











































Work Package	RD03S Package 3: Frontage Roads and Mainline West of US181/SH286 - Signing & Striping
Revision	A0
Submittal Stage	Advance Status
Date	5/19/2017



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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		REFL PAV MRK W/RET REQ TY I (W) 4" (BRK)		ELIM EXT PAV MRK & MRKR (4IN)
	EXIST SMALL SIGN TO BE REMOVED				REFL PAV MRK W/RET REQ TY I (Y) 4" (BRK)		ELIM EXT PAV MRK MRKR (18" AND 36")
	EXIST LARGE SIGN TO BE REMOVED		REFL PAV MRKR TY II-C-R		REFL PAV MRK W/RET REQ TY I (W) 4" (SLD)		ELIM EXT PAV MRK & MRKR (WORD)
	PROPOSED SMALL SIGN		REFL PAV MRKR TY I-C		REFL PAV MRK W/RET REQ TY I (Y) 4" (SLD)		"ONLY" "MERGE" PREFAB PAV MRK TY C (W) (WORD)
	PROPOSED LARGE SIGN OR OVHD SIGN		REFL PAV MRKR TY II-Y-Y		REFL PAV MRK TY I (Y) 4" (SLD) (DBL)		 PREFAB PAV MRK TY C (W) (ARROW)
	EXISTING SIGN TO REMAIN		INSTL DEL ASSM (D-SW)SZ 1 (FLX)GF2		REFL PAV MRK TY I (BLACK) 6" (SHADOW) (100 MIL)		EXISTING PAV MRK TO REMAIN
	PROPOSED SMALL SIGN ASSEMBLY		INSTL DEL ASSM (D-SY)SZ 1 (FLX)GF2		REFL PAV MRK TY I (W) 8" (SLD) (100 MIL)		RAILROAD CROSSING
	EXISTING SMALL SIGN ASSEMBLY TO REMAIN		INSTL DEL ASSM (D-SW)SZ (BR)CTB AT 80' SPA		REFL PAV MRK TY I (W) 12" (SLD) (100 MIL)		4" DOTTED WHITE LINE (3' LINE, 9' GAP)
	PROPOSED LARGE SIGN ASSEMBLY, GROUND MOUNT		INSTL DEL ASSM (D-SY)SZ (BR)CTB AT 80' SPA		REFL PAV MRK TY I (W) 24" (SLD) (100 MIL)		4" DOTTED WHITE LINE (2' LINE, 6' GAP)
	PROPOSED OVERHEAD SIGN BRIDGE STRUCTURE				REFL PAV MRK TY I (Y) 24" (SLD) (100 MIL)		YIELD LINES
	PROPOSED CANTILEVER SIGN STRUCTURE						

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
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PRE-FINAL SUBMITTAL			
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US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING GENERAL NOTES AND LEGEND			
<div><div>FLATIRON/DRAGADOS</div><div>FLATIRON/DRAGADOS LLC</div></div>			
<div><div>AZTEC</div><div><div><div>2000 Berling Drive, Suite 102</div><div>Houston, Texas 77057</div><div>713-772-2880</div></div></div></div>			
DP-001			
<div><div></div><div>Texas Department of Transportation</div><div>© 2016</div></div>			
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6	HP X597 (1)		STR-GN
STATE	STATE DIST. NO.	COUNTY	001
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

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INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION	REVISION
STR-FM; 004 TO 005	LARGE SIGN FORMATS	A0
STR-OSSE; 010 TO 013	OVERHEAD SIGN ELEVATIONS	A0
STR-LOSS; 011 TO 014	SUMMARY OF LARGE SIGNS: IH 37 MAINLINE	A0
STR-SOSS; 029, 033, 034, 035, 036, 043, 044, 045, 046, 047, 058, 059	SUMMARY OF SMALL SIGNS: FRONTAGE ROAD/DC/XROADS	A0
STR-SOSS; 037, 042	SUMMARY OF SMALL SIGNS: IH 37 MAINLINE	
STR-I37; 005 TO 008	PAVEMENT MARKING AND SIGNING, IH 37 MAINLINE STA 122+00 TO STA 171+00	A0
STR-EWFR; 003 TO 006	PAVEMENT MARKING AND SIGNING, EASTBOUND/WESTBOUND FRONTAGE ROADS STA 122+00 TO STA 172+00	A0

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P.E. No.: 115334


Date: 5/11/17

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US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING
IH37 - MAINLINE AND FRONTAGE ROADS
INDEX OF SHEETS




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Houston, Texas 77057
281-772-2880

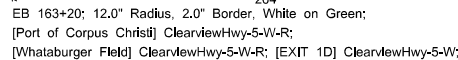
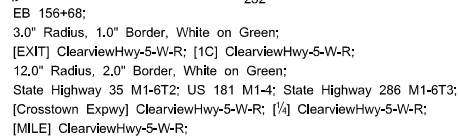
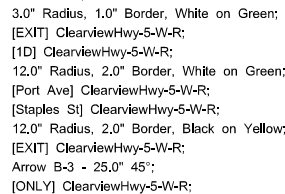
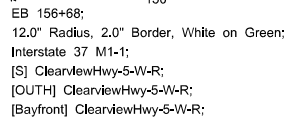
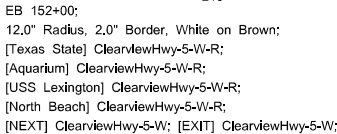
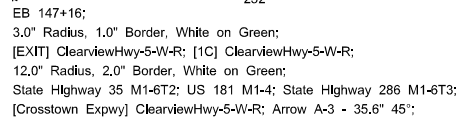
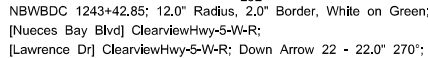
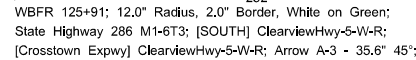
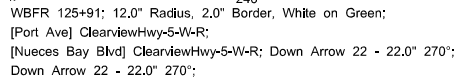
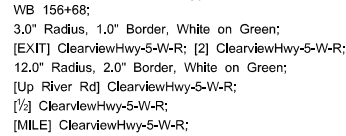
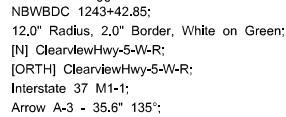
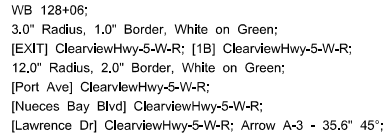
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STATE	STATE DIST. NO.	COUNTY	003
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181



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US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING

IH 37

LARGE SIGN FORMATS

**FLATIRON/Dragados LLC**

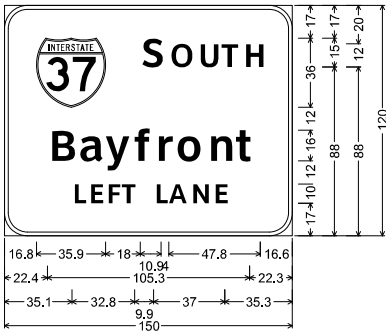
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6-772-2880

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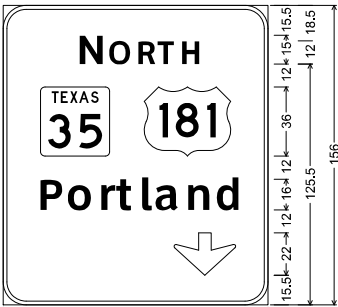


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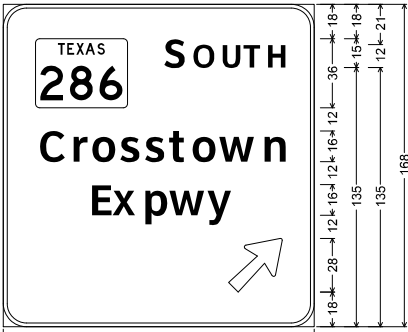
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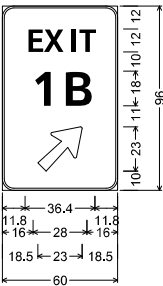
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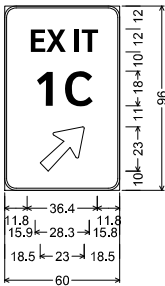
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[North Beach] ClearviewHwy-5-W-R;
Down Arrow 22 - 22.0" 270°;



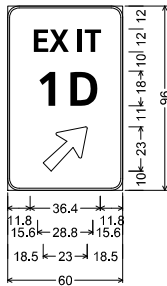
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[OUTH] ClearviewHwy-5-W-R;
[Crosstown] ClearviewHwy-5-W-R;
[Expwy] ClearviewHwy-5-W-R;
Arrow A-3 - 35.6" 45°;





VB 129+63;
6.0" Radius, 1.0" Border, White on Green;
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[1B] ClearviewHwy-5-W-R;
Arrow A-2 - 29.3" 45°;



