

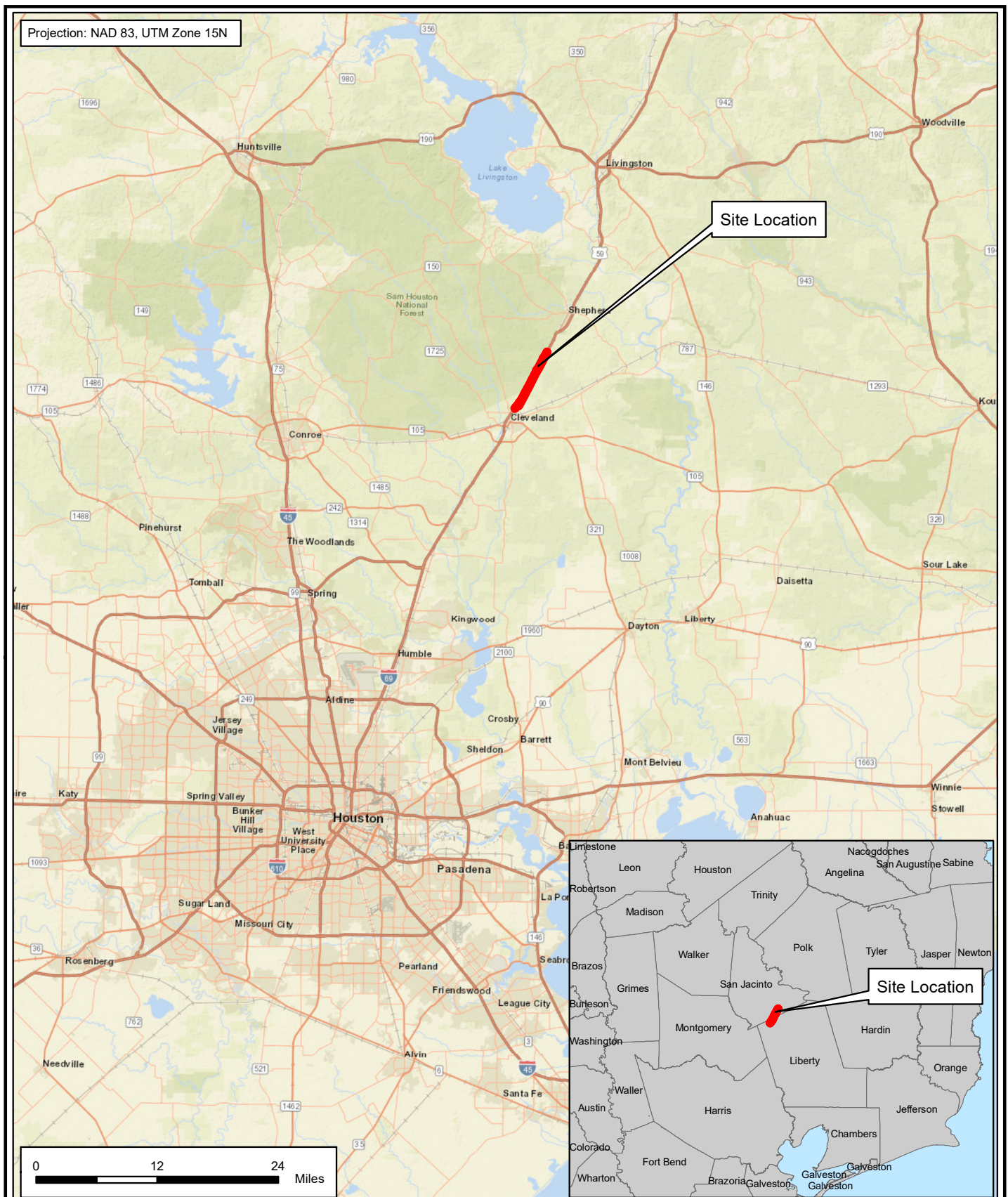


EXHIBIT 1 - VICINITY MAP



Project #: CSJ 0177-02-057 and 0177-03-099
For: TxDOT
Location: US 59 from FM 2914 to SL 573
San Jacinto and Liberty Counties, Texas



Delineation
Boundary



Texas Department of Transportation

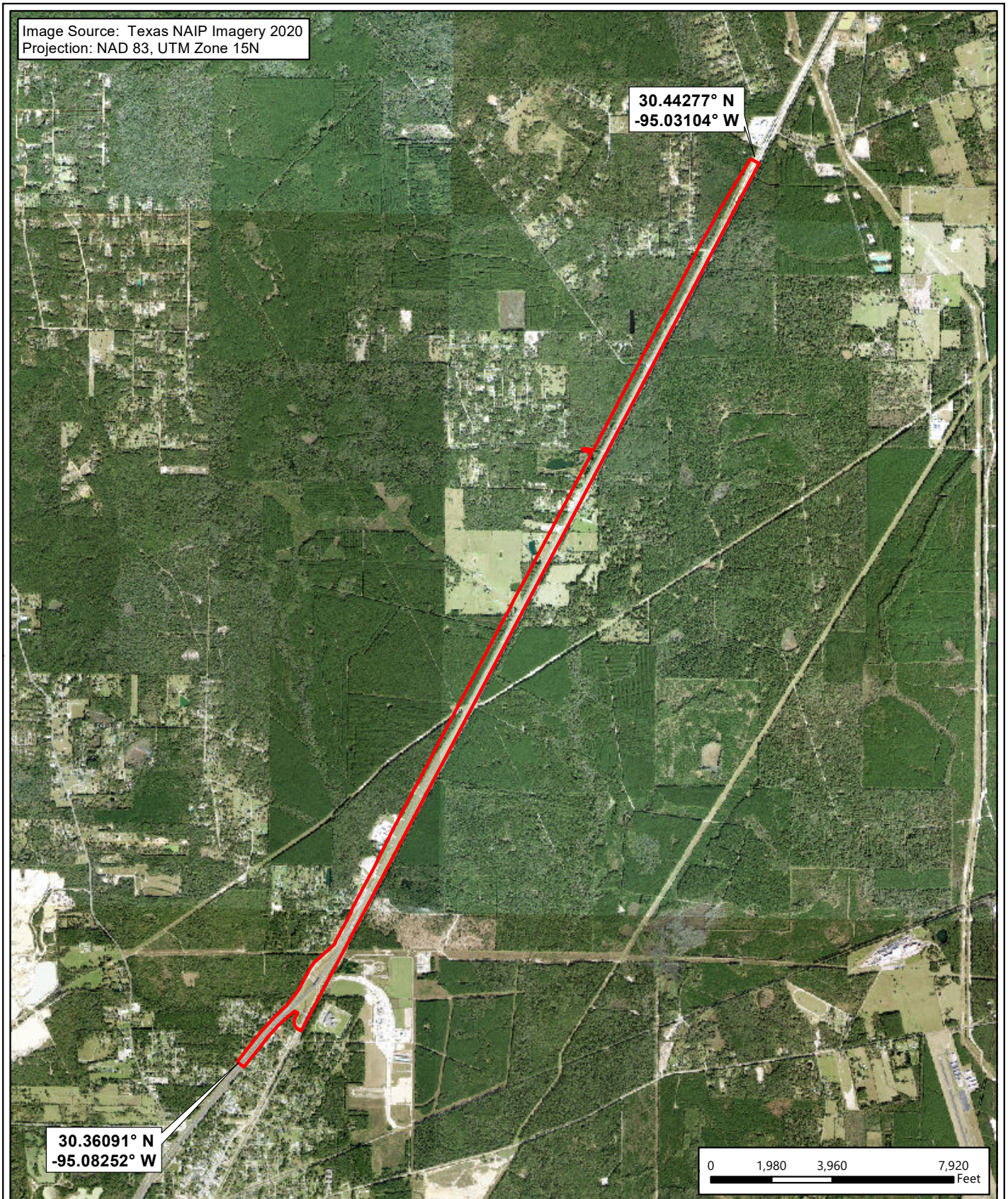


EXHIBIT 2 - SITE LOCATION MAP



Project #: CSJ 0177-02-057 and 0177-03-099
For: TxDOT
Location: US 59 from FM 2914 to SL 573
San Jacinto and Liberty Counties, Texas



Delineation
Boundary



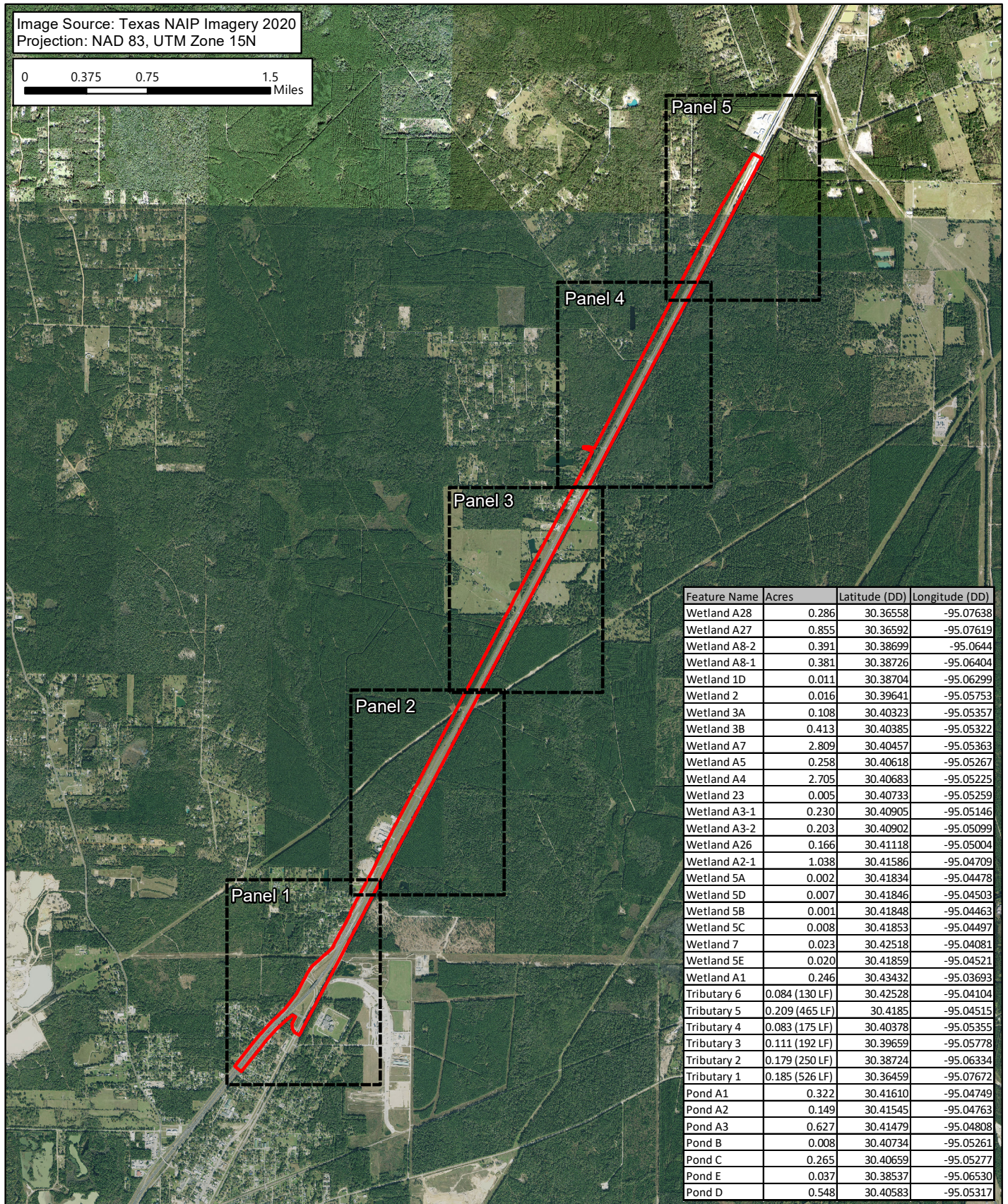


EXHIBIT 8 - WETLAND DETERMINATION AND CLASSIFICATION- OVERVIEW



Project #: CSJs 0177-02-057 and 0177-03-099
For: TxDOT
Location: US 59 from FM 2914 to SL 573
Liberty & San Jacinto Counties, Texas

Overview



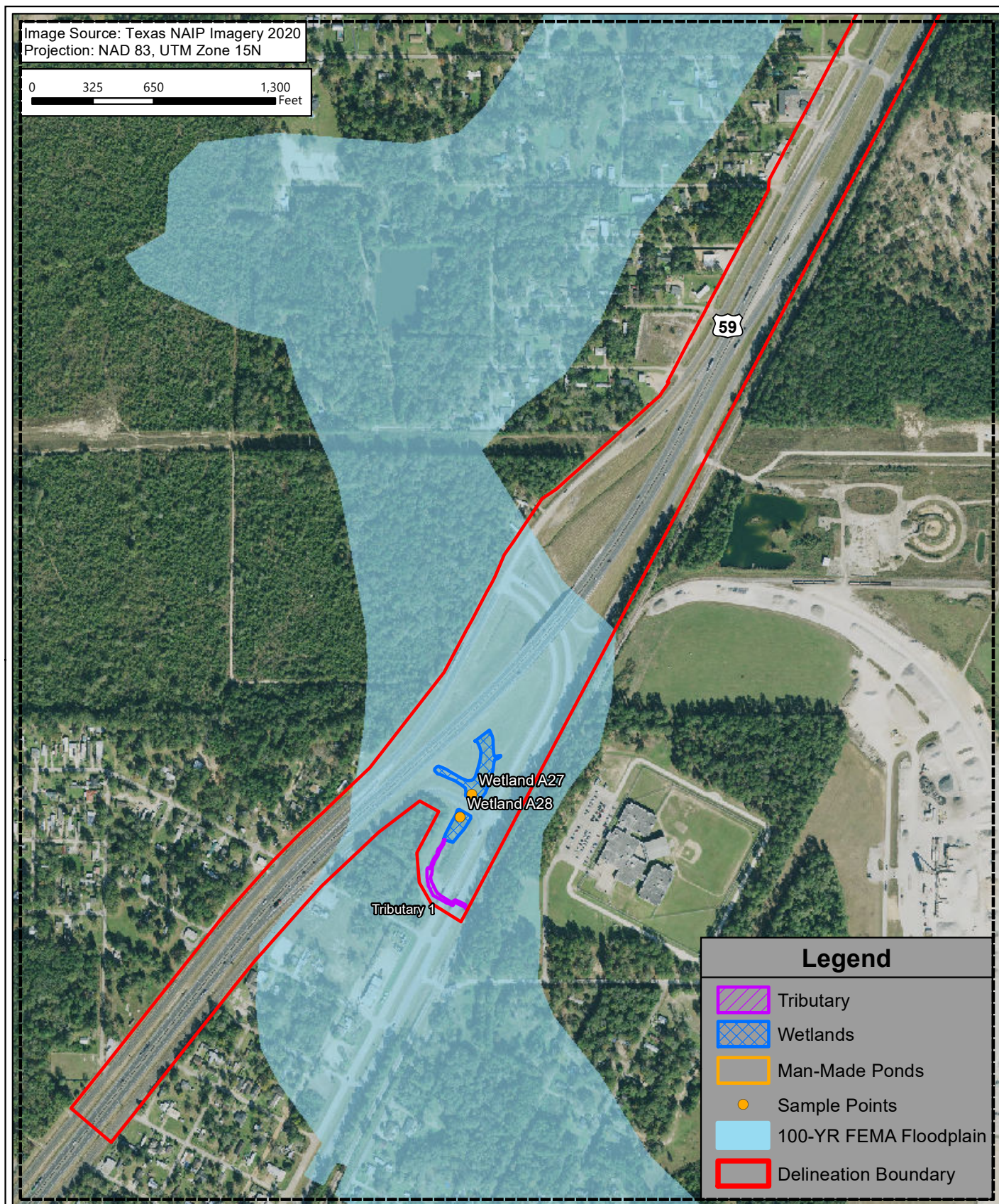


EXHIBIT 8 - WETLAND DETERMINATION AND CLASSIFICATION



Project #: CSJs 0177-02-057 and 0177-03-099
For: US 59 from FM 2914 to SL 573
Location: TxDOT
Liberty & San Jacinto Counties, Texas

PANEL
1



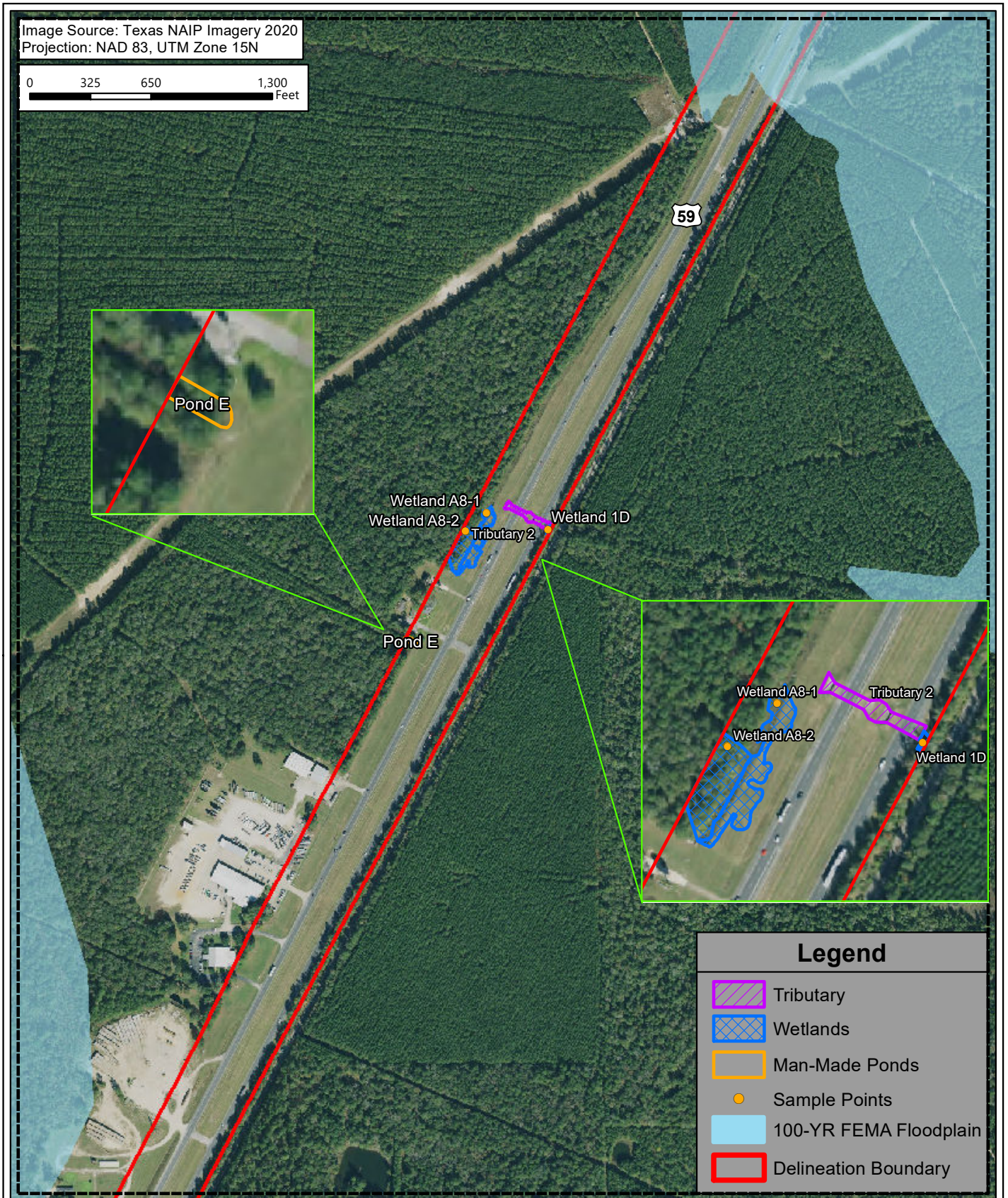


EXHIBIT 8 - WETLAND DETERMINATION AND CLASSIFICATION

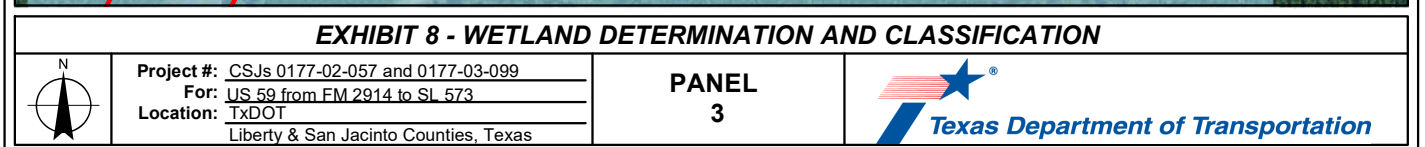


Project #: CSJs 0177-02-057 and 0177-03-099
For: US 59 from FM 2914 to SL 573
Location: TxDOT
Liberty & San Jacinto Counties, Texas

