



<b>Work Package</b>	<b>Package 4 – US181/SH286 (Signing, Striping)</b>
<b>Revision</b>	<b>A0</b>
<b>Submittal Stage</b>	<b>Advanced Status</b>
<b>Date</b>	<b>5/4/2017</b>

Plotted: 4/28/2017 6:57:19 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\stantec-sc-pw\ent\ey.com\stantec-sc-pw\Documents\01 Projects\HBR\Bui\11.01-Sheets\Segment 4, 7, 12 & 13(Bridge)\HBR\_STR\_Index\_4&HBR.dgn

INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION	REVISION
STR-FM; 003	LARGE SIGN FORMATS	A0
STR-OSSE; 014 TO 020	OVERHEAD SIGN ELEVATIONS	A0
STR-LOSS; 004,005,007,008	SUMMARY OF LARGE SIGNS: SH 286 MAINLINE	A0
STR-SOSS; 026, 027	SUMMARY OF SMALL SIGNS: CROSS STREETS	A0
STR-SOSS; 031, 032	SUMMARY OF SMALL SIGNS: SH 286 MAINLINE	A0
STR-US181; 008 TO 019	PAVEMENT MARKING AND SIGNING, SH 286 MAINLINE STA 1076+00 TO STA 1308+34	A0
STR-XRLO; 001	PAVEMENT MARKING AND SIGNING, LEOPARD STREET STA 16+00 TO STA 37+00	A0
STR-XRME; 001	PAVEMENT MARKING AND SIGNING, MESTINA STREET STA 1172+00 TO STA 1179+00	A0
STR-XRLK; 001 TO 002	PAVEMENT MARKING AND SIGNING, LAKE STREET STA 10+00 TO STA 33+00	A0

NO.		BY	DATE

PRELIMINARY

FOR REVIEW ONLY

THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:

Engineer: Steven Ogburn

P.E. No.: 115334


Date: 5/1/17

ADVANCED STATUS

NOT FOR CONSTRUCTION


US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING  
US181/SH286 - MAINLINE  
CROSS STREETS  
INDEX OF SHEETS




FLATIRON/DRAGADOS

FLATIRON/DRAGADOS LLC



2000 Bierling Drive, Suite 102  
Houston, Texas 77057  
281-772-2880

DP-004






















Texas Department of Transportation

© 2016

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597 (1)		STR-IND
STATE	STATE DIST. NO.	COUNTY	4HBR
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

Plotted: 5/2/2017 1:35:41 PM  
Pen Table: HBR\_BRG\_5A.tbl  
Design File: pw:\stntec-sc-pw\entley.com\stntec-sc-pw\Documents\01 Projects\HBR\Bui Id Work\Design\11-Traffic\AZTEC\11.01-Sheets\Segment 1\HBR\_STR\_LEGEND




SIGNING LEGEND

	EXIST SMALL SIGN TO BE RELOCATED		PREFAB PAV MRK W/WNTY TY B(W) (6IN) (BRK) CNTST WITH 2IN(B) ON EACH SIDE (10IN TOTAL WIDTH PER STD SHEET CPM(1)-14 (CONTRAST AND SHADOW PAVEMENT MARKINGS
	EXIST SMALL SIGN TO BE REMOVED		REFL PAV MRKR TY II-C-R
	EXIST LARGE SIGN TO BE REMOVED		REFL PAV MRKR TY I-C
	PROPOSED SMALL SIGN		REFL PAV MRKR TY II-Y-Y
	PROPOSED LARGE SIGN OR OVHD SIGN		INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2
	EXISTING SIGN TO REMAIN		INSTL DEL ASSM (D-SY)SZ 1(FLX)GF2
	PROPOSED SMALL SIGN ASSEMBLY		INSTL DEL ASSM (D-SW)SZ (BR)CTB AT 80' SPA
	EXISTING SMALL SIGN ASSEMBLY TO REMAIN		INSTL DEL ASSM (D-SY)SZ (BR)CTB AT 80' SPA
	PROPOSED LARGE SIGN ASSEMBLY, GROUND MOUNT		
	PROPOSED OVERHEAD SIGN BRIDGE STRUCTURE		
	PROPOSED CANTILEVER SIGN STRUCTURE		

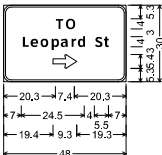
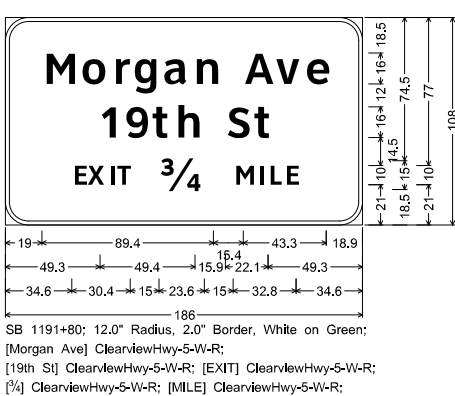
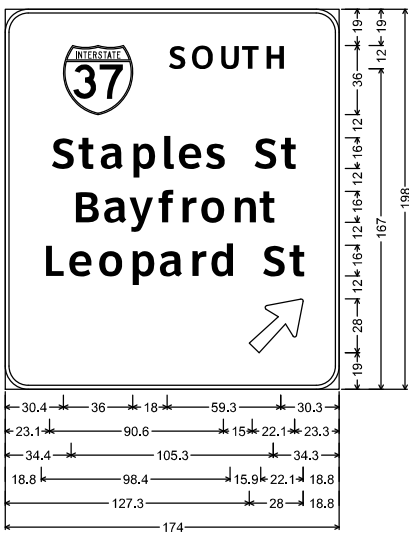
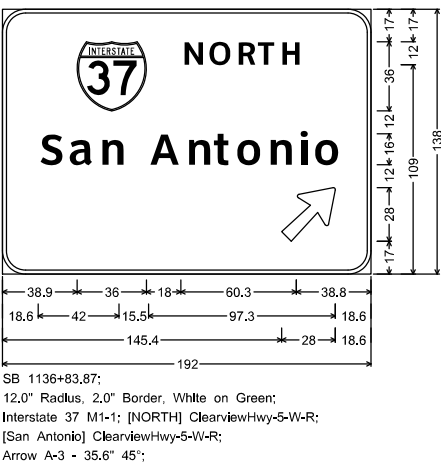
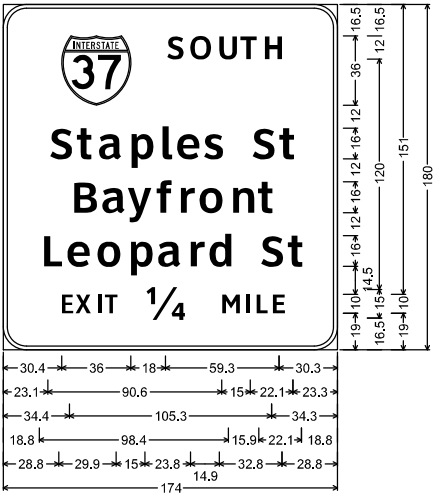
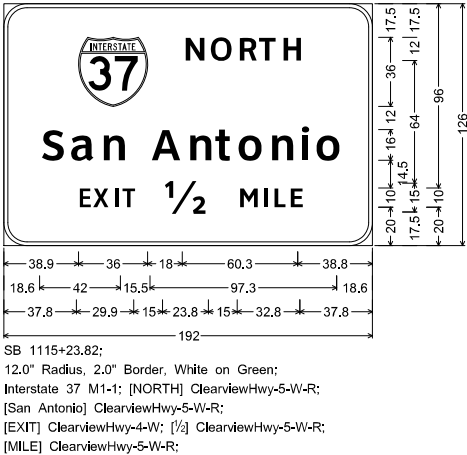
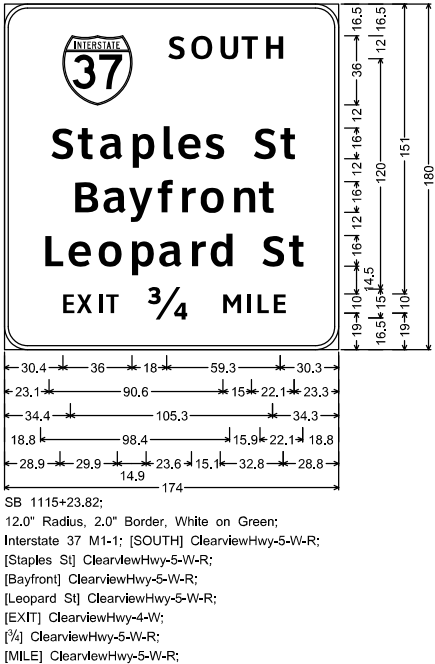
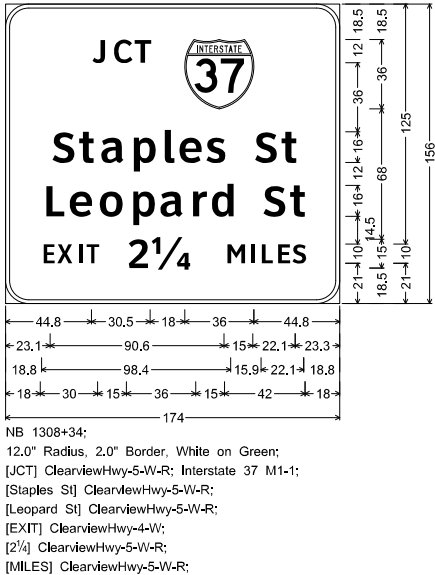
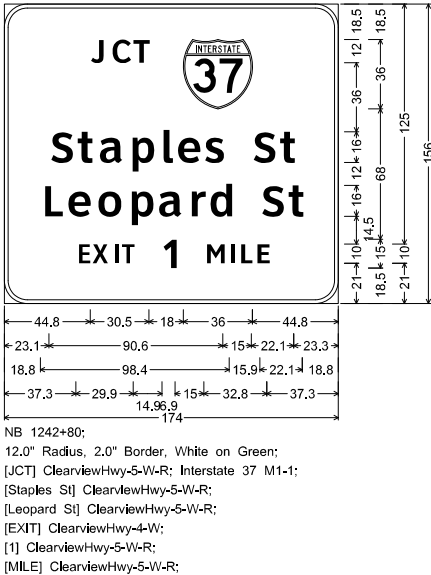
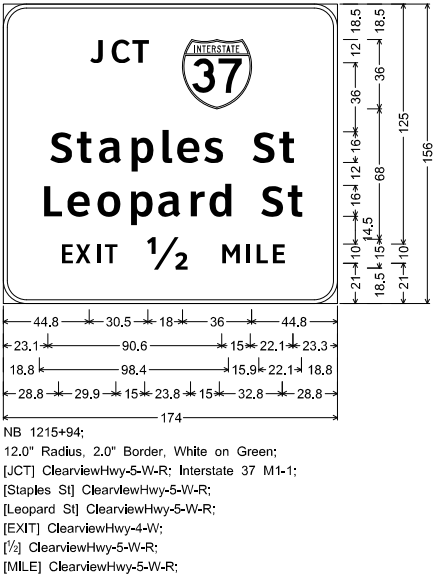
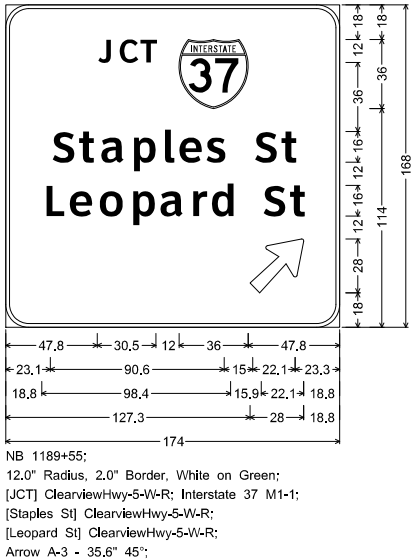
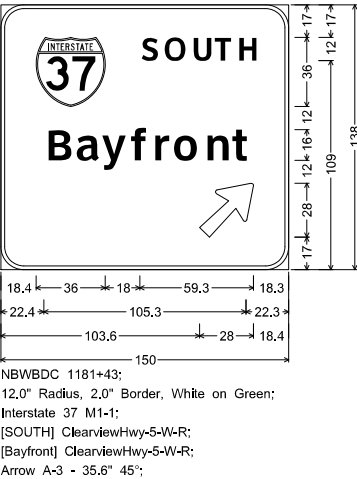
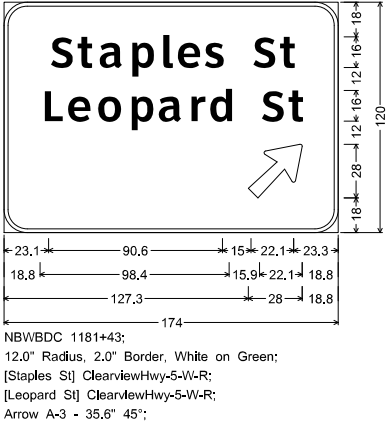
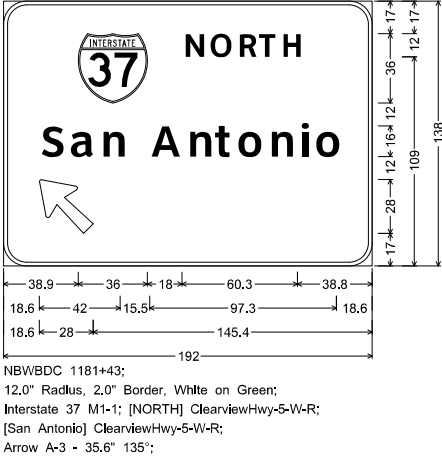
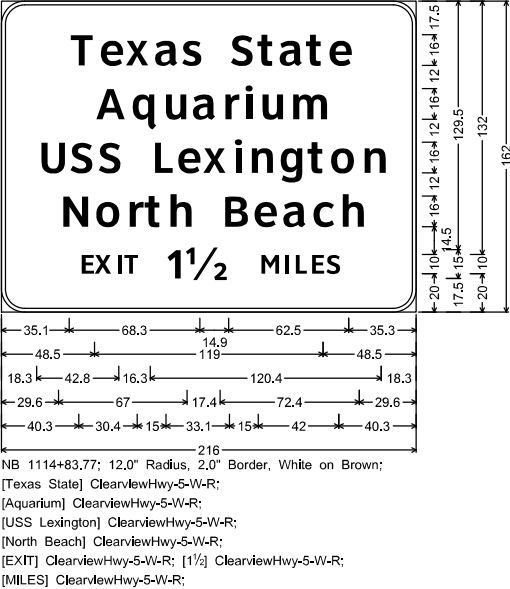
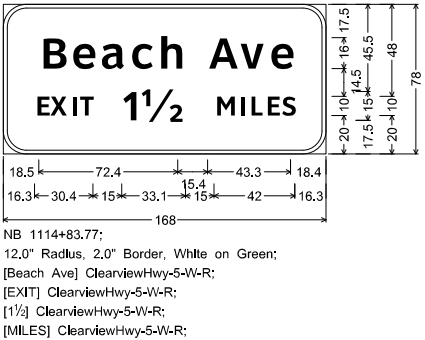
	REFL PAV MRK W/RET REQ TY I (W) 4" (BRK)		ELIM EXT PAV MRK & MRKR (4IN)
	REFL PAV MRK W/RET REQ TY I (Y) 4" (BRK)		ELIM EXT PAV MRK MRKR (18" AND 36")
	REFL PAV MRK W/RET REQ TY I (W) 4" (SLD)		ELIM EXT PAV MRK & MRKR (WORD)
	REFL PAV MRK W/RET REQ TY I (Y) 4" (SLD)		"ONLY" "MERGE" PREFAB PAV MRK TY C (W) (WORD)
	REFL PAV MRK TY I (Y) 4" (SLD) (DBL)		 PREFAB PAV MRK TY C (W) (ARROW)
	REFL PAV MRK TY I (BLACK) 6" (SHADOW) (100 MIL)		EXISTING PAV MRK TO REMAIN
	REFL PAV MRK TY I (W) 8" (SLD) (100 MIL)		RAILROAD CROSSING
	REFL PAV MRK TY I (W) 12" (SLD) (100 MIL)		4" DOTTED WHITE LINE (3' LINE, 9' GAP)
	REFL PAV MRK TY I (W) 24" (SLD) (100 MIL)		4" DOTTED WHITE LINE (2' LINE, 6' GAP)
	REFL PAV MRK TY I (Y) 24" (SLD) (100 MIL)		YIELD LINES

SIGNING AND PAVEMENT MARKING NOTES

1. ALL SIGN LEGENDS AND OFFSETS PER THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST STANDARDS AND CORPUS CHRISTI DISTRICT POLICIES.
2. ACTUAL CLEARANCE TO BE SHOWN WILL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION OF THE SIGN.
3. ALL EXISTING TEXAS LOGO SIGNS TO BE RELOCATED BY LONE STAR LOGOS AND SIGNS. CONTRACTOR SHALL CALL MR. RICK RENDON AT (512) 462-1310, FAX (512) 462-1315, TWO WEEKS PRIOR TO COORDINATE THIS WORK.
4. FIELD VERIFY ALL PROPOSED SIGN LOCATIONS BEFORE INSTALLING.
5. LOCATION OF PROPOSED SIGNS IS APPROXIMATE AND SHALL BE ADJUSTED AS SPECIFIED BY TXDOT IN THE FIELD.
6. ALL PAVEMENT MARKINGS ARE ACCORDING TO THE TEXAS PAVEMENT MARKING MANUAL, LATEST STANDARDS AND CORPUS CHRISTI DISTRICT POLICIES.

