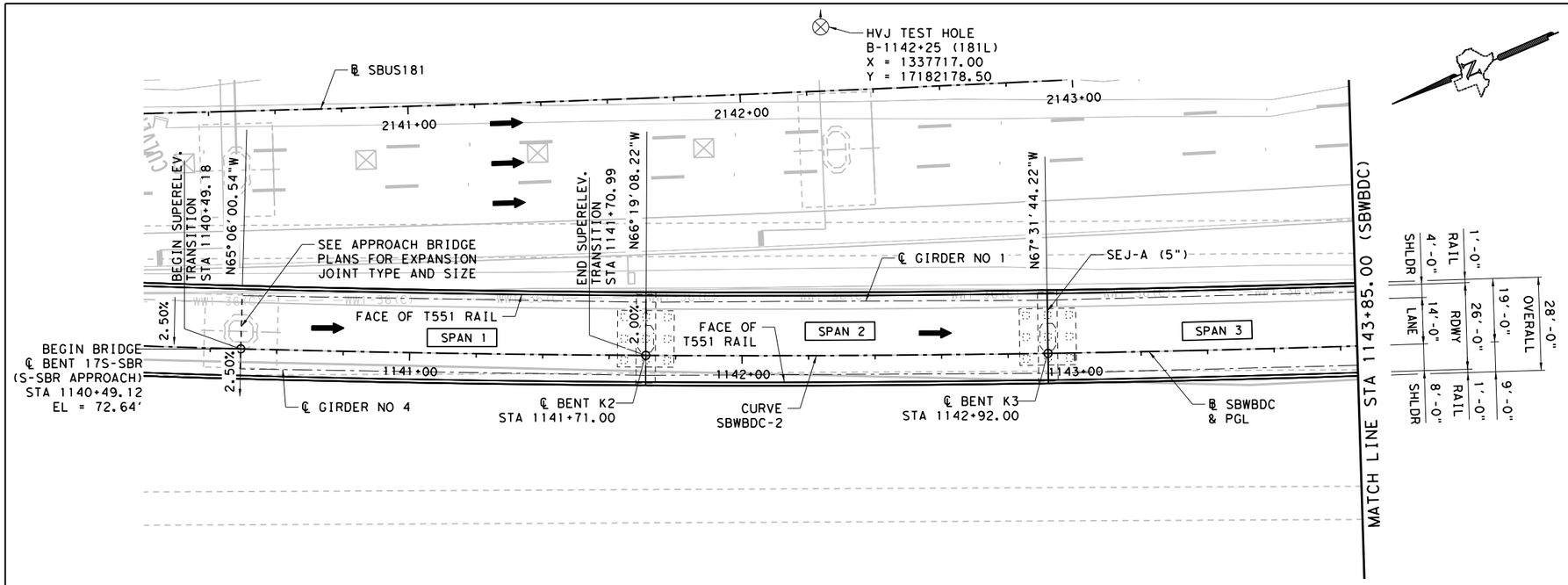

PLAN

NOTES:

1. SEE "GENERAL NOTES" SHEETS FOR GENERAL NOTES.
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12. SOIL EXPLORATION DATA PROVIDED BY PSI.
13. SEE HVJ GEOTECHNICAL DATA REPORT DATED 9/29/2014 FOR HVJ BORING DATA .
14. BRIDGE NOT DESIGNED FOR OVERLAY LOAD.

CURVE SBWBDC-2

P.I. STATION		1140+75.95
DELTA	=	8°24'25.65" (LT)
DEGREE	=	1°00'00.00"
TANGENT	=	421.11'
LENGTH	=	840.71'
RADIUS	=	5,729.58'
P.C. STATION		1136+54.83
P.T. STATION		1144+95.55

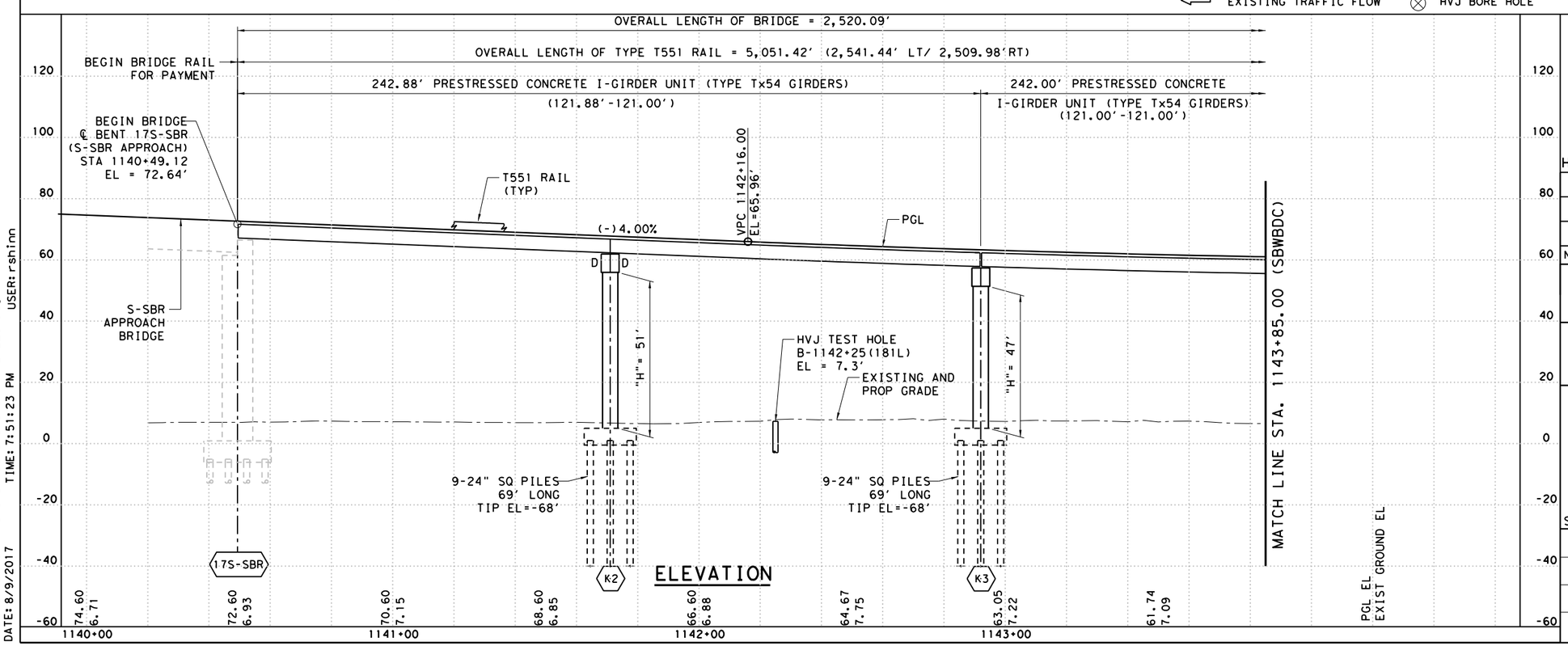
DESIGN DATA

NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-K
(2023) = 10,160
(2035) = 12,160

