SCHEMATIC LAYOUT
ANGELINA COUNTY

FM 819

FROM DANIEL McCALL DRIVE
TO 0.64 MILES EAST

CSJ: 0176-03-085
STA LIMITS: 19+00.00 TO 52+60.00

Texas Department of Transportation © 2007
LUFKIN DISTRICT

DESIGN SPEED

MAIN LANES - 60 MPH - BASED ON URBAN FREEWAY (PRINCIPLE ARTERIAL)
RAMPS - 50 MPH - BASED ON DESIRABLE FREEWAY
FRONTAGE ROADS - 40 MPH - BASED ON DESIRABLE COLLECTOR
FM ROADS - 45 MPH - BASED ON DESIRABLE COLLECTOR

FM 819

2035 ADT - 5,800

ARCADIS
2710 South Medford Dr.
Lufkin, Texas 75901
Phone: (936) 632-9722
Fax: (936) 634-4116

KELLY O. MORRIS, P.E.
SERIAL NO. 88590

DATE

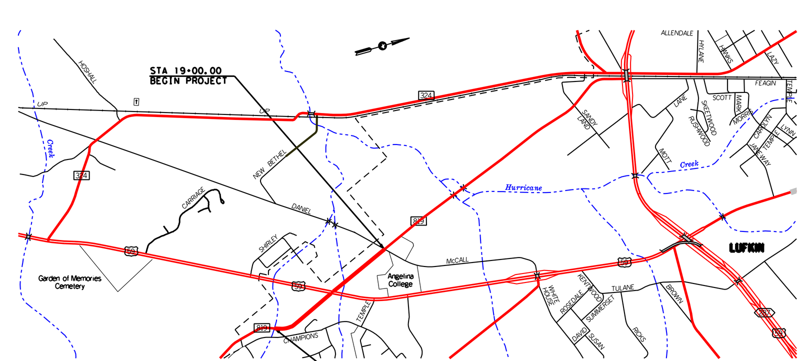
0 100 200
SCALE IN FEET

SCALE: 1" = 100' H 1" = 10' V

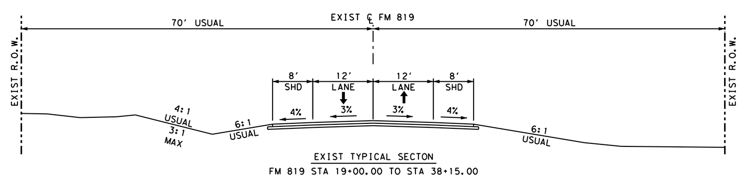
LEGEND

* REVISED FROM GEOPAK SYMBOLOGY

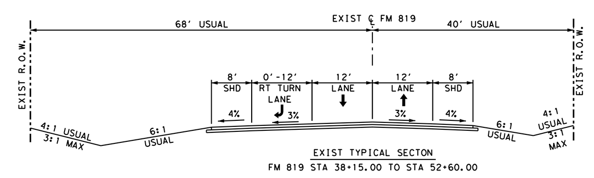
	SYMBOLOGY	LINE WEIGHT	COLOR CODE	
US 59 TRAVELWAY EDGE		3*	BLACK	0
US 59 PAVEMENT EDGE		3*	BLACK	0
FM 819 TRAVELWAY EDGE		3*	BLUE	1
FM 819 PAVEMENT EDGE		3*	BLUE	1
RAMP/CONNECTOR TRAVELWAY EDGE		3*	RED	3
RAMP/CONNECTOR PAVEMENT EDGE		3*	RED	3
ACCESS ROAD TRAVELWAY EDGE		3*	GREEN	2
ACCESS ROAD PAVEMENT EDGE		3*	GREEN	2
EXISTING & PROPOSED FM 819 CENTERLINE		3	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR		0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR		0	BLACK	0
PROPOSED ROW		7*	ORANGE	6
EXISTING ROW	*	3	GREEN	2
CONTROL OF ACCESS LINE	*	3	RED	3
PLANIMETRIC		1	GRAY	112
PIPELINE		2	TURQUOISE	7
PROPOSED BRIDGE		6	RED	3
PROPOSED PROFILE		2	BLUE	1
DRAINAGE FLOW DIRECTION		1	BLUE	1
PERMANENT DRAINAGE EASEMENTS		4	BLUE	1
TEMPORARY CONSTRUCTION EASEMENTS		4	RED	3
PROPERTY LINE		1	PURPLE	5
HIGH MAST POLE W/FIXTURE ORIENTATION ARROW		1	WHITE	0
SIDEWALK		1	GREY	24



