CHAPTER 5. AIRPORT DATA FEATURES

The following paragraphs list the airport feature descriptions defining the specifications for each feature group and class. Utilize the specifications defined to ensure the data delivered is accurate and meets standards. Each feature is described by geometry type, feature group, sensitivity, requirements, positional accuracy, data capture rule, and the attributes required to provide the data to the FAA.

5.1. FEATURE DOCUMENTATION MINIMUMS

In addition to the general feature documentation outlined in paragraphs 1.6.2 and 1.6.3, certain features require additional or expanded documentation. Where required for a feature, the additional requirements are identified in the Documentation and Submission section of the feature description.

5.2. MULTIPLE INSTANCES OF FEATURES

5.3. FEATURE CLASS DESCRIPTION LEGEND

The following table identifies how each feature description is setup and provides information on what is contained within the section.

5.3.1. Paragraph Number and FeatureClassName

5.3.1. Paragraph Number and FeatureClassName				
Definition: Definition of feature.				
The Feature Gro	The Feature Group of the element.			
The proper name	of the Feature Cl	ass.		
The compliant ge	eometry of element	•		
nts				
	Descr	ription		
	Compliant layer d	escription. [Siting]	1	
Color	Line type	Line Weight	Symbol	
Color code		Line weight		
AutoCAD	Line type	AutoCAD	Symbol type is	
Color code	required	Line weight	user defined	
MicroStation		MicroStation		
Security level credential				
AIXM AIXM equivalent of feature.				
FGDC	FGDC equivalen	t of feature.		
SDSFIE	SDSFIE equivale	ent of feature.		
The required doc	rumentation for fea	ture class elements	s. Minimum	
expanded docun	nentation requirem	ents are located he	re.	
tion of proper colle	ection limits and re	equirements for fed	ıture class	
Monumentation requirements.				
Horizontal Vertical				
Description of sp	pecific HSP	Description of sp	ecific VSP	
location.			location.	
	The Feature Gro The proper name The compliant gents Color Color code AutoCAD Color code MicroStation Security level cre AIXM FGDC SDSFIE The required docrequirements are expanded documents are expanded documents of proper collection of proper collection of specific proper co	The Feature Group of the element. The proper name of the Feature Classification The compliant geometry of element The compliant geometry of element The compliant geometry of element Color Compliant layer d Color Code AutoCAD Line type Color code AutoCAD Color code AutoCAD Aline type Color code Aline type Follor code Aline type Color code Aline type Follor code Aline type Color code Aline type Follor code Aline type Follor code Follor code Follor code Follor code Aline type Follor code Follow	The Feature Group of the element. The proper name of the Feature Class. The compliant geometry of element. The Description Compliant layer description. [Siting] Color Line type Line Weight Color code Line type AutoCAD Color code required Line weight MicroStation MicroStation Security level credential AIXM AIXM equivalent of feature. FGDC FGDC equivalent of feature. SDSFIE SDSFIE equivalent of feature. The required documentation for feature class elements requirements are defined in paragraphs 1.6.2 and 1.6.3 expanded documentation requirements are located he tion of proper collection limits and requirements for feature. Monumentation requirements. Horizontal Ver Description of specific HSP Description of sp	

	Horizontal	Vertical		
Accuracy Requirements (in	Horizontai	Orthometric	Ellipsoidal	
feet)	Accuracy requirement	Accuracy	Accuracy	
	Accuracy requirement	requirement	requirement	
	Geographic Coordinates	Distances and Elevations		
Resolution	Coordinate resolution Coordinate resolu		e resolution	
	requirement	requirement		
Feature Attributes				
Attribute (Datatype)	Description			
Name of attribute field	Description of attribute specifications			

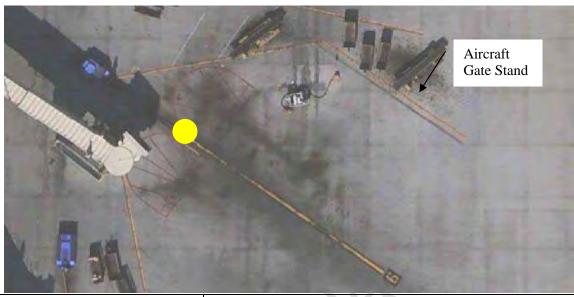
5.4. Group: AIRFIELD

5.4.1. Aircraft Gate Stand

Definition: Geographic position of painted stand positions on the stand guidance line usually marked						
by a yellow crossbar according	to aircraft type (e.	g., for B-747, A-340	0).			
Feature Group	Airfield					
Feature Class Name	AircraftGateStan	d				
Feature Type	Point					
CADD Standard Requiremen	ts					
Layer/Level		Descri	ption			
C-APRN-ACPK	Aircraft gate/stand parking area					
	Color Linetype Line Weight Symbol					
AutoDesk Standards	6 Continuous 1 MM Hear Defin					
MicroStation Standards	5	Continuous User Defined				
Sensitivity	Restricted					
	AIXM	ApronElement		Core		
Equivalent Standards	FGDC	AircraftGateStand	d			
	SDSFIE airfield_surface_site					
Documentation and No documentation is required for this feature.						
Submission Requirements No documentation is required for this feature.						

Related Features

Data Capture Rules: Collect the aircraft gate stand as individual points with a separate feature for each defined location. If a generic location is defined, ensure the length and wingspan attributes cover all the appropriate aircraft expected to use the location.



