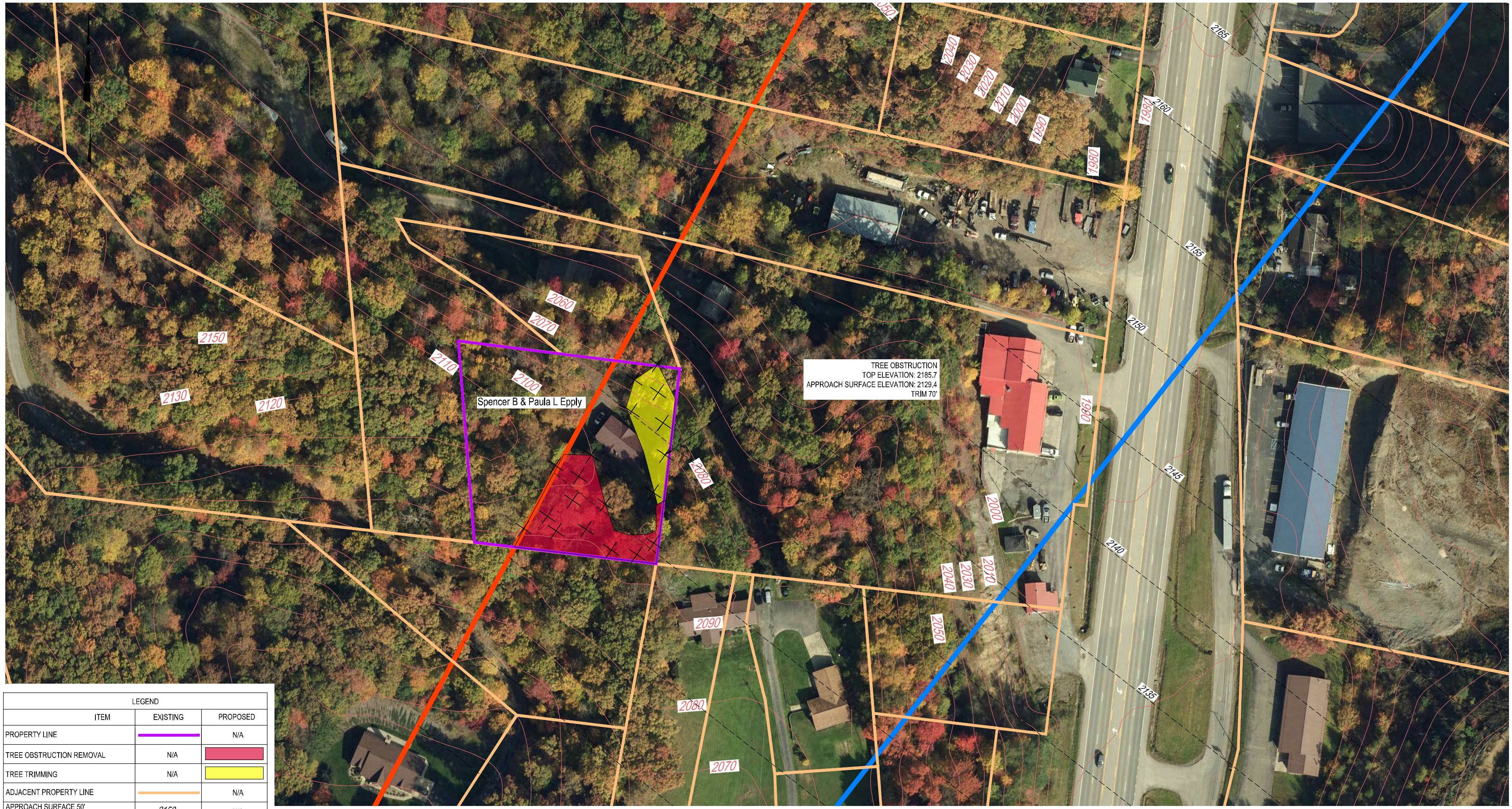


LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	_ _ 2150 _ _ _	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Epply Spencer B & Paula L
Parcel ID 42-10-0022-0004-0001
Parcel # 0004
Deed Book/page 399 / 171
Acreage 1.00

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

TRANSYSTEMS
615 West Highland Ave.
Ebensburg, PA 15931
Phone: 814.472.7700
Email: madefibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DEFIBAUGH REGISTERED 20752 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

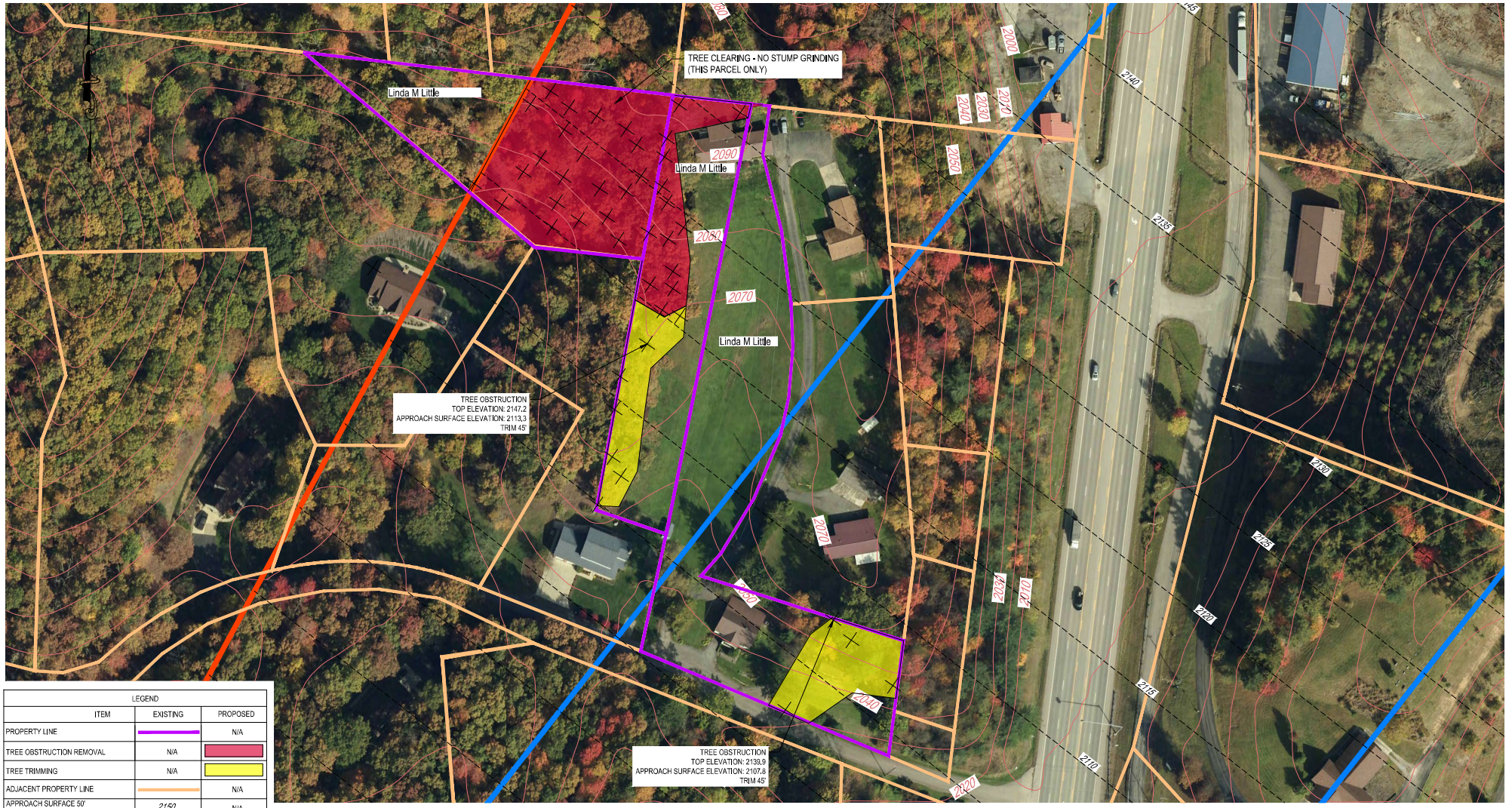
EPPLY TAX PARCEL - 22-4-1 (ADD ALTERNATE BID NO. 2)

PROJECT NO P707230229
DATE DECEMBER 2023

AP-22

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-EPPLY-22-4-1

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Little Linda M	Little Linda M	Little Linda M
Parcel ID 42-10-0022-0013-0000	Parcel ID 42-10-0022-0014-0000	Parcel ID 42-10-0036-0003-0000
Parcel # 0013	Parcel # 0014	Parcel # 0003
Deed Book/page 514 / 001	Deed Book/page 554 / 475	Deed Book/page 408 / 394
Acreage 0.74	Acreage 1.55	Acreage 1.02

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

TRANSYSTEMS
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Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DEFIBAUGH
40752
REGISTERED
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23
DRAWN	RAK	12/23
CHECKED	CRM	12/23
APPROVED	MAD	12/23

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)
ELKINS WEST VIRGINIA

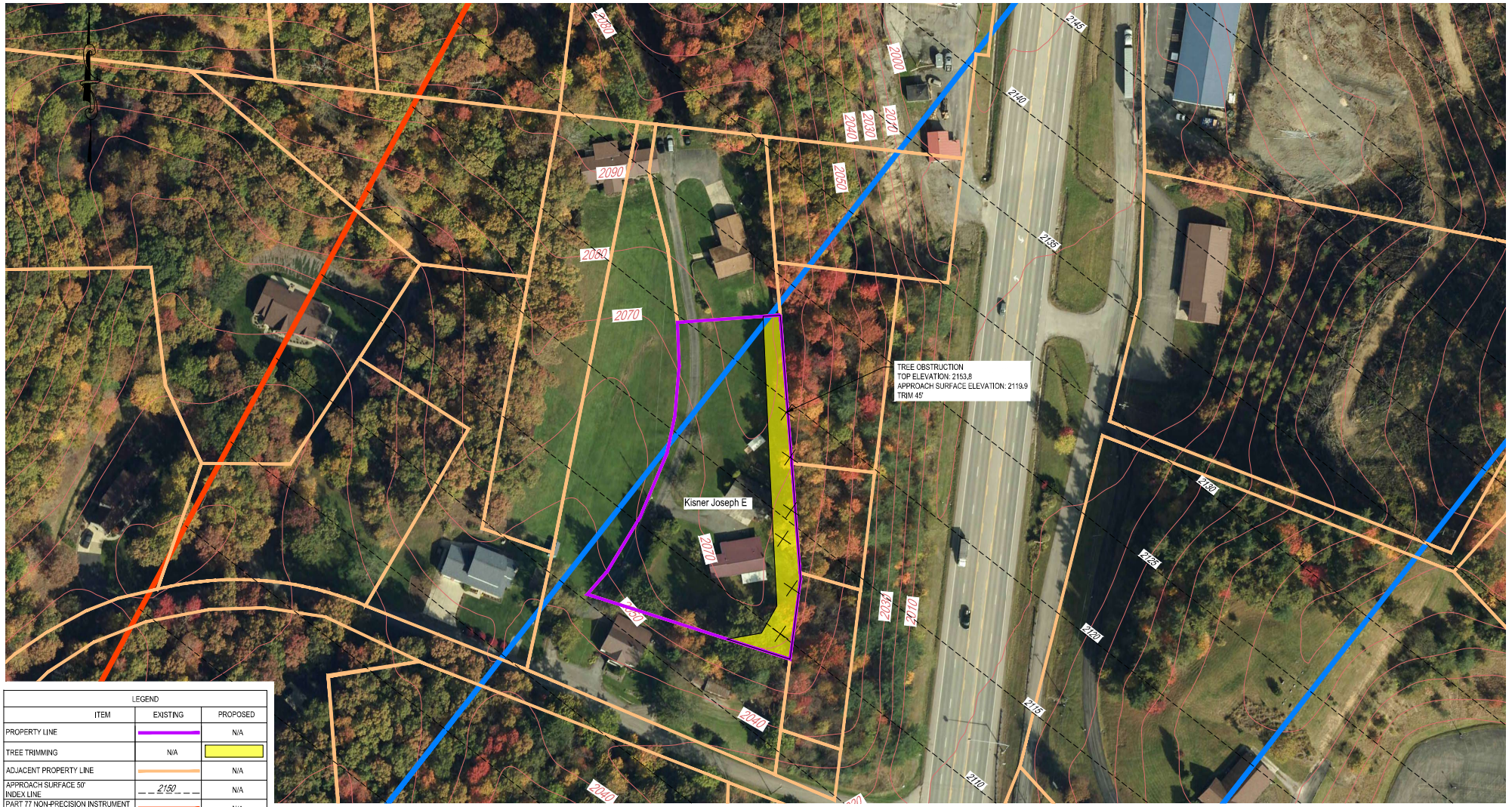
TREE OBSTRUCTION REMOVAL, PHASE 5
LITTLE TAX PARCEL - 22-13, 22-14 AND 36-3
(ADD ALTERNATE BID NO., 2)

