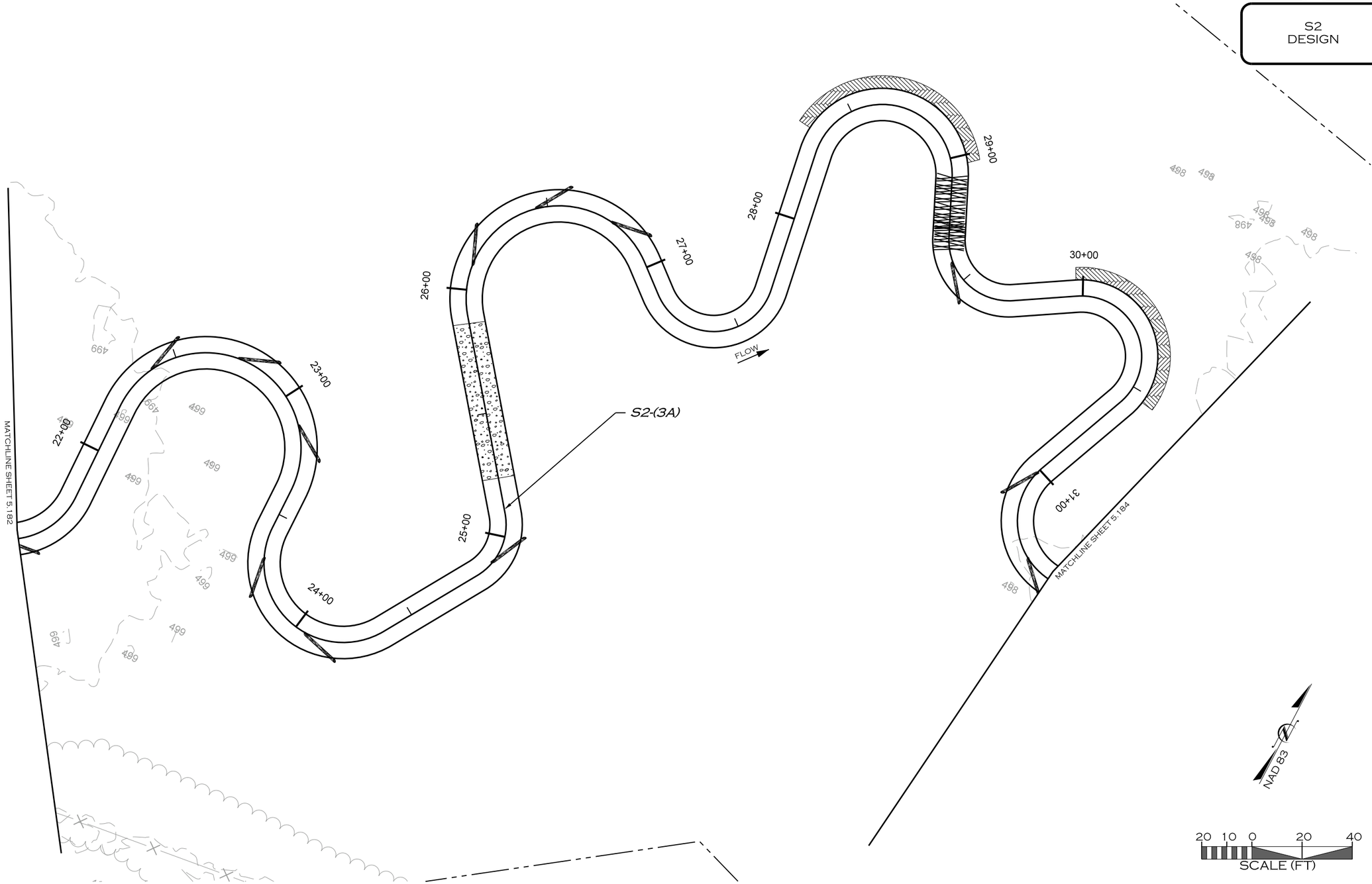
VOLUME NO.
VOL. 1

SHEET NO.
5.183

S2
DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

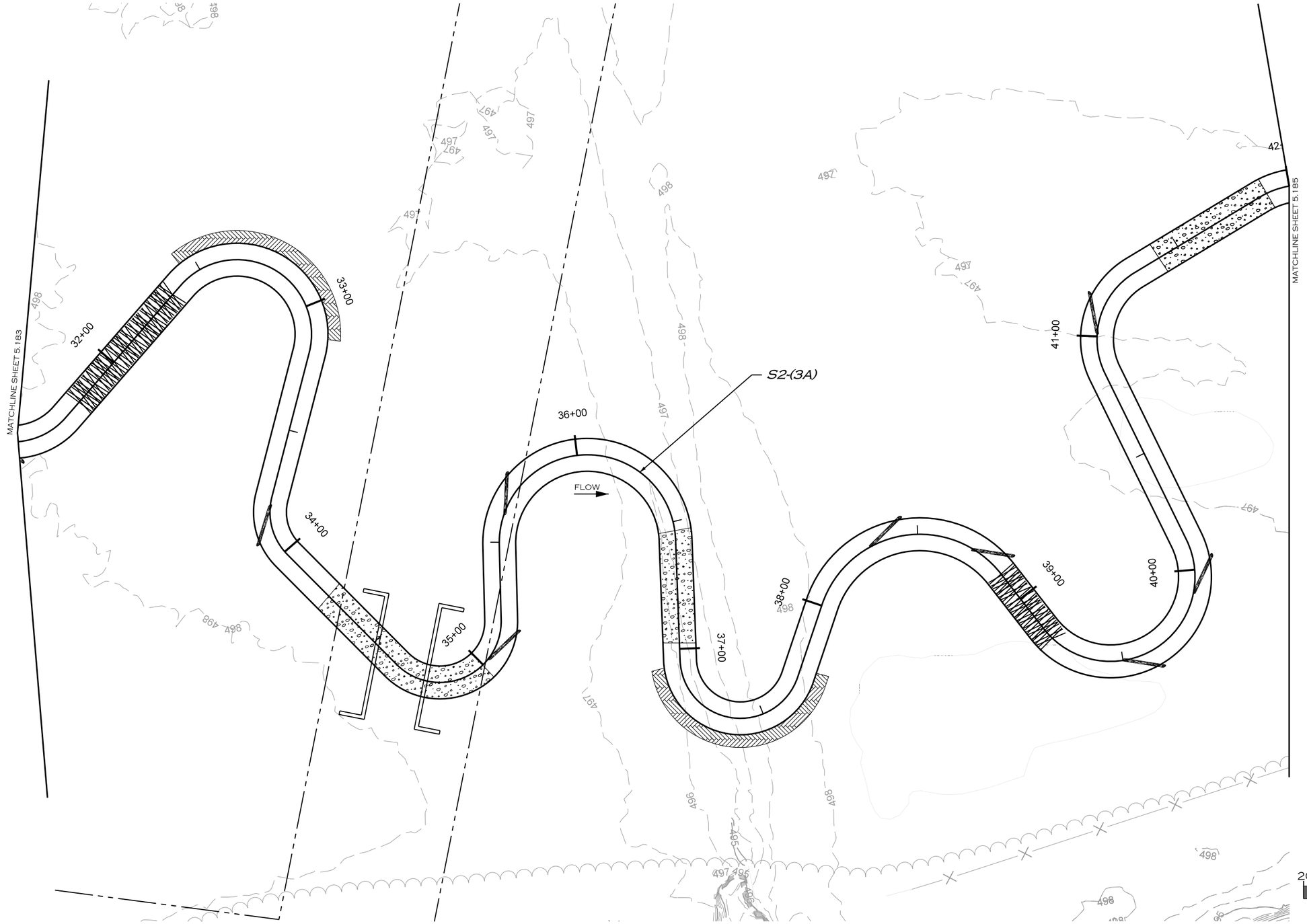
PROJECT ENGINEER

NOT FOR CONSTRUCTION
THESE DRAWINGS WERE ISSUED BY
KEVIN TWEEDY PE#113620
FOR REGULATORY REVIEW
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MKOAN

VOLUME NO. VOL. 1 | SHEET NO. 5.184

S2 DESIGN



NAD 83

20 10 0 20 40
SCALE (FT)

REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

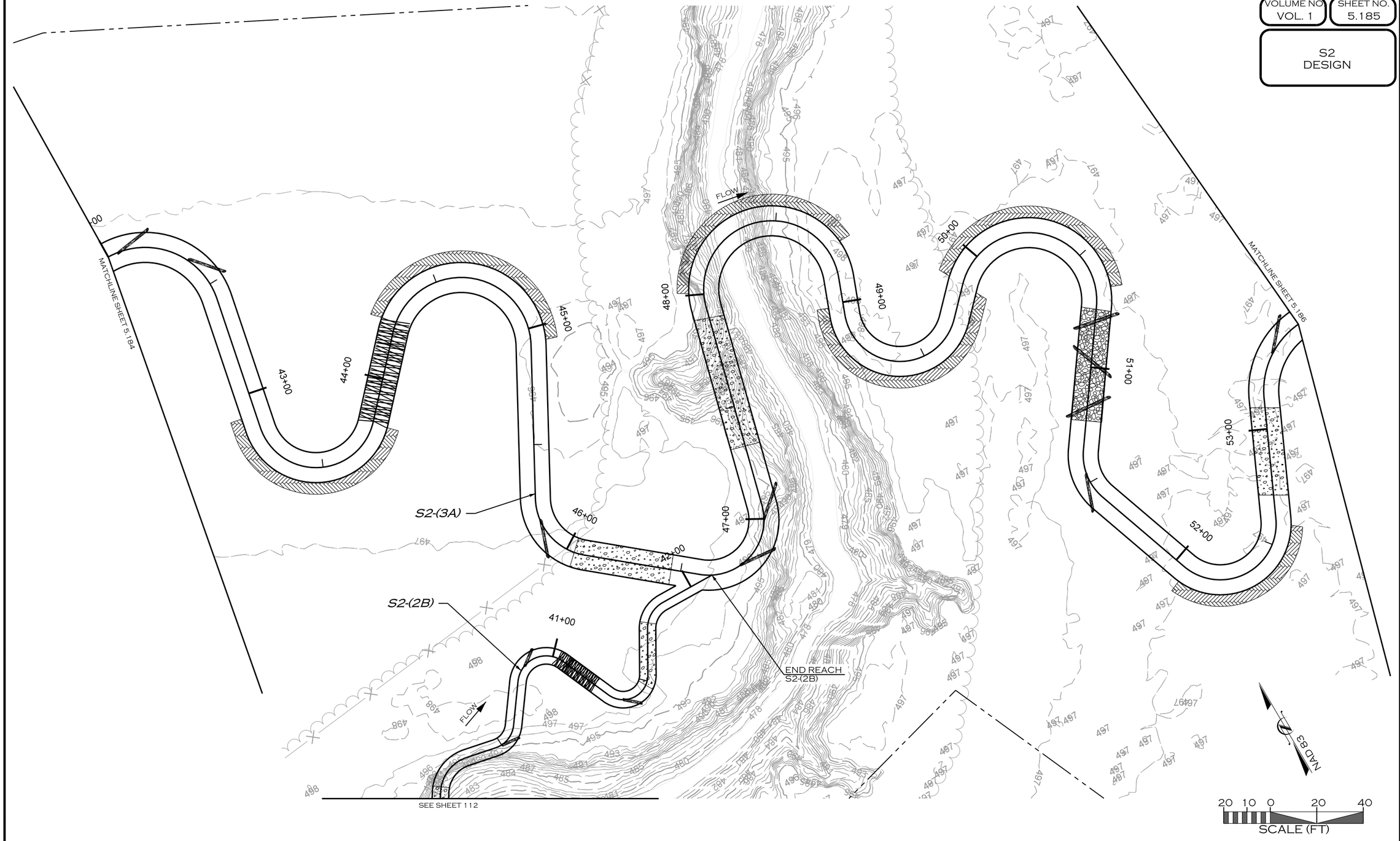
PROJECT ENGINEER

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VOLUME NO. VOL. 1 | SHEET NO. 5.185

