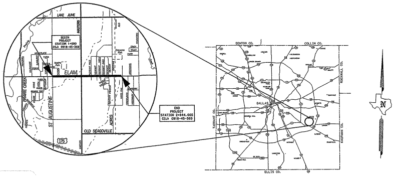
# TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
JAY R. NELSON, P.E.
DISTRICT ENGINEER

# DESIGN SCHEMATIC
# ELAM ROAD

FROM: ST. AUGUSTINE ROAD
TO: 110 m EAST OF ACRES DRIVE
CONTROL: 0918-45-369
URBAN MINOR ARTERIAL
DALLAS COUNTY
DESIGN SPEED = 60 km/h
PROJECT LENGTH = 1.84 km
SCALE: HORIZONTAL 1:500
ROLL 1 OF 2
JUNE 2001


LAKE JUNE
MASTERS
BEGIN PROJECT STATION 1+000 CSJ 0918-45-369
ELAM
PRAIRIE CREEK
ST. AUGUSTINE
ACRES
OLD SEAGOVILLE
175
END PROJECT STATION 2+844.605 CSJ 0918-45-369
DENTON CO.
COLLIN CO.
ROCKWALL CO.
KAUFMAN CO.
ELLIS CO.
TARRANT CO.
DALLAS

NOT A BIDDING DOCUMENT

ENGINEER ______________
P.E. NUMBER 82048
DATE 6/4/2001

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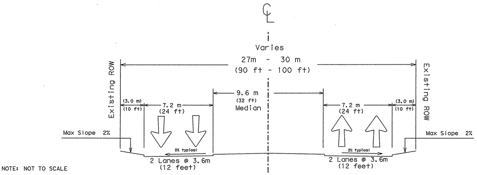
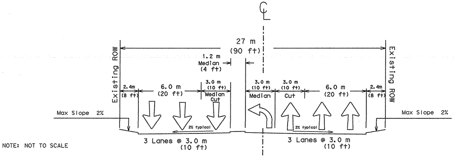
## Existing Typical Section


℄
Varies
27m - 30 m
(90 ft - 100 ft)
Existing ROW
(3.0 m)
(10 ft)
7.2 m
(24 ft)
9.6 m
(32 ft)
Median
7.2 m
(24 ft)
(3.0 m)
(10 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
2 Lanes @ 3.6m
(12 feet)
2 Lanes @ 3.6m
(12 feet)

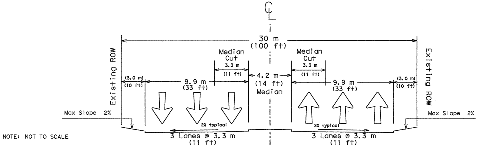
NOTE: NOT TO SCALE

## Proposed Typical Section from 1+000 to Station 1+080


℄
27 m
(90 ft)
1.2 m
Median
(4 ft)
Existing ROW
2.4m
(8 ft)
6.0 m
(20 ft)
3.0 m
(10 ft)
Median
Cut
3.0 m
(10 ft)
Median
3.0 m
(10 ft)
Cut
6.0 m
(20 ft)
2.4m
(8 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
3 Lanes @ 3.0 m
(10 ft)
3 Lanes @ 3.0 m
(10 ft)

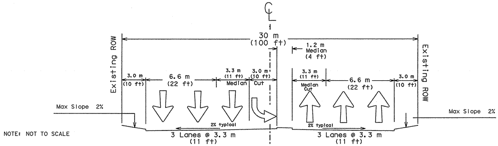
NOTE: NOT TO SCALE

## Proposed Typical Section For widening From Station 1+080 to Station 2+844.605


℄
30 m
(100 ft)
Existing ROW
Median
Cut
3.3 m
(11 ft)
4.2 m
(14 ft)
Median
Median
Cut
3.3 m
(11 ft)
(3.0 m)
(10 ft)
9.9 m
(33 ft)
9.9 m
(33 ft)
(3.0 m)
(10 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
3 Lanes @ 3.3 m
(11 ft)
3 Lanes @ 3.3 m
(11 ft)

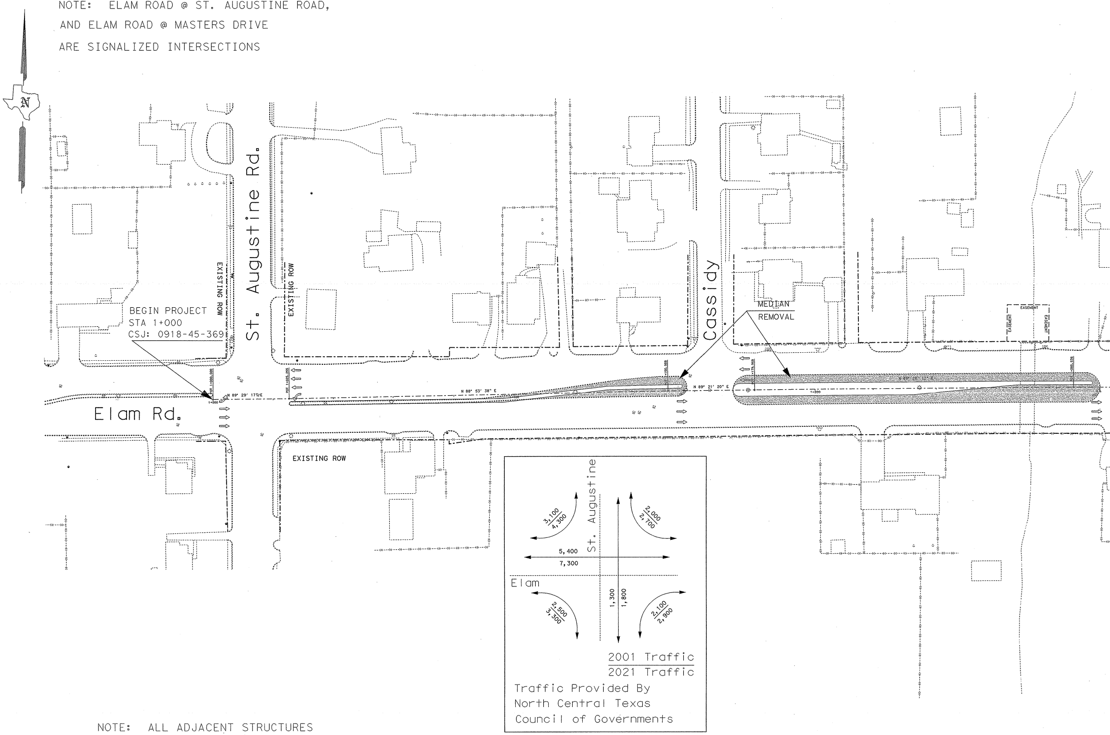
NOTE: NOT TO SCALE

## Proposed Typical Section For widening with left turn bay From Station 1+080 to Station 2+844.605


℄
30 m
(100 ft)
1.2 m
Median
(4 ft)
Existing ROW
3.0 m
(10 ft)
6.6 m
(22 ft)
3.3 m
(11 ft)
Median
3.0 m
(10 ft)
Cut
3.3 m
(11 ft)
Median
Cut
6.6 m
(22 ft)
3.0 m
(10 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
3 Lanes @ 3.3 m
(11 ft)
3 Lanes @ 3.3 m
(11 ft)

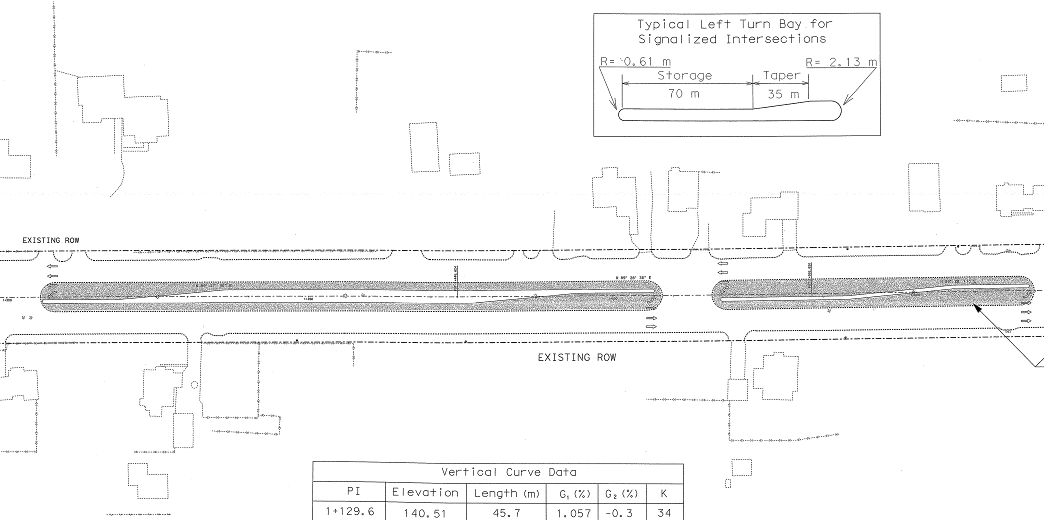
NOTE: NOT TO SCALE

NOTE: ELAM ROAD @ ST. AUGUSTINE ROAD,
AND ELAM ROAD @ MASTERS DRIVE
ARE SIGNALIZED INTERSECTIONS


N
St. Augustine Rd.
Cassidy
Elam Rd.
EXISTING ROW
EXISTING ROW
EXISTING ROW
BEGIN PROJECT
STA 1+000
CSJ: 0918-45-369
MEDIAN
REMOVAL
EASEMENT
EASEMENT
POT 1+000.000
1+000
N 89° 29' 17.5" E
POT 1+025.255
N 88° 53' 38" E
POT 1+150.988
N 89° 21' 20" E
POT 1+179.968
1+200
N 89° 28' 12" E
POT 1+285.536
St. Augustine
Elam
3,100 / 4,300
2,000 / 2,700
5,400
7,300
2,500 / 3,300
1,300
1,800
2,100 / 2,900
2001 Traffic
2021 Traffic

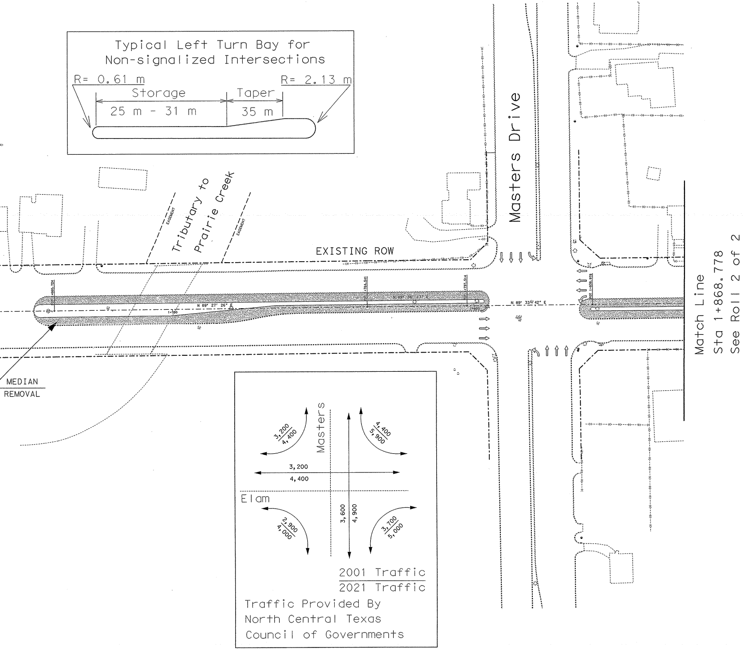
Traffic Provided By
North Central Texas
Council of Governments

NOTE: ALL ADJACENT STRUCTURES
SHOWN IN TOPO ARE RESIDENTIAL
UNLESS LABELED OTHERWISE


Typical Left Turn Bay for Signalized Intersections
R= 0.61 m
R= 2.13 m
Storage
70 m
Taper
35 m
EXISTING ROW
N 89° 28' 36" E
1+400
1+300
EXISTING ROW

| Vertical Curve Data | | | | | |
|---|---|---|---|---|---|
| PI | Elevation | Length (m) | $G_1$ (%) | $G_2$ (%) | K |
| 1+129.6 | 140.51 | 45.7 | 1.057 | -0.3 | 34 |
| 1+274.4 | 139.92 | 30.5 | -0.3 | 0.707 | 30 |
| 1+320.1 | 140.24 | 30.5 | 0.707 | -0.3 | 30 |
| 1+365.9 | 140.11 | No VC | -0.3 | 0.3 | 0 |
| 1+426.8 | 140.29 | No VC | 0.3 | -0.4 | 0 |
| 1+487.8 | 140.04 | No VC | -0.4 | 0.3 | 0 |
| 1+762.2 | 140.87 | No VC | 0.3 | 0.96 | 0 |
| 1+829.9 | 141.22 | No VC | 0.96 | 0.4 | 0 |

NOTE: ELAM ROAD @ ST. AUGUSTINE ROAD, AND ELAM ROAD @ MASTERS DRIVE ARE SIGNALIZED INTERSECTIONS


Typical Left Turn Bay for Non-signalized Intersections
R= 0.61 m
R= 2.13 m
Storage
25 m - 31 m
Taper
35 m
Masters Drive
Tributary to Prairie Creek
EASEMENT
EASEMENT
EXISTING ROW
N 89° 27' 26" E
1+700
1+800
+660.724
+764.541
+797.514
N 89° 36' 17" E
N 89° 33' 42" E
MEDIAN REMOVAL
Match Line
Sta 1+868.778
See Roll 2 of 2
Masters
Elam
3,200
4,400
4,400
5,900
3,200
4,400
2,900
4,000
3,600
4,900
3,700
5,000
2001 Traffic
2021 Traffic
Traffic Provided By North Central Texas Council of Governments

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DALLAS DISTRICT
JAY R. NELSON, P.E.
DISTRICT ENGINEER

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ELAM ROAD
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CONTROL: 0918-45-369
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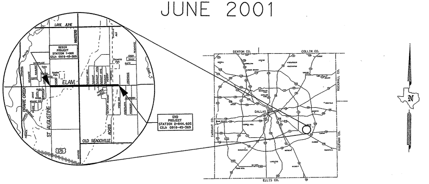
DALLAS COUNTY
DESIGN SPEED = 60 km/h
PROJECT LENGTH = 1.84 km
SCALE: HORIZONTAL 1:500
ROLL 1 OF 2
JUNE 2001


LAKE JUNE
MASTERS
BEGIN PROJECT STATION 1+000 CSJ: 0918-45-369
ELAM
ST AUGUSTINE
PRAIRE CREEK
ACRES
OLD SEAGOVILLE
175
END PROJECT STATION 2+844.605 CSJ: 0918-45-369
DENTON CO.
COLLIN CO.
ROCKWALL CO.
KAUFMAN CO.
TARRANT CO.
ELLIS CO.
DALLAS
N

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ENGINEER Bruce Wayne Nolley, P.E.
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