

Appendix E

AIRPORT PLANS



AIRPORT MASTER PLAN



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As part of this Master Plan, the Federal Aviation Administration (FAA) requires the development of Airport Layout Plan (ALP) drawings detailing specific parts of Grand Canyon National Park Airport (GCN or Airport) and its environs. The ALP drawings are created on a computer-aided drafting (CAD) system and serve as the official depiction of the current and planned condition at the Airport. The ALP drawings will be delivered to the FAA and Arizona Department of Transportation (ADOT) for their review and approval. The FAA will critique the drawings from a technical perspective to be sure all applicable federal regulations are met and will use the ALP as the basis for justification for funding decisions.

It should be noted that the FAA requires any changes to the airfield (i.e., runway and taxiway system, navigational aids, etc.) to be presented on the ALP. The landside configuration developed during the master planning process is also depicted on the ALP, but the FAA recognizes that landside development is much more fluid and dependent on developer needs. Thus, an updated ALP set is typically not necessary for future landside development.

The five primary functions of the ALP that define its purpose are provided in Advisory Circular (AC) 150/5070-6B, Airport Master Plans, as follows:

1) An approved plan is necessary for the Airport to receive financial assistance under the terms of the Airport and Airway Improvement Act of 1982 (AIP), as amended, and to be able to receive specific Passenger Facility Charge funding. An airport must keep its ALP current and follow that plan, since those are grant assurance requirements of the AIP and previous airport development programs, including the 1970 Airport Development Aid Program (ADAP) and Federal Aid Airports Program (FAAP) of 1946, as amended. While ALPs are not required for airports other than those developed with

assistance under the aforementioned federal programs, the same guidance can be applied to all airports.

- 2) An ALP creates a blueprint for airport development by depicting proposed facility improvements. The ALP provides a guideline by which the airport sponsor can ensure that development maintains airport design standards and safety requirements and is consistent with airport and community land use plans.
- 3) The ALP is a public document that serves as a record of aeronautical requirements, both present and future, and as a reference for community deliberations on land use proposals and budget resource planning.
- 4) The approved ALP enables the airport sponsor and the FAA to plan for facility improvements at the airport. It also allows the FAA to anticipate budgetary and procedural needs. The approved ALP will also allow the FAA to protect the airspace required for facility or approach procedure improvements.
- 5) The ALP can be a working tool for the airport sponsor, including its development and maintenance staff.

AIRPORT LAYOUT PLAN SET

The ALP set includes several technical drawings which depict various aspects of the current and future layout of the Airport. The following is a description of the ALP drawings included with this Master Plan.

AIRPORT LAYOUT PLAN DRAWING

An official ALP Drawing has been developed for GCN. The ALP Drawing graphically presents the existing and ultimate airport layout as well as data that corresponds to the airfield system. The ALP Drawing includes such elements as the physical airport features, location of airfield facilities (i.e., runways, taxiways, navigational aids), and existing aviation development. Also presented on the ALP Drawing are the runway safety areas, airport property boundary, and revenue support areas.

The computerized plan provides detailed information on existing and future facility layouts on multiple layers that permit the user to focus on any section of the Airport at a desired scale. The plan can be used as base information for design and can be easily updated in the future to reflect new development and more detail concerning existing conditions as made available through design surveys. The ALP Drawing is used by the FAA to determine funding eligibility for future capital projects.

TERMINAL AREA DRAWING

The Terminal Area Drawing is a larger scale plan view drawing of existing and planned aprons, buildings, hangars, parking lots, and other landside facilities.

AIRPORT AIRSPACE DRAWING

Title 14 Code of Federal Regulations (CFR) Part 77, Objects Affecting Navigable Airspace, was established for use by local authorities to control the height of objects near airports. The Part 77 Airspace Drawing is a graphic depiction of this regulatory criterion. The Airspace Drawing is a tool to aid local authorities in determining if proposed development could present a hazard to aircraft using the Airport. It can be a critical tool for the Airport sponsor's use in reviewing proposed development in the vicinity of the Airport and for establishing locally enforceable height and hazard zoning regulations.

The Airspace Drawing assigns three-dimensional imaginary surfaces associated with the Airport. These imaginary surfaces emanate from the runway centerline(s) and are dimensioned according to the visibility minimums associated with the approach to the runway end and size of aircraft to operate on the runway. The Part 77 imaginary surfaces include the primary surface, horizontal surface, approach surface, transitional surface, and conical surface.

Penetrations to the Part 77 surfaces are considered obstructions to the Airport's airspace. Further analysis by the FAA, through an aeronautical survey, is necessary to determine if any obstructions are hazards to air navigation. It should be noted that the Part 77 drawings are based on ultimate planning recommendations and not necessarily existing conditions.

APPROACH SURFACE PROFILE DRAWINGS

The Approach Surface Profile Drawings present the entirety of the Part 77 approach surface to the end of each runway. It also depicts the runway centerline profile with elevations. This drawing provides profile details that the Airspace Drawings do not.

The Approach Surface Profile Drawings include identified penetrations to the approach surface. Penetrations to the approach surface are considered obstructions. The FAA will determine if any obstructions are also hazards which require mitigation. The FAA utilizes other design criteria such as the threshold siting surface (TSS) and various surfaces defined in FAA Order 8260.3B, *Terminal Instrument Procedures* (TERPS), to determine if an obstruction is a hazard.

If an obstruction is a hazard, the FAA can take many steps to protect air navigation. The mitigation options range from the airport owner removing the hazard to installing obstruction lighting, to the FAA adjusting the instrument approach minimums.

The drawing set includes the following approach surface drawings:

- · Approach profile drawings for each runway end
- Inner portion of the approach surface drawings for each runway end

LAND USE DRAWING

The objective of the Land Use Drawing is to coordinate uses of the airport property in a manner compatible with the functional design of the airport facility. Airport land use planning is important for orderly development and efficient use of available space. There are two primary considerations for airport land use planning. These are to secure those areas essential to the safe and efficient operation of the airport and to determine compatible land uses for the balance of the property which would be most advantageous to the airport and community. In essence, this drawing depicts the suggested highest and best potential uses for airport property.

The Land Use Drawing presents generalized proposed uses of property for the future. The on-airport land uses on this drawing become the official FAA acceptance of current and future land uses. The map also depicts the existing and ultimate noise exposure limits set at the 65 Community Noise Equivalent Level (CNEL) sound level.

EXHIBIT "A" AIRPORT PROPERTY INVENTORY MAP

The Airport Property Map provides information on property under airport control and is, therefore, subject to FAA grant assurances. The various recorded deeds that make up the airport property are listed in tabular format. The primary purpose of the drawing is to provide information for analyzing the current and future aeronautical use of land acquired with federal funds.

DEPARTURE SURFACE DRAWING

The Departure Surface Drawing provides detailed analysis of the existing and ultimate departure surface for each corresponding runway end. A composite profile of the extended ground line is depicted. Obstructions are shown where appropriate.

DRAFT ALP DISCLAIMER

The preparation of the ALP set has been supported, in part, through financial assistance from the FAA through the Airport Improvement Program (AIP). The contents do not necessarily reflect the official views or policy of the FAA. Acceptance of the Master Plan does not in any way constitute a commitment on the part of the FAA to participate in any development depicted on the ALP drawings, nor does it indicate that the proposed development is environmentally acceptable or would have justification in accordance with appropriate public laws.

The ALP drawing set has been developed in accordance with accepted FAA standards. The ALP set has not been approved at the time of this printing and is subject to FAA airspace reviews. Land use and other changes may result.



