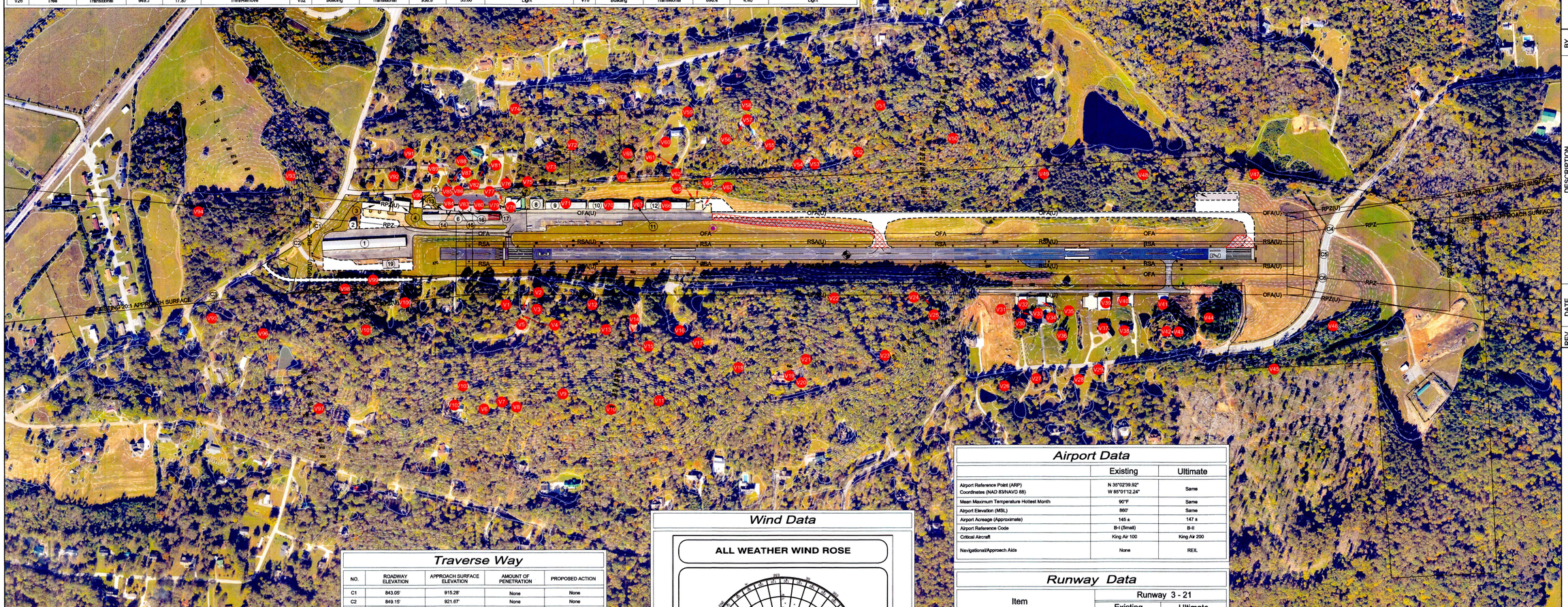
Violations to FAR Part 77 Surfaces

No.	Description	Part 77 Sur.	Elevation	Violation	Proposed Disposition
V1	Building	Transitional	895.5'	1.77'	Light
V2	Building	Transitional	903.8'	5.07'	Light
V3	Tree	Transitional	988.4'	90.39'	Trim/Remove
V4	Utility	Transitional	947.6'	44.59'	Light/Relocate
V5	Building	Transitional	913.7'	2.83'	Light
V6	Building	Transitional	991.1'	5.94'	Light
V7	Building	Transitional	996.9'	18.89'	Light
V8	Utility	Transitional	1024.5'	42.20'	Light/Relocate
V9	Tree	Transitional	1077.7'	113.41'	Trim/Remove
V10	Terrain	Transitional	990.3'	12.94'	Light
V11	Tree	Transitional	1077.9'	118.61'	Trim/Remove
V12	Building	Transitional	897.5'	11.17'	Light
V13	Tree	Transitional	996.5'	94.36'	Trim/Remove
V14	Utility	Transitional	922.3'	28.73'	Light/Relocate
V15	Building	Transitional	904.6'	4.60'	Light
V16	Building	Transitional	899.1'	0.53'	Light
V17	Tree	Transitional	1009.8'	100.51'	Trim/Remove
V18	Tree	Transitional	1015.5'	89.89'	Trim/Remove
V19	Building	Transitional	966.9'	37.61'	Light
V20	Building	Transitional	958.6'	25.03'	Light
V21	Tree	Transitional	1023.7'	110.13'	Trim/Remove
V22	Tree	Transitional	962.9'	112.19'	Trim/Remove
V23	Building	Transitional	943.1'	43.10'	Light
V24	Building	Transitional	891.6'	36.37'	Light
V25	Tree	Transitional	962.6'	98.80'	Trim/Remove
V26	Tree	Transitional	949.7'	17.87'	Trim/Remove
V27	Tree	Transitional	934.3'	9.30'	Trim/Remove
V28	Tree	Transitional	931.9'	2.61'	Trim/Remove
V29	Tree	Transitional	922.3'	0.18'	Trim/Remove
V30	Tree	Transitional	945.7'	68.56'	Trim/Remove
V31	Building	Transitional	904.7'	34.70'	Light
V32	Building	Transitional	872.3'	10.83'	Light
V33	Terrain	Transitional	877.5'	5.21'	Light
V34	Building	Transitional	910.8'	32.94'	Light
V35	Building	Transitional	876.8'	16.09'	Light
V36	Tree	Transitional	937.6'	44.03'	Trim/Remove
V37	Building	Transitional	905.5'	19.03'	Light
V38	Building	Transitional	915.9'	28.61'	Light
V39	Building	Transitional	883.4'	18.40'	Light
V40	Building	Transitional	873.8'	10.23'	Light
V41	Building	Transitional	881.8'	8.37'	Light
V42	Building	Transitional	916.7'	20.41'	Light
V43	Tree	Transitional	948.2'	51.91'	Trim/Remove
V44	Tree	Transitional	946.7'	59.56'	Trim/Remove
V45	Tree	Transitional	941.8'	2.76'	Trim/Remove
V46	Tree	Transitional	917.1'	7.20'	Trim/Remove
V47	Tree	Transitional	911.6'	5.41'	Trim/Remove
V48	Tree	Transitional	943.8'	44.96'	Trim/Remove
V49	Tree	Transitional	918.1'	25.96'	Trim/Remove
V50	Tree	Transitional	1016.1'	102.96'	Trim/Remove
V51	Tree	Transitional	1032.0'	88.29'	Trim/Remove