PANEL
2



Texas Department of Transportation



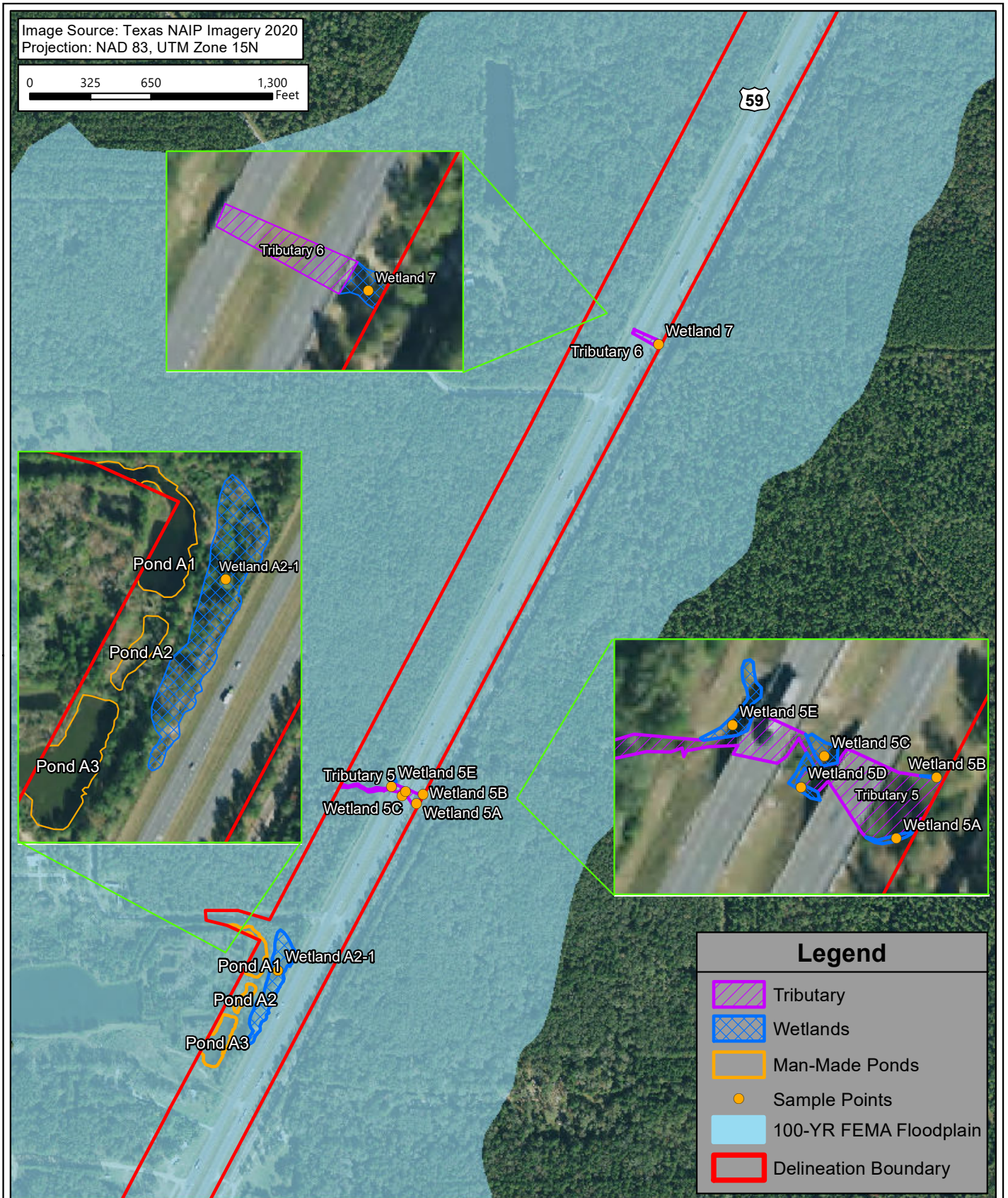


EXHIBIT 8 - WETLAND DETERMINATION AND CLASSIFICATION



Project #: CSJs 0177-02-057 and 0177-03-099
For: US 59 from FM 2914 to SL 573
Location: TxDOT
Liberty & San Jacinto Counties, Texas

Panel
4



Texas Department of Transportation

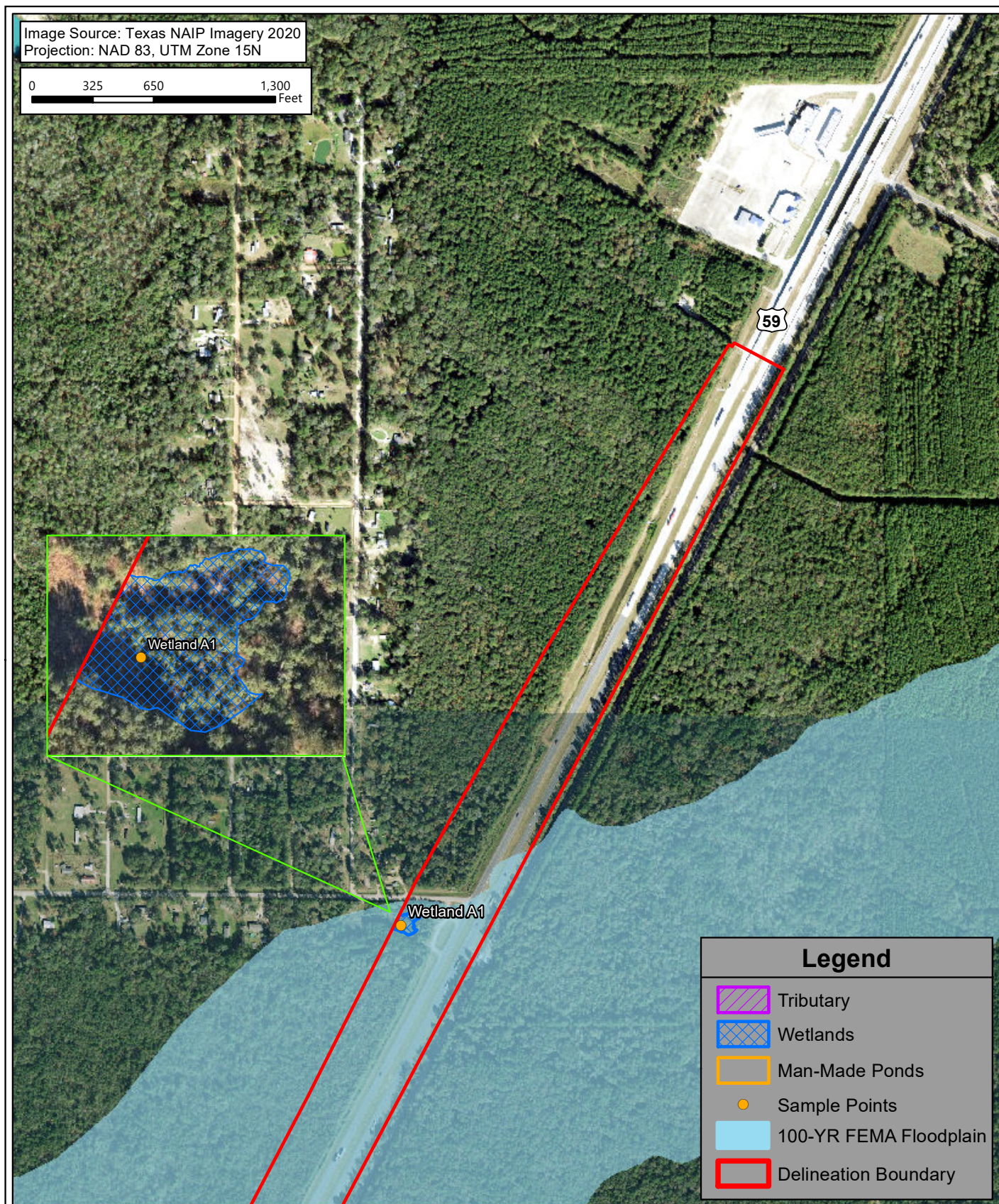


EXHIBIT 8 - WETLAND DETERMINATION AND CLASSIFICATION



Project #: CSJs 0177-02-057 and 0177-03-099
For: US 59 from FM 2914 to SL 573
Location: TxDOT
Liberty & San Jacinto Counties, Texas

Panel
5



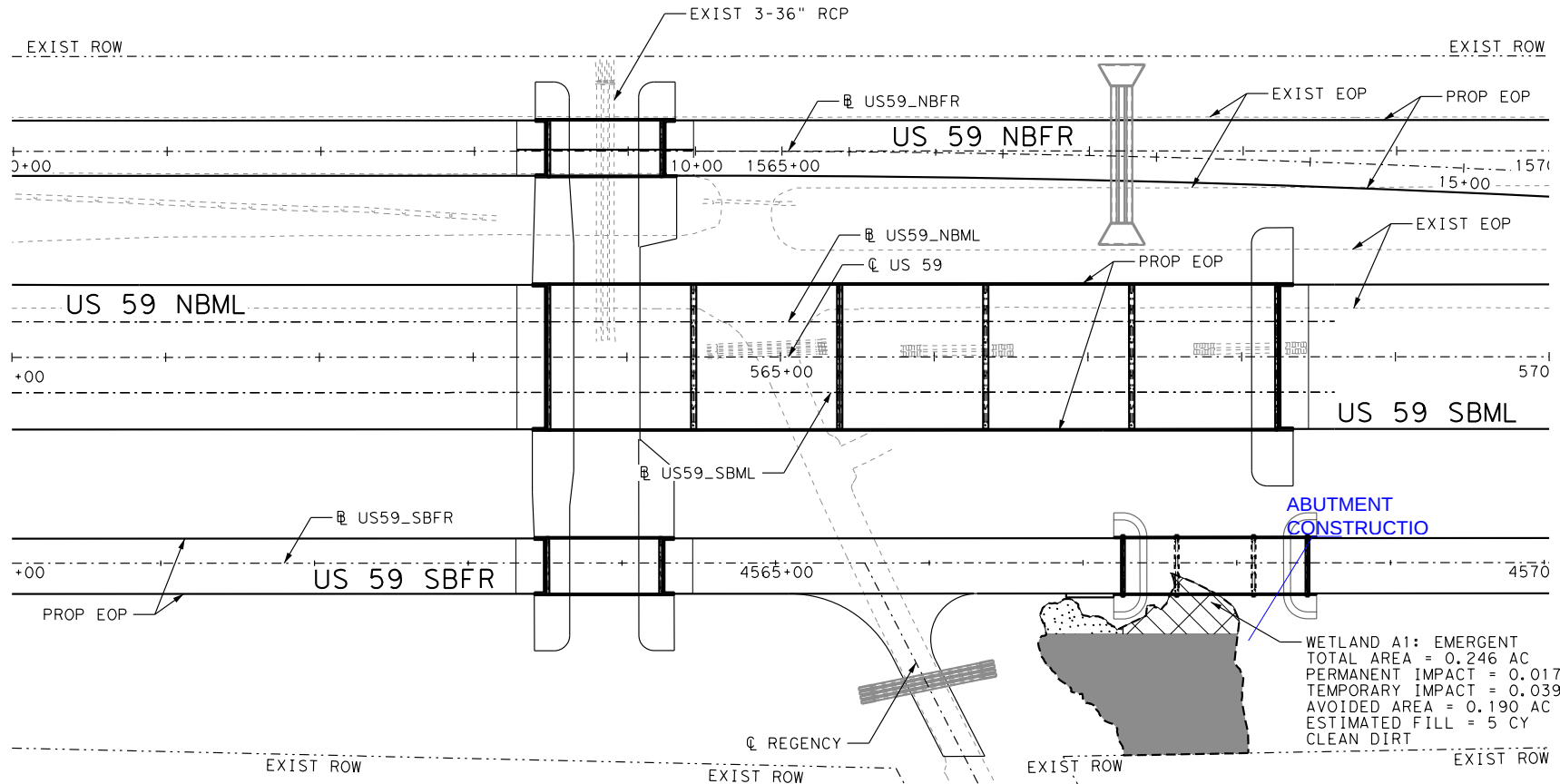
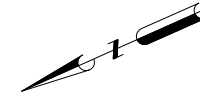
Texas Department of Transportation

WETLAND A1: SUMMARY
TOTAL AREA = 0.246 AC
PERMANENT IMPACT = 0.017 AC
TEMPORARY IMPACT = 0.039 AC
AVOIDED AREA = 0.190 AC
ESTIMATED FILL = 5 CY
CLEAN DIRT

Panel 5 on Wetland

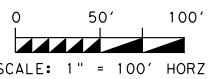
LEGEND

- AVOIDED AREA
- TEMPORARY IMPACT
- PERMANENT IMPACT
- WETLAND BOUNDARY



WETLAND A1: EMERGENT
TOTAL AREA = 0.246 AC
PERMANENT IMPACT = 0.017 AC
TEMPORARY IMPACT = 0.039 AC
AVOIDED AREA = 0.190 AC
ESTIMATED FILL = 5 CY
CLEAN DIRT

SHEET 1 OF 37



IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 560+00 TO STA 570+00)

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

TRIBUTARY 6: SUMMARY
OHWM WIDTH = 30 LF
DEPTH BELOW OHWM = 0.4 LF
TOTAL AREA = 0.084 AC
LENGTH IN PROJECT = 130 LF
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.084 AC
TEMPORARY IMPACT LENGTH = 130 LF
AVOIDED AREA = 0 AC
AVOIDED AREA LENGTH = 0 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

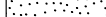
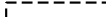
WETLAND 7: SUMMARY
TOTAL AREA = 0.023 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.023 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WORK CONSISTS OF REMOVING 6-5'X5' MBC
AND WING WALLS AND REPLACE WITH BRIDGES.
NO PERMANENT IMPACT ARE ANTICIPATED.
TEMPORARY IMPACT ARE PROPOSED DUE TO
THE REMOVAL OF EXISTING STRUCTURES.

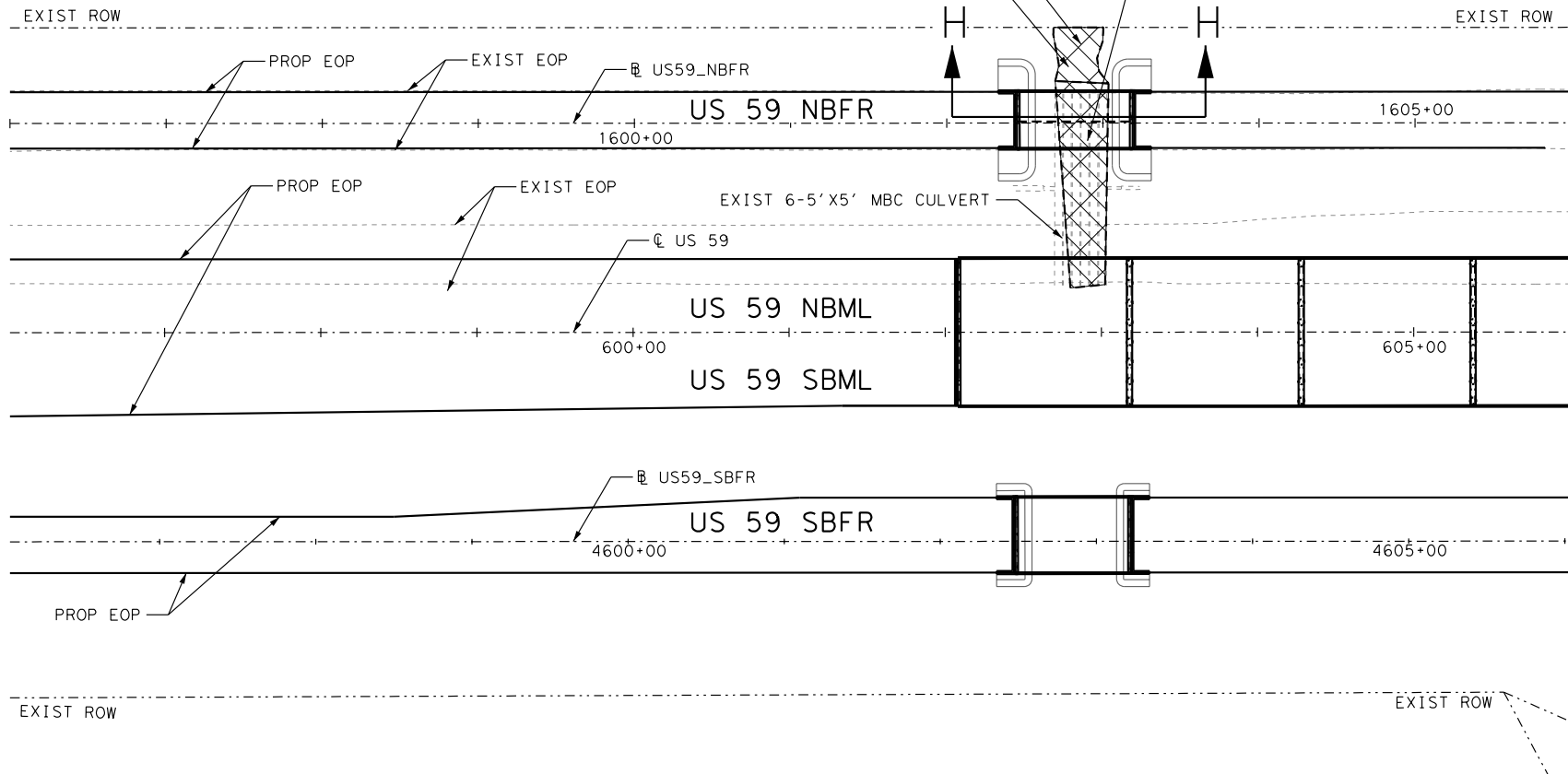
WETLAND 7: EMERGENT
TOTAL AREA = 0.023 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.023 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

Panel 4 on Wetland

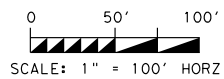
LEGEND

-  AVOIDED AREA
-  TEMPORARY IMPACT
-  PERMANENT IMPACT
-  WETLAND BOUNDARY

TRIBUTARY 6: EPHEMERAL
OHWM WIDTH = 30 LF
TOTAL AREA = 0.084 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.084 AC
TEMPORARY IMPACT LENGTH = 130 LF
AVOIDED AREA = 0 AC
AVOIDED AREA LENGTH = 0 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT



SHEET 2 OF 37



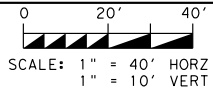
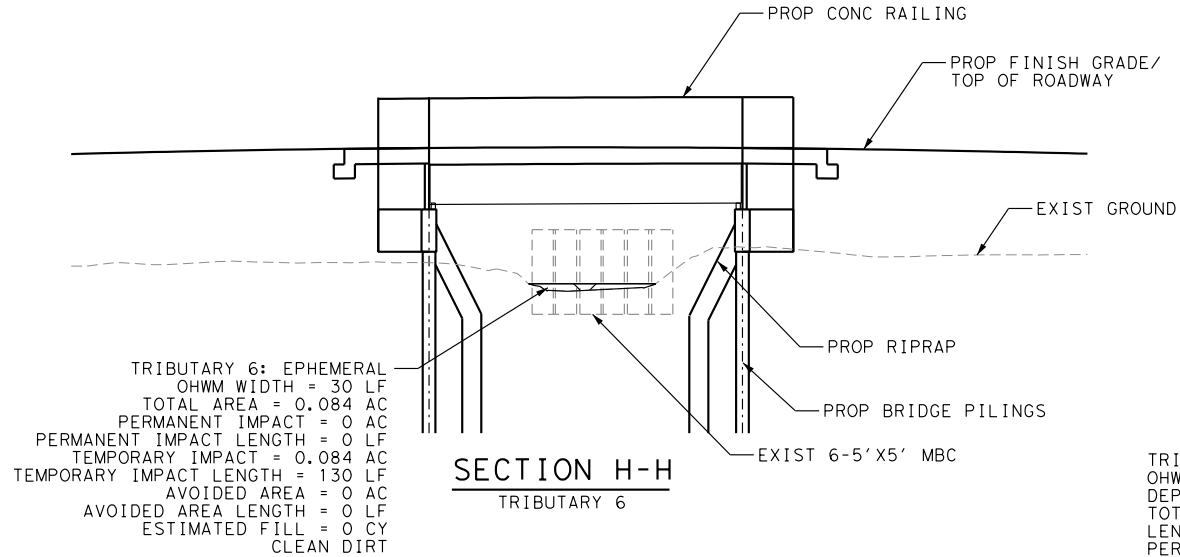
IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 596+00 TO STA 606+00)

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

Panel 4 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

SHEET 3 OF 37

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

WETLAND 5A: SUMMARY
TOTAL AREA = 0.002 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.001 AC
AVOIDED AREA = 0.001 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND 5B: SUMMARY
TOTAL AREA = 0.001 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.001 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND 5B: EMERGENT
TOTAL AREA = 0.001 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.001 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND 5A: EMERGENT
TOTAL AREA = 0.002 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.001 AC
AVOIDED AREA = 0.001 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND 5C: SUMMARY
TOTAL AREA = 0.008 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.008 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

LEGEND
[Solid Grey] AVOIDED AREA
[Cross-hatch] TEMPORARY IMPACT
[Dotted] PERMANENT IMPACT
[Dashed Line] WETLAND BOUNDARY

Panel 4 on Wetland

WETLAND 5C: EMERGENT
TOTAL AREA = 0.008 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.008 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND 5E: EMERGENT
TOTAL AREA = 0.020 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.020 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WORK CONSISTS OF REMOVING EXISTING 90 LF BRIDGES AND REPLACING WITH LONGER BRIDGES AND ADDING A SBFR BRIDGE. NO PERMANENT IMPACTS ARE ANTICIPATED. TEMPORARY IMPACTS ARE PROPOSED WITHIN THE LIMITS OF THE EXISTING BRIDGE FOR THE REMOVAL OF BRIDGE PILINGS.

