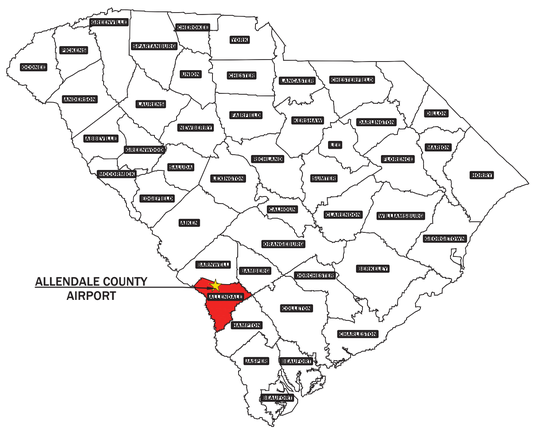
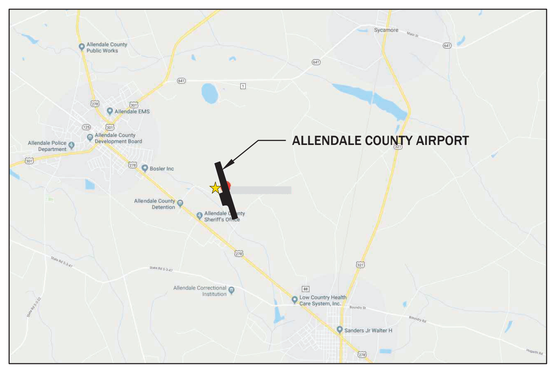
AIRPORT LAYOUT PLAN UPDATE
FOR THE
ALLENDALE COUNTY AIRPORT
FAIRFAX, SOUTH CAROLINA



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION	REVISION #	REVISION DATE
1.	TITLE SHEET		
2.	AIRPORT LAYOUT PLAN		
3.	AIRPORT LAYOUT PLAN DATA SHEET		
4.	TERMINAL AREA PLAN		
5.	AIRSPACE PLAN		
6.	INNER PORTION OF RUNWAY 17 APPROACH SURFACE		
7.	INNER PORTION OF RUNWAY 35 APPROACH SURFACE		
8.	RUNWAY 17 DEPARTURE SURFACE		
9.	RUNWAY 35 DEPARTURE SURFACE		
10.	LAND USE PLAN		
11.	EXHIBIT "A" PROPERTY MAP		

SOUTH CAROLINA AERONAUTICS COMMISSION APPROVAL

APPROVED BY:

Gary W. Siegfried, PE, Program Manager — Date: 02/03/2021

AIRPORT SPONSOR APPROVAL

APPROVED BY:

Mr. J. William Goodson, IV, County Administrator — Date: 2/11/21

HOLT CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

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COLUMBIA, SC 29205

TITLE SHEET

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT
FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

EXISTING FEATURE		
NO.	FEATURE	TOP ELEV.
1	EXISTING HANGAR	174.1'
2	EXISTING TERMINAL BUILDING	178.0'
3	EXISTING ROTATING BEACON	N/A
4	EXISTING FUEL FARM	165.3'
5	EXISTING VAULT	170.3'
6	EXISTING WIND SOCK	N/A
7	EXISTING AWOS	33'

PROPOSED FACILITIES		
NO.	STRUCTURE	TOP ELEV.
A	FUTURE 10 UNIT T-HANGAR	TBD
B	FUTURE 10 UNIT T-HANGAR	TBD
C	FUTURE 10 UNIT T-HANGAR	TBD
D	FUTURE 60'X60' BOX HANGAR	TBD
E	FUTURE 60'X60' BOX HANGAR	TBD
F	FUTURE 80'X80' MAINTENANCE HANGAR	TBD
G	PROPOSED SUPPLEMENTAL WIND SOCK	TBD

AIRPORT DATA		
	EXISTING	ULTIMATE
AIRPORT REFERENCE CODE	B-I	B-II
MEAN MAX. TEMP. HOTTEST MONTH	90	SAME
AIRPORT ELEVATION	161.8'	SAME
NAVAGATIONAL AIDS	VOR	SAME
AIRPORT REFERENCE POINT COORDINATES (NAD 83)	Lat 32° 59' 42.402" N Long 81° 16'12.852" W	Lat 32° 59' 44.88" N Long 81° 16'13.80" W
CRITICAL AIRCRAFT	Hawker 400	King Air 90
NPIAS SERVICE LEVEL	GA LOCAL	SAME
SOUTH CAROLINA SERVICE ROLE	SC III - Business/Recreation	SAME
MISCELLANEOUS FACILITIES	AWOS, WIND CONE, ROTATING BEACON	

MODIFICATION OF DESIGN STANDARDS

NONE

NOTES:

1. ALL COORDINATES AND ELEVATIONS SHOWN ARE BASED OFF OF NAD83 (HORIZONTAL) AND NAVD88 (VERTICAL) DATUMS.
2. THE RUNWAY DESIGNATIONS ARE NOT EXPECTED TO CHANGE DURING THIS PLANNING PERIOD.
3. THE BUILDING RESTRICTION LINE (BRL) IS LOCATED 390' FROM THE RUNWAY CENTERLINE. BRL HEIGHT IS 20'.
4. SEE INNER APPROACH DRAWINGS FOR ROAD CLEARANCE TABLES.
5. SEE INNER APPROACH AND DEPARTURE DRAWINGS FOR SURFACE PENETRATIONS.
6. AIRPORT MEETS ALL EXISTING AND FUTURE DESIGN CRITERIA

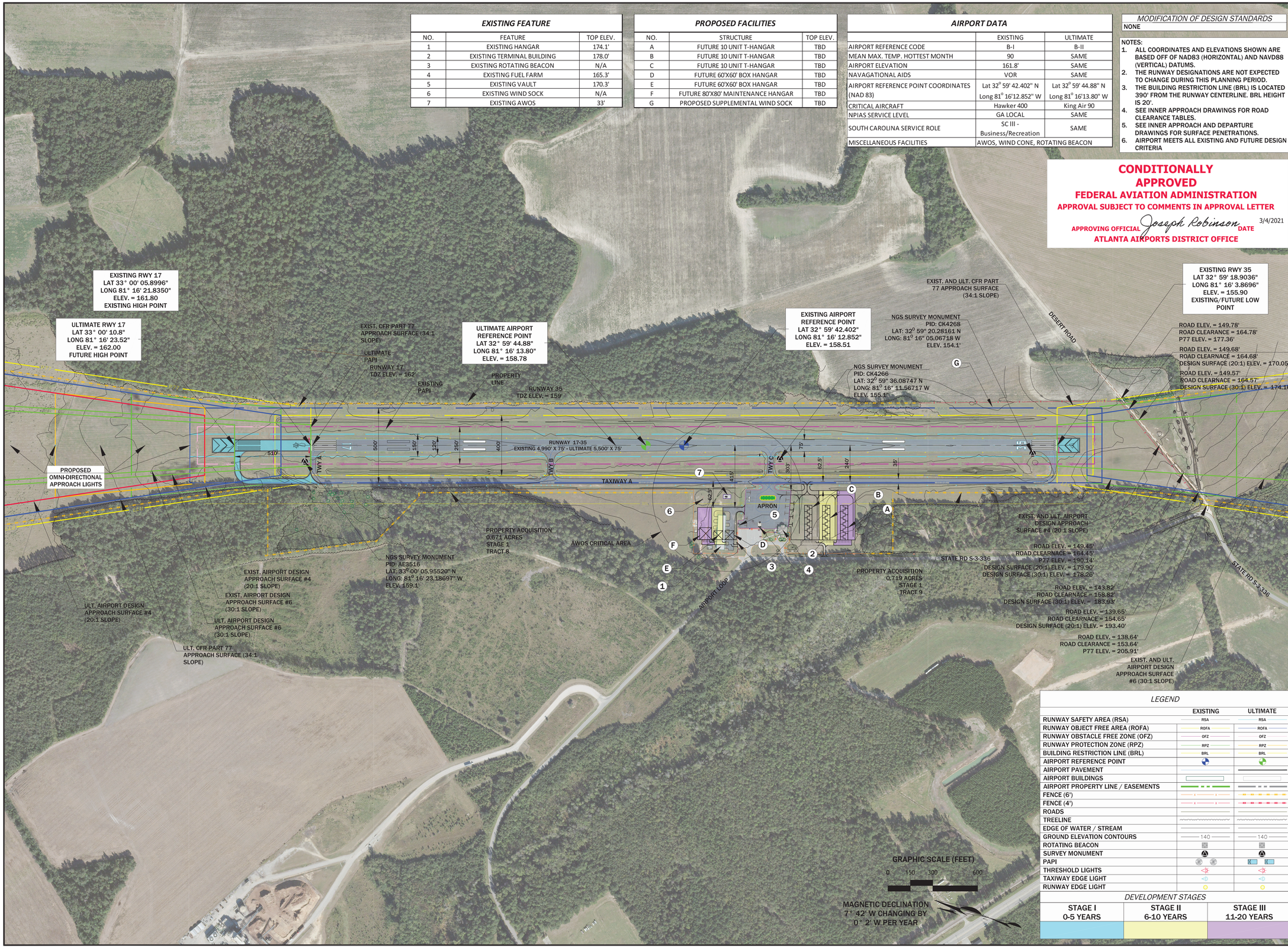
CONDITIONALLY APPROVED

FEDERAL AVIATION ADMINISTRATION

APPROVAL SUBJECT TO COMMENTS IN APPROVAL LETTER

APPROVING OFFICIAL *Joseph Robinson* DATE 3/4/2021

ATLANTA AIRPORTS DISTRICT OFFICE



LEGEND

	EXISTING	ULTIMATE
RUNWAY SAFETY AREA (RSA)	RSA	RSA
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	ROFA
RUNWAY OBSTACLE FREE ZONE (OFZ)	OFZ	OFZ
RUNWAY PROTECTION ZONE (RPZ)	RPZ	RPZ
BUILDING RESTRICTION LINE (BRL)	BRL	BRL
AIRPORT REFERENCE POINT		
AIRPORT PAVEMENT		
AIRPORT BUILDINGS		
AIRPORT PROPERTY LINE / EASEMENTS		
FENCE (6')		
FENCE (4')		
ROADS		
TREELINE		
EDGE OF WATER / STREAM		
GROUND ELEVATION CONTOURS	140	140
ROTATING BEACON		
SURVEY MONUMENT		
PAPI		
THRESHOLD LIGHTS		
TAXIWAY EDGE LIGHT		
RUNWAY EDGE LIGHT		