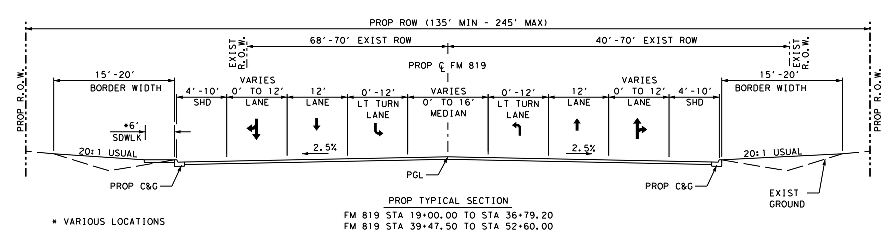
KEY MAP
NOT TO SCALE



EXIST TYPICAL SECTON
FM 819 STA 19+00.00 TO STA 38+15.00

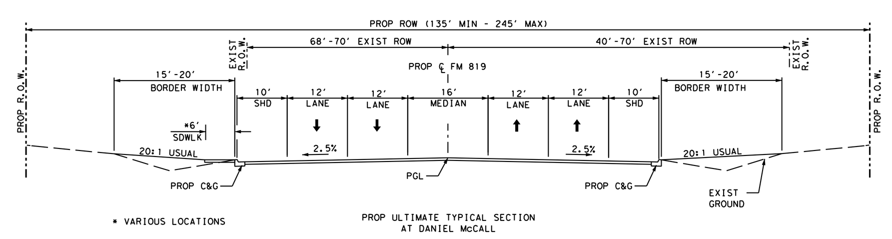


EXIST TYPICAL SECTON
FM 819 STA 38+15.00 TO STA 52+60.00



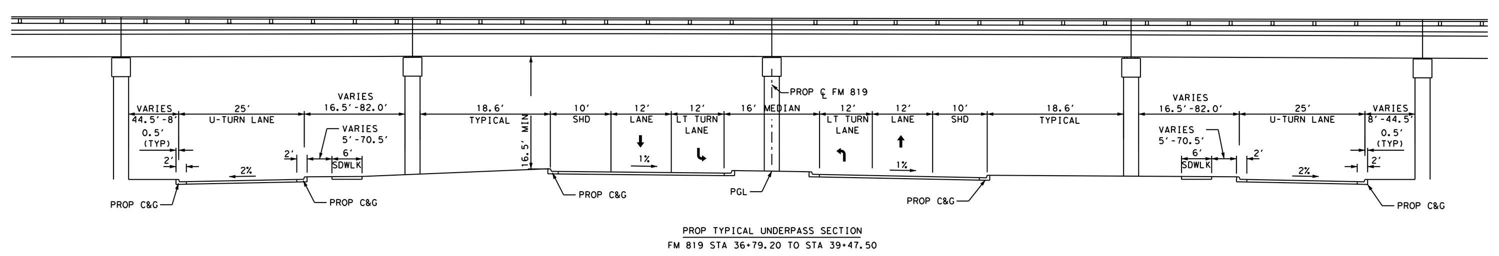
* VARIOUS LOCATIONS

PROP TYPICAL SECTION
FM 819 STA 19+00.00 TO STA 36+79.20
FM 819 STA 39+47.50 TO STA 52+60.00



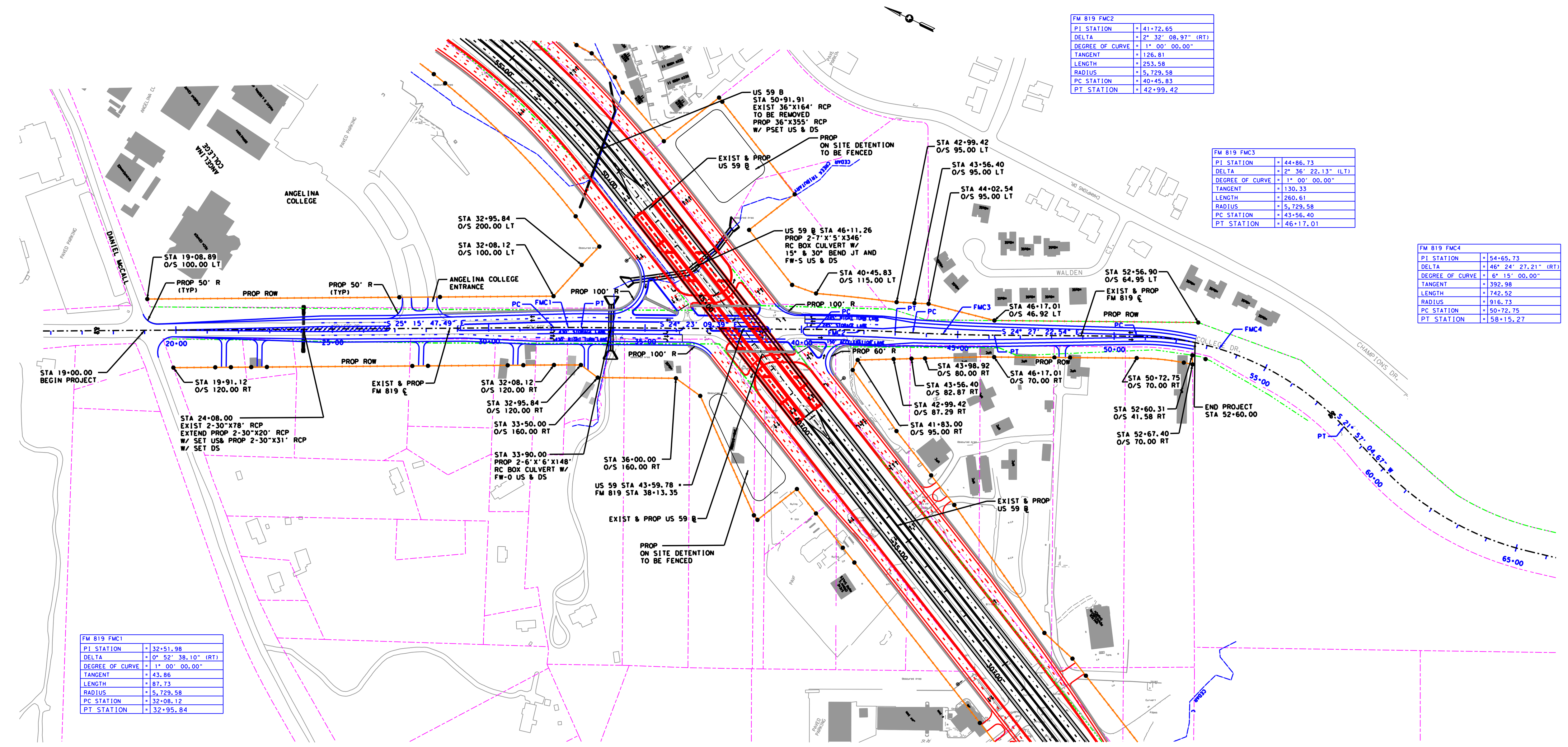
* VARIOUS LOCATIONS

PROP ULTIMATE TYPICAL SECTION
AT DANIEL McCALL



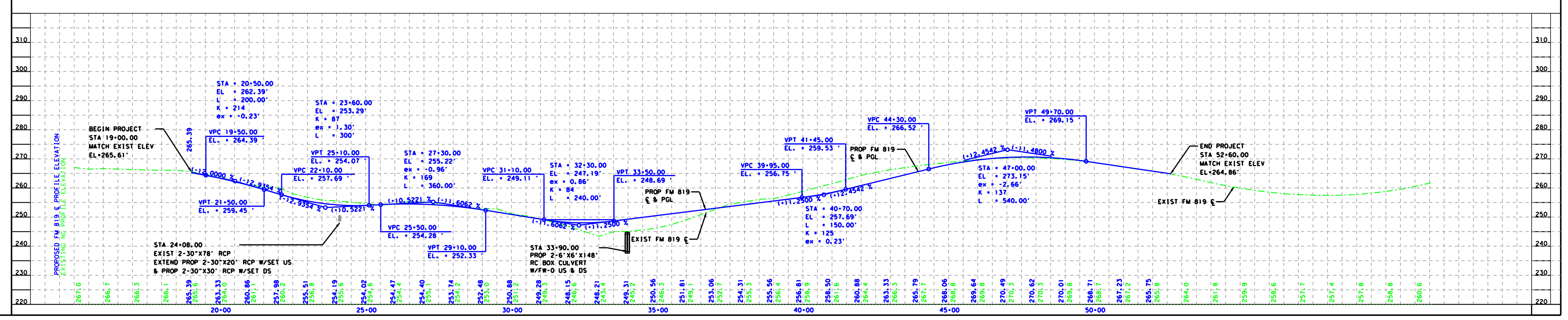
PROP TYPICAL UNDERPASS SECTION
FM 819 STA 36+79.20 TO STA 39+47.50

FM 819			
19+00.00	32+50.00	2.5%	
32+50.00	34+00.00	TRANSITION	
34+00.00	41+50.00	1.0%	→
41+50.00	43+00.00	TRANSITION	
43+00.00	49+51.27	2.5%	↔
49+51.27	51+33.49	TRANSITION	
