

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
DESIGN SCHEMATIC

JAMES K. SELMAN
DISTRICT ENGINEER
CSJ: 0196-01-106

IH 35E / LOOP 288
DENTON COUNTY

LIMITS: FROM STATE SCHOOL RD/MAYHILL ROAD(FM 2499)
TO SL 288

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
AL	6	STP 2017 (083) MM		IH 35E
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
LC	TEXAS	DALLAS	DENTON	1
CHECK	AL	CONTROL	SECTION	JOB
CHECK	MZ	0196	01	106

DESIGN SPEED:
MAINLANES = 50 MPH (NOTE 1)
RAMPS = 40 MPH
FRONTAGE ROADS = 40 MPH
CROSS STREETS = 30 MPH
UTURNS = 20 MPH

FUNCTIONAL CLASSIFICATION - URBAN FREEWAY

DESIGN SPEED NOTES:
1. DESIGN SPEED FOR MAINLANE
1802+00 TO 1814+00 = 70 MPH
1828+20 TO 1837+00 = 70 MPH

NOTE:

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014, AND THE CONTRACT PROVISIONS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 1, 2012)

TOTAL LENGTH OF LOOP 288 SEGMENT = $\frac{\text{ROADWAY} = 2586.5 \text{ FT.} = 0.489 \text{ MI.}}{\text{BRIDGE} = 357.1 \text{ FT.} = 0.068 \text{ MI.}}$
 $\frac{\text{TOTAL} = 2943.6 \text{ FT.} = 0.557 \text{ MI.}}$

TOTAL LENGTH OF PROJECT = $\frac{\text{ROADWAY} = 8223.5 \text{ FT.} = 1.557 \text{ MI.}}{\text{BRIDGE} = 717.1 \text{ FT.} = 0.136 \text{ MI.}}$
 $\frac{\text{TOTAL} = 8940.6 \text{ FT.} = 1.693 \text{ MI.}}$

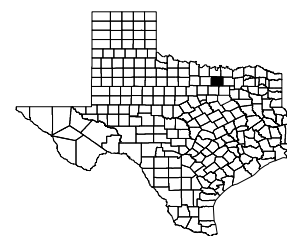
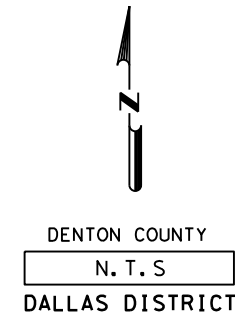
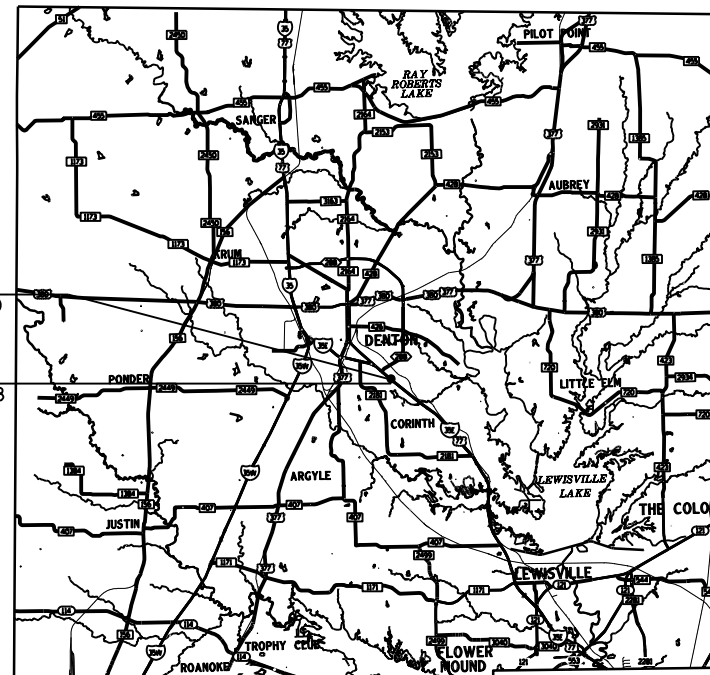
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT LAYOUT
3	TRAFFIC DIAGRAM
4	TYPICAL SECTION EXISTING
5 - 10	TYPICAL SECTION PROPOSED
11 - 15	HORIZONTAL DATA
16 - 18	PLAN SHEET
19 - 24	PROFILE

TYPE OF WORK: FOR THE CONSTRUCTION OF GRADE SEPARATION ALONG IH 35E AT BRINKER AND INTERSECTION IMPROVEMENTS AT MAYHILL AND SL 288
CONSISTING OF: PAVING, GRADING, DRAINAGE, STRUCTURES, BRIDGES, FRONTAGE ROADS

BEGIN PROJECT
CSJ: 0196-01-106
IH 35E STA 1821+72.00

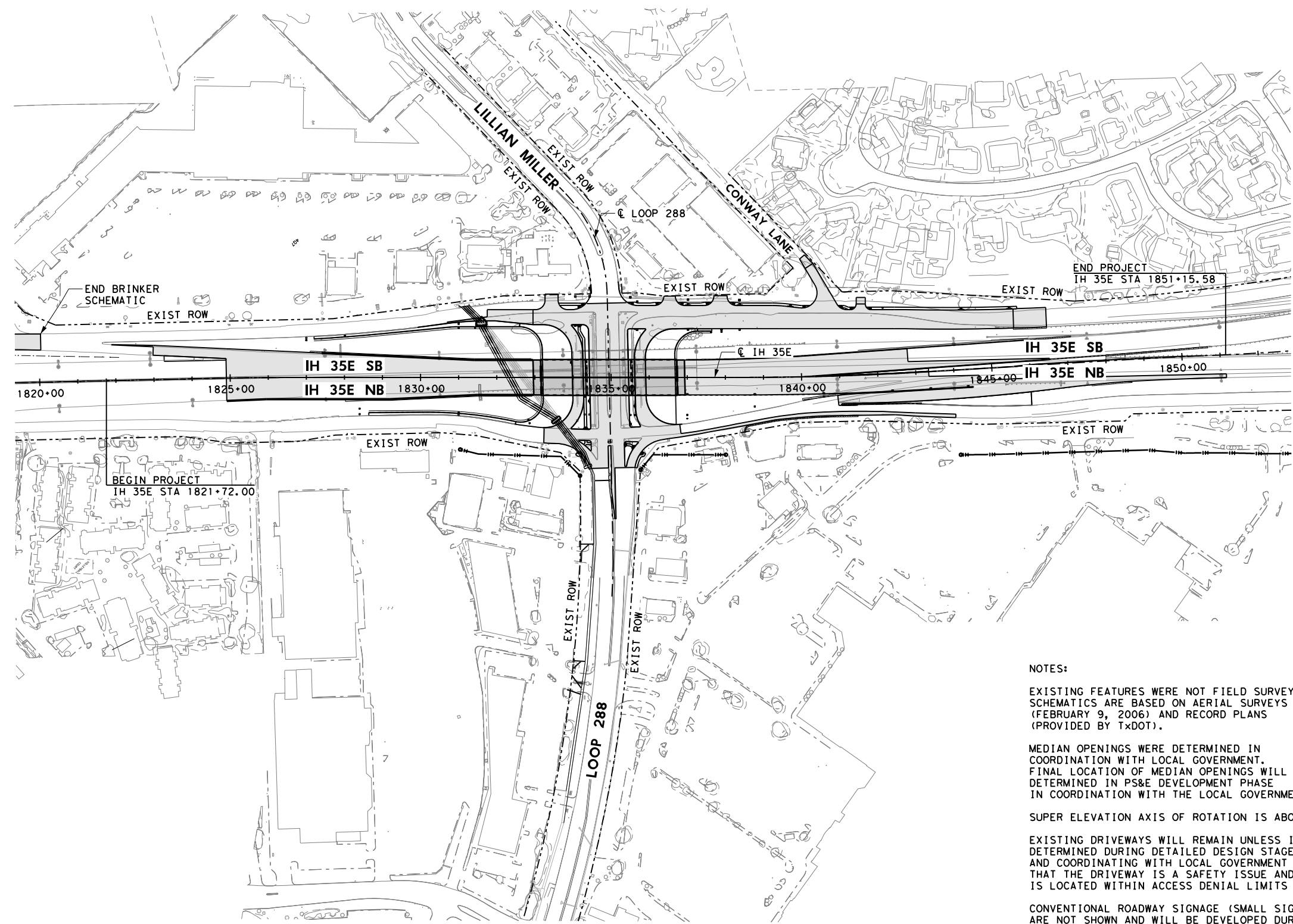
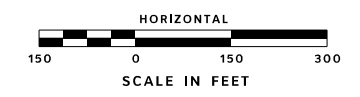
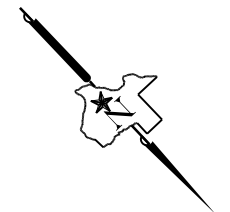
END PROJECT
CSJ: 0196-01-106
IH 35E STA 1851+15.58



KEY TO COUNTIES

SCHEMATIC PREPARED BY:	
BROWN & GAY ENGINEERS, INC. REGISTRATION NUMBER F-1046	
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.	
Prepared by or under the Direct Supervision of:	
ALFREDO LUIS LOPEZ	101155
NAME	P. E. NUMBER
NAME	P. E. NUMBER
6/26/2016	DATE

EQUATIONS: N/A
EXCEPTIONS: N/A
RAILROAD CROSSINGS: N/A



LEGEND

- EXIST ROW
- - - - - PROPERTY LINES
- CONTROL OF ACCESS
- █ CONSTRUCTION

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6/26/2016
 DATE

NOTES:
 EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED (FEBRUARY 9, 2006) AND RECORD PLANS (PROVIDED BY TxDOT).
 MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENT.
 SUPER ELEVATION AXIS OF ROTATION IS ABOUT PGL.
 EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATING WITH LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
 CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING PS&E PHASE OF THE PROJECT.

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IH 35E

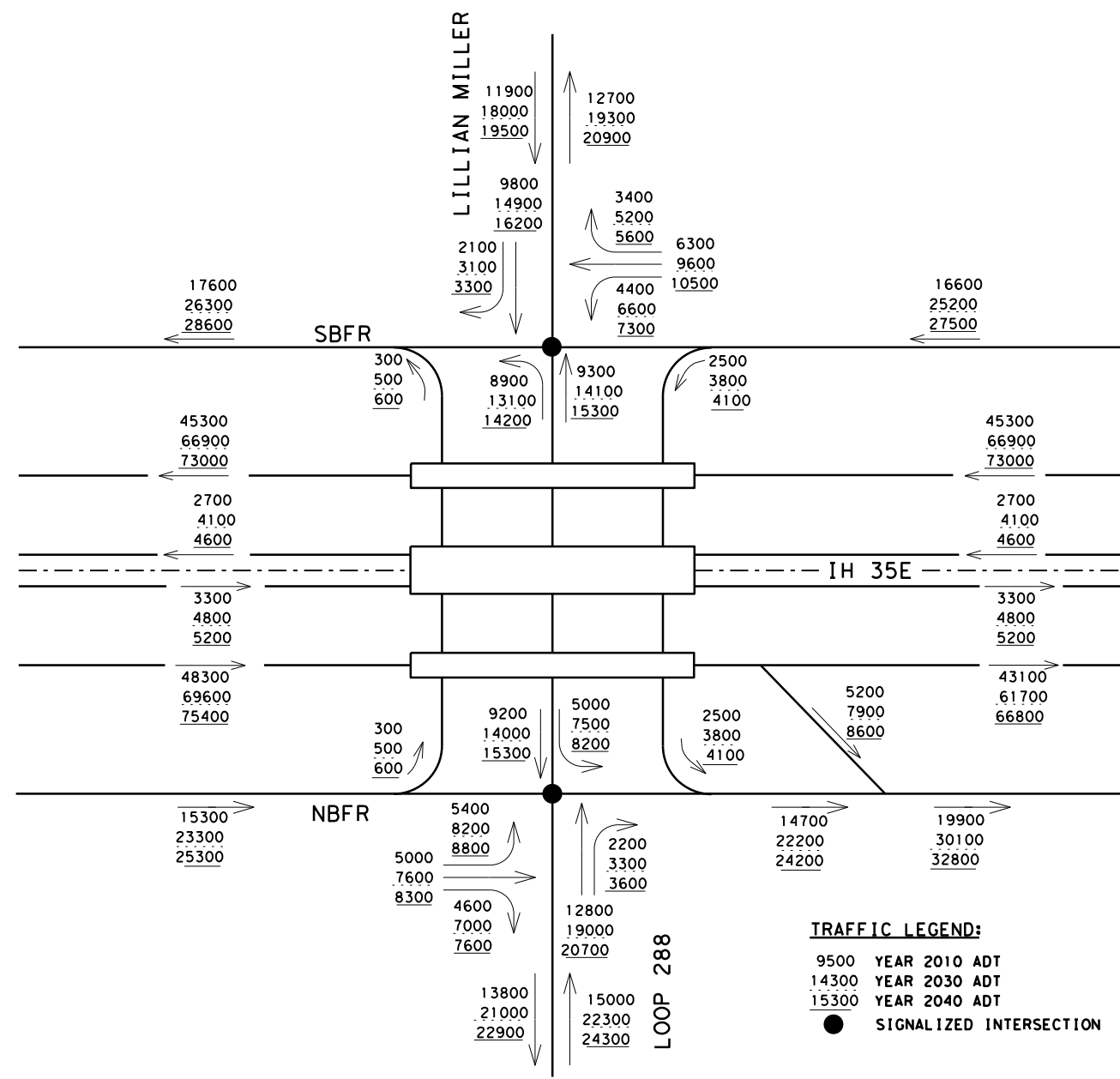
PROJECT LAYOUT

SCALE: 1"=300" SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	2

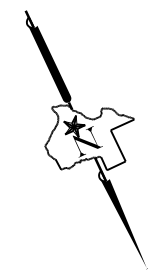
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TRAFFIC DIAGRAM

NOTE:
 TRAFFIC DIAGRAM INFORMATION FROM
 PRELIMINARY NEPA SCHEMATIC
 DATED 11/24/2010
 HALFF ASSOCIATES PE FIRM #312



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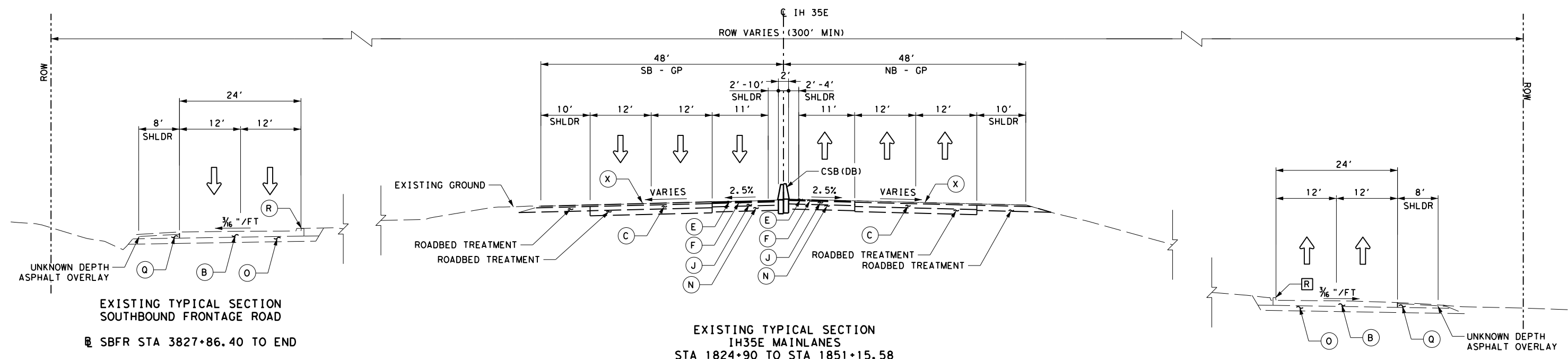
IH 35E

TRAFFIC DIAGRAM

SCALE: NTS SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	3

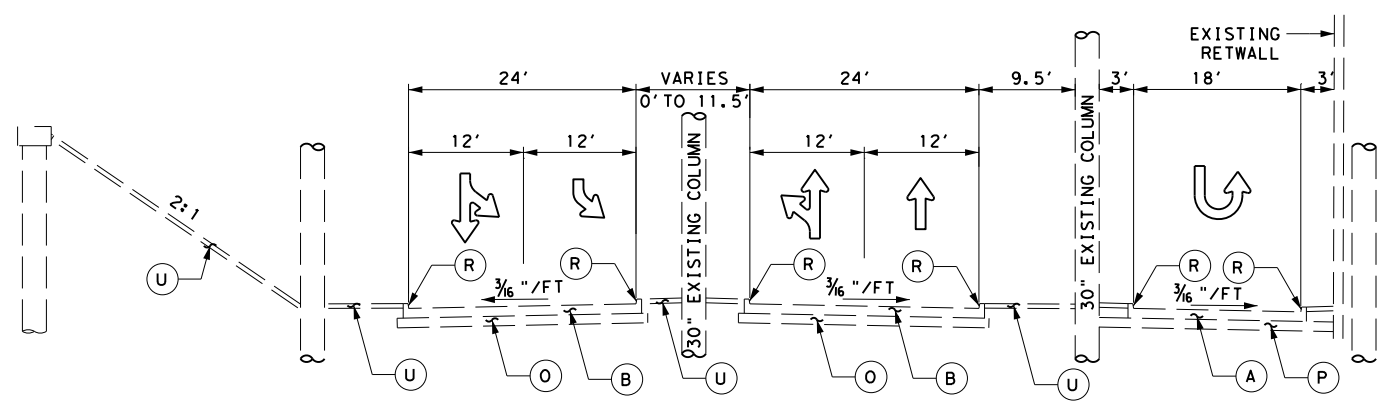
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EXISTING TYPICAL SECTION
SOUTHBOUND FRONTAGE ROAD
SBFR STA 3827+86.40 TO END