LOCATION MAP





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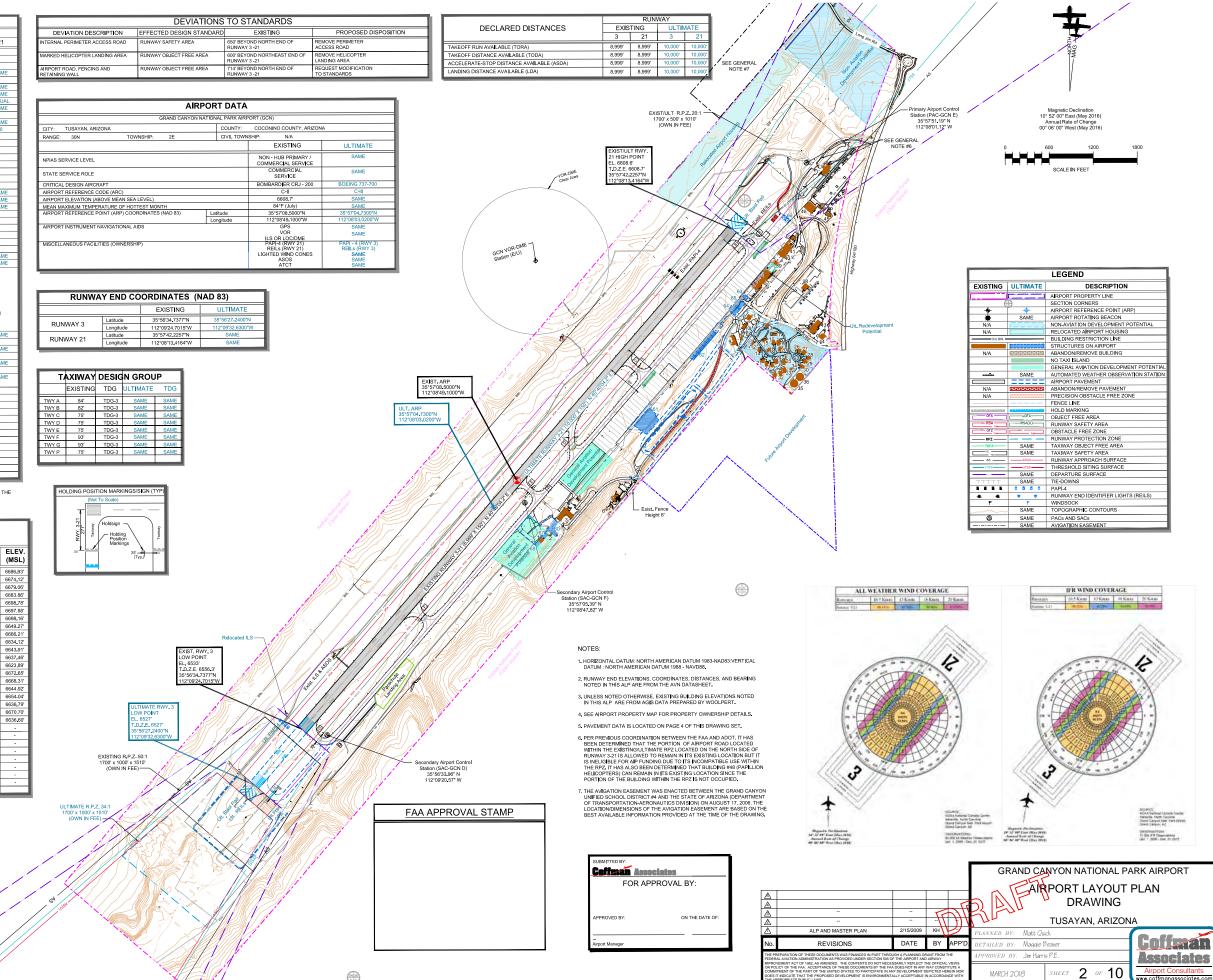


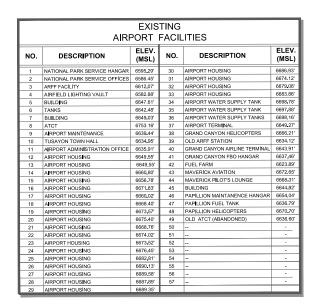


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RUNWAY AME AME AME TAXI EXI TWY A TWY B TWY C TWY O TWY C	RUNWAY 3 RUNWAY 21 TAXIWA EXISTIN WYA 84' WYB 82' WYB 75'		END OF	ODDINATEO	(NIAD 00)			
RUNWAY AME AME AME TAXI EXI TWY A TWY B TWY C TWY C	TAXIWA EXISTIN WYA 84' WYB 82' WYC 75'	UNWAY	END CC	ORDINATES	(NAD 83)	_		
RUNWAY AME AME AME TAXI EXI TWY A TWY B TWY C TWY C	TAXIWA EXISTIN WYA 84' WYB 82' WYC 75'			EXISTING	ULTIMA	VTE .		
AME RUNWAY AME AME TAXI EXI TWY A TWY B TWY C TWY O TWY O	TAXIWA EXISTIN WYA 84' WYB 82' WYC 75'	. La	.atitude	35°56'34.7377"N	35°56'27.2	400"N		
AME AME TAXI EXI: TWY A TWY B TWY C TWY O TWY O	TAXIWA EXISTIN WY A 84' WY B 82' WY C 75'	r 3 Lo	ongitude.	112°09'24.7015"W	112°09'32.6			
AME AME TAXI EXI TWY A TWY B TWY C TWY O TWY O	TAXIWA EXISTIN WY A 84' WY B 82' WY C 75'	21	atitude	35°57'42.2257*N	SAME			
AME TAXI EXI TWY A TWY B TWY C TWY D TWY C	EXISTIN WY A 84' WY B 82' WY C 75'	Lo	.ongitude	112°08'13,4164"W	SAME			
TAXI EXII TWY B TWY C TWY D TWY E	EXISTIN WY A 84' WY B 82' WY C 75'							
TWY A TWY B TWY C TWY D TWY E	EXISTIN WY A 84' WY B 82' WY C 75'							
TWY A TWY B TWY C TWY D TWY E	EXISTIN WY A 84' WY B 82' WY C 75'	WAYDE	SIGNIC	POLID				
TWY A TWY B TWY C TWY D TWY E	WY A 84' 'WY B 82' WY C 75'							
TWY B TWY C TWY D TWY E	WY B 82' WY C 75'	STING TE	DG ULTI	MATE TDG				
TWY B TWY C TWY D TWY E	WY B 82' WY C 75'	84' TD	0G-3 S/	AME SAME				
TWY D TWY E		82' TD	0G-3 S/	AME SAME				
TWY E								
			DG-3 S/					
				AME SAME				
_								
— II 🖸		TWY A TWY B TWY C TWY D TWY E TWY F TWY G TWY P	TWY A 84' TI TWY B 82' TI WY C 75' TI TWY C 75' TI TWY D 75' TI TWY F 93' TI TWY F 93' TI TWY P 75' TI TWY P 75' TI TWY P 75' TI TWY P 75' TI	TWY A 84' TDG-3 S/1 TWY B 82' TDG-3 S/1 TWY B 82' TDG-3 S/1 TWY C 75' TDG-3 S/1 TWY D 75' TDG-3 S/1 TWY D 75' TDG-3 S/1 TWY E 75' TDG-3 S/1 TWY E 93' TDG-3 S/1 TWY P 75' TDG-3 S/1 TWY P 75' TDG-3 S/1 TWY P 75' TDG-3 S/1	TWY A	TWY A	TWY A	TWY A 84' TDG-3 SAME SAME TWY B 82' TDG-3 SAME SAME TWY G 75' TDG-3 SAME SAME TWY D 75' TDG-3 SAME SAME TWY D 75' TDG-3 SAME SAME TWY F 93' TDG-3 SAME SAME TWY P 75' TDG-3 SAME SAME TWY P 75' TDG-3 SAME SAME