AP-23

PROJECT NO P707230229
DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-LITTLE-22-14

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

Kisner Joseph E
Parcel ID 42-10-0022-0014-0002
Parcel # 0014
Deed Book/page 538 / 147
Acreage 1.80

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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Phone: 814.472.7700
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MELISSA A. DEFIBAUGH
40752
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23
DRAWN	RAK	12/23
CHECKED	CRM	12/23
APPROVED	MAD	12/23

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

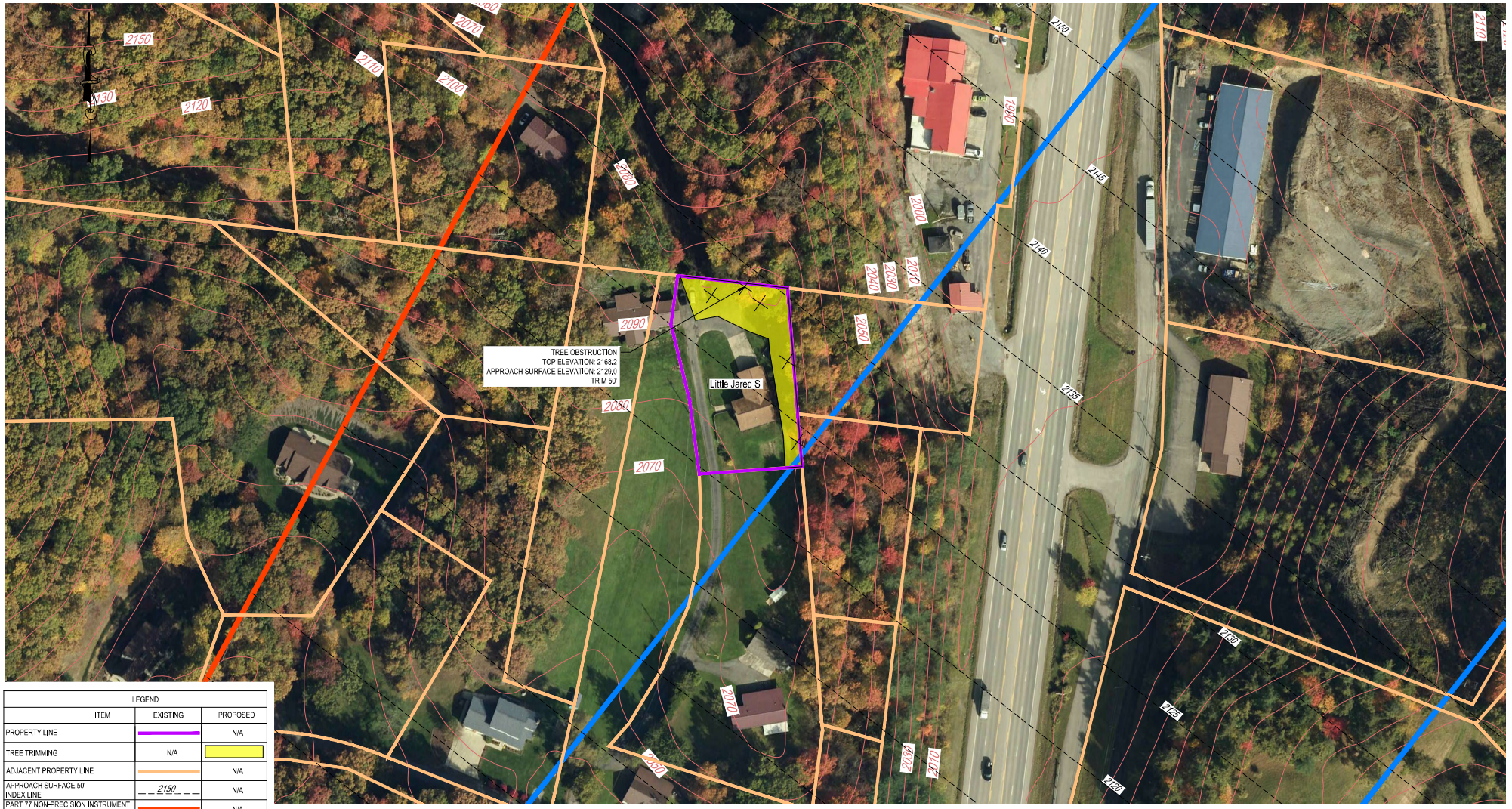
KISNER TAX PARCEL - 22-14.2 (ADD ALTERNATE BID NO. 2)

AP-24

PROJECT NO P707230229
DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-KISNER-22-14.2

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

Little Jared S
Parcel ID 42-10-0022-0014-0001
Parcel # 0014
Deed Book/page 573 / 745
Acreage 0.5

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DEFIBAUGH
40752
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

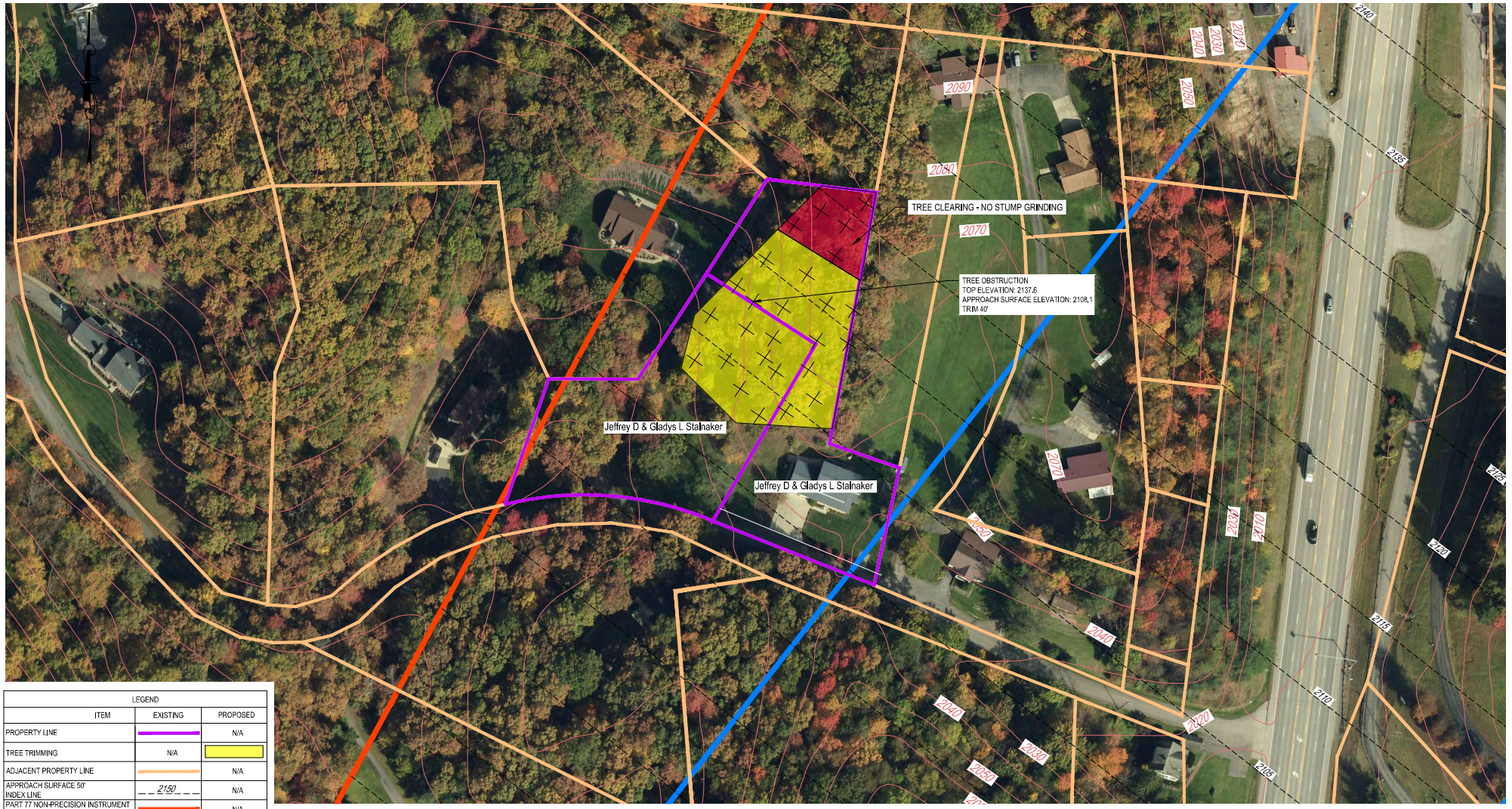
LITTLE TAX PARCEL - 22-14.1 (ADD ALTERNATE BID NO. 2)

AP-25

PROJECT NO P707230229 DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-LITTLE-22-14.1

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

Stalnaker Jeffrey D & Gladys L Parcel ID 42-10-0036-0002-0000 Parcel # 0002 Deed Book/page 525 / 592 Acreage 1.04	Stalnaker Jeffrey & Gladys Parcel ID 42-10-0036-0002-0001 Parcel # 0002 Deed Book/page 516 / 179 Acreage 1.03

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Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DEFIBAUGH
40752
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

