



MATCHLINE SEE SHEET 404-WT-02002

PLOT BY: NYPWICS01S PLOT TIME: 10/13/2016 4:37 PM

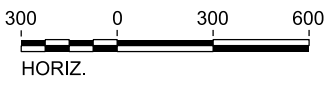
RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

NOTES:

- POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
- P = PERMANENT IMPACT
- T = TEMPORARY IMPACT
- ES = EPHEMERAL STREAM
- IS = INTERMITTENT STREAM
- PS = PERENNIAL STREAM
- C = CONVERSION
- TEMPORARY, PERMANENT AND CONVERSION IMPACTS ARE SUMMED UP IN ONE CALLOUT BOX FOR EACH FEATURE.
- UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
- DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).

PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01254 & CVL-WT-01255



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
www.arup.com  
Texas Registered Engineering Firm: F-1990



2711 North Haskell Ave., Suite 3300  
Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
www.freese.com  
Texas Registered Engineering Firm: F-2144



Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

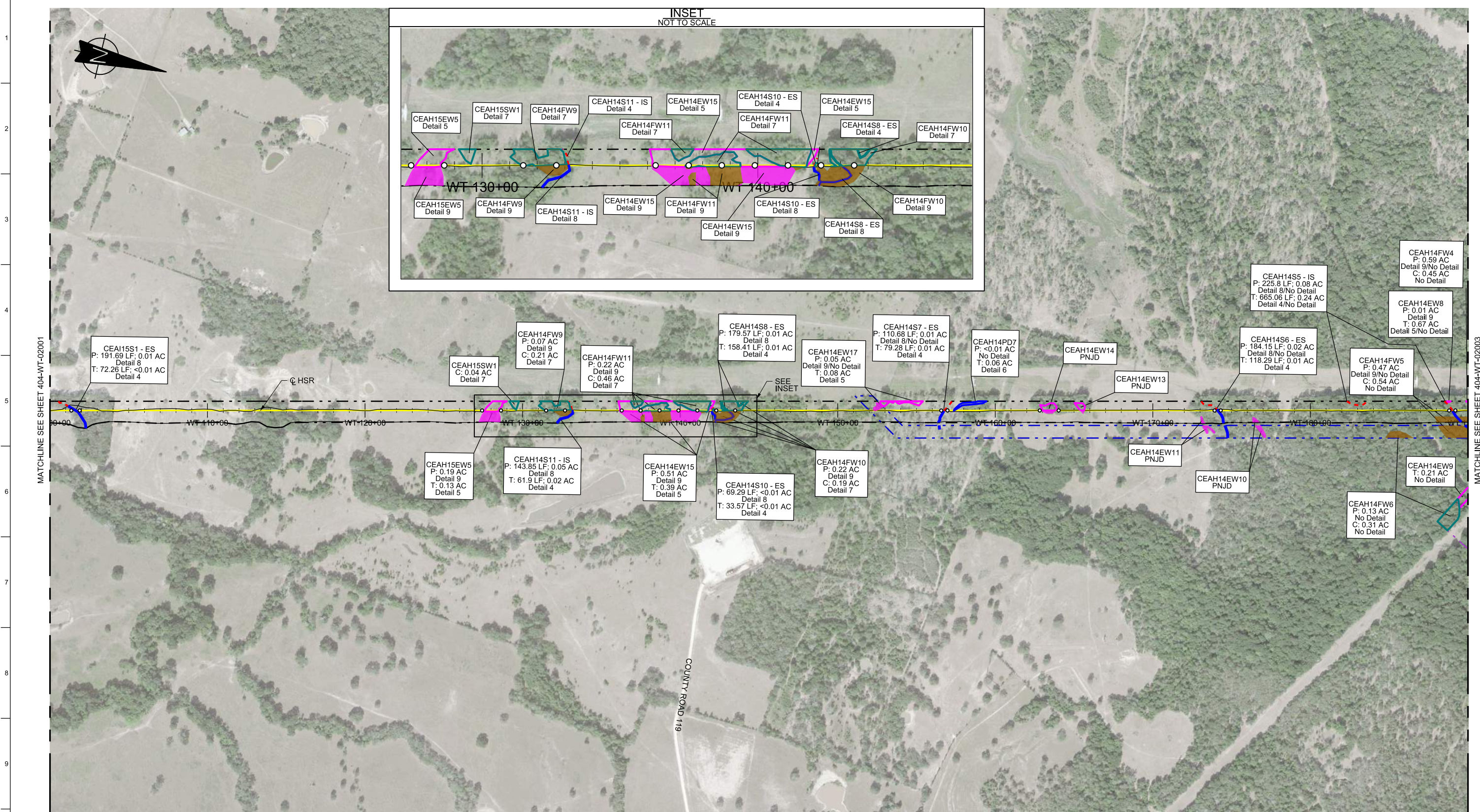
**PLAN VIEW (FRA SEG. 4)  
STA WT 10+00 TO 100+00**

Scale  
**AS SHOWN**

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No 234180	Drawing No 404-WT-02001	Rev 03
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RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

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REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01255, CVL-WT-01256 & CVL-WT-02157

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

**ARUP**

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10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
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**FREES & NICHOLS**

2711 North Haskell Ave., Suite 3300  
Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
www.frees.com  
Texas Registered Engineering Firm: F-2144

Client

**TEXAS CENTRAL**

1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title

**WEST OF TEAGUE SEGMENT**

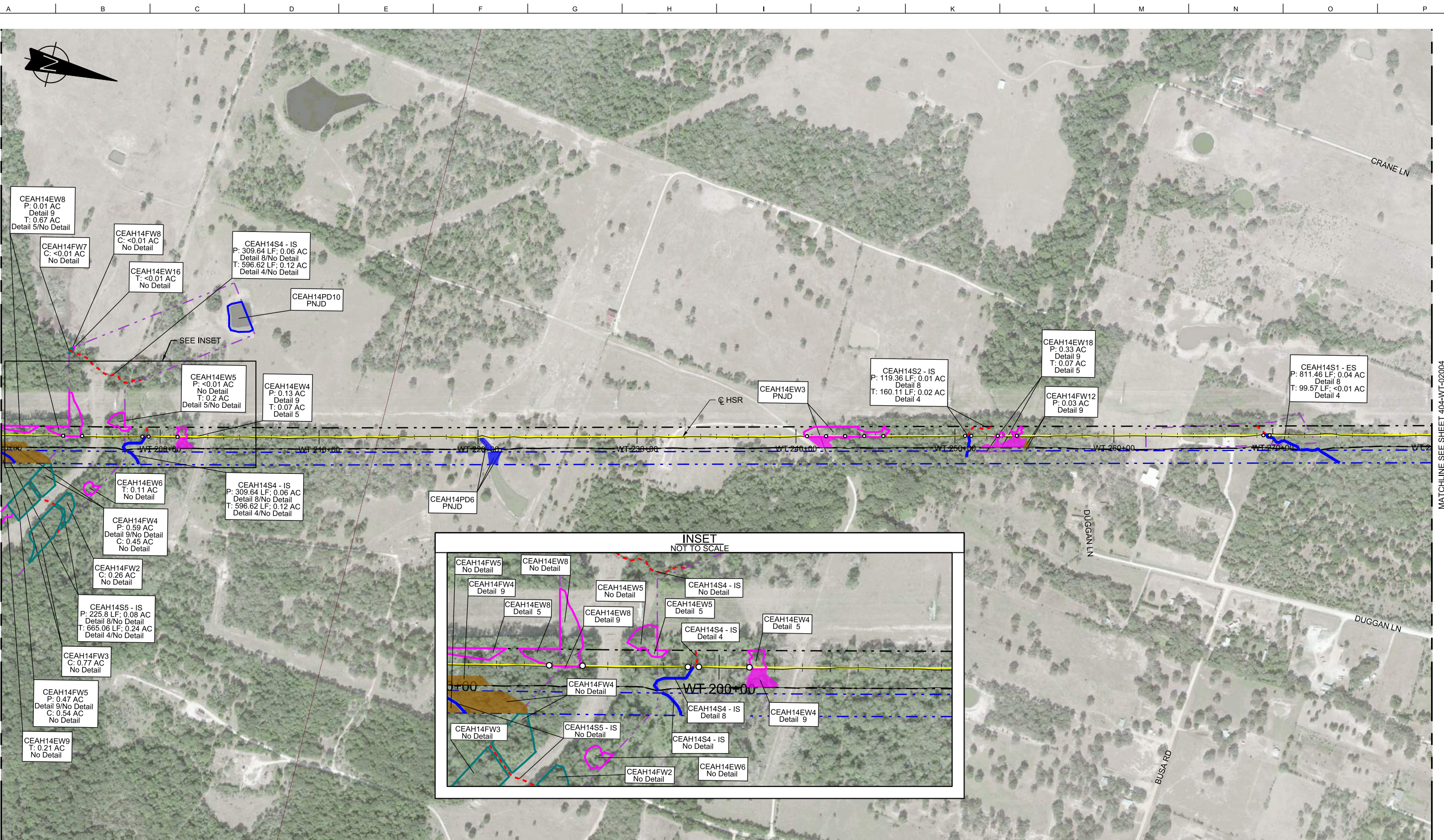
**PLAN VIEW (FRA SEG. 4)**  
**STA WT 100+00 TO 190+00**

Scale  
AS SHOWN

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No	Drawing No	Rev
234180	404-WT-02002	03





RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

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REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01255, CVL-WT-01256 & CVL-WT-02157

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

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Texas Registered Engineering Firm: F-2144

Client

**TEXAS CENTRAL**

1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

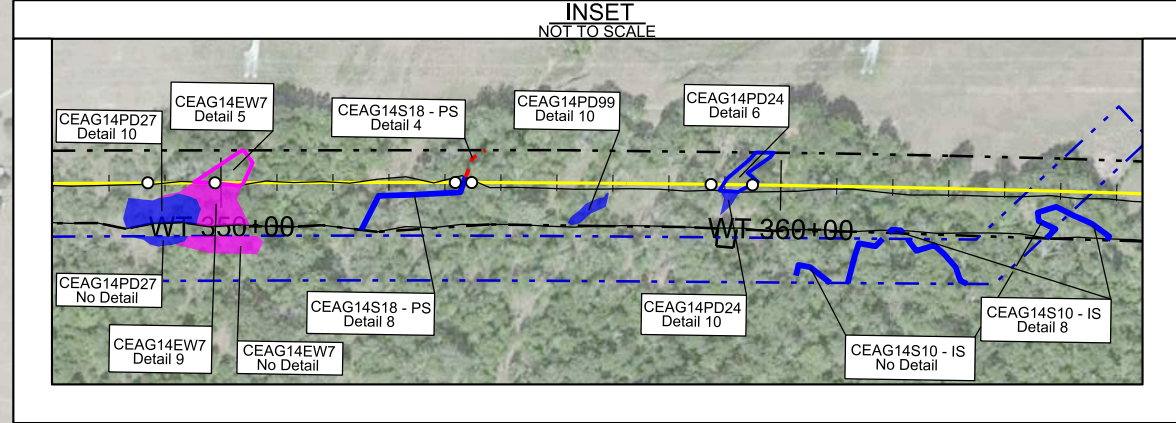
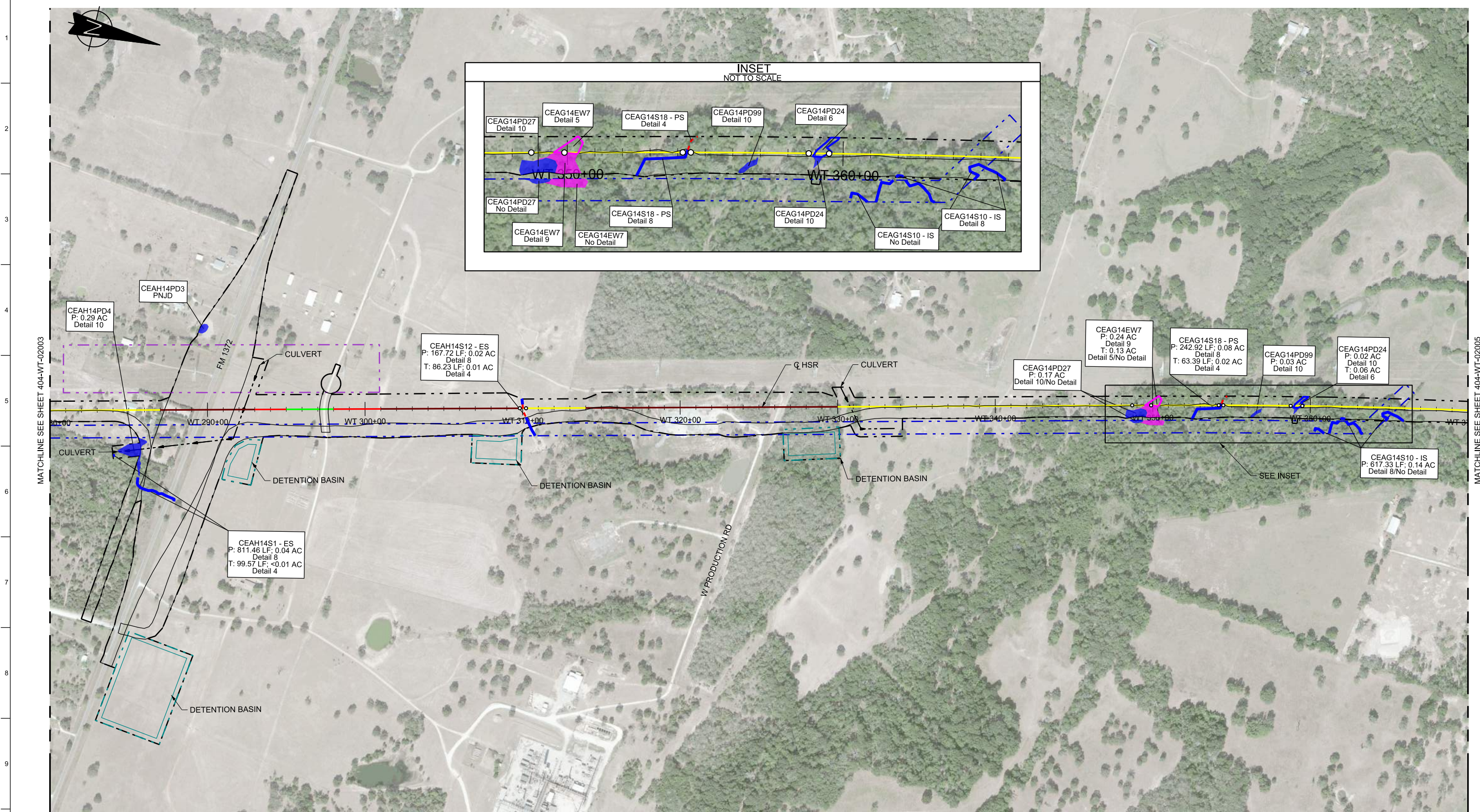
**PLAN VIEW (FRA SEG. 4)**  
**STA WT 190+00 TO 280+00**

