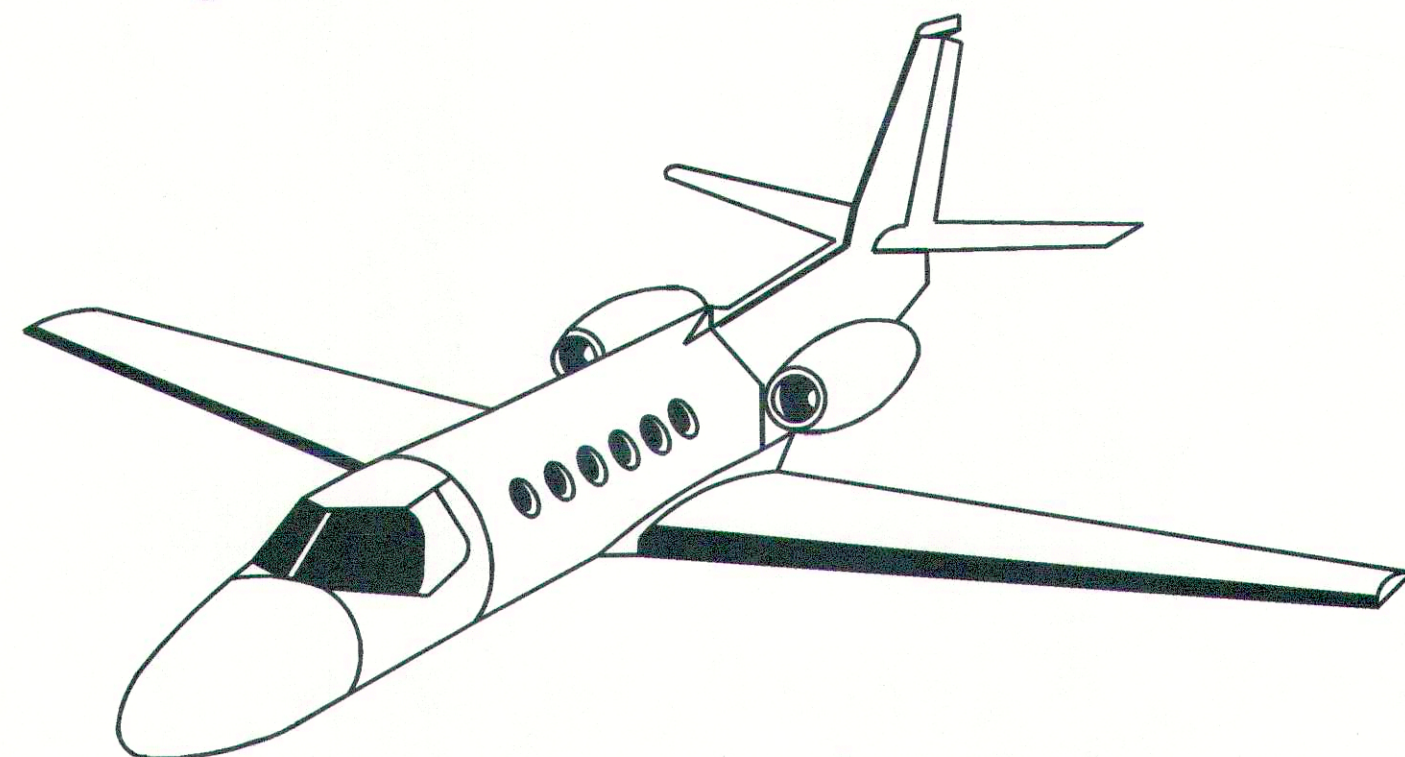


Allen & Hoshall
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Chattanooga, TN 37421
423 892 1203 fax 423 892 1273
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AIRPORT LAYOUT PLAN
AT THE
MARION COUNTY AIRPORT
JASPER, TENNESSEE

TAD PROJECT NO. 58-555-0717-04

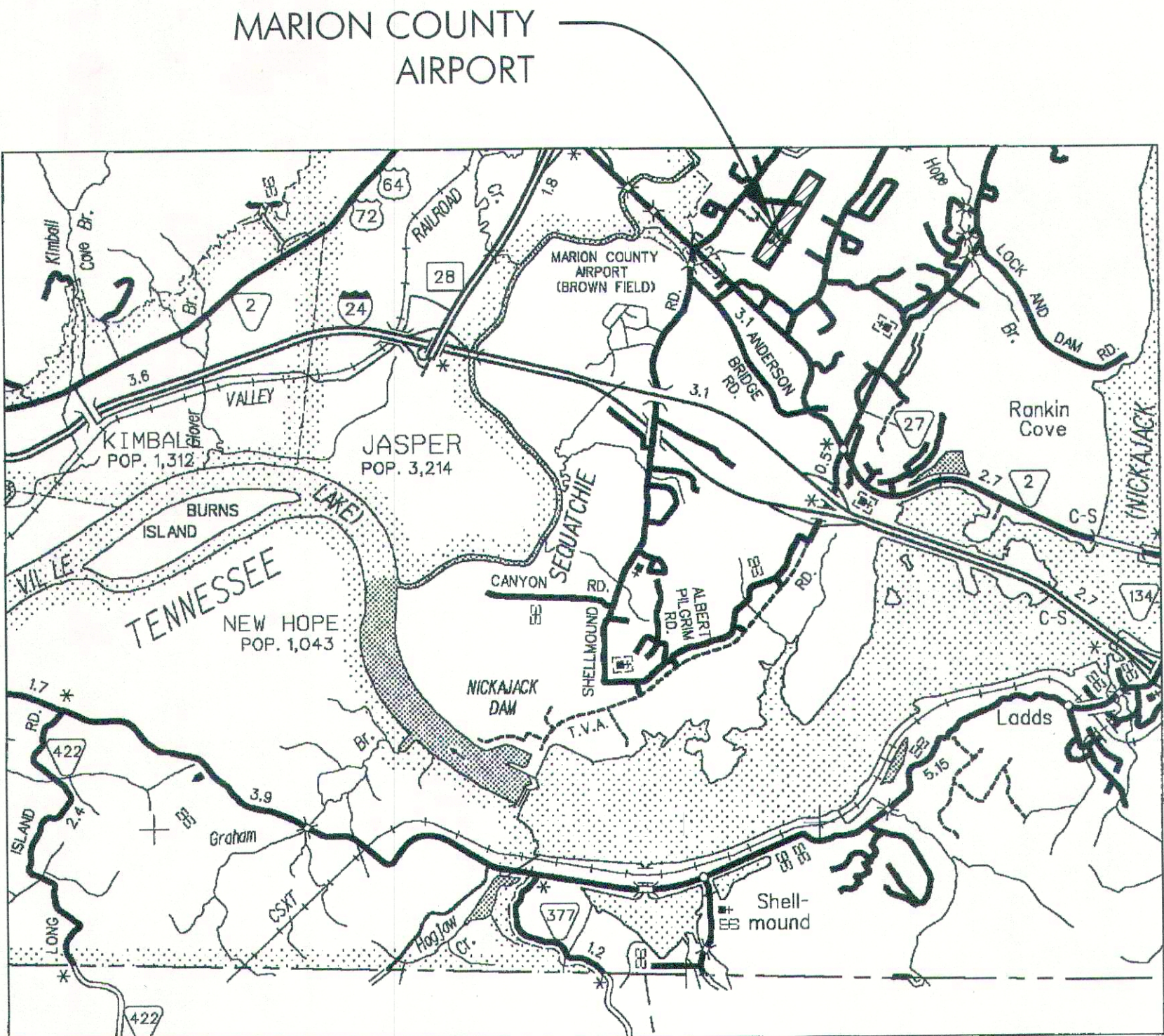
STATE OF TENNESSEE
BILL HASLAM, GOVERNOR

