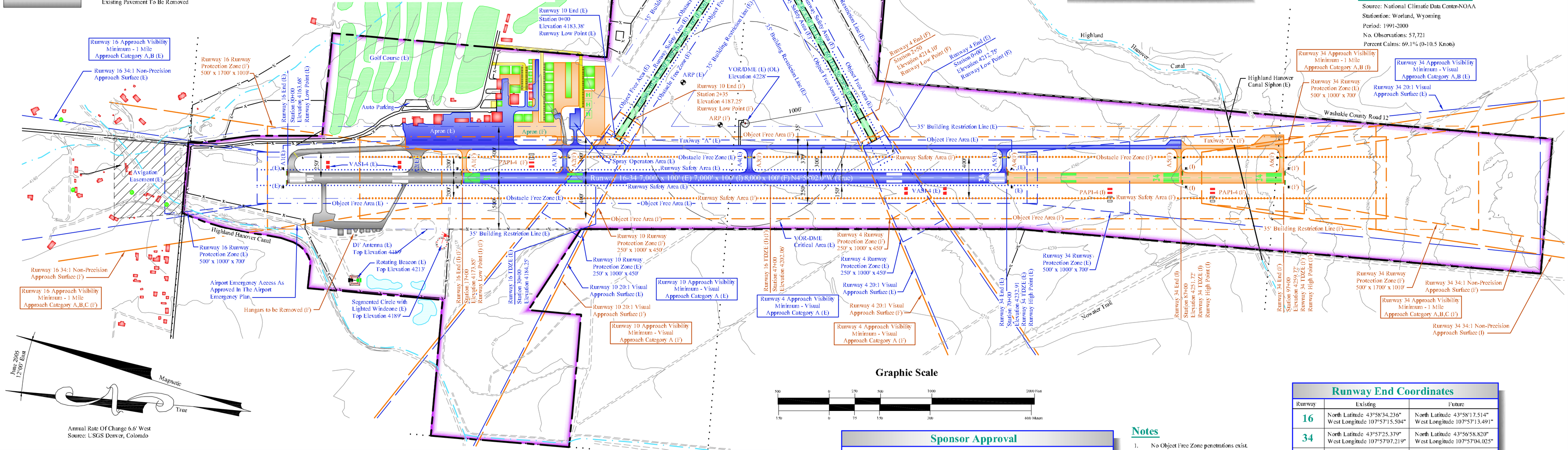
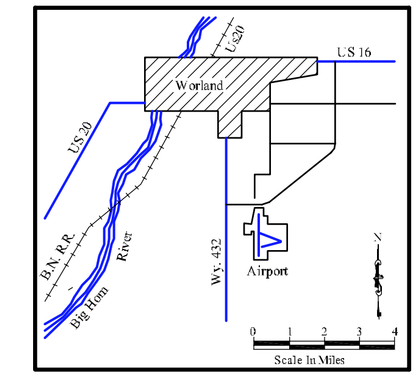
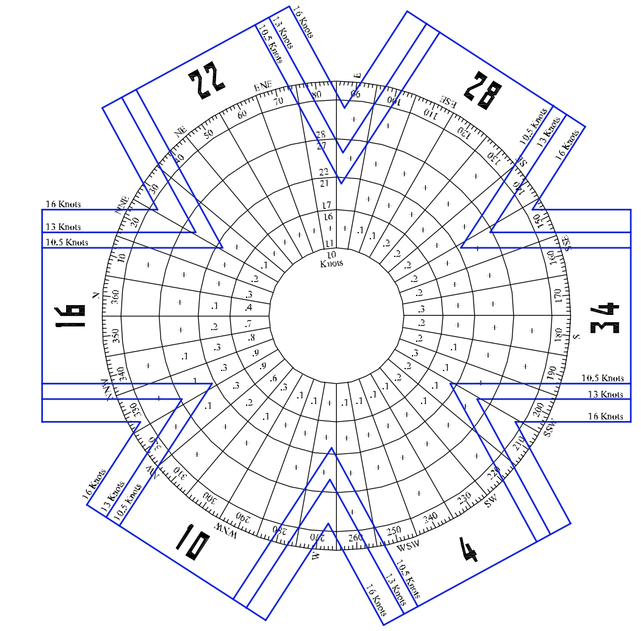
Legend

