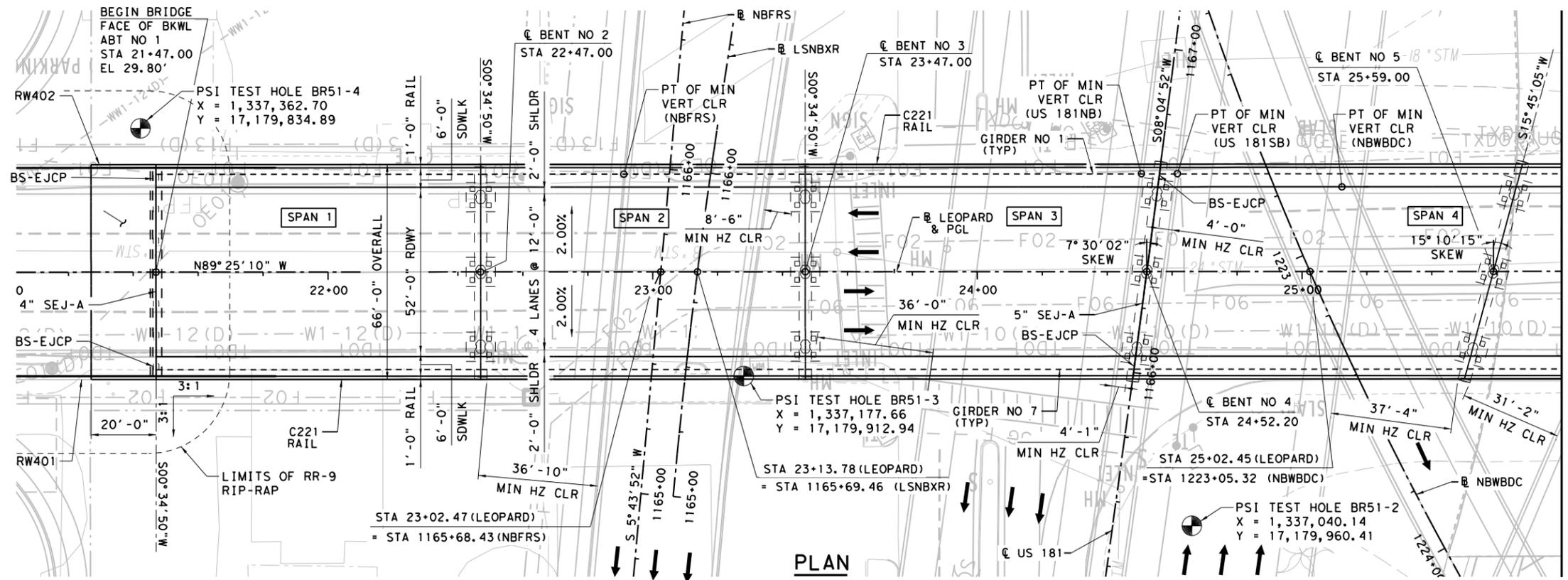


PRELIMINARY NOT FOR CONSTRUCTION, JULY 2017

- NOTES:**
- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
 - ROADWAY HORIZONTAL AND VERTICAL GEOMETRY, WIDTH, SUPERELEVATION, TRAFFIC DIRECTION, EXISTING GROUND LINE, PROPOSED GROUND LINE, AND RIGHT OF WAY DATA PROVIDED BY STANTEC. TOPO DATA PROVIDED BY CIVIL CORP. UTILITY DATA PROVIDED BY KCI.
 - ALL DIMENSIONS ARE EITHER HORIZONTAL OR VERTICAL AND MUST BE CORRECTED FOR GRADE, CROWN AND/OR SUPERELEVATION.
 - ALL SUPERELEVATION TRANSITIONS ARE LINEAR.
 - VERTICAL CLEARANCES ARE CALCULATED FOR THE MOST CRITICAL CONDITION BASED UPON THE ULTIMATE CONDITIONS.
 - FOR CONCRETE GIRDER SPANS, "D" DENOTES BENTS WITH DOWEL BARS AND SLOTTED HOLES AT ENDS OF EXTERIOR GIRDER ONLY.
 - PILE TIP ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE GEOTECHNICAL ENGINEER OF RECORD OR AN AUTHORIZED REPRESENTATIVE BASED UPON ACTUAL SOIL CONDITIONS ENCOUNTERED AT EACH PILE LOCATION.
 - CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING STRUCTURES AND UTILITIES PRIOR TO CONSTRUCTION.
 - SEE "TYPICAL SECTION" SHEET FOR TYPICAL SECTION.
 - SEE "BORING LOG DATA" SHEET FOR BORING LOG INFORMATION.
 - SEE "FOUNDATION LAYOUT" SHEET FOR DRAINAGE AND UTILITY INFORMATION.
 - SOIL EXPLORATION DATA AND PILE TIP ELEVATION PROVIDED BY PSI.
 - BRIDGE NOT DESIGNED FOR OVERLAY LOAD.
 - SEE "ROADWAY ILLUMINATION" SHEETS FOR UNDERPASS LIGHT FIXTURE DETAILS.
 - SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.

