

Appendix B

Survey and GIS Data

Appendix B is partially comprised of Geophysical data (various digital formats) that could not be converted to PDF.

The data that could be converted to PDF follows this page.

MRS-5 MEC BOUNDARY DESCRIPTION

A parcel of land situated in Sections 26 and 35, all lying in Township 15 South, Range 8 East, Huntsville Meridian, Calhoun County, Alabama, and being more particularly described as follows:

COMMENCING at the Southwest corner of Section 22, Township 15 South, Range 8 East, Huntsville Meridian, Calhoun County, Alabama; runs thence South 89 degrees 12 minutes 06 seconds East, 8,086.00 feet; thence South 00 degrees 47 minutes 54 seconds West, 4,144.86 feet to a Mag Hub set 20 feet southwest of a road in the west line of the U.S. Fish and Wildlife Service Mountain Longleaf National Wildlife Refuge, at the **POINT OF BEGINNING of MRS-5**, being the northern corner of the tract described herein, a common corner with MEC area MRS-2, and having Alabama State Plane, East Zone, Coordinates of North: 1,160,539.9 feet, and East: 675,907.6 feet; runs thence with the Mountain Longleaf National Wildlife Refuge follows:

South 45 degrees 17 minutes 52 seconds East, 54.14 feet;
Along a curve to the left 175.45 feet, having a radius of 2,390.47 feet, and being subtended by a chord bearing and distance of South 47 degrees 00 minutes 06 seconds east, 175.41 feet;
South 48 degrees 19 minutes 24 seconds East, 117.89 feet;
Along a curve to the left 284.51 feet, having a radius of 475.90 feet, and being subtended by a chord bearing and distance of South 64 degrees 53 minutes 41 seconds East, 280.29 feet;
South 85 degrees 55 minutes 32 seconds East, 93.73 feet;
Along a curve to the right 181.99 feet, having a radius of 874.72 feet, and being subtended by a chord bearing and distance of South 81 degrees 43 minutes 010 seconds East, 181.67 feet;
South 74 degrees 51 minutes 43 seconds East, 163.07 feet;
Along a curve to the right 231.48 feet, having a radius of 320.82 feet, and being subtended by a chord bearing and distance of south 58 degrees 03 minutes 46 seconds East, 226.49 feet;
South 40 degrees 51 minutes 51 seconds East, 506.41 feet;
Along a curve to the left 232.63 feet, having a radius of 1478.16 feet, and being subtended by a chord bearing and distance of South 46 degrees 14 minutes 13 seconds East, 232.39 feet;
South 53 degrees 15 minutes 22 seconds East, 163.70 feet;
Along a curve to the left 195.71 feet, having a radius of 661.07 feet, and being subtended by a chord bearing and distance of South 59 degrees 54 minutes 07 seconds East, 195.00 feet;
South 66 degrees 57 minutes 45 seconds East, 61.66 feet;
Along a curve to the right 162.98 feet, having a radius of 207.83 feet, and being subtended by a chord bearing and distance of South 47 degrees 05 minutes 10 seconds East, 158.83 feet;
Along a curve to the left 134.13 feet, having a radius of 1204.57 feet, and being subtended by a chord bearing and distance of South 33 degrees 11 minutes 17 seconds East, 134.06 feet;
Along a curve to the right 76.84 feet, having a radius of 624.51 feet, and being subtended by a chord bearing and distance of South 31 degrees 34 minutes 28 seconds East, 76.79 feet to a U.S. Fish & Wildlife Service concrete monument found;
Along a curve to the left 78.65 feet, having a radius of 134.36 feet, and being subtended by a chord bearing and distance of South 24 degrees 36 minutes 26 seconds West, 77.53 feet;
South 10 degrees 34 minutes 34 seconds West, 135.73 feet;
Along a curve to the right 56.20 feet, having a radius of 59.09 feet, and being subtended by a chord bearing and distance of South 26 degrees 35 minutes 33 seconds West, 54.11 feet;
Along a curve to the left 114.46 feet, having a radius of 220.46 feet, and being subtended by a chord bearing and distance of South 36 degrees 22 minutes 34 seconds West, 113.17 feet;
Along a curve to the right 89.48 feet, having a radius of 687.61 feet, and being subtended by a chord bearing and distance of South 29 degrees 08 minutes 58 seconds West, 89.42 feet;
South 31 degrees 25 minutes 48 seconds West, 48.79 feet to a Mag Hub Set;
Along a curve to the right 124.04 feet, having a radius of 97.32 feet, and being subtended by a chord bearing and distance of South 13 degrees 05 minutes 03 seconds East, 115.81 feet;
Along a curve to the left 87.20 feet, having a radius of 259.36 feet, and being subtended by a chord bearing and distance of South 17 degrees 15 minutes 56 seconds West, 86.79 feet;
South 05 degrees 56 minutes 55 seconds West, 32.73 feet to a Mag Hub Set;