Г	EXISTING AIRPORT FACILITIES								
NO.	DESCRIPTION	ELEV. (MSL)	NO.	DESCRIPTION	ELEV. (MSL)				
1	NATIONAL PARK SERVICE HANGAR	6595.29'	30	AIRPORT HOUSING	6686.93'				
2	NATIONAL PARK SERVICE OFFICES	6586.45'	31	AIRPORT HOUSING	6674.12"				
3	ARFF FACILITY	6612,07'	32	AIRPORT HOUSING	6679.06"				
4	AIRFIELD LIGHTING VAULT	6582,88'	33	AJRPORT HOUSING	6683.86"				
5	BUILDING	6647.61'	34	AIRPORT WATER SUPPLY TANK	6698,78"				
6	TANKS	6642.48'	35	AIRPORT WATER SUPPLY TANK	6697.88"				
7	BUILDING	6649.03'	36	AIRPORT WATER SUPPLY TANKS	6698.16'				
8	ATCT	6753.16"	37	AIRPORT TERMINAL	6649.27'				
9	AIRPORT MAINTENANCE	6639,44'	38	GRAND CANYON HELICOPTERS	6666.21'				
10	TUSAYON TOWN HALL	6634.95	39	OLD ARFF STATION	6634.12'				
11	AIRPORT ADMINASTRATION OFFICE	6635.91"	40	GRAND CANYON AIRLINE TERMINAL	6643.91				
12	AIRPORT HOUSING	6649.55'	41	GRAND CANYON FBO HANGAR	6637.46				
13	AIRPORT HOUSING	6649.55'	42	FUEL FARM	6623,89'				
14	AIRPORT HOUSING	6660.80'	43	MAVERICK AVIATION	6672.65				
15	AIRPORT HOUSING	6656.78'	44	MAVERICK PILOT'S LOUNGE	6668.31'				
16	AIRPORT HOUSING	6671.83	45	BUILDING	6644.92'				
17	AIRPORT HOUSING	6660.02'	46	PAPILLION MAINTANENCE HANGAR	6654.04				
18	AIRPORT HOUSING	6668.40	47	PAPILLION FUEL TANK	6636.79				
19	AIRPORT HOUSING	6673.57	48	PAPILLION HELICOPTERS	6670.70'				
20	AIRPORT HOUSING	6675.40	49	OLD ATCT (ABANDONED)	6636.60'				
21	AIRPORT HOUSING	6668.76	50	-					
22	AIRPORT HOUSING	6674.02	51	-	-				
23	AIRPORT HOUSING	6673.52	52	-	-				
24	AIRPORT HOUSING	6676.45	53	-	-				
25	AIRPORT HOUSING	6682.81	54	-	-				
26	AIRPORT HOUSING	6690.13'	55	-	-				
27	AIRPORT HOUSING	6689.58'	56	-					
28	AIRPORT HOUSING	6687.89'	57		-				
29	AIRPORT HOUSING	6689.35'							

,	ULTIMATE AIRPORT FACILITI	ES
NO.	DESCRIPTION	Est. ELEV. (MSL)
60	MAINTENANCE FACILITY	±6595.00"
61	AIRPORT TERMINAL	±6640,00°
62	8 LINEAR BOX HANGARS	±6630.00°
63	FUEL FARM (SELF SERVICE)	±6625.00"
64	CONVENTIONAL HANGAR	±6637,00°
65	CONVENTIONAL HANGAR	±6637,00°
66	HELICOPTER PARKING	NA
67	EXECUTIVE HANGAR	±6580'
68	EXECUTIVE HANGAR	±6581'





| ULTIMATE | AIRPORT FACILITIES | NO. | DESCRIPTION | ELEV. (MSL) | 60 | MAINTENANCE FACILITY | 1:6595.00 | 1:1 | AIRPORT TERMINAL | 1:6630,000 | 6:2 | 8 LINEAR BOX HANGARS | 1:6530.00 | 6:4 | CONVENTIONAL HANGAR | 1:6537.00' | 6:5 | CONVENTIONAL HANGAR | 1:6537.00' | 6:5 | EXECUTIVE HANGAR | 1:6581.00' | 6:5 | EXECUTIVE HANGAR | 1:6581' | 1:5581.00' | EXECUTIVE HANGAR | 1:6581' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00' | 1:5581.00'