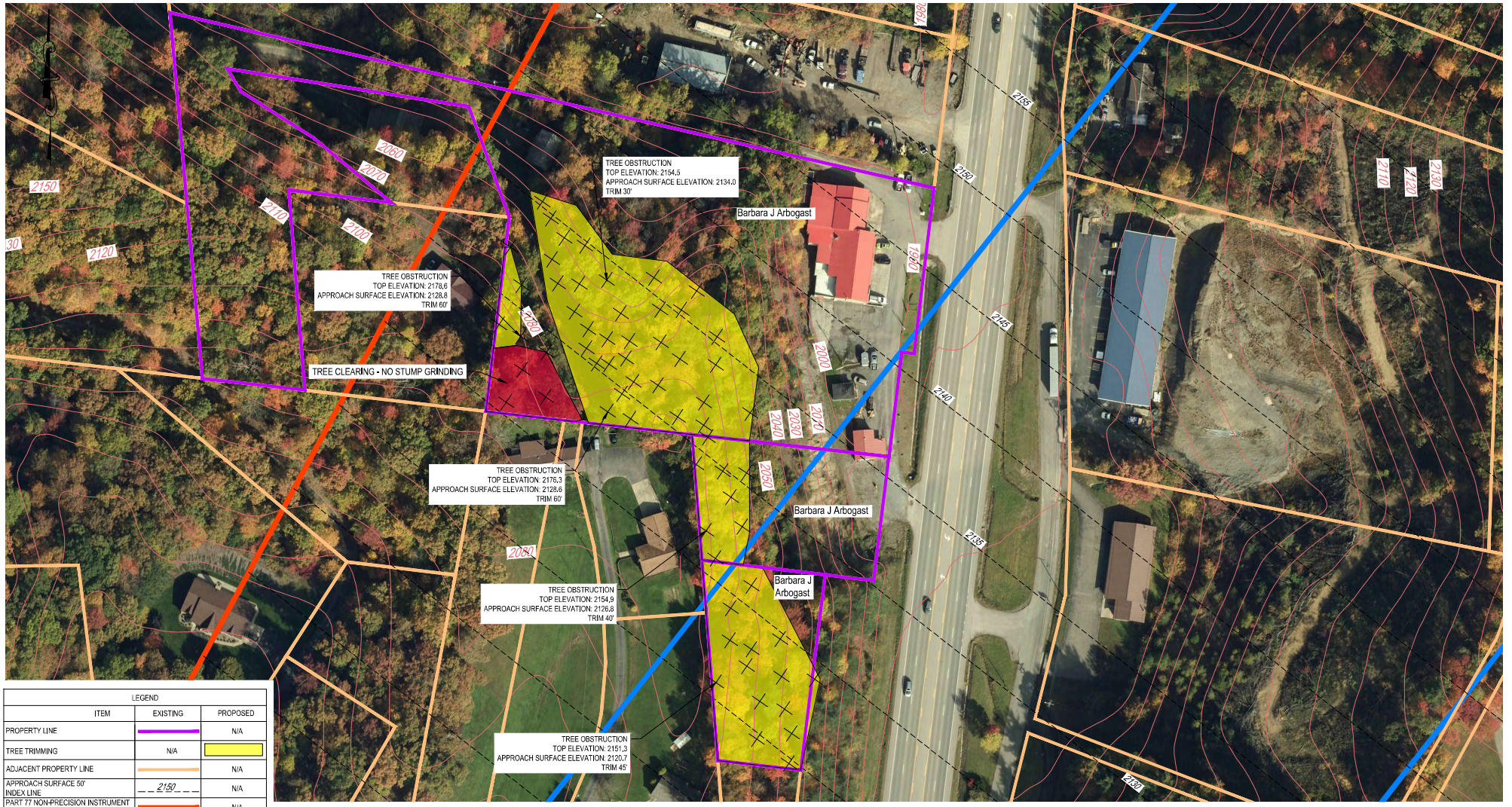
STALNAKER TAX PARCEL - 36-2 AND 36-2.1 (ADD ALTERNATE BID NO. 2)

AP-26

PROJECT NO P707230229 DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-STALNAKER-36-2

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Arbogast William J & Barbara J	Arbogast William J & Barbara J	Arbogast Barbara J
Parcel ID 42-10-0022-0004-0000	Parcel ID 42-10-0022-0015-0000	Parcel ID 42-10-0022-0016-0000
Parcel # 0004	Parcel # 0015	Parcel # 0016
Deed Book/page 347 / 162	Deed Book/page 347 / 162	Deed Book/page 475 / 464
Acreage 5.32	Acreage 0.74	Acreage 0.25

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DEFIBAUGH
40752
REGISTERED
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

ARBOGAST TAX PARCEL - 22-4, 22-15 AND 22-16 (ADD ALTERNATE BID NO. 2)

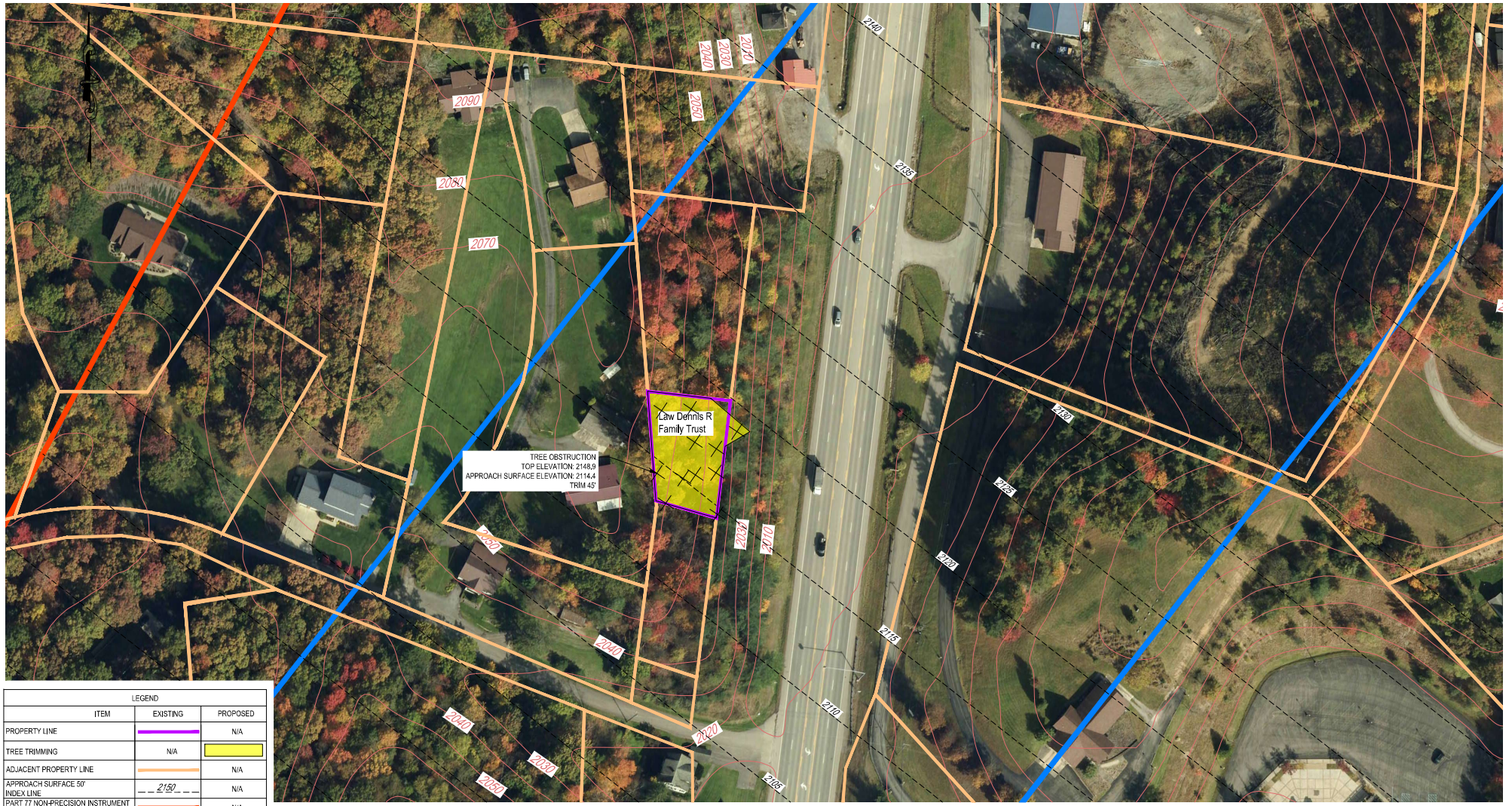
AP-27

PROJECT NO P707230229

DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-ARBOGAST-22-16

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Law Dennis R Family Trust
Parcel ID 42-10-0022-0017-0000
Parcel # 0017
Deed Book/page 493 / 443
Acreage 0.23

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

TRANSYSTEMS
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Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DERBAUGH
REGISTERED
40752
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

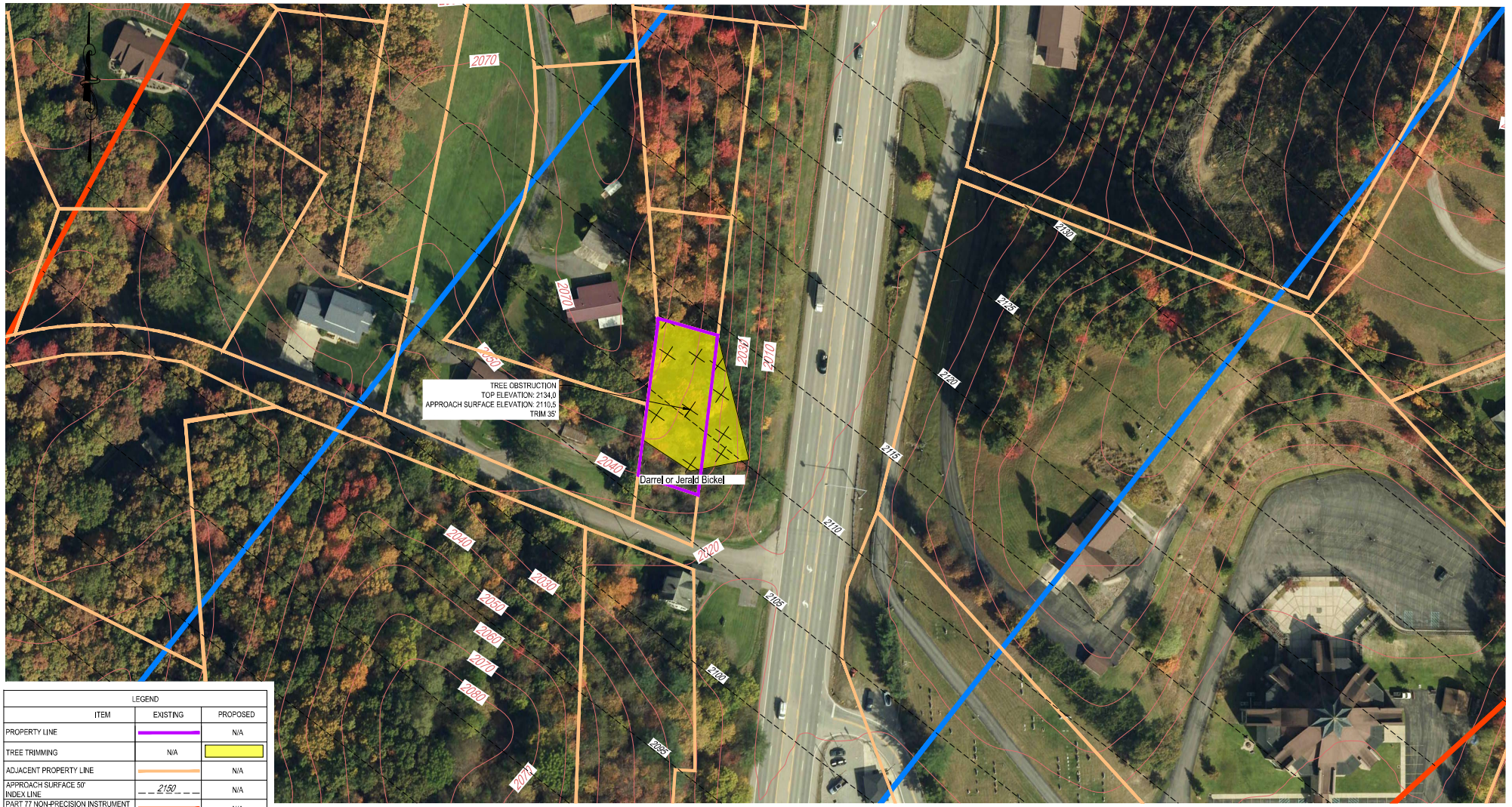
LAW FAMILY TRUST TAX PARCEL -22-17 (ADD ALTERNATE BID NO. 2)

AP-28

PROJECT NO P707230229 DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-LAW FAMILY TRUST-22-17