North 80 degrees 43 minutes 10 seconds West, 124.38 feet;
 North 70 degrees 53 minutes 10 seconds West, 99.58 feet;
 Along a curve to the left 117.78 feet, having a radius of 92.93 feet, and being subtended by a chord
 bearing and distance of South 69 degrees 39 minutes 21 seconds West, 110.06 feet;
 South 44 degrees 53 minutes 16 seconds West, 78.15 feet;
 South 40 degrees 05 minutes 02 seconds West, 92.75 feet;
 Along a curve to the left 150.74 feet, having a radius of 138.86 feet, and being subtended by a chord
 bearing and distance of South 18 degrees 36 minutes 30 seconds West, 143.45 feet;
 South 09 degrees 55 minutes 10 seconds East, 84.68 feet;
 Along a curve to the right 124.09 feet, having a radius of 187.48 feet, and being subtended by a chord
 bearing and distance of South 05 degrees 52 minutes 48 seconds West, 121.84 feet to a U.S. Fish & Wildlife Service
 concrete monument found;
 South 21 degrees 17 minutes 32 seconds West, 213.74 feet;
 South 21 degrees 36 minutes 17 seconds West, 123.58 feet;
 Along a curve to the left 123.64 feet, having a radius of 371.45 feet, and being subtended by a chord
 bearing and distance of South 20 degrees 30 minutes 51 seconds West, 123.07 feet;
 Along a curve to the right 82.60 feet, having a radius of 998.29 feet, and being subtended by a chord
 bearing and distance of South 15 degrees 21 minutes 18 seconds West, 82.57 feet;
 South 13 degrees 20 minutes 47 seconds West, 165.88 feet;
 Along a curve to the right 187.65 feet, having a radius of 642.06 feet, and being subtended by a chord
 bearing and distance of South 18 degrees 52 minutes 40 seconds West, 186.98 feet to a U.S. Fish & Wildlife Service
 concrete monument found;
 Along a curve to the right 262.39 feet, having a radius of 1,051.65 feet, and being subtended by a chord
 bearing and distance of South 35 degrees 50 minutes 49 seconds West, 261.71 feet;
 South 46 degrees 42 minutes 36 seconds West, 188.38 feet;
 South 50 degrees 27 minutes 12 seconds West, 223.01 feet;
 Along a curve to the left 172.37 feet, having a radius of 409.45 feet, and being subtended by a chord
 bearing and distance of South 48 degrees 47 minutes 28 seconds West, 171.10 feet;
 Along a curve to the right 157.33 feet, having a radius of 148.86 feet, and being subtended by a chord
 bearing and distance of South 59 degrees 23 minutes 37 seconds West, 150.11 feet;
 South 84 degrees 44 minutes 45 seconds West, 232.91 feet;
 South 87 degrees 32 minutes 53 seconds West, 92.21 feet to a Mag Hub Set at a common corner of MEC
 area MRS-11; runs thence with MRS-11 as follows:
 North 52 degrees 23 minutes 04 seconds West, 327.50 feet to a Mag Hub Set;
 North 74 degrees 07 minutes 34 seconds West, 114.98 feet to a Mag Hub Set;
 South 87 degrees 13 minutes 13 seconds West, 131.68 feet to a Mag Hub Set;
 North 76 degrees 52 minutes 48 seconds West, 95.51 feet to a Mag Hub Set;
 North 89 degrees 46 minutes 04 seconds West, 110.85 feet to a Mag Hub Set;
 North 84 degrees 12 minutes 50 seconds West, 86.33 feet to a Mag Hub Set;
 South 84 degrees 35 minutes 21 seconds West, 208.80 feet to a Mag Hub Set;
 South 78 degrees 36 minutes 11 seconds West, 97.32 feet to a Mag Hub Set;
 South 84 degrees 27 minutes 45 seconds West, 223.42 feet to a Mag Hub Set;
 North 88 degrees 53 minutes 14 seconds West, 181.06 feet to a Mag Hub Set;
 South 60 degrees 19 minutes 15 seconds West, 111.18 feet to a Mag Hub Set;
 South 78 degrees 05 minutes 09 seconds West, 139.35 feet to a Mag Hub Set;
 South 38 degrees 26 minutes 24 seconds West, 89.54 feet to a Mag Hub Set;
 South 54 degrees 16 minutes 42 seconds West, 288.21 feet to a Mag Hub Set;
 South 55 degrees 46 minutes 50 seconds West, 151.00 feet to a Mag Hub Set;
 South 34 degrees 00 minutes 34 seconds West, 77.83 feet to a Mag Hub Set;
 North 02 degrees 14 minutes 54 seconds West, 1,369.28 feet to a Mag Hub Set;
 South 86 degrees 45 minutes 18 seconds East, 43.79 feet;
 South 68 degrees 27 minutes 30 seconds East, 201.82 feet to a Mag Hub Set;

Along a curve to the left 117.38 feet, having a radius of 170.30 feet, and being subtended by a chord bearing and distance of South 88 degrees 12 minutes 14 seconds East, 115.07 feet, to a Mag Hub Set;
North 56 degrees 03 minutes 22 seconds East, 534.46 feet;
North 63 degrees 48 minutes 08 seconds East, 28.52 feet;
North 85 degrees 51 minutes 23 seconds East, 33.47 feet to a Mag Hub Set;
North 15 degrees 51 minutes 14 seconds East, 51.30 feet;
North 18 degrees 08 minutes 56 seconds West, 48.17 feet;
North 41 degrees 26 minutes 39 seconds West, 170.66 feet;
North 51 degrees 56 minutes 12 seconds West, 154.37 feet;
North 79 degrees 41 minutes 46 seconds West, 58.55 feet to a Mag Hub Set at the south corner of MEC area MRS-2; runs thence with MRS-2 as follows:

North 00 degrees 00 minutes 09 seconds East, 75.26 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 00 seconds East, 400.00 feet to a Mag Hub Set;
North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
North 00 degrees 00 minutes 02 seconds West, 355.78 feet to the Point of Beginning, and containing 232.00 Acres, more or less. Bearings are based upon the Alabama State Plane Coordinate System, East Zone, NAD 83.