S2 DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

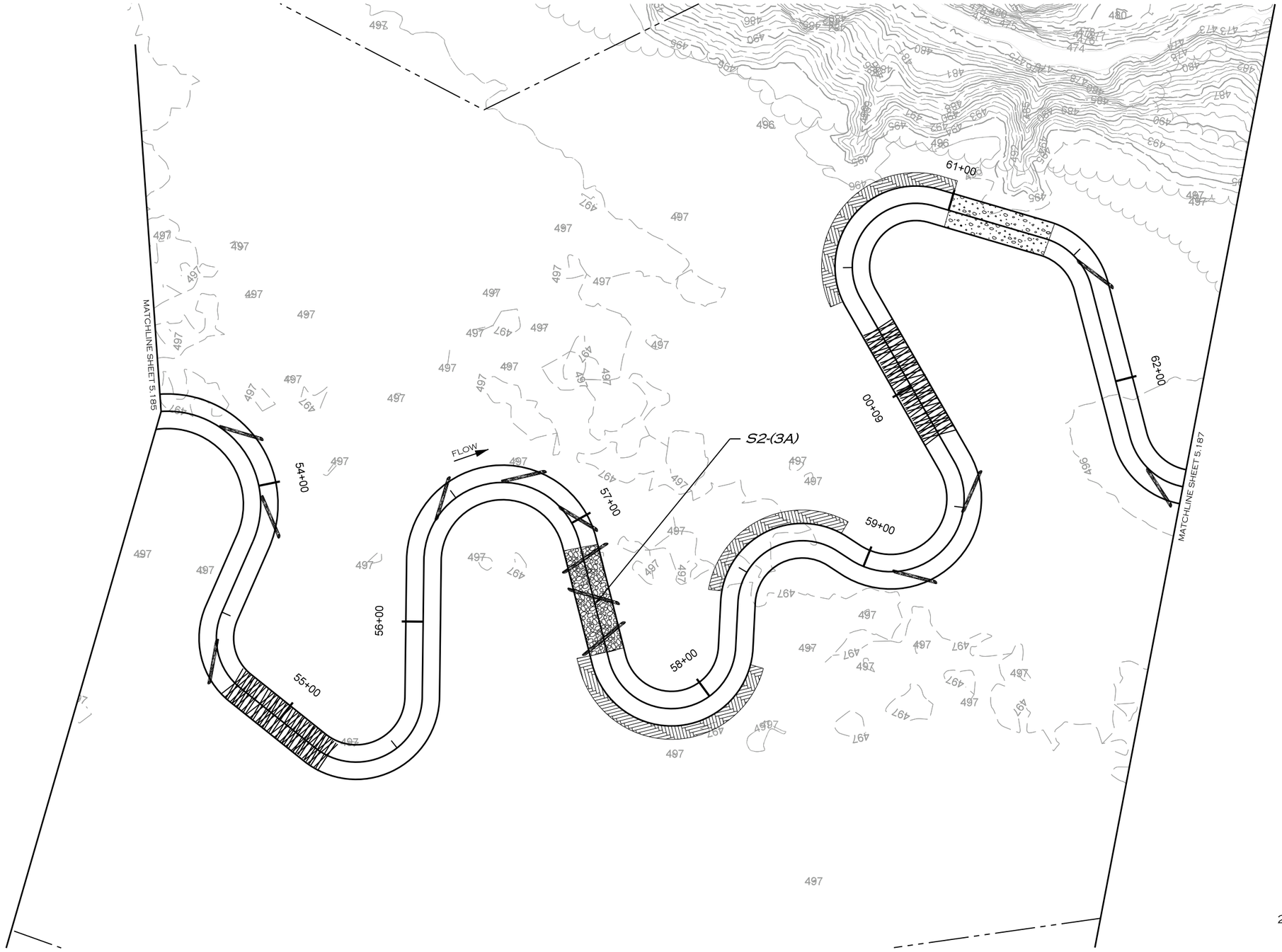
PROJECT ENGINEER

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JRICON

VOLUME NO. VOL. 1 | SHEET NO. 5.186

S2 DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

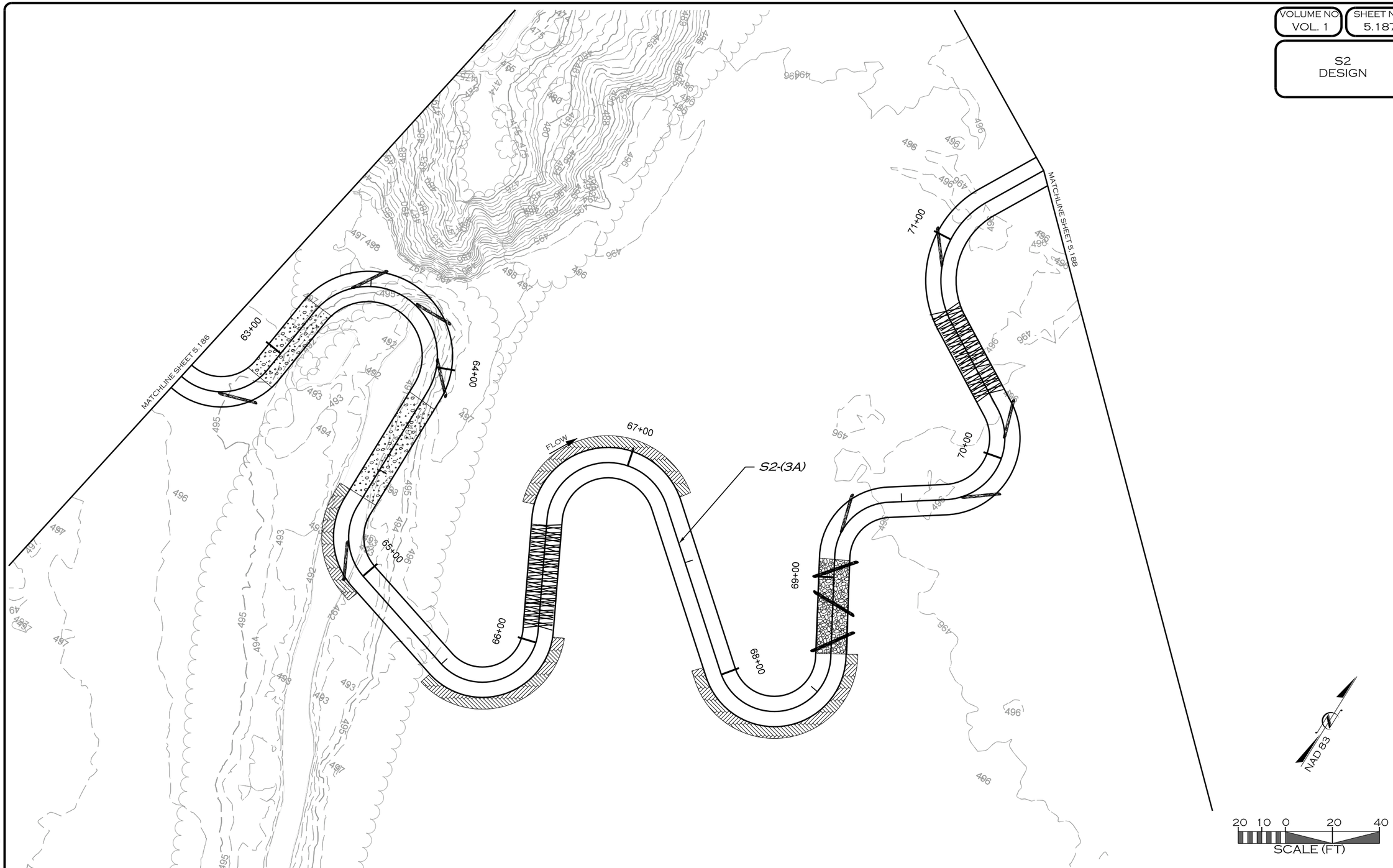
PROJECT ENGINEER

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KEVIN TWEEDY PE#113620
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PURPOSES ONLY

