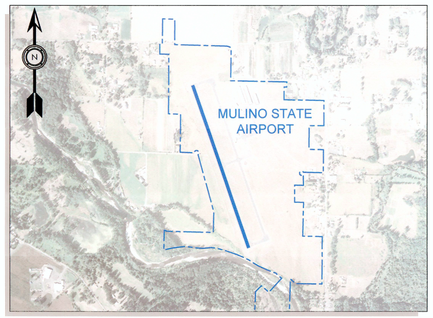
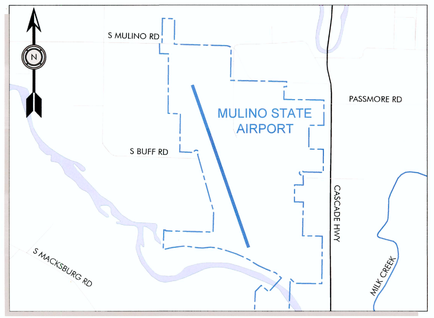
MULINO STATE AIRPORT MASTER PLAN

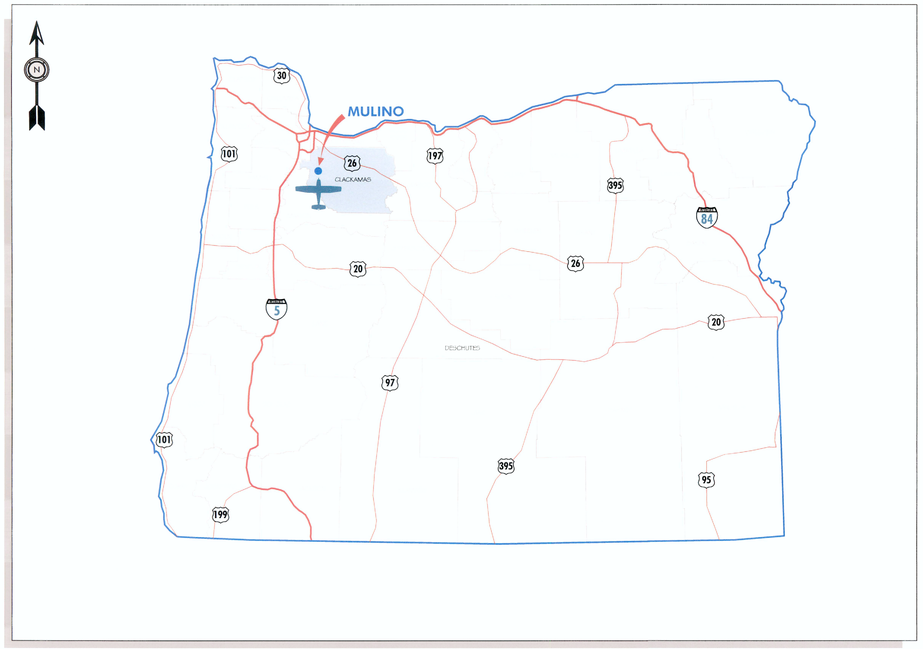
MULINO, OREGON
CWEC PROJECT NO. 4009705501
AIP NO. 3-41-0072-012
APRIL 2019



AERIAL PHOTO



VICINITY MAP



LOCATION MAP

SHEET INDEX

NUMBER	CONTENTS
1	COVER SHEET
2	AIRPORT DATA SHEET
3	AIRPORT LAYOUT PLAN
4	TERMINAL AREA PLAN
5	AIRPORT AIRSPACE PLAN (FAR PART 77) 1 OF 2
6	AIRPORT AIRSPACE PLAN (FAR PART 77) 2 OF 2
7	RUNWAY 14-32(E) 15-33(F) INNER APPROACH SURFACE / RPZ
8	OFF-AIRPORT LAND USE PLAN
9	ON-AIRPORT LAND USE PLAN
10	EXHIBIT "A" AIRPORT PROPERTY PLAN

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MULINO STATE AIRPORT

COVER SHEET

FIGURE NO. -

SHEET NO. 1 OF 10

AIRPORT DATA TABLE

DESCRIPTION		EXISTING	FUTURE
AIRPORT ELEVATION		259.6'	SAME
AIRPORT ACREAGE		275	281
ARP COORDINATES	LAT. LONG.	N 45° 12' 59.58" W 122° 35' 24.73"	N 45° 13' 00.39" W 122° 35' 16.10"
MAGNETIC DECLINATION		15°12'E (2/2019) ANNUAL RATE OF CHANGE 0°6'W	SAME
MEAN MAX. DAILY TEMPERATURE		82.6°	SAME
FAA IDENTIFIER		4S9	SAME
DATUM		NAD83/NAVD88	SAME
CRITICAL AIRCRAFT (ARC)		BEECH BARON (MULTI ENGINE PISTON)	BEECHCRAFT KING AIR 250
WINGSPAN		<49'	<79
WEIGHT		≤12,500 LBS.	12,500 LBS.
APPROACH SPEED		<91 KNOTS	<121 KNOTS
LENGTH OF HAUL		<500 MILES	<500 MILES
NPIAS ROLE / SERVICE LEVEL		GENERAL AVIATION	SAME
AIRPORT REFERENCE CODE (ARC)		B-I (SMALL)	B-II

RUNWAY DATA TABLE

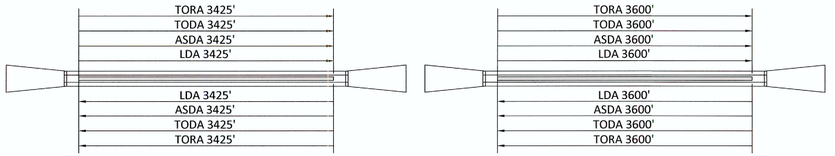
	EXISTING CONDITIONS RUNWAY 14 - 32	FUTURE CONDITIONS RUNWAY 15 - 33
RUNWAY LENGTH AND WIDTH	3425' X 100'	3600' X 75' (SEE NOTE 3)
RUNWAY PAVEMENT STRENGTH (IN 1000 LBS)	12 SW	12.5 SW
RUNWAY PAVEMENT TYPE	ASPHALT	SAME
RUNWAY PERCENT WIND COVERAGE (12 MPH)	N/A	SAME
RUNWAY PERCENT GRADIENT / MAXIMUM GRADE	0.34%	0.36%
RUNWAY DESIGN CODE (RDC)	B-I	B-II
FAR PART 77 DESIGNATION	UTILITY	LARGER THAN UTILITY
TERMINAL NAVAIDS	-	-
TAXIWAY LIGHTING	MITL	SAME
TAXIWAY MARKING	BASIC	SAME

RUNWAY DATA TABLES

	EXISTING CONDITIONS	EXISTING STANDARD	FUTURE CONDITIONS	FUTURE STANDARD
RUNWAY SAFETY AREA LENGTH AND WIDTH LENGTH BEYOND RUNWAY END	4025' X 150' 300'	3905' X 120' 240'	4200' X 150' 300'	4200' X 150' 300'
OBJECT FREE AREA LENGTH AND WIDTH LENGTH BEYOND RUNWAY END	4025' X 500' 300'	3905' X 250' 240'	4200' X 500' 300'	4200' X 500' 300'
OBSTACLE FREE ZONE LENGTH AND WIDTH LENGTH BEYOND RUNWAY END	3825' X 400' 200'	3825' X 250' 200'	4000' X 400' 200'	4000' X 400' 200'

		EXISTING CONDITIONS		FUTURE CONDITIONS	
RUNWAY LIGHTING		MIRL		SAME	
RUNWAY END		14	32	15	33
RUNWAY APPROACH CATEGORY		VISUAL	VISUAL	VISUAL	NPI
RUNWAY APPROACH SLOPE	PART 77 REQUIRED	20:1	20:1	20:1	34:1
	ACTUAL	20:1	34:1	20:1	34:1
RUNWAY DEPARTURE SURFACE		N/A	N/A	YES	YES
APPROACH VISIBILITY MINIMUMS		≧ 1 MILE	≧ 1 MILE	≧ 1 MILE (SEE NOTE 2)	≧ 3/4 MILE (SEE NOTE 2)
RUNWAY PROTECTION ZONE	ARRIVAL	500' X 700' X 1000'	500' X 700' X 1000'	500' X 700' X 1000'	1000' X 1510' X 1700'
	DEPARTURE	500' X 700' X 1000'	500' X 700' X 1000'	500' X 700' X 1000'	500' X 700' X 1000'
TOUCHDOWN ZONE ELEVATION (TDZE)		258.9'	260.1	SAME	SAME
RUNWAY MARKINGS		BASIC	BASIC	BASIC	NPI
RUNWAY END COORDINATES	LAT. LONG.	N 45° 13' 15.424" W 122° 35' 33.109"	N 45° 12' 43.743" W 122° 35' 16.359"	N 45° 13' 17.041" W 122° 35' 33.964"	N 45° 12' 43.743" W 122° 35' 16.359"
INSTRUMENTATION AND APPROACH AIDS		NONE	NONE	RNAV (GPS)	RNAV (GPS)
VISUAL AIDS		PAPI, REIL	PAPI, REIL	PAPI, REIL	PAPI, REIL / ALS
OFZ PENETRATION		NO		NO	

DECLARED DISTANCES



NON STANDARD CONDITIONS

NO.	ITEM	DESCRIPTION	DISPOSITION
1	APRON TAXILANE OFA	TIEDOWNS	RECONFIGURE
2	PARALLEL TAXIWAY OFA	FBO BUILDING	RELOCATE/REMOVE PORTION OF BUILDING WITHIN ADG II TOFA
3	HANGAR TAXILANE OFA	T-HANGARS	RECONFIGURE TAXILANE WHERE FEASIBLE & WHEN DEVELOPMENT IS AT END OF USEFUL LIFE.
4	RUNWAY 32	ALIGNED TAXIWAY	REMOVE PAVEMENT; CONSTRUCT NEW ACCESS TAXIWAY TO THRESHOLD
5	RUNWAY OFA	BERM	REMOVE