TRIBUTARY 5: PERENNIAL
OHWM WIDTH = 30 LF
TOTAL AREA = 0.209 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.170 AC
TEMPORARY IMPACT LENGTH = 338 LF
AVOIDED AREA = 0.039 AC
AVOIDED AREA LENGTH = 127 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

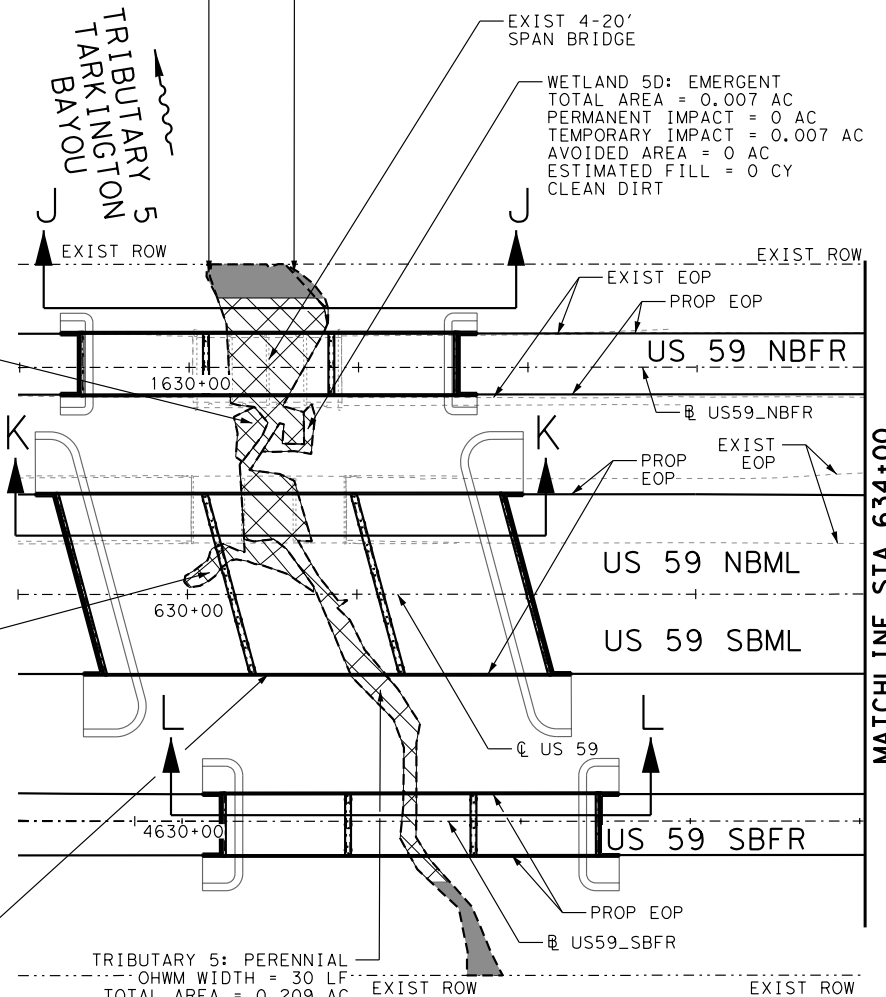
EXIST 4-20' SPAN BRIDGE

WETLAND 5D: EMERGENT
TOTAL AREA = 0.007 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.007 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

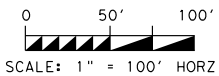
WETLAND 5D: SUMMARY
TOTAL AREA = 0.007 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.007 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND 5E: SUMMARY
TOTAL AREA = 0.020 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.020 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

TRIBUTARY 5: SUMMARY
OHWM WIDTH = 30 LF
DEPTH BELOW OHWM = 1.4 LF
LENGTH IN PROJECT = 465 LF
TOTAL AREA = 0.209 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 AC
TEMPORARY IMPACT = 0.170 AC
TEMPORARY IMPACT LENGTH = 338 LF
AVOIDED AREA = 0.039 AC
AVOIDED AREA LENGTH = 127 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT



MATCHLINE STA 634+00



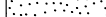
IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 629+00 TO STA 634+00)

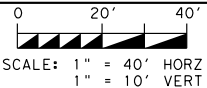
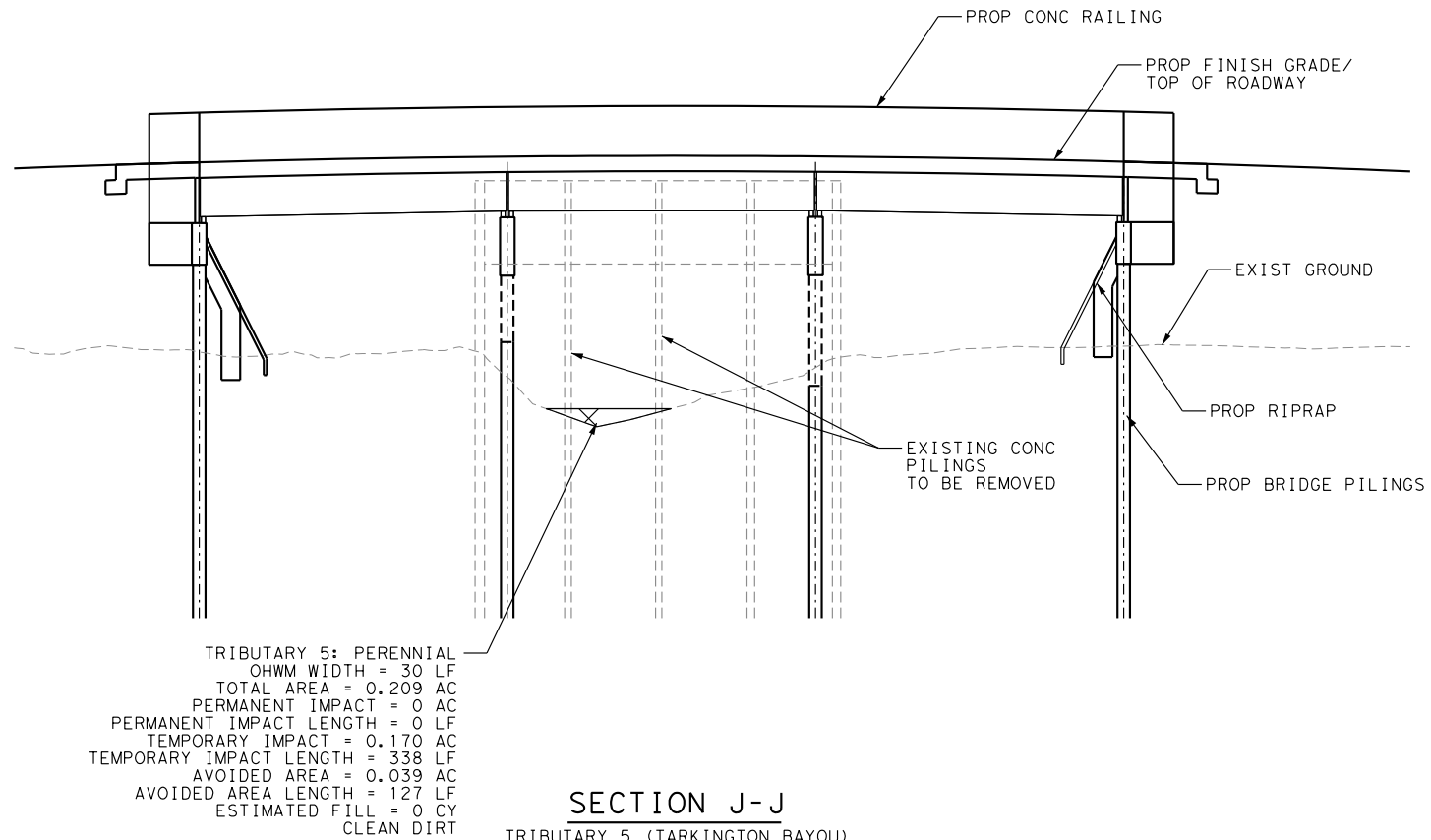
FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

SHEET 4 OF 37

Panel 4 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

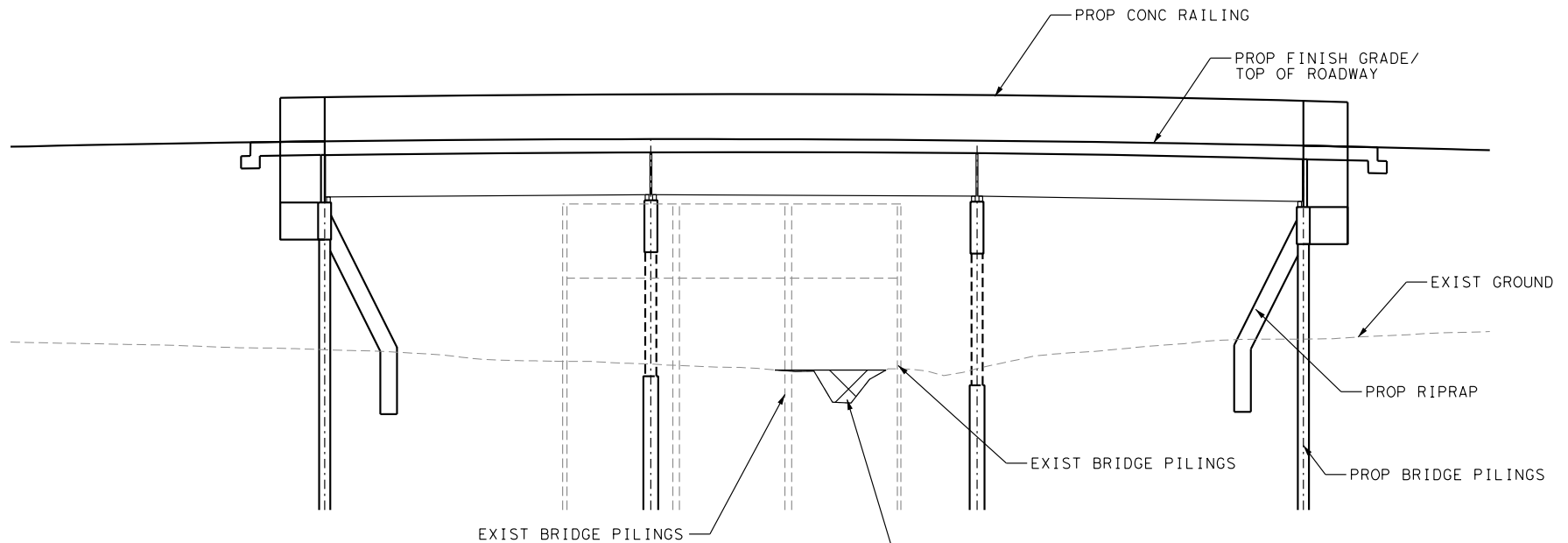
SHEET 5 OF 37

STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

Panel 4 on Wetland

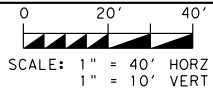
LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



SECTION K-K
TRIBUTARY 5 (TARKINGTON BAYOU)

TRIBUTARY 5: PERENNIAL
OHWM WIDTH = 30 LF
TOTAL AREA = 0.209 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.170 AC
TEMPORARY IMPACT LENGTH = 338 LF
AVOIDED AREA = 0.039 AC
AVOIDED AREA LENGTH = 127 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

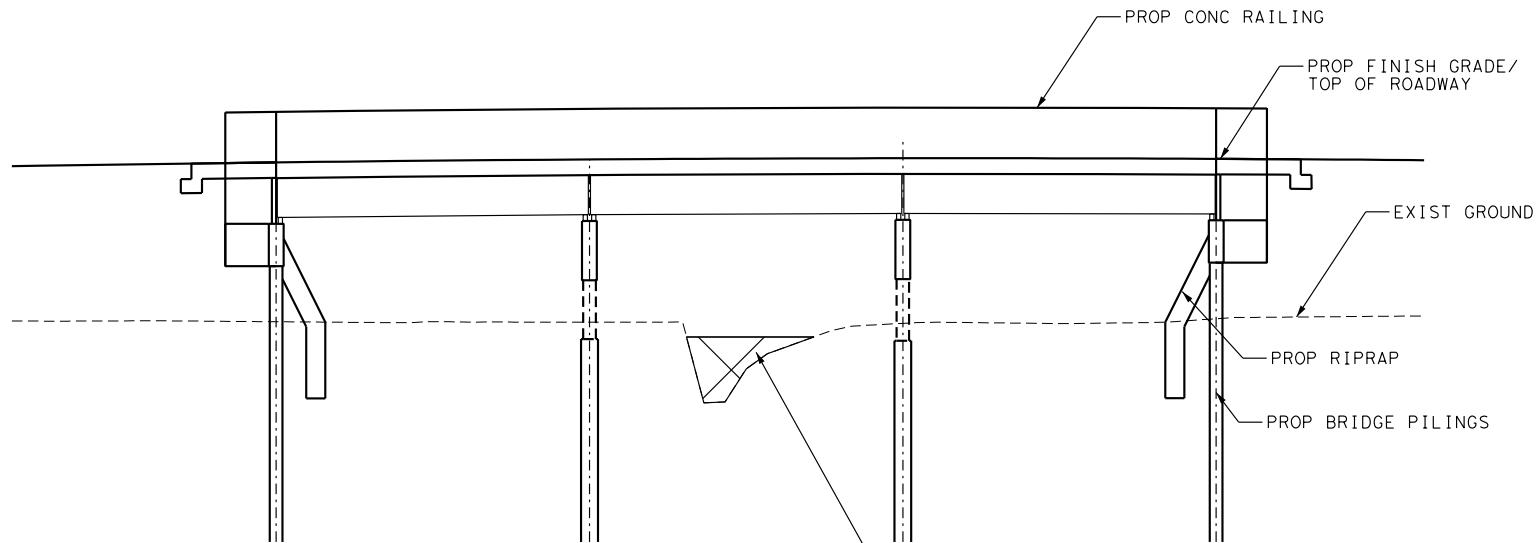
SHEET 6 OF 37

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057,ETC	US 59

Panel 4 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT

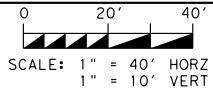


TRIBUTARY 5: SUMMARY
OHWM WIDTH = 30 LF
DEPTH BELOW OHWM = 1.4 LF
LENGTH IN PROJECT = 465 LF
TOTAL AREA = 0.209 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.170 AC
TEMPORARY IMPACT LENGTH = 338 LF
AVOIDED AREA = 0.039 AC
AVOIDED AREA LENGTH = 127 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

TRIBUTARY 5: PERENNIAL
OHWM WIDTH = 30 LF
TOTAL AREA = 0.209 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.170 AC
TEMPORARY IMPACT LENGTH = 338 LF
AVOIDED AREA = 0.039 AC
AVOIDED AREA LENGTH = 127 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

SECTION L-L

TRIBUTARY 5 (TARKINGTON BAYOU)



IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

SHEET 7 OF 37

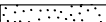
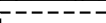
FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

WETLAND A2-1: SUMMARY
TOTAL AREA = 1.038 AC
PERMANENT IMPACT = 0.831 AC
TEMPORARY IMPACT = 0.207 AC
AVOIDED AREAS = 0 AC
ESTIMATED FILL = 670 CY
CLEAN DIRT

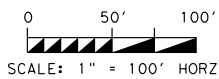
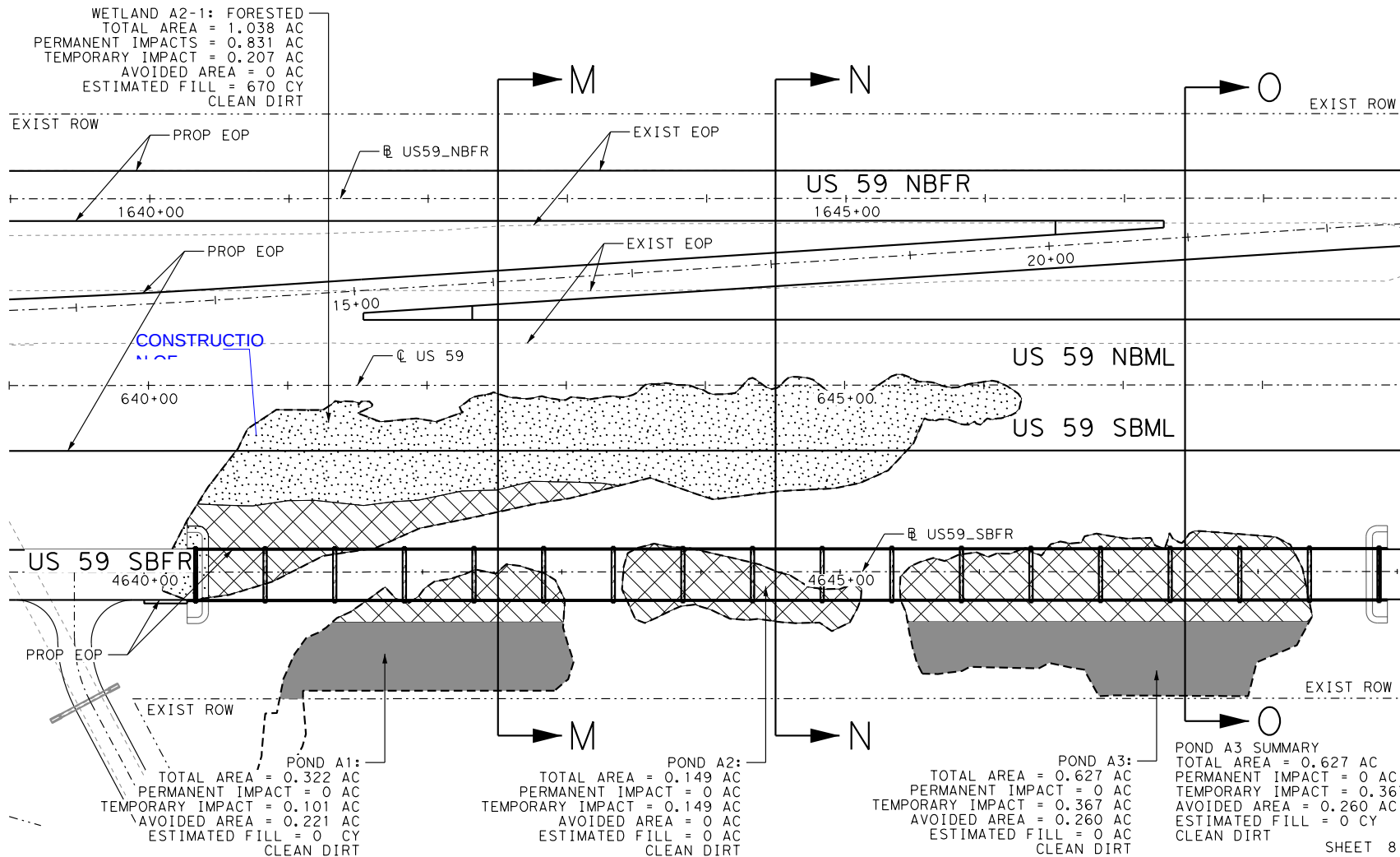
POND A2 SUMMARY
TOTAL AREA = 0.149 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.149 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

POND A1 SUMMARY
TOTAL AREA = 0.322 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.101 AC
AVOIDED AREA = 0.221 AC
ESTIMATED FILL = 1.41 CY
CLEAN DIRT

LEGEND

-  AVOIDED AREA
-  TEMPORARY IMPACT
-  PERMANENT IMPACT
-  WETLAND BOUNDARY

Panel 4 Wetland



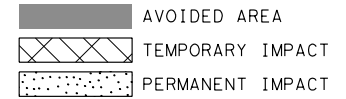
IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 639+00 TO STA 649+00)

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	HIGHWAY	
0177	02	057, ETC	
		US 59	

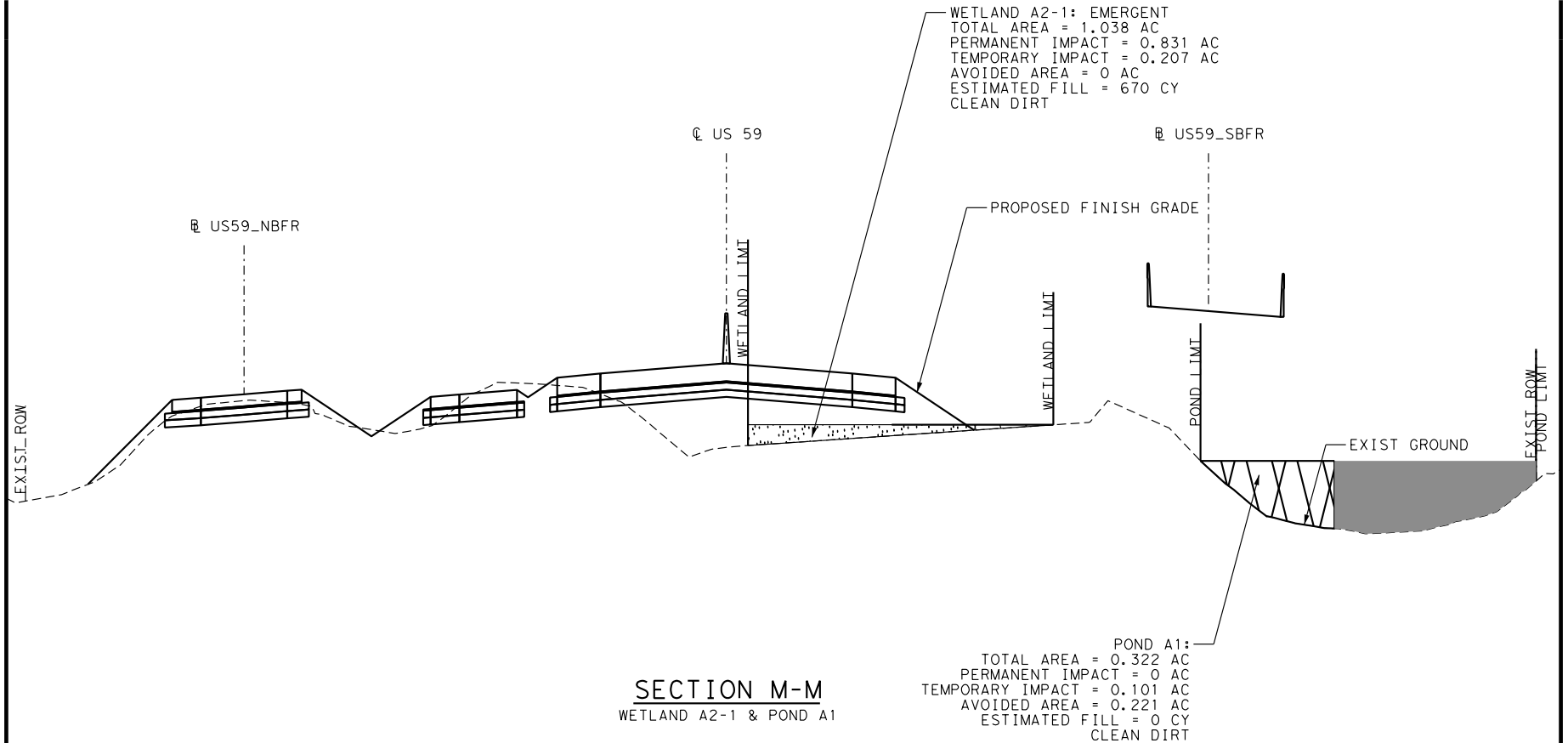
SHEET 8 OF 37

Panel 4 on Wetland

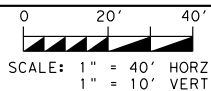
LEGEND



WETLAND A2-1: EMERGENT
TOTAL AREA = 1.038 AC
PERMANENT IMPACT = 0.831 AC
TEMPORARY IMPACT = 0.207 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 670 CY
CLEAN DIRT



POND A1 SUMMARY
TOTAL AREA = 0.322 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.101 AC
AVOIDED AREA = 0.221 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT



IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

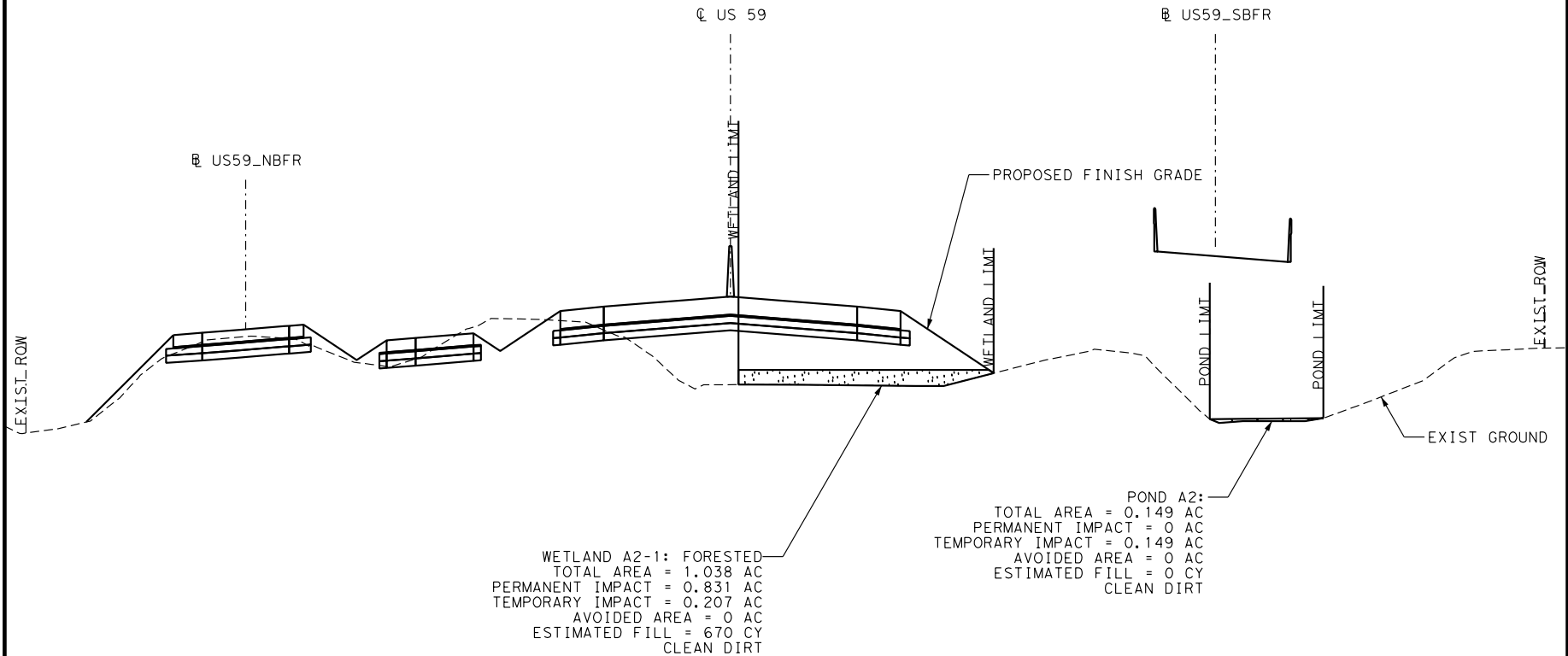
FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