V52	Building	Transitional	938.8'	33.66'	Light
V53	Building	Transitional	942.4'	46.69'	Light
V54	Building	Transitional	935.6'	40.60'	Light
V55	Terrain	Transitional	922.2'	7.20'	Light
V56	Building	Transitional	953.8'	12.37'	Light
V57	Building	Transitional	954.4'	9.40'	Light
V58	Tree	Transitional	1018.3'	61.16'	Trim/Remove
V59	Tree	Transitional	972.0'	15.57'	Trim/Remove
V60	Tree	Transitional	964.5'	35.21'	Trim/Remove
V61	Tree	Transitional	947.8'	38.51'	Trim/Remove
V62	Utility	Transitional	923.3'	22.59'	Light/Relocate
V63	Utility	Transitional	885.3'	16.73'	Light/Relocate
V64	Utility	Transitional	881.5'	4.36'	Light/Relocate
V65	Utility	Transitional	876.1'	1.10'	Light/Relocate
V66	Building	Transitional	886.9'	12.61'	Light
V67	Building	Transitional	886.8'	11.80'	Light
V68	Utility	Transitional	917.1'	11.39'	Light/Relocate
V69	Tree	Transitional	987.1'	62.81'	Trim/Remove
V70	Building	Transitional	890.6'	10.60'	Light
V71	Building	Transitional	891.5'	5.79'	Light
V72	Tree	Transitional	1032.9'	95.76'	Trim/Remove
V73	Tree	Transitional	1016.9'	99.04'	Trim/Remove
V74	Tree	Transitional	962.5'	6.93'	Trim/Remove
V75	Utility	Transitional	939.2'	29.20'	Light/Relocate
V76	Utility	Transitional	937.0'	26.13'	Light/Relocate
V77	Flagpole	Transitional	896.1'	2.37'	Light/Relocate
V78	Building	Transitional	896.4'	4.40'	Light
V79	Utility	Transitional	898.5'	7.63'	Light/Relocate
V80	Utility	Transitional	899.6'	8.01'	Light/Relocate
V81	Tree	Transitional	966.0'	49.41'	Trim/Remove
V82	Utility	Transitional	922.1'	12.66'	Light/Relocate
V83	Utility	Transitional	901.3'	6.35'	Light/Relocate
V84	Utility	Transitional	902.6'	4.48'	Light/Relocate
V85	Tree	Transitional	920.6'	14.87'	Trim/Remove
V86	Tree	Transitional	919.9'	16.74'	Trim/Remove
V87	Tree	Transitional	952.6'	38.87'	Trim/Remove
V88	Tree	Transitional	957.9'	28.10'	Trim/Remove
V89	Utility	Transitional	917.7'	4.36'	Light/Relocate
V90	Tree	Transitional	938.6'	26.23'	Trim/Remove
V91	Tree	Transitional	949.7'	1.04'	Trim/Remove
V92	Tree	Transitional	939.9'	7.17'	Trim/Remove
V93	Tree	Transitional	985.7'	30.54'	Trim/Remove
V94	Tree	3 Approach	960.2'	7.90'	Trim/Remove
V95	Tree	Transitional	970.7'	9.61'	Trim/Remove
V96	Tree	Transitional	999.5'	35.34'	Trim/Remove
V97	Tree	Transitional	1023.8'	6.64'	Trim/Remove
V98	Tree	3 Approach	969.9'	64.10'	Trim/Remove
V99	Utility	3 Approach	902.9'	8.10'	Light/Relocate
V100	Tree	Transitional	973.3'	67.43'	Trim/Remove
V101	Tree	Transitional	1005.8'	68.88'	Trim/Remove
V102	Building	Transitional	991.9'	6.74'	Light
V103	Tree	Transitional	1029.0'	63.49'	Trim/Remove