51+33.49	52+60.00	5.7%	→



FM 819 FMC1		
PI STATION	=	32+51.98
DELTA	=	0° 52' 38.10" (RT)
DEGREE OF CURVE	=	1° 00' 00.00"
TANGENT	=	43.86
LENGTH	=	87.73
RADIUS	=	5,729.58
PC STATION	=	32+08.12
PT STATION	=	32+95.84

FM 819 FMC2		
PI STATION	=	41+72.65
DELTA	=	2° 32' 08.97" (RT)
DEGREE OF CURVE	=	1° 00' 00.00"
TANGENT	=	126.81
LENGTH	=	253.58
RADIUS	=	5,729.58
PC STATION	=	40+45.83
PT STATION	=	42+99.42

FM 819 FMC3		
PI STATION	=	44+86.73
DELTA	=	2° 36' 22.13" (LT)
DEGREE OF CURVE	=	1° 00' 00.00"
TANGENT	=	130.33
LENGTH	=	260.61
RADIUS	=	5,729.58
PC STATION	=	43+56.40
PT STATION	=	46+17.01

FM 819 FMC4		
PI STATION	=	54+65.73
DELTA	=	46° 24' 27.21" (RT)
DEGREE OF CURVE	=	6° 15' 00.00"
TANGENT	=	392.98
LENGTH	=	742.52
RADIUS	=	916.73
PC STATION	=	50+72.75
PT STATION	=	58+15.27