MODIFICATION TO STANDARDS

"NONE REQUIRED"

TAXIWAY / TAXILANE DATA

TAXIWAY DESIGN GROUP (TDG) : 1A (E) / 2 (F)

	EXISTING CONDITIONS	EXISTING STANDARDS	FUTURE CONDITIONS	FUTURE STANDARDS
TAXIWAY WIDTHS	40' / 50'	25'	35'	35'
TAXILANE WIDTHS	VARIES	25'	25' / 35'	25' / 35'
TAXIWAY OBJECT FREE AREA	VARIES	89'	131'	131'
TAXILANE OBJECT FREE AREA	VARIES	79'	115'	115'
TAXIWAY SAFETY AREA	VARIES	49'	79'	79'

APRON DIMENSIONS

	SQUARE FOOTAGE APPROX.
APRON EXISTING	56,144
APRON FUTURE	176,987
APRON RESERVE	79,650

NOTES:

1. RUNWAY 14/32 TO BE REDESIGNATED 15/33 DUE TO CHANGE IN MAGNETIC DECLINATION.
2. VERTICALLY GUIDED SURVEY REQUIRED.
3. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARD FOR B-I/ B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.
4. FUTURE 3/4 MILE VISIBILITY MAY BE IMPLEMENTED WITH THE EXISTING OR FUTURE DESIGN AIRCRAFT.
5. THE EXISTING STANDARDS LISTED REFLECT THE MASTER PLAN DEFINED EXISTING CRITICAL AIRCRAFT (ARC: B-I SMALL). THE EXISTING CONDITIONS LISTED REFLECT ACTUAL FACILITIES.

LEGEND

	EXISTING	FUTURE
BUILDINGS		
AIRFIELD PAVEMENT		
BUILDING RESTRICTION LINE (BRL)	BRL (E)	BRL (F)
AIRPORT PROPERTY LINE		
RUNWAY SAFETY AREA (RSA)		
OBJECT FREE AREA (OFA)		
OBSTACLE FREE ZONE (OFZ)		
TAXIWAY OBJECT FREE AREA (TOFA)		
TAXIWAY SAFETY AREA (TSA)		
RUNWAY PROTECTION ZONE (RPZ)		
GROUND CONTOURS	100'	SAME
AIRPORT REFERENCE POINT (ARP)		
VISUAL GUIDANCE INDICATORS (PAPI)		
WIND INDICATOR		
SEGMENTED CIRCLE WIND INDICATOR		
FENCE 4' EXISTING 6' FUTURE		
BEACON		
THRESHOLD LIGHTS		
REIL		
MEDIUM INTENSITY RUNWAY LIGHTS (MIRL)		N/A
ACCESS ROAD/VEHICLE PARKING	N/A	
AVIGATION EASEMENT		
AERONAUTICAL RESERVE	N/A	
TO BE REMOVED		N/A
WATER		SAME
TREES		SAME
SKYDIVE DROP ZONE		N/A
TURF TAXIWAY		
AUTOMATED AIRPORT WEATHER STATION (AWOS)	N/A	
APPROACH LIGHTING SYSTEM (ALS)	N/A	
HELICOPTER PARKING	N/A	H

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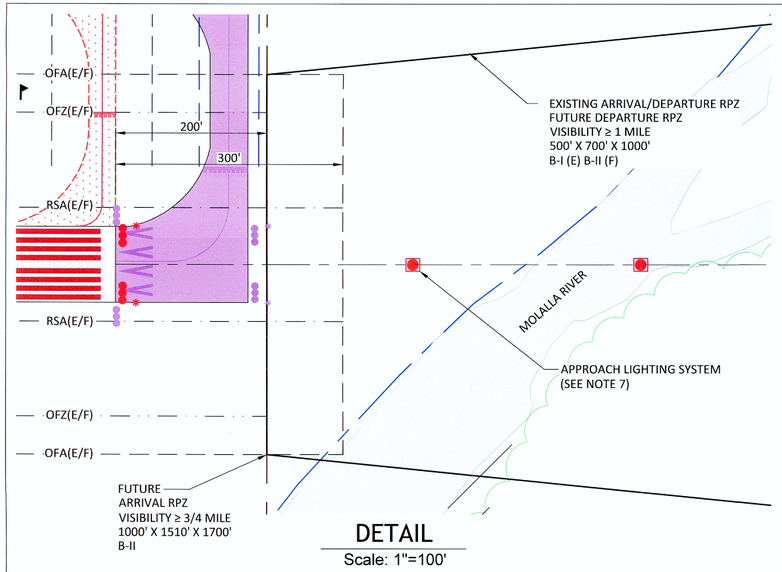
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MULINO STATE AIRPORT

AIRPORT DATA SHEET

FIGURE NO. -

SHEET NO. 2 OF 10



DETAIL

Scale: 1"=100'

BUILDING/FACILITY KEY

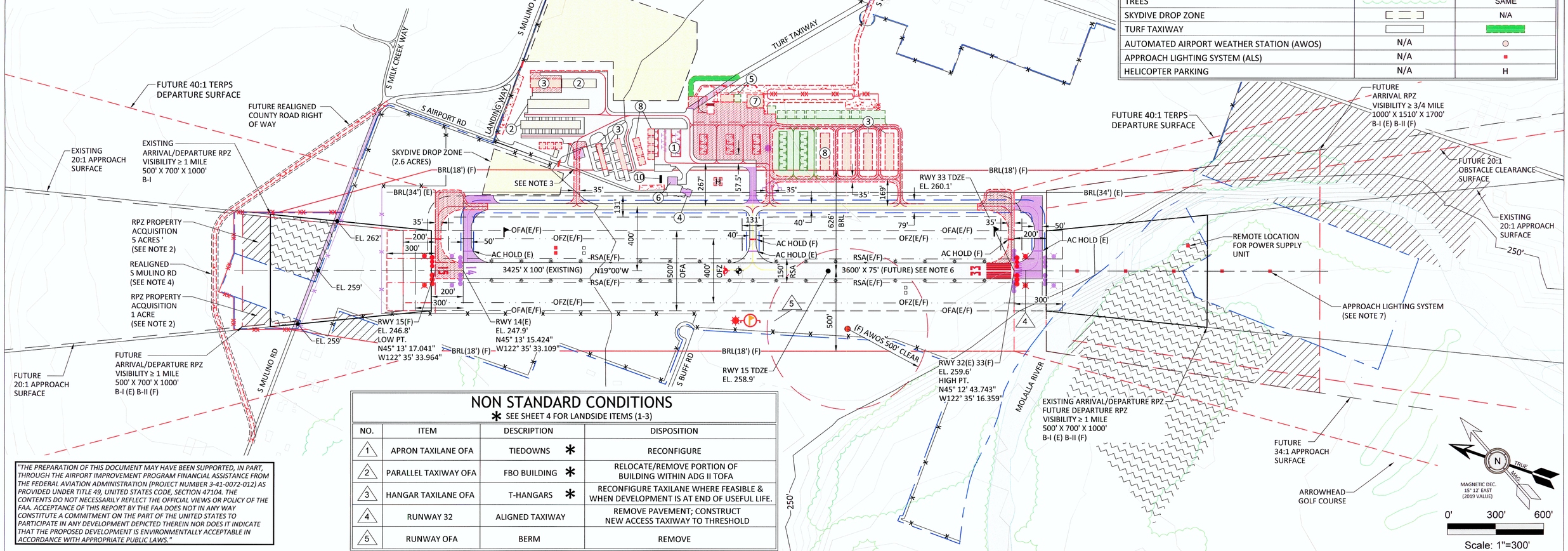
NO.	DESCRIPTION
1	AIRCRAFT APRON (EXISTING)
2	T-HANGAR (EXISTING)
3	T-HANGAR (FUTURE)
4	FBO (EXISTING)
5	FBO (FUTURE)
6	MAINTENANCE HANGAR (EXISTING)
7	MAINTENANCE HANGAR (FUTURE)
8	HANGARS (FUTURE)
9	EXPERIMENTAL AIRCRAFT ASSOCIATION
10	FUEL (EXISTING)

NOTES:

1. RUNWAY 14/32 TO BE REDESIGNATED 15/33 DUE TO CHANGE IN MAGNETIC DECLINATION.
2. EXISTING RWY 14 RPZ CONTROLLED THROUGH AVIGATION EASEMENT. FUTURE RPZ REQUIRES EXPANDED EASEMENT AND / OR PROPERTY ACQUISITION.
3. AIRPORT SERVICE ROAD, A VEHICLE GATE WILL BE INSTALLED RESTRICTING ACCESS TO TENANTS AND AIRPORT VEHICLES PRIOR TO THE CONSTRUCTION OF THE NEW TAXIWAY.
4. SOUTH MULINO ROAD REALIGNMENT IS CONCEPTUAL AND MAY POTENTIALLY AFFECT 3 PRIVATELY-OWNED PARCELS. THE R.O.W. DEPICTED FOR THE REALIGNMENT IS ALSO CONCEPTUAL AND INDIVIDUAL PROPERTY ASSESSMENTS WILL BE REQUIRED.
5. THE EXISTING RUNWAY-TAXIWAY SYSTEM WAS DESIGNED AND CONSTRUCTED TO MEET/ EXCEED ARC B-II DIMENSIONAL STANDARDS. B-II WAS LISTED AS EXISTING AND FUTURE ARC ON 2008 FAA-APPROVED ALP. THE UPDATED EXISTING CRITICAL AIRCRAFT (B-I SMALL) DESIGN STANDARDS ARE NOTED ON SHEET 2, BUT ARE NOT DEPICTED, FOR CLARITY.
6. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARD FOR B-I / B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.
7. FUTURE ALS TYPE AND CONFIGURATION (ODALS, MALSF, ETC.) TO BE DETERMINED BASED ON APPROACH REQUIREMENTS AND INSTALLATION FEASIBILITY, IN ACCORDANCE WITH FAA AC 150-5340-30J.