(E)	Existing
(I)	Initial
(F)	Future
(R)	Remove/Relocate
	Existing Property Line
	Future Property Line
	Building Restriction Line (BRL)
	Runway Protection Zone (RPZ)
	Approach Surface
	Object Free Area (OFA)
	Runway Safety Area (RSA)
	Obstacle Free Zone (OFZ)
	Runway Visibility Zone (RVZ)
	Existing Fence
	Future Fence
	Section Line
	Dirt Road
	Existing Paved Roads
	Future Paved Roads
	Existing Pavement
	Future Pavement
	Existing Pavement To Be Removed
	Existing Buildings
	Future Buildings
	Existing Buildings To Be Removed
	Existing Avigation Easement
	Drainage Line
	Contour Line
	Threshold Lights
	Runway End Identifier Lights (REIL)
	Section Corner
	Precision Approach Path Indicators (PAPI-4)
	Visual Approach Slope Indicators (VASI-4)
	Runway Hold Position Sign
	Airport Reference Point (ARP)
	Segmented Circle With Lighted Wind Cone
	Rotating Beacon





airport Vicinity Map



All-weather Wind Rose

Source: National Climatic Data Center-NOAA
Stationtion: Worland, Wyoming
Period: 1991-2000
No. Observations: 57,721
Percent Calms: 69.1% (0-10.5 Knots)

Wind Coverage

Runway	10.5 Knots	13 Knots	16 Knots
16-34	97.50%	98.88%	99.64%
4-22	91.82%	94.71%	97.82%
10-28	95.46%	97.50%	99.19%
16-34 & 4-22 Combined	98.42%	99.45%	99.84%
16-34 & 10-28 Combined	99.24%	99.69%	99.87%
4-22 & 10-28 Combined	97.33%	99.04%	99.72%
16-34, 4-22 & 10-28 Combined	99.83%	99.96%	99.98%