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MKOCH

VOLUME NO. VOL. 1 | SHEET NO. 5.187

S2 DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

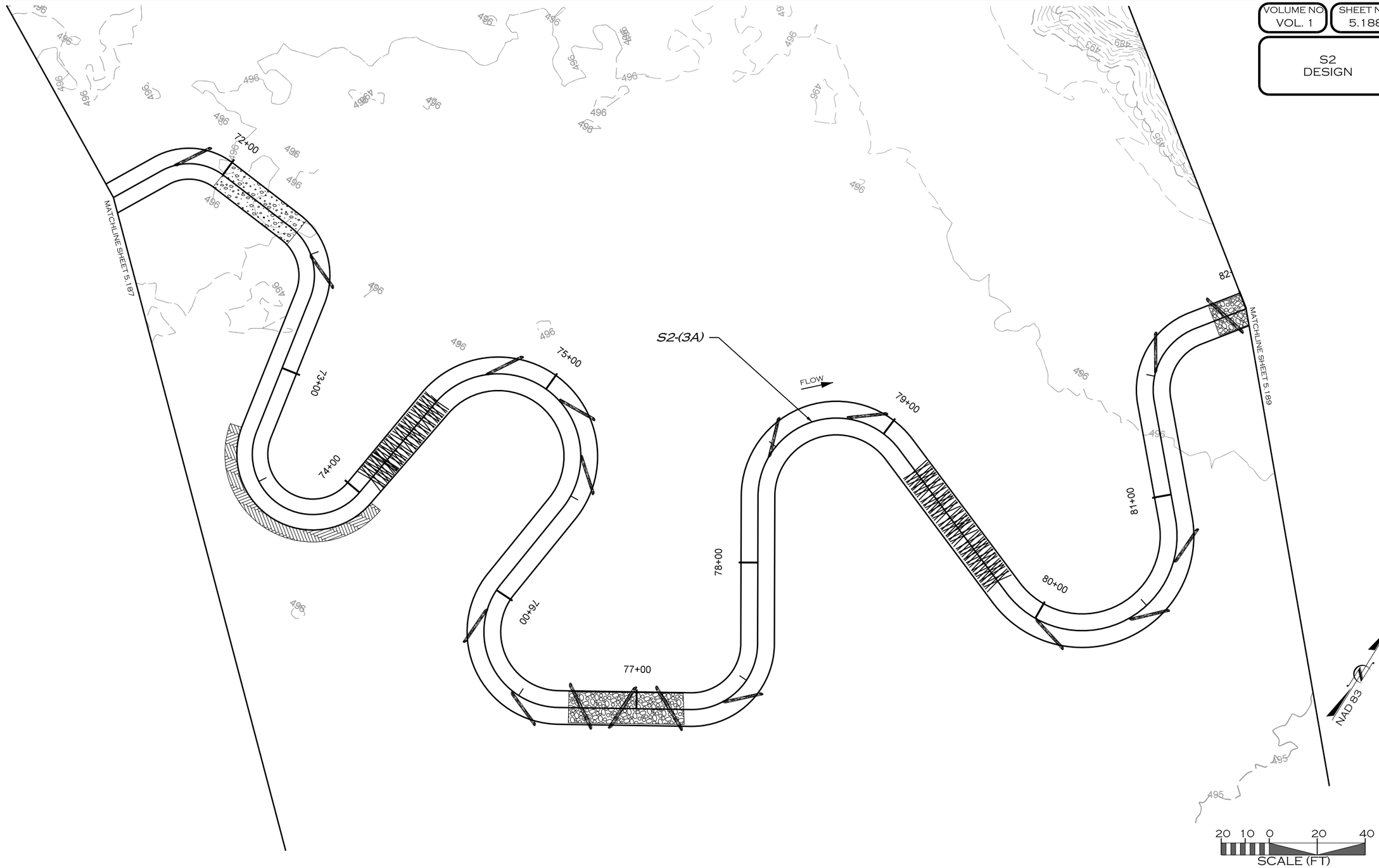
PROJECT ENGINEER

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MKOEN

VOLUME NO. VOL. 1 | SHEET NO. 5.188

S2 DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

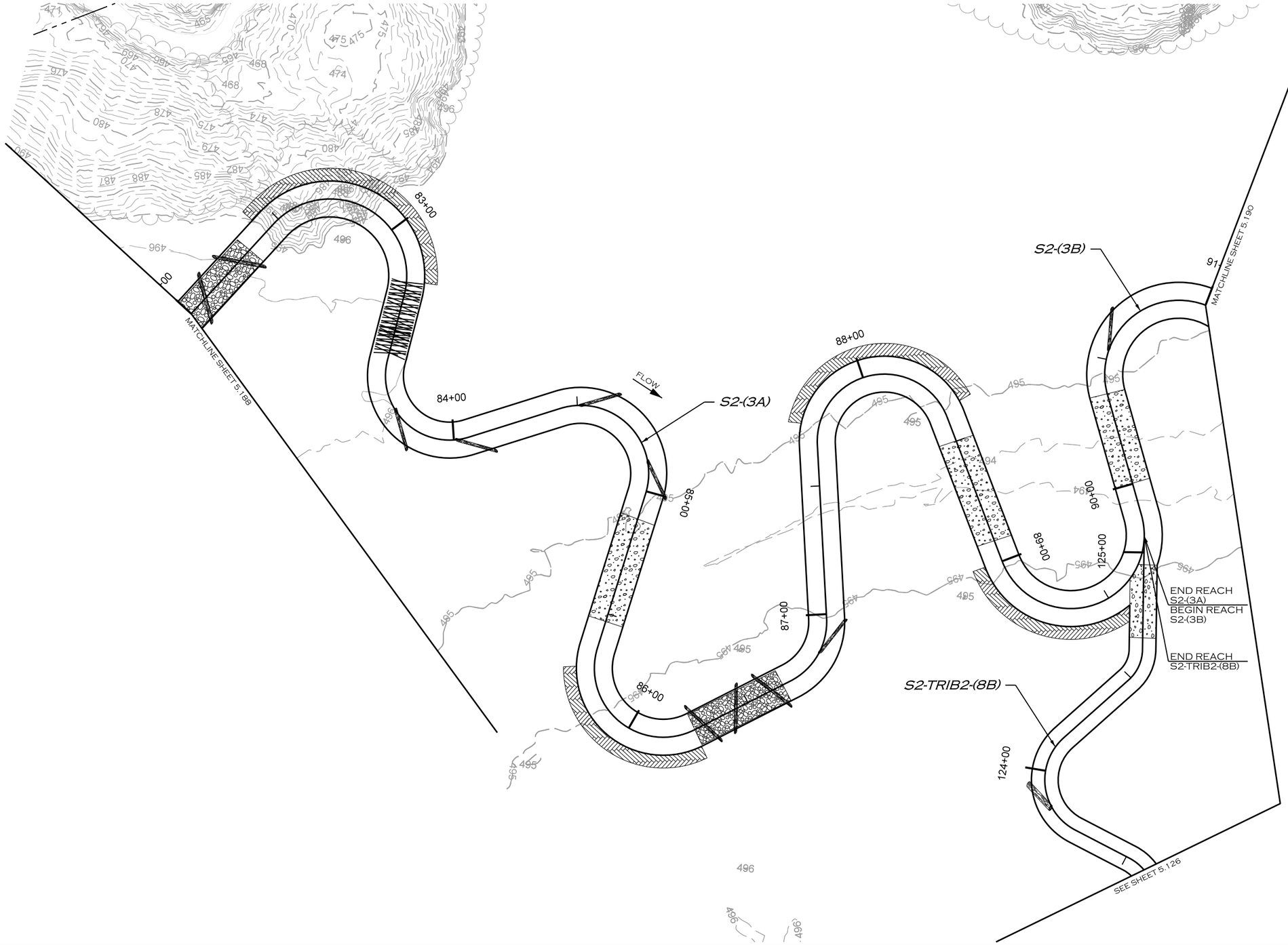
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MKOEN

VOLUME NO. VOL. 1 | SHEET NO. 5.189

S2
S2-TRIB2
DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

PROJECT ENGINEER

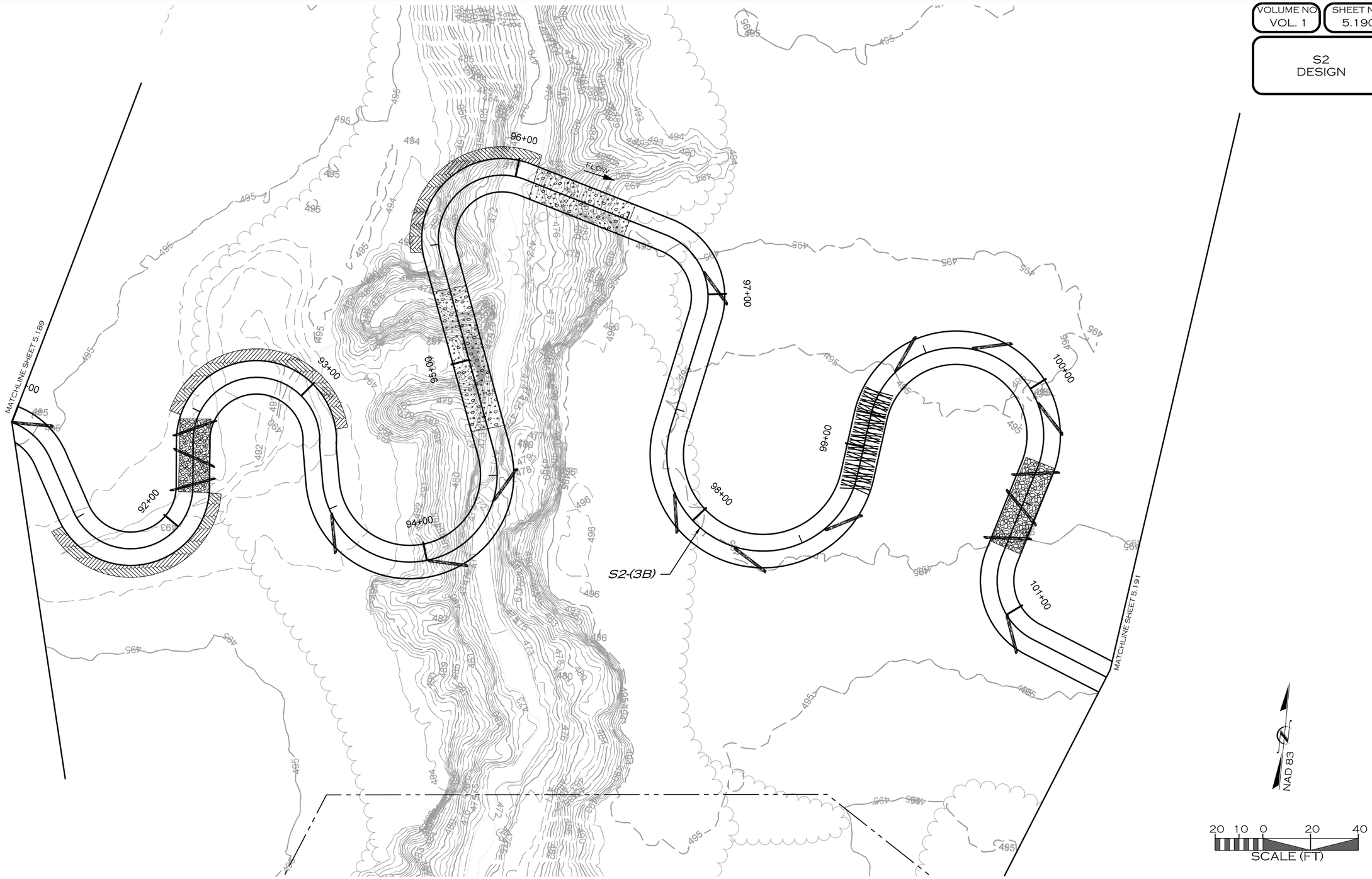
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MKOON

VOLUME NO. VOL. 1

SHEET NO. 5.190

S2
DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

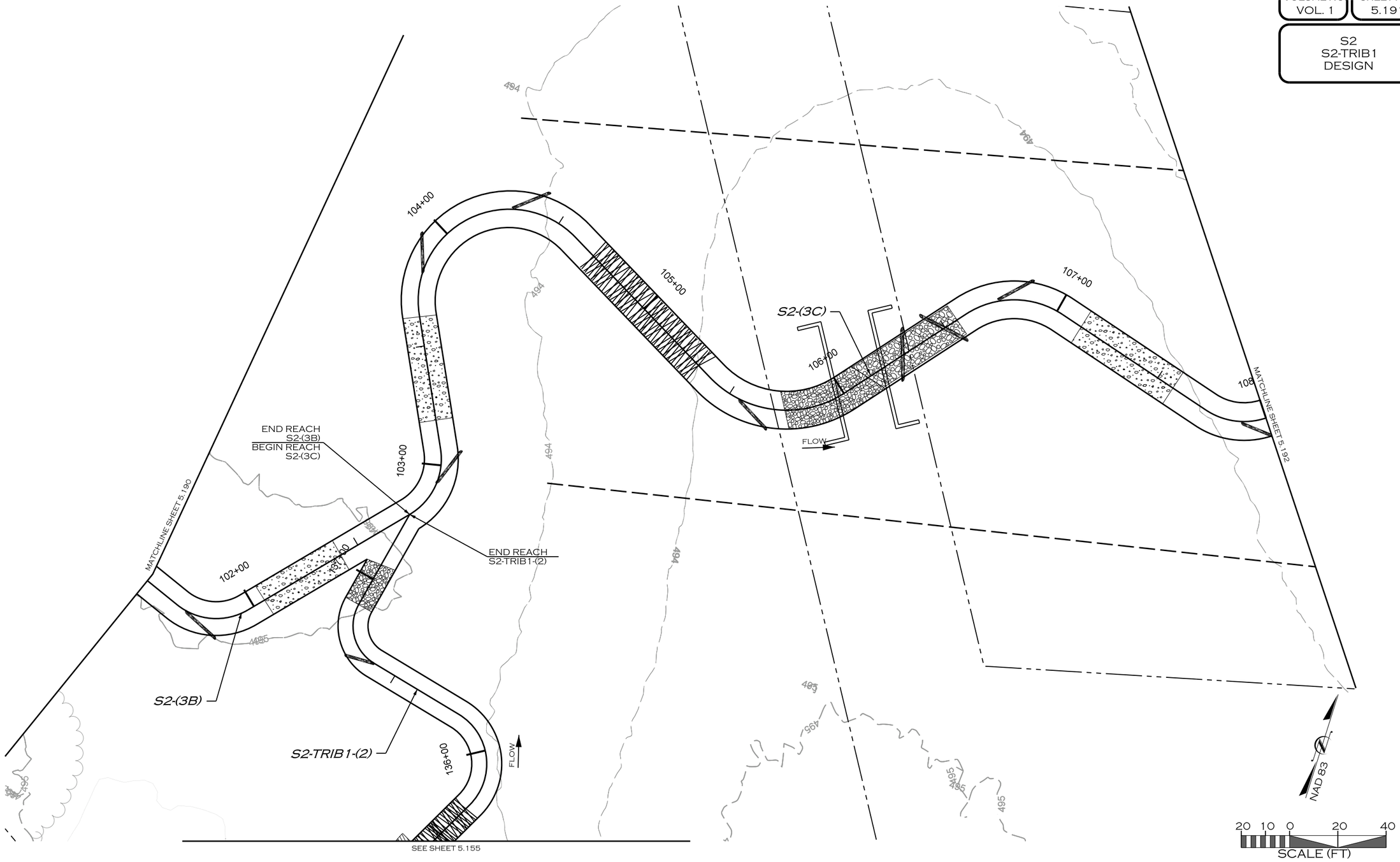
PROJECT ENGINEER

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FOR REGULATORY REVIEW
PURPOSES ONLY

