

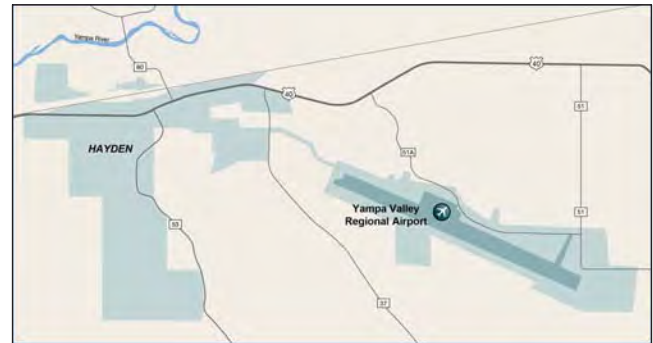
AIRPORT LAYOUT PLAN DRAWING SET

YAMPA VALLEY REGIONAL AIRPORT

HAYDEN, COLORADO



LOCATION MAP
N.T.S.



VICINITY MAP
N.T.S.

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SPONSOR APPROVAL

ACCEPTED: ROUTT COUNTY

DATE

I:\Projects\HDN\2012\AUP\2012A.PLANSET

YAMPA VALLEY REGIONAL AIRPORT
STEAMBOAT SPRINGS • HAYDEN • CRAIG

DES: B.L.R.	ISSUE RECORD			
	NO.	BY	DATE	DESCRIPTION
DR: B.L.R.	1	S.V.B.	3/7/2017	FINAL
CH: S.E.S.				
APP: D.F.N.				

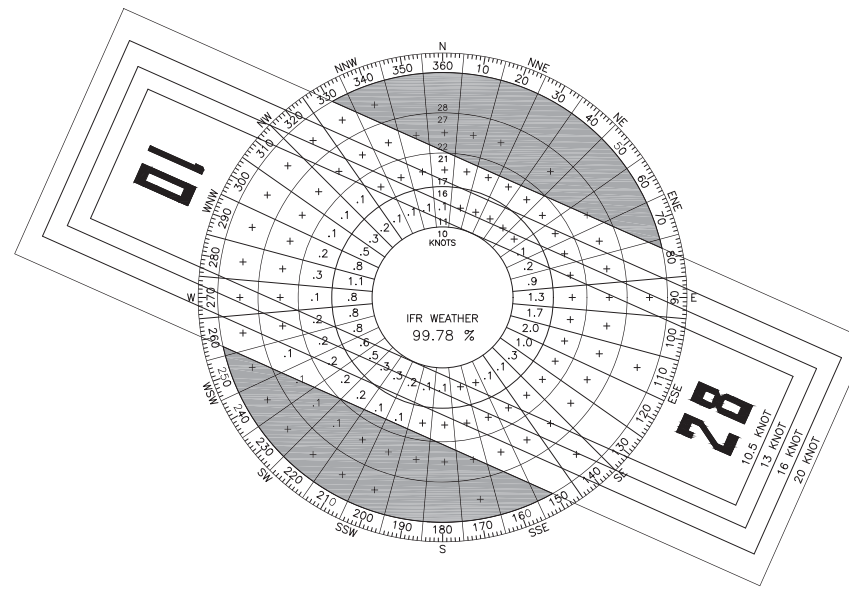
THE PREPARATION OF THIS DOCUMENT MAY HAVE BEEN SUPPORTED, IN PART, THROUGH THE AIRPORT IMPROVEMENT PROGRAM FINANCIAL ASSISTANCE FROM THE FEDERAL AVIATION ADMINISTRATION AS PROVIDED UNDER TITLE 49 U.S.C., SECTION 47104. THE CONTENTS DO NOT NECESSARILY REFLECT THE OFFICIAL VIEWS OR POLICY OF THE FAA. ACCEPTANCE OF THIS AIRPORT LAYOUT PLAN BY THE FAA DOES NOT IN ANY WAY CONSTITUTE A COMMITMENT ON THE PART OF THE UNITED STATES TO PARTICIPATE IN ANY DEVELOPMENT DEPICTED THEREIN NOR DOES IT INDICATE THAT THE PROPOSED DEVELOPMENT IS ENVIRONMENTALLY ACCEPTABLE OR WOULD HAVE JUSTIFICATION IN ACCORDANCE WITH APPROPRIATE PUBLIC LAWS.

