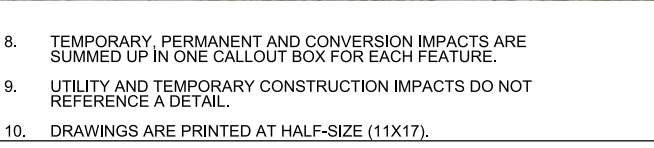


MATCHLINE SEE SHEET 404-HN-02028

MATCHLINE SEE SHEET 404-HN-02030

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).



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

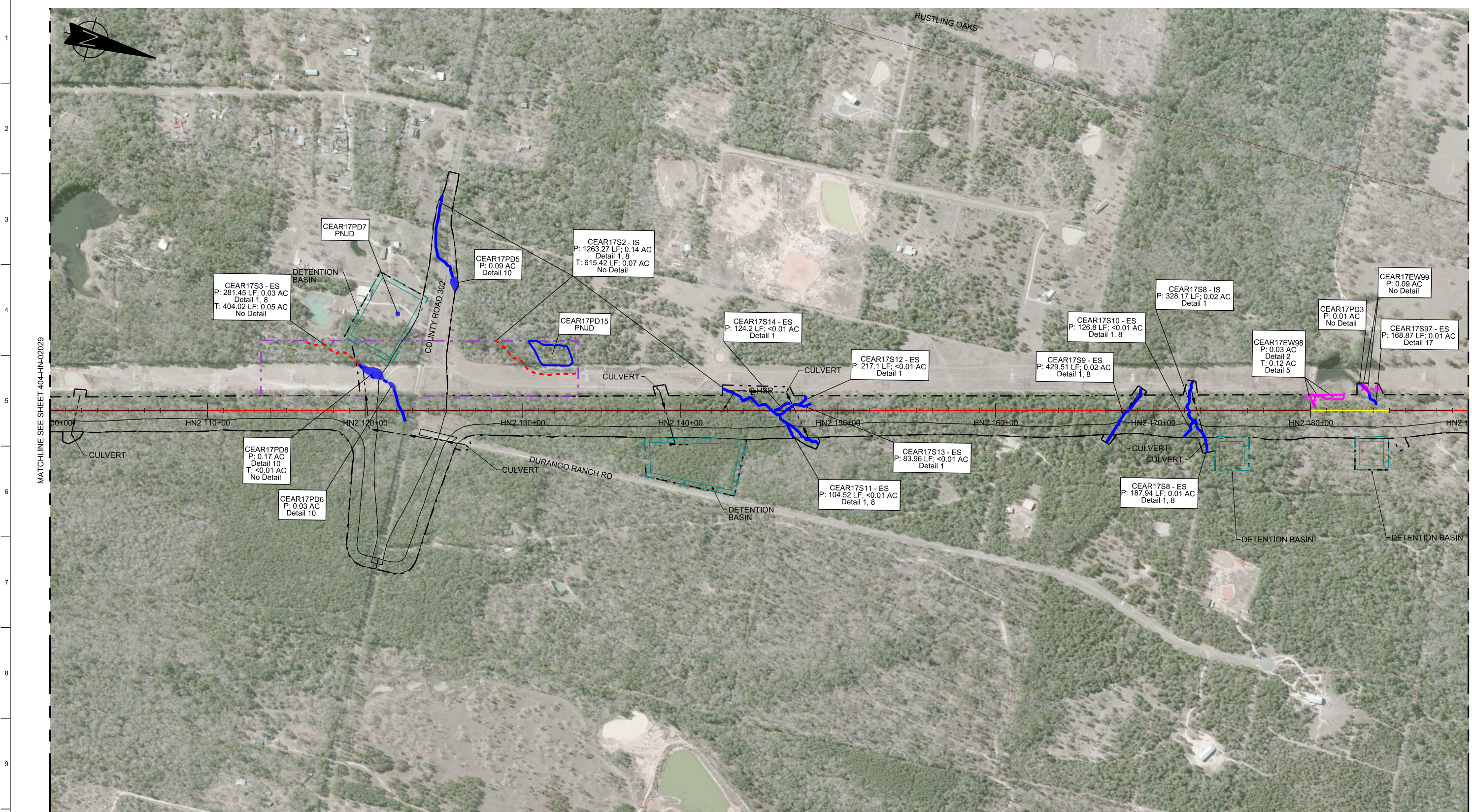
DALLAS TO HOUSTON
HIGH-SPEED RAIL
APPLICANT: TCRR
SWF-2011-00483



Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 10+00 TO 100+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02029	Rev 03



MATCHLINE SEE SHEET 404-HN-02029

MATCHLINE SEE SHEET 404-HN-02031

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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 - C = CONVERSION
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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-HN-01171, CVL-HN-01172 & CVL-HN-01173

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

Client

TEXAS CENTRAL

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

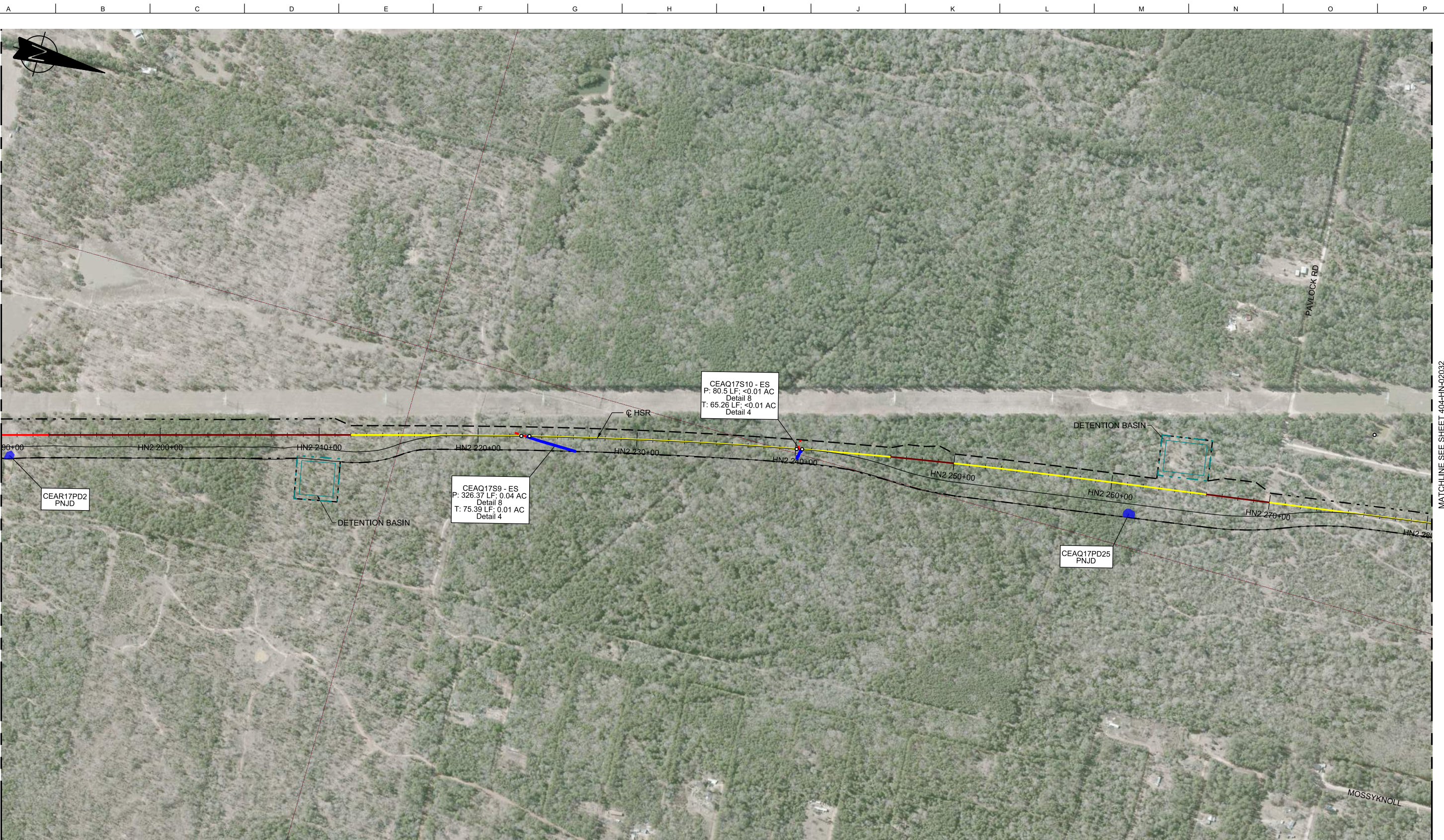
Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 100+00 TO 190+00

Scale
AS SHOWN

Drawing Status
NOT FOR CONSTRUCTION

Job No 234180	Drawing No 404-HN-02030	Rev 03
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MATCHLINE SEE SHEET 404-HN-02030

MATCHLINE SEE SHEET 404-HN-02032

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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 - 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 DRAWING No. CVL-HN-01173 & CVL-HN-01174

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

Client

TEXAS CENTRAL

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

Drawing Title

HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 190+00 TO 280+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02031	Rev 03



MATCHLINE SEE SHEET 404-HN-02031

MATCHLINE SEE SHEET 404-HN-02033

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	SCRUNB/SHRUB WETLAND	STREAMS	TEMPORARY UTILITIES IMPACTS
RETAIN CUT	STREAMS	OTHER IMPACTS	ROADWAY IMPACTS
VIADUCT		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).

REFER TO RAIL PLAN & PROFILE DRAWINGS
No. CVL-HN-01174, CVL-HN-01175 & CVL-HN-01176

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.
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Tel (214) 217 2200 Fax (214) 217 2201
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Texas Registered Engineering Firm: F-2144

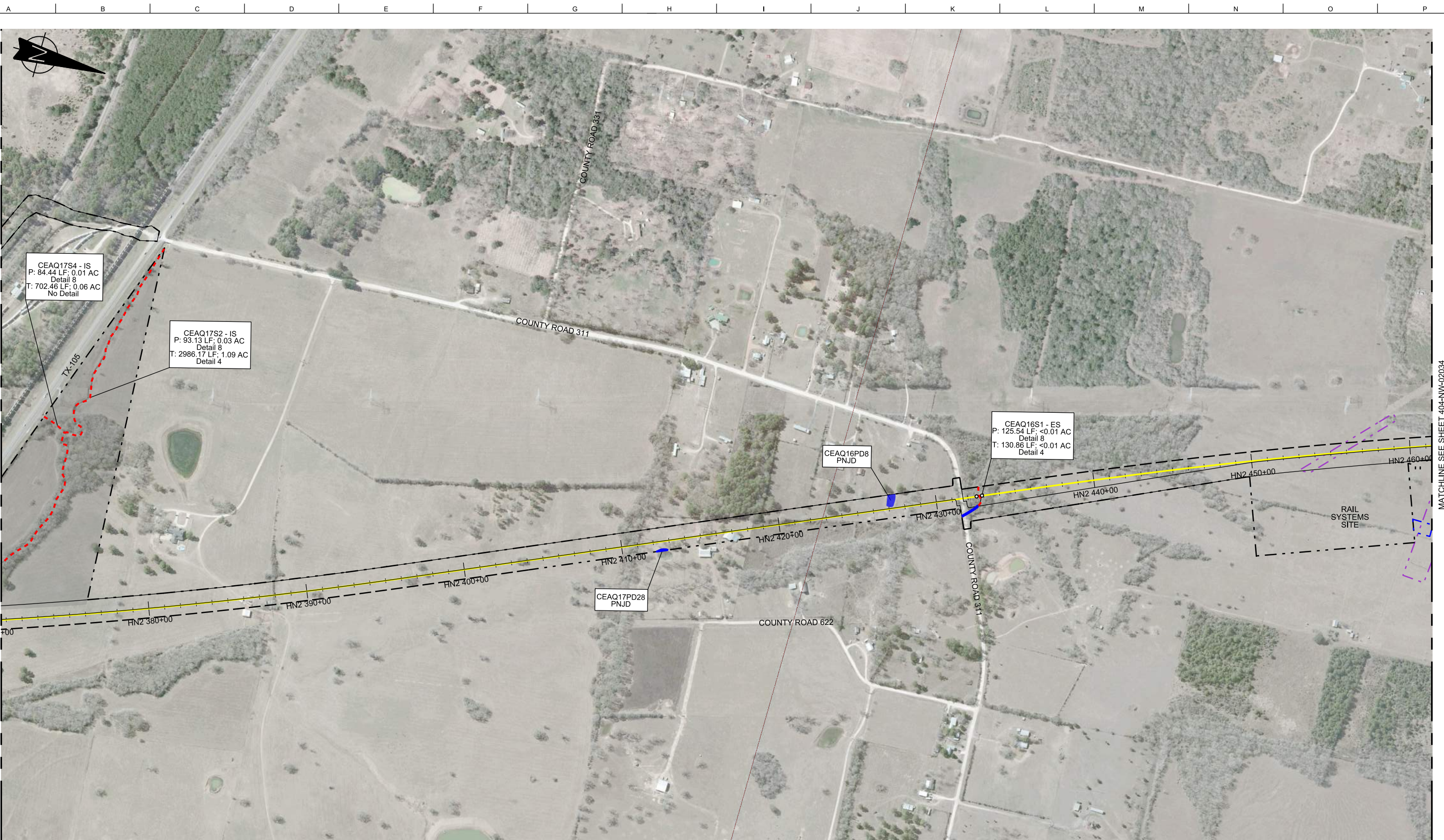
Client
TEXAS CENTRAL
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT
PLAN VIEW (FRA SEG. 5)
STA HN2 280+00 TO 370+00