Monumentation	No monumentation required.			
Currey Daint Leastion	Horizontal	Vertical		
Survey Point Location	N/A	N/A	1	
A D : 4 (:	Harizontal	Verti	Vertical	
Accuracy Requirements (in	Horizontal	Orthometric	Ellipsoidal	
feet)	± 3 ft	± 5 ft	N/A	
Resolution	Geographic Coordinates	Distances and	Elevations	
Resolution	Hundredth of arc second	Nearest	foot	
Feature Attributes				
Attribute (Datatype)	Descr	ription		
name (String 30)	The name of the feature.			
identifier (Number 38)	Primary Key. A globally uniqu	ie identifier assign	ed to the	
	instance of a feature type.			
description (String 255)	Description of the feature.			
gateStandType	The type of aircraft gate/stand.			
(Enumeration: codeGateStandTy	pe)			
Status (Enumeration: codeStatus)	A temporal description of the o		f the feature.	
	This attribute is used to describ	e real-time status.		
wingspan (Number)	The quantity representing the n		n which can	
	be accommodated at the aircraft			
length (Number)	The overall length of the aircra			
width (Number)	The overall width of the aircraft			
userFlag (String 254)		An operator-defined work area. This attribute can be used by		
		the operator for user-defined system processes. It does not		
		affect the subject item's data integrity and should not be used to		
	store the subject item's data.			
pavementClassificationNumber		A number which expresses the relative load carrying capacity		
	of a pavement in terms of a star	ndard single wheel	load.	

	[Source: AC 150/5335-5]
jetwayAvailability (boolean)	Indicates if a jetway or passenger loading bridge is available
	for use at the designated location.
towingAvailability (boolean)	Indicates if towing is available at the designated location.
dockingAvailability (boolean)	Indicates if docking light system is available at the designated
	location.
groundPowerAvailability (boolean)	Indicates the availability of ground power at the designated
	location.
surfaceType (Enumeration:	A classification of airfield pavement surfaces for Airport
codeSurfaceType)	Obstruction Charts [Source: NGS]
surfaceCondition (Enumeration:	A description of the serviceability of the pavement [Source:
codeSurfaceCondition)	NFDC]
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.4.2. Aircraft Non Movement Area

Definition: Taxiways and apron (ramp) areas not under the control of air traffic.				
Feature Group	Airfield			
Feature Class Name	AircraftNonMo	ovementArea		
Feature Type	Line			
CADD Standard Requirements	5	7.0.		
Layer/Level	Description			
C-APRN-ANOM-	Aircraft non-movement area			
C-AIRF-DSRF-NMOV	Aircraft non-movement area			
	Color	Linetype	Line Weight	Symbol
AutoDesk Standards	7	Continuous	1 MM	User Defined
MicroStation Standards	0	Continuous		User Defined
Sensitivity	Restricted			
	AIXM	NonMovementArea Core		Core
Equivalent Standards	FGDC	AircraftNonMove	ementArea	
	SDSFIE None			
Documentation and Submission Requirements	None			

Related Features

Data Capture Rules: The non-movement area is an area where aircraft are not under the direct control of Air Traffic Control and are responsible for their own separation from aircraft, vehicles and objects. Two parallel yellow lines located side by side delineate the area. One line is dashed and the other is solid. The dashed side is the movement area and the solid side is the non-movement area. Compile this line as a single line drawn mid-way between the solid and dashed lines. If using symbolized line note direction of line in data capture to ensure solid side of line is on Non-movement area.



Aircraft non-movement area boundary line.

Monumentation	No monumentation required.			
Survey Point Leastion	Horizontal	Vertical		
Survey Point Location	N/A	N/A		
A course on Deceminants (in	Horizontal	Vertical		
Accuracy Requirements (in feet)	Horizontai	Orthometric	Ellipsoidal	
leet)	± 3 ft	± 5 ft	N/A	
Resolution	Geographic Coordinates	Distances and Elevations		
Resolution	Hundredth of arc second	Nearest foot		

Feature	Attributes

reature Attributes			
Attribute (Datatype)	Description		
name (String 30)	The name of the feature.		
identifier (Number 38)	Primary Key. A globally unique identifier assigned to the		
	instance of a feature type.		
description (String 255)	Description of the feature.		
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.		
	This attribute is used to describe real-time status.		
userFlag (String 254)	An operator-defined work area. This attribute can be used by		
	the operator for user-defined system processes. It does not		
	affect the subject item's data integrity and should not be used to		
	store the subject item's data.		
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together		
	into a version.		

5.4.3. Air Operations Area

Definition: Air Operations Area is where security measures are enforced as specified in the airport security program. This area includes aircraft movement areas, aircraft parking areas, loading ramps, and safety areas and any adjacent areas (such as general aviation areas) not separated by adequate security systems, measures, or procedures. [Source: 49 CFR Part 1542, Airport Security]