FORT McCLELLAN

MRS-5 MEC BOUNDARY

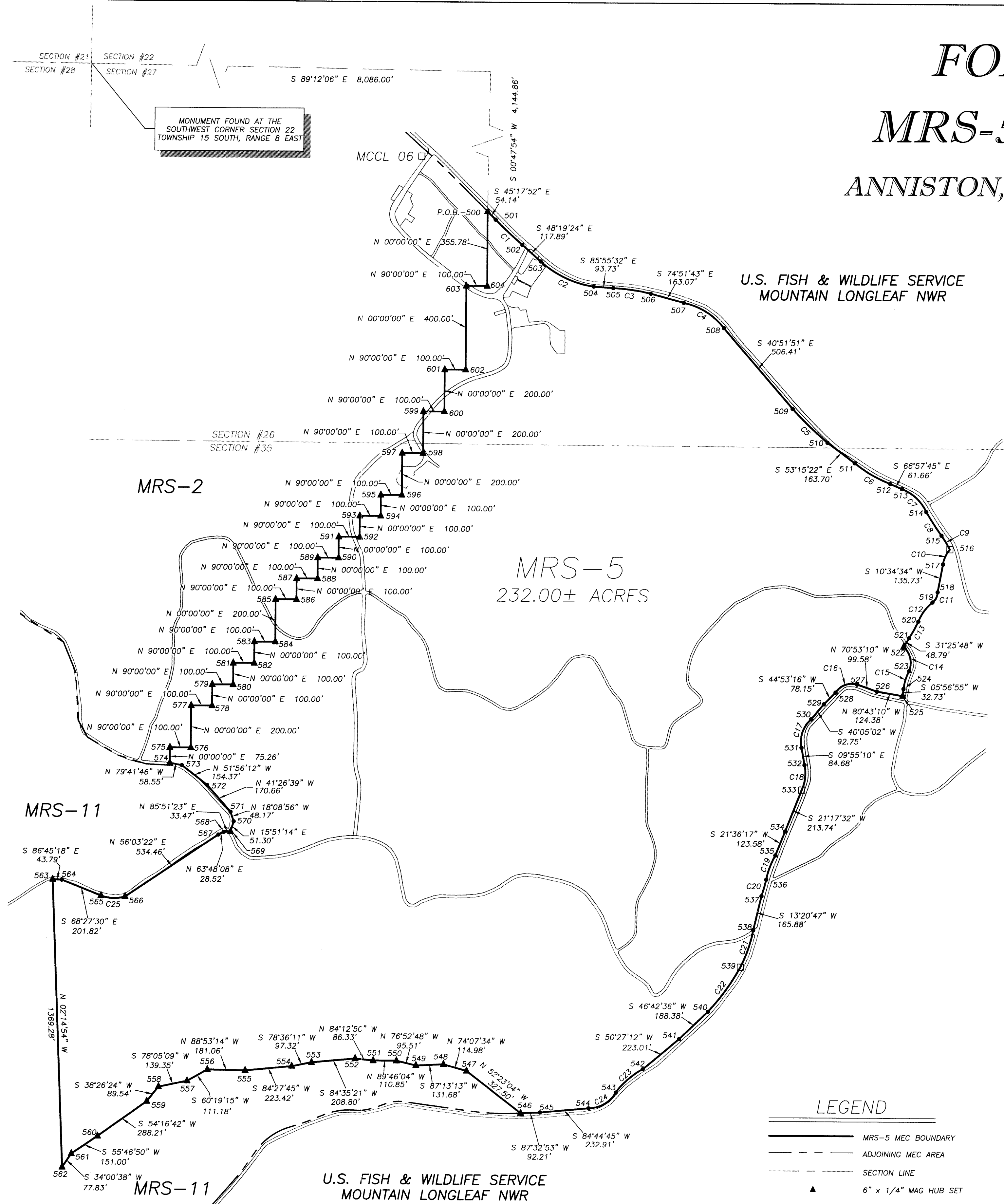
ANNISTON, CALHOUN COUNTY, ALABAMA

MEC BOUNDARY SURVEY
MRS-5
FORMER FT. McCLELLAN
ANNISTON, CALHOUN COUNTY, AL

ALABAMA EAST ZONE
STATE PLANE COORDINATE
SYSTEM, NAD 83

BOUNDARY CORNER TABLE

POINT NO.	NORTHING	EASTING	DESCRIPTION
500	1160539.9	675907.6	Mag Hub Set
501	1160501.9	675946.1	Unmarked
502	1160382.2	676074.4	Unmarked
503	1160303.8	676162.4	Unmarked
504	1160184.9	676416.3	Unmarked
505	1160178.3	676509.7	Unmarked
506	1160152.1	676689.5	Unmarked
507	1160105.5	676846.9	Unmarked
508	1159989.7	677039.1	Unmarked
509	1159606.7	677370.4	Unmarked
510	1159446.0	677538.3	Unmarked
511	1159348.1	677689.5	Unmarked
512	1159200.3	677838.2	Unmarked
513	1159226.1	677894.9	Unmarked
514	1159118.0	678011.2	Unmarked
515	1159005.8	678084.6	Unmarked
516	1158940.4	678124.8	FWS Concrete Monument
517	1158869.9	678092.5	Unmarked
518	1158736.5	678067.6	Unmarked
519	1158688.1	678043.4	Unmarked
520	1158596.9	677976.3	Unmarked
521	1158518.9	677932.7	Unmarked
522	1158477.2	677907.3	Mag Hub Set
523	1158364.4	677933.5	Unmarked
524	1158281.5	677907.7	Unmarked
525	1158246.0	677904.4	Mag Hub Set
526	1158268.1	677781.6	Unmarked
527	1158301.7	677687.5	Unmarked
528	1158263.4	677584.3	Unmarked
529	1158208.0	677529.2	Unmarked
530	1158137.1	677489.5	Unmarked
531	1158001.1	677423.7	Unmarked
532	1157917.7	677438.3	Unmarked
533	1157796.5	677425.8	FWS Concrete Monument
534	1157597.4	677348.2	Unmarked
535	1157482.5	677302.7	Unmarked
536	1157367.2	677259.5	Unmarked
537	1157287.6	677237.7	Unmarked
538	1157126.2	677199.4	Unmarked
539	1156949.3	677138.9	FWS Concrete Monument
540	1156737.1	676985.6	Unmarked
541	1156608.0	676848.5	Unmarked
542	1156466.0	676676.5	Unmarked
543	1156353.2	676547.8	Unmarked
544	1156276.8	676418.6	Unmarked
545	1156255.5	676186.7	Unmarked
546	1156251.5	676094.6	Mag Hub Set
547	1156451.4	675835.1	Mag Hub Set
548	1156482.9	675724.6	Mag Hub Set
549	1156476.5	675593.0	Mag Hub Set
550	1156498.2	675500.0	Mag Hub Set
551	1156498.6	675389.2	Mag Hub Set
552	1156507.3	675303.3	Mag Hub Set
553	1156487.6	675095.4	Mag Hub Set
554	1156468.4	675000.0	Mag Hub Set
555	1156446.9	674777.6	Mag Hub Set
556	1156450.4	674596.6	Mag Hub Set
557	1156395.3	674500.0	Mag Hub Set
558	1156366.5	674383.7	Mag Hub Set
559	1156296.4	674308.0	Mag Hub Set
560	1156128.1	674074.0	Mag Hub Set
561	1156043.2	673949.1	Mag Hub Set
562	1155978.7	673905.6	Mag Hub Set
563	1157346.9	673851.9	Mag Hub Set
564	1157344.5	673895.6	Unmarked
565	1157270.4	674083.3	Mag Hub Set
566	1157266.8	674198.4	Mag Hub Set
567	1157265.2	674841.7	Unmarked
568	1157577.8	674667.3	Unmarked
569	1157580.2	674700.7	Mag Hub Set
570	1157629.5	674714.7	Unmarked
571	1157675.3	674699.7	Unmarked
572	1157803.2	674586.8	Unmarked
573	1157898.4	674465.2	Unmarked
574	1157908.9	674407.6	Mag Hub Set
575	1157984.2	674407.6	Mag Hub Set
576	1157984.2	674507.6	Mag Hub Set
577	1158184.2	674507.6	Mag Hub Set
578	1158184.2	674607.6	Mag Hub Set
579	1158284.2	674607.6	Mag Hub Set
580	1158284.2	674707.6	Mag Hub Set
581	1158384.2	674707.6	Mag Hub Set
582	1158384.2	674807.6	Mag Hub Set
583	1158484.2	674807.6	Mag Hub Set
584	1158484.2	674907.6	Mag Hub Set
585	1158684.2	674907.6	Mag Hub Set
586	1158684.2	675007.6	Mag Hub Set
587	1158784.2	675007.6	Mag Hub Set
588	1158784.2	675107.6	Mag Hub Set
589	1158884.2	675107.6	Mag Hub Set
590	1158884.2	675207.6	Mag Hub Set
591	1158984.2	675207.6	Mag Hub Set
592	1158984.2	675307.6	Mag Hub Set
593	1159084.2	675307.6	Mag Hub Set
594	1159084.2	675407.6	Mag Hub Set
595	1159184.2	675407.6	Mag Hub Set
596	1159184.2	675507.6	Mag Hub Set
597	1159384.2	675507.6	Mag Hub Set
598	1159384.2	675607.6	Mag Hub Set
599	1159584.2	675607.6	Mag Hub Set
600	1159584.2	675707.6	Mag Hub Set
601	1159784.2	675707.6	Mag Hub Set
602	1159784.2	675807.6	Mag Hub Set
603	1160184.2	675807.6	Mag Hub Set
604	1160184.2	675907.6	Mag Hub Set