ALL BENTS RADIAL TO ALIGNMENT UNLESS NOTED OTHERWISE

LEGEND

PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW
PSI BORE HOLE
HVJ BORE HOLE



ELEVATION

PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017

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

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CESAR FERNANDES 98112 08/04/2017
TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC
FIGG TBPE, FIRM # F-4883
Texas Department of Transportation 2017

US 181 HARBOR BRIDGE

BRIDGE LAYOUT

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

SCALE: 1"=40'-0" SHEET 1 OF 7

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS MJR	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK RLS	TEXAS	CRP	NUECES	RB14 001
CHECK CF	CONTROL 0101	SECTION 06	JOB 095	

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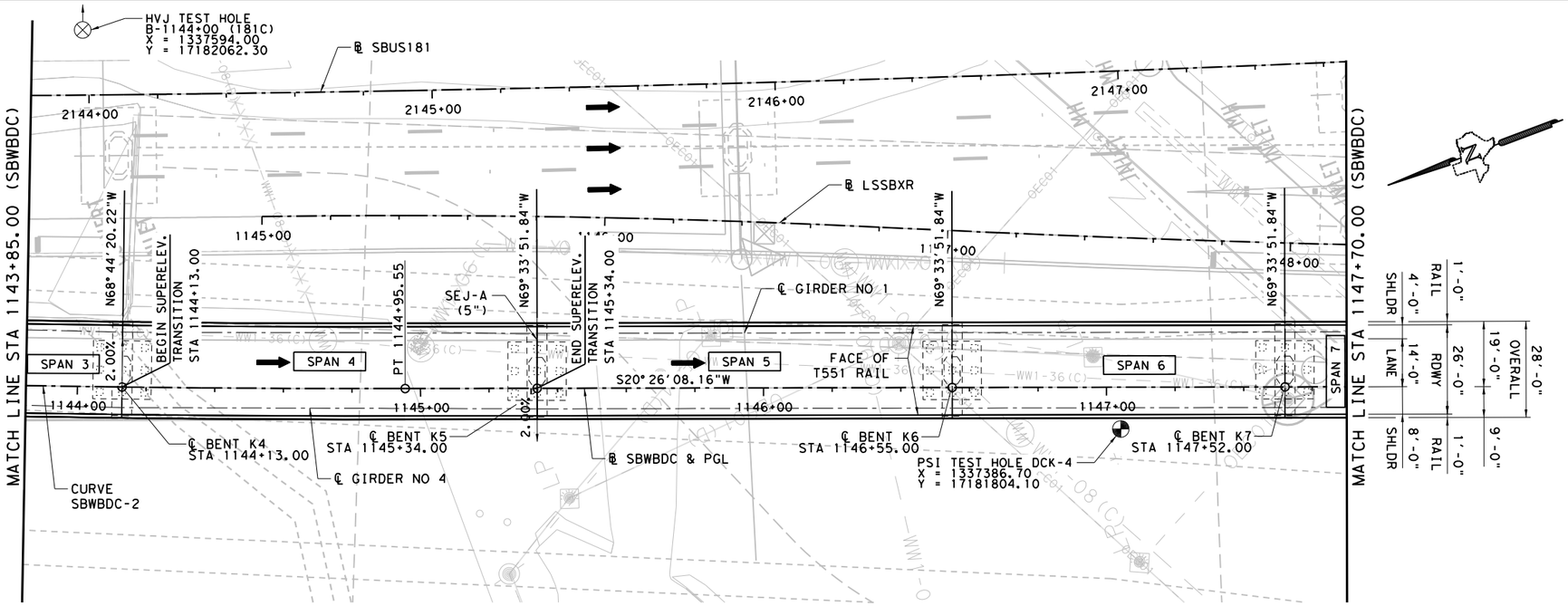

PLAN

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CURVE SBWBDC-2

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(2035) = 12,160

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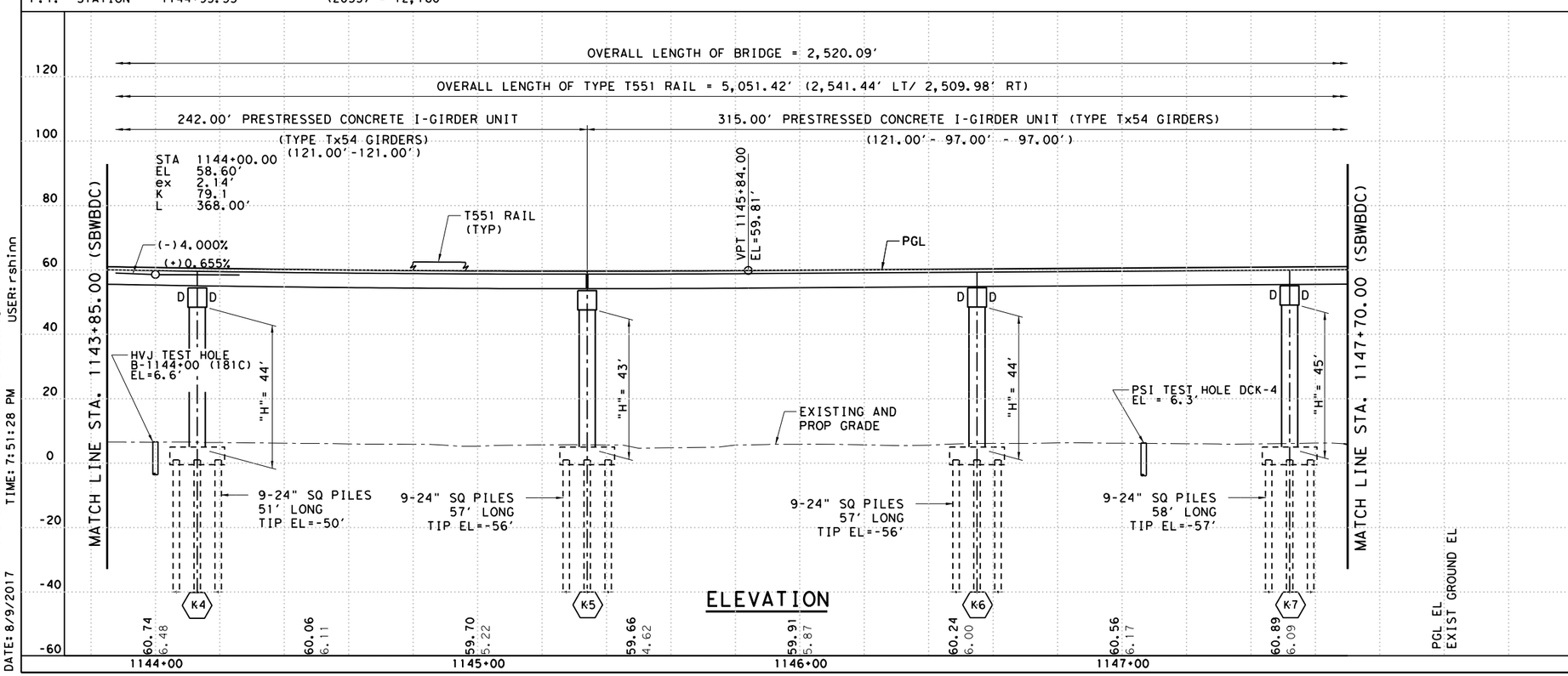
LEGEND
PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW
PSI BORE HOLE
HVJ BORE HOLE