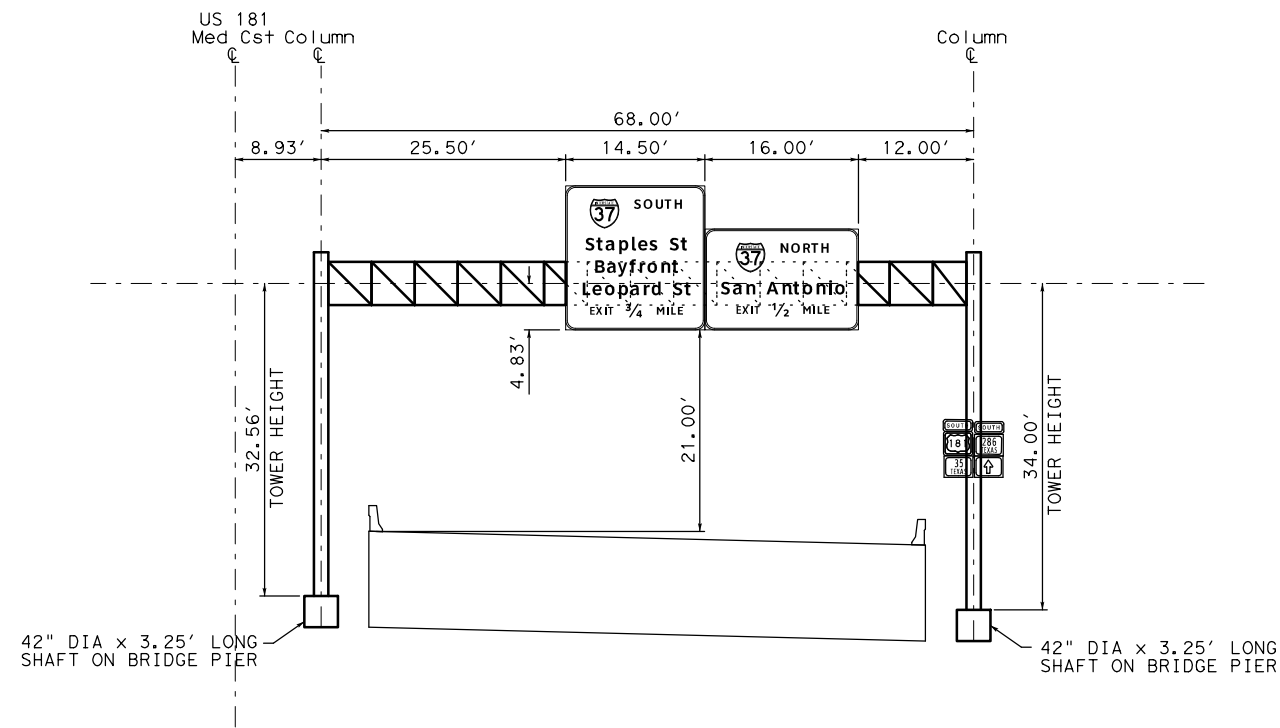
NO.		BY	DATE
<b>PRELIMINARY</b>			
FOR REVIEW ONLY			
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:			
Engineer: <u>Steven Ogburn</u>			
P.E. No.: <u>115334</u>			
Date: _____			
<b>PRE-FINAL SUBMITTAL</b>			
<b>NOT FOR CONSTRUCTION</b>			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING GENERAL NOTES AND LEGEND			
 <b>FLATIRON/DRAGADOS LLC</b>			
 2000 Biering Drive, Suite 102 Houston, Texas 77057 281-772-2880			
 Texas Department of Transportation © 2016			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597 (1)		STR-GN <b>001</b>
STATE	STATE DIST. NO.	COUNTY	
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	
0101	06	095	HIGHWAY NO. US181

Plotted: 4/25/2017 3:38:22 PM  
Pen Table: HBR\_BRG\_SA.tbl  
Design File: \\santec-sc-pw\ent\ey.com\santec-sc-pw\Documents\01 Projects\HBR\Bui\ld\Work\Design\11-Traffic\AZTEC\11.01-Sheets\Segment 4, 7, 12 & 13 (Bridge)\HBR\_STR\_FM\_03



NO.	BY	DATE
<b>PRELIMINARY</b>		
FOR REVIEW ONLY THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Ogburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>		
<b>ADVANCED STATUS</b>		
<b>NOT FOR CONSTRUCTION</b>		
US 181 HARBOR BRIDGE		
PAVEMENT MARKING & SIGNING		
US 181/SH 286 LARGE SIGN FORMATS		
<b>AZTEC</b> 2000 Berlin Drive, Suite 102 Houston, Texas 77057 713-772-2880		
Texas Department of Transportation © 2016		
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597 (1)	STR-FM
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

Plotted: 4/28/2017 6:58:52 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\santec-sc-pw\Bentley\Projects\HBR\Bui\11-01-Sheets\Segment 4, 7, 12 & 13(Bridge)\HBR\_STR\_OSSE\_14



SB US 181  
STA. 1115+23.82

No cross section available

DESIGN DATA	
SPAN LENGTH	68.00
DESIGN HEIGHT	34.00
TOWER HEIGHT, LEFT	32.56
TOWER HEIGHT, RIGHT	34.00
DESIGN SIGN AREA	510.00
ACTUAL SIGN AREA	385.50
PENETROMETER VALUE	"N"=XX
DESIGN LOADS	TORSION X
	MOMENT X

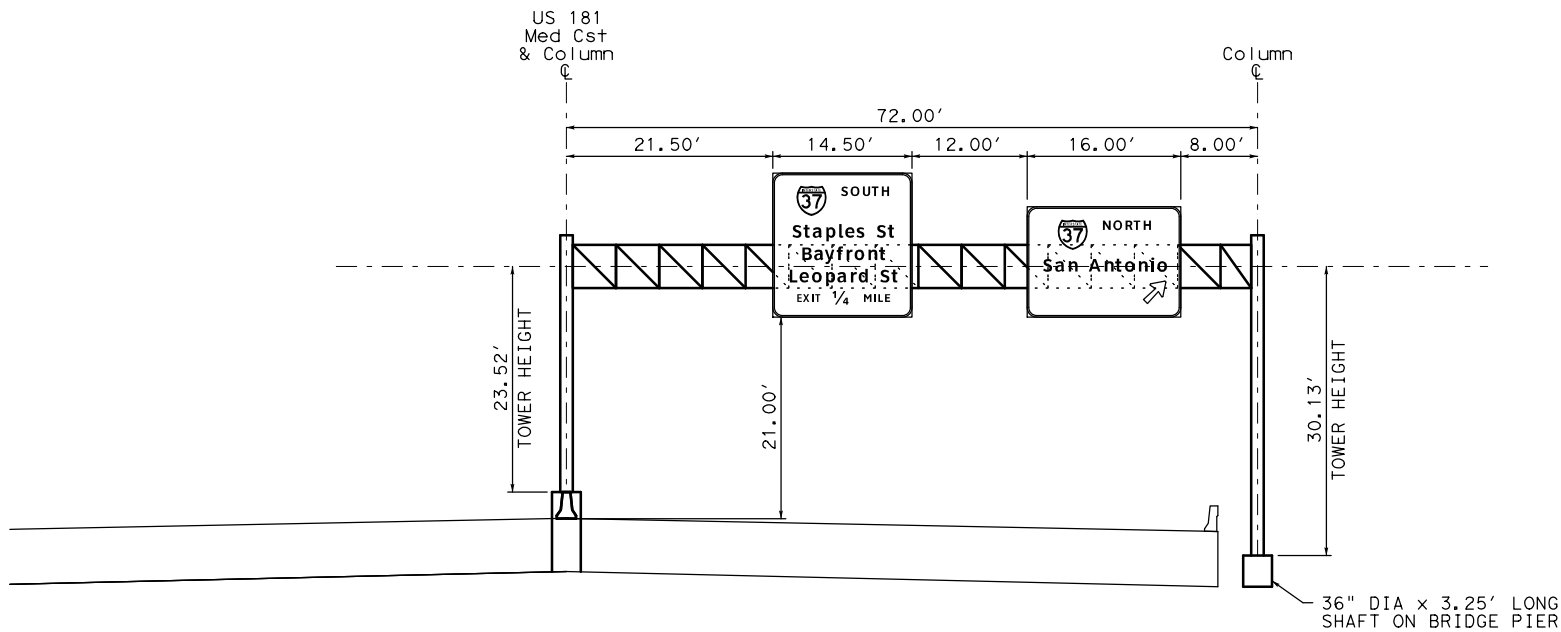
STRUCTURE DATA	
STRUCTURE CODE	HOSB-Z1
TRUSS SIZE	4.5' x 4.5'
TOWER SIZE	W 18 x 46

SUMMARY OF DRILLED SHAFT  
XX LF OF 42 IN DIA DRILLED SHAFT - LEFT TOWER  
XX LF OF 42 IN DIA DRILLED SHAFT - RIGHT TOWER

	LEFT	RIGHT
BOTTOM BASE PLATE ELEV	X	X
TOP DRILLED SHAFT ELEV	X	X
GROUND ELEV	X	X
BOTTOM DRILLED SHAFT ELEV	X	X

NO.		BY	DATE
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Ogburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>			
<b>ADVANCED STATUS</b>			
<b>NOT FOR CONSTRUCTION</b>			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING US 181/ SH286 MAINLINE OVERHEAD SIGN STRUCTURE ELEVATIONS			
 <b>FLATIRON/DRAGADOS LLC</b>			
 2000 Berling Drive, Suite 102 Houston, Texas 77057 281-772-2880			
DP-004			
Texas Department of Transportation			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-OSSE
STATE	STATE DIST. NO.	COUNTY	<b>014</b>
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

Plotted: 4/28/2017 7:00:18 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\stantec-sc-pw\ben\ley.com\stantec-sc-pw\Documents\01 Projects\HBR\Bui\ld\Work\Design\11-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_OSSE\_15



DESIGN DATA	
SPAN LENGTH	72.00
DESIGN HEIGHT	27.00
TOWER HEIGHT, LEFT	23.52
TOWER HEIGHT, RIGHT	30.13
DESIGN SIGN AREA	540
ACTUAL SIGN AREA	468.25
PENETROMETER VALUE	"N" = XX
DESIGN LOADS	TORSION 19.33
	MOMENT 539

STRUCTURE DATA	
STRUCTURE CODE	OSB-Z1
TRUSS SIZE	4.5' x 4.5'
TOWER SIZE	W 16 x 36

SUMMARY OF DRILLED SHAFT

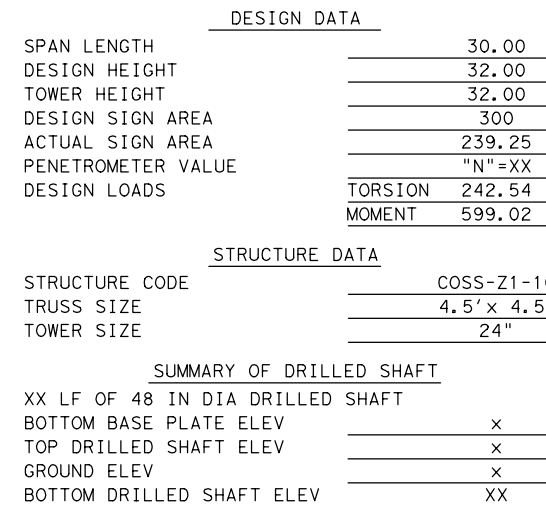
XX LF OF 36 IN DIA DRILLED SHAFT - LEFT TOWER

XX LF OF 36 IN DIA DRILLED SHAFT - RIGHT TOWER

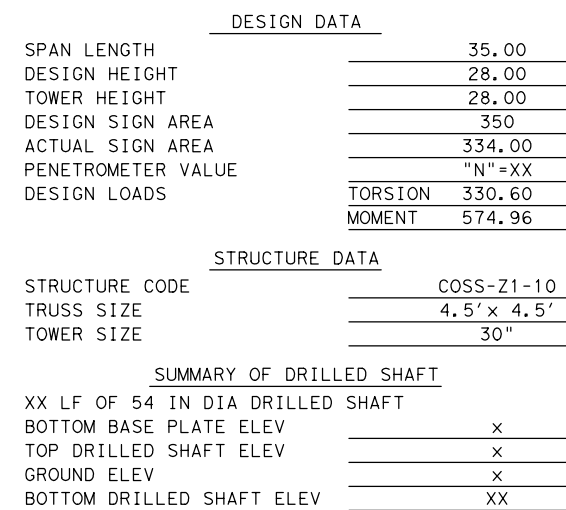
	LEFT	RIGHT
BOTTOM BASE PLATE ELEV	X	X
TOP DRILLED SHAFT ELEV	X	X
GROUND ELEV	X	X
BOTTOM DRILLED SHAFT ELEV	X	X

No cross section available





NO.		BY	DATE
<b>PRELIMINARY</b>			
<b>FOR REVIEW ONLY</b>			
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:			
Engineer: <u>Steven Ogburn</u>			
P.E. No.: <u>115334</u>			
Date: <u>5/1/17</u>			
<b>ADVANCED STATUS</b>			
<b>NOT FOR CONSTRUCTION</b>			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING			
US 181/ SH286 MAINLINE OVERHEAD SIGN STRUCTURE ELEVATIONS			
 <b>FLATIRON/DRAGADOS LLC</b>			
 2000 Biering Drive, Suite 102 Houston, Texas 77057 281-772-2880			
DP-004			
Texas Department of Transportation			
© 2016			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597 (1)		STR-OSSE
STATE	STATE DIST. NO.	COUNTY	
TEXAS	CRP	NUECES	<b>015</b>
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181