Scale  
AS SHOWN

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No 234180	Drawing No 404-WT-02003	Rev 03
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MATCHLINE SEE SHEET 404-WT-02003

MATCHLINE SEE SHEET 404-WT-02005

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

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REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01258, CVL-WT-01259 & CVL-WT-02160

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

**ARUP**

Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
www.arup.com  
Texas Registered Engineering Firm: F-1990

**FRESE & NICHOLS**

2711 North Haskell Ave., Suite 3300  
Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
www.freese.com  
Texas Registered Engineering Firm: F-2144

Client

**TEXAS CENTRAL**

1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

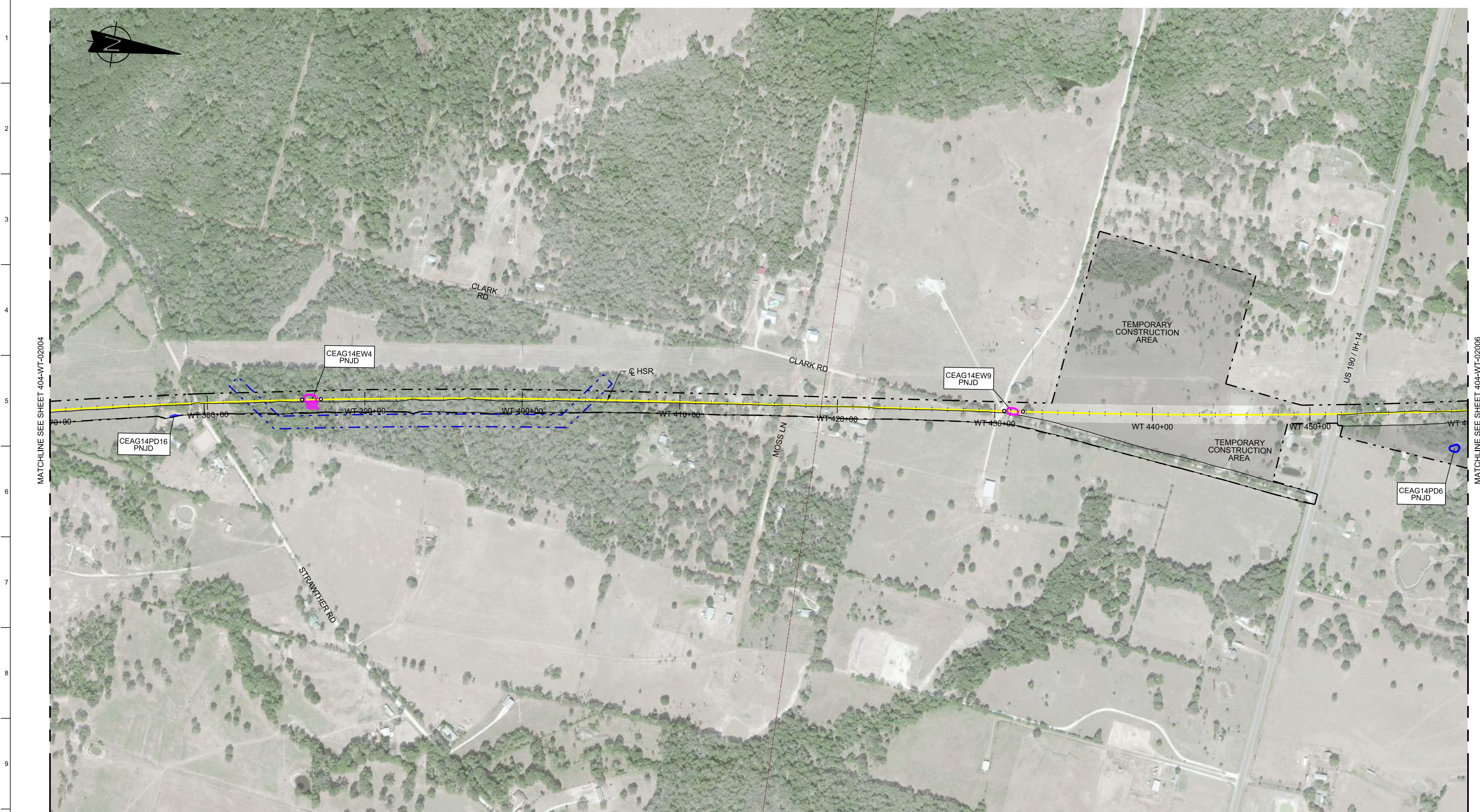
**PLAN VIEW (FRA SEG. 4)**  
**STA WT 280+00 TO 370+00**

Scale  
AS SHOWN

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No	Drawing No	Rev
234180	404-WT-02004	03





MATCHLINE SEE SHEET 404-WT-02004

MATCHLINE SEE SHEET 404-WT-02006

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

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**PLAN**

REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01260 & CVL-WT-02161

HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

**ARUP**

Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
www.arup.com  
Texas Registered Engineering Firm: F-1990

**FREESSE & NICHOLS**

2711 North Haskell Ave., Suite 3300  
Dallas, Texas 75204  
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www.freesse.com  
Texas Registered Engineering Firm: F-2144

Client

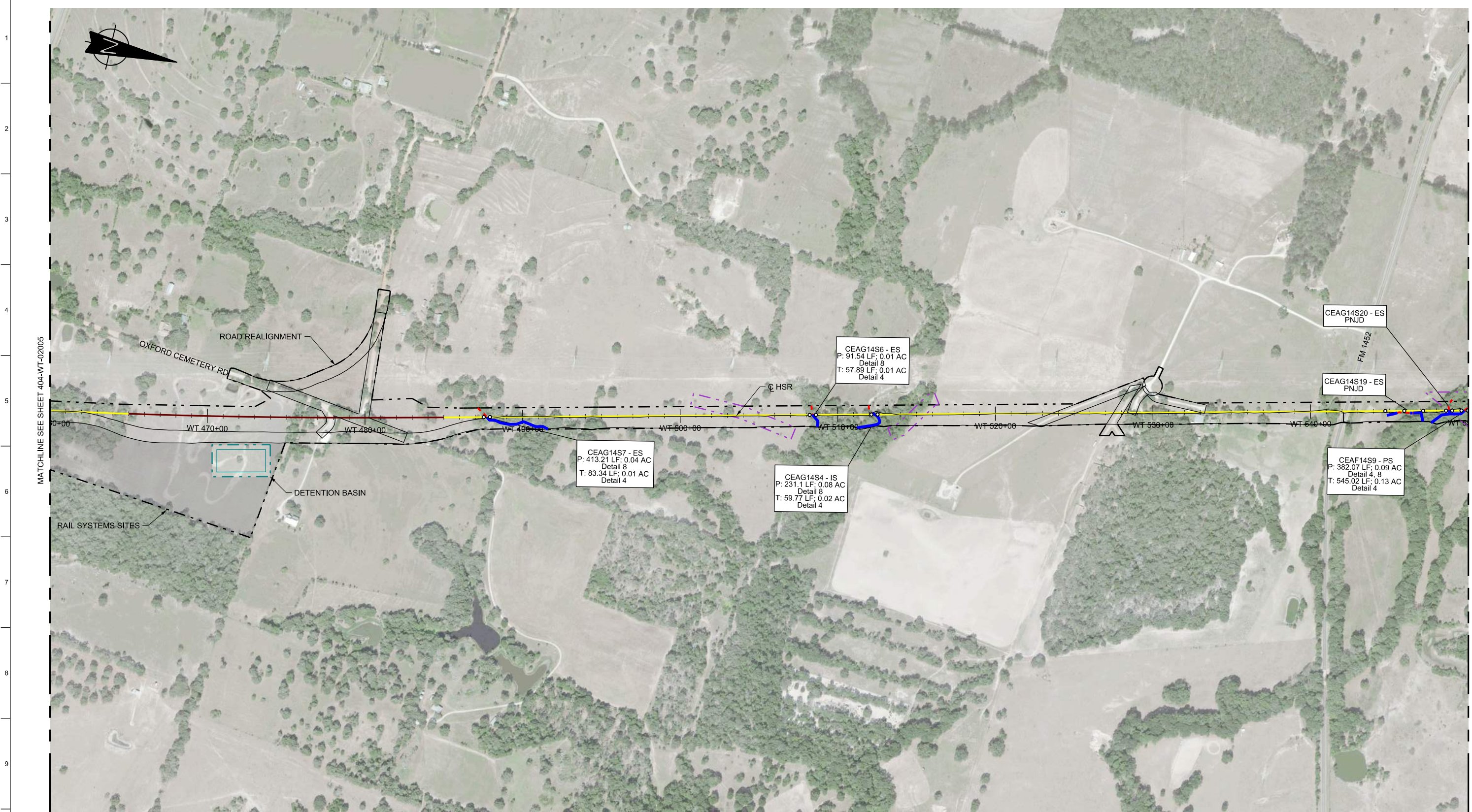
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 370+00 TO 460+00**

Scale AS SHOWN		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No 234180	Drawing No 404-WT-02005	Rev 03





MATCHLINE SEE SHEET 404-WT-02005

MATCHLINE SEE SHEET 404-WT-02007

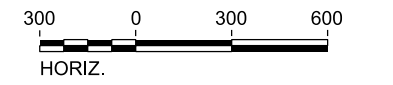
RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

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**PLAN**

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01262 & CVL-WT-02163



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
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Texas Registered Engineering Firm: F-2144



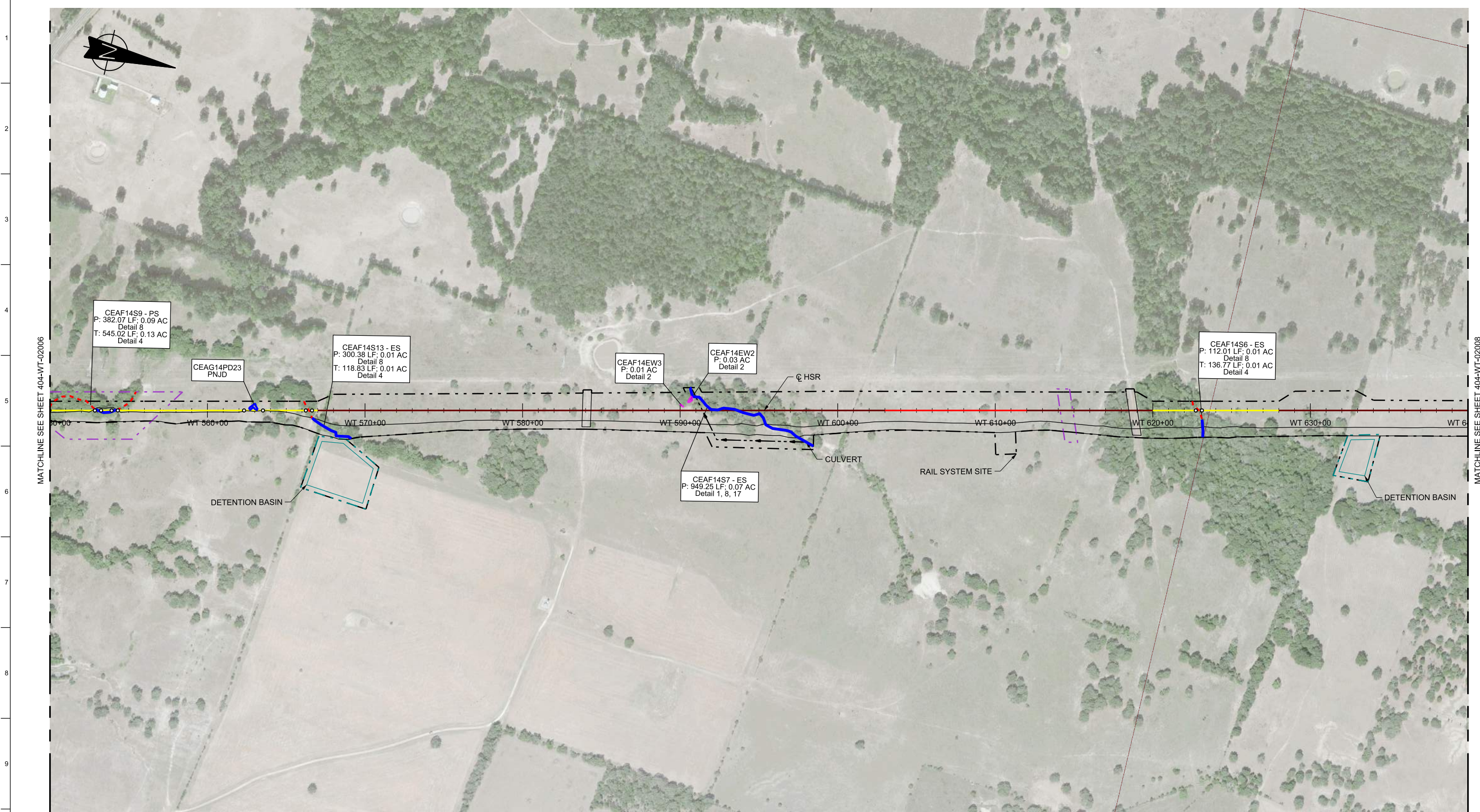
Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)  
STA WT 460+00 TO 550+00**