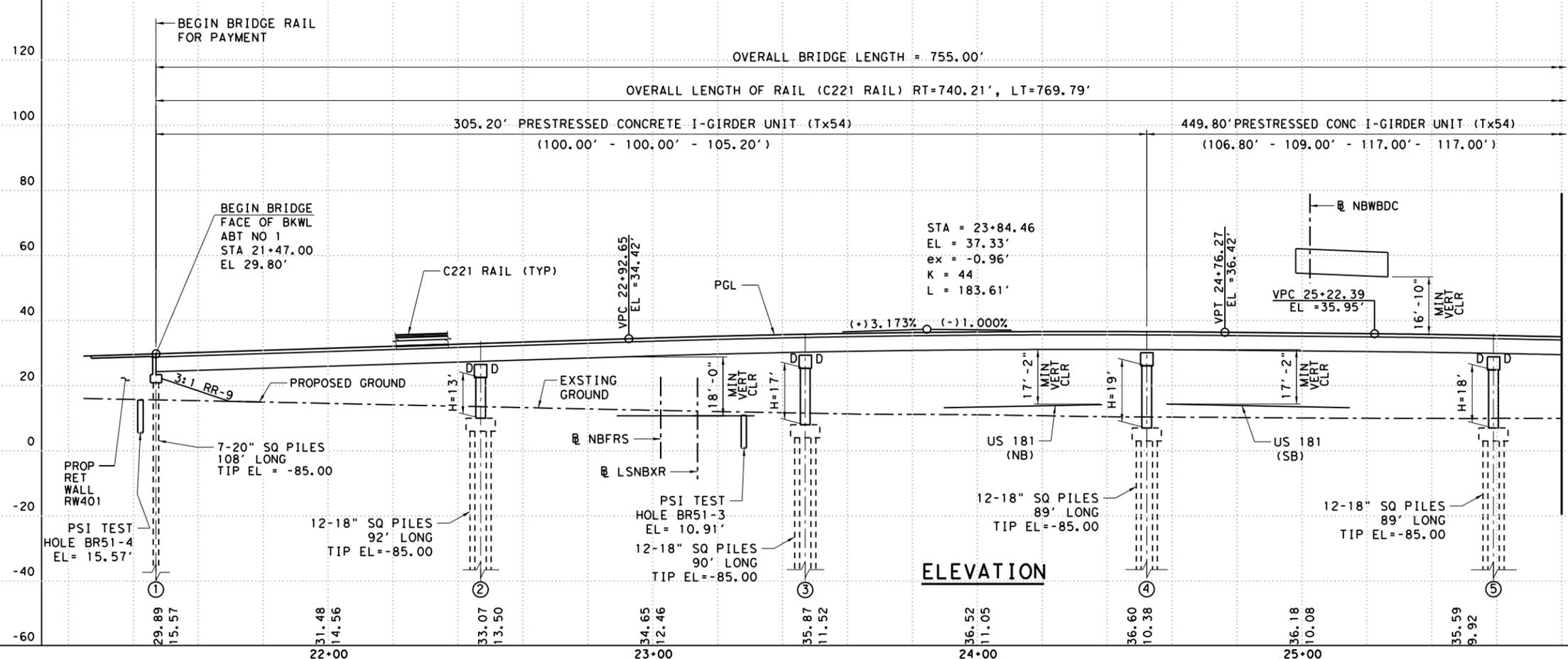


DESIGN DATA

Curve	P.I. Station	Delta	Degree	Tangent	Length	Radius	P.C. Station	P.T. Station
CURVE NBWDC-4	1229+62.75	96° 18' 10.07" (LT)	5° 12' 31.35"	1,228.18	1,848.88	1,100.00	1217+34.56	1235+83.44
CURVE LSNBXR-1	1165+58.87	03° 31' 52.13" (RT)	03° 00' 00.00"	58.87	117.69	1,909.86	1165+00.00	1166+17.70
CURVE US181-5	1150+01.38	37° 37' 31.75" (LT)	0° 31' 58.74"	3,662.27	7,059.40	10,750.00	1113+39.11	1183+98.51