NOTES

SITUATED IN SECTIONS 26 & 35, LYING IN TOWNSHIP 15 SOUTH, RANGE 8 EAST, HUNTSVILLE MERIDIAN, CALHOUN COUNTY, ALABAMA

REFERENCE: DEED BOOK 3039, PAGE 291 (PROPERTY DESCRIPTION)
DEED BOOK 3125, PAGE 275 (TRANSFER TO THE MDA)

TOTAL AREA: 232.00± ACRES

FIELD SURVEYED 12/16/2012 - 01/04/2013

THE LOCATIONS OF ROADS, BUILDINGS, AND ADJOINING AREAS AS SHOWN HEREON ARE BASED ON A COMPILATION OF FIELD DATA PREVIOUSLY ACQUIRED MAPS AND DRAWINGS AND MAY NOT HAVE BEEN FIELD LOCATED AS PART OF THIS SURVEY.

THIS SURVEY IS INTENDED TO BE USED TO SPECIFY THE LIMITS OF A MEC REMEDIATION AREA ONLY. THIS SURVEY IS NOT INTENDED TO BE USED TO DELINEATE PROPERTY BOUNDARIES FOR TITLE TRANSFER.

CURVE TABLE

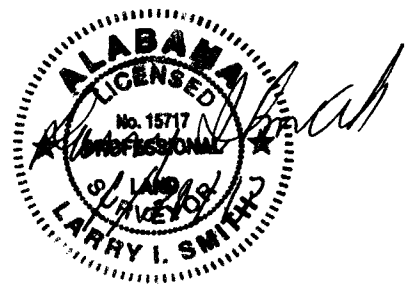
CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	2390.47'	175.45'	S 47°00'06" E	175.41'
C2	475.90'	284.51'	S 64°53'41" E	280.29'
C3	874.72'	181.99'	S 81°43'01" E	181.67'
C4	320.82'	231.48'	S 58°03'46" E	226.49'
C5	1478.16'	232.63'	S 46°14'13" E	232.39'
C6	661.07'	195.71'	S 59°54'07" E	195.00'
C7	207.83'	162.98'	S 47°05'10" E	158.83'
C8	1204.57'	134.13'	S 33°11'17" E	134.06'
C9	624.51'	76.84'	S 31°34'28" E	76.79'
C10	134.36'	78.65'	S 24°36'26" W	77.53'
C11	59.09'	56.20'	S 26°35'31" W	54.11'
C12	220.46'	114.46'	S 36°22'34" W	113.17'
C13	687.61'	89.48'	S 29°08'58" W	89.42'
C14	97.32'	124.04'	S 13°05'03" E	115.81'
C15	259.36'	87.20'	S 17°15'56" W	86.79'
C16	92.93'	117.78'	S 69°39'21" W	110.06'
C17	138.86'	150.74'	S 18°36'30" W	143.45'
C18	187.48'	124.09'	S 05°52'48" W	121.84'
C19	371.45'	123.64'	S 20°30'51" W	123.07'
C20	998.29'	82.60'	S 15°21'18" W	82.57'
C21	642.06'	187.65'	S 18°52'40" W	186.98'
C22	1051.65'	262.39'	S 35°50'49" W	261.71'
C23	409.45'	172.37'	S 48°47'28" W	171.10'
C24	148.86'	157.33'	S 59°23'37" W	150.11'
C25	170.30'	117.38'	S 88°12'14" E	115.07'

LEGEND

- MRS-5 MEC BOUNDARY
- - - ADJOINING MEC AREA
- - - SECTION LINE
- ▲ 6" x 1/4" MAG HUB SET
- CONCRETE MONUMENT FOUND
- UNMARKED BOUNDARY POINT

I HEREBY CERTIFY THAT ALL PARTS OF THIS SPECIFIC PURPOSE SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF. THIS SURVEY WAS CONDUCTED USING GPS RTK SURVEYING AND TOTAL STATION SURVEY EQUIPMENT BY THE METHOD OF RANDOM TRAVERSE. THIS SURVEY WAS ADJUSTED USING LEAST SQUARES.