EXISTING TYPICAL SECTION
IH35E MAINLANES
STA 1824+90 TO STA 1851+15.58

EXISTING TYPICAL SECTION
NORTHBOUND FRONTAGE ROAD
NBFR LP STA 2833+00 TO END



EXISTING TYPICAL SECTION
LOOP 288
STA 10+91.00 TO STA 14+49.00

- LEGEND EXISTING**
- (A) 8" CRCP
 - (B) 8" CONC PAVEMENT
 - (C) 10" CONC PAVEMENT
 - (D) 11" CRCP
 - (E) 2" SMA
 - (F) 2" HMAC (TYPE C)
 - (G) 3" HMAC (TYPE B)
 - (H) 4" HMAC (TYPE B)
 - (I) 4.5" HMAC (TYPE B)
 - (J) 8" HMAC (TYPE B)
 - (K) 9" HMAC (TYPE B)
 - (L) 6" LIME TREATED SUBGRADE
 - (M) 10" LIME TREATED SUBGRADE
 - (N) 12" LIME TREATED SUBGRADE
 - (O) 6" COMPACTED ROADBED
 - (P) 6" FLEXBASE
 - (Q) 10" FLEXBASE
 - (R) TYPE II CURB
 - (S) MBGF
 - (T) CTB
 - (U) RIPRAP
 - (V) 4" TEXTURIZED COLOR CONC
 - (W) SIDEWALK
 - (X) 4" ASPHALT OVERLAY
 - (Y) 6" CEMENT TREATED SUBGRADE

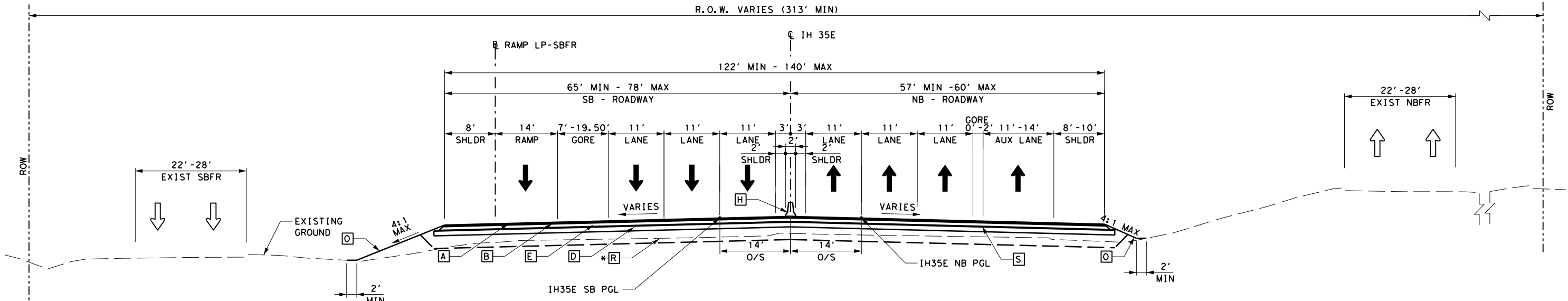
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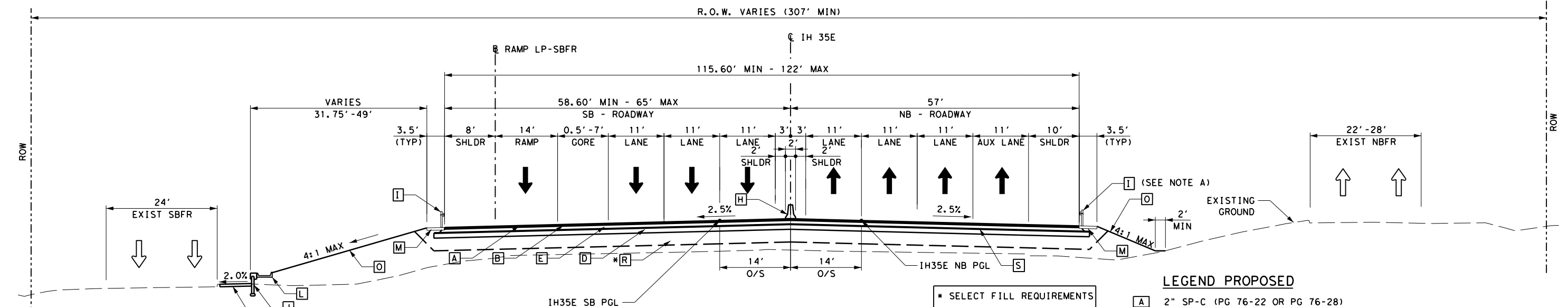


IH 35E			
TYPICAL SECTION EXISTING			
SCALE: N/A		SHEET 1 OF 1	
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	4

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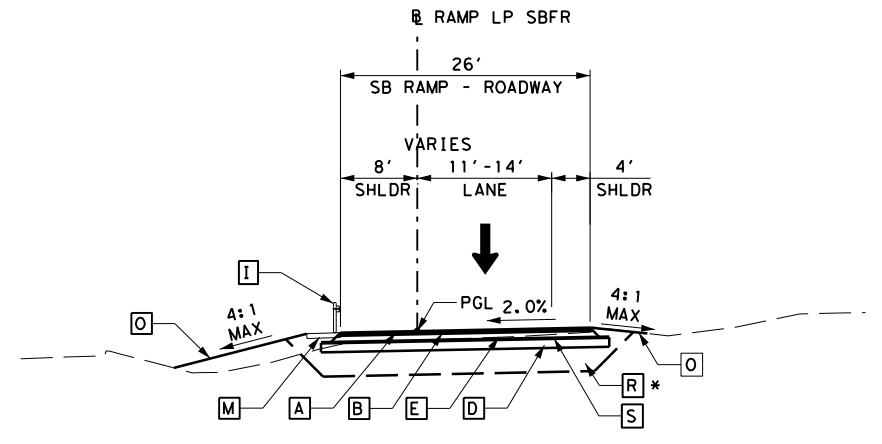


PROPOSED IH 35E TYPICAL SECTION
STA 1824+90 TO STA 1827+20



PROPOSED IH 35E TYPICAL SECTION
STA 1827+20 TO STA 1828+64

NOTE A: MBGF - STA 1828+14 TO 1828+64



PROPOSED SOUTHBOUND EXIT RAMP
STA 53+00 TO STA 54+91.50

* SELECT FILL REQUIREMENTS
FILL CONDITIONS

GP LANES AND RAMPS (IN)	FRONTAGE AND CROSS STREETS (IN)
30	25

* AT GRADE/CUT
SELECT FILL REQUIREMENTS
GPL & RAMPS

BEGIN TO 1833+16.19	0"
1836+73.28 TO END	12"

* AT GRADE/CUT
SELECT FILL REQUIREMENTS
FRONTAGE ROADS

ELEMENT	STATION LIMITS	22.5"-23"
		PAVEMENT DEPTH (FR)
NBFR	BEGIN TO END	0"
SBFR	BEGIN TO END	0"

LEGEND PROPOSED

- [A] 2" SP-C (PG 76-22 OR PG 76-28)
- [B] 2" SP-C (PG 70-22)
- [C] 7.5" SP-A (PG 64-22)
- [D] 12" LIME TREATED SUBGRADE
- [E] 9" SP-A (PG 64-22)
- [F] CURB & GUTTER (TY II)
- [G] CSB
- [H] CSB (DB)**
- [I] MBGF OR SSTR, SLOTTED
- [J] RETAINING WALL
- [K] SSTR
- [L] CONC. FLUME
- [M] MOW STRIP 4"
- [N] CONCRETE RIP RAP 5"
- [O] SEEDING & TOP SOIL OR COMPOST MANUF TOPSOIL (BOS)
- [P] CONCRETE MEDIAN 4"
- [Q] CONCRETE SIDEWALK
- [R] SELECT FILL
- [S] PRIME COAT (ITEM 310)
- ↑↑ PROPOSED TRAVEL LANE

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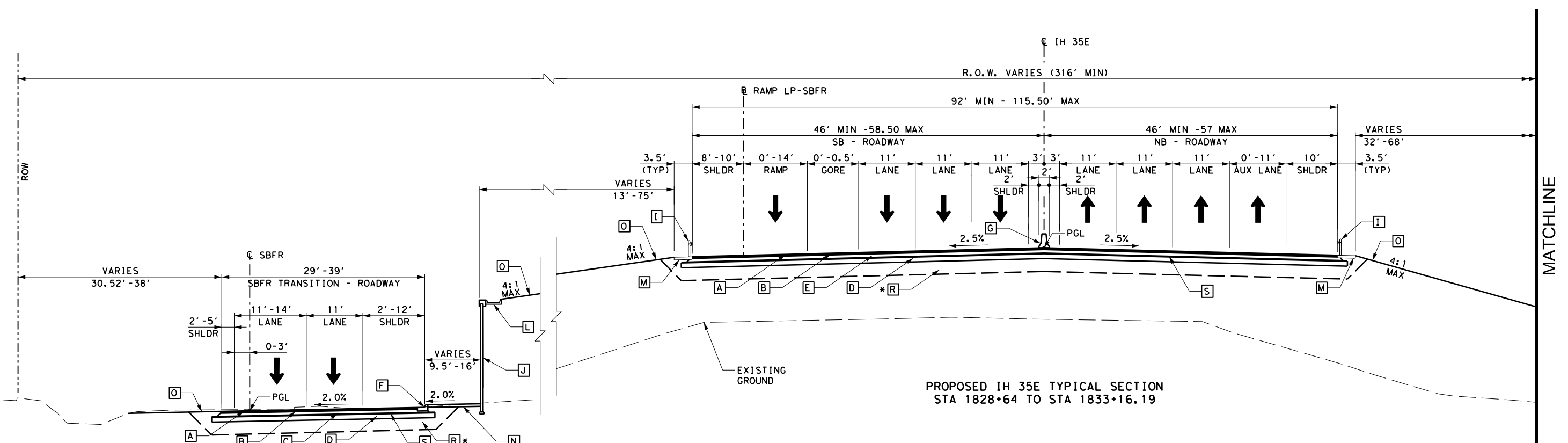
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TYPICAL SECTION
PROPOSED

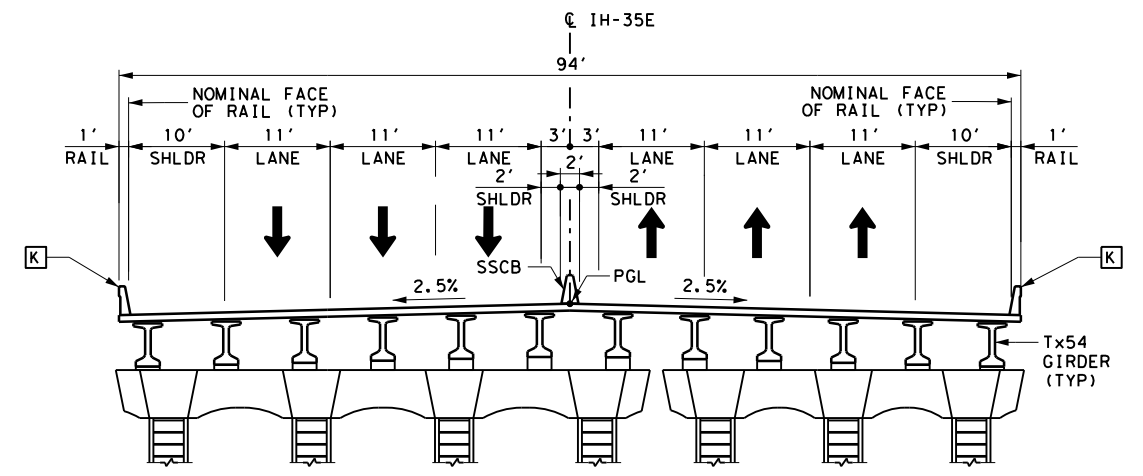
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FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	5

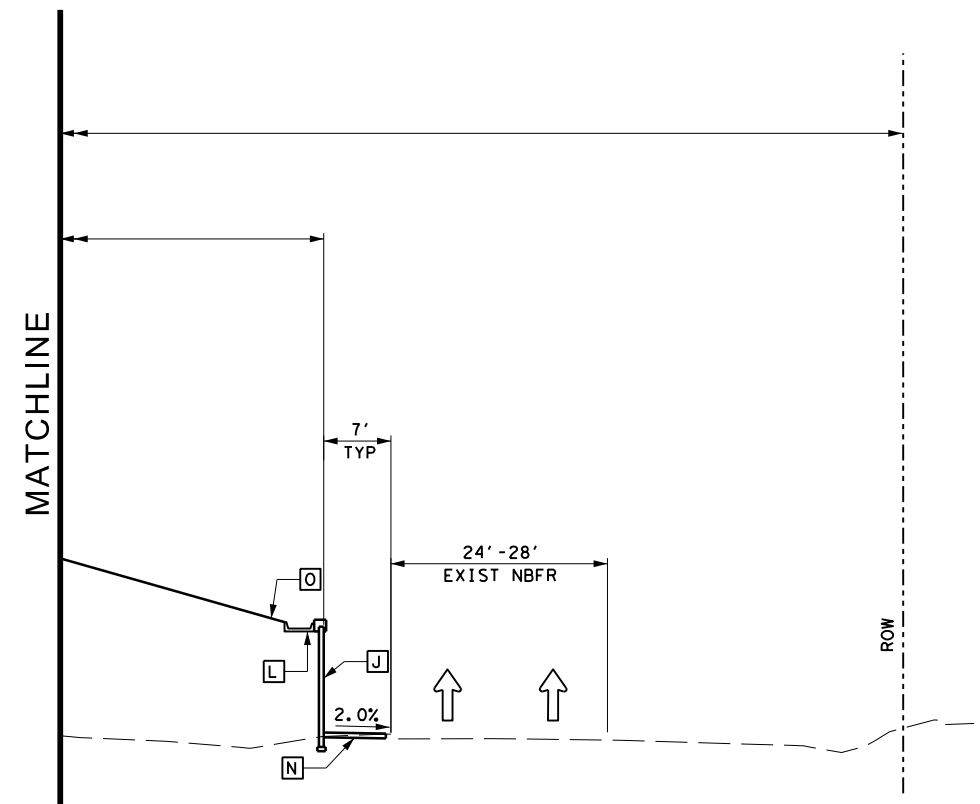
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PROPOSED SOUTHBOUND FRONTAGE ROAD TRANSITION TYPICAL SECTION
STA 3829+70 TO STA 3830+90



PROPOSED BRIDGE TYPICAL SECTION
STA 1833+16.19 TO STA 1836+73.28



MATCHLINE

- LEGEND PROPOSED**
- [A] 2" SP-C (PG 76-22 OR PG 76-28)
 - [B] 2" SP-C (PG 70-22)
 - [C] 7.5" SP-A (PG 64-22)
 - [D] 12" LIME TREATED SUBGRADE
 - [E] 9" SP-A (PG 64-22)
 - [F] CURB & GUTTER (TY II)
 - [G] CSB
 - [H] CSB(DB)**
 - [I] MBGF OR SSTR, SLOTTED
 - [J] RETAINING WALL
 - [K] SSTR
 - [L] CONC. FLUME
 - [M] MOW STRIP 4"
 - [N] CONCRETE RIP RAP 5"
 - [O] SEEDING & TOP SOIL OR COMPOST MANUF TOPSOIL (BOS)
 - [P] CONCRETE MEDIAN 4"
 - [Q] CONCRETE SIDEWALK
 - [R] SELECT FILL
 - [S] PRIME COAT (ITEM 310)
 - ↑↑ PROPOSED TRAVEL LANE

*** SELECT FILL REQUIREMENTS FILL CONDITIONS**

GP LANES AND RAMP (IN)	FRONTAGE AND CROSS STREETS (IN)
30	25

*** AT GRADE/CUT SELECT FILL REQUIREMENTS GPL & RAMP**

BEGIN TO	END	DEPTH (FR)
1833+16.19	1836+73.28	0"
1836+73.28	TO END	12"

*** AT GRADE/CUT SELECT FILL REQUIREMENTS FRONTAGE ROADS**

ELEMENT	STATION LIMITS	PAVEMENT DEPTH (FR)
NBFR	BEGIN TO END	0"
SBFR	BEGIN TO END	0"

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Texas Department of Transportation

IH 35E

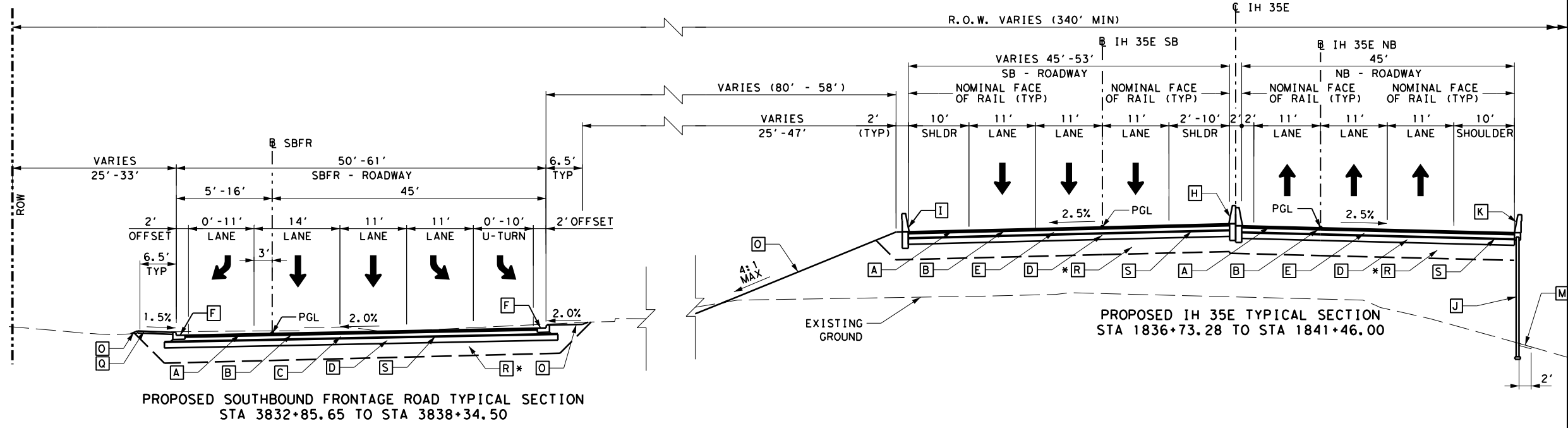
TYPICAL SECTION PROPOSED

SCALE: N/A SHEET 2 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
			JOB NO.
			106
			SHEET NO.
			6