LEGEND

- ← PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- ⊙ BORE HOLE



HL-93 LOADING

FIGG BRIDGE ENGINEERS, INC.
PRELIMINARY - FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

CESAR FERNANDES 98112 07/31/2017
TBPE FIRM #F-4883 P.E. NO. DATE

NO.	DATE	REVISION	APPROVED

FLATIRON/DAGADOS LLC

FIGG
TBPE, FIRM # F-4883

Texas Department of Transportation

**US 181 HARBOR BRIDGE
BRIDGE LAYOUT**

**US 181 UNDERPASS
AT LEOPARD STREET
BRIDGE 11**

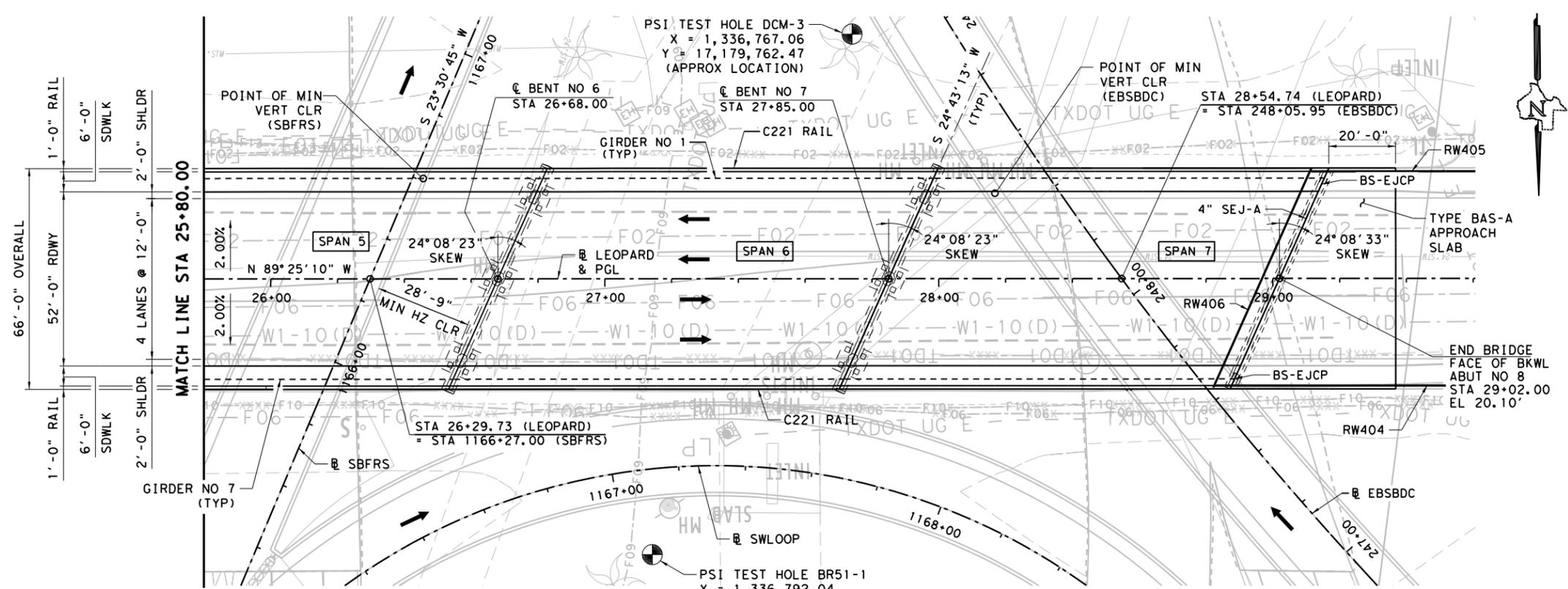
SCALE: 1"=40'-0" SHEET 1 OF 2

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DMS	X	(See Title Sheet)	US 181
GRAPHICS	STATE	DISTRICT	COUNTY
SGF	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
DAK	0101	06	095
CHECK			
CF			

RB11
001

FILE: c:\pwworking\dms76186\11HBRBL01.dgn
DATE: 7/27/2017 TIME: 10:04:15 AM USER: dschopen

- NOTES:**
- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
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 - SEE "FOUNDATION LAYOUT" SHEET FOR DRAINAGE AND UTILITY INFORMATION.
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 - BRIDGE NOT DESIGNED FOR OVERLAY LOAD.
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 - SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.