Magnetic Declination 4°47'W (2016)
NORTH

Rate of Annual Change
0°5' W (2016)

GRAPHIC SCALE

300 0 150 300 600

(IN FEET)

Layout Plan Legend

Item	Existing	Ultimate
Airfield Pavement		
Building		
Fence Line		
Airport Property Line		
Pavement Demolition		
Rotating Beacon		
Windcone and Segmented Circle		
Ground Contours	500	
Tree Line		
Tree		
Threshold Lights		
REILS		
VGVSI		
Airport Reference Point (ARP)		
Utility Pole		
Part 77 Violation No.	V1	
DISIWIX		

Traverse Way

NO.	ROADWAY ELEVATION	APPROACH SURFACE ELEVATION	AMOUNT OF PENETRATION	PROPOSED ACTION
C1	843.05'	915.28'	None	None
C2	849.15'	921.67'	None	None
C3	866.28'	947.37'	None	None
C4	819.57'	870.08'	None	None
C5	828.43'	868.21'	None	None
C6	838.02'	867.83'	None	None

Runway Safety Area Dimensions

RW End		Width	Length Beyond RW Ends
Runway 3	Existing	120'	240'
	Ultimate	150'	300'
Runway 21	Existing	120'	240'
	Ultimate	150'	300'

Runway Protection Zone Dimensions

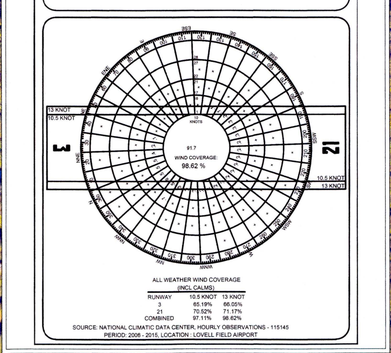
RW End	Existing	Ultimate
3	250' IW x 450' OW x 1,000' L	500' IW x 700' OW x 1,000' L
21	250' IW x 450' OW x 1,000' L	500' IW x 700' OW x 1,000' L

Runway Object Free Area Dimensions

RW End	Existing	Ultimate
3	250' x 5,467'	500' x 5,587'
21	250' x 5,467'	500' x 5,587'

Wind Data

ALL WEATHER WIND ROSE



ALL WEATHER WIND COVERAGE
(INCL CALMS)

RUNWAY	10.5 KNOT	13 KNOT
3	85.19%	95.55%
21	70.52%	71.17%
COMBINED	77.11%	86.62%

SOURCE: NATIONAL CLIMATIC DATA CENTER, HOURLY OBSERVATIONS - 115145
PERIOD: 2006 - 2015, LOCATION : LOVELL FIELD AIRPORT

CONSTRUCTION NOTICE REQUIREMENT

To protect operational safety and future development, all proposed construction on the airport must be coordinated by the Airport Owner with the Tennessee Department of Transportation, Aeronautics Division/FAA prior to construction. TDOT-AD's review takes approximately 60 days.