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MICRON

VOLUME NO. VOL. 1 | SHEET NO. 5.191

S2
S2-TRIB1
DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

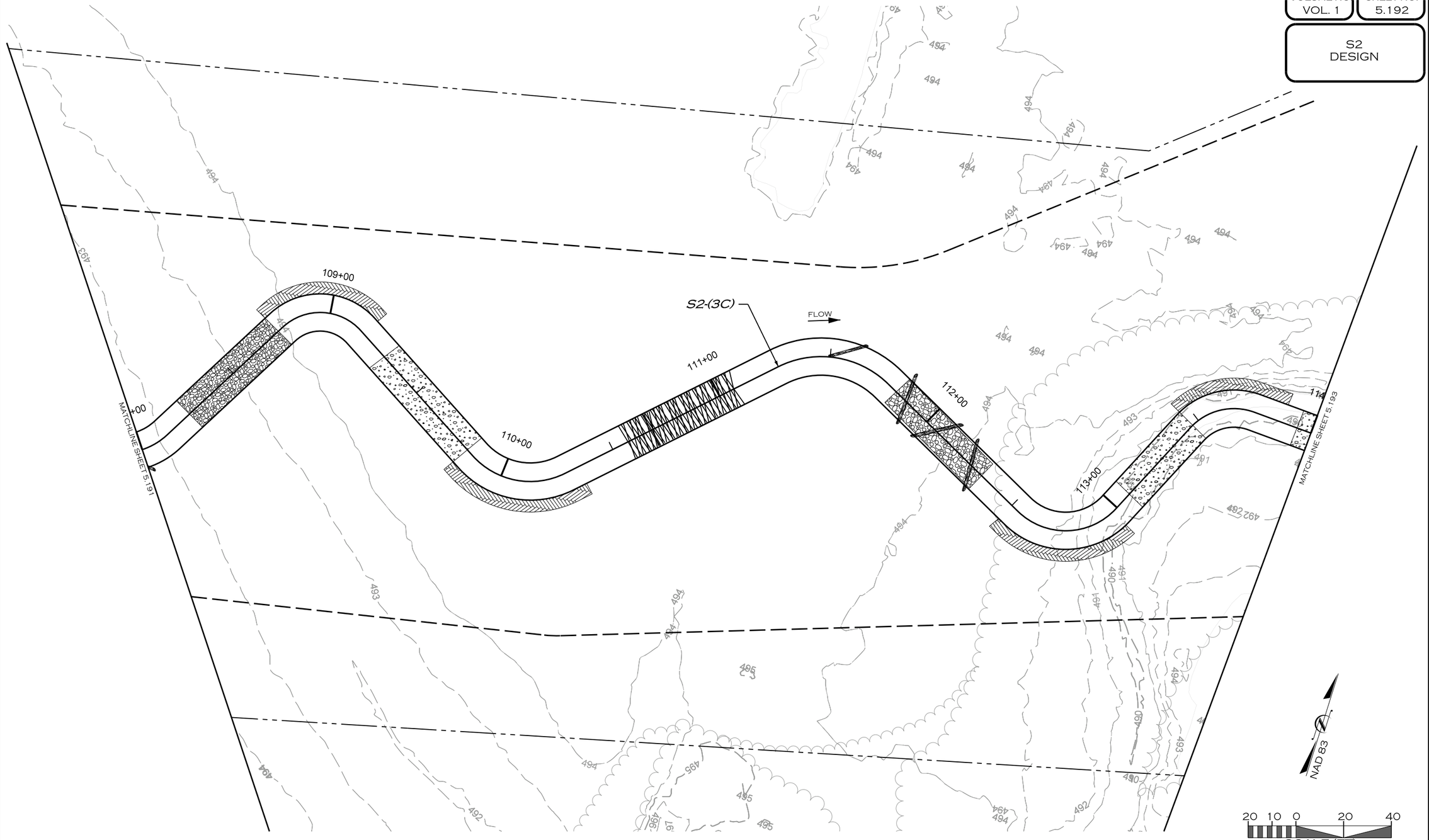
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JRICON

VOLUME NO. VOL. 1 | SHEET NO. 5.192

S2 DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

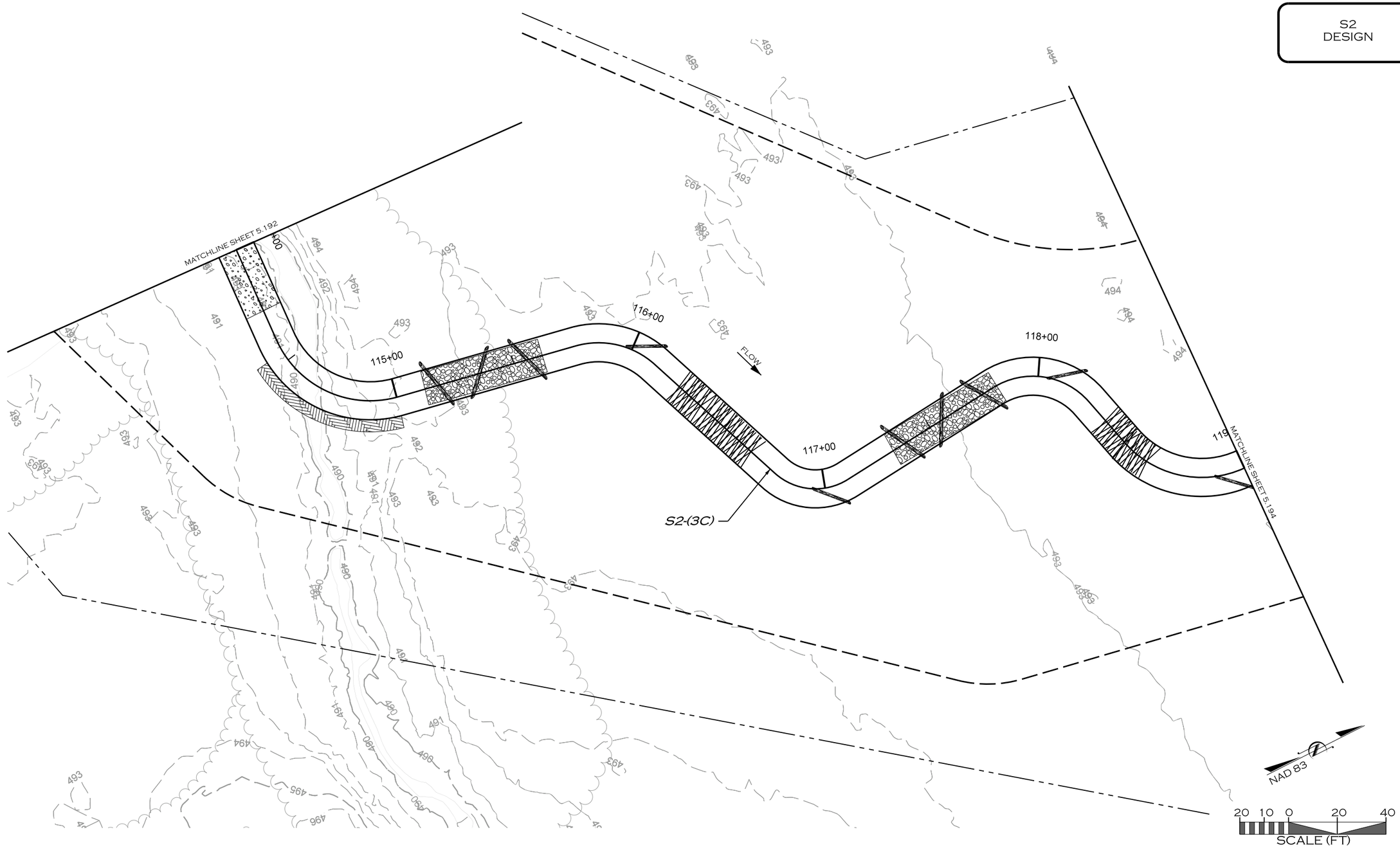
PROJECT ENGINEER

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THESE DRAWINGS WERE ISSUED BY
KEVIN TWEEDY PE#113620
FOR REGULATORY REVIEW
PURPOSES ONLY

7/11/2019
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VOLUME NO. VOL. 1 | SHEET NO. 5.193

S2 DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

PROJECT ENGINEER

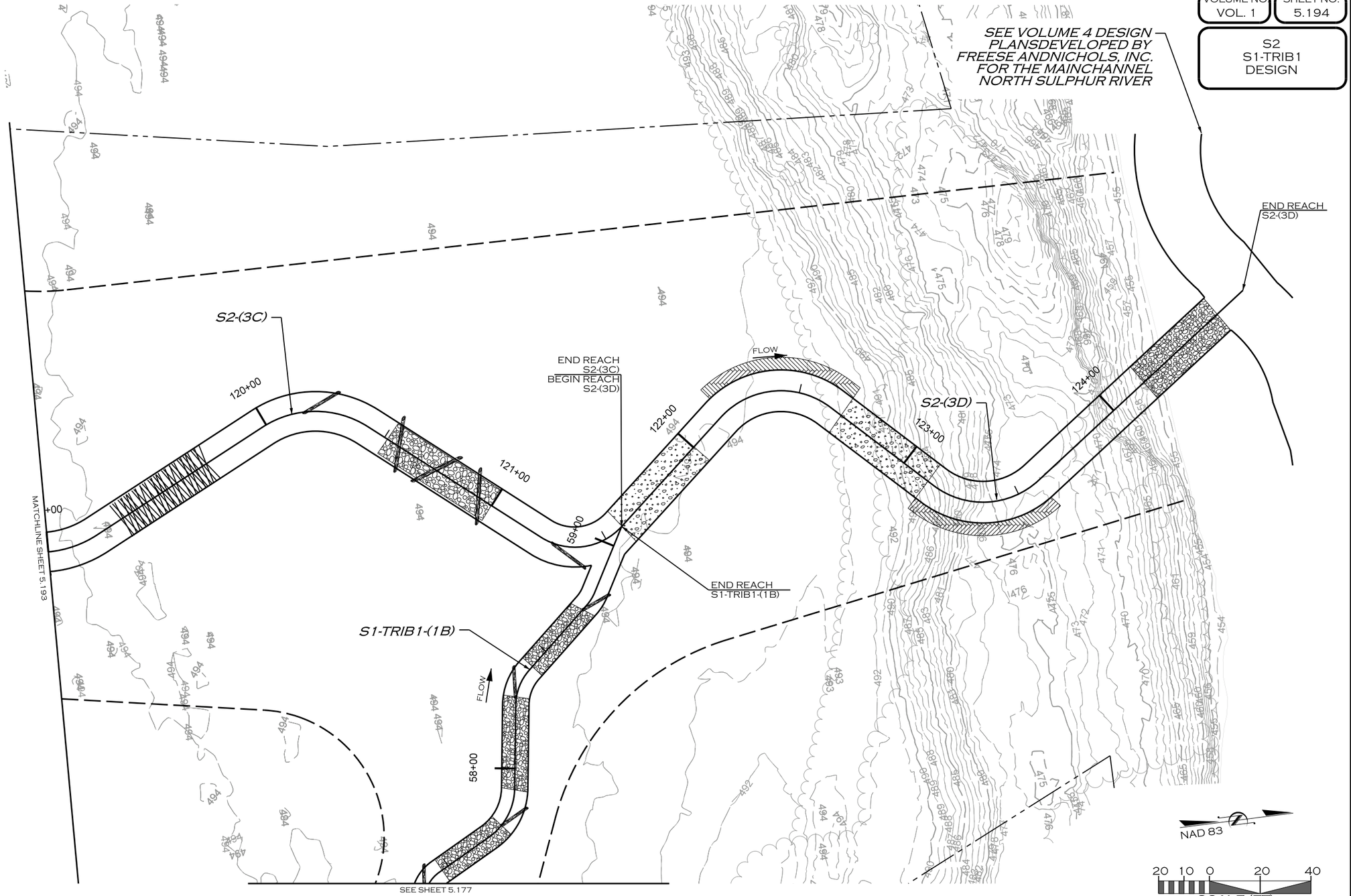
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KEVIN TWEEDY PE#113620
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PURPOSES ONLY