LEGEND

	EXISTING	FUTURE
BUILDINGS		
AIRFIELD PAVEMENT		
BUILDING RESTRICTION LINE (BRL)	BRL (E)	BRL (F)
AIRPORT PROPERTY LINE		
RUNWAY SAFETY AREA (RSA)		
OBJECT FREE AREA (OFA)		
OBSTACLE FREE ZONE (OFZ)		
TAXIWAY OBJECT FREE AREA (TOFA)		
TAXIWAY SAFETY AREA (TSA)		
RUNWAY PROTECTION ZONE (RPZ)		
GROUND CONTOURS	100'	SAME
AIRPORT REFERENCE POINT (ARP)		
VISUAL GUIDANCE INDICATORS (PAPI)		
WIND INDICATOR		
SEGMENTED CIRCLE WIND INDICATOR		
FENCE 4' EXISTING 6' FUTURE		
BEACON		
THRESHOLD LIGHTS		
REIL		
MEDIUM INTENSITY RUNWAY LIGHTS (MIRL)		N/A
ACCESS ROAD/VEHICLE PARKING	N/A	
AVIGATION EASEMENT		
AERONAUTICAL RESERVE	N/A	
TO BE REMOVED		N/A
WATER		SAME
TREES		SAME
SKYDIVE DROP ZONE		N/A
TURF TAXIWAY		
AUTOMATED AIRPORT WEATHER STATION (AWOS)	N/A	
APPROACH LIGHTING SYSTEM (ALS)	N/A	
HELICOPTER PARKING	N/A	H



NON STANDARD CONDITIONS

✱ SEE SHEET 4 FOR LANDSIDE ITEMS (1-3)

NO.	ITEM	DESCRIPTION		DISPOSITION
1	APRON TAXILANE OFA	TIEDOWNS	✱	RECONFIGURE
2	PARALLEL TAXIWAY OFA	FBO BUILDING	✱	RELOCATE/REMOVE PORTION OF BUILDING WITHIN ADG II TOFA
3	HANGAR TAXILANE OFA	T-HANGARS	✱	RECONFIGURE TAXILANE WHERE FEASIBLE & WHEN DEVELOPMENT IS AT END OF USEFUL LIFE.
4	RUNWAY 32	ALIGNED TAXIWAY		REMOVE PAVEMENT; CONSTRUCT NEW ACCESS TAXIWAY TO THRESHOLD
5	RUNWAY OFA	BERM		REMOVE

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APPROVAL DATE: 7/19/19

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DATE: APRIL 2019		PROJECT NO: 4009705501	

MULINO STATE AIRPORT

AIRPORT LAYOUT PLAN

FIGURE NO. -

SHEET NO. 3 OF 10

BUILDING/FACILITY KEY

NO.	DESCRIPTION
1	AIRCRAFT APRON (EXISTING)
2	T-HANGAR (EXISTING)
3	T-HANGAR (FUTURE)
4	FBO (EXISTING)
5	FBO (FUTURE)
6	MAINTENANCE HANGAR (EXISTING)
7	MAINTENANCE HANGAR (FUTURE)
8	HANGARS (FUTURE)
9	EXPERIMENTAL AIRCRAFT ASSOCIATION
10	FUEL (EXISTING)

APRON DIMENSIONS

	SQUARE FOOTAGE APPROX.
APRON EXISTING	56,144
APRON FUTURE	176,987
APRON RESERVE	79,650

NON STANDARD CONDITIONS

✻ SEE SHEET 3 FOR AIRSIDE ITEMS (4-5)

NO.	ITEM	DESCRIPTION	DISPOSITION
1	APRON TAXILANE OFA	TIEDOWNS	RECONFIGURE
2	PARALLEL TAXIWAY OFA	FBO BUILDING	RELOCATE/REMOVE PORTION OF BUILDING WITHIN ADG II TOFA
3	HANGAR TAXILANE OFA	T-HANGARS	RECONFIGURE TAXILANE WHERE FEASIBLE & WHEN DEVELOPMENT IS AT END OF USEFUL LIFE.
4	RUNWAY 32	ALIGNED TAXIWAY ✻	REMOVE PAVEMENT; CONSTRUCT NEW ACCESS TAXIWAY TO THRESHOLD
5	RUNWAY OFA	BERM ✻	REMOVE

NOTES:

1. COMPLETE LEGEND IS LOCATED ON SHEET 3, AIRPORT LAYOUT PLAN.
2. AIRPORT SERVICE ROAD, A VEHICLE GATE WILL BE INSTALLED RESTRICTING ACCESS TO TENANTS AND AIRPORT VEHICLES PRIOR TO THE CONSTRUCTION OF THE NEW TAXIWAY.
3. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARD FOR B-I/B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.

S MULINO RD.
S AIRPORT RD.
S DARNELL RD
LANDING WAY
SKYDIVE DROP ZONE (11.4 ACRES)
SKYDIVE DROP ZONE (2.6 ACRES)
GATE (F)
VEHICLE PARKING (F)
VEHICLE ACCESS AND PARKING (E)
SEE NOTE 2
TURF TAXIWAY
RELOCATE TURF TAXIWAY
VEHICLE ACCESS VIA DARNELL ROAD
FUEL (F)
FBO APRON
PARALLEL PARKING (F)
VEHICLE PARKING (F)
VEHICLE PARKING (F)
HELICOPTER PARKING (F)
BEACON TO BE RELOCATED
ACCESS TAXIWAY RECONFIG.
SEGMENTED CIRCLE WIND INDICATOR TO BE RELOCATED
AC HOLD (F)
AC HOLD (E)
AWOS (F) 500' CLEAR AREA
BRL(18') (F)
BRL(34') (E)
OFA(E/F)
OFZ(E/F)
RSA(E/F)
3425' X 100' (EXISTING)
N19°00'W
3600' X 75' (FUTURE) SEE NOTE 3
MAGNETIC DEC. 15° 12' EAST (2019 VALUE)
Scale: 1"=100'

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DESIGNED BY:	DRAWN BY:	CHECKED BY:	SCALE:
DM	JLS	WMR	AS SHOWN
DATE: APRIL 2019		PROJECT NO: 4009705501	