Airport Data

	Existing	Ultimate
Airport Reference Point (ARP) Coordinates (NAD 83/NAVD 88)	N 35°02'39.92" W 85°01'12.24"	Same
Mean Maximum Temperature Hottest Month	90°F	Same
Airport Elevation (MSL)	860'	Same
Airport Acreage (Approximate)	145 ±	147 ±
Airport Reference Code	B-I (Small)	B-II
Critical Aircraft	King Air 100	King Air 200
Navigational/Approach Aids	None	REIL

Runway Data

Item		Runway 3 - 21 Existing	Runway 3 - 21 Ultimate
Runway Dimensions		4,987' x 75'	Same
Runway Bearing (True)		N 27°12'10.79" E	Same
Approach Visibility Minimums		Visual	1 Mile
Runway Approach		Visual	21 GPS
Runway Safety Area (RSA)		120' x 5,467'	150' x 5,587'
Object Free Area (OFA)		250' x 5,467'	500' x 5,587'
Obstacle Free Zone (OFZ)		250' x 5,387'	Same
Runway Approach Surfaces		20:1	20:1
Runway/Taxiway Lighting		MIRL / None	Same
Runway/Taxiway Marking		Non-Precision	Same
Effective Runway Gradient (in %)		0.89%	Same
Pavement Material (Surface)		Asphalt	Same
Pavement Strength (thousand lbs.)		None Reported	Same
Instrument Runway		None	21
Runway End Coordinates (NAD 83/NAVD 88)	RW 3	N 35°02'17.98" W 85°01'25.95"	Same
	RW 21	N 35°03'01.85" W 85°00'58.53"	Same
Runway End Elevations	RW 3	872.0	Same
	RW 21	856.9	Same
Touch Down Zone (TDZ) Elevations	RW 3	872.0	Same
	RW 21	857.2	Same
Displaced Threshold	RW 3	N 35°02'21.50" W 85°01'23.75"	Same
Displaced Threshold Elevation	RW 3	867.8	Same

Building Data

No.	Structure	Elev.
1	Existing T-Hangar	871.9'
2	Existing Maintenance Building	875.2'
3	Existing Box Hangars	879.9'
4	Existing Box Hangar	880.1'
5	Existing Box Hangar	884.5'
6	Existing T-Hangar	880.7'
7	Existing Terminal and Hangar	896.4'
8	Existing Box Hangar	889.6'
9	Existing Box Hangar	891.5'
10	Existing Box Hangar	890.6'
11	Existing Box Hangar	888.8'
12	Existing Box Hangar	888.9'
13	Proposed 50' x 50' Box Hangar	TBD
14	Proposed 50' x 50' Box Hangar	TBD
15	Proposed 50' x 50' Box Hangar	TBD
16	Proposed 50' x 50' Box Hangar	TBD
17	Proposed 50' x 50' Box Hangar	TBD
18	Proposed 40' x 250' T-Hangar	TBD
*19	Proposed 50' x 100' Box Hangar	TBD