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

Bickel Darrel or Jerald
Parcel ID 42-10-0022-0018-0000
Parcel # 0018
Deed Book/page WB66/160
Acreage 0.21

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DERBAUGH
40752
REGISTERED
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23
DRAWN	RAK	12/23
CHECKED	CRM	12/23
APPROVED	MAD	12/23

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

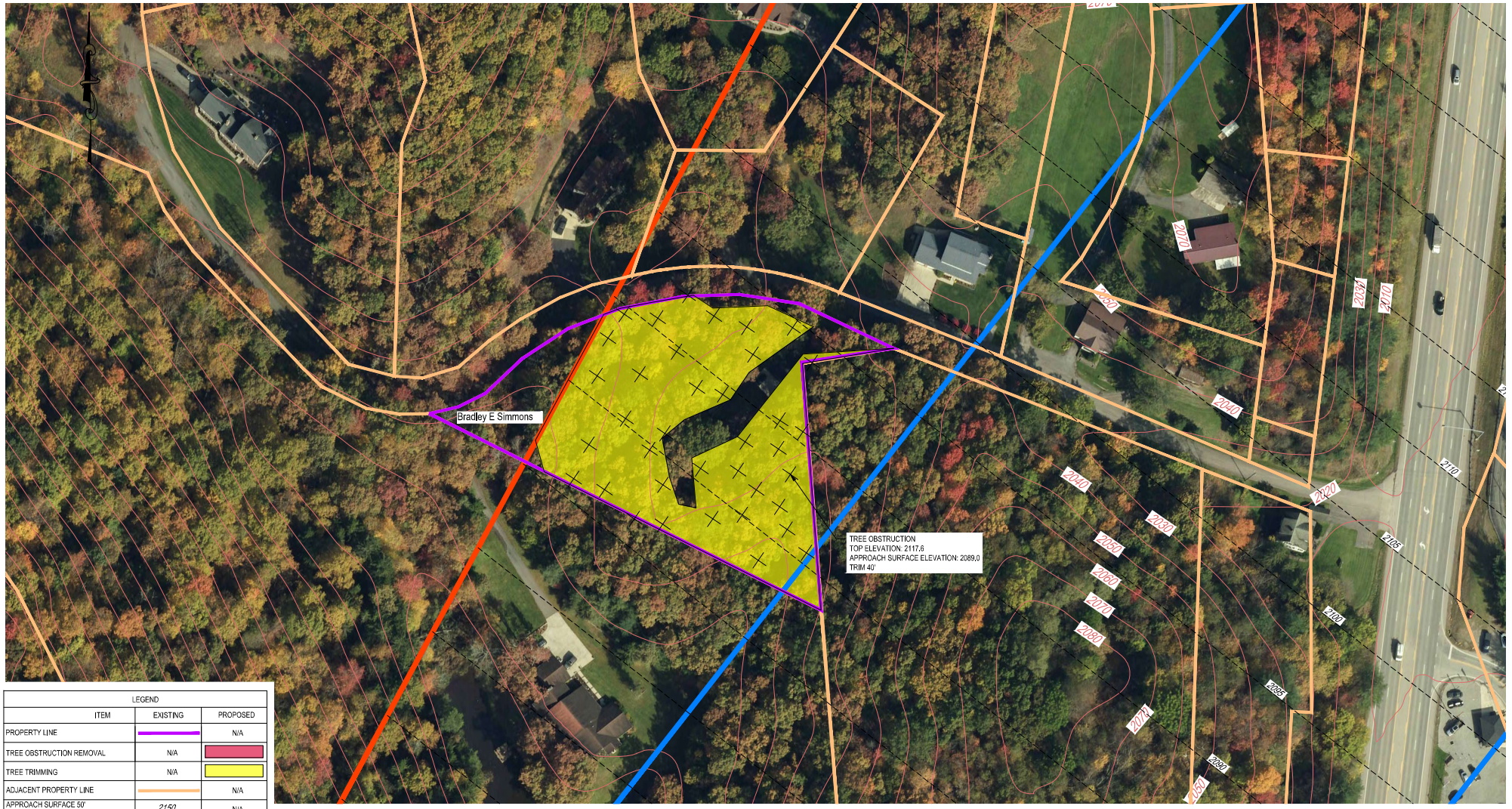
BICKEL TAX PARCEL - 22-18 (ADD ALTERNATE BID NO. 2)

AP-29

PROJECT NO P707230229 DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-BICKEL-22-18

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Simmons Bradley E
Parcel ID 42-10-0036-0001-0000
Parcel # 0001
Deed Book/page 498 / 604
Acreage 1.95

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

TRANSYSTEMS
615 West Highland Ave,
Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DERIBAUGH REGISTERED 40752 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER 12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

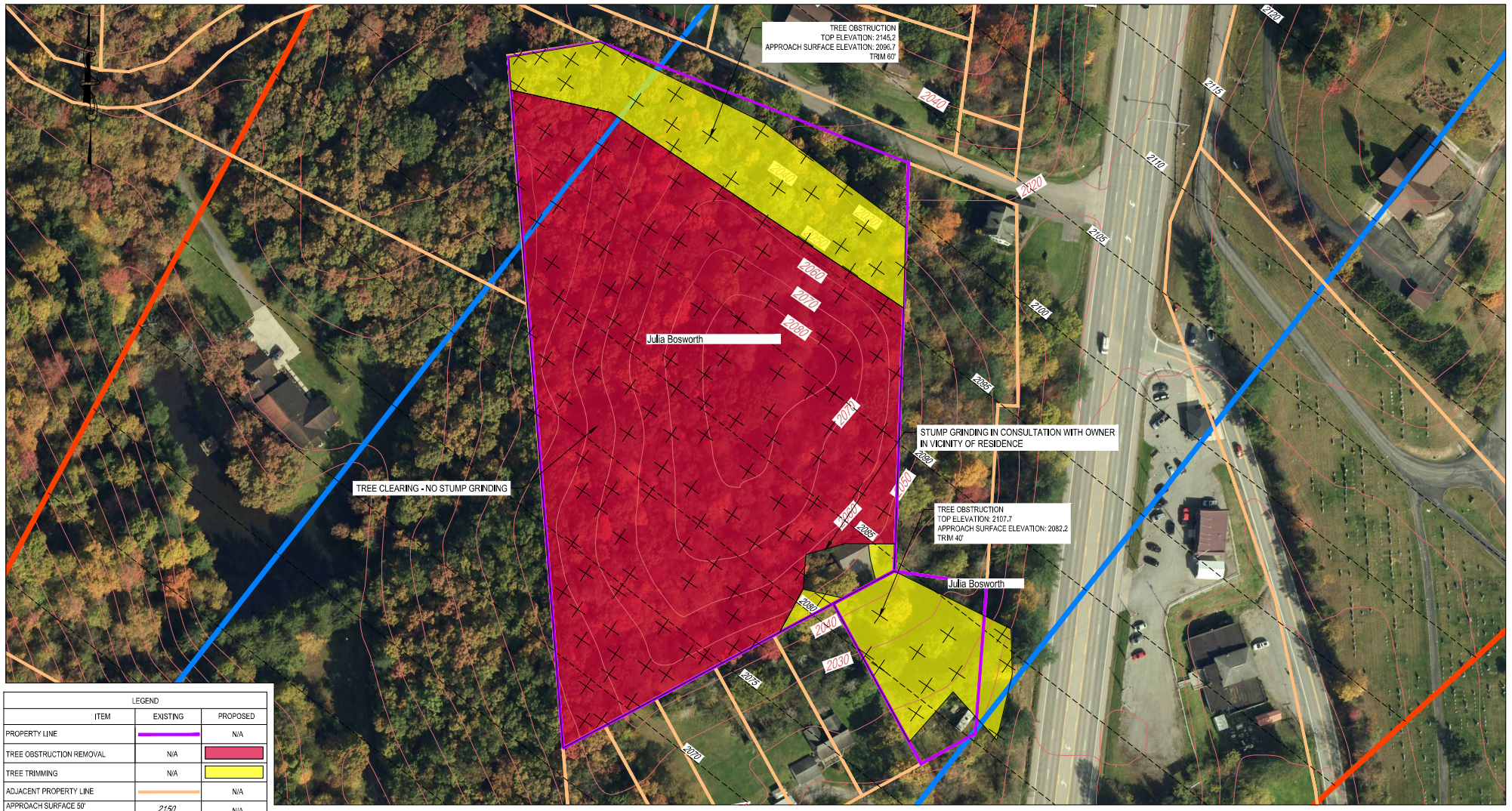
SIMMONS TAX PARCEL - 36-1 (ADD ALTERNATE BID NO. 3)

AP-30

PROJECT NO P707230229 DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-SIMMONS-36-1

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Bosworth Julia Maria	Bosworth Julia Maria
Parcel ID 42-10-0023-0000	Parcel ID 42-10-0023-0039-0000
Parcel # 0034	Parcel # 0039
Deed Book/page 540 / 196	Deed Book/page 540 / 196
Acreage 5.57	Acreage 0.472

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DERIBAUGH 40752 REGISTERED STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER 12/13/2023

DESIGNED	MAD	12/23
DRAWN	RAK	12/23
CHECKED	CRM	12/23
APPROVED	MAD	12/23

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

BOSWORTH TAX PARCEL - 23-34 AND 23-39 (ADD ALTERNATE BID NO. 3)

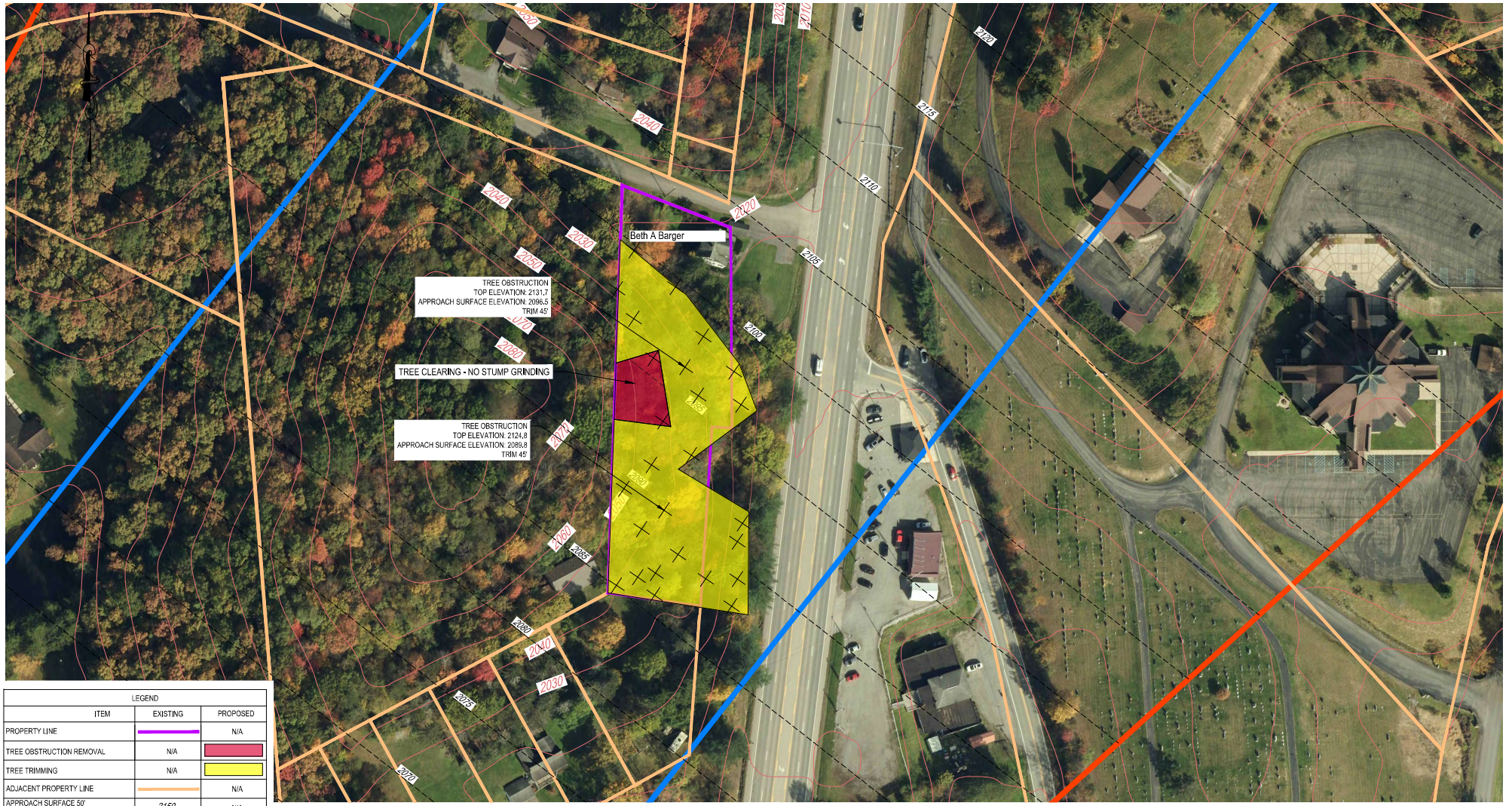
AP-31

PROJECT NO P707230229

DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-BOSWORTH-23-34

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

Barger Beth A
Parcel ID 42-10-0023-0040-0000
Parcel # 0040
Deed Book/page 308 / 90
Acreage 0.90