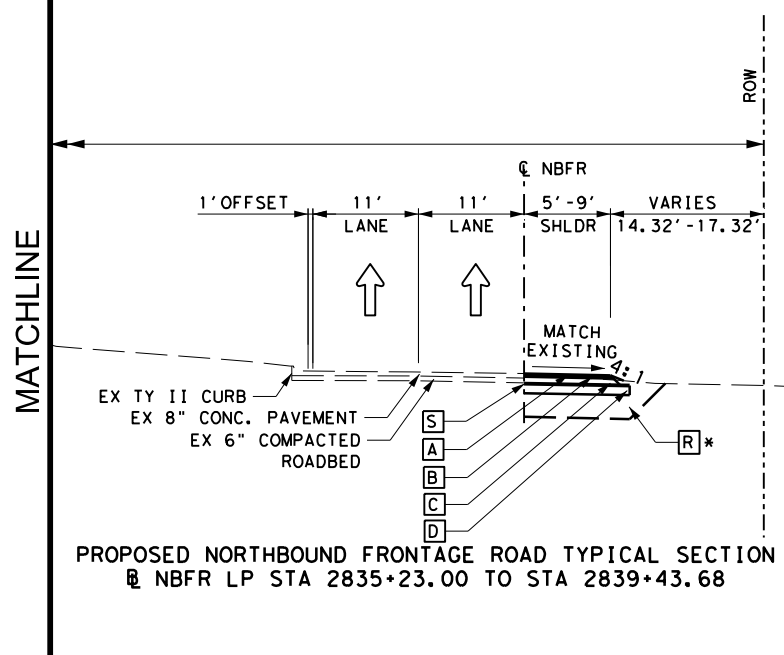
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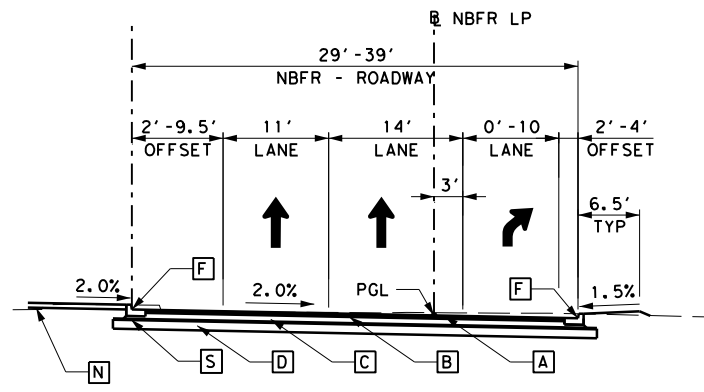


PROPOSED SOUTHBOUND FRONTAGE ROAD TYPICAL SECTION
STA 3832+85.65 TO STA 3838+34.50

PROPOSED IH 35E TYPICAL SECTION
STA 1836+73.28 TO STA 1841+46.00



PROPOSED NORTHBOUND FRONTAGE ROAD TYPICAL SECTION
NBFR LP STA 2835+23.00 TO STA 2839+43.68



PROPOSED TYPICAL SECTION
NBFR LP
STA 2831+59.78 TO STA 2835+23

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6/26/2016 DATE

LEGEND PROPOSED

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- [B] 2" SP-C (PG 70-22)
- [C] 7.5" SP-A (PG 64-22)
- [D] 12" LIME TREATED SUBGRADE
- [E] 9" SP-A (PG 64-22)
- [F] CURB & GUTTER (TY II)
- [G] CSB
- [H] CSB (DB)**
- [I] MBSG OR SSTR, SLOTTED
- [J] RETAINING WALL
- [K] SSTR
- [L] CONC. FLUME
- [M] MOW STRIP 4"
- [N] CONCRETE RIP RAP 5"
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- [P] CONCRETE MEDIAN 4"
- [Q] CONCRETE SIDEWALK
- [R] SELECT FILL
- [S] PRIME COAT (ITEM 310)
- ↑↑ PROPOSED TRAVEL LANE

* SELECT FILL REQUIREMENTS FILL CONDITIONS

GP LANES AND RAMPS (IN)	FRONTAGE AND CROSS STREETS (IN)
30	25

* AT GRADE/CUT SELECT FILL REQUIREMENTS GPL & RAMPS

BEGIN TO 1833+16.19	0"
1836+73.28 TO END	12"

* AT GRADE/CUT SELECT FILL REQUIREMENTS FRONTAGE ROADS

ELEMENT	STATION LIMITS	22.5"-23" PAVEMENT DEPTH (FR)
NBFR	BEGIN TO END	0"
SBFR	BEGIN TO END	0"

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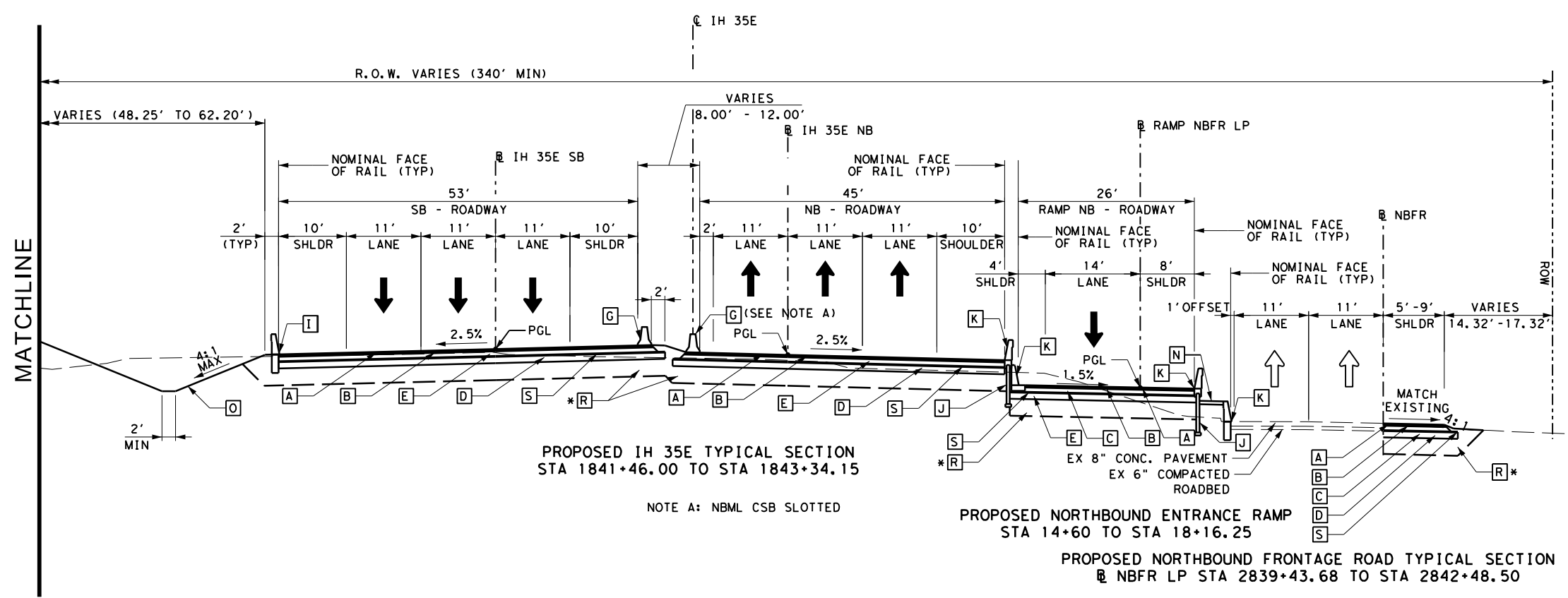


IH 35E
TYPICAL SECTION PROPOSED

SCALE: N/A SHEET 3 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	7

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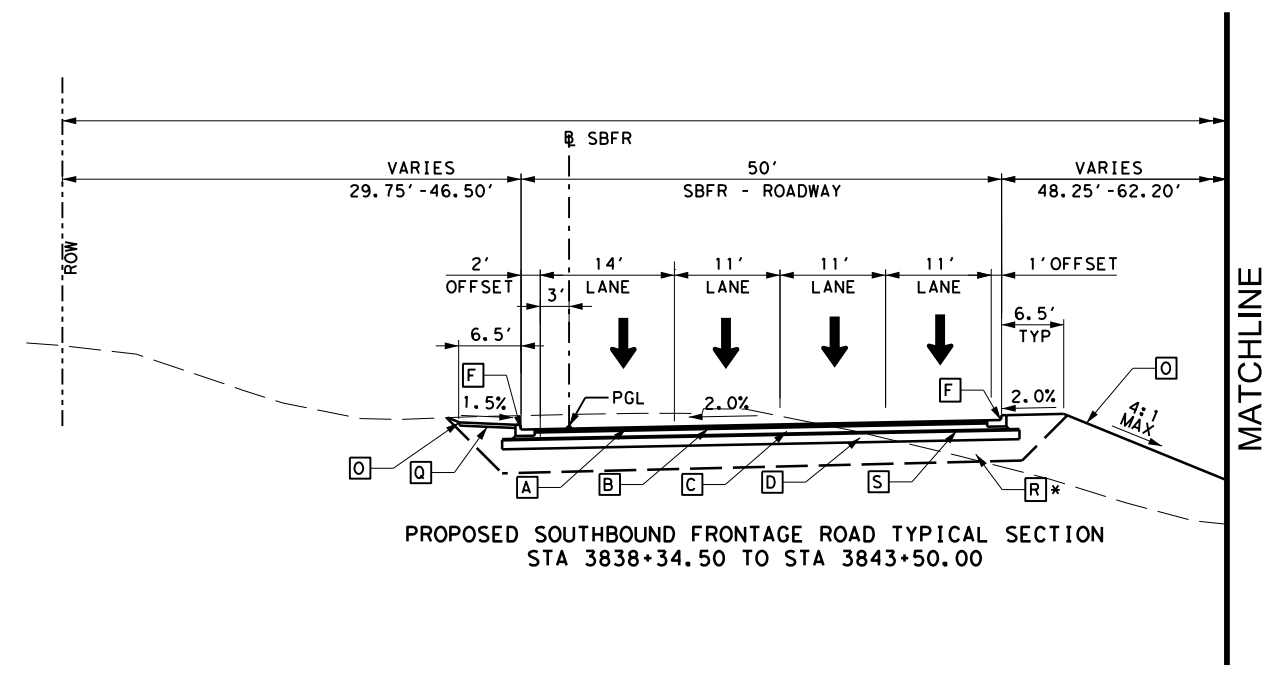


PROPOSED IH 35E TYPICAL SECTION
STA 1841+46.00 TO STA 1843+34.15

NOTE A: NBML CSB SLOTTED

PROPOSED NORTHBOUND ENTRANCE RAMP
STA 14+60 TO STA 18+16.25

PROPOSED NORTHBOUND FRONTAGE ROAD TYPICAL SECTION
NBFR LP STA 2839+43.68 TO STA 2842+48.50



PROPOSED SOUTHBOUND FRONTAGE ROAD TYPICAL SECTION
STA 3838+34.50 TO STA 3843+50.00

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- [B] 2" SP-C (PG 70-22)
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- [E] 9" SP-A (PG 64-22)
- [F] CURB & GUTTER (TY II)
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- [J] RETAINING WALL
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- [L] CONC. FLUME
- [M] MOW STRIP 4"
- [N] CONCRETE RIP RAP 5"
- [O] SEEDING & TOP SOIL OR COMPOST MANUF TOPSOIL (BOS)
- [P] CONCRETE MEDIAN 4"
- [Q] CONCRETE SIDEWALK
- [R] SELECT FILL
- [S] PRIME COAT (ITEM 310)
- ↑↑ PROPOSED TRAVEL LANE

* SELECT FILL REQUIREMENTS FILL CONDITIONS	
GP LANES AND RAMP (IN)	FRONTAGE AND CROSS STREETS (IN)
30	25

* AT GRADE/CUT SELECT FILL REQUIREMENTS GPL & RAMP	
BEGIN TO 1833+16.19	0"
1836+73.28 TO END	12"

* AT GRADE/CUT SELECT FILL REQUIREMENTS FRONTAGE ROADS		
ELEMENT	STATION LIMITS	22.5"-23" PAVEMENT DEPTH (FR)
NBFR	BEGIN TO END	0"
SBFR	BEGIN TO END	0"

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IH 35E

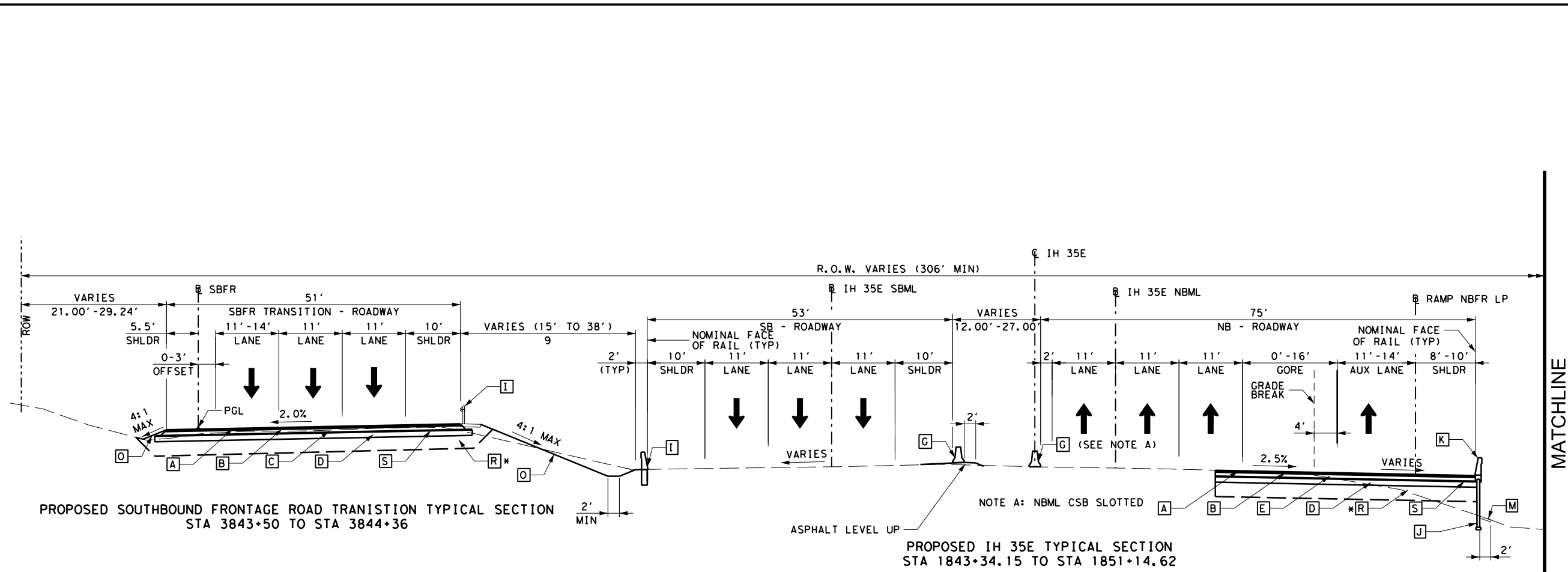
TYPICAL SECTION PROPOSED

SCALE: N/A SHEET 4 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
			JOB NO.
			106
			SHEET NO.
			8

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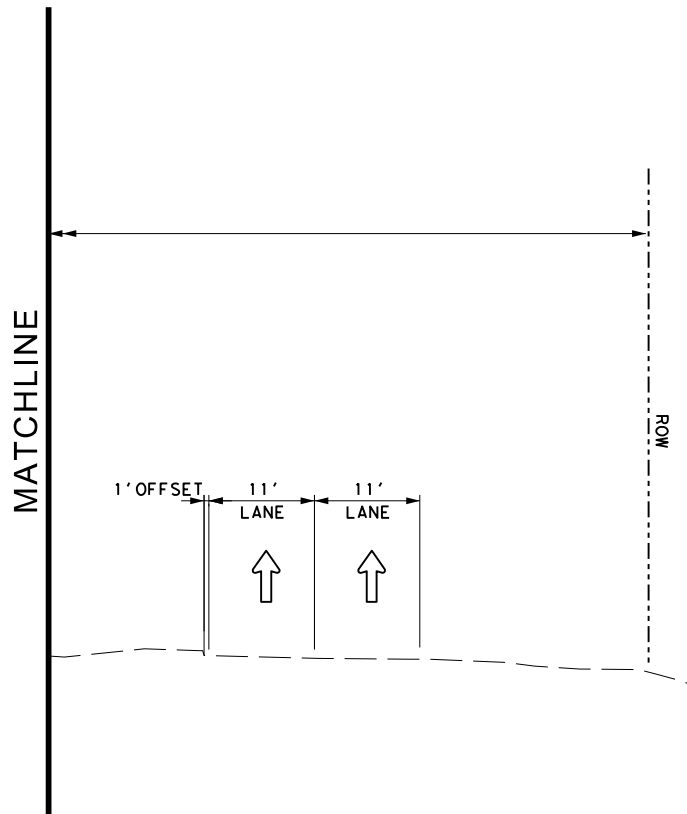
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MATCHLINE

PROPOSED SOUTHBOUND FRONTAGE ROAD TRANSITION TYPICAL SECTION
STA 3843+50 TO STA 3844+36

PROPOSED IH 35E TYPICAL SECTION
STA 1843+34.15 TO STA 1851+14.62



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 Prepared by or under the Direct Supervision of:
 ALFREDO LUIS LOPEZ 101155
 NAME P.E. NUMBER
 NAME P.E. NUMBER
 6/26/2016
 DATE

* SELECT FILL REQUIREMENTS FILL CONDITIONS

GP LANES AND RAMPS (IN)	FRONTAGE AND CROSS STREETS (IN)
30	25

* AT GRADE/CUT SELECT FILL REQUIREMENTS GPL & RAMPS

BEGIN TO 1833+16.19	0"
1836+73.28 TO END	12"

* AT GRADE/CUT SELECT FILL REQUIREMENTS FRONTAGE ROADS

ELEMENT	STATION LIMITS	22.5"-23" PAVEMENT DEPTH (FR)
NBFR	BEGIN TO END	0"
SBFR	BEGIN TO END	0"

- LEGEND PROPOSED**
- [A] 2" SP-C (PG 76-22 OR PG 76-28)
 - [B] 2" SP-C (PG 70-22)
 - [C] 7.5" SP-A (PG 64-22)
 - [D] 12" LIME TREATED SUBGRADE
 - [E] 9" SP-A (PG 64-22)
 - [F] CURB & GUTTER (TY II)
 - [G] CSB
 - [H] CSB (DB)**
 - [I] MBGF OR SSTR, SLOTTED
 - [J] RETAINING WALL
 - [K] SSTR
 - [L] CONC. FLUME
 - [M] MOW STRIP 4"
 - [N] CONCRETE RIP RAP 5"
 - [O] SEEDING & TOP SOIL OR COMPOST MANUF TOPSOIL (BOS)
 - [P] CONCRETE MEDIAN 4"
 - [Q] CONCRETE SIDEWALK
 - [R] SELECT FILL
 - [S] PRIME COAT (ITEM 310)
 - ↑↑ PROPOSED TRAVEL LANE

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TYPICAL SECTION PROPOSED

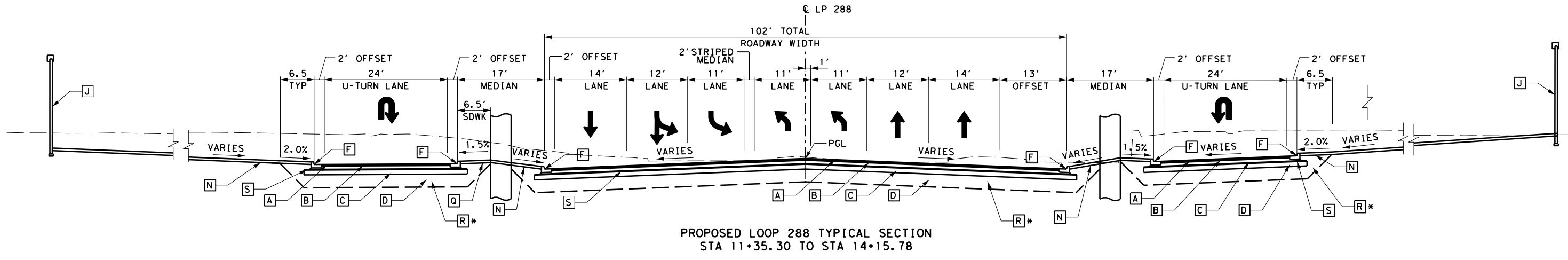
SCALE: N/A SHEET 5 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	9

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PROPOSED LOOP 288 TYPICAL SECTION
STA 11+35.30 TO STA 14+15.78

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NAME P.E. NUMBER
NAME 6/26/2016 P.E. NUMBER
DATE

* SELECT FILL REQUIREMENTS FILL CONDITIONS

GP LANES AND RAMP (IN)	FRONTAGE AND CROSS STREETS (IN)
30	25

* AT GRADE/CUT SELECT FILL REQUIREMENTS GPL & RAMP

BEGIN TO 1833+16.19	0"
1836+73.28 TO END	12"

* AT GRADE/CUT SELECT FILL REQUIREMENTS FRONTAGE ROADS

ELEMENT	STATION LIMITS	22.5"-23" PAVEMENT DEPTH (FR)
NBFR	BEGIN TO END	0"
SBFR	BEGIN TO END	0"

LEGEND PROPOSED

- [A] 2" SP-C (PG 76-22 OR PG 76-28)
- [B] 2" SP-C (PG 70-22)
- [C] 7.5" SP-A (PG 64-22)
- [D] 12" LIME TREATED SUBGRADE
- [E] 9" SP-A (PG 64-22)
- [F] CURB & GUTTER (TY II)
- [G] CSB
- [H] CSB(DB)**
- [I] MBGF OR SSTR, SLOTTED
- [J] RETAINING WALL
- [K] SSTR
- [L] CONC. FLUME
- [M] MOW STRIP 4"
- [N] CONCRETE RIP RAP 5"
- [O] SEEDING & TOP SOIL OR COMPOST MANUF TOPSOIL (BOS)
- [P] CONCRETE MEDIAN 4"
- [Q] CONCRETE SIDEWALK
- [R] SELECT FILL
- [S] PRIME COAT (ITEM 310)
- ↑↑ PROPOSED TRAVEL LANE

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IH 35E
TYPICAL SECTION PROPOSED

SCALE: N/A SHEET 6 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	10

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<* 1 Describe Chain IH35E

Chain IH35E contains:
IH35EBR-3 CUR IH35EBR-4 CUR IH35EBR-5 CUR IH35EBR-6 CUR IH35EBR-7

Beginning chain IH35E description

Curve Data

Curve IH35EBR-3
P.I. Station = 1815+46.62 N 7,117,188.4284 E 2,396,140.4419
Delta = 3° 31' 55.19" (RT)
Degree = 0° 43' 14.53"
Tangent = 245.1163
Length = 490.0774
Radius = 7,950.0000
External = 3.7778
Long Chord = 489.9998
Mid. Ord. = 3.7761
P.C. Station = 1813+01.50 N 7,117,035.3254 E 2,396,331.8616
P.T. Station = 1817+91.58 N 7,117,353.0332 E 2,395,958.8179
C.C. = N 7,123,243.7508 E 2,401,297.5393
Back = N 51° 20' 46.22" W
Ahead = N 47° 48' 51.03" W
Chord Bear = N 49° 34' 48.63" W

Course from PT IH35EBR-3 to PC IH35EBR-4 N 47° 48' 51.03" W Dist 660.9299

Curve Data

Curve IH35EBR-4
P.I. Station = 1825+55.56 N 7,117,866.0770 E 2,395,392.7280
Delta = 1° 18' 43.45" (RT)
Degree = 0° 38' 11.83"
Tangent = 103.0543
Length = 206.0995
Radius = 9,000.0000
External = 0.5900
Long Chord = 206.0950
Mid. Ord. = 0.5900
P.C. Station = 1824+52.51 N 7,117,796.8722 E 2,395,469.0882
P.T. Station = 1826+58.61 N 7,117,937.0122 E 2,395,317.9724
C.C. = N 7,124,465.6092 E 2,401,512.9237
Back = N 47° 48' 51.03" W
Ahead = N 46° 30' 07.58" W
Chord Bear = N 47° 09' 29.31" W

Course from PT IH35EBR-4 to PC IH35EBR-5 N 46° 30' 07.58" W Dist 1,182.2469

Curve Data

Curve IH35EBR-5
P.I. Station = 1840+81.22 N 7,118,916.2372 E 2,394,286.0086
Delta = 3° 26' 35.75" (LT)
Degree = 0° 42' 59.28"
Tangent = 240.3673
Length = 480.5899
Radius = 7,997.0000
External = 3.6116
Long Chord = 480.5176
Mid. Ord. = 3.6099
P.C. Station = 1838+40.86 N 7,118,750.7857 E 2,394,460.3710
P.T. Station = 1843+21.45 N 7,119,070.9178 E 2,394,102.0239
C.C. = N 7,112,949.7645 E 2,388,955.8126
Back = N 46° 30' 07.58" W
Ahead = N 49° 56' 43.33" W
Chord Bear = N 48° 13' 25.45" W

Course from PT IH35EBR-5 to PC IH35EBR-6 N 49° 56' 43.33" W Dist 562.9424

Curve Data

Curve IH35EBR-6
P.I. Station = 1849+90.38 N 7,119,501.3893 E 2,393,590.0004
Delta = 1° 12' 52.34" (RT)
Degree = 0° 34' 22.65"
Tangent = 105.9924
Length = 211.9769
Radius = 10,000.0000
External = 0.5617
Long Chord = 211.9730
Mid. Ord. = 0.5617
P.C. Station = 1848+84.39 N 7,119,433.1812 E 2,393,671.1303
P.T. Station = 1850+96.37 N 7,119,571.3016 E 2,393,510.3344
C.C. = N 7,127,087.4933 E 2,400,106.3076
Back = N 49° 56' 43.33" W
Ahead = N 48° 43' 50.99" W
Chord Bear = N 49° 20' 17.16" W

Curve Data

Curve IH35EBR-7
P.I. Station = 1861+15.52 N 7,120,243.5350 E 2,392,744.3163
Delta = 25° 31' 19.46" (LT)
Degree = 1° 16' 23.66"
Tangent = 1,019.1572
Length = 2,004.4988
Radius = 4,500.0000
External = 113.9659
Long Chord = 1,987.9676
Mid. Ord. = 111.1509
P.C. Station = 1850+96.37 N 7,119,571.3016 E 2,393,510.3344
P.T. Station = 1871+00.86 N 7,120,520.1258 E 2,391,763.4091
C.C. = N 7,116,189.0153 E 2,390,542.1465
Back = N 48° 43' 50.99" W
Ahead = N 74° 15' 10.45" W
Chord Bear = N 61° 29' 30.72" W

Ending chain IH35E description

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ALFREDO LUIS LOPEZ 101155
NAME P.E. NUMBER
NAME 6/26/2016 P.E. NUMBER
DATE

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IH 35E

HORIZONTAL DATA

SCALE: N/A SHEET 1 OF 5

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	11

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<* 1 Describe Chain IH35E LP NB

Chain IH35E LP NB contains:
HWYLPNB100 CUR IH35E LP NB-1 CUR IH35E LP NB-2

Beginning chain IH35E LP NB description

Point HWYLPNB100 N 7,118,663.9860 E 2,394,572.1846 Sta 1837+00.00

Course from HWYLPNB100 to PC IH35E LP NB-1 N 46° 30' 07.58" W Dist 140.8562

Curve Data

Curve **IH35E_LP_NB-1**

P.I. Station	=	1840+81.64	N	7,118,926.6824	E	2,394,295.3399
Delta	=	3° 26' 35.75"	(LT)			
Degree	=	0° 42' 54.77"				
Tangent	=	240.7881				
Length	=	481.4313				
Radius	=	8,011.0000				
External	=	3.6179				
Long Chord	=	481.3589				
Mid. Ord.	=	3.6163				
P.C. Station	=	1838+40.86	N	7,118,760.9413	E	2,394,470.0076
P.T. Station	=	1843+22.29	N	7,119,081.6339	E	2,394,111.0332
C.C.	=		N	7,112,949.7645	E	2,388,955.8126
Back	=	N 46° 30' 07.58"	W			
Ahead	=	N 49° 56' 43.33"	W			
Chord Bear	=	N 48° 13' 25.45"	W			

Course from PT IH35E LP NB-1 to PC IH35E LP NB-2 N 49° 56' 43.33" W Dist 496.4067

Curve Data

Curve **IH35E_LP_NB-2**

P.I. Station	=	1849+67.29	N	7,119,496.7058	E	2,393,617.3266
Delta	=	2° 07' 52.29"	(RT)			
Degree	=	0° 43' 01.86"				
Tangent	=	148.5979				
Length	=	297.1615				
Radius	=	7,989.0000				
External	=	1.3819				
Long Chord	=	297.1443				
Mid. Ord.	=	1.3816				
P.C. Station	=	1848+18.69	N	7,119,401.0804	E	2,393,731.0680
P.T. Station	=	1851+15.86	N	7,119,596.4948	E	2,393,507.2199
C.C.	=		N	7,125,516.1103	E	2,398,872.1312
Back	=	N 49° 56' 43.33"	W			
Ahead	=	N 47° 48' 51.03"	W			
Chord Bear	=	N 48° 52' 47.18"	W			

Ending chain IH35E LP NB description

<* 2 Describe Chain IH35E LP SB

Chain IH35E LP SB contains:
HWYLPB100 CUR IH35E LP SB-1 HWYLPB101

Beginning chain IH35E_LP_SB description

Point HWYB100 N 7,118,643.6748 E 2,394,552.9114 Sta 1837+00.00

Course from HWYB100 to PC IH35E_LP_SB-1 N 46° 30' 07.57" W Dist 0.7453

Curve Data

Curve **IH35E_LP_SB-1**

P.I. Station	=	1838+64.75	N	7,118,757.0752	E	2,394,433.4036
Delta	=	4° 02' 58.07"	(LT)			
Degree	=	1° 14' 06.32"				
Tangent	=	164.0023				
Length	=	327.8681				
Radius	=	4,639.0000				
External	=	2.8981				
Long Chord	=	327.7998				
Mid. Ord.	=	2.8963				
P.C. Station	=	1837+00.75	N	7,118,644.1878	E	2,394,552.3708
P.T. Station	=	1840+28.61	N	7,118,861.2796	E	2,394,306.7615
C.C.	=		N	7,115,279.0589	E	2,391,359.2174
Back	=	N 46° 30' 07.57"	W			
Ahead	=	N 50° 33' 05.64"	W			
Chord Bear	=	N 48° 31' 36.60"	W			

Course from PT IH35E_LP_SB-1 to HWYB101 N 50° 33' 05.64" W Dist 858.0900

Point HWYB101 N 7,119,406.4958 E 2,393,644.1472 Sta 1848+86.70

Ending chain IH35E LP SB description

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Prepared by or under the
Direct Supervision of:

<u>ALFREDO LUIS LOPEZ</u>	<u>101155</u>
NAME	P. E. NUMBER
<u>6/26/2016</u>	<u> </u>
DATE	P. E. NUMBER

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Texas Department of Transportation					
IH 35E					
HORIZONTAL DATA					
SCALE: N/A			SHEET 2 OF 5		
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	12

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<* 1 Describe Chain SBFR

Chain SBFR contains:
CUR SBFR-22 CUR SBFR-23 CUR SBFR-24 CUR SBFR-25 CUR SBFR-26 CUR SBFR-27 -
CUR SBFR-28

Beginning chain SBFR description

Curve Data

Curve SBFR-22
P.I. Station = 3815+15.87 N 7,117,171.0003 E 2,395,883.2598
Delta = 1° 41' 03.18" (RT)
Degree = 0° 17' 33.12"
Tangent = 287.8871
Length = 575.7328
Radius = 19,586.0000
External = 2.1157
Long Chord = 575.7120
Mid. Ord. = 2.1154
P.C. Station = 3812+27.98 N 7,116,986.0745 E 2,396,103.8984
P.T. Station = 3818+03.72 N 7,117,362.3311 E 2,395,668.1516
C.C. = N 7,131,996.9182 E 2,408,685.0735
Back = N 50° 01' 56.32" W
Ahead = N 48° 20' 53.14" W
Chord Bear = N 49° 11' 24.73" W

Curve Data

Curve SBFR-23
P.I. Station = 3819+65.32 N 7,117,469.7332 E 2,395,547.4022
Delta = 4° 33' 51.79" (RT)
Degree = 1° 24' 46.68"
Tangent = 161.6033
Length = 323.0357
Radius = 4,055.0000
External = 3.2189
Long Chord = 322.9502
Mid. Ord. = 3.2163
P.C. Station = 3818+03.72 N 7,117,362.3311 E 2,395,668.1516
P.T. Station = 3821+26.75 N 7,117,586.4038 E 2,395,435.5827
C.C. = N 7,120,392.2122 E 2,398,363.1183
Back = N 48° 20' 53.14" W
Ahead = N 43° 47' 01.36" W
Chord Bear = N 46° 03' 57.25" W

Curve Data

Curve SBFR-24
P.I. Station = 3822+39.42 N 7,117,667.7446 E 2,395,357.6241
Delta = 3° 14' 08.56" (LT)
Degree = 1° 26' 10.84"
Tangent = 112.6670
Length = 225.2741
Radius = 3,989.0000
External = 1.5908
Long Chord = 225.2442
Mid. Ord. = 1.5902
P.C. Station = 3821+26.75 N 7,117,586.4038 E 2,395,435.5827
P.T. Station = 3823+52.02 N 7,117,744.5553 E 2,395,275.1987
C.C. = N 7,114,826.2634 E 2,392,555.6963
Back = N 43° 47' 01.36" W
Ahead = N 47° 01' 09.92" W
Chord Bear = N 45° 24' 05.64" W