AIRPORT LAYOUT PLAN

COVER SHEET		
CDAG GRANT NO. 2013-HDN-01	JVIAATION PROJ. NO. 2012.HDN.02	DATE: MARCH, 2017

SHEET NO.
01 of 16

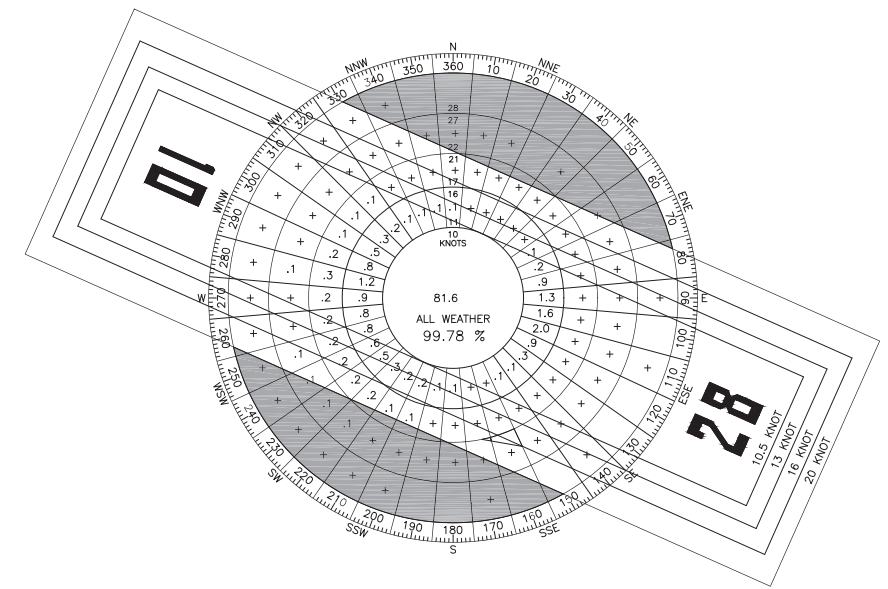
AIRPORT DATA TABLE		
ITEM	EXISTING	FUTURE
AIRPORT REFERENCE CODE (ARC)	C-IV	SAME
MEAN MAX. TEMP. - HOTTEST MONTH	87.2° (JULY)	SAME
AIRPORT ELEVATION (MSL)	6,606.30'	SAME
AIRPORT & TERMINAL NAVAIDS	BEACON, LIGHTED WIND CONE, HIRL, PAPI, REIL, MALSF, ILS, AWOS-3, MITL	SAME
AIRPORT REFERENCE POINT (ARP)	LATITUDE 40°28'52.25" N LONGITUDE 107°13'03.58" W	SAME
CRITICAL AIRCRAFT	BOEING 757-200	SAME
WINGSPAN	125'	SAME
TAIL HEIGHT	45.1'	SAME
MAX. T.O. WEIGHT	255,000 LBS	SAME
UNDERCARRIAGE	10 WHEELS [1x2] + [2x4]	SAME
APPROACH SPEED	137 KNOTS	SAME
* MAGNETIC VARIATION	9°47'19"E	SAME
NPIAS SERVICE LEVEL	CHANGING BY 7.9' ANNUALLY NON-HUB PRIMARY	SAME
NPIAS STATE EQUIVALENT SERVICE ROLE	COMMERCIAL SERVICE	SAME
* SOURCE: "NATIONAL GEOPHYSICAL DATA CENTER" 12/2013		



IFR WEATHER WINDROSE	20 KNOT CROSSWIND COMPONENT	16 KNOT CROSSWIND COMPONENT	13 KNOT CROSSWIND COMPONENT	10.5 KNOT CROSSWIND COMPONENT
RUNWAY DESIGNATION				
RUNWAY 10/28	99.78%	99.28%	98.27%	96.95%

SOURCE: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION.
NATIONAL CLIMATIC DATA CENTER
STATION #72571 - HAYDEN/YAMPA, COLORADO.
PERIOD OF RECORD - 2000-2009.