Feature Group	Airfield
Feature Class Name	AirOperationsArea
Feature Type	Polygon

CADD Standard Requiremen	nts				
Layer/Level	Description				
C-AIRF-AHOA-	Air Operations Area				
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	2	Continuous	1 MM	User Defined	
MicroStation Standards	4	Continuous	7	User Defined	
Sensitivity	Unclassified				
	AIXM	AirOperationsAi	·ea	Extension	
Equivalent Standards	FGDC	AirOperationsAi	rea		
	SDSFIE	None			
Documentation and Submission Requirements	None			7/2	
Related Features					
Data Capture Rules: Collect	a closed polygon	to the greatest horiz	zontal extents as de	fined by the	
airport security plan.	1 10				
Monumentation	No monumenta	tion required.			
Survey Point Location	Horizontal		Vertical		
Survey Foint Location		N/A	N/	N/A	
Accuracy Requirements (in	Horizontal		Vertical Orthometric Ellipsoidal		
feet)	1101	Horizontai		Ellipsoidal	
ieet)	± 3 ft		± 5 ft	N/A	
Resolution	Geographic Coordinates		Distances and Elevations		
Resolution	Hundredth	of arc second	Nearest foot		
Feature Attributes					
Attribute (Datatype)		De	scription		
name (String 50)	The nam	e of the feature.			
identifier	Primary	Key. A globally uni	que identifier assig	gned to the	
(Number 38)	instance	of a feature type.			
description (String 255)	100	ion of the feature			
status (Enumeration: codeStatu	A temporal description of the operational status of the feature. This attribute is used to describe real-time status.				
userFlag (String 254)		ntor-defined work ar			
		ntor for user-defined			
		e subject item's data			
	store the subject item's data.				
Alternative (Integer2)		nator used to tie feat	tures of a plan or po	oroposal	
	together into a version.				

5.4.4. Airfield Light

Definition: Any lighting located within or near an airport boundary that provides guidance for airborne						
and ground maneuvering	of aircraft [Source: AIM,	AC 150/5345 Series of A	ACs]			
Feature Group	Airfield					
Feature Class Name	AirfieldLight					
Feature Type	Point					
CADD Standard Requi	rements					
Layer/Level	r/Level Description Layer/Level Description					
E-LITE-APPR-	Approach lights	pproach lights V-LITE-RUNW- Runway lights				
Distance and arresting						
E-LITE-DIST-	gear markers and lights	V-LITE-TAXI-	Taxiway lights			

	Horr	mlom o	torrilono	<u> </u>				
E-LITE-LANE-			taxilane,	VI TE THE		Throab	ald liabea	
E-LITE-LANE-	and helipad li		i fights	V-LITE-THRS- V-LITE-RUNW-		Threshold lights		
E LITE ODST	Obstruction		. 1: alaka	TDZN	V -	Runway Touchdown		
E-LITE-OBST-	Obst	ructioi	n ngnts	V-LITE-RUNV	£ 7		Zone lights Runway Centerline	
E LITE DINNI EDGE	D				V -		y Centerline	
E-LITE-RUNW-EDGE	Kunv	vay ed	lge lights	CNTL	7	lights	TD 1.1	
E LITE SIGN	T:			E-LITE-RUNV	V -		y Touchdown	
E-LITE-SIGN-			uidance signs	TDZN	7	Zone li	•	
		•	enterline	E-LITE-RUNV	V -		y Centerline	
E-LITE-TAXI-CNTL	light	S		CNTR	7	lights	D: A	
E LITE TUDO	Thus	الداداد	1: ~1~4~	E-LITE-RUNV	V -		y Distance to go	
E-LITE-THRS-		shold		DTGS1	EDGE	lights	1.1.1.1.	
V-LITE-APPR-		oach l	_	E-LITE-TAXI-		Taxiwa	y edge lights	
VIITE LANE		-	taxilane,	E-LITE-RNWY	(-	D		
V-LITE-CANE-			l lights	GARD		Kunwa	y guard lights	
V-LITE-OBST-	Obst	ructioi	n lights	T • 4	T : X	[.] .	G 1.1	
A 4 - D 1 - C4 1 1 -			Color	Linetype	Line V		Symbol	
AutoDesk Standards MicroStation Standards	_		$\frac{3}{2}$	Point	1 N		User Defined	
	<u>s</u>	Dage						
Sensitivity			ricted	1: 1:ElE			E-4	
E		AIXM		LightElementExtension			Extension	
Equivalent Standards		FGDC		J - 0		Extension		
D 4.41 1		SDS	DSFIE airfield_light_point					
Documentation and	4.~	None	e					
Submission Requirement	nts							
Related Features Data Capture Rules: (7011004	~ ~ ~ :	at in the courts	n of the object of	4la a lai ala		Other lights on	
the airfield such as apr								
captured using the featur								
Monumentation	е гуре		nonumentatior		anribute	coaeom	шутуре.	
Monumentation		1101				Von	tical	
Survey Point Location		Horizontal N/A		Vertical N/A				
	- 4		IN/P	1	Vertical			
Accuracy Requirement	s (in		Horizo	ntal	Orthor		Ellipsoidal	
feet)	1 2		1.2	+ 2.6			-	
			± 3		$\begin{array}{ c c c c c }\hline \pm 5 \text{ ft} & \text{N/A}\\\hline \textbf{Distances and Elevations}\\\hline \end{array}$			
Resolution						Nearest foot		
Feature Attributes			Hundredth of	are second		neare	St 100t	
	rmc)		1	D _a	ganintia			
Attribute (Datat	ype)		The name of	Description for the factors				
8 7			of the feature.					
description (String 255)		Description of the feature				of the feeture		
status (Enumeration: codeStatus)		A temporal description of the operational status of the feature.						
li abdin aThur a		This attribute is used to describe real-time status.						
lightingType (Enumeration: codeLightingType)		`	A description of the lighting system. Lighting system					
(Enumeration: codeLightingType)			claccitiontics	classifications are Approach; Airport; Runway; Taxiway; and				
l `	ingiy	pe)		is are Approach;	Airport; I	Xuiiway,	raxiway; and	
_	ing I y	pe)	Obstruction			Xuiiway,	Taxiway; and	
color (Enumeration: codeColor		pe)	Obstruction	the airfield light.		Xuiiway,	Taxiway; and	

luminescence (Integer)	The luminescence of the airfield light specified in candellas
	(cd).
pilotControlFrequency (Real)	The radio frequency used by pilots to control various airport
	lighting systems
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.4.5. ArrestingGear