Scale AS SHOWN		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No 234180	Drawing No 404-WT-02006	Rev 03





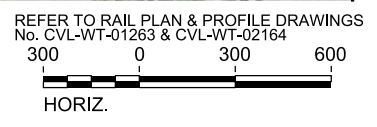
MATCHLINE SEE SHEET 404-WT-02006

MATCHLINE SEE SHEET 404-WT-02008

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

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**PLAN**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



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Texas Registered Engineering Firm: F-2144



Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

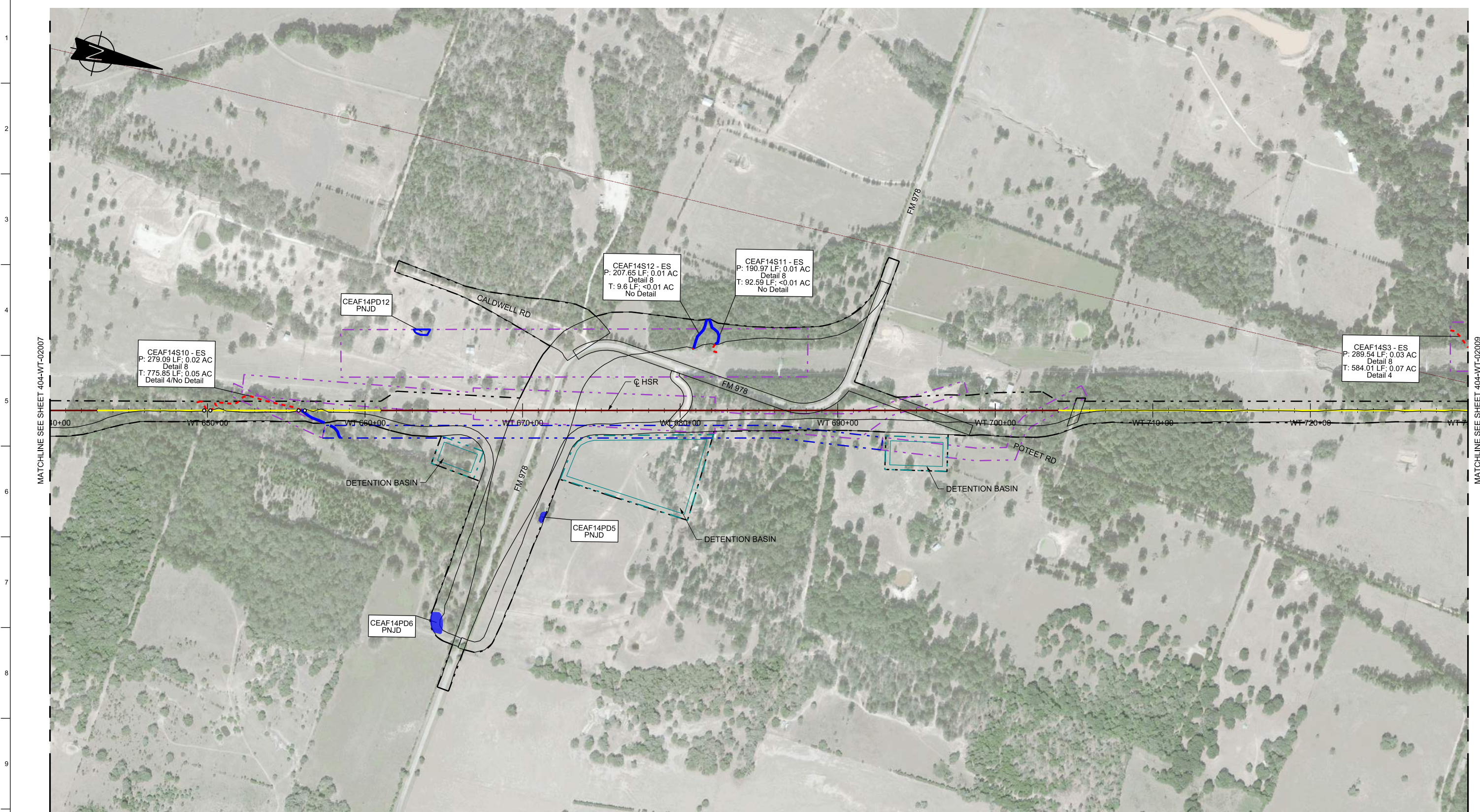
**PLAN VIEW (FRA SEG. 4)  
STA WT 550+00 TO 640+00**

Scale  
**AS SHOWN**

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No	Drawing No	Rev
234180	404-WT-02007	03





MATCHLINE SEE SHEET 404-WT-02007

MATCHLINE SEE SHEET 404-WT-02009

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
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### PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01264, CVL-WT-01265 & CVL-WT-02166

HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



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Texas Registered Engineering Firm: F-2144



Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

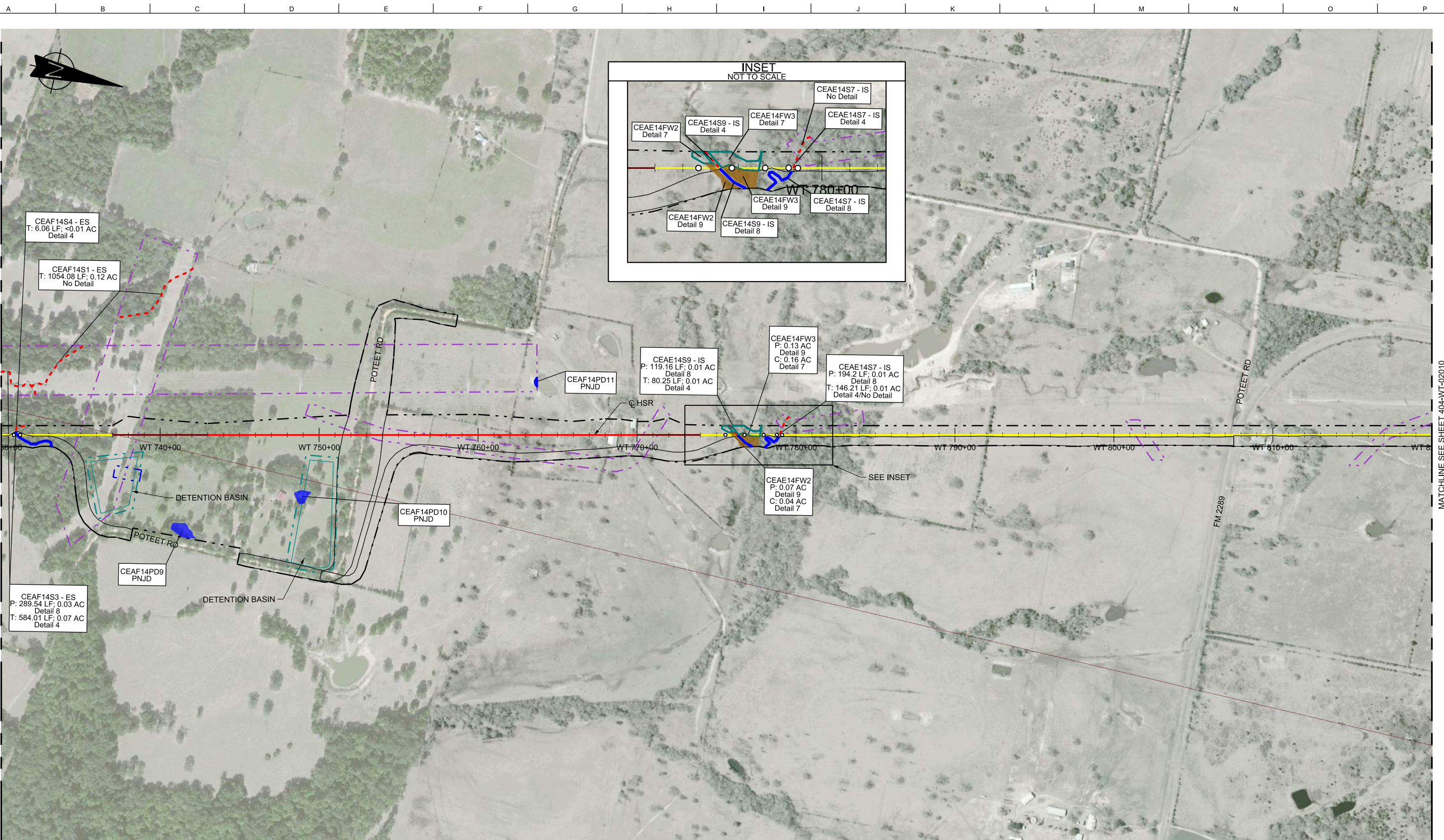
**PLAN VIEW (FRA SEG. 4)  
STA WT 640+00 TO 730+00**

Scale  
**AS SHOWN**

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No <b>234180</b>	Drawing No <b>404-WT-02008</b>	Rev <b>03</b>
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RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
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### PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01266, CVL-WT-01267 & CVL-WT-02168

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

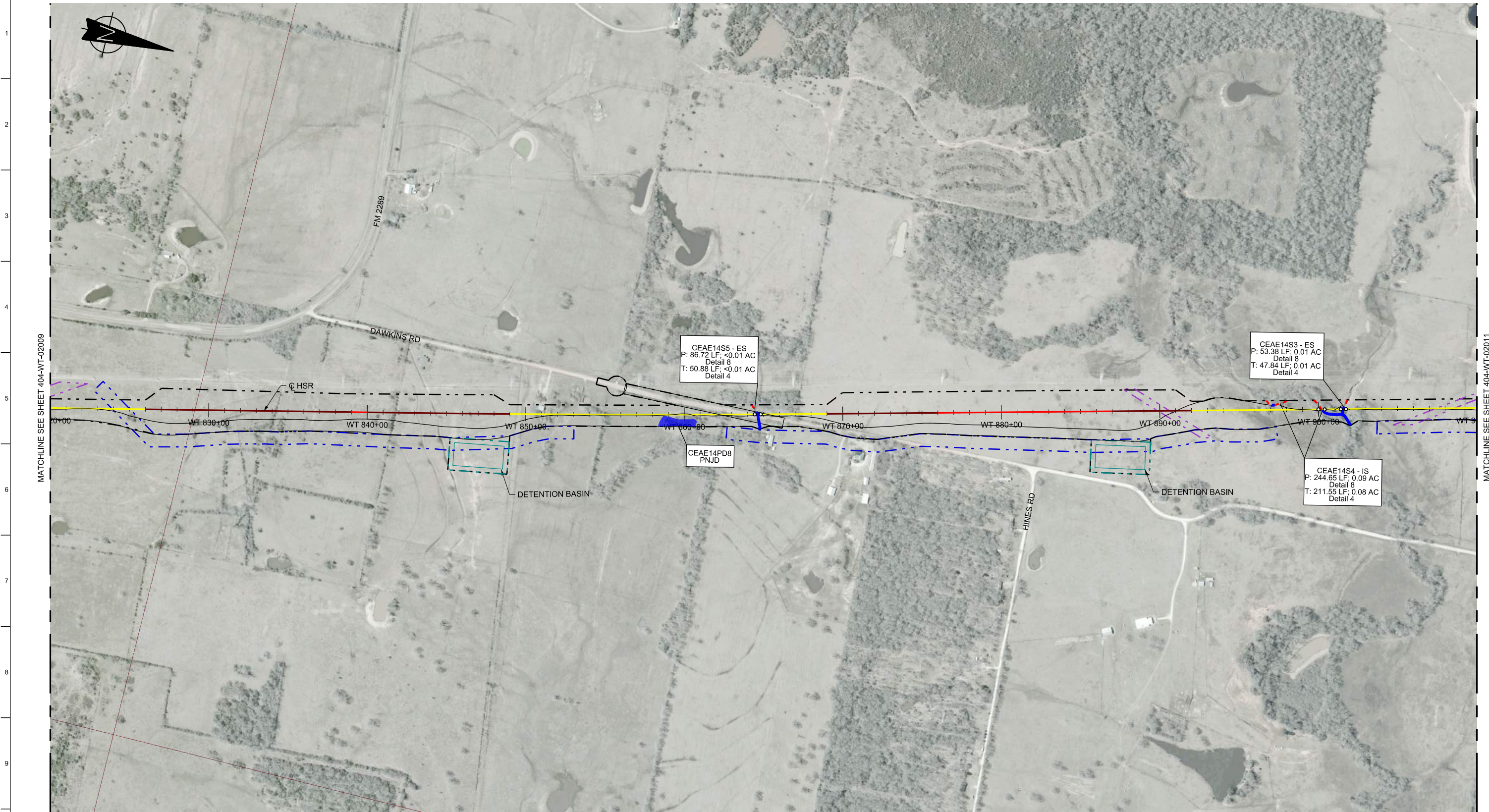


Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 730+00 TO 820+00**

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-WT-02009	Rev 03

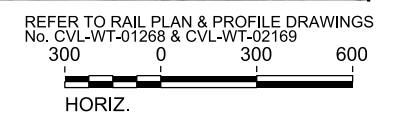




MATCHLINE SEE SHEET 404-WT-02009

MATCHLINE SEE SHEET 404-WT-02011

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER	NOTES:
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)	1. POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS	2. P = PERMANENT IMPACT
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS	3. T = TEMPORARY IMPACT
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS	4. ES = EPHEMERAL STREAM
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW	5. IS = INTERMITTENT STREAM
			PIER LOCATIONS	6. PS = PERENNIAL STREAM
				7. C = CONVERSION
				8. TEMPORARY, PERMANENT AND CONVERSION IMPACTS ARE SUMMED UP IN ONE CALLOUT BOX FOR EACH FEATURE.
				9. UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
				10. DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

