Texas Department of Transportation

© 2023 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

US 80
100% 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

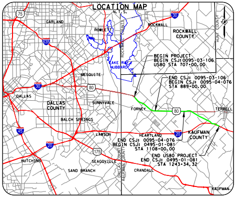
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
MAIN LANES:	60 MPH	URBAN FREEWAY
DIRECT CONNECTORS:	40 MPH	
RAMPS:	40 MPH	
FRONTAGE ROADS/BYPASSES/CONNECTORS:	40 MPH	
LOCAL STREETS:	30 MPH	LOCAL
LOCAL STREETS CONNECTORS:	20 MPH	
TURNAROUNDS:	15 MPH	

INDEX OF SHEETS

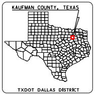
ROLL 1 OF 31: PLAN & PROFILE STA. BEGIN TO STA. 760+00
ROLL 2 OF 31: PLAN & PROFILE STA. 760+00 TO STA. 816+00
ROLL 3 OF 31: PLAN & PROFILE STA. 816+00 TO STA. 872+00
ROLL 4 OF 31: PLAN & PROFILE STA. 872+00 TO STA. 917+00
ROLL 5 OF 31: PLAN & PROFILE STA. 917+00 TO STA. 955+00
ROLL 6 OF 31: PLAN & PROFILE 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 (1 OF 2)
ROLL 15 OF 31: PLAN & PROFILE I-20 INTERCHANGE (2 OF 2)
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 EB AND WB 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.


GARLAND
ROWLETT
ROCKWALL
ROCKWALL COUNTY
HUNT COUNTY
LAKE RAY HUBBARD
BEGIN PROJECT
BEGIN CSJ:0095-03-106
US80 STA 707+00.00
MESQUITE
END CSJ: 0095-03-106
BEGIN CSJ: 0095-04-076
STA 889+00.00
DALLAS
DALLAS COUNTY
SUNNYVALE
FORNEY
TERRELL
BALCH SPRINGS
LAWSON
HEARTLAND
KAUFMAN COUNTY
END CSJ: 0095-04-076
BEGIN CSJ: 0495-01-081
STA 1108+00.00
END US80 PROJECT
END CSJ: 0495-01-081
STA 1243+34.32
HUTCHINS
SEAGOVILLE
SAND BRANCH
CRANDALL
KAUFMAN
75
635
30
80
20
45
175

KAUFMAN COUNTY, TEXAS



TXDOT DALLAS DISTRICT
TEXAS COUNTY MAP
N.T.S.

PAUL R. HAHN III
107365
12/08/2023

Paul R. Hahn

December 8, 2023

ROLL NUMBER	14/31

AGUIRRE & FIELDS
ENGINEERING INNOVATORS
FIRM REGISTRATION #739

LEGEND

— · · — · · —	EXISTING ROW
— — — —	EXISTING EASEMENT
———	EXISTING PROPERTY LIMITS
═ · · ═	EXISTING CULVERT
═ · · ═	EXISTING STORM SEWER
▭	FEMA 100 YR FLOODPLAIN LIMITS
☒	WETLANDS
———	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
— - — - —	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
▬	EXISTING BRIDGE TO REMAIN
🟫	PROPOSED CONCRETE BRIDGE
▬	PROPOSED STEEL 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
⊥	PERPENDICULAR CURB RAMP
—o—o—	PROPOSED GUARDRAIL
⇨	EXISTING TRAFFIC FLOW
→	PROPOSED TRAFFIC FLOW
(200)	PARCEL ID

NOTES:

1. EXISTING FEATURES AND EXISTING ROW BASED ON LIMITED FIELD SURVEY. NO BOUNDARY SURVEY WAS PERFORMED. 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 05-15-2023.
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 (UNLESS NOTED OTHERWISE).
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. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL AND IS LINEAR (UNLESS NOTED OTHERWISE). SUPERELEVATION 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) IN PROGRESS.
11. EXISTING CULVERT LOCATIONS, SIZES, 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.
17. FUTURE SIGNAL POLE FOUNDATIONS LOCATED WITHIN CLOSE PROXIMITY TO RETAINING WALLS IN THIS PROJECT WILL NEED TO BE INCORPORATED INTO THE RETAINING WALL DESIGNS DURING PS&E.