DEVELOPMENT STAGES

STAGE I 0-5 YEARS	STAGE II 6-10 YEARS	STAGE III 11-20 YEARS

HOLT CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

AIRPORT LAYOUT PLAN

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

RUNWAY DATA

		EXISTING	ULTIMATE
RUNWAY DESIGN CODE (RDC)	RW 17	B-I	B-II
	RW 35	B-I	B-II
APPROACH REFERENCE CODE (APRC)	RW 17	B/I/5000	B/II/5000
	RW 35	B/I/5000	B/II/5000
DEPARTURE REFERENCE CODE (DPRC)	RW 17	B-I	B-II
	RW 35	B-I	B-II
PAVEMENT MATERIAL TYPE	RW 17	Asphalt	SAME
	RW 35	Asphalt	SAME
PAVEMENT STRENGTH BY WHEEL LOADING	RW 17	26,000 SW/34,000 DW	SAME
	RW 35	26,000 SW/34,000 DW	SAME
PAVEMENT STRENGTH BY PCN	RW 17	N/A	SAME
	RW 35	N/A	SAME
EFFECTIVE RUNWAY GRADIENT	RW 17	0.12	SAME
	RW 35	0.12	SAME
SURFACE TREATMENT	RW 17	NONE	NONE
	RW 35	NONE	NONE
% WIND COVERAGE	RW 17	SEE WIND ROSE TABLES	SAME
	RW 35	SEE WIND ROSE TABLES	SAME
RUNWAY LENGTH	RW 17	4,990'	5,500'
	RW 35	4,990'	5,500'
RUNWAY WIDTH	RW 17	75'	SAME
	RW 35	75'	SAME
RUNWAY END COORDINATES (NAD 83)	RW 17	Lat 33° 00' 05.8996" N Long 81° 16' 21.835" W	Lat 33° 00' 10.80" N Long 81° 16' 23.52" W
	RW 35	Lat 32° 59' 18.9036" N Long 81° 16' 3.8696" W	SAME
RUNWAY END ELEVATIONS	RW 17	161.8'	162.0'
	RW 35	155.9'	SAME
RUNWAY ORIENTATION	RW 17	162°	SAME
	RW 35	342°	SAME
MARKINGS	RW 17	NPI	SAME
	RW 35	NPI	SAME
RUNWAY LIGHTING	RW 17	MIRL	SAME
	RW 35	MIRL	SAME
CFR PART 77 APPROACH CATEGORY	RW 17	34:1	SAME
	RW 35	34:1	SAME
APPROACH TYPE	RW 17	AIRPORT DESIGN APPROACH SURFACE #4 (20:1) & #6 (30:1)	SAME
	RW 35	AIRPORT DESIGN APPROACH SURFACE #4 (20:1) & #6 (30:1)	SAME
APPROACH VISIBILITY MINIMUMS	RW 17	1-Mile	SAME
	RW 35	1-Mile	SAME
TYPE OF AERONAUTICAL SURVEY REQUIRED FOR APPROACH	RW 17	VGS	SAME
	RW 35	VGS	SAME
TERMINAL INSTRUMENT PROCEDURES	RW 17	N/A	SAME
	RW 35	N/A	SAME
INSTRUMENT APPROACH NAVAIDS	RW 17	RNAV (GPS)/VOR	SAME
	RW 35	RNAV (GPS)/VOR	SAME
VISUAL APPROACH NAVAIDS	RW 17	PAPI	PAPI/ODALS
	RW 35	PAPI	SAME
DEPARTURE SURFACE	RW 17	YES (40:1)	SAME
	RW 35	YES (40:1)	SAME
TOUCHDOWN ZONE ELEVATIONS	RW 17	162'	SAME
	RW 35	159'	SAME

TAXIWAY AND TAXILANE DATA

	EXISTING	ULTIMATE
TAXIWAY WIDTH	35'	35'
TAXIWAY EDGE SAFETY MARGIN	7.5'	7.5'
TAXIWAY SHOULDER WIDTH	15'	15'
TAXIWAY SAFETY AREA (TSA)	49'	79'
TAXIWAY OBJECT FREE AREA (OFA)	89'	131'
TAXILANE OBJECT FREE AREA (OFA)	79'	115'
TAXIWAY CENTERLINE TO PARALLEL TAXIWAY/TAXILANE CENTERLINE	70'	105'
TAXIWAY CENTERLINE TO FIXED OR MOVABLE OBJECT	44.5	65.5'
TAXILANE CENTERLINE TO PARALLEL TAXILANE CENTERLINE	64'	97'
TAXILANE CENTERLINE TO FIXED OR MOVABLE OBJECT	39.5'	57.5'
TAXIWAY AND TAXILANE LIGHTING	MITL	SAME

NOTES:
1. ALL COORDINATES AND ELEVATIONS SHOWN ARE BASED OFF OF NAD83 (HORIZONTAL) AND NAVD88 (VERTICAL) DATUMS.
2. THE RUNWAY DESIGNATIONS ARE NOT EXPECTED TO CHANGE DURING THIS PLANNING PERIOD.
3. THE BUILDING RESTRICTION LINE (BRL) IS LOCATED 390' FROM THE RUNWAY CENTERLINE. BRL HEIGHT IS 20'.
4. SEE INNER APPROACH DRAWINGS FOR ROAD CLEARANCE TABLES.
5. SEE INNER APPROACH AND DEPARTURE DRAWINGS FOR SURFACE PENETRATIONS.
6. AIRPORT MEETS ALL EXISTING AND FUTURE DESIGN CRITERIA

RUNWAY PROTECTION ZONE DIMENSIONS (RPZ)

RUNWAY END	EXISTING	ULTIMATE
RW 17	500' IW x 1000' L x 700' OW	SAME
RW 35	500' IW x 1000' L x 700' OW	SAME

RUNWAY SAFETY AREA DIMENSIONS (RSA)

RUNWAY	EXISTING	ULTIMATE
RW 17	120'W x 240' Beyond RW End	150'W x 300' Beyond RW End
RW 35	120'W x 240' Beyond RW End	150'W x 300' Beyond RW End

RUNWAY OBJECT FREE AREA DIMENSIONS (ROFA)

RUNWAY END	EXISTING	ULTIMATE
17/35	400'W x 240' Length Beyond RW End	500'W x 300' Length Beyond RW End
RW 35	400'W x 240' Length Beyond RW End	500'W x 300' Length Beyond RW End

RUNWAY OBSTACLE FREE ZONE DIMENSIONS (ROFZ)

RUNWAY END	EXISTING	ULTIMATE
RW 17	200'W x 250' Length Beyond RW End	SAME
RW 35	200'W x 250' Length Beyond RW End	SAME

THRESHOLD SITING SURFACE (TSS)

RUNWAY END	EXISTING	ULTIMATE
RW 17	400' IW x 1500' L x 1000' OW	SAME
RW 35	400' IW x 1500' L x 1000' OW	SAME

FAR PART 77 APPROACH DIMENSIONS

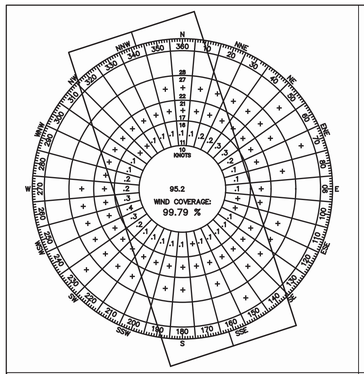
RUNWAY END	EXISTING	ULTIMATE
RW 17	500' x 3500' x 10,000'	SAME
RW 35	500' x 3500' x 10,000'	SAME

RUNWAY DESIGN APPROACH SURFACE

RUNWAY END	EXISTING	ULTIMATE
RW 17	400' x 3400' x 10,000'	SAME
RW 35	400' x 3400' x 10,000'	SAME

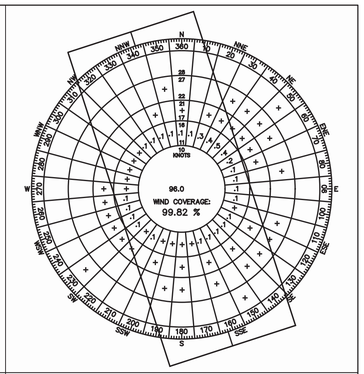
PROPERTY ACQUISITION

TRACT NO.	INTEREST	DEVELOPMENT STAGE	ACREAGE
6	FEE SIMPLE	STAGE 1	0.671
7	FEE SIMPLE	STAGE 1	0.719



WIND ROSE DATA

	MPH	KNOTS	RUNWAY END COVERAGE RUNWAY 17/35
ALL WEATHER	12	10.5	97.08%
	15	13	98.49%
	18	16	99.76%



WIND ROSE DATA

	MPH	KNOTS	RUNWAY END COVERAGE RUNWAY 17/35
IFR	12	10.5	97.83%
	15	13	98.96%
	18	16	99.82%

SOURCE: "720602 BARNWELL REGIONAL AIRPORT ANNUAL PERIOD RECORD 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019"
REFERENCE: Appendix 1 of AC 150/5300-13, Airport Design, including Changes 1 through 17.