DATE: JANUARY 30, 2013
LARRY I. SMITH, P.L.S.
ALABAMA REGISTRATION NO. 15717



SHEET: MEC BOUNDARY SURVEY NUMBER: 1 of 1

L. I. SMITH & ASSOCIATES, INC.
SURVEYORS • ENGINEERS
302 North Caldwell Street
Parsippany, Tennessee 38242
731-644-1014 800-247-6647 FAX 731-644-0109
1100 Lebanon Pike, Suite 105
Memphis, Tennessee 38117
901-551-7143 FAX 901-551-0290

DRAWN BY: RWB CHECKED BY: LUS SCALE: 1"= 300' DATE: 07/30/2013 PROJECT # 4002.29.7397

MRS-5 MEC BOUNDARY DESCRIPTION

A parcel of land situated in Sections 26 and 35, all lying in Township 15 South, Range 8 East, Huntsville Meridian, Calhoun County, Alabama, and being more particularly described as follows:

COMMENCING at the Southwest corner of Section 22, Township 15 South, Range 8 East, Huntsville Meridian, Calhoun County, Alabama; runs thence South 89 degrees 12 minutes 06 seconds East, 8,086.00 feet; thence South 00 degrees 47 minutes 54 seconds West, 4,144.86 feet to a Mag Hub set 20 feet southwest of a road in the west line of the U.S. Fish and Wildlife Service Mountain Longleaf National Wildlife Refuge, at the **POINT OF BEGINNING of MRS-5**, being the northern corner of the tract described herein, a common corner with MEC area MRS-2, and having Alabama State Plane, East Zone, Coordinates of North: 1,160,539.9 feet, and East: 675,907.6 feet; runs thence with the Mountain Longleaf National Wildlife Refuge follows:

South 45 degrees 17 minutes 52 seconds East, 54.14 feet;
Along a curve to the left 175.45 feet, having a radius of 2,390.47 feet, and being subtended by a chord bearing and distance of South 47 degrees 00 minutes 06 seconds east, 175.41 feet;
South 48 degrees 19 minutes 24 seconds East, 117.89 feet;
Along a curve to the left 284.51 feet, having a radius of 475.90 feet, and being subtended by a chord bearing and distance of South 64 degrees 53 minutes 41 seconds East, 280.29 feet;
South 85 degrees 55 minutes 32 seconds East, 93.73 feet;
Along a curve to the right 181.99 feet, having a radius of 874.72 feet, and being subtended by a chord bearing and distance of South 81 degrees 43 minutes 010 seconds East, 181.67 feet;
South 74 degrees 51 minutes 43 seconds East, 163.07 feet;
Along a curve to the right 231.48 feet, having a radius of 320.82 feet, and being subtended by a chord bearing and distance of south 58 degrees 03 minutes 46 seconds East, 226.49 feet;
South 40 degrees 51 minutes 51 seconds East, 506.41 feet;
Along a curve to the left 232.63 feet, having a radius of 1478.16 feet, and being subtended by a chord bearing and distance of South 46 degrees 14 minutes 13 seconds East, 232.39 feet;
South 53 degrees 15 minutes 22 seconds East, 163.70 feet;
Along a curve to the left 195.71 feet, having a radius of 661.07 feet, and being subtended by a chord bearing and distance of South 59 degrees 54 minutes 07 seconds East, 195.00 feet;
South 66 degrees 57 minutes 45 seconds East, 61.66 feet;
Along a curve to the right 162.98 feet, having a radius of 207.83 feet, and being subtended by a chord bearing and distance of South 47 degrees 05 minutes 10 seconds East, 158.83 feet;
Along a curve to the left 134.13 feet, having a radius of 1204.57 feet, and being subtended by a chord bearing and distance of South 33 degrees 11 minutes 17 seconds East, 134.06 feet;
Along a curve to the right 76.84 feet, having a radius of 624.51 feet, and being subtended by a chord bearing and distance of South 31 degrees 34 minutes 28 seconds East, 76.79 feet to a U.S. Fish & Wildlife Service concrete monument found;
Along a curve to the left 78.65 feet, having a radius of 134.36 feet, and being subtended by a chord bearing and distance of South 24 degrees 36 minutes 26 seconds West, 77.53 feet;
South 10 degrees 34 minutes 34 seconds West, 135.73 feet;
Along a curve to the right 56.20 feet, having a radius of 59.09 feet, and being subtended by a chord bearing and distance of South 26 degrees 35 minutes 33 seconds West, 54.11 feet;
Along a curve to the left 114.46 feet, having a radius of 220.46 feet, and being subtended by a chord bearing and distance of South 36 degrees 22 minutes 34 seconds West, 113.17 feet;
Along a curve to the right 89.48 feet, having a radius of 687.61 feet, and being subtended by a chord bearing and distance of South 29 degrees 08 minutes 58 seconds West, 89.42 feet;
South 31 degrees 25 minutes 48 seconds West, 48.79 feet to a Mag Hub Set;
Along a curve to the right 124.04 feet, having a radius of 97.32 feet, and being subtended by a chord bearing and distance of South 13 degrees 05 minutes 03 seconds East, 115.81 feet;
Along a curve to the left 87.20 feet, having a radius of 259.36 feet, and being subtended by a chord bearing and distance of South 17 degrees 15 minutes 56 seconds West, 86.79 feet;
South 05 degrees 56 minutes 55 seconds West, 32.73 feet to a Mag Hub Set;