MULINO STATE AIRPORT

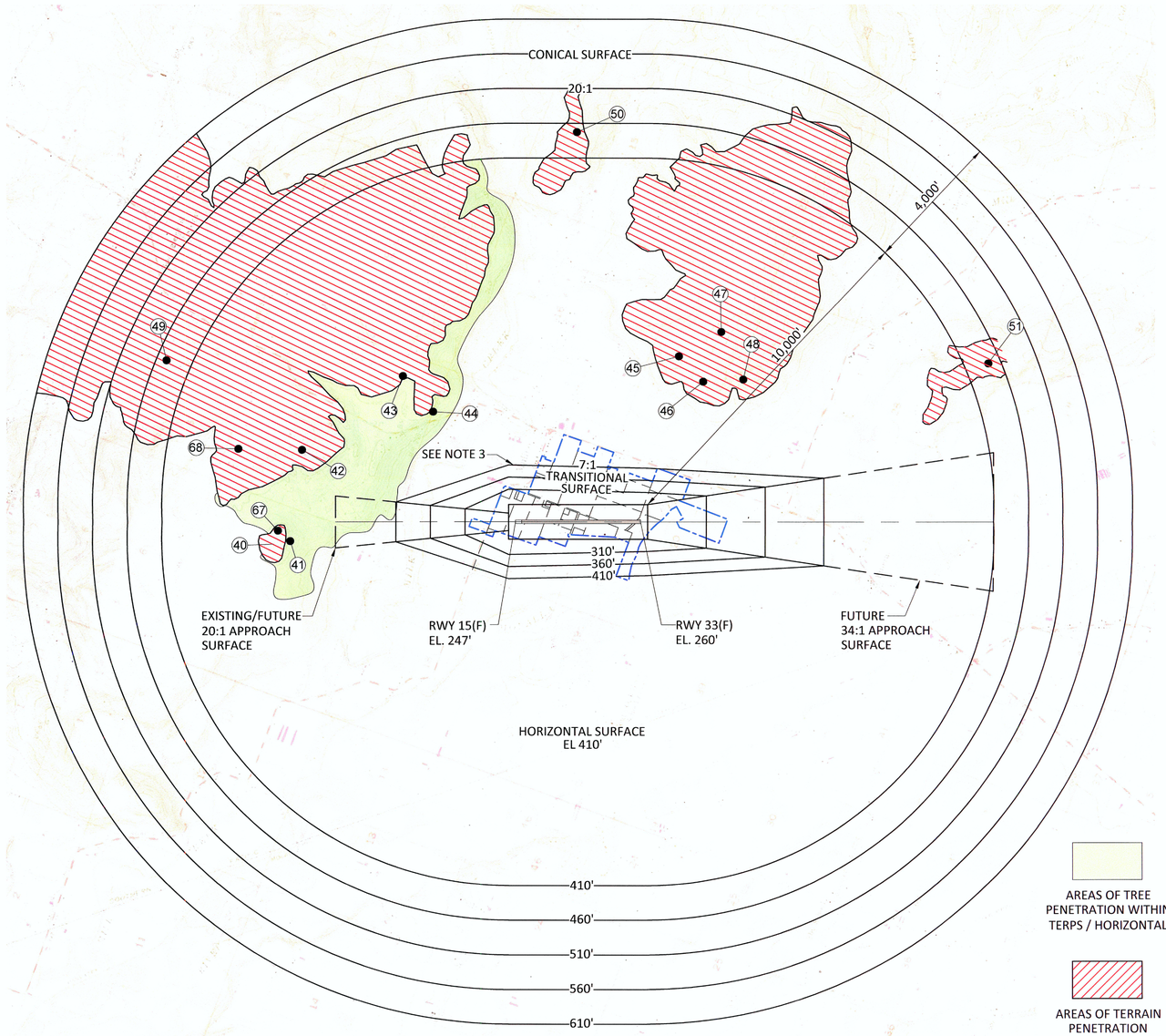
TERMINAL AREA PLAN

FIGURE NO. -

SHEET NO. 4 OF 10

OBSTRUCTION CHART

NO.	ITEM	TERPS / PART 77 SURFACES	TOP MSL ELEV (EST.)	DISTANCE FROM RWY CL	DISTANCE FROM RWY 14 END	DISTANCE FROM RWY 32 END	AMOUNT OF PENETRATION (ESTIMATED)	AIRPORT PROPERTY	DISPOSITION
1	TREE	TERPS SURFACE RWY 15	318'	442' R	880'	-4,480'	35.5'	NO	REMOVE
2	MULINO ROAD	TERPS SURFACE RWY 15	259'	335' R	875'	-4,475'	0'	NO	NO OBSTRUCTION, REFERENCE ONLY
3	TREE	APPROACH RWY 15 (VISUAL)	309'	240' R	858'	-4,458'	28.9'	YES	REMOVE
4	TREE	APPROACH RWY 15 (VISUAL)	290'	189' R	836'	-4,436'	10.9'	YES	REMOVE
5	MULINO ROAD	APPROACH RWY 15 (VISUAL)	259'	0'	725'	-4,325'	0'	NO	NO OBSTRUCTION, REFERENCE ONLY
6	MULINO ROAD	TRANSITIONAL	262'	310' L	625'	-4,225'	0'	NO	NO OBSTRUCTION, REFERENCE ONLY
7	TREE	TERPS SURFACE RWY 15	285'	443' R	498'	-4,098'	20.6'	NO	REMOVE
8	TREE	TERPS SURFACE RWY 15	293'	374' R	421'	-4,021'	28.5'	NO	REMOVE
9	TREE	TERPS SURFACE RWY 15	287'	525' R	393'	-3,993'	25'	NO	REMOVE
10	TREE	TERPS SURFACE RWY 15	289'	395' R	205'	-3,805'	32'	NO	REMOVE
11	TREE	TRANSITIONAL	262'	594' R	189'	-3,789'	2'	NO	REMOVE
12	TREE	PRIMARY	282'	440' R	-4'	-3,596'	35'	YES	REMOVE
13	TREE	TRANSITIONAL	310'	520' R	-190'	-3,410'	63	YES	REMOVE
14	ITEM OMITTED								
15	TREES	TRANSITIONAL	324'	620' R	-243'	-3,357'	59'	NO	REMOVE
16	WINDSOCK	PRIMARY	256'	212' L	-426'	-3,174'	8'	YES	LIGHT
17	PAPI	PRIMARY	253'	102' L	-925'	-2,675'	N/A	YES	NO OBSTRUCTION, REFERENCE ONLY
18	TREE	TRANSITIONAL	349'	1,354' R	-797'	-2,803'	0'	NO	NO OBSTRUCTION, REFERENCE ONLY
19	TREE	TRANSITIONAL	370'	637' R	-1045'	-2,555'	81'	NO	REMOVE
20	TREE	TRANSITIONAL	351'	588' R	-1,092'	-2,508'	52'	NO	REMOVE
21	PAPI	PRIMARY	260'	96' L	-2,925'	-675'	N/A	YES	NO OBSTRUCTION, REFERENCE ONLY
22	TREES	TRANSITIONAL	347'	586' L	-3,177'	-423'	39'	NO	REMOVE
23	TREE	APPROACH RWY 33 (NON-PREC)	274'	99' L	-4,270'	670'	.5'	NO	REMOVE
24	TREE	APPROACH RWY 33 (NON-PREC)	320'	505' L	-3,992	392'	54'	NO	REMOVE
25	TREE	APPROACH RWY 33 (NON-PREC)	303'	229' L	-4,350	750'	27'	NO	REMOVE
26	TREE	APPROACH RWY 33 (NON-PREC)	306'	84' L	-4,456'	856'	27'	NO	REMOVE
27	TREE	APPROACH RWY 33 (NON-PREC)	318'	289' L	-4,564'	964'	36'	NO	REMOVE
28	TREE	APPROACH RWY 33 (NON-PREC)	310'	149' L	-4,620'	1020'	26'	NO	REMOVE
29	TREE GROUP	APPROACH RWY 33	360'	589' R	-4,794'	1,194'	79'	NO	REMOVE
30	TREE	APPROACH RWY 33 (NON-PREC)	308'	201' L	-4,933'	1,333'	15'	YES	REMOVE
31	TREE GROUP	TRANSITIONAL	384'	787' R	-5,110'	1,510'	71'	NO	REMOVE
32	TREE	APPROACH RWY 33 (NON-PREC)	307'	272' R	-5,237	1,637'	5'	YES	REMOVE
33	TREE GROUP	APPROACH RWY 33 (NON-PREC)	406'	497' R	-6,073'	2,473'	78'	NO	REMOVE
34	TREE GROUP	APPROACH RWY 33 (NON-PREC)	423'	169' R	-6,672	3,072'	86'	NO	REMOVE
35	HIGHWAY 213	APPROACH RWY 33 (NON-PREC)	267'	210' R	-8,107'	4,507'	0'	NO	NO OBSTRUCTION, REFERENCE ONLY
36	TREE	APPROACH RWY 33 (NON-PREC)	359'	395' L	-6,536'	2,936'	19'	NO	REMOVE
37	TREE	APPROACH RWY 33 (NON-PREC)	427'	384' R	-6,509'	2,909'	88'	NO	REMOVE
38	TREE	TRANSITIONAL	347'	825' L	-2,897'	-703'	37'	NO	REMOVE
39	TREE	TRANSITIONAL	363'	954' R	-5,188'	1,588'	30'	NO	REMOVE
40	TERRAIN	TERPS SURFACE RWY 15/HORIZONTAL	440'	640' R	7,012'	-10,612'	30'	NO	LIGHT
41	TREE GROUP	TERPS SURFACE RWY 15/HORIZONTAL	550'	580'	6,505'	-10,105'	140'	NO	LIGHT
42	TREE GROUP	TERPS SURFACE RWY 15/HORIZONTAL	635'	2,080' L	6,165'	-9,765'	225'	NO	LIGHT
43	TREE GROUP	HORIZONTAL	620'	4,210' L	3,255'	-6,855'	210'	NO	LIGHT
44	TREE GROUP	HORIZONTAL	540'	3,180' L	2,385'	-5,985'	130'	NO	LIGHT
45	TREE GROUP	HORIZONTAL	620'	4,780' R	-4,705'	1,105'	210'	NO	LIGHT
46	TREE GROUP	HORIZONTAL	650'	4,050' R	-5,405'	1,805'	240'	NO	LIGHT
47	TERRAIN	HORIZONTAL	600'	5,484' R	-5,932'	2,332'	190'	NO	LIGHT
48	TREE GROUP	HORIZONTAL	670'	4,110' R	-6,575'	2,975'	260'	NO	LIGHT
49	TERRAIN	CONICAL	640'	4,667' L	10,076'	-13,676'	180'	NO	LIGHT
50	TERRAIN	CONICAL	500'	11,247' L	-1,774'	-1,826'	40'	NO	LIGHT
51	TERRAIN	CONICAL	480'	4,577' R	-13,656'	10,056'	20'	NO	LIGHT
52	TREE	APPROACH RWY 15 (VISUAL)	370'	306' R	2,449'	-6,049'	11'	NO	REMOVE
53	TREE	APPROACH RWY 15 (VISUAL)	370'	416' R	2,436'	-6,036'	12'	NO	REMOVE
54	TREE	APPROACH RWY 15 (VISUAL)	381'	386' R	2,564'	-6,164'	16'	NO	REMOVE
55	TREE	APPROACH RWY 15 (VISUAL)	372'	322' R	2,643'	-6,243'	3'	NO	REMOVE
56	TREE	APPROACH RWY 15 (VISUAL)	449'	462' L	4,146'	-7,746'	5'	NO	REMOVE
57	TREE	APPROACH RWY 15 (VISUAL)	483'	548' L	4,405'	-8,005'	25'	NO	REMOVE
58	TREE	APPROACH RWY 15 (VISUAL)	484'	334' L	4,498'	-8,098'	21'	NO	REMOVE
59	TREE	APPROACH RWY 15 (VISUAL)	498'	688' L	4,628'	-8,228'	30'	NO	REMOVE
60	TREE	APPROACH RWY 15 (VISUAL)	479'	100' L	4,732'	-8,332'	6'	NO	REMOVE
61	TREE	APPROACH RWY 15 (VISUAL)	494'	340' L	4,740'	-8,340'	20'	NO	REMOVE
62	POLE	APPROACH RWY 15 (VISUAL)	398'	434' L	4,740'	-8,340'	0'	NO	NO OBSTRUCTION, REFERENCE ONLY
63	POLE	APPROACH RWY 15 (VISUAL)	413'	530' L	4,799'	-8,399'	0'	NO	NO OBSTRUCTION, REFERENCE ONLY
64	TREE	APPROACH RWY 15 (VISUAL)	487'	372' L	4,949'	-8,549'	3'	NO	REMOVE
65	TREE	APPROACH RWY 15 (VISUAL)	492'	185' L	4,956'	-8,556'	8'	NO	REMOVE
66	TREE	APPROACH RWY 15 (VISUAL)	501'	676' L	4,995'	-8,595'	14'	NO	REMOVE
67	BUILDINGS	TERPS SURFACE RWY 15/HORIZONTAL	454'	249' R	6,863'	-10,463'	35'	NO	LIGHT
68	GROUND	TERPS SURFACE RWY 15/HORIZONTAL	532'	2,109' L	8,007'	-11,607'	85'	NO	LIGHT