TENNESSEE DEPARTMENT OF TRANSPORTATION

JOHN SCHROER, COMMISSIONER
MICHELLE FRAZIER, AERONAUTICS DIRECTOR
PAUL PERRY, AERONAUTICS PROJECT MANAGER

MARION COUNTY, TENNESSEE

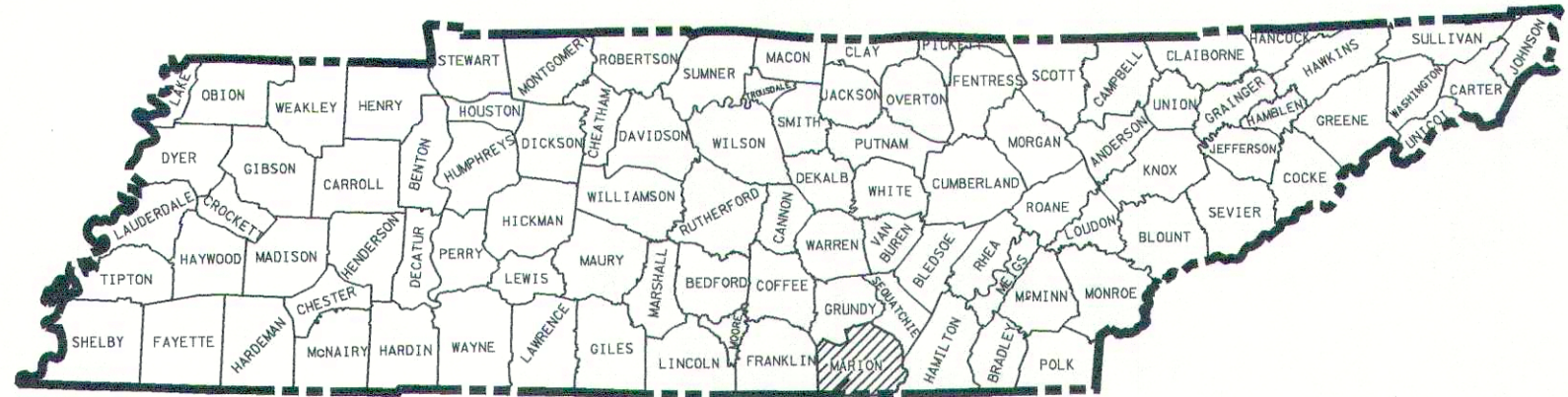
HON. DAVID JACKSON, COUNTY MAYOR
BETH GUDGER, AIRPORT MANAGER



VICINITY MAP
NO SCALE

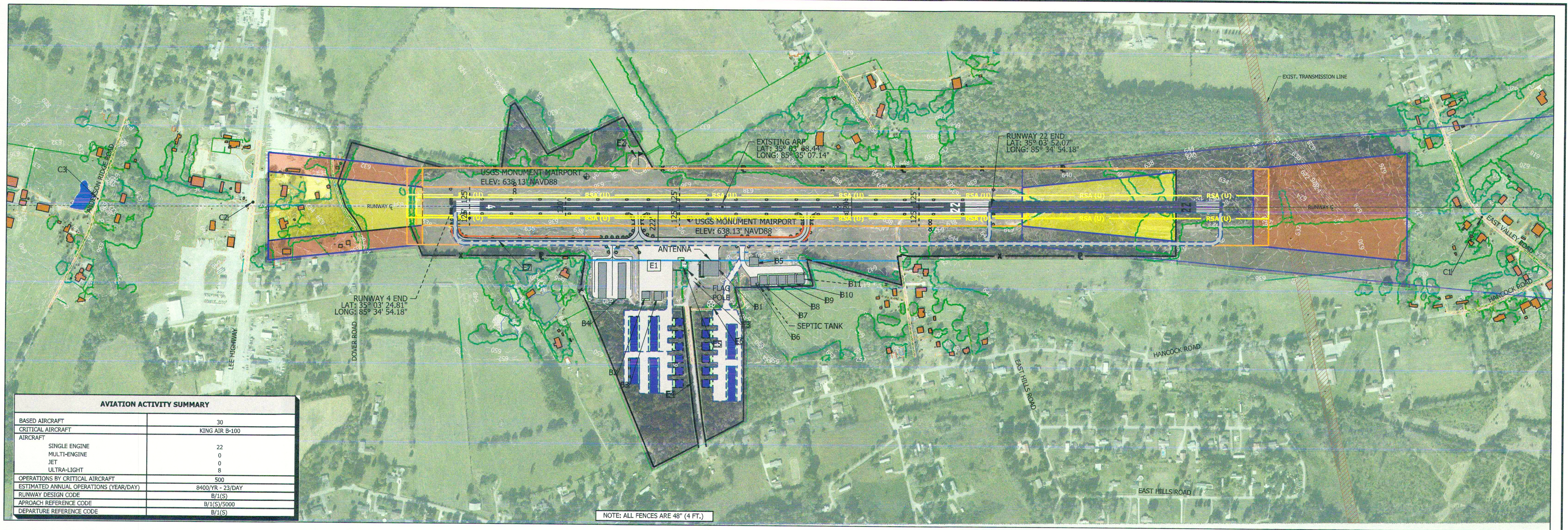
DRAWING INDEX

SHEET NO.	SHEET TITLE
	COVER
1	AIRPORT LAYOUT DRAWING
2	TERMINAL AREA DRAWING
3	PART 77 AIRSPACE DRAWING
4	INNER APPROACH OF RUNWAY 22
5	INNER APPROACH OF RUNWAY 4
6	LAND USE DRAWING
7	PROPERTY MAP
8	ACIP DRAWING



PROJECT LOCATION

71930
JULY, 2018



AVIATION ACTIVITY SUMMARY	
BASED AIRCRAFT	30
CRITICAL AIRCRAFT	KING AIR B-100
AIRCRAFT	
SINGLE ENGINE	22
MULTI-ENGINE	0
JET	0
ULTRA-LIGHT	8
OPERATIONS BY CRITICAL AIRCRAFT	500
ESTIMATED ANNUAL OPERATIONS (YEAR/DAY)	8400/YR - 23/DAY
RUNWAY DESIGN CODE	B/1(S)
APPROACH REFERENCE CODE	B/1(S)/5000
DEPARTURE REFERENCE CODE	B/1(S)