SHEET 9 OF 37

Panel 4 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT

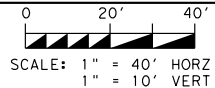


SECTION N-N

WETLAND A2-1 & POND A2

WETLAND A2-1: SUMMARY
TOTAL AREA = 1.038 AC
PERMANENT IMPACT = 0.831 AC
TEMPORARY IMPACT = 0.207 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 670 CY
CLEAN DIRT

POND A2: SUMMARY
TOTAL AREA = 0.149 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.149 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT



IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

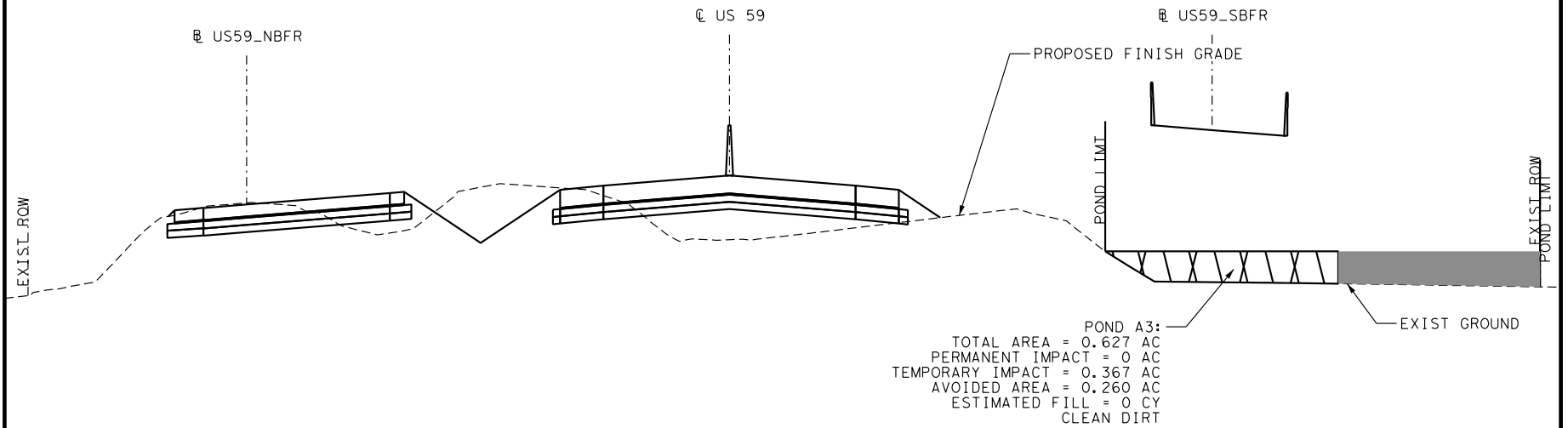
SHEET 10 OF 37

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

Panel 4 on Wetland

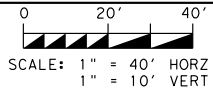
LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



SECTION 0-0
POND A3

POND A3 SUMMARY
TOTAL AREA = 0.627 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.367 AC
AVOIDED AREA = 0.260 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

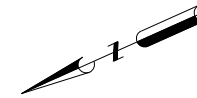


IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

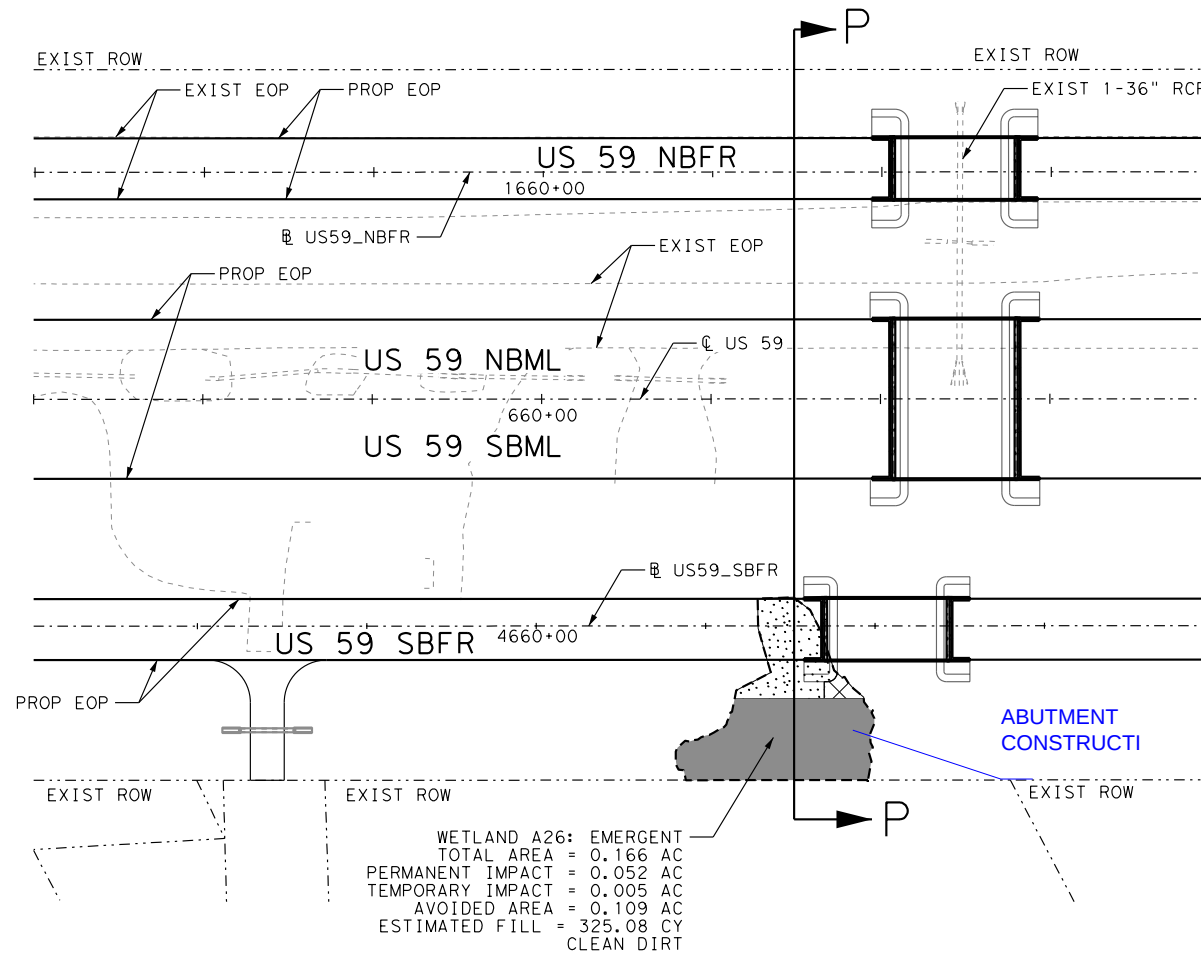
FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

SHEET 11 OF 37

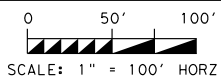
LEGEND



-  AVOIDED AREA
 TEMPORARY IMPACT
 PERMANENT IMPACT
 WETLAND BOUNDARY



SHEET 12 OF 37



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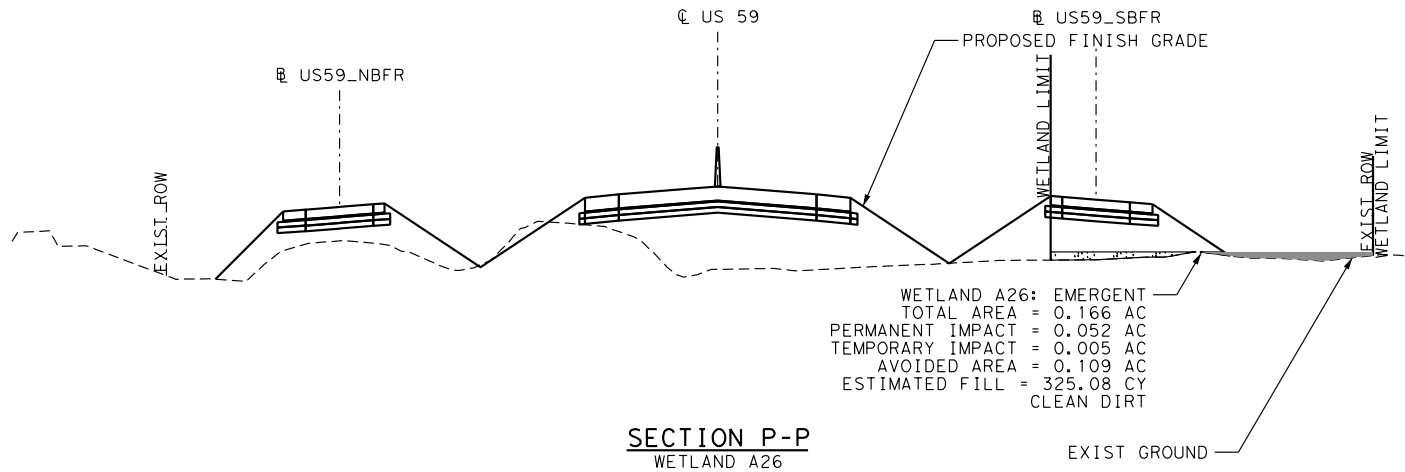
IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 657+00 TO STA 663+50)

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

Panel 3 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



0 20' 60'
SCALE: 1" = 60' HORZ
1" = 10' VERT



IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

SHEET 13 OF 37

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

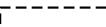
WETLAND A3-1: SUMMARY
TOTAL AREA = 0.230 AC
PERMANENT IMPACT = 0.097 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.133 AC
ESTIMATED FILL = 25 CY
CLEAN DIRT

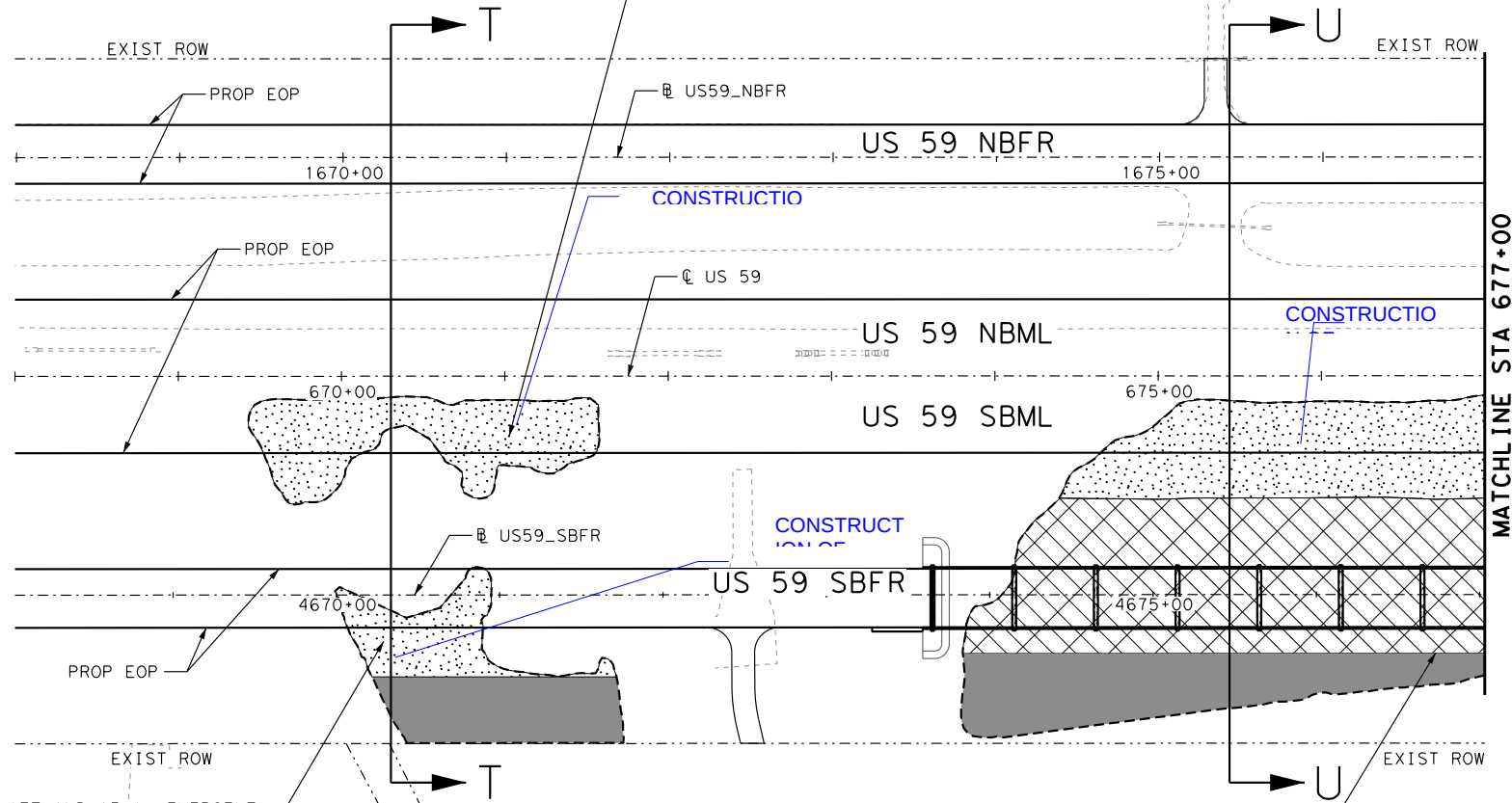
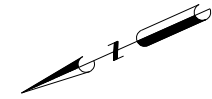
WETLAND A3-2: SUMMARY
TOTAL AREA = 0.203 AC
PERMANENT IMPACT = 0.203 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 98 CY
CLEAN DIRT

Panel 3 on Wetland

WETLAND A3-2: EMERGENT
TOTAL AREA = 0.203 AC
PERMANENT IMPACT = 0.203 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 98 CY
CLEAN DIRT

LEGEND

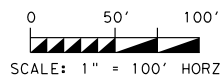
-  AVOIDED AREA
-  TEMPORARY IMPACT
-  PERMANENT IMPACT
-  WETLAND BOUNDARY



WETLAND A3-1: EMERGENT
TOTAL AREA = 0.230 AC
PERMANENT IMPACT = 0.097 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.133 AC
ESTIMATED FILL = 25 CY
CLEAN DIRT

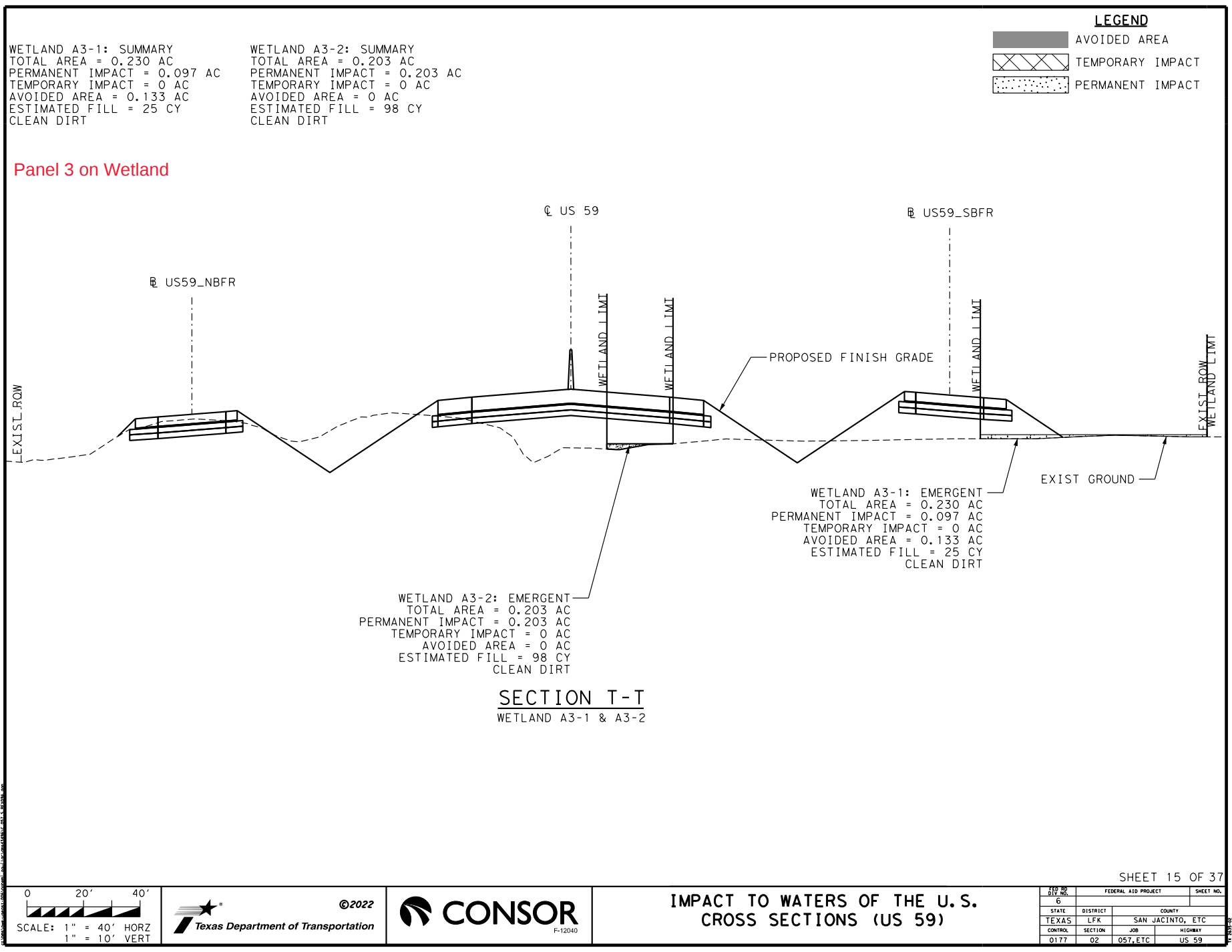
WETLAND A4: EMERGENT
TOTAL AREA = 2.705 AC
PERMANENT IMPACT = 0.891 AC
TEMPORARY IMPACT = 1.273 AC
AVOIDED AREA = 0.541 AC
ESTIMATED FILL = 575 CY
CLEAN DIRT AND 40 CY CONCRETE

SHEET 14 OF 37



IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 668+50 TO STA 677+00)

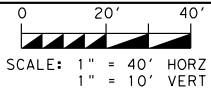
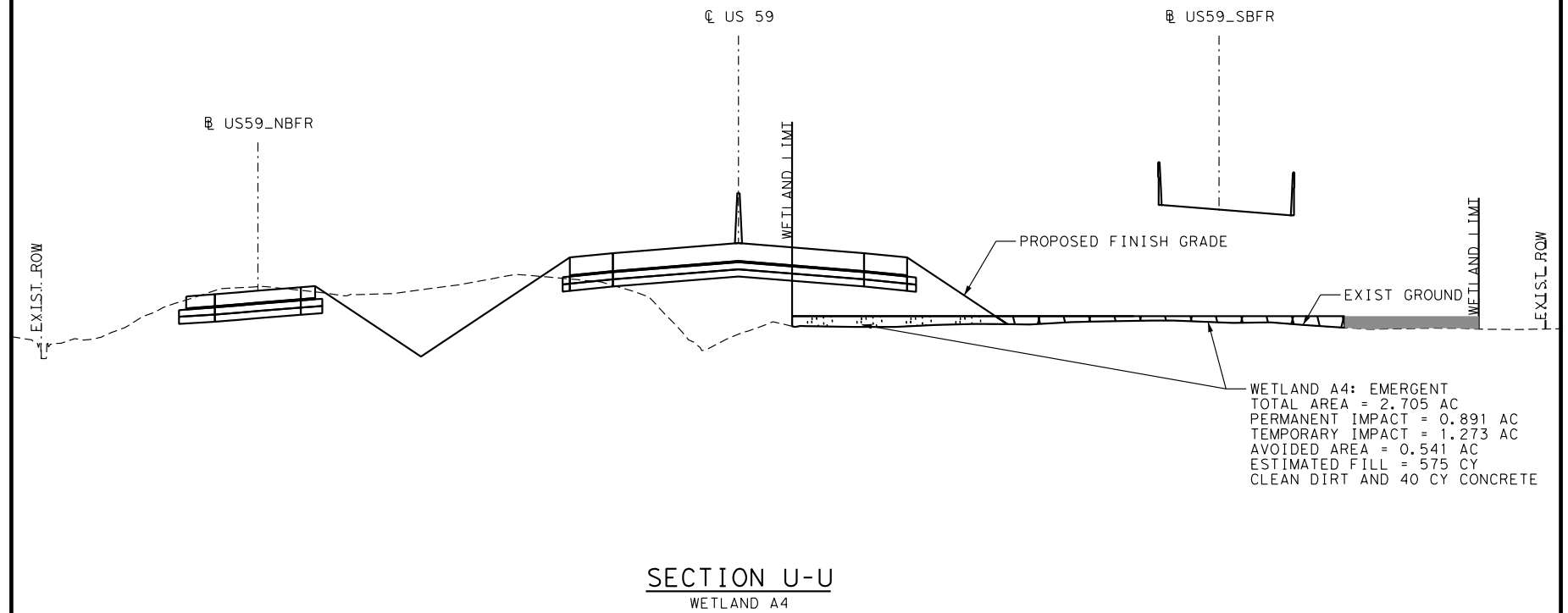
FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59