DECLARED DISTANCES

RUNWAY END	LANDING DISTANCE AVAILABLE (LDA)		ACCERLERATED STOP DISTANCE AVAILABLE (ASDA)		TAKEOFF DISTANCE AVAILABLE (TODA)		TAKEOFF RUN AVAILABLE (TORA)	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE	EXISTING	ULTIMATE
RW 17	4,990'	5,500'	4,990'	5,500'	4,990'	5,500'	4,990'	5,500'
RW 35	4,990'	5,500'	4,990'	5,500'	4,990'	5,500'	4,990'	5,500'

HOLI CONSULTING COMPANY, LLC.
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COLUMBIA, SC 29205

AIRPORT LAYOUT PLAN DATA SHEET

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

EXISTING FEATURE		
NO.	FEATURE	TOP ELEV.
1	EXISTING HANGAR	174.1'
2	EXISTING TERMINAL BUILDING	178.0'
3	EXISTING ROTATING BEACON	N/A
4	EXISTING FUEL FARM	165.3'
5	EXISTING VAULT	170.3'
6	EXISTING WIND SOCK	N/A
7	EXISTING AWOS	33'

PROPOSED FACILITIES		
NO.	STRUCTURE	TOP ELEV.
A	FUTURE 10 UNIT T-HANGAR	TBD
B	FUTURE 10 UNIT T-HANGAR	TBD
C	FUTURE 10 UNIT T-HANGAR	TBD
D	FUTURE 60'X60' BOX HANGAR	TBD
E	FUTURE 60'X60' BOX HANGAR	TBD
F	FUTURE 80'X80' MAINTENANCE HANGAR	TBD

MAGNETIC DECLINATION
7° 42' W CHANGING BY
0° 2' W PER YEAR

GRAPHIC SCALE (FEET)
0 50 100 200

LEGEND

	EXISTING	ULTIMATE
RUNWAY SAFETY AREA (RSA)	RSA	RSA
RUNWAY OBJECT FREE AREA (ROFA)	ROFA	ROFA
RUNWAY OBSTACLE FREE ZONE (OFZ)	OFZ	OFZ
RUNWAY PROTECTION ZONE (RPZ)	RPZ	RPZ
BUILDING RESTRICTION LINE (BRL)	BRL	BRL
AIRPORT REFERENCE POINT		
AIRPORT PAVEMENT		
AIRPORT BUILDINGS		
AIRPORT PROPERTY LINE / EASEMENTS		
FENCE (6')		
FENCE (4')		
ROADS		
TREELINE		
EDGE OF WATER / STREAM		
GROUND ELEVATION CONTOURS	140	140
ROTATING BEACON		
SURVEY MONUMENT		
PAPI		
THRESHOLD LIGHTS		
TAXIWAY EDGE LIGHT		
RUNWAY EDGE LIGHT		

DEVELOPMENT STAGES

STAGE I 0-5 YEARS	STAGE II 6-10 YEARS	STAGE III 11-20 YEARS

RUNWAY 17-35
TAXIWAY A
TAXIWAY B
TAXIWAY C
APRON
75'
240.35'
240.42'
240.45'
302.33'
240'
240.49'
57'
301.63'
35' TYP.
62.96'
160.55'
175.27'
329.97'
309.51'
242.49'
PROPERTY ACQUISITION
0.671 ACRES
STAGE 1
TRACT 6
PROPERTY ACQUISITION
0.719 ACRES
STAGE 1
TRACT 7
AWOS CRITICAL AREA
AIRPORT LOOP
STATE RD S-3-336

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2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

TERMINAL AREA PLAN

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

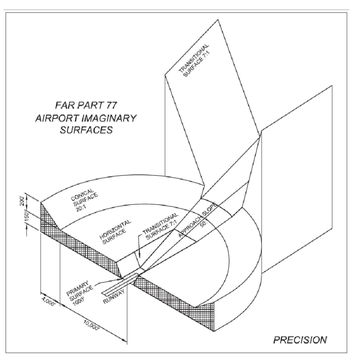
LEGEND	
A	APPROACH SURFACE (34:1 SLOPE)
B	APPROACH SURFACE (34:1 SLOPE)
C	PRIMARY SURFACE
D	TRANSITIONAL SURFACE (7:1 SLOPE)
E	HORIZONTAL SURFACE (150' ABOVE ESTABLISHED AIRPORT ELEVATION)
F	CONICAL SURFACE (20:1 SLOPE)

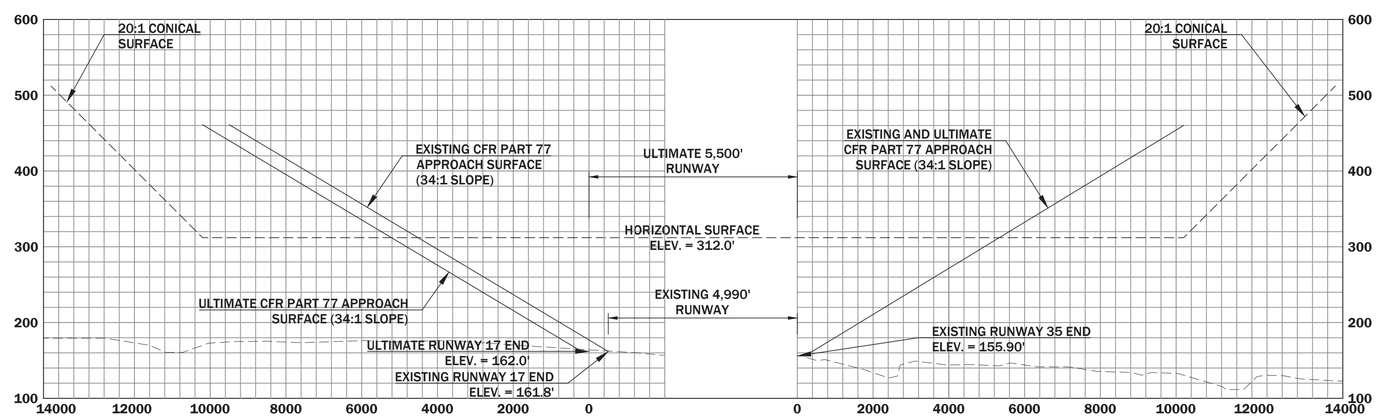
MAGNETIC DECLINATION
7° 42' W CHANGING BY
0° 2' W PER YEAR

GRAPHIC SCALE (FEET)
0 1000 2000 4000

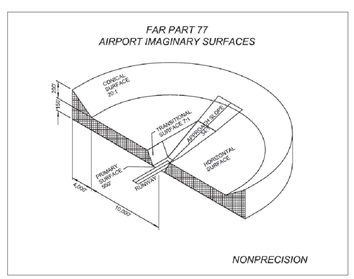
PENETRATION ELEV. = 349'
OBJECT ELEV. = 324
4,000' CONICAL SURFACE 20:1
10,000' HORIZONTAL SURFACE
OBJECT ELEV. = 186'
OBJECT ELEV. = 180'
OBJECT ELEV. = 309'
OBJECT ELEV. = 272'
OBJECT ELEV. = 225'
OBJECT ELEV. = 247'
OBJECT ELEV. = 290'
OBJECT ELEV. = 287'
OBJECT ELEV. = 281'
OBJECT ELEV. = 285'
OBJECT ELEV. = 284'
OBJECT ELEV. = 280'

NOTES:
1. SURVEY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATES 10-12-2018. GRID BASED ON SC SOUTH NAD 1983 COORDINATES SYSTEM VERTICAL DATUM BASED ON NAVD 1988. SUPPLEMENTED BY USGS 2017 US TOPO MAP.
2. DUE TO THE EXCESS NUMBER OF OBSTRUCTIONS, PENETRATION VALUES FOR INNER APPROACH SURFACES HAVE BEEN IDENTIFIED ON SHEETS 5 AND 6. FOR DEPARTURE SURFACE DRAWING OBSTRUCTION INFORMATION TABLES, REFER TO APPENDIX C OF THE AIRPORT LAYOUT PLAN FINAL DRAFT REPORT , JULY 2020.
3. NO LOCAL ZONING ORDINANCES OR RESTRICTIONS.