North 80 degrees 43 minutes 10 seconds West, 124.38 feet;
 North 70 degrees 53 minutes 10 seconds West, 99.58 feet;
 Along a curve to the left 117.78 feet, having a radius of 92.93 feet, and being subtended by a chord
 bearing and distance of South 69 degrees 39 minutes 21 seconds West, 110.06 feet;
 South 44 degrees 53 minutes 16 seconds West, 78.15 feet;
 South 40 degrees 05 minutes 02 seconds West, 92.75 feet;
 Along a curve to the left 150.74 feet, having a radius of 138.86 feet, and being subtended by a chord
 bearing and distance of South 18 degrees 36 minutes 30 seconds West, 143.45 feet;
 South 09 degrees 55 minutes 10 seconds East, 84.68 feet;
 Along a curve to the right 124.09 feet, having a radius of 187.48 feet, and being subtended by a chord
 bearing and distance of South 05 degrees 52 minutes 48 seconds West, 121.84 feet to a U.S. Fish & Wildlife Service
 concrete monument found;
 South 21 degrees 17 minutes 32 seconds West, 213.74 feet;
 South 21 degrees 36 minutes 17 seconds West, 123.58 feet;
 Along a curve to the left 123.64 feet, having a radius of 371.45 feet, and being subtended by a chord
 bearing and distance of South 20 degrees 30 minutes 51 seconds West, 123.07 feet;
 Along a curve to the right 82.60 feet, having a radius of 998.29 feet, and being subtended by a chord
 bearing and distance of South 15 degrees 21 minutes 18 seconds West, 82.57 feet;
 South 13 degrees 20 minutes 47 seconds West, 165.88 feet;
 Along a curve to the right 187.65 feet, having a radius of 642.06 feet, and being subtended by a chord
 bearing and distance of South 18 degrees 52 minutes 40 seconds West, 186.98 feet to a U.S. Fish & Wildlife Service
 concrete monument found;
 Along a curve to the right 262.39 feet, having a radius of 1,051.65 feet, and being subtended by a chord
 bearing and distance of South 35 degrees 50 minutes 49 seconds West, 261.71 feet;
 South 46 degrees 42 minutes 36 seconds West, 188.38 feet;
 South 50 degrees 27 minutes 12 seconds West, 223.01 feet;
 Along a curve to the left 172.37 feet, having a radius of 409.45 feet, and being subtended by a chord
 bearing and distance of South 48 degrees 47 minutes 28 seconds West, 171.10 feet;
 Along a curve to the right 157.33 feet, having a radius of 148.86 feet, and being subtended by a chord
 bearing and distance of South 59 degrees 23 minutes 37 seconds West, 150.11 feet;
 South 84 degrees 44 minutes 45 seconds West, 232.91 feet;
 South 87 degrees 32 minutes 53 seconds West, 92.21 feet to a Mag Hub Set at a common corner of MEC
 area MRS-11; runs thence with MRS-11 as follows:
 North 52 degrees 23 minutes 04 seconds West, 327.50 feet to a Mag Hub Set;
 North 74 degrees 07 minutes 34 seconds West, 114.98 feet to a Mag Hub Set;
 South 87 degrees 13 minutes 13 seconds West, 131.68 feet to a Mag Hub Set;
 North 76 degrees 52 minutes 48 seconds West, 95.51 feet to a Mag Hub Set;
 North 89 degrees 46 minutes 04 seconds West, 110.85 feet to a Mag Hub Set;
 North 84 degrees 12 minutes 50 seconds West, 86.33 feet to a Mag Hub Set;
 South 84 degrees 35 minutes 21 seconds West, 208.80 feet to a Mag Hub Set;
 South 78 degrees 36 minutes 11 seconds West, 97.32 feet to a Mag Hub Set;
 South 84 degrees 27 minutes 45 seconds West, 223.42 feet to a Mag Hub Set;
 North 88 degrees 53 minutes 14 seconds West, 181.06 feet to a Mag Hub Set;
 South 60 degrees 19 minutes 15 seconds West, 111.18 feet to a Mag Hub Set;
 South 78 degrees 05 minutes 09 seconds West, 139.35 feet to a Mag Hub Set;
 South 38 degrees 26 minutes 24 seconds West, 89.54 feet to a Mag Hub Set;
 South 54 degrees 16 minutes 42 seconds West, 288.21 feet to a Mag Hub Set;
 South 55 degrees 46 minutes 50 seconds West, 151.00 feet to a Mag Hub Set;
 South 34 degrees 00 minutes 34 seconds West, 77.83 feet to a Mag Hub Set;
 North 02 degrees 14 minutes 54 seconds West, 1,369.28 feet to a Mag Hub Set;
 South 86 degrees 45 minutes 18 seconds East, 43.79 feet;
 South 68 degrees 27 minutes 30 seconds East, 201.82 feet to a Mag Hub Set;

Along a curve to the left 117.38 feet, having a radius of 170.30 feet, and being subtended by a chord bearing and distance of South 88 degrees 12 minutes 14 seconds East, 115.07 feet, to a Mag Hub Set;

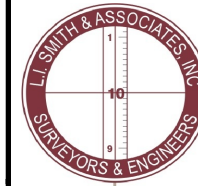
- North 56 degrees 03 minutes 22 seconds East, 534.46 feet;
- North 63 degrees 48 minutes 08 seconds East, 28.52 feet;
- North 85 degrees 51 minutes 23 seconds East, 33.47 feet to a Mag Hub Set;
- North 15 degrees 51 minutes 14 seconds East, 51.30 feet;
- North 18 degrees 08 minutes 56 seconds West, 48.17 feet;
- North 41 degrees 26 minutes 39 seconds West, 170.66 feet;
- North 51 degrees 56 minutes 12 seconds West, 154.37 feet;
- North 79 degrees 41 minutes 46 seconds West, 58.55 feet to a Mag Hub Set at the south corner of MEC area MRS-2; runs thence with MRS-2 as follows:

- North 00 degrees 00 minutes 09 seconds East, 75.26 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 200.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 00 seconds East, 400.00 feet to a Mag Hub Set;
- North 90 degrees 00 minutes 00 seconds East, 100.00 feet to a Mag Hub Set;
- North 00 degrees 00 minutes 02 seconds West, 355.78 feet to the Point of Beginning, and containing 232.00 Acres, more or less. Bearings are based upon the Alabama State Plane Coordinate System, East Zone, NAD 83.

