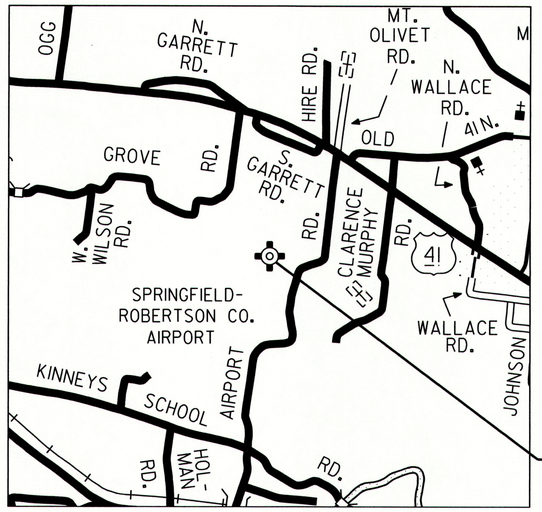
SPRINGFIELD ROBERTSON COUNTY AIRPORT
SPRINGFIELD, ROBERTSON COUNTY, TENNESSEE
AIRPORT LAYOUT PLAN
APRIL 2016

TENNESSEE AERONAUTICS DIVISION - PROJECT NUMBER 74-555-0749-04



SPRINGFIELD ROBERTSON COUNTY AIRPORT

LOCATION MAP

STATE OF TENNESSEE

BILL HASLAM
GOVERNOR

TENNESSEE DEPARTMENT OF TRANSPORTATION

JOHN SCHROER
COMMISSIONER

TDOT - AERONAUTICS DIVISION

WILLIAM ORELLANA
DIRECTOR

TOM BURGESS
CHIEF ENGINEER

BRIAN CALDWELL
CHIEF PLANNER

CITY OF SPRINGFIELD

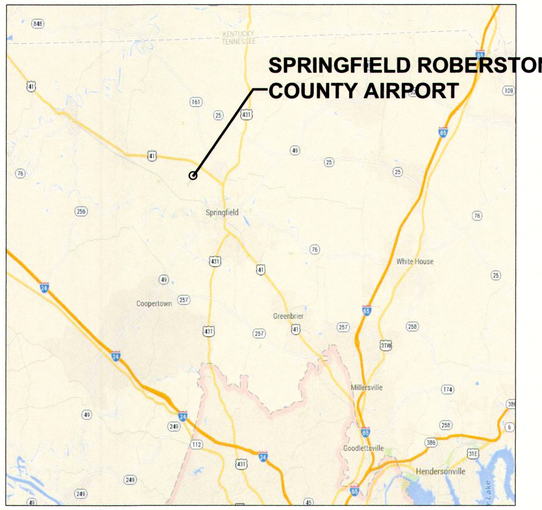
BILLY PAUL CARNEAL
MAYOR

ROBERTSON COUNTY

HOWARD BRADLEY
MAYOR

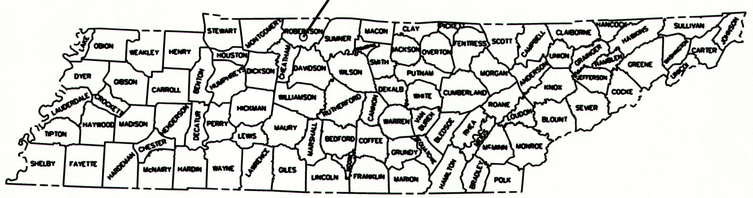
SPRINGFIELD ROBERTSON COUNTY AIRPORT

SAM CHITTY
CHAIRMAN



VICINITY MAP

SPRINGFIELD ROBERSTON COUNTY AIRPORT



COUNTY MAP

INDEX OF DRAWINGS

SHEET NO.	
1	COVER SHEET
2	AIRPORT LAYOUT DRAWING
3	AIRPORT AIRSPACE DRAWING
4	APPROACH SURFACE DRAWING
5	LAND USE DRAWING (EXISTING AND ULTIMATE)
6	AIRPORT CAPITAL IMPROVEMENT PLAN DRAWING
7	GOOD TITLE AND INVENTORY MAP (EXHIBIT 'A' PROPERTY MAP)

APPROVAL:

John Paul Saalwaechter — 6-1-18
~~TOM BURGESS~~ John Paul Saalwaechter — DATE
TDOT-DIVISION OF AERONAUTICS

Sam R. Chitty — 04-12-16
SAM CHITTY — DATE
SPRINGFIELD-ROBERTSON COUNTY AIRPORT AUTHORITY

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SPRINGFIELD ROBERTSON COUNTY AIRPORT
4432 AIRPORT ROAD
SPRINGFIELD, TENNESSEE 37172

