

NOTES:

- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
- 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 AND INTERIM SECTIONS.
- "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 SECTIONS.
- SEE "BORING LOG DATA" SHEETS FOR BORING LOG INFORMATION.
- SEE "FOUNDATION LAYOUT" SHEETS FOR DRAINAGE AND UTILITY INFORMATION.
- SOIL EXPLORATION DATA PROVIDED BY PSI.
- FOR HVJ BORING DATA SEE "HVJ GEOTECHNICAL DATA REPORT" DATED 9/29/2014.
- SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.
- SEE ROADWAY ILLUMINATION SHEETS FOR UNDERPASS LIGHT FIXTURE DETAILS.
- REMOVE ALL EXISTING SUPERSTRUCTURE ELEMENTS AND ALL SUBSTRUCTURE ELEMENTS TO A MINIMUM OF TWO FEET BELOW FINAL GRADE ELEVATION.

LEGEND

- PROP DRAINAGE INLET
- PROP DRAINAGE INLET W/GRATE
- PROP TRAFFIC ILLUM JUNCTION BOX
- PROP TRAFFIC ILLUM GB
- PROPOSED TRAFFIC FLOW
- BORE HOLE
- EXISTING FOUNDATION
- TRAFFIC ILLUMINATION

DESIGN DATA

NBI NO XX-XXX-XXXXXX-XXX
FUNC CLASS:
DESIGN SPEED:
ADT: BRIDGE 5A
(2015) =
(2035) =

PLAN

ELEVATION

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BY OR UNDER THE SUPERVISION OF:

NICK N NIKPOUR 122413 08/04/2017
TBPE FIRM #F-6324 P.E. NO. DATE

HL-93 LOADING

NO. DATE REVISION APPROVED

FLATIRON/DAGADOS LLC Stantec
Engineered by Stantec Consulting Services Inc.
Texas Registered Engineering Firm F-6324

Texas Department of Transportation
2017

US 181 HARBOR BRIDGE
BRIDGE LAYOUT

IH 37 NBML OVERPASS AT
US 181 ML NBFR & SBFR
BRIDGE 5A

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

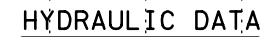
DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SS	6	HPX597 (1)		IH 37
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
JG	TEXAS	CRP	NUECES	RB05A
CHECK	CONTROL	SECTION	JOB	001
FF	0101	06	095	



NOTES:

- * NORMAL TO C IH37
** NORMAL TO B PAWBXR

	PROP DRAINAGE INLET
	PROP DRAINAGE INLET W/GRATE
	PROP TRAFFIC ILLUM JUNCTION BOX
	PROP TRAFFIC ILLUM GB
	PROPOSED TRAFFIC FLOW
	BORE HOLE
	FLUME
	EXISTING FOUNDATION
	TRAFFIC ILLUMINATION



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Texas Registered Engineering Firm F-6324



Texas Department of Transportation 2017

US 181 HARBOR BRIDGE BRIDGE LAYOUT

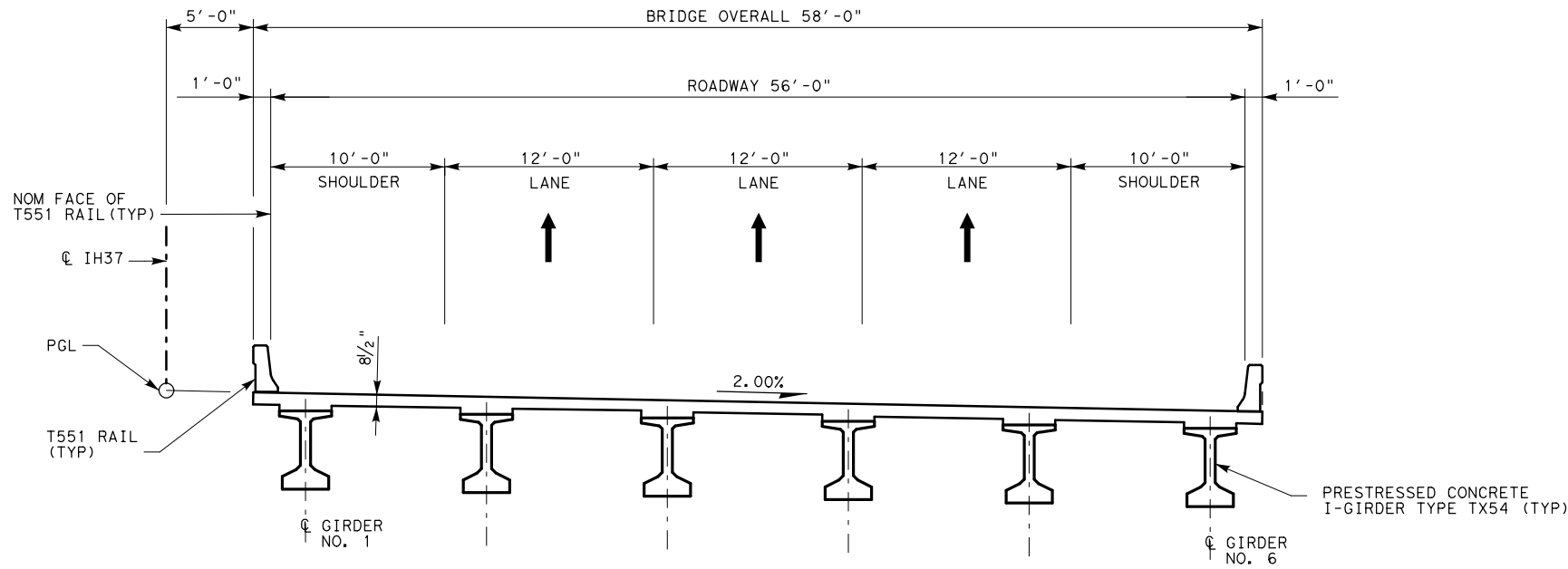
IH 37 NBML OVERPASS AT
US 181 ML, NBFR, & SBFR
BRIDGE 5A