LEGEND		
DESCRIPTION	EXISTING	ULTIMATE
RUNWAY CENTERLINE	---	---
RUNWAY SAFETY AREA (RSA)	---	---
RUNWAY OBJECT FREE AREA (ROFA)	---	---
RUNWAY OBSTACLE FREE ZONE (ROFZ)	---	---
RUNWAY PROTECTION ZONE (RPZ)	---	---
TAXIWAY OBJECT FREE AREA (TOFA)	---	---
TAXIWAY SAFETY AREA (TSA)	---	---
BUILDING RESTRICTION LINE (BRL)	---	---
PAVED RUNWAY SURFACE	---	---
PAVED TAXIWAY SURFACE	---	---
PAVED APRON SURFACE	---	---
CONCRETE	---	---
WINDSOCK	---	---
AIRPORT REFERENCE POINT	---	---
AIRPORT BUILDINGS	---	---
OTHER BUILDINGS/STRUCTURES	---	---
FACILITY IDENTIFICATION NUMBER	E1 B1	P1
AIRPORT PROPERTY LINE / EASEMENTS	---	---
AIRPORT PROPERTY LINE W/ FENCE	---	---
OTHER PROPERTY LINES	---	---
FENCE	---	---
RAILROAD	---	---
ROADS	---	---
TREE LINE	---	---
WATER/WETLANDS	---	---
GROUND ELEVATION CONTOURS	---	---
PAPI	---	---
RUNWAY/TAXIWAY LIGHTS	---	---
ROTATING BEACON	---	---

RUNWAY DATA 4/22			
	EXISTING	ULTIMATE	
AIRPORT REFERENCE CODE	B-1(S)	B-II	
CRITICAL AIRCRAFT	KING AIR B-100	SUPER KING AIR 200	
APPROACH VISIBILITY MINIMUMS	1 1/4 MILE	1 MILE	
RUNWAY LENGTH	3,498'	5,000'	
RUNWAY WIDTH	75'	SAME	
APPROACH SURFACE SLOPE*	20:1/20:1 (NON-PRECISION)	34:1/34:1 (NON-PRECISION)	
INSTRUMENT APPROACH AIDS*	RNAV (GPS), NDB R/W 4	NON-PRECISION	
RUNWAY MARKING	NON-PRECISION	SAME	
RUNWAY LIGHTING	MIRL	SAME	
VISUAL APPROACH AIDS*	REIL, 4-LIGHT PAPI	SAME	
WIND COVERAGE (%) 10.5 KNOTS	96.56%	SAME	
RUNWAY BEARING	38.02°	SAME	
EFFECTIVE GRADIENT (%)	0%	SAME	
PAVEMENT CONSTRUCTION	ASPHALT	SAME	
PAVEMENT STRENGTH			
	SINGLE WHEEL	30,000 SWL	30,000 SWL
	DUAL WHEEL		
RUNWAY END COORDINATES (NAD 83)			
	RWY 4	N 35° 03' 24.81" W 85° 35' 20.15"	SAME
	RWY 22	N 35° 03' 52.07" W 85° 35' 54.18"	N 35° 04' 03.77" W 85° 34' 43.05"
RUNWAY END ELEVATIONS (NAVD 88)			
	RWY 4	640.8'	SAME
	RWY 22	640.8'	640.8'
TOUCHDOWN ZONE ELEVATIONS			
	RWY 4	640.8'	640.8'
	RWY 22	640.8'	640.8'
MAXIMUM RUNWAY ELEVATION			
	RWY 4	640.8'	640.8'
	RWY 22	640.8'	640.8'
TAXIWAY WIDTHS			
TAXIWAY SAFETY AREA	35'	35'	
TAXIWAY OFA	49'	79'	
TAXIWAY OFA	89'	131'	
APPROACH REFERENCE CODE	B/1(S)/5000		
DEPARTURE REFERENCE CODE	B/1(S)		

RUNWAY OBJECT FREE AREA DIMENSIONS		
RWY, END	EXISTING	ULTIMATE
4	250' X 240' BEYOND RUNWAY END	500' X 300' BEYOND RUNWAY END
22	250' X 240' BEYOND RUNWAY END	500' X 300' BEYOND RUNWAY END

EXISTING FACILITIES		
NO.	FACILITY NAME	TOP ELEVATION
E1	AIRCRAFT PARKING APRON	N/A
E2	LIGHTED WIND CONE & SEGMENTED CIRCLE	660.1
E3	AUTO PARKING	N/A
E4	AIRPORT ACCESS ROAD	N/A
E5	ABOVE GROUND FUEL FARM	664
E6	ROTATING BEACON	704.1
E7	PARALLEL TAXIWAY	641.1
B1	EXISTING 100' X 100' STORAGE HANGAR W/20' LEAN-TO FBO	664.9
B2	EXISTING 50' X 50' STORAGE HANGAR	663.0
B3	EXISTING 50' X 60' STORAGE HANGAR	662.4
B4	EXISTING 10 UNIT T-HANGAR (2)	657 & 657.2
B5	EXISTING 60' X 60' CORPORATE HANGAR	664.6
B6	EXISTING 66' X 59' HANGAR	659.0
B7	EXISTING 60' X 60' CORPORATE HANGAR	664.0
B8	EXISTING 60' X 60' CORPORATE HANGAR	664.0
B9	EXISTING 60' X 60' CORPORATE HANGAR	664.5
B10	EXISTING 60' X 60' CORPORATE HANGAR	664.4
B11	EXISTING 60' X 60' CORPORATE HANGAR	668.7

TRAVERSE WAY TABLE			
NO.	ROADWAY ELEVATION	TRAVERSE WAY HEIGHT ALLOWANCE (15')	APPROACH SURFACE ELEVATION
C1	626.7	641.7	651.8
C2	639.9	654.9	665.6
C3	633.1	648.1	672.2