**ARUP**  
Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
www.arup.com  
Texas Registered Engineering Firm: F-1990

**FRESE & NICHOLS**  
2711 North Haskell Ave., Suite 3300  
Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
www.freese.com  
Texas Registered Engineering Firm: F-2144

Client  
**TEXAS CENTRAL**  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

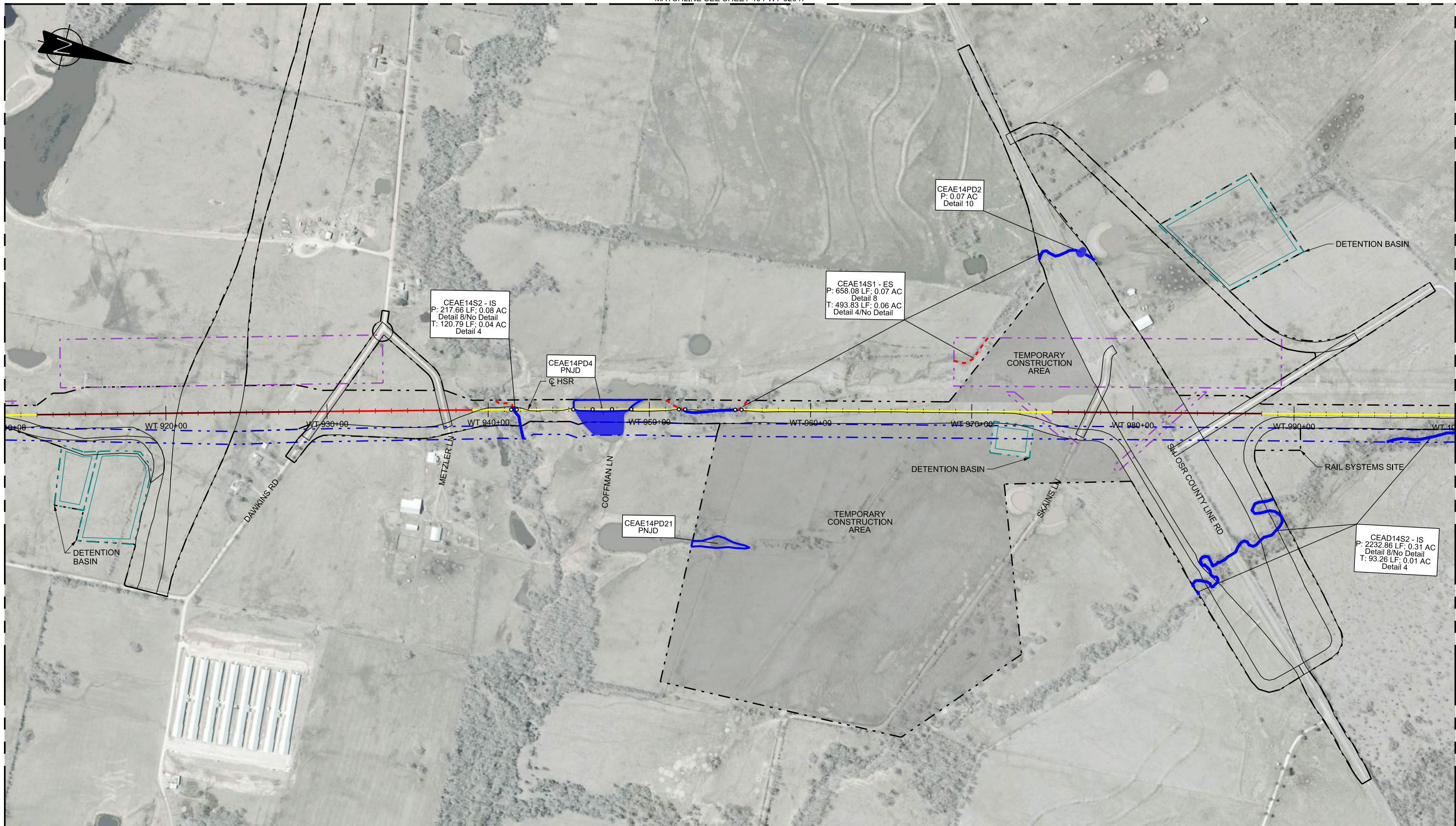
Drawing Title  
**WEST OF TEAGUE SEGMENT**  
**PLAN VIEW (FRA SEG. 4)**  
**STA WT 820+00 TO 910+00**

Scale AS SHOWN		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No 234180	Drawing No 404-WT-02010	Rev 03



MATCHLINE SEE SHEET 404-WT-02010

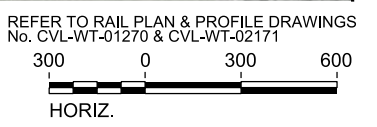
MATCHLINE SEE SHEET 404-WT-02012



RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

- NOTES:
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  - UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
  - DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).

### PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
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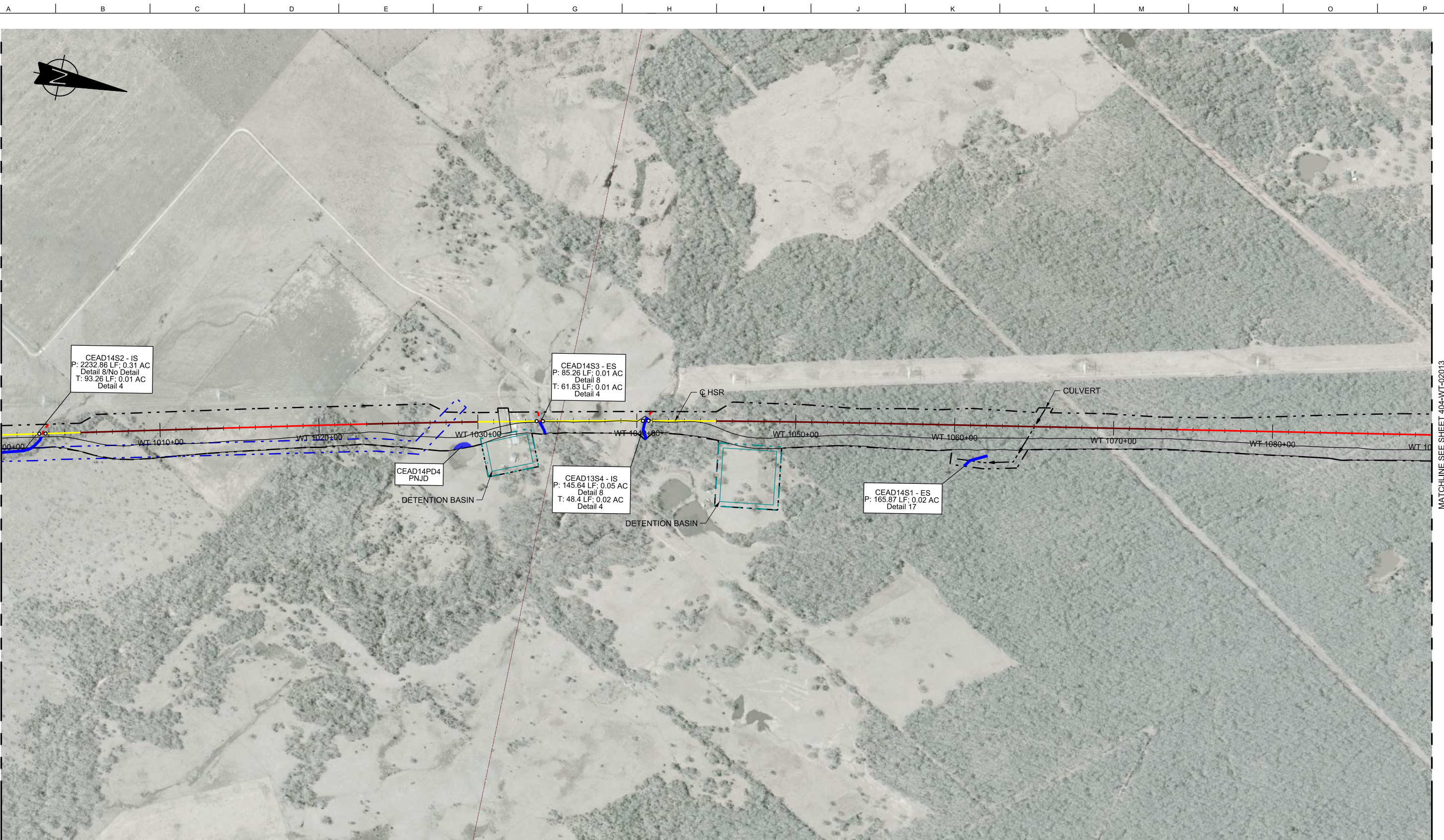


Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**  
**PLAN VIEW (FRA SEG. 4)**  
**STA WT 910+00 TO 1000+00**

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-WT-02011	Rev 03





MATCHLINE SEE SHEET 404-WT-02011

MATCHLINE SEE SHEET 404-WT-02013

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

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**PLAN**

REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01271 & CVL-WT-02173

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



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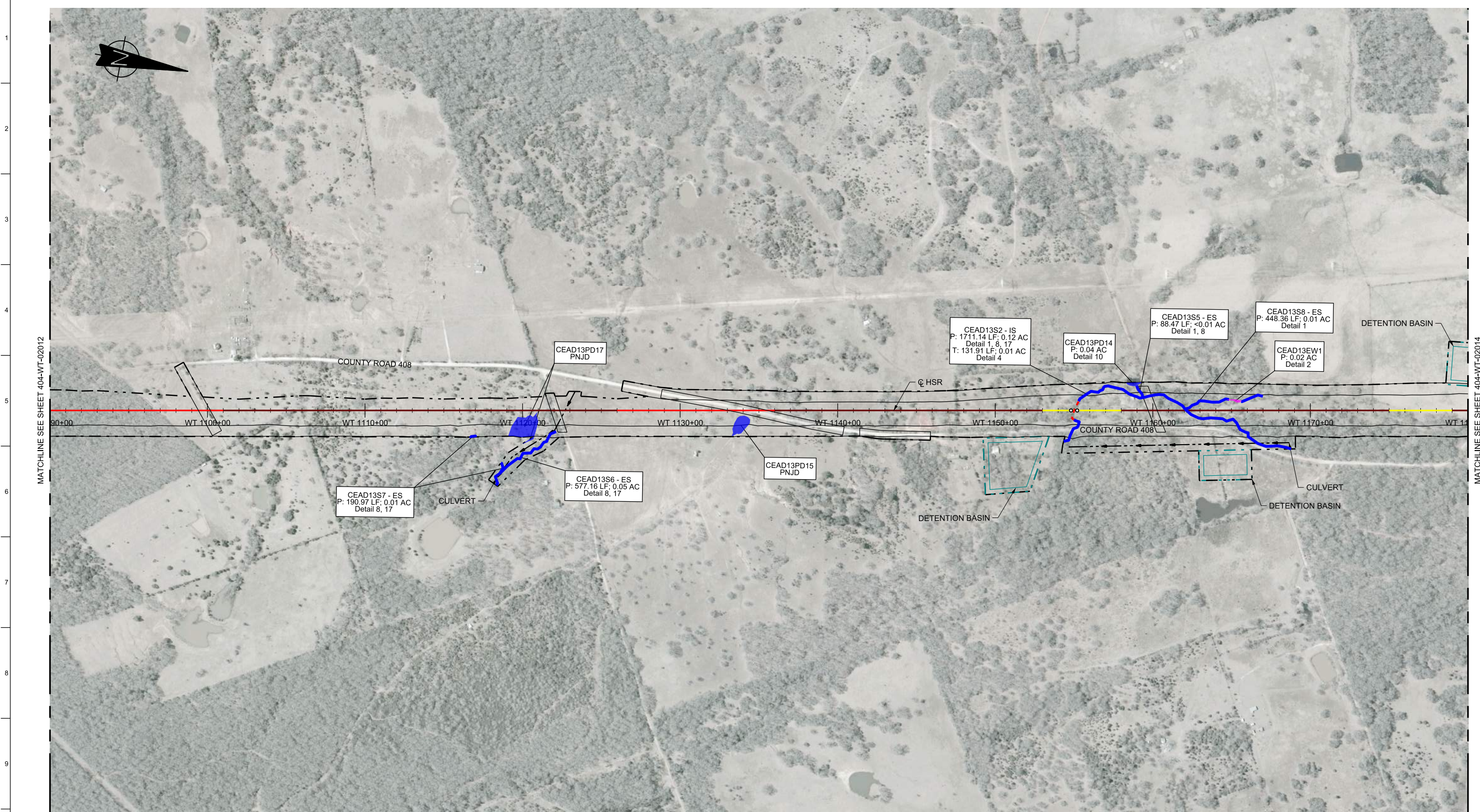
Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