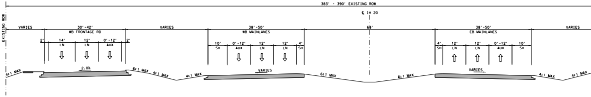
PRELIMINARY,
NOT FOR CONSTRUCTION

50' 0 50' 100'
HORIZONTAL
1":100'

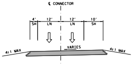
5' 0 5' 10'
VERTICAL
1":10'

GRAPHIC SCALE IN FEET

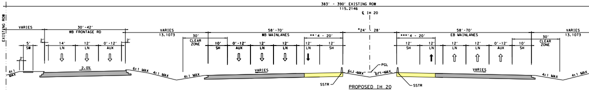
TYPICAL SECTIONS [N.T.S.]


383' - 390' EXISTING ROW
℄ IH 20
EXISTING ROW
VARIES
30'-42'
WB FRONTAGE RD
2'
14'
LN
12'
LN
0'-12'
AUX
2.0%
4:1 MAX
6:1 MAX
38'-50'
WB MAINLANES
10'
SH
4'
68'
EB MAINLANES
VARIES

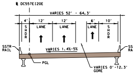
EXISTING IH 20
STA 1150+00 TO STA 1211+00


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

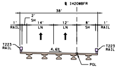
EXISTING IH 20 CONNECTOR


383' - 390' EXISTING ROW
115.2146
℄ IH 20
EXISTING ROW
VARIES
13.1073
30'-42'
WB FRONTAGE RD
5'
SW
2'
14'
LN
12'
0'-12'
AUX
2.0%
30'
CLEAR ZONE
58'-70'
WB MAINLANES
10'
SH
**'4 - 20'
*24'
28'
***'4 - 20'
EB MAINLANES
PGL
SSTR
4:1 MAX
6:1 MAX

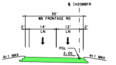
PROPOSED IH 20
STA 1150+00 TO STA 1243+34.32
* STA 1150+00 TO STA 1243+34.32
** STA 1150+00 TO STA 1200+33.89
*** STA 1151+43.23 TO STA 1243+34.34


℄ DC557EI20E
VARIES 52' - 64.3'
4'
SHDR
12'
LANE
6'
10'
SSTR RAIL
VARIES 1.4%-5%
PGL
VARIES 0'-12.3'
GORE

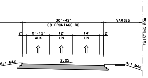
PROPOSED SP 557 EB TO IH 20 EB
STA 32+52.05 TO STA 42+27.05
SHOWING TX-54 SPANS