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DEFIBAUGH
40752
REGISTERED
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23
DRAWN	RAK	12/23
CHECKED	CRM	12/23
APPROVED	MAD	12/23

DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

BARGER TAX PARCEL - 23-40 (ADD ALTERNATE BID NO. 3)

AP-32

PROJECT NO P707230229

DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-BARGER-23-40

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Gum Edward G Jr & Susan Parcel ID 42-10-0023-0035-0000 Parcel # 0035 Deed Book/page 355 / 359 Acreage 0.245	Gum Edward G Jr & Susan Parcel ID 42-10-0023-0036-0000 Parcel # 0036 Deed Book/page 355 / 359 Acreage 0.276	Gum Edward G Jr & Susan Parcel ID 42-10-0023-0037-0000 Parcel # 0037 Deed Book/page 355 / 359 Acreage 0.30	Gum Edward G Jr & Susan Parcel ID 42-10-0023-0038-0000 Parcel # 0038 Deed Book/page 355 / 359 Acreage 0.272

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

TRANSYSTEMS
615 West Highland Ave,
Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelbaugh@transystems.com
Website: www.transystems.com

MELISSA A. DERBAUGH REGISTERED 40752 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER 12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

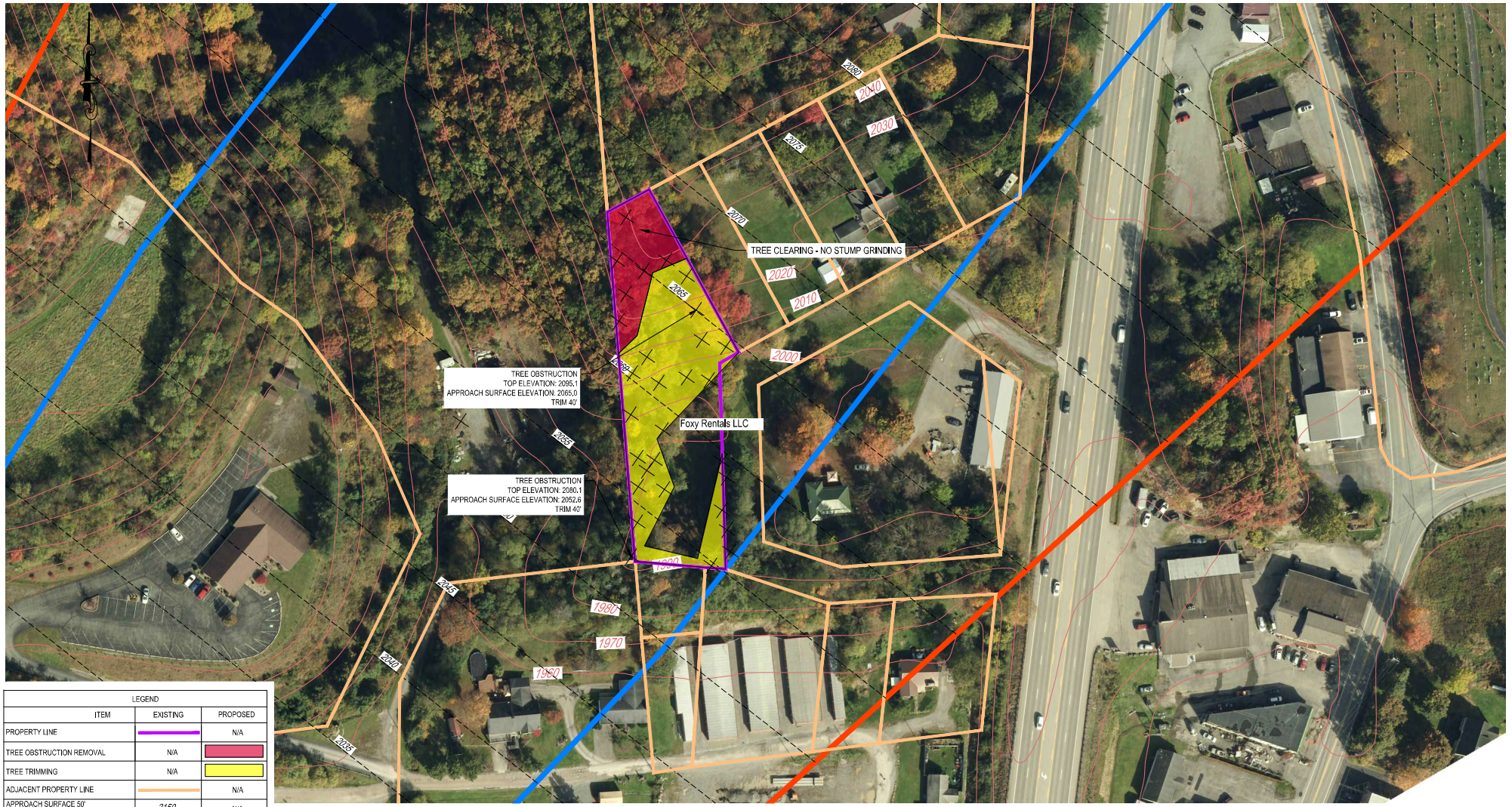
GUM TAX PARCEL - 23-35 23-36, 23-37 AND 23-38
(ADD ALTERNATE BID NO. 3)

AP-33

PROJECT NO P707230229
DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-GUM-23-35

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

0 50' 100'
Scale 1 " = 50'

Foxy Rentals LLC
Parcel ID 42-10-0023-0033-0000
Parcel # 0033
Deed Book/page 627/789
Acreage 0.955

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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615 West Highland Ave,
Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DEFIBAUGH
40752
REGISTERED
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

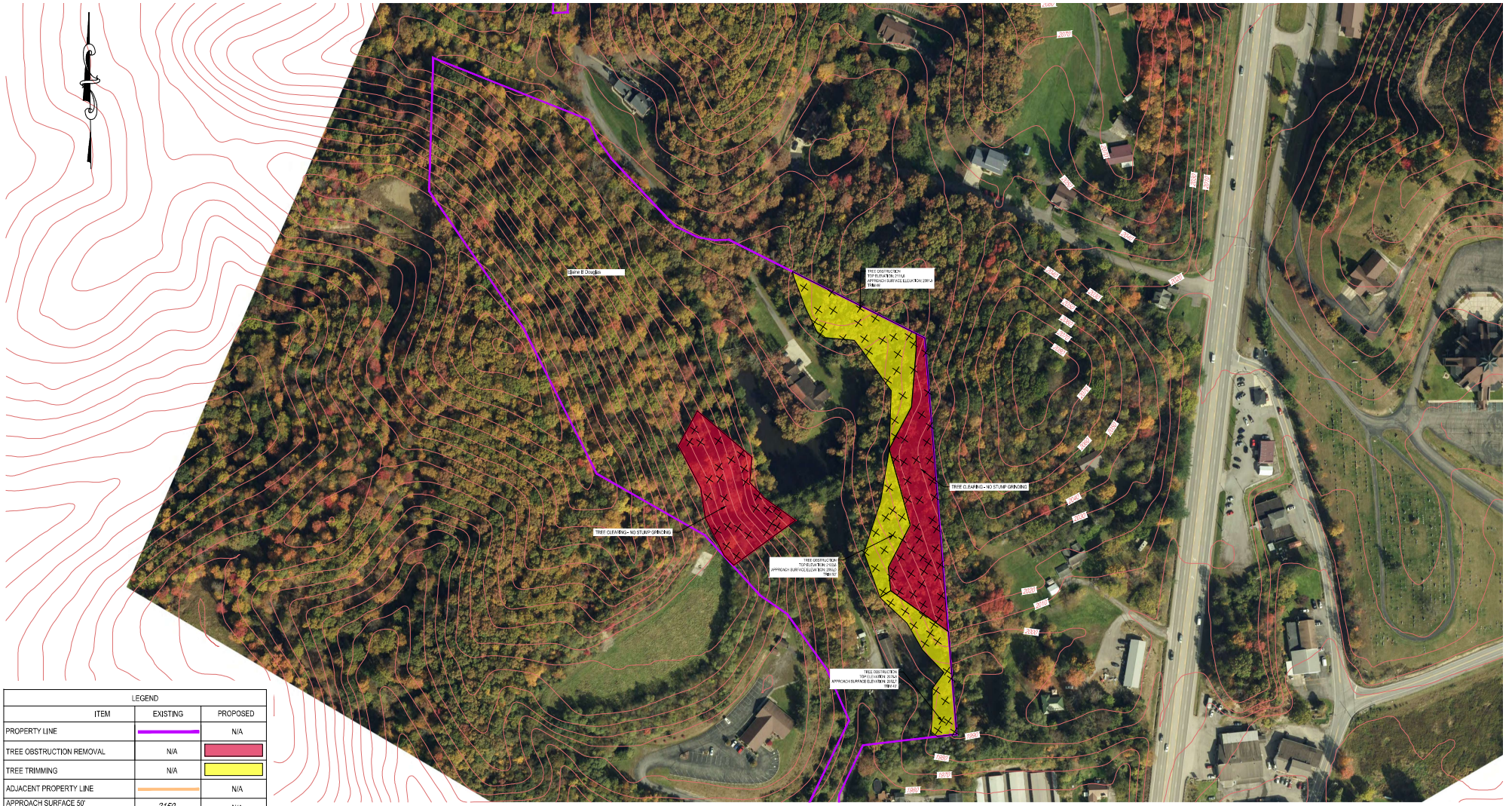
FOXY RENTALS TAX PARCEL - 23-33 (ADD ALTERNATE BID NO. 3)

AP-34

PROJECT NO P707230229 DATE DECEMBER 2023

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IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING



LEGEND		
ITEM	EXISTING	PROPOSED
PROPERTY LINE		N/A
TREE OBSTRUCTION REMOVAL	N/A	
TREE TRIMMING	N/A	
ADJACENT PROPERTY LINE		N/A
APPROACH SURFACE 50' INDEX LINE	2150	N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)		N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)		N/A

Douglas James P & Elaine B
Parcel ID 42-10-0136-0002-0000
Parcel # 0002
Deed Book/page 403 / 634
Acreage 20.77

NOTE: PROPERTY INFORMATION WAS TAKEN FROM THE DEED OF RECORD AND IS NOT TO BE CONSIDERED AS A BOUNDARY SURVEY.