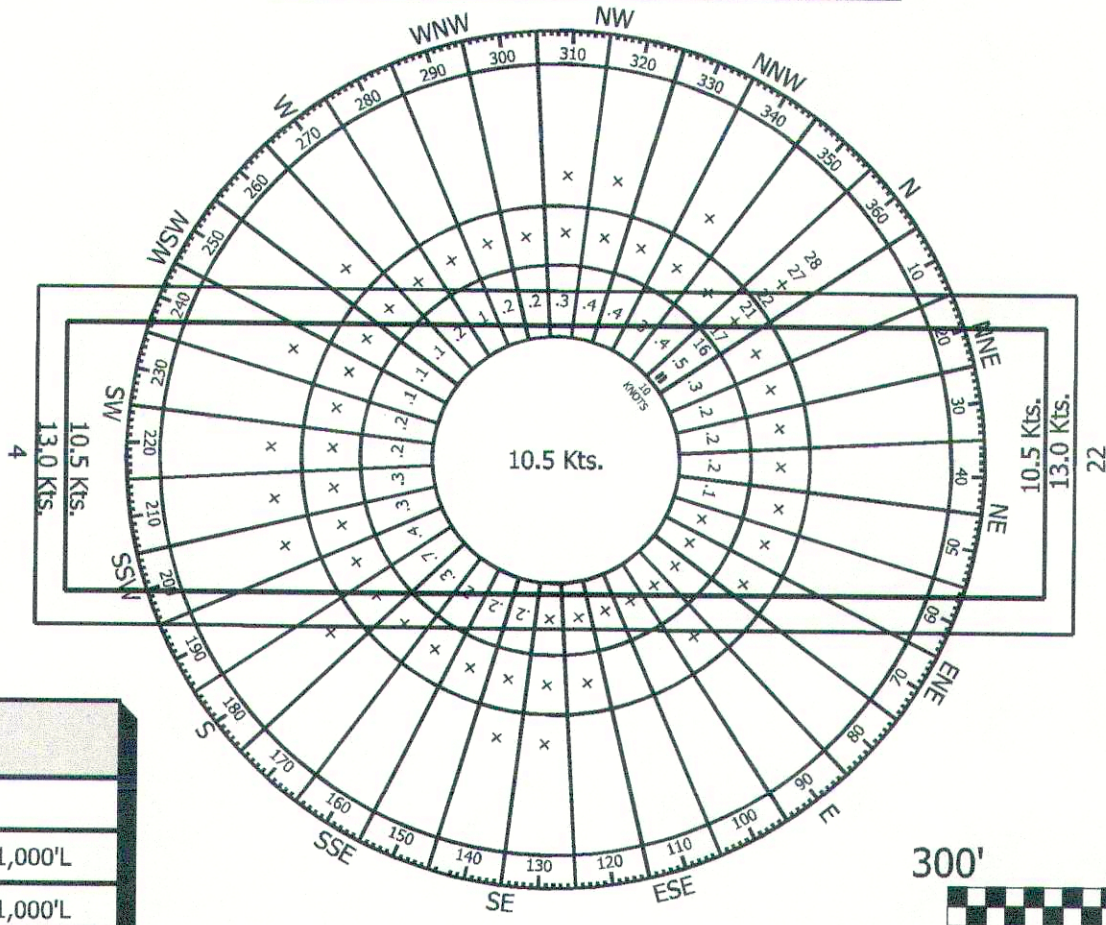
RUNWAY SAFETY AREA DIMENSIONS		
RWY, END	EXISTING	ULTIMATE
4	120' W X 240' BEYOND RUNWAY END	150' X 300' BEYOND RUNWAY END
22	120' W X 240' BEYOND RUNWAY END	150' X 300' BEYOND RUNWAY END

RUNWAY PROTECTION ZONE DIMENSIONS		
RWY, END	EXISTING	ULTIMATE
4	250' TW X 450' OW X 1,000'L	500' TW X 700' OW X 1,000'L
22	250' TW X 450' OW X 1,000'L	500' TW X 700' OW X 1,000'L

AIRPORT DATA		
	EXISTING	ULTIMATE
AIRPORT ELEVATION (MSL)(NAVD 88)	641.2'	SAME
AIRPORT REFERENCE POINT (NAD 83)	N 35° 03' 38.44" W 85° 35' 07.14"	N 35° 03' 44.29" W 85° 35' 01.58"
MEAN MAX TEMPERATURE OF HOTTEST MONTH	90.7° F	SAME
AIRPORT TERMINAL AREA NAVAIDS	GPS	SAME
TAXIWAY LIGHTING	MITL	SAME

ALL WEATHER WIND ROSE
SOURCE: NCDC CHATTANOOGA, TN.
PERIOD: 2004 - 2013
OBSERVATIONS: 95,662
COVERAGE: 96.48% FOR 10.5 KNOTS
98.32% FOR 13 KNOTS

SPONSOR APPROVAL BLOCK	
Signature <i>John Paul Saalwachter</i>	Date 3/4/20
Printed Name John Paul Saalwachter	
State Block Grant Program Tennessee Dept. of Transportation Subject to comments in Approval Letter	
MAYOR <i>John Paul Saalwachter</i>	DATE 11-7-11



MAGNETIC DECLINATION
4° 27' W - 2017, ANNUAL
RATE OF CHANGE 0° 5' W

GRAPHIC SCALE
1" = 300'