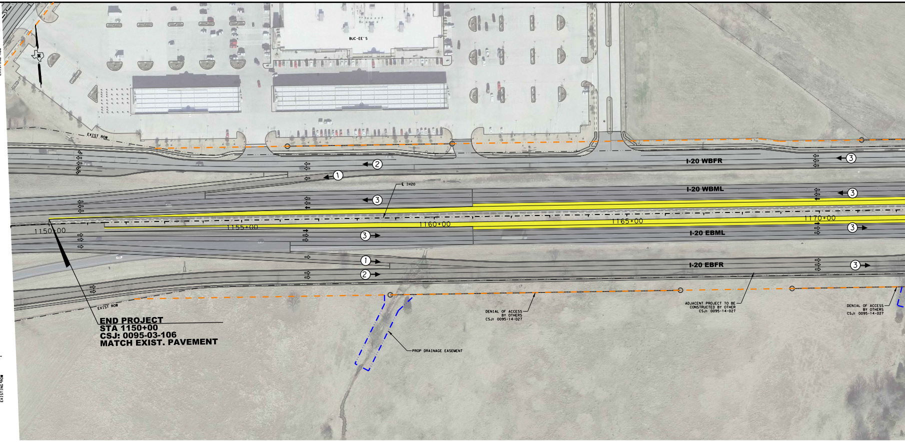

℄ IH20WBFR
38'
2'
SH
1'
RAIL
14'
LN
12'
8'
T223 RAIL
4.6%
PGL

PROPOSED EXIT RAMP IH-20 WBFR AT DC120W557W
STA 29+02.00 TO STA 33+11.00

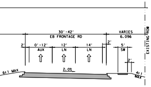

℄ IH20WBFR
30'
WB FRONTAGE RD
2'
14'
LN
12'
PGL
2.0%
4:1 MAX

PROPOSED IH 20 WB FRONTAGE RD CONNECTOR
STA 10+00 TO STA 29+02
STA 33+11 TO STA 38+47


30'-42'
EB FRONTAGE RD
VARIES
2'
0'-12'
AUX
12'
LN
14'
LN
2'
2.0%
6:1 MAX
4:1 MAX
EXISTING ROW

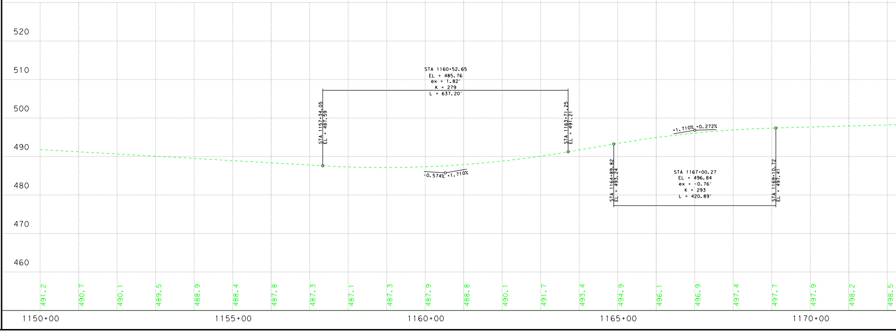

BUC-EE'S
EXIST ROW
I-20 WBFR
I-20 WBML
I-20 EBML
I-20 EBFR
℄ IH20
①
②
③
1150+00
1155+00
1160+00
1165+00
1170+00
EXIST ROW
DENIAL OF ACCESS
BY OTHERS
CSJ: 0095-14-027
ADJACENT PROJECT TO BE
CONSTRUCTED BY OTHER
CSJ: 0095-14-027
DENIAL OF ACCESS
BY OTHERS
CSJ: 0095-14-027
PROP DRAINAGE EASEMENT

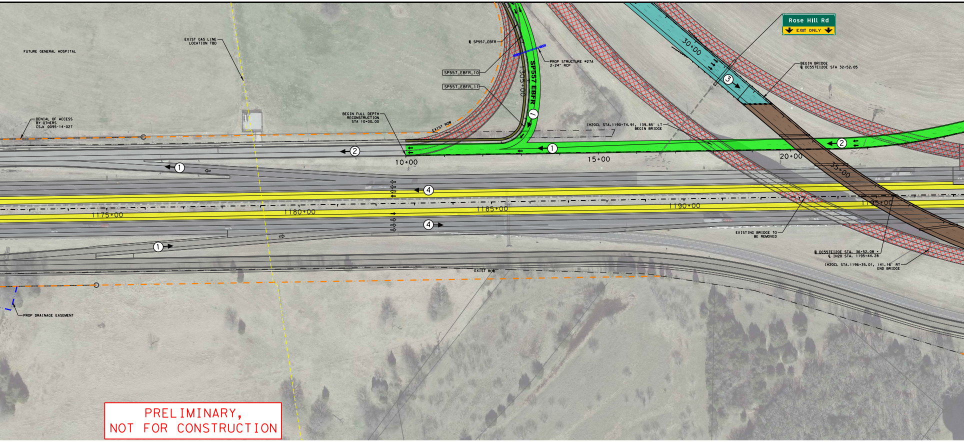
END PROJECT
STA 1150+00
CSJ: 0095-03-106
MATCH EXIST. PAVEMENT


