

TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
DESIGN SCHEMATIC
INTERSECTION IMPROVEMENTS

FM 1378 at FM 3286 Intersection Improvement

CSJ: 1392-01-044

FUNCTIONAL CLASS: MINOR ARTERIAL
DESIGN SPEED (FM 1378) = 45 MPH
DESIGN SPEED (FM 3286) = 45 MPH

LUCAS RD LENGTH = 0.585 MILES (3,087.37 LF)
SOUTHVIEW DR LENGTH = 0.302 MILES (1,595.02 LF)
TOTAL PROJECT LENGTH = 0.887 MILES (4,682.39 LF)

GRAYSON COUNTY

FANNIN COUNTY

HUNT COUNTY

DENTON COUNTY

DALLAS COUNTY

COLLIN COUNTY

TEXAS COUNTY MAP

PROJECT LOCATION

LOCATION MAPS NOT TO SCALE

ROLL 1 OF 1

PRELIMINARY

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TEXAS P.E. NO. 13387

DATE: 01/20/2020

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JACOBS

LEGEND

PROPOSED ROW

EXISTING ROW

PROPERTY LINES

CENTERLINE/BASELINE

FUTURE PROJECT BY OTHERS

DIRECTION OF TRAVEL

EXISTING EDGE OF PAVEMENT / DRIVEWAY

PROPOSED EDGE OF PAVEMENT

PROPOSED LANE TRANSITION LINE

PROPOSED PAVEMENT (CONCRETE W/CURBS)

PROPOSED PAVEMENT (ASPHALT TRANSITION)

PROPOSED FLUSH TRAVERSABLE MEDIAN

PROPOSED DRIVEWAY

PROPOSED SIDEWALK / WIDENED SIDEWALK

PROPOSED CULVERT

EXISTING CULVERT

PARCEL IDENTIFIER

100 YR. FLOODPLAIN

PROPOSED TRAFFIC SIGNAL

PROPOSED CROSSWALK

REMOVAL OF EXISTING PAVEMENT

REMOVAL OF EXISTING DRIVEWAY

REMOVAL HATCHING NOT SHOWN WITHIN SHADED PROPOSED PAVEMENT AREAS FOR CLARITY

NOTES

1) DUE TO THE CHANGE IN CONFIGURATION OF THE INTERSECTION FOR THIS PROJECT'S INTERSECTION IMPROVEMENTS, THE TYPICAL DIMENSIONS TO EXISTING ROW VARY CONSIDERABLY IN THE AREA CLOSEST TO THE EXISTING INTERSECTION AND THE CORRESPONDING ROW CORRELATION.

2) WHILE EVERY ATTEMPT HAS BEEN MADE TO LABEL THOSE DIMENSIONS TO EXISTING ROW, IN THE AREAS CLOSEST TO THE EXISTING INTERSECTION, DIMENSIONS BECOMES NOT APPLICABLE AS THE EXISTING CORRIDOR LIES COMPLETELY OUTSIDE THE PROPOSED CORRIDOR.

3) EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS.

4) DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB UNLESS OTHERWISE NOTED.

5) PROPERTY OWNERSHIP INFORMATION WAS OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT APRIL 2019 AND UPDATED WITH INFORMATION RECEIVED FROM TXDOT IN JANUARY 2020.

6) EXISTING SUBSURFACE UTILITY INFORMATION (SUE) IS NOT SHOWN AT THIS TIME.

7) ALL SIDEWALKS AND ACCESSIBLE RAMPS, IF SHOWN, ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED IN PS&E.

8) CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

9) CURBS ARE TY II UNLESS OTHERWISE NOTED.

10) EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DETAIL LIMITS SHOWN.

11) PIPES CROSSING UNDERNEATH DRIVEWAYS ARE NOT SHOWN FOR CLARITY.

12) EXISTING RIGHT-OF-WAY SHOWN ON SCHEMATIC IS PROVIDED BY TXDOT. ALL RIGHT-OF-WAY AND PROPERTY LINES TO BE FIELD SURVEYED DURING PS&E DESIGN PHASE.

13) 14' OUTER LANES FOR BICYCLE ACCOMMODATION ARE NOT INCLUDED ON LUCAS RD AND ON E LUCAS RD DUE TO THE PROPOSED 10' WIDENED SIDEWALK/PAVEMENT FACILITY.

14' OUTER LANES FOR BICYCLE ACCOMMODATION ARE SHOWN FOR SOUTHVIEW DRIVE WHERE THE CONCRETE PERMANENT CROSS SECTION IS PROPOSED.