N



USFWS MOUNTAIN LONGLEAF NWR



L.I. Smith & Associates, Inc.
Surveyors and Engineers

MRS-5 GRID POINTS SET TRACT 5-A COMPLETE

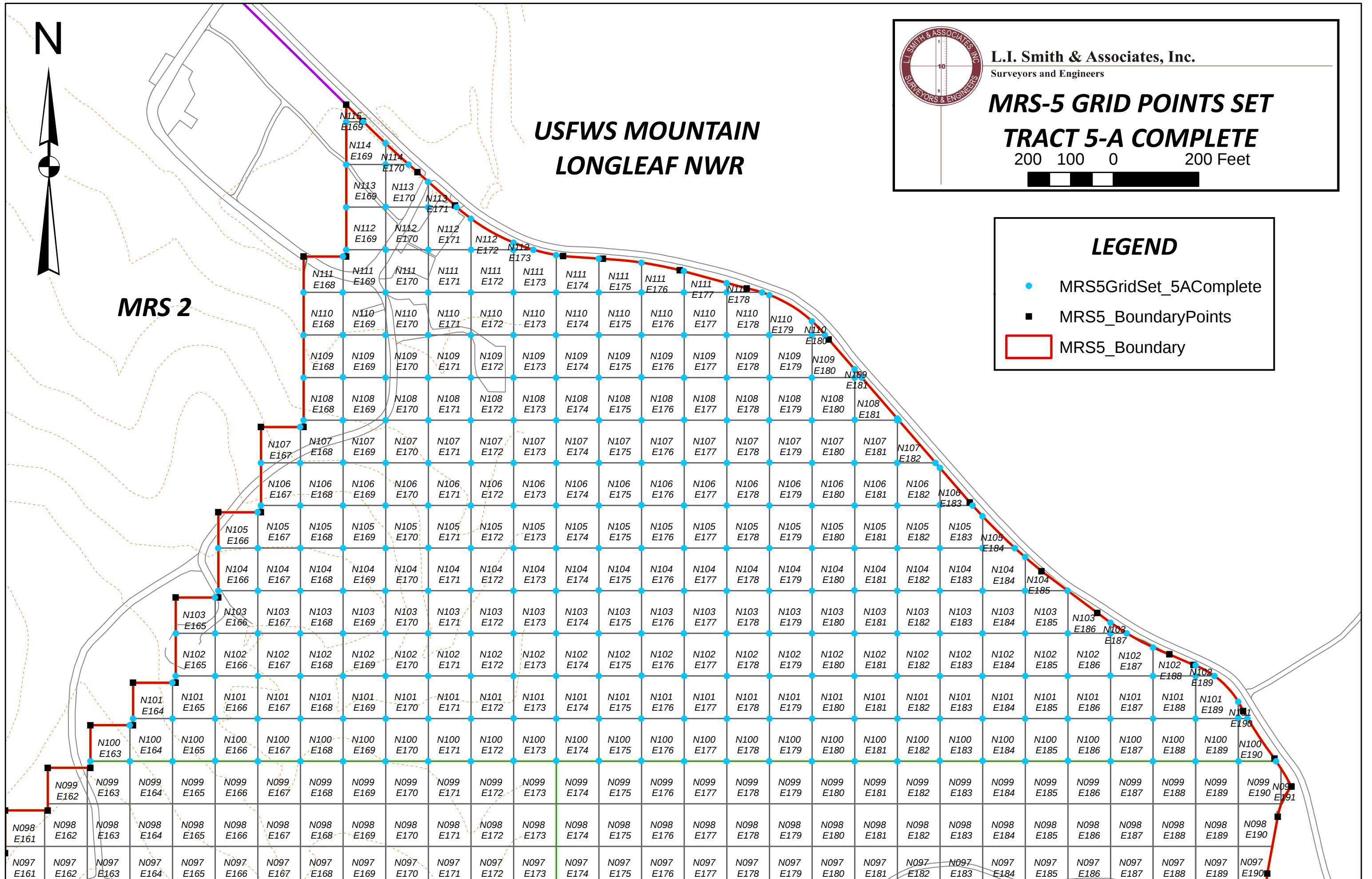
200 100 0 200 Feet



MRS 2

LEGEND

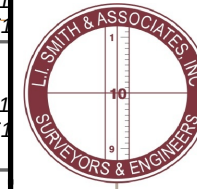
- MRS5GridSet_5AComplete
- MRS5_BoundaryPoints
- MRS5_Boundary





LEGEND

- MRS5GridSet_5B_Complete
- MRS5GridSet_5C_Complete
- MRS5GridSet_5AComplete
- MRS5_BoundaryPoints
- MRS5_Boundary