Scale
AS SHOWN

Drawing Status
NOT FOR CONSTRUCTION

Job No 234180	Drawing No 404-HN-02032	Rev 03
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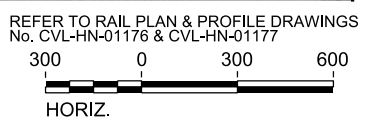
MATCHLINE SEE SHEET 404-HN-02032

MATCHLINE SEE SHEET 404-HN-02034

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:**
- POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
 - P = PERMANENT IMPACT
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 - C = CONVERSION
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 - 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



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Texas Registered Engineering Firm: F-2144

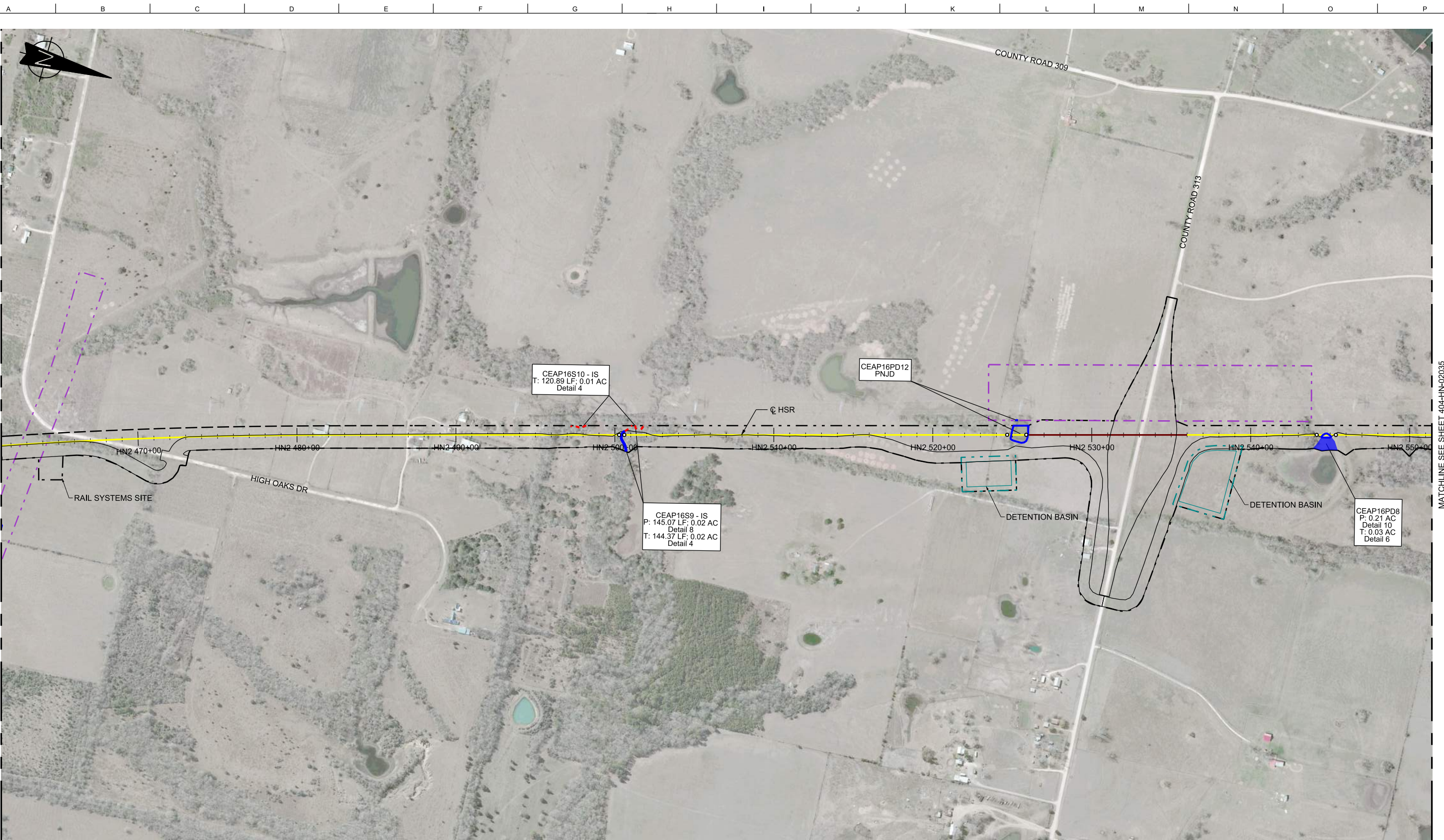


Client
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 370+00 TO 460+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02033	Rev 03



MATCHLINE SEE SHEET 404-HN-02033

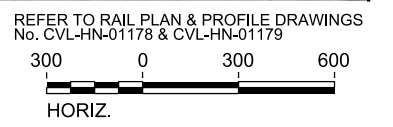
MATCHLINE SEE SHEET 404-HN-02035

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:
 1. POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
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 3. T = TEMPORARY IMPACT

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 5. IS = INTERMITTENT STREAM
 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).

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



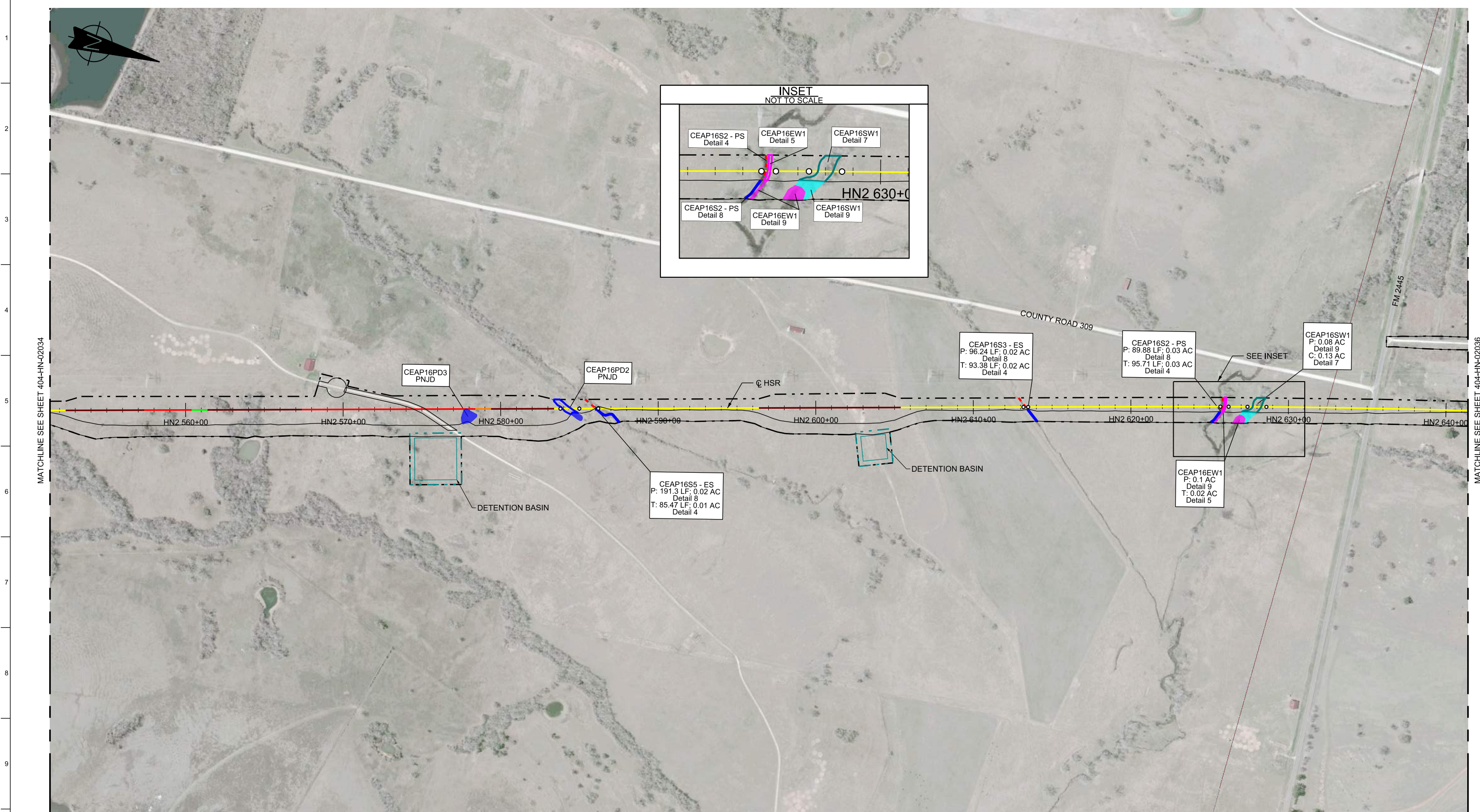
2711 North Haskell Ave., Suite 3300
 Dallas, Texas 75204
 Tel (214) 217 2200 Fax (214) 217 2201
 www.freese.com
 Texas Registered Engineering Firm: F-2144



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

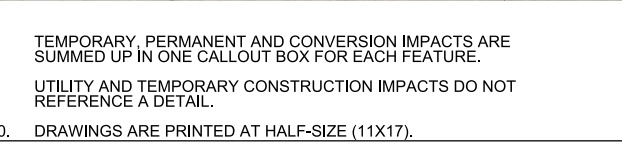
Drawing Title
HOUSTON SEGMENT
PLAN VIEW (FRA SEG. 5)
STA HN2 460+00 TO 550+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02034	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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REFER TO RAIL PLAN & PROFILE DRAWINGS
No. CVL-HN-01179, CVL-HN-01180 & CVL-HN-01181

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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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