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Phone: 814.472.7700
Email: madelbaugh@transystems.com
Website: www.transystems.com

MELISSA A. DERBAUGH
40752
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER
12/13/2023

DESIGNED	MAD	12/23
DRAWN	RAK	12/23
CHECKED	CRM	12/23
APPROVED	MAD	12/23

DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

DOUGLAS TAX PARCEL - 136-2 (ADD ALTERNATE BID NO. 3)

AP-35

PROJECT NO P707230229

DATE DECEMBER 2023

G:\Projects_2023\EB707\707230229\Aviation\9000 DELIVERABLES\9300 CADD\PLAN SET\P-EKN-DOUGLAS-136-2

IF THIS DRAWING IS LESS THAN 22" X 34" IT IS A REDUCED SIZE DRAWING

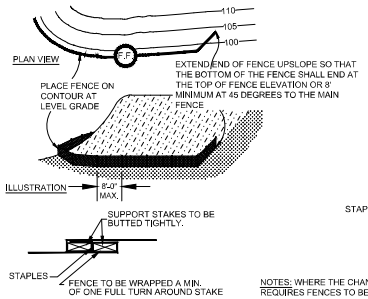
MAXIMUM SLOPE LENGTH (FT.) ABOVE FENCES			
SLOPE-PERCENT	16" HIGH FENCE	SLOPE-PERCENT	16" HIGH FENCE
2 (or less)	250	30	15
5	100	35	15
10	50	40	15
15	35	45	10
20	25	50	10
25	20		

FILTER FABRIC NOTES:

1. FILTER FABRIC FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST EXTEND AT LEAST 8' UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
2. SILT BARRIER FENCES WILL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THE SEDIMENT REACHES ONE-HALF OF THE FENCE'S HEIGHT. IF THE FENCE FAILS TO HOLD IN ANY WAY, THE FAILED SECTION WILL BE REPLACED WITH AN AASHTO #57 ROCK FILTER OUTLET IMMEDIATELY. REFER TO THE DETAIL.
3. PRIOR TO THE FINAL REMOVAL OF FENCES FOLLOWING ALL STAGES OF CONSTRUCTION THE ACCUMULATED SEDIMENT WILL BE REMOVED. AFTER REMOVAL, REGRADE AND RESEED AS REQUIRED.

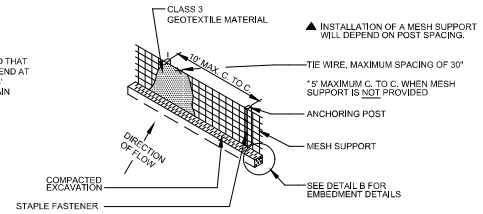
MATERIAL NOTES:

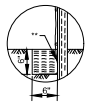
1. WIRE MESH SUPPORT: METALIC COATED STEEL 14.5 GAGE WIRE MESH, ARRANGED IN A MAXIMUM GRID OF 6" X 6". AN ALTERNATE, ACCEPTABLE, EQUIVALENT PLASTIC MESH MAY BE USED.
2. POSTS: OF SUFFICENT LENGTH FOR 18" EMBEDMENT IN THE GROUND. EITHER WOOD, NOMINAL 2.0" SQUARE, OR STEEL 1.25" X 1" T-SECTION OR EQUIVALENT, OR ACCEPTABLE PLASTIC, WITH AN EQUIVALENT SECTION.
3. FASTENERS: NO.9 STAPLES, 1.5" LONG, OR TIE WIRES, 17 GAUGE STEEL, OF APPROPRIATE LENGTH, ACCEPTABLY METALIC COATED.
4. WOVEN WIRE FENCE TO BE FASTEND SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
5. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 30" AT TOP AND MID-SECTION.
6. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED BY 6" AND FOLDED.
7. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATLY REPLACED WITH A ROCK FILTER OUTLET.



FOR FENCE SECTIONS WHICH REQUIRE A SPLICE THE LAPJOINT WILL BE CONSTRUCTED AS ABOVE.

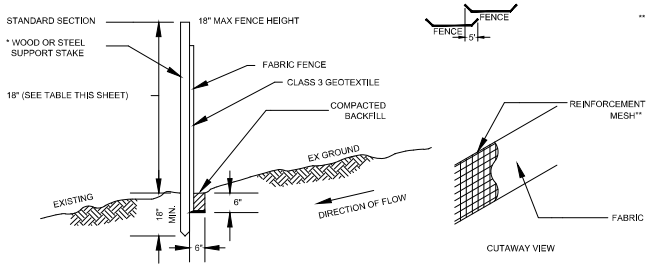
NOTES: WHERE THE CHANGE IN CONTOURS REQUIRES FENCES TO BE STAGGERED AS SHOWN BELOW, THE CONTRACTOR SHALL ENSURE THAT THE FENCE END COVERAGE OVERLAPS A MINIMUM OF 5'





** EXTEND FABRIC 8" TO 12" INTO EXCAVATED TRENCH

DETAIL B



* 2"X2"X3'-0" HANDWOOD STAKES OR 3'-0" STEEL SUPPORT STAKES

* SPACING OF SUPPORT STAKES @ 8' MAX.

**MESH: EITHER INDUSTRIAL POLYPROPOLENE OR STEEL MESH WITH MAX. 6" OPENING = 1" - MIN. 14 Ga.

SFI SILT BARRIER FENCE INSTALLATION DETAIL

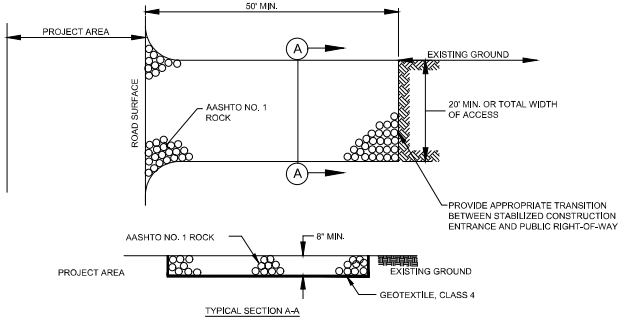
NOT TO SCALE

TABLE 652.5-SEED MIXTURES
WV DOH STANDARD SPECIFICATIONS

Variety of Seed	Type B	Type C**		Type D	Type L
		C-1	C-2		
	Medians, Shoulders (Ditch Slope) Waterways, and Mowable Areas of Interchange*	Coarse Lawn Grass ---------- For Use in Urban and Rest Area Locations	Fine Lawn Grass ---------- For Use where a Fine Lawn is Desired	Cut and Fill Slopes ---------- (Including Benches and Bifurcated Median)	All areas
	Lb. per acre	Lb. per acre	Lb. per acre	Lb. per acre	Lb. per acre
Kentucky 31 Fescue	65	45		20	
Red Fescue (Pennlawn)	20	20	20	20	41
Kentucky Bluegrass		25	40		
Merion Bluegrass			30		
Crown Vetch				20	
Hard Fescue Mixture***					63
White Dutch Clover	3				
Annual Ryegrass Aug 1 to May 15 or Weeping Lovegrass May 15 to Aug 1	7 3	7 3	7	7 3	12 5

* Areas will be considered mowable when slopes are 3 to 1 or flatter.
** Type C-1 and C-2 seed mixtures shall be used in all urban, suburban, and rest areas where lawn type turf is desired with mowing maintenance intended. C-2 lawn mixture shall be used along sidewalks, adjacent to private lawns.
*** A combination of approved certified varieties with no one variety exceeding 50% of the total hard fescue component.

TEMPORARY AND PERMANENT MULCHING TABLE	
TYPE OF MULCH	Rate of Application (lbs./1,000sy)
Temporary WOOD FIBER - Specially prepared, biodegradable, air-dried wood fibers manufactured from 100% wood chips or bark from lumber mill processing operations, tinted with nontoxic, green dye and containing an organic tackifier approved for use with wood fibers	160
Permanent WOOD FIBER - Specially prepared, biodegradable, air-dried wood fibers manufactured from 100% wood chips or bark from lumber mill processing operations, tinted with nontoxic, green dye and containing an organic tackifier approved for use with wood fibers	160



TYPICAL SECTION A-A

NOTES:
1. THE EXISTING PAVED ROADWAYS WILL BE KEPT CLEAN OF ALL SEDIMENT AND WILL BE INSPECTED DAILY BY THE CONTRACTOR. WHEN THE LOOSE STONE TIRE TREAD CLEANER AT THE CONSTRUCTION ENTRANCE BECOMES CHOKED WITH SEDIMENT, THE CONTRACTOR WILL REPLACE THE STONE OR PROVIDE ADDITIONAL TOP DRESSING OF CLEAN AASHTO #1 COARSE AGGREGATE AS DIRECTED BY THE ENGINEER.
2. REMOVE AT THE END OF THE PROJECT.

RCE ROCK CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

TRANSYSTEMS
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Ebensburg, PA 15931
Phone: 814.472.7700
Email: madelibaugh@transystems.com
Website: www.transystems.com

MELISSA A. DERBAUGH, 40752, REGISTERED, STATE OF WEST VIRGINIA, PROFESSIONAL ENGINEER, 12/13/2023

DESIGNED	MAD	12/23 DATE
DRAWN	RAK	12/23 DATE
CHECKED	CRM	12/23 DATE
APPROVED	MAD	12/23 DATE

REVISION		
DATE	BY	DESCRIPTION

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT AUTHORITY
400 Airport Road
Elkins, WV 26241

ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)

ELKINS WEST VIRGINIA

TREE OBSTRUCTION REMOVAL, PHASE 5

MISCELLANEOUS DETAILS

AP-36

PROJECT NO P707230229 DATE DECEMBER 2023

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APPENDIX D
BAT SURVEY REPORT FOR THE ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (2024)

U.S. Fish and Wildlife Service

Study Plan Form for Bat Surveys and Monitoring (v. 2.2)[1]

PROJECT & SURVEY INFORMATION

Project Name: Elkins-Randolph County, Regional Airport - Obstruction Removal

Proposed Survey Start Date: July 22, 2024

Project Proponent's Name (e.g., client/company/institution): TranSytems, Edensburg, PA

Project Location: State(s): West Virginia

County(s): Randolph County

Latitude: 38.90067

Longitude: -79.84710

REQUIRED: Attach or provide links to Google Earth® KMZ files (preferred) and/or shapefiles (mapping must show project boundaries, impacted forest habitat (if known) and all proposed survey sites)

Files are attached: Yes ☑ No ☐

File Links: _____

Project Summary. In the space provided below, please provide a description of the proposed action, including any activities that will permanently or temporarily alter the current environment and existing habitat features.

Approximately 30 acres of forested areas adjacent to an existing airport will have trees cut and trimmed.

CONTACT INFORMATION

Project Manager/Primary Point of Contact (POC): Gary Libby

Phone: (859) 302-2897

Field Survey Crew Leader (if different from POC): _____

Cell Phone: _____

Institution/Company Name: Skybax Ecological Services, LLC

Mailing Address: PO Box 1093, Berea, KY 40403

POC Email Address: garylibby@windstream.net

USFWS Sec. 10(a)(1)(A) Permit No.(s) (if applicable): TE156392-4

State Permit No.(s) (if applicable): applied for

[1] Unless otherwise directed by the Service, surveyors may complete this fillable form, in lieu of a traditional narrative format, and submit it (and supporting files) to the Ecological Services Field Office in the state(s) where the work is to be completed (https://www.fws.gov/our-facilities). Use of this form is not a requirement at this time. Our goal is to improve pre-survey coordination and to expedite the Field Office review and approval process. Please submit your study plan at least 15 working days in advance of your proposed survey start date. Suggestions for improving this document may be sent to R4_Bat_Survey_Guidance@fws.gov.