Course from PT SBFR-24 to PC SBFR-25 N 47° 01' 09.92" W Dist 419.3793

Curve Data

Curve SBFR-25
P.I. Station = 3827+89.46 N 7,118,042.7783 E 2,394,955.1763
Delta = 0° 31' 02.34" (RT)
Degree = 1° 25' 56.62"
Tangent = 18.0579
Length = 36.1155
Radius = 4,000.0000
External = 0.0408
Long Chord = 36.1154
Mid. Ord. = 0.0408
P.C. Station = 3827+71.40 N 7,118,030.4673 E 2,394,968.3871
P.T. Station = 3828+07.52 N 7,118,055.2080 E 2,394,942.0771
C.C. = N 7,120,956.8067 E 2,397,695.3888
Back = N 47° 01' 09.92" W
Ahead = N 46° 30' 07.58" W
Chord Bear = N 46° 45' 38.75" W

Course from PT SBFR-25 to PC SBFR-26 N 46° 30' 07.58" W Dist 1,230.7271

Curve Data

Curve SBFR-26
P.I. Station = 3840+66.04 N 7,118,921.4857 E 2,394,029.1438
Delta = 0° 47' 46.78" (RT)
Degree = 1° 25' 56.62"
Tangent = 27.7975
Length = 55.5942
Radius = 4,000.0000
External = 0.0966
Long Chord = 55.5937
Mid. Ord. = 0.0966
P.C. Station = 3840+38.25 N 7,118,902.3518 E 2,394,049.3081
P.T. Station = 3840+93.84 N 7,118,940.8979 E 2,394,009.2473
C.C. = N 7,121,803.9505 E 2,396,802.6198
Back = N 46° 30' 07.58" W
Ahead = N 45° 42' 20.80" W
Chord Bear = N 46° 06' 14.19" W

Curve Data

Curve SBFR-27
P.I. Station = 3847+28.82 N 7,119,384.3291 E 2,393,554.7548
Delta = 12° 55' 36.02" (LT)
Degree = 1° 01' 20.01"
Tangent = 634.9761
Length = 1,264.5608
Radius = 5,605.0000
External = 35.8527
Long Chord = 1,261.8805
Mid. Ord. = 35.6249
P.C. Station = 3840+93.84 N 7,118,940.8979 E 2,394,009.2473
P.T. Station = 3853+58.40 N 7,119,714.8507 E 2,393,012.5832
C.C. = N 7,114,929.0454 E 2,390,095.0342
Back = N 45° 42' 20.80" W
Ahead = N 58° 37' 56.82" W
Chord Bear = N 52° 10' 08.81" W

Course from PT SBFR-27 to PC SBFR-28 N 58° 37' 56.82" W Dist 372.9450

<* 1 Describe Chain RAMP LP SBFR

Chain RAMP LP SBFR contains:
RAMPLPSBFR900 CUR RAMP LP SBFR-1 CUR RAMP LP SBFR-2

Beginning chain RAMP LP SBFR description

Point RAMPLPSBFR900 N 7,117,290.0845 E 2,395,876.2253 Sta 48+10.00

Course from RAMPLPSBFR900 to PC RAMP LP SBFR-1 N 47° 52' 45.21" W Dist 10.7275

Curve Data

Curve RAMP_LP_SBF-1
P.I. Station = 50+04.90 N 7,117,420.8017 E 2,395,731.6631
Delta = 3° 58' 49.28" (RT)
Degree = 1° 04' 51.79"
Tangent = 184.1704
Length = 368.1926
Radius = 5,300.0000
External = 3.1989
Long Chord = 368.1186
Mid. Ord. = 3.1970
P.C. Station = 48+20.73 N 7,117,297.2794 E 2,395,868.2683
P.T. Station = 51+88.92 N 7,117,553.5084 E 2,395,603.9617
C.C. = N 7,121,228.4628 E 2,399,422.9550
Back = N 47° 52' 45.21" W
Ahead = N 43° 53' 55.93" W
Chord Bear = N 45° 53' 20.57" W

Course from PT RAMP LP SBFR-1 to PC RAMP LP SBFR-2 N 43° 53' 55.93" W Dist 889.1697

Curve Data

Curve RAMP_LP_SBF-2
P.I. Station = 61+87.15 N 7,118,272.7996 E 2,394,911.7996
Delta = 2° 36' 11.65" (LT)
Degree = 1° 11' 37.18"
Tangent = 109.0628
Length = 218.0882
Radius = 4,800.0000
External = 1.2389
Long Chord = 218.0694
Mid. Ord. = 1.2386
P.C. Station = 60+78.09 N 7,118,194.2128 E 2,394,987.4224
P.T. Station = 62+96.18 N 7,118,347.8706 E 2,394,832.6854
C.C. = N 7,114,865.9522 E 2,391,528.7114
Back = N 43° 53' 55.93" W
Ahead = N 46° 30' 07.58" W
Chord Bear = N 45° 12' 01.76" W

Ending chain RAMP LP SBFR description

SCHEMATIC PREPARED BY:
BROWN & GAY ENGINEERS, INC.
REGISTRATION NUMBER F-1046
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Prepared by or under the
Direct Supervision of:
ALFREDO LUIS LOPEZ 101155
NAME P.E. NUMBER
DATE 6/26/2016

BGE Brown & Gay Engineers, Inc.
2595 Dallas Parkway, Suite 204, Ft. Worth, TX 75034
Tel: 972-464-4800 • www.browngay.com
TBPE Registration No. F-1046



IH 35E

HORIZONTAL DATA

SCALE: N/A SHEET 3 OF 5

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	13

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<* 1 Describe Chain NBFR LP

Chain NBFR LP contains:
NBFR LP-1 CUR NBFR LP-2 CUR NBFR LP-3 CUR NBFR LP-4 CUR NBFR LP-5
NBFR LP-201

Beginning chain NBFR LP description

Point NBFR LP-200 N 7,118,134.0656 E 2,395,289.4219 Sta 2826+50.00

Course from NBFR LP-200 to PC NBFR LP-1 N 47° 21' 09.67" W Dist 208.4300

Curve Data

Curve (NBFR LP-1)
P.I. Station 2829+43.28 N 7,118,332.7600 E 2,395,073.7012
Delta = 14° 19' 47.68" (RT)
Degree = 8° 29' 17.75"
Tangent = 84.8529
Length = 168.8203
Radius = 675.0000
External = 5.3124
Long Chord = 168.3806
Mid. Ord. = 5.2710
P.C. Station 2828+58.43 N 7,118,275.2735 E 2,395,136.1137
P.T. Station 2830+27.25 N 7,118,403.9052 E 2,395,027.4587
C.C. Station 2830+27.25 N 7,118,771.7616 E 2,395,593.4151
Back = N 47° 21' 09.67" W
Ahead = N 33° 01' 21.99" W
Chord Bear = N 40° 11' 15.83" W

Curve Data

Curve (NBFR LP-2)
P.I. Station 2830+99.63 N 7,118,464.5955 E 2,394,988.0116
Delta = 11° 51' 28.24" (LT)
Degree = 8° 13' 13.23"
Tangent = 72.3836
Length = 144.2500
Radius = 697.0000
External = 3.7484
Long Chord = 143.9927
Mid. Ord. = 3.7284
P.C. Station 2830+27.25 N 7,118,403.9052 E 2,395,027.4587
P.T. Station 2831+71.50 N 7,118,515.8850 E 2,394,936.9355
C.C. Station 2831+71.50 N 7,118,024.0595 E 2,394,443.0562
Back = N 33° 01' 21.99" W
Ahead = N 44° 52' 50.23" W
Chord Bear = N 38° 57' 06.11" W

Course from PT NBFR LP-2 to PC NBFR LP-3 N 44° 52' 50.23" W Dist 160.7308

Curve Data

Curve (NBFR LP-3)
P.I. Station 2834+67.81 N 7,118,725.8453 E 2,394,727.8483
Delta = 14° 03' 11.45" (LT)
Degree = 5° 12' 31.35"
Tangent = 135.5812
Length = 269.8017
Radius = 1,100.0000
External = 8.3241
Long Chord = 269.1259
Mid. Ord. = 8.2616
P.C. Station 2833+32.23 N 7,118,629.7754 E 2,394,823.5187
P.T. Station 2836+02.03 N 7,118,795.8090 E 2,394,611.7132
C.C. Station 2836+02.03 N 7,117,853.5802 E 2,394,044.0823
Back = N 44° 52' 50.23" W
Ahead = N 58° 56' 01.68" W
Chord Bear = N 51° 54' 25.95" W

Course from PT NBFR LP-3 to PC NBFR LP-4 N 58° 56' 01.68" W Dist 29.5127

Curve Data

Curve (NBFR LP-4)
P.I. Station 2837+82.67 N 7,118,889.0205 E 2,394,456.9884
Delta = 11° 30' 21.21" (RT)
Degree = 3° 49' 10.99"
Tangent = 151.1200
Length = 301.2235
Radius = 1,500.0000
External = 7.5932
Long Chord = 300.7177
Mid. Ord. = 7.5550
P.C. Station 2836+31.55 N 7,118,811.0384 E 2,394,586.4335
P.T. Station 2839+32.77 N 7,118,991.2558 E 2,394,345.6997
C.C. Station 2839+32.77 N 7,120,095.8959 E 2,395,360.4757
Back = N 58° 56' 01.68" W
Ahead = N 47° 25' 40.47" W
Chord Bear = N 53° 10' 51.07" W

Course from PT NBFR LP-4 to PC NBFR LP-5 N 47° 25' 40.47" W Dist 156.7246

Curve Data

Curve (NBFR LP-5)
P.I. Station 2841+26.32 N 7,119,122.1981 E 2,394,203.1617
Delta = 2° 50' 01.42" (RT)
Degree = 3° 50' 52.57"
Tangent = 36.8289
Length = 73.6428
Radius = 1,489.0000
External = 0.4554
Long Chord = 73.6353
Mid. Ord. = 0.4553
P.C. Station 2840+89.49 N 7,119,097.2827 E 2,394,230.2835
P.T. Station 2841+63.14 N 7,119,148.4239 E 2,394,177.3049
C.C. Station 2841+63.14 N 7,120,193.8221 E 2,395,237.6178
Back = N 47° 25' 40.47" W
Ahead = N 44° 35' 39.05" W
Chord Bear = N 46° 00' 39.76" W

Course from PT NBFR LP-5 to NBFR LP-201 N 44° 35' 39.05" W Dist 85.3604

Point NBFR LP-201 N 7,119,209.2088 E 2,394,117.3750 Sta 2842+48.50

Ending chain NBFR LP description

<* 1 Describe Chain LOOP 288

Chain LOOP 288 contains:
P288100 CUR P288-1 CUR P288-2 P288101 P288102

Beginning chain LOOP 288 description

Point P288100 N 7,118,935.2688 E 2,395,102.0450 Sta 7+00.00

Course from P288100 to PC P288-1 S 45° 58' 49.08" W Dist 67.3431

Curve Data

Curve (P288-1)
P.I. Station 7+83.91 N 7,118,876.9602 E 2,395,041.7062
Delta = 3° 47' 42.50" (LT)
Degree = 11° 27' 32.96"
Tangent = 16.5655
Length = 33.1188
Radius = 500.0000
External = 0.2743
Long Chord = 33.1128
Mid. Ord. = 0.2742
P.C. Station 7+67.34 N 7,118,888.4717 E 2,395,053.6185
P.T. Station 8+00.46 N 7,118,864.6856 E 2,395,030.5820
C.C. Station 8+00.46 N 7,118,528.9212 E 2,395,401.0713
Back = S 45° 58' 49.08" W
Ahead = S 42° 11' 06.58" W
Chord Bear = S 44° 04' 57.83" W

Course from PT P288-1 to PC P288-2 S 42° 11' 06.58" W Dist 692.8740

Curve Data

Curve (P288-2)
P.I. Station 16+50.96 N 7,118,234.4859 E 2,394,459.4492
Delta = 43° 00' 52.08" (LT)
Degree = 14° 19' 26.20"
Tangent = 157.6225
Length = 300.2976
Radius = 400.0000
External = 29.9359
Long Chord = 293.2949
Mid. Ord. = 27.8515
P.C. Station 14+93.34 N 7,118,351.2808 E 2,394,565.2973
P.T. Station 17+93.63 N 7,118,076.8799 E 2,394,461.7306
C.C. Station 17+93.63 N 7,118,082.6693 E 2,394,861.6887
Back = S 42° 11' 06.58" W
Ahead = S 0° 49' 45.50" E
Chord Bear = S 20° 40' 40.54" W

Course from PT P288-2 to P288101 S 0° 49' 45.50" E Dist 229.6842

Point P288101 N 7,117,847.2197 E 2,394,465.0549 Sta 20+23.32

Ending chain LOOP 288 description

SCHEMATIC PREPARED BY:

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Texas Department of Transportation

IH 35E

HORIZONTAL DATA

SCALE: N/A SHEET 4 OF 5

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
			JOB NO.
			106
			SHEET NO.
			14

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<* 1 Describe Chain RAMP NBFR LP

Chain RAMP NBFR LP contains:
CUR RAMP NBFR LP-1 CUR RAMP NBFR LP-2 CUR RAMP NBFR LP-3 CUR RAMP NBFR LP-4 CUR RAMP NBFR LP-5 CUR RAMP NBFR LP-6 CUR RAMP NBFR LP-7

Beginning chain RAMP_NBFR_LP description

Curve Data

Curve (RAMP_NBFR_LP-1)
P.I. Station = 10+58.60 N 7,118,756.1469 E 2,394,656.2331
Delta = 6° 09' 37.64" (LT)
Degree = 5° 15' 40.75"
Tangent = 58.6012
Length = 117.0896
Radius = 1,089.0000
External = 1.5756
Long Chord = 117.0332
Mid. Ord. = 1.5733
P.C. Station = 10+00.00 N 7,118,720.6949 E 2,394,702.8942
P.T. Station = 11+17.09 N 7,118,786.3867 E 2,394,606.0369
C.C. = N 7,117,853.5802 E 2,394,044.0823
Back = N 52° 46' 24.04" W
Ahead = N 58° 56' 01.68" W
Chord Bear = N 55° 51' 12.86" W

Course from PT RAMP_NBFR_LP-1 to PC RAMP_NBFR_LP-2 N 58° 56' 01.68" W Dist 29.5127

Curve Data

Curve (RAMP_NBFR_LP-2)
P.I. Station = 11+74.69 N 7,118,816.1122 E 2,394,556.6946
Delta = 2° 07' 48.65" (RT)
Degree = 3° 47' 30.88"
Tangent = 28.0917
Length = 56.1770
Radius = 1,511.0000
External = 0.2611
Long Chord = 56.1738
Mid. Ord. = 0.2611
P.C. Station = 11+46.60 N 7,118,801.6161 E 2,394,580.7572
P.T. Station = 12+02.78 N 7,118,831.4927 E 2,394,533.1875
C.C. = N 7,120,095.8959 E 2,395,360.4757
Back = N 58° 56' 01.68" W
Ahead = N 56° 48' 13.03" W
Chord Bear = N 57° 52' 07.35" W

Course from PT RAMP_NBFR_LP-2 to PC RAMP_NBFR_LP-3 N 56° 48' 13.03" W Dist 191.4371

Curve Data

Curve (RAMP_NBFR_LP-3)
P.I. Station = 14+68.52 N 7,118,976.9903 E 2,394,310.8132
Delta = 8° 37' 10.40" (RT)
Degree = 5° 48' 39.35"
Tangent = 74.3069
Length = 148.3335
Radius = 986.0000
External = 2.7960
Long Chord = 148.1936
Mid. Ord. = 2.7881
P.C. Station = 13+94.22 N 7,118,936.3065 E 2,394,372.9931
P.T. Station = 15+42.55 N 7,119,026.5337 E 2,394,255.4329
C.C. = N 7,119,761.3902 E 2,394,912.8384
Back = N 56° 48' 13.03" W
Ahead = N 48° 11' 02.63" W
Chord Bear = N 52° 29' 37.83" W

Curve Data

Curve (RAMP_NBFR_LP-4)
P.I. Station = 17+92.93 N 7,119,193.4735 E 2,394,068.8254
Delta = 5° 28' 54.47" (LT)
Degree = 1° 05' 43.88"
Tangent = 250.3822
Length = 500.3824
Radius = 5,230.0000
External = 5.9900
Long Chord = 500.1916
Mid. Ord. = 5.9831
P.C. Station = 15+42.55 N 7,119,026.5337 E 2,394,255.4329
P.T. Station = 20+42.93 N 7,119,341.8233 E 2,393,867.1236
C.C. = N 7,115,128.6640 E 2,390,768.3838
Back = N 48° 11' 02.63" W
Ahead = N 53° 39' 57.10" W
Chord Bear = N 50° 55' 29.86" W

Curve Data

Curve (RAMP_NBFR_LP-5)
P.I. Station = 22+11.54 N 7,119,441.7248 E 2,393,731.2940
Delta = 5° 07' 17.96" (RT)
Degree = 1° 31' 11.22"
Tangent = 168.6120
Length = 336.9994
Radius = 3,770.0000
External = 3.7687
Long Chord = 336.8872
Mid. Ord. = 3.7649
P.C. Station = 20+42.93 N 7,119,341.8233 E 2,393,867.1236
P.T. Station = 23+79.93 N 7,119,553.3530 E 2,393,604.9249
C.C. = N 7,122,378.8426 E 2,396,100.8233
Back = N 53° 39' 57.10" W
Ahead = N 48° 32' 39.14" W
Chord Bear = N 51° 06' 18.12" W

Curve Data

Curve (RAMP_NBFR_LP-6)
P.I. Station = 24+30.62 N 7,119,586.9093 E 2,393,566.9374
Delta = 0° 43' 48.10" (RT)
Degree = 0° 43' 12.57"
Tangent = 50.6860
Length = 101.3706
Radius = 7,956.0000
External = 0.1615
Long Chord = 101.3699
Mid. Ord. = 0.1614
P.C. Station = 23+79.93 N 7,119,553.3530 E 2,393,604.9249
P.T. Station = 24+81.30 N 7,119,620.9468 E 2,393,529.3806
C.C. = N 7,125,516.1103 E 2,398,872.1312
Back = N 48° 32' 39.14" W
Ahead = N 47° 48' 51.03" W
Chord Bear = N 48° 10' 45.09" W