5.4.5. ArrestingGear							
Definition: Location of the arro	esting gea	ar cable ac	cross the runway [S	Source: RTCA DC	0-272]		
Feature Group	Airfield	d					
Feature Class Name	Arrestin	ngGear		04			
Feature Type	Line			60			
CADD Standard Requiremen	ts						
Layer/Level			Descr	iption			
C-RUNW-ARST-	Runwa	v Arrestin	ng Gear Location				
		olor	Linetype	Line Weight	Symbol		
AutoDesk Standards		3		1 MM	-		
MicroStation Standards		2	Continuous	7	User Defined		
Sensitivity	Restric	ted			I.		
<u>,</u>	AIXM		ArrestingGear		Core		
Equivalent Standards	FGDC						
1		SDSFIE airfield_linear_safety_feature_line					
Documentation and			<u> </u>	<u></u>			
Submission Requirements	None						
Related Features							
Data Capture Rules: Collect	t the arre	esting ged	ar location as indi	vidual line obiect	s. connecting the		
two fixed points of the arresting					.,		
Monumentation			on required.	<u> </u>			
G DILLY GI			zontal	Ver	tical		
Survey Point Location	N/A			N/A			
			. •	Ver	tical		
Accuracy Requirements (in		Horiz	zontal	Orthometric	Ellipsoidal		
feet)		+	3 ft	± 5 ft	N/A		
	Ge		Coordinates		nd Elevations		
Resolution			of arc second		est foot		
Feature Attributes			,	1,002	501000		
Attribute (Datatype)			De	escription			
name (String 50)		The name	of the airfield.				
description (String 255)			on of the feature				
status (Enumeration: codeStatu				is of the feature.			
Zamaranon. Codobiata	This attribute is used to desc			•			
airportFacilityType		Type of a					
(Enumeration: codeOperations') F 3 3 T W					

userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
owner (Enumeration: codeOwner)	Owner of the facility.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

Frequency Area Frequency Area Frequency Area Frequency Area	5.4.6. Frequency Area					
Polygon must cover the total air operations area. [Source: RTCA DO-272]	• •	designated par	rt of the surface move	ement area where a	specific	
Feature Group FrequencyArea FrequencyArea FrequencyArea FrequencyArea FrequencyArea Frequency Area	frequency is required by ATC of	or ground contr	ol. If there is only on	e frequency area fo	or the airport, the	
Frequency Area Frequency Area Frequency Area Frequency Area	polygon must cover the total air	operations are	ea. [Source: RTCA Do	O-272]		
Polygon CADD Standard Requirements Layer/Level Description	Feature Group	Airfield				
Polygon CADD Standard Requirements Layer/Level Primary Key. A globally unique identifier assigned to the instance of a feature type. Attribute (Datatype) Description	Feature Class Name	FrequencyAr	rea			
CADD Standard Requirements Layer/Level Frequency Area	Feature Type				7	
C-AIRF-FREQ- Frequency Area Color Linetype Line Weight Symbol	CADD Standard Requiremen	ts				
C-AIRF-FREQ- Frequency Area Color Linetype Line Weight Symbol			Desc	ription		
Color Linetype Line Weight Symbol	C-AIRF-FREQ-	Frequency A				
AutoDesk Standards 3				Line Weight	Symbol	
Sensitivity Unclassified AIXM Frequency Core	AutoDesk Standards	3		1 MM	HD-C1	
AIXM Frequency Core	MicroStation Standards	2	Continuous	7	User Defined	
FGDC FrequencyArea SDSFIE communications_groundwave_polygon_area	Sensitivity	Unclassified				
FGDC FrequencyArea SDSFIE communications_groundwave_polygon_area			Frequency		Core	
SDSFIE communications_groundwave_polygon_area	Equivalent Standards	FGDC			I.	
No documentation and Submission Requirements	•		Total Contraction of the Contrac	groundwave poly	gon area	
No documentation is required for this feature.	Documentation and				8***=****	
Related Features Data Capture Rules: Collect a closed polygon to its greatest extents.		No document	tation is required for t	this feature.		
No monumentation No monumentation required.						
No monumentation required. Horizontal New Mertical Orthometric Ellipsoidal ± 3 ft ± 5 ft New Mertical New Mertical New Mertical Orthometric Ellipsoidal ± 3 ft ± 5 ft New Mertical New M		a closed polygo	on to its greatest exter	nts		
Accuracy Requirements (in feet) Resolution Accuracy Requirements (in feet) Horizontal Uertical			<u> </u>	Ver	 tical	
Horizontal Horizontal Corthometric Ellipsoidal ± 3 ft ± 5 ft N/A	Survey Point Location	() "				
Accuracy Requirements (in feet) ### Horizontal ### Uses of the status (Enumeration: codeStatus) ### Recolution ### Horizontal ### Brit						
± 3 ft		H	Horizontal		1	
Resolution Geographic Coordinates Hundredth of arc second Nearest foot Feature Attributes Attribute (Datatype) name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatus) Status (String 30) Geographic Coordinates Hundredth of arc second Nearest foot Description The name of the airfield. Primary Key. A globally unique identifier assigned to the instance of a feature type. Description of the feature A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]	feet)	+ 2 ft			•	
Hundredth of arc second Nearest foot Feature Attributes Attribute (Datatype) name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatus) station (String 30) Hundredth of arc second Nearest foot Description The name of the airfield. Primary Key. A globally unique identifier assigned to the instance of a feature type. Description of the feature A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]		Geograp				
Feature AttributesDescriptionname (String 50)The name of the airfield.identifierPrimary Key. A globally unique identifier assigned to the instance of a feature type.description (String 255)Description of the featurestatus (Enumeration: codeStatus)A temporal description of the operational status of the feature. This attribute is used to describe real-time status.station (String 30)Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]	Resolution					
Attribute (Datatype) name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatus) status (String 30) Attribute (Datatype) Description The name of the airfield. Primary Key. A globally unique identifier assigned to the instance of a feature type. Description of the feature A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]	Footure Attributes	Trundred	illi of are second	TVCarc	st 100t	
name (String 50) The name of the airfield. Primary Key. A globally unique identifier assigned to the instance of a feature type. description (String 255) Description of the feature status (Enumeration: codeStatus) A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]			D.	occrintion		
identifier (Number 38) description (String 255) status (Enumeration: codeStatus) status (String 30) Primary Key. A globally unique identifier assigned to the instance of a feature type. Description of the feature A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]		The ne		escription		
(Number 38) instance of a feature type. description (String 255) Description of the feature status (Enumeration: codeStatus) A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]				iano identifiar essi	and to the	
description (String 255) Status (Enumeration: codeStatus) A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]						
Status (Enumeration: codeStatus) A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]						
This attribute is used to describe real-time status. Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]				a operational status	of the feature	
station (String 30) Service or Station assigned to primary frequency (e.g., ATC Tower, Ground Control) [Source: RTCA DO-272]	status (Enumeration, codeStatu					
Tower, Ground Control) [Source: RTCA DO-272]	station (String 20)					
	station (Suring 50)					
Traditanasi i Panti	frequency (Real)		Primary frequency used on frequency area (in MHZ). [Source:			
RTCA DO-272]	requericy (Real)		• •	requeitey area (III N	1112). [Source.	

userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.4.7. Passenger Loading Bridge

2.117. Tubbenger Douang Briage						
Definition: A bridge for loading/unloading access to airplanes for passengers and crew.						
Airfield						
PassengerLoadin	gBridge					
Polygon						
ts						
	Descr	iption				
Airport Jetbridge						
Color	Linetype	Line Weight	Symbol			
3	Continuous	1 MM	Haan Dafinad			
2	Continuous	7	User Defined			
Restricted						
AIXM	PassengerLoadir	ngBridge	Core			
FGDC	PassengerLoadir	ngBridge				
SDSFIE None						
No do amountation is as arised for this footune						
No documentation is required for this feature.						
	g/unloading access Airfield PassengerLoadin Polygon ts Airport Jetbridge Color 3 2 Restricted AIXM FGDC SDSFIE	g/unloading access to airplanes for partial Airfield PassengerLoadingBridge Polygon ts Descr Airport Jetbridge Color Linetype 3 Continuous Restricted AIXM PassengerLoadin FGDC PassengerLoadin SDSFIE None	g/unloading access to airplanes for passengers and crew Airfield PassengerLoadingBridge Polygon ts Description Airport Jetbridge Color Linetype Line Weight 3 Continuous 7 Restricted AIXM PassengerLoadingBridge FGDC PassengerLoadingBridge			

Data Capture Rules: Outline of the boarding Bridge with the vertical on the top of the bridge.



Monumentation	No monumentation required.					
Survey Doint Leastion	Horizontal Vertical					
Survey Point Location	N/A	N/A				

A course ou De quinemente (in	Horizontal	Vertical				
Accuracy Requirements (in	Horizontai	Orthometric	Ellipsoidal			
feet)	± 3 ft	± 5 ft	N/A			
Resolution	Geographic Coordinates	Distances an	d Elevations			
Resolution	Hundredth of arc second	Neare	st foot			
Feature Attributes						
Attribute (Datatype)	De	escription				
name (String 50)	Name, code or identifier use	ed to identify the lo	oading bridge.			
identifier	Primary Key. A globally un	ique identifier assigned to the				
(Number 38)	instance of a feature type.	instance of a feature type.				
description (String 255)	Description of the feature	Description of the feature				
status (Enumeration: codeStatus	A temporal description of th	e operational statu	s of the feature.			
	This attribute is used to desc	us.				
userFlag (String 254)	An operator-defined work as					
	•	the operator for user-defined system processes. It does not				
	affect the subject item's data	affect the subject item's data integrity and should not be used to				
	store the subject item's data.	store the subject item's data.				
loadingBridgeType (Enumeration	on: Code indicating the type of	Code indicating the type of loading bridge.				
CodeLoadingBridgeType)						
Alternative (Integer2)	Discriminator used to tie fea	Discriminator used to tie features of a plan or poroposal				
	together into a version.	_				