FAR PART 77 PLAN VIEW

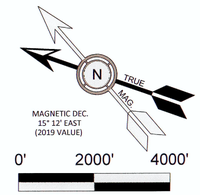
RUNWAY 15/33

FAR PART 77 DIMENSIONAL STANDARDS
RUNWAY ULTIMATE LENGTH = 3600'
RUNWAY TYPE = B-II

RUNWAY 15	RUNWAY 33
PRIMARY SURFACE WIDTH = 1000'	PRIMARY SURFACE WIDTH = 1000'
APPROACH SURFACE INNER WIDTH = 500'	APPROACH SURFACE INNER WIDTH = 1,000'
APPROACH SURFACE OUTER WIDTH = 1,500'	APPROACH SURFACE OUTER WIDTH = 4,000'
APPROACH SURFACE LENGTH = 5,000'	APPROACH SURFACE LENGTH = 10,000'
RADIUS OF HORIZONTAL SURFACE = 10,000'	RADIUS OF HORIZONTAL SURFACE = 10,000'
APPROACH SLOPE = 20:1	APPROACH SLOPE = 34:1

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NOTES:
1. DISTANCES FOR NOTED OBSTRUCTIONS ARE BASED ON THE ULTIMATE RUNWAY CONFIGURATION. DIMENSIONS INCLUDE 200' DISTANCE FROM RUNWAY END TO BEGINNING OF APPROACH.
2. PART 77 SURFACES BASED ON ULTIMATE AIRSPACE SURFACES.
3. CLOSE IN OBSTRUCTIONS ARE NOT DEPICTED FOR CLARITY. SEE SHEET 6 OF 10 FOR OMITTED OBSTRUCTIONS.
4. DATE OF OBSTRUCTION SURVEY; 10/22/2015



NO.	DATE	BY	APPR	REVISIONS

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541.382.2423 FAX

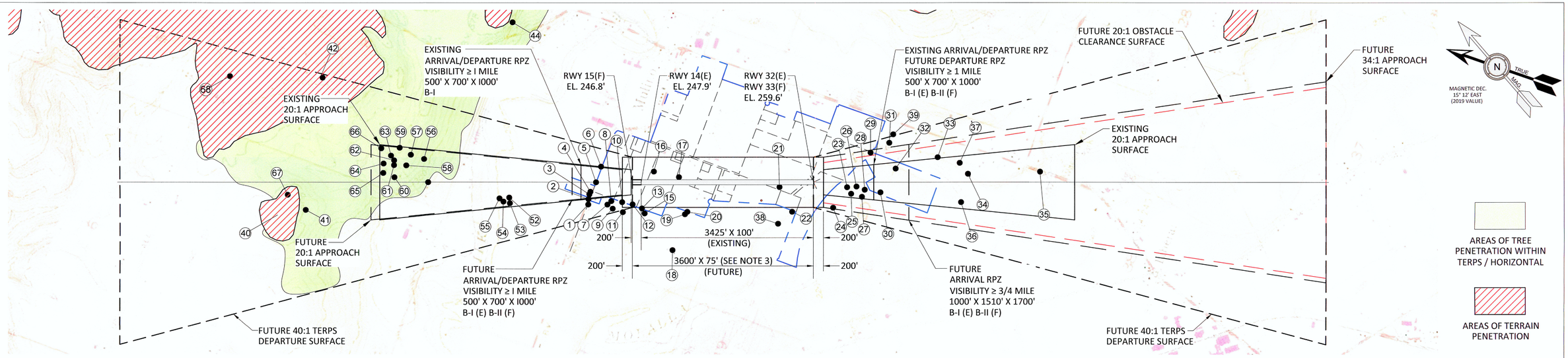
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DM	JLS	WMR	AS SHOWN
DATE: APRIL 2019		PROJECT NO: 4009705501	

MULINO STATE AIRPORT

AIRPORT AIRSPACE PLAN (FAR PART 77)

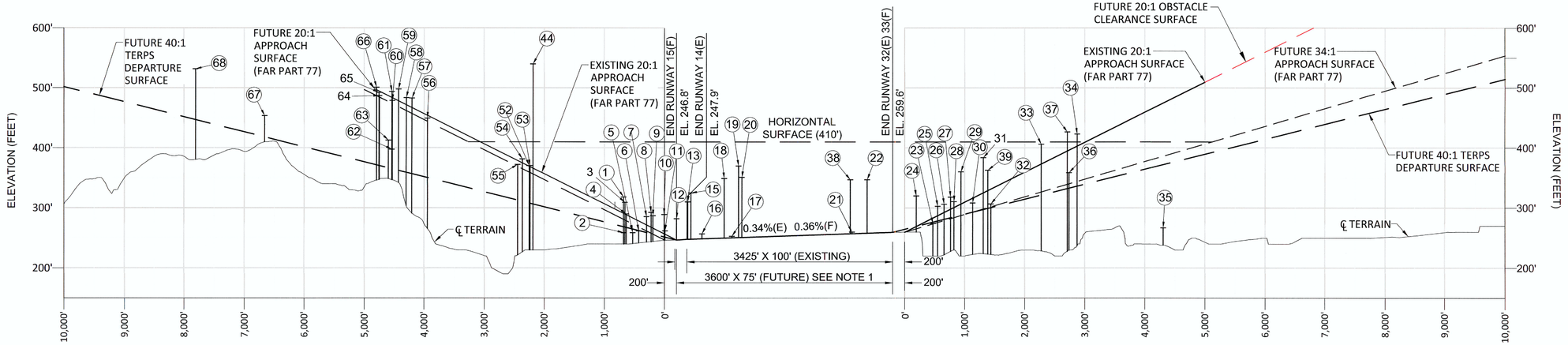
FIGURE NO. -

SHEET NO. 5 OF 10



RUNWAY 14-32(E) 15-33(F) PLAN VIEW

0' 1000' 2000'
Scale: 1"=1000'



RUNWAY 14-32(E) 15-33(F) PROFILE VIEW

0' 100' 200'
SCALE OF FEET
VERTICAL SCALE 1"=100'

0' 1000' 2000'
SCALE OF FEET
HORIZONTAL SCALE 1"=1000'

NOTES:

1. COMPLETE OBSTRUCTION CHART IS LOCATED ON SHEET 5, AIRPORT AIRSPACE PLAN (FAR PART 77).
2. DISTANCES FOR NOTED OBSTRUCTIONS ARE BASED ON THE ULTIMATE RUNWAY CONFIGURATION. DIMENSIONS INCLUDE 200' DISTANCE FROM RUNWAY END TO BEGINNING OF APPROACH.
3. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARD FOR B-I / B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.

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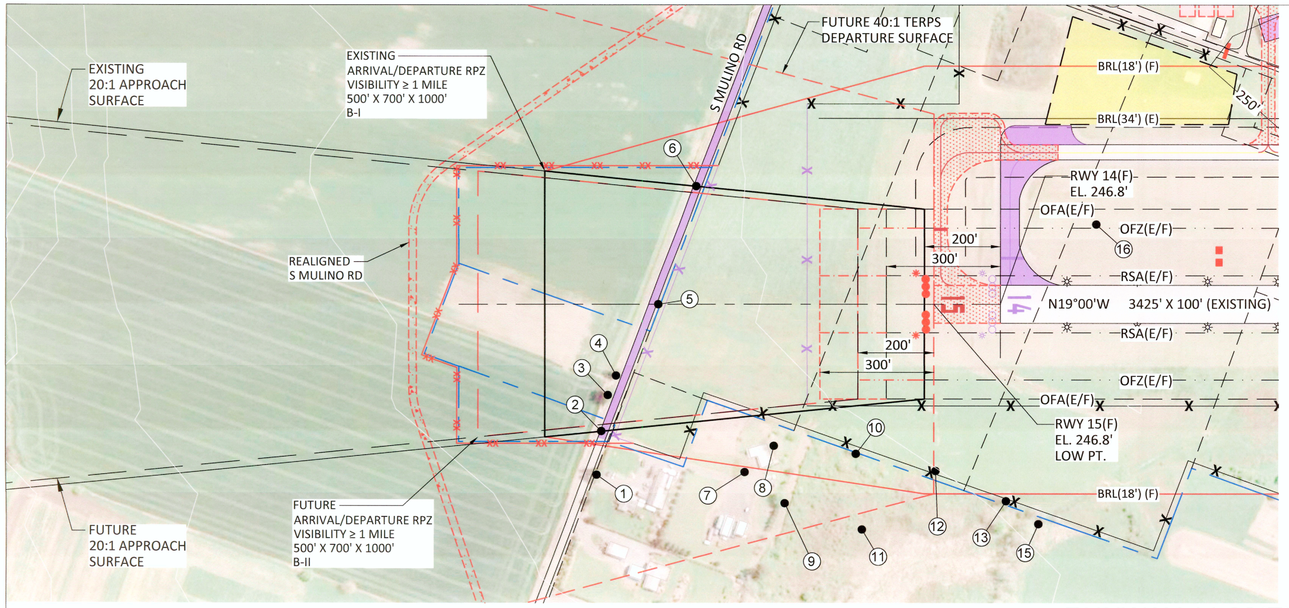
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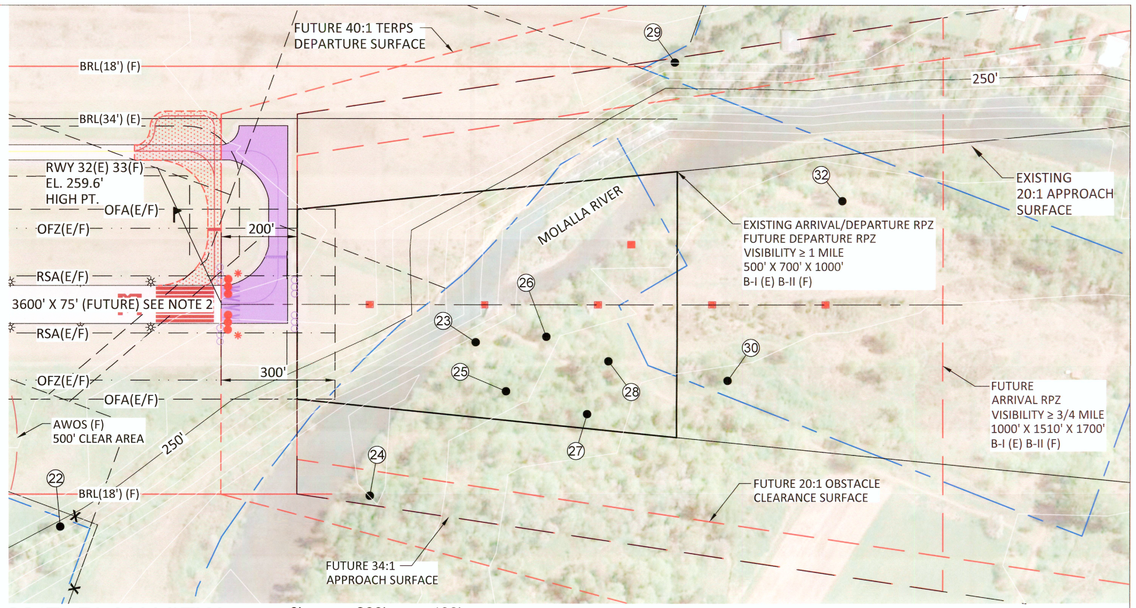
MULINO STATE AIRPORT