30'-42'
EB FRONTAGE RD
VARIES
6.096
2'
0'-12'
AUX
12'
LN
14'
LN
2'
5'
SW
2'
2.0%
6:1 MAX
4:1 MAX
EXISTING ROW

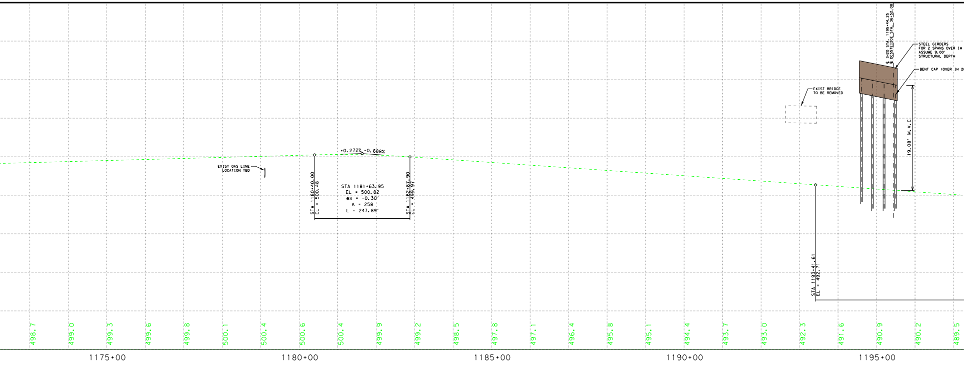
IH 20 - EXIST IH 20 MAIN LANES (70 MPH)

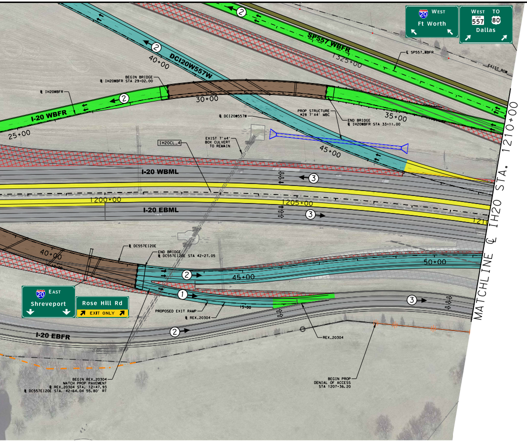
NOTE:
ADJACENT PROJECT TO BE
CONSTRUCTED BY OTHERS
CSJ: 0495-01-071




FUTURE GENERAL HOSPITAL
EXIST GAS LINE LOCATION TBD
DENIAL OF ACCESS BY OTHERS CSJ: 0095-14-027
BEGIN FULL DEPTH RECONSTRUCTION STA 10+00.00
℄ SP557_EBFR
SP557_EBFR_10
SP557_EBFR_11
PROP STRUCTURE #27A 2-24" RCP
SP557 EBFR
1305+00
EXIST ROW
IH20CL STA.1190+74.91, 139.85' LT BEGIN BRIDGE
Rose Hill Rd
EXIT ONLY
BEGIN BRIDGE ℄ DC557E120E STA 32+52.05
30+00
35+00
10+00
15+00
20+00
①
②
③
④
1175+00
1180+00
1185+00
1190+00
1195+00
EXISTING BRIDGE TO BE REMOVED
℄ DC557E120E STA. 36+52.08 = ℄ IH20 STA. 1195+44.28
IH20CL STA.1196+35.01, 141.16' RT END BRIDGE
EXIST ROW
PROP DRAINAGE EASEMENT