SPRINGFIELD, ROBERTSON COUNTY, TENNESSEE

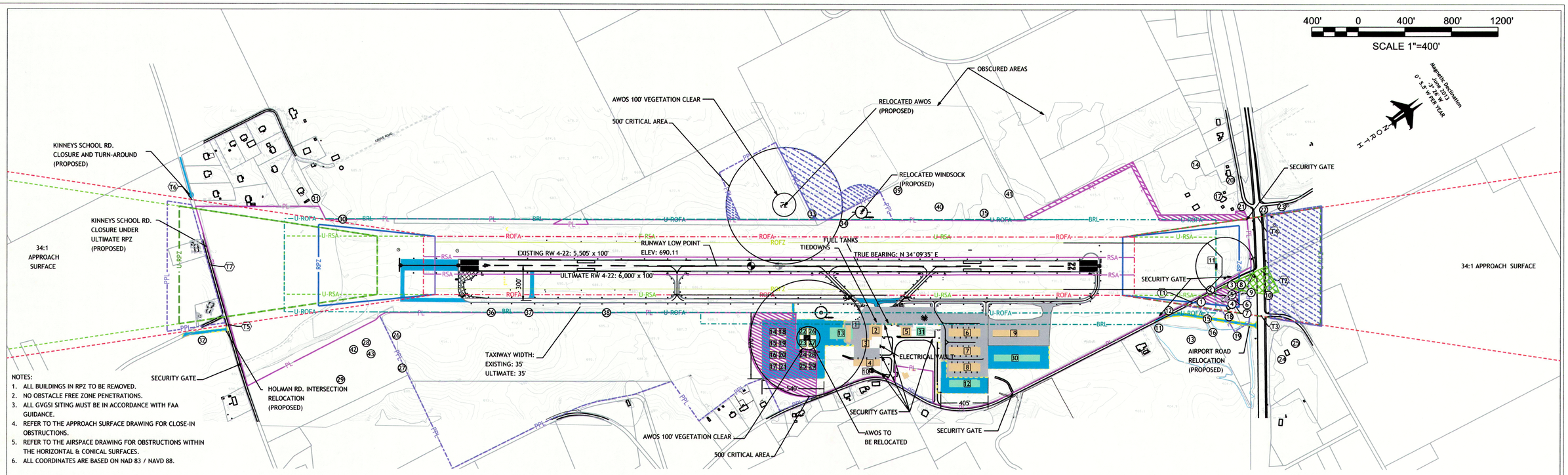
NO.	DATE	DESCRIPTION	APPROVED

TAD 74-555-0749-04
AIRPORT LAYOUT PLAN UPDATE

COVER SHEET

PROJECT NO:	26598
DRAWN BY:	RSC/PDH
DESIGNED BY:	CGD/BAN
CHECKED BY:	TAS
FILE NAME:	AIRPORT LAYOUT PLAN
DATE:	4/2016
SCALE:	AS SHOWN

SHEET 1 OF 7



NOTES:
1. ALL BUILDINGS IN RPZ TO BE REMOVED.
2. NO OBSTACLE FREE ZONE PENETRATIONS.
3. ALL GVGSI SITING MUST BE IN ACCORDANCE WITH FAA GUIDANCE.
4. REFER TO THE APPROACH SURFACE DRAWING FOR CLOSE-IN OBSTRUCTIONS.
5. REFER TO THE AIRSPACE DRAWING FOR OBSTRUCTIONS WITHIN THE HORIZONTAL & CONICAL SURFACES.
6. ALL COORDINATES ARE BASED ON NAD 83 / NAVD 88.

RUNWAY DATA TABLE

RUNWAY DATA	Runway 4 Existing	Runway 4 Ultimate	Runway 22 Existing	Runway 22 Ultimate
Effective Gradient (%)	0.1%	0.0%	0.1%	0.0%
Maximum Grade Change	1.43%	1.43%	1.43%	1.43%
Max. Elevation (MSL)			706.32	706.32
Runway Length	5,505'	6,000'	5,505'	6,000'
Runway Width	100'	100'	100'	100'
Usable Runway Length	5,505'	6,000'	5,505'	6,000'
Surface Type	Asphalt	Asphalt	Asphalt	Asphalt
Pavement Strength (lbs)				
Single Wheel	38,000	38,000	38,000	38,000
Dual Wheel	52,000	70,000	52,000	70,000
Runway Design Code (RDC)	B-II-5000	C-II-5000	B-II-5000	C-II-5000
Part 77 Approach Category	NPI	NPI	NPI	NPI
Instrument Approach Aids	LOCALIZER / LP	LOCALIZER/LPV	LPV	LPV
Approach Surface Slope	34:1	34:1	34:1	34:1
Approach Visibility Minimums	≥1 MILE	≥1 MILE	≥1 MILE	≥1 MILE
Visual Approach Aids	REILs, PAPIs	REILs, PAPIs	REILs, PAPIs	REILs, PAPIs
Runway Lighting	MIRLs	MIRLs	MIRLs	MIRLs
Taxiway Lighting	MITLs	MITLs	MITLs	MITLs
Runway Marking	Non-Precision	Non-Precision	Non-Precision	Non-Precision
Critical Aircraft	King Air 200	Gulfstream III	King Air 200	Gulfstream III
Runway End Coordinates, NAD 83				
Latitude	N 36°31'51.12"	N 36°31'47.03"	N 36°32'36.45"	N 36°32'36.45"
Longitude	W 086°55'38.00"	W 086°55'41.37"	W 086°55'00.65"	W 086°55'00.65"
Runway End Elevations, NAVD 88 (MSL)	700.54	704.20	706.32	706.32
TDZ Elevation (MSL)	700.54	704.20	706.32	706.32

RUNWAY RPZ / OFA / RSA DIMENSIONS

R/W		RPZ Length (L)	RPZ Inner Width (W_1)	RPZ Outer Width (W_2)	ROFA Width (Q)	ROFA Length (R)	RSA Width (C)	RSA Length (P)
4	Existing	1,000 FT.	500 FT.	700 FT.	500 FT.	300 FT.	150 FT.	300 FT.
4	Ultimate	1,700 FT.	500 FT.	1,010 FT.	800 FT.	1,000 FT.	500 FT.	1,000 FT.
22	Existing	1,000 FT.	500 FT.	700 FT.	500 FT.	300 FT.	150 FT.	300 FT.
22	Ultimate	1,700 FT.	500 FT.	1,010 FT.	800 FT.	1,000 FT.	500 FT.	1,000 FT.