Have project proponents been informed that abiding by protective time-of-year restrictions (where available) may be sufficient to avoid take of federally listed bats and (in some cases) may negate the need for a bat survey? Yes☑ No☐

Have project proponents been informed that the Service does not require presence/probable absence surveys for federally listed species and that presence can be assumed in a project area containing suitable habitat? Yes☑ No☐

Will this survey be conducted on private or public lands? *(Check both if applicable)*: Private☑ Public☐

Has permission of all necessary landowners/managing agencies been obtained? Yes☑ No☐

If no, explain: _____

Does this project have a federal nexus[2]? Yes☐ No☐ Unsure☑

If yes, explain: _____

IPaC[3] Consultation Code (if applicable): 2024-0053235

Purpose of Survey: Official P/A Survey☑ Research☐ Monitoring☐
Educational Outreach/Training Other: _____

Survey Target Species: Indiana bat (IBAT)☑ Northern long-eared bat (NLEB)☑
Tricolored bat (TCB)☑ Other: _____

Has a Phase-1 Habitat Assessment* of the project area been conducted? Yes☑ No☐
If yes, how was the habitat assessment conducted? Field☑ Desktop☐ Combo☐
*(*if available, attach a written report)*

Is suitable habitat[4] present (or assumed present) for all "target" species? Yes☑ No☐

If no, explain: _____

Does this project fall within the outer-tier[5] of any "target" species known home range? Yes☐ No☐ Unsure☑

If yes, which species: _____

Project Configuration

Is this project **linear** (>1 km in total length)? Yes☐ No☑ Combo☐ Unsure☐

If yes, how many 1-km sections containing suitable IBAT/NLEB habitat will be impacted? _____

Is this project **non-linear**? Yes☑ No☐ Combo☐ Unsure☐

If yes, how many acres of suitable IBAT/NLEB habitat is in the overall project area? 30 acres

If yes, how many acres of suitable IBAT/NLEB habitat will be directly impacted/cleared? 30 acres

PROPOSED METHODS & SURVEY LEVEL OF EFFORT[6]

ACOUSTICS

Total number of detector sites proposed to be surveyed: _____ Number of detector nights/site: _____

[2] A project or action that is carried out, authorized, funded, and/or permitted by a federal agency.
[3] https://ipac.ecosphere.fws.gov/
[4] See Appendix A of the Guidelines regarding suitable habitat definitions.
[5] See Appendix G of the Guidelines if you are unclear what the out-tier of a known range includes.
[6] Survey level of effort (acoustic or netting) must be spread over at least two calendar nights/survey site.

Total number of detector nights for entire survey: _____

Total proposed number of calendar nights to complete the entire survey: _____

Detector(s) (Brand, Model): _____ Microphone(s): directional ☐ omnidirectional ☐

Recording Format: Full Spectrum ☐ Zero-Crossing ☐

FWS-Approved[7] Acoustic Bat ID Software: KPro vers.____ KPro Classifier, NA vers. ____ BCID vers.____
Other Candidate Programs (e.g., Sonobat) vers.: _____

Species to be included for automatic software ID classification analysis:

EPFU☐ CORA☐ COTO☐ LABO☐ LACI☐ LANO☐ LASE☐ TABR☐ MYCI☐ MYEV☐ MYGR☐ MYLU☐
MYLE☐ MYSE☐ MYSO☐ MYTH☐ MYVO☐ NYHU☐ PESU☐ Others:_____

Will qualitative analysis (i.e., manual vetting) be used? Yes☐ No☐ Unsure☐

Name(s) of qualified biologist(s) conducting qualitative/manual identifications (attach resume or link with qualifications):

_____

MIST-NETTING

Total number of net sites to be surveyed: 5 sites Total number of net nights/site: 6 net-nights

Total number of net nights for entire survey (No. of sites X No. of net nights/site): 30 net-nights

Total proposed number of calendar nights to complete the entire survey: 10 calendar nights

A) Maximum number of net set-ups that will be operated/checked (10-min interval) on a given calendar night at a given survey site: 3
B) Minimum Number of personnel present to operate/check X (see A) net set-ups on a given site: 2
C) Proposed Staffing Rate (A divided by B): 1.5

Staffing Rate

Number of Section 10-permitted biologists per net site (or state-permitted in USFWS R5): 1 or 2

Do you propose to band bats? Yes☐ No☑

If yes, please answer the following:

What species will be banded? COTO☐ MYGR☐ MYLU☐ MYSE☐ MYSO☐ PESU☐
Others:_____ All captured bats:
If banding *Myotis* sp. or PESU, specify band size: _____
Describe your proposed bands (color and letter-numbers) and banding scheme: _____
Will banding pliers be used? Yes☐ No☐

Will any biological samples be collected from captured bats (e.g., guano, hair, swab, wing punch)? Yes☐ No☑

If yes, explain: _____

Name of institution or facility to conduct DNA analysis: _____

RADIO-TRACKING

Will any bats be radio-tagged and tracked? Yes☑ No☐

[7] https://www.fws.gov/media/automated-acoustic-bat-id-software-programs

If yes, please answer following:

Which species will be radio-tagged? MYSO, MYSE

Name of USFWS Section 10 permitted biologist(s) who will apply transmitter(s): Gary Libby

Make/model and approximate weight of transmitter(s) to be used: Holohil LB-2

Manufacturer date and estimated life-span of transmitters to be used: 2024, 14 days

Frequency range (MHz) of transmitters (e.g., 150.xxx or 172.xxx): 172.000-172.999

If radio-tracking multiple targeted bats/species, what criteria will be used in selecting which bats will be tracked?
Priority will be given to adult females showing signs of reproduction.

Will all radio-tagged bats be tracked (min. of 4-hrs. search effort/day) to their diurnal roosts for the minimum recommended period of 7 days? Yes☑ No☐

If no, explain: _____

Will night-time foraging data/telemetry be collected? Yes☑ No☐

Glue used for attaching transmitters: Type: Silicone-based Surgical Adhesive Name: Uro-Bond III 5000

Manufacturer: 3M Other: _____

EMERGENCE SURVEYS

After diurnal roost sites of radio-tagged bats are identified, will emergence surveys be conducted at each identified roost (assuming landowner permission is obtained)? Yes☑ No☐

If yes, how many emergence surveys/roost? _____

Have you identified a small number (e.g., ≤10) of potentially suitable roost trees* that you propose to conduct emergence surveys for? Yes☐ No☑

*(*If yes, provide photographs of each tree documenting that all of the tree can be observed by the surveyor along with coordinates (lat/long and/or KML/shapefile) of all trees to be surveyed.)*

POTENTIAL HIBERNACULA SURVEYS

Are you aware of any known hibernacula used by the target species within the project area itself or nearby?

Yes☐ No☑ Unknown☐

If yes or unknown, list sites or explain: _____

Has your desktop analysis identified any natural or man-made features that could be used as a hibernaculum by any of the target bat species? Yes☐ No☑ Unknown☐

If yes, underground features (e.g., caves, mines, tunnels, bunkers, cisterns) present: Yes☐ No☐

If yes, above-ground features* (e.g., crawl spaces) present: Yes☐ No☐

If unknown, explain: _____

Are you requesting approval of a field survey for potential hibernacula at this time? Yes*☐ No☑

*(*If yes, attach a separate narrative explaining how the project area(s) will be surveyed for potential hibernacula.)*

Are you submitting the results of a Phase 1 Habitat Assessment of potentially suitable hibernacula identified from field surveys? Yes*☐ No☑

*(*If yes, provide a Phase 1 Habitat Assessment Data Sheet for each potential hibernaculum/portal(s)[8] identified to be surveyed.)*

BRIDGE & CULVERT ASSESSMENTS

Will any bridges or culverts be surveyed for bat presence? Yes☑ No☐

If yes, please answer the following:

[8] If multiple cave entrances/portals, please list all locations.

Structure type(s) (check all that apply): Bridge ☑ Culvert ☑ Other ☐
If "other", explain: _____

Survey methodology for structure(s) (check all that apply):
Visual inspection ☑ Guano collection ☐ Emergence survey ☐ Acoustics* ☐
Mist-net* ☐ Harp-trap* ☐ Other _____
*(*Due to site-specific conditions of structures, coordination with the local USFWS Field Office and appropriate state agency(ies) is necessary before proceeding with these survey methodologies)*

Will guano be collected and analyzed to confirm species ID? Yes ☐ No ☑
If "yes", name of institution/entity performing analysis: _____

ADDITIONAL SURVEY INFORMATION[9]

Will the proposed bat survey deviate from the current version of the USFWS Survey Guidelines?[10] Yes ☐ No ☑

If yes, provide justification for any departures or modifications to the guidelines (if applicable) below:

I hereby acknowledge that the information being provided to the Service is accurate and complete as of today's date.

Signature: _____ Date: 7/3/2024

[9] Attach additional pages to this form, if needed.

[10] Proposed surveys deviating from the current Range-wide IBAT & NLEB Survey Guidelines will only be accepted with a thoroughly described justification. Coordinate with your local USFWS Field Office (https://www.fws.gov/our-facilities) for acceptable modifications.

From: Hodges, Joe A
Sent: Tuesday, July 9, 2024 8:48 AM
To: garylibby@windstream.net
Cc: West Virginia FO, FWS
Subject: 2024-0053235

Gary,

I'm in receipt of your July 3, 2024, email regarding a proposed bat survey for the Elkins-Randolph County Regional Airport – Obstruction Removal Project.

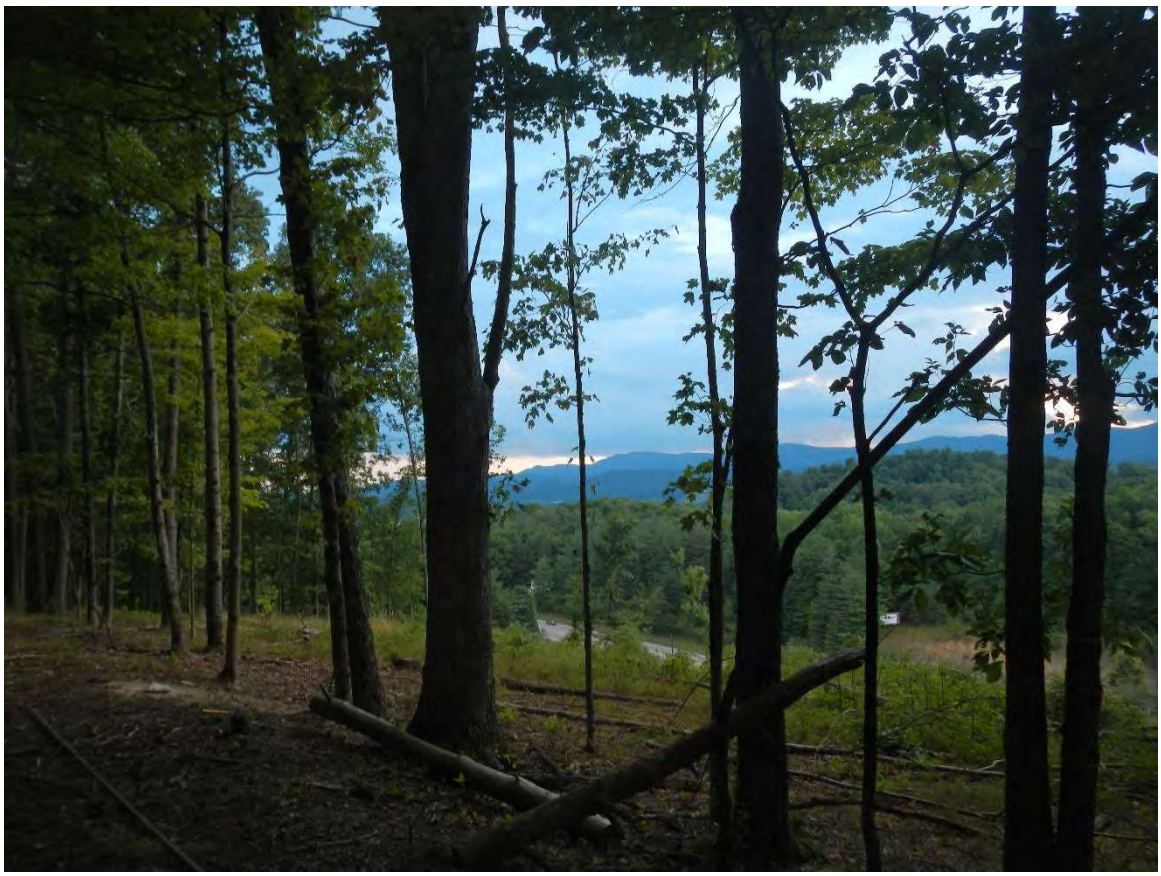
Based on the project location information provided, presence/probable absence surveys for listed bats are recommended for this project; please provide the survey report to our office once complete. Please note, it is the permitted biologist's responsibility to follow the 2024 range-wide Indiana Bat and Northern long-eared bat survey guidelines (Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines | U.S. Fish & Wildlife Service (fws.gov) and the WVFO will not be providing specific feedback on the survey plans.