Scale  
AS SHOWN  
Drawing Status  
**NOT FOR CONSTRUCTION**  
Job No. 234180 Drawing No. 404-WT-02012 Rev. 03

Scale AS SHOWN		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No. 234180	Drawing No. 404-WT-02012	Rev. 03

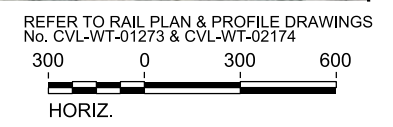




MATCHLINE SEE SHEET 404-WT-02012

MATCHLINE SEE SHEET 404-WT-02014

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER	NOTES:
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)	1. POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
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				10. DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

**ARUP**

Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
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Client

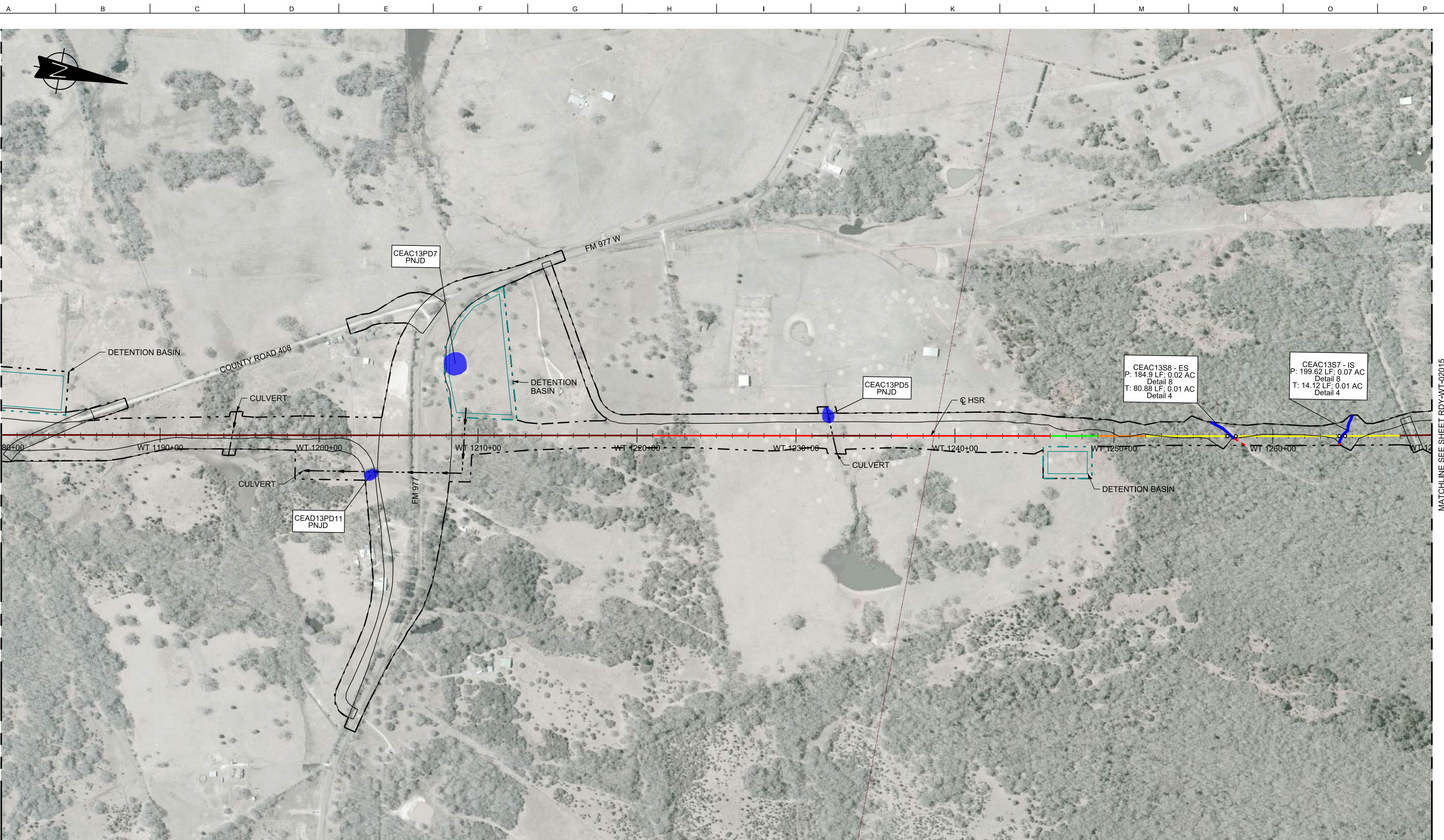
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1090+00 TO 1180+00**

Scale AS SHOWN	Drawing Status <b>NOT FOR CONSTRUCTION</b>	
Job No 234180	Drawing No 404-WT-02013	Rev 03





MATCHLINE SEE SHEET RDY-WT-02013

MATCHLINE SEE SHEET RDY-WT-02015

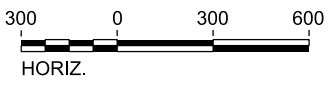
RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

**NOTES:**

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**PLAN**

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01275 & CVL-WT-02176



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
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Houston, Texas 77042 USA  
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Texas Registered Engineering Firm: F-2144



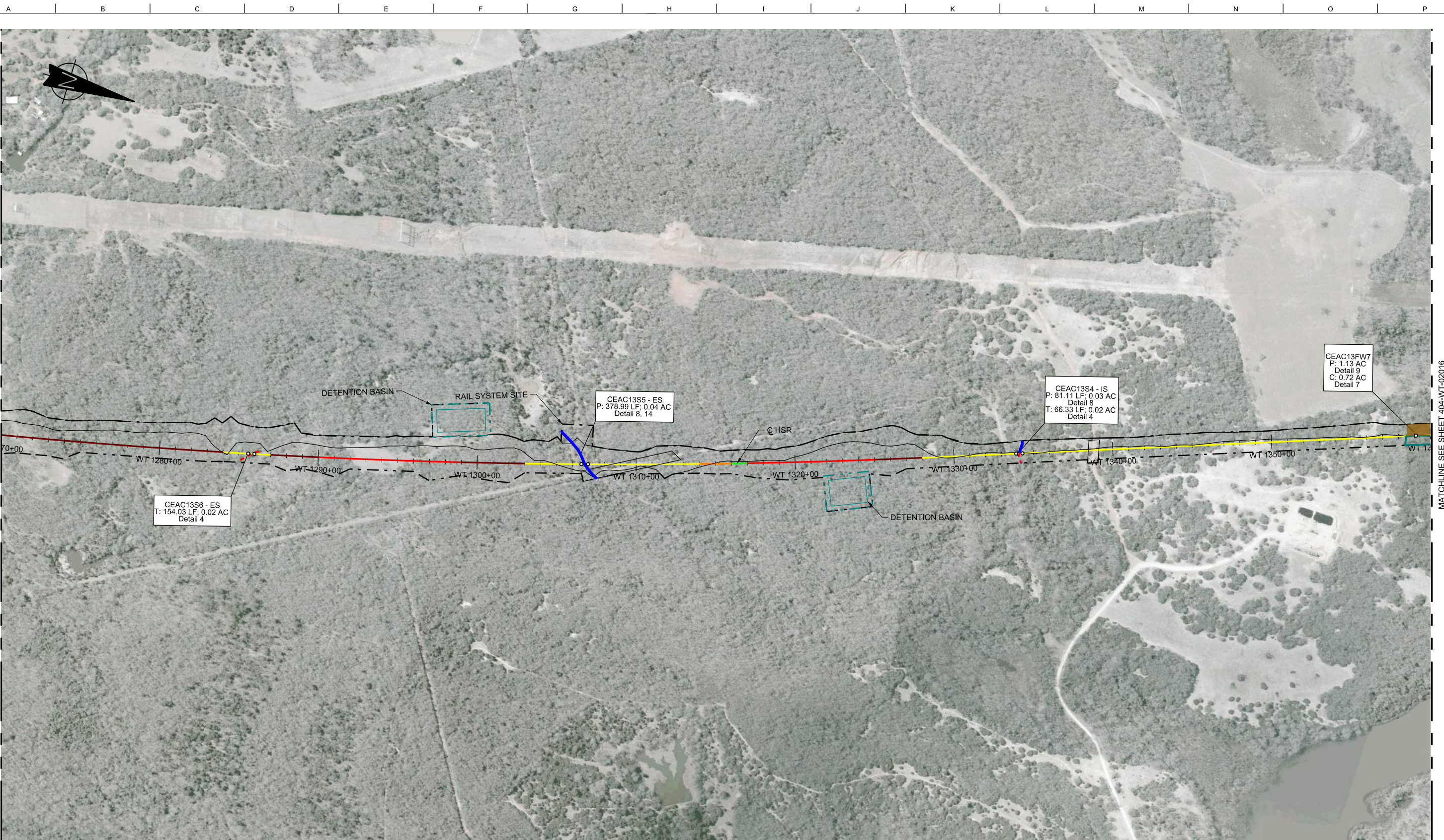
Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1180+00 TO 1270+00**

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-WT-02014	Rev 03





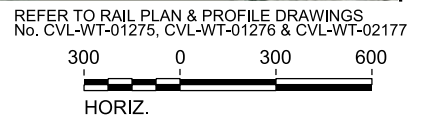
MATCHLINE SEE SHEET 404-WT-02014

MATCHLINE SEE SHEET 404-WT-02016

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

- NOTES:**
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  - UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
  - DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).

**PLAN**



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
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Texas Registered Engineering Firm: F-2144



Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

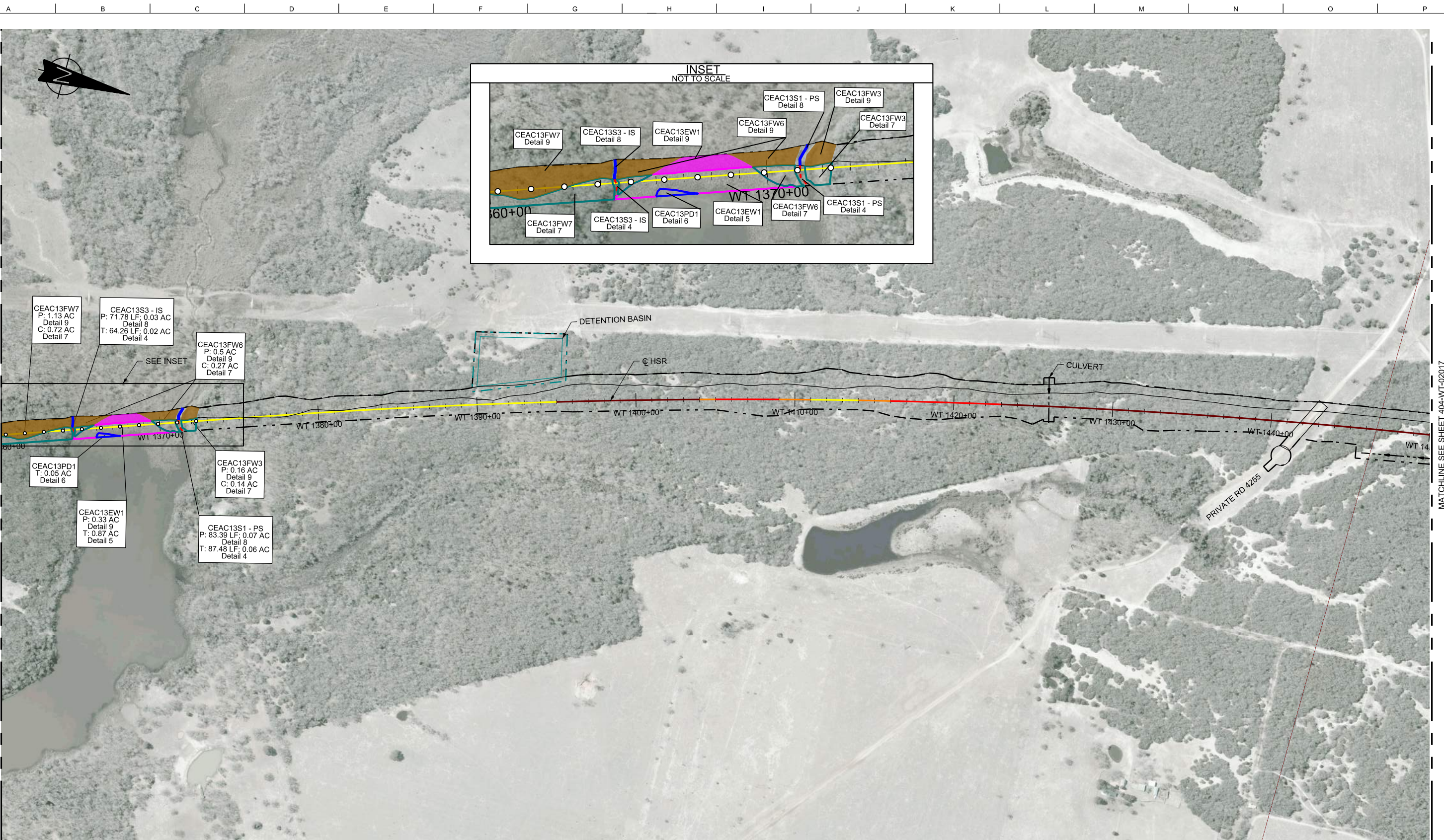
Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1270+00 TO 1360+00**