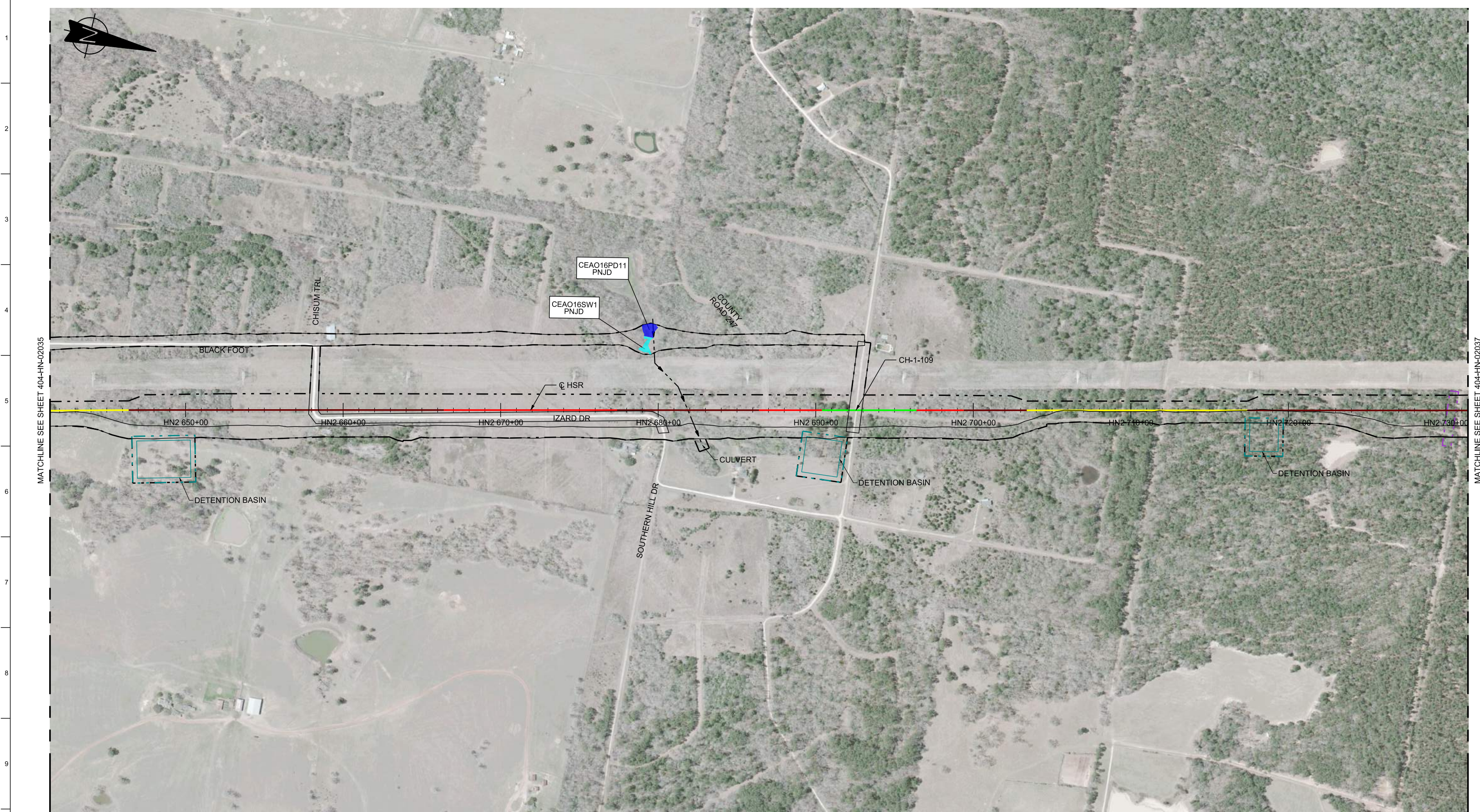
Client

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

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 550+00 TO 640+00

Scale AS SHOWN	Drawing Status NOT FOR CONSTRUCTION	
Job No 234180	Drawing No 404-HN-02035	Rev 03



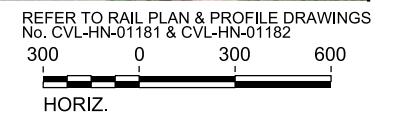
MATCHLINE SEE SHEET 404-HN-02035

MATCHLINE SEE SHEET 404-HN-02037

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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 - 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

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Texas Registered Engineering Firm: F-2144

Client

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

Drawing Title

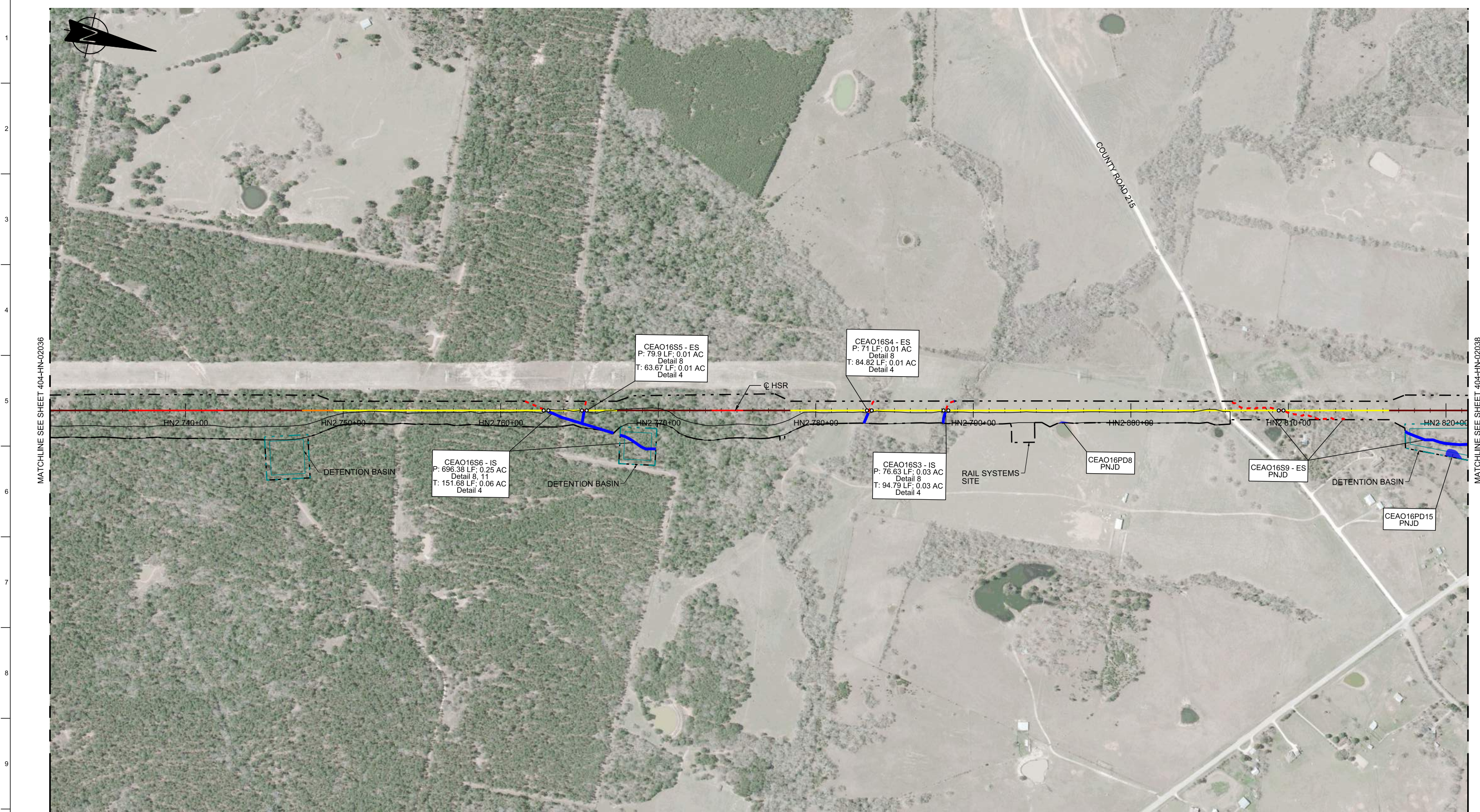
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 640+00 TO 730+00

Scale
AS SHOWN

Drawing Status
NOT FOR CONSTRUCTION

Job No	Drawing No	Rev
234180	404-HN-02036	03



MATCHLINE SEE SHEET 404-HN-02036

MATCHLINE SEE SHEET 404-HN-02038

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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 - 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-HN-01183 & CVL-HN-01184

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

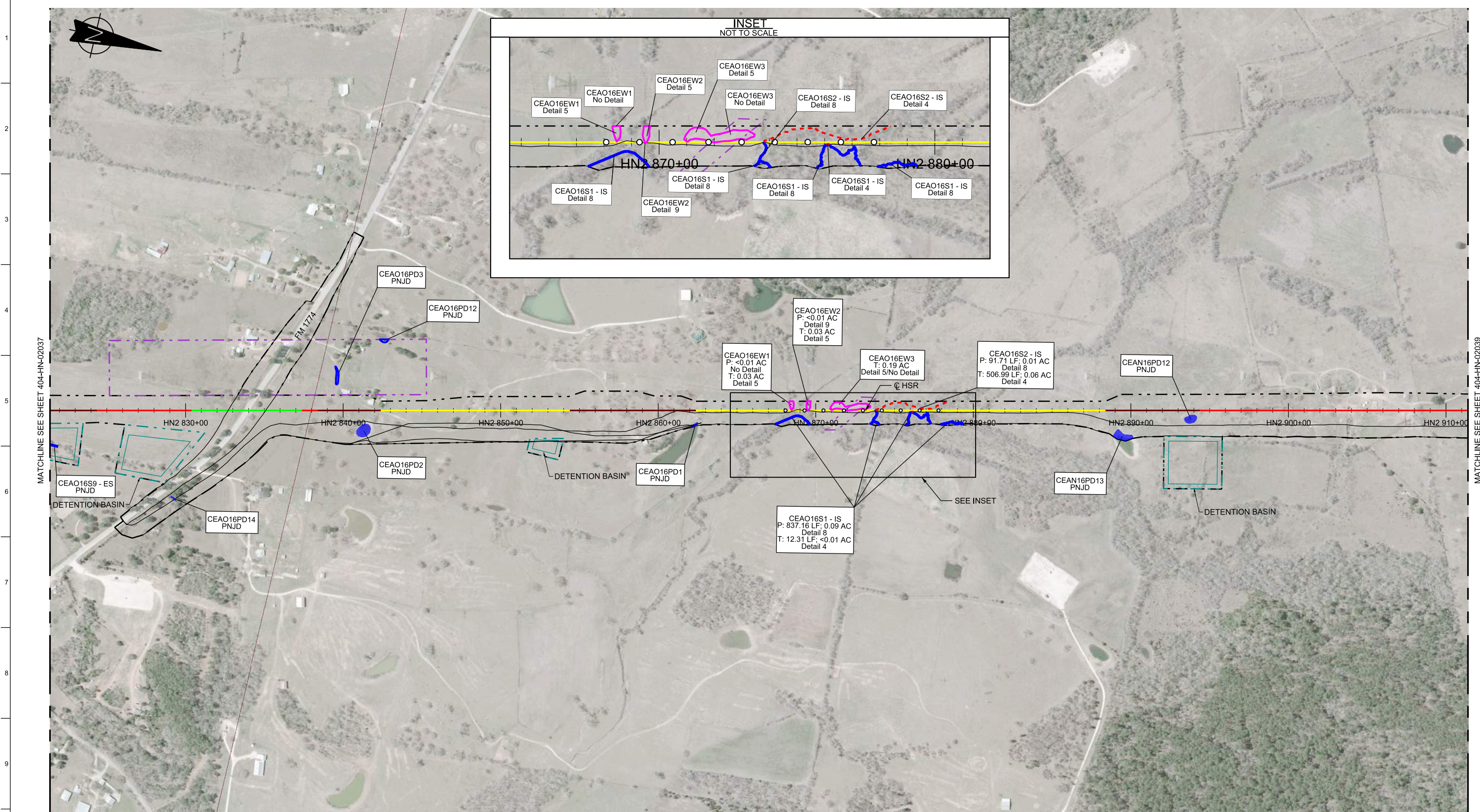


Client
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT

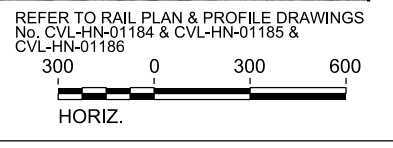
PLAN VIEW (FRA SEG. 5)
STA HN2 730+00 TO 820+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02037	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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 - UTILITY AND TEMPORARY CONSTRUCTION IMPACTS DO NOT REFERENCE A DETAIL.
 - 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