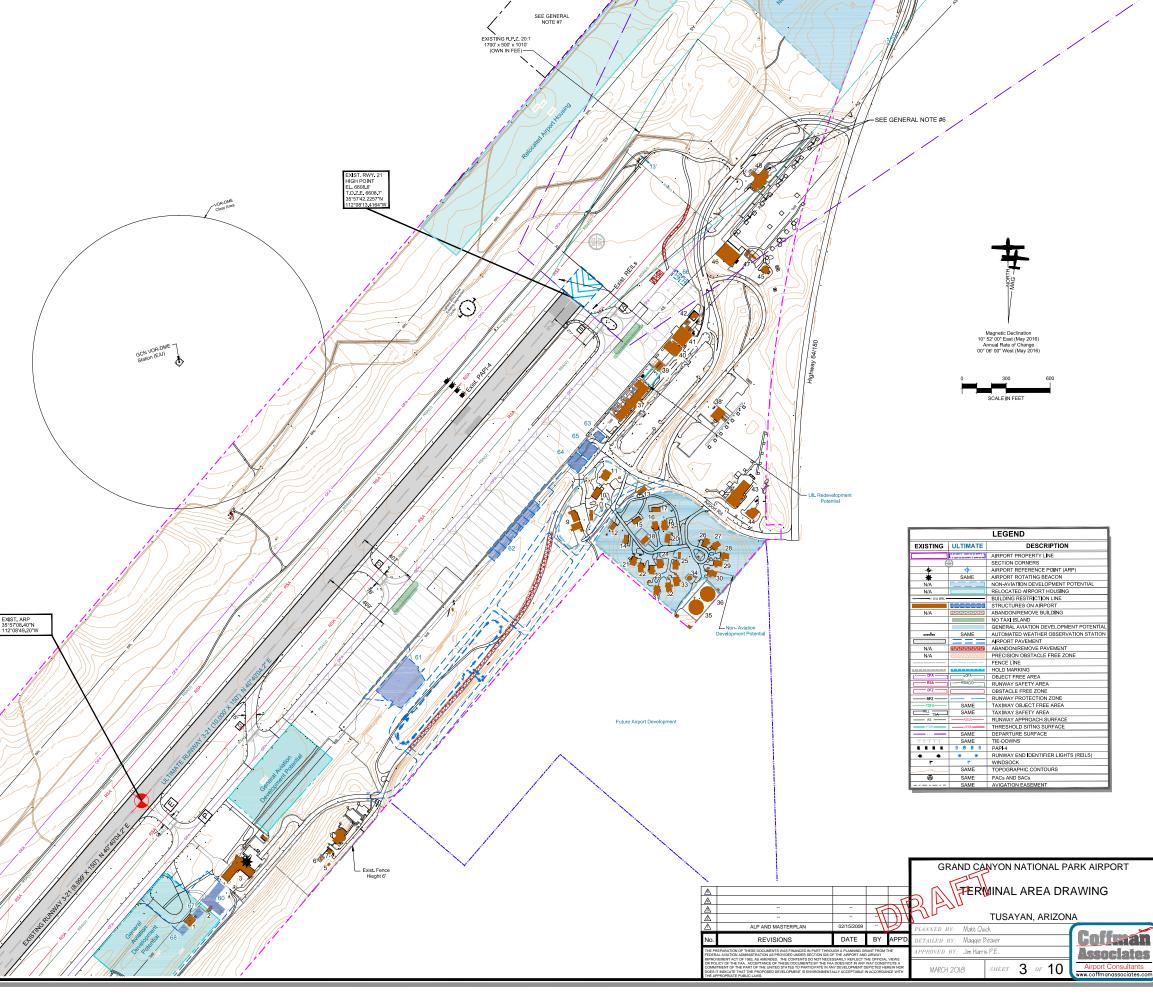


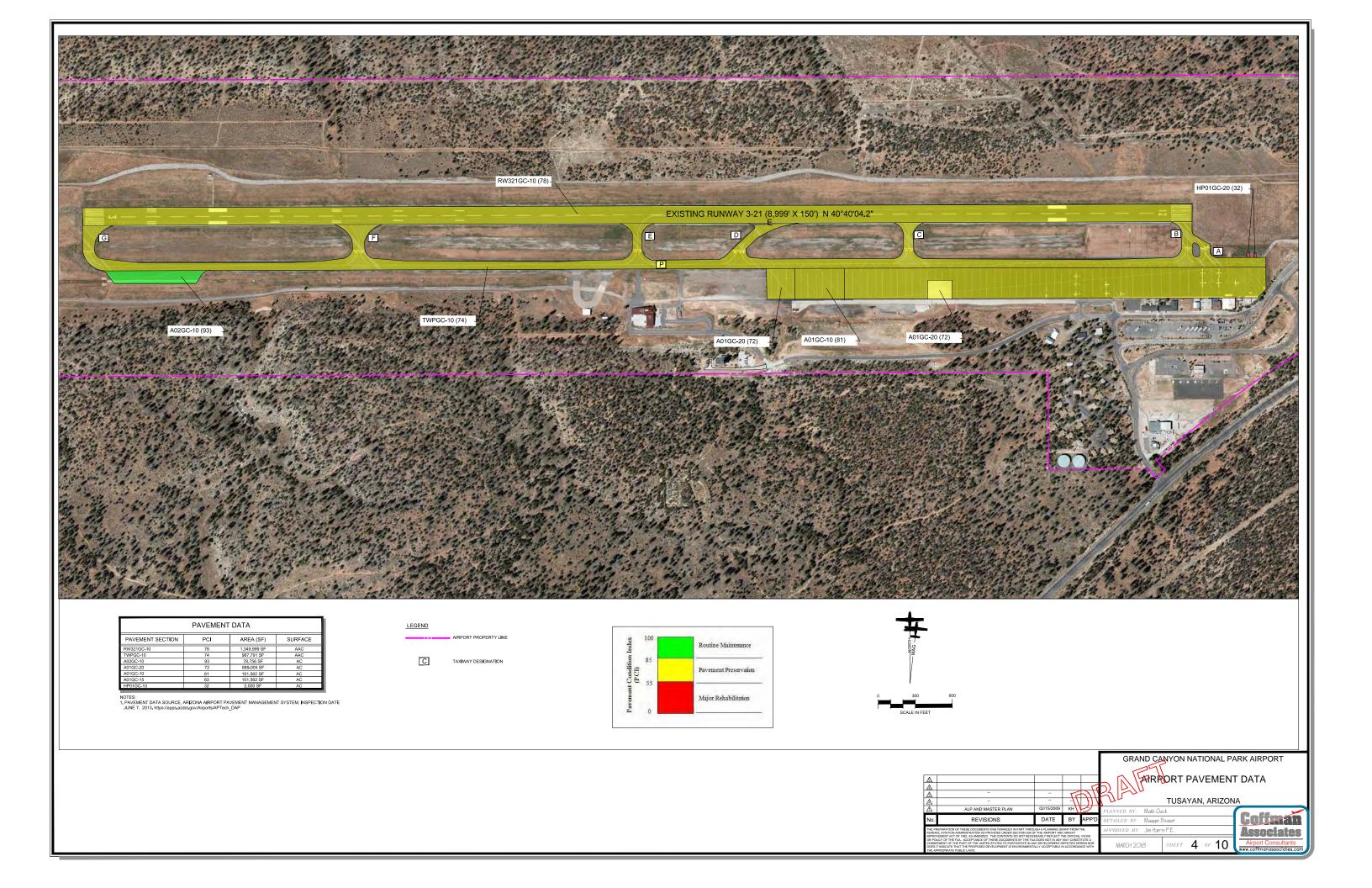
5. PAVEMENT DATA IS LOCATED ON PAGE 4 OF THIS DRAWING SET.

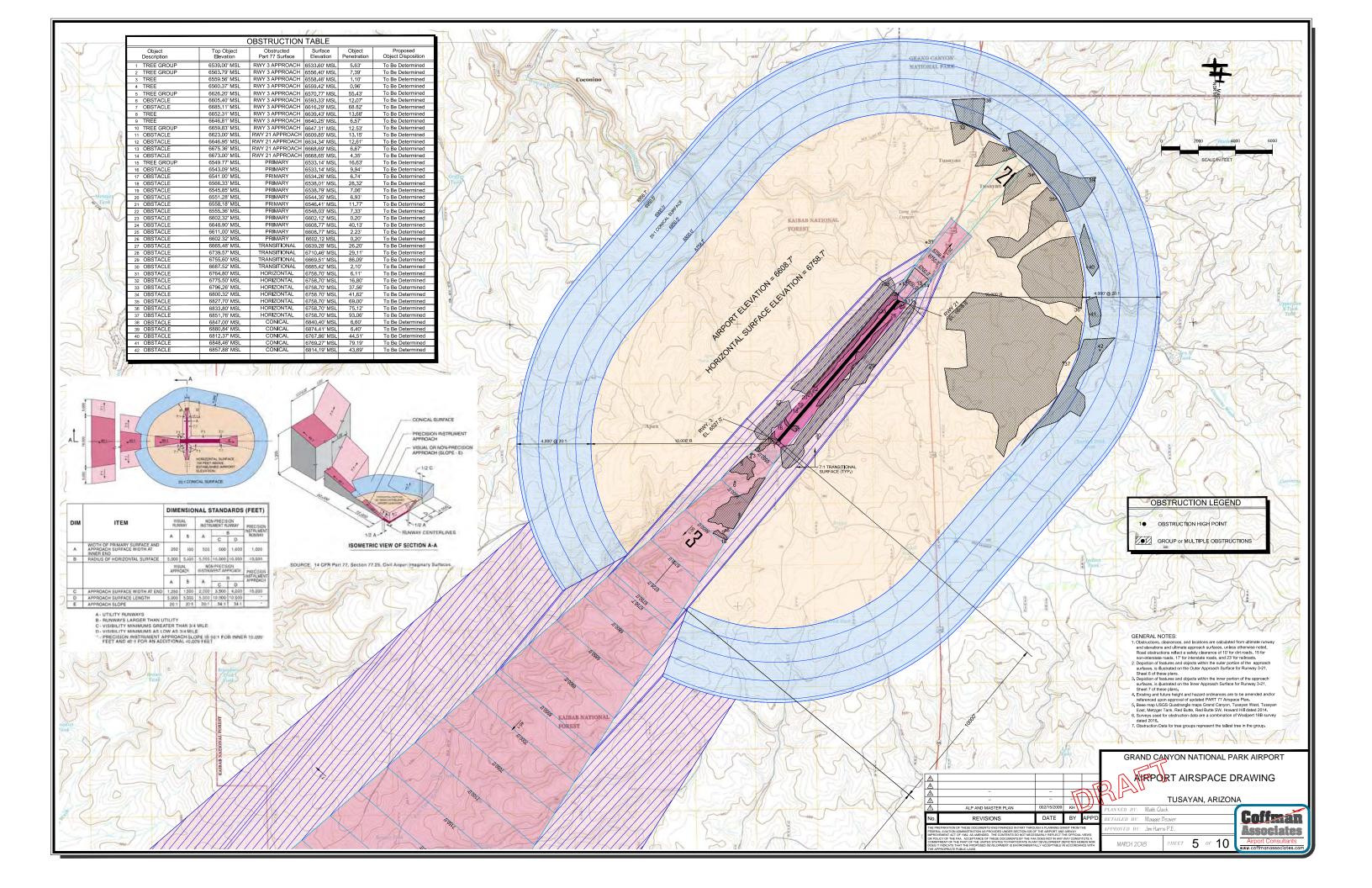
NOTES:

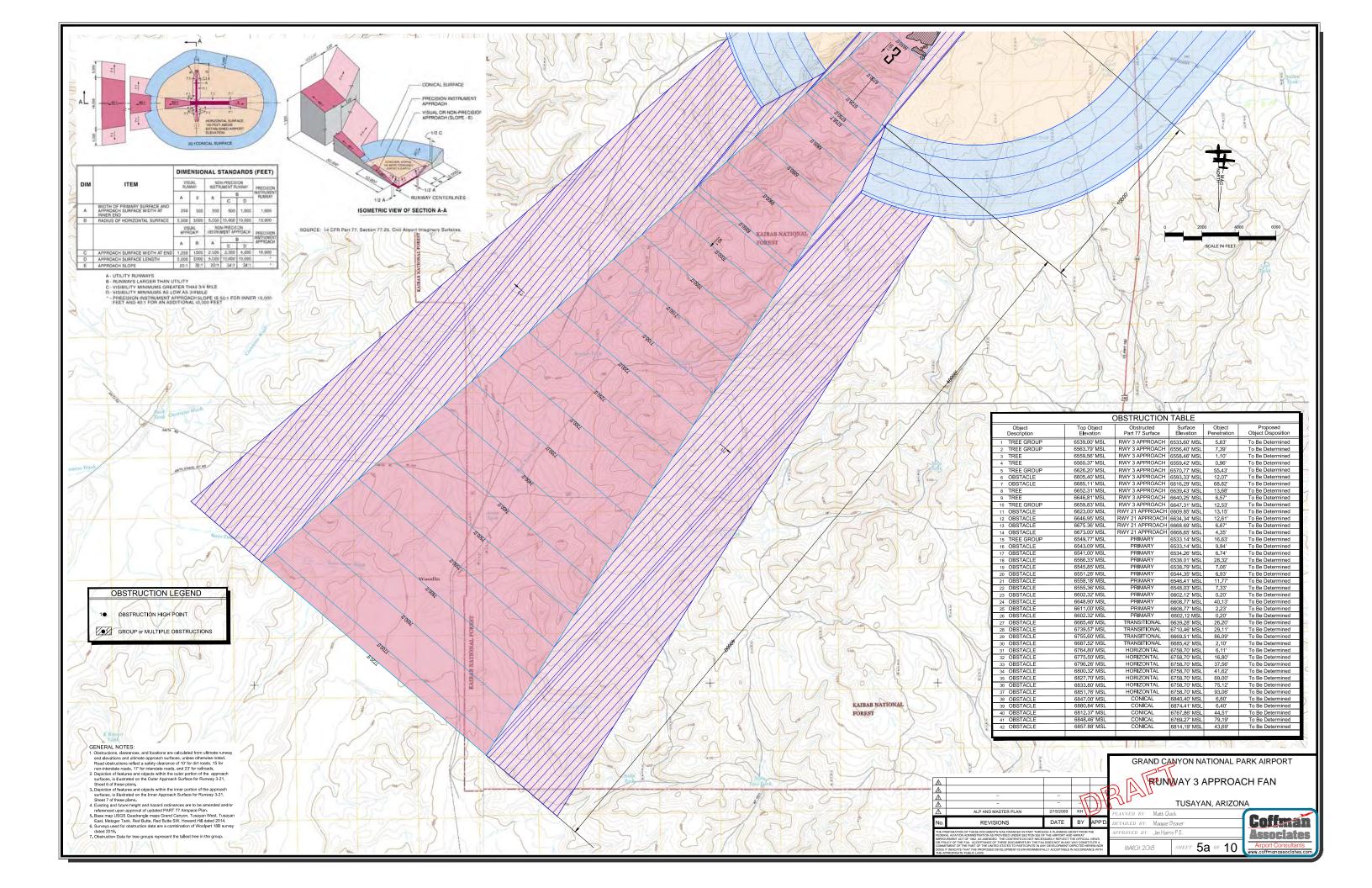
6. PER PREVIOUS COORDINATION BETWEEN THE FAA AND ADOT, IT HAS BEEN DETERMINED THAT THE PORTION OF AIRPORT ROAD LOCATED WITHIN THE EXISTINGAULTIMARE PREV LOCATED ON THE NORTH SIDE OF RUWAY 3-21 IS ALLOWED TO REMAIN IN ITS EXISTING LOCATION BUT IT IS INELIGIBLE FOR AIP PUNDING DUE TO ITS INCOMPATIBLE USE WITHIN THE RPZ, IT HAS ALSO BEEN DETERMINED THAT BUILDING 448 (PAPILLION HELICOPTERS) CAN ERAMIN IN TS EXISTING LOCATION SINCE THE PORTION OF THE BUILDING WITHIN THE RPZ IS NOT OCCUPIED.

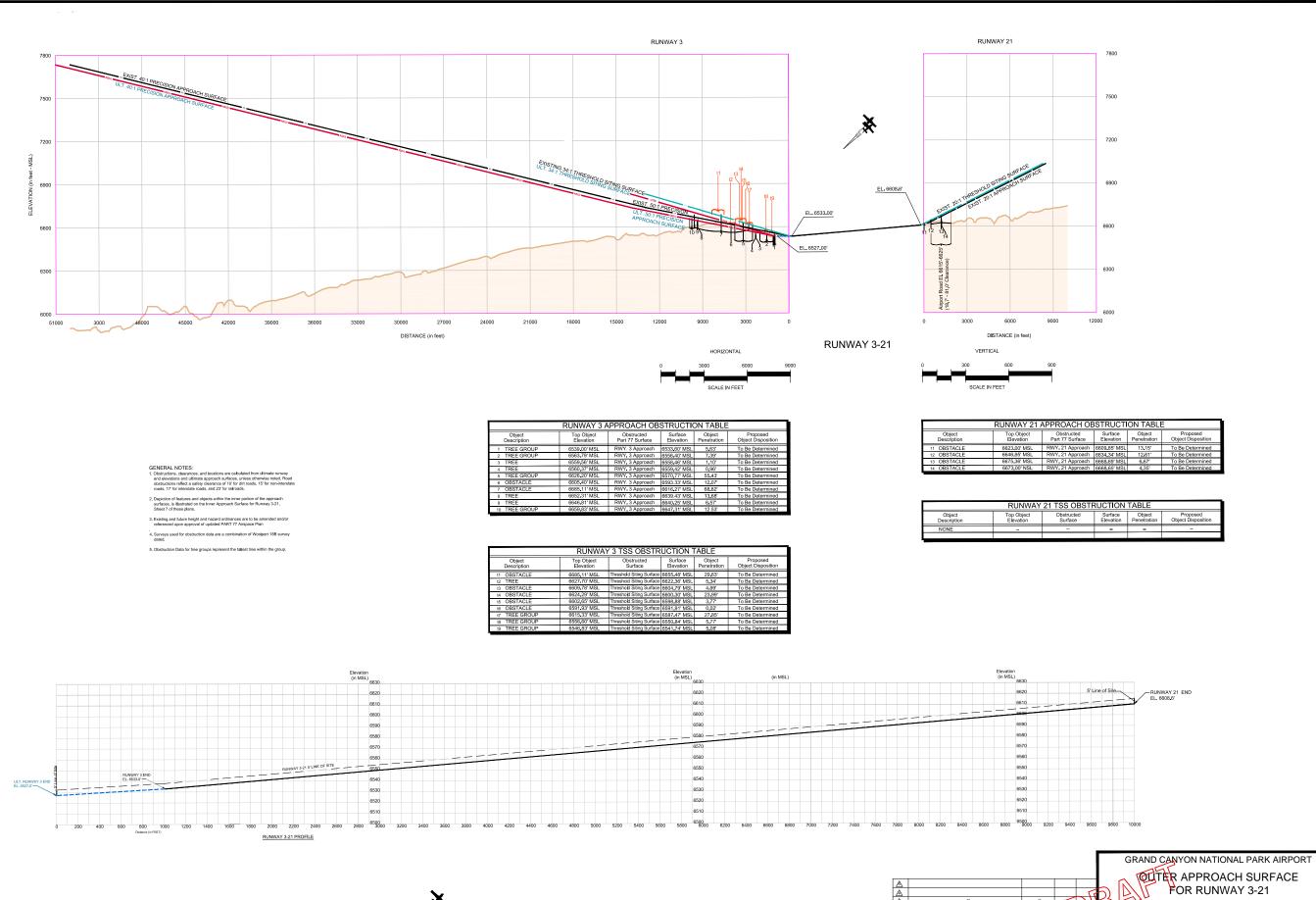
7. THE AVIGATION EASEMENT WAS ENACTED BETWEEN THE GRAND CANYON UNIFIED SCHOOL DISTRICT #4 AND THE STATE OF ARIZONA (DEPARTMENT OF TRANSPORTATION-AERONAUTICS DIVISION) ON AUGUST 17, 2006. THE LOCATION/DIMENSIONS OF THE AVIGATION EASEMENT ARE BASED ON THE BEST AVIGATION PROVIDED AT THE TIME OF THE DRAWING.