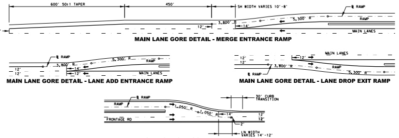
PRELIMINARY,
NOT FOR CONSTRUCTION


EXIST GAS LINE LOCATION TBD
+0.272%
-0.688%
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
EXIST BRIDGE TO BE REMOVED
℄ IH20 STA. 1195+44.25
℄ DC557E120E STA. 36+52.08
STEEL GIRDERS FOR 2 SPANS OVER IH
ASSUME 9.00' STRUCTURAL DEPTH
BENT CAP (OVER IH 2
19.08' M.V.C
STA 1193+41.61
EL = 492.71
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
489.5
1175+00
1180+00
1185+00
1190+00
1195+00


West
20
Ft Worth
West TO
557 80
Dallas
SP557_WBFR
1325+00
℄ SP557_WBFR
EXIST ROW
DCI20W557W
40+00
BEGIN BRIDGE
℄ IH20WBFR STA 29+02.00
℄ IH20WBFR
I-20 WBFR
25+00
30+00
35+00
PROP STRUCTURE
#28 7'X4' MBC
END BRIDGE
℄ IH20WBFR STA 33+11.00
℄ DCI20W557W
IH20CL_4
EXIST 7'x4'
BOX CULVERT
TO REMAIN
45+00
I-20 WBML
1200+00
1205+00
I-20 EBML
121
MATCHLINE ℄ IH20 STA. 1210+00
40+00
℄ DC557EI20E
END BRIDGE
℄ DC557EI20E STA 42+27.05
45+00
50+00
20 East
Shreveport
Rose Hill Rd
EXIT ONLY
PROPOSED EXIT RAMP
℄ REX_20304
15+00
I-20 EBFR
REX_20304
BEGIN REX_20304
MATCH PROP PAVEMENT
℄ REX_20304 STA. 12+47.93
℄ DC557EI20E STA. 42+64.04 55.80' RT
BEGIN PROP
DENIAL OF ACCESS
STA 1207+36.20
1
2
3

HORIZONTAL ALIGNMENT DATA							
BASELINE	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	TANGENT
IH20CL	IH20CL_4	1211+83.20	N6,950,534.8846	E2,644,160.0148	21° 54′ 10.9530" (RT)	5,729.58	1,108.6

RAMP GORE DETAILS [N.T.S.]


600' 50:1 TAPER
450'
SH WIDTH VARIES 10'-8'
℄ RAMP
5,300' R
3,800' R
RAMP
12'
14'
MAIN LANES
30' CURB TRANSITION
1,050' R
FRONTAGE RD
2'
LN WIDTH VARIES 14'-12'

MAIN LANE GORE DETAIL - MERGE ENTRANCE RAMP

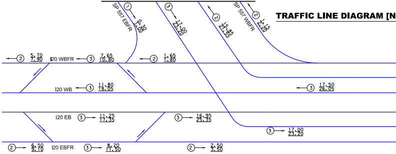
MAIN LANE GORE DETAIL - LANE ADD ENTRANCE RAMP

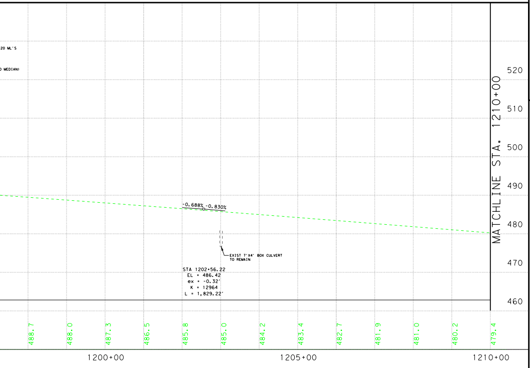
MAIN LANE GORE DETAIL - LANE DROP EXIT RAMP