CONSTRUCTION NOTICE REQUIREMENT

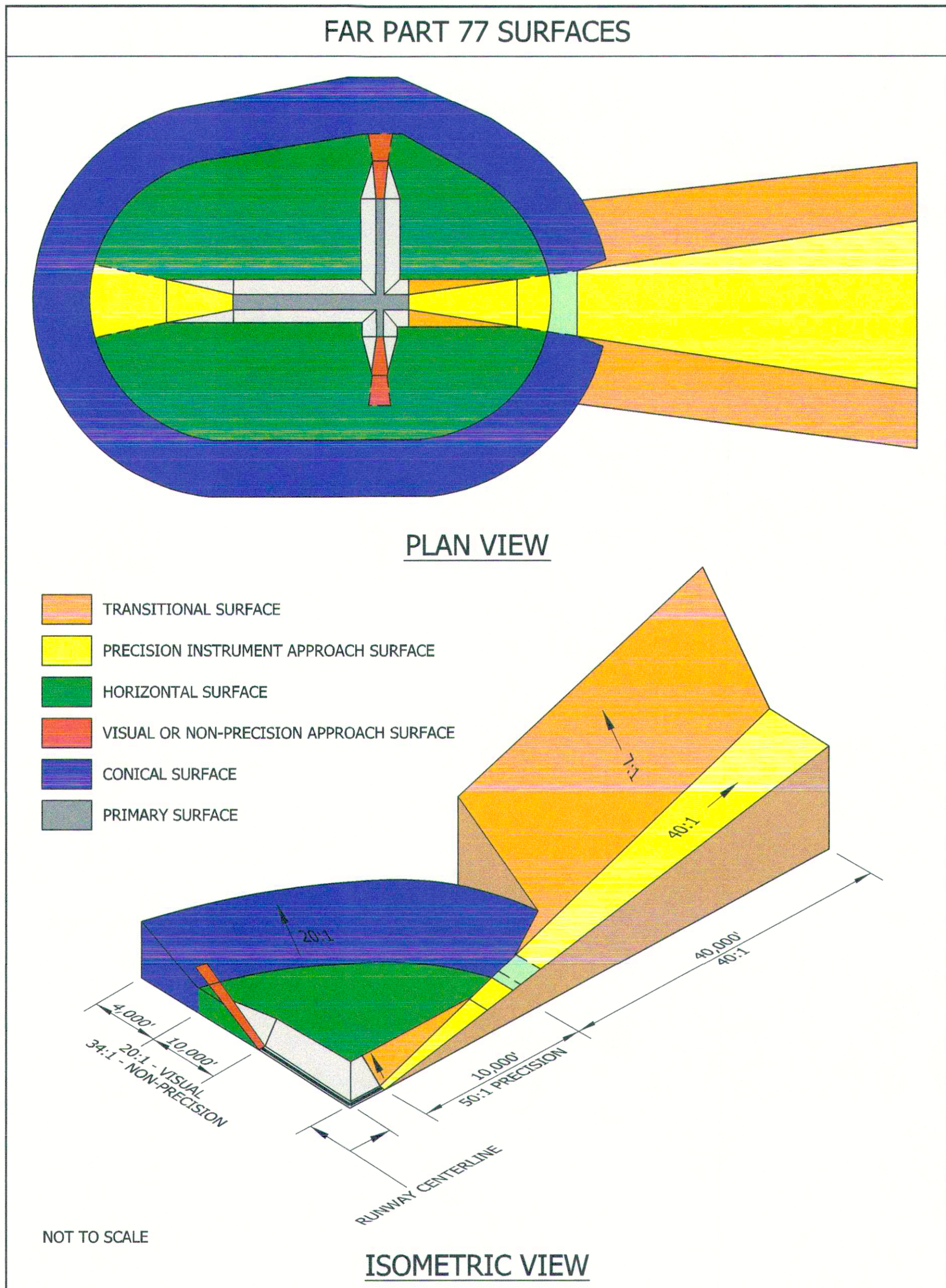
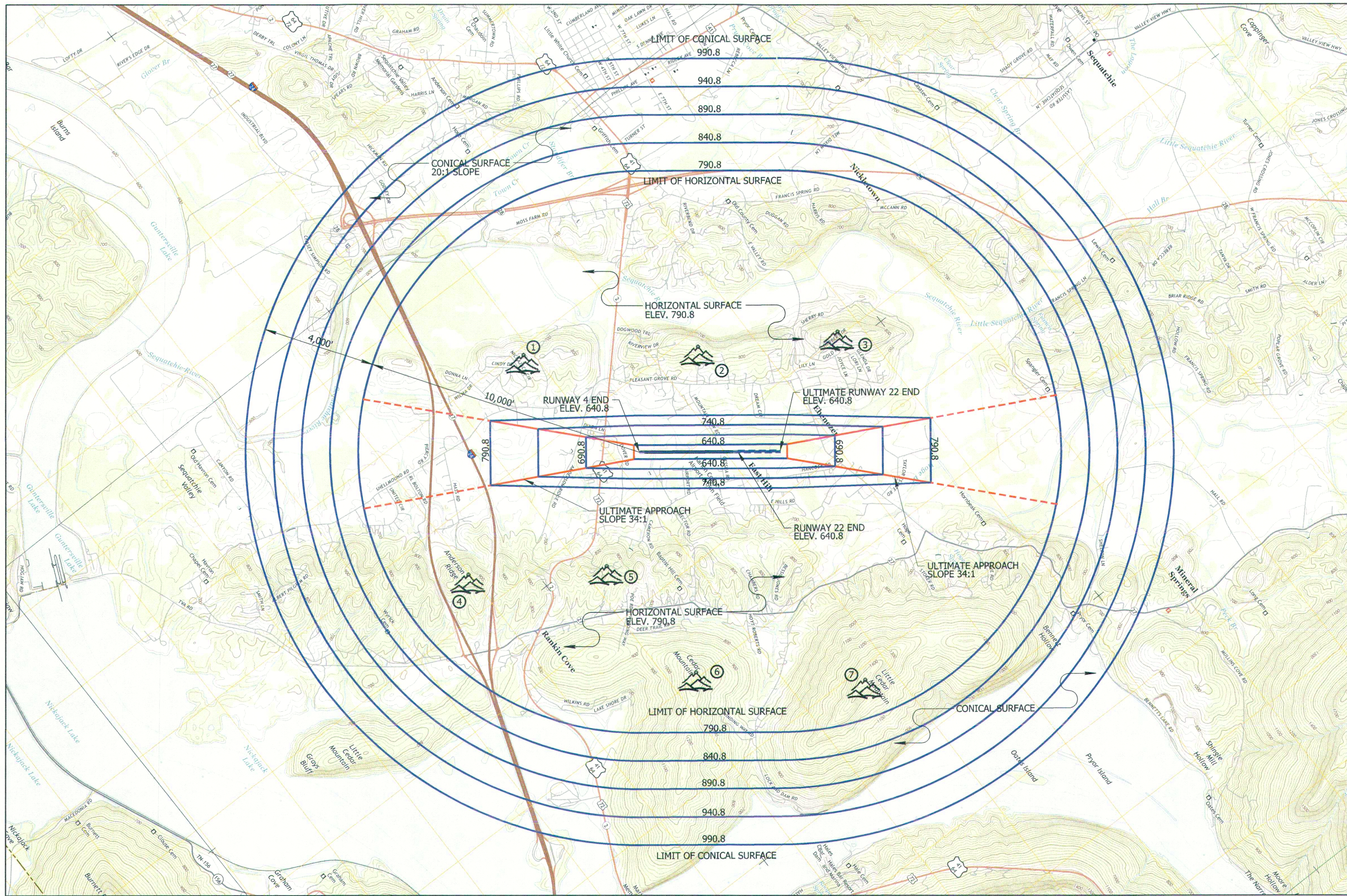
TO PROTECT OPERATIONAL SAFETY AND FUTURE DEVELOPMENT, ALL PROPOSED CONSTRUCTION ON THE AIRPORT MUST BE COORDINATED BY THE AIRPORT OWNER WITH THE FAA AIRPORTS DISTRICT OFFICE PRIOR TO CONSTRUCTION. FAA'S REVIEW TAKES APPROXIMATELY 60 DAYS.

No.	Revision	Date

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MARION COUNTY AIRPORT
JASPER, TENNESSEE
JOB NO: 71930
DATE: 10/18/2019 12:55:52 PM
DRAWN: TCJ
CHECKED: WTG
DGN FILE: C1.1 Airport Layout Plan.dgn