Panel 3 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

SHEET 16 OF 37

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

Panel 3 on Wetland

POND C: SUMMARY
TOTAL AREA = 0.265 AC
PERMANENT IMPACT = 0.009 AC
TEMPORARY IMPACT = 0.182 AC
AVOIDED AREA = 0.074 AC
ESTIMATED FILL = 7 CY
CLEAN DIRT

POND B: SUMMARY
TOTAL AREA = 0.008 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.008 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

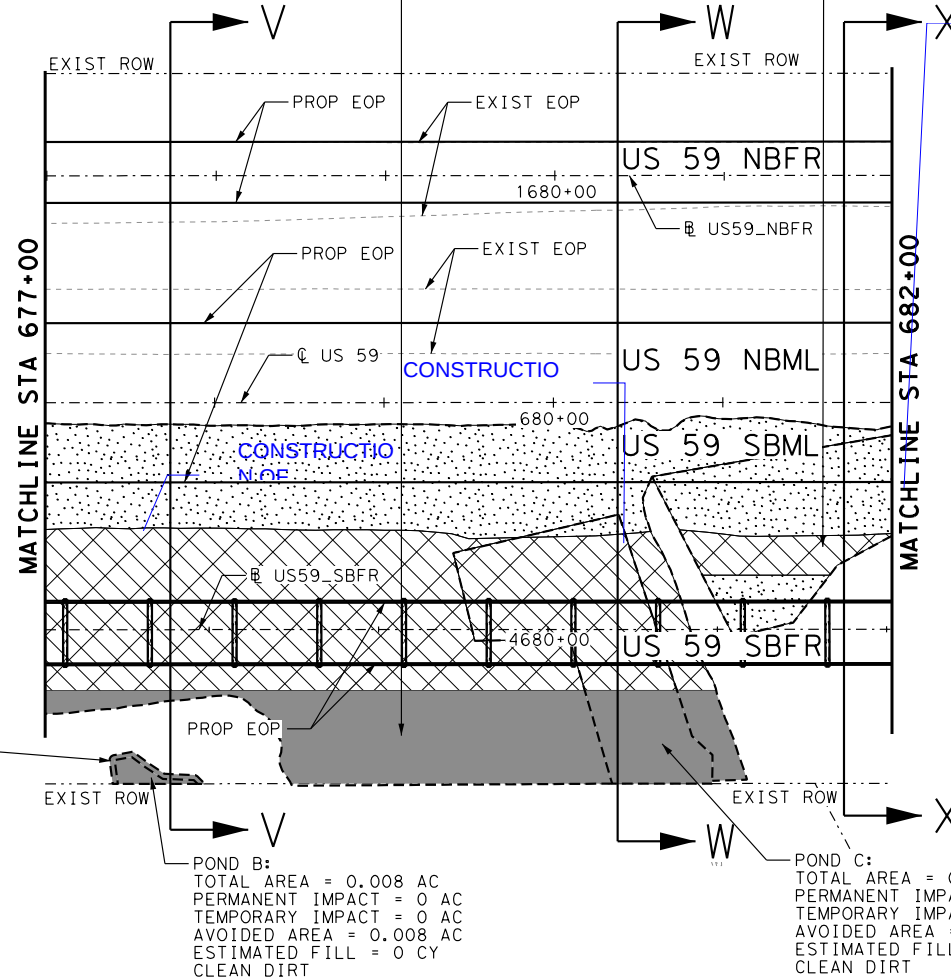
WETLAND A4: SUMMARY
TOTAL AREA = 2.705 AC
PERMANENT IMPACT = 0.891 AC
TEMPORARY IMPACT = 1.273 AC
AVOIDED AREA = 0.541 AC
ESTIMATED FILL = 575 CY
CLEAN DIRT AND 40 CY CONCRETE

WETLAND 23: SUMMARY
TOTAL AREA = 0.005 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.005 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND A4: EMERGENT
TOTAL AREA = 2.705 AC
PERMANENT IMPACT = 0.891 AC
TEMPORARY IMPACT = 1.273 AC
AVOIDED AREA = 0.541 AC
ESTIMATED FILL = 575 CY
CLEAN DIRT AND 40 CY CONCRETE

WETLAND A5: FORESTED
TOTAL AREA = 0.258 AC
PERMANENT IMPACT = 0.204 AC
TEMPORARY IMPACT = 0.054 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 159 CY
CLEAN DIRT

LEGEND

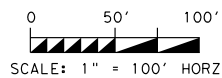


WETLAND 23: EMERGENT
TOTAL AREA = 0.005 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.005 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

POND B:
TOTAL AREA = 0.008 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.008 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

POND C:
TOTAL AREA = 0.265 AC
PERMANENT IMPACT = 0.009 AC
TEMPORARY IMPACT = 0.182 AC
AVOIDED AREA = 0.074 AC
ESTIMATED FILL = 7 CY
CLEAN DIRT

SHEET 17 OF 37



IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 677+00 TO STA 682+00)

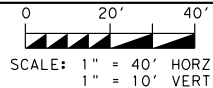
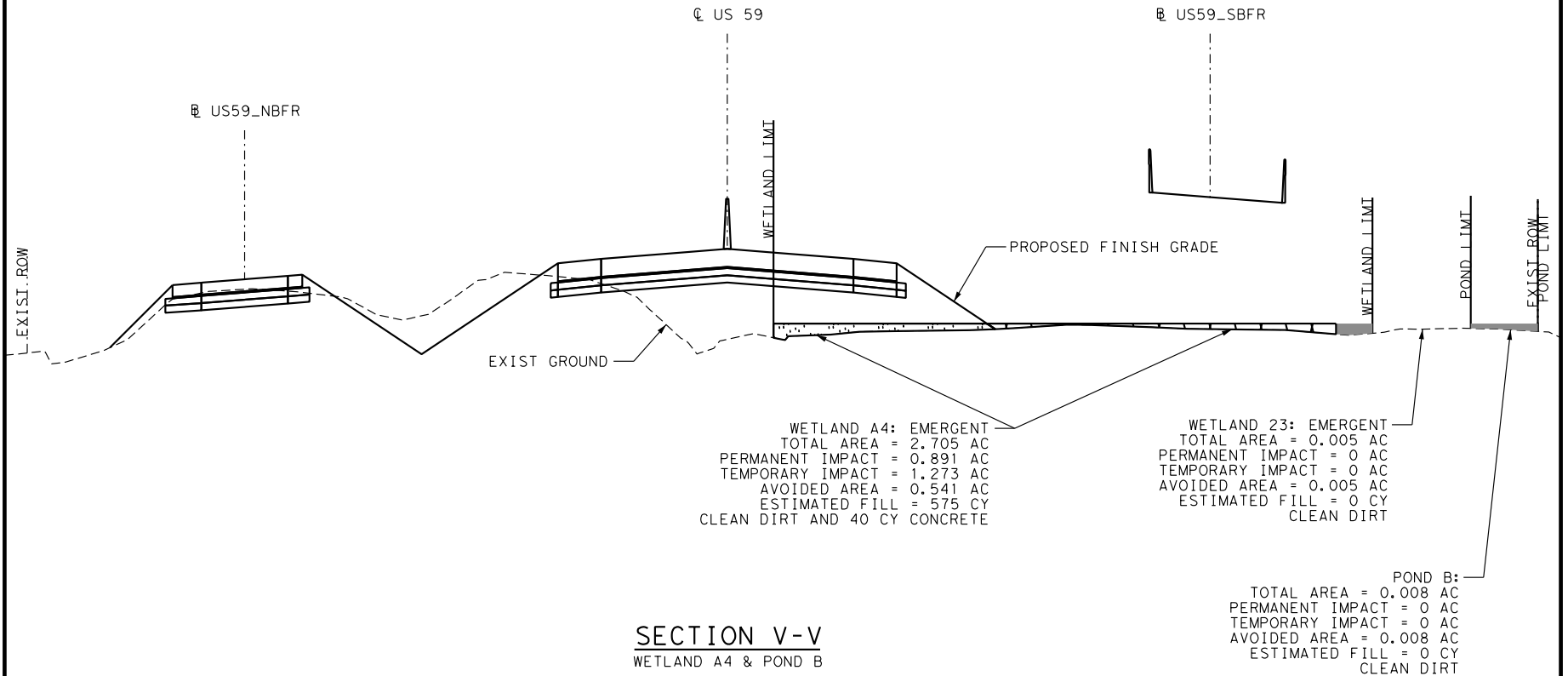
FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

POND B: SUMMARY
TOTAL AREA = 0.008 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.008 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

LEGEND

-  AVOIDED AREA
-  TEMPORARY IMPACT
-  PERMANENT IMPACT

Panel 3 on Wetland



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

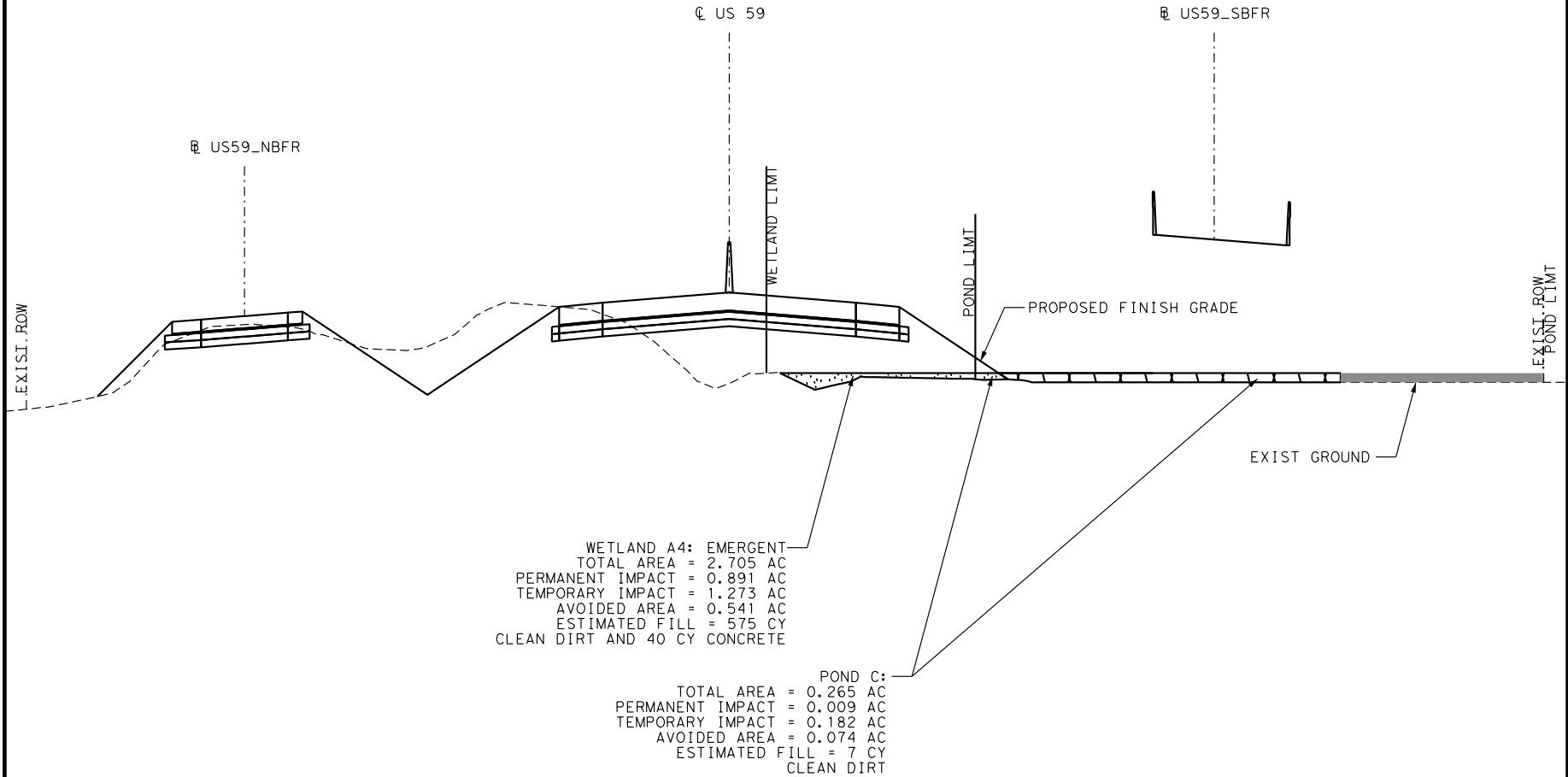
SHEET 18 OF 37

POND C: SUMMARY
TOTAL AREA = 0.265 AC
PERMANENT IMPACT = 0.009 AC
TEMPORARY IMPACT = 0.182 AC
AVOIDED AREA = 0.074 AC
ESTIMATED FILL = 7 CY
CLEAN DIRT

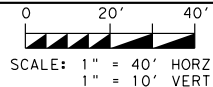
LEGEND

-  AVOIDED AREA
-  TEMPORARY IMPACT
-  PERMANENT IMPACT

Panel 3 on Wetland



SECTION W-W
WETLAND A4 & POND C

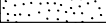


**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

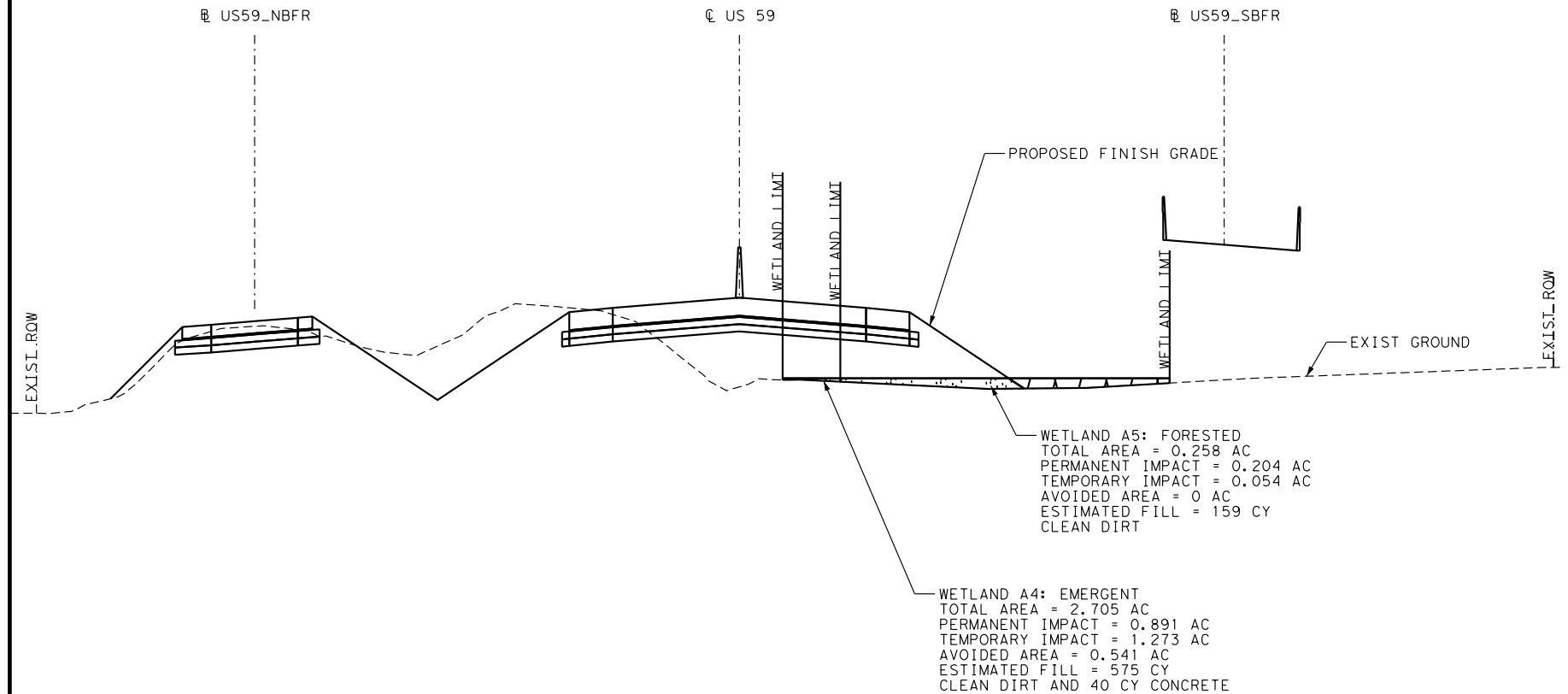
Panel 3 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT

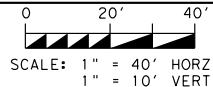
WETLAND A4: SUMMARY
TOTAL AREA = 2.705 AC
PERMANENT IMPACT = 0.891 AC
TEMPORARY IMPACT = 1.273 AC
AVOIDED AREA = 0.541 AC
ESTIMATED FILL = 575 CY
CLEAN DIRT AND 40 CY CONCRETE

WETLAND A5: SUMMARY
TOTAL AREA = 0.258 AC
PERMANENT IMPACT = 0.204 AC
TEMPORARY IMPACT = 0.054 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 159 CY
CLEAN DIRT



SECTION X-X
WETLAND A4 & A5

SHEET 20 OF 37



IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

POND D: SUMMARY
TOTAL AREA = 0.548 AC
PERMANENT IMPACT = 0.395 AC
TEMPORARY IMPACT = 0.074 AC
AVOIDED AREA = 0.079 AC
ESTIMATED FILL = 82 CY
CLEAN DIRT

WETLAND A5: SUMMARY
TOTAL AREA = 0.258 AC
PERMANENT IMPACT = 0.204 AC
TEMPORARY IMPACT = 0.054 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 159 CY
CLEAN DIRT

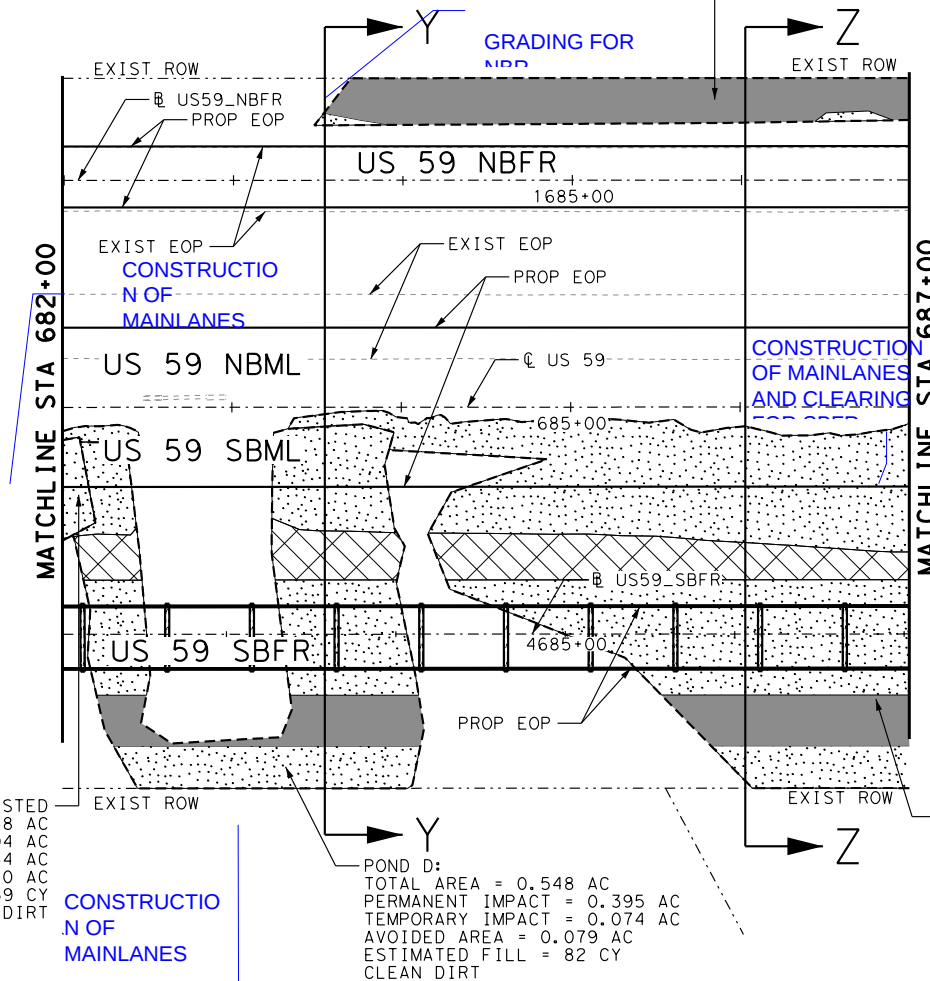
WETLAND 3B: SUMMARY
TOTAL AREA = 0.413 AC
PERMANENT IMPACT = 0.071 AC
TEMPORARY IMPACT = 0.018 AC
AVOIDED AREA = 0.324 AC
ESTIMATED FILL = 92 CY
CLEAN DIRT

WETLAND 3B: EMERGENT
TOTAL AREA = 0.413 AC
PERMANENT IMPACT = 0.071 AC
TEMPORARY IMPACT = 0.018 AC
AVOIDED AREA = 0.324 AC
ESTIMATED FILL = 92 CY
CLEAN DIRT

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT
	WETLAND BOUNDARY

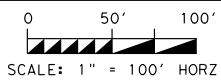
Panel 3 on Wetland



WETLAND A5: FORESTED
TOTAL AREA = 0.258 AC
PERMANENT IMPACT = 0.204 AC
TEMPORARY IMPACT = 0.054 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 159 CY
CLEAN DIRT

POND D:
TOTAL AREA = 0.548 AC
PERMANENT IMPACT = 0.395 AC
TEMPORARY IMPACT = 0.074 AC
AVOIDED AREA = 0.079 AC
ESTIMATED FILL = 82 CY
CLEAN DIRT

WETLAND A7: FORESTED
TOTAL AREA = 2.809 AC
PERMANENT IMPACT = 2.138 AC
TEMPORARY IMPACT = 0.346 AC
AVOIDED AREA = 0.325 AC
ESTIMATED FILL = 607 CY
CLEAN DIRT AND 40 CY CONCRETE



IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 682+00 TO STA 687+00)