5.4.8. Runway Centerline

5.4.8. Runway Centerline								
Definition: Continuous line along the painted centerline of a runway connecting the middle-points of								
	the two outermost thresholds. Centerline is composed of many centerline points (see							
RunwayControlPoint). It is use	ed to calculate grad	le and line-of-sight	criteria. [Source:	AC 150/5300-				
13]								
Feature Group	Airfield							
Feature Class Name	RunwayCenterli	ne						
Feature Type	Line							
CADD Standard Requiremen	nts							
Layer/Level	Layer/Level Description							
C-RUNW-CNTR-	Runway Centerl	ine						
	Color Linetype Line Weight Symbol							
AutoDesk Standards	7	Continuous	1 MM	User Defined				
MicroStation Standards	2	Continuous	7	Oser Defined				
Sensitivity	Restricted							
	AIXM RunwayMarking		Core					
Equivalent Standards	FGDC	FGDC RunwayCenterline						
	SDSFIE	airfield_surface_	centerline					
Documentation and	No documentation	on is required for th	nic fastura					
Submission Requirements	140 documentation	on is required for the	ns reature.					
Related Features								
Data Capture Rules: Determ	iine the runway ce	enterline as a cont	inuous line along	the centerline of				
the runway connecting the two	<u>runway end</u> points							
Monumentation	No monumentati	on required.						
Survey Paint Lagation	Hori	zontal	Vertical					
Survey Point Location	N	/A	N/A					

A coursey Dequinements (in		Horizontal	Vertical			
Accuracy Requirements (in feet)		Horizontai	Orthometric	Ellipsoidal		
leet)		± 1 ft	± 0.25 ft	N/A		
Resolution		Geographic Coordinates	Distances an	d Elevations		
Resolution		Thousandth of arc second	Nearest ten	th of a foot		
Feature Attributes						
Attribute (Datatype)		De	scription			
name (String 50)		The name of the airfield.				
runwayDesignator (String 7)		Designator of the runway bas	ed on the magnetic	c bearing and		
		position in relation to parallel runways (e.g. 33R/15L) [Source:				
		AC 150/5340-1]				
identifier	Primary Key. A globally unique identifier assigned to the					
(Number 38)	instance of a feature type.					
description (String 255)		Description of the feature				
status (Enumeration: codeStatus	s)	A temporal description of the operational status of the feature.				
		This attribute is used to descr	ibe real-time statu	S.		
isDerived (Boolean)		Indicates whether the centerli	ne is derived or pl	noto determined.		
userFlag (String 254)		An operator-defined work area. This attribute can be used by				
		the operator for user-defined system processes. It does not				
		affect the subject item's data integrity and should not be used to				
	store the subject item's data.					
Alternative (Integer2)		Discriminator used to tie features of a plan or poroposal				
		together into a version.				

5.4.9. Runway Helipad Design Surface

Definition: A three-dimensional surface used in runway or heliport/helipad design [Source: AC							
150/5300-13]							
Feature Group	Feature Group Airfield						
Feature Class Name	RunwayHelipad	DesignSurface					
Feature Type	Polygon						
CADD Standard Requirement	S						
Layer/Level		Descr	ription				
C-AIRF-DSRF-BLDR-	Building Restric	ction Line					
C-AIRF-DSRF-RSA-	Runway Safety	Area					
C-AIRF-DSRF-RPZ-	Runway Protect	ion Zone					
C-AIRF-DSRF-OFA-	Object Free Area						
C-AIRF-DSRF-OFZ-	Object Free Zone						
C-AIRF-DSRF-POFA-	Precision Object Free Area						
C-AIRF-DSRF-KEYH-	Key holes						
C-RUNW-CLRW-	Runway clearwa	ay					
C-HELI-DSRF-	Helipad design	surface					
	Color	Linetype	Line Weight	Symbol			
AutoDesk Standards	3	Continuous	1 MM	Hear Defined			
MicroStation Standards	2 Continuous 7 User Defined						
Sensitivity	Restricted						
	AIXM	RunwayFATODe	signSurface	Extension			
Equivalent Standards	FGDC	RunwayHelipadDesignSurface		Extension			
	SDSFIE airfield_imaginary_surface_area						