AIRPORT LAYOUT DRAWING
SHEET NUMBER
1 OF 8



LEGEND

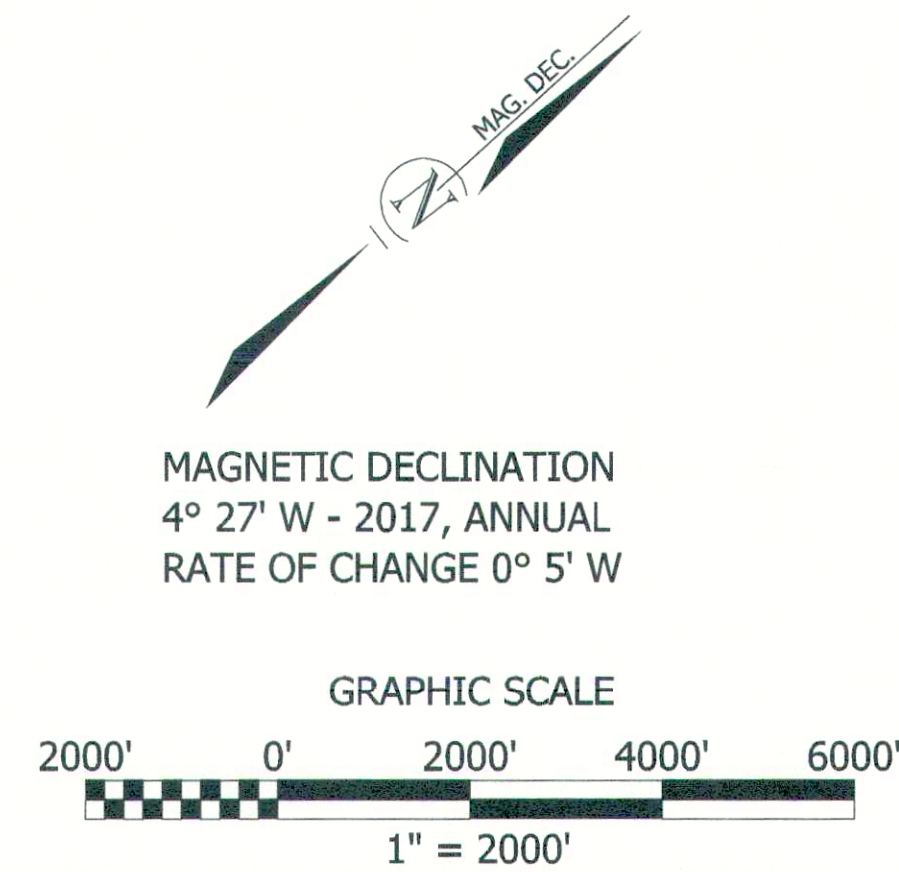
MOUNTAIN RANGE WITH OBSTRUCTION LIGHT

OBJECTS AFFECTING NAVIGATIONAL AIRSPACE						
NO.	DESCRIPTION	ELEVATION	PENETRATION	PROPOSED ACTION	LATITUDE	LONGITUDE
1	OBSTRUCTION LIGHT AT NICKAJACK CIRCLE	884.20	93.4 ±	NONE	N 35° 03' 14.06"	W 85° 36' 23.47"
2	OBSTRUCTION LIGHT AT INTERSTATE	1068.62	277.82 ±	NONE	N 35° 02' 10.92"	W 85° 35' 24.43"
3	36" BEACON NEAR HERBERT	979.22	188.42 ±	NONE	N 35° 04' 45.80"	W 85° 35' 07.96"
4	OBSTRUCTION LIGHT NEAR PLEASANT LANE	960.00	169.2 ±	NONE	N 35° 04' 03.98"	W 85° 35' 39.93"
5	OBSTRUCTION LIGHT AT PETE GRAHAM ROAD	1020.00	229.2 ±	NONE	N 35° 02' 50.91"	W 85° 34' 50.58"
6	OBSTRUCTION LIGHT AT ANDERSON RIDGE	1255.28	464.48 ±	NONE	N 35° 02' 52.26"	W 85° 33' 51.08"
7	OBSTRUCTION LIGHT AT ANDERSON RIDGE	1513.43	722.63 ±	NONE	N 35° 03' 37.31"	W 85° 33' 03.74"

* LOCATION CERTIFIED TO FAA 2C LOCATION STANDARDS (+/- 50'H & 20'V).

NOTE: DATE OF OBSTRUCTION SURVEY - OCTOBER, 2014.

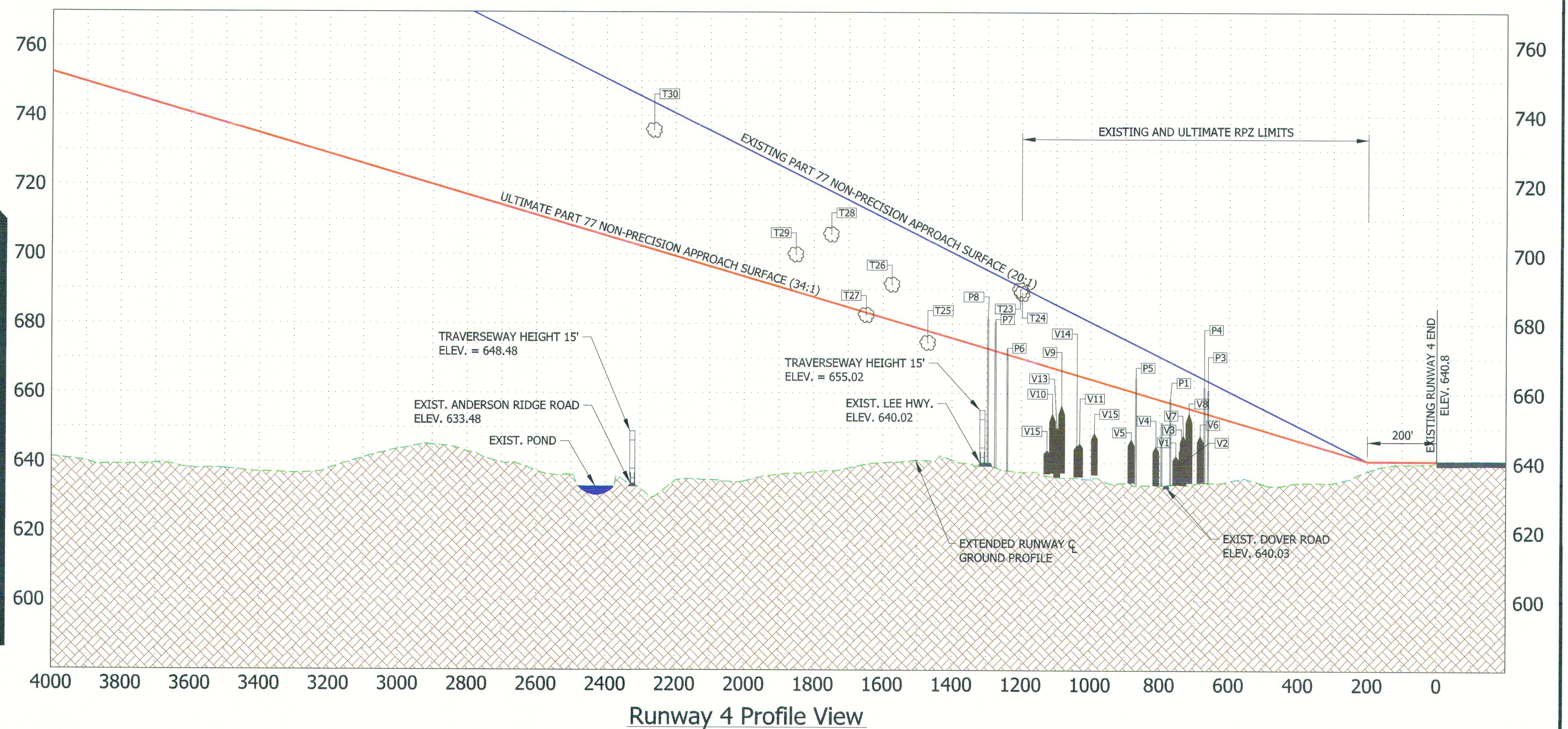
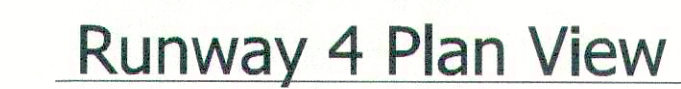
NOTE:
All property that is located in the vicinity of the Marion County Airport within or under the FAR Part 77 Surfaces are subject to the "Zoning Ordinance to Limit Height of Objects Around Marion County Airport - Brown Field" adopted by the Marion County Commission on November 24, 2014.