ELEVATION

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CESAR FERNANDES 98112 08/04/2017
TBPE FIRM #F-4883 P.E. NO. DATE

PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC
FIGG TBPE, FIRM # F-4883
Texas Department of Transportation 2017

US 181 HARBOR BRIDGE

BRIDGE LAYOUT

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

SCALE: 1"=40'-0" SHEET 2 OF 7

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS MJR	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK RLS	TEXAS	CRP	NUECES	RB14 002
CHECK	CONTROL	SECTION	JOB	
CF	0101	06	095	

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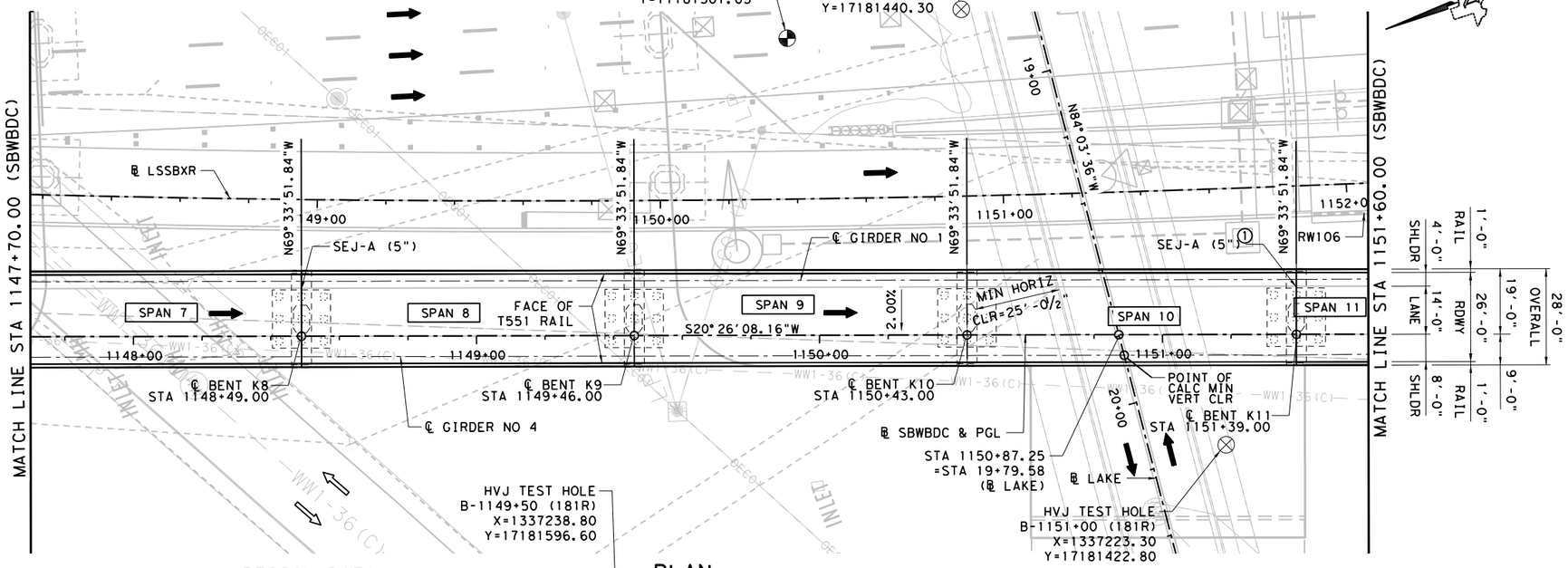

DESIGN DATA

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FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-K
(2023) = 10,160
(2035) = 12,160

PLAN

ALL BENTS RADIAL TO ALIGNMENT UNLESS NOTED OTHERWISE

LEGEND

- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PSI BORE HOLE
- HVJ BORE HOLE

NOTES:

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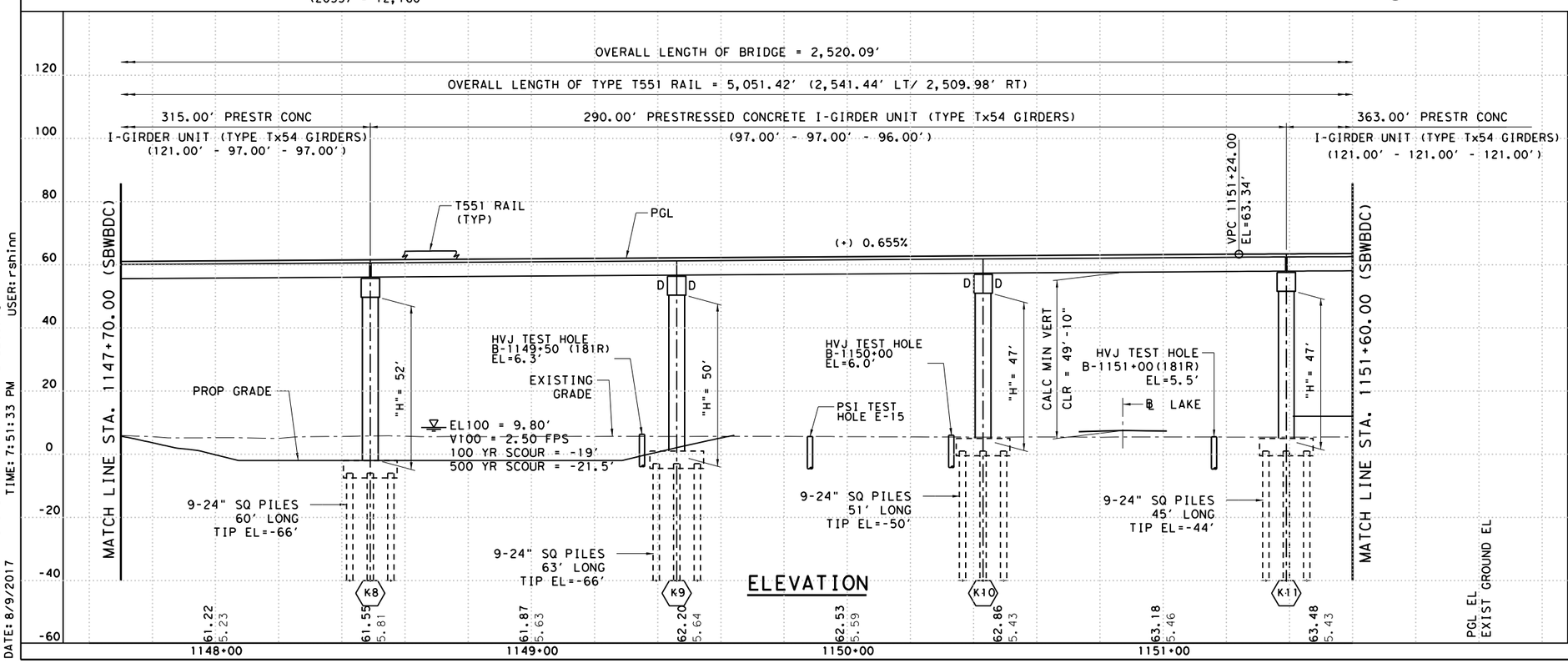
14. BRIDGE NOT DESIGNED FOR OVERLAY LOAD.