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www.arup.com
Texas Registered Engineering Firm: F-1990

FREESSE & NICHOLS

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

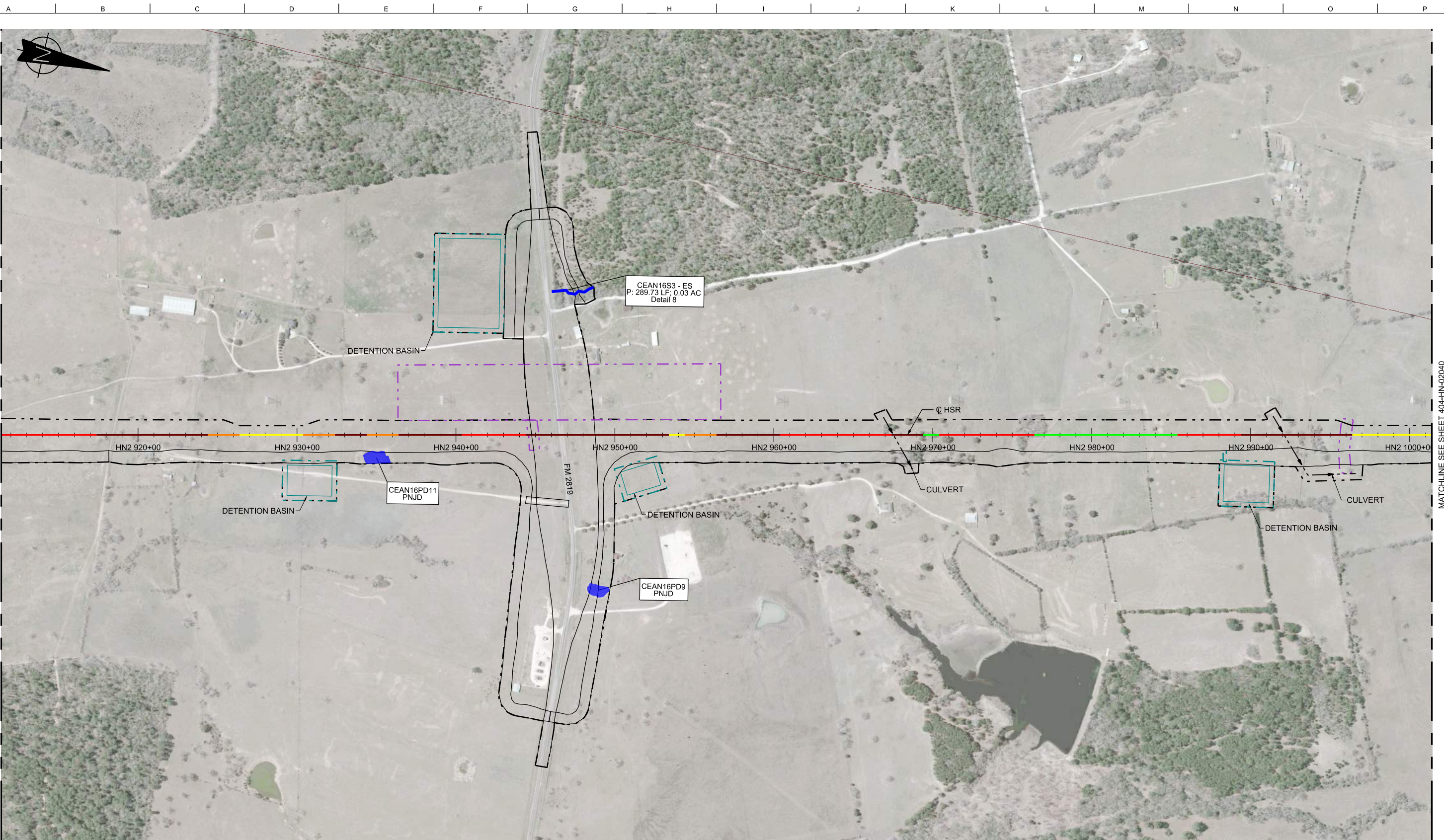
Client

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

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 820+00 TO 910+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02038	Rev 03

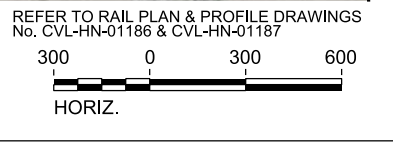


MATCHLINE SEE SHEET 404-HN-02038

MATCHLINE SEE SHEET 404-HN-02040

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).



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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Texas Registered Engineering Firm: F-2144

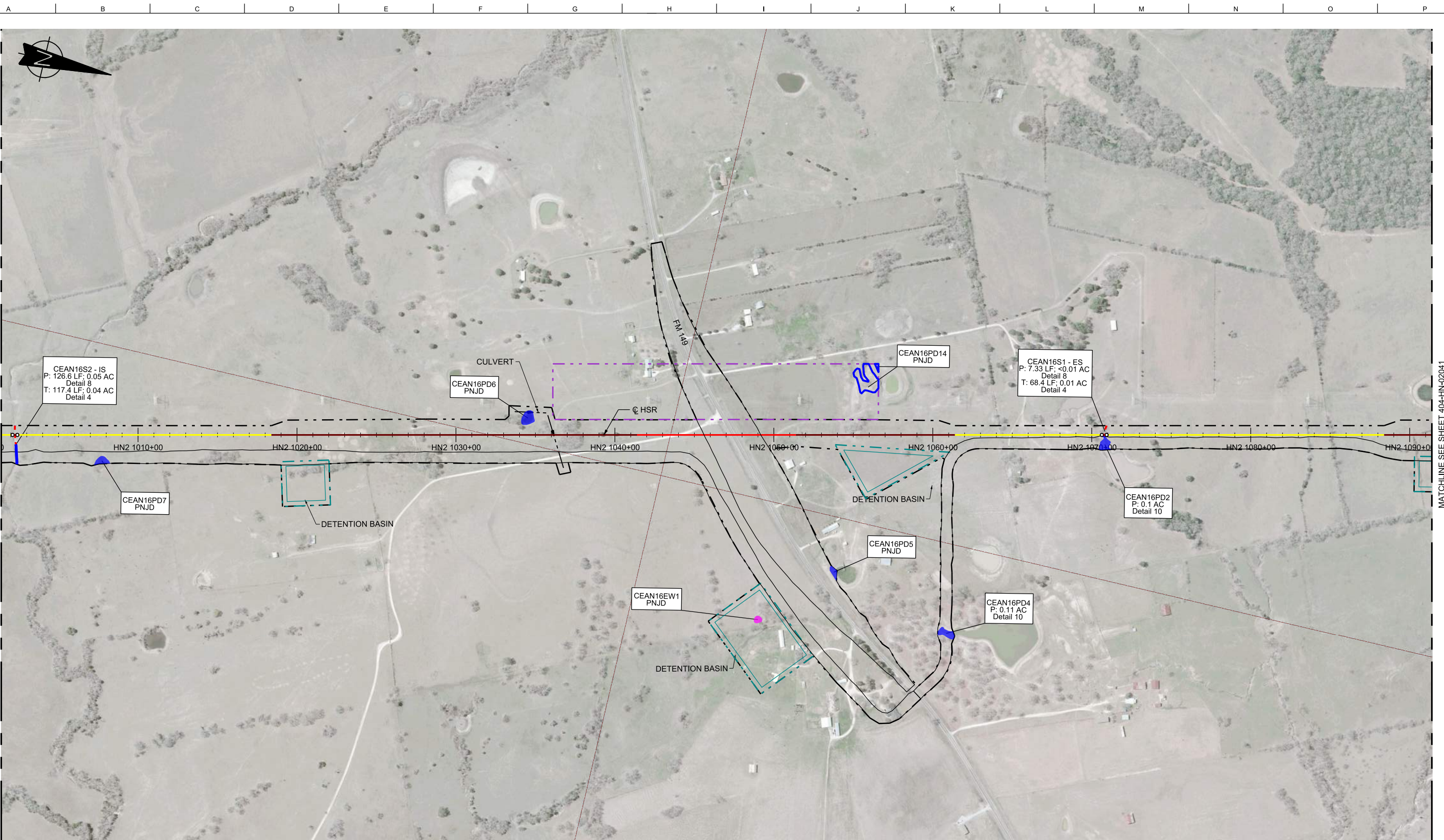
Client

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

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 910+00 TO 1000+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02039	Rev 03



MATCHLINE SEE SHEET 404-HN-02039

MATCHLINE SEE SHEET 404-HN-02041

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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 - 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-HN-01187, CVL-HN-01188 & CVL-HN-01189

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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Texas Registered Engineering Firm: F-2144

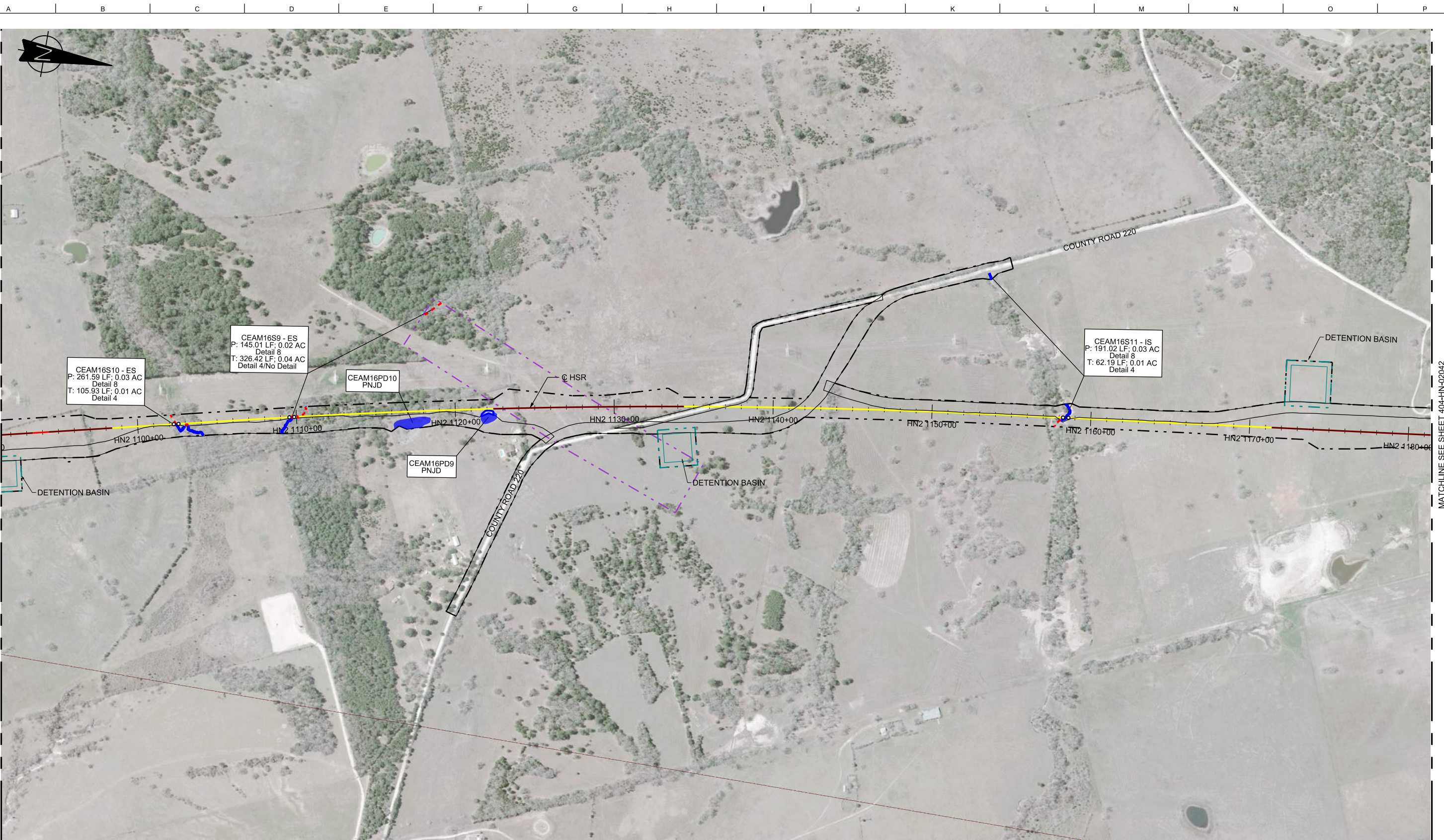
Client

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

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 1000+00 TO 1090+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02040	Rev 03