12) MEDIAN OPENINGS, IF SHOWN, ARE PRELIMINARY AND SUBJECT TO CHANGE. MEDIAN OPENING LOCATIONS ARE TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH LOCAL GOVERNMENT.

TYPICAL SECTIONS

EXISTING FM 1387 (W. LUCAS RD.)

PROPOSED FM 1387 (W LUCAS RD) - STA 14+75.90 TO STA 21+49.31

EXISTING FM 3286 (E LUCAS RD.)

PROPOSED FM 3286 (E LUCAS RD) - STA 22+59.54 TO STA 26+55.95

PROPOSED FM 3286 (E LUCAS RD) - STA 26+55.95 TO STA 29+47.50

PROPOSED FM 3286 (E LUCAS RD) - STA 30+28.52 TO STA 35+31.19

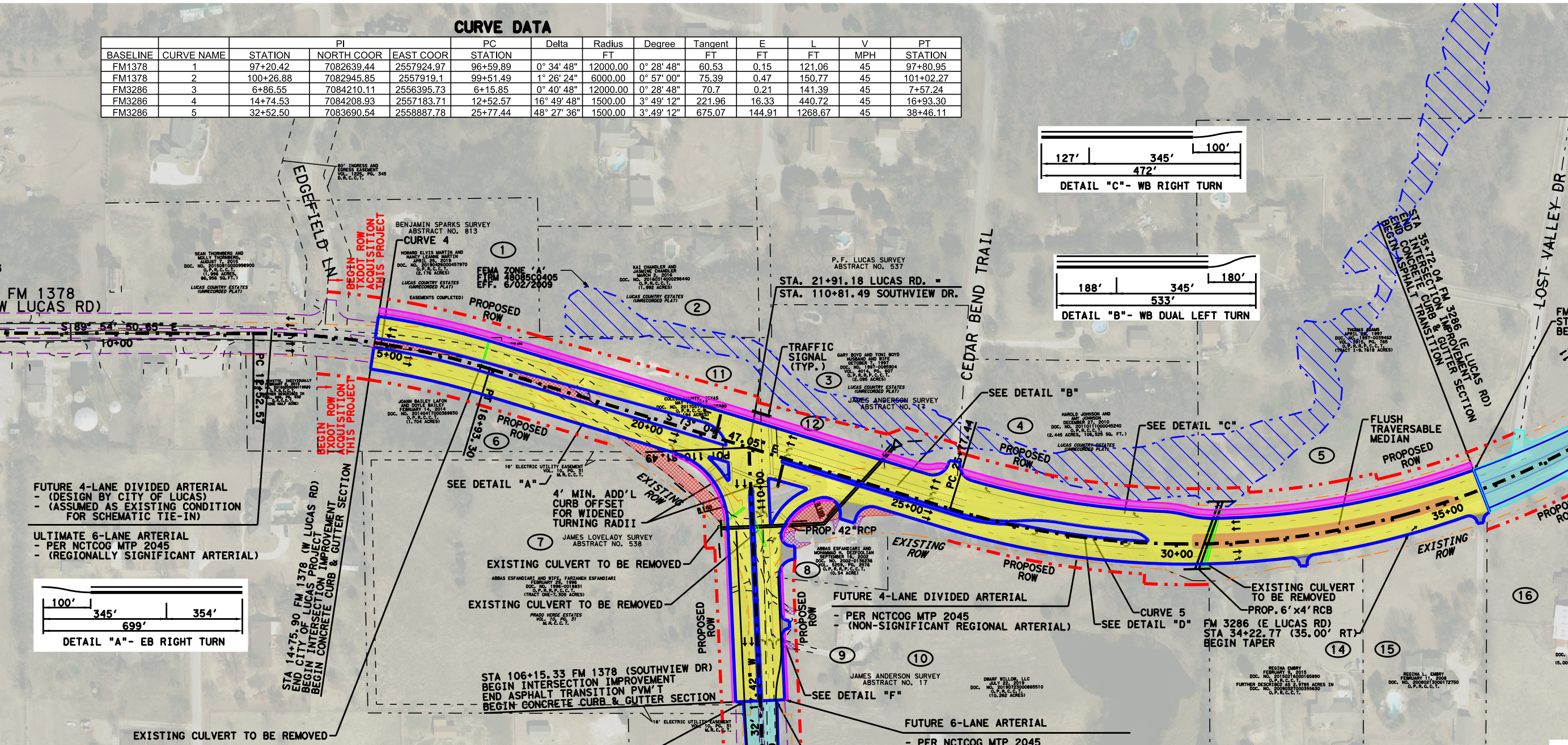
PROPOSED FM 3286 (E LUCAS RD) - STA 35+72.04 TO STA 45+63.27

EXISTING FM 1378 (SOUTHVIEW DR.)

