STREETS
ROLL 27-29 OF 31: PLAN & PROFILE US80/SP557 RAMPS
ROLL 30 OF 31: PLAN & PROFILE U-TURNS/I-20 DIRECT CONNECTORS
ROLL 31 OF 31: PLAN & PROFILE I-20 FRONTAGE ROADS


LOCATION MAP
N.T.S.
75
GARLAND
ROWLE
ROCKWALL
30
635
LAKE RAY HUBBARD
BEGIN US80 PROJECT
BEGIN CSJ: 0095-03-106
US80 STA 707+00.00
MESQUITE
END CSJ: 0095-03-106
BEGIN CSJ: 0095-04-076
STA 888+61.34
80
30
DALLAS
SUNNYVALE
FORNEY
80
TERRELL
BALCH SPRINGS
45
LAWSON
HEARTLAND
20
END CSJ: 0095-04-076
BEGIN CSJ: 0495-01-081
STA 1107+62.86
20
175
END US80 PROJECT
END CSJ: 0495-01-081
STA 1300+93.71
HUTCHINS
SEAGOVILLE
SAND BRANCH
CRANDALL
KAUFMAN


KAUFMAN COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

PRELIMINARY
FOR INTERIM REVIEW ONLY

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

NAME	P.E. NO.	DATE
STEPHEN A JOHNSON, PE	103591	7/25/2022

JULY 22, 2022

ROLL NUMBER 14/31

GARVER
3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034
FIRM REGISTRATION NO. 5713

LEGEND

— · · — · · —	EXISTING ROW
— — — —	EXISTING EASEMENT
———	EXISTING PROPERTY LIMITS
═ · ═ · ═	EXISTING CULVERT
═ · ═ · ═	EXISTING STORM SEWER
▭	FEMA 100 YR FLOODPLAIN LIMITS
———	PARK BOUNDARY
———	EXISTING PLANIMETRIC FEATURES
- - - - - -	EXISTING CONTOURS (5-FT)
— — — —	EXISTING TELEPHONE/CABLE/FIBER OPTIC LINE
— — — —	EXISTING WATER LINE
— — — —	EXISTING ELECTRIC LINE
— — — —	EXISTING SANITARY SEWER LINE
— — — —	EXISTING GAS/PETROLEUM LINE
— — — —	CITY/COUNTY LIMITS
— - — - —	EXISTING CENTERLINE/BASELINE
— - — - —	PROPOSED CENTERLINE/BASELINE
— · · — · · —	PROPOSED ROW
— · — · —	PROPOSED ROW BY OTHERS
‡———‡———‡	PROPOSED ACCESS DENIAL
— — — —	PROPOSED DRAINAGE EASEMENT
———	PROPOSED EDGE OF PAVEMENT
━━━	PROPOSED CTB
———	PROPOSED BRIDGE
———	PROPOSED RETAINING WALL
— — — —	POTENTIAL NOISE WALL
═ · ═ · ═	PROPOSED CULVERT
▨	PAVEMENT/BRIDGE TO BE REMOVED
▨	WORK BY OTHERS TO BE REMOVED
▨	EXISTING EAST FORK WETLANDS
▨	EXISTING EAST FORK WATERS OF US
■	EXISTING BRIDGE TO REMAIN
■	PROPOSED BRIDGE
■	PROPOSED MAIN LANES
■	PROPOSED RAMP
■	PROPOSED FRONTAGE ROAD/BYPASSES
■	PROPOSED CROSS STREET
■	PROPOSED SHARED USE PATH
■	PROPOSED PROJECT BY OTHERS
■	POTENTIAL DISPLACEMENTS
▭	PROPOSED RIP RAP
⇨	EXISTING TRAFFIC FLOW
→	PROPOSED TRAFFIC FLOW
(200)	PARCEL ID

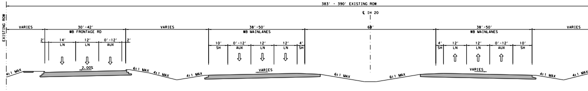
NOTES:

1. EXISTING FEATURES BASED ON LIMITED FIELD SURVEY. SCHEMATICS ARE BASED ON AERIAL TOPO DATED FEBRUARY 14, 2022 AND RECORD PLANS.
2. TRAFFIC APPROVED BY TXDOT DALLAS DISTRICT AND REVIEWED BY TP&P ON XX-XX-XXXX.
3. SHARED USE PATH ADA RAMP LAYOUTS ARE PRELIMINARY AND SUBJECT TO CHANGE. DETAILED LAYOUTS TO BE DEVELOPED DURING PS&E.
4. DRIVEWAY LOCATIONS ARE PRELIMINARY. FRONTAGE ROAD DRIVEWAY RETURN RADII ARE 15' FOR RESIDENTIAL AND 25' FOR COMMERCIAL/FARM/RANCH.
5. ACCESS ALONG THE PROPOSED FRONTAGE ROADS WILL BE CONTROLLED BY PERMIT IN ACCORDANCE WITH THE TXDOT ACCESS MANAGEMENT MANUAL.
6. EXISTING PAVEMENT/BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED (UNLESS NOTED OTHERWISE).
7. SUPER ELEVATION AXIS OF ROTATION IS ABOUT THE PGL AND IS LINEAR (UNLESS NOTED OTHERWISE). SUPER ELEVATION RATES WERE CALCULATED BASED ON A MAXIMUM SUPER ELEVATION RATE OF 6%.
8. ALL CURBS ARE TYPE II (UNLESS NOTED OTHERWISE).
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
10. FEMA 100 YEAR FLOODPLAIN LIMITS FROM FLOOD INSURANCE RATE MAPS 48257C0040D, 48257C0155D, 48257C0175D, 48257C0200D, 48257C0185D (2012).
11. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DRAWINGS.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING PS&E.
13. OWNERSHIP INFORMATION OBTAINED FROM KAUFMAN CENTRAL APPRAISAL DISTRICT IN FEBRUARY 2022.
14. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING STRUCTURE. ACTUAL DAMAGES TO THE BUILDING AND PROPERTY TO BE DETERMINED DURING ROW ACQUISITION.
15. U-TURNS DESIGNED TO ACCOMMODATE WB-62 TRUCK PATHING REQUIREMENTS.
16. RAMP CROSS SLOPE TRANSITIONS BETWEEN MAIN LANES (2.5%) AND FRONTAGE ROADS (2%) WILL OCCUR OVER A 50 FT. LENGTH.

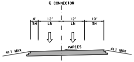
50'
0
50'
100'
HORIZONTAL
1":100'
5'
0
5'
10'
VERTICAL
1":10'

GRAPHIC SCALE IN FEET

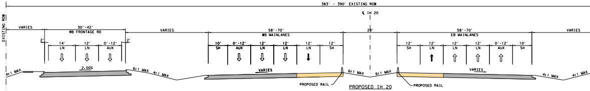
TYPICAL SECTIONS [N.T.S.]


383' - 390' EXISTING ROW
℄ IH 20
EXISTING ROW
VARIES
30'-42'
WB FRONTAGE RD
2'
14'
LN
12'
LN
0'-12'
AUX
2'
2.00%
4:1 MAX
6:1 MAX
4:1 MAX
VARIES
38'-50'
WB MAINLANES
10'
SH
0'-12'
AUX
12'
LN
12'
LN
4'
SH
VARIES
4:1 MAX
68'
6:1 MAX
6:1 MAX
38'-50'
WB MAINLANES
4'
SH
12'
LN
12'
LN
0'-12'
AUX
10'
SH
VARIES
VARIES
4:1 MAX
4:1 MAX

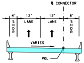
EXISTING IH 20
STA 1150+00 TO STA 1211+00


℄ CONNECTOR
4'
SH
12'
LN
12'
LN
10'
SH
VARIES
4:1 MAX
4:1 MAX

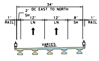
EXISTING IH 20 CONNECTOR


383' - 390' EXISTING ROW
℄ IH 20
EXISTING ROW
VARIES
30'-42'
WB FRONTAGE RD
2'
14'
LN
12'
LN
0'-12'
AUX
2'
2.00%
4:1 MAX
6:1 MAX
4:1 MAX
VARIES
58'-70'
WB MAINLANES
10'
SH
0'-12'
AUX
12'
LN
12'
LN
12'
LN
12'
SH
VARIES
PROPOSED RAIL
28'
6:1 MAX
6:1 MAX
PROPOSED RAIL
58'-70'
EB MAINLANES
12'
SH
12'
LN
12'
LN
12'
LN
0'-12'
AUX
10'
SH
VARIES
VARIES
4:1 MAX
4:1 MAX
PROPOSED IH 20