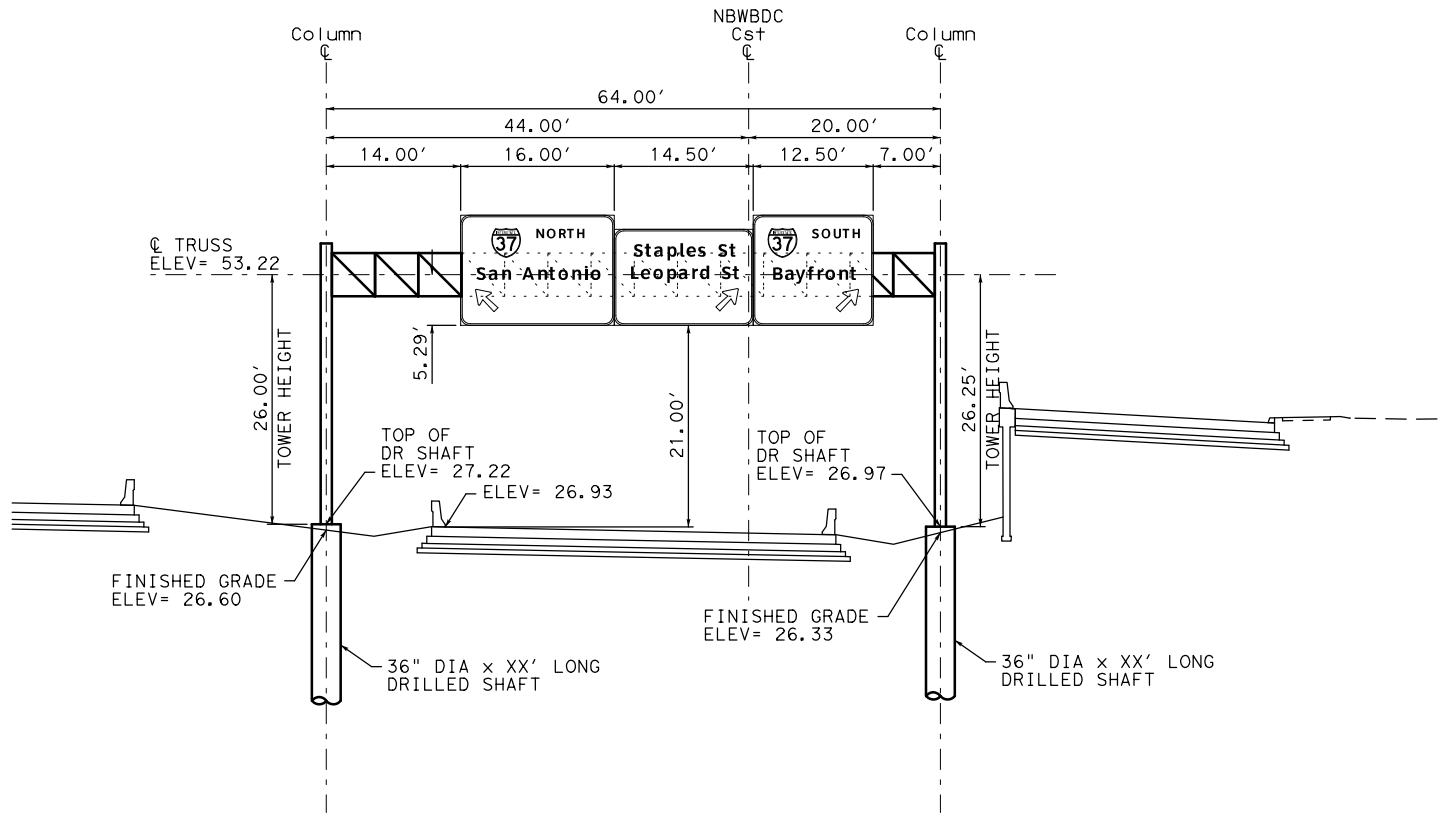
SB US 181  
STA. 1145+83.97



NB US 181  
STA. 1114+83.77

NO.					BY		DATE		
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <u>Engineer: <b>Steven Osburn</b></u> <u>P.E. No.: <b>115334</b></u> <u>Date: <b>5/1/17</b></u>									
<b>ADVANCED STATUS</b> <b>NOT FOR</b> <b>CONSTRUCTION</b> <b>US 181 HARBOR BRIDGE</b>									
<b>PAVEMENT MARKING &amp; SIGNING</b> <b>US 181 / SH286 MAINLINE</b> <b>OVERHEAD SIGN</b> <b>STRUCTURE ELEVATIONS</b>									
 <b>FLATIRONIDRAGADOS LLC</b>									
  2000 Bering Drive, Suite 702 Houston, Texas 77057 281-772-2800									
DP-004									
 Texas Department of Transportation © 2016									
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.						SHEET NO.	
6		HP X597 (1)						STR-OS	
STATE		STATE DIST. NO.		COUNTY					
TEXAS		CRP		NUECES					
CONT.		SECT		JOB				HIGHWAY #	
0101		06		095				US181	

Plotted: 4/28/2017 7:06:49 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\stantec-sc-pw\ent\ey.com\stantec-sc-pw\Documents\01 Projects\HBR\Bui\11-01-Traffic\AZTEC\11.01-Sheets\Segment 4, 7, 12 & 13(Bridge)\HBR\_STR\_OSSE-17



NBWBDC  
STA. 1181+43

DESIGN DATA	
SPAN LENGTH	64'
DESIGN HEIGHT	27.00'
TOWER HEIGHT, LEFT	26.00'
TOWER HEIGHT, RIGHT	26.25'
DESIGN SIGN AREA	480
ACTUAL SIGN AREA	472.75
PENETROMETER VALUE	"N"=XX
DESIGN LOADS	TORSION 16.74
	MOMENT 465

STRUCTURE DATA	
STRUCTURE CODE	OSB-Z1
TRUSS SIZE	4.5' x 4.5'
TOWER SIZE	W 14 x 34

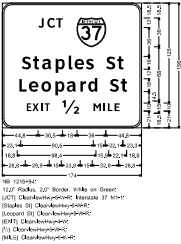
SUMMARY OF DRILLED SHAFT		
XX LF OF 36 IN DIA DRILLED SHAFT - LEFT TOWER		
XX LF OF 36 IN DIA DRILLED SHAFT - RIGHT TOWER		
	LEFT	RIGHT
BOTTOM BASE PLATE ELEV	27.39	27.14
TOP DRILLED SHAFT ELEV	27.22	26.97
GROUND ELEV	26.60	26.33
BOTTOM DRILLED SHAFT ELEV	X	X

NO.		BY	DATE
<b>PRELIMINARY</b>			
FOR REVIEW ONLY			
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:			
Engineer: <u>Steven Ogburn</u>			
P.E. No.: <u>115334</u>			
Date: <u>5/1/17</u>			
<b>ADVANCED STATUS</b>			
<b>NOT FOR CONSTRUCTION</b>			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING			
NB AND SB FRONTAGE ROADS			
OVERHEAD SIGN			
STRUCTURE ELEVATIONS			
<b>FLATIRON/DRAGADOS LLC</b>			
<b>AZTEC</b>			
2000 Biering Drive, Suite 102 Houston, Texas 77057 713-772-2880			
DP-004			
Texas Department of Transportation			
© 2016			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-OSSE
STATE	STATE DIST. NO.	COUNTY	
TEXAS	CRP	NUECES	<b>017</b>
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181



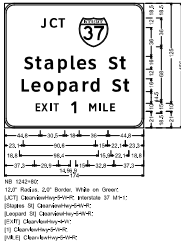


Plotted: 4/28/2017 7:14:22 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\santec-sc-pw\ent\ey.com\santec-sc-pw\Documents\01 Projects\HBR\Bui\1-Traffic\AZTEC\11.01-Sheets\Segment 4, 7, 12 & 13(Bridge)\HBR\_STR\_OSSE\_19



Need Survey

NB US 181/SH 286  
STA. 1215+94

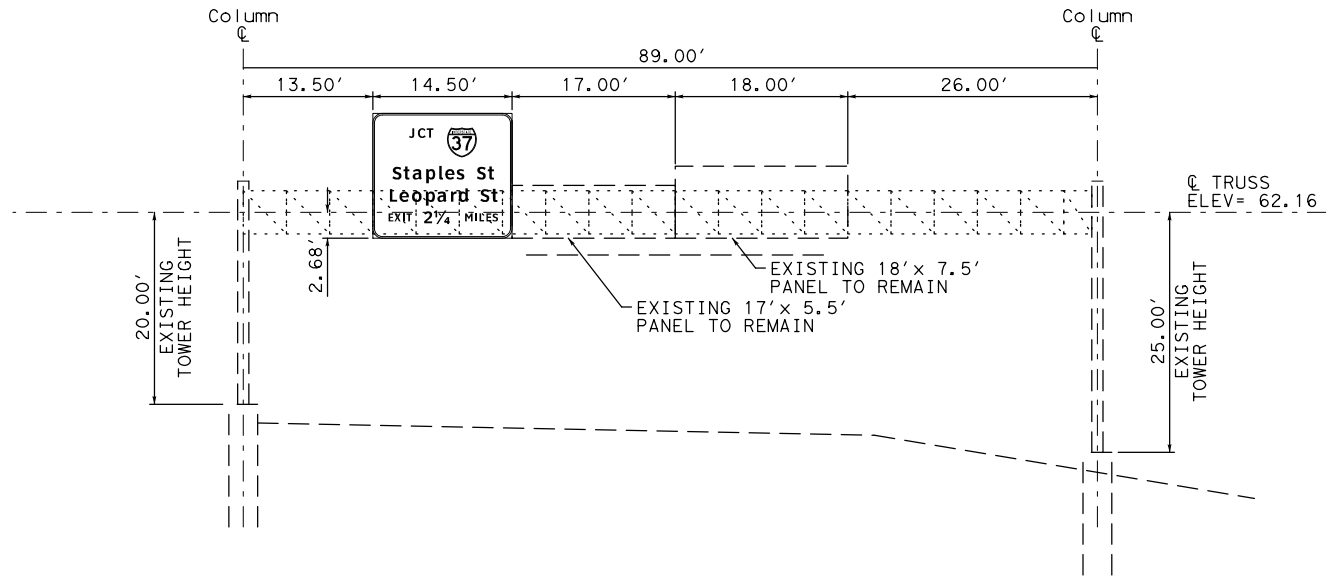


Need Survey

NB US 181/SH 286  
STA. 1242+80

NO.		BY	DATE
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Ogburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>			
<b>ADVANCED STATUS</b>			
<b>NOT FOR CONSTRUCTION</b> <b>US 181 HARBOR BRIDGE</b>			
<b>PAVEMENT MARKING &amp; SIGNING</b> <b>US 181/ SH286 MAINLINE OVERHEAD SIGN</b> <b>STRUCTURE ELEVATIONS</b>			
 <b>FLATIRON DRAGADOS LLC</b>			
 2000 Berling Drive, Suite 102 Houston, Texas 77057 281-772-2880			
DP-004			
Texas Department of Transportation			
© 2016			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597 (1)		STR-OSSE
STATE	STATE DIST. NO.	COUNTY	<b>019</b>
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

Plotted: 4/28/2017 7:15:56 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\santec-sc-pw\ent\ey.com\santec-sc-pw\Documents\01 Projects\HBR\Bui\ld\Work\Design\11-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_OSSE\_20



EXISTING SIGN BRIDGE (TO REMAIN)  
NB US 181/SH 286  
STA. 1308+34

DESIGN DATA	
SPAN LENGTH	89.00'
DESIGN HEIGHT	23.00'
TOWER HEIGHT, LEFT	20.00
TOWER HEIGHT, RIGHT	25.00
DESIGN SIGN AREA	667.50
ACTUAL SIGN AREA	417
PENETROMETER VALUE	N/A
DESIGN LOADS	
TORSION	23.21
MOMENT	559

STRUCTURE DATA	
STRUCTURE CODE	OSB-Z1
TRUSS SIZE	4.5' x 4.5'
TOWER SIZE	W 14 x 34

SUMMARY OF DRILLED SHAFT

LEFT TOWER - N/A  
RIGHT TOWER - N/A

	LEFT	RIGHT
BOTTOM BASE PLATE ELEV	X	X
TOP DRILLED SHAFT ELEV	42.16	37.16
GROUND ELEV	N/A	N/A
BOTTOM DRILLED SHAFT ELEV	N/A	N/A

NO.	BY	DATE
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Ogburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>		
<b>ADVANCED STATUS</b>		
<b>NOT FOR CONSTRUCTION</b>		
US 181 HARBOR BRIDGE		
PAVEMENT MARKING & SIGNING US 181/ SH286 MAINLINE OVERHEAD SIGN STRUCTURE ELEVATIONS		
 <b>FLATIRON/DRAGADOS LLC</b>		
 2000 Biering Drive, Suite 102 Houston, Texas 77057 281-772-2880		
DP-004		
Texas Department of Transportation		
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597(1)	STR-OSSE
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
HIGHWAY NO.		US181

SUMMARY OF LARGE OVERHEAD SIGNS

PLAN SHEET NO.	STATION	SIGN NO.	BACKGROUND COLOR	SIGN TEXT	SIGN DIMENSIONS	PLAQUES, & OTHER ATTACHMENTS		BACKGROUND SUBSTRATE (SQ FT)		TYPE OF MOUNT	"X" DIMENSION			GALVANIZED STRUCTURAL STEEL				DRILLED SHAFT				
						DIRECT APPLY	* ALUMINUM (TYPE A)	GROUND MOUNT (TYPE G)	OVERHEAD (TYPE O)		post ①	post ②	post ③	SIZE	LINEAR FEET			TOTAL WEIGHT LBS.	NON-REINF 12"Ø	LINEAR FEET REINFORCED		
															post ①	post ②	post ③			24"Ø	30"Ø	36"Ø
STR US181 011	SB US181 1115+23.82	016	GREEN	<div><div><div>INTERSTATE 37</div><div>SOUTH</div><div>Staples St</div><div>Bayfront</div><div>Leopard St</div><div>EXIT 3/4 MILE</div></div></div>	14'6" X 15'0" (174" x 180")					MOUNTED ON NEW OVERHEAD SIGN BRIDGE												
			GREEN	<div><div><div>INTERSTATE 37</div><div>NORTH</div><div>San Antonio</div><div>EXIT 1/2 MILE</div></div></div>	16'0" X 10'6" (192" x 126")																	
STR US181 013	SB US181 1136+83.87	017	GREEN	<div><div><div>INTERSTATE 37</div><div>SOUTH</div><div>Staples St</div><div>Bayfront</div><div>Leopard St</div><div>EXIT 1/4 MILE</div></div></div>	14'6" X 15'0" (174" x 180")					MOUNTED ON NEW OVERHEAD SIGN BRIDGE												
			GREEN	<div><div><div>INTERSTATE 37</div><div>NORTH</div><div>San Antonio</div><div></div></div></div>	16'0" X 11'6" (192" x 138")																	

NO.

BY

DATE

PRELIMINARY

FOR REVIEW ONLY

THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:

Engineer: Steven Ogburn

P.E. No.: 115334

Date: 5/1/17

ADVANCED STATUS

NOT FOR CONSTRUCTION

US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING SUMMARY OF LARGE SIGNS SOUTHBOUND US181/SH286

FLATIRON/DIRAGADOS

FLATIRON/DIRAGADOS LLC

AZTEC

2000 Berling Drive, Suite 102 Houston, Texas 77057 281-772-2880

DP-004

Texas Department of Transportation

© 2016

FED. RD. DIV. NO.

6

FEDERAL AID PROJECT NO.

HP X597 (1)

SHEET NO.

STR-LOSS

STATE

TEXAS

STATE DIST. NO.

CRP

COUNTY

NUECES

004

CONT.

0101

SECT

06

JOB




095

HIGHWAY NO.