FRONTAGE ROAD GORE DETAIL

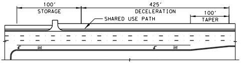
MATCHLINE - SEE ROLL 13

TRAFFIC LINE DIAGRAM [N


SP 557 EBFR
① 0.30 / 1.00
③ 17.00 / 23.20
② 15.85 / 21.55
SP 557 WBFR
② 1.15 / 2.20
② 5.70 / 7.90
I20 WBFR
③ 7.65 / 10.80
② 1.65 / 1.80
I20 WB
③ 11.80 / 18.05
③ 17.50 / 26.05
I20 EB
③ 11.25 / 17.35
③ 16.95 / 25.35
③ 17.00 / 23.20
② 6.50 / 9.10
I20 EBFR
③ 8.20 / 11.50
② 2.50 / 3.50

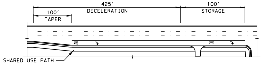


T	LENGTH	P.C. STATION	P.T. STATION
9	2,190.00	1200+74.51	1222+64.81



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

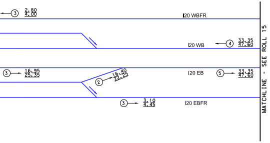
LEFT-TURN BAY DETAIL (TYPICAL)



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

RIGHT-TURN BAY DETAIL (TYPICAL)

.T.S.]



3
2.80
4.00
I20 WBFR
I20 WB
4
33.35
47.60
3
16.95
25.35
2
16.40
22.25
I20 EB
5
33.35
47.60
3
3.10
4.45
I20 EBFR
MATCHLINE - SEE ROLL 15

LEGEND

—	PROPOSED WORK BY OTHERS	■	EXISTING BRIDGE	ⓧ	NUMBER OF TRAVEL LANES
—	STREAM	□	PROPOSED BRIDGE BY OTHERS	X.X	YEAR (2028) ADT
┼┼┼	UNION PACIFIC RAILROAD	●	SIGNALIZED INTERSECTIONS	$\overline{X.X}$	YEAR (2048) ADT
					VOLUME X 1000

© 2023 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

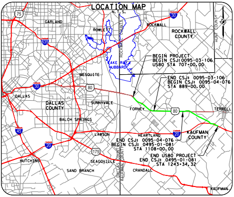
US 80
100% DESIGN SCHEMATIC

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

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. 872+00
ROLL 4 OF 31:	PLAN & PROFILE STA. 872+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 (1 OF 2)
ROLL 15 OF 31:	PLAN & PROFILE I-20 INTERCHANGE (2 OF 2)
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 EB AND WB 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



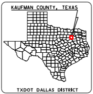
LOCATION MAP
N.T.S.
75
GARLAND
ROWLETT
635
30
ROCKWALL
ROCKWALL COUNTY
HUNT COUNTY
ROCKWALL COUNTY
LAKE RAY HUBBARD
MESQUITE
80
DALLAS
DALLAS COUNTY
SUNNYVALE
FORNEY
TERRELL
BALCH SPRINGS
45
LAWSON
HEARTLAND
20
KAUFMAN COUNTY
175
HUTCHINS
SEAGOVILLE
SAND BRANCH
CRANDALL
DALLAS COUNTY
KAUFMAN COUNTY
KAUFMAN

BEGIN PROJECT
BEGIN CSJ:0095-03-106
US80 STA 707+00.00

END CSJ: 0095-03-106
BEGIN CSJ: 0095-04-076
STA 889+00.00

END CSJ: 0095-04-076
BEGIN CSJ: 0495-01-081
STA 1108+00.00

END US80 PROJECT
END CSJ: 0495-01-081
STA 1243+34.32



KAUFMAN COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

December 8, 2023

ROLL NUMBER 14/31

AGUIRRE & FIELDS
ENGINEERING INNOVATORS
FIRM REGISTRATION #739