SCALE: 1" = 40' - 0"

SHEET 2 OF 2

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SS	6	HPX597 (1)		IH 37
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
JG	TEXAS	CRP	NUECES	RB05A 002
CHECK FF	CONTROL	SECTION	JOB	
CHECK FF	0101	06	095	

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TYPICAL SECTION
(SPANS 1-3)

NOTES:

1. FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
2. SEE TYPE T551 STANDARD FOR BRIDGE RAIL DETAIL.

PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017

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NO.	DATE	REVISION
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**FLATIRON/DRAGADOS LLC**

**Stantec**
Engineered by Stantec Consulting Services Inc.
Texas Registered Engineering Firm F-6324

**Texas Department of Transportation**

US 181 HARBOR BRIDGE
TYPICAL SECTION

IH 37 NBML OVERPASS AT
US 181 ML, NBFR, & SBFR
BRIDGE 5A

SCALE: 1" = 10'-0" SHEET 1 OF 2

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NICK N NIKPOUR 122413 08/04/2017
TBPE FIRM #F-6324 P.E. NO. DATE

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
SS	6	HPX597 (1)	IH 37
GRAPHICS	STATE	DISTRICT	COUNTY
JG	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
FF	0101	06	095

1. SEE SHEET 1 OF 2 FOR GENERAL NOTES.

BRIDGE OVERALL VARIES FROM 58'-0" TO 61'-5 1/4"

ROADWAY VARIES FROM 56'-0" TO 59'-5 1/4"

1'-0" **

10'-0" SHOULDER

12'-0" LANE

12'-0" LANE

VARIES FROM 12'-0" TO 16'-2" * LANE

VARIES FROM 10'-0" TO 9'-3" ** SHOULDER

NOM FACE OF T551 RAIL (TYP)

CL IH37

PGL

T551 RAIL (TYP)

8 1/2"

2.00%

CL PAWBXR

CL GIRDER NO. 1

CL GIRDER NO. 9

PRESTRESSED CONCRETE I-GIRDER TYPE TX54 (TYP)

Diagram illustrating the cross-section of a bridge deck, showing dimensions and components:

- Overall Dimensions:**
 - BRIDGE OVERALL VARIES FROM 61'-5 1/4" TO 65'-0 1/4" *
 - ROADWAY VARIES 59'-5 1/4" TO 63'-0 1/4" *
 - Shoulder width on the right: 1'-0" **
- Deck Components and Dimensions:**
 - SHOULDER: 10'-0"
 - LANE: 12'-0"
 - LANE: 12'-0"
 - LANE: VARIES FROM 16'-2" * TO 20'-0 1/2" *
 - SHOULDER: VARIES FROM 9'-3" ** TO 8'-11 1/4" **
- Structural Details:**
 - NOM FACE OF T551 RAIL (TYP)
 - CL IH37
 - PGL
 - T551 RAIL (TYP)
 - PAWBXR
 - 2.00% (Slope)
 - 8/2"
 - CL GIRDER NO. 1
 - CL GIRDER NO. 7
 - PRESTRESSED CONCRETE I-GIRDER TYPE TX54 (TYP)

TYPICAL SECTION
(SPAN 5)

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 FLATIRON/Dragados LLC				 Stantec Engineered by Stantec Consulting Services Inc. Texas Registered Engineering Firm F-6324			
 Texas Department of Transportation [®] 2017							
US 181 HARBOR BRIDGE TYPICAL SECTION IH 37 NBML OVERPASS AT US 181 ML, NBFR, & SBFR BRIDGE 5A							
SCALE: 1" = 10' - 0"				SHEET 2 OF 2			
DESIGN SS	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.		
GRAPHICS JG	6	HPX597 (1)			IH 37		
CHECK FF	STATE	DISTRICT	COUNTY		SHEET NO.		
CHECK FF	TEXAS	CRP	NUECES		RB05A 004		
	CONTROL	SECTION	JOB				
	0101	06	095				