* Building location not verified, approximate location shown

GARVER

AIRPORT SPONSOR APPROVAL BLOCK

Approved by :
Katie A. Lamb June 18, 2018
City of Collegedale, Tennessee
Date

REV.	DATE	DESCRIPTION	BY

COLLEGEDALE MUNICIPAL AIRPORT
COLLEGEDALE, TENNESSEE

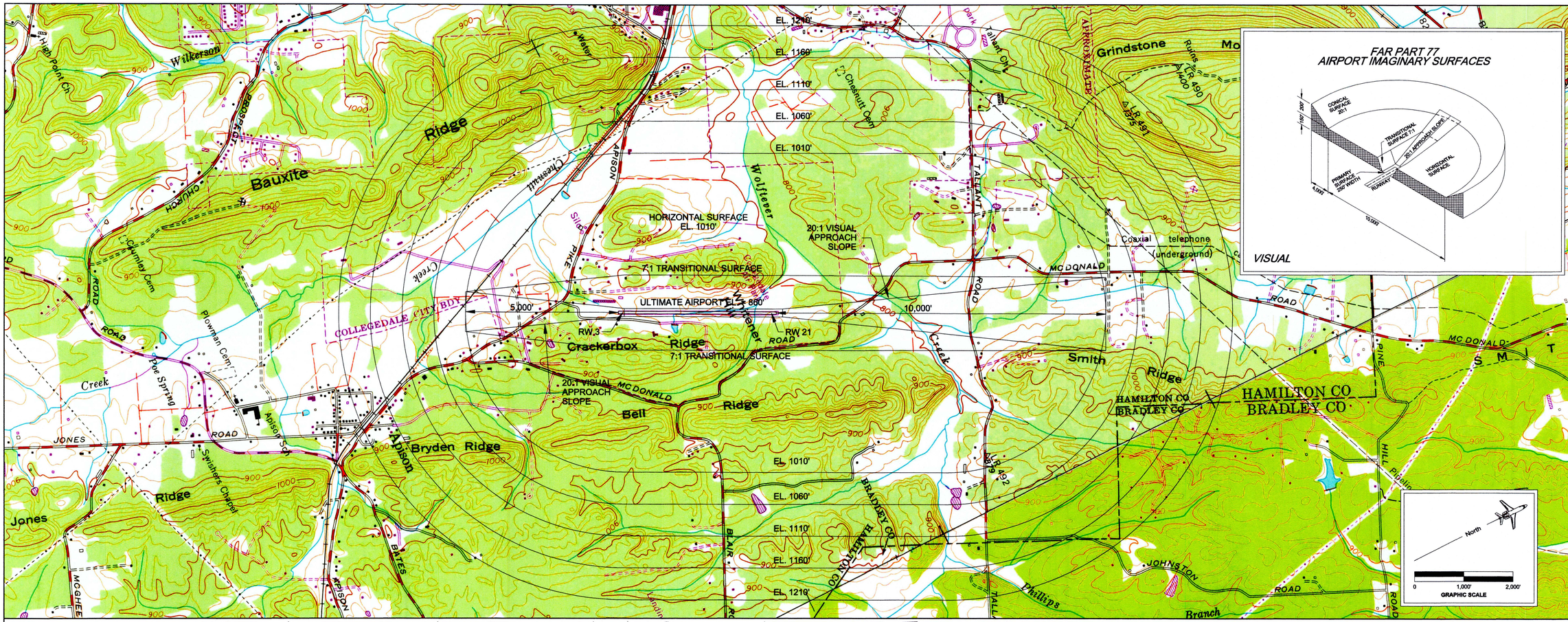
APPROVED: June 2018 -A

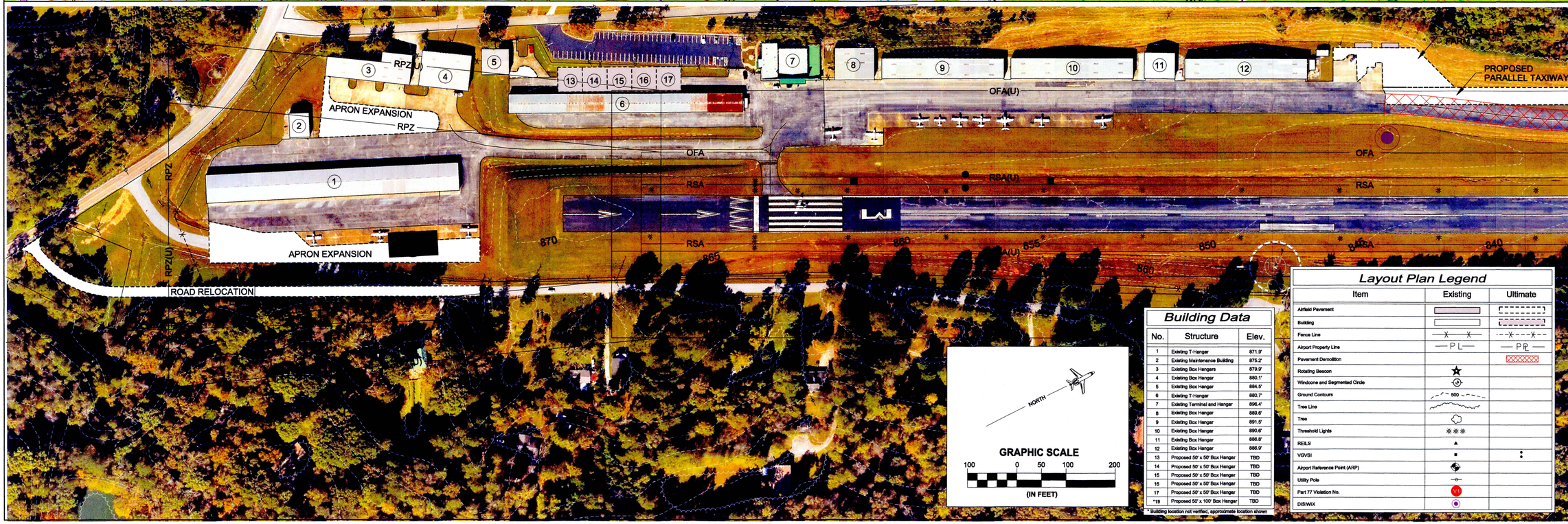
AIRPORT LAYOUT PLAN

JOB NO.: 15061290
DATE: DEC, 2015
DESIGNED BY: RBH
DRAWN BY: ADP

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

SHEET NUMBER
1 OF 4





Building Data

No.	Structure	Elev.
1	Existing T-Hangar	871.9'
2	Existing Maintenance Building	875.2'
3	Existing Box Hangars	879.9'
4	Existing Box Hangar	880.1'
5	Existing Box Hangar	884.5'
6	Existing T-Hangar	880.7'
7	Existing Terminal and Hangar	896.4'
8	Existing Box Hangar	889.6'
9	Existing Box Hangar	891.5'
10	Existing Box Hangar	890.6'
11	Existing Box Hangar	886.6'
12	Existing Box Hangar	886.9'
13	Proposed 50' x 50' Box Hangar	TBD
14	Proposed 50' x 50' Box Hangar	TBD
15	Proposed 50' x 50' Box Hangar	TBD
16	Proposed 50' x 50' Box Hangar	TBD
17	Proposed 50' x 50' Box Hangar	TBD
*19	Proposed 50' x 100' Box Hangar	TBD

* Building location not verified, approximate location shown

Layout Plan Legend

Item	Existing	Ultimate
Airfield Pavement		
Building		
Fence Line		
Airport Property Line	PL	PPL
Pavement Demolition		
Rotating Beacon		
Windcone and Segmented Circle		
Ground Contours	500	
Tree Line		
Tree		
Threshold Lights		
REILS		
VGVSI		
Airport Reference Point (ARP)		
Utility Pole		
Part 77 Violation No.	V1	
DIS/IWIX		