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

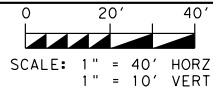
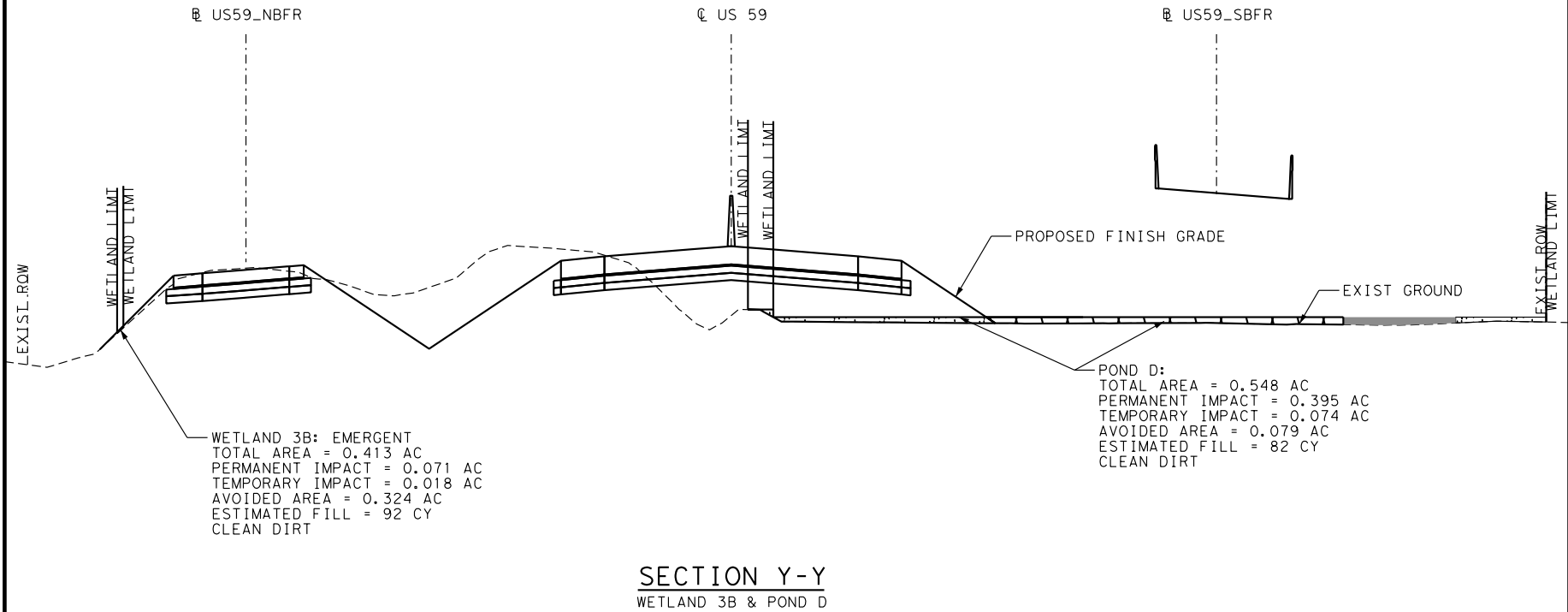
SHEET 21 OF 37

Panel 3 on Wetland

POND D: SUMMARY
TOTAL AREA = 0.548 AC
PERMANENT IMPACT = 0.395 AC
TEMPORARY IMPACT = 0.074 AC
AVOIDED AREA = 0.079 AC
ESTIMATED FILL = 82 CY
CLEAN DIRT

LEGEND

-  AVOIDED AREA
-  TEMPORARY IMPACT
-  PERMANENT IMPACT



IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

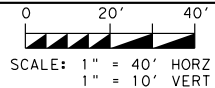
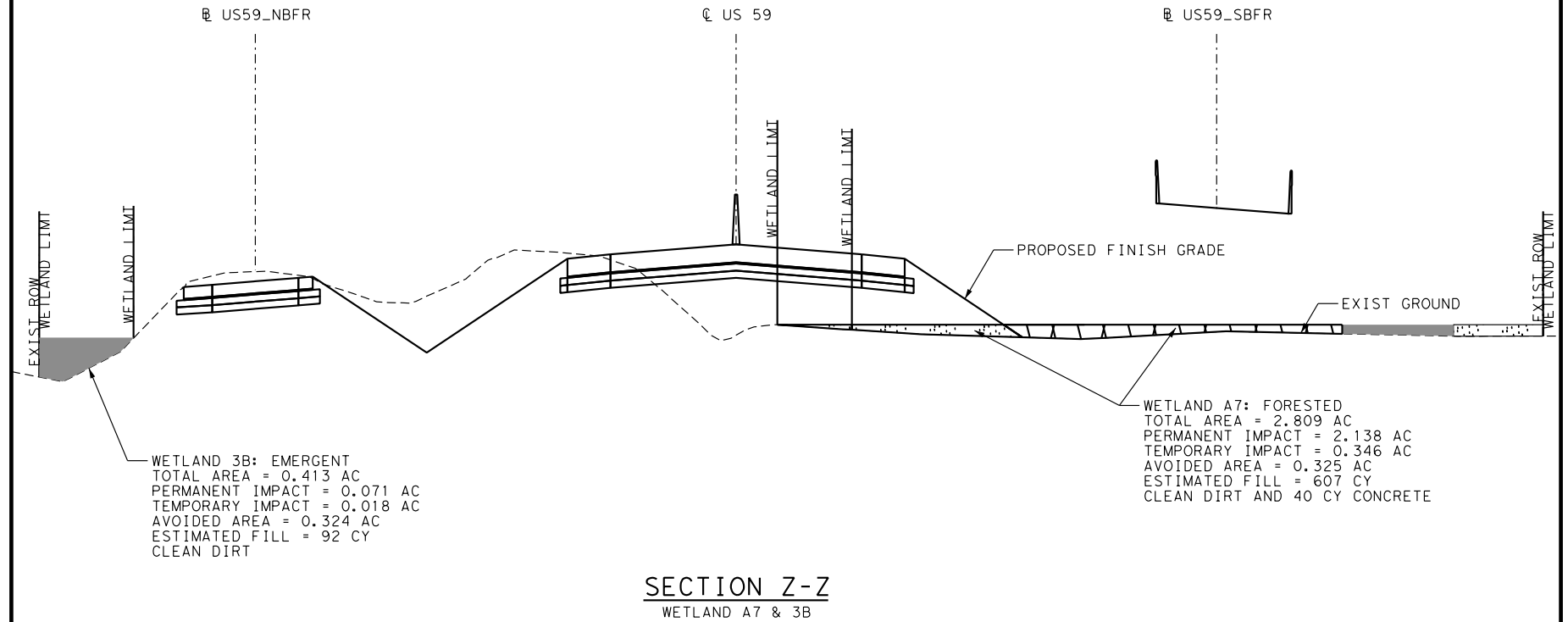
FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

SHEET 22 OF 37

Panel 3 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



IMPACT TO WATERS OF THE U. S.
CROSS SECTIONS (US 59)

SHEET 23 OF 37

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057.ETC	US 59

Panel 3 on Wetland

WORK CONSISTS OF REMOVING EXISTING DRAINAGE STRUCTURES AND REPLACE WITH BRIDGES. NO FILL BELOW OHWM OR PERMANENT IMPACT ANTICIPATED. TEMPORARY IMPACT ARE PROPOSED WITHIN THE LIMITS OF THE EXISTING CULVERTS FOR THEIR REMOVALS

WETLAND 3B: EMERGENT
TOTAL AREA = 0.413 AC
PERMANENT IMPACT = 0.071 AC
TEMPORARY IMPACT = 0.018 AC
AVOIDED AREA = 0.324 AC
ESTIMATED FILL = 92 CY
CLEAN DIRT

TRIBUTARY 4: EPHEMERAL
OHWM WIDTH = 20 LF
TOTAL AREA = 0.083 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.083 AC
TEMPORARY IMPACT LENGTH = 175 LF
AVOIDED AREA = 0 AC
AVOIDED AREA LENGTH = 0 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND 3A: EMERGENT
TOTAL AREA = 0.108 AC
PERMANENT IMPACT = 0.027 AC
TEMPORARY IMPACT = 0.016 AC
AVOIDED AREA = 0.065 AC
ESTIMATED FILL = 27 CY
CLEAN DIRT

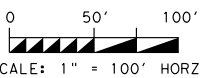
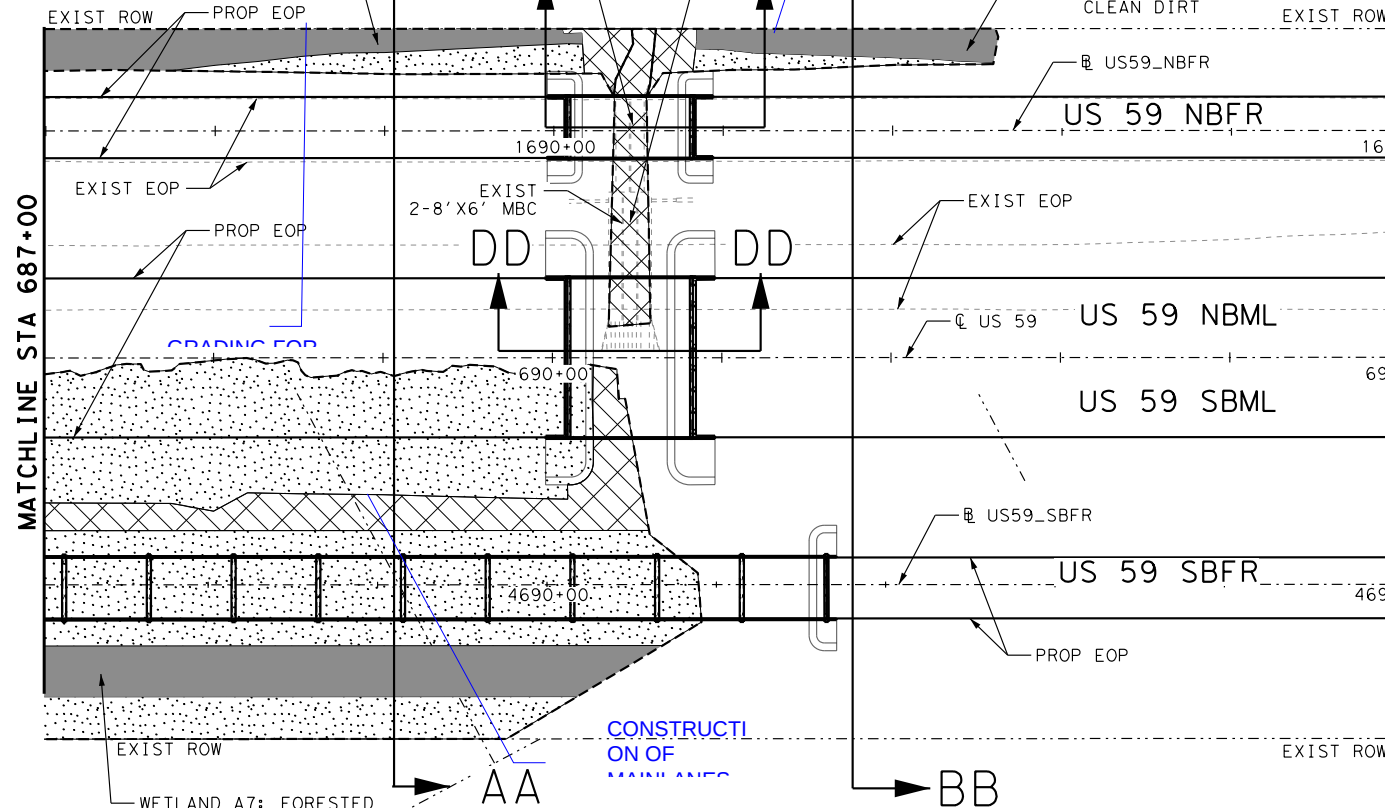
WETLAND A7: SUMMARY
TOTAL AREA = 2.809 AC
PERMANENT IMPACT = 2.138 AC
TEMPORARY IMPACT = 0.346 AC
AVOIDED AREA = 0.325 AC
ESTIMATED FILL = 607 CY
CLEAN DIRT AND 40 CY CONCRETE

WETLAND 3A: SUMMARY
TOTAL AREA = 0.108 AC
PERMANENT IMPACT = 0.027 AC
TEMPORARY IMPACT = 0.016 AC
AVOIDED AREA = 0.065 AC
ESTIMATED FILL = 27 CY
CLEAN DIRT

WETLAND 3B: SUMMARY
TOTAL AREA = 0.413 AC
PERMANENT IMPACT = 0.071 AC
TEMPORARY IMPACT = 0.018 AC
AVOIDED AREA = 0.324 AC
ESTIMATED FILL = 92 CY
CLEAN DIRT

TRIBUTARY 4: SUMMARY
OHWM WIDTH = 20 LF
DEPTH BELOW OHWM = 1.3 LF
TOTAL AREA = 0.083 AC
LENGTH IN PROJECT = 175 LF
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.083 AC
TEMPORARY IMPACT LENGTH = 175 LF
AVOIDED AREA = 0 AC
AVOIDED AREA LENGTH = 0 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

WETLAND A7: FORESTED
TOTAL AREA = 2.809 AC
PERMANENT IMPACT = 2.138 AC
TEMPORARY IMPACT = 0.346 AC
AVOIDED AREA = 0.325 AC
ESTIMATED FILL = 607 CY
CLEAN DIRT AND 40 CY CONCRETE



IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 687+00 TO STA 695+00)

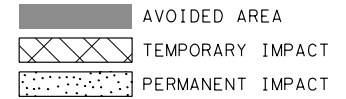
FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

SHEET 24 OF 37

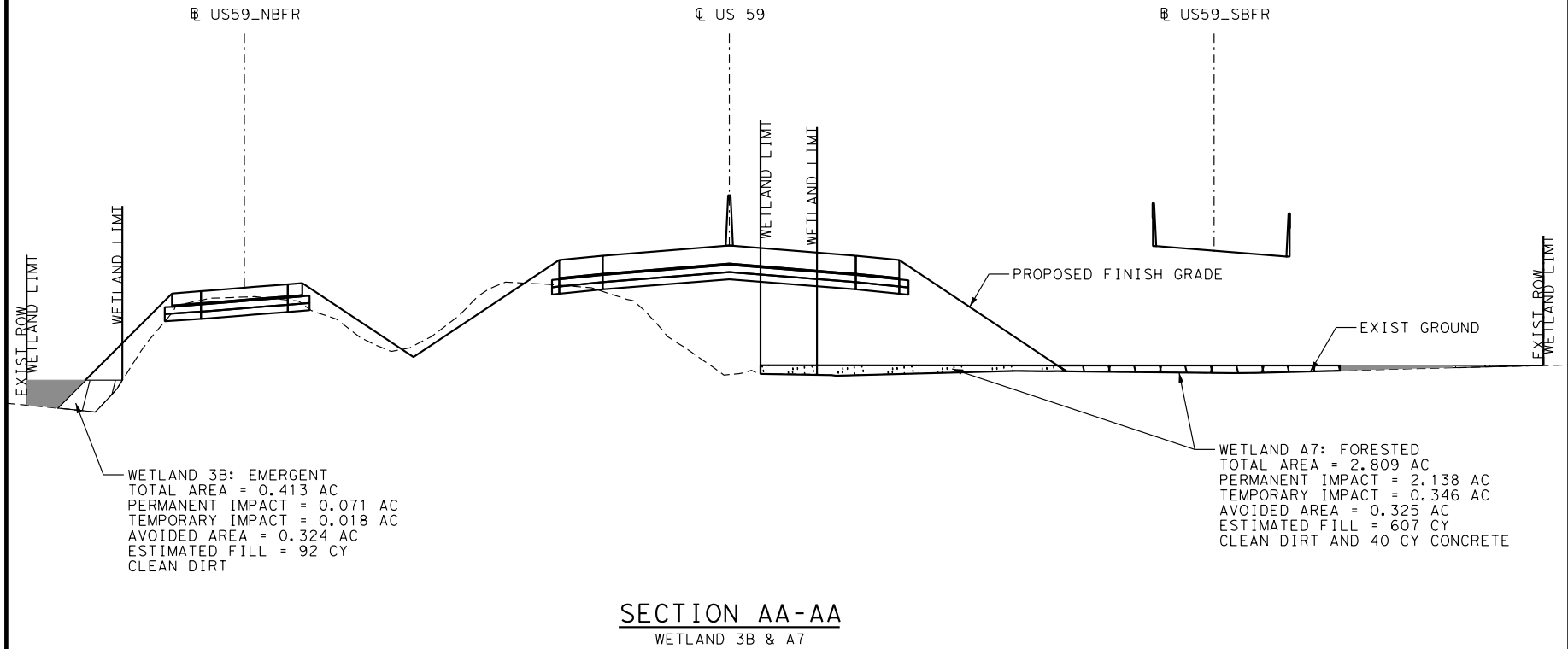
WETLAND 3B: SUMMARY
TOTAL AREA = 0.413 AC
PERMANENT IMPACT = 0.071 AC
TEMPORARY IMPACT = 0.018 AC
AVOIDED AREA = 0.324 AC
ESTIMATED FILL = 92 CY
CLEAN DIRT

WETLAND A7: SUMMARY
TOTAL AREA = 2.809 AC
PERMANENT IMPACT = 2.138 AC
TEMPORARY IMPACT = 0.346 AC
AVOIDED AREA = 0.325 AC
ESTIMATED FILL = 607 CY
CLEAN DIRT AND 40 CY CONCRETE

LEGEND



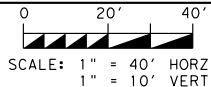
Panel 3 on Wetland



SECTION AA-AA
WETLAND 3B & A7

WETLAND A7: FORESTED
TOTAL AREA = 2.809 AC
PERMANENT IMPACT = 2.138 AC
TEMPORARY IMPACT = 0.346 AC
AVOIDED AREA = 0.325 AC
ESTIMATED FILL = 607 CY
CLEAN DIRT AND 40 CY CONCRETE

WETLAND 3B: EMERGENT
TOTAL AREA = 0.413 AC
PERMANENT IMPACT = 0.071 AC
TEMPORARY IMPACT = 0.018 AC
AVOIDED AREA = 0.324 AC
ESTIMATED FILL = 92 CY
CLEAN DIRT



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

FED RD DIV NO.	FEDERAL AID PROJECT		SHEET NO.
6			
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057. ETC	US 59

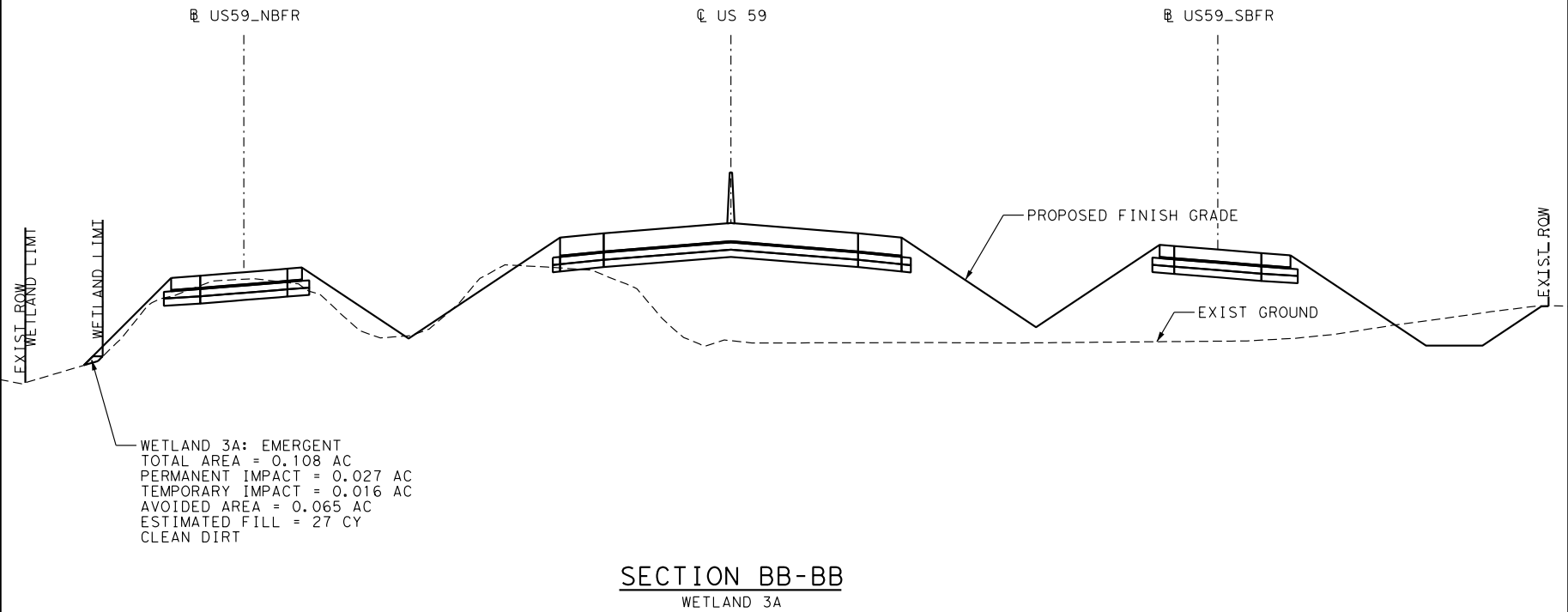
SHEET 25 OF 37

WETLAND 3A: SUMMARY
TOTAL AREA = 0.108 AC
PERMANENT IMPACT = 0.027 AC
TEMPORARY IMPACT = 0.016 AC
AVOIDED AREA = 0.065 AC
ESTIMATED FILL = 27 CY
CLEAN DIRT

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT

Panel 3 on Wetland



0 20' 40'
SCALE: 1" = 40' HORZ
1" = 10' VERT



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

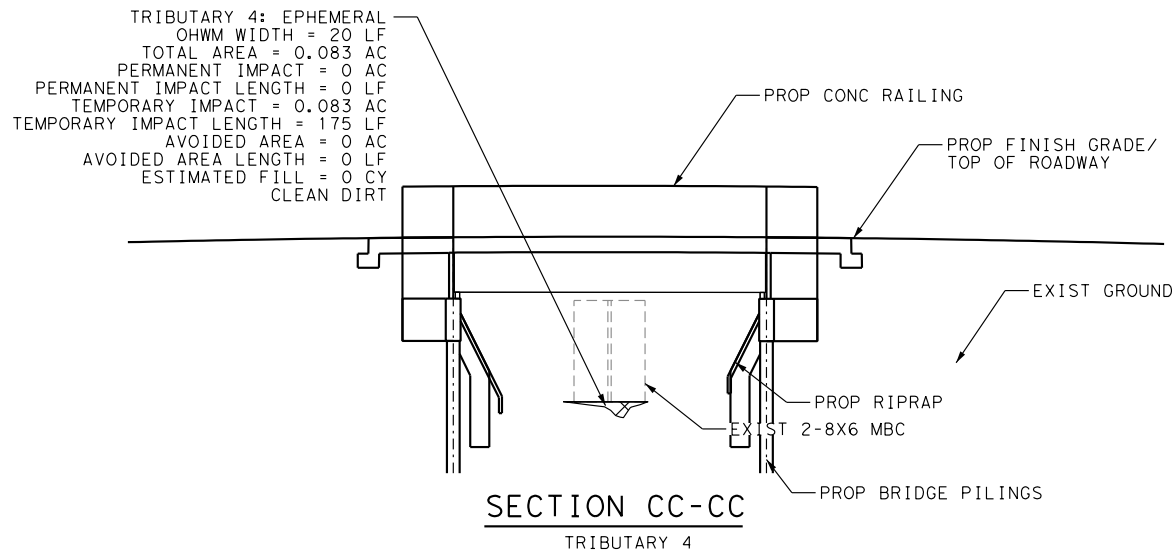
SHEET NO.		FEDERAL AID PROJECT		SHEET NO.	
6					
STATE	DISTRICT	COUNTY			
TEXAS	LFK	SAN JACINTO, ETC			
CONTROL	SECTION	JOB	HIGHWAY		
0177	02	057, ETC	US 59		