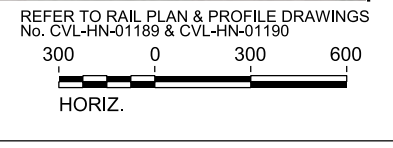


MATCHLINE SEE SHEET 404-HN-02040

MATCHLINE SEE SHEET 404-HN-02042

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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 - T = TEMPORARY IMPACT
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 - 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).



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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Texas Registered Engineering Firm: F-2144

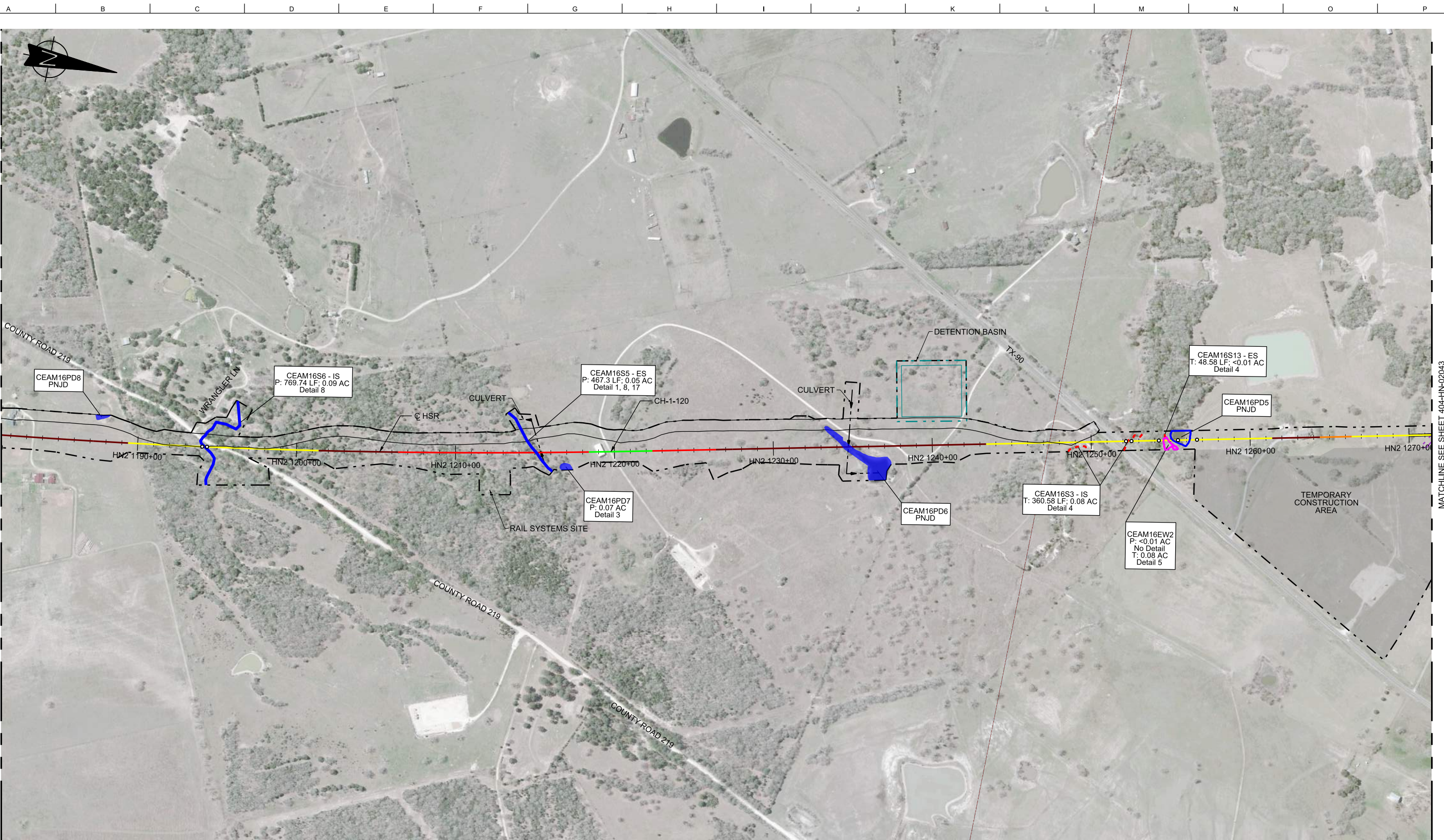
Client

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

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 1090+00 TO 1180+00

Scale AS SHOWN	Drawing Status NOT FOR CONSTRUCTION	
Job No 234180	Drawing No 404-HN-02041	Rev 03



MATCHLINE SEE SHEET 404-HN-02041

MATCHLINE SEE SHEET 404-HN-02043

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-HN-01190, CVL-HN-01191 & CVL-HN-01192

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

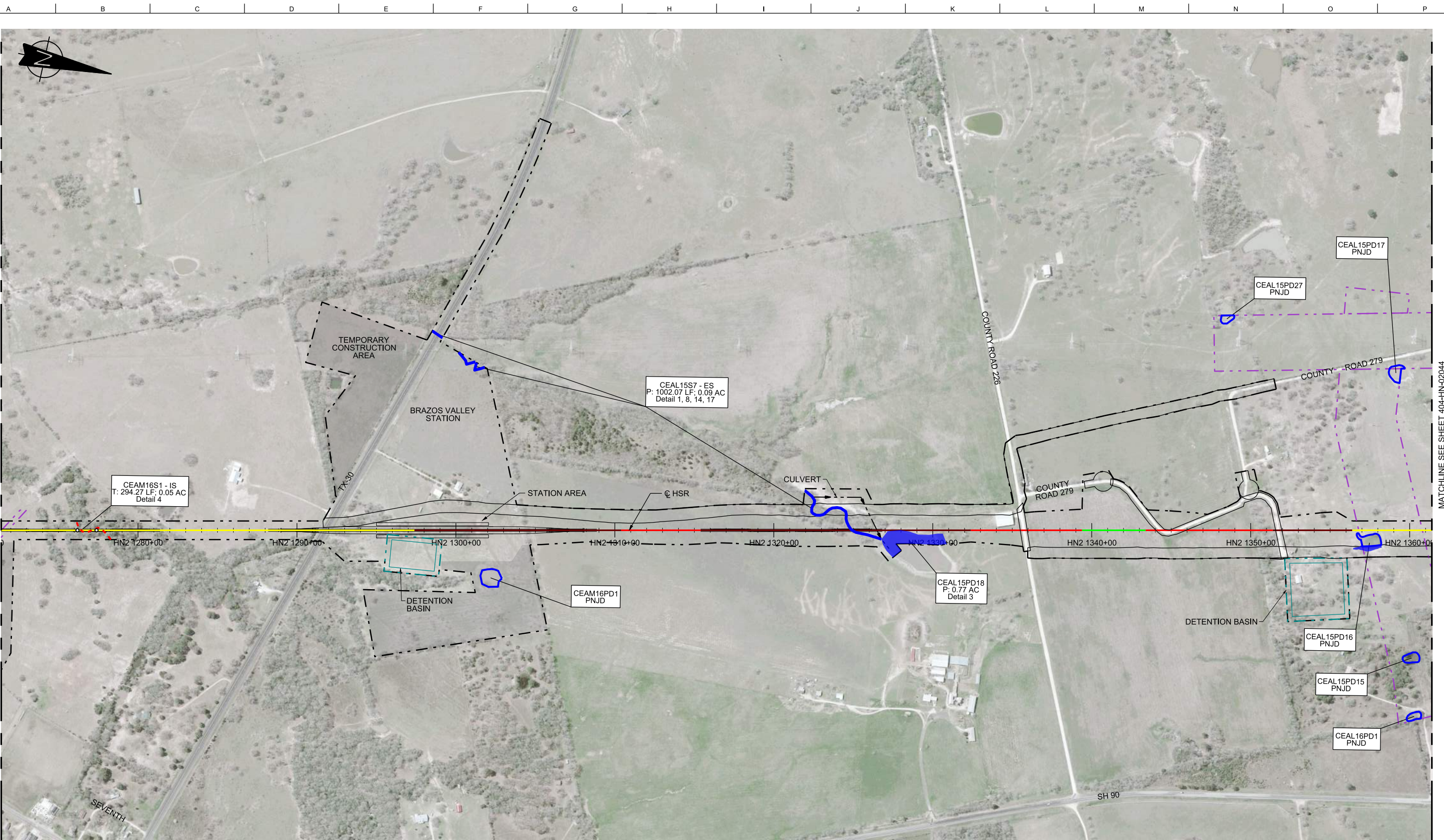


Client
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 1180+00 TO 1270+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02042	Rev 03



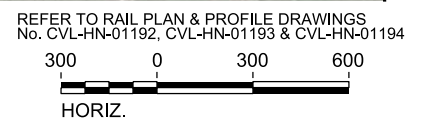
MATCHLINE SEE SHEET 404-HN-02042

MATCHLINE SEE SHEET 404-HN-02044

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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 - C = CONVERSION
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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.
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www.arup.com
Texas Registered Engineering Firm: F-1990