Runway Data

	Runway 16-34			Runway 4-22		Runway 10/28	
	Existing	Initial	Future	Existing	Future	Existing	Future
Effective Gradient (In percent)	0.99	1.11	1.07	0.54	Same	1.89	Same
Percent Wind Coverage (10.5/13/16 Knots)	97.50 / 98.88 / 99.64	Same	Same	91.82 / 94.71 / 97.82	Same	95.46 / 97.50 / 99.19	Same
FAR Part 77 Approach Surfaces (Slope)	(16) 34:1 / (34) 20:1	(16) 34:1 / (34) 34:1	(16) 34:1 / (34) 34:1	(4) 20:1 / (22) 20:1	Same	(10) 20:1 / (28) 20:1	Same
Instrument Runway	Yes - Non-Precision	Same	Same	No	Same	No	Same
Touchdown Zone Elevation (TDZE)	(16) 4184.25' / (34) 4232.91'	(16) 4202.06' / (34) 4251.72"	(16) 4202.06' / (34) 4259.72'	(4-22) 4224.92'	Same	(10-28) 4230.60'	Same
Runway Lighting	MIRL	Same	Same	None	Same	None	Same
Runway Marking	Non-Precision	Same	Same	None	Same	None	Same
Electronic Navigational Aids	VOR-DME / GPS	Same	Same	None	Same	None	Same
Visual Approach Aids	VASI-4, REIL (16) (34)	PAPI-4, REIL (16) (34)	PAPI-4, REIL (16) (34)	None	Same	None	Same
Runway Length	7,000'	7,000'	8,000'	2,240'	1,990'	2,500'	2,265'
Runway Width	100'	Same	Same	60'	Same	60'	Same
Pavement Type	Asphalt (PI'C on North 4350')	Asphalt - Grooved	Asphalt - Grooved	Dirt	Same	Dirt	Same
Pavement Design Strength (1,000 lbs)	55.0 DWG	70.0 DWG	70.0 DWG	4.0 SWG	Same	4.0 SWG	Same
Runway Safety Area Length / Width	7,600' / 150'	9,000' / 400'	10,000' / 400'	2,720' / 120'	2,470' / 120'	2,980' / 120'	2,745' / 120'
Runway Object Free Area Length / Width	7,600' / 500'	9,000' / 800'	10,000' / 800'	2,720' / 250'	2,470' / 250'	2,980' / 250'	2,745' / 250'
Runway Obstacle Free Zone Length / Width	7,400' / 400'	7,400' / 400'	8,400' / 400'	2,640' / 250'	2,550' / 250'	2,900' / 250'	2,665' / 250'
Approach Category And Design Group	B-II	B-II	C-II	A-1 (Small Aircraft)	Same	A-1 (Small Aircraft)	Same
Critical Aircraft	Beech 1900	Beech 1900	Gulfstream III	Cessna 210	Same	Cessna 210	Same
Approach Speed (Approach Category)	120 Knots (B)	120 Knots (B)	136 Knots (C)	75 Knots (A)	Same	75 Knots (A)	Same
Wingspan (Design Group)	54.5' (II)	54.5' (II)	77.8' (II)	36.8' (I)	Same	36.8' (I)	Same
Weight	19,300 lbs	19,300 lbs	98, 700 lbs	4,000 lbs	Same	4,000 lbs	Same
Length Of Haul (Aircraft Over 60,000 lbs)	N/A	N/A	500 Miles	N/A	Same	N/A	Same
Taxiway Width	35'	Same	Same	None	Same	None	Same
Taxiway Lighting	MITL	Same	Same	None	Same	None	Same
Approach Visibility Minimums	(16) 1 Mile / (34) Visual	(16) 1 Mile / (34) 1 Mile	(16) 1 Mile / (34) 1 Mile	(4) Visual / (22) Visual	Same	(10) Visual / (28) Visual	Same
Runway Maximum Grade (In percent)	1.50	1.50	Same	0.54	Same	2.77	Same
Faa Line of Sight (Longitudinal)	Meets Standards	Same	Same	Meets Standards	Same	Meets Standards	Same
Runway End Elevation	(16) 4163.68' / (34) 4232.91'	(16) 4173.85' / (34) 4251.72'	(16) 4173.85' / (34) 4259.72'	(4) 4212.75' / (22) 4224.92'	(4) 4214.10' / (22) 4224.92'	(10) 4183.38' / (28) 4230.60'	(10) 4187.25' / (28) 4230.60'
Displaced Threshold Elevation	N/A	Same	Same	N/A	Same	N/A	Same
Runway Intersection Elevations	N/A	Same	Same	N/A	Same	N/A	Same
Runway Highflow Point Elevation	4232.91' / 4163.68'	4251.72' / 4173.85'	4259.72' / 4173.85'	4224.92' / 4212.75'	4224.92' / 4214.10'	4230.60' / 4183.38'	4230.60' / 4187.25'
Takeoff Runway Available (TORA)	(16) 7,000' / (34) 7,000'	(16) 7,000' / (34) 7,000'	(16) 8,000' / (34) 8,000'	(4) 2,240' / (22) 2,240'	(4) 1,990' / (22) 1,990'	(10) 2,500' / (28) 2,500'	(10) 2,265' / (28) 2,265'
Takeoff Distance Available (TODA)	(16) 7,000' / (34) 7,000'	(16) 7,000' / (34) 7,000'	(16) 8,000' / (34) 8,000'	(4) 2,240' / (22) 2,240'	(4) 1,990' / (22) 1,990'	(10) 2,500' / (28) 2,500'	(10) 2,265' / (28) 2,265'
Accelerate Stop Distance Available (ASDA)	(16) 7,000' / (34) 7,000'	(16) 7,000' / (34) 7,000'	(16) 8,000' / (34) 8,000'	(4) 2,240' / (22) 2,240'	(4) 1,990' / (22) 1,990'	(10) 2,500' / (28) 2,500'	(10) 2,265' / (28) 2,265'
Landing Distance Available (LDA)	(16) 7,000' / (34) 7,000'	(16) 7,000' / (34) 7,000'	(16) 8,000' / (34) 8,000'	(4) 2,240' / (22) 2,240'	(4) 1,990' / (22) 1,990'	(10) 2,500' / (28) 2,500'	(10) 2,265' / (28) 2,265'