TRAVERSE WAY

#	Elevation of 15' Vehicle on Roadway	Existing Approach Surface Elevation	Existing Penetration (-)/ Clearance (+)	Ultimate Penetration (-)/ Clearance (+)	Proposed Action
T1	727.47	724.75	-2.72	-2.72	RELOCATE ROAD
T2	725.20	765.55	40.35	40.35	NONE
T3	722.42	765.55	43.13	43.13	NONE
T4	729.47	765.55	36.08	36.08	NONE
T5	706.90	751.86	44.96	0.00	REMOVE
T6	705.28	763.46	58.18	0.00	REMOVE
T7	712.56	758.10	45.54	0.00	REMOVE

AIRPORT DATA

Airport Data	Existing	Ultimate
Airport Elevation (MSL)	706.32	706.32
Airport Reference Point (NAD 83)		
Latitude	N 36°32'13.79"	N 36°32'11.81"
Longitude	W 086°55'19.34"	W 086°55'20.95"
Mean Max. Temperature of Hottest Month	92° F	92° F
Airport Terminal Area NAVAIDS	Beacon, Wind Indicator w/Segmented Circle	Beacon, Wind Indicator w/Segmented Circle
Design Aircraft	King Air 200	Gulfstream III
Airport Reference Code	B-II (4-22)	C-II (4-22)
Magnetic Declination	3°53'W	0.1° Per Year
Airport Design Group	B-II	C-II
Taxiway Design Group	TDG-1B & TDG-2	TDG-1B & TDG-2
Runway Height Point	706.32	706.32

EXISTING FACILITIES

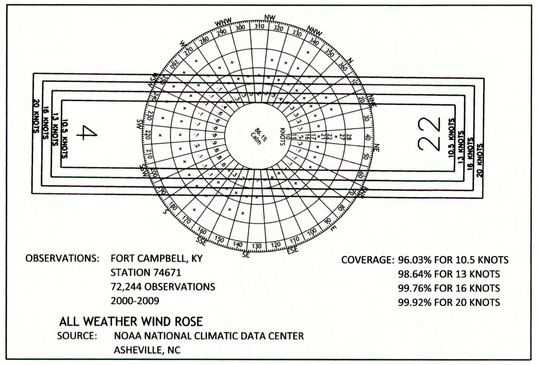
#	Facility Name	Top Elevation
1	T-Hangar	709.31
2	FBO-Hangar	725.2
3	Maintenance Hangar	713.8
4	Corporate Hangars	721.63
5	Storage Hangar/Future Terminal	716.83
6	T-Hangar	714.53
7	T-Hangar	719.16
8	T-Hangar	718.45
9	T-Hangar (58' x 396')	721
10	ADSB Tower	766
11	Localizer Runway '4' Approach	718.6

FUTURE FACILITIES

#	Facility Name	Top Elevation
12	T-Hangar (60' x 265')	717.25
13	FBO-Hangar (150' x 200')	710.25
14	Corporate Hangar (60' x 60')	710
15	Corporate Hangar (60' x 60')	710
16	Corporate Hangar (60' x 60')	710
17	Corporate Hangar (60' x 60')	710
18	Corporate Hangar (60' x 60')	710
19	Corporate Hangar (60' x 60')	710
20	Corporate Hangar (60' x 60')	710
21	Corporate Hangar (60' x 60')	710
22	Corporate Hangar (60' x 60')	710
23	Corporate Hangar (60' x 60')	710
24	Corporate Hangar (60' x 60')	710
25	Corporate Hangar (60' x 60')	710
26	Corporate Hangar (60' x 60')	710
27	Corporate Hangar (60' x 60')	710
28	Corporate Hangar (60' x 60')	710
29	Corporate Hangar (60' x 60')	710
30	T-Hangar (60' x 265')	717.25
31	Future Terminal/Storage Hangar	716.83

LEGEND

	EXISTING	ULTIMATE	TO BE REMOVED
Asphalt Pavement			
Concrete Pavement			
Buildings			
Precision Obstacle Free Zone (POFZ)			
Runway Safety Area (RSA)	RSA	U-RSA	
Runway Object Free Area (ROFA)	ROFA	U-ROFA	
Runway Protection Zone (RPZ)	RPZ	U-RPZ	
Localizer (LOC) Critical Area			
Ground Contours			
Fence			
Lighted Windcone and Segmented Circle			
Airport Weather Observation Station (AWOS)			
Edge Lights			
Threshold and Approach Lights			
Runway End Identifier Lights (REIL)			
Precision Approach Path Indicator (PAPI)			
Airport Beacon			
Airport Reference Point			
Airport Property Line	PL	PPL	
Airport Easements			
Runway End			
Tree Cutting Easement			
Part 77 34:1 Approach Limits			



OBSERVATIONS: FORT CAMPBELL, KY
STATION 74671
72,244 OBSERVATIONS
2000-2009

COVERAGE: 96.03% FOR 10.5 KNOTS
98.64% FOR 13 KNOTS
99.76% FOR 16 KNOTS
99.92% FOR 20 KNOTS

ALL WEATHER WIND ROSE
SOURCE: NOAA NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NC