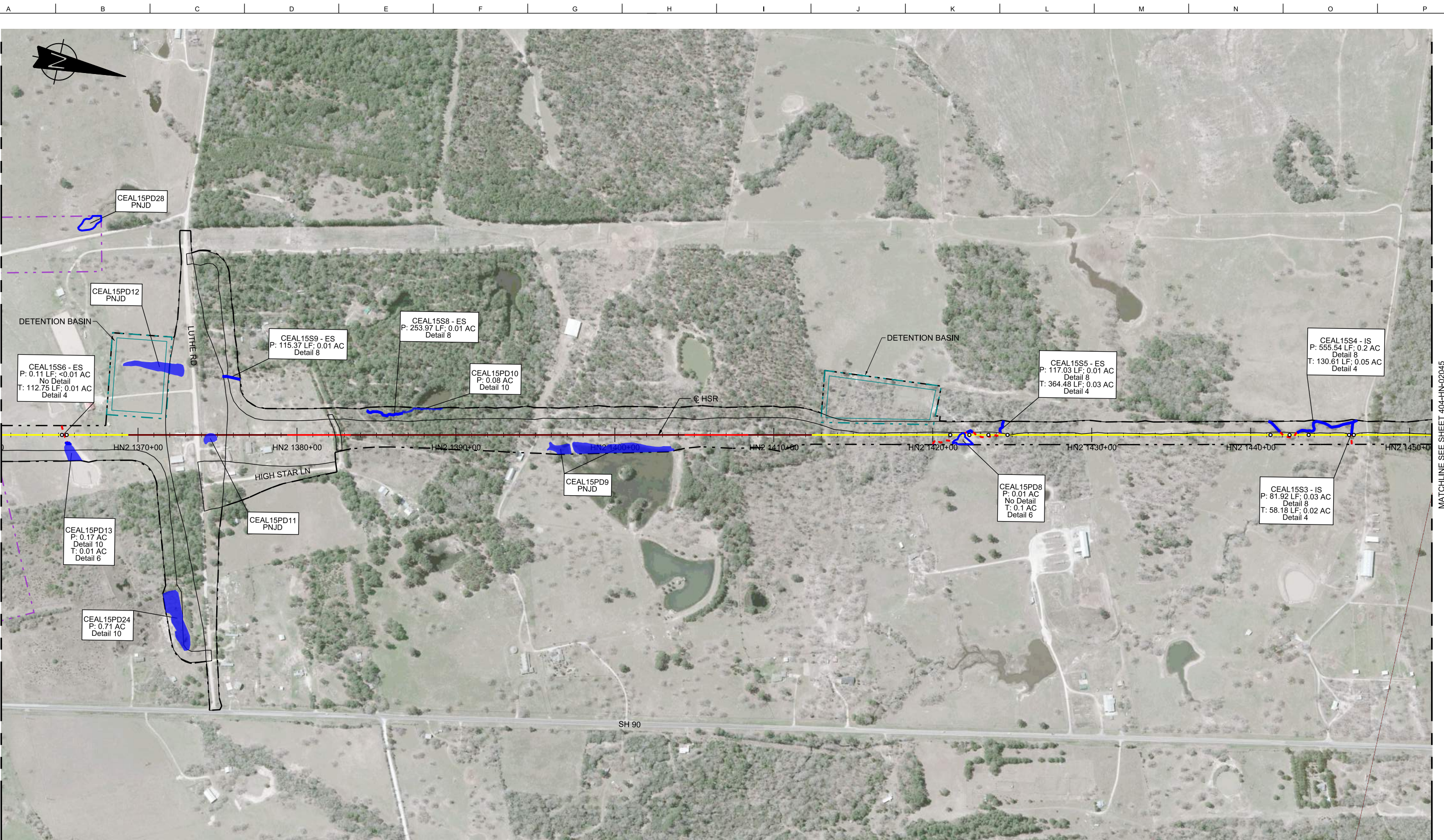
2711 North Haskell Ave., Suite 3300
Dallas, Texas 75204
Tel (214) 217 2200 Fax (214) 217 2201
www.freese.com
Texas Registered Engineering Firm: F-2144



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

Drawing Title
HOUSTON SEGMENT
PLAN VIEW (FRA SEG. 5)
STA HN2 1270+00 TO 1360+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02043	Rev 03



MATCHLINE SEE SHEET 404-HN-02043

MATCHLINE SEE SHEET 404-HN-02045

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
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 - 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-HN-01194 & CVL-HN-01195

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
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www.arup.com
Texas Registered Engineering Firm: F-1590



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

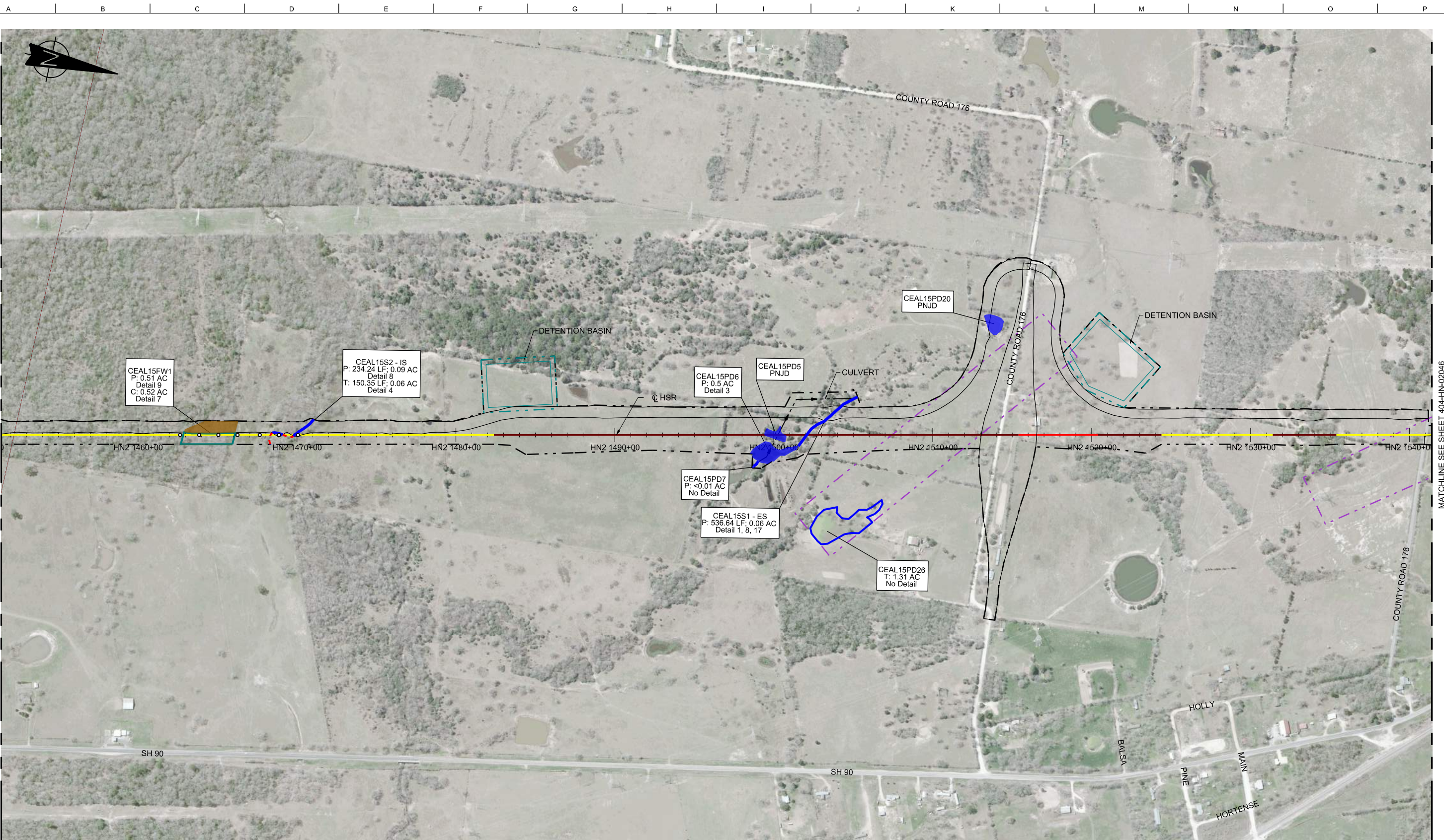


Client
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 1360+00 TO 1450+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02044	Rev 03



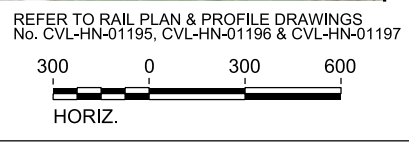
MATCHLINE SEE SHEET 404-HN-02044

MATCHLINE SEE SHEET 404-HN-02046

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
	CONVERSION WETLAND		

NOTES:
 1. POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
 2. P = PERMANENT IMPACT
 3. T = TEMPORARY IMPACT
 4. ES = EPHEMERAL STREAM
 5. IS = INTERMITTENT STREAM
 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).

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

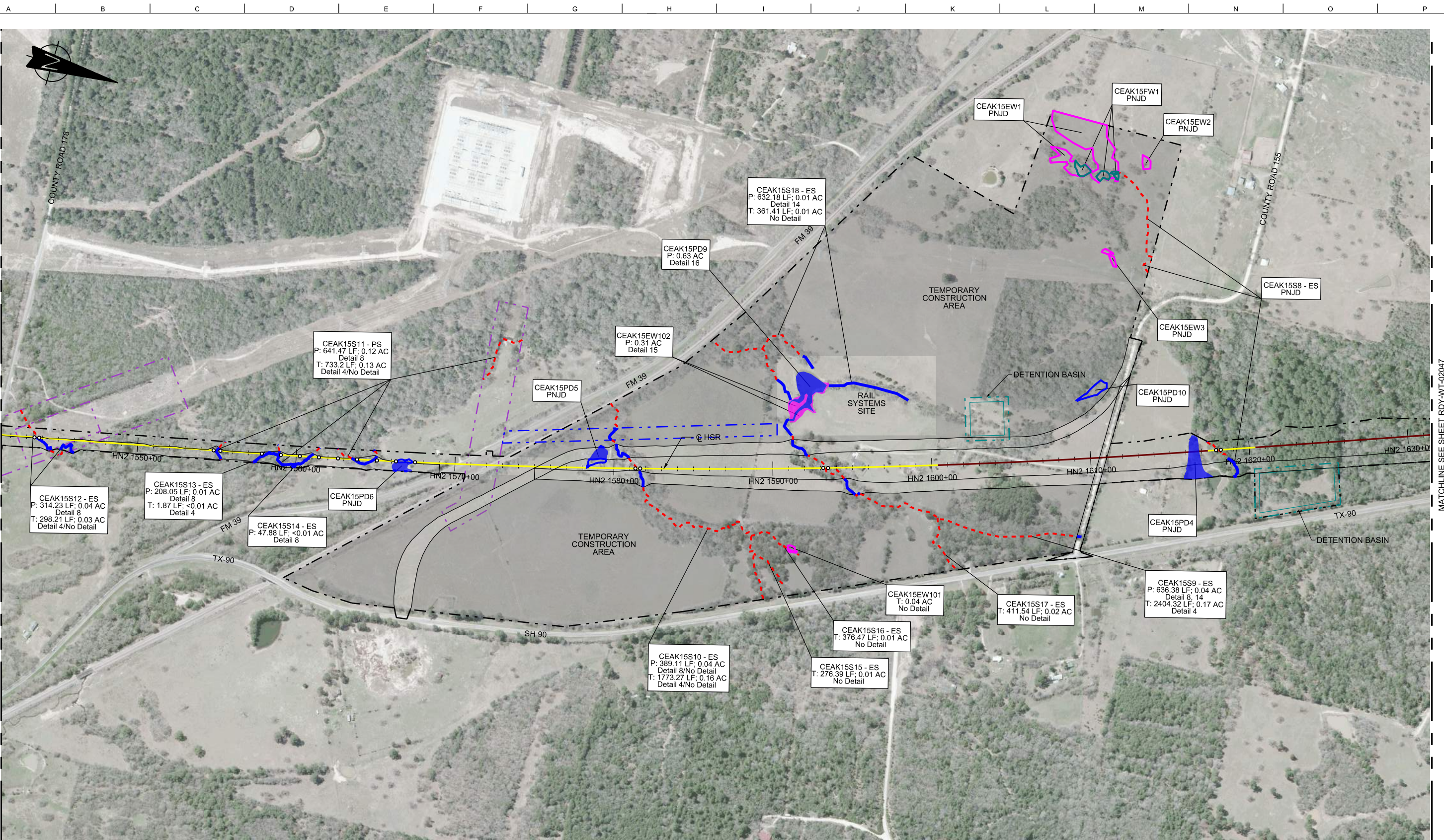
TEXAS CENTRAL
 1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT
PLAN VIEW (FRA SEG. 5)
STA HN2 1450+00 TO 1540+00