PROPOSED FM 1378 (SOUTHVIEW DR.) - STA 106+15.33 TO STA 110+06.70

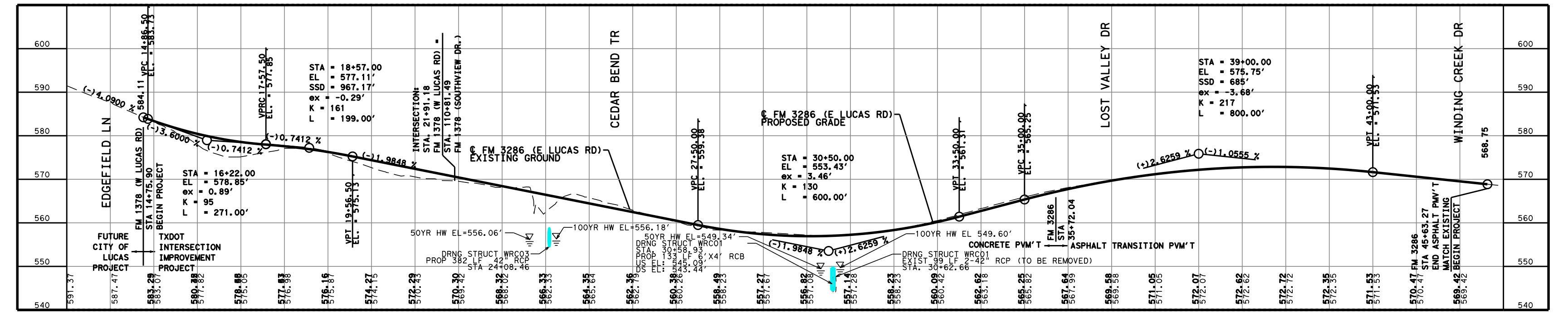
PROPOSED FM 1378 (SOUTHVIEW DR.) - STA 94+86.47 TO STA 106+15.33