OBSTRUCTIONS

Part 77 Surface: Non-Precision Approach
Part 77 Slope: 34 : 1

#	Description	Top Elevation	34:1 Penetration	Proposed Action
1	TREE	747.26	20.79	REMOVE
2	POLE	735.38	7.02	REMOVE
3	TREE	740.48	7.22	REMOVE
4	TREE	742.21	8.62	REMOVE
5	TREE	757.70	23.78	REMOVE
6	POLE	760.04	25.21	REMOVE
7	POLE	744.23	9.20	REMOVE
8	TREE	744.80	7.71	REMOVE
9	TREE	745.28	6.65	REMOVE
10	POLE	744.70	1.57	REMOVE

NOTE: THIS LIST OF OBSTRUCTIONS APPLIES ONLY TO FAR PART 77 AND IS NOT A COMPREHENSIVE LIST OF OBSTRUCTIONS REQUIRED FOR REMOVAL. A SEPARATE ANALYSIS OF OBSTRUCTION IS REQUIRED TO SATISFY THRESHOLD SITING OF RUNWAY APPROACH ENDS PER FAA AC 150/5300-13A TABLE 3-2.

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.

The approval of this Airport Layout Plan (ALP) represents acceptance of the general location of future facilities depicted. During the preliminary design phase, the airport owner is required to resubmit for approval the final locations, heights, and exterior finish of the structures. The concern is obstructions, impact on electronic aids, or adverse effects on controller view of aircraft approach and ground movement areas which could adversely affect safety, efficiency, or utility of the airport.

OBSTRUCTIONS

Part 77 Surfaces: Transitional
Part 77 Slope: 7:1

#	Description	Top Elevation	Existing Penetration	Proposed Action
11	TREE	785.91	42.95	REMOVE
12	POLE	732.14	6.81	LIGHTED
13	TREE	803.85	43.57	REMOVE
14	TREE	769.59	-4.16	REMOVE
15	TREE	760.09	29.80	REMOVE
16	TREE	798.48	46.12	REMOVE
17	TREE	763.27	5.49	REMOVE
18	TREE	762.72	23.50	REMOVE
19	TREE	784.80	26.89	REMOVE
20	TREE	783.78	4.92	REMOVE
21	TREE	772.35	28.27	REMOVE
22	POLE	746.60	5.96	LIGHT
23	POLE	750.62	6.56	LIGHT
24	TREE	807.91	23.82	REMOVE
25	TREE	784.89	36.09	REMOVE
26	POLE	751.69	2.79	LIGHT
27	TREE	787.83	-4.66	REMOVE
28	TREE	794.84	38.70	REMOVE
29	TREE	796.90	-7.77	REMOVE
30	TREE	718.89	-4.44	REMOVE
31	TREE	747.46	10.29	REMOVE
32	TREE	751.73	2.73	REMOVE
33	TREE	728.10	13.36	REMOVE
34	TREE	754.98	37.36	REMOVE
35	TREE	732.29	9.77	REMOVE
36	TREE	715.37	-5.44	REMOVE
37	TREE	717.82	-0.34	REMOVE
38	TREE	712.22	-1.70	REMOVE
39	TREE	792.61	42.63	REMOVE
40	TREE	778.63	45.68	REMOVE
41	TREE	790.71	52.85	REMOVE
42	TREE	799.6	28.60'	REMOVE
43	TREE	806.0'	22.50'	REMOVE

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SPRINGFIELD ROBERTSON COUNTY AIRPORT
4432 AIRPORT ROAD
SPRINGFIELD, TENNESSEE 37172