WIND ANALYSIS TABULATION PROVIDED BY JVIATION UTILIZING THE FAA AIRPORT GIS STANDARD WIND ANALYSIS TOOL PROVIDED AT AIRPORTS-GIS.FAA.GOV



ALL WEATHER WINDROSE	20 KNOT CROSSWIND COMPONENT	16 KNOT CROSSWIND COMPONENT	13 KNOT CROSSWIND COMPONENT	10.5 KNOT CROSSWIND COMPONENT
RUNWAY DESIGNATION				
RUNWAY 10/28	99.78%	99.29%	98.31%	97.0%

SOURCE: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION.
NATIONAL CLIMATIC DATA CENTER
STATION #72571 - HAYDEN/YAMPA, COLORADO.
PERIOD OF RECORD - 2000-2009.

WIND ANALYSIS TABULATION PROVIDED BY JVIATION UTILIZING THE FAA AIRPORT GIS STANDARD WIND ANALYSIS TOOL PROVIDED AT AIRPORTS-GIS.FAA.GOV

RUNWAY DATA TABLE					
ITEM	RUNWAY 10/28		FUTURE		
	EXISTING	28	10	28	
RUNWAY IDENTIFIER	10	28	10	28	
RUNWAY DESIGN CODE (RDC)	C-IV-2400				SAME
RUNWAY REFERENCE CODE (RRC)	C-IV-2400				SAME
RUNWAY WIDTH AND LENGTH	150' x 10,000'				SAME
RUNWAY SURFACE COMPOSITION	GROOVED ASPHALT				SAME
PAVEMENT DESIGN STRENGTH (LBS)					
SINGLE WHEEL GEAR (SWG)	75,000				SAME
DUAL WHEEL GEAR (DWG)	170,000				SAME
DUAL TANDEM GEAR (DTG)	260,000				SAME
PERCENT EFFECTIVE GRADIENT	* 0.23%				SAME
PERCENT WIND COVERAGE					
10.5 KNOT ALL WEATHER	98.89%				SAME
MC	98.89%				SAME
20 KNOT ALL WEATHER	99.99%				SAME
MC	99.99%				SAME
DISPLACED THRESHOLD ELEVATION	6,583.7'	N/A			SAME
TOUCHDOWN ZONE ELEVATION (TDZE)	6,591.4'	6,606.3'			SAME
RUNWAY SAFETY AREA DIMENSIONS (RSA)	500' x 12,000'				SAME
RUNWAY OBJECT FREE AREA (ROFA)	800' x 12,000'				SAME
OBSTACLE FREE ZONE (OFZ)	400' x 10,400'				SAME
RUNWAY LIGHTING	HIGH INTENSITY (HIRL)				SAME
APPROACH RUNWAY PROTECTION ZONE (RPZ)	1,000' x 1,750' x 2,500'	500' x 1,010' x 1,700'			SAME
DEPARTURE RUNWAY PROTECTION ZONE (RPZ)	500' x 1,010' x 1,700'	500' x 1,010' x 1,700'			SAME
RUNWAY MARKING	PRECISION	PRECISION			SAME
APPROACH CATEGORY	50:1	34:1			SAME
APPROACH TYPE	PRECISION	NON-PRECISION			SAME
VISIBILITY MINIMUMS	> 1 MILE	≤ 1 MILE			SAME
TYPE OF AERONAUTICAL SURVEY FOR APPROACH	VERTICALLY GUIDED	VERTICALLY GUIDED			SAME
RUNWAY DEPARTURE SURFACE	YES	YES			SAME
THRESHOLD SITTING SURFACE (TSS)	34:1	20:1			SAME
TSS PENETRATIONS	ROAD	ROAD			SAME
VISUAL AND INSTRUMENT NAVAIDS	PAPI, VOR/DME, ILS, MALSF, RNAV(GPS)	PAPI, REIL, VOR/DME, RNAV(GPS)			SAME
TAXIWAY					
WIDTH	75'				SAME
SAFETY AREA DIMENSIONS (TSA)	171'				SAME
OBJECT FREE AREA (TOFA)	259'				SAME
TAXIWAY EDGE SAFETY MARGIN (TESM)	15'				SAME
SEPARATION DISTANCE (CENTERLINE TO FIXED/MOVEABLE OBJECT)	100'				SAME
OBJECTS WITHIN TAXIWAY SAFETY AREA	WINDCONE				SAME
LIGHTING	MEDIUM INTENSITY (MITL)				SAME
TAXILANE SEPARATION	112.5'				SAME
TAXILANE WIDTH	N/A				35'
TAXILANE OBJECT FREE AREA	225'				SAME