PLAN LAYOUT

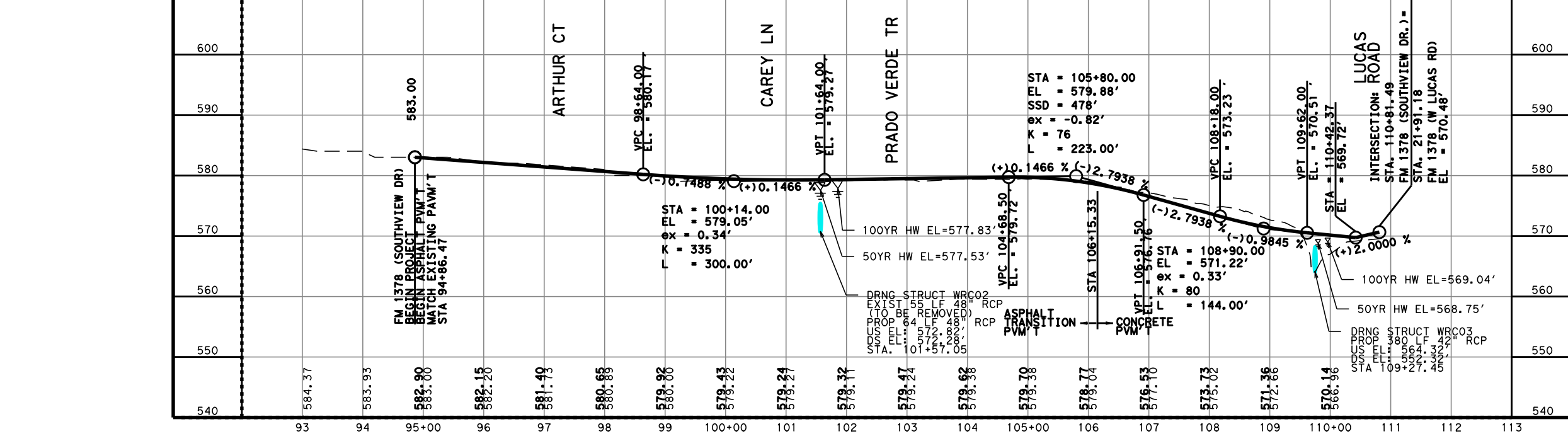


VERTICAL PROFILES

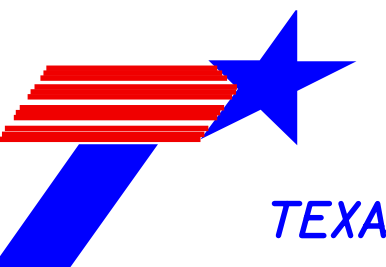
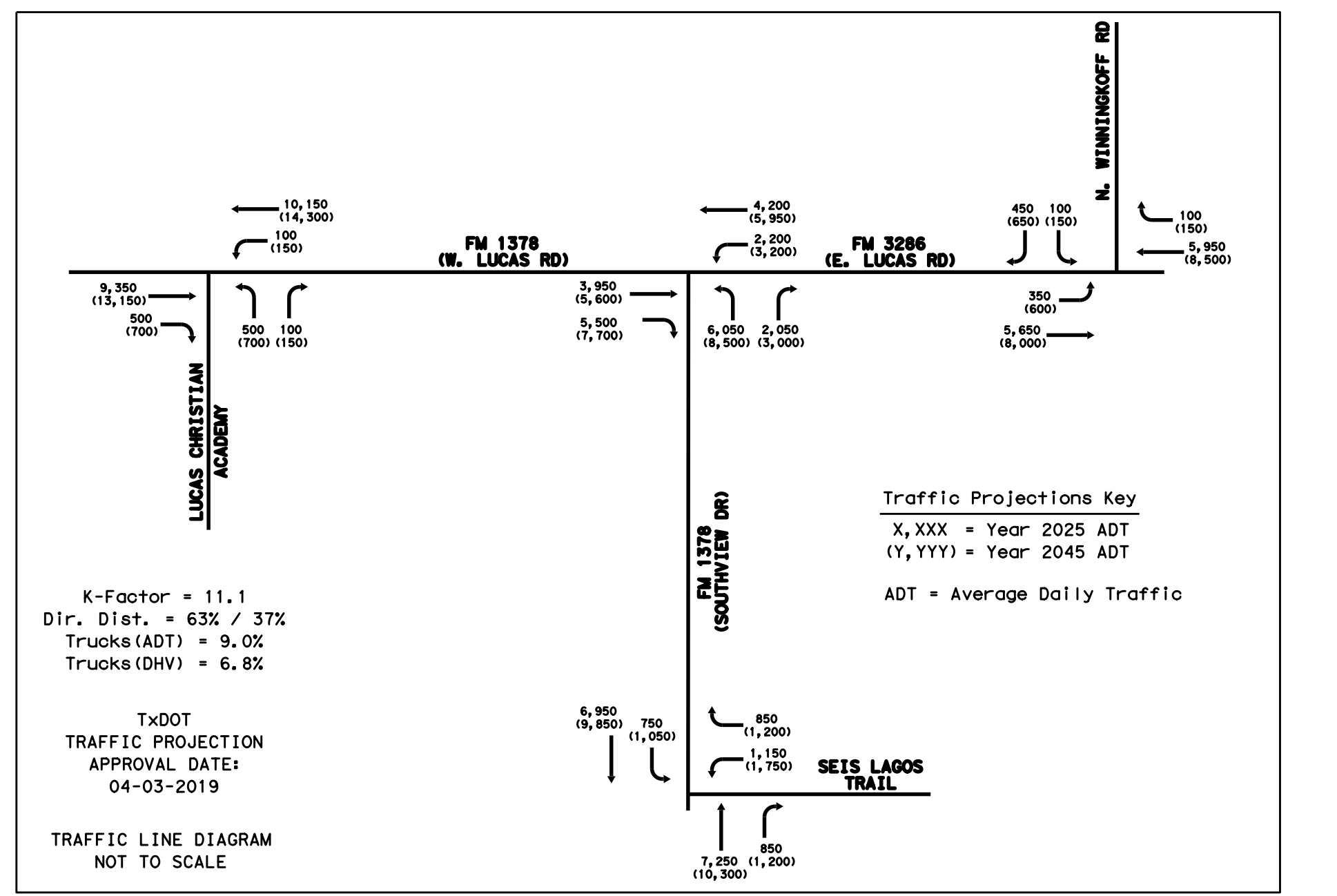
FM 1378 (W LUCAS RD) & FM 3286 (E LUCAS RD)



FM 1378 (SOUTHVIEW DR)



TRAFFIC PROJECTIONS



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