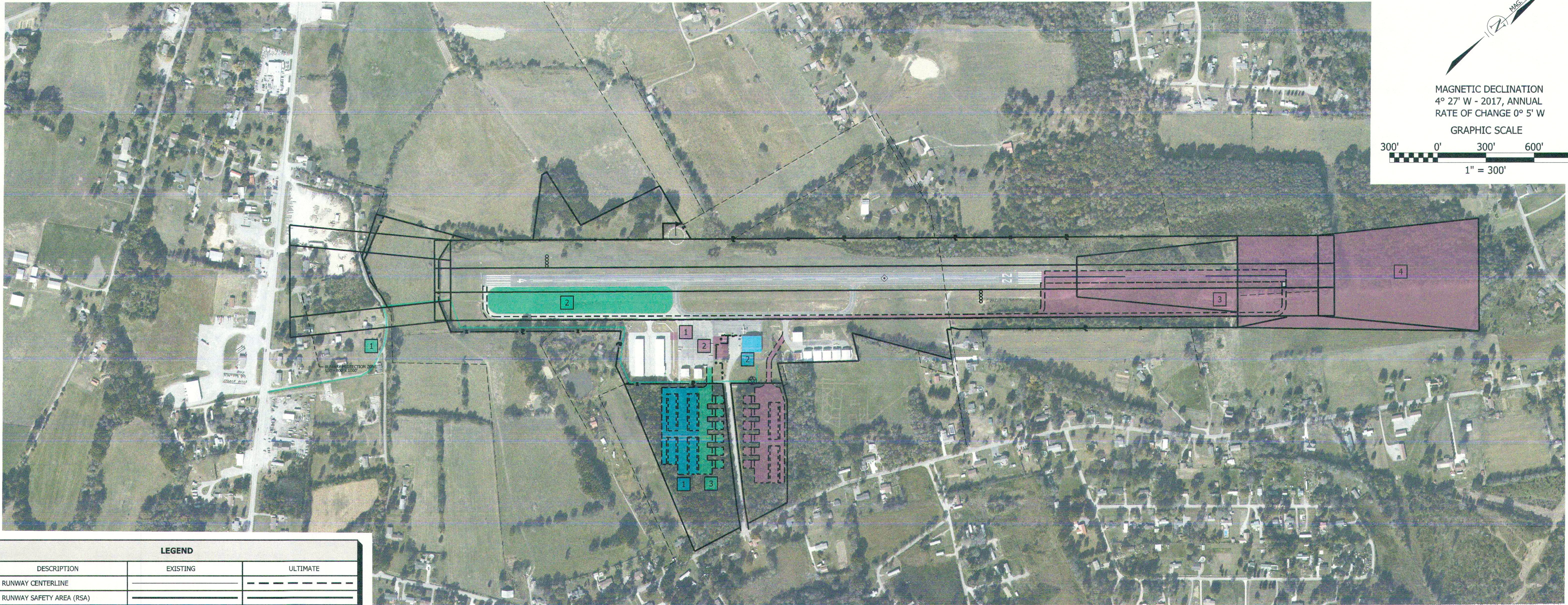
CONSTRUCTION NOTICE REQUIREMENT TO PROTECT OPERATIONAL SAFETY AND FUTURE DEVELOPMENT, ALL PROPOSED CONSTRUCTION ON THE AIRPORT MUST BE COORDINATED BY THE AIRPORT OWNER WITH THE FAA AIRPORTS DISTRICT OFFICE PRIOR TO CONSTRUCTION. FAA'S REVIEW TAKES APPROXIMATELY 60 DAYS.	<table><tr><td>No.</td><td>Revision</td><td>Date</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>	No.	Revision	Date										Allen & Hoshall engineering since 1915 1661 International Drive Memphis, TN 38120 901 820 0820 fax 901 683 1001 COPYRIGHT: Allen & Hoshall This document is proprietary to Allen & Hoshall and shall not be reproduced or used by others without prior written consent.	MARION COUNTY AIRPORT JASPER, TENNESSEE JOB NO: 71930 DATE: 10/18/2019 12:59:21 PM DRAWN: TCJ CHECKED: WTG DGN FILE: C1.3 Part77AirspaceDrawing.dgn	PART 77 AIRSPACE DRAWING	SHEET NUMBER 3 OF 8
No.	Revision	Date															

RUNWAY 22 OBSTRUCTIONS													
PART 77 SURFACE: APPROACH							AIRPORT ELEVATION = 641.2						
PART 77 SURFACE: 20:1 EXISTING & 34:1 ULTIMATE													
NO.	DESCRIPTION	GRND. ELEV.	TOP ELEV.	EXISTING PENETRATION	ULTIMATE PENETRATION	PROPOSED ACTION	NO.	DESCRIPTION	GRND. ELEV.	TOP ELEV.	EXISTING PENETRATION	ULTIMATE PENETRATION	PROPOSED ACTION
T23	GROUP OF TREES	634.6	690.0	0.0'	19.8'	REMOVE	V9	BUILDING	637.5	656.8	0.0'	0.0'	N.A.
T24	GROUP OF TREES	638.2	689.0	0.0'	19.0'	REMOVE	V10	BUILDING	638.6	654.4	0.0'	0.0'	REMOVE
T25	GROUP OF TREES	638.2	674.7	0.0'	0.0'	N.A.	V11	BUILDING	637.7	645.8	0.0'	0.0'	REMOVE
T26	GROUP OF TREES	638.1	691.5	0.0'	10.4'	REMOVE	V12	BUILDING	635.8	648.8	0.0'	0.0'	REMOVE
T27	GROUP OF TREES	636.6	682.7	0.0'	0.0'	N.A.	V13	BUILDING	634.7	650.4	0.0'	0.0'	REMOVE
T28	GROUP OF TREES	635.8	705.9	0.0'	19.6'	REMOVE	V14	BUILDING	633.1	645.0	0.0'	0.0'	N.A.
T29	GROUP OF TREES	635.8	700.1	0.0'	10.8'	REMOVE	V15	BUILDING	633.8	643.7	0.0'	0.0'	N.A.
T30	GROUP OF TREES	630.6	735.9	0.0'	34.5'	REMOVE	P1	POLE	632.3	658.5	0.0'	1.1'	LOWER
V1	BUILDING	632.4	642.2	0.0'	0.0'	N.A.	P2	POLE	632.6	655.8	0.0'	0.0'	N.A.
V2	BUILDING	631.8	639.8	0.0'	0.0'	N.A.	P3	POLE	636.9	655.5	0.0'	6.8'	RELOCATE
V3	BUILDING	632.1	645.1	0.0'	0.0'	N.A.	P4	POLE	638.4	661.8	0.0'	7.3'	RELOCATE
V4	BUILDING	633.3	645.0	0.0'	0.0'	REMOVE	P5	POLE	634.4	664.5	0.0'	4.1'	LOWER/ RELOCATE
V5	BUILDING	633.7	647.0	0.0'	0.0'	REMOVE	P6	POLE	635.5	672.7	0.0'	1.4'	LOWER
V6	BUILDING	637.5	648.1	0.0'	0.0'	N.A.	P7	POLE	640.5	680.8	0.0'	8.5'	RELOCATE
V7	BUILDING	638.7	648.2	0.0'	0.0'	N.A.	P8	POLE	641.0	681.4	0.0'	8.5'	RELOCATE
V8	BUILDING	637.8	654.7	0.0'	0.0'	N.A.							