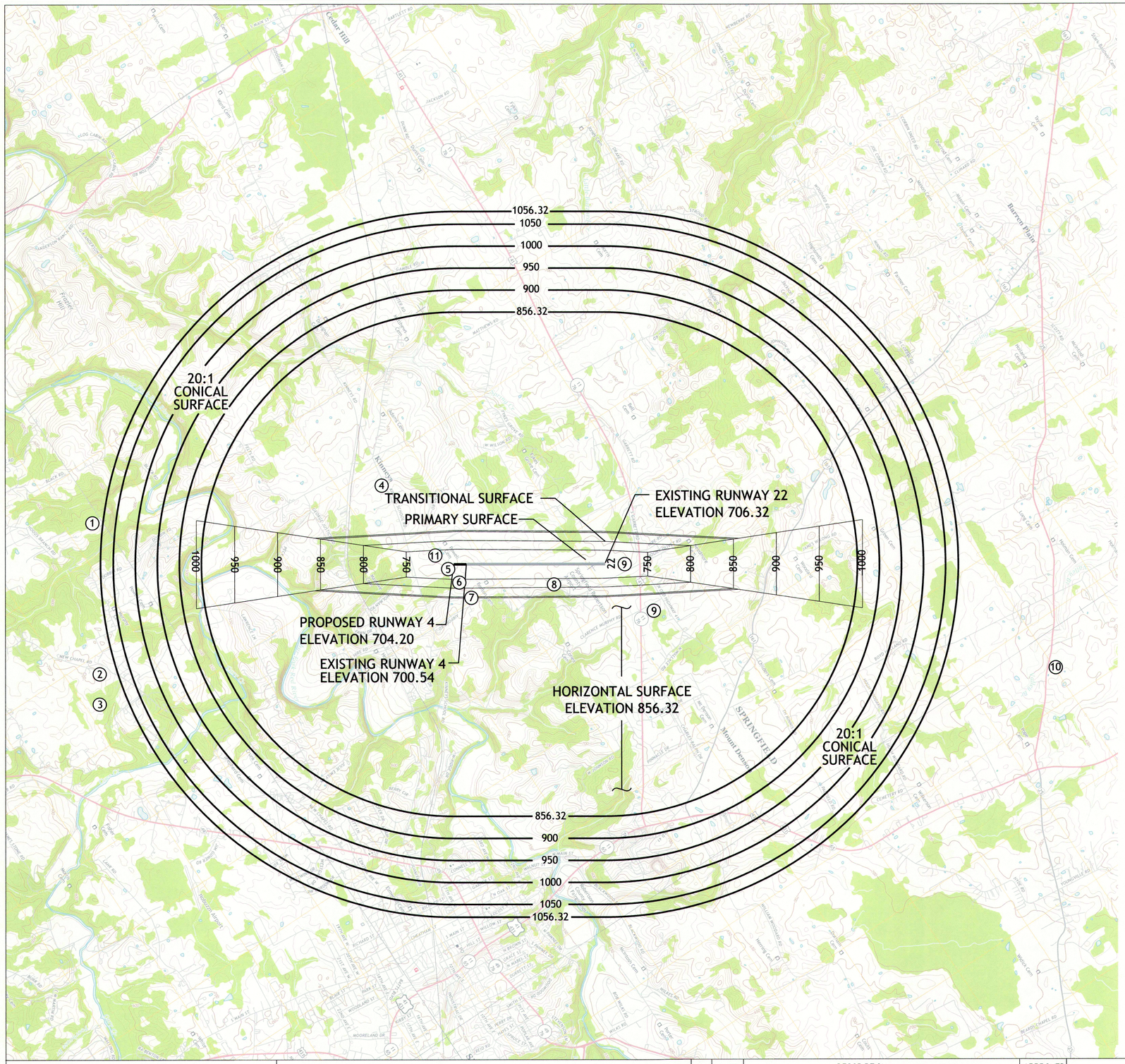
SPRINGFIELD, ROBERTSON COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 74-555-0749-04
AIRPORT LAYOUT PLAN UPDATE

AIRPORT LAYOUT DRAWING

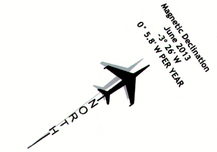
PROJECT NO:	26598
DRAWN BY:	RSC/PDH
DESIGNED BY:	CGD/BAN
CHECKED BY:	TAS
FILE NAME:	AIRPORT LAYOUT PLAN
DATE:	4/2016
SCALE:	AS SHOWN



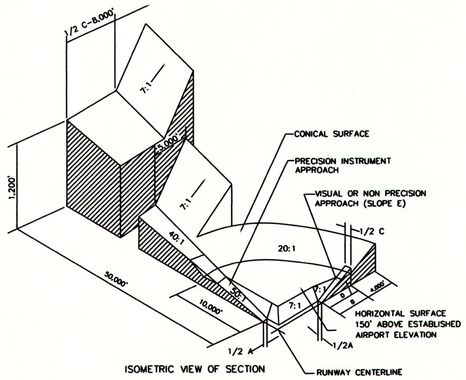
2000' 0 2000' 4000' 6000'

SCALE 1"=2000'

NOTES:
1. REFER TO THE AIRPORT LAYOUT PLAN AND APPROACH SURFACE DRAWING FOR CLOSE-IN OBSTRUCTIONS.
2. REFER TO THE CITY OF SPRINGFIELD MUNICIPAL CODE FOR HEIGHT RESTRICTIONS.
3. DATA FROM THE NATIONAL GEOGETIC SURVEY, 03-15-2011



OBSTRUCTIONS							
#	OBSTRUCTION	LATITUDE	LONGITUDE	ELEVATION (FEET AGL)	ELEVATION (FEET MSL)	PENETRATION	ACTION
1	Transmission Tower	36°29'42.72"N	86°57'37.47"W	129'	795'	0	N/A
2	Transmission Tower	36°29'21.75"N	86°56'42.64"W	140'	852'	0	N/A
3	Transmission Tower	36°29'16.94"N	86°56'31.48"W	157'	856'	0	N/A
4	Transmission Tower	36°31'36.70"N	86°56'12.24"W	48'	740'	0	N/A
5	Transmission Tower	36°31'41.76"N	86°55'32.36"W	35'	751.7'	2.79'	LIGHT
6	Transmission Tower	36°31'42.72"N	86°55'25.79"W	48'	750'	0	LIGHT
7	Transmission Tower	36°31'43.82"N	86°55'17.00"W	48'	750'	0	LIGHT
8	ADSB Antenna	36°32'13.68"N	86°55'1.68"W	66'	766'	0	LIGHT
9	Antenna	36°32'40.96"N	86°54'27.87"W	38'	768'	0	N/A
10	Transmission Tower	36°34'41.20"N	86°52'20.33"W	90'	750'	0	N/A
11	Transmission Tower	36°31'39.93"N	36°31'39.93"N	41'	735'	0	LIGHT



ISOMETRIC VIEW OF SECTION

DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A – UTILITY RUNWAYS
B – RUNWAYS LARGER THAN UTILITY
C – VISIBILITY MINIMUMS GREATER THAN 3/4 MILES
D – VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* – PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 Approach Surface FOR INNER 10,000 FEET AND 40:1 Approach Surface FOR AN ADDITIONAL 40,000 FEET

DENOTES RUNWAY 4-22 DIMENSIONAL STANDARDS

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NO.	DATE	DESCRIPTION	APPROVED

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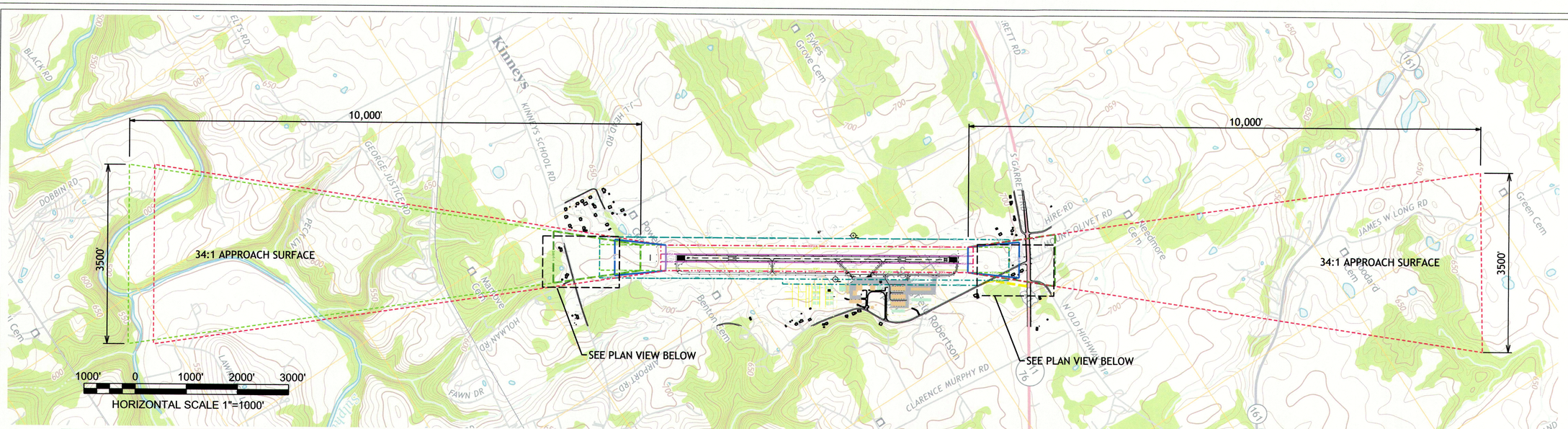
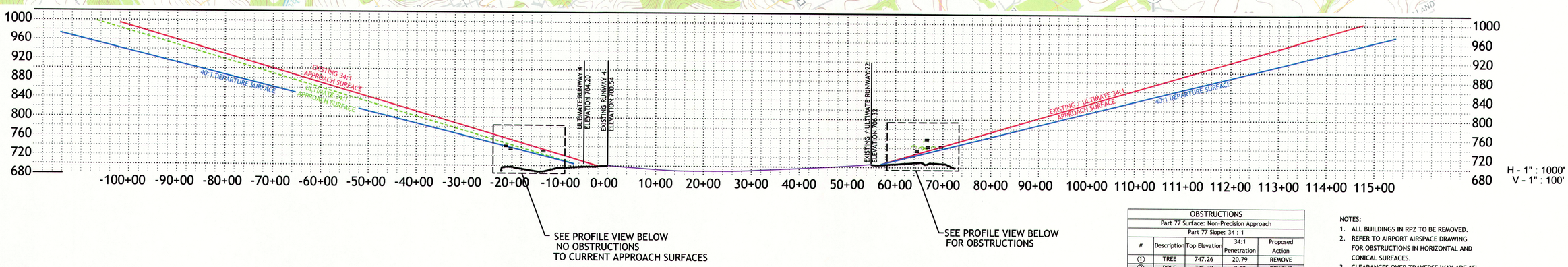
AIRPORT LAYOUT PLAN UPDATE

AIRPORT AIRSPACE DRAWING

PROJECT NO:	26598
DRAWN BY:	RSC/PDH
DESIGNED BY:	CGD/BAN
CHECKED BY:	TAS
FILE NAME:	AIRPORT LAYOUT PLAN
DATE:	4/2016
SCALE:	AS SHOWN





OBSTRUCTIONS				
Part 77 Surface: Non-Precision Approach				
Part 77 Slope: 34 : 1				
#	Description	Top Elevation	34:1 Penetration	Proposed Action
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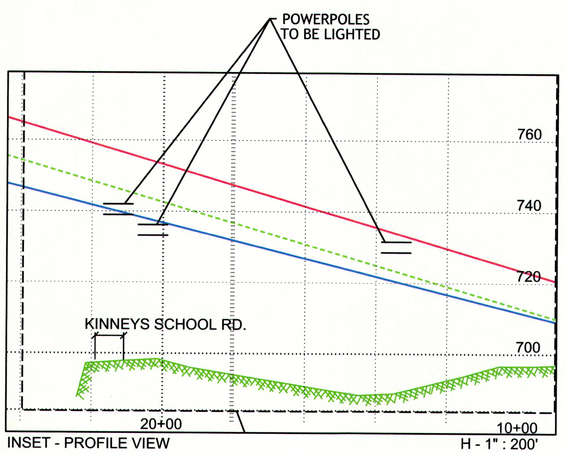
10	POLE	744.70	1.57	REMOVE