US181




Plotted: 4/28/2017 7:23:53 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: pw:\stntec-sc-pw\ent\ey.com\stntec-sc-pw\Documents\01 Projects\HBR\Bui\ld\Work\Design\11-Traffic\AZTEC\11.01-Sheets\Sign\_Summaries\HBR\_STR\_LOSS\_004.dgn

[illegible]




NO.						BY	DATE
<b>PRELIMINARY</b>							
<b>FOR REVIEW ONLY</b>							
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:							
Engineer, <u>Steven Ogburn</u>							
P.E. No., <u>115334</u>							
Date, <u>5/1/17</u>							
<b>ADVANCED STATUS</b>							
<b>NOT FOR CONSTRUCTION</b>							
<b>US 181 HARBOR BRIDGE</b>							
<b>PAVEMENT MARKING &amp; SIGNING SUMMARY OF LARGE SIGNS NORTHBOUND US181/SK286</b>							
 <b>FLATIRON/DragADOS LLC</b>							
 2000 Berling Drive, Suite 702 Houston, Texas 77057 546-772-2880							
DP-004							
 <b>Texas Department of Transportation</b> © 2016							
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.					SHEET NO.	
6	HP X597 (1)					STR-L0SS	
STATE	STATE DIST. NO.	COUNTY				<b>005</b>	
TEXAS	CRP	NUECES					
CONT.	SECT	JOB				HIGHWAY NAME	
0101	06	095				US181	

[illegible]

Pen Tables: HBR\_BRG\_5A.tbl  
Design File: pw\stntec-sc-pw.bentley.com\stntec-sc-pw\Documents\01 Projects\HBR\Build Work\Design\11-Traffic\AZTEC\11.01-Sheets\Sig Summaries\HBR\_STR\_LOSS\_007.dgn

NO.			BY		DATE
<b>PRELIMINARY</b>					
<b>FOR REVIEW ONLY</b>					
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:					
Engineer, <u>Steven Ogburn</u>					
P.E. No., <u>115334</u>					
Date: <u>5/1/17</u>					
<b>ADVANCED STATUS</b>					
<b>NOT FOR CONSTRUCTION</b>					
US 181 HARBOR BRIDGE					
PAVEMENT MARKING & SIGNING SUMMARY OF LARGE SIGNS NORTHBOUND US181/SK286					
					
<b>FLATIRON/DragADOS LLC</b>					
 2000 Berling Drive, Suite 702 Houston, Texas 77057 546-772-2880					
DP--004					
 <b>Texas Department of Transportation</b>					
© 2016					
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.				SHEET NO.
6	HP X597 (1)				STR LOSS
STATE	STATE DIST. NO.			COUNTY	<b>007</b>
TEXAS	CRP			NUECES	
CONT.	SECT	JOB		HIGHWAY NO.	
0101	06	095		US181	

[illegible]

NO.						BY		DATE	
<b>PRELIMINARY</b>									
<b>FOR REVIEW ONLY</b>									
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:									
Engineer, <u>Steven Ogburn</u>									
P.E. No., <u>115334</u>									
Date, <u>5/1/17</u>									
<b>ADVANCED STATUS</b>									
<b>NOT FOR CONSTRUCTION</b>									
US 181 HARBOR BRIDGE									
PAVEMENT MARKING & SIGNING SUMMARY OF LARGE SIGNS NORTHBOUND US181/SB286									
 <b>FLATIRON DRAGADOS LLC</b>									
 2000 Berling Drive, Suite 702 Houston, Texas 77057 546-772-2880									
DP-004									
 <b>Texas Department of Transportation</b> © 2016									
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.					SHEET NO.			
6	HP X597 (1)					STR-LOSS			
STATE	STATE DIST. NO.	COUNTY			<b>008</b>				
TEXAS	CRP	NUECES							
CONT.	SECT	JOB			HIGHWAY NO.				
0101	06	095			US181				

Pen Table: HBR\_BRC\_5A.tbl  
Design File: pw\stntee\sc-pw.bentley.com\stntee\11-Traffic\AZTEC\11-01-Sheets\Sign\_Summar\tes\HBR\_STR\_LOSS\_008.dgn  
Plotted: 4/28/2017 7:32:44 AM

Design File: pw: \\stantec-sc-pw, bentley, com: stantec-sc-pw\Documents\01 Projects\HBR\Build Work\Design\11-01-Sheets\Sign Summaries\HBR\_STR\_S0SS-026.dgn

Plotted: 4/28/2017 7:35:19 AM  
Pen Table: HBR\_BRG\_5A.tbl

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

<http://www.txdot.gov/>

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD (GEN).

**PRELIMINARY**  
**FOR REVIEW ONLY**  
 THESE DOCUMENTS ARE PRELIMINARY  
 AND SUBJECT TO CHANGE. THEY ARE  
 NOT INTENDED FOR CONSTRUCTION OR  
 BIDDING. THEY WERE PREPARED BY,  
 OR UNDER THE SUPERVISION OF:  
Engineer, Steven Ogburn  
P.E. No., 115334  
Date, 5/1/17

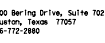
**NOT FOR  
CONSTRUCTION**

US 181 HARBOR BRIDGE

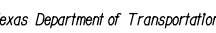
## PAVEMENT MARKING & SIGNING

### SUMMARY OF SMALL SIGNS

## CROSS STREETS



DP-004



FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-SOSS XSTR
STATE	STATE DIST. NO.	COUNTY	<b>026</b>
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	
0101	06	095	HIGHWAY NO. US181



[illegible]



















The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:

<http://www.txdot.gov/>

NO.		BY		DATE	
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <i>Engineer, <u>Steven Osburn</u></i> <i>P.E. No., <u>115334</u></i> <i>Date, <u>5/1/17</u></i>					
<b>ADVANCED STATUS</b> <b>NOT FOR</b> <b>CONSTRUCTION</b> US 181 HARBOR BRIDGE					
PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS CROSS STREETS					
 <b>FLATIRON/DragADOS LLC</b>					
  2000 Bering Drive, Suite 702 Houston, Texas 77057 346-772-2800 DP-004					
 Texas Department of Transportation © 2016					
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.			SHEET NO.
6		HP X597 (1)			STR-SOSS XSTR
STATE	STATE DIST. NO.	COUNTY		<b>027</b> HIGHWAY NO.	
TEXAS	CRP	NUECES			
CONT.	SECT	JOB			
0101	06	095		US181	

NO.		BY		DATE	
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <i>Engineer, <u>Steven Osburn</u></i> <i>P.E. No., <u>115334</u></i> <i>Date, <u>5/1/17</u></i>					
<b>ADVANCED STATUS</b> <b>NOT FOR</b> <b>CONSTRUCTION</b> US 181 HARBOR BRIDGE					
<b>PAVEMENT MARKING &amp; SIGNING</b> <b>SUMMARY OF SMALL SIGNS</b> <b>IH37 DIRECT CONNECT RAMPS</b> <b>AND CROSS STREETS</b>					
 <b>FLATIRONIDRAGADOS LLC</b>					
  2000 Bering Drive, Suite 702 Houston, Texas 77057 346-772-2860 DP-004					
 <b>Texas Department of Transportation</b> © 2016					
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.			SHEET NO.
6		HP X597 (1)			STR-SOSS DC+XSTR
STATE	STATE DIST. NO.	COUNTY			
TEXAS	CRP	NUECES		<b>028</b>	
CONT.	SECT	JOB		HIGHWAY NO.	
0101	06	095		US181	

Plotted: 4/28/2017 10:26:49 AM  
Pen Table: HBR\_BRC\_SA.tbl  
Design Files: \\stntec-sc-pw\ben\ley.com\stntec-sc-pw\ben\ley.com\stntec-sc-pw\Documents\01 Projects\HBR\_Bui\11-01-Sheets\Sign\_Summaries\HBR\_STR\_SOSS\_031.dgn

SUMMARY OF SMALL SIGNS - MAINLINE													
PLAN SHEET NO.	SIGN NO.	STATION	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY    XXXXX    (X)    XX    (X-XXXX)					BRIDGE MOUNT CLEARANCE SIGNS (See Note 2)
								POST TYPE	POSTS	ANCHOR TYPE	MOUNTING DESIGNATION		
											PREFABRICATED	1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	
													TY = TYPE
FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80								1 or 2	UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	P = "Plain" T = "T" U = "U"			TY N TY S
STR-US181 011	804	STA 1115+23.82 SB US181	ROUTE ASSEMBLY	(36" X 18") M3-3 (45" X 36") M1-4 (36" X 36") M1-6T     (36" X 36") M1-6T (30" X 24") M6-3	36" x 18" 45" x 36" 36" x 36" 36" x 18" 36" x 36" 30" X 24"					MOUNTED ON OVERHEAD SIGN STRUCTURE SIDE TOWER	U	EXAL	
STR-US181 011	805	STA 1117+00 US181	R2-1 (55)		48" x 60"	X		10BWG	1	SA	T	EXAL	
STR-US181 013	806	STA 1139+00 SB US181	W8-13aT		48" x 48"	X		10BWG		SA	T	EXAL	
STR-US181 013	808	STA 1140+55 SB US181	R5-1A  E5-1	 	42" x 30"  72" x 60"	X		10BWG	2	SA	T	EXAL	
STR-US181 014	810	STA 1151+00 SB US181	R5-1A  E5-1	 	42" x 30"  72" x 60"	X		10BWG	2	SA	T	EXAL	
STR-US181 014	811	STA 1152+00 SB US181	ROUTE ASSEMBLY	   (36" X 18") M3-3 (36" X 36") M1-6T (30" X 24") M6-3	36" X 18" 36" X 36" 30" X 24"	X		10BWG	1	SA	U	EXAL	
STR-US181 016	812	STA 1163+00 SB US181/SH286	ROUTE ASSEMBLY	M3-3 M1-6T 	36" x 18" 36" x 36"	X		10BWG	1	SA	T	EXAL	
STR-US181 016	813	STA 1168+80 SB SH286	W4-1R		48" x 48"	X		10BWG	1	SA	T	EXAL	
STR-US181 017	814	STA 1173+00 SB SH286	R2-1 (65)		48" x 60"	X		10BWG	1	SA	T	EXAL	
STR-US181 018	819	STA 1187+00 NB SH286	R5-1A  E5-1	 	42" x 30"  72" x 60"	X		10BWG	2	SA	T	EXAL	

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080"
7.5 to 15	0.100"
Greater than 15	0.125"

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.  
<http://www.txdot.gov/>

- NOTE:
- Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
  - For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
  - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

NO.	BY	DATE
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Osburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>		
<b>ADVANCED STATUS</b>		
<b>NOT FOR CONSTRUCTION</b>		
US 181 HARBOR BRIDGE		
PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS US181/SH286 MAINLINE		
 <b>FLATIRON DRAGADOS LLC</b>		
 2000 Berling Drive, Suite 102 Houston, Texas 77057 713-772-2880		
DP-004		
Texas Department of Transportation © 2016		
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597 (1)	STR-SOSS US181_ML
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

Design Documents\01 Projects\HBR\Build Work\Design\11-01-Sheets\Sign Summaries\HBR\_STR\_S05S-032.dgn  
File: pw:\stamtec-sc-pw\ben\ev.com\stamtec-sc-pw\Documents\01 Projects\HBR\Build Work\Design\11-01-Sheets\Sign Summaries\HBR\_STR\_S05S-032.dgn

Design Documents\01 Projects\HBR\Build Work\Design\11-01-Sheets\Sign Summaries\HBR\_STR\_S05S-032.dgn  
File: pw:\stamtec-sc-pw\ben\lev.com\stamtec-sc-pw\Documents\01 Projects\HBR\Build Work\Design\11-01-Sheets\Sign Summaries\HBR\_STR\_S05S-032.dgn

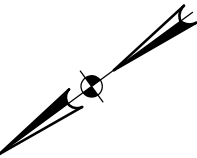
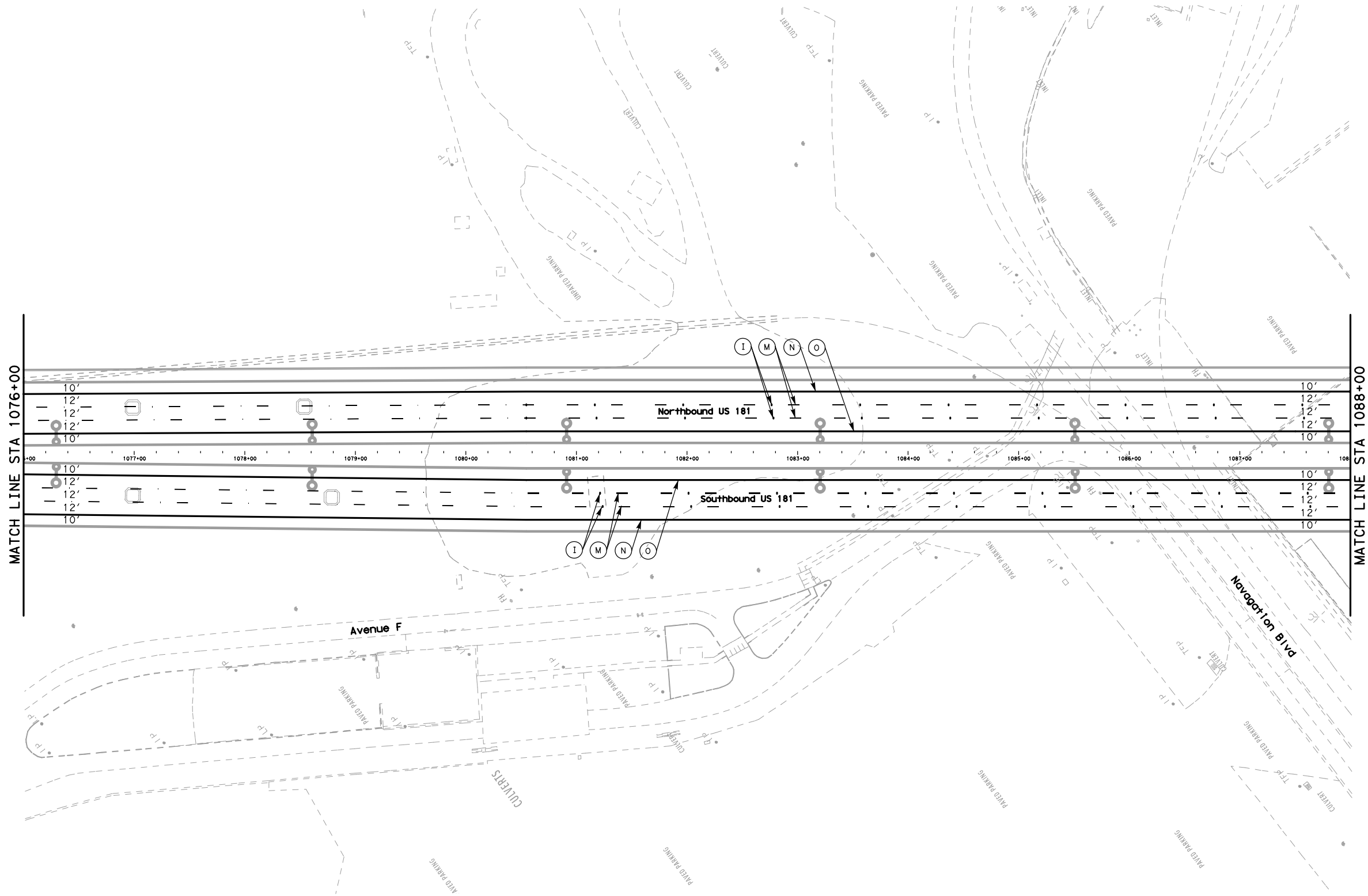
The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

<http://www.txdot.gov/>

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS) Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD (GEN).