L.I. Smith & Associates, Inc.
Surveyors and Engineers

MRS-5 GRID POINTS SET

TRACT 5-B COMPLETE

150 75 0 150 Feet



MRS 2

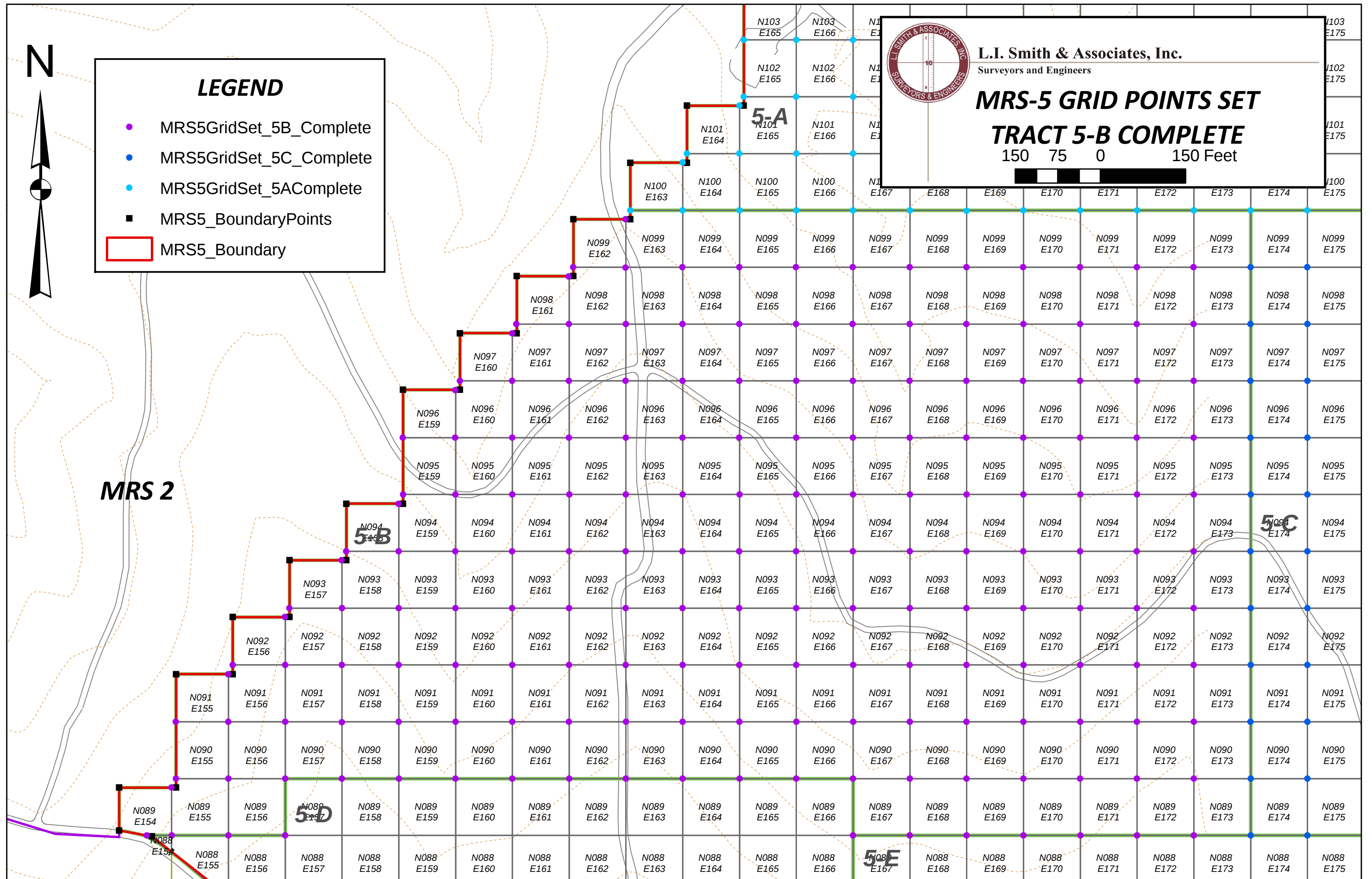
5-B

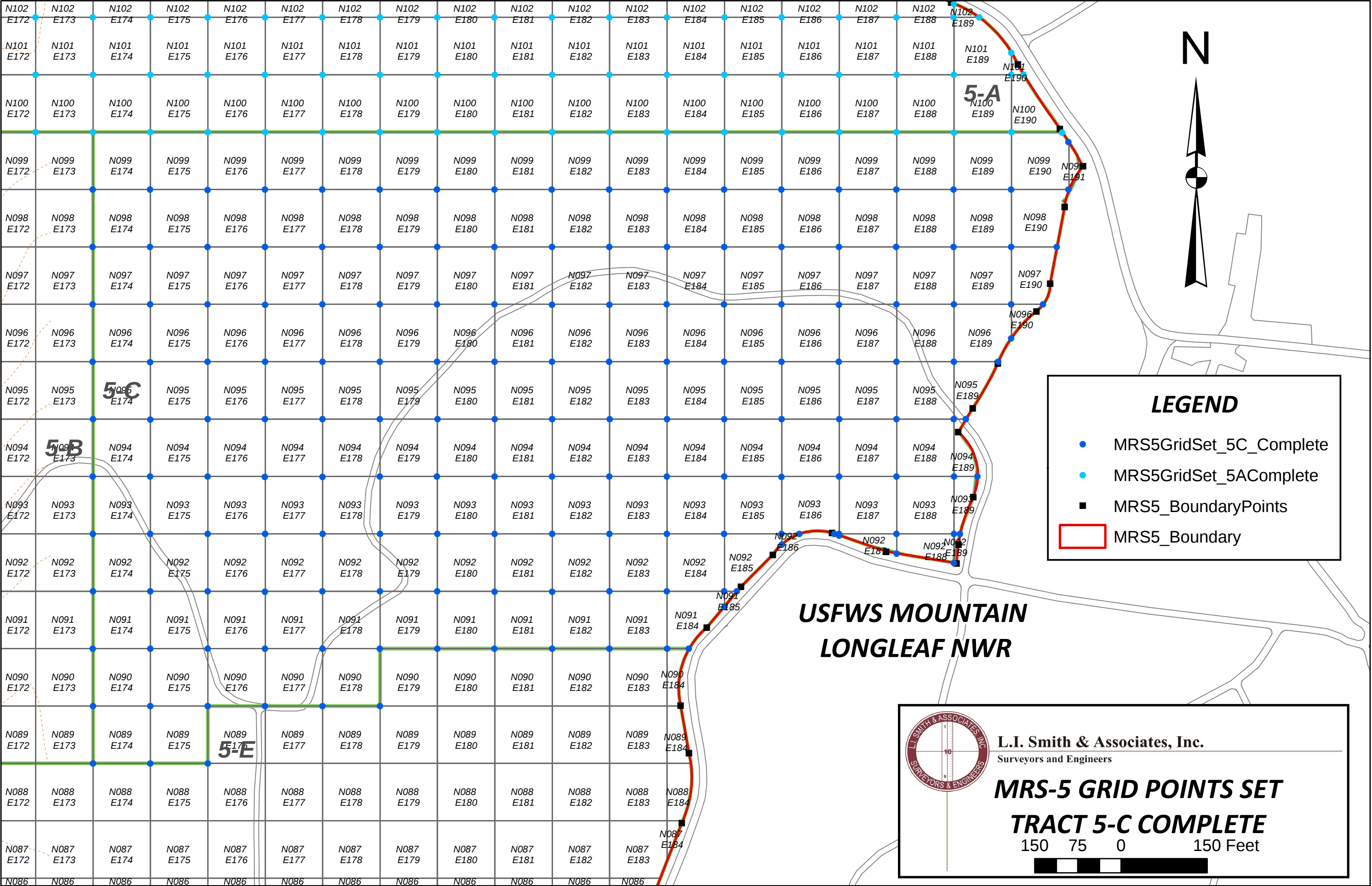
5-A

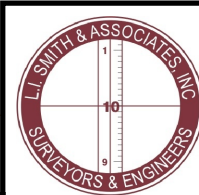
5-C

5-D

5-E







L.I. Smith & Associates, Inc.
Surveyors and Engineers

MRS-5 GRID POINTS SET TRACT 5-D COMPLETE

308 Grid Points Set

N

150 75 0 150 Feet

MRS 11

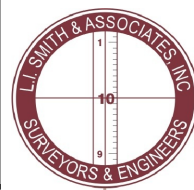
MRS 2

MRS 11

USFWS MOUNTAIN
LONGLEAF NWR

LEGEND

- MRS5GridSet_5D_Complete
- MRS5GridSet_5B_Complete
- MRS5GridSet_5C_Complete
- MRS5GridSet_5AComplete
- MRS5_BoundaryPoints
- MRS5_Boundary



L.I. Smith & Associates, Inc.
Surveyors and Engineers

MRS-5 GRID POINTS SET TRACT 5-E COMPLETE

258 Grid Points Set