Note: 1. Runway 4 end is to be relocated 250' northeast to meet runway / taxiway safety area clearance standards.
2. Runway 10 end is to be relocated 235' east to meet runway / taxiway safety area clearance standards.

Sponsor Approval

City of Worland

Mayor _____ Date _____

Notes

1. No Object Free Zone penetrations exist.
2. No Threshold Siting Surface object penetrations exist.

Airport Data

	Existing	Future
Airport Elevation	4232.91'	4259.72'
Airport Reference Point (ARP) Coordinates (NAD 83)	North Latitude 43°57'57.155" West Longitude 107°56'58.288"	North Latitude 43°57'53.267" West Longitude 107°57'03.489"
Mean Daily Max. Temp. - Hottest Month	91.2° - July	Same
Magnetic Variation (June 2005)	12°00' East	Annual Change = 6.6' West
Airport And Terminal Electronic Navigational Aids	Beacon, VOR	Beacon, VOR, GPS
Percent Wind Coverage (10.5/13/16 Knots)	99.83 / 99.96 / 99.98	Same
Airport Approach Category And Design Group	B-II	C-II
NPIAS Service Role	Commercial Service	Same
Taxiway Lighting	MITL	Same
Taxiway Marking	Centerline	Same

Notes:
1. Airport Benchmark - Brass Cap Set In Concrete Hangar Floor Elevation 4173.66' (NGVD 1929) Runway 16-34 Station 9+00, 543' Left.
2. No Buildings, Structures or Fences Allowed Within 1000' VOR Critical Area

Runway End Coordinates

Runway	Existing	Future
16	North Latitude 43°58'34.236" West Longitude 107°57'15.504"	North Latitude 43°58'17.514" West Longitude 107°57'13.491"
34	North Latitude 43°57'25.379" West Longitude 107°57'07.219"	North Latitude 43°56'58.820" West Longitude 107°57'04.025"
4	North Latitude 43°57'39.268" West Longitude 107°57'01.593"	North Latitude 43°57'39.726" West Longitude 107°57'00.984"
22	North Latitude 43°57'51.342" West Longitude 107°56'35.931"	Same
10	North Latitude 43°58'03.529" West Longitude 107°57'07.323"	North Latitude 43°58'01.916" West Longitude 107°57'03.714"
28	North Latitude 43°57'51.748" West Longitude 107°56'37.284"	Same

Note: All Coordinates In NAD 83

Modification To Design Standards

Runway	Item	Standard	Comments
None Required			

Approval Date: _____ Airspace Case No. _____

The preparation of these drawings was financed, in part, through a planning grant from the Federal Aviation Administration (FAA), as provided under Section 505 of the Airport and Airway Improvement Act of 1982, and as amended by the Airport and Airway Safety and Capacity Expansion Act of 1987, as amended. The contents do not necessarily reflect the official views of the FAA. Acceptance of these drawings does not in any way constitute a commitment on the part of the United States to participate in any development depicted herein, nor does it indicate that the proposed development is environmentally acceptable in accordance with appropriate public laws.

No.	Revision	Ckd	Date

Worland Municipal Airport
Worland, Wyoming

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A.I.P. Project Number: 3-56-0031-16

Project No:	WRL1114M		
Designed By:	JIS	Drawn By:	JIS
Approved By:	JIS	Date:	September 2006

Airport Layout Plan

Exhibit: I of XV Exhibits