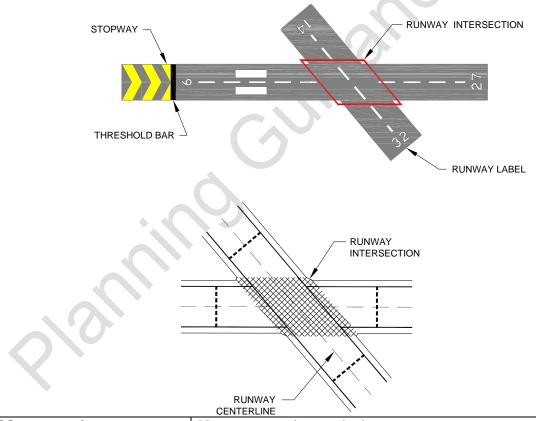
Documentation and	N		l		
Submission Requirements	No d	ocumentation is required for t	nis feature.		
Related Features					
Data Capture Rules: N/A					
Monumentation	No n	nonumentation required.			
Courses Daint I agation		Horizontal	Ver	tical	
Survey Point Location		N/A	N	/A	
A		Harimantal	Ver	tical	
Accuracy Requirements (in		Horizontal	Orthometric	Ellipsoidal	
feet)		N/A	N/A	N/A	
Resolution	(Geographic Coordinates	Distances ar	nd Elevations	
Resolution		Hundredth of arc second	Tenth of	of a foot	
Feature Attributes					
Attribute (Datatype)		De	scription		
name (String 50)		The name of the feature. [So	ource: SDSFIE Fea	ature Table]	
identifier		Primary Key. A globally un	ique identifier assi	igned to the	
(Number 38)		instance of a feature type.			
description (String 255)		Description of the feature			
status (Enumeration: codeStatus))	A temporal description of the operational status of the feature.			
		This attribute is used to describe real-time status.			
designSurfaceType		A description of the design surface			
(Enumeration:					
codeDesignSurfaceType)					
zoneUse (String 50)		A description of the use of the			
determination (String 255)		A formal declaration of the			
		area condition with respect to standards and any requirement			
		improvements [Source: FAA Order 5200.8 and AC 150/5390-			
		2]			
determinationDate (Date)		The date the safety area deter		proved [Source:	
		FAA Order 5200.8 and AC 1			
zoneInnerWidth (Real)		The width of the narrow end of a trapezoidal shaped DesignSurface feature. This is normally the end that is closest			
* •	1		•		
		to the landing surface [Source 150/5200 2P]	ce: AC 150/5300-	13 and	
- an a Out on Wildth (Doct)		150/5390-2B]	C . 4mamama: dal alca	d	
zoneOuterWidth (Real)		The width of the wide end of DesignSurface feature. This		-	
		from the landing surface.	is normany me er	ia mat is furmest	
zoneLength (Real)		The length of a trapezoidal si	haned Decign Surf	ace feature	
slope (Real)		The length of a trapezoidar s. The low to high gradient with		ace reature.	
userFlag (String 254)		An operator-defined work ar		can be used by	
user lag (sumg 234)		*		•	
		the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to			
		store the subject item's data.	integrity and snot	ina not be used to	
Alternative (Integer2)		Discriminator used to tie fear	tures of a plan or r	poroposal	
		together into a version.		sp ssa.	

5.4.10. Runway Intersection

Definition: The area of intersection between two or more runways [Source: RTCA DO-272]			
Feature Group Airfield			
Feature Class Name	RunwayIntersection		

Feature Type	Polygon						
CADD Standard Requiremen	CADD Standard Requirements						
Layer/Level	Description						
C-RUNW-INTS	Runway interse	ection					
	Color	Linetype	Line Weight	Symbol			
AutoDesk Standards	3	Continuous 1 MM		User Defined			
MicroStation Standards	2	Continuous	7	User Defined			
Sensitivity	Restricted						
	AIXM	RunwayElement		Core			
Equivalent Standards	FGDC	RunwayElement					
	SDSFIE	None					
Documentation and	No. 1						
Submission Requirements	No documentation is required for this feature.						
Related Features							

Data Capture Rules: When two or more runways intersect, collect the area of overlap as an individual runway intersection polygon attached to the corresponding runway polygon(s) by way of shared lines. Define the polygon by the outer edge of the white runway edge marking or surface edge if no marking is present.



Monumentation	No monumentation required.		
Survey Doint Leastion	Horizontal Vertical		tical
Survey Point Location	N/A	N/A	
Accuracy Requirements (in feet)	Horizontal	Vertical	
	Horizontai	Orthometric	Ellipsoidal
	± 3 ft	± 5 ft	N/A

Resolution	Geographic Coordinates	Distances and Elevations			
Resolution	Hundredth of arc second	Tenth of a foot			
Feature Attributes					
Attribute (Datatype)	De	Description			
name (String 50)	The name of the airfield.				
identifier (Number 38)	Primary Key. A globally uninstance of a feature type.	ique identifier assigned to the			
description (String 255)	Description of the feature				
status (Enumeration: codeStatus)	A temporal description of the This attribute is used to description	e operational status of the feature. ribe real-time status.			
runwayDesignator1 (String 7)	Designator of the 1st intersed bearing and position in relati 33R/15L).	cting runway based on the magnetic on to parallel runways (e.g.			
runwayDesignator2 (String 7)	Designator of the 2nd interse magnetic bearing and positio (e.g. 33R/15L).	ecting runway based on the on in relation to parallel runways			
runwayDesignator3 (String 7)	Designator of the 3rd interse magnetic bearing and positio (e.g. 33R/15L).	cting runway based on the on in relation to parallel runways			
pavementClassificationNumber	A number which expresses the relative load carrying capacity of a pavement in terms of a standard single wheel load. [Source: AC 150/5335-5]				
userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used t store the subject item's data.				
Alternative (Integer2)	Discriminator used to tie feat together into a version.	tures of a plan or poroposal			

5.4.11. Runway LAHSO

Definition: Markings installed on a runway where an aircraft is to stop when the runway is normally used as a taxiway or used for Land and Hold Short Operations (LAHSO) as identified in a letter of agreement with the Air Traffic Control Tower (ATCT). A runway should be considered as normally used for taxiing if there is no parallel taxiway and no ATCT. Otherwise, seek input from ATCT. [Source: Order 7110.118]

Feature Group	Airfield					
Feature Class Name	RunwayLAHSO					
Feature Type	Line					
CADD Standard Requirement	S					
Layer/Level		Descr	ription			
C-RUNW-LAHS-	Runway land ar	d hold short area				
	Color	Linetype	Line Weight	Symbol		
AutoDesk Standards	3	Continuous 1 MM		User Defined		
MicroStation Standards	2	Continuous	7	User Defined		
Sensitivity	Restricted					
	AIXM	RunwayMarking		Core		
Equivalent Standards	FGDC	RunwayLAHSO				
	SDSFIE None					
Documentation and	ocumentation and					
Submission Requirements	No documentation is required for this feature.					