GARVER

AIRPORT SPONSOR APPROVAL BLOCK

Approved by: Katie A. Fowler 6/28/12
City of Collegedale, Tennessee — Date

REV.	DATE	DESCRIPTION	BY

COLLEGEDALE MUNICIPAL AIRPORT
COLLEGEDALE, TENNESSEE

AIRPORT LAYOUT PLAN

AIRSPACE / TERMINAL AREA DEVELOPMENT

JOB NO.: 15061290
DATE: DEC, 2015
DESIGNED BY: RBH
DRAWN BY: ADP

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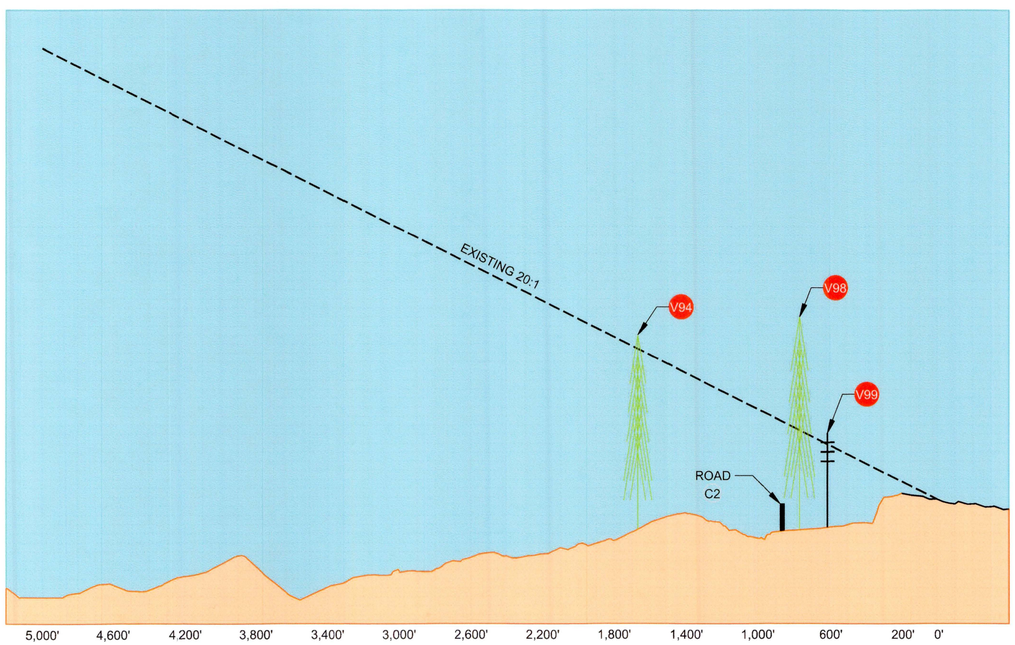
SHEET NUMBER
2 OF 4

PLAN



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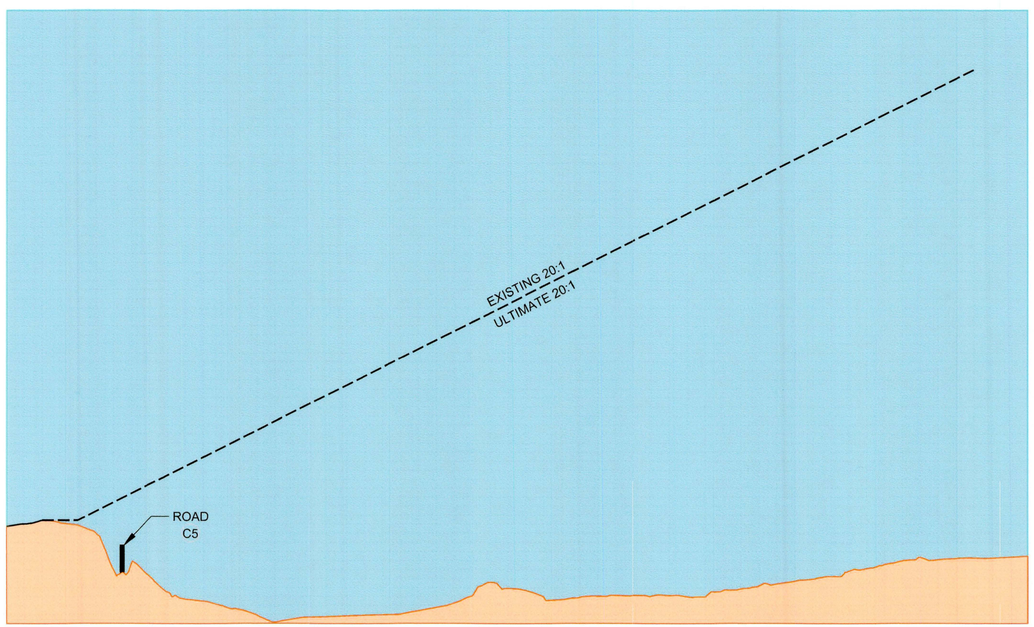

(NOTE: ULTIMATE 20:1 CLEAR TO 10,000')

PROFILE

Runway Protection Zone Dimensions

RW End	Existing	Ultimate
3	250' IW x 450' OW x 1,000' L	500' IW x 700' OW x 1,000' L
21	250' IW x 450' OW x 1,000' L	500' IW x 700' OW x 1,000' L

Violations to FAR Part 77 Surfaces

No.	Description	Part 77 Sur.	Elevation	Violation	Proposed Disposition
V94	Tree	3 Approach	960.2'	7.90'	Trim/Remove
V98	Tree	3 Approach	969.9'	64.10'	Trim/Remove
V99	Utility	3 Approach	902.9'	8.10'	Light/Relocate