Ending chain RAMP NBFR LP description

SCHEMATIC PREPARED BY:
BROWN & GAY ENGINEERS, INC.
REGISTRATION NUMBER F-1046
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6/26/2016
DATE

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IH 35E

HORIZONTAL DATA

SCALE: N/A SHEET 5 OF 5

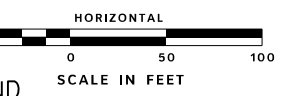
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	15

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Parcel #	Property ID	Owner Name	Location Address
108	128463	Goodwill Industries Of Dallas Inc	2440 S I35e Tx 76205-5442
109	121075	Denton Pcr Ltd	2411 S I35e Tx 76205-5445
110	128461	Southridge Vlg Shopping	2436 S I35e 76205-5442
1	128455	Lunacrossing Ltd	2434 S I35e Tx 76205-5442
2	81679	Klutz, Stephen B	2311-2315 I35e
3	128452	Southridge Lot 1d Ps Ltd	2420 S I35e & Lillian Miller Pkwy Tx
4	81677	Pic'n'sav Stores Inc #96	2249 Loop 288 76205-4973
5	128448	Southridge Lot 1c Lic	2410-2412 S I35e Tx 76205-4904

OWNERSHIP INFORMATION OBTAINED FROM DENTON COUNTY COUNTY APPRAISAL DISTRICT (2/2016)



- LEGEND**
- RETAINING WALL
 - METAL BEAM GUARD FENCE
 - PROP TRAFFIC LANE
 - EXIST TRAFFIC LANE
 - PROP PAVEMENT
 - TYPE 7 PED RAMP
 - EXIST BRIDGE REMOVAL
 - EXIST PAVEMENT REMOVAL
 - EXISTING RIGHT OF WAY
 - COA - CONTROL OF ACCESS
 - PROPERTY OWNERS

- NOTES:**
- ALL DRIVEWAY RADIUS ARE 25' UNLESS OTHERWISE NOTED.
 - DIMENSIONS ARE TO EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS OTHERWISE NOTED).
 - EXISTING CULVERT LOCATION, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - CURBS ON THE FRONTAGE ROAD AND CROSS STREETS ARE TYPE II (UNLESS OTHERWISE NOTED)
 - ALL PEDESTRIAN RAMPS ARE TYPE 7 (UNLESS OTHERWISE NOTED)

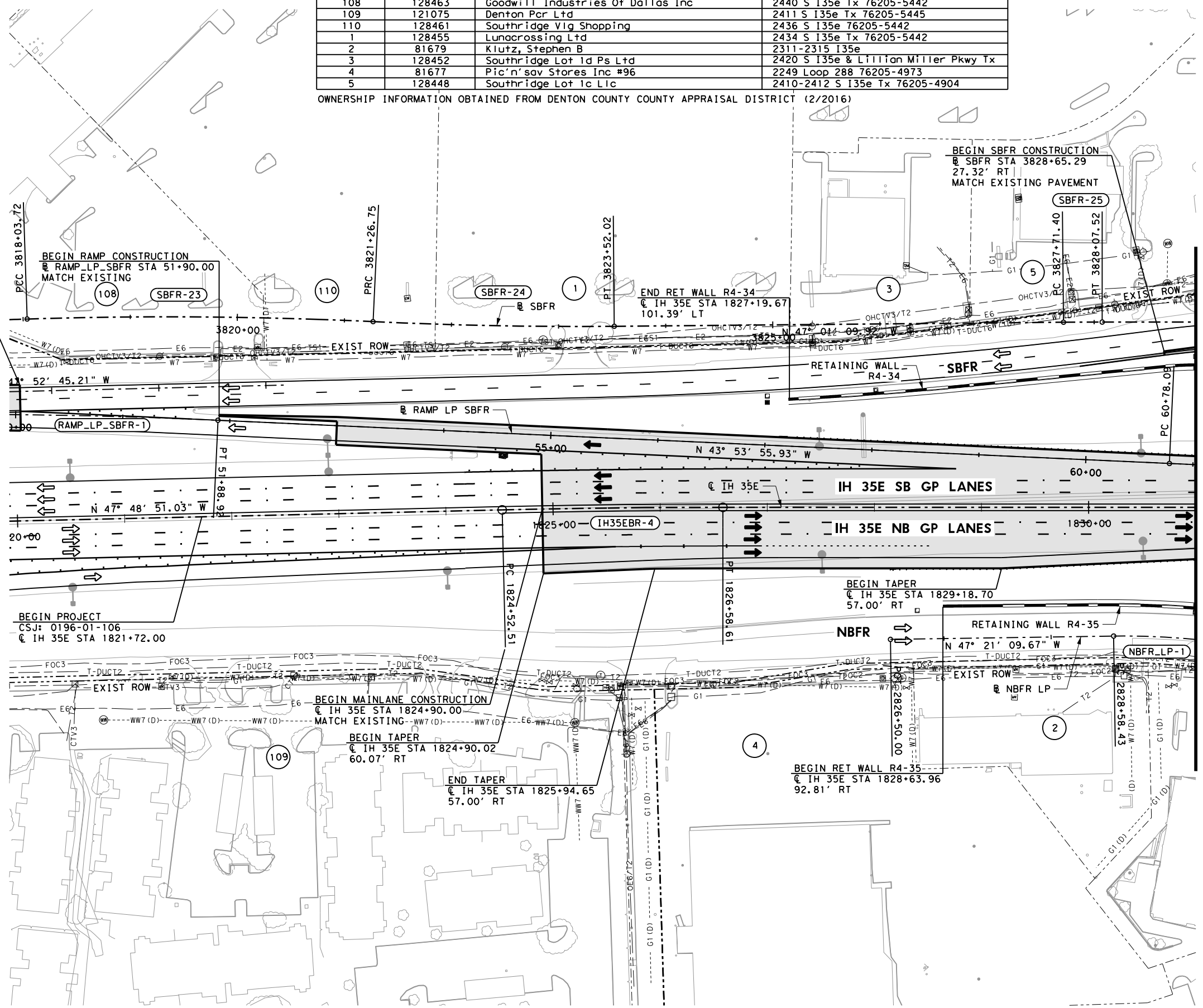
SCHEMATIC PREPARED BY:
 BROWN & GAY ENGINEERS, INC.
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 Prepared by or under the Direct Supervision of:
ALFREDO LUIS LOPEZ 101155
 NAME P.E. NUMBER
 NAME P.E. NUMBER
 DATE 6/26/2016

Brown & Gay Engineers, Inc.
 2595 Dallas Parkway, Suite 204, Ft. Worth, TX 75034
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IH 35E
PLAN
IH 35E
BEGIN PROJECT TO STA 1831+00
 SCALE: 1"=100' SHEET 1 OF 3

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 35E		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	16

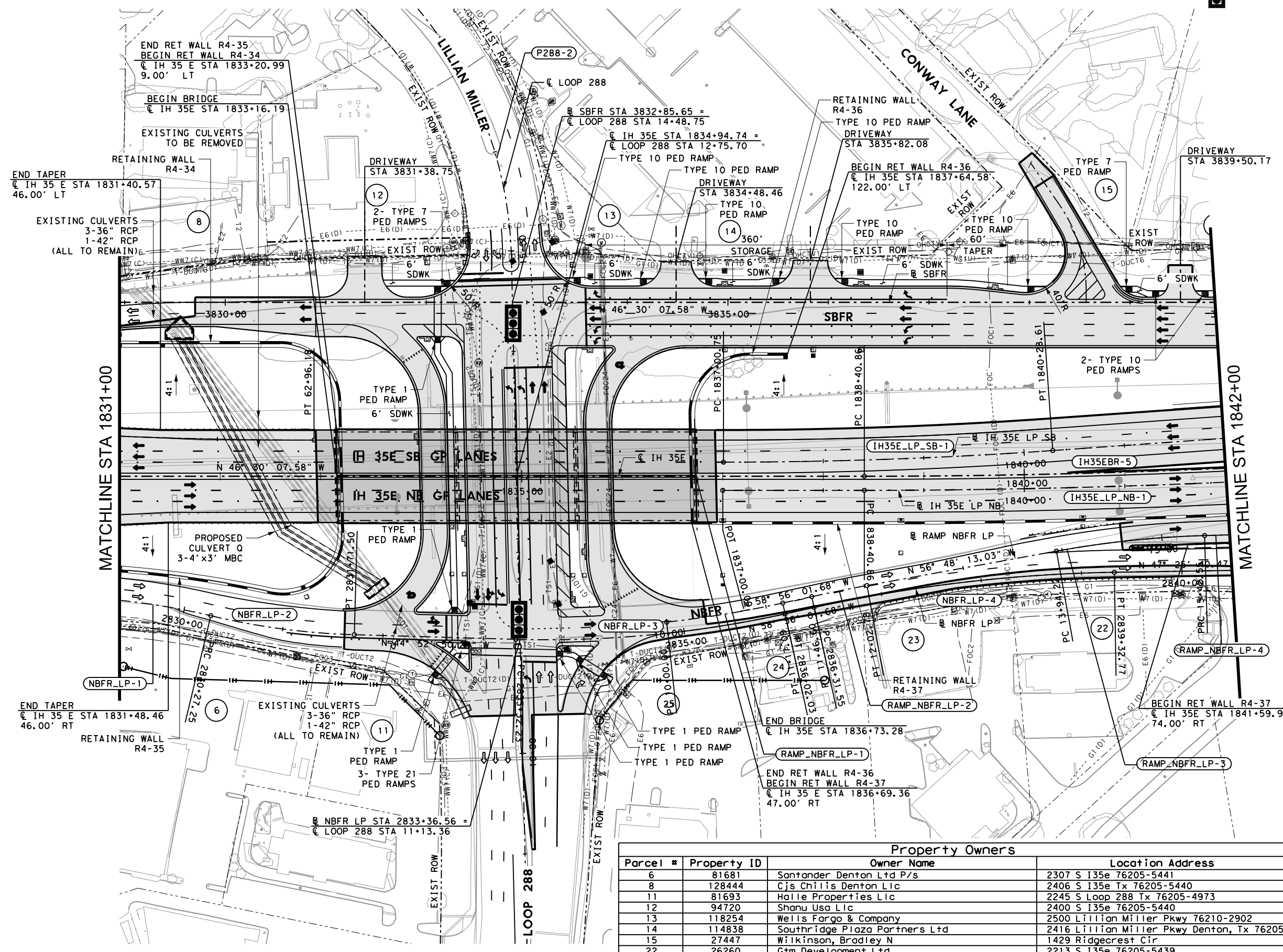


MATCHLINE STA 1831+00

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EXISTING SIGNALIZED INTERSECTION



LEGEND

- RETAINING WALL
- METAL BEAM GUARD FENCE
- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- PROP PAVEMENT
- TYPE 7 PED RAMP
- EXIST BRIDGE REMOVAL
- EXIST PAVEMENT REMOVAL
- EXISTING RIGHT OF WAY
- COA - CONTROL OF ACCESS
- PROPERTY OWNERS

NOTES:

ALL DRIVEWAY RADIUS ARE 25' UNLESS OTHERWISE NOTED.

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SCHEMATIC PREPARED BY:

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ALFREDO LUIS LOPEZ	101155
NAME	P.E. NUMBER
NAME	P.E. NUMBER
6/26/2016	DATE

BCE Brown & Gay Engineers, Inc.
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Tel: 972-464-4800 • www.browngay.com
TBPE Registration No. F-1046



IH 35E

PLAN

IH 35E

STA 1831+00 TO STA 1842+00

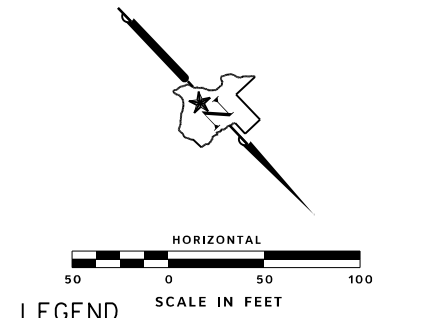
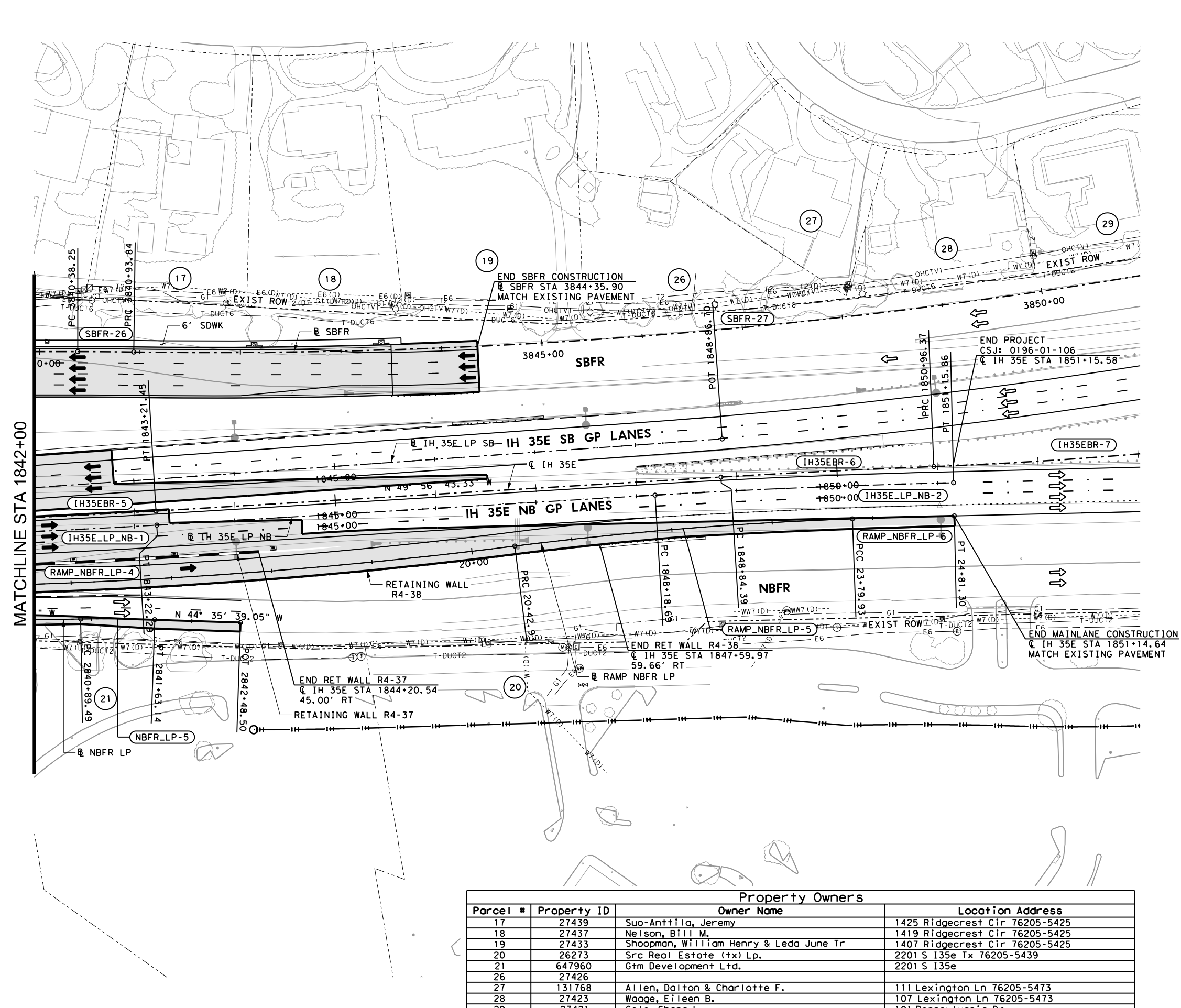
SCALE: 1"=100' SHEET 2 OF 3

Parcel #	Property ID	Owner Name	Location Address
6	81681	Santander Denton Ltd P/s	2307 S 135e 76205-5441
8	128444	Cjs Chilis Denton Lic	2406 S 135e Tx 76205-5440
11	81693	Halle Properties Lic	2245 S Loop 288 Tx 76205-4973
12	94720	Shanu Usa Lic	2400 S 135e 76205-5440
13	118254	Wellis Fargo & Company	2500 Lillian Miller Pkwy 76210-2902
14	114838	Southridge Plaza Partners Ltd	2416 Lillian Miller Pkwy Denton, Tx 76205
15	27447	Wilkinson, Bradley N	1429 Ridgecrest Cir
22	26260	Gtm Development Ltd	2213 S 135e 76205-5439
23	39363	Gtm Development Ltd	2217 S 135e Tx 76205-5439
24	26228	Gtm Development Ltd	2221 S 135e Tx 76205-5439
25	331425	Triton Denton Ef Lic	2229 S 135e Tx

OWNERSHIP INFORMATION OBTAINED FROM DENTON COUNTY COUNTY APPRAISAL DISTRICT (2/2016)

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.		
6	TEXAS	SEE TITLE SHEET	IH 35E		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
DAL	DENTON	0196	01	106	17

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- LEGEND**
- RETAINING WALL
 - METAL BEAM GUARD FENCE
 - PROP TRAFFIC LANE
 - EXIST TRAFFIC LANE
 - PROP PAVEMENT
 - TYPE 7 PED RAMP
 - EXIST BRIDGE REMOVAL
 - EXIST PAVEMENT REMOVAL
 - EXISTING RIGHT OF WAY
 - COA - CONTROL OF ACCESS
 - PROPERTY OWNERS

NOTES:

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ALL PEDESTRIAN RAMPS ARE TYPE 7 (UNLESS OTHERWISE NOTED)

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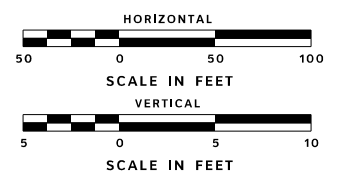
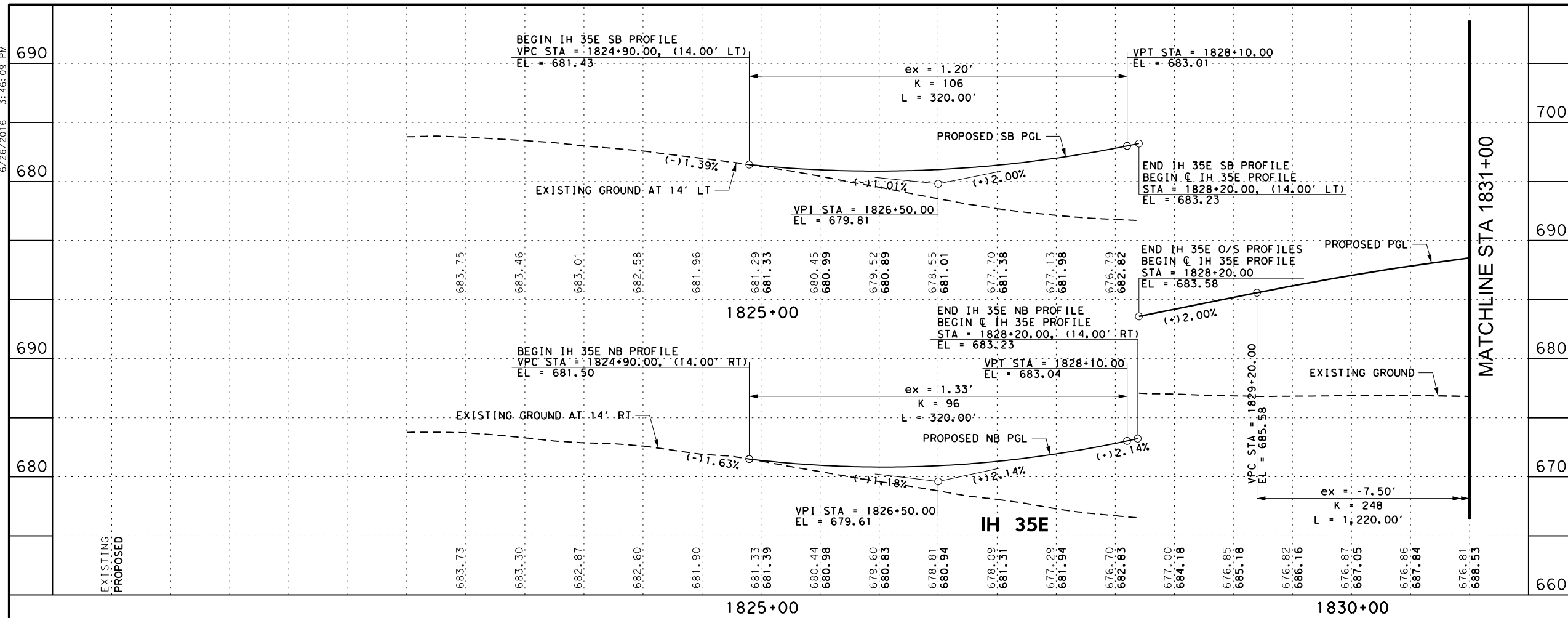
IH 35E				
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IH 35E				
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SCALE: 1"=100'		SHEET 3 OF 3		
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.	
6	TEXAS	SEE TITLE SHEET	IH 35E	
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
DAL	DENTON	0196	01	106
				SHEET NO.
				18

Property Owners			
Parcel #	Property ID	Owner Name	Location Address
17	27439	Suo-Anttila, Jeremy	1425 Ridgecrest Cir 76205-5425
18	27437	Nelson, Bill M.	1419 Ridgecrest Cir 76205-5425
19	27433	Shoopman, William Henry & Leda June Tr	1407 Ridgecrest Cir 76205-5425
20	26273	Src Real Estate (tx) Lp.	2201 S 135e Tx 76205-5439
21	647960	Gtm Development Ltd.	2201 S 135e
26	27426		
27	131768	Allen, Dalton & Charlotte F.	111 Lexington Ln 76205-5473
28	27423	Waage, Eileen B.	107 Lexington Ln 76205-5473
29	27421	Cole, Shana L.	101 Pennsylvania Dr.

OWNERSHIP INFORMATION OBTAINED FROM DENTON COUNTY COUNTY APPRAISAL DISTRICT (2/2016)

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ALFREDO LUIS LOPEZ 101155
NAME P.E. NUMBER

6/26/2016
DATE

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IH 35E

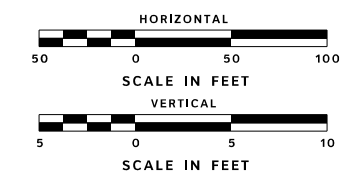
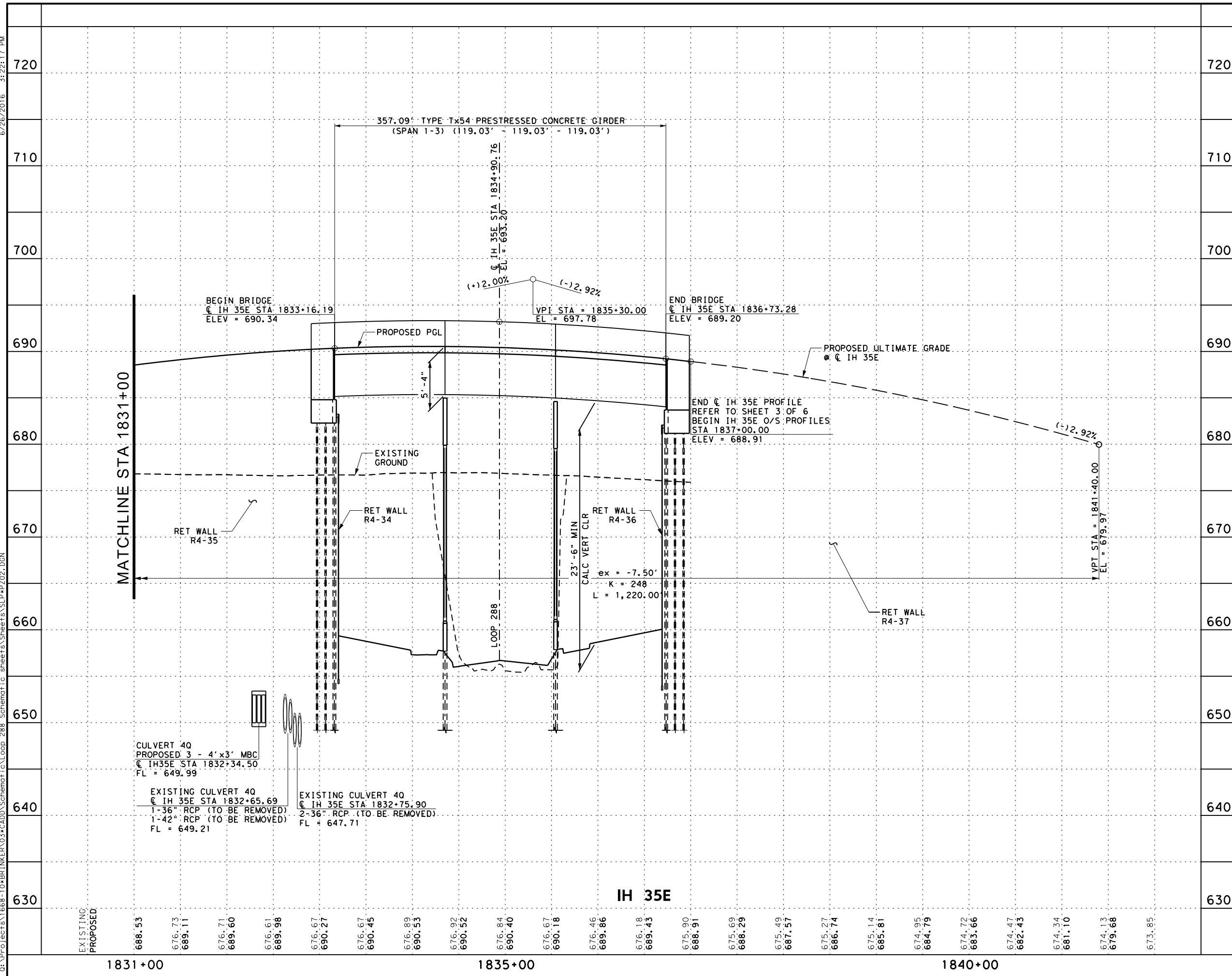
ROADWAY PROFILE

SCALE: H=100' / V=10' SHEET 1 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	19

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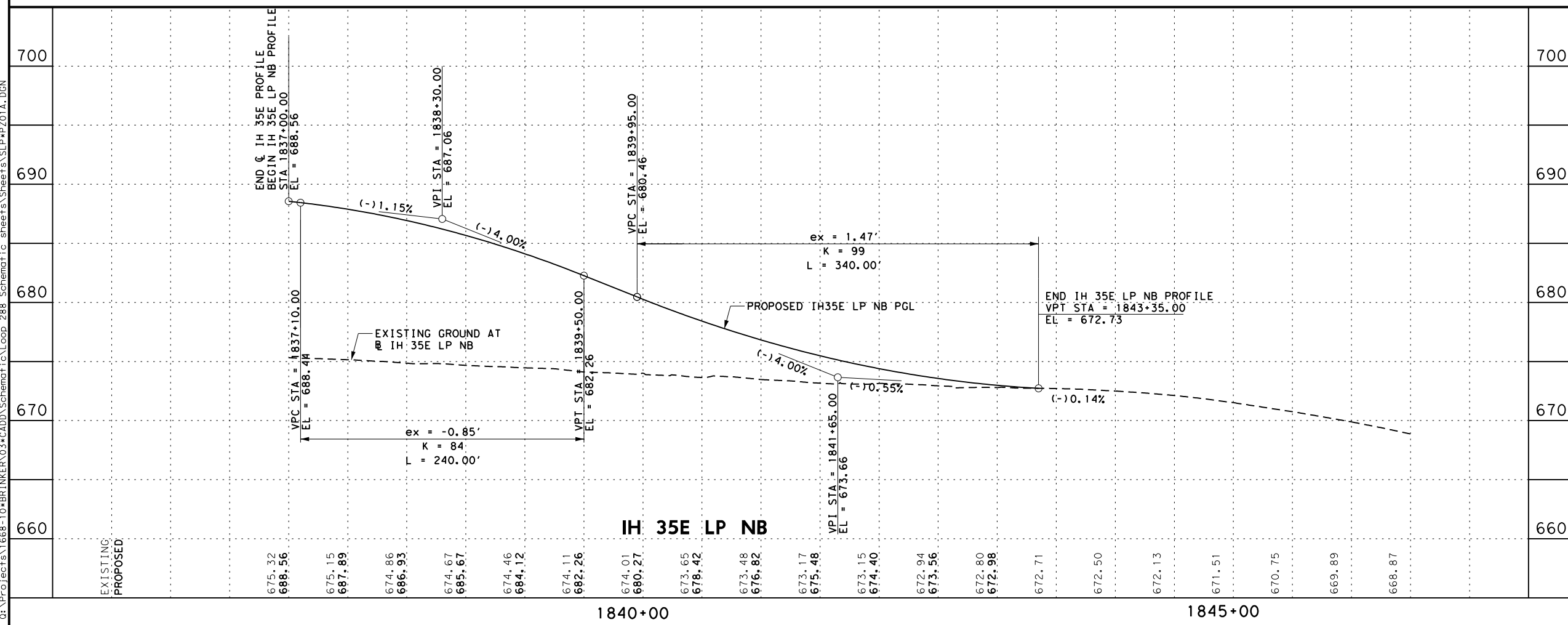
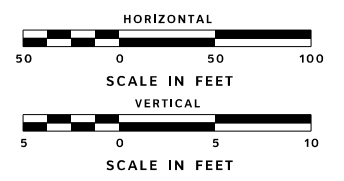
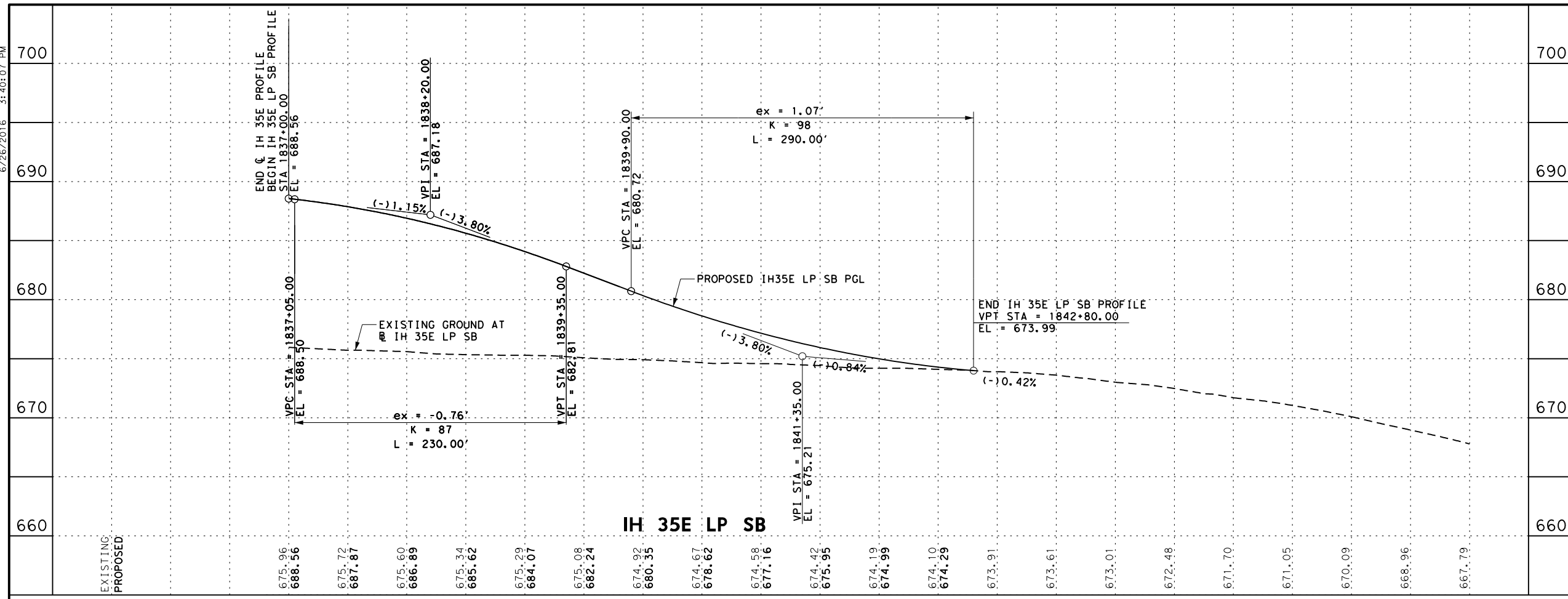
ROADWAY PROFILE

SCALE: H=100' / V=10' SHEET 2 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT		HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET		IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
DAL	DENTON	0196	01	106
				SHEET NO.
				20