AIRPORT AIRSPACE PLAN (FAR PART 77)

FIGURE NO.
-

SHEET NO.
6 OF 10

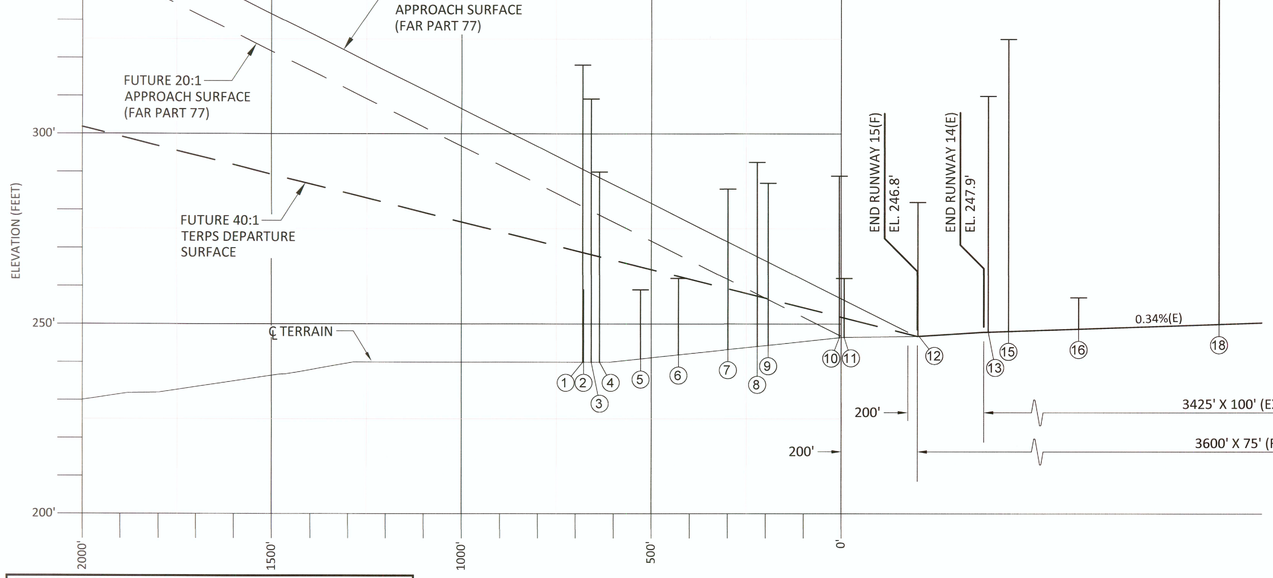


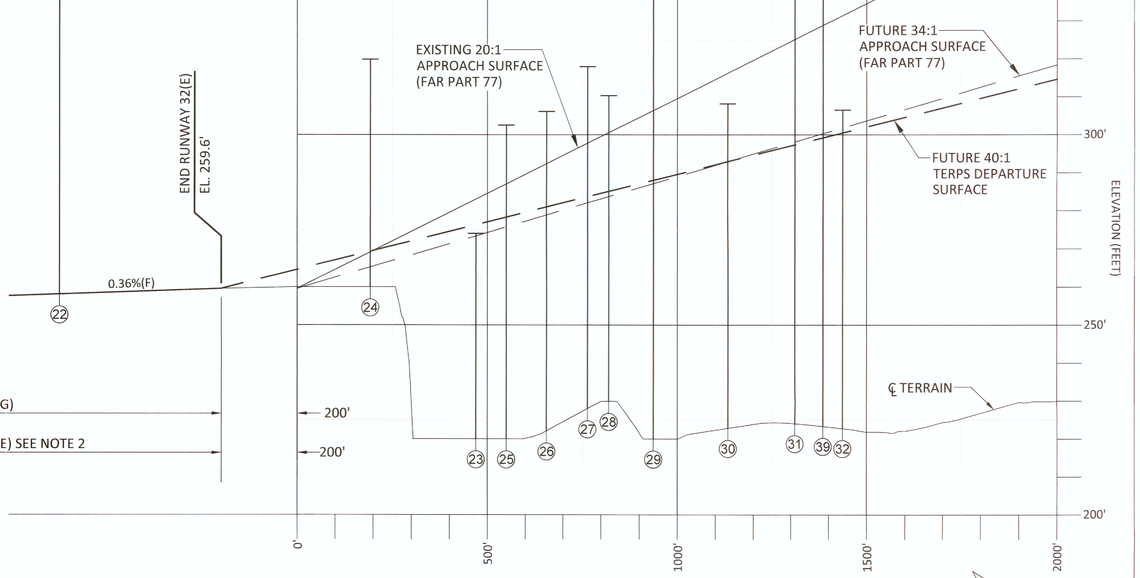


RUNWAY 14-32(E) 15-33(F) PLAN VIEW

0' 200' 400'

Scale: 1"=200'





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NOTES:
1. COMPLETE OBSTRUCTION CHART IS LOCATED ON SHEET 5, AIRPORT AIRSPACE PLAN (FAR PART 77).
2. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARDS FOR B-I / B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.

0' 20' 40'

Vertical Scale: 1"=20'

RUNWAY 14-32(E) 15-33(F) PROFILE VIEW

0' 200' 400'

Horizontal Scale: 1"=200'

MAGNETIC DEC. 15° 12' EAST (2019 VALUE)

NO.	DATE	BY	APPR	REVISIONS

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541.382.2423 FAX

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DATE: APRIL 2019		PROJECT NO: 4009705501	

MULINO STATE AIRPORT

RUNWAY 14-32(E) 15-33(F) INNER APPROACH SURFACE / RPZ

FIGURE NO. -

SHEET NO. 7 OF 10

LEGEND

- ZONING BOUNDARY
- RUNWAY PROTECTION ZONE (EXISTING)
- RUNWAY PROTECTION ZONE (FUTURE)
- APPROACH SURFACE (EXISTING)
- APPROACH SURFACE (FUTURE)
- AIRPORT PROPERTY LINE (EXISTING)
- AIRPORT PROPERTY LINE (FUTURE)
- FLIGHT TRACKS
- SKYDIVE DROP ZONE

CLACKAMAS COUNTY ZONING

EFU	EXCLUSIVE FARM USE
RRFF-5	RURAL RESIDENTIAL FARM FOREST 5 ACRE
RA-1, RA-2	RURAL AREA RESIDENTIAL, SFR 1 AND 2 AC
AGF	AG / FOREST DISTRICT
RC	RURAL COMMERCIAL
TBR	TIMBER DISTRICT

CLACKAMAS COUNTY COMPREHENSIVE PLAN LAND USE DESIGNATIONS

AG	AGRICULTURE
R	RURAL
F	FOREST
UCR	UNINCORPORATED COMMUNITY RESIDENTIAL
RC	RURAL COMMERCIAL

PUBLIC USE AIRPORT AND SAFETY OVERLAY ZONES ESTABLISHED BY CLACKAMAS COUNTY (SECTION 713) FOR MULINO STATE AIRPORT, CONSISTENT WITH ORS 836.600-630. THE AIRPORT AND SAFETY OVERLAY ZONE ALLOWS COMPATIBLE LAND USES, ESTABLISHES STANDARDS TO PROTECT AIR NAVIGATIONAL SAFETY, AND REDUCES SAFETY HAZARDS.

NOTES:

1. COMPLETE LEGEND IS LOCATED ON SHEET 3, AIRPORT LAYOUT PLAN.
2. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARDS FOR B-I / B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.