PROFILE VIEW RUNWAY 17/35 AIRSPACE



GRAPHIC SCALE (FEET)
0 500 2000 4000
HORIZONTAL
100
0
VERTICAL

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AIRSPACE PLAN

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

RUNWAY 17 EXISTING AIRPORT DESIGN APPROACH SURFACE #4 (20:1 SLOPE) OBSTRUCTION DATA TABLE

#	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
NO OBSTRUCTIONS					

RUNWAY 17 ULTIMATE AIRPORT DESIGN APPROACH SURFACE #4 (20:1 SLOPE) OBSTRUCTION DATA TABLE

#	TYPE	OBSTACLE	SURFACE	PENETRATION	DISPOSITION
NO OBSTRUCTIONS					

RUNWAY 17 EXISTING CFR P77 SURFACE (34:1 SLOPE) OBSTRUCTION DATA TABLE

#	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
13	TREE	264.695	263.09	1.605	REMOVAL
30	TREE	219.537	193.02	26.517	REMOVAL
31	TREE	219.47	193.66	25.81	REMOVAL
32	TREE	219.335	194.46	24.875	REMOVAL
33	TREE	221.765	195.06	26.705	REMOVAL
34	TREE	225.207	195.42	29.787	REMOVAL
35	TREE	227.165	199.5	27.665	REMOVAL
41	TREE	222.305	194.9	27.405	REMOVAL
42	TREE	239.99	193.56	46.43	REMOVAL
43	TREE	215.892	192.33	23.562	REMOVAL
44	TREE	215.892	191.47	24.422	REMOVAL
45	TREE	221.427	190.78	30.647	REMOVAL
46	TREE	234.985	187.84	47.145	REMOVAL
47	TREE	223.925	186.31	37.615	REMOVAL
48	TREE	210.627	185.07	25.557	REMOVAL
49	TREE	207.59	178.51	29.08	REMOVAL
50	TREE	220.145	183.65	36.495	REMOVAL
51	TREE	203.875	184.36	19.515	REMOVAL
52	TREE	226.152	187.03	39.122	REMOVAL
53	TREE	228.582	188.08	40.502	REMOVAL
54	TREE	220.145	188.74	31.405	REMOVAL
55	TREE	238.707	178.76	59.947	REMOVAL
56	TREE	239.585	179.37	60.215	REMOVAL
57	TREE	232.902	176.79	56.112	REMOVAL
58	TREE	236.682	179.95	56.732	REMOVAL
59	TREE	237.627	180.59	57.037	REMOVAL
60	TREE	240.395	181.38	59.015	REMOVAL
61	TREE	232.565	181.38	51.185	REMOVAL
62	TREE	240.26	182.51	57.75	REMOVAL
63	TREE	235.94	183.3	52.64	REMOVAL
64	TREE	242.015	184.4	57.615	REMOVAL
65	TREE	233.577	185.07	48.507	REMOVAL
66	TREE	243.702	185.35	58.352	REMOVAL
67	TREE	242.15	185.71	56.44	REMOVAL
68	TREE	238.032	186.21	51.822	REMOVAL
69	TREE	237.425	186.8	50.625	REMOVAL
70	TREE	237.762	186.46	51.302	REMOVAL
71	TREE	237.087	186.91	50.177	REMOVAL
72	TREE	236.547	187.53	49.017	REMOVAL
73	TREE	233.24	188.77	44.47	REMOVAL
74	TREE	232.835	189.31	43.525	REMOVAL
75	TREE	234.522	189.76	44.762	REMOVAL
76	TREE	226.49	190.75	35.74	REMOVAL
77	TREE	220.28	191.36	28.92	REMOVAL
78	TREE	232.902	192.36	40.542	REMOVAL
79	TREE	234.117	192.83	41.287	REMOVAL
80	TREE	229.932	193.74	36.192	REMOVAL
81	TREE	232.092	194.28	37.812	REMOVAL
82	TREE	227.502	195.46	32.042	REMOVAL
83	TREE	224.87	196.15	28.72	REMOVAL
84	TREE	230.337	196.89	33.447	REMOVAL
87	TREE	232.835	199.41	33.425	REMOVAL
89	TREE	245.12	201.56	43.56	REMOVAL
92	TREE	247.145	203.56	43.585	REMOVAL
93	TREE	242.487	205.53	36.957	REMOVAL
95	TREE	250.115	203.21	46.905	REMOVAL
96	TREE	250.452	202.88	47.572	REMOVAL
97	TREE	247.145	202.18	44.965	REMOVAL
98	TREE	231.89	201.43	30.46	REMOVAL
99	TREE	232.092	201	31.092	REMOVAL
100	TREE	232.902	200.58	32.322	REMOVAL
101	TREE	231.012	200.48	30.532	REMOVAL
102	TREE	231.62	200.21	31.41	REMOVAL
103	TREE	228.92	198.91	30.01	REMOVAL
104	TREE	244.985	198.02	46.965	REMOVAL

RUNWAY 17 EXISTING AIRPORT DESIGN APPROACH SURFACE #6 (30:1 SLOPE) OBSTRUCTION DATA TABLE

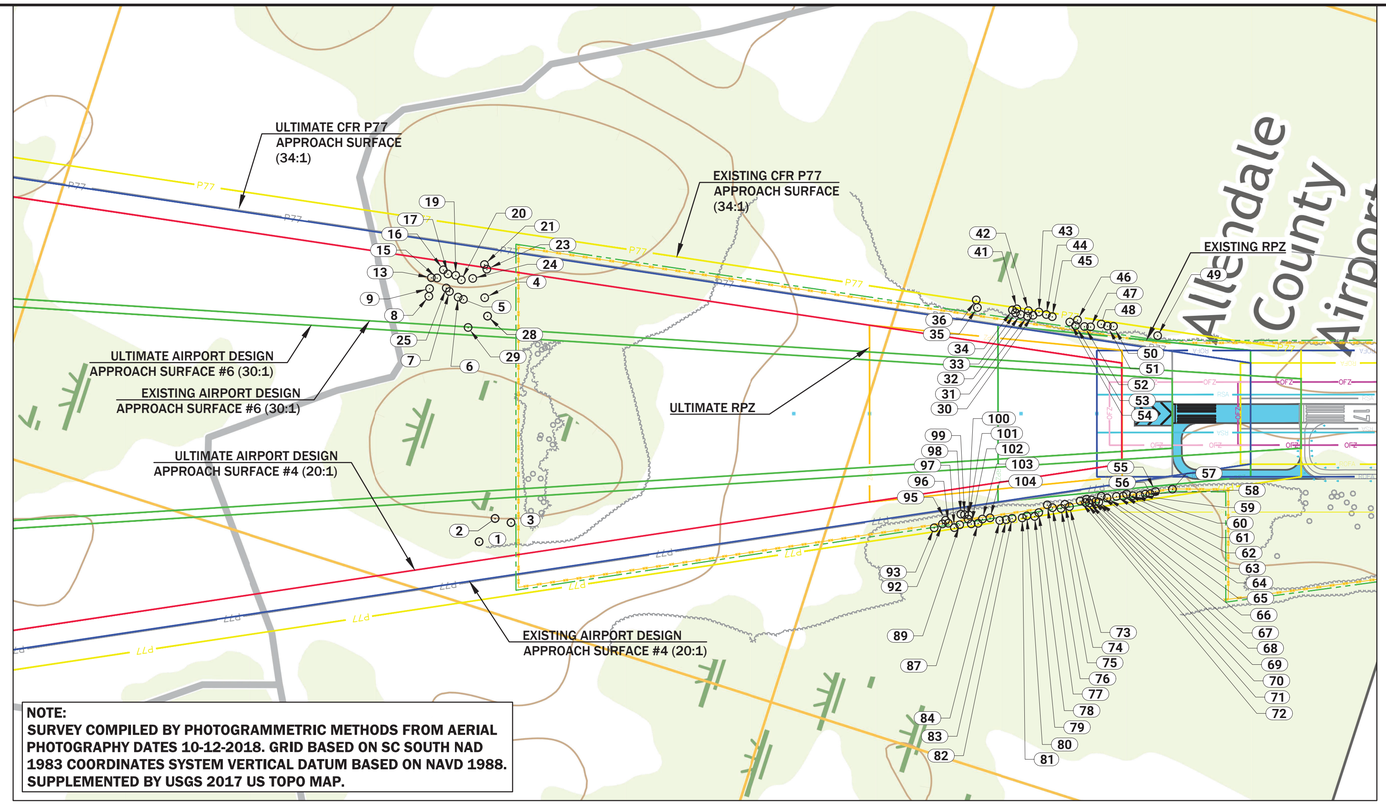
#	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
NO OBSTRUCTIONS					

RUNWAY 17 ULTIMATE AIRPORT DESIGN APPROACH SURFACE #6 (30:1 SLOPE) OBSTRUCTION DATA TABLE

	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
NO OBSTRUCTIONS					

RUNWAY 17 ULTIMATE CFR P77 SURFACE (34:1 SLOPE) OBSTRUCTION DATA TABLE

#	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
1	TREE	254.805	242.52	12.285	REMOVAL
2	TREE	254.289	240.66	13.629	REMOVAL
3	TREE	249.271	238.8	10.471	REMOVAL
4	TREE	254.165	241.87	12.295	REMOVAL
5	TREE	255.245	244.34	10.905	REMOVAL
6	TREE	254.165	244.96	9.205	REMOVAL
7	TREE	255.177	245.97	9.207	REMOVAL
8	TREE	260.375	248.37	12.005	REMOVAL
9	TREE	257.877	248.28	9.597	REMOVAL
13	TREE	264.695	248.08	16.615	REMOVAL
15	TREE	259.025	247.42	11.605	REMOVAL
16	TREE	257.202	246.68	10.522	REMOVAL
17	TREE	255.852	246.15	9.702	REMOVAL
19	TREE	255.177	245.24	9.937	REMOVAL
20	TREE	254.562	244.58	9.982	REMOVAL
21	TREE	251.802	241.89	9.912	REMOVAL
23	TREE	251.195	241.64	9.555	REMOVAL
24	TREE	254.637	243.26	11.377	REMOVAL
25	TREE	255.785	246.34	9.445	REMOVAL
28	TREE	251.195	241.53	9.665	REMOVAL
29	TREE	255.809	243.8	12.009	REMOVAL