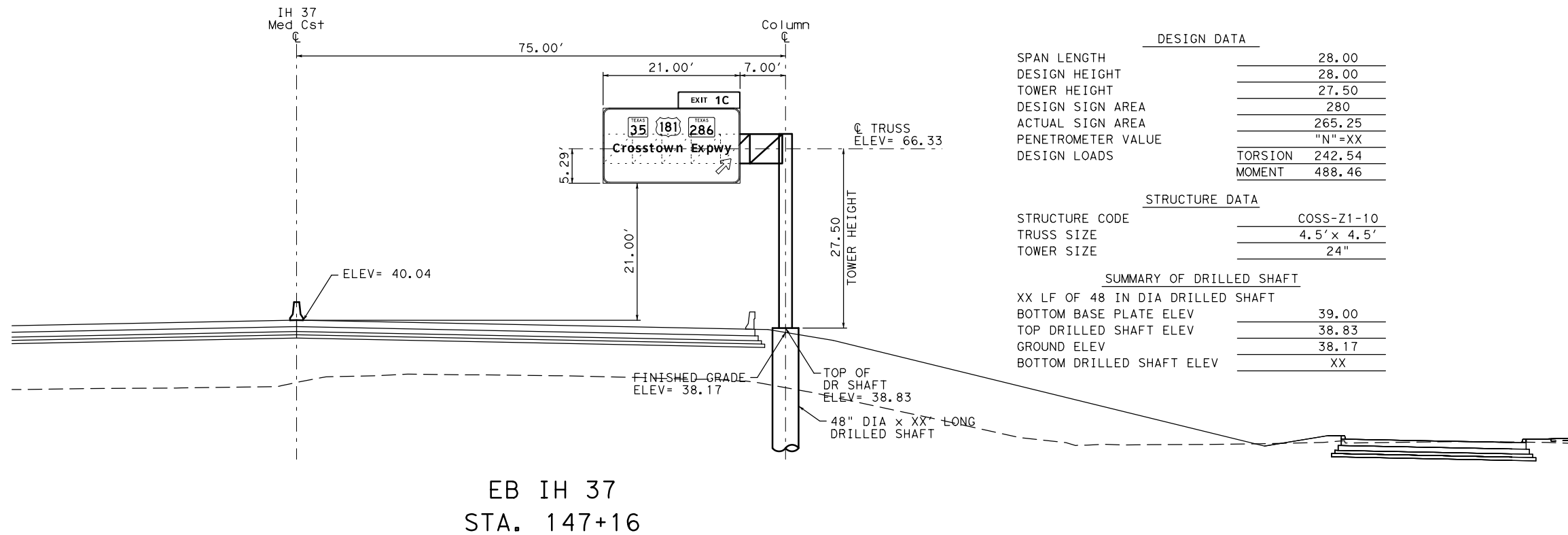
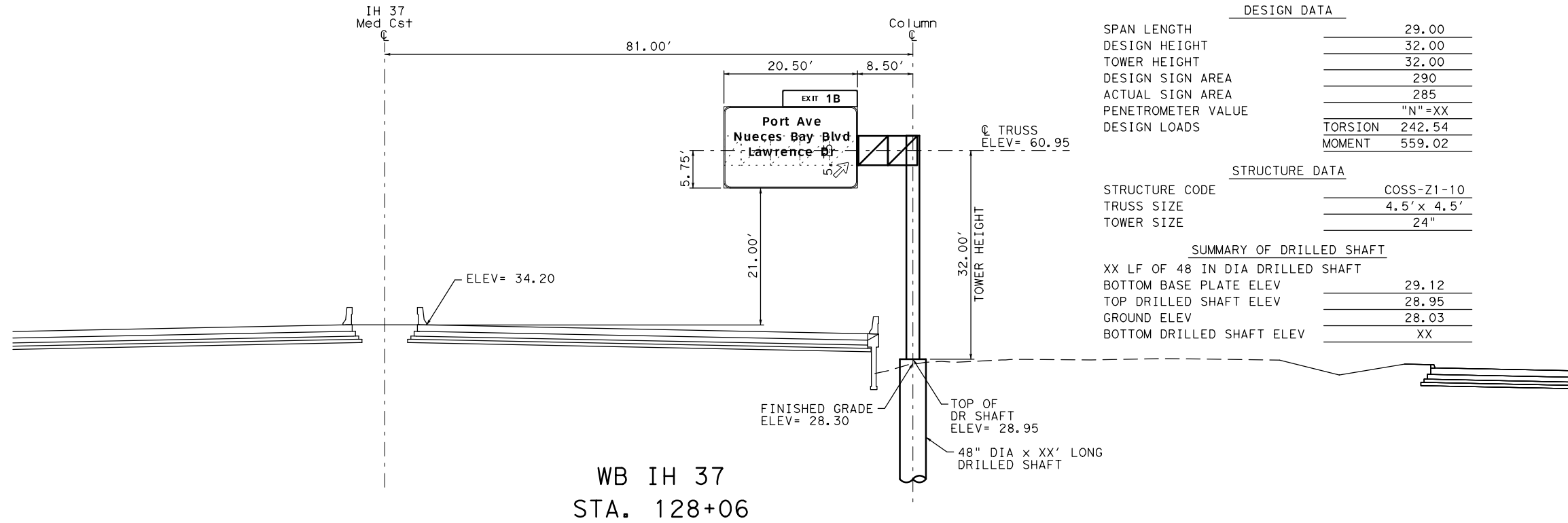
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Arrow A-2 - 29.3" 45°;



EB 155+27;
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[1D] ClearviewHwy-5-W-R;
Arrow A-2 - 29.3" 45°;

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US 181 HARBOR BRIDGE					
PAVEMENT MARKING & SIGNING					
IH 37 LARGE SIGN FORMATS					
 FLATIRON/DRAGADOS LLC					
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DP-003					
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FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.			SHEET NO.
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STATE		COUNTY		005	
TEXAS		NUECES			
CONT.		JOB		HIGHWAY NO.	
0101		095		US181	

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P.E. No. 115334
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US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING
IH 37 MAINLINE OVERHEAD SIGN STRUCTURE ELEVATIONS

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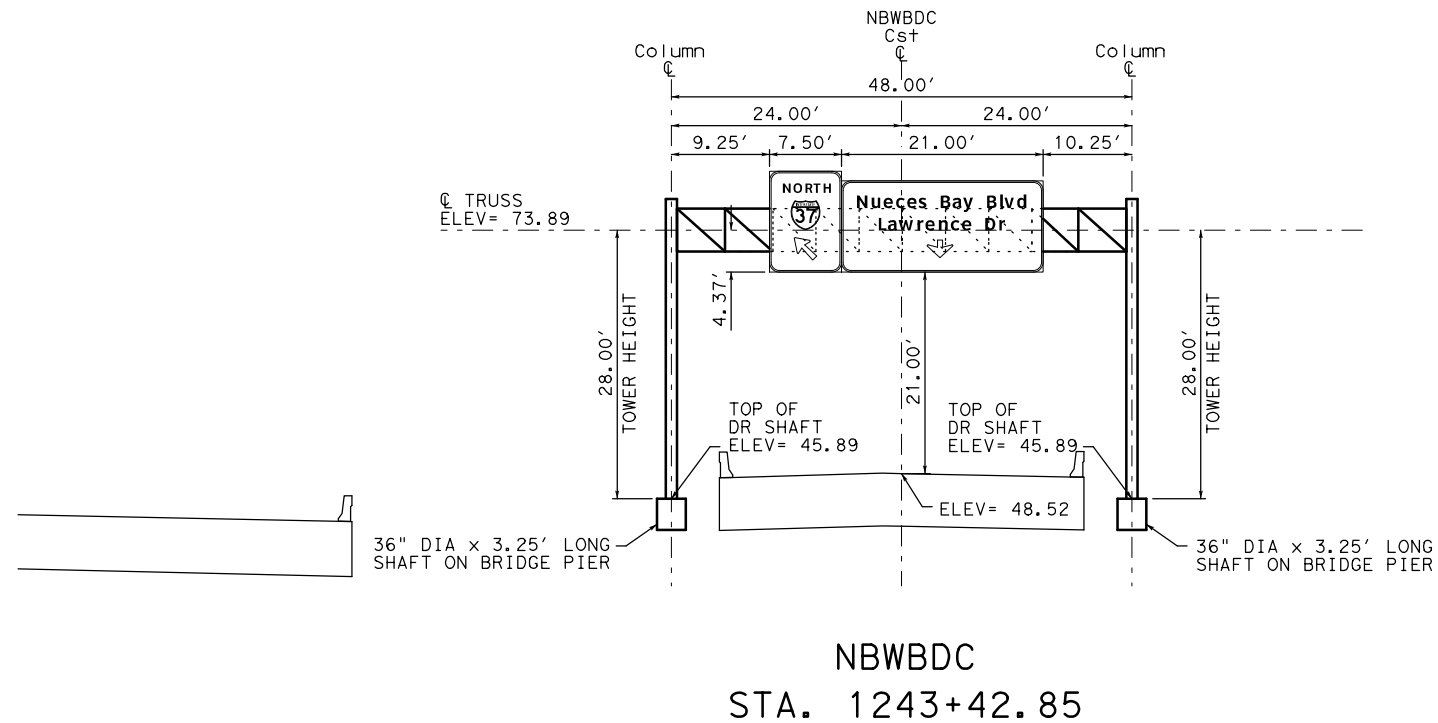
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STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181



	LEFT	RIGHT
BOTTOM BASE PLATE ELEV	<u>32.34</u>	<u>12.34</u>
TOP DRILLED SHAFT ELEV	<u>32.17</u>	<u>12.17</u>
GROUND ELEV	<u>31.25</u>	<u>9.55</u>
BOTTOM DRILLED SHAFT ELEV	X	X

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<i>Date:</i> <u>5/11/17</u>					
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DP-003					
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TEXAS	CRP	NUECES			
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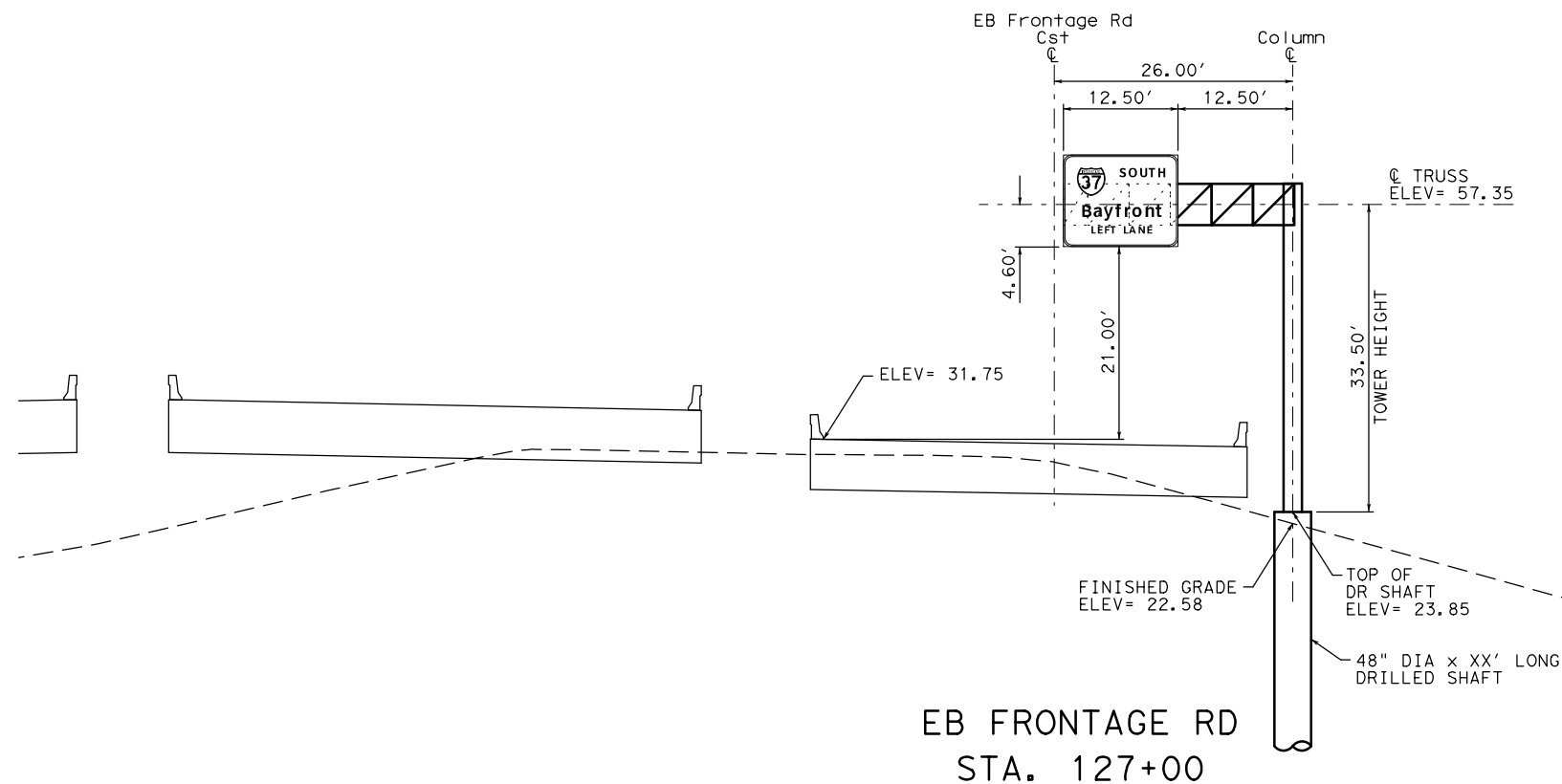


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SPAN LENGTH	48.00
DESIGN HEIGHT	28.00
TOWER HEIGHT, LEFT	28.00
TOWER HEIGHT, RIGHT	28.00
DESIGN SIGN AREA	360
ACTUAL SIGN AREA	278.25
PENETROMETER VALUE	"N"=XX
DESIGN LOADS	TORSION 12.87
	MOMENT 369

STRUCTURE DATA	
STRUCTURE CODE	OSB-Z1
TRUSS SIZE	4.5' x 4.5'
TOWER SIZE	W14 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	46.06	46.06
TOP DRILLED SHAFT ELEV	45.89	45.89
GROUND ELEV	n/a	n/a
BOTTOM DRILLED SHAFT ELEV	X	X



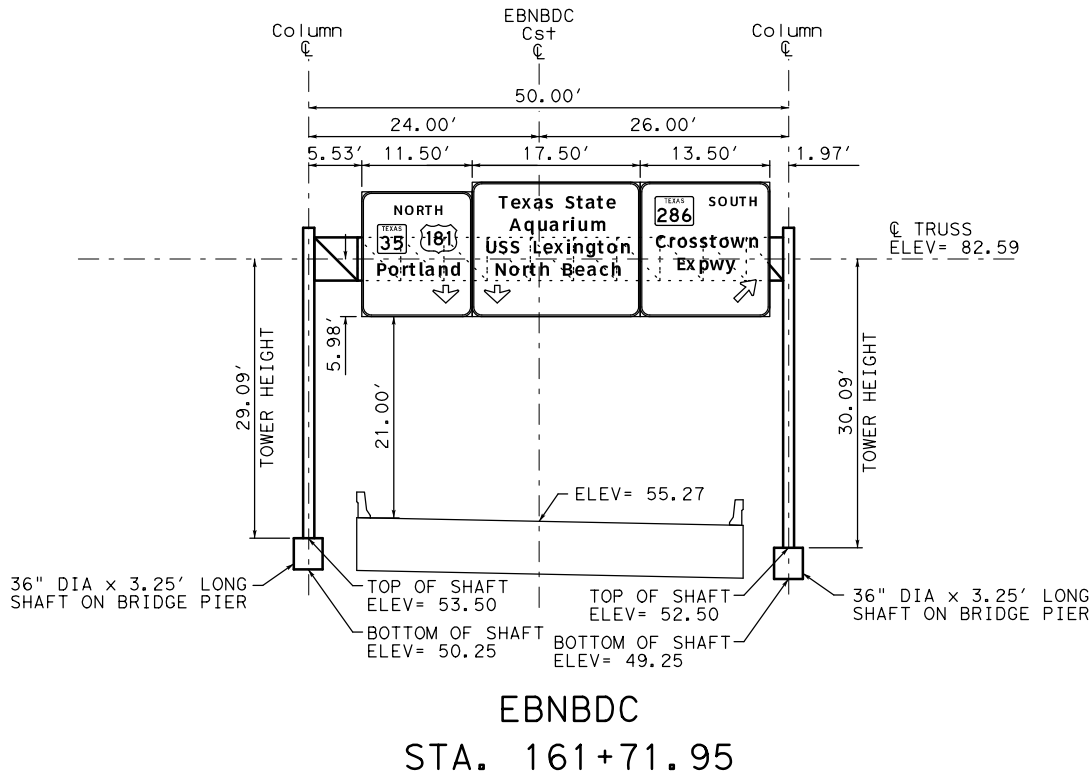
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DESIGN HEIGHT	34.00
TOWER HEIGHT	33.50
DESIGN SIGN AREA	250
ACTUAL SIGN AREA	125
PENETROMETER VALUE	"N"=XX
DESIGN LOADS	TORSION 173.89
	MOMENT 530.95

STRUCTURE DATA	
STRUCTURE CODE	HCOSS-Z1-10
TRUSS SIZE	4.5' x 4.5'
TOWER SIZE	24"

SUMMARY OF DRILLED SHAFT	
XX LF OF 54 IN DIA DRILLED SHAFT	
BOTTOM BASE PLATE ELEV	24.02
TOP DRILLED SHAFT ELEV	23.85
GROUND ELEV	22.58
BOTTOM DRILLED SHAFT ELEV	XX

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AZTEC			
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TEXAS	CRP	NUECES	
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0101	06	095	US181

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DESIGN DATA	
SPAN LENGTH	50.00
DESIGN HEIGHT	30.00
TOWER HEIGHT, LEFT	29.09
TOWER HEIGHT, RIGHT	30.09
DESIGN SIGN AREA	375
ACTUAL SIGN AREA	583.50
PENETROMETER VALUE	N/A
DESIGN LOADS	
TORSION	12.87
MOMENT	395

STRUCTURE DATA	
STRUCTURE CODE	OSB-Z1
TRUSS SIZE	4.5' x 4.5'
TOWER SIZE	W 14 x 30

SUMMARY OF DRILLED SHAFT
3.25 LF OF 36 IN DIA DRILLED SHAFT - LEFT TOWER
3.25 LF OF 36 IN DIA DRILLED SHAFT - RIGHT TOWER

	LEFT	RIGHT
BOTTOM BASE PLATE ELEV	53.67	52.67
TOP DRILLED SHAFT ELEV	53.50	52.50
GROUND ELEV	N/A	N/A
BOTTOM DRILLED SHAFT ELEV	50.25	49.25

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PAVEMENT MARKING & SIGNING 1H 37 FRONTAGE RD OVERHEAD SIGN STRUCTURE ELEVATIONS			
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DP-003			
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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-OSSE
STATE	STATE DIST. NO.	COUNTY	013
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

NO.		BY		DATE	
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<h1 style="margin: 0;">ADVANCED STATUS</h1>					
<h1 style="margin: 0;">NOT FOR CONSTRUCTION</h1>					
<h2 style="margin: 0;">US 181 HARBOR BRIDGE</h2>					
<h2 style="margin: 0;">PAVEMENT MARKING & SIGNING SUMMARY OF LARGE SIGNS NORTHBOUND US181/SH286 IH 37</h2>					
 <p style="margin: 0;">FLATIRON/DRAGADOS LLC</p>					
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p style="margin: 0;">AZTEC</p> </div> <div style="text-align: right;"> <p style="margin: 0; font-size: small;">2000 Bering Drive, Suite 702 Houston, Texas 77057 546-772-2860</p> </div> </div>					
DP-003					
 <p style="margin: 0;"><i>Texas Department of Transportation</i></p> <p style="margin: 0;">© 2016</p>					
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6		HP X597 (1)		STR-LOSS	
STATE	STATE DIST. NO.	COUNTY		<h1 style="margin: 0;">011</h1>	
TEXAS	CRP	NUECES			
CONT.	SECT	JOB		HIGHWAY NO.	
0101	06	095		US181	

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P.E. No., 115334

Date, 5/11/17

ADVANCED STATUS

N O T F O R C O N S T R U C T I O N

US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING

SUMMARY OF LARGE SIGNS

NORTHBOUND US181/SK286

IH 37

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6	HP X597 (1)			STR-LOSS
STATE	STATE DIST. NO.	COUNTY		
TEXAS	CRP	NUECES	012	
CONT.	SECT	JOB	HIGHWAY NO.	
0101	06	095	US181	

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ADVANCED STATUS			
NOT FOR CONSTRUCTION			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING SUMMARY OF LARGE SIGNS IH 37			
<div><div></div><div>FLATIRON/DRAGADOS LLC</div></div>			
<div><div></div><div>2000 Bering Drive, Suite 702 Houston, Texas 77057 546-772-2860</div></div>			
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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597 (1)		STR-LOSS
STATE	STATE DIST. NO.	COUNTY	013
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	
0101	06	095	HIGHWAY NO. US181

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Engineer, Steven Osburn

P.E. No., 115334


Date, 5/11/17

ADVANCED STATUS

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CONSTRUCTION


US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING
SUMMARY OF LARGE SIGNS
IH 37




FLATIRON/DRAGADOS LLC

AZTEC



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Houston, Texas 77057
546-177-2880

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













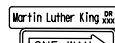



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6	HP X597(1)	STR-LOSS
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

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SUMMARY OF SMALL SIGNS - DIRECT CONNECT RAMPS & CROSS STREETS															
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				
											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	PREFABRICATED P = "Plain" T = "T" U = "U"	1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels
													TY N TY S		
STR-EWFR 004	590	STA 27+41 PORT AVE	ROUTE ASSEMBLY	(24" x 12") M3-1 (24" x 24") M1-1 (21" x 15") M6-3      	24" x 12" 24" x 24" 21" x 15"	X		10BWG	1	SA	U	EXAL			
STR-EWFR 004	591	STA 24+67 PORT AVE	R4-7 R3-7L	 	24" x 30" 36" x 36"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 004	592	STA 24+77 PORT AVE	ROUTE ASSEMBLY	    	24" x 12" 24" x 24" 21" x 15"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 004	593	STA 27+28 PORT AVE	R4-7 R3-7L	 	24" x 30" 36" x 36"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 004	594	STA 145+81 EBFR	R2-1		48" X 48" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	601	STA 1148+80 RAMP W-S	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	602	STA 1149+60 RAMP W-S	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	603	STA 1150+40 RAMP W-S	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	614	STA 1169+20 RAMP S-E	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	615	STA 1170+00 RAMP S-E	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	616	STA 1170+80 RAMP S-E	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	617	STA 1171+60 RAMP S-E	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-EWFR 003	595	STA 33+90 COKE ST	D3-1 (MARTIN LUTHER KING) R6-1R D3-1 (COKE) R1-1	   	D3-1 (MARTIN LUTHER KING) 54" X 18" D3-1 (COKE) 36" X 36"	X		10BWG	1	SA	T	EXAL			





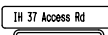








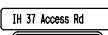







ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080"
7.5 to 15	0.100"
Greater than 15	0.125"

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

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 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

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Engineer: Steven Ogburn					
P.E. No. 115334					
Date: 5/11/17					
ADVANCED STATUS					
NOT FOR CONSTRUCTION					
US 181 HARBOR BRIDGE					
PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS					
IH37 DIRECT CONNECT RAMPS AND CROSS STREETS					
 FLATIRON/DRAGADOS LLC					
 AZTEC					
DP-003					
Texas Department of Transportation					
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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			029
CONT.	SECT	JOB			HIGHWAY NO.
0101	06	095			US181



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SUMMARY OF SMALL SIGNS - FRONTAGE ROADS														
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 1 or 2	ANCHOR TYPE UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	MOUNTING DESIGNATION		
								FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	PREFABRICATED P = "Plain" T = "T" U = "U"			1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels		
													TY N	TY S
STR-EWFR 006	322	STA 168+92 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 006	323	STA 168+56 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 006	324	STA 167+13 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 006	325	STA 167+64 EBFR	R4-7		24" X 30"	X		10BWG	1	SA	P	EXAL		
STR-EWFR 006	326	STA 167+32 EBFR	D3-1 (IH37 ACCESS RD) R6-1R R1-1	  	D3-1 (IH37 ACCESS RD) 54" X 18" 36" X 36"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 006	327	STA 13+36 PALM DR	W1-1R		36" X 36"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 006	328	STA 11+67 BUFFALO ST	W1-1R		36" X 36"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 006	329	STA 164+57 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 006	330	STA 162+79 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 006	331	STA 5+39 CONNECTOR	R1-1		30" X 30"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 006	332	STA 160+57 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 006	333	STA 160+49 EBFR	D3-1 (IH37 ACCESS RD) R6-1R R1-1	  	D3-1 (IH37 ACCESS RD) 54" X 18" 36" X 36"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 006	334	STA 12+17 ANTELOPE ST	W11-15		30" X 30"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 005	335	STA 159+97 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 005	336	STA 158+67 EBFR 38' LT	W11-15 W16-7pL	 	30" X 30" 24" X 12"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 005	337	STA 158+47 EBFR 36' LT	R1-1		30" X 30"	X		10BWG	1	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"

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ADVANCED STATUS								
NOT FOR CONSTRUCTION								
US 181 HARBOR BRIDGE								
PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS IH 37 - FRONTAGE ROADS								
 FLATIRON/DRAGADOS LLC								
 2000 Berling Drive, Suite 102 Houston, Texas 77057 713-772-2880 DP-003								
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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.					SHEET NO.		
6	HP X597(1)					STR-SOSS IH37 EWFF		
STATE	STATE DIST. NO.		COUNTY		033			
TEXAS	CRP		NUECES		JOB			
CONT.	SECT		JOB		HIGHWAY NO.			
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SUMMARY OF SMALL SIGNS - FRONTAGE ROADS													
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	
													FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80
STR-EWFR 005		STA 158+13 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005		STA 157+93 EBFR 33' LT	D3-1 (ANTELOPE) R6-1R D3-1 (PEABODY) R1-1	 	D3-1 (ANTELOPE) 54" X 18" D3-1 (PEABODY) 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 157+80 EBFR	R1-2		36" X 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 157+24 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005		STA 156+48 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005		STA 155+75 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005		STA 153+29 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005		STA 153+18 EBFR	D3-1 (ANTELOPE) D3-1 (KENNEDY) R6-1R R1-1	 	D3-1 (ANTELOPE) D3-1 (KENNEDY) 54" X 18" 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 152+36 EBFR	R5-1A W4-3L	 	42" X 30" 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 152+27 EBFR	R5-1A		42" X 30"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 151+66 PORT AVE OFF RAMP	R4-3bT		36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 151+60 PORT AVE OFF RAMP	R5-1 R4-3bT	 	48" X 48" 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 150+40 EBFR	R1-2 R1-2bTP	 	48" x 48" x 48" 21" x 15"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005		STA 149+18 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	

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"

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NO.		BY	DATE

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Engineer: Steven Ogburn
P.E. No. 115334
Date: 5/11/17

ADVANCED STATUS

NOT FOR CONSTRUCTION

US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS

IH 37 - FRONTAGE ROADS

FLATIRON/DRAGADOS LLC

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

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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597(1)	STR-SOSS IH37 EWFF
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181















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3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD (GEN).

 FLATIRON/DRAGADOS LLC		
	2000 Bering Drive, Suite 102 Houston, Texas 77057 546-172-2860	
DP-003		
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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597 (1)	STR-SOSS IH37 EWR
STATE	STATE DIST. NO.	<div style="font-size: 2em; font-weight: bold;">035</div>
TEXAS	CRP	
COUNTY	NUECES	
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

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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	
													FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80
STR-137 008	287	STA 170+80 EB IH37	W4-3R		48" X 48"	X		10BWG	1	SA	T	EXAL	
STR-137 008	286	STA 166+40 EB IH37	W4-1aTL		48" X 48"	X		10BWG	1	SA	T	EXAL	
STR-137 007	285	STA 155+27 EB IH37	GUIDE		60" X 96"	X		S80	2	SA	T	EXAL	
STR-137 007	284	STA 153+40 EB IH37	D10-1		12" X 24"	X		10BWG	1	SA	P	EXAL	
STR-137 007	283	STA 150+00 EB IH37	R2-1 (55)		48" X 60"	X		10BWG	1	SA	T	EXAL	
STR-137 006	282	STA 144+61 EB IH37	GUIDE		60" X 96"	X		S80	2	SA	T	EXAL	
STR-137 006	281	STA 140+60 EB IH37	M3-3 M1-1		36" X 18" 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-137 006	280	STA 134+90 EB IH37	W8-13aT		48" X 48"	X		10BWG	1	SA	T	EXAL	
STR-137 005	279	STA 123+00 EB IH37	W4-1R		48" X 48"	X		10BWG	1	SA	T	EXAL	
STR-137 005	201	STA 129+63 WB IH37	GUIDE		60" X 96"	X		S80	2	SA	T	EXAL	
STR-137 006	202	STA 121+00 WB IH37	M3-3 M1-1		48" X 18" 48" X 48"	X		10BWG	1	SA	T	EXAL	
STR-137 007	203	STA 1247+85 NBWBDC	R5-1A E5-1		42" X 30" 72" X 60"	X		10BWG	2	SA	T	EXAL	
STR-137 007	204	STA 148+50 WB IH37	W4-1R		48" X 48"	X		10BWG	1	SA	T	EXAL	
STR-137 007	205	STA 153+40 WB IH37	D10-1		12" X 24"	X		10BWG	1	SA	P	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/>

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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.
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 3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).


NO.		BY	DATE


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Engineer: Steven Ogburn
P.E. No. 115334
Date: 5/11/17

ADVANCED STATUS
NOT FOR CONSTRUCTION
US 181 HARBOR BRIDGE


PAVEMENT MARKING & SIGNING
SUMMARY OF SMALL SIGNS

IH 37 MAINLINE


FLATIRON/DRAGADOS LLC


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

DP-003


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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597(1)	STR-SOSS IH37_ML
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

SUMMARY OF SMALL SIGNS - MAINLINE									
-----------------------------------	--	--	--	--	--	--	--	--	--

[illegible]

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080"
7.5 to 15	0.100"
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OR UNDER THE SUPERVISION OF:

Engineer: Steven Ogburn
P.E. No.: 115334
Date: 5/11/17

ADVANCED STATUS

**NOT FOR
CONSTRUCTION**

US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING

SUMMARY OF SMALL SIGNS

H 37 MAINLINE

**FLATIRON/Dragados LLC**

00 Bering Drive, Suite 702
Houston, Texas 77057
6-772-2880

DP-003


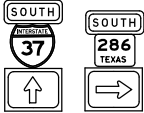












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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-SSSS IH37_ML
STATE	STATE DIST. NO.	COUNTY	042
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	
0101	06	095	HIGHWAY NO. US181

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SUMMARY OF SMALL SIGNS - FRONTAGE ROADS															
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				
											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	PREFABRICATED P = "Plain" T = "T" U = "U"
													TY = TYPE		
STR-EWFR 003	428	STA 123+40, RT WBFR	ROUTE ASSEMBLY	(24" X 12") M4-5 (24" X 24") M1-1 (21" X 15") M6-3 	M3-3 (24" X 12") M1-6T (24" X 24") M6-1 (21" X 15")	24" X 12" 24" X 24" 21" X 15"	X		10BWG	1	SA	U	EXAL		
STR-EWFR 003	429	STA 123+40, RT WBFR	ROUTE ASSEMBLY	(24" X 12") M3-3 (24" X 24") M1-1 (21" X 15") M6-3 	M3-3 (24" X 12") M1-6T (24" X 24") M6-1 (21" X 15")	24" X 12" 24" X 24" 21" X 15"	X		10BWG	1	SA	U	EXAL		
STR-EWFR 003	430	STA 123+84 WBFR	R3-7R			36" X 36"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 003	431	STA 125+11 WBFR	ROUTE ASSEMBLY		M3-3 M1-6T M6-1	24" X 12" 24" X 24" 21" X 15"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 003	432	STA 126+74, RT RAMP W-S	R5-1A			42" X 30"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 003	433	STA 126+74, LT RAMP W-S	R5-1A E5-1bT			42" X 30" 72" X 60"	X		S80	2	SA	T	EXAL		
STR-EWFR 003	434	STA 127+24, RT WBFR	ROUTE ASSEMBLY		M3-1 M1-1 M6-3	24" X 12" 24" X 24" 21" X 15"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 003	435	STA 127+30, LT WBFR	ROUTE ASSEMBLY		M3-1 M1-1 M6-3	24" X 12" 24" X 24" 21" X 15"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 003	436	STA 130+60 WBFR	R6-1R			54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 003	437	STA 131+71 WBFR	R6-1R			54" X 18"	X		10BWG	1	SA	P	BM		
STR-EWFR 003	438	STA 132+50, RT WBFR	R5-1A			42" X 30"	X		10BWG	1	SA	T	EXAL		
STR-EWFR 003	439	STA 132+50, LT WBFR	R5-1A W4-3L			42" X 30" 48" X 48"	X		10BWG	1	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.
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NO.		BY	DATE