7/11/2019
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MICRO

VOLUME NO.	SHEET NO.
VOL. 1	5.194

S2
S1-TRIB1
DESIGN

SEE VOLUME 4 DESIGN PLANSDEVELOPED BY FREESE ANDNICHOLS, INC. FOR THE MAINCHANNEL NORTH SULPHUR RIVER



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

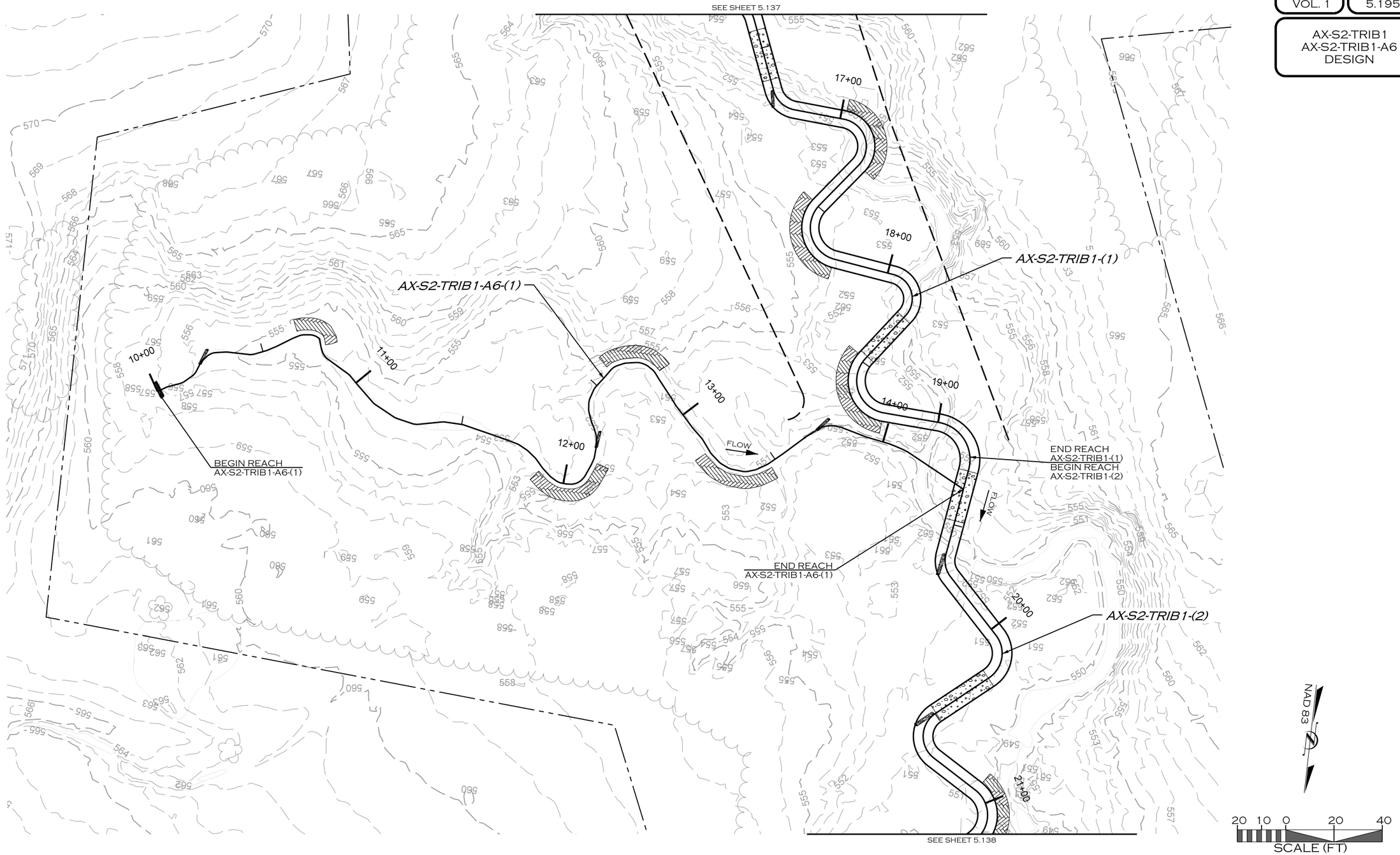
PROJECT ENGINEER

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KEVIN TWEEDY PE#113620
FOR REGULATORY REVIEW
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VOLUME NO. VOL. 1 | SHEET NO. 5.195

AX-S2-TRIB1
AX-S2-TRIB1-A6
DESIGN



REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

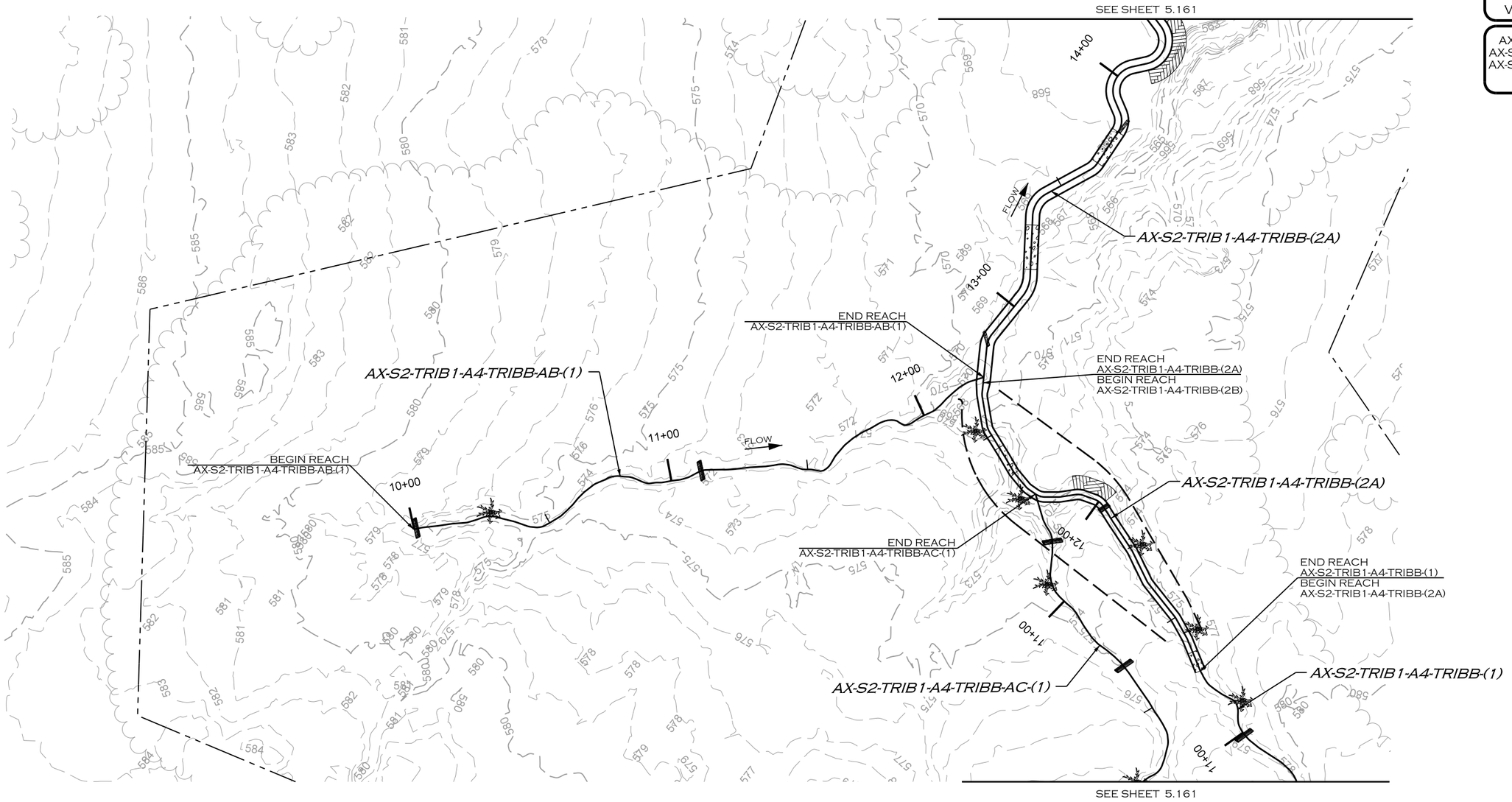
PROJECT ENGINEER

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KEVIN TWEEDY PE#113620
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JRIDGN

VOLUME NO.	SHEET NO.
VOL. 1	5.196

AX-S2-TRIB1-A4-TRIBB
AX-S2-TRIB1-A4-TRIBB-AB
AX-S2-TRIB1-A4-TRIBB-AC
DESIGN



NAD 83

20 10 0 20 40
SCALE (FT)

REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV	DATE
1	DRAFT DESIGN PLANS	EMP	KLT	7/01/19

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

PREPARED IN THE OFFICE OF:

ECOSYSTEM PLANNING & RESTORATION

17575 N. ELDRIDGE PARKWAY, BLDG. C
TOMBALL, TX 77377
TEXAS REGISTERED ENGINEERING FIRM F-14997

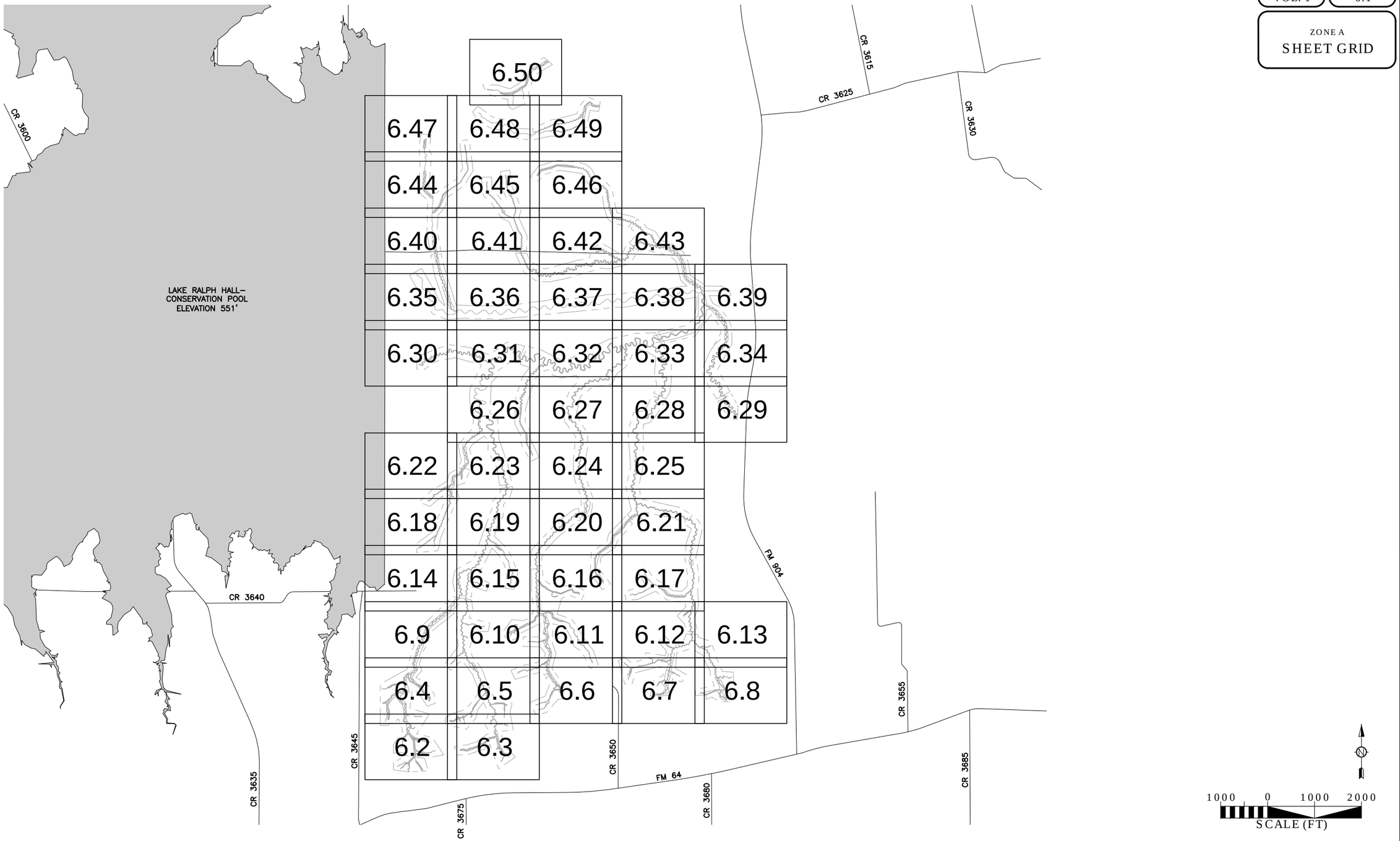
PROJECT ENGINEER

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KEVIN TWEEDY PE#113620
FOR REGULATORY REVIEW
PURPOSES ONLY

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MKOCH

VOLUME NO. VOL. 1 | SHEET NO. 6.1

ZONE A
SHEET GRID



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USER: Dickman, Brian

REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 870-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

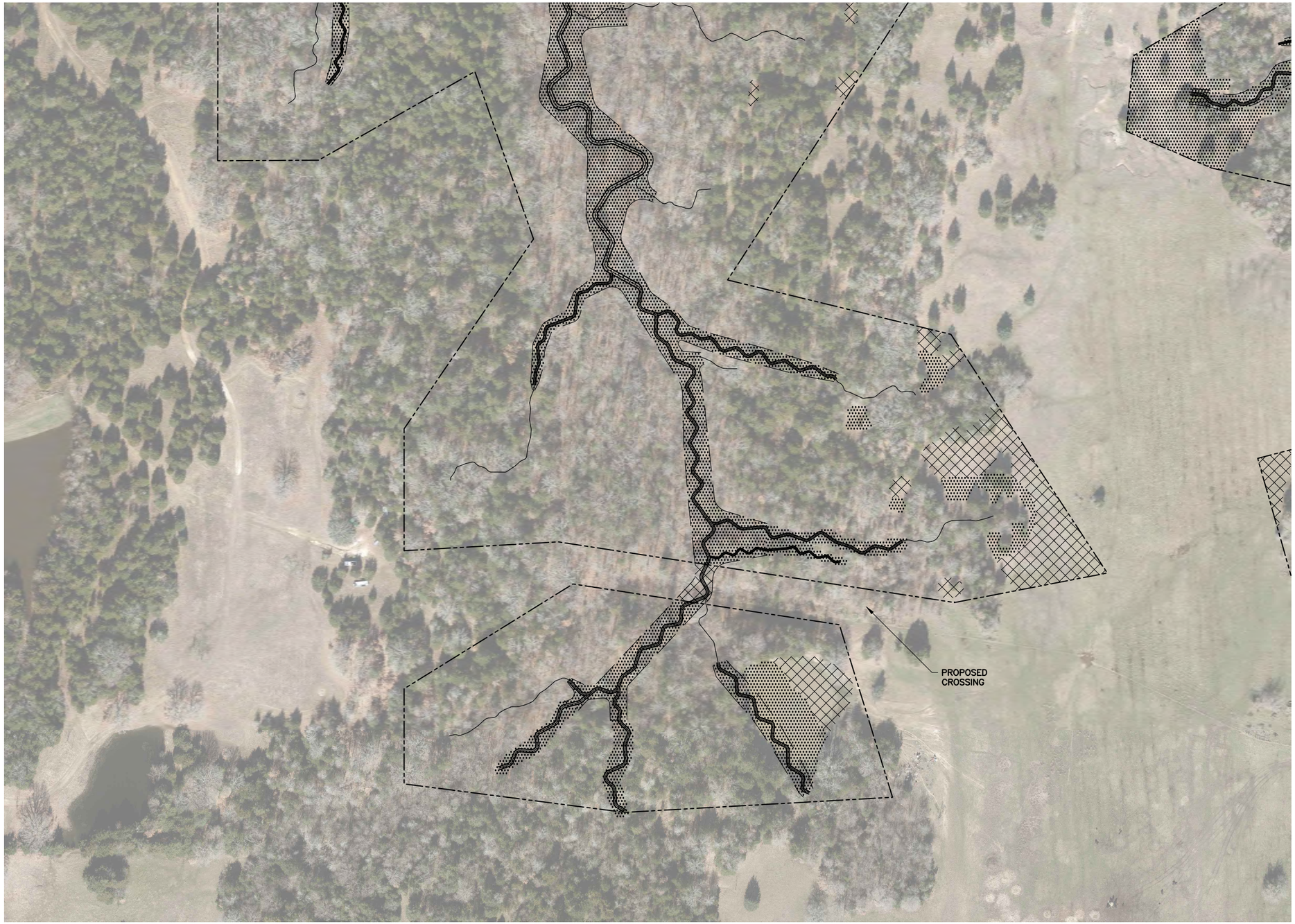
PROJECT ENGINEER

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TIMOTHY J. NOACK
TEXAS P.E. NO. 54732
DATE: 7/10/2019

VOLUME NO. VOL. 1 | SHEET NO. 6.2

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.4



SEE SHEET NO. 6.3

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

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TEXAS P.E. NO. 54732
DATE: 7/10/2019

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SEE SHEET NO. 6.5

SEE SHEET NO. 6.2



VOLUME NO. VOL. 1

SHEET NO. 6.3

ZONE A

PLANTING PLAN

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
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VOLUME NO. VOL. 1 | SHEET NO. 6.4

ZONE A

PLANTING PLAN

SEE SHEET NO. 6.9



SEE SHEET NO. 6.5

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

SEE SHEET NO. 6.2

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900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

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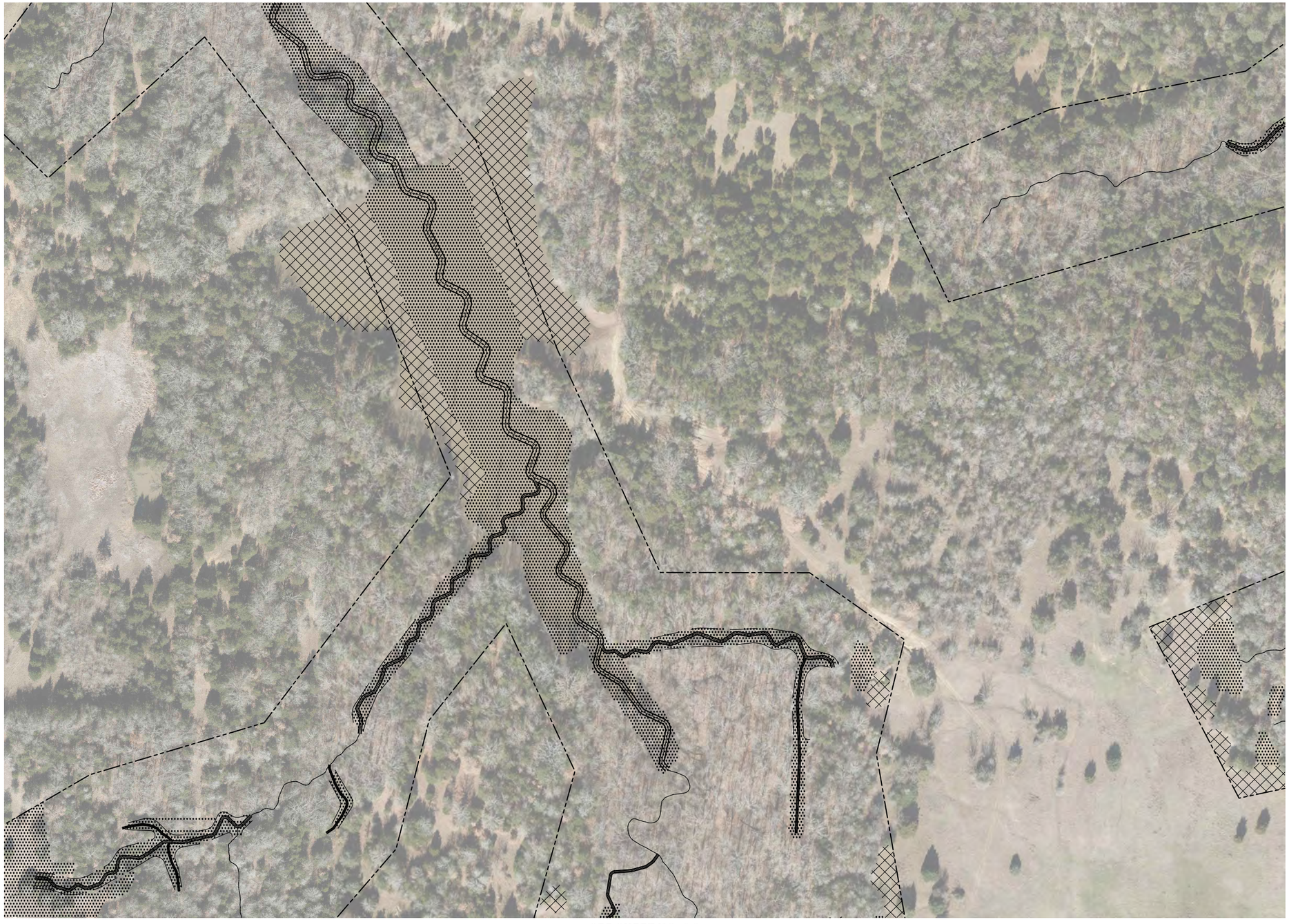
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VOLUME NO. VOL. 1

SHEET NO. 6.5

ZONE A
PLANTING PLAN



SEE SHEET NO. 6.4

SEE SHEET NO. 6.6

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.3

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER & ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
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ZONE A
PLANTING PLAN

SEE SHEET NO. 6.11



SEE SHEET NO. 6.5

SEE SHEET NO. 6.7

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

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REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
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TEXAS P.E. NO. 54732
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VOLUME NO. VOL. 1 | SHEET NO. 6.7

ZONE A

PLANTING PLAN

SEE SHEET NO. 6.12

SEE SHEET NO. 6.6

SEE SHEET NO. 6.8



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

REVISIONS

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PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER & ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