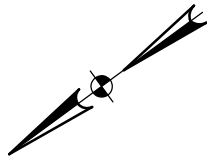
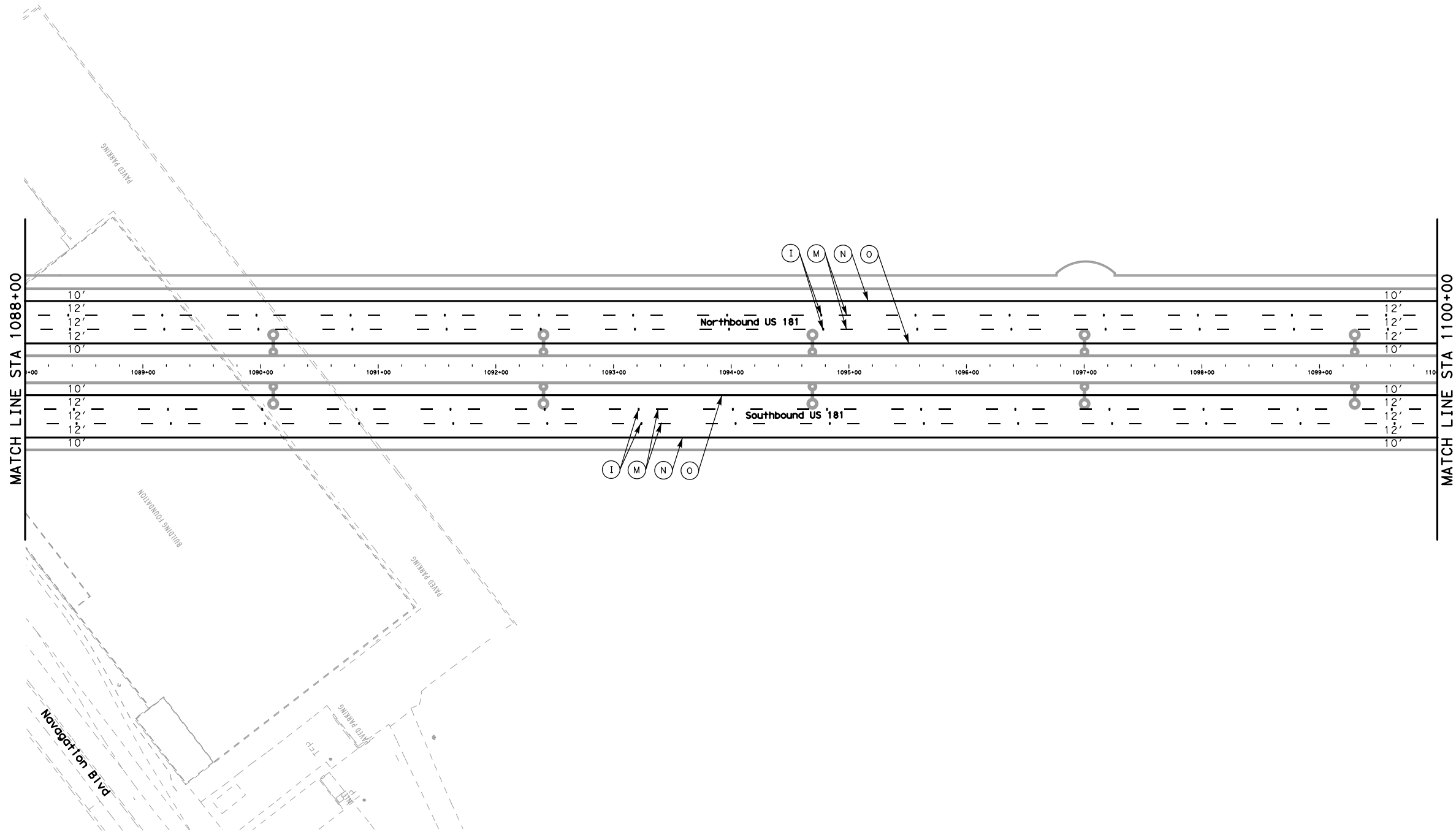
NO.			BY		DATE
<b>PRELIMINARY</b>					
<b>FOR REVIEW ONLY</b>					
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:					
Engineer: <u>Steven Ogburn</u>					
P.E. No.: <u>115334</u>					
Date: <u>5/1/17</u>					
<b>ADVANCED STATUS</b>					
<b>NOT FOR CONSTRUCTION</b>					
US 181 HARBOR BRIDGE					
PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS					
US181/SH286 MAINLINE					
 <b>FLATIRON/DRAGADOS LLC</b>					
 2002 Bering Drive, Suite 702 Houston, Texas 77057 281-772-2860					
DP-004					
 <b>Texas Department of Transportation</b> © 2016					
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.			SHEET NO.
6		HP X597 (1)			STR-SOSS US181_ML
STATE	STATE DIST. NO.	COUNTY			
TEXAS	CRP	NUECES			<b>032</b>
CONT.	SECT	JOB		HIGHWAY NO.	
0101	06	095		US181	

Plotted: 4/28/2017 7:43:15 AM  
Pen Table: HBR\_BRG\_SA.tbl  
Design Files: \\stntec-sc-pw\ent\ey.com\stntec-sc-pw\Documents\01 Projects\HBR\Bui\11-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P08.dgn



NO.		BY	DATE
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Osburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>			
<b>ADVANCED STATUS</b> <b>NOT FOR CONSTRUCTION</b> <b>US 181 HARBOR BRIDGE</b>			
<b>PAVEMENT MARKING &amp; SIGNING</b> <b>US181/SH286 - US 181 MAINLINE</b> <b>STA. 1076+00 - STA. 1088+00</b>			
 <b>FLATIRON/DRAGADOS LLC</b>			
 <b>AZTEC</b> 2020 Berling Drive, Suite 102 Houston, Texas 77057 281-772-2880			
DP-004			
 <b>Texas Department of Transportation</b> © 2016			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-US181
STATE	STATE DIST. NO.	COUNTY	<b>008</b>
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

Plotted: 4/28/2017 7:44:41 AM  
Pen Table: HBR\_BRG\_SA.tbl  
Design Files: \\stntec-sc-pw\ent\ey.com\stntec-sc-pw\Documents\01 Projects\HBR\Bui\1d\Work\Design\11-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P09.dgn



NO.		BY	DATE
-----	--	----	------

**PRELIMINARY**  
**FOR REVIEW ONLY**  
 THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:  
**Engineer: Steven Ogburn**  
**P.E. No. 115334**  
**Date: 5/1/17**

**ADVANCED STATUS**

**NOT FOR CONSTRUCTION**

**US 181 HARBOR BRIDGE**

**PAVEMENT MARKING & SIGNING**  
 US181/SH286 - US 181 MAINLINE  
 STA. 1088+00 - STA. 1100+00

**FLATIRON/DRAGADOS LLC**

**AZTEC** 2020 Berling Drive, Suite 102  
 Houston, Texas 77057  
 281-772-2880

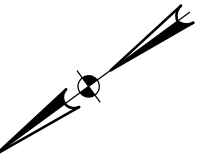
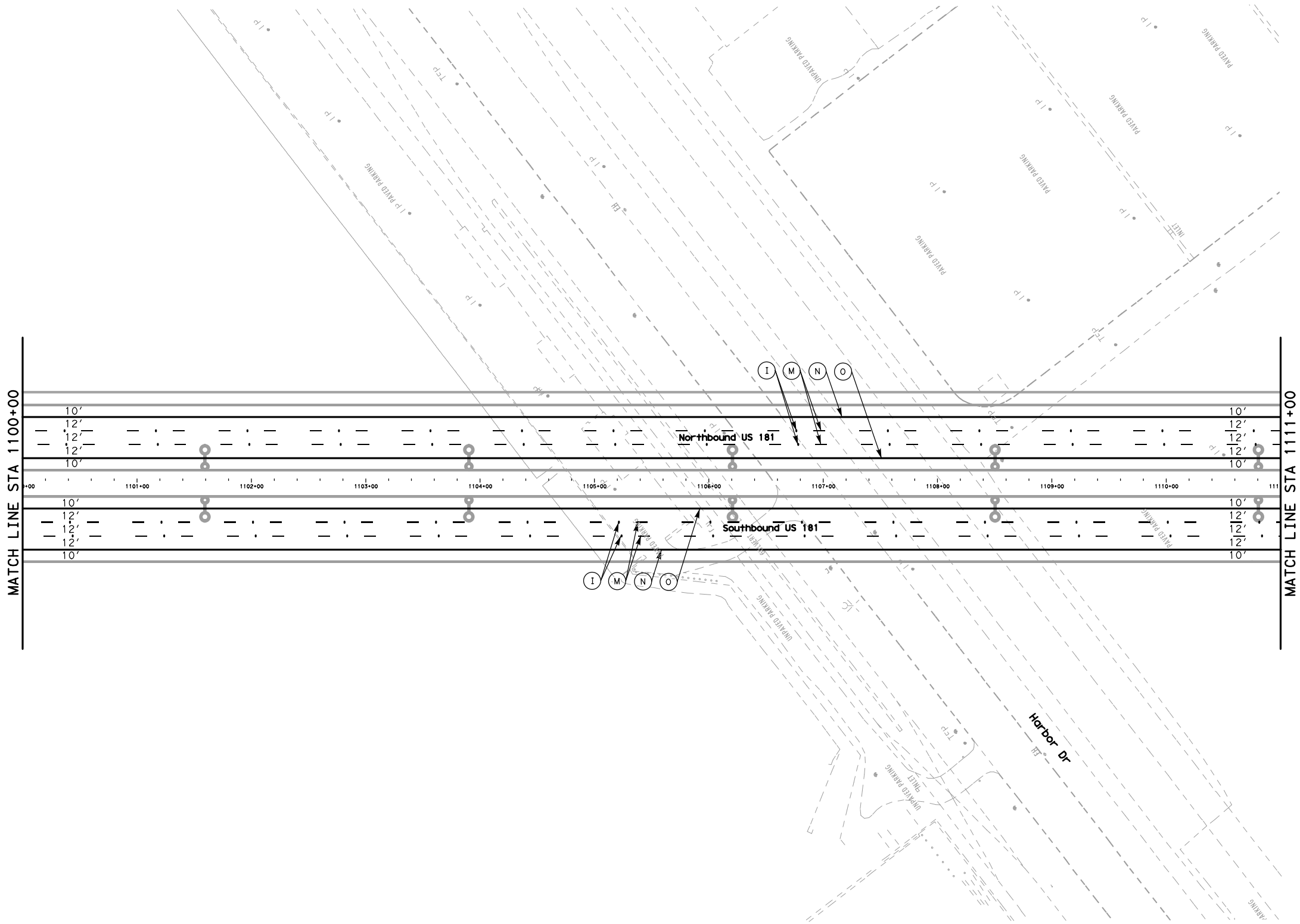
DP-004

**Texas Department of Transportation**  
 © 2016

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597(1)	STR-US181
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
HIGHWAY NO.		US181

**009**

Plotted: 4/28/2017 7:46:52 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\stntec-sc-pw-bentley.com\stntec-sc-pw\Documents\01 Projects\HBR\Bui\11-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P10.dgn



NO.		BY		DATE	
-----	--	----	--	------	--

**PRELIMINARY**

**FOR REVIEW ONLY**

THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:

Engineer: **Steven Osburn**

P.E. No.: **115334**

Date: **5/1/17**

**ADVANCED STATUS**

**NOT FOR CONSTRUCTION**

**US 181 HARBOR BRIDGE**

**PAVEMENT MARKING & SIGNING**

**US181/SH286 - US 181 MAINLINE**

**STA. 1100+00 - STA. 1111+00**

**FLATIRON/DRAGADOS LLC**

**AZTEC**

2000 Berling Drive, Suite 102  
Houston, Texas 77057  
281-772-2880

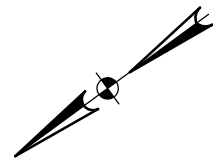
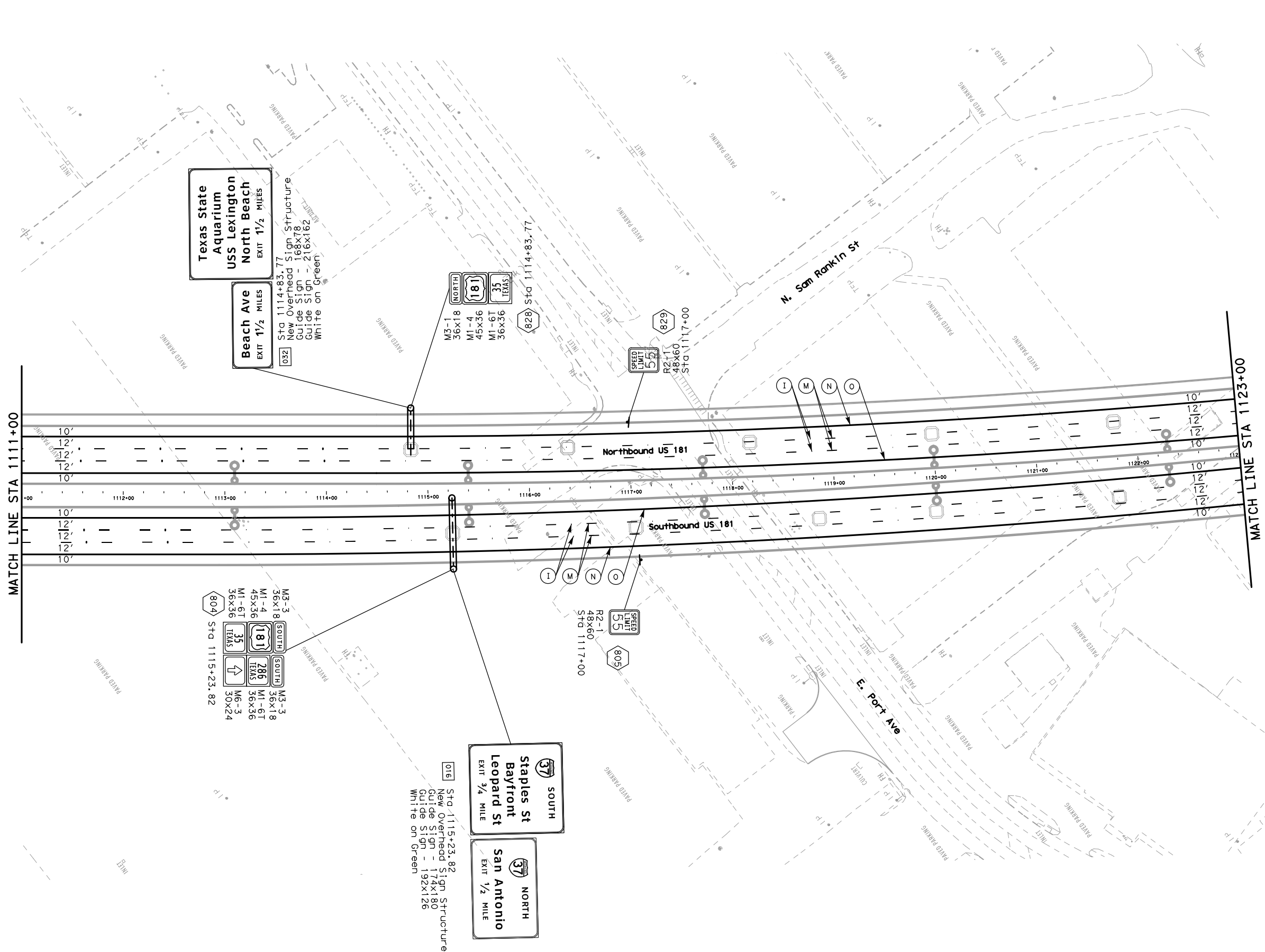
DP-004

**Texas Department of Transportation**

© 2016

FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		SHEET NO.	
6		HP X597(1)		STR-US181	
STATE		COUNTY		<b>010</b>	
TEXAS		NUECES			
CONT.		JOB		HIGHWAY NO.	
0101		095		US181	