Thanks,

Joe

Joe Hodges
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
6263 Appalachian Highway
Davis, WV 26260
304-866-3858 X 1618 (office)

Bat Survey Report for the Elkins – Randolph County Regional Airport
Elkins, West Virginia



SKYBAX ECOLOGICAL SERVICES

PO Box 1093
Berea, KY 40403
(859) 302-2897

August 5, 2024

I. INTRODUCTION

The Elkins – Randolph County Regional Airport is proposing tree clearing and trimming at 9 locations, encompassing about 30 acres (see attached maps). Skybax Ecological Services, LLC, Berea, KY, was contracted by TranSystems, Ebensburg, PA, to conduct a presence/probable absence for Indiana, Northern Long-eared, and Tri-colored bat in the area.

II. STUDY AREA

The study area is located adjacent to the Elkins – Randolph County Regional Airport in Elkins, West Virginia (see attached maps). This area is situated within the Allegheny Mountain and Upland Section of West Virginia. The forest is classified as Northern Hardwood cover type.

III. METHODS

Using the *2024 Range-wide Indiana Bat Survey Guidelines,* a study plan was developed proposing that mist netting would be done at five (5) sites for two (2) nights each, using 3 mist net sets per night. This results in a total effort of 30 net nights.

IV. RESULTS

Mist net arrays were set up prior to dusk each evening. Mist netting was done beginning at dusk and continued for at least five hours (typically around 9:00 pm to 2:00 am). Mist netting was not done in continuous rain or low temperatures (below 50 degrees Fahrenheit). All bats were identified, sexed, aged, measured, weighed, and photographed.

Mist netting was done at five (5) sites for two (2) nights each using three (3) mist net sets (30 net-nights). Surveys were conducted from July 28th through August 3rd. Temperatures were between 62 and 79 degrees Fahrenheit each night. Site leaders were Gary Libby (Sites 1,2, 3, and 4) and Hunter Stuart (Sites 1, 2, 3, and 5). Federal T&E Recovery Permit (TE156392-4) and West Virginia Scientific Collecting Permits (2024.299 and 2024.298) are attached.

A total of 39 bats were captured during mist net surveys. Species consisted of Big Brown bats (*Eptesicus fuscus*) (n=29) and Eastern Red bats (*Lasiurus borealis*) (n=10). All bats captured were healthy with no signs of wing damage. Details regarding net setups, bat measurements, and site characteristics are in the attached data sheets. In addition, photographs of all mist net sets and bat species captured are attached.

V. CONCLUSION

No Indiana bats (*Myotis sodalis*), Northern Long-eared bats (*Myotis septentrionalis*), or Tri-colored bats (*Perimyotis subflavus*) were captured during summer mist netting surveys conducted in the study area. The proposed tree clearing and trimming is not likely to affect the continued existence of these species. This report should be submitted to the USFWS Elkins Field Office, WV, for concurrence of findings.

From: Hodges, Joe A
Sent: Tuesday, July 9, 2024 8:48 AM
To: garylibby@windstream.net
Cc: West Virginia FO, FWS
Subject: 2024-0053235

Gary,

I'm in receipt of your July 3, 2024, email regarding a proposed bat survey for the Elkins-Randolph County Regional Airport – Obstruction Removal Project.

Based on the project location information provided, presence/probable absence surveys for listed bats are recommended for this project; please provide the survey report to our office once complete. Please note, it is the permitted biologist's responsibility to follow the 2024 range-wide Indiana Bat and Northern long-eared bat survey guidelines (Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines | U.S. Fish & Wildlife Service (fws.gov) and the WVFO will not be providing specific feedback on the survey plans.

Thanks,

Joe

Joe Hodges
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
6263 Appalachian Highway
Davis, WV 26260
304-866-3858 X 1618 (office)


Site 2
Site 3
Site 1
TRANSYSTEMS
ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)
ELKINS
WEST VIRGINIA
TREE OBSTRUCTION REMOVAL PHASE 5
RUNWAY 23 END SITE PLAN
(ADD ALTERNATE BIDS)
AP-05
P707280028
DECEMBER 2023


Site 4
Site 5
111-73
111-73.1
111-74
110-42
110-42.1
110-42
110-42
LEGEND
ITEM
EXISTING
PROPOSED
TREE OBSTRUCTION REMOVAL
N/A
TREE TRIMMING
N/A
ADJACENT PROPERTY LINE
N/A
TAX PARCEL NUMBER
110-42
N/A
PART 77 NON-PRECISION INSTRUMENT APPROACH SURFACE (20:1 SLOPE)
N/A
THRESHOLD SITING VISUAL APPROACH SURFACE (20:1 SLOPE)
N/A
TRANSYSTEMS
DESIGNED
DRAWN
CHECKED
APPROVED
REVISION
DATE
BY
DESCRIPTION
ELKINS-RANDOLPH COUNTY REGIONAL AIRPORT (EKN)
ELKINS
WEST VIRGINIA
TREE OBSTRUCTION REMOVAL, PHASE 5
RUNWAY 5 END SITE PLAN (BASE BID)
AP-04
PROJECT NO
F707230229
DATE
DECEMBER 2023

NATIVE ENDANGERED & THREATENED SP. RECOVERY

Permit Number: ES156392

Version Number: 4

Effective: 2022-06-15 **Expires:** 2027-06-30

Issuing Office:
Department of the Interior
U.S. FISH AND WILDLIFE SERVICE
ES Atlanta Permit Office
1875 Century Boulevard
Atlanta, Georgia 30345
permitsR4ES@fws.gov

Robert Tawes

FWS T&E Chief

Digitally signed by
Robert Tawes
2022-06-15 08:48:17

Permittee:
Skybax Ecological Services, LLC
107 Vanwinkle Grove
Berea, Kentucky 40403
US

Principal Officer:
Gary W. Libby, Principal Ecologist

Authority: Statutes and Regulations: 16 U.S.C. 1539 (a), 16 U.S.C. 1533 (d), 50 CFR 17.22, 50 CFR 17.32, 50 CFR 13

Location where authorized activity may be conducted:

Alabama, Arkansas, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming.

Reporting requirements:

Annual reports are due by January 31 following each year that this permit is in effect.

NATIVE ENDANGERED & THREATENED SP. RECOVERY

Permit Number: ES156392

Version Number: 4

Effective: 2022-06-15 **Expires:** 2027-06-30

Authorizations and Conditions:

A. General conditions set out in Subpart B of 50 CFR 13, and specific conditions contained in Federal regulations cited above, are hereby made a part of this permit. All activities authorized herein must be carried out in accordance with and for the purposes described in the application submitted. Continued validity, or renewal of this permit is subject to complete and timely compliance with all applicable conditions, including the filing of all required information and reports.

B. The validity of this permit is also conditioned upon strict observance of all applicable foreign, state, local tribal, or other federal law.

C. The following individuals are authorized to conduct activities as authorized by this permit:

All Species: Gary W. Libby

Indiana bat and northern long-eared bat only: B. Hunter Stuart

Trained assistants not named on this permit may work on permitted bat activities under the direct and on-site supervision of the individuals named above. However, trained assistants may not work independently at a site. Trained assistants are individuals who are considered qualified by the permittee to select sampling sites, deploy sampling equipment and nets, and handle bats in the field.

Permittee must remain present at each mist-net and harp-trap site while it is being operated.

D. Acceptance of this permit serves as evidence that the permittee understands and agrees to abide by the terms of this permit and all sections of Title 50 Code of Federal Regulations, Parts 13 and 17, pertinent to issued permits. Section 11 of the Endangered Species Act of 1973, as amended, provides for civil and criminal penalties for failure to comply with the permit conditions. In addition, the permittee shall have all other applicable federal, tribal, state, and/or local government permits prior to the commencement of activities authorized in this permit.

WEST VIRGINIA
DNR

Governor Jim Justice

Director Brett W. McMillion

NUMBER 2024.299

SCIENTIFIC COLLECTING PERMIT

Under Authority Conferred by Chapter 20, Article 2, Section 50, Code of West Virginia, As Amended

Gary Libby
Skybax Ecological Services, LLC
107 Vanwinkle Grove
Berea, KY 40403

is hereby permitted to collect specimens according to the attached application and the Special Provisions on the reverse side of this permit.

This permit is not transferable and expires on August 16, 2024.

A complete list of all specimens collected will be kept and reported to the Director of the Division of Natural Resources of West Virginia no later than 45 days after the expiration date of this permit.

PERMIT PROVISIONS

I understand that (1) The privileges granted under this permit are not transferable, and to allow anyone other than myself to use my permit is unlawful and will be considered cause for revocation of said permit; (2) A Federal Scientific Collection Permit issued by the U.S. Department of Interior must be obtained before any migratory birds, or their nests or eggs, are collected or held in captivity; (3) The Federal Permit does not extend the privileges of the permittee beyond those granted by the Division of Natural Resources; (4) Permission must be obtained from either the owner or the custodian of any fenced or posted land before entering same for the purpose of collecting scientific specimens; (5) It is unlawful to sell, offer for sale, barter, or offer to barter any wildlife collected; (6) When traps or nets or other devices are used UNATTENDED while exercising the privileges of this permit, said traps, nets, or devices must have attached thereto a tag bearing the name, address and number of the Scientific Collecting Permit; (7) It is unlawful to take or attempt to take any wildlife under said permit except for scientific and propagation purposes; (8) A hunting or fishing license must be obtained before specimens may be taken for sport; (9) Only those species or classes of wildlife listed below, and in the numbers stated, may be lawfully taken under said permit; and (10) I am required by law to carry my Scientific Collecting Permit, on my person while exercising the privileges granted thereunder, and to exhibit the permit to anyone requesting to see the same.

Must be signed before valid.

Gary Libby

Signature of permittee

Director, WVDNR

Date of issue 7/11/2024

WEST VIRGINIA DIVISION OF NATURAL RESOURCES | BRETT W. MCMILLION | DIRECTOR
324 4th Avenue | South Charleston, WV 25303 | ph (304) 558-2754 | fax (304) 558-2768 | WVdnr.gov