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Engineer: Steven Ogburn
P.E. No. 115334
Date: 5/11/17

ADVANCED STATUS
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US 181 HARBOR BRIDGE


PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS
IH 37 FRONTAGE ROADS



FLATIRON DRAGADOS LLC



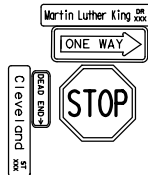



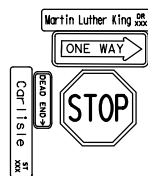









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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597 (1)		STR-SOSS IH37 EWFR
STATE	STATE DIST. NO.	COUNTY	
TEXAS	CRP	NUECES	043
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181



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SUMMARY OF SMALL SIGNS - FRONTAGE ROADS													
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	
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"			
STR-EWFR 003	440	STA 133+20 WBFR	D3-1 (MARTIN LUTHER KING) R6-1R D3-1 (CLEVELAND) W14-1a R1-1		D3-1 (MARTIN LUTHER KING) 54" X 18" D3-1 (CLEVELAND) 36" X 8" 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	441	STA 134+08 WBFR	R4-3bT		36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	442	STA 134+14 WBFR	R5-1 R4-3bT		36" X 36" 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	443	STA 135+50 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 004	444	STA 135+67 WBFR	D3-1 (MARTIN LUTHER KING) R6-1R D3-1 (CARLISLE) W14-1a R1-1		D3-1 (MARTIN LUTHER KING) 54" X 18" D3-1 (CARLISLE) 36" X 8" 36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	445	STA 136+24 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 004	446	STA 137+24, RT WBFR	R2-1 (35)		30" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	447	STA 137+24, LT WBFR	R2-1 (35)		30" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	448	STA 137+06, LT WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 004	449	STA 137+40, RT WBFR	R3-8VAR		48" X 30"	X		S80	2	SA	T	EXAL	
STR-EWFR 004	450	STA 137+40, LT WBFR	R3-8VAR		48" X 30"	X		S80	2	SA	T	EXAL	
STR-EWFR 004	451	STA 138+60 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 004	452	STA 139+30 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 004	453	STA 140+50, RT WBFR	R5-1A		42" X 30"	X		10BWG	1	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"

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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: 5/11/17								
ADVANCED STATUS								
NOT FOR CONSTRUCTION								
US 181 HARBOR BRIDGE								
PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS								
IH 37 FRONTAGE ROADS								
 FLATIRON/DRAGADOS LLC								
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FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.					SHEET NO.	
6		HP X597 (1)					STR-SOSS IH37 EWFR	
STATE		STATE DIST. NO.		COUNTY		TEXAS CRP NUECES		
CONT.		SECT		JOB		HIGHWAY NO.		
0101		06		095		US181		

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SUMMARY OF SMALL SIGNS - FRONTAGE ROADS													
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-EWFR 004	454	STA 140+50, LT WBFR	R5-1A		42" X 30"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	455	STA 140+15 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 004	456	STA 141+18 WBFR	D13-1TL		66" X 24"	X		S80	2	SA	T	EXAL	
STR-EWFR 004	457	STA 145+54 WBFR	R5-1		36" X 36"	X		10BWG	1	SA	T	EXAL	
			R1-1		36" X 36"								
			W4-4P		36" X 18"								
STR-EWFR 004	458	STA 141+33 WBFR	R6-1L		54" X 18"	X		10BWG	1	SA	T	EXAL	
			R6-1R		54" X 18"								
STR-EWFR 004	459	STA 142+90 WBFR	R6-1L		54" X 18"	X		10BWG	1	SA	T	EXAL	
			R6-1R		54" X 18"								
STR-EWFR 004	460	STA 144+33 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 004	461	STA 143+83, RT WBFR	R2-1 (35)		30" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	462	STA 143+83, LT WBFR	R2-1 (35)		30" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 004	463	STA 144+36 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005	464	STA 145+85 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005	465	STA 147+04 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005	466	STA 148+47 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005	467	STA 150+00 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005	468	STA 151+00 WBFR	R5-1A		42" X 30"	X		10BWG	1	SA	T	EXAL	
			W4-3R		36" X 36"								
STR-EWFR 005	469	STA 153+17 WBFR	R4-3dT		36" X 36"	X		10BWG	1	SA	T	EXAL	

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080"
7.5 to 15	0.100"
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Engineer: Steven Ogburn
P.E. No. 115334
Date: 5/11/17

ADVANCED STATUS
NOT FOR CONSTRUCTION
US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS
IH 37 FRONTAGE ROADS

















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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597 (1)	STR-SOSS IH37 EWFR
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181



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SUMMARY OF SMALL SIGNS - FRONTAGE ROADS													
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	
													FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80
STR-EWFR 005	470	STA 153+23 WBFR	R5-1 R4-3bT		42" X 30" 36" X 36"	X		10BWG	1	SA	T	EXAL	TY = TYPE TY N TY S
STR-EWFR 005	471	STA 154+00 WBFR	R1-2 R1-2bTP		48" x 48" x 48" 21" x 15"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005	472	STA 155+04 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005	473	STA 156+30 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 005	474	STA 156+49, RT WBFR	R2-1 (35)		30" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 005	475	STA 156+49, LT WBFR	R2-1 (35)		30" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 006	476	STA 158+48 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 006	477	STA 160+00 WBFR	W4-1aR		36" X 36"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 006	478	STA 161+77 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 006	479	STA 162+77 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 006	480	STA 163+28 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 006	481	STA 163+91 WBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 006	482	STA 166+08, LT WBFR	ROUTE ASSEMBLY	 M3-1 M1-1 M6-2 LEFT	24" X 12" 24" X 24" 21" X 15"	X		10BWG	1	SA	T	EXAL	
STR-EWFR 006	483	STA 167+31 EWBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 006	484	STA 168+58 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	
STR-EWFR 006	485	STA 170+82 EBFR	R6-1R		54" X 18"	X		10BWG	1	SA	P	BM	









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/>

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 - 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).

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ADVANCED STATUS		
NOT FOR CONSTRUCTION		
US 181 HARBOR BRIDGE		
PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS		
IH 37 FRONTAGE ROADS		
 FLATIRON/DRAGADOS LLC		
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DP-003		
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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	HP X597(1)	STR-SOSS IH37 EWFR
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

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SUMMARY OF SMALL SIGNS - DIRECT CONNECT RAMPS & CROSS STREETS												
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 1 or 2	ANCHOR TYPE UA=Universal Conc UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS=Wedge Steel WP=Wedge Plastic	MOUNTING DESIGNATION	
							FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80				PREFABRICATED P = "Plain" T = "T" U = "U"	1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels
STR-137 005	735	STA 176+60 EBNBDC	W1-8L		36" X 48"	X	10BWG	1	SA	T	EXAL	
STR-137 005	736	STA 168+60 EBNBDC	W1-8L		36" X 48"	X	10BWG	1	SA	T	EXAL	
STR-137 005	737	STA 170+20 EBNBDC	W1-8L		36" X 48"	X	10BWG	1	SA	T	EXAL	
STR-137 005	738	STA 171+80 EBNBDC	W1-8L		36" X 48"	X	10BWG	1	SA	T	EXAL	
STR-137 005	739	STA 173+40 EBNBDC	W1-8L		36" X 48"	X	10BWG	1	SA	T	EXAL	
STR-137 005	740	STA 175+00 EBNBDC	W1-8L		36" X 48"	X	10BWG	1	SA	T	EXAL	
STR-137 006	745	STA 241+68 EBSBDC	W1-8R		36" X 48"	X	10BWG	1	SA	T	EXAL	
STR-137 006	744	STA 159+00 EBNBDC	W8-13aT		48" x 48"	X	10BWG		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"

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Engineer: Steven Ogburn
P.E. No. 115334
Date: 5/11/17

ADVANCED STATUS
NOT FOR CONSTRUCTION
US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING
SUMMARY OF SMALL SIGNS
IH37 DIRECT CONNECT RAMPS
AND CROSS STREETS


FLATIRON DRAGADOS LLC


















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STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
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		US181

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SUMMARY OF SMALL SIGNS - DIRECT CONNECT RAMPS & CROSS STREETS														
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		
								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		PREFABRICATED P = "Plain" T = "T" U = "U"
													TY = TYPE	
STR-EWFR 004	596	STA 136+05 EBFR	W14-1		36" X 36"	X		10BWG	1	SA	T	EXAL		
STR-137 005	705	STA 1159+40 SBWBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	706	STA 1161+00 SBWBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	707	STA 1162+60 SBWBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	708	STA 1164+20 SBWBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	709	STA 1165+60 SBWBDC	W4-1R		48" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	710	STA 1231+40 NBWBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	711	STA 1229+80 NBWBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	712	STA 1228+20 NBWBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	713	STA 1226+60 NBWBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	727	STA 243+30 EBSBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	728	STA 244+90 EBSBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	729	STA 246+50 EBSBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL		
STR-137 005	734	STA 166+00 EBSBDC	W1-2L		36" X 36"	X		10BWG	1	SA	T	EXAL		
			W13-1P		30" X 30"									
STR-137 005	735	STA 176+60 EBNBDC	W1-8L		36" X 48"	X		10BWG	1	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"

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 - For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD (GEN).