* VERTICAL CURVES ARE PRESENT IN THE RUNWAY 10/28 CENTERLINE PROFILE IN THE LAST QUARTER (2,500') OF BOTH RUNWAY ENDS. THE VERTICAL CURVES EXTEND FROM RUNWAY 10/28 CENTERLINE STATION 28+20.44 TO 31+20.44 AND FROM 100+82.95 TO 105+82.95.

RUNWAY END DATA		
ITEM	RUNWAY 10/28	
	EXISTING	FUTURE
RUNWAY END ELEVATIONS	(10) 6,580.4' (28) 6,606.2'	SAME
TOUCHDOWN ZONE ELEVATIONS	(10) 6,591.4' (28) 6,606.3'	SAME
RUNWAY END COORDINATES	(10) LAT: 40°29'12.13"N LONG: 107°14'02.82"W (28) LAT: 40°28'32.37"N LONG: 107°12'04.38"W	SAME
DISPLACED THRESHOLD ELEVATIONS	(10) 6,583.7' (28) N/A	SAME
DISPLACED THRESHOLD COORDINATES	(10) LAT: 40°29'10.10"N LONG: 107°13'56.77"W (28) N/A	SAME

NOTE: ALL HORIZONTAL COORDINATES - NAD83/2011
ALL VERTICAL COORDINATES - NAVD88

DECLARED DISTANCES								
RUNWAY	TAKEOFF RUN AVAILABLE (TORA)		TAKEOFF DIST. AVAILABLE (TODA)		ACCELERATE STOP DIST. AVAILABLE (ASDA)		LANDING DIST. AVAILABLE (LDA)	
	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE	EXISTING	FUTURE
10	10,000'	SAME	10,000'	SAME	10,000'	SAME	9,490'	SAME
28	10,000'	SAME	10,000'	SAME	10,000'	SAME	10,000'	SAME

NAVIGATIONAL AND COMMUNICATION AIDS				
	EXISTING		FUTURE	
	AIRPORT	FAA	AIRPORT	FAA
OWNER				
RUNWAY 10 GLIDESLOPE		X		X
RUNWAY 10 LOCALIZER		X		X
LOCALIZER TYPE DIRECTIONAL AID (LDA)/DISTANCE MEASURING EQUIPMENT (DME)		X		X
RUNWAY 10 PRECISION APPROACH PATH INDICATOR (PAPI)		X		X
RUNWAY 28 PRECISION APPROACH PATH INDICATOR (PAPI)	X		X	
RUNWAY 10 MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH SEQUENCED FLASHERS (MALSF)		X		X
RUNWAY 28 END IDENTIFIER LIGHTS (REIL)		X		X
AIRPORT ROTATING BEACON	X		X	
LIGHTED WINDCONE AND SEGMENTED CIRCLE	X		X	
AUTOMATED WEATHER OBSERVATION SYSTEM (AWOS)		X		X
HIGH INTENSITY RUNWAY LIGHTS (HIRL) (MEDIUM AND LOW INTENSITY AVAILABLE)	X		X	
MEDIUM INTENSITY TAXIWAY LIGHTS (MITL)	X		X	

MODIFICATION TO STANDARDS			
APPROVAL DATE	AIRSPACE CASE NO.	STANDARD TO BE MODIFIED	DESCRIPTION
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	NO.	BY	DATE	DESCRIPTION
DR: B.L.R.	1	S.V.B.	3/7/2017	FINAL
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