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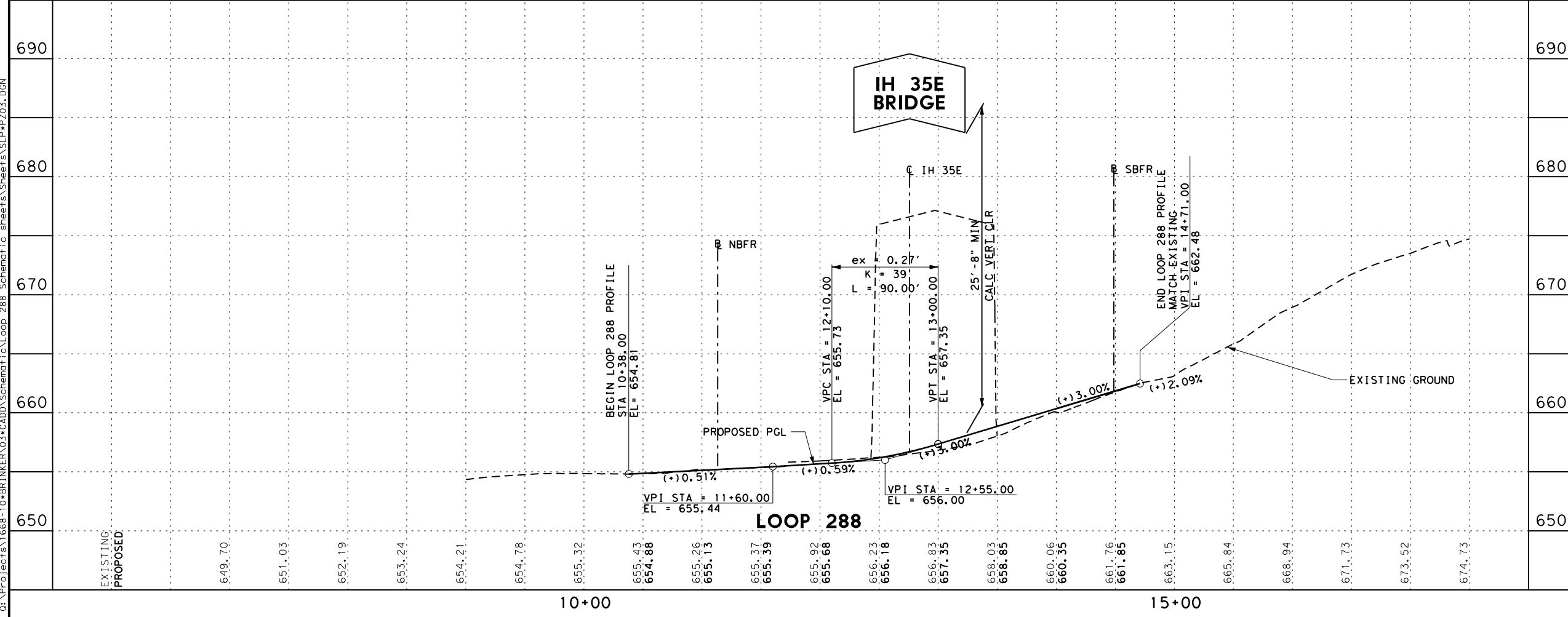
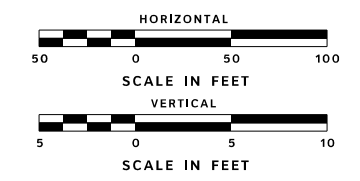
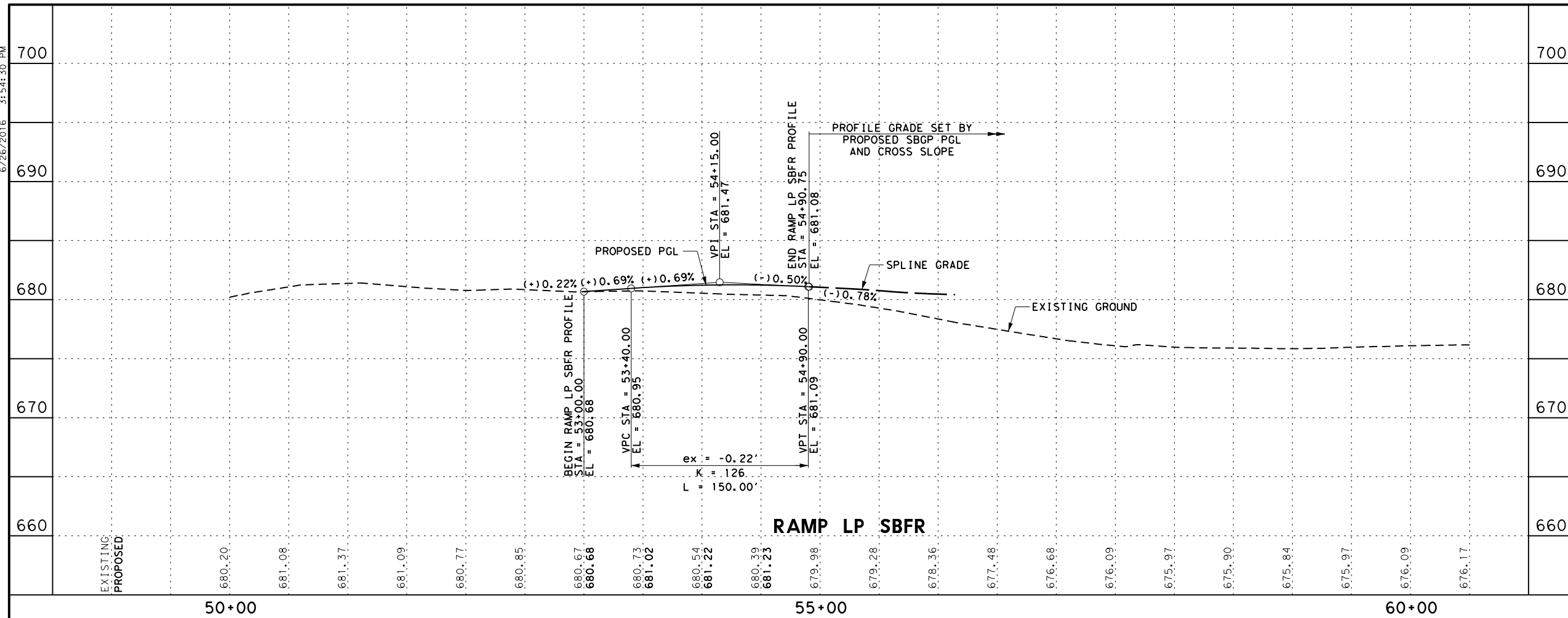
ROADWAY PROFILE

SCALE: H=100' / V=10' SHEET 3 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT		HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET		IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
DAL	DENTON	0196	01	106
				SHEET NO.
				21

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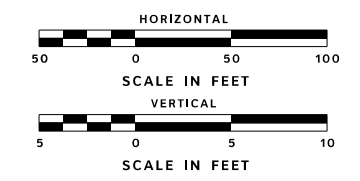
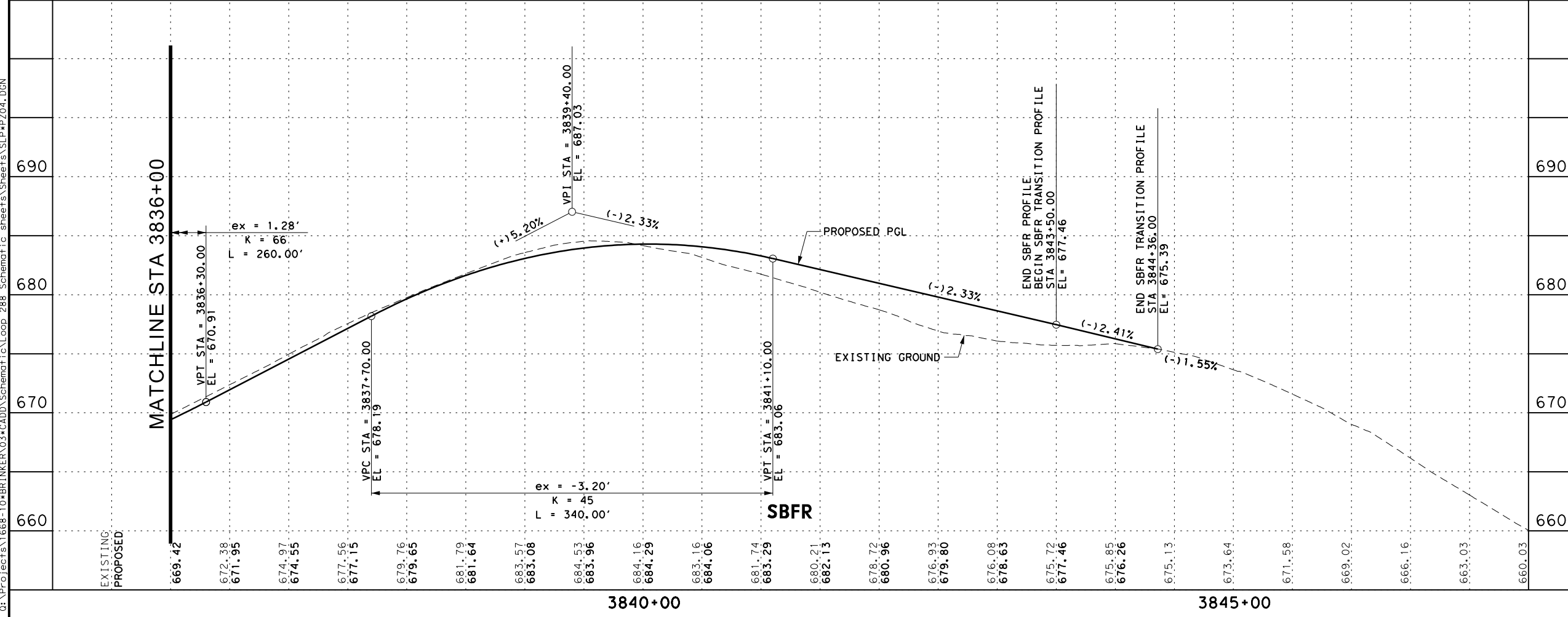
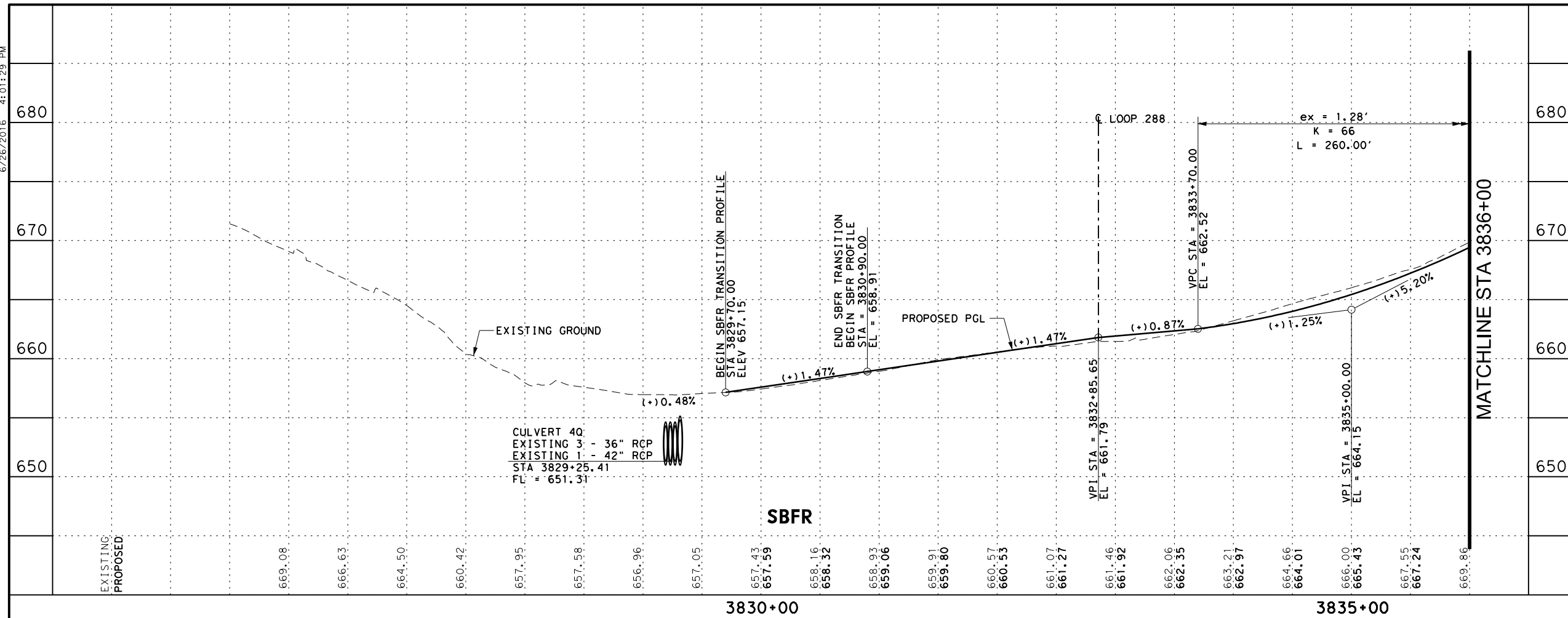
IH 35E
ROADWAY PROFILE

SCALE: H=100' / V=10' SHEET 4 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT		HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET		IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
DAL	DENTON	0196	01	106
				SHEET NO.
				22

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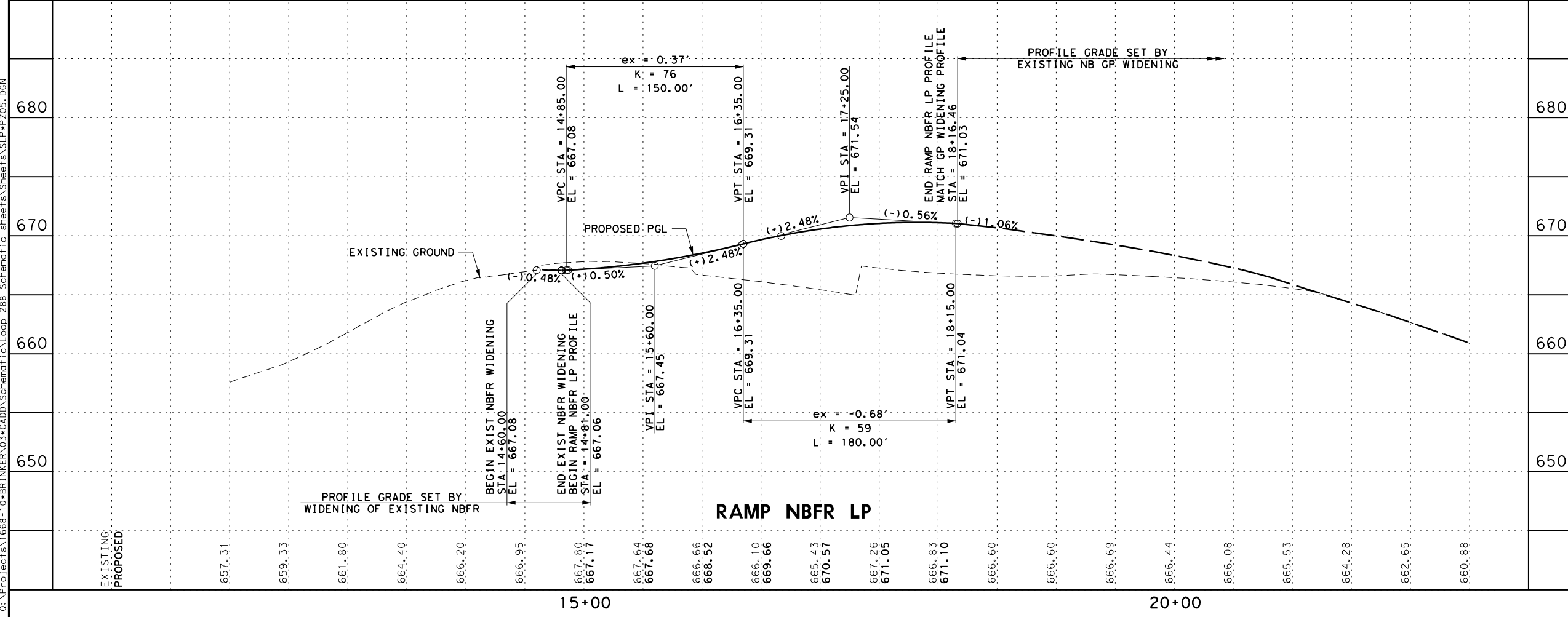
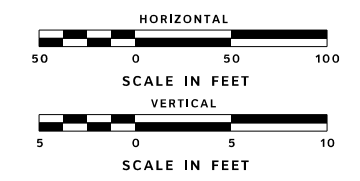
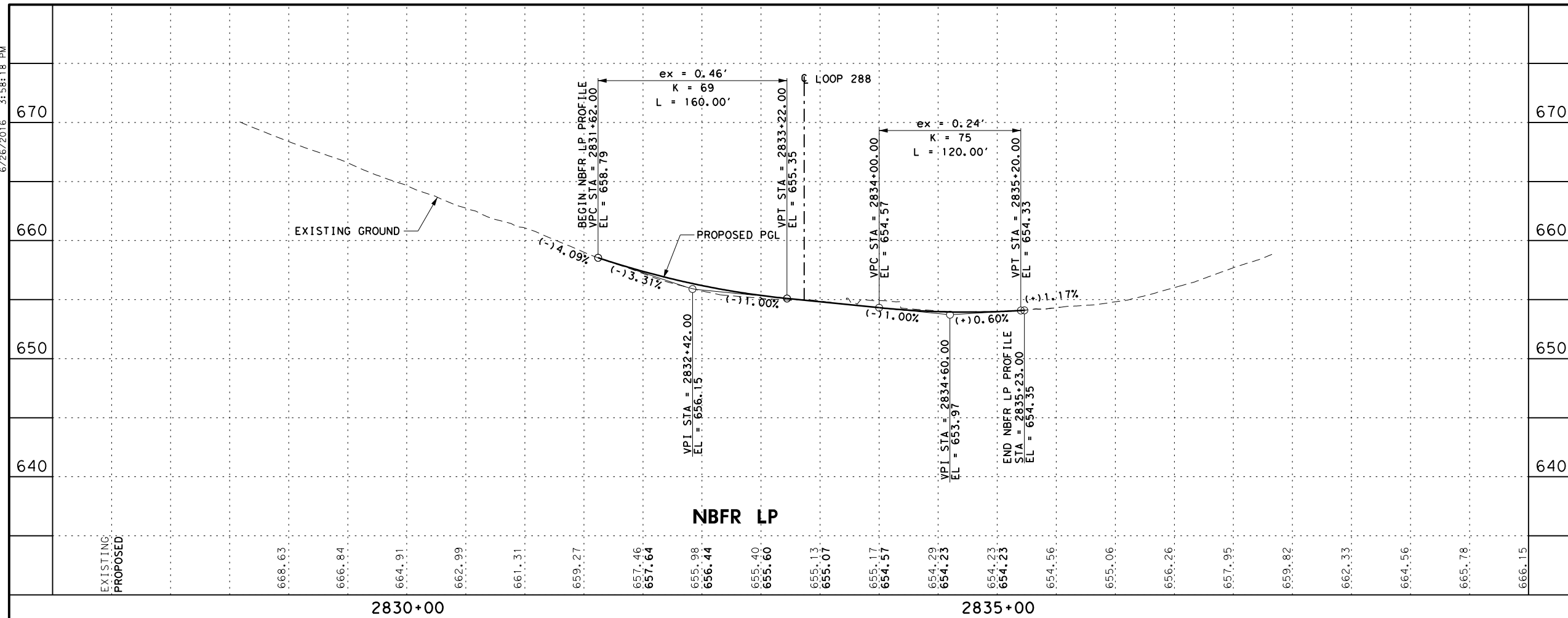
IH 35E
ROADWAY PROFILE

SCALE: H=100' / V=10' SHEET 5 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	23

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SCALE: H=100' / V=10' SHEET 6 OF 6

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET	IH 35E
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
DAL	DENTON	0196	01
		JOB NO.	SHEET NO.
		106	24