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ZONE A

PLANTING PLAN

SEE SHEET NO. 6.13

SEE SHEET NO. 6.7



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER & ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

EPR ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

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VOLUME NO. VOL. 1 | SHEET NO. 6.9

ZONE A

PLANTING PLAN

SEE SHEET NO. 6.14



SEE SHEET NO. 6.10

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

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REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

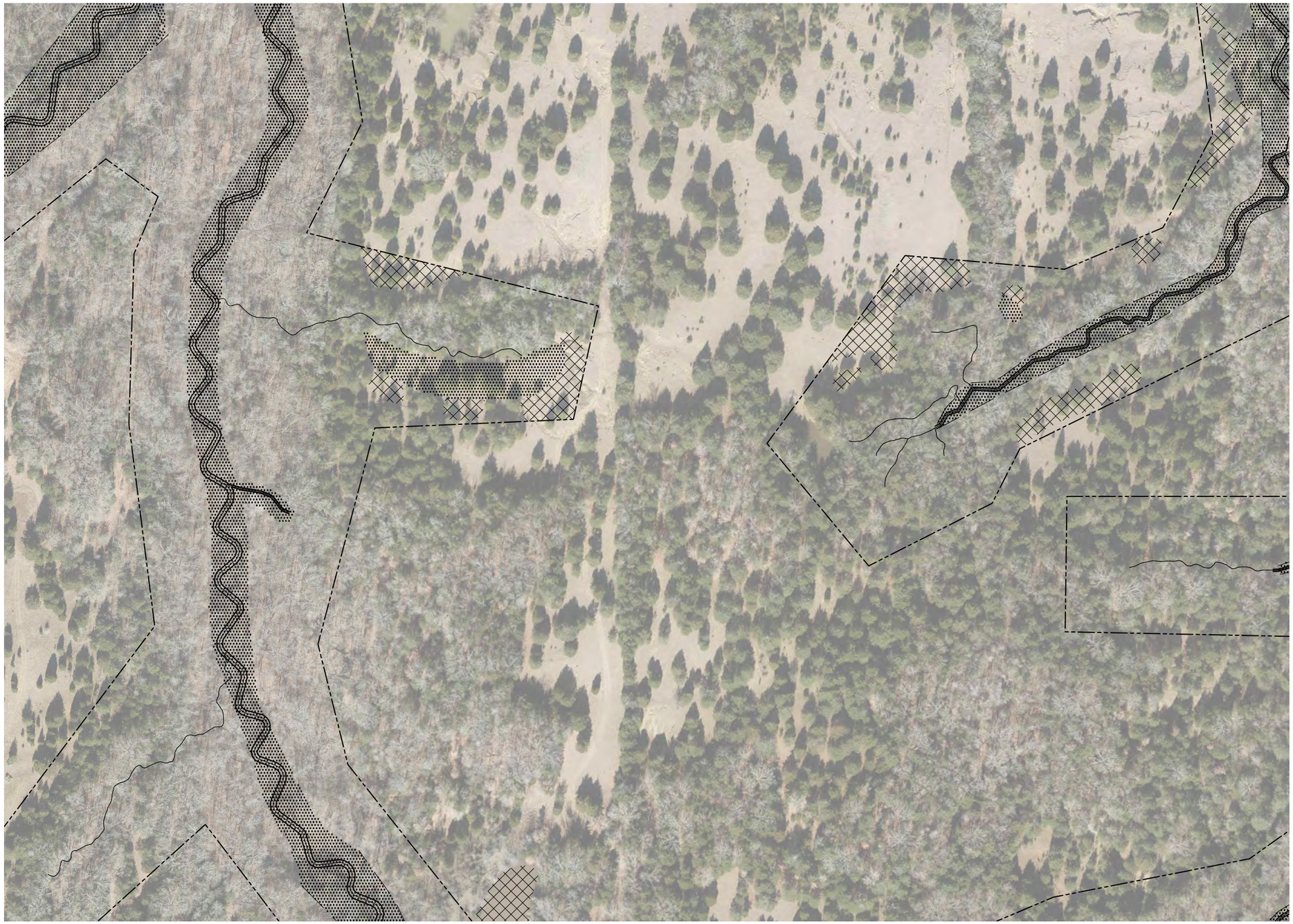
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TIMOTHY J. NOACK
TEXAS P.E. NO. 54732
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VOLUME NO. VOL. 1 | SHEET NO. 6.10

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.15



SEE SHEET NO. 6.9

SEE SHEET NO. 6.11

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.5

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

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ZONE A

PLANTING PLAN

SEE SHEET NO. 6.16

SEE SHEET NO. 6.10



SEE SHEET NO. 6.12

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

SEE SHEET NO. 6.6

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
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WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

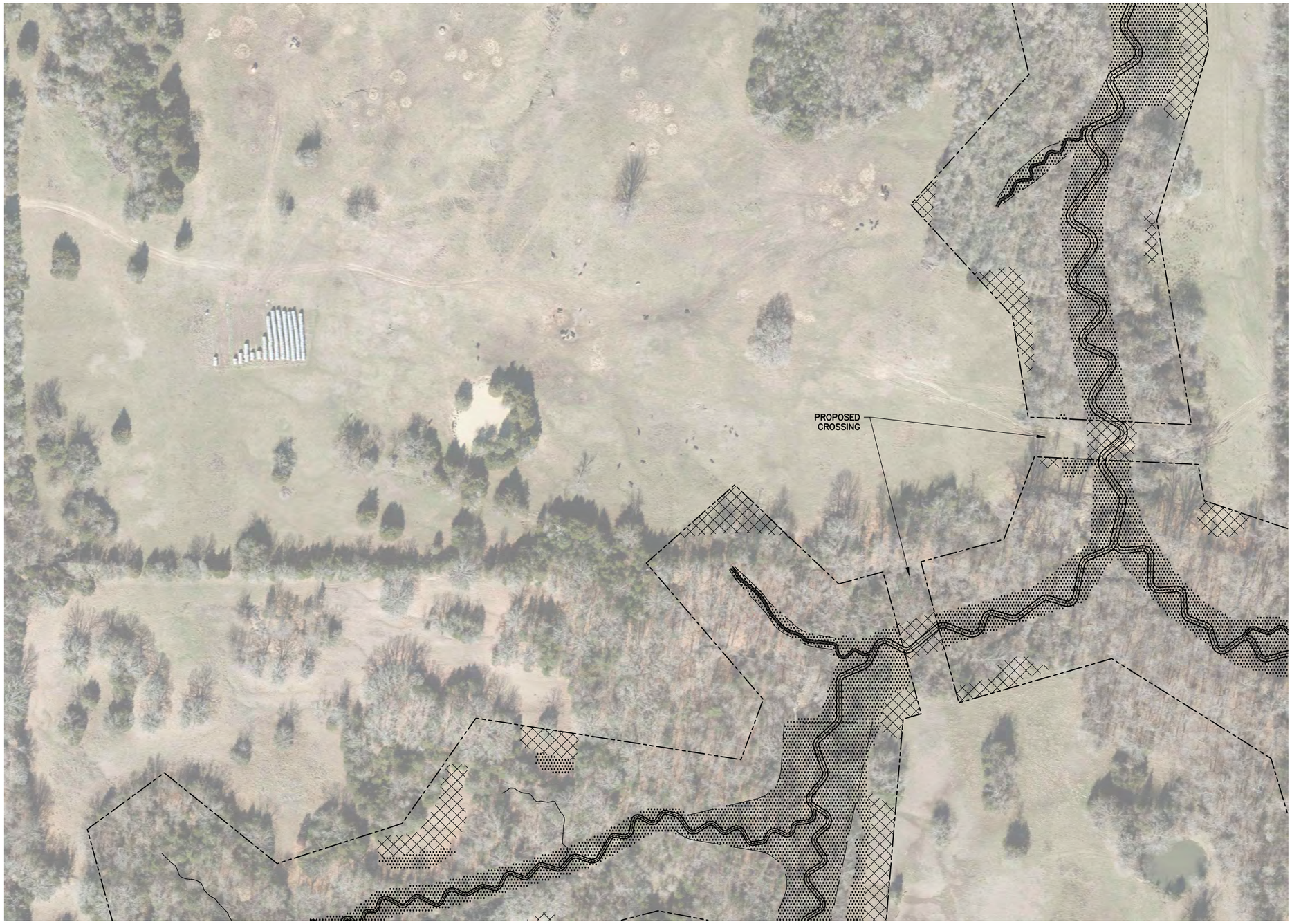
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SEE SHEET NO. 6.11



SEE SHEET NO. 6.13

SEE SHEET NO. 6.7

VOLUME NO. VOL. 1

SHEET NO. 6.12

ZONE A

PLANTING PLAN

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

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NO.	DESCRIPTION	ENGR.	APPROV.	DATE

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UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER & ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
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ZONE A

PLANTING PLAN



SEE SHEET NO. 6.12

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

SEE SHEET NO. 6.8

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
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ZONE A
PLANTING PLAN



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

SEE SHEET NO. 6.15

SEE SHEET NO. 6.9

N

80 40 0 80 160
SCALE (FT)

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UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
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LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

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TEXAS P.E. NO. 54732
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ZONE A
PLANTING PLAN

SEE SHEET NO. 6.19



SEE SHEET NO. 6.14

SEE SHEET NO. 6.16

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.10

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

PROJECT ENGINEER

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TIMOTHY J. NOACK
TEXAS P.E. NO. 54732
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SEE SHEET NO. 6.20

VOLUME NO. VOL. 1

SHEET NO. 6.16

ZONE A

PLANTING PLAN



SEE SHEET NO. 6.15

SEE SHEET NO. 6.17

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

SEE SHEET NO. 6.11

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER & ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com

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TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net

ECOSYSTEM PLANNING & RESTORATION
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SEE SHEET NO. 6.21

SEE SHEET NO. 6.16

VOLUME NO. VOL. 1

SHEET NO. 6.17

ZONE A

PLANTING PLAN



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

SEE SHEET NO. 6.12

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
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WEB - www.apaienv.com

ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net

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VOLUME NO. VOL. 1 | SHEET NO. 6.18

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.22



SEE SHEET NO. 6.19

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.14

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER & ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
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ZONE A
PLANTING PLAN

SEE SHEET NO. 6.23



SEE SHEET NO. 6.18

SEE SHEET NO. 6.20

LEGEND
- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.15

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
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VOLUME NO. VOL. 1 | SHEET NO. 6.20

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.24



SEE SHEET NO. 6.19

SEE SHEET NO. 6.21

LEGEND
- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.16

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
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ZONE A