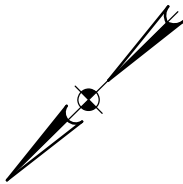
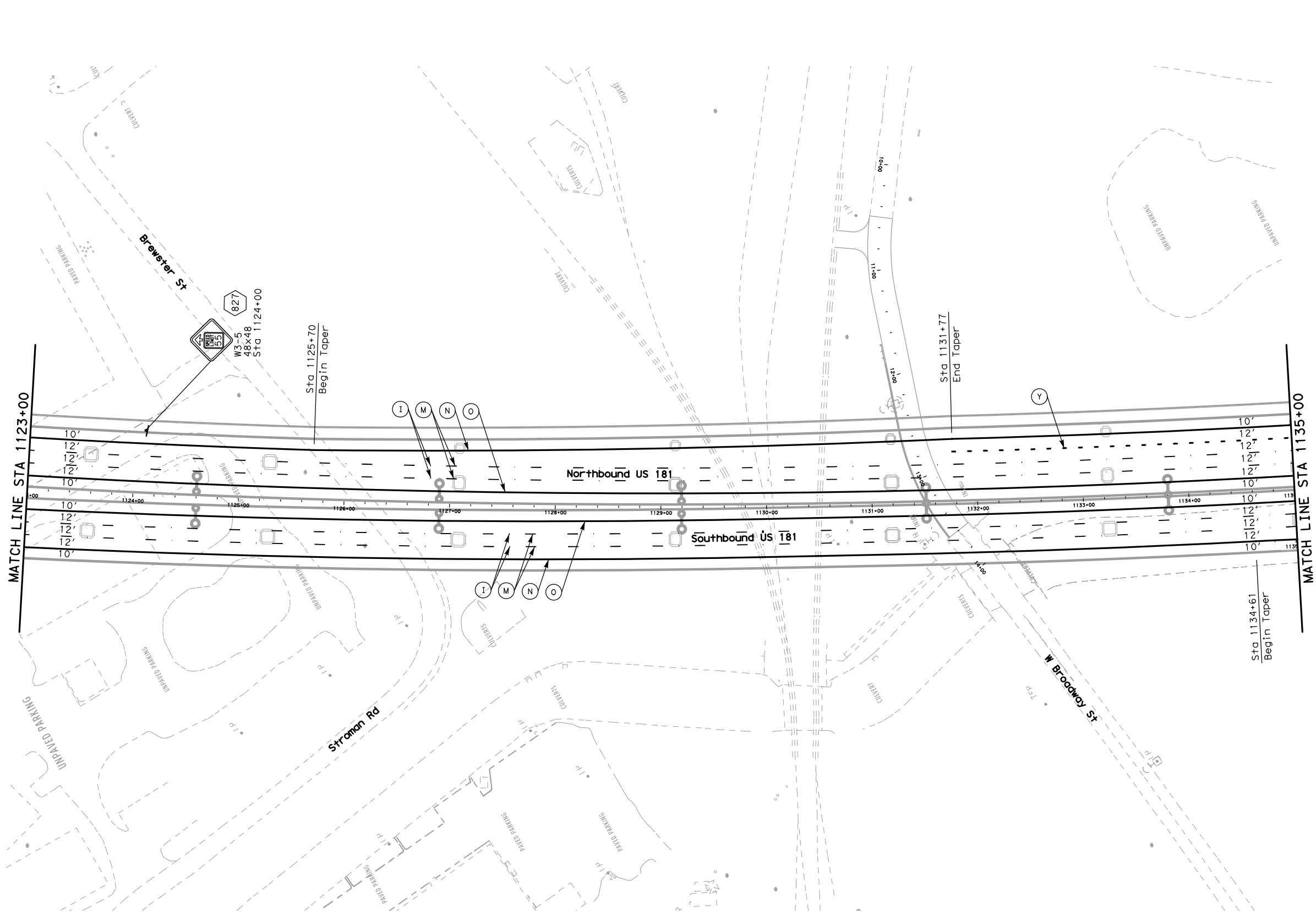
Plotted: 4/28/2017 7:52:31 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\stntec-sc-pw\ent\ey.com\stntec-sc-pw\Documents\01 Projects\HBR\Bui\1-Traffic\AZTEC\11.01-Sheets\Segment 4, 7, 12 & 13(Bridge)\HBR\_STR\_US181\_P11.dgn






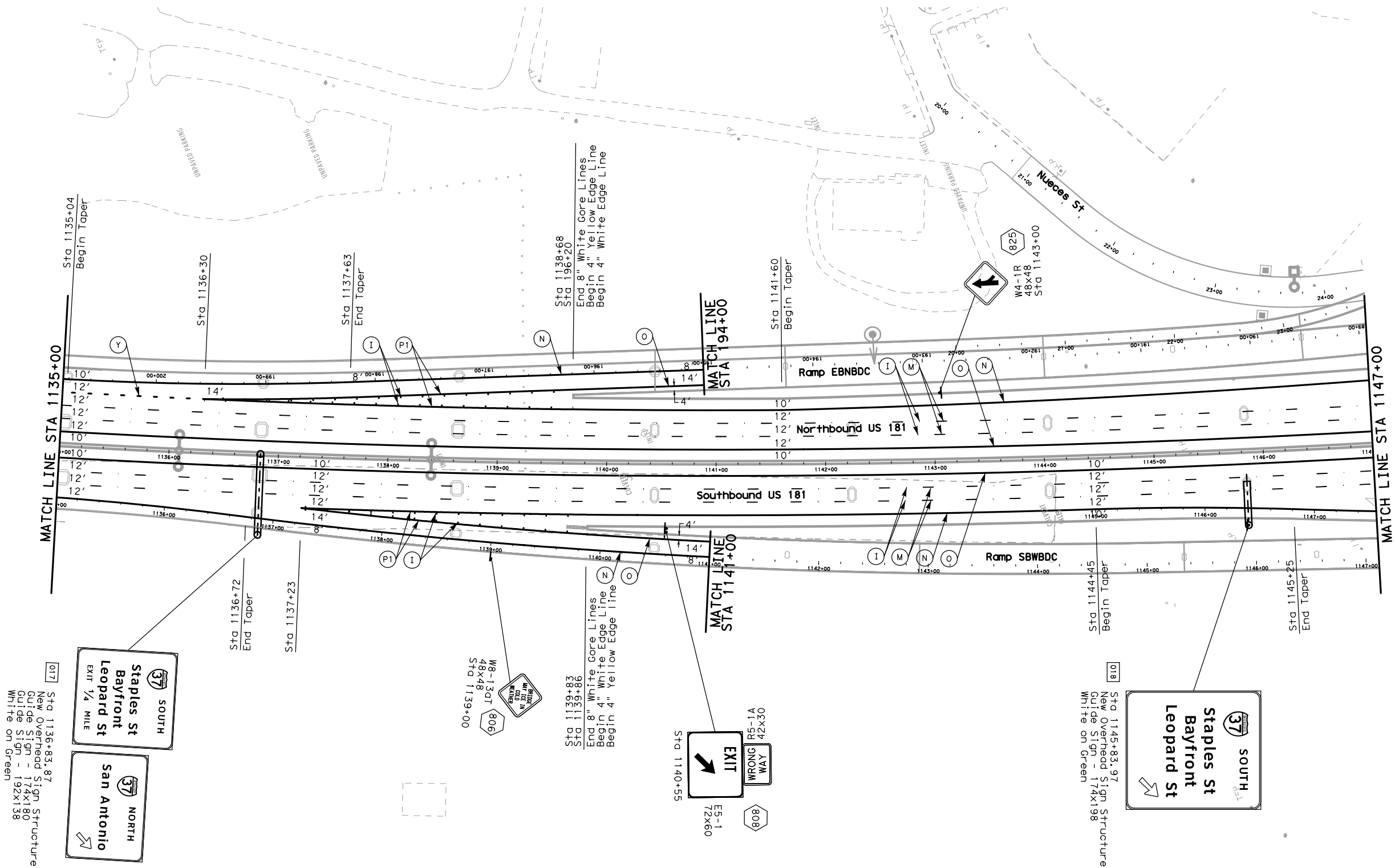
NO.		BY	DATE
<b>PRELIMINARY</b> FOR REVIEW ONLY THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Ogburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>			
<b>ADVANCED STATUS</b>			
<b>NOT FOR CONSTRUCTION</b>			
<b>US 181 HARBOR BRIDGE</b>			
<b>PAVEMENT MARKING &amp; SIGNING</b> US181/SH286 - US 181 MAINLINE STA. 1111+00 - STA. 1123+00			
 <b>FLATIRON/DRAGADOS LLC</b>			
 <b>AZTEC</b> 2000 Berling Drive, Suite 102 Houston, Texas 77057 281-772-2880			
 <b>Texas Department of Transportation</b> © 2016			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-US181
STATE	STATE DIST. NO.	COUNTY	<b>011</b>
TEXAS	CRP	NUECES	HIGHWAY NO.
0101	06	095	US181



Plotted: 4/28/2017 7:54:41 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\stantec-sc-pw\ent\ey.com\stantec-sc-pw\Documents\01 Projects\HBR\Bui\1-Traffic\AZTEC\11-01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P12.dgn



NO.		BY		DATE
<b>PRELIMINARY</b> FOR REVIEW ONLY THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Osburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>				
<b>ADVANCED STATUS</b>				
<b>NOT FOR CONSTRUCTION</b>				
<b>US 181 HARBOR BRIDGE</b>				
<b>PAVEMENT MARKING &amp; SIGNING</b> US181/SH286 - US 181 MAINLINE STA. 1123+00 - STA. 1135+00				
 <b>FLATIRON/DRAGADOS LLC</b>				
 <b>AZTEC</b> 2000 Biering Drive, Suite 702 Houston, Texas 77057 281-772-2880				
DP-004				
 Texas Department of Transportation				
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		SHEET NO.
6		HP X597(1)		STR-US181
STATE	STATE DIST. NO.	COUNTY		<b>012</b>
TEXAS	CRP	NUECES		
CONT.	SECT	JOB	HIGHWAY NO.	
0101	06	095	US181	



NO. BY DATE

PRELIMINARY

FOR REVIEW ONLY

THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:

Engineer: **Steven Osburn**

P.E. No. **115334**

Date: **5/1/17**

ADVANCED STATUS

NOT FOR CONSTRUCTION

US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING

US181/SH286 - US 181 MAINLINE  
STA. 1135+00 - STA. 1147+00

FLATIRON/DRAGADOS LLC

AZTEC

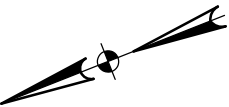
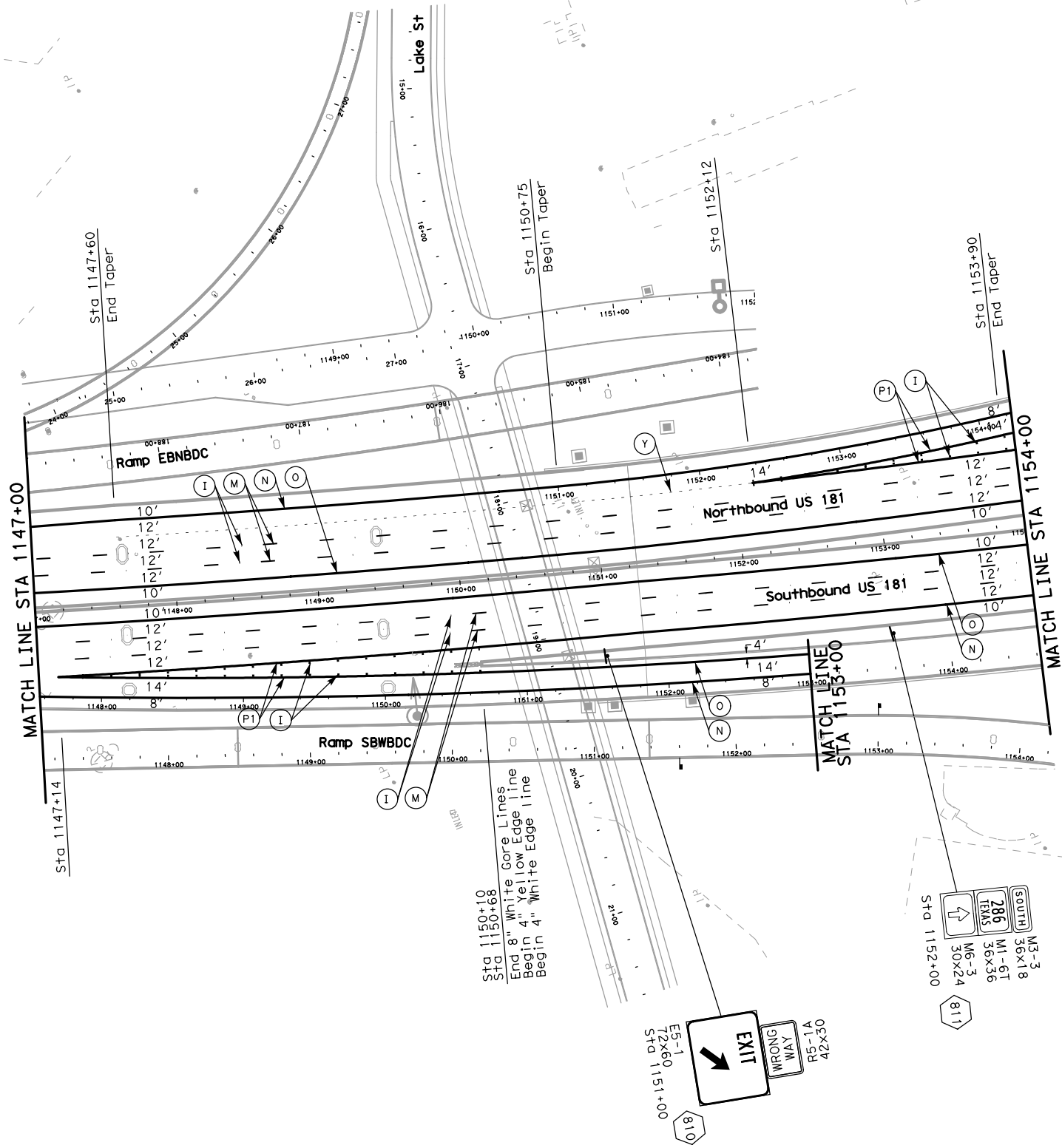
2000 Berling Drive, Suite 702  
Houston, Texas 77057  
281-772-2880




Texas Department of Transportation

© 2016

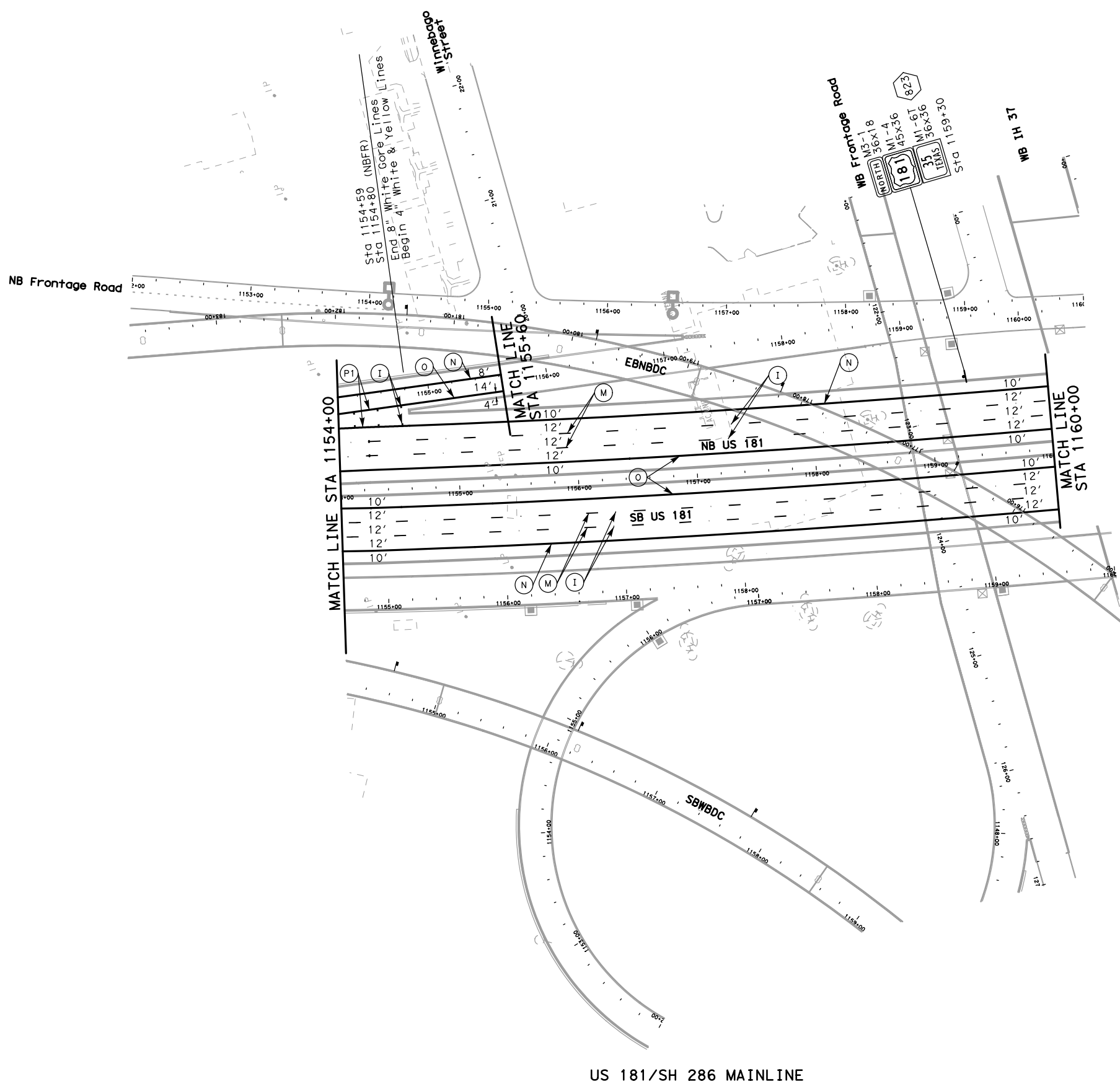
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597(1)	STR-US181
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