Related Features Data Capture Rules: Collect the LAHSO line as individual line objects delineated by the outer edge of the second painted line farthest from the intersecting runway. Monumentation No monumentation required. Horizontal Vertical **Survey Point Location** N/A N/A Vertical Horizontal **Accuracy Requirements (in Orthometric Ellipsoidal** feet) $\pm 3 \text{ ft}$ $\pm 5 \text{ ft}$ N/A **Geographic Coordinates Distances and Elevations** Resolution Hundredth of arc second Tenth of a foot **Feature Attributes** Attribute (Datatype) **Description** name (String 50) The name of the airfield. identifier (Number 38) Primary Key. A globally unique identifier assigned to the instance of a feature type. Description of the feature description (String 255) status (Enumeration: codeStatus) A temporal description of the operational status of the feature. This attribute is used to describe real-time status. Unique runway identifier for the airport of the runway, if any, protectedRunwayDesignator (String being protected by the LAHSO (when the LAHSO precedes a runway intersection). Example 17L/35R. The type of the marking markingFeatureType (Enumeration: codeMarkingFeatureType) The color of the marking (Enumeration: codeColor) userFlag (String 254) An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data. Discriminator used to tie features of a plan or poroposal Alternative (Integer2) together into a version.

5.4.12. Runway Element

Definition: A section of the runway surface. The runway surface can be defined by a set of non-overlapping RunwaySegment polygons for pavement management purposes. RunwayElements may overlap Runway and RunwayIntersection features. Use RunwayElement to model the physical runway pavement in terms of surface, material, strength and condition in greater detail than just as a

single piece of pavement. [Sou	rce: AC	150/5335-	-5, AC 150/5320-1	2, AC 150/5320-1	7, AC 150/5320-	
6]	1 4 : 6: 1	•				
Feature Group	Airfiel					
Feature Class Name		ayElement				
Feature Type	Polygo	on				
CADD Standard Requiremen	its					
Layer/Level			Descri	iption		
C-RUNW-SEGM-		ay Element			1	
	C	olor	Linetype	Line Weight	Symbol	
AutoDesk Standards		3	Continuous	1 MM	User Defined	
MicroStation Standards		2	Continuous	7	Oser Bernied	
Sensitivity	None					
	AIXM	[RunwayElementE	Extension	Extension	
Equivalent Standards	FGDC	7	RunwayElement		Extension	
	SDSFI	Œ	None			
Documentation and Submission Requirements Related Features	No doo	cumentatio	on is required for th	is feature.		
Data Capture Rules: Collec	4		a a individual mal	lugan objects W/le		
runways intersect, identify, class						
Monumentation		•	on required.	ie intersecting are	a only once.	
Monumentation	NO IIIO			V /0	4: a a 1	
Survey Point Location		Horiz			tical	
		N/A		N/A		
Accuracy Requirements (in	Horizontal		Vertical			
feet)			Orthometric	Ellipsoidal		
,	± 3 ft		± 5 ft	N/A		
Resolution			Coordinates		d Elevations	
	H	Hundredth of arc second		Tenth of	of a foot	
		Feature Attributes				
Attuibuta (Datataura)						
Attribute (Datatype)				escription		
name (String 50)	0	100	of the airfield.			
name (String 50) identifier	6	Primary K	of the airfield. Key. A globally un		igned to the	
name (String 50) identifier (Number 38)	6	Primary K instance of	of the airfield. Key. A globally un of a feature type.		igned to the	
name (String 50) identifier	6	Primary K instance of	of the airfield. Key. A globally un		igned to the	
name (String 50) identifier (Number 38)	s)	Primary k instance of Description	of the airfield. Key. A globally un of a feature type.	ique identifier ass		
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu	s)	Primary k instance of Description A tempor This attrib	of the airfield. Key. A globally un of a feature type. on of the feature ral description of the bute is used to description	ique identifier ass ne operational statu cribe real-time stat	us of the feature.	
name (String 50) identifier (Number 38) description (String 255)	s)	Primary k instance of Description A tempor This attrib	of the airfield. Key. A globally un of a feature type. on of the feature al description of the	ique identifier ass ne operational statu cribe real-time stat	us of the feature.	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu	s)	Primary K instance of Description A tempor This attrib An operate the operate	of the airfield. Key. A globally unof a feature type. on of the feature al description of the bute is used to description for user-defined	ique identifier ass le operational staturibe real-time staturea. This attribute	us of the feature. us can be used by . It does not	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu	s)	Primary K instance of Description A tempor This attrib An operat the operat	c of the airfield. Key. A globally un of a feature type. on of the feature al description of the bute is used to descror-defined work ar	ique identifier ass le operational staturibe real-time staturea. This attribute	us of the feature. us can be used by . It does not	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu	s)	Primary K instance of Description A temporal This attributed An operate the operate affect the store the store the store of the store th	of the airfield. Key. A globally un of a feature type. on of the feature al description of the bute is used to description description of the cor-defined work ar or for user-defined subject item's data subject item's data.	ique identifier ass le operational statu cribe real-time stat rea. This attribute l system processes integrity and shou	can be used by It does not It does not It does not	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254)		Primary K instance of Description A tempore This attributed An operate the operate affect the store the stance of	cