

HORIZONTAL ALIGNMENT DATA
(ALIGNMENT DATA NOT SHOWN ON PLAN SHEETS)

SB FRONTAGE ROAD

PI STATION = 49+637.70
X = 775333.29
Y = 2128668.74

ELEMENT: LINEAR
PT STATION = 49+637.70
BEARING = S 8°29'14.1" E
PC STATION = 49+703.45

ELEMENT: CIRCULAR
PI STATION = 49+726.65
X = 775346.40
Y = 2128580.76
DELTA = 3°07'37.4"
LENGTH = 46.39
TANGENT = 23.2
RADIUS = 850.00
PC STATION = 49+703.45
PT STATION = 49+749.84

ELEMENT: LINEAR
PT STATION = 49+749.84
BEARING = S 1°38'08.8" E
PC STATION = 49+799.03

ELEMENT: CIRCULAR
PI STATION = 49+825.42
X = 775366.26
Y = 2128484.00
DELTA = 3°33'24.1"
LENGTH = 52.76
TANGENT = 26.59
RADIUS = 850.00
PC STATION = 49+799.03
PT STATION = 49+851.79

ELEMENT: LINEAR
PT STATION = 49+851.79
BEARING = S 8°02'44.7" E
PC STATION = 50+073.93

ELEMENT: CIRCULAR
PI STATION = 50+103.48
X = 775405.18
Y = 2128208.66
DELTA = 3°58'54.8"
LENGTH = 59.07
TANGENT = 29.55
RADIUS = 850.00
PC STATION = 50+073.93
PT STATION = 50+133.00

ELEMENT: LINEAR
PT STATION = 50+133.00
BEARING = S 12°01'39.5" E
PC STATION = 50+332.58

ELEMENT: CIRCULAR
PI STATION = 50+417.29
X = 775470.58
Y = 2127901.71
DELTA = 29°17'03.5"
LENGTH = 166.11
TANGENT = 84.91
RADIUS = 325.00
PC STATION = 50+332.58
PT STATION = 50+498.49

ELEMENT: CIRCULAR
PI STATION = 50+550.07
X = 775430.09
Y = 2127773.36
DELTA = 23°18'54.4"
LENGTH = 101.73
TANGENT = 51.59
RADIUS = 250.00
PC STATION = 50+498.49
PT STATION = 50+600.22

ELEMENT: LINEAR
PT STATION = 50+600.22
BEARING = S 6°03'30.4" E
PC STATION = 50+820.73

ELEMENT: CIRCULAR
PI STATION = 50+671.41
X = 775443.05
Y = 2127649.29
DELTA = 22°55'12.9"
LENGTH = 100.01
TANGENT = 50.68
RADIUS = 250.00
PC STATION = 50+820.73
PT STATION = 50+720.73

ELEMENT: CIRCULAR
PI STATION = 50+782.58
X = 775497.56
Y = 2127550.85
DELTA = 20°02'25.1"
LENGTH = 122.42
TANGENT = 61.84
RADIUS = 350.00
PC STATION = 50+720.73
PT STATION = 50+843.15

ELEMENT: LINEAR
PT STATION = 50+843.15
BEARING = S 8°56'18.5" E
PC STATION = 50+879.43

SB FRONTAGE ROAD CONTINUED

ELEMENT: CIRCULAR
PI STATION = 50+887.66
X = 775514.09
Y = 2127445.80
DELTA = 1°06'32.0"
LENGTH = 16.45
TANGENT = 8.23
RADIUS = 850.00
PC STATION = 50+879.43
PT STATION = 50+895.88

ELEMENT: LINEAR
PT STATION = 50+895.88
BEARING = S 7°49'46.5" E
PC STATION = 51+53.12

ELEMENT: CIRCULAR
PI STATION = 51+53.12
X = 775550.25
Y = 2127182.81

NB FRONTAGE ROAD

PI STATION = 49+691.17
X = 775468.32
Y = 2128633.78

ELEMENT: LINEAR
PT STATION = 49+691.17
BEARING = S 9°10'45.9" E
PC STATION = 49+600.93

ELEMENT: CIRCULAR
PI STATION = 49+680.25
X = 775488.49
Y = 2128510.33
DELTA = 2°03'57.0"
LENGTH = 30.65
TANGENT = 15.33
RADIUS = 850.00
PC STATION = 49+600.93
PT STATION = 49+831.58

ELEMENT: LINEAR
PT STATION = 49+831.58
BEARING = S 7°49'46.5" E
PC STATION = 51+53.12

NB FRONTAGE ROAD CONTINUED

ELEMENT: CIRCULAR
PI STATION = 50+717.87
X = 775630.59
Y = 2127631.52
DELTA = 5°14'51.9"
LENGTH = 22.90
TANGENT = 11.46
RADIUS = 250.00
PC STATION = 50+729.31
PT STATION = 50+729.31

ELEMENT: LINEAR
PT STATION = 50+729.31
BEARING = S 3°55'13.8" W
PC STATION = 50+742.81

ELEMENT: CIRCULAR
PI STATION = 50+766.57
X = 775630.99
Y = 2127583.46
DELTA = 10°51'29.3"
LENGTH = 47.58
TANGENT = 23.76
RADIUS = 250.00
PC STATION = 50+742.81
PT STATION = 50+790.19

ELEMENT: LINEAR
PT STATION = 50+790.19
BEARING = S 7°16'15.5" E
PC STATION = 50+889.60

ELEMENT: CIRCULAR
PI STATION = 50+914.95
X = 775645.30
Y = 2127435.69
DELTA = 3°24'57.1"
LENGTH = 50.60
TANGENT = 25.30
RADIUS = 850.00
PC STATION = 50+889.60
PT STATION = 50+940.27

ELEMENT: LINEAR
PT STATION = 50+940.27
BEARING = S 3°51'18.4" E
PC STATION = 50+975.54

ELEMENT: CIRCULAR
PI STATION = 51+007.01
X = 775653.81
Y = 2127344.05
DELTA = 4°14'28.2"
LENGTH = 62.92
TANGENT = 31.47
RADIUS = 850.00
PC STATION = 50+975.54
PT STATION = 51+038.46

ELEMENT: LINEAR
PT STATION = 51+038.46
BEARING = S 8°05'46.6" E
PC STATION = 51+52.37

ELEMENT: CIRCULAR
PI STATION = 51+52.37
X = 775671.97
Y = 2127199.88

RAMP N-TC

PI STATION = 10+000.00
X = 775363.60
Y = 2128693.74

ELEMENT: CIRCULAR
PI STATION = 10+045.89
X = 775389.98
Y = 2128592.05
DELTA = 6°10'49.5"
LENGTH = 91.89
TANGENT = 45.89
RADIUS = 850.00
PC STATION = 10+000.00
PT STATION = 10+091.69

ELEMENT: LINEAR
PT STATION = 10+091.69
BEARING = S 3°55'13.8" W
PC STATION = 10+091.69

ELEMENT: CIRCULAR
PI STATION = 10+077.66
X = 775391.93
Y = 2128530.02
DELTA = 2°10'49.2"
LENGTH = 32.35
TANGENT = 16.17
RADIUS = 850.00
PC STATION = 10+091.69
PT STATION = 10+124.03

ELEMENT: LINEAR
PT STATION = 10+124.03
BEARING = S 3°58'55.1" E
PC STATION = 10+239.81

ELEMENT: CIRCULAR
PI STATION = 10+264.10
X = 775402.78
Y = 2128374.15
DELTA = 3°18'04.0"
LENGTH = 48.97
TANGENT = 24.49
RADIUS = 850.00
PC STATION = 10+239.81
PT STATION = 10+288.58