Scale  
**AS SHOWN**  
Drawing Status  
**NOT FOR CONSTRUCTION**

Job No	Drawing No	Rev
234180	404-WT-02015	03





MATCHLINE SEE SHEET 404-WT-02015

MATCHLINE SEE SHEET 404-WT-02017

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
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### PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01278 & CVL-WT-02179

HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



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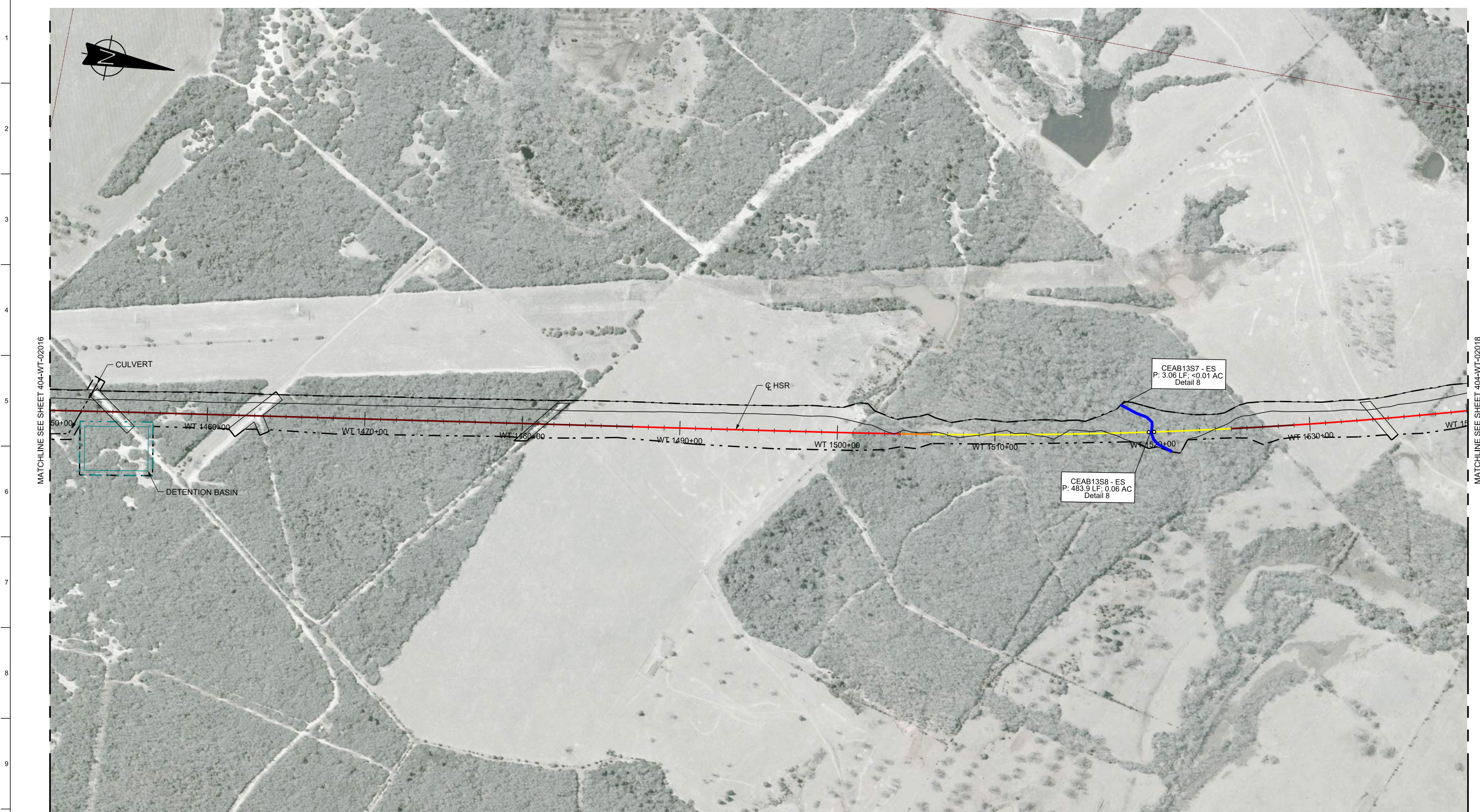
Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)  
STA WT 1360+00 TO 1450+00**

Scale AS SHOWN	Drawing Status <b>NOT FOR CONSTRUCTION</b>	
Job No 234180	Drawing No 404-WT-02016	Rev 03





RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
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REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01279, CVL-WT-01280 & CVL-WT-02181

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

**ARUP**

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**FREES & NICHOLS**

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Texas Registered Engineering Firm: F-2144

Client

**TEXAS CENTRAL**

1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

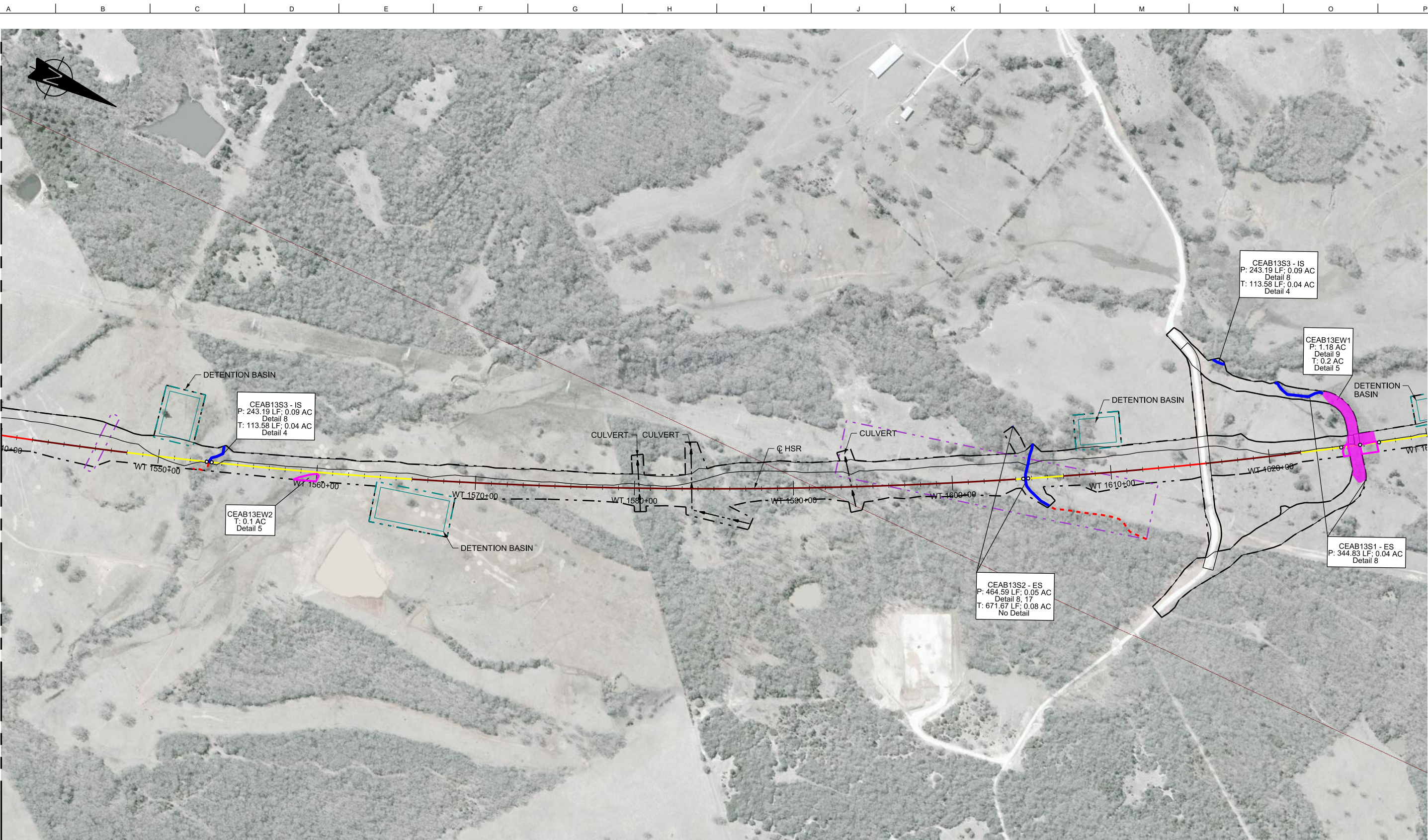
**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1450+00 TO 1540+00**

Scale  
AS SHOWN

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No	Drawing No	Rev
234180	404-WT-02017	03





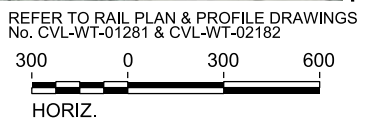
MATCHLINE SEE SHEET 404-WT-02017

MATCHLINE SEE SHEET 404-WT-02019

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
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### PLAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



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www.freese.com  
Texas Registered Engineering Firm: F-2144



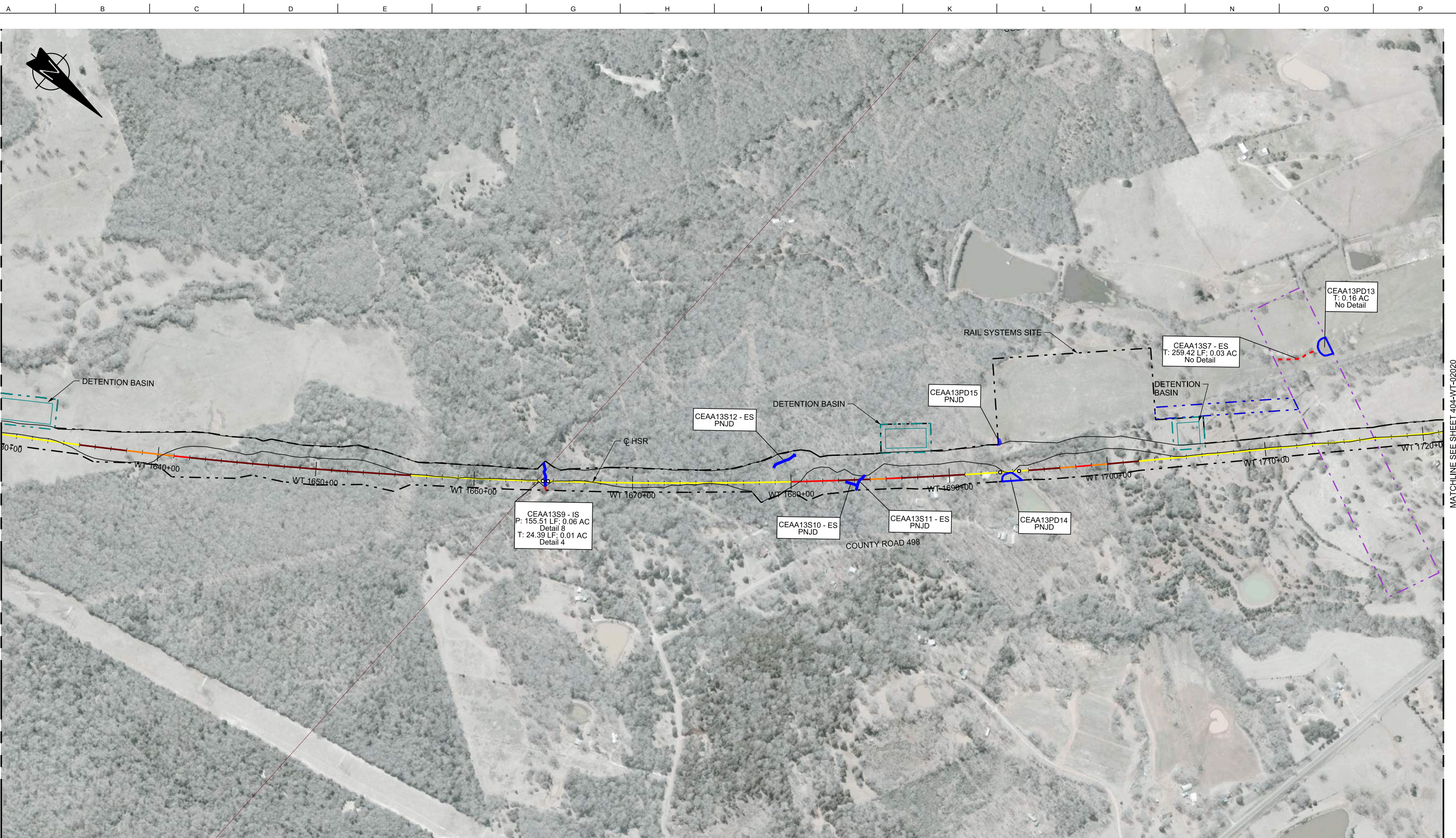
Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)  
STA WT 1540+00 TO 1630+00**