Plotted: 4/28/2017 8:00:24 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design Files: \\santec-sc-pw\ent\ey.com\santec-sc-pw\Documents\01 Projects\HBR\Bui\1-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P14.dgn






<b>PRELIMINARY</b> FOR REVIEW ONLY <small>THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:</small> <b>Engineer: Steven Osburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>		
<b>ADVANCED STATUS</b> <b>NOT FOR CONSTRUCTION</b> <b>US 181 HARBOR BRIDGE</b>		
<b>PAVEMENT MARKING &amp; SIGNING</b> <b>US181/SH286 - US 181 MAINLINE</b> <b>STA. 1147+00 - STA. 1154+00</b>		
 <b>FLATIRON/DRAGADOS LLC</b>		
 <small>2000 Biering Drive, Suite 102 Houston, Texas 77057 281-772-2880</small>		
 Texas Department of Transportation <small>© 2016</small>		
FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. HP X597 (1)	SHEET NO. STR-US181 <b>014</b>
STATE TEXAS	STATE DIST. NO. CRP	COUNTY NUECES
CONT. 0101	SECT 06	JOB 095 HIGHWAY NO. US181

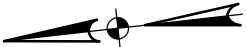
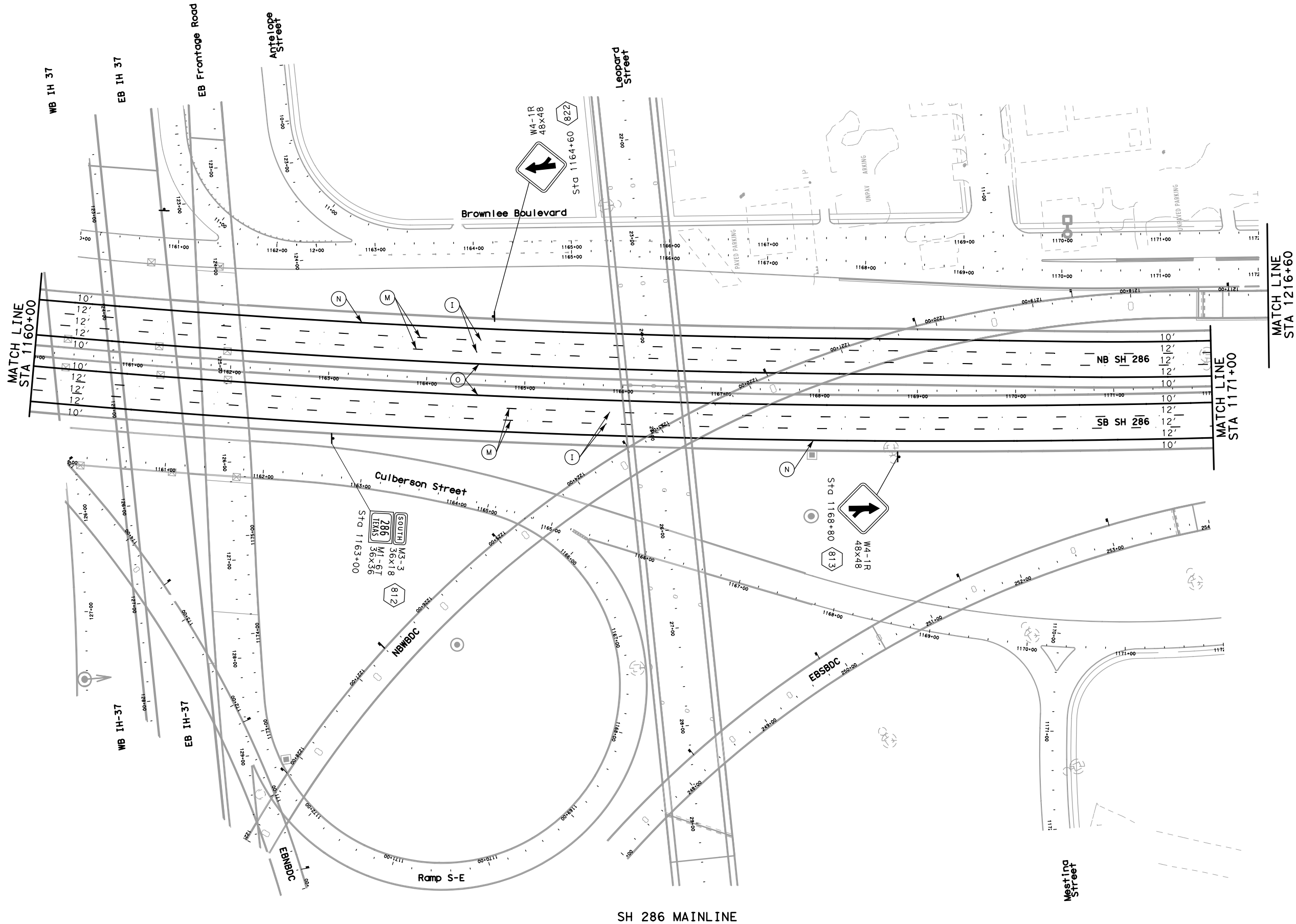
Plotted: 4/28/2017 8:02:39 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design File: \\stantec-sc-pw-bentley.com\stantec-sc-pw\Documents\01 Projects\HBR\Bui\1-Traffic\AZTEC\11.01-Sheets\Segment 4, 7, 12 & 13(Bridge)\HBR\_STR\_US181\_P15.dgn



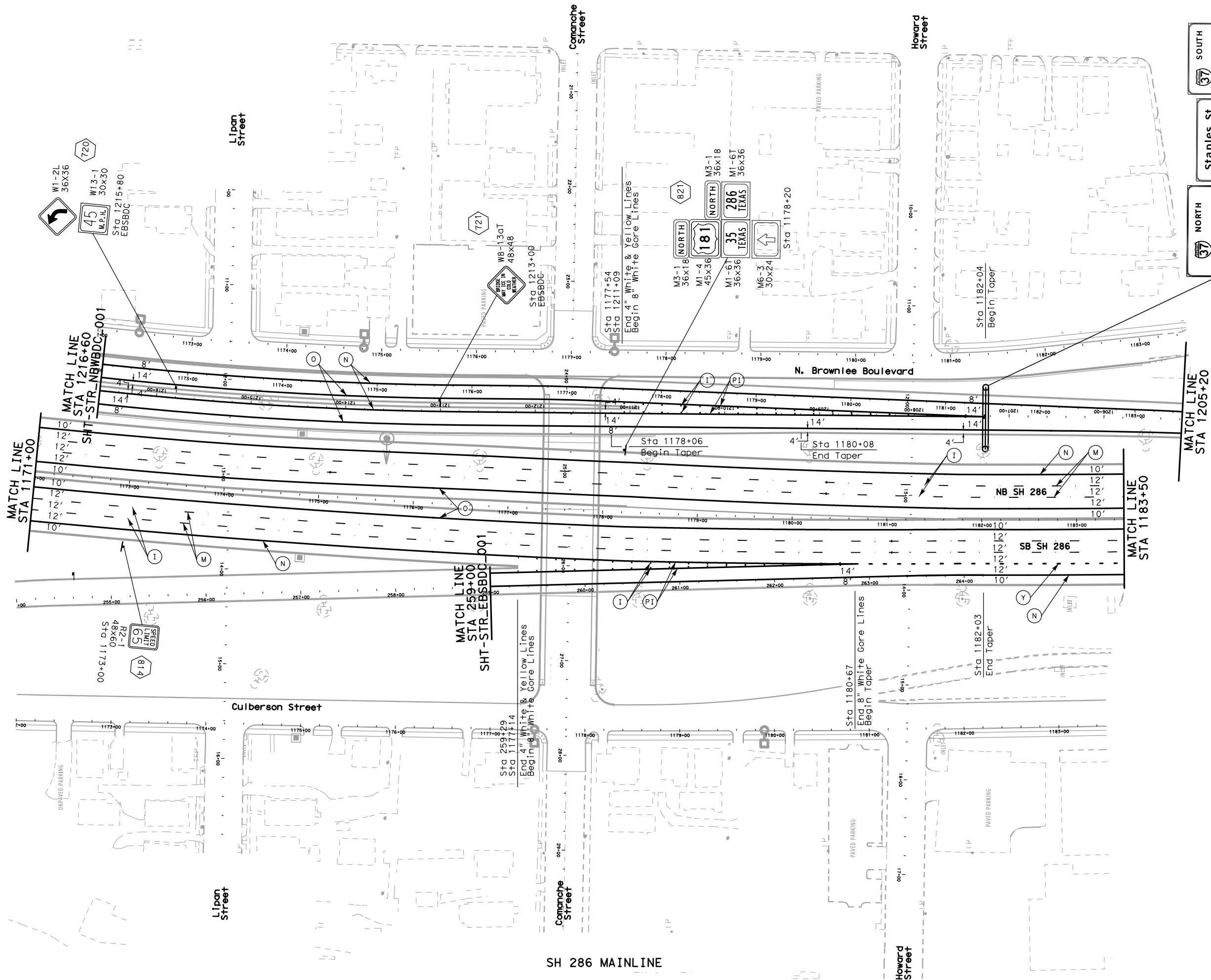
US 181/SH 286 MAINLINE

NO.				BY				DATE			
<b>PRELIMINARY</b> FOR REVIEW ONLY THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Ogburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>											
<b>ADVANCED STATUS</b>											
<b>NOT FOR CONSTRUCTION</b>											
<b>US 181 HARBOR BRIDGE</b>											
<b>PAVEMENT MARKING &amp; SIGNING</b> US 181/SH 286 MAINLINE STA. 1154+00 - STA. 1160+00											
 <b>FLATIRON/DRAGADOS LLC</b>											
 <b>AZTEC</b> 2000 Biering Drive, Suite 102 Houston, Texas 77057 281-772-2880											
 Texas Department of Transportation © 2016											
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.						SHEET NO.			
6		HP X597 (1)						STR-US181			
STATE		STATE DIST. NO.		COUNTY		015					
TEXAS		CRP		NUECES		015					
CONT.		SECT		JOB		HIGHWAY NO.					
0101		06		095		US181					

Plotted: 4/28/2017 8:04:12 AM  
Pen Table: HBR\_BRG\_SA.tbl  
Design Files: \\stantec-sc-pw-bentley.com\stantec-sc-pw\Documents\01 Projects\HBR\_Bui\1-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P16.dgn



NO.		BY		DATE
<p><b>PRELIMINARY</b>  <b>FOR REVIEW ONLY</b>          THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:  <b>Engineer: Steven Ogburn</b>  <b>P.E. No. 115334</b>  <b>Date: 5/1/17</b></p>				
<p><b>ADVANCED STATUS</b>  <b>NOT FOR CONSTRUCTION</b>  <b>US 181 HARBOR BRIDGE</b></p>				
<p><b>PAVEMENT MARKING &amp; SIGNING</b>  <b>US 181/SH 286 MAINLINE</b>  <b>STA. 1160+00 - STA. 1171+00</b></p>				
<p><b>FLATIRON/DIAGRADOS LLC</b></p>				
<p><b>AZTEC</b> 2000 Berling Drive, Suite 702 Houston, Texas 77057 281-772-2880</p>				
<p>Texas Department of Transportation          © 2016</p>				
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			SHEET NO.
6	HP X597(1)			STR-US181
STATE	DIST. NO.	COUNTY		<b>016</b>
TEXAS	CRP	NUECES		
CONT.	SECT	JOB	HIGHWAY NO.	
0101	06	095	US181	



**San Antonio**  
NORTH  
37  
Guide Sign 192x138

**Staples St**  
Leopard St  
Guide Sign 174x120

**Bayfront**  
SOUTH  
37  
Guide Sign 150x138

Sta 1181+43  
New Overhead Sign Structure  
White on Green

**PRELIMINARY**  
FOR REVIEW ONLY  
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:  
**Engineer: Steven Ogburn**  
P.E. No. 115334  
Date: 5/1/17

**ADVANCED STATUS**  
**NOT FOR CONSTRUCTION**  
**US 181 HARBOR BRIDGE**

**PAVEMENT MARKING & SIGNING**  
**SH 286 MAINLINE**  
**STA. 1171+00 - STA. 1183+50**

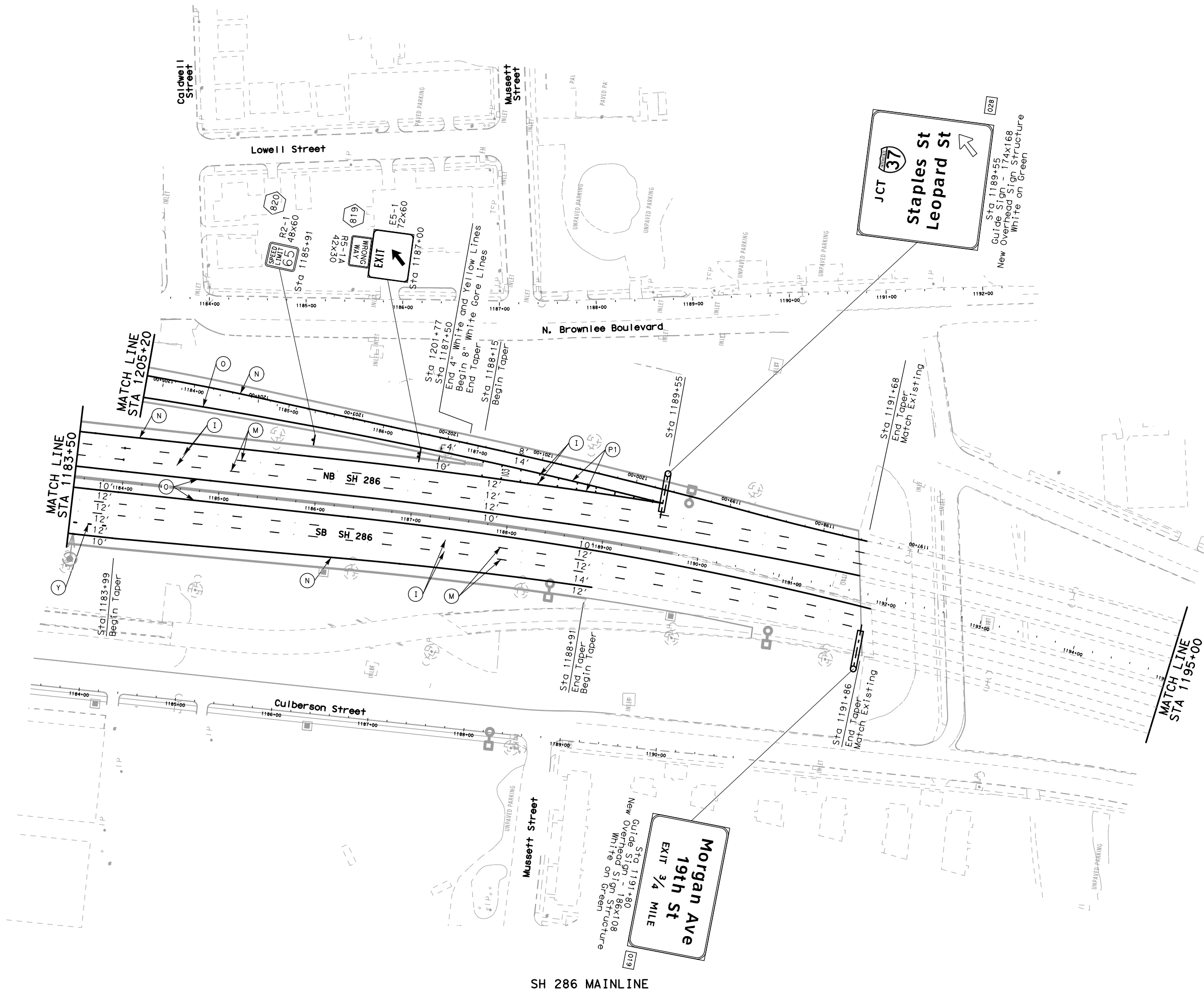
**FLATIRON/Dragados LLC**

**AZTEC** 2000 Berling Drive, Suite 102  
Houston, Texas 77057  
713-772-2880

Texas Department of Transportation  
© 2016

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-US181
STATE	STATE DIST. NO.	COUNTY	<b>017</b>
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