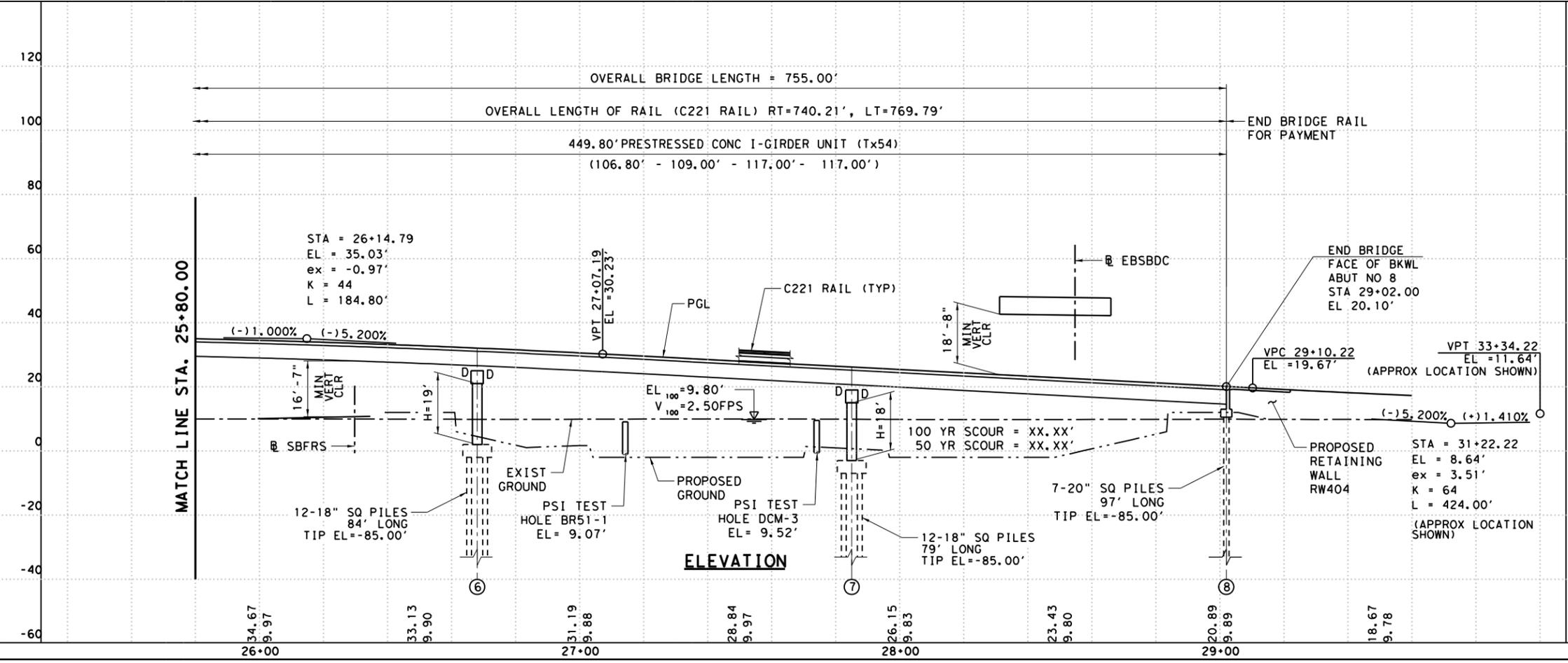


CURVE SWLOOP-1		CURVE EBSBDC-1	
P. I. STATION		P. I. STATION	
1168+69.30		248+36.29	
DELTA = 125° 32' 59.70" (RT)		DELTA = 85° 22' 00.56" (RT)	
DEGREE = 30° 09' 20.42"		DEGREE = 5° 19' 47.42"	
TANGENT = 369.30		TANGENT = 991.41	
LENGTH = 416.34		LENGTH = 1,601.68	
RADIUS = 190.00		RADIUS = 1,075.00	
P.C. STATION = 1165+00.00		P.C. STATION = 238+44.88	
P.C.C. STATION = 1169+16.34		P.T. STATION = 254+46.56	