SHEET 26 OF 37

Panel 3 on Wetland

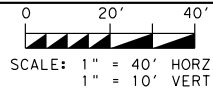
LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



TRIBUTARY 4: SUMMARY
 OHWM WIDTH = 20 LF
 DEPTH BELOW OHWM = 1.3 LF
 TOTAL AREA = 0.083 AC
 LENGTH IN PROJECT = 175 LF
 PERMANENT IMPACT = 0 AC
 PERMANENT IMPACT LENGTH = 0 LF
 TEMPORARY IMPACT = 0.083 AC
 TEMPORARY IMPACT LENGTH = 175 LF
 AVOIDED AREA = 0 AC
 AVOIDED AREA LENGTH = 0 LF
 ESTIMATED FILL = 0 CY
 CLEAN DIRT

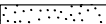
SHEET 27 OF 37



IMPACT TO WATERS OF THE U.S.
 CROSS SECTIONS (US 59)

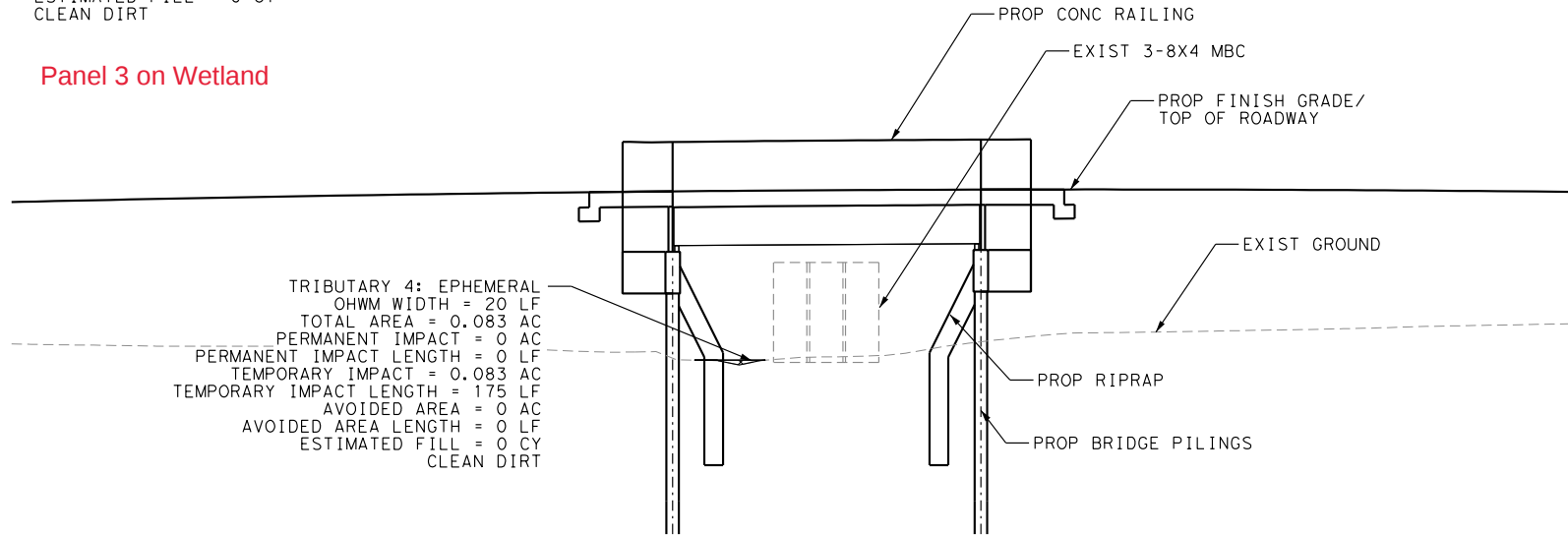
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT

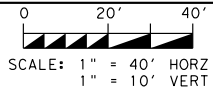
TRIBUTARY 4: SUMMARY
OHWM WIDTH = 20 LF
DEPTH BELOW OHWM = 1.3 LF
TOTAL AREA = 0.083 AC
LENGTH IN PROJECT = 175 LF
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.083 AC
TEMPORARY IMPACT LENGTH = 175 LF
AVOIDED AREA = 0 AC
AVOIDED AREA LENGTH = 0 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

Panel 3 on Wetland



TRIBUTARY 4: EPHEMERAL
OHWM WIDTH = 20 LF
TOTAL AREA = 0.083 AC
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.083 AC
TEMPORARY IMPACT LENGTH = 175 LF
AVOIDED AREA = 0 AC
AVOIDED AREA LENGTH = 0 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

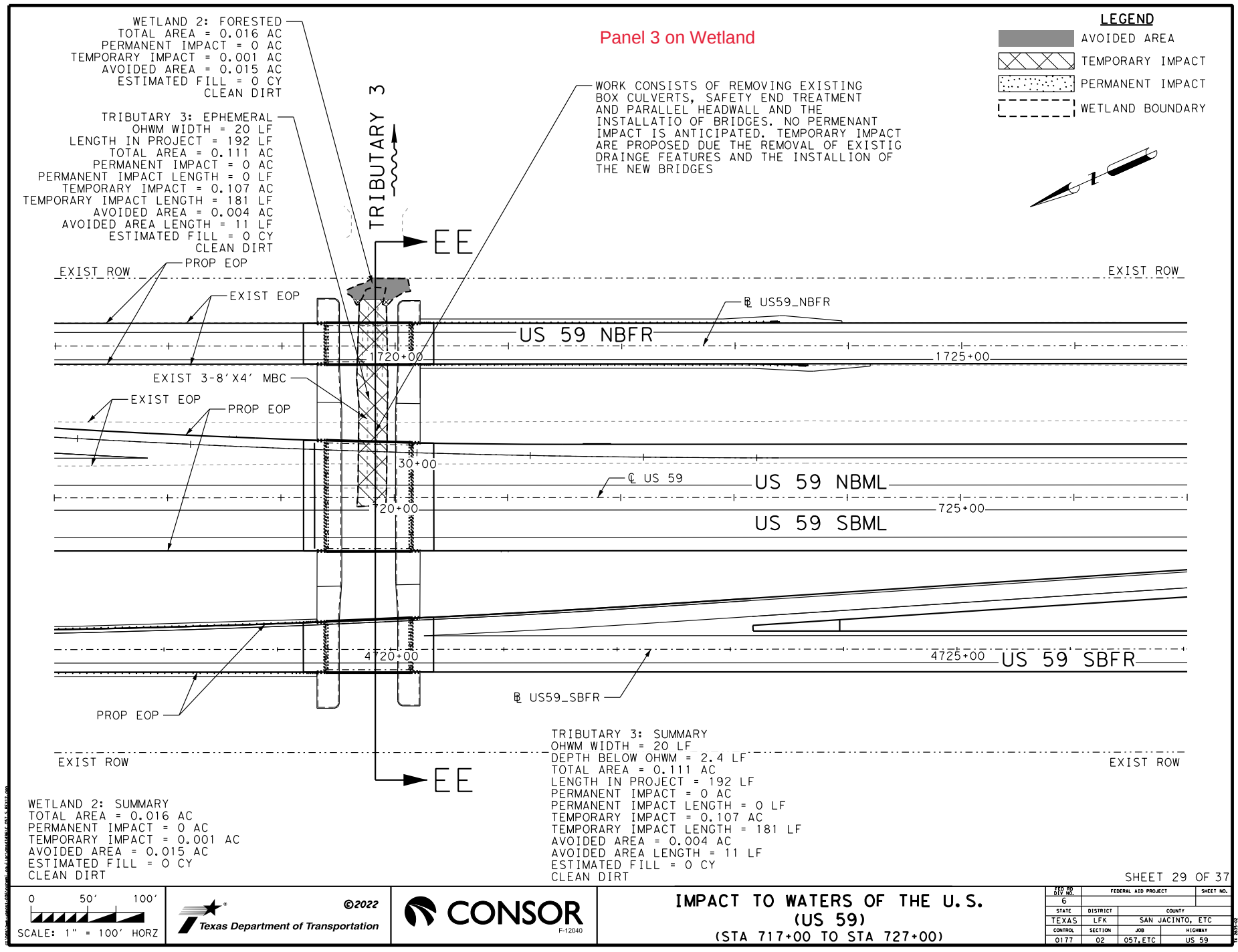
SECTION DD-DD
TRIBUTARY 4



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

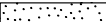
SHEET NO.		FEDERAL AID PROJECT		SHEET NO.	
G					
STATE	DISTRICT	COUNTY			
TEXAS	LFK	SAN JACINTO, ETC			
CONTROL	SECTION	JOB	HIGHWAY		
0177	02	057, ETC	US 59		

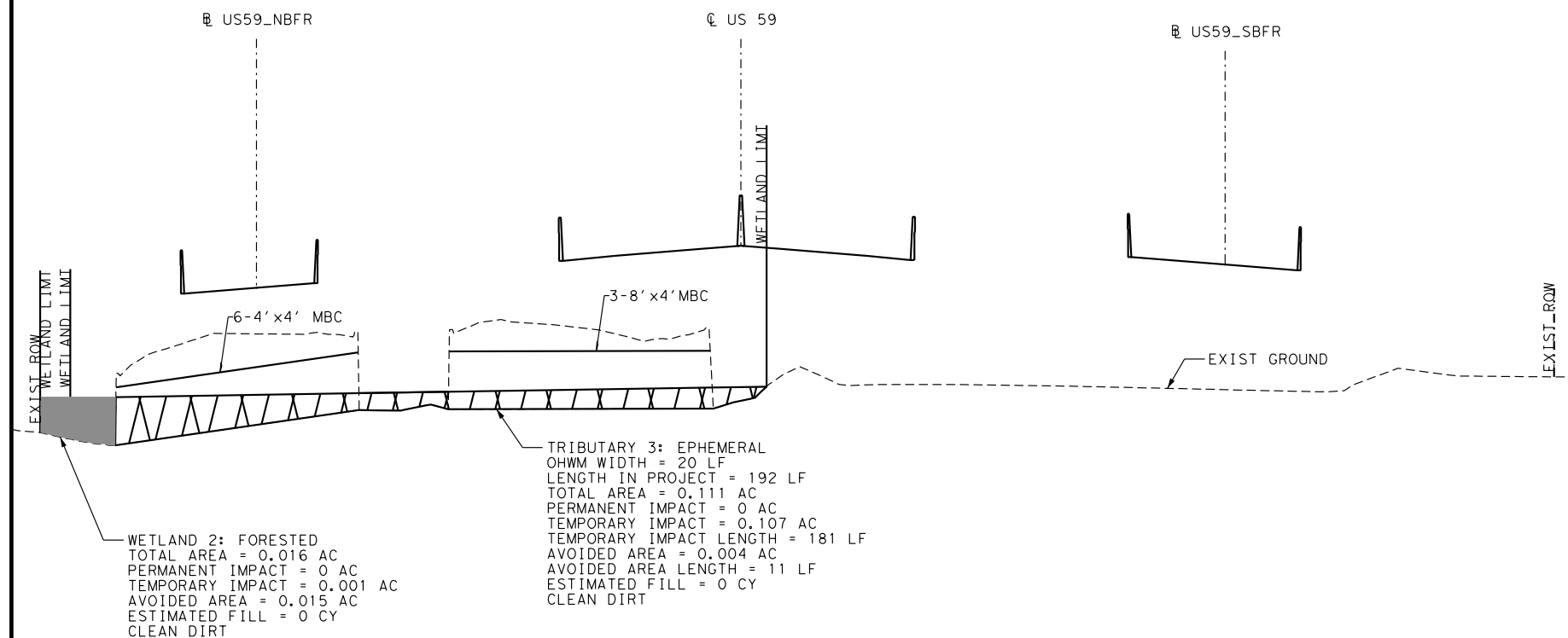
SHEET 28 OF 37



Panel 3 on Wetland

LEGEND

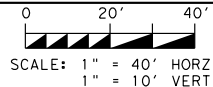
	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



SECTION EE-EE
TRIBUTARY 3 & WETLAND 2

WETLAND 2: SUMMARY
TOTAL AREA = 0.016 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0.001 AC
AVOIDED AREA = 0.015 AC
ESTIMATED OF FILL = 0 CY
CLEAN DIRT

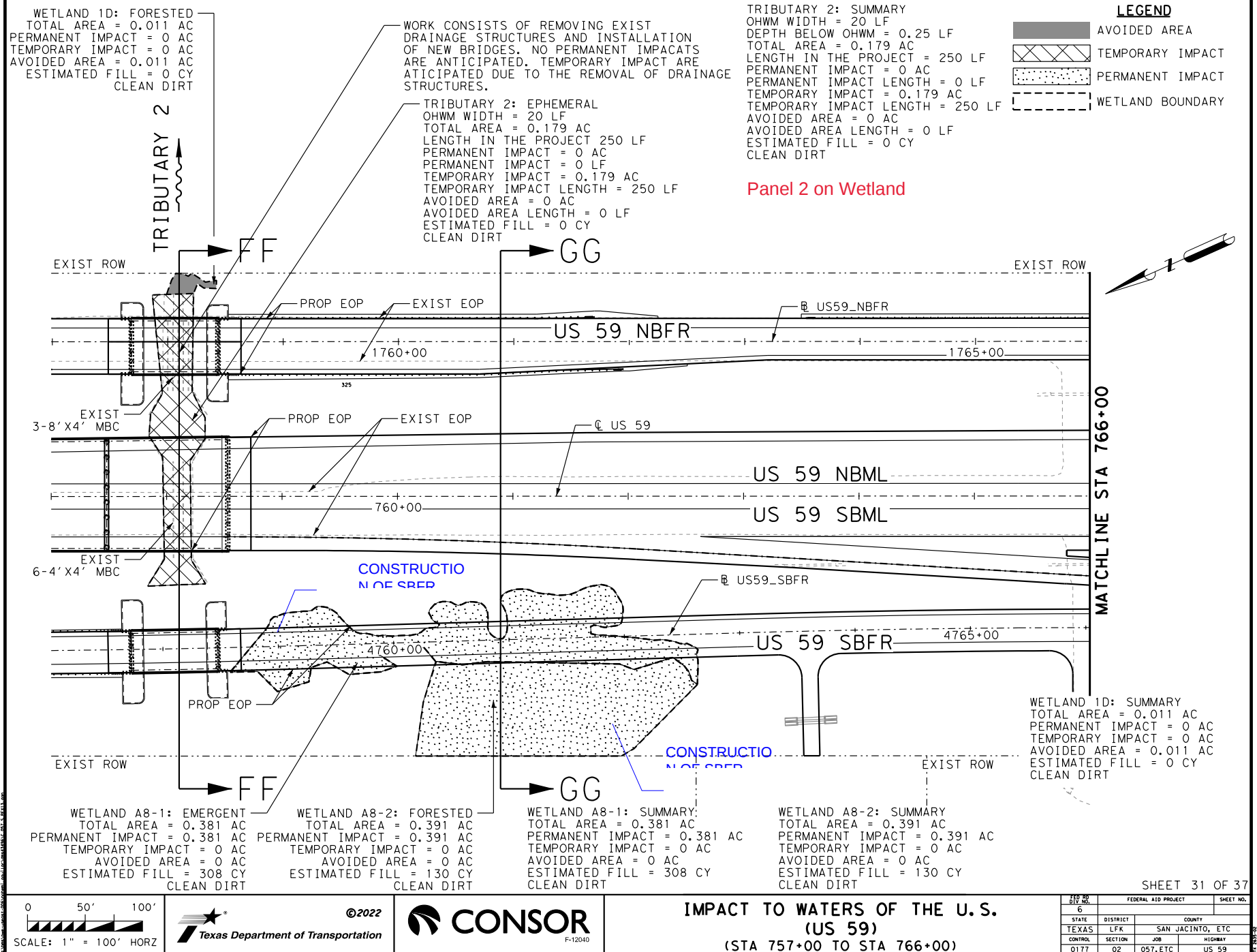
TRIBUTARY 3: SUMMARY
OHWM WIDTH = 20 LF
DEPTH BELOW OHWM = 2.4 LF
TOTAL AREA = 0.111 AC
LENGTH IN PROJECT = 192 LF
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0.107 AC
TEMPORARY IMPACT LENGTH = 181 LF
AVOIDED AREA = 0.004 AC
AVOIDED AREA LENGTH = 11 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

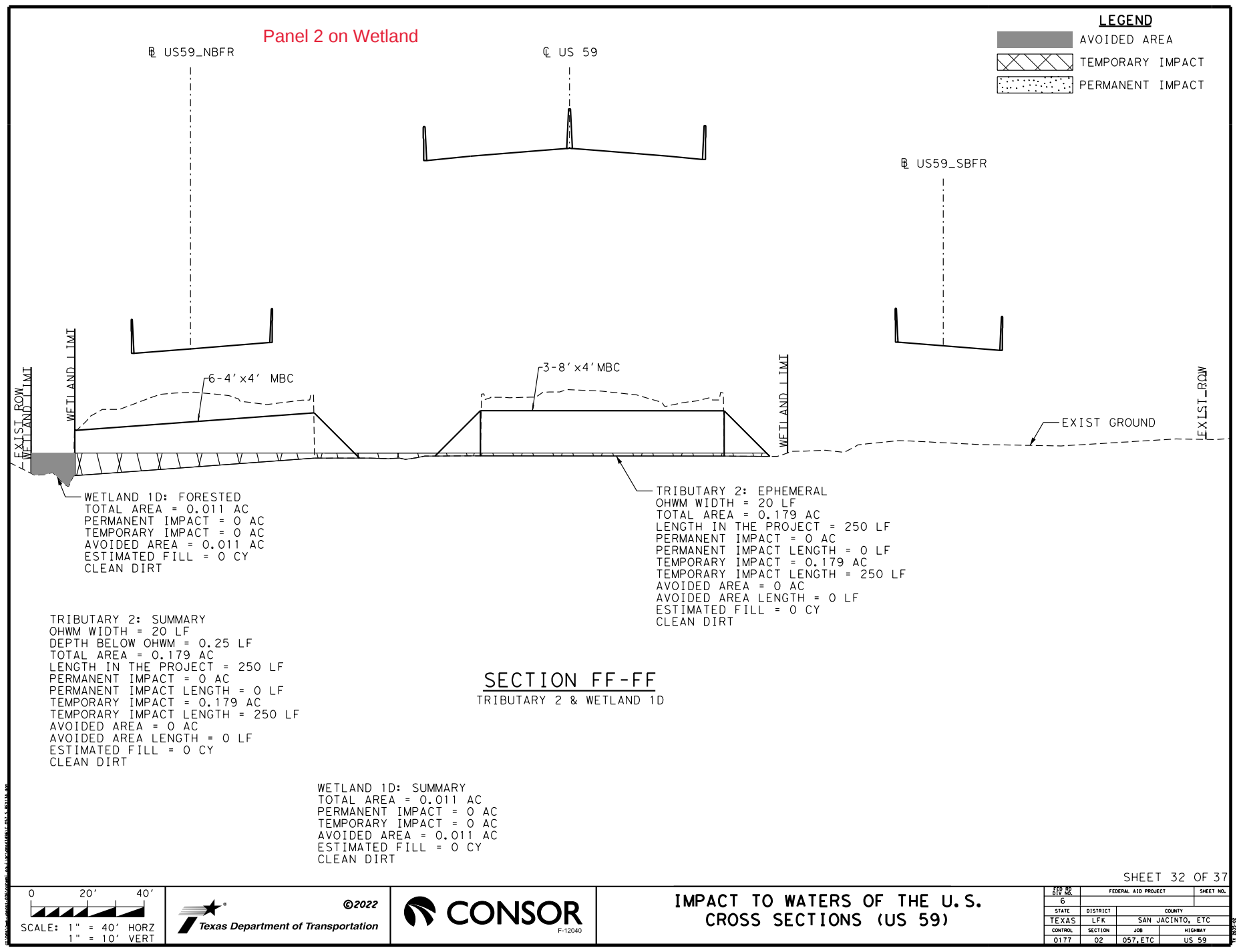


IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

SHEET NO.		FEDERAL AID PROJECT		SHEET NO.	
G					
STATE	DISTRICT	COUNTY			
TEXAS	LFK	SAN JACINTO, ETC			
CONTROL	SECTION	JOB	HIGHWAY		
0177	02	057, ETC	US 59		