Scale AS SHOWN	Drawing Status <b>NOT FOR CONSTRUCTION</b>	
Job No 234180	Drawing No 404-WT-02018	Rev 03





MATCHLINE SEE SHEET 404-WT-02018

MATCHLINE SEE SHEET 404-WT-02020

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

- NOTES:**
- POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
  - P = PERMANENT IMPACT
  - T = TEMPORARY IMPACT
  - ES = EPHEMERAL STREAM
  - IS = INTERMITTENT STREAM
  - PS = PERENNIAL STREAM
  - C = CONVERSION
  - TEMPORARY, PERMANENT AND CONVERSION IMPACTS ARE SUMMED UP IN ONE CALLOUT BOX FOR EACH FEATURE.
  - UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
  - DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01283 & CVL-WT-02184

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483

**ARUP**  
Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
www.arup.com  
Texas Registered Engineering Firm: F-1990

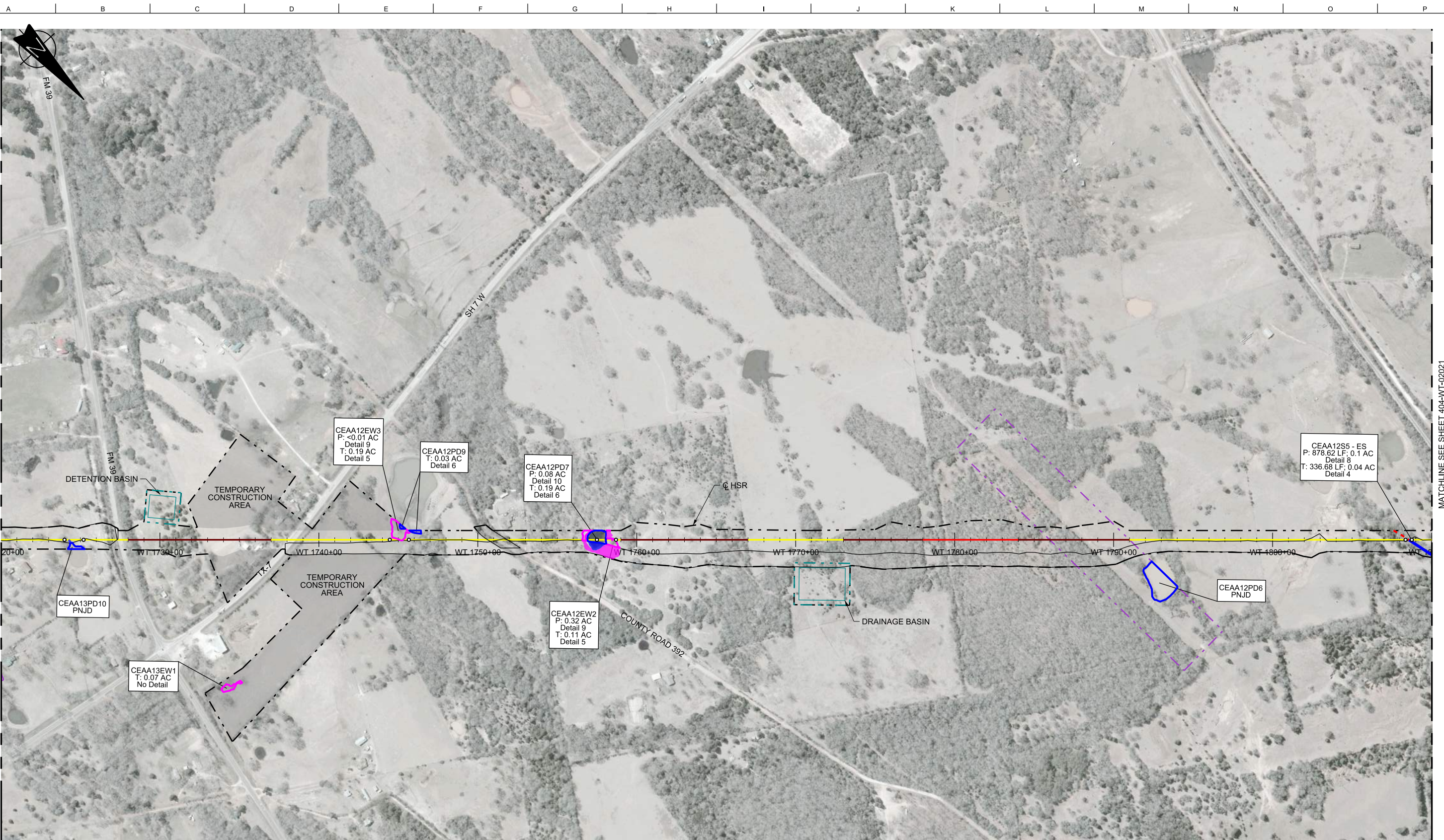
**FREES & NICHOLS**  
2711 North Haskell Ave., Suite 3300  
Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
www.freese.com  
Texas Registered Engineering Firm: F-2144

Client  
**TEXAS CENTRAL**  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**  
**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1630+00 TO 1720+00**

Scale  
**AS SHOWN**  
Drawing Status  
**NOT FOR CONSTRUCTION**  
Job No. **234180** Drawing No. **404-WT-02019** Rev. **03**





MATCHLINE SEE SHEET 404-WT-02019

MATCHLINE SEE SHEET 404-WT-02021

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

- NOTES:**
- POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
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  - UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
  - DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).

**PLAN**

REFER TO RAIL PLAN & PROFILE DRAWINGS  
No. CVL-WT-01284, CVL-WT-01285 & CVL-WT-02186

300 0 300 600  
HORIZ.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
www.arup.com  
Texas Registered Engineering Firm: F-1990



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Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
www.freese.com  
Texas Registered Engineering Firm: F-2144



Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

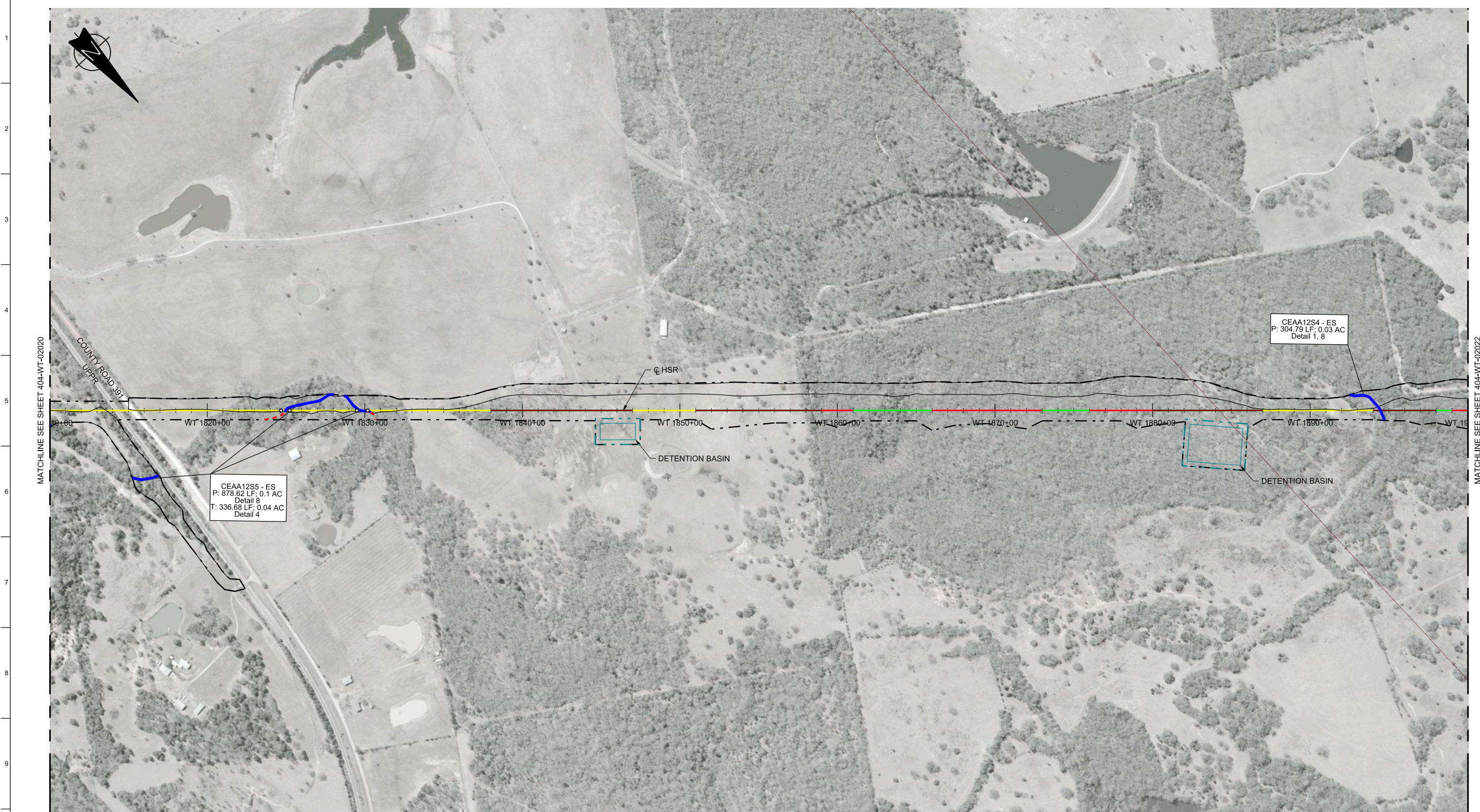
**PLAN VIEW (FRA SEG. 4)  
STA WT 1720+00 TO 1810+00**

Scale  
**AS SHOWN**

Drawing Status  
**NOT FOR CONSTRUCTION**

Job No	Drawing No	Rev
234180	404-WT-02020	03





CEAA12S5 - ES  
P: 878.82 LF; 0.1 AC  
Detail 3  
T: 336.68 LF; 0.04 AC  
Detail 4

CEAA12S4 - ES  
P: 304.79 LF; 0.03 AC  
Detail 1, 8

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

NOTES:

- POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
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PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01286 & CVL-WT-02187



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
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Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
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Texas Registered Engineering Firm: F-2144



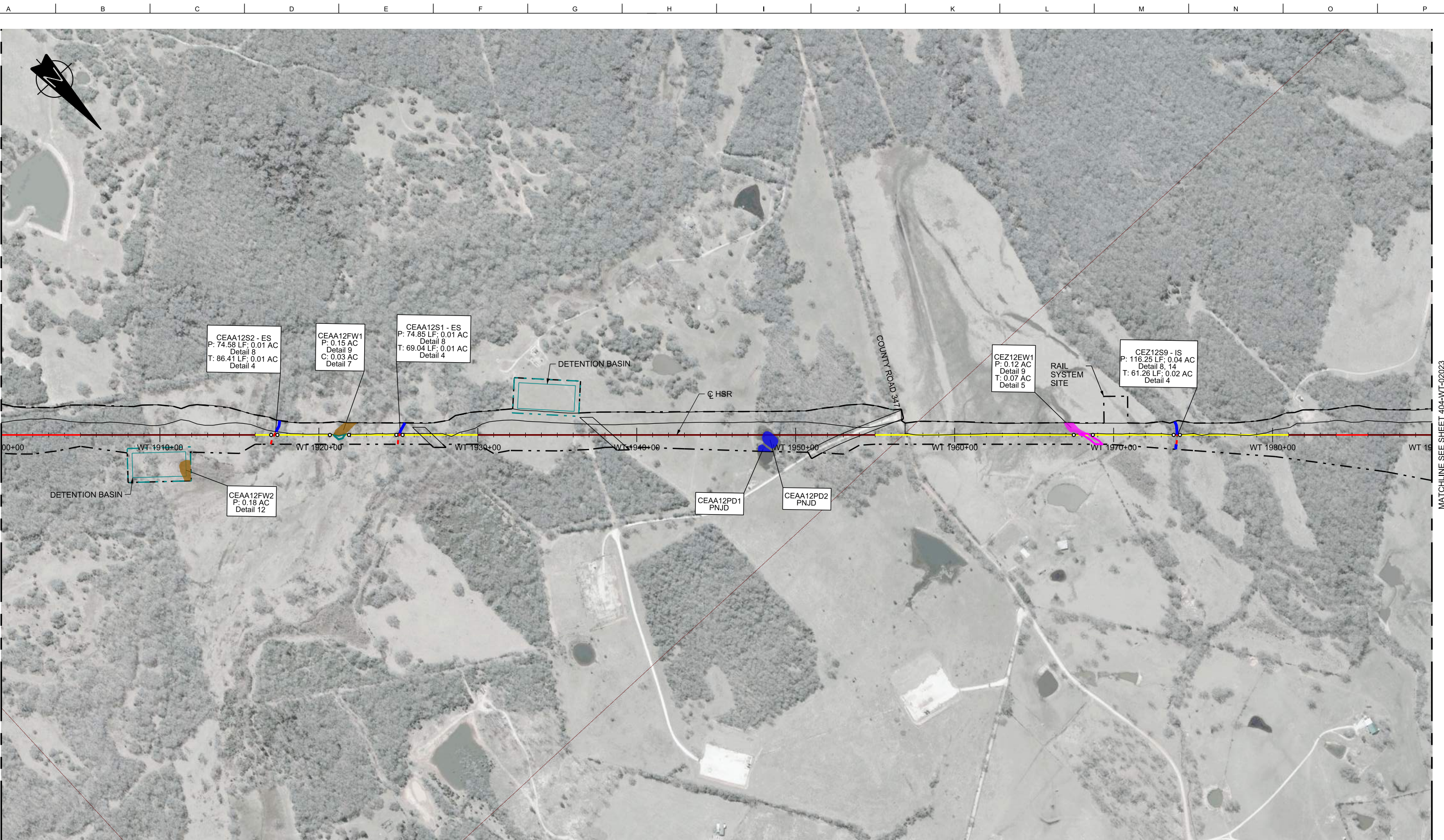
Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1810+00 TO 1900+00**