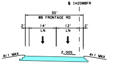
TYPICAL SECTION - SEGMENT 3


℄ CONNECTOR
4'
SHDR
12'
LANE
12'
LANE
8'
SHDR
VARIES
PGL

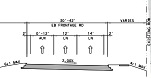
PROPOSED SP 557 SB TO IH 20 EB

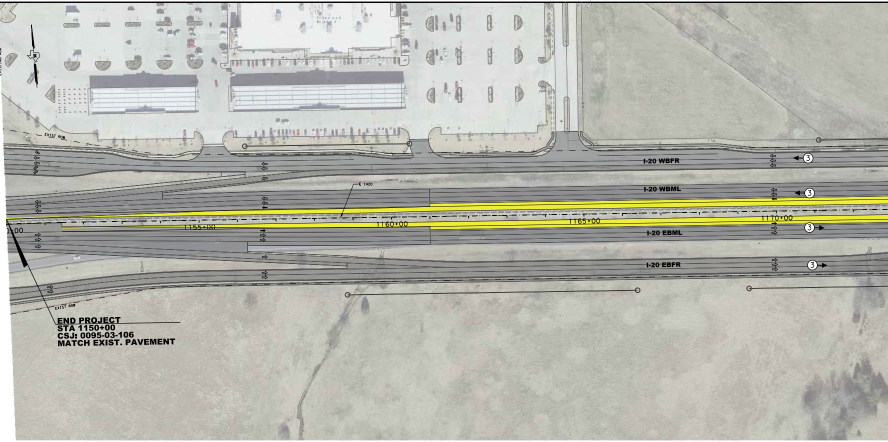

34'
DC EAST TO NORTH
2'
SH
1'
RAIL
12'
LN
12'
LN
8'
SH
1'
RAIL
VARIES

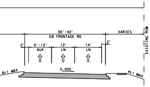
PROPOSED EXIT RAMP SP 557 TO IH 20


℄ IH20WBFR
30'
WB FRONTAGE RD
2'
14'
LN
12'
LN
2'
2.00%
4:1 MAX
4:1 MAX

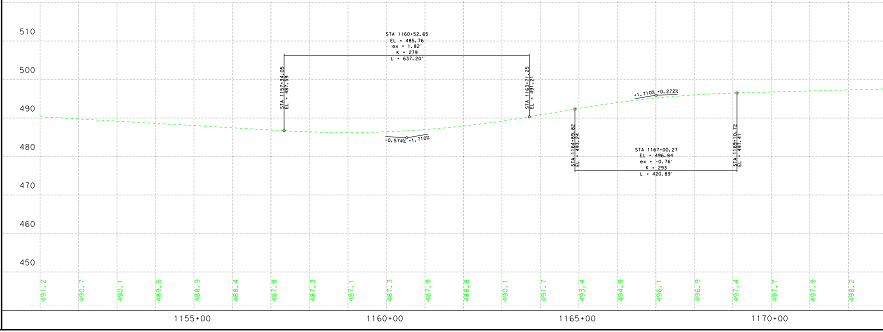
PROPOSED IH 20 WB FRONTAGE RD CONNECTOR

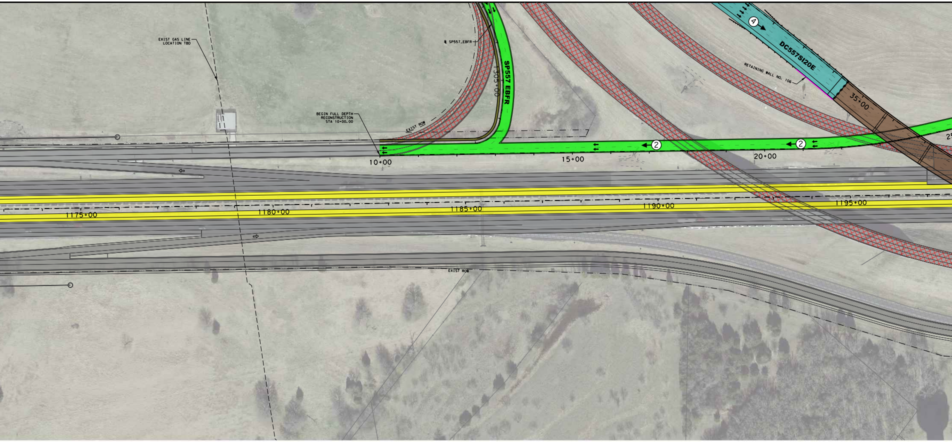

30'-42'
EB FRONTAGE RD
VARIES
2'
0'-12'
AUX
12'
LN
14'
LN
2'
EXISTING ROW
6:1 MAX
2.00%
4:1 MAX