RA-1 / R
RA-1 / UCR
RC / RC
RA-1 / R
EFU / AG
S MILK CREEK WAY
S MULINO RD
RA-1 / UCR
SKYDIVE DROP ZONE (11.4 ACRES)
RA-1 / R
S DARNELL RD
TBR / F
RC / R
RA-2 / R
RRFF-5 / R
CASCADE HWY (213)
FUTURE 34:1 APPROACH SURFACE
EFU / AG
S AIRPORT RD
LANDING WAY
SKYDIVE DROP ZONE (2.6 ACRES)
RRFF-5 / R
RC / R
EXISTING 34:1 APPROACH SURFACE
EXISTING 20:1 APPROACH SURFACE
EFU / AG
N19°00'W
3425' X 100' (EXISTING)
3600' X 75' (FUTURE) SEE NOTE 2
EFU / AG
EFU / AG
(F) AWOS 500' CLEAR
EXISTING ARRIVAL/DEPARTURE RPZ VISIBILITY ≥ 1 MILE 500' X 700' X 1000' B-I
FUTURE 20:1 APPROACH SURFACE
FUTURE ARRIVAL/DEPARTURE RPZ VISIBILITY ≥ 1 MILE 500' X 700' X 1000' B-II
RRFF-5 / R
S MULINO RD
S BUFF RD
EFU / AG
EXISTING ARRIVAL/DEPARTURE RPZ
FUTURE DEPARTURE RPZ
VISIBILITY ≥ 1 MILE
500' X 700' X 1000'
B-I (E) B-II (F)
MOLALLA RIVER
FUTURE ARRIVAL RPZ
VISIBILITY ≥ 3/4 MILE
1000' X 1510' X 1700'
B-I (E) B-II (F)
EFU / AG
EFU / AG
S FISH RD

N
TRUE
MAG
MAGNETIC DEC. 15° 12' EAST (2019 VALUE)

0' 300' 600'

Scale: 1"=300'

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OREGON DEPARTMENT OF AVIATION APPROVAL

APPROVAL DATE: _____

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541.382.2423 FAX

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DATE: APRIL 2019		PROJECT NO: 4009705501	

MULINO STATE AIRPORT

OFF-AIRPORT LAND USE PLAN

FIGURE NO. -

SHEET NO. 8 OF 10

LEGEND

- ZONING BOUNDARY
- RUNWAY PROTECTION ZONE (EXISTING)
- RUNWAY PROTECTION ZONE (FUTURE)
- APPROACH SURFACE (EXISTING)
- APPROACH SURFACE (FUTURE)
- AIRPORT PROPERTY LINE (EXISTING)
- AIRPORT PROPERTY LINE (FUTURE)
- FLIGHT TRACKS
- SKYDIVE DROP ZONE
- AERONAUTICAL OPERATIONS
- * AERONAUTICAL SUPPORT (AIRCRAFT HANGARS, PARKING, FUELING, VEHICLE PARKING, ETC.) AND ADDITIONAL LAND AREAS CAPABLE OF ACCOMMODATING AIRPORT-COMPATIBLE NON-AERONAUTICAL USES.

CLACKAMAS COUNTY ZONING

- EFU — EXCLUSIVE FARM USE
- RRFF-5 — RURAL RESIDENTIAL FARM FOREST 5 ACRE
- RA-1 — RURAL AREA RESIDENTIAL, SFR 1

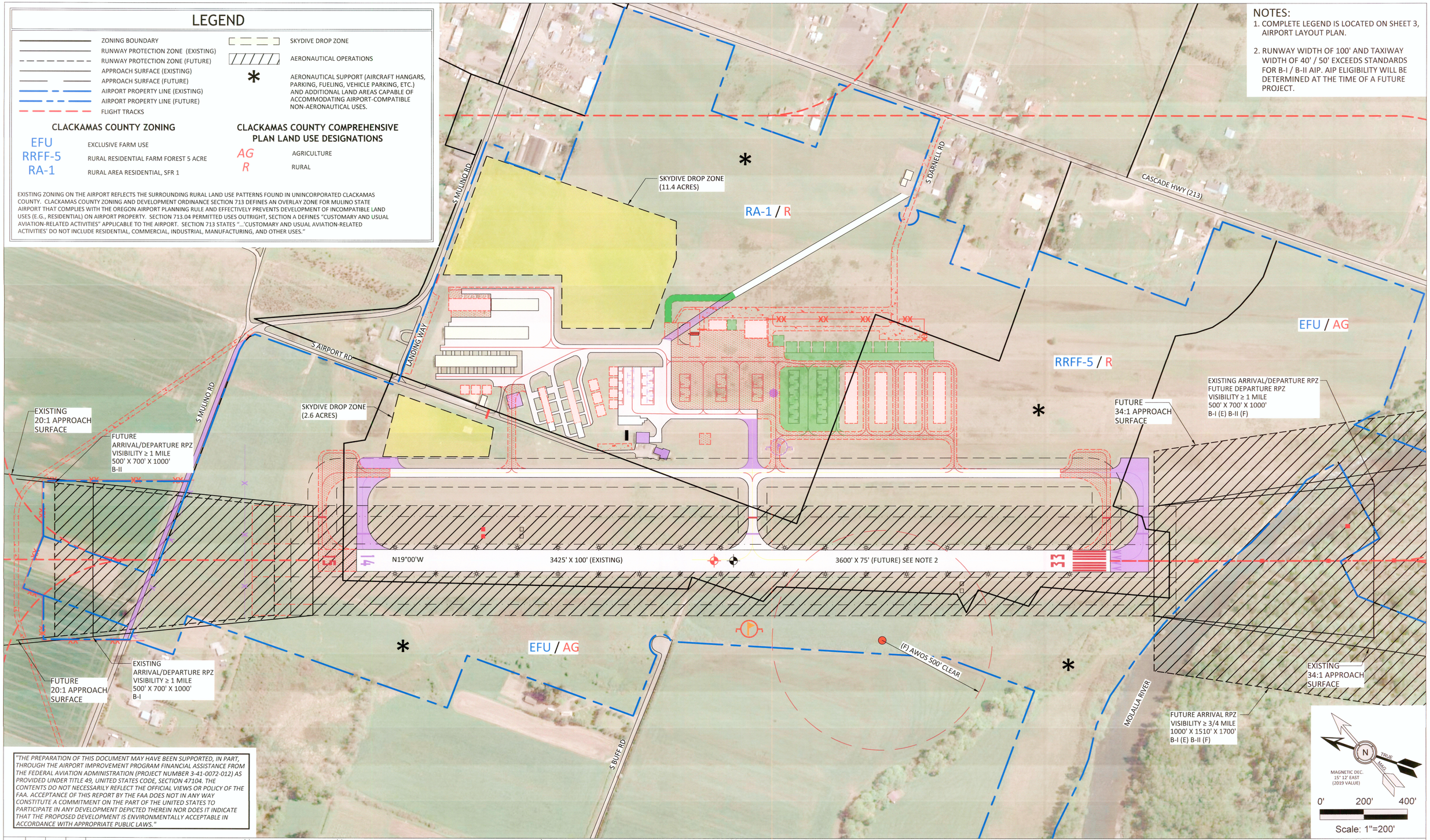
CLACKAMAS COUNTY COMPREHENSIVE PLAN LAND USE DESIGNATIONS

- AG — AGRICULTURE
- R — RURAL

EXISTING ZONING ON THE AIRPORT REFLECTS THE SURROUNDING RURAL LAND USE PATTERNS FOUND IN UNINCORPORATED CLACKAMAS COUNTY. CLACKAMAS COUNTY ZONING AND DEVELOPMENT ORDINANCE SECTION 713 DEFINES AN OVERLAY ZONE FOR MULINO STATE AIRPORT THAT COMPLIES WITH THE OREGON AIRPORT PLANNING RULE AND EFFECTIVELY PREVENTS DEVELOPMENT OF INCOMPATIBLE LAND USES (E.G., RESIDENTIAL) ON AIRPORT PROPERTY. SECTION 713.04 PERMITTED USES OUTRIGHT, SECTION A DEFINES "CUSTOMARY AND USUAL AVIATION-RELATED ACTIVITIES" APPLICABLE TO THE AIRPORT. SECTION 713 STATES "...'CUSTOMARY AND USUAL AVIATION-RELATED ACTIVITIES' DO NOT INCLUDE RESIDENTIAL, COMMERCIAL, INDUSTRIAL, MANUFACTURING, AND OTHER USES."

NOTES:

1. COMPLETE LEGEND IS LOCATED ON SHEET 3, AIRPORT LAYOUT PLAN.
2. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARDS FOR B-I / B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.