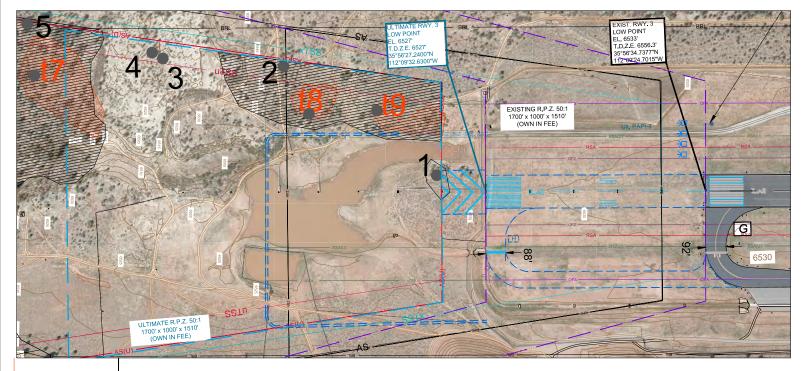


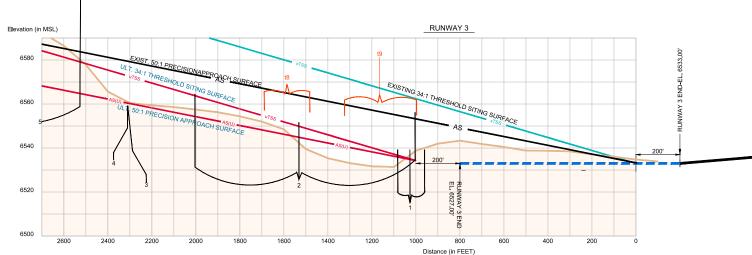


TUSAYAN, ARIZONA

MARCH 2018 SHEET 6 OF 10

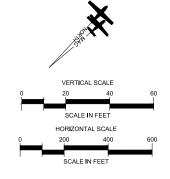
Coffman Associates





	RUNWAY 3 APPROACH OBSTRUCTION TABLE								
Object Description	Top Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition				
1 TREE GROUP	6539.00' MSL	RWY, 3 Approach	6533.60' MSL	5.63'	To Be Determined				
2 TREE GROUP	6563.79' MSL	RWY, 3 Approach	6556.40' MSL	7.39'	To Be Determined				
3 TREE	6559.56' MSL	RWY. 3 Approach	6558.46' MSL	1.10'	To Be Determined				
4 TREE	6560.37' MSL	RWY, 3 Approach	6559.42' MSL	0.96'	To Be Determined				
5 TREE GROUP	6626.20' MSL	RWY. 3 Approach	6570.77' MSL	55.43'	To Be Determined				
6 OBSTACLE	6605.40' MSL	RWY, 3 Approach	6593.33' MSL	12.07'	To Be Determined				
7 OBSTACLE	6685.11' MSL	RWY. 3 Approach	6616.27' MSL	68.82'	To Be Determined				
8 TREE	6652,31' MSL	RWY, 3 Approach	6639.43' MSL	13.68'	To Be Determined				
9 TREE	6646.81' MSL	RWY. 3 Approach	6640.25' MSL	6.57'	To Be Determined				
10 TREE GROUP	6659,83' MSL	RWY, 3 Approach	6647.31' MSL	12,53'	To Be Determined				

RUNWAY 3 TSS OBSTRUCTION TABLE								
Object Description	Top Object Elevation	Obstructed Surface	Surface Elevation	Object Penetration	Proposed Object Disposition			
t1 OBSTACLE	6685.11' MSL	Threshold Siting Surface	6655.48' MSL	29.63'	To Be Determined			
t2 TREE	6627.70' MSL	Threshold Siting Surface	6622.36' MSL	5.34'	To Be Determined			
t3 OBSTACLE	6609.78' MSL	Threshold Siting Surface		4.99'	To Be Determined			
t4 OBSTACLE	6624.29' MSL	Threshold Siting Surface	6600.30' MSL	23.99'	To Be Determined			
t5 OBSTACLE	6602.65' MSL	Threshold Siting Surface	6598.88' MSL	3.77'	To Be Determined			
t6 OBSTACLE	6591.93' MSL	Threshold Siting Surface	6591.91' MSL	0.02'	To Be Determined			
17 TREE GROUP	6615.33' MSL	Threshold Siting Surface	6587.47' MSL	27.85'	To Be Determined			
t8 TREE GROUP	6556,60' MSL	Threshold Siting Surface	6550.84' MSL	5.77'	To Be Determined			
t9 TREE GROUP	6546.83' MSL	Threshold Siting Surface	6541.74' MSL	5.08'	To Be Determined			



GENERAL NOTES:

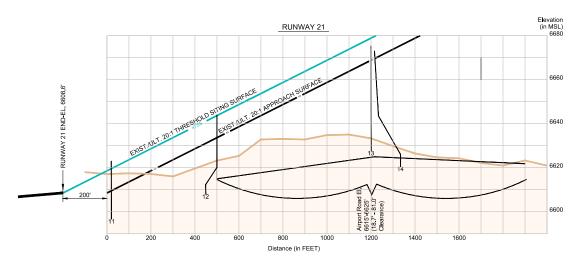
1. Obstructions, clearances, and locations are calculated from ultimate runway and elevations and ultimate approach surfaces, unless otherwise noted. Road obstructions reflect a safety clearance of 10 for dri troads, 15 for non-interstate roads, 17 for interstate roads, and 23 for nafroads.

Depiction of features and objects within the inner portion of the approach surfaces, is illustrated on the Inner Approach Surface for Runway 3-21, Sheet 7 of these plans.

Existing and future height and hazard ordinances are to be amended and/or referenced upon approval of updated PART 77 Airspace Plan.

Surveys used for obstruction data are a combination of Woolpert 18B survey dated.