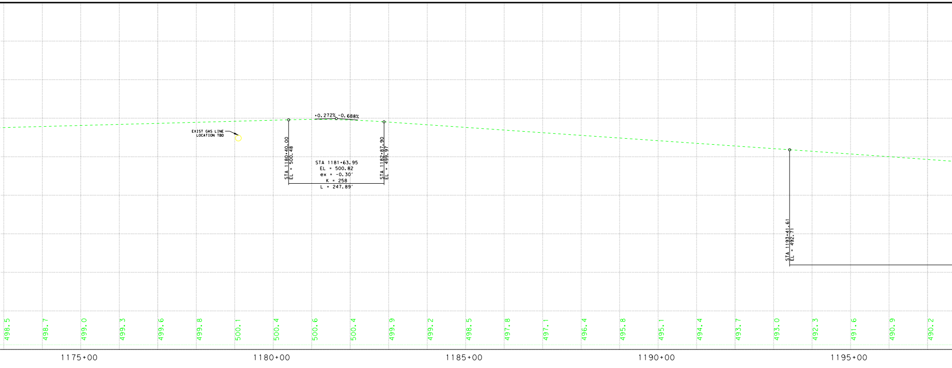

EXIST ROW
I-20 WBFR
③
I-20 WBML
③
℄ IH20
1155+00
1160+00
1165+00
1170+00
I-20 EBML
③
I-20 EBFR
③
EXIST ROW
END PROJECT
STA 1150+00
CSJ: 0095-03-106
MATCH EXIST. PAVEMENT

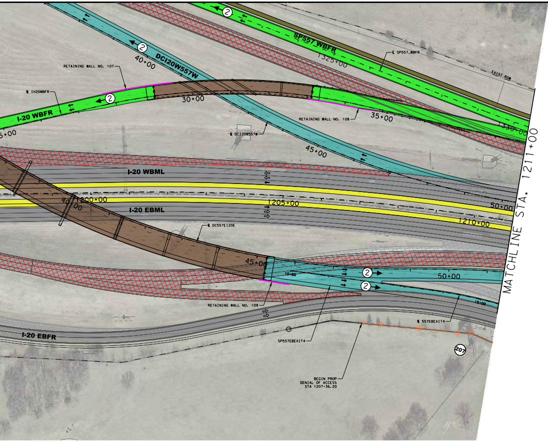

30'-42'
EB FRONTAGE RD
VARIES
2'
0'-12'
AUX
12'
LN
14'
LN
2'
EXISTING ROW
6:1 MAX
2.00%
4:1 MAX

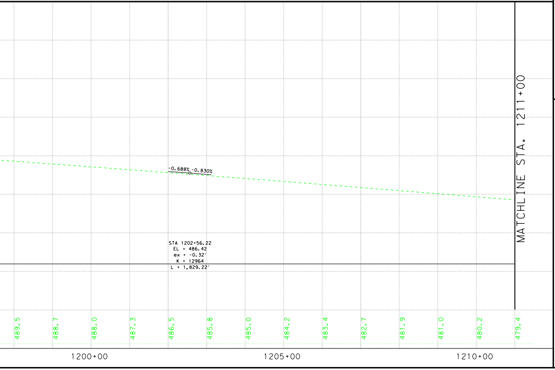
IH 20 - EXIST IH 20 MAIN LANES (60 MPH)



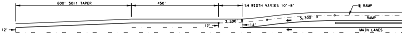

EXIST GAS LINE
LOCATION TBD
℄ SP557_EBFR
SP557 EBFR
1305+00
BEGIN FULL DEPTH
RECONSTRUCTION
STA 10+00.00
EXIST ROW
10+00
15+00
20+00
2
2
4
DC557SI20E
RETAINING WALL NO. 106
35+00
25
1175+00
1180+00
1185+00
1190+00
1195+00
EXIST ROW