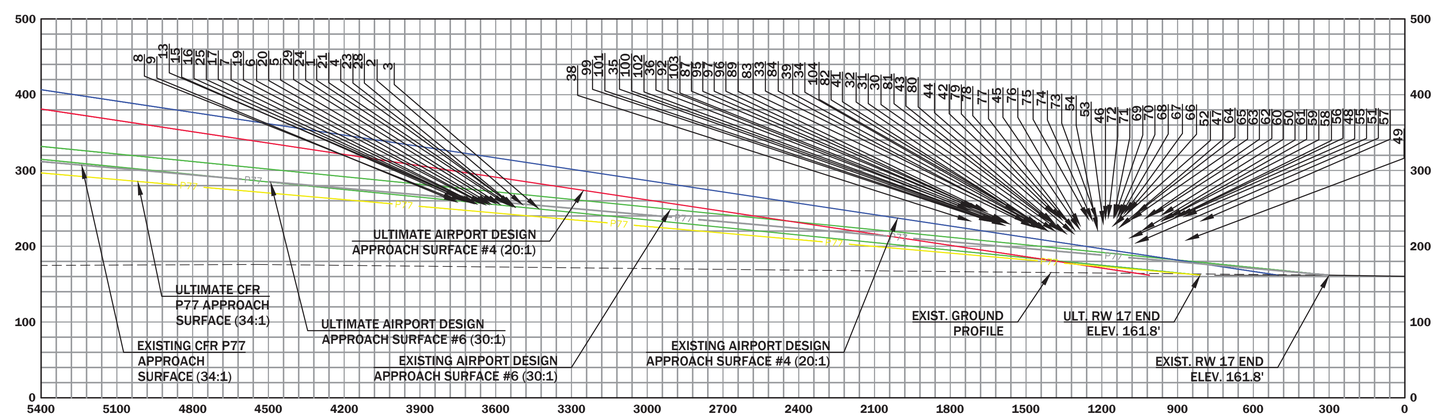


NOTE:
SURVEY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATES 10-12-2018. GRID BASED ON SC SOUTH NAD 1983 COORDINATES SYSTEM VERTICAL DATUM BASED ON NAVD 1988. SUPPLEMENTED BY USGS 2017 US TOPO MAP.

PLAN VIEW RUNWAY 17 APPROACH SURFACES

MAGNETIC DECLINATION
7° 42' W CHANGING BY
0° 2' W PER YEAR

GRAPHIC SCALE (FEET)
0 150 300 600
HORIZONTAL
100
0



PROFILE VIEW RUNWAY 17 APPROACH SURFACES

NOTE:
FOR DEPARTURE SURFACE DRAWING OBSTRUCTION INFORMATION TABLES, REFER TO APPENDIX C OF THE AIRPORT LAYOUT PLAN FINAL DRAFT REPORT , JULY 2020.

HOLI CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

INNER PORTION OF RUNWAY 17 APPROACH SURFACE

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

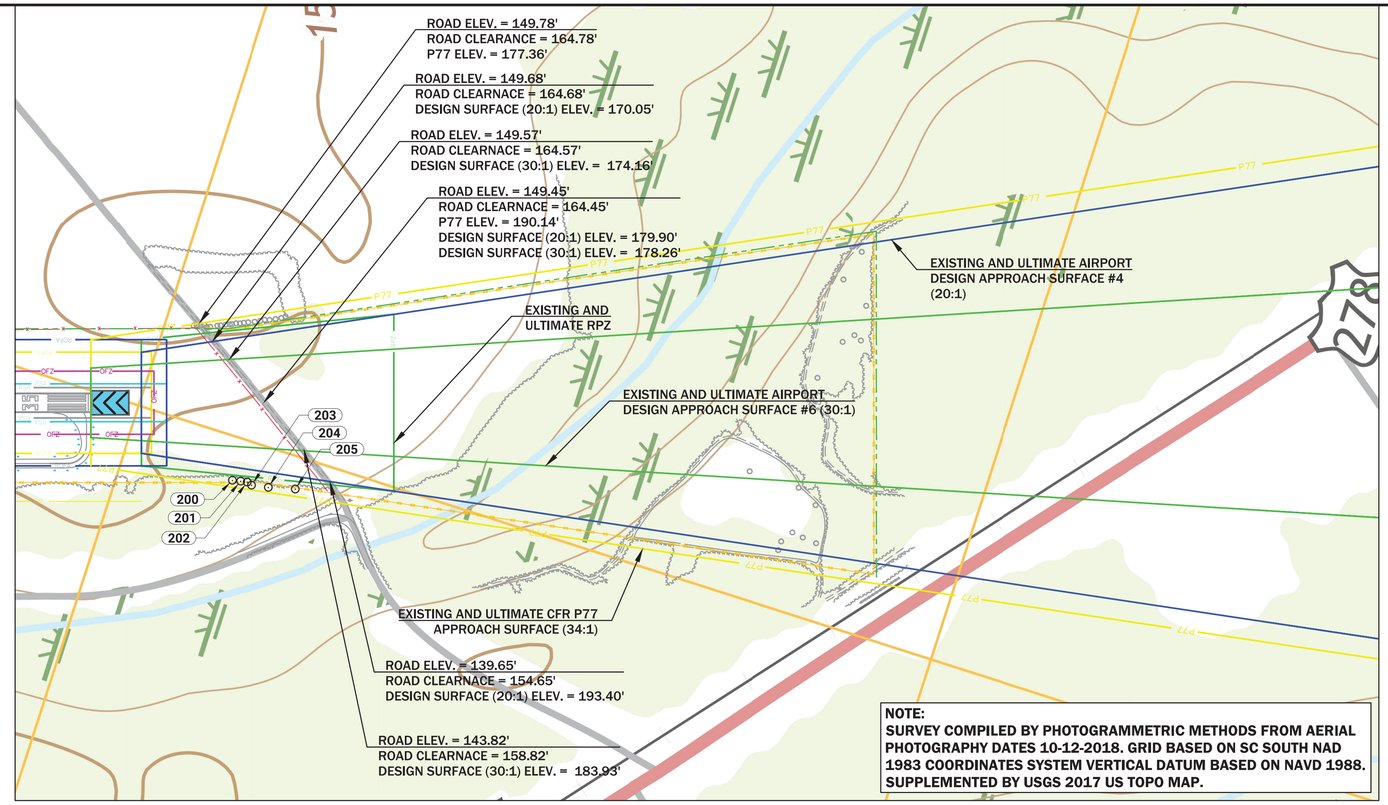
FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

RUNWAY 35 EXISTING AND ULTIMATE AIRPORT DESIGN APPROACH SURFACE #4 (20:1 SLOPE) OBSTRUCTION DATA					
#	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
NO OBSTRUCTIONS					

RUNWAY 35 EXISTING AND ULTIMATE AIRPORT DESIGN APPROACH SURFACE #6 (30:1 SLOPE) OBSTRUCTION DATA					
	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
NO OBSTRUCTIONS					

RUNWAY 35 EXISTING AND ULTIMATE CFR PART 77 SURFACE (34:1 SLOPE) OBSTRUCTION DATA TABLE					
#	TYPE	OBSTACLE ELEVATION	SURFACE ELEVATION	PENETRATION	DISPOSITION
200	TREE	184.78	172.39	12.39	REMOVAL
201	TREE	189.3	173.36	15.94	REMOVAL
202	TREE	188.15	174.11	14.04	REMOVAL
203	TREE	188.22	174.62	13.6	REMOVAL
204	TREE	201.45	176.57	24.88	REMOVAL
205	TREE	203.27	180	23.27	REMOVAL

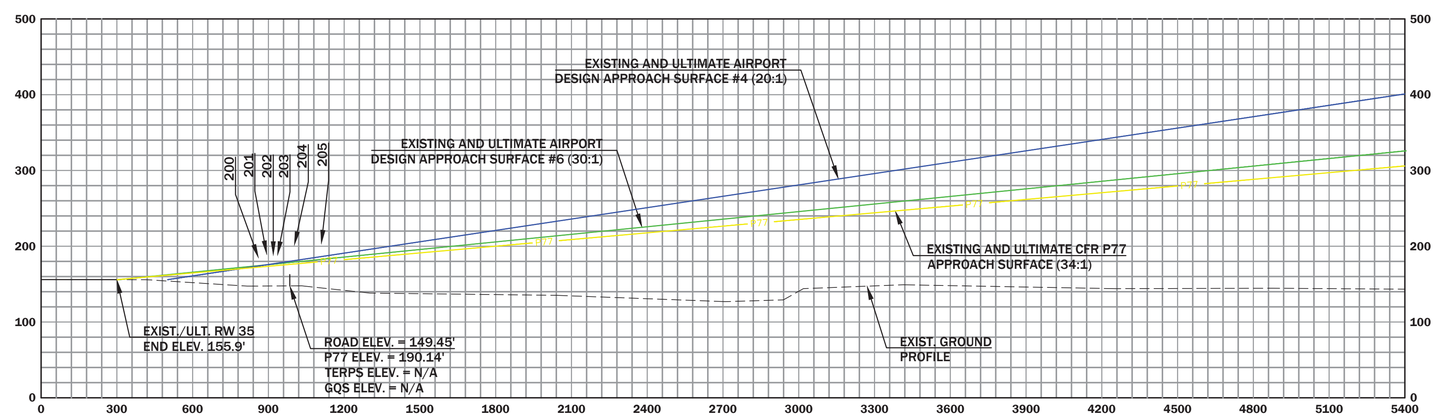


NOTE:
SURVEY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATES 10-12-2018. GRID BASED ON SC SOUTH NAD 1983 COORDINATES SYSTEM VERTICAL DATUM BASED ON NAVD 1988. SUPPLEMENTED BY USGS 2017 US TOPO MAP.

PLAN VIEW RUNWAY 35 APPROACH SURFACES

MAGNETIC DECLINATION
7° 42' W CHANGING BY
0° 2' W PER YEAR

GRAPHIC SCALE (FEET)
0 150 300 600
HORIZONTAL
100
0
VERTICAL



PROFILE VIEW RUNWAY 35 APPROACH SURFACES

NOTE:
FOR DEPARTURE SURFACE DRAWING OBSTRUCTION INFORMATION TABLES, REFER TO APPENDIX C OF THE AIRPORT LAYOUT PLAN FINAL DRAFT REPORT , JULY 2020.

HOLT CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

INNER PORTION OF RUNWAY 35 APPROACH SURFACE

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

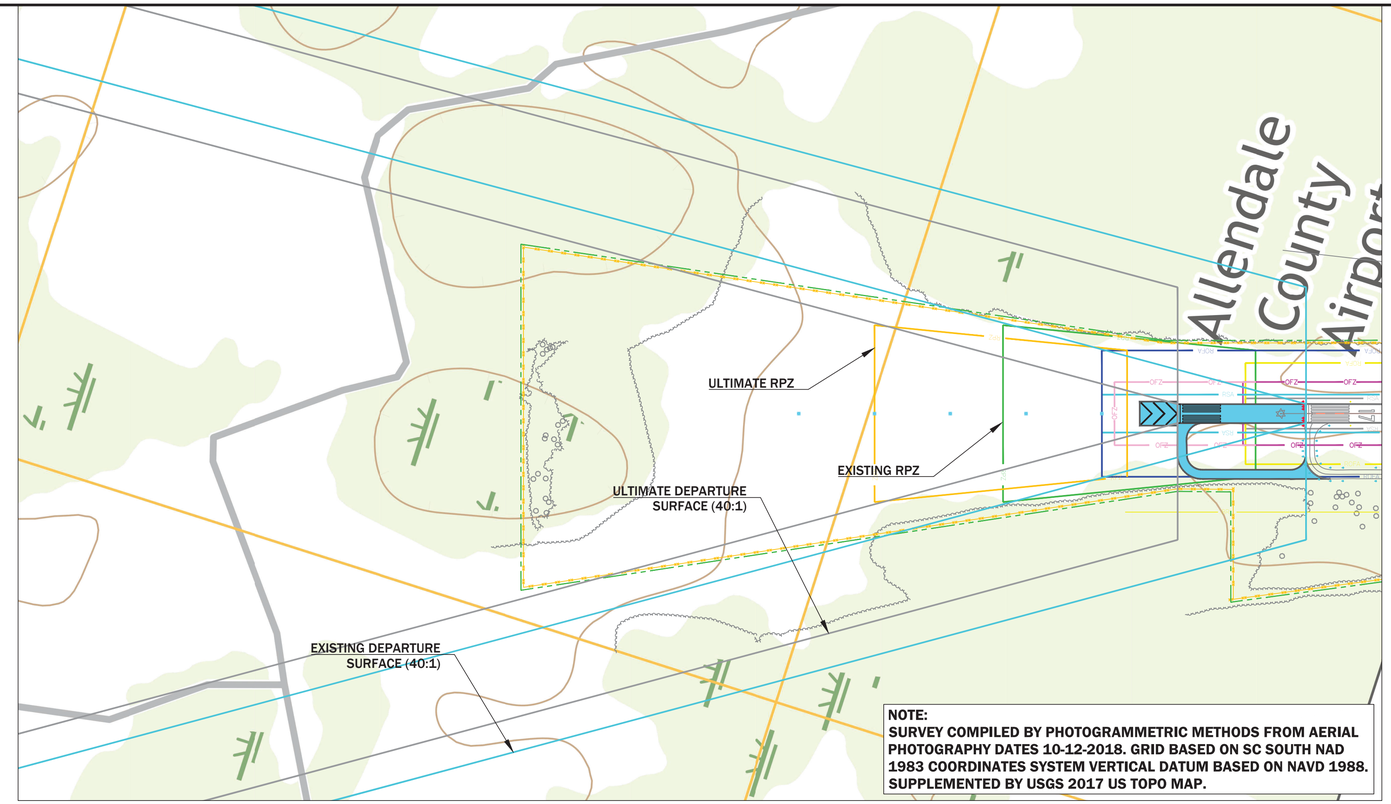
ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

NOTE:
FOR DEPARTURE SURFACE DRAWING OBSTRUCTION INFORMATION TABLES, REFER TO APPENDIX C OF THE AIRPORT LAYOUT PLAN FINAL DRAFT REPORT , JULY 2020.

ALL DEPARTURE OBSTACLES WERE GENERATED PRIOR TO NEW SURFACE PUBLICATION (EB 99A)

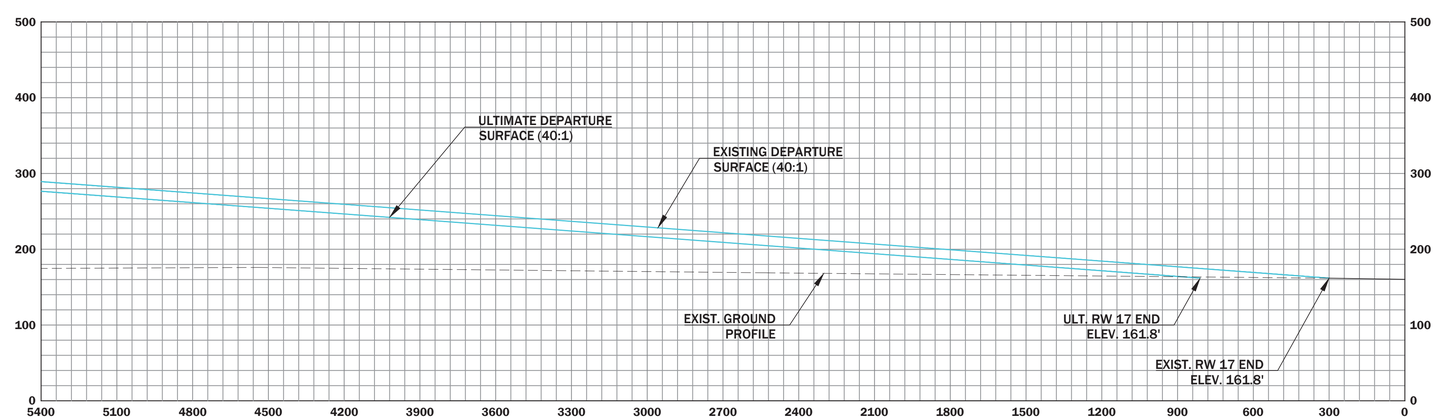


NOTE:
SURVEY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATES 10-12-2018. GRID BASED ON SC SOUTH NAD 1983 COORDINATES SYSTEM VERTICAL DATUM BASED ON NAVD 1988. SUPPLEMENTED BY USGS 2017 US TOPO MAP.

PLAN VIEW RUNWAY 17 APPROACH SURFACES

MAGNETIC DECLINATION
7° 42' W CHANGING BY
0° 2' W PER YEAR

GRAPHIC SCALE (FEET)
0 150 300 600
HORIZONTAL
100
0
VERTICAL



PROFILE VIEW RUNWAY 17 APPROACH SURFACES

HOLT CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

RUNWAY 17 DEPARTURE SURFACE

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

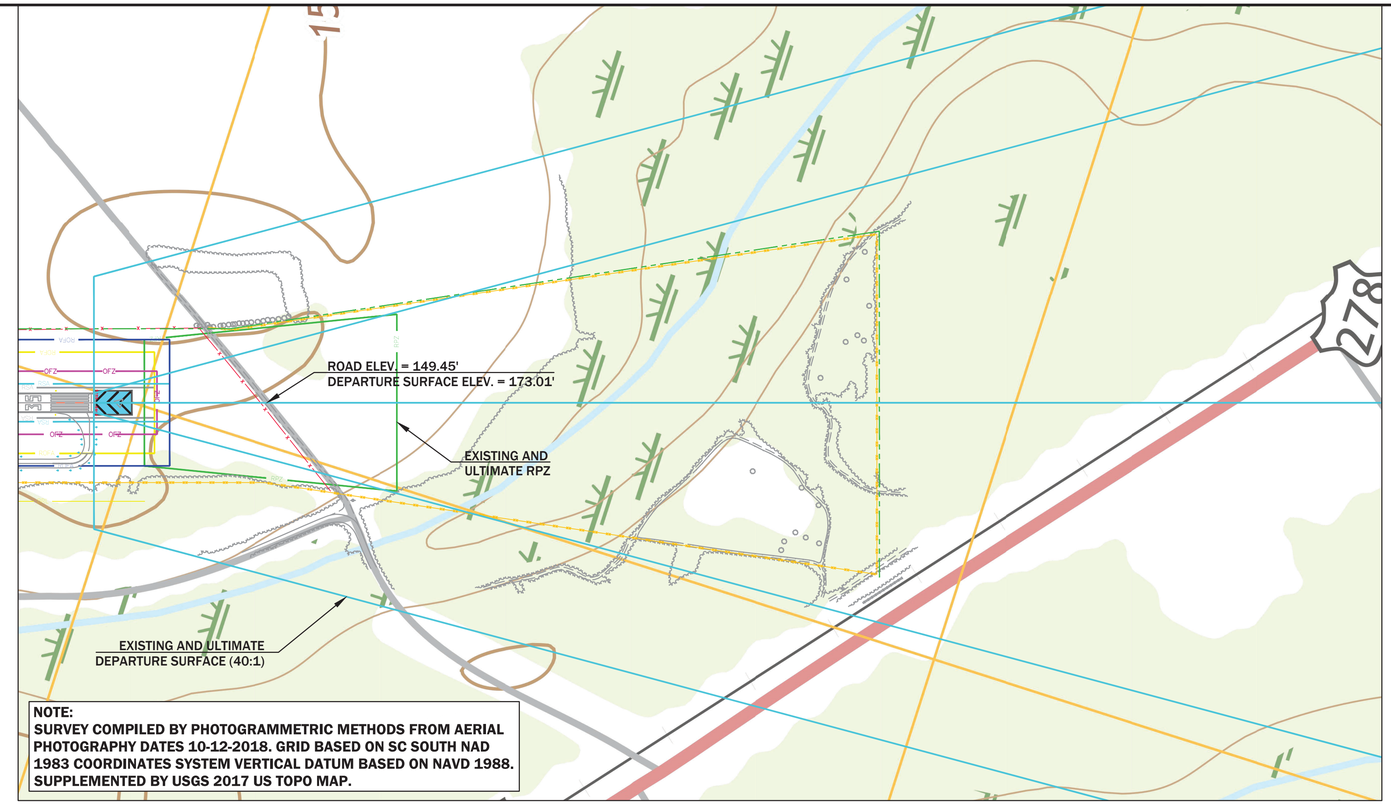
ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION

NOTE:
FOR DEPARTURE SURFACE DRAWING OBSTRUCTION INFORMATION TABLES, REFER TO APPENDIX C OF THE AIRPORT LAYOUT PLAN FINAL DRAFT REPORT , JULY 2020.

ALL DEPARTURE OBSTACLES WERE GENERATED PRIOR TO NEW SURFACE PUBLICATION (EB 99A)



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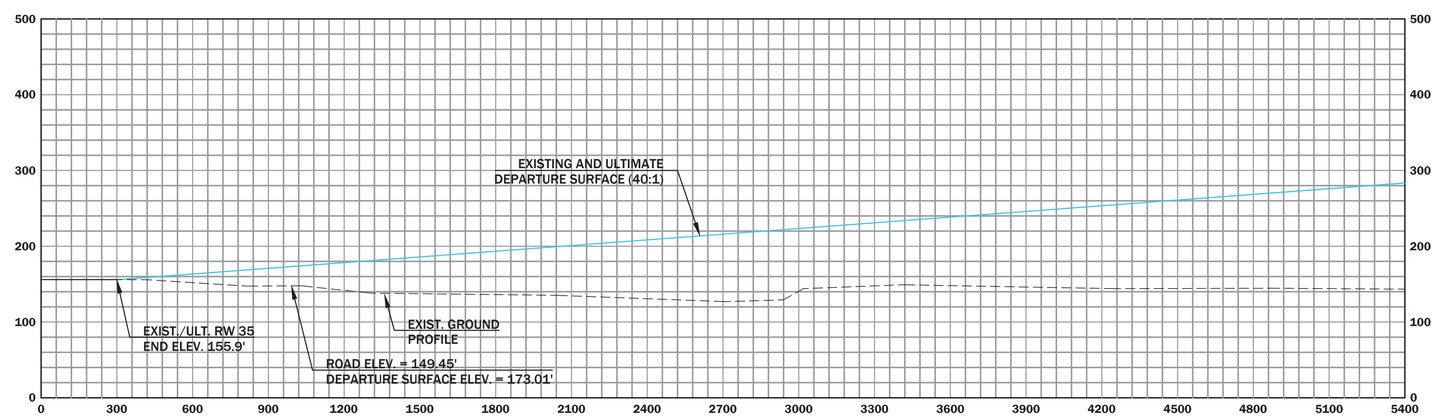
SURVEY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATES 10-12-2018. GRID BASED ON SC SOUTH NAD 1983 COORDINATES SYSTEM VERTICAL DATUM BASED ON NAVD 1988. SUPPLEMENTED BY USGS 2017 US TOPO MAP.

PLAN VIEW RUNWAY 35 DEPARTURE SURFACES

MAGNETIC DECLINATION
7° 42' W CHANGING BY
0° 2' W PER YEAR

GRAPHIC SCALE (FEET)
0 150 300 600
HORIZONTAL
100
0
VERTICAL



PROFILE VIEW RUNWAY 35 DEPARTURE SURFACES

HOLT CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

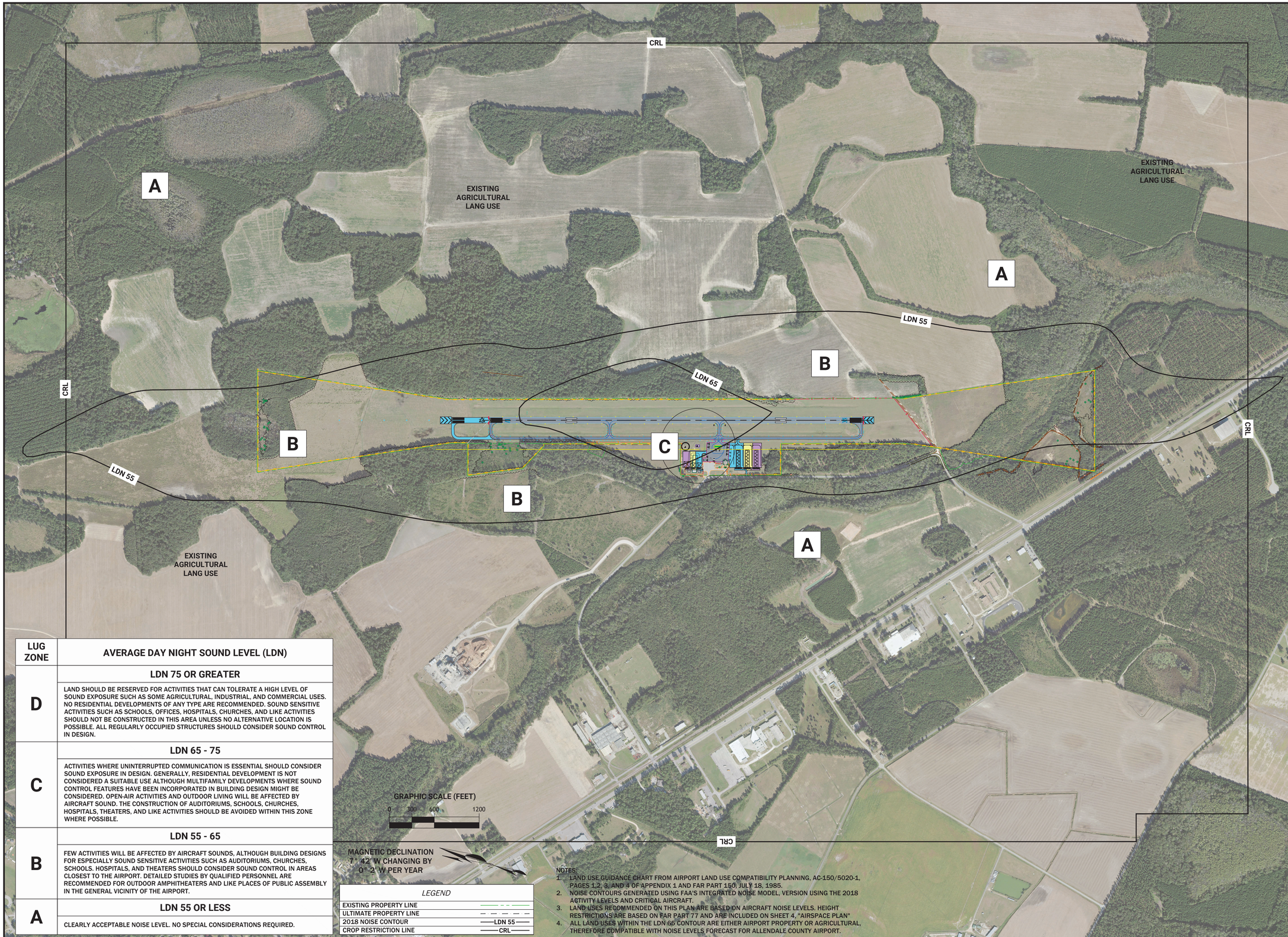
RUNWAY 35 DEPARTURE SURFACE

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION



LUG ZONE	AVERAGE DAY NIGHT SOUND LEVEL (LDN)
D	**LDN 75 OR GREATER** LAND SHOULD BE RESERVED FOR ACTIVITIES THAT CAN TOLERATE A HIGH LEVEL OF SOUND EXPOSURE SUCH AS SOME AGRICULTURAL, INDUSTRIAL, AND COMMERCIAL USES. NO RESIDENTIAL DEVELOPMENTS OF ANY TYPE ARE RECOMMENDED. SOUND SENSITIVE ACTIVITIES SUCH AS SCHOOLS, OFFICES, HOSPITALS, CHURCHES, AND LIKE ACTIVITIES SHOULD NOT BE CONSTRUCTED IN THIS AREA UNLESS NO ALTERNATIVE LOCATION IS POSSIBLE. ALL REGULARLY OCCUPIED STRUCTURES SHOULD CONSIDER SOUND CONTROL IN DESIGN.
C	**LDN 65 - 75** ACTIVITIES WHERE UNINTERRUPTED COMMUNICATION IS ESSENTIAL SHOULD CONSIDER SOUND EXPOSURE IN DESIGN. GENERALLY, RESIDENTIAL DEVELOPMENT IS NOT CONSIDERED A SUITABLE USE ALTHOUGH MULTIFAMILY DEVELOPMENTS WHERE SOUND CONTROL FEATURES HAVE BEEN INCORPORATED IN BUILDING DESIGN MIGHT BE CONSIDERED. OPEN-AIR ACTIVITIES AND OUTDOOR LIVING WILL BE AFFECTED BY AIRCRAFT SOUND. THE CONSTRUCTION OF AUDITORIUMS, SCHOOLS, CHURCHES, HOSPITALS, THEATERS, AND LIKE ACTIVITIES SHOULD BE AVOIDED WITHIN THIS ZONE WHERE POSSIBLE.
B	**LDN 55 - 65** FEW ACTIVITIES WILL BE AFFECTED BY AIRCRAFT SOUNDS, ALTHOUGH BUILDING DESIGNS FOR ESPECIALLY SOUND SENSITIVE ACTIVITIES SUCH AS AUDITORIUMS, CHURCHES, SCHOOLS. HOSPITALS, AND THEATERS SHOULD CONSIDER SOUND CONTROL IN AREAS CLOSEST TO THE AIRPORT. DETAILED STUDIES BY QUALIFIED PERSONNEL ARE RECOMMENDED FOR OUTDOOR AMPHITHEATERS AND LIKE PLACES OF PUBLIC ASSEMBLY IN THE GENERAL VICINITY OF THE AIRPORT.
A	**LDN 55 OR LESS** CLEARLY ACCEPTABLE NOISE LEVEL. NO SPECIAL CONSIDERATIONS REQUIRED.

LEGEND

EXISTING PROPERTY LINE	
ULTIMATE PROPERTY LINE	
2018 NOISE CONTOUR	LDN 55
CROP RESTRICTION LINE	CRL

NOTES:
1. LAND USE GUIDANCE CHART FROM AIRPORT LAND USE COMPATIBILITY PLANNING, AC-150/5020-1, PAGES 1,2, 3, AND 4 OF APPENDIX 1 AND FAR PART 150, JULY 18, 1985.
2. NOISE CONTOURS GENERATED USING FAA'S INTEGRATED NOISE MODEL, VERSION USING THE 2018 ACTIVITY LEVELS AND CRITICAL AIRCRAFT.
3. LAND USES RECOMMENDED ON THIS PLAN ARE BASED ON AIRCRAFT NOISE LEVELS. HEIGHT RESTRICTIONS ARE BASED ON FAR PART 77 AND ARE INCLUDED ON SHEET 4, "AIRSPACE PLAN"
4. ALL LAND USES WITHIN THE LDN 65 CONTOUR ARE EITHER AIRPORT PROPERTY OR AGRICULTURAL, THEREFORE COMPATIBLE WITH NOISE LEVELS FORECAST FOR ALLENDALE COUNTY AIRPORT.

HOLT CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
COLUMBIA, SC 29205

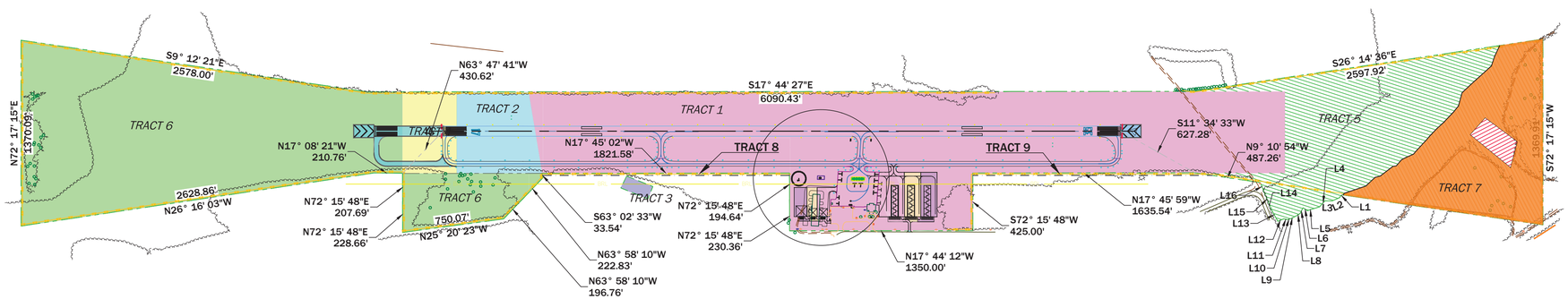
LAND USE PLAN

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION



REFERENCES:

1. PLAT PREPARED FOR ALLENDALE COUNTY AIRPORT, BY WK DICKSON, DATED OCTOBER 20, 1999.
2. PLAT OF (TRACT 4) 27.22 ACRES PREPARED FOR ALLENDALE COUNTY AIRPORT, BY WK DICKSON, DATED SEPTEMBER 29, 1999.
3. PLAT OF (TRACT 5) 20.02 ACRES PREPARED FOR ALLENDALE COUNTY AIRPORT, BY WK DICKSON, DATED FEBRUARY 4, 2000.
4. A PORTION OF TRACT #7 (TMA #122-00-00-011) 22.02 ACRES DOES NOT INCLUDE CEMETARY.

LEGEND	
EXISTING PROPERTY LINE	
ULTIMATE PROPERTY LINE	
ADJOINING PROPERTY LINE	
EXISTING RUNWAY PROTECTION ZONE	RPZ
ULTIMATE RUNWAY PROTECTION ZONE	RPZ

STAGE I	STAGE II	STAGE III

NOTE:

1. THIS IS A COMPOSITE DRAWING OF ALLENDALE COUNTY AIRPORT LAND TITLE OWNERSHIP, AND IS NOT AN ACTUAL GROUND SURVEY. THEREFORE THIS DRAWING DOES NOT MEET THE MINIMUM STANDARDS THAT ARE REQUIRED FOR RECORDATION AND IS NOT A RECORDABLE PLAT.

PROPERTY ACQUISITION

TRACT NO.	INTEREST	DEVELOPMENT STAGE	ACREAGE
6	FEE SIMPLE	STAGE 1	0.671
7	FEE SIMPLE	STAGE 1	0.719

EXISTING PROPERTY TABLE

TRACT #	GRANTOR	GRANTEE	DEED BOOK/PAGE NO.	DATE ACQUIRED	ACRES	INTEREST	FAA AIP NO.
1	NEWMAN HARTER	COUNTY OF ALLENDALE	040 / 231	12/19/1967	89.27	FEE	N/A
2	ELIZABETH O. JOHNS, W.R. JOHNS, JR. AND ELIZABETH J. LIND	ALLENDALE COUNTY	040 / 260	11/30/1967	7.92	FEE	N/A
3	NEWMAN HARTER	ALLENDALE COUNTY	045 / 285	9/26/1972	0.49	FEE	N/A
4	ELIZABETH O. JOHNS, W.R. JOHNS, JR. AND ELIZABETH J. LIND	ALLENDALE COUNTY AERONAUTICS COMMISSION	061 / 296	6/10/1980	5.51	FEE	N/A
5	DOROTHY W. HARTER	COUNTY OF ALLENDALE	132 / 169	12/1/1999	27.22	FEE	AIP 3-45-0003-02
6	EVELINA JOHNS, ELIZABETH J. LIND AND ANN C. LAFFITTE	COUNTY OF ALLENDALE	133 / 069	12/28/1999	69.22	FEE	AIP 3-45-0003-02
7	ROBERT MARION ZEIGLER, EDWARD T. ZEIGLER, WILLIAM R. SPEAKS AND VIRGINIA Z. DELOACH	COUNTY OF ALLENDALE	135 / 013	4/12/2000	22.02	FEE	AIP 3-45-0003-02

MAGNETIC DECLINATION
7° 42' W CHANGING BY
0° 2' W PER YEAR

GRAPHIC SCALE (FEET)

0 250 500 1000

Parcel Line and Curve Table

Line #/Curve #	Length	Bearing/Delta
L1	25.34	N67° 12' 15.00"W
L2	59.92	N40° 28' 30.00"W
L3	50.71	N15° 59' 07.00"W
L4	59.42	N66° 14' 44.00"W
L5	95.01	N34° 57' 30.00"W
L6	37.27	N16° 24' 35.00"E
L7	48.12	N79° 39' 29.00"W
L8	32.79	N49° 28' 20.00"W
L9	44.18	N45° 11' 49.00"W
L10	29.65	N32° 56' 08.00"W
L11	23.36	N1° 18' 27.00"W
L12	48.91	N39° 19' 34.00"W
L13	94.90	S43° 50' 26.00"W
L14	75.67	N49° 12' 53.00"E
L15	80.49	N50° 16' 52.00"E
L16	62.24	N49° 56' 39.00"E

HOLT CONSULTING COMPANY, LLC.
2801 DEVINE STREET, SUITE 201
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EXHIBIT "A" PROPERTY MAP

FAA AIP PROJECT NO. 3-45-0003-015-2018 - SCAC NO. 19-006

ALLENDALE COUNTY AIRPORT

FAIRFAX, SOUTH CAROLINA

DR.	CHK.	DATE	DESCRIPTION