PLANTING PLAN

SEE SHEET NO. 6.25

SEE SHEET NO. 6.20



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.17

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

PROJECT ENGINEER

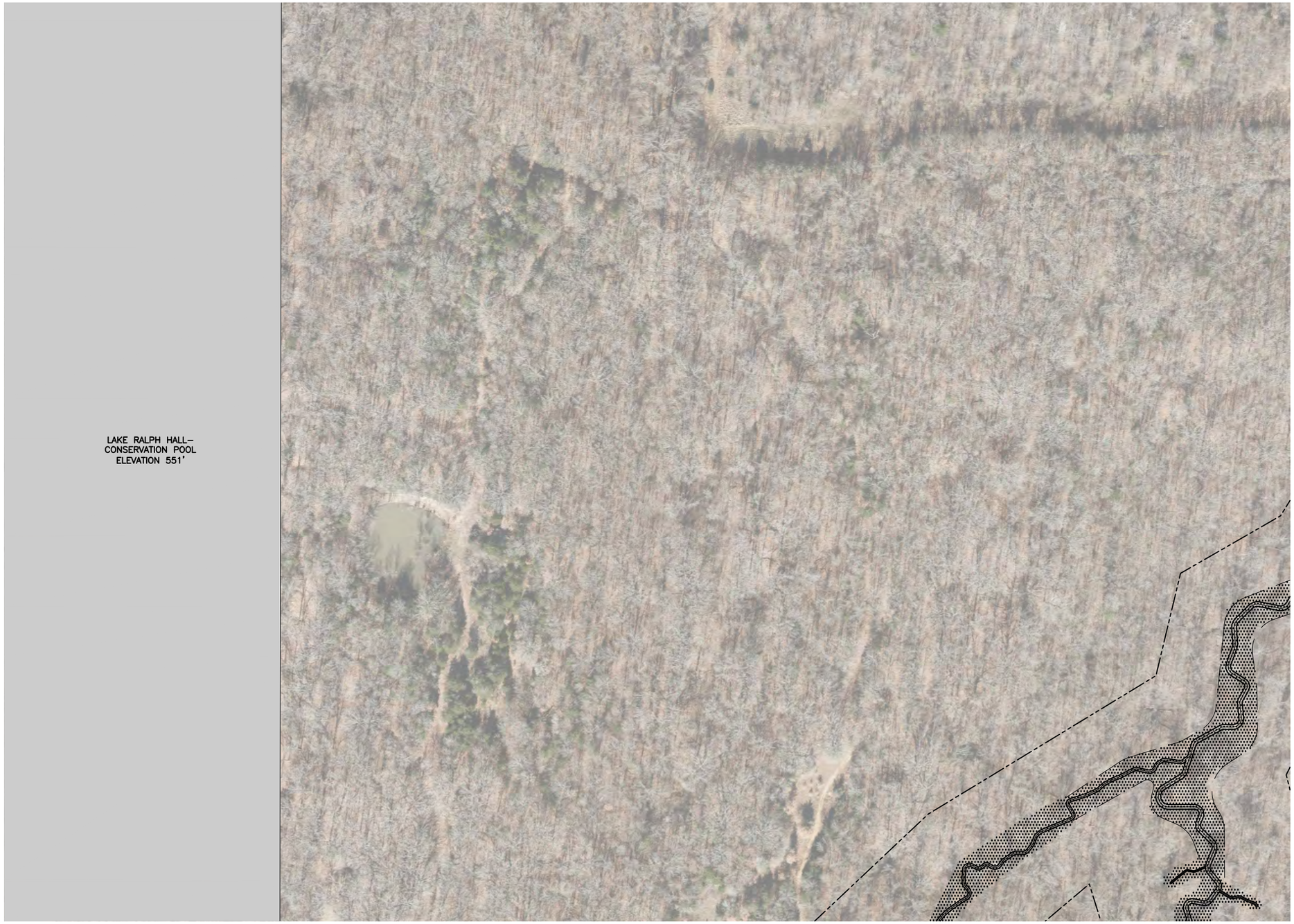
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VOLUME NO. VOL. 1 | SHEET NO. 6.22

ZONE A

PLANTING PLAN



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.18

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REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

PROJECT ENGINEER

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TIMOTHY J. NOACK
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VOLUME NO. VOL. 1 | SHEET NO. 6.23

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.26

SEE SHEET NO. 6.22



SEE SHEET NO. 6.24

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

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REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
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TIMOTHY J. NOACK
TEXAS P.E. NO. 54732
DATE: 7/10/2019

VOLUME NO. VOL. 1 | SHEET NO. 6.24

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.27

SEE SHEET NO. 6.23

SEE SHEET NO. 6.25



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.20

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
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ZONE A
PLANTING PLAN



SEE SHEET NO. 6.24

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

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REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
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TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
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TIMOTHY J. NOACK
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SEE SHEET NO. 6.23

VOLUME NO. VOL. 1

SHEET NO. 6.26

ZONE A

PLANTING PLAN

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

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REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
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FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
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FORT WORTH, TEXAS 76107
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117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
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VOLUME NO. VOL. 1 | SHEET NO. 6.27

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.32



SEE SHEET NO. 6.26

SEE SHEET NO. 6.28

SEE SHEET NO. 6.24

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

REVISIONS

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PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

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ENVIRONMENTAL ENGINEERS AND SCIENTISTS
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TEXAS REGISTERED ENGINEERING
FIRM F-13

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117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
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VOLUME NO. VOL. 1 | SHEET NO. 6.28

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.33



SEE SHEET NO. 6.27

SEE SHEET NO. 6.29

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.25

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REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

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TIMOTHY J. NOACK
TEXAS P.E. NO. 54732
DATE: 7/10/2019

VOLUME NO. VOL. 1 | SHEET NO. 6.29

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.34

SEE SHEET NO. 6.28



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

80 40 0 80 160
SCALE (FT)

REVISIONS				
NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

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ZONE A
PLANTING PLAN

SEE SHEET NO. 6.35

LAKE RALPH HALL–
CONSERVATION POOL
ELEVATION 551'



SEE SHEET NO. 6.31

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

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REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
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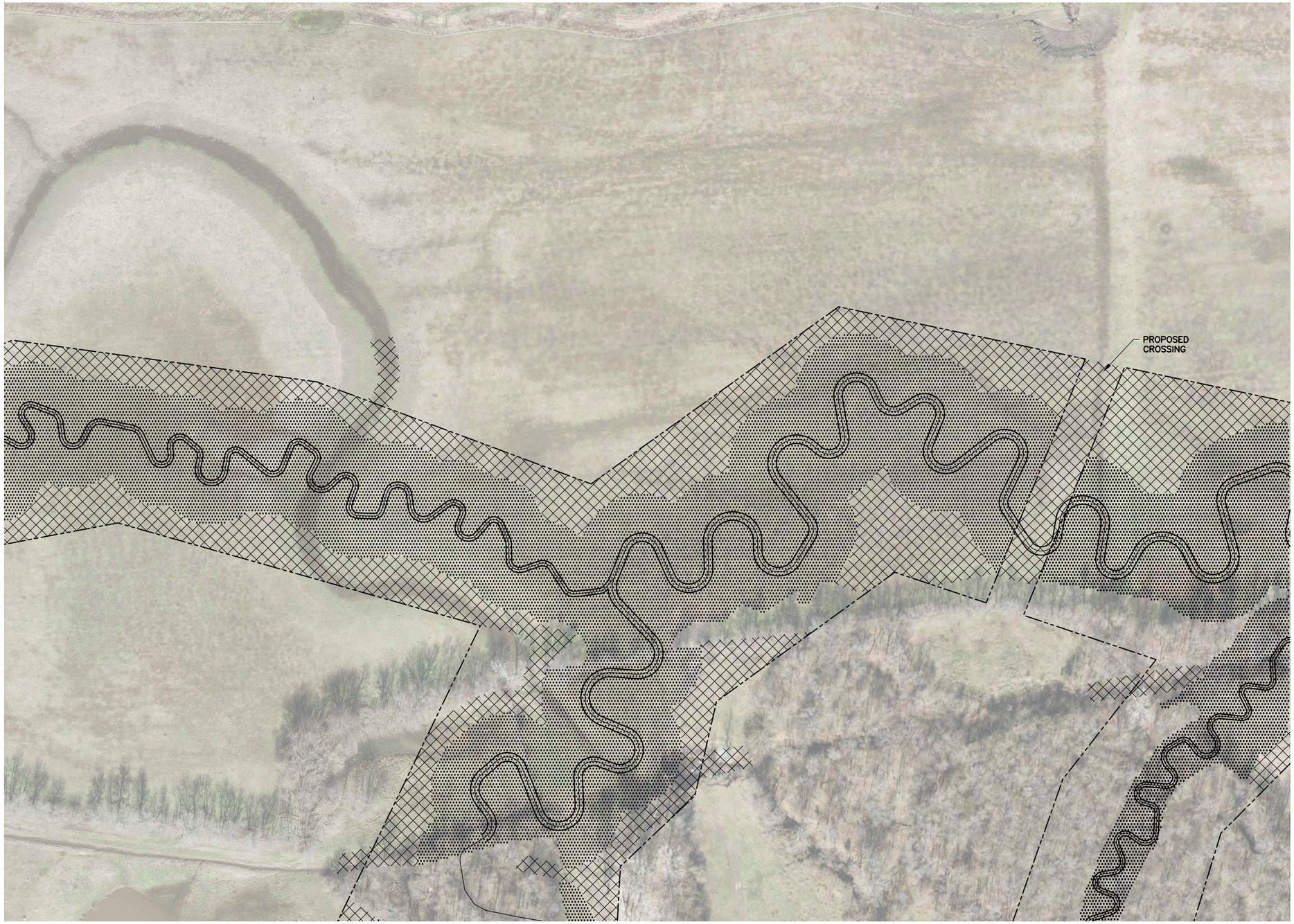
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TEXAS P.E. NO. 54732
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VOLUME NO. VOL. 1 | SHEET NO. 6.31

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.36



SEE SHEET NO. 6.30

SEE SHEET NO. 6.32

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

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REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

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VOLUME NO. VOL. 1 | SHEET NO. 6.32

ZONE A

PLANTING PLAN

SEE SHEET NO. 6.37



SEE SHEET NO. 6.31

SEE SHEET NO. 6.33

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

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UPPER TRINITY REGIONAL WATER DISTRICT

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LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

EPR ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

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TEXAS P.E. NO. 54732
DATE: 7/10/2019

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VOLUME NO. VOL. 1 | SHEET NO. 6.33

ZONE A

PLANTING PLAN



SEE SHEET NO. 6.32

SEE SHEET NO. 6.34

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

SEE SHEET NO. 6.28

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING FIRM F-14997

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SEE SHEET NO. 6.39

SEE SHEET NO. 6.33



SEE SHEET NO. 6.29

VOLUME NO. VOL. 1

SHEET NO. 6.34

ZONE A

PLANTING PLAN

LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160

SCALE (FT)

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UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

EPR ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
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PROJECT ENGINEER

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TIMOTHY J. NOACK
TEXAS P.E. NO. 54732
DATE: 7/10/2019

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.40



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

SEE SHEET NO. 6.36

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.30

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
TEXAS REGISTERED ENGINEERING
FIRM F-14997

PROJECT ENGINEER

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VOLUME NO. VOL. 1 | SHEET NO. 6.36

ZONE A
PLANTING PLAN

SEE SHEET NO. 6.41

SEE SHEET NO. 6.35

SEE SHEET NO. 6.37



LEGEND

- ENHANCEMENT STREAM
- RESTORATION STREAM CHANNEL (WIDTH VARIES)
- CONSERVATION EASEMENT BOUNDARY
- FLOODPLAIN BENCH
- PLANTING ZONE 1
- PLANTING ZONE 2
- PLANTING ZONE 3

N

80 40 0 80 160
SCALE (FT)

SEE SHEET NO. 6.31

REVISIONS

NO.	DESCRIPTION	ENGR.	APPROV.	DATE

PREPARED FOR:

UPPER TRINITY REGIONAL WATER DISTRICT

900 N KEALY ST
LEWISVILLE, TX 75057

LAKE RALPH HALL MITIGATION
MITIGATION ZONE A
FANNIN COUNTY, TEXAS

ALAN PLUMMER ASSOCIATES, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
1320 S. UNIVERSITY DRIVE, STE. 300
FORT WORTH, TEXAS 76107
PHONE - (817) 806-1700
FAX - (817) 870-2536
WEB - www.apaienv.com
ALAN PLUMMER ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING
FIRM F-13

ECOSYSTEM PLANNING & RESTORATION
117575 NORTH ELDRIDGE PARKWAY
BUILDING C
TOMBALL, TEXAS 77377
PHONE - (832) 399-3400
WEB - www.eprusa.net
ECOSYSTEM PLANNING & RESTORATION
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