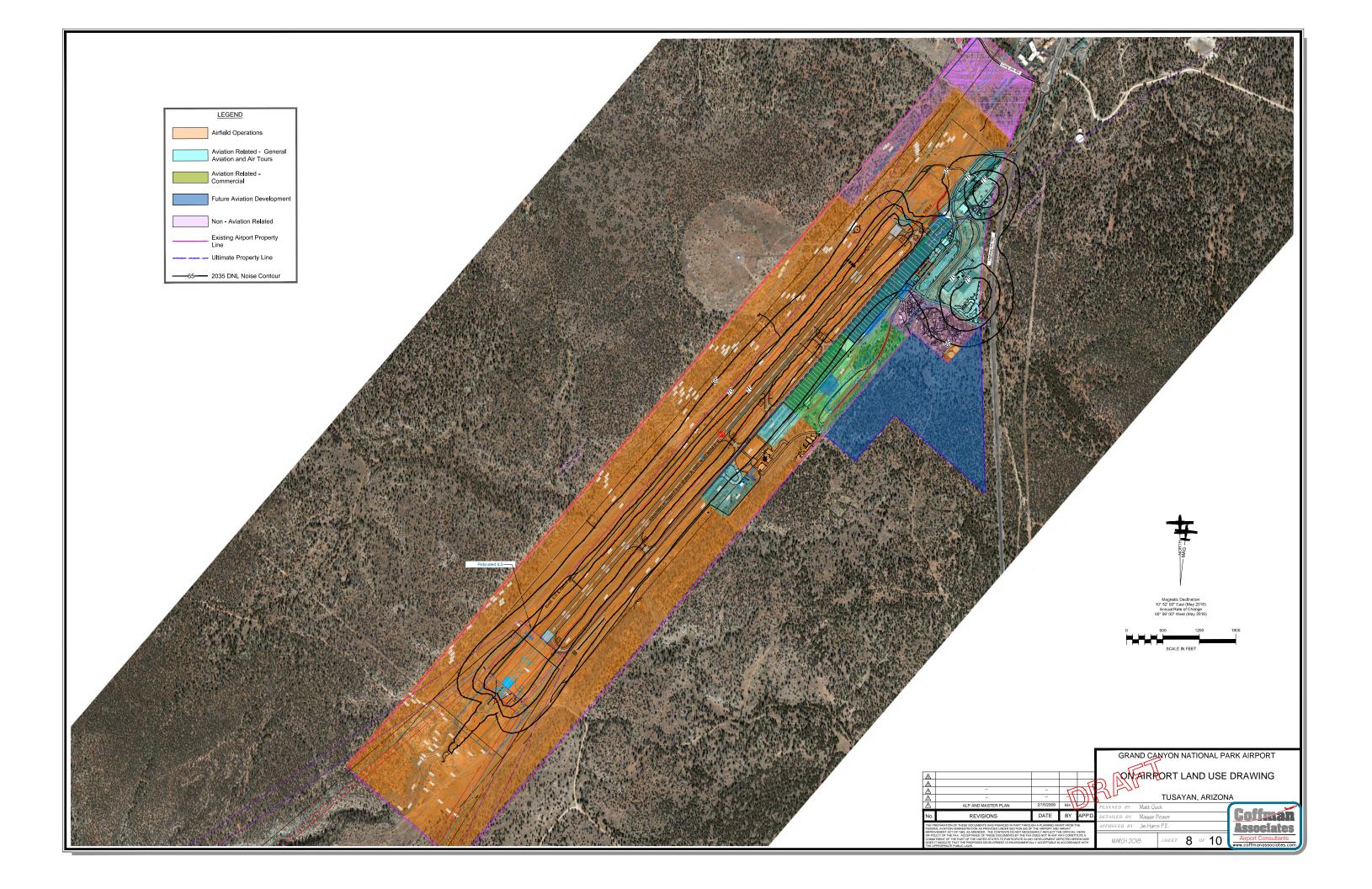
	MIST, RWY, 21 IGH POINT I 6609.8' D.Z.E. 6608.7' 55742,2257'N 12'08'13.4164"W	12 sy	505 505 505 505 505 505 505 505 505 505		SV
RSAIU		EX 1	0025 SISTING R.P.Z. 20.1 700' x 500' x 1010' (OWN IN FEE)	6615 640 6815	
	002			957)	
	PSA Otz		12		
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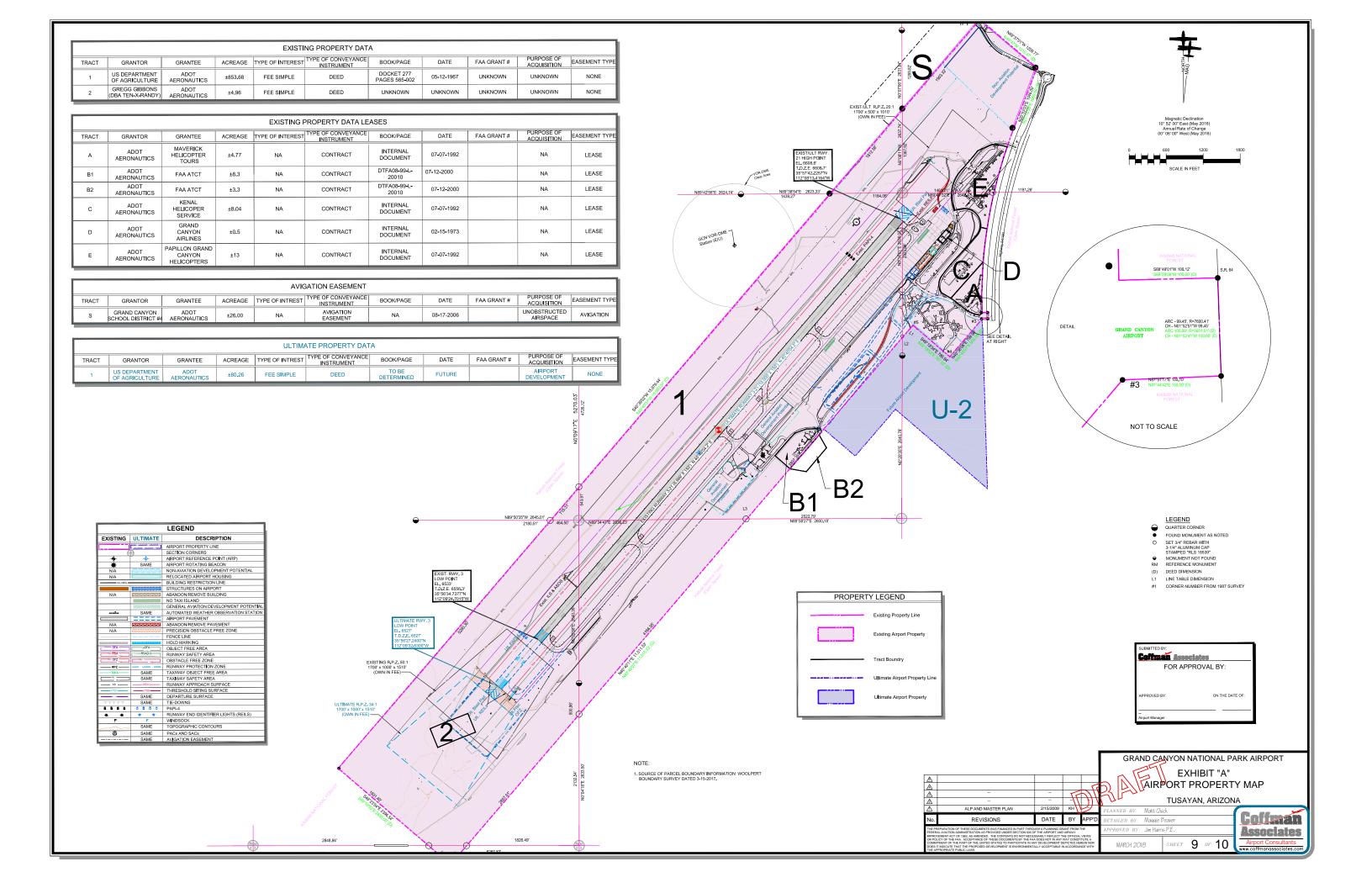