① D.S. BROWN SEAL TYPE A2R-XTRA, SHOWN ON SEJ-A STANDARD SHEET, MUST BE USED AT THIS LOCATION.

PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017



ELEVATION

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CESAR FERNANDES 98112 08/04/2017
TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC
FIGG TBPE, FIRM # F-4883
Texas Department of Transportation 2017

US 181 HARBOR BRIDGE

BRIDGE LAYOUT

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

SCALE: 1"=40'-0" SHEET 3 OF 7

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS / MJR	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK / RLS	TEXAS	CRP	NUECES	RB14 003
CHECK	CONTROL	SECTION	JOB	
CF	0101	06	095	

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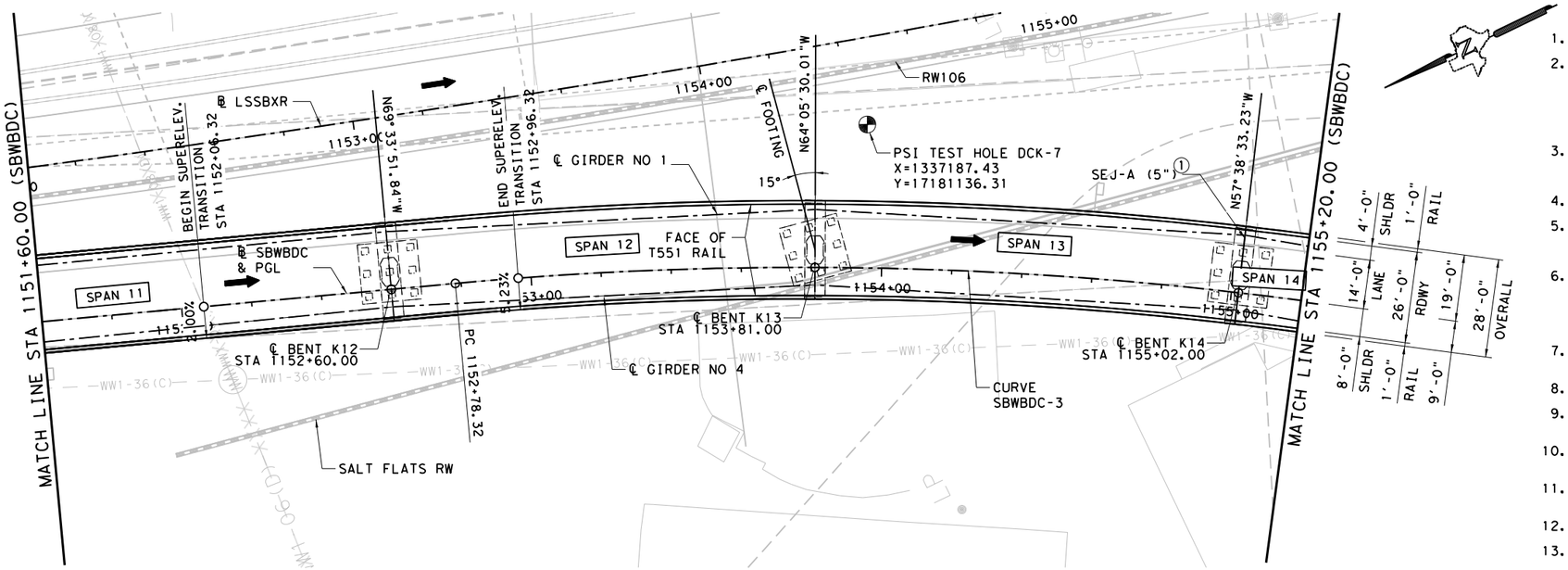

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PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017

CURVE SBWBDC-3

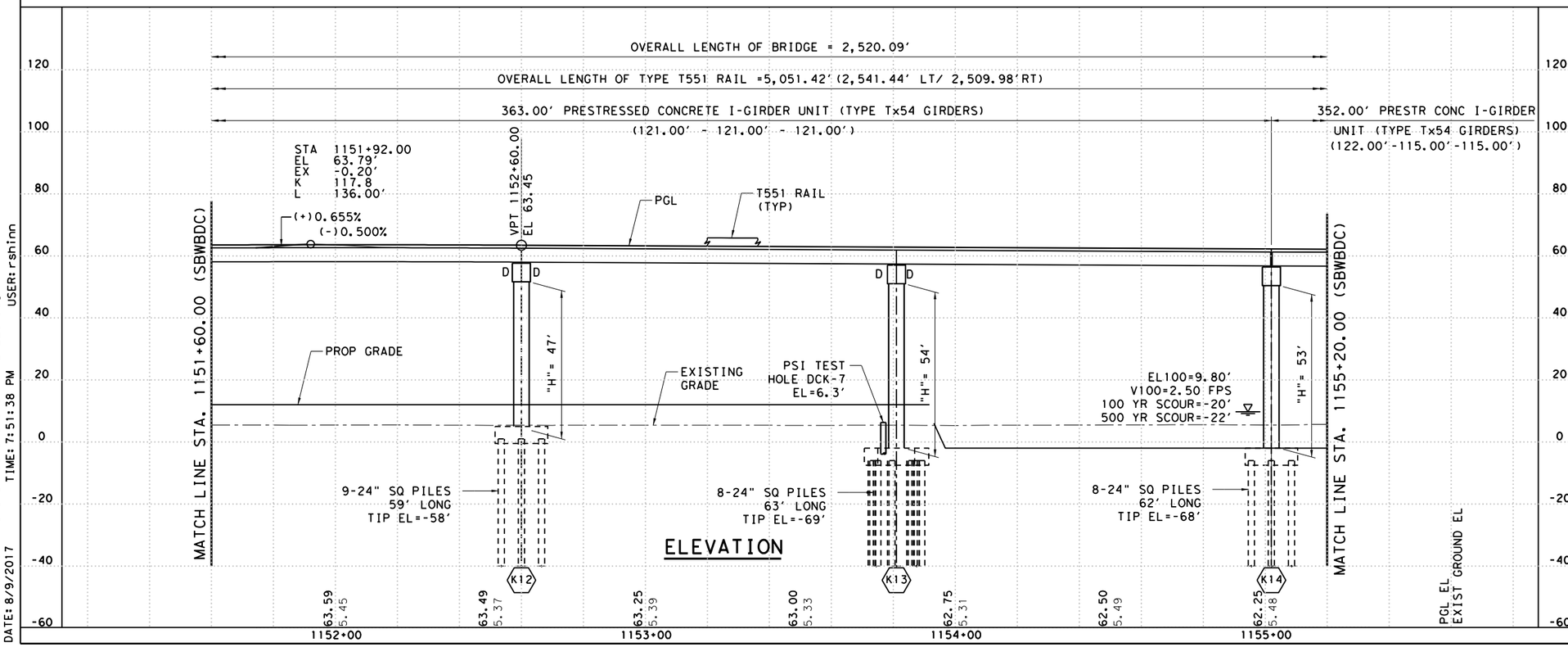
P.I. STATION		1160+31.57
DELTA	=	70°02'16.58" (RT)
DEGREE	=	5°19'47.42"
TANGENT	=	753.25'
LENGTH	=	1,314.07'
RADIUS	=	1,075.00'
P.C. STATION		1152+78.32
P.T. STATION		1165+92.39

DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-K
(2023) = 10,160
(2035) = 12,160

PLAN

ALL BENTS RADIAL TO ALIGNMENT UNLESS NOTED OTHERWISE

LEGEND
PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW
PSI BORE HOLE
HVJ BORE HOLE



ELEVATION

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CESAR FERNANDES 98112 08/04/2017
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HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC
FIGG TBPE, FIRM # F-4883

Texas Department of Transportation ® 2017

US 181 HARBOR BRIDGE
BRIDGE LAYOUT

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

SCALE: 1"=40'-0" SHEET 4 OF 7

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS MJR	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK RLS	TEXAS	CRP	NUECES	RB14 004
CHECK CF	CONTROL 0101	SECTION 06	JOB 095	

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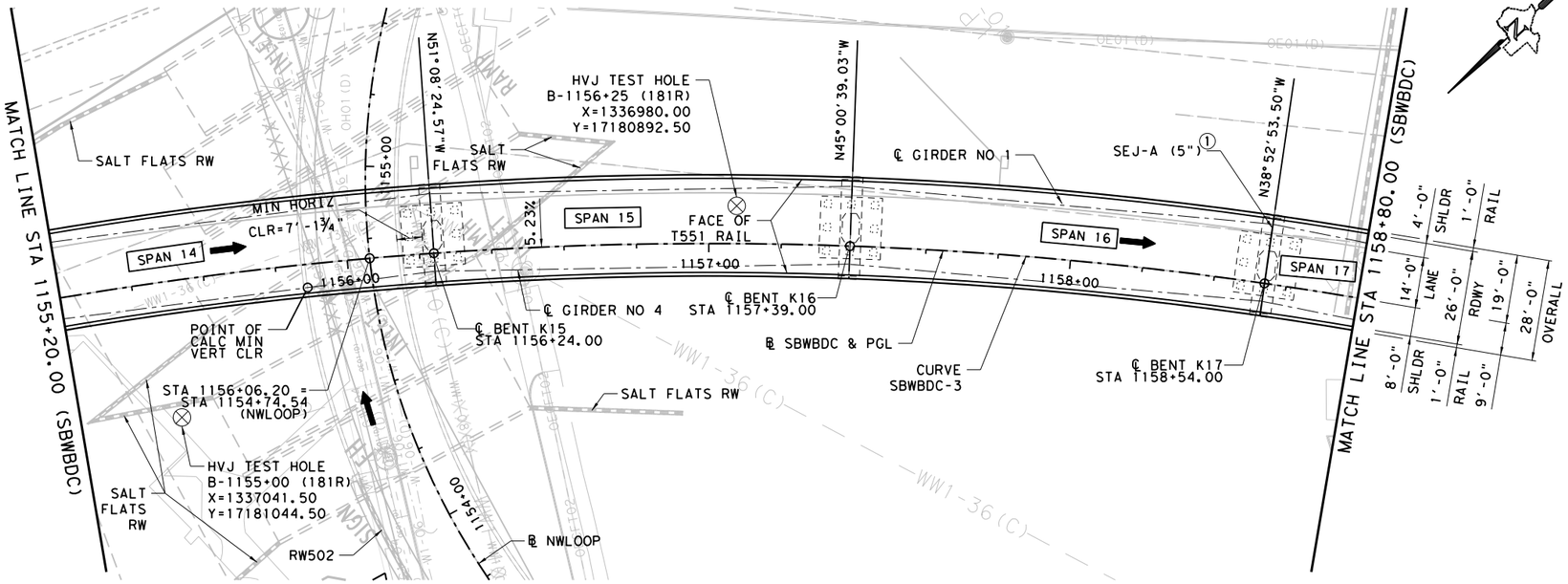

PLAN

CURVE SBWBDC-3

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DELTA	=	70°02'16.58" (RT)
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DESIGN DATA

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ADT: BRIDGE DC-K
(2023) = 10,160
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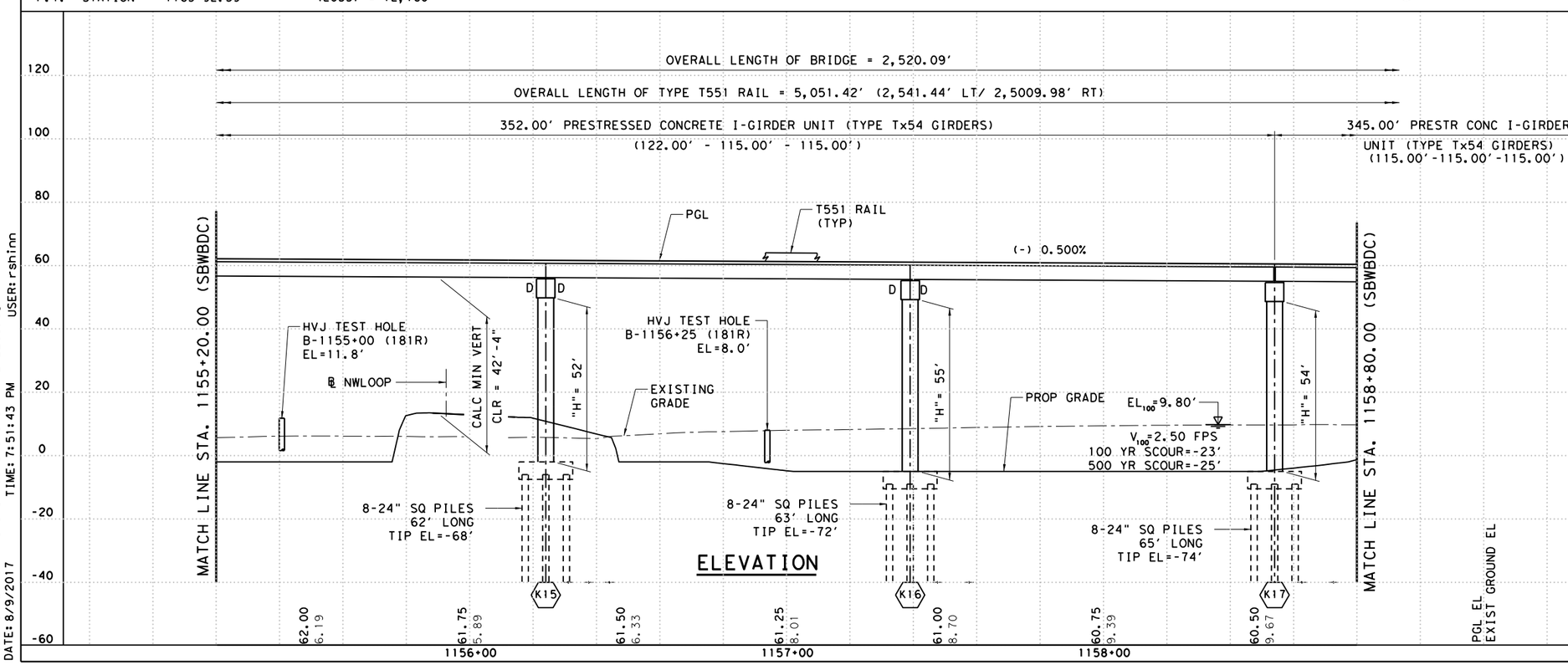
PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017