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Engineer: Steven Ogburn

P.E. No. 115334

Date: 5/11/17

ADVANCED STATUS

NOT FOR CONSTRUCTION

US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING SUMMARY OF SMALL SIGNS

IH37 DIRECT CONNECT RAMPS AND CROSS STREETS



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6	HP X597 (1)	STR-SOSS DC&XSTR
STATE	STATE DIST. NO.	COUNTY
TEXAS	CRP	NUECES
CONT.	SECT	JOB
0101	06	095
		HIGHWAY NO.
		US181

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SUMMARY OF SMALL SIGNS - DIRECT CONNECT RAMPS & CROSS STREETS															
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			
								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		PREFABRICATED	1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1.12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels
														P = "Plain" T = "T" U = "U"	
STR-137 005	736	STA 168+60 EBNBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-137 005	737	STA 170+20 EBNBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-137 005	738	STA 171+80 EBNBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-137 005	739	STA 173+40 EBNBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-137 005	740	STA 175+00 EBNBDC	W1-8L		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-137 006	745	STA 241+68 EBSBDC	W1-8R		36" X 48"	X		10BWG	1	SA	T	EXAL			
STR-137 006	744	STA 159+00 EBNBDC	W8-13aT		48" x 48"	X		10BWG		SA	T	EXAL			

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
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Engineer, Steven Ogburn
P.E. No. 115334
Date, 5/11/17

ADVANCED STATUS
NOT FOR CONSTRUCTION
US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING
SUMMARY OF SMALL SIGNS
IH37 DIRECT CONNECT RAMPS
AND CROSS STREETS



FLATIRON DRAGADOS LLC



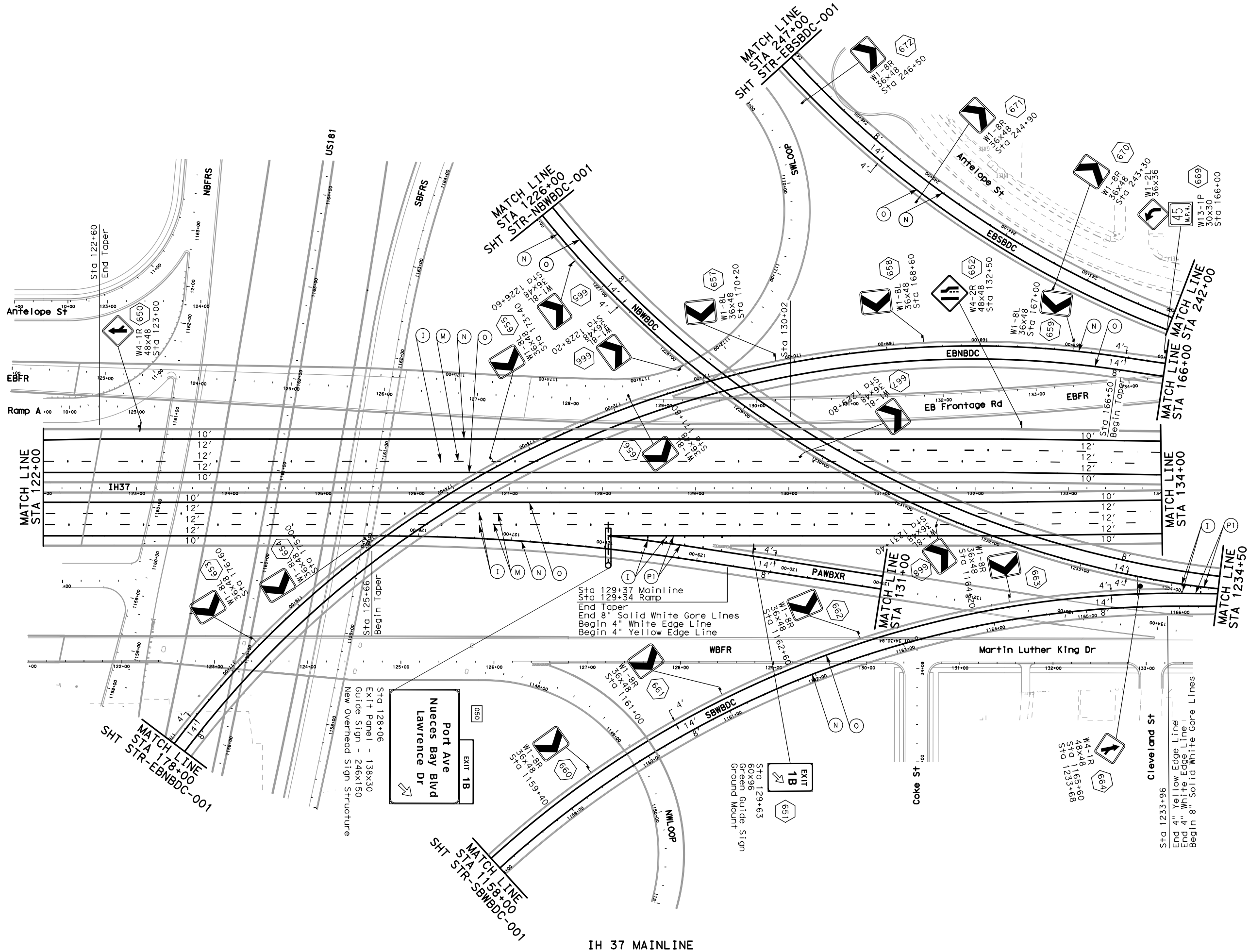
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STATE	STATE DIST. NO.	COUNTY	059
TEXAS	CRP	NUECES	
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Engineer: Steven Ogburn
P.E. No. 115334
Date: 5/11/17

ADVANCED STATUS

NOT FOR CONSTRUCTION
US 181 HARBOR BRIDGE

PAVEMENT MARKING & SIGNING
IH 37 MAINLINE
STA. 122+00 - STA. 134+00

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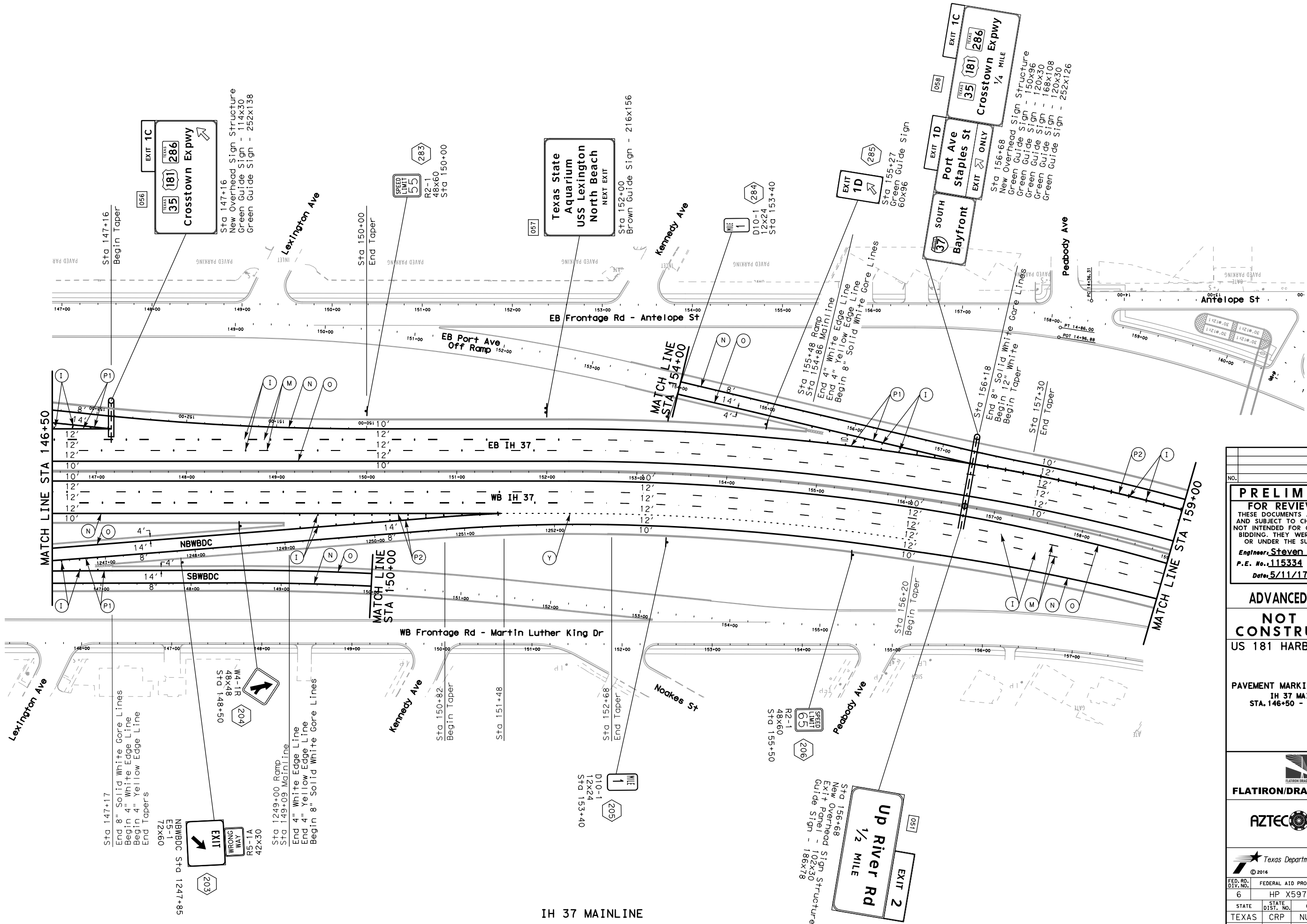
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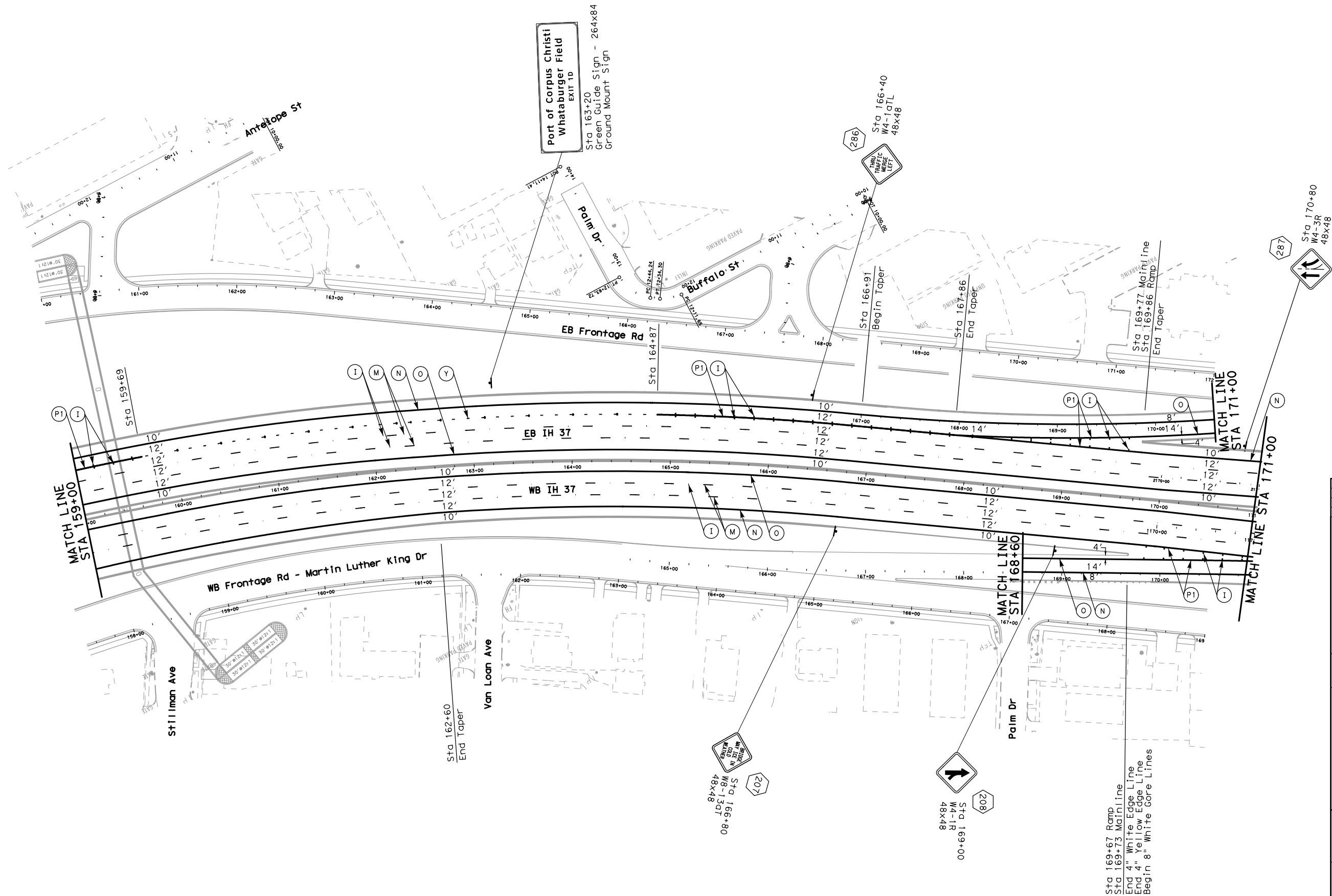
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ADVANCED STATUS			
NOT FOR CONSTRUCTION			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING IH 37 MAINLINE STA. 146+50 - STA. 159+00			
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6	HP X597(1)		STR-137
STATE	STATE DIST. NO.	COUNTY	007
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