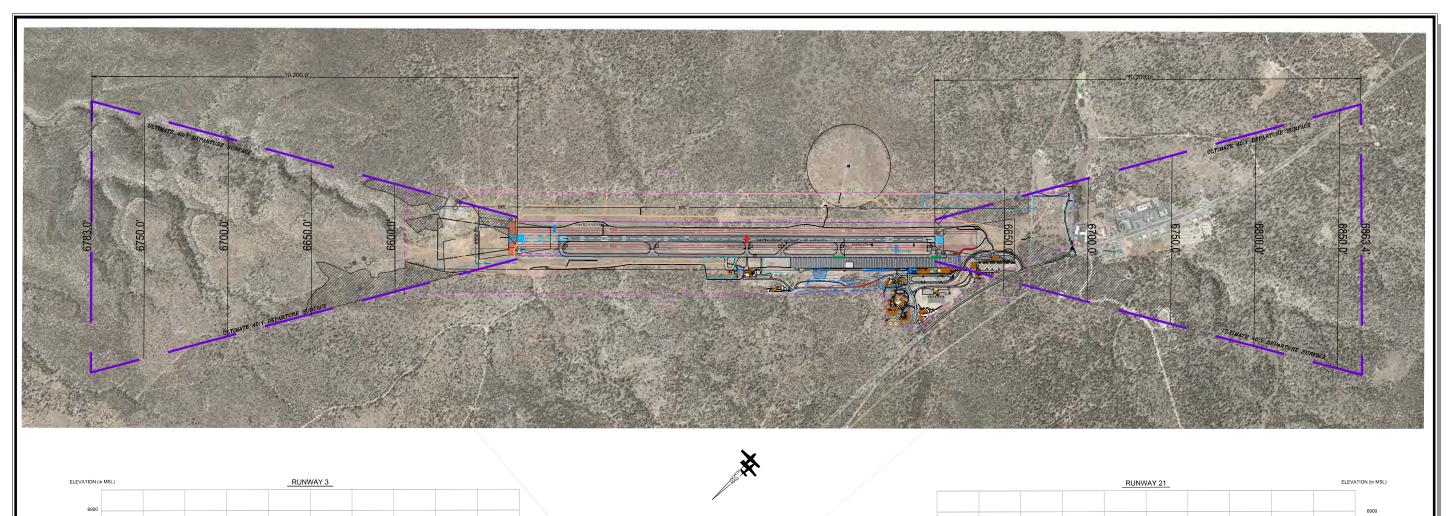
RUNWAY 21 APPROACH OBSTRUCTION TABLE							
Object Description	Top Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition		
11 OBSTACLE	6623,00' MSL	RWY, 21 Approach	6609.85' MSL	13.15'	To Be Determined		
12 OBSTACLE	6646.95' MSL	RWY. 21 Approach	6634.34' MSL	12.61'	To Be Determined		
13 OBSTACLE	6675.36' MSL	RWY. 21 Approach	6668.69' MSL	6.67'	To Be Determined		
14 OBSTACLE	6673.00' NSL	RWY. 21 Approach	6668.65' MSL	4.35'	To Be Determined		

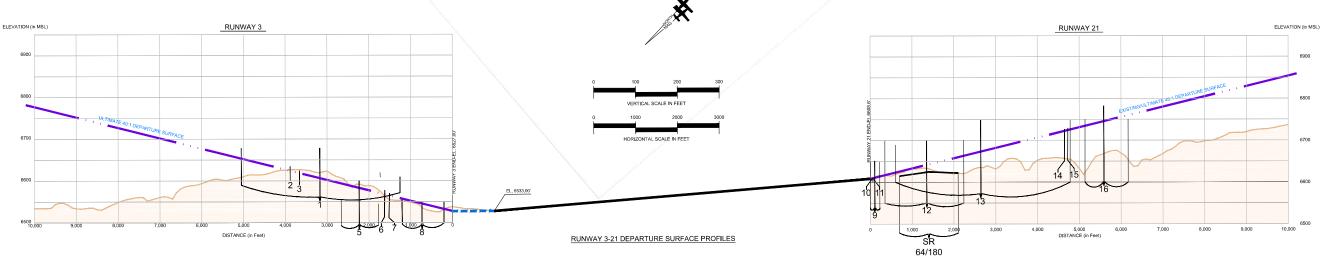
RUNWAY 21 TSS OBSTRUCTION TABLE								
Object Description	Top Object Elevation	Obstructed Surface	Surface Elevation	Object Penetration	Proposed Object Disposition			
NONE	ı	ı	_	_	I			











RUNWAY 3 DEPARTURE OBSTRUCTION TABLE							
Object Description	Top Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition		
1 OBSTACLE	6689.60' MSL	RWY. 3 Departure	6627.17' MSL	62.43'	To Be Determined		
2 TREE	6634.27 MSL	RWY. 3 Departure	6630.56' MSL	3.71'	To Be Determined		
3 OBSTACLE	6629.01' MSL	RWY. 3 Departure	6624.98' MSL	4.03'	To Be Determined		
4 OBSTACLE	6646.90' MSL	RWY. 3 Departure	6621.06' MSL	25.91'	To Be Determined		
5 TREE GROUP	6615.33' MSL	RWY. 3 Departure	6584.76' MSL	30.57'	To Be Determined		
6 TREE	6577.58' MSL	RWY. 3 Departure	6569.49' MSL	8.09'	To Be Determined		
7 TREE	6570.33' MSL	RWY, 3 Departure	6567.96' MSL	2.37'	To Be Determined		
8 TREE GROUP	6549.77' MSL	RWY. 3 Departure	6533.14' MSL	16.63'	To Be Determined		

RUNWAY 21 DEPARTURE OBSTRUCTION TABLE							
Object Description	Top Object Elevation	Obstructed Part 77 Surface	Surface Elevation	Object Penetration	Proposed Object Disposition		
9 OBSTACLE	6651.20' MSL	RWY. 21 Departure	6613.63' MSL	37.57'	To Be Determined		
10 OBSTACLE	6611.00' MSL	RWY. 21 Departure	6609.67' MSL	1.33'	To Be Determined		
11 OBSTACLE	6610.00' MSL	RWY. 21 Departure	6608.64' MSL	0.35'	To Be Determined		
12 OBSTACLE	6699.94' MSL	RWY. 21 Departure	6657.17' MSL	42.77'	To Be Determined		
13 OBSTACLE	6748.25' MSL	RWY, 21 Departure	6667.02' MSL	81,23'	To Be Determined		
14 OBSTACLE	6726,24' MSL	RWY, 21 Departure	6725.40' MSL	0.84'	To Be Determined		
15 TREE	6728.66' MSL	RWY. 21 Departure	6608,83' MSL	2.83'	To Be Determined		
16 OBSTACLE	6782.20' MSL	RWY, 21 Departure	6756.63' MSL	25,61'	To Be Determined		

<u>\$</u>					755	PARTURE SURI RUNWAY 3-2	FACE
<u>A</u>	ALP AND MASTER PLAN	2/15/2009	 KH))		TUSAYAN, ARIZON	A
No.	REVISIONS	DATE	_	APP'D.	PLANNED BY: Matt Qui		Coffman
THE PREPARATION OF THESE DOCUMENTS WAS FINANCED IN PART THROUGH A PLANNING GRANT FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER SECTION 505 OF THE AIRPORT AND AIRWAY MPROVENERS TAG OF 1952 AS AIRPORD THE CONTENTS DO NOT INCESSABLITY REFLECT THE OFFICIAL VIEWS					APPROVED BY: Jim Harris	s P.E.	Associates
R POLICY OF T COMMITMENT O COES IT INDICA	THE FAA. ACCEPTANCE OF THESE DOCUMENTS BY THE FA- OF THE PART OF THE UNITED STATES TO PARTICIPATE IN AI TE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENT. ATE PUBLIC LAWS.	A DOES NOT IN ANY W NY DEVELOPMENT DEI	AY CONSTITU	ITE A IN NOR	MARCH 2018	SHEET 10 OF 10	Airport Consultants



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