ELEVATION

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HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC
FIGG TBPE, FIRM # F-4883

Texas Department of Transportation ® 2017

US 181 HARBOR BRIDGE

BRIDGE LAYOUT

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

SCALE: 1"=40'-0" SHEET 5 OF 7

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS MJR	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK RLS	TEXAS	CRP	NUECES	RB14 005
CHECK	CONTROL	SECTION	JOB	
CF	0101	06	095	

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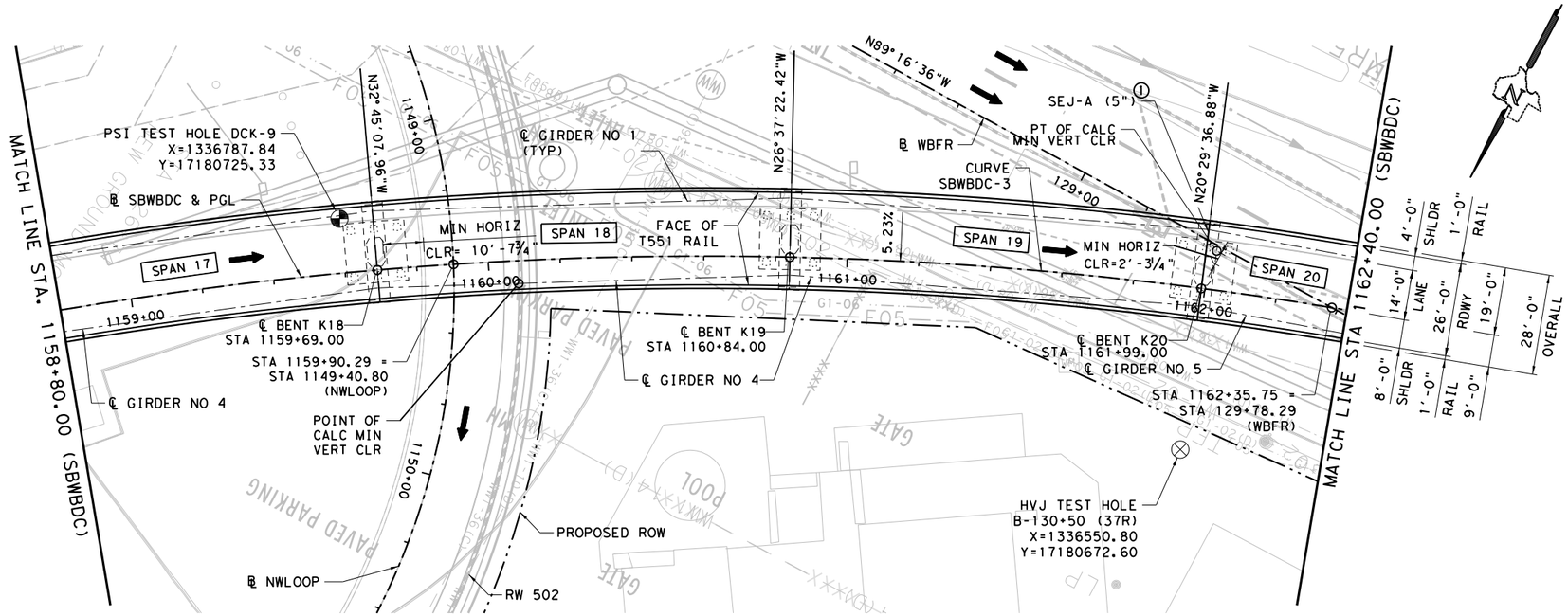

CURVE SBWBDC-3

P.I.	STATION		1160+31.57
DELTA		=	70°02'16.58" (RT)
DEGREE		=	5°19'47.42"
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LEGEND

- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
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- HVJ BORE HOLE

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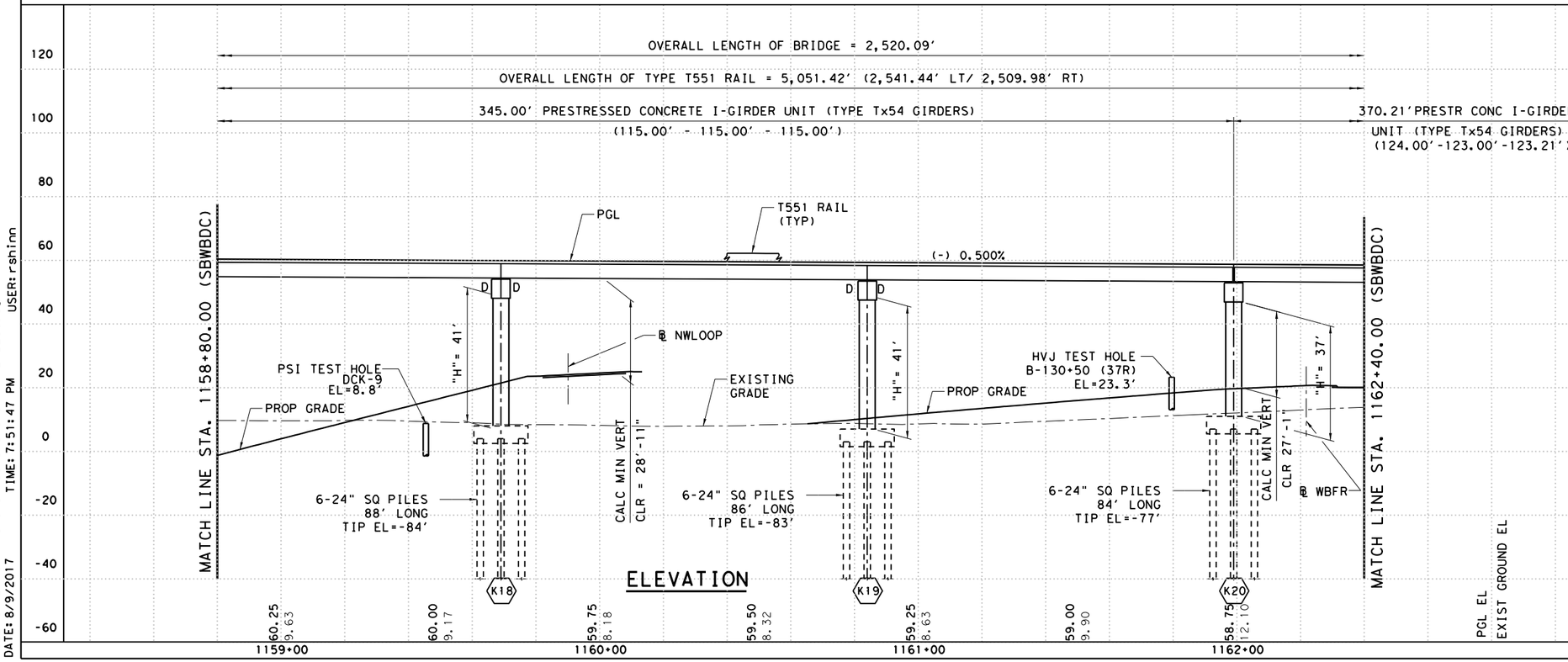
① D.S. BROWN SEAL TYPE A2R-XTRA, SHOWN ON SEJ-A STANDARD SHEET, MUST BE USED AT THIS LOCATION.

PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017



ELEVATION

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CESAR FERNANDES 98112 08/04/2017
TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC

FIGG TBPE, FIRM # F-4883

Texas Department of Transportation ® 2017

US 181 HARBOR BRIDGE

BRIDGE LAYOUT

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

SCALE: 1"=40'-0" SHEET 6 OF 7

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
MJR	TEXAS	CRP	NUECES	RB14 006
CHECK	CONTROL	SECTION	JOB	
RLS	0101	06	095	
CHECK				
CF				

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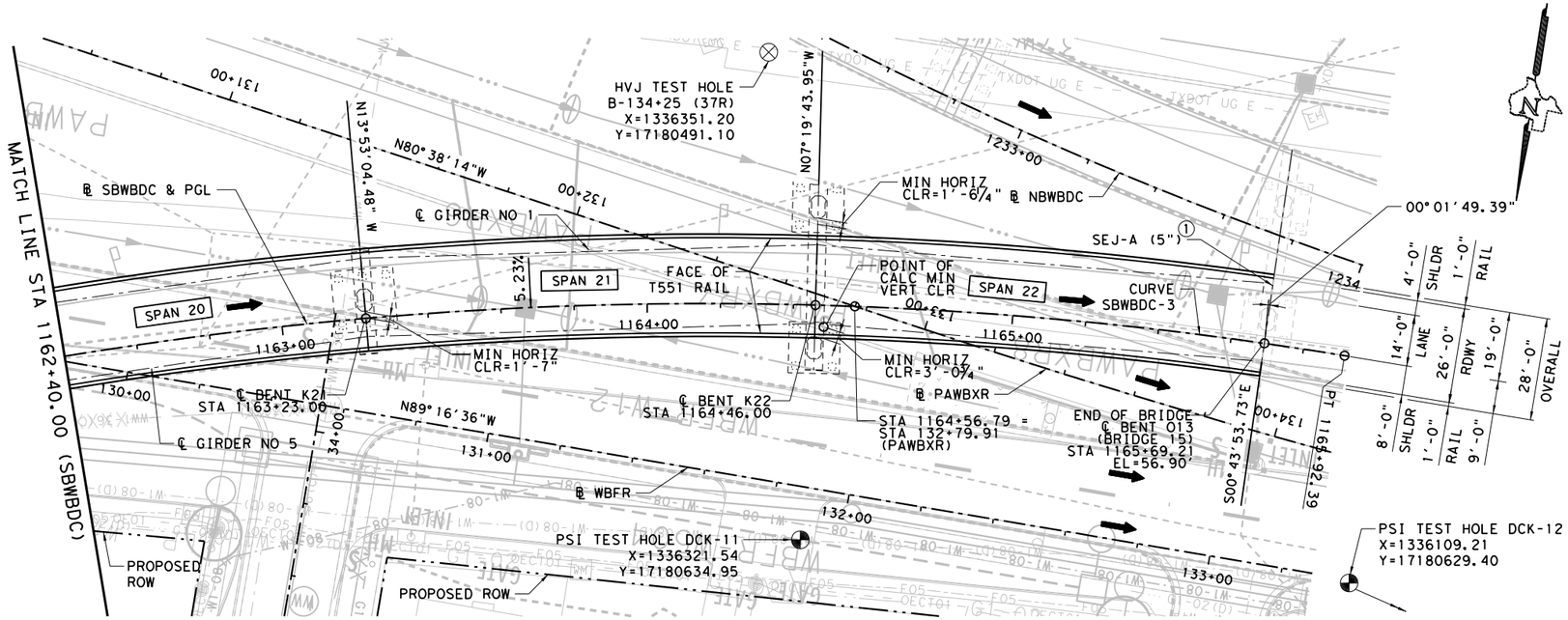

NOTES:

1. SEE "GENERAL NOTES" SHEETS FOR GENERAL NOTES.
2. ROADWAY HORIZONTAL AND VERTICAL GEOMETRY, WIDTH, SUPERELEVATION, TRAFFIC DIRECTION, EXISTING GROUND LINE, PROPOSED GROUND LINE, RIGHT OF WAY AND DRAINAGE DATA PROVIDED BY STANTEC. TOPO DATA PROVIDED BY CIVIL CORP. UTILITY DATA PROVIDED BY KCI.
3. ALL DIMENSIONS ARE EITHER HORIZONTAL OR VERTICAL AND MUST BE CORRECTED FOR GRADE, CROWN AND/OR SUPERELEVATION.
4. ALL SUPERELEVATION TRANSITIONS ARE LINEAR.
5. FOR CONCRETE GIRDER SPANS, "D" DENOTES BENTS WITH DOWEL BARS AND SLOTTED HOLES AT ENDS OF EXTERIOR GIRDER ONLY.
6. 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.
7. CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING STRUCTURES AND UTILITIES PRIOR TO CONSTRUCTION.
8. SEE "TYPICAL SECTION" SHEET FOR TYPICAL SECTIONS.
9. SEE "BORING LOG DATA" SHEETS FOR BORING LOG INFORMATION.
10. SEE "FOUNDATION LAYOUT" SHEETS FOR DRAINAGE AND UTILITY INFORMATION.
11. SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.
12. SOIL EXPLORATION DATA PROVIDED BY PSI.
13. SEE HVJ GEOTECHNICAL DATA REPORT DATED 9/29/2014 FOR HVJ BORING DATA .
14. BRIDGE NOT DESIGNED FOR OVERLAY LOAD.

① D.S. BROWN SEAL TYPE A2R-XTRA, SHOWN ON SEJ-A STANDARD SHEET, MUST BE USED AT THIS LOCATION.