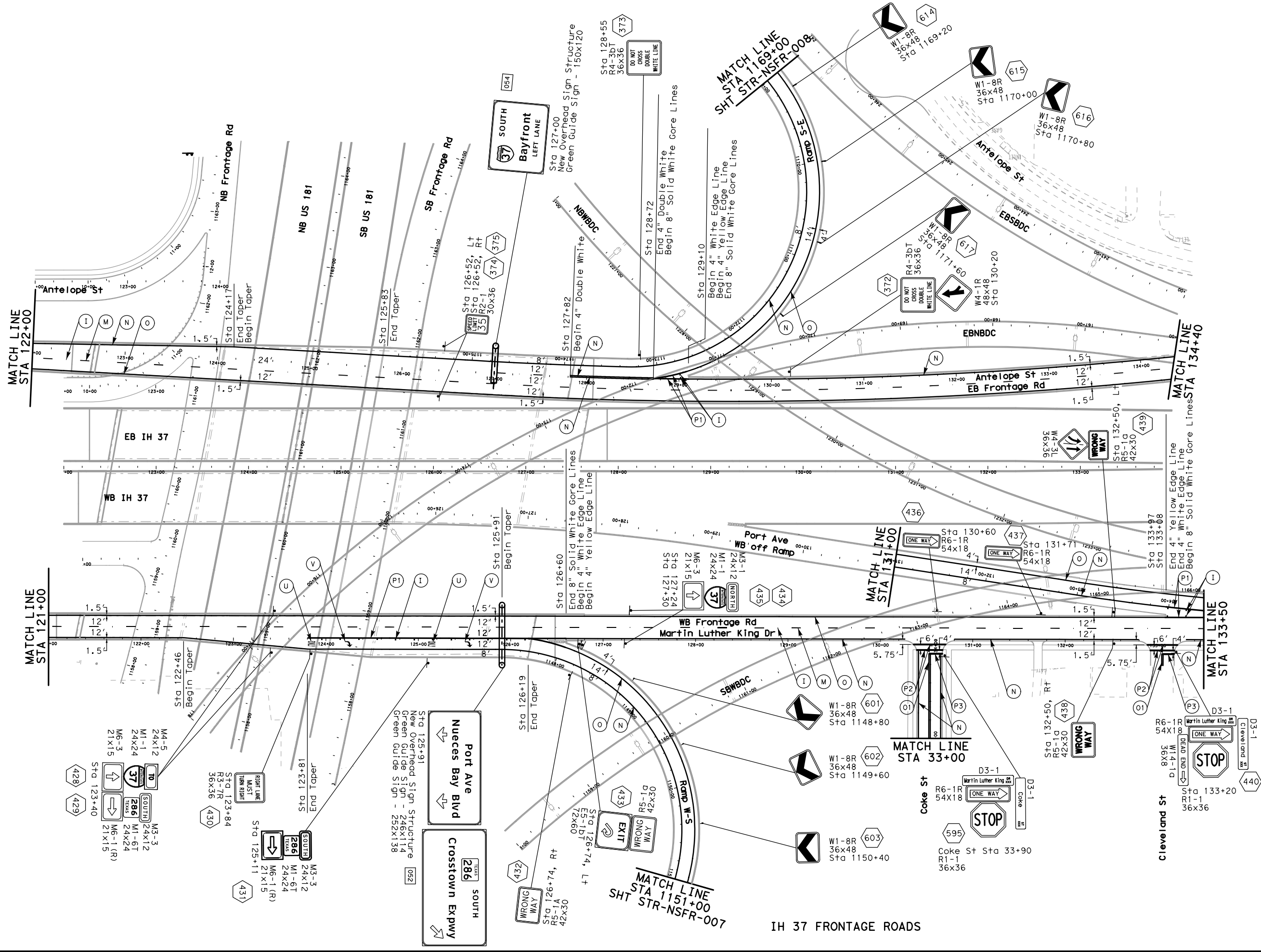
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IH 37 MAINLINE

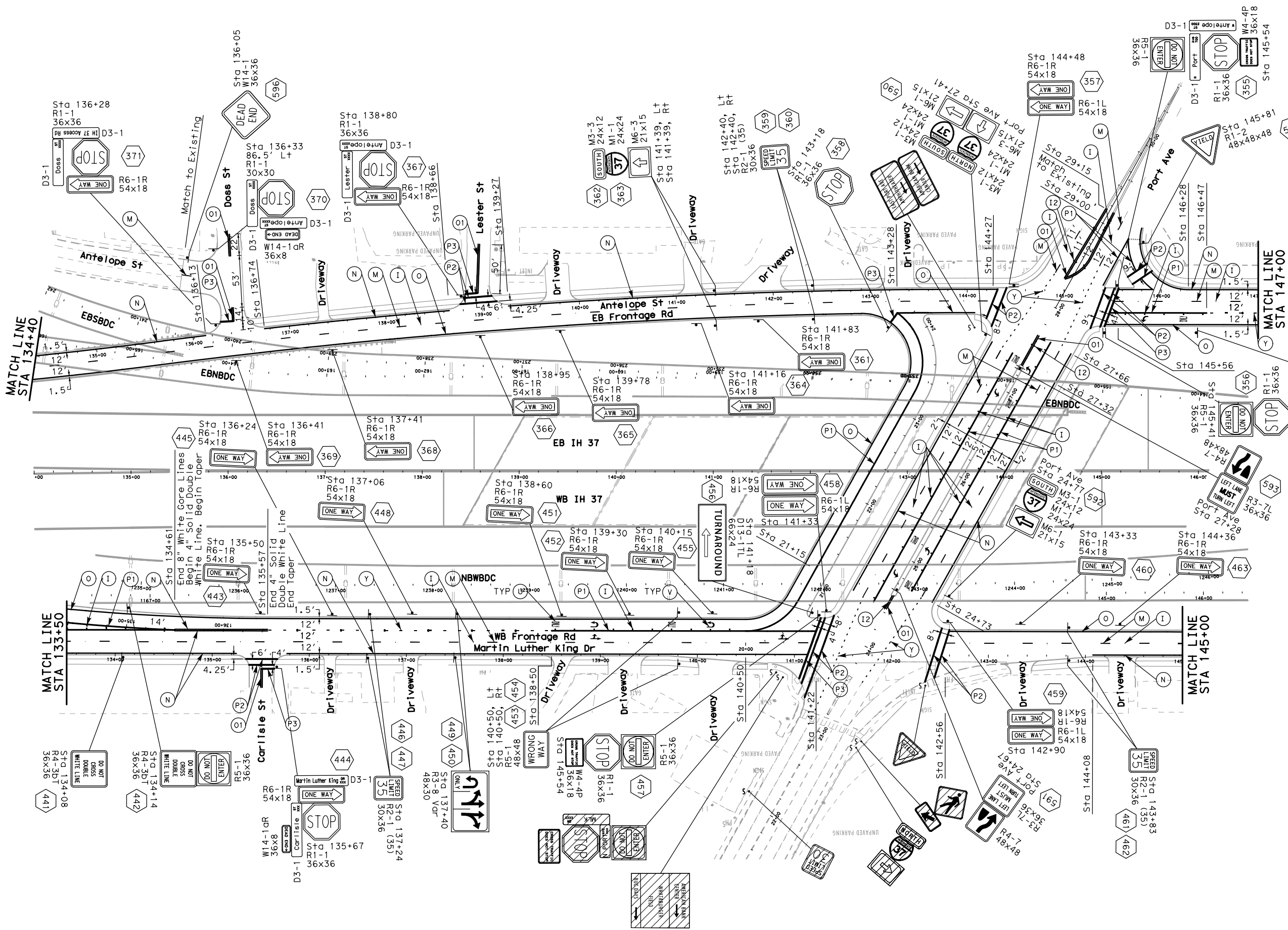
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ADVANCED STATUS NOT FOR CONSTRUCTION US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING IH 37 MAINLINE STA. 159+00 - STA. 171+00			
 FLATIRON/Dragados LLC			
 AZTEC			
 Texas Department of Transportation			
DP-003			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-137
STATE	STATE DIST. NO.	COUNTY	008
TEXAS	CRP	NUECES	
CONT.	SECT	JOB	HIGHWAY NO.
0101	06	095	US181