PLAN

LEGEND

- ➔ PROPOSED TRAFFIC FLOW
- ➔ EXISTING TRAFFIC FLOW
- ⊙ BORE HOLE



ELEVATION

FIGG BRIDGE ENGINEERS, INC.
PRELIMINARY - FOR INTERIM REVIEW ONLY

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TBPE FIRM #F-4883 P.E. NO. DATE

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC

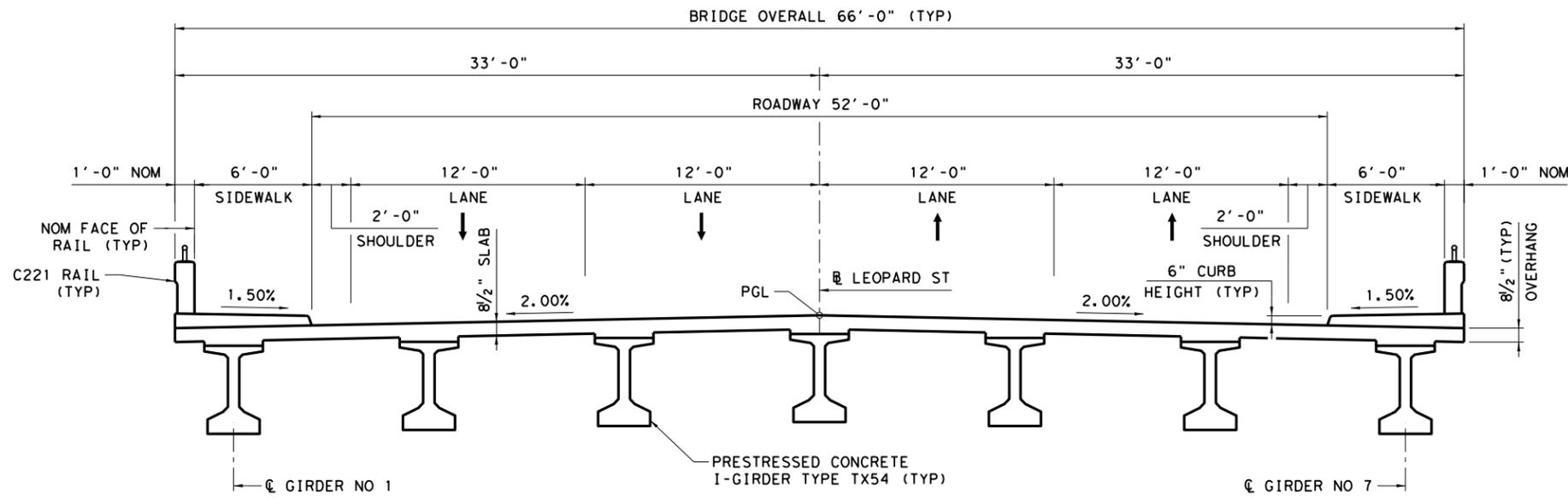
FIGG
TBPE, FIRM # F-4883

US 181 HARBOR BRIDGE
BRIDGE LAYOUT
US 181 UNDERPASS AT LEOPARD STREET
BRIDGE 11

SCALE: 1"=40'-0" SHEET 2 OF 2

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DMS	X	(See Title Sheet)	US 181
GRAPHICS	STATE	DISTRICT	COUNTY
SGF	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
DAK	0101	06	095
CHECK	CF		

FILE: c:\pwworking\ms76186\11HBRBLO2.dgn USER: dschopen DATE: 7/27/2017 TIME: 9:58:18 AM



TYPICAL TRANSVERSE SECTION
(ALL SPANS)

- NOTES:**
1. FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
 2. SEE TxDOT STANDARD DRAWING TYPE C221 FOR BRIDGE RAIL DETAILS.
 3. SEE TxDOT STANDARD DRAWING BRSM FOR SIDEWALK DETAILS.

LEGEND
← PROPOSED TRAFFIC FLOW

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

 FLATIRON DRAGADOS LLC	 FIGG <small>TBPE, FIRM # F-4883</small>
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US 181 HARBOR BRIDGE
TYPICAL SECTION
(GENERAL)
US 181 UNDERPASS
AT LEOPARD STREET
BRIDGE 11

SCALE: 1/8" = 1'-0" SHEET 1 OF 1

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DMS	X	(See Title Sheet)	US 181
GRAPHICS	STATE	DISTRICT	COUNTY
SGF	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
DAK	0101	06	095
CHECK	CF		
			RB11
			003