Scale
AS SHOWN

Drawing Status
NOT FOR CONSTRUCTION

Job No 234180	Drawing No 404-HN-02045	Rev 03
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MATCHLINE SEE SHEET RDY-WT-02045

MATCHLINE SEE SHEET RDY-WT-02047

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

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-HN-01197 & CVL-HN-01198

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

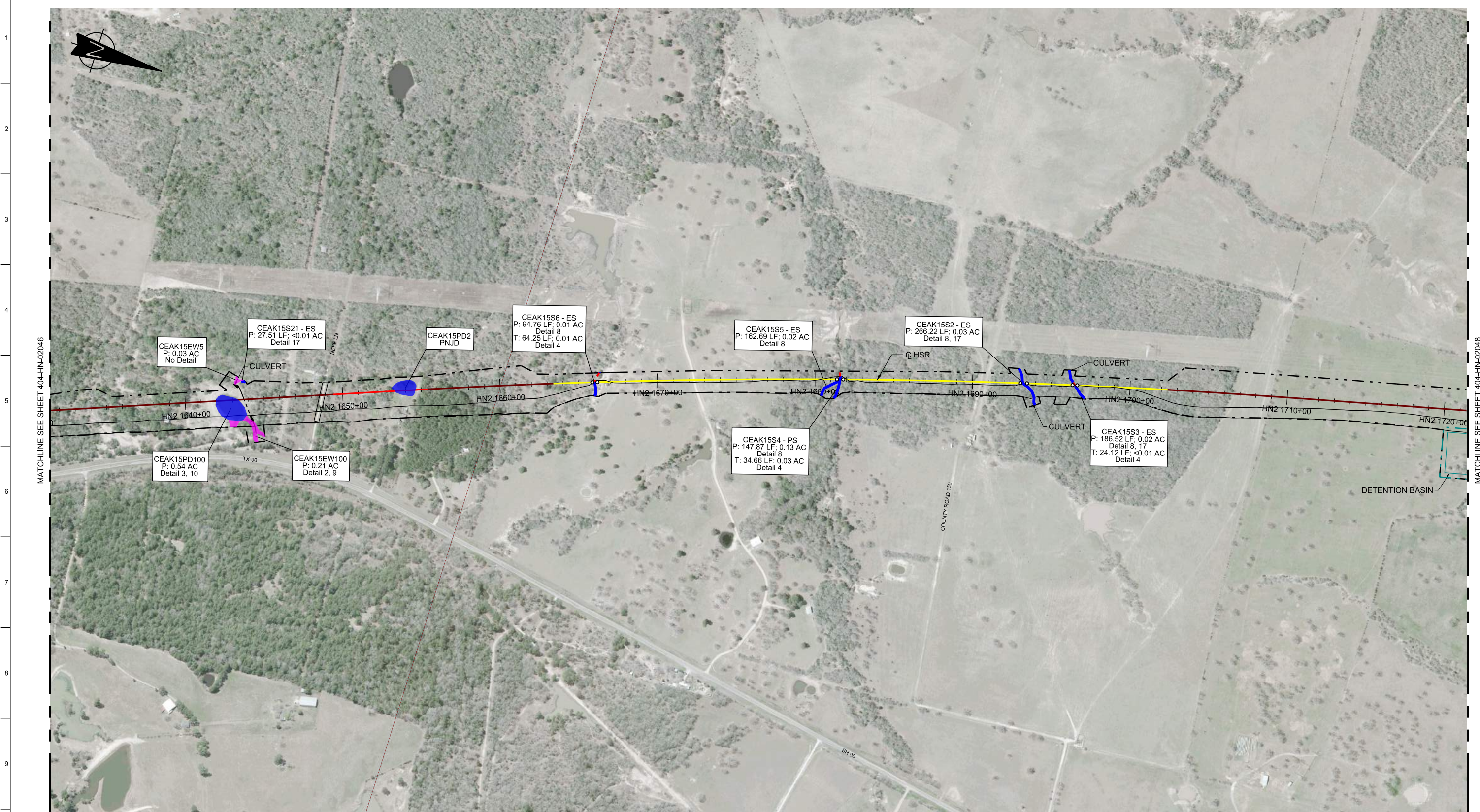


Client
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 1540+00 TO 1630+00

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02046	Rev 03



MATCHLINE SEE SHEET 404-HN-02046

MATCHLINE SEE SHEET 404-HN-02048

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:**
- POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
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 - 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-HN-01198, CVL-HN-01199 & CVL-HN-01200

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
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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

TEXAS CENTRAL

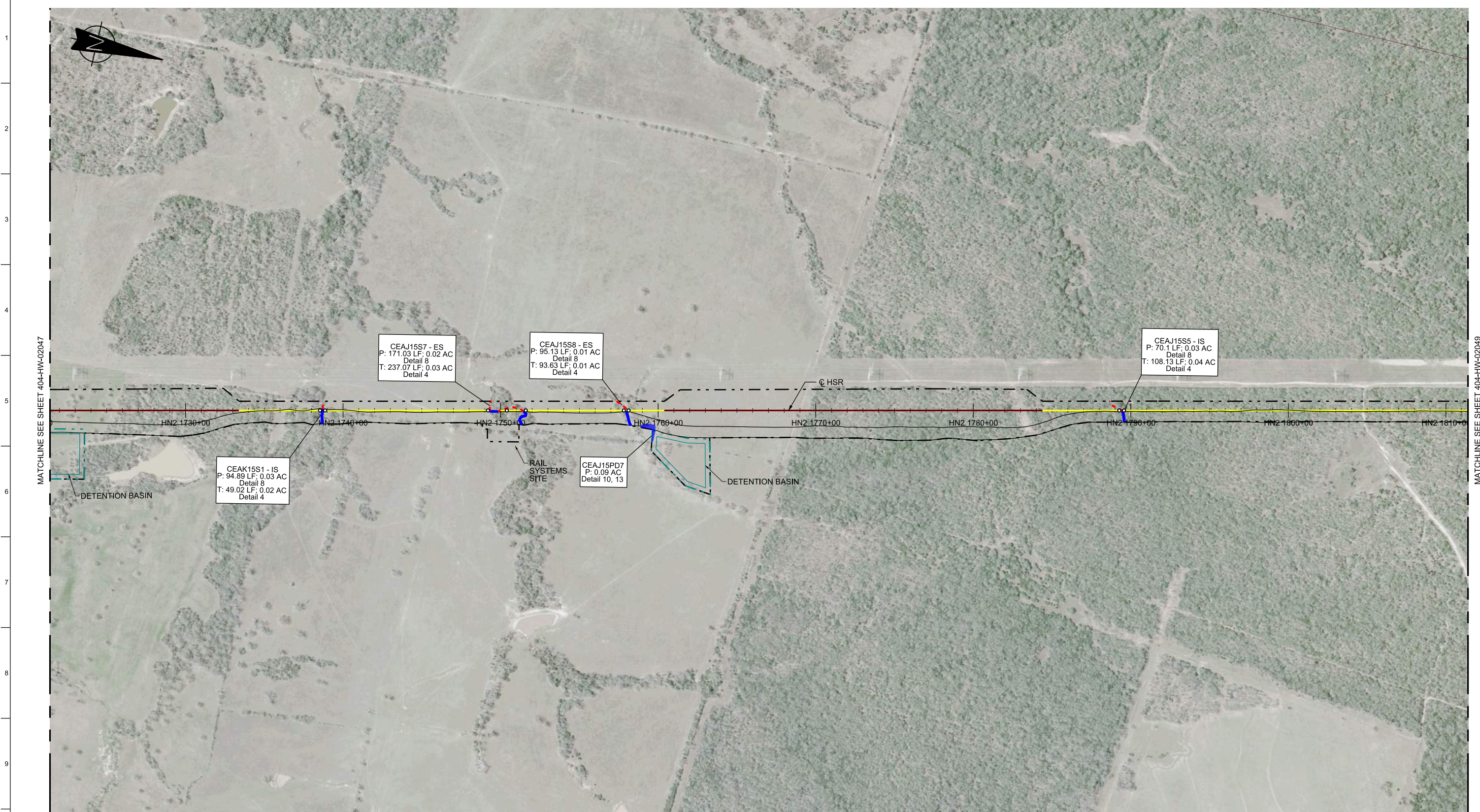
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title

HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 1630+00 TO 1720+00

Scale	AS SHOWN		
Drawing Status	NOT FOR CONSTRUCTION		
Job No	Drawing No	Rev	
234180	404-HN-02047	03	



MATCHLINE SEE SHEET 404-HW-02047

MATCHLINE SEE SHEET 404-HW-02049

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:
 1. POTENTIALLY NON-JURISDICTIONAL WATERBODIES DO NOT INCLUDE IMPACT QUANTITIES.
 2. P = PERMANENT IMPACT
 3. T = TEMPORARY IMPACT
 4. ES = EPHEMERAL STREAM
 5. IS = INTERMITTENT STREAM
 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).

PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS
 No. CVL-HN-01200, CVL-HN-01201 & CVL-HN-01202

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

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

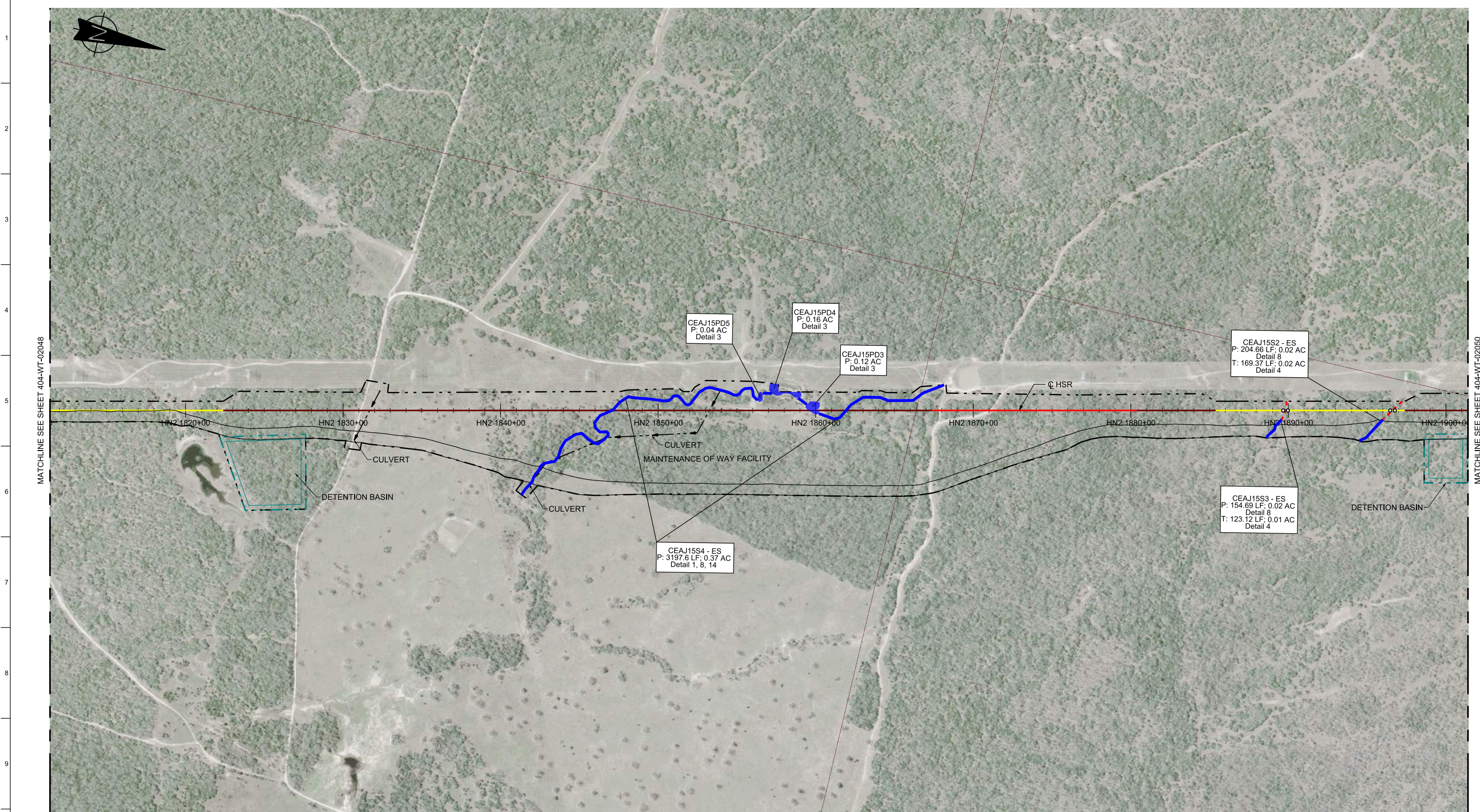
Client

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

Drawing Title
HOUSTON SEGMENT
 PLAN VIEW (FRA SEG. 5)
 STA HN2 1720+00 TO 1810+00