+0.272%
-0.688%
EXIST GAS LINE
LOCATION TBD
STA 1180+40.00
EL = 500.48
STA 1181+63.95
EL = 500.82
ex = -0.30'
K = 258
L = 247.89'
STA 1182+87.90
EL = 499.97
STA 1193+41.61
EL = 492.71
498.5
498.7
499.0
499.3
499.6
499.8
500.1
500.4
500.6
500.4
499.9
499.2
498.5
497.8
497.1
496.4
495.8
495.1
494.4
493.7
493.0
492.3
491.6
490.9
490.2
1175+00
1180+00
1185+00
1190+00
1195+00

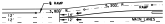

SP557 WBFR
1325+00
℄ SP557_WBFR
EXIST ROW
DCI20W557W
40+00
45+00
RETAINING WALL NO. 107
℄ IH20WBFR
I-20 WBFR
30+00
35+00
RETAINING WALL NO. 108
1330+00
℄ DCI20W557W
I-20 WBML
50+00
1200+00
1205+00
40+00
I-20 EBML
1210+00
℄ DC557EI20E
45+00
10+00
50+00
15+00
RETAINING WALL NO. 109
℄ 557EBEXIT4
SP557EBEXIT4
I-20 EBFR
207
BEGIN PROP
DENIAL OF ACCESS
STA 1207+36.20
MATCHLINE STA. 1211+00



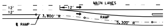
RAMP GORE DETAILS [N.T.S.]


600' 50:1 TAPER
450'
SH WIDTH VARIES 10'-8'
℄ RAMP
5,300' R
RAMP
3,800' R
12'
14'
12'
MAIN LANES

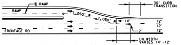
MAIN LANE GORE DETAIL - MERGE ENTRANCE RAMP


℄ RAMP
5,300' R
RAMP
3,800' R
12'
12'
14'
12'
MAIN LANES

MAIN LANE GORE DETAIL - LANE ADD ENTRANCE RAMP

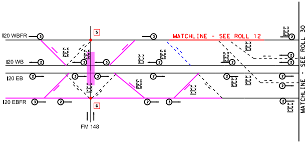

MAIN LANES
12'
12'
12'
3,800' R
RAMP
℄ RAMP
5,300' R

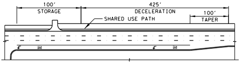
MAIN LANE GORE DETAIL - LANE DROP EXIT RAMP


℄ RAMP
RAMP
30' CURB TRANSITION
1,050' R
1,050' R
14'
12'
12'
12'
2'
FRONTAGE RD
LN WIDTH VARIES 14'-12'

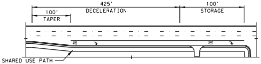
FRONTAGE ROAD GORE DETAIL

TRAFFIC LINE DIAGRAM [N.T.S.]

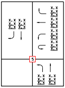

I20 WBFR
I20 WB
I20 EB
I20 EBFR
5
6
MATCHLINE - SEE ROLL 12
MATCHLINE - SEE ROLL 30
FM 148

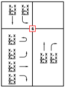

100′
STORAGE
425′
DECELERATION
100′
TAPER
SHARED USE PATH

LEFT-TURN BAY DETAIL (TYPICAL)


425′
DECELERATION
100′
TAPER
100′
STORAGE
SHARED USE PATH

RIGHT-TURN BAY DETAIL (TYPICAL)





LEGEND

▬	PROPOSED WORK BY OTHERS	■	EXISTING BRIDGE	Ⓧ	NUMBER OF TRAVEL LANES
▬	STREAM	■	PROPOSED BRIDGE BY OTHERS	X.X	YEAR (XXXX) ADT
┼┼┼	UNION PACIFIC RAILROAD	●	SIGNALIZED INTERSECTIONS	X.X	YEAR (XXXX) ADT
				X.X	YEAR (XXXX) ADT

Texas Department of Transportation

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DALLAS DISTRICT
MOHAMED K. BUR, P.E., DISTRICT ENGINEER

US 80
60% DESIGN SCHEMATIC

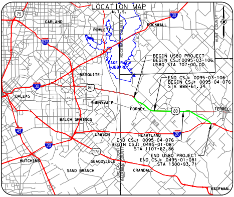
KAUFMAN COUNTY, TEXAS
FROM WEST OF FM 460 TO IH 20
CSJ: 0095-03-106, 0095-04-076 & 0495-01-081
LENGTH: 11.7 MILES