ELEMENT: LINEAR
PT STATION = 10+288.58
BEARING = S 0°40'51.2" E
PC STATION = 10+306.37

ELEMENT: CIRCULAR
PI STATION = 10+390.81
X = 775404.26
Y = 2128247.44
DELTA = 1°20'48.2"
LENGTH = 84.44
TANGENT = 42.22
RADIUS = 850.00
PC STATION = 10+306.37
PT STATION = 10+474.70

ELEMENT: LINEAR
PT STATION = 10+474.70
BEARING = S 7°52'18.8" E
PC STATION = 10+474.70

RAMP N-TE

PI STATION = 10+000.00
X = 775324.41
Y = 2128693.75

ELEMENT: CIRCULAR
PI STATION = 10+038.96
X = 775329.58
Y = 2128595.48
DELTA = 5°14'54.4"
LENGTH = 77.86
TANGENT = 38.96
RADIUS = 850.00
PC STATION = 10+000.00
PT STATION = 10+077.86

ELEMENT: LINEAR
PT STATION = 10+077.86
BEARING = S 2°48'59.3" E
PC STATION = 10+138.30

ELEMENT: CIRCULAR
PI STATION = 10+173.60
X = 775336.20
Y = 2128920.85
DELTA = 4°45'22.4"
LENGTH = 70.56
TANGENT = 35.30
RADIUS = 850.00
PC STATION = 10+138.30
PT STATION = 10+208.86

ELEMENT: LINEAR
PT STATION = 10+208.86
BEARING = S 1°56'23.0" W
PC STATION = 10+226.66

ELEMENT: CIRCULAR
PI STATION = 10+226.66
X = 775332.24
Y = 2128709.31
DELTA = 10°24'54.4"
LENGTH = 81.80
TANGENT = 41.01
RADIUS = 850.00
PC STATION = 10+226.66
PT STATION = 10+344.08

ELEMENT: LINEAR
PT STATION = 10+344.08
BEARING = S 1°56'23.0" W
PC STATION = 10+344.08

ELEMENT: CIRCULAR
PI STATION = 10+385.09
X = 775327.24
Y = 2128709.31
DELTA = 10°24'54.4"
LENGTH = 81.80
TANGENT = 41.01
RADIUS = 850.00
PC STATION = 10+344.08
PT STATION = 10+425.88

ELEMENT: LINEAR
PT STATION = 10+425.88
BEARING = S 1°56'23.0" W
PC STATION = 10+440.80

RAMP TE-S

PI STATION = 10+000.00
X = 775569.04
Y = 2127955.06

ELEMENT: CIRCULAR
PI STATION = 10+028.83
X = 775468.34
Y = 2127926.43
DELTA = 3°53'05.8"
LENGTH = 57.83
TANGENT = 28.83
RADIUS = 850.00
PC STATION = 10+000.00
PT STATION = 10+057.63

ELEMENT: LINEAR
PT STATION = 10+057.63
BEARING = S 10°27'31.1" E
PC STATION = 10+126.95

ELEMENT: CIRCULAR
PI STATION = 10+231.80
X = 775505.07
Y = 2127727.43
DELTA = 1°54'57.7"
LENGTH = 28.42
TANGENT = 14.21
RADIUS = 850.00
PC STATION = 10+126.95
PT STATION = 10+245.37

ELEMENT: CIRCULAR
PI STATION = 10+269.46
X = 775513.26
Y = 2127690.02
DELTA = 3°14'49.0"
LENGTH = 48.17
TANGENT = 24.09
RADIUS = 850.00
PC STATION = 10+245.37
PT STATION = 10+293.54

ELEMENT: LINEAR
PT STATION = 10+293.54
BEARING = S 9°07'39.8" E
PC STATION = 10+344.08

ELEMENT: CIRCULAR
PI STATION = 10+408.94
X = 775568.82
Y = 2127556.60

RAMP N-EB US80

PI STATION = 10+000.00
X = 775575.45
Y = 2127336.10

ELEMENT: CIRCULAR
PI STATION = 10+039.08
X = 775575.45
Y = 2127297.41
DELTA = 5°45'45.4"
LENGTH = 78.07
TANGENT = 39.06
RADIUS = 850.00
PC STATION = 10+000.00
PT STATION = 10+078.07

ELEMENT: LINEAR
PT STATION = 10+078.07
BEARING = S 2°43'10.0" E
PC STATION = 10+180.61

ELEMENT: CIRCULAR
PI STATION = 10+247.43
X = 775585.02
Y = 2127089.52
DELTA = 7°38'30.4"
LENGTH = 12.87
TANGENT = 6.44
RADIUS = 850.00
PC STATION = 10+180.61
PT STATION = 10+303.49

ELEMENT: LINEAR
PT STATION = 10+303.49
BEARING = S 4°53'20.4" W
PC STATION = 10+435.36

ELEMENT: CIRCULAR
PI STATION = 10+435.36
X = 775585.02
Y = 2126901.82

RAMP S-TE

PI STATION = 10+000.00
X = 775525.29
Y = 2128826.54

ELEMENT: CIRCULAR
PI STATION = 10+029.32
X = 775525.29
Y = 2128803.51
DELTA = 3°45'05.5"
LENGTH = 58.62
TANGENT = 29.32
RADIUS = 850.00
PC STATION = 10+000.00
PT STATION = 10+058.62

ELEMENT: LINEAR
PT STATION = 10+058.62
BEARING = S 1°44'37.1" E
PC STATION = 10+160.61

ELEMENT: CIRCULAR
PI STATION = 10+160.61
X = 775533.49
Y = 2127997.78
DELTA = 3°34'40.8"
LENGTH = 53.08
TANGENT = 26.55
RADIUS = 850.00
PC STATION = 10+160.61
PT STATION = 10+213.70

ELEMENT: LINEAR
PT STATION = 10+213.70
BEARING = S 7°44'37.1" E
PC STATION = 10+349.58

ELEMENT: CIRCULAR
PI STATION = 10+349.58
X = 775501.92
Y = 2128305.36
DELTA = 9°21'13.7"
LENGTH = 136.76
TANGENT = 69.53
RADIUS = 850.00
PC STATION = 10+349.58
PT STATION = 10+601.51

ELEMENT: LINEAR
PT STATION = 10+601.51
BEARING = S 13°15'15.8" E
PC STATION = 10+825.99

RAMP TC-N

PI STATION = 10+000.00
X = 775404.08
Y = 2128826.46

ELEMENT: LINEAR
PT STATION = 10+000.00
BEARING = S 9°07'39.8" E
PC STATION = 10+324.73

ELEMENT: CIRCULAR
PI STATION = 10+355.35
X = 775460.45
Y = 2128477.60
DELTA = 4°07'34.2"
LENGTH = 61.21
TANGENT = 30.62
RADIUS = 850.00
PC STATION = 10+324.73
PT STATION = 10+385.95

ELEMENT: LINEAR
PT STATION = 10+385.95
BEARING = S 13°15'15.8" E
PC STATION = 10+462.75

ELEMENT: CIRCULAR
PI STATION = 10+532.28
X = 775501.92
Y = 2128305.36
DELTA = 9°21'13.7"
LENGTH = 136.76
TANGENT = 69.53
RADIUS = 850.00
PC STATION = 10+462.75
PT STATION = 10+601.51

ELEMENT: LINEAR
PT STATION = 10+601.51
BEARING = S 13°15'15.8" E
PC STATION = 10+825.99

TOWN EAST BLVD

PI STATION = 10+000.00
X = 775210.34
Y = 2128724.21

ELEMENT: CIRCULAR
PI STATION = 10+019.33
X = 775227.76
Y = 2128715.84
DELTA = 4°25'37.6"
LENGTH = 38.63
TANGENT = 19.33
RADIUS = 500.00
PC STATION = 10+000.00
PT STATION = 10+038.63

ELEMENT: LINEAR
PT STATION = 10+038.63
BEARING = S 59°53'54.4" E
PC STATION = 10+120.87

ELEMENT: CIRCULAR
PI STATION = 10+227.05
X = 775407.49
Y = 2128611.65
DELTA = 49°13'08.6"
LENGTH = 203.57
TANGENT = 106.18
RADIUS = 290.00
PC STATION = 10+120.87
PT STATION = 10+324.44

ELEMENT: LINEAR
PT STATION = 10+324.44
BEARING = N 79°52'57.0" E
PC STATION = 10+440.00

ELEMENT: CIRCULAR
PI STATION = 10+440.00
X = 775625.78
Y = 2128650.80

RAMP TE-N

PI STATION = 10+000.00
X = 775319.43
Y = 2129218.64

ELEMENT: LINEAR
PT STATION = 10+000.00
BEARING = S 9°07'40.9" E
PC STATION = 10+315.13

ELEMENT: CIRCULAR
PI STATION = 10+381.33
X = 775409.87
Y = 2128842.14
DELTA = 9°10'25.9"
LENGTH = 136.10
TANGENT = 68.19
RADIUS = 850.00
PC STATION = 10+315.13
PT STATION = 10+449.23

ELEMENT: LINEAR
PT STATION = 10+449.23
BEARING = S 18°18'06.8" E
PC STATION = 10+520.43

ELEMENT: CIRCULAR
PI STATION = 10+534.64
X = 775458.10
Y = 2128696.31
DELTA = 9°10'25.9"
LENGTH = 28.34
TANGENT = 14.20
RADIUS = 180.00
PC STATION = 10+520.43
PT STATION = 10+548.78

ELEMENT: LINEAR
PT STATION = 10+548.78
BEARING = S 9°16'46.1" E
PC STATION = 10+597.94

ELEMENT: CIRCULAR
PI STATION = 10+597.94
X = 775468.32
Y = 2128633.78

TOWNE CENTRE

PI STATION = 9+960.00
X = 775319.43
Y = 2127667.61

ELEMENT: LINEAR
PT STATION = 9+960.00
BEARING = N 76°42'04.8" E
PC STATION = 10+082.00

ELEMENT: LINEAR
PT STATION = 10+082.00
BEARING = N 73°39'47.7" E
PC STATION = 10+288.32

ELEMENT: LINEAR
PT STATION = 10+288.32
BEARING = N 72°16'24.1" E
PC STATION = 10+344.32

ELEMENT: CIRCULAR
PI STATION = 10+360.67
X = 775705.06
Y = 2127775.74
DELTA = 9°29'54.5"
LENGTH = 32.63
TANGENT = 16.35
RADIUS = 220.00
PC STATION = 10+344.32
PT STATION = 10+376.95

ELEMENT: LINEAR
PT STATION = 10+376.95
BEARING = N 63°48'29.5" E
PC STATION = 10+401.76

ELEMENT: CIRCULAR
PI STATION = 10+401.76
X = 775741.97
Y = 2127793.92

By: Thomas D. O'Grady, P.E., 83355
HNTB CORPORATION
Date: JULY 2001
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ALL DIMENSIONS IN METERS

MESQUITE SECTION - DESIGN SCHEMATIC

HORIZONTAL ALIGNMENT DATA

SOUTH OF I.H. 30 TO U.S. 80

HNTB

DESIGN SPEED	DISTRICT ENGINEER	SCALE	DATE
110 KPH	JAY NELSON, P.E.	AS NOTED	JULY 2001
STATE DIST. NO.	COUNTY	CONT.	SECT. JOB SHEET
18	DALLAS	2374	02 098 5 OF 8

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