SHEET 30 OF 37

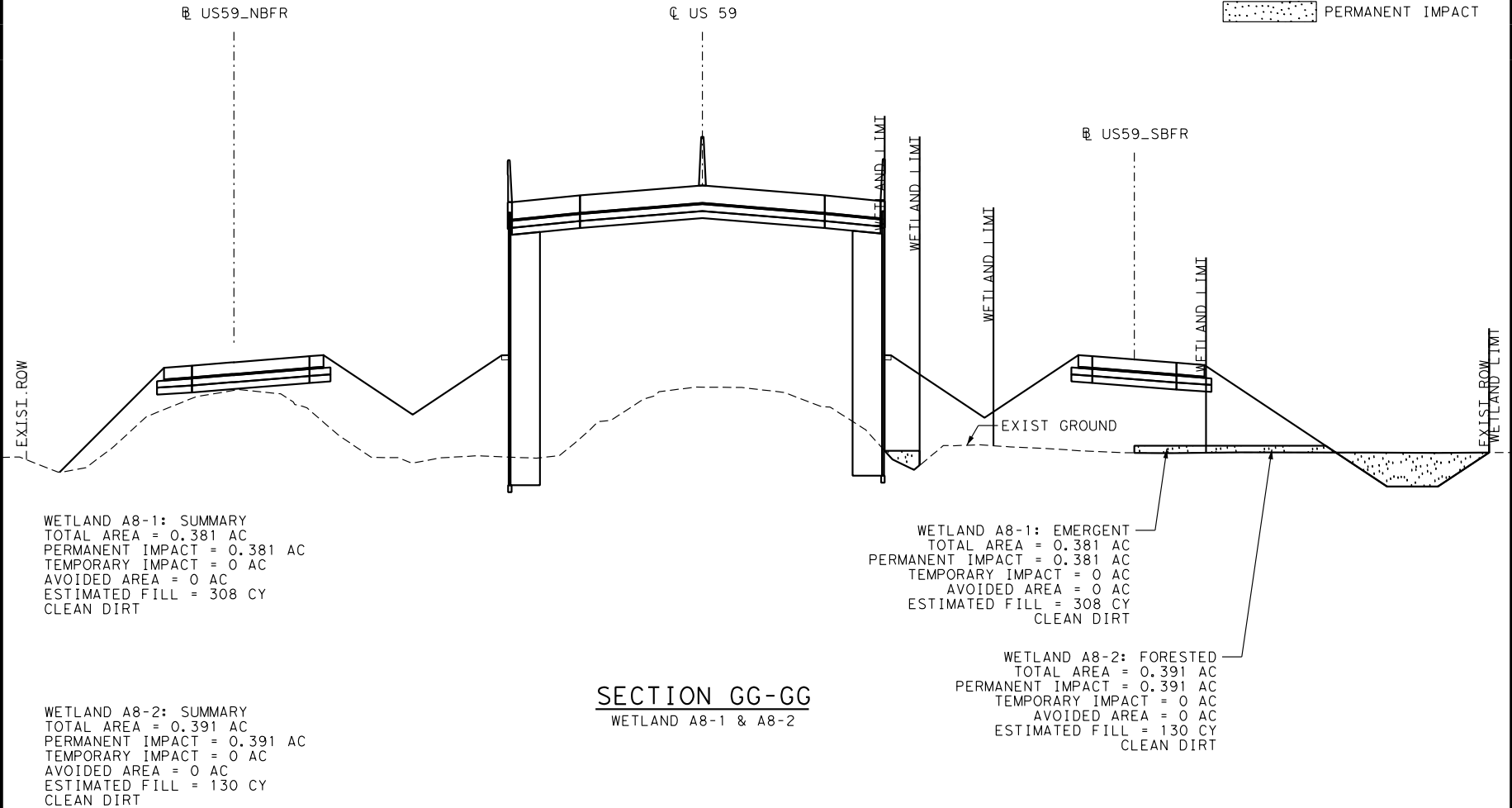




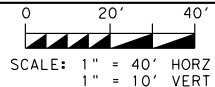
Panel 2 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT



SHEET 33 OF 37



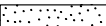
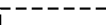
IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)

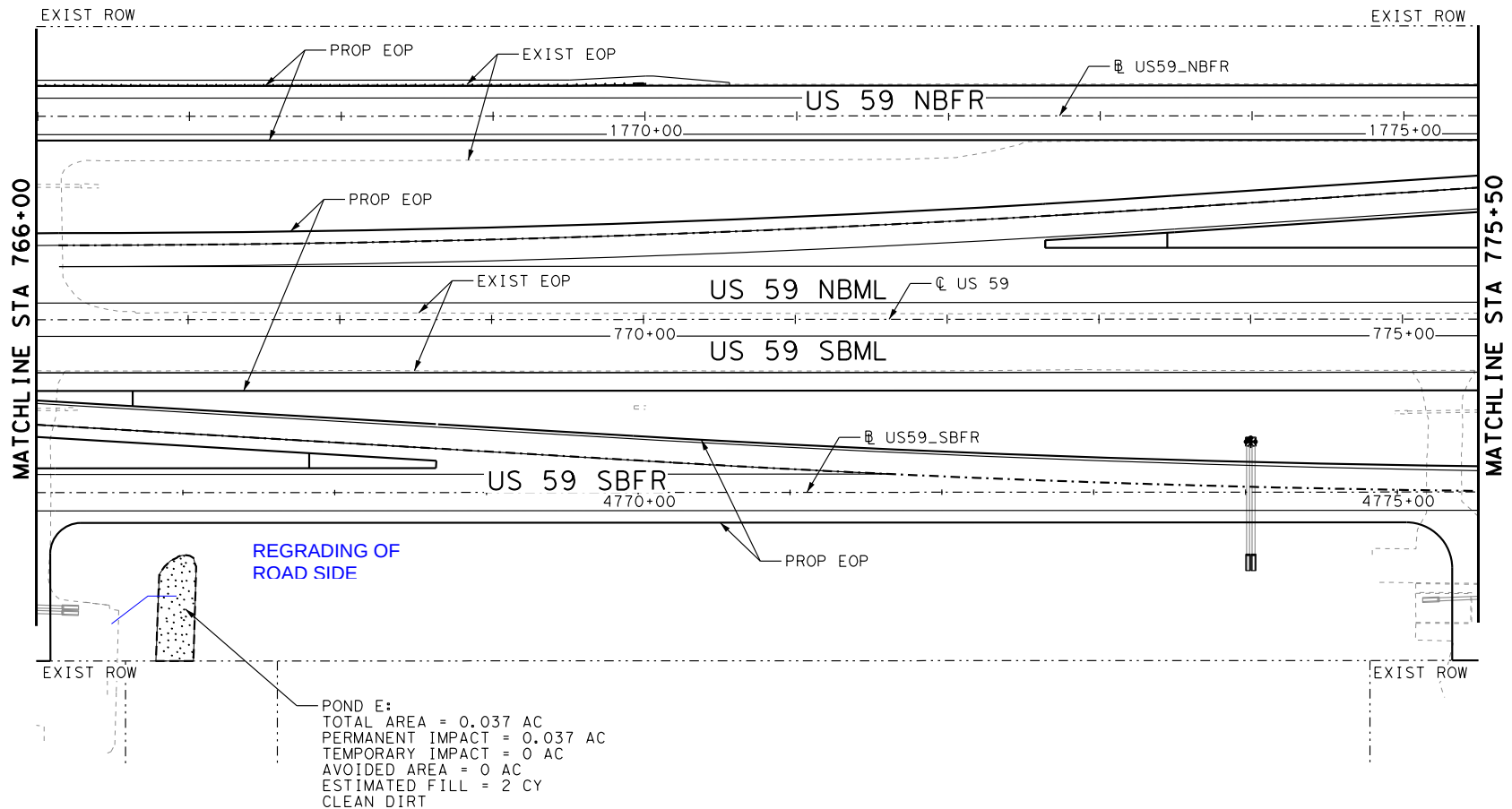
FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

POND E: SUMMARY
TOTAL AREA = 0.037 AC
PERMANENT IMPACT = 0.037 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0 AC
ESTIMATED FILL = 2 CY
CLEAN DIRT

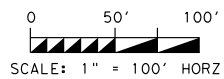
Panel 2 on Wetland

LEGEND

	AVOIDED AREA
	TEMPORARY IMPACT
	PERMANENT IMPACT
	WETLAND BOUNDARY



SHEET 34 OF 37



IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 766+00 TO STA 777+50)

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

WETLAND A27: SUMMARY
TOTAL AREA = 0.855 AC
PERMANENT IMPACT = 0.208 AC
TEMPORARY IMPACT = 0.041 AC
AVOIDED AREA = 0.606 AC
ESTIMATED FILL = 40 CY
CLEAN DIRT AND 200 CY CONCRETE

WETLAND A27: EMERGENT
TOTAL AREA = 0.855 AC
PERMANENT IMPACT = 0.208 AC
TEMPORARY IMPACT = 0.041 AC
AVOIDED AREA = 0.606 AC
ESTIMATED FILL = 40 CY
CLEAN DIRT AND 200 CY CONCRETE

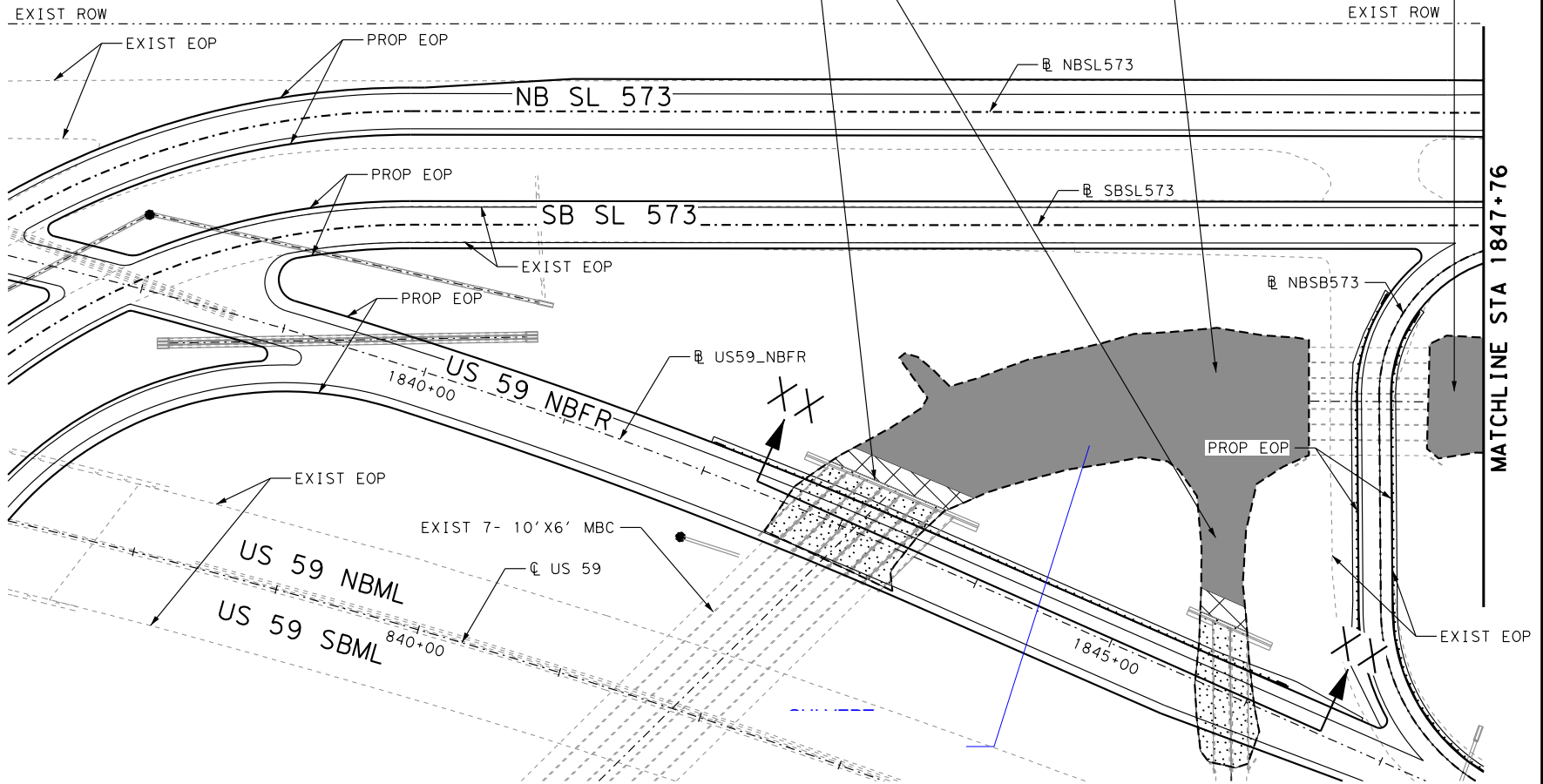
LEGEND

- AVOIDED AREA
- TEMPORARY IMPACT
- PERMANENT IMPACT
- WETLAND BOUNDARY

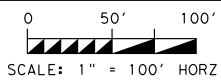
WETLAND A28: EMERGENT
TOTAL AREA = 0.286 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.286 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

WORK CONSIST OF REMOVING EXISTING WING WALLS AND EXTENDING THE 7-10'X6' MBC 70 LF AND EXTENDING THE 2-10'X5' MBC 100 LF. PERMANENT IMPACT ARE THE EXTENSIONS OF THE EXISTING BOX CULVERTS. NO ADDITIONAL TEMPORARY IMPACT ARE ANTICIPATED.

Panel 1 on Wetland



SHEET 35 OF 37

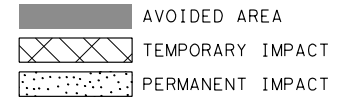


IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 1837+07 TO STA 1847+76)

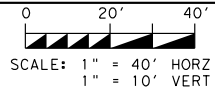
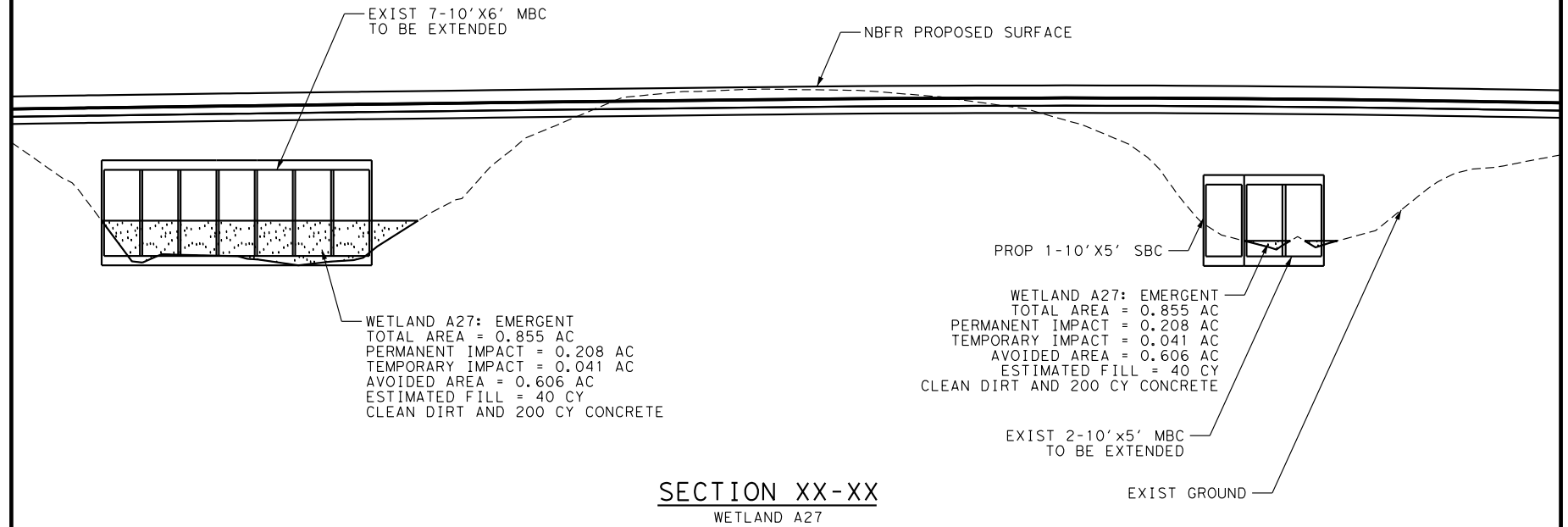
FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LKF	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

Panel 1 on Wetland

LEGEND



WETLAND A27: SUMMARY
TOTAL AREA = 0.855 AC
PERMANENT IMPACT = 0.208 AC
TEMPORARY IMPACT = 0.041 AC
AVOIDED AREA = 0.606 AC
ESTIMATED FILL = 40 CY
CLEAN DIRT AND 200 CY CONCRETE



**IMPACT TO WATERS OF THE U.S.
CROSS SECTIONS (US 59)**

SHEET 36 OF 37

FEDERAL AID PROJECT		SHEET NO.
STATE	DISTRICT	COUNTY
TEXAS	LFK	SAN JACINTO, ETC
CONTROL	SECTION	JOB HIGHWAY
0177	02	057, ETC US 59

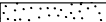
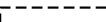
WETLAND A28: SUMMARY
TOTAL AREA = 0.286 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.286 AC
ESTIMATED FILL = 0 CY
CLEAN DIRT

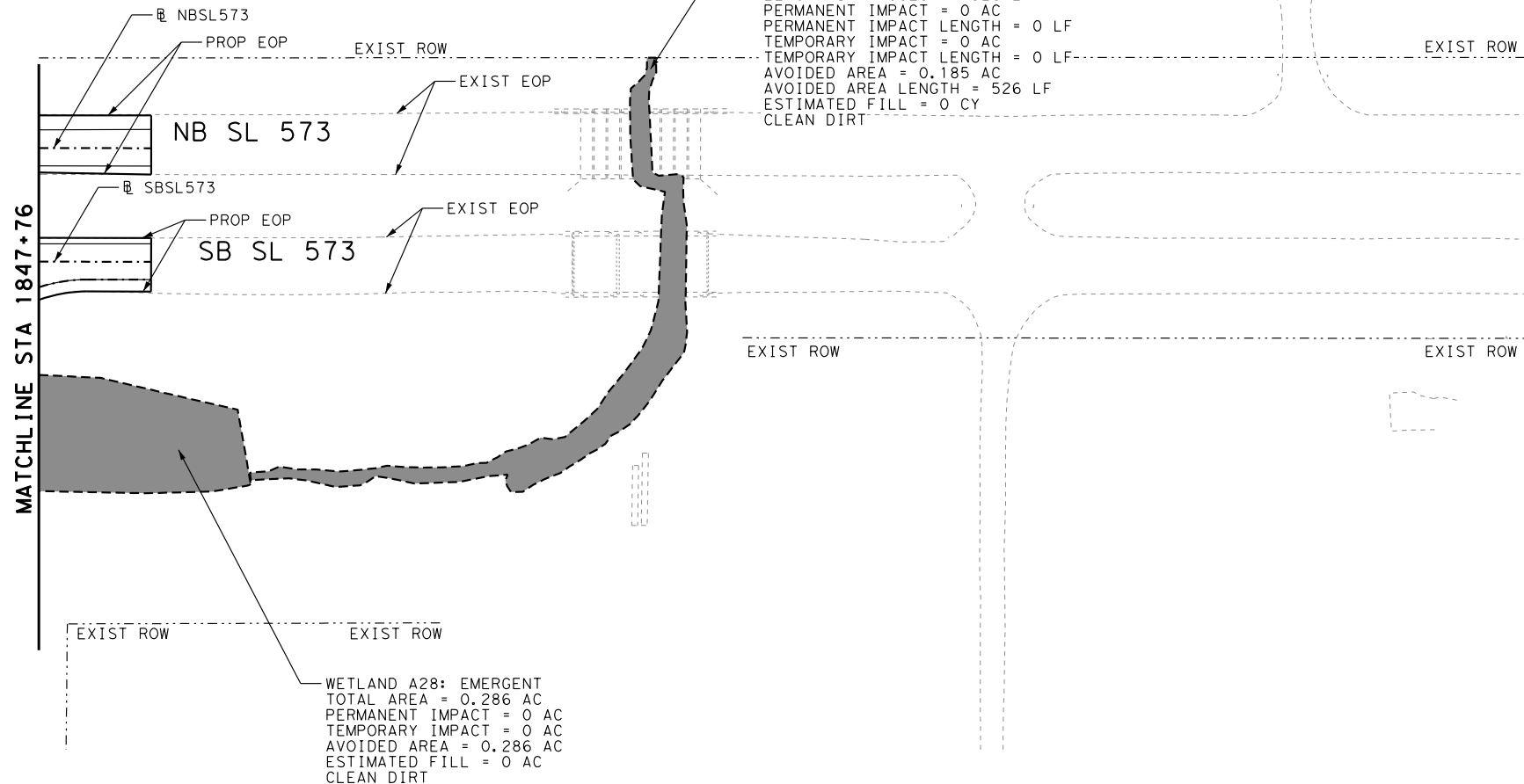
Panel 1 on Wetland

TRIBUTARY 1: SUMMARY
OHWM WIDTH = 16 LF
DEPTH BELOW OHWM = 0.5 LF
TOTAL AREA = 0.185 AC
LENGTH IN PROJECT = 526 LF
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0 AC
TEMPORARY IMPACT LENGTH = 0 LF
AVOIDED AREA = 0.185 AC
AVOIDED AREA LENGTH = 526 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

TRIBUTARY 1: PERENNIAL
OHWM WIDTH = 16 LF
DEPTH BELOW OHWM = 0.5 LF
TOTAL AREA = 0.185 AC
LENGTH IN PROJECT = 526 LF
PERMANENT IMPACT = 0 AC
PERMANENT IMPACT LENGTH = 0 LF
TEMPORARY IMPACT = 0 AC
TEMPORARY IMPACT LENGTH = 0 LF
AVOIDED AREA = 0.185 AC
AVOIDED AREA LENGTH = 526 LF
ESTIMATED FILL = 0 CY
CLEAN DIRT

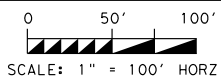
LEGEND

-  AVOIDED AREA
-  TEMPORARY IMPACT
-  PERMANENT IMPACT
-  WETLAND BOUNDARY



WETLAND A28: EMERGENT
TOTAL AREA = 0.286 AC
PERMANENT IMPACT = 0 AC
TEMPORARY IMPACT = 0 AC
AVOIDED AREA = 0.286 AC
ESTIMATED FILL = 0 AC
CLEAN DIRT

SHEET 37 OF 37



IMPACT TO WATERS OF THE U.S.
(US 59)
(STA 1847+76 TO END)

FEDERAL AID PROJECT		SHEET NO.	
STATE	DISTRICT	COUNTY	
TEXAS	LFK	SAN JACINTO, ETC	
CONTROL	SECTION	JOB	HIGHWAY
0177	02	057, ETC	US 59

7	Tributary 2	Ephemeral stream	30.38724 N -95.06334 W	0.179	250	Yes	No	0.179	250.00					0.179	250.00							No	
7	Wetland A8-1	Palustrine emergent	30.38726 N -95.06404 W	0.381		Yes	No				0.381		308.00				0.381		308.00	SP (404 only, 404/10)		No	Construction of southbound frontage road (SBFR)
7	Wetland A8-2	Palustrine forested	30.08699 N, -95.06440 W	0.391		Yes	No				0.391		130.00				0.391		130.00	SP (404 only, 404/10)		No	Construction of southbound frontage road (SBFR)
7	Pond E	Pond/Impoundment	30.38537 N -95.06529 W	0.037		Yes	No				0.037		2.00				0.037		2.00	SP (404 only, 404/10)		No	Regrading of road side ditch
8	Wetland A27	Palustrine emergent	30.36592 N, -95.97619 W	0.855		Yes	No	0.041			0.208		240.00	0.041			0.208		240.00	SP (404 only, 404/10)		Yes	Culvert extension
8	Wetland A28	Palustrine scrub-shrub	30.36558 N, -9507638 W	0.286		Yes	No															No	
8	Tributary 1	Perennial stream	30.36459 N -95.07672 W	0.185	526	Yes	No															No	
Total				12.989	1738			3.555	1074.00	5.952		3432.08	3.555	944.00	5.952		3432.08						