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ADVANCED STATUS NOT FOR CONSTRUCTION US 181 HARBOR BRIDGE					
PAVEMENT MARKING & SIGNING IH 37 FRONTAGE ROADS EB STA. 122+00 - STA. 134+40 WB STA. 121+00 - STA. 133+50					
 FLATIRON/Dragados LLC					
 AZTEC 2000 Berling Drive, Suite 102 Houston, Texas 77057 713-772-2880					
Texas Department of Transportation © 2016 DP-003					
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.		
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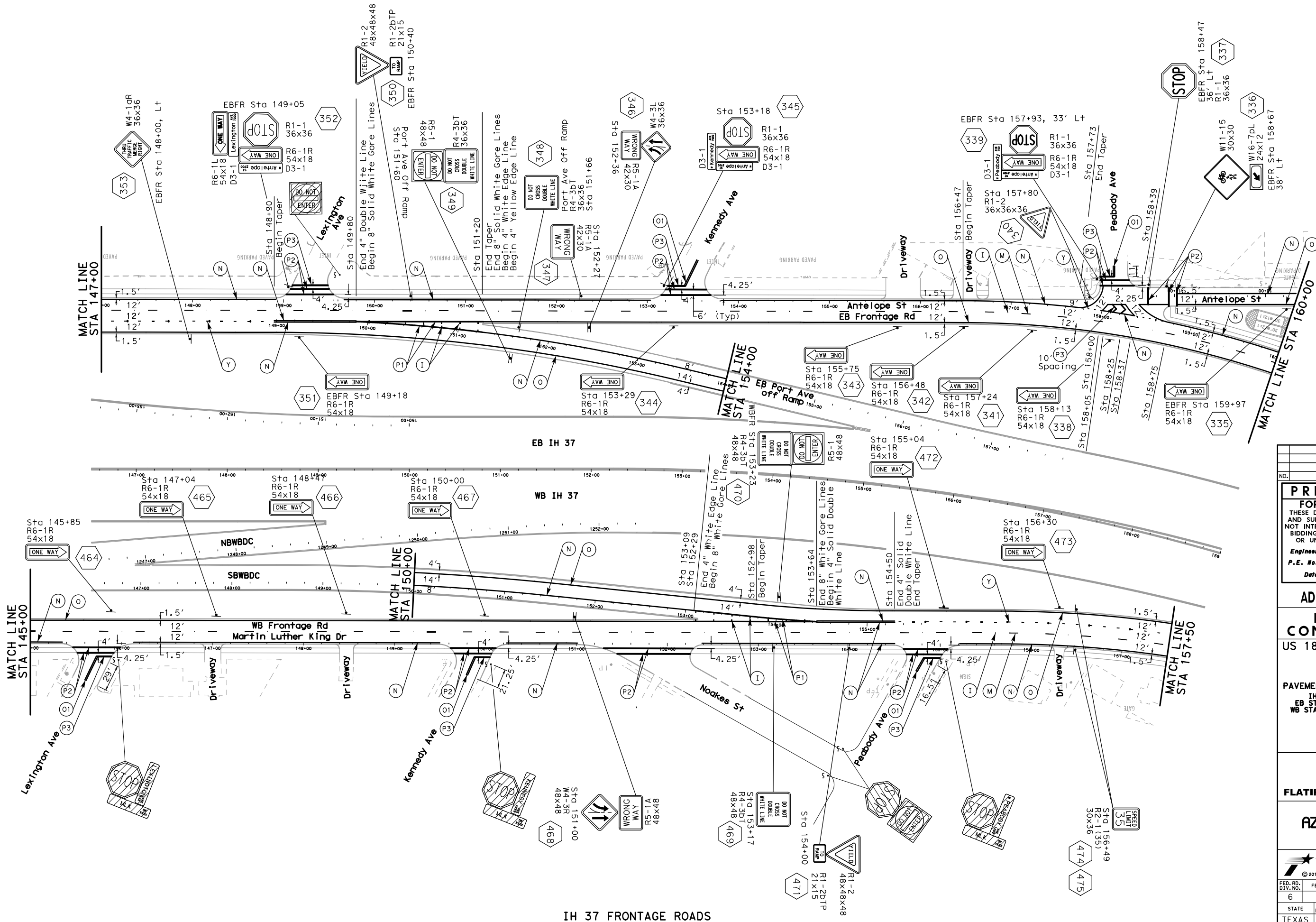
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IH 37 FRONTAGE ROADS

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ADVANCED STATUS			
NOT FOR CONSTRUCTION			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING IH 37 FRONTAGE ROADS EB STA. 134+40 - STA. 147+00 WB STA. 133+50 - STA. 145+00			
 FLATIRON/Dragados LLC			
 AZTEC 2000 Berling Drive, Suite 102 Houston, Texas 77057 713-772-2880			
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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
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TEXAS	CRP	NUECES	
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0101	06	095	US181

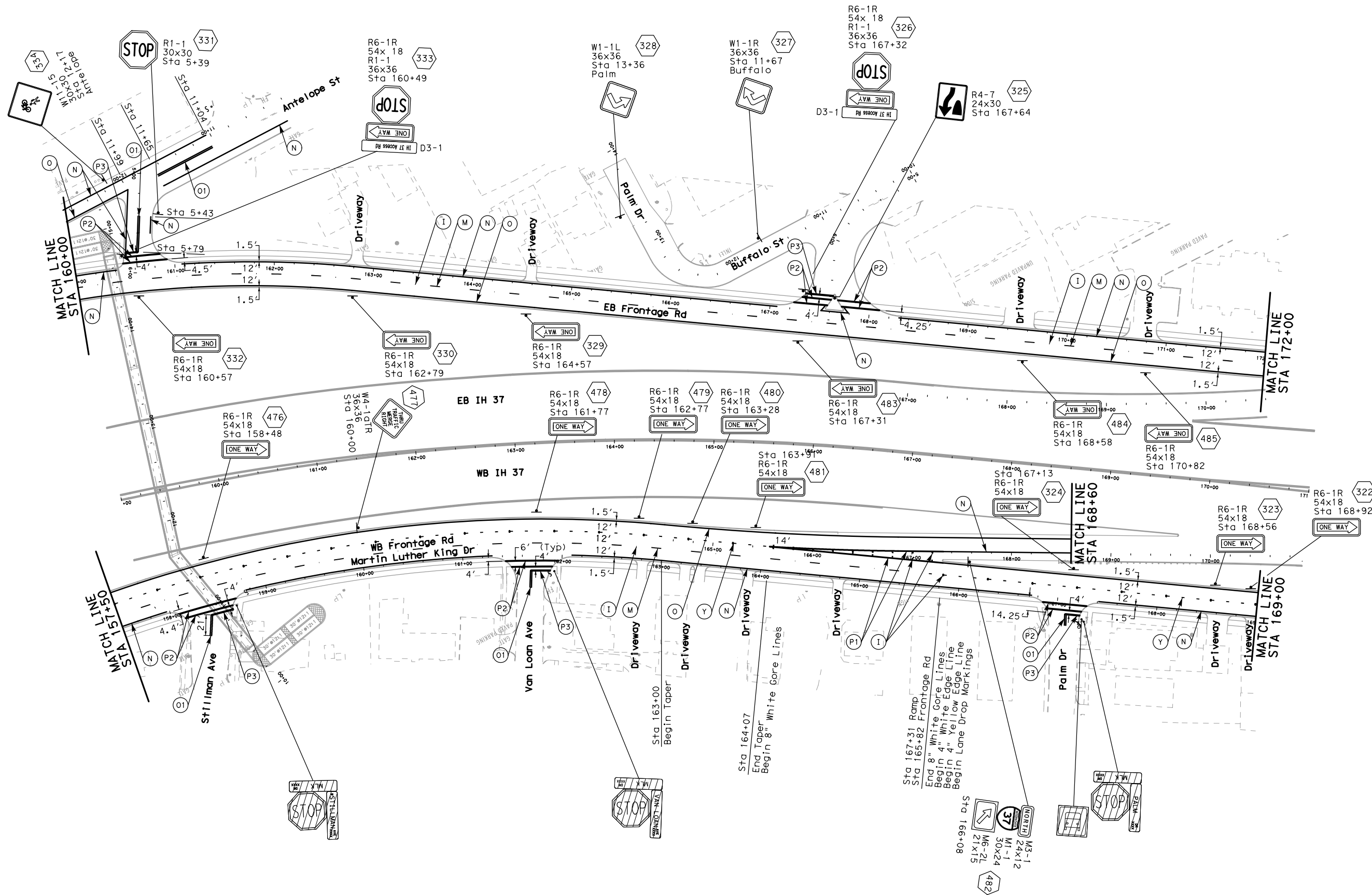
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ADVANCED STATUS			
NOT FOR CONSTRUCTION			
US 181 HARBOR BRIDGE			
PAVEMENT MARKING & SIGNING IH 37 FRONTAGE ROADS EB STA. 147+00 - STA. 160+00 WB STA. 145+00 - STA. 157+50			
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FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
6	HP X597(1)		STR-EWFR
STATE	STATE DIST. NO.	COUNTY	005
TEXAS	CRP	NUECES	
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IH 37 FRONTAGE ROADS

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ADVANCED STATUS					
NOT FOR CONSTRUCTION					
US 181 HARBOR BRIDGE					
PAVEMENT MARKING & SIGNING IH 37 FRONTAGE ROADS EB STA. 160+00 - STA. 172+00 WB STA. 157+50 - STA. 169+00					
Texas Department of Transportation					
DP-003					
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.		
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STATE	STATE DIST. NO.	COUNTY	006		
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