Scale AS SHOWN		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No 234180	Drawing No 404-WT-02021	Rev 03





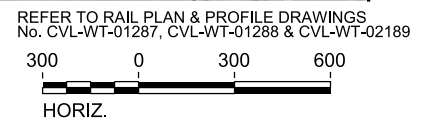
MATCHLINE SEE SHEET 404-WT-02021

MATCHLINE SEE SHEET 404-WT-02023

RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CULVERT FLOW	PIER LOCATIONS
	STREAMS	CONVERSION WETLAND	

- NOTES:**
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  - UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
  - DRAWINGS ARE PRINTED AT HALF-SIZE (11X17).

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01287, CVL-WT-01288 & CVL-WT-02189



**PLAN**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**  
DRAWN BY  
**J. HUFNAGEL**  
CHECKED BY  
**R. ALDREDGE**  
IN CHARGE  
**R. ZARATE**  
DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



Arup Texas, Inc.  
10370 Richmond Ave., Suite 475  
Houston, Texas 77042 USA  
Tel (713) 783 2787 Fax (713) 343 1467  
www.arup.com  
Texas Registered Engineering Firm: F-1990



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Dallas, Texas 75204  
Tel (214) 217 2200 Fax (214) 217 2201  
www.freese.com  
Texas Registered Engineering Firm: F-2144



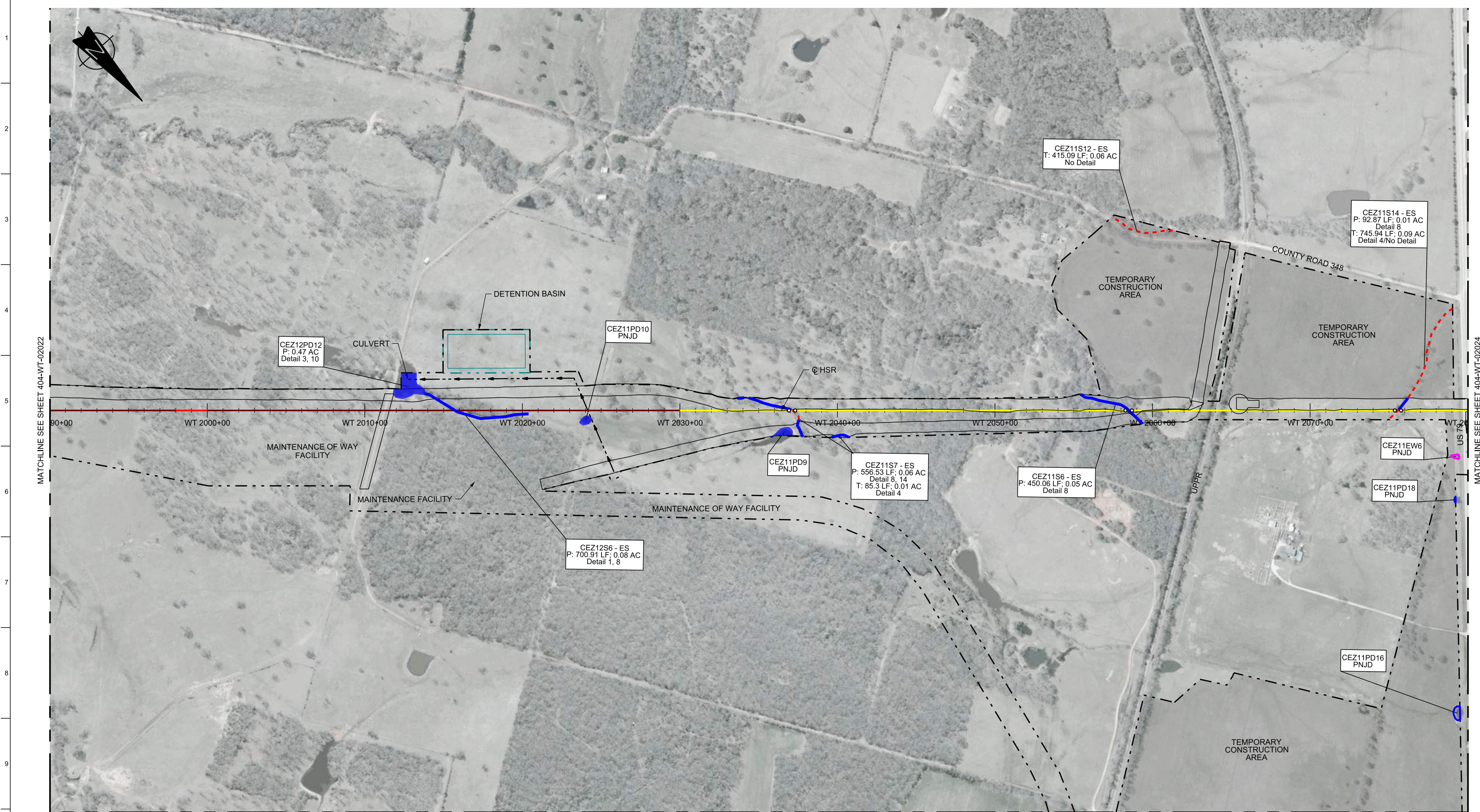
Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1900+00 TO 1990+00**

Scale AS SHOWN		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No 234180	Drawing No 404-WT-02022	Rev 03





RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

**NOTES:**

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**PLAN**

MATCHLINE SEE SHEET 404-WT-02048

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01289 & CVL-WT-02190

300 0 300 600  
HORIZ.

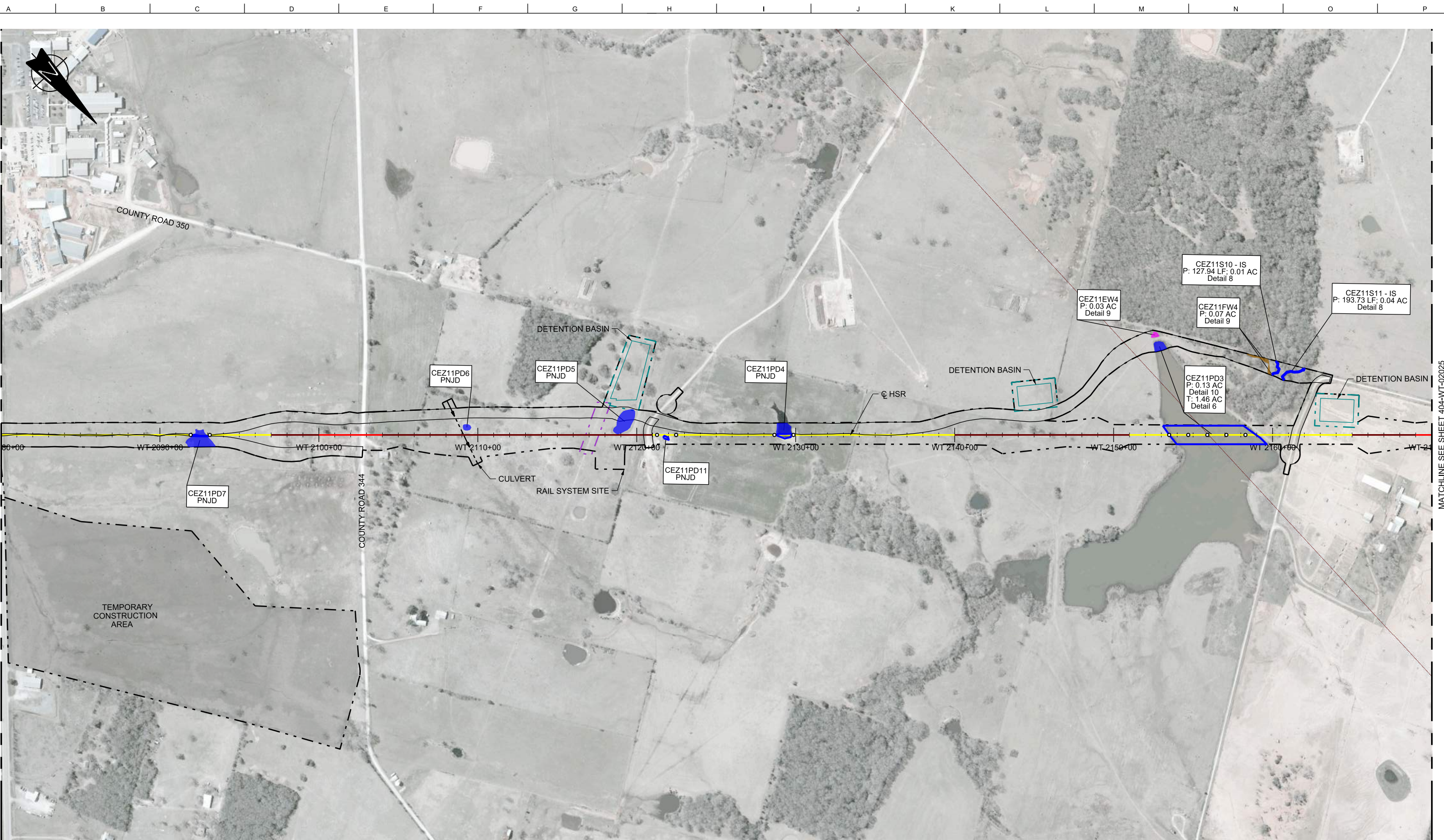
DESIGNED BY <b>R. ZARATE</b>	<b>DALLAS TO HOUSTON HIGH-SPEED RAIL APPLICANT: TCRR SWF-2011-00483</b>	<p>Arup Texas, Inc. 10370 Richmond Ave., Suite 475 Houston, Texas 77042 USA Tel (713) 783 2787 Fax (713) 343 1467 www.arup.com Texas Registered Engineering Firm: F-1990</p>	<p>2711 North Haskell Ave., Suite 3300 Dallas, Texas 75204 Tel (214) 217 2200 Fax (214) 217 2201 www.freesse.com Texas Registered Engineering Firm: F-2144</p>	<p>1409 South Lamar Street, Suite 1022, Dallas, Texas 75215</p>
DRAWN BY <b>J. HUFNAGEL</b>				
CHECKED BY <b>R. ALDREDGE</b>				
IN CHARGE <b>R. ZARATE</b>				
DATE <b>OCT. 2017</b>				

Scale <b>AS SHOWN</b>		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No <b>234180</b>	Drawing No <b>404-WT-02023</b>	Rev <b>03</b>

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)**  
**STA WT 1990+00 TO 2080+00**





MATCHLINE SEE SHEET 404-WT-02023

MATCHLINE SEE SHEET 404-WT-02025

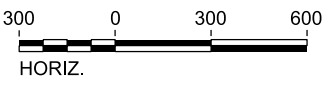
RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
EMBANKMENT	FORESTED WETLAND	POND	PERMANENT UTILITIES IMPACTS
RETAIN FILL	POND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	SCRUB/SHRUB WETLAND	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT	STREAMS	CONVERSION WETLAND	CULVERT FLOW
			PIER LOCATIONS

NOTES:

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PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-WT-01291 & CVL-WT-02192



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. ZARATE**

DRAWN BY  
**J. HUFNAGEL**

CHECKED BY  
**R. ALDREDGE**

IN CHARGE  
**R. ZARATE**

DATE  
**OCT. 2017**

DALLAS TO HOUSTON  
HIGH-SPEED RAIL  
APPLICANT: TCRR  
SWF-2011-00483



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Texas Registered Engineering Firm: F-2144



Client  
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title  
**WEST OF TEAGUE SEGMENT**

**PLAN VIEW (FRA SEG. 4)  
STA WT 2080+00 TO 2170+00**

Scale AS SHOWN		
Drawing Status <b>NOT FOR CONSTRUCTION</b>		
Job No 234180	Drawing No 404-WT-02024	Rev 03