MAGNETIC DECLINATION
4° 27' W - 2017, ANNUAL
RATE OF CHANGE 0° 5' W



5 OF 8



MAGNETIC DECLINATION
4° 27' W - 2017, ANNUAL
RATE OF CHANGE 0° 5' W

GRAPHIC SCALE

300' 0' 300' 600' 900'

1" = 300'

LEGEND

DESCRIPTION	EXISTING	ULTIMATE
RUNWAY CENTERLINE		
RUNWAY SAFETY AREA (RSA)		
RUNWAY OBJECT FREE AREA (ROFA)		
RUNWAY OBSTACLE FREE ZONE (ROFZ)		
RUNWAY PROTECTION ZONE (RPZ)		
TAXIWAY OBJECT FREE AREA (TOFA)		
TAXIWAY SAFETY AREA (TSA)		
BUILDING RESTRICTION LINE (BRL)		
PAVED RUNWAY SURFACE		
PAVED TAXIWAY SURFACE		
PAVED APRON SURFACE		
CONCRETE		
WINDSOCK		
AIRPORT REFERENCE POINT		
AIRPORT BUILDINGS		
OTHER BUILDINGS/STRUCTURES		
FACILITY IDENTIFICATION NUMBER	E1 B1	P1
AIRPORT PROPERTY LINE / EASEMENTS		
AIRPORT PROPERTY LINE W/ FENCE		
OTHER PROPERTY LINES		
FENCE		
RAILROAD		
ROADS		
TREE LINE		
WATER/WETLANDS		
GROUND ELEVATION CONTOURS		
PAPI		
RUNWAY/TAXIWAY LIGHTS		
ROTATING BEACON		

ESTIMATE OF PROBABLE COSTS
AIRPORT CAPITAL IMPROVEMENT PROJECTS

STAGE I
0 - 3 YEARS

PROJECT	DESCRIPTION	ESTIMATED COST
1	INSTALL FORCE MAIN TO CONNECT TO CITY SEWER SYSTEM ON HIGHWAY 2	\$ 200,000
2	DRAINAGE IMPROVEMENTS FROM INFELD OF RUNWAY 04 TO OUTFALL DITCH	\$ 85,000
3*	ADD APRON TO PROJECT FOR PRIVATELY OWNED BOX HANGARS	\$ 85,000

STAGE II
4 - 6 YEARS

PROJECT	DESCRIPTION	ESTIMATED COST
1*	T - HANGAR DEVELOPMENT, APRON & TAXILANE ACCESS	\$ 1,000,000
2	TERMINAL IMPROVEMENTS	\$150,000

STAGE III
7+ YEARS

PROJECT	DESCRIPTION	ESTIMATED COST
1	RELOCATE FUEL FARM APPROXIMATELY 330' SOUTHWEST FROM THE EXISTING LOCATION	\$ 100,000
2	NEW TERMINAL BUILDING	\$450,000
3	LAND ACQUISITION FOR RUNWAY AND TAXIWAY EXTENSION	\$
4	RUNWAY 22 AND TAXIWAY EXTENSION (250' TO NORTHEAST)	\$

* TRIGGERING EVENT
NEW BOX AND "T"- HANGAR DEVELOPEMENT TO OCCUR AS EXISTING HANGARS ARE OCCUPIED.

CONSTRUCTION NOTICE REQUIREMENT

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Runway 04 Infield Drainage Improvements

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT OF MEASURE	Unit Price	Total Price
1	Mobilization	1	LS	4000	\$4,000.00
2	RCP Pipe Installation	300	LF	140	\$42,000.00
3	Headwall	2	LS	5000	\$10,000.00
4	Asphalt Pavement Replacement	25	Ton	200	\$5,000.00
5	Stone pavement section	35	Ton	50	\$1,750.00
6	Unclassified excavation	200	CY	20	\$4,000.00

Subtotal: \$66,750.00
Contingency 10%: \$6,675.00
Construction Total: \$73,425.00

Engineering: \$11,013.75

Total: \$85,000.00

AVIATION ACTIVITY SUMMARY

BASED AIRCRAFT	30
CRITICAL AIRCRAFT	KING AIR B-100
AIRCRAFT	
SINGLE ENGINE	22
MULTI-ENGINE	0
JET	0
ULTRA-LIGHT	8
OPERATIONS BY CRITICAL AIRCRAFT	150
ESTIMATED ANNUAL OPERATIONS (YEAR/DAY)	8400/YR - 23/DAY
RUNWAY DESIGN CODE	B/1(S)
APPROACH REFERENCE CODE	B/1(S)/5000
DEPARTURE REFERENCE CODE	B/1(S)

Apron and Access to Land Lease Box Hangars

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT OF MEASURE	Unit Price	Total Price
1	Mobilization	1	LS	\$ 20,000.00	\$20,000.00
2	Unclassified excavation	3200	CY	\$ 15.00	\$48,000.00
3	Undercut	100	CY	\$ 50.00	\$5,000.00
4	Erosion Control	1	LS	\$ 5,000.00	\$5,000.00
5	Base Stone	2621	Ton	\$ 35.00	\$91,735.00
6	Prime Coat	1425	Gal	\$ 5.00	\$7,125.00
7	Base Asphalt	751	Ton	\$ 135.00	\$101,385.00
8	Tack Coat	475	Gal	\$ 3.00	\$1,425.00
9	Surface Asphalt	588	Ton	\$ 140.00	\$82,320.00

Subtotal: \$361,990.00
Contingency 10%: \$36,199.00
Construction Total: \$398,189.00

Engineering: \$59,728.35

Total: \$458,000.00

MARION COUNTY AIRPORT

JASPER, TENNESSEE

JOB NO: 71930

DATE: 10/18/2019 1:15:19 PM

DRAWN: TCJ

CHECKED: WTG

DGN FILE: C1.8 Capitol Improvement Plan.dgn

CAPITOL
IMPROVEMENT
PLAN

SHEET NUMBER

8 OF 8