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CURVE SBWBDC-3

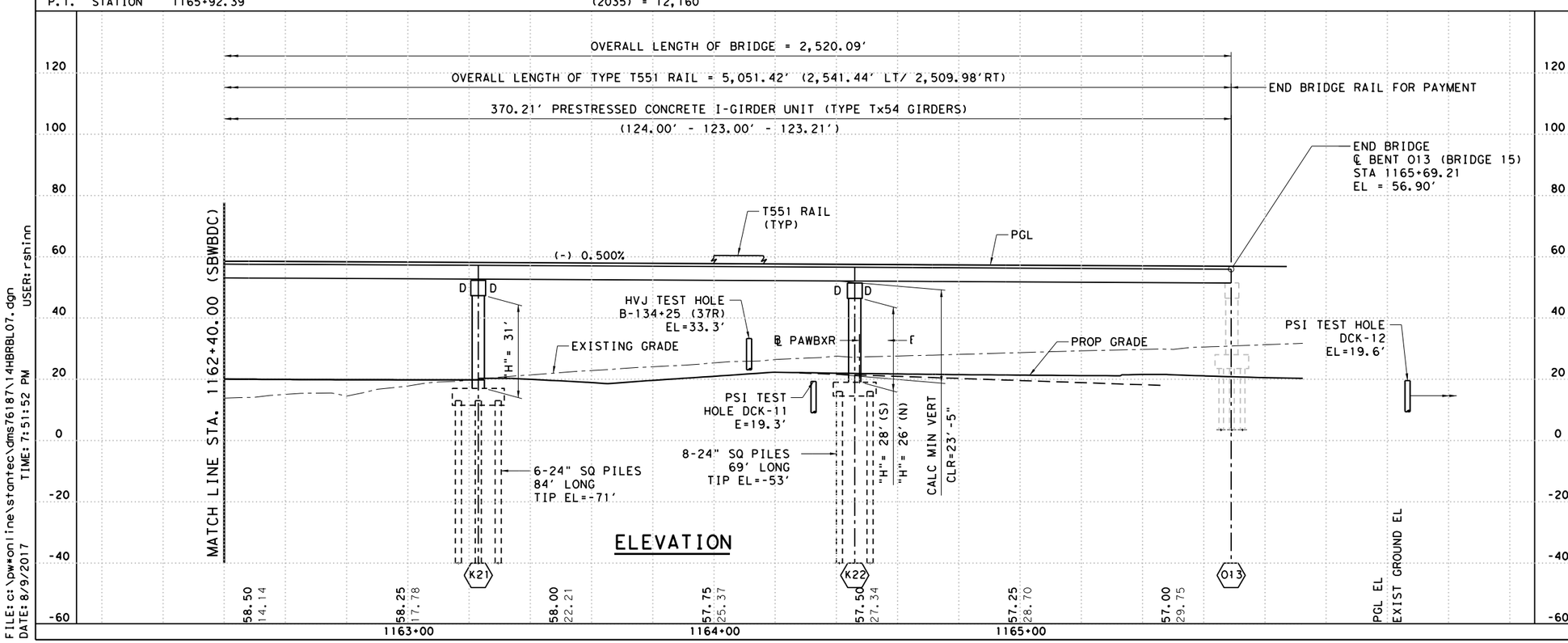
P.I. STATION		1160+31.57
DELTA	=	70°02'16.58" (RT)
DEGREE	=	5°19'47.42"
TANGENT	=	753.25'
LENGTH	=	1,314.07'
RADIUS	=	1,075.00'
P.C. STATION		1152+78.32
P.T. STATION		1165+92.39

DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-K
(2023) = 10,160
(2035) = 12,160

PLAN

ALL BENTS RADIAL TO ALIGNMENT UNLESS NOTED OTHERWISE

LEGEND
PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW
PSI BORE HOLE
HVJ BORE HOLE



ELEVATION

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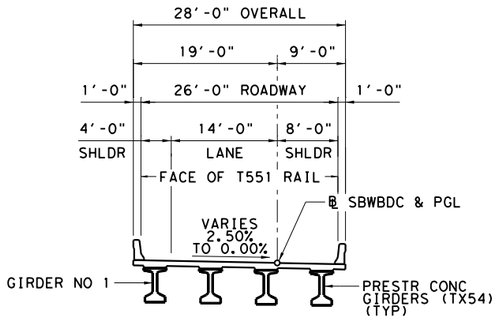
FLATIRON/DRAGADOS LLC
FIGG TBPE, FIRM # F-4883
Texas Department of Transportation ® 2017

US 181 HARBOR BRIDGE
BRIDGE LAYOUT

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

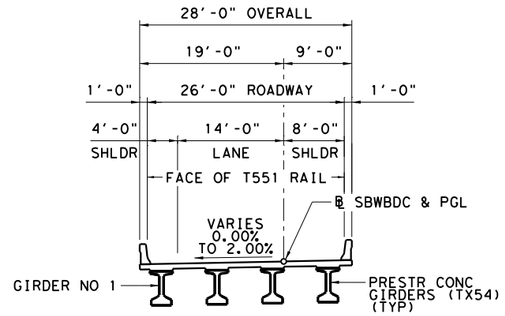
SCALE: 1"=40'-0" SHEET 7 OF 7

DESIGN	FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS MJR	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK RLS	TEXAS	CRP	NUECES	RB14 007
CHECK CF	CONTROL 0101	SECTION 06	JOB 095	



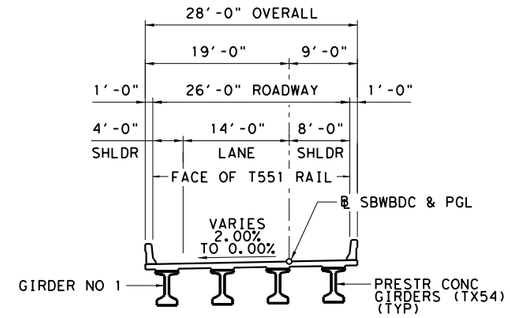
TRANSVERSE SECTION

SPAN 1
STA 1140+49.12
THRU STA 1141+16.85



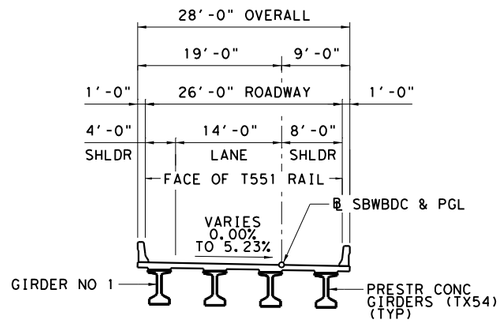
TRANSVERSE SECTION

SPAN 1
STA 1141+16.85
THRU STA 1141+71.00



TRANSVERSE SECTION

SPANS 2 THRU 4
STA 1141+71.00
THRU STA 1144+73.50



TRANSVERSE SECTION

SPANS 4 THRU 22
STA 1144+73.50 THRU 1165+69.21
(4 GIRDERS SHOWN, 5 GIRDERS IN
SPANS 20 THRU 22)

NOTES:

1. SEE "GENERAL NOTES" SHEETS FOR GENERAL NOTES.
2. SEE T551 STANDARD FOR RAIL DETAILS.

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC

FIGG
TBPE, FIRM # F-4883

Texas Department of Transportation ® 2017

US 181 HARBOR BRIDGE

TYPICAL SECTIONS

DIRECT CONNECTOR
US 181 SB TO IH 37 NB
BRIDGE 14, CONN "K"

SCALE: 1" = 20'-0" SHEET 1 OF 1

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
HEW	X	(See Title Sheet)		US 181
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
SNO	TEXAS	CRP	NUECES	RB14 008
CHECK	CONTROL	SECTION	JOB	
RLS	0101	06	095	
CHECK				
CF				

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DATE: 8/9/2017 TIME: 7:51:56 PM USER: rshinn