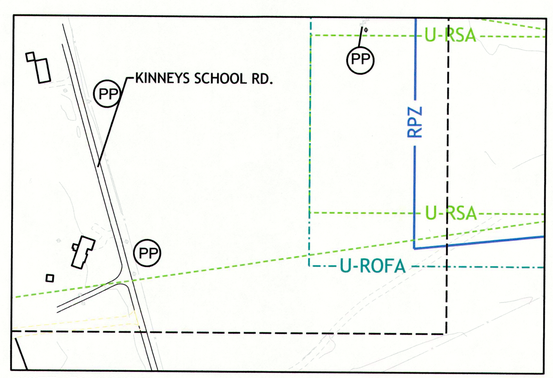
NOTES:
1. ALL BUILDINGS IN RPZ TO BE REMOVED.
2. REFER TO AIRPORT AIRSPACE DRAWING FOR OBSTRUCTIONS IN HORIZONTAL AND CONICAL SURFACES.
3. CLEARANCES OVER TRAVERSE WAY ARE 15' FOR PUBLIC ROADS AND 23' FOR RAILROADS.
4. DATE OF DATA COLLECTION: JULY, 2013

NOTE: THIS LIST OF OBSTRUCTIONS APPLIES ONLY TO FAR PART 77 AND IS NOT A COMPREHENSIVE LIST OF OBSTRUCTIONS REQUIRED FOR REMOVAL. A SEPARATE ANALYSIS OF OBSTRUCTION IS REQUIRED TO SATISFY THRESHOLD SITING OF RUNWAY APPROACH ENDS PER FAA 150/5300-13A TABLE 3-2.



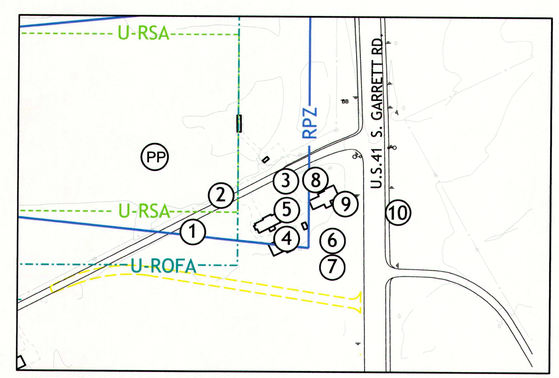
INSET - PROFILE VIEW

H - 1" : 200'
V - 1" : 20'



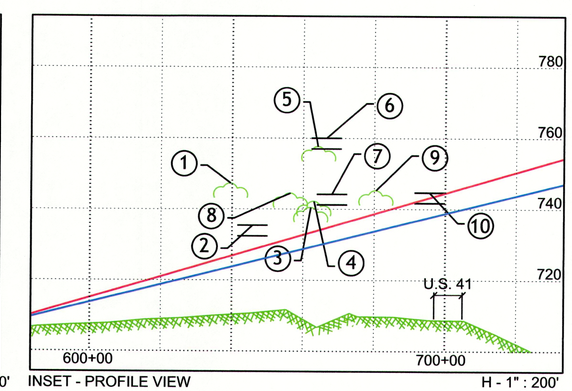
INSET - PLAN VIEW

1" : 200'



INSET - PLAN VIEW

1" : 200'



INSET - PROFILE VIEW

H - 1" : 200'
V - 1" : 20'

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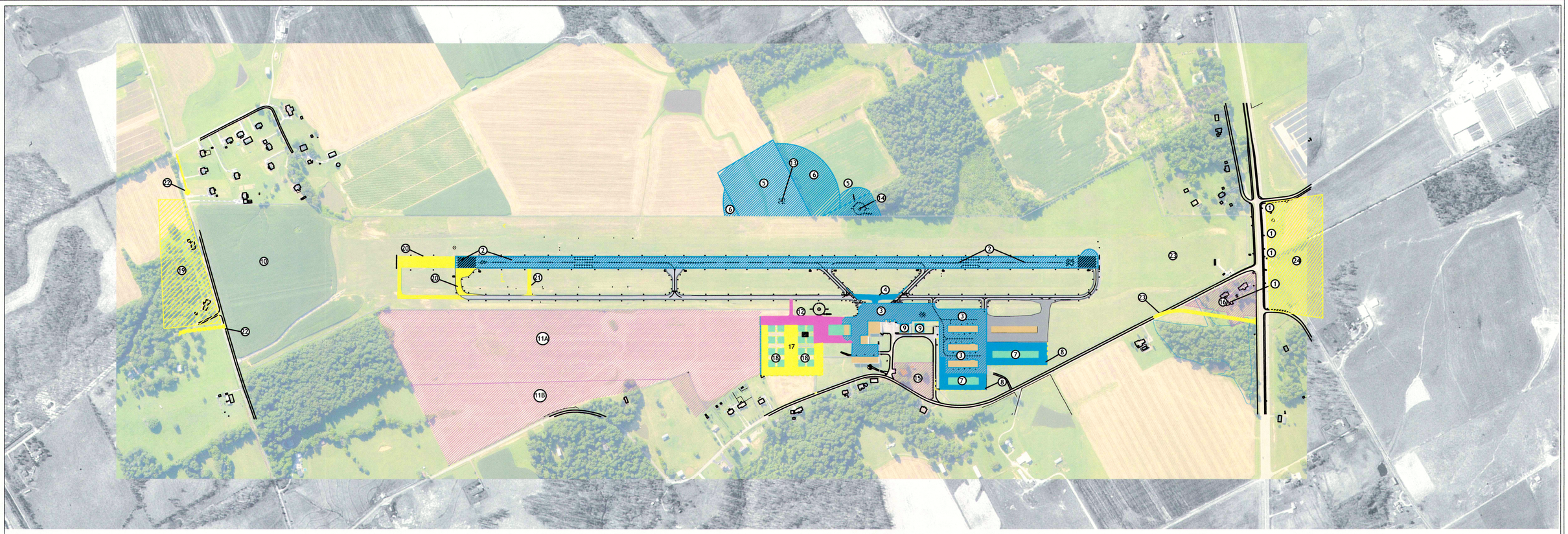
NO.	DATE	DESCRIPTION	APPROVED