Plotted: 4/28/2017 8:18:58 AM  
Pen Table: HBR\_BRG\_SA.tbl  
Design Files: \\stantec-sc-pw\ent\ey.com\stantec-sc-pw\Documents\01 Projects\HBR\Bui\1d\Work\Design\11-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P18.dgn



NO. BY DATE

**PRELIMINARY**  
FOR REVIEW ONLY  
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:  
**Engineer: Steven Ogburn**  
**P.E. No. 115334**  
**Date: 5/1/17**

ADVANCED STATUS

**NOT FOR CONSTRUCTION**  
US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING

SH 286 MAINLINE  
STA. 1183+50 - STA. 1195+00

FLATIRON/DRAGADOS LLC

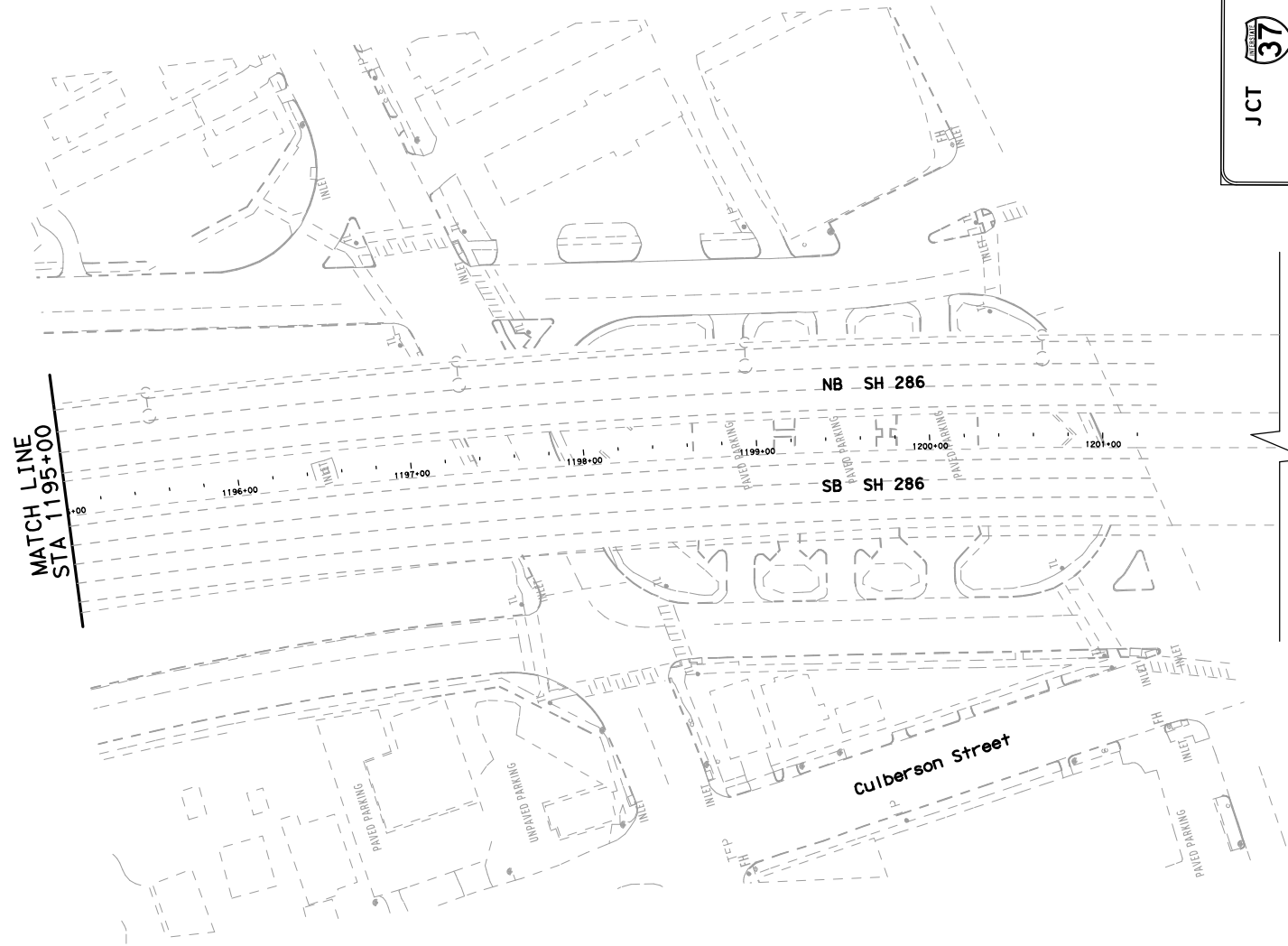
AZTEC  
2020 Berling Drive, Suite 102  
Houston, Texas 77057  
281-772-2880

DP-004

Texas Department of Transportation  
© 2016

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597(1)	STR-US181
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

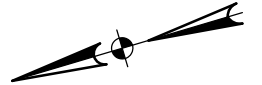
Plotted: 4/28/2017 8:38:03 AM  
Pen Table: HBR\_BRG\_SA.tbl  
Design Files: \\stantec-sc-pw\ent\ey.com\stantec-sc-pw\Documents\01 Projects\HBR\Bui\1-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_US181\_P19.dgn



027  
JCT  
Staples St  
Leopard St  
EXIT 1/2 MILE  
Sta 1215+94  
Guide Sign - 174x156  
New Overhead Sign Structure  
White on Green

026  
JCT  
Staples St  
Leopard St  
EXIT 1 MILE  
Sta 1242+80  
Guide Sign - 174x156  
New Overhead Sign Structure  
White on Green

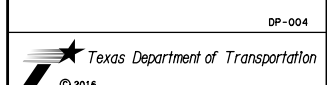
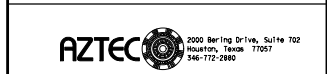
025  
JCT  
Staples St  
Leopard St  
EXIT 2 1/4 MILES  
Sta 1308+34  
Guide Sign - 174x156  
Existing Sign Bridge  
White on Green



**PRELIMINARY**  
**FOR REVIEW ONLY**  
THESE DOCUMENTS ARE PRELIMINARY  
AND SUBJECT TO CHANGE. THEY ARE  
NOT INTENDED FOR CONSTRUCTION OR  
BIDDING. THEY WERE PREPARED BY,  
OR UNDER THE SUPERVISION OF:  
**Engineer: Steven Ogburn**  
**P.E. No. 115334**  
**Date: 5/1/17**

**ADVANCED STATUS**  
**NOT FOR CONSTRUCTION**  
**US 181 HARBOR BRIDGE**

**PAVEMENT MARKING & SIGNING**  
**SH 286 MAINLINE**  
**STA. 1195+00 - STA. 1308+34**  
  
SCALE: 1"=100' H



FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597 (1)		STR-US181
STATE	STATE DIST. NO.	COUNTY	<b>019</b>
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181








**DP-004**

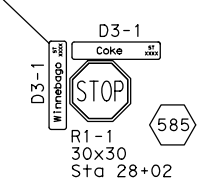
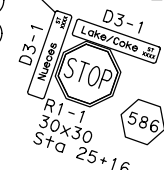
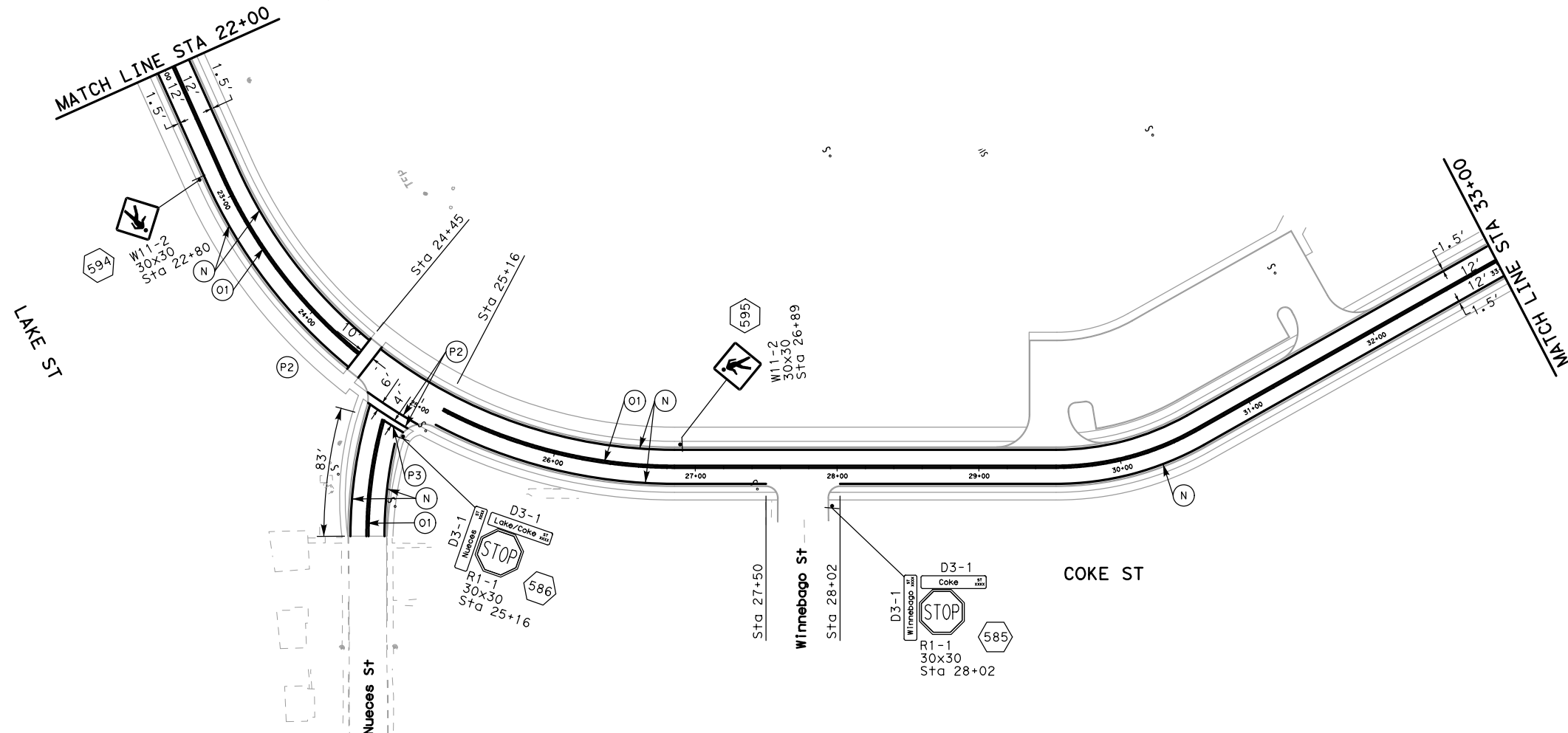


<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <i>Engineer: <u>Steven Oaburn</u></i> <i>P.E. No.: <u>115334</u></i> <i>Date: <u>5/1/17</u></i>			
<b>ADVANCED STATUS</b>			
<b>NOT FOR CONSTRUCTION</b>			
<b>US 181 HARBOR BRIDGE</b>			
<b>PAVEMENT MARKING &amp; SIGNING</b>  <b>MESTINA STREET</b> <b>STA. 1172+00 - STA. 1179+00</b>			
 <b>FLATIRON/Dragados LLC</b>			
 <div style="display: inline-block; vertical-align: middle; text-align: left; margin-left: 10px;">             2000 Bering Drive, Suite 702              Houston, Texas 77057              346-772-2880           </div>			
<b>DP-004</b>			
 <b>Texas Department of Transportation</b> © 2016			
<b>FED. RD. DIV. NO.</b> 6	<b>FEDERAL AID PROJECT NO.</b> HP X597 (1)		<b>SHEET NO.</b>
<b>STATE</b>	<b>STATE DIST. NO.</b>	<b>COUNTY</b>	<b>STR-XRME</b>
<b>TEXAS</b>	<b>CRP</b>	<b>NUECES</b>	<b>001</b>
<b>CONT.</b>	<b>SECT</b>	<b>JOB</b>	<b>HIGHWAY NO.</b>
<b>0101</b>	<b>06</b>	<b>095</b>	<b>US181</b>



NO.			BY		DATE
<b>PRELIMINARY</b>					
<b>FOR REVIEW ONLY</b>					
THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF:					
Engineer: <u>Steven Osburn</u>					
P.E. No.: <u>115334</u>					
Date: <u>5/1/17</u>					
<b>ADVANCED STATUS</b>					
<b>NOT FOR CONSTRUCTION</b>					
US 181 HARBOR BRIDGE					
<b>PAVEMENT MARKING &amp; SIGNING</b>					
US181/SH286 - CROSS STREETS LAKE STREET STA. 10+00 - STA. 22+00					
 <b>FLATIRON DRAGADOS LLC</b>					
 2000 Baring Drive, Suite 702 Houston, Texas 77057 714-772-2880					
DP-004					
 Texas Department of Transportation © 2016					
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			SHEET NO.	
6	HP X597 (1)			STR-XRL	
STATE	STATE DIST. NO.	COUNTY		00	
TEXAS	CRP	NUECES		00	
CONT.	SECT	JOB		HIGHWAY NO.	
0101	06	095		US18	

Plotted: 4/28/2017 10:10:44 AM  
Pen Table: HBR\_BRG\_5A.tbl  
Design File: pw:\stntec-sc-pw\ben\ley.com\stntec-sc-pw\Documents\01 Projects\HBR\Bui\ld\Work\Design\11-Traffic\AZTEC\11.01-Sheets\Segment 4,7,12 & 13(Bridge)\HBR\_STR\_XRLK\_P02.dgn



LAKE/COKE ST

NO.		BY		DATE	
<b>PRELIMINARY</b> <b>FOR REVIEW ONLY</b> THESE DOCUMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE. THEY ARE NOT INTENDED FOR CONSTRUCTION OR BIDDING. THEY WERE PREPARED BY, OR UNDER THE SUPERVISION OF: <b>Engineer: Steven Ogburn</b> <b>P.E. No. 115334</b> <b>Date: 5/1/17</b>					
<b>ADVANCED STATUS</b>					
<b>NOT FOR CONSTRUCTION</b>					
<b>US 181 HARBOR BRIDGE</b>					
<b>PAVEMENT MARKING &amp; SIGNING</b> <b>US181/SH286 - CROSS STREETS</b> <b>LAKE STREET</b> <b>STA. 22+00 - STA. 33+00</b>					
 2000 Biering Drive, Suite 102 Houston, Texas 77057 281-772-2880					
DP-004					
Texas Department of Transportation					
© 2016					
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		SHEET NO.	
6		HP X597(1)		STR-XRLK	
STATE		COUNTY		002	
TEXAS		NUECES		002	
CONT.		JOB		HIGHWAY NO.	
0101		095		US181	