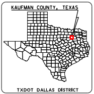
DATE: JULY 2022

ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
MAIN LANES:	60 MPH	URBAN FREEWAY
DIRECT CONNECTORS:	40 MPH	
RAMPS:	40 MPH	
FRONTAGE ROADS/BYPASSES/CONNECTORS:	40 MPH	
LOCAL STREETS:	30 MPH	LOCAL
LOCAL STREETS CONNECTORS:	20 MPH	
TURNAROUNDS:	15 MPH	

INDEX OF SHEETS

ROLL 1 OF 31:	PLAN & PROFILE STA. BEGIN TO STA. 760+00
ROLL 2 OF 31:	PLAN & PROFILE STA. 760+00 TO STA. 816+00
ROLL 3 OF 31:	PLAN & PROFILE STA. 816+00 TO STA. 871+00
ROLL 4 OF 31:	PLAN & PROFILE STA. 871+00 TO STA. 917+00
ROLL 5 OF 31:	PLAN & PROFILE STA. 917+00 TO STA. 955+00
ROLL 6 OF 31:	PLAN & PROFILE STA. 955+00 TO STA. 1003+00
ROLL 7 OF 31:	PLAN & PROFILE STA. 1003+00 TO STA. 1042+00
ROLL 8 OF 31:	PLAN & PROFILE STA. 1042+00 TO STA. 1081+00
ROLL 9 OF 31:	PLAN & PROFILE STA. 1081+00 TO (SP557) STA. 1134+00
ROLL 10 OF 31:	PLAN & PROFILE (SP557) STA. 1134+00 TO STA. 1178+00
ROLL 11 OF 31:	PLAN & PROFILE STA. 1178+00 TO STA. 1227+00
ROLL 12 OF 31:	PLAN & PROFILE STA. 1227+00 TO STA. 1274+00
ROLL 13 OF 31:	PLAN & PROFILE STA. 1274+00 TO STA. 1323+00
ROLL 14 OF 31:	PLAN & PROFILE I-20 INTERCHANGE
ROLL 15 OF 31:	PLAN & PROFILE I-20 INTERCHANGE
ROLL 16-19 OF 31:	PLAN & PROFILE EB FRONTAGE ROADS
ROLL 20-23 OF 31:	PLAN & PROFILE WB FRONTAGE ROADS
ROLL 24 OF 31:	PLAN & PROFILE US80 BUSINESS
ROLL 25 OF 31:	PLAN & PROFILE US80 CROSS STREETS
ROLL 26 OF 31:	PLAN & PROFILE SP557 CROSS STREETS
ROLL 27-29 OF 31:	PLAN & PROFILE US80/SP557 RAMPS
ROLL 30 OF 31:	PLAN & PROFILE U-TURNS/I-20 DIRECT CONNECTORS
ROLL 31 OF 31:	PLAN & PROFILE I-20 FRONTAGE ROADS


LOCATION MAP
N.T.S.
75
GARLAND
ROWLETT
ROCKWALL
30
635
ROCKWALL COUNTY
HUNT COUNTY
LAKE RAY HUBBARD
BEGIN US80 PROJECT
BEGIN CSJ:0095-03-106
US80 STA 707+00.00
MESQUITE
END CSJ: 0095-03-106
BEGIN CSJ: 0095-04-076
STA 888+61.34
30
80
DALLAS
SUNNYVALE
FORNEY
80
TERRELL
BALCH SPRINGS
45
LAWSON
HEARTLAND
20
END CSJ: 0095-04-076
BEGIN CSJ: 0495-01-081
STA 1107+62.86
20
175
END US80 PROJECT
END CSJ: 0495-01-081
STA 1300+93.71
HUTCHINS
SEAGOVILLE
DALLAS COUNTY
KAUFMAN COUNTY
SAND BRANCH
CRANDALL
KAUFMAN


KAUFMAN COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

PRELIMINARY
FOR INTERIM REVIEW ONLY

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

NAME	P.E. NO.	DATE
STEPHEN A JOHNSON, PE	103591	7/25/2022

JULY 22, 2022

ROLL NUMBER 14/31

GARVER
3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034
FIRM REGISTRATION NO. 5713