TAD 74-555-0749-04
AIRPORT LAYOUT PLAN UPDATE

APPROACH SURFACE DRAWING

PROJECT NO:	26598
DRAWN BY:	RSC/PDH
DESIGNED BY:	CGD/BAN
CHECKED BY:	TAS
FILE NAME:	AIRPORT LAYOUT PLAN
DATE:	4/2016
SCALE:	AS SHOWN

SHEET 4 OF 7



400' 0 400' 800' 1200'

SCALE 1"=400'

PROPOSED CAPITAL IMPROVEMENT PLAN PROJECTS

	PROJECT	DESCRIPTION	ESTIMATED COST	COST BASIS YEAR
STAGE 1 (0-3 YEARS)				
1.)	Obstruction Removal	Remove or light obstrucitons to the 34 to 1 approach	$110,000	2014
2.)	Runway 4-22 Runway Reconstruction	FDR or Mill & Overlay runway to mitigate cracking and "fabirc" separation	$3,000,000	2014
3.)	Apron Reconstruction	Reconstruct apron using PCC to strengthen and enlarge the parking area	$2,000,000	2014
4.)	Extend Parallel Taxiway and Rehabilitate Angled Taxiway Connection	To comply with FAA AC 150/5300-13A, bullhorn taxiways need to be realigned to not provide direct access from the Apron to the Rwy	$500,000	2014
5.)	Land Acquisition (AWOS & Windsock Relocation)	Acquire land on the East side of the airport to relocate the AWOS & Windsock	$90,000	2014
6.)	Obtain Easement (AWOS Relocation)	Obtain the easement to provide 500' buffer zone for relocated AWOS	$50,000	2014
7.)	T-Hangars	Construct a 12-Unit T-Hangar and a 10 Unit T-Hangar (price for both)	$1,600,000	2014
8.)	Taxilanes and Aprons	Construct Taxilanes and Apron to access the T-Hangars	$900,000	2014
9.)	Terminal Building-FBO Hangar	Convert existing hangar into a Terminal or construct new Terminal Bldg.	$1,500,000	2014
10.)	LPV Approach to Runway 4	Install precision GPS instrument approach to ruwnay 4	$150,000	2014
STAGE 2 (4-6 YEARS)				
11A.)	Land Acquisition (For Future Airport Development-Airside)	Acquire land on the West side to develop into aviation use, such as hangars, taxiways, aprons, etc.	$250,000	2015
11B.)	Land Acquisition (For Future Airport Development-Landside Access)	Acquire land on the West side to develop into aviation use, such as hangars, taxiways, aprons, etc. with direct access to airport road	$250,000	2015
12.)	Apron Expansion	Construct apron to provide additional parking and connection to future development	$800,000	2015
13.)	Relocate AWOS	Relocate the AWOS to provide future development area on West side of airport	$75,000	2015
14.)	Relocate Windsock	Relocate windsock to provide future development area on West side of airport	$25,000	2015
15.)	Property Purchase	Purchase house and land at the airport entrance	$100,000	2015
16.)	Land Acquisition for Airport Road Relocation	Purchase property to realign airport road to relocate the road outside the RPZ	$200,000	2015
STAGE 3 (7+ YEARS)				
17.)	Corporate Hangar Taxilanes	Construct taxilanes for corporate hangars		N/A
18.)	Corporate Hangars	Construct coroporate hangars		N/A
19.)	Property Purchase for Future RPZ	Purchase property that will fall under the future RPZ to accommodate Rwy Ext.		N/A
20.)	Extend Runway and Taxiway	Extend the Runway and Parallel Taxiway another 500' to the south		N/A
21.)	Taxiway Connector	Construct connector taxiway to provide access to the runway once taxiway is removed with extension		N/A
22.)	Close Kinneys School Road	Close road under the Ultimate RPZ. Relocate Holman Road intersection East to provide access. Also, construct culdesac West of Ultimate RPZ at Kinneys School Road closure to maintain access for property owner and provide a "turn around".		N/A
23.)	Relocate Airport Road	Relocate airport road outside of the RPZ		N/A
24.)	Obtain airport easement	Obtain airport easement for RPZ Control		N/A

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SPRINGFIELD ROBERTSON COUNTY AIRPORT
4432 AIRPORT ROAD
SPRINGFIELD, TENNESSEE 37172

SPRINGFIELD, ROBERTSON COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION	APPROVED

TAD 74-555-0749-04
AIRPORT LAYOUT PLAN UPDATE

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