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NO.	DATE	BY	APPR	REVISIONS

VERIFY SCALES

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

FEDERAL AVIATION ADMINISTRATION APPROVAL

APPROVAL DATE: _____

SIGNATURE

OREGON DEPARTMENT OF AVIATION APPROVAL

APPROVAL DATE: _____

SIGNATURE

CENTURY WEST ENGINEERING

BEND OFFICE
1020 SW EMKAY DRIVE., #100
BEND, OR 97702
541.322.8962 OFFICE
541.382.2423 FAX

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SCALE:
DM	JLS	WMR	AS SHOWN
DATE: APRIL 2019		PROJECT NO: 4009705501	

MULINO STATE AIRPORT

ON-AIRPORT LAND USE PLAN

FIGURE NO. -

SHEET NO. 9 OF 10

LEGEND

- AIRPORT PROPERTY LINE (EXISTING)
- AIRPORT PROPERTY LINE (FUTURE),
- SECTION SUBDIVISION LINE
- SECTION LINE
- RUNWAY PROTECTION ZONE (EXISTING)
- RUNWAY PROTECTION ZONE (FUTURE)
- RUNWAY PROTECTION ZONE (FUTURE)
- LAND OWNED, FEDERAL PARTICIPATION AIP PROJECT NO. 3-41-0072-01
- LAND OWNED, FEDERAL PARTICIPATION AIP PROJECT NO. 3-41-0072-02
- LAND OWNED, FEDERAL PARTICIPATION AIP PROJECT NO. 3-41-0072-04
- LAND OWNED, FEDERAL PARTICIPATION AIP PROJECT NO. 3-41-0072-05 (1991)
- AVIGATION EASEMENTS, FEDERAL PARTICIPATION AIP PROJECT NO. 3-41-0072-05
- LAND TO BE ACQUIRED
- AVIGATION EASEMENT (FUTURE)

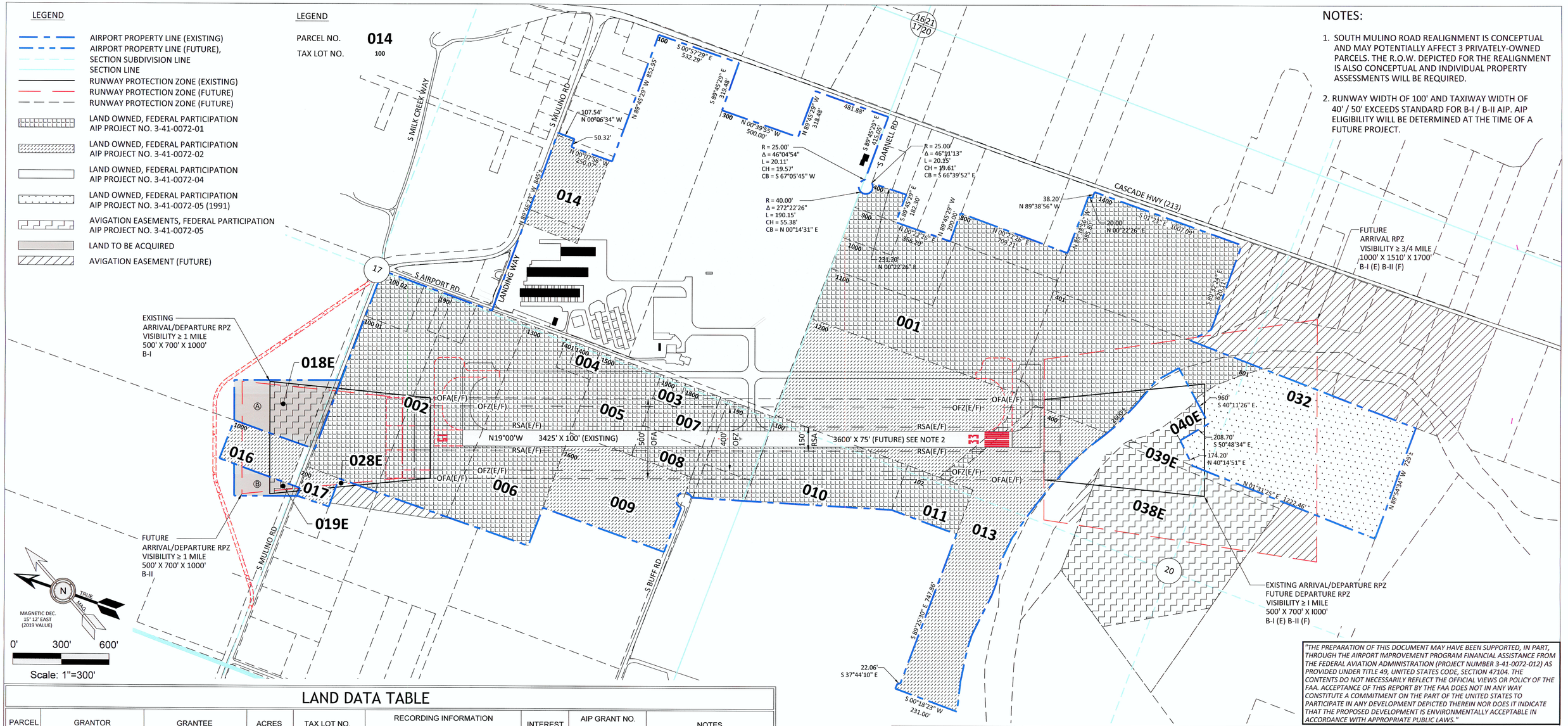
LEGEND

PARCEL NO. **014**

TAX LOT NO. **100**

NOTES:

1. SOUTH MULINO ROAD REALIGNMENT IS CONCEPTUAL AND MAY POTENTIALLY AFFECT 3 PRIVATELY-OWNED PARCELS. THE R.O.W. DEPICTED FOR THE REALIGNMENT IS ALSO CONCEPTUAL AND INDIVIDUAL PROPERTY ASSESSMENTS WILL BE REQUIRED.
2. RUNWAY WIDTH OF 100' AND TAXIWAY WIDTH OF 40' / 50' EXCEEDS STANDARD FOR B-I / B-II AIP. AIP ELIGIBILITY WILL BE DETERMINED AT THE TIME OF A FUTURE PROJECT.



LAND DATA TABLE

PARCEL	GRANTOR	GRANTEE	ACRES	TAX LOT NO.	RECORDING INFORMATION DATE	BOOK	PAGE	FEE NO.	INTEREST	AIP GRANT NO. NUMBER	YEAR	NOTES
001	KAPPLER	PORT OF PORTLAND	114.94	100, 300, 301, 302 400, 401, 801, 900 1000, 1100, 1400	3/28/88	-	-	87-1-153	FEE SIMPLE	01, 04	1984/1988	FOR DEVELOPMENT
002	ORRELL	PORT OF PORTLAND	28.77	100, 190	6/16/88	-	-	88-24125	FEE SIMPLE	01	1984	FOR DEVELOPMENT
003	PIPER, M.	PORT OF PORTLAND	0.45	1900	8/14/86	-	-	86-30599	FEE SIMPLE	01	1984	FOR DEVELOPMENT
004	NIMROD	PORT OF PORTLAND	1.50	1400	6/25/86	-	-	86-25660	FEE SIMPLE	01	1984	FOR DEVELOPMENT
005	DIETZ	PORT OF PORTLAND	4.80	1500	3/3/87	-	-	87-09292	FEE SIMPLE	01, 04	1984/1988	FOR DEVELOPMENT
006	PIPER, A	PORT OF PORTLAND	14.32	1300, 1401	9/11/87	-	-	87-1-183	FEE SIMPLE	01	1984	FOR DEVELOPMENT
007	LUTES	PORT OF PORTLAND	2.33	1800	1/23/87	-	-	87-03390	FEE SIMPLE	01	1984	FOR DEVELOPMENT
008	GAMBELL	PORT OF PORTLAND	1.83	1700	2/2/87	-	-	87-04654	FEE SIMPLE	01	1984	FOR DEVELOPMENT
009	LeBARRON	PORT OF PORTLAND	9.76	1600	4/10/87	-	-	57-15902	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
010	DAVIS	PORT OF PORTLAND	13.50	100, 190	1/6/87	-	-	87-00397	FEE SIMPLE	01	1984	FOR DEVELOPMENT
011	LEHL	PORT OF PORTLAND	3.00	102	3/12/87	-	-	87-10706	FEE SIMPLE	01	1984	FOR DEVELOPMENT
012	HAAK	PORT OF PORTLAND	17.63	1200	12/30/86	-	-	86-52724	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
013	GORDON	PORT OF PORTLAND	17.58	400	3/3/87	-	-	87-10238	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
014	HUDSON	PORT OF PORTLAND	4.08	800, 900	3/5/86	-	-	86-10319	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
015	ANDERSON	PORT OF PORTLAND	0.52	1000	5/12/86	-	-	86-22147	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
016	MABEN	PORT OF PORTLAND	3.00	1000	11/19/86	-	-	86-46421	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
017	HOCKADAY	PORT OF PORTLAND	0.88	200	1/15/87	-	-	87-02218	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
032	LARSON	PORT OF PORTLAND	18.30	801	12/8/88	-	-	88-51220	FEE SIMPLE	02	1985	FOR DEVELOPMENT / APPROACHES
	TOTAL AIRPORT ACREAGE		**257.19**									
-	PORT OF PORTLAND	OREGON DEPT. OF AVIATION	257.19	ALL TAXLOTS ABOVE	7/10/09	-	-	09-057789	FEE SIMPLE	N/A		BARGAIN & SALE DEED

PROPERTY TO BE ACQUIRED

PARCEL	OWNER	ACRES	TAX LOT NO.	RECORDING INFORMATION DATE	BOOK	PAGE	FEE NO.	INTEREST	AIP GRANT NO. NUMBER	YEAR	NOTES
Ⓐ	M&H FARMS LLC	-	-	8-03-2006	-	-	-	-	-		
Ⓑ	JOANNE GRUEN	-	-	2-16-2016	-	-	-	-	-		

AVIGATION EASEMENT

PARCEL	OWNER	ACRES	TAX LOT NO.	RECORDING INFORMATION DATE	BOOK	PAGE	FEE NO.	INTEREST	AIP GRANT NO. NUMBER	YEAR	NOTES
038E	KIRK	-	600	2/14/92	-	-	92-08435	-	05	1991	FOR APPROCHES
		-	600	9/19/96	-	-	96-069349				
039E	BAURER	-	802	2/14/92	-	-	92-08436	-	05	1991	FOR APPROCHES
040E	GRUEN	-	700	3/30/92	-	-	92-18059	-	05	1991	FOR APPROCHES
018E	GINGERICH	-	400	10/14/96	-	-	96-076270	-	05	1991	FOR APPROCHES
019E	GINGERICH	-	900	10/14/96	-	-	96-076270	-	05	1991	FOR APPROCHES
028E	ANDERSON	-	203	11/8/93	-	-	93-83331	-	05	1991	FOR APPROCHES

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MULINO STATE AIRPORT

EXHIBIT "A" AIRPORT PROPERTY PLAN

FIGURE NO. -

SHEET NO. 10 OF 10