Scale
 AS SHOWN
 Drawing Status
NOT FOR CONSTRUCTION

Job No	Drawing No	Rev
234180	404-HN-02048	03



MATCHLINE SEE SHEET 404-WT-02048

MATCHLINE SEE SHEET 404-WT-02050

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-HN-01202 & CVL-HN-01203

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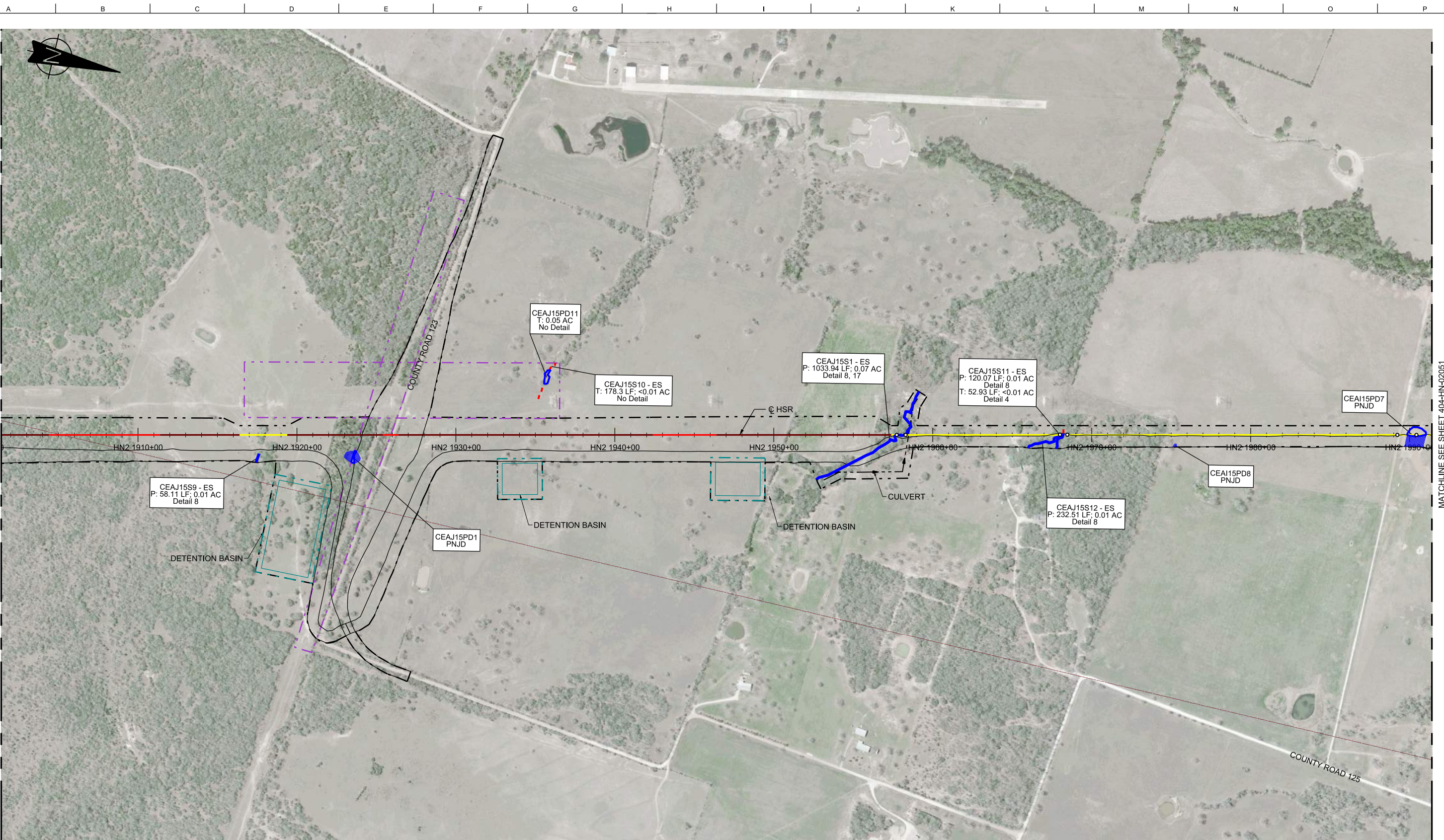
FREES & NICHOLS
 2711 North Haskell Ave., Suite 3300
 Dallas, Texas 75204
 Tel (214) 217 2200 Fax (214) 217 2201
 www.frees.com
 Texas Registered Engineering Firm: F-2144

Client

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

Drawing Title
HOUSTON SEGMENT
PLAN VIEW (FRA SEG. 5)
STA HN2 1810+00 TO 1900+00

Scale
 AS SHOWN
 Drawing Status
NOT FOR CONSTRUCTION
 Job No. 234180 Drawing No. 404-HN-02049 Rev. 03



MATCHLINE SEE SHEET 404-HN-02049

MATCHLINE SEE SHEET 404-HN-02051

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.
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PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS
No. CVL-HN-01203, CVL-HN-01204 & CVL-HN-01205

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

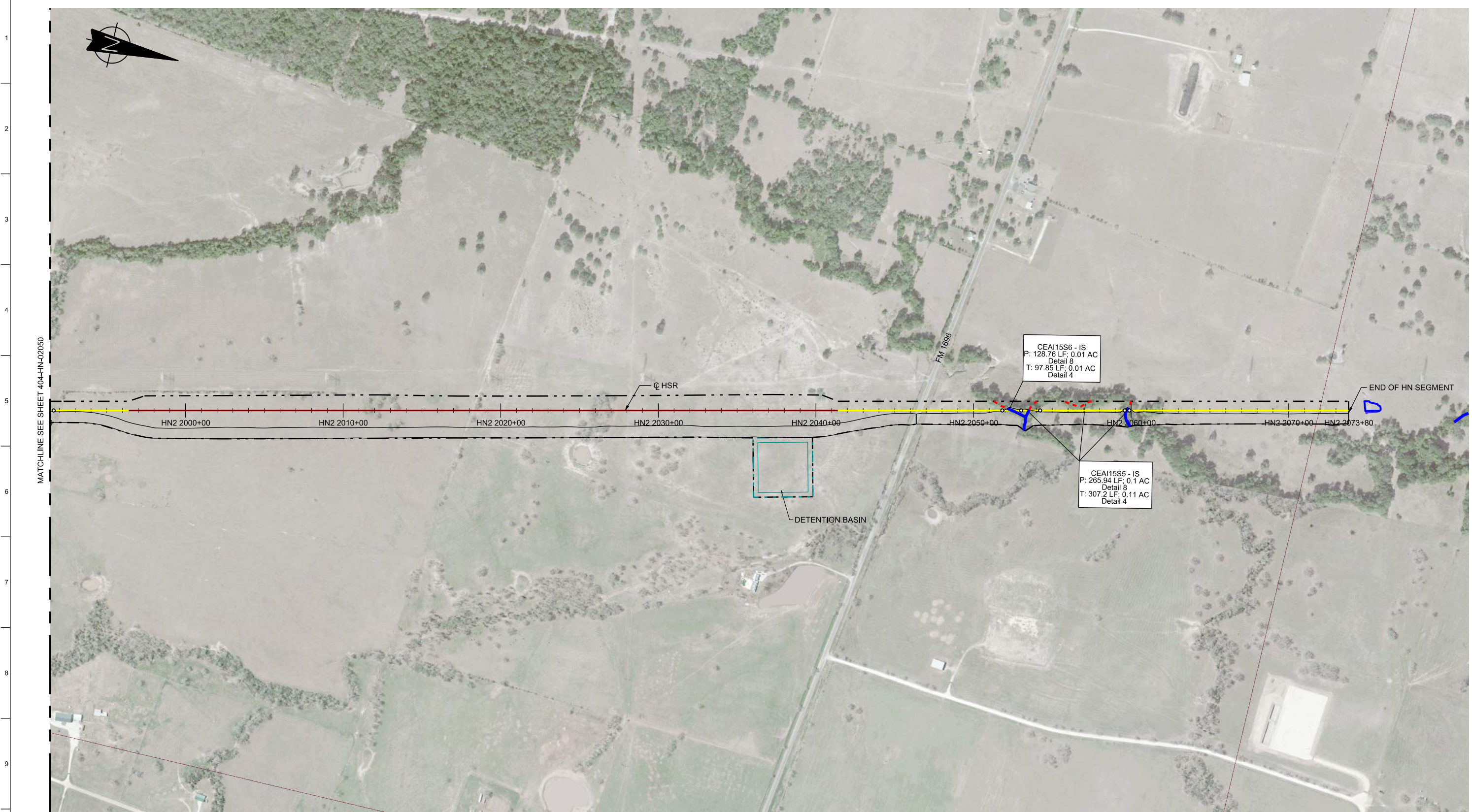


Client
1409 South Lamar Street, Suite 1022, Dallas, Texas 75215

Drawing Title
HOUSTON SEGMENT

**PLAN VIEW (FRA SEG. 5)
STA HN2 1900+00 TO 1990+00**

Scale AS SHOWN		
Drawing Status NOT FOR CONSTRUCTION		
Job No 234180	Drawing No 404-HN-02050	Rev 03



MATCHLINE SEE SHEET 404-HN-02050

PLOT BY: NYPWICS01S PLOT TIME: 10/13/2017 03:30 PM

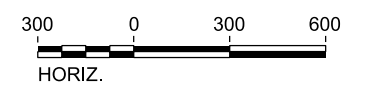
RAIL CONSTRUCTION TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	OTHER
CUT	EMERGENT WETLAND	EMERGENT WETLAND	LIMITS OF DISTURBANCE (CONSTRUCTION FOOTPRINT)
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PLAN

REFER TO RAIL PLAN & PROFILE DRAWINGS No. CVL-HN-01205 & CVL-HN-01206



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.frees.com
Texas Registered Engineering Firm: F-2144

Client

TEXAS CENTRAL

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

Drawing Title

HOUSTON SEGMENT

PLAN VIEW (FRA SEG. 5)
STA HN2 1990+00 TO 2073+80

Scale
AS SHOWN

Drawing Status
NOT FOR CONSTRUCTION

Job No	Drawing No	Rev
234180	404-HN-02051	03