Traverse Way

NO.	ROADWAY ELEVATION	APPROACH SURFACE ELEVATION	AMOUNT OF PENETRATION	PROPOSED ACTION
C1	843.05'	915.28'	None	None
C2	849.15'	921.67'	None	None
C3	866.28'	947.37'	None	None
C4	819.57'	870.08'	None	None
C5	828.43'	868.21'	None	None
C6	838.02'	867.83'	None	None

Rate of Annual Change
0°5' W (2016)

GRAPHIC SCALE

400 0 200 400 800

(IN FEET)

Layout Plan Legend

Item	Existing	Ultimate
Airfield Pavement		Not shown
Building		Not shown
Fence Line		Not shown
Airport Property Line		
Windcone and Segmented Circle		N/A
Ground Contours	500	N/A
Tree Line		N/A

Layout Plan Legend

Item	Existing	Ultimate
Tree		N/A
Threshold Lights		N/A
VGVSI		
Utility Pole		N/A
Part 77 Violation No.	1	N/A
Runway Safety Area	RSA	RSA(U)
Runway Object Free Area	OFA	OFA(U)
Runway Protection Zone	RPZ	RPZ(U)

GARVER

AIRPORT SPONSOR
APPROVAL BLOCK

Approved by: Katie A. Spence 6/12/18
City of Collegedale, Tennessee — Date

REV.	DATE	DESCRIPTION	BY

COLLEGEDALE MUNICIPAL AIRPORT
COLLEGEDALE, TENNESSEE

AIRPORT LAYOUT PLAN

INNER APPROACH SURFACE DRAWING
MAIN RUNWAY

JOB NO.: 15061290
DATE: DEC, 2015
DESIGNED BY: RBH
DRAWN BY: ADP

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SHEET NUMBER
3 OF 4

SHORT TERM (1 to 4 YEARS)

ITEM NO.	FY	Project Description	Estimated Cost
1	2018	Crack Seal, Seal Coat, and Pavement Remarking	$225,000
2	2019	Culvert Replacement Under Runway	$450,000
3	2020	Runway Lighting Replacement	$350,000
4	2021	Fuel Farm Expansion and Tank Relocation	$600,000
5	2021	Parrallel Taxiway Design	$150,000
		Total Short Term Cost	$1,775,000

INTERMEDIATE TERM (5 to 10 Years)

ITEM NO.	FY	Project Description	Estimated Cost
1	2022	Parallel Taxiway Construction (Grading Opertions Only)	$750,000
2	2023	Parrallel Taxiway Construction (Paving and Lighting)	$1,200,000
3	2024	Hangar Construction and Demo	$500,000
4	2025	South Ramp Expansion	$600,000
5	2026	Relocate Layton Lane	$250,000
		Total Intermediate Term Cost	$3,300,000

LONG TERM (11 to 15 Years)

ITEM NO.	FY	Project Description
1	2028	GPS Runway 21

AVIATION ACTIVITY SUMMARY

BASED AIRCRAFT		CRITICAL AIRCRAFT SELECTION JUSTIFICATION
SINGLE ENGINE	91	THE CRITICAL AIRCRAFT SELECTION FOR THE COLLEGEDALE MUNICIPAL AIRPORT IS THE KING AIR 200 SERIES AIRCRAFT. AS THE AIRPORT AND SURROUNDING AREAS CONTINUE TO DEVELOP ADDITIONAL BUSINESS THESE AIRCRAFT CAN HAVE ACCESS TO THE AIRPORT. THE DEVELOPMENT OF AN INSTRUMENT APPROACH WILL PROVIDE ADDITIONAL ACCESS TO THE AIRPORT.
MULTI-ENGINE	7	
T-HANGAR WAITING LIST		
ESTIMATED ANNUAL AIRPORT OPERATIONS		
LOCAL	12,750	
ITINERANT	2,250	

Rate of Annual Change
0°5' W (2016)

GRAPHIC SCALE

300 0 150 300 600

(IN FEET)

GARVER

AIRPORT SPONSOR
APPROVAL BLOCK

Approved by: Katie A. Shaw 6/18/18
City of Collegedale, Tennessee Date

REV.	DATE	DESCRIPTION	BY

COLLEGEDALE MUNICIPAL AIRPORT
COLLEGEDALE, TENNESSEE

AIRPORT LAYOUT PLAN

AIRPORT CAPITAL IMPROVEMENT PLAN

JOB NO.: 15061290
DATE: DEC, 2015
DESIGNED BY: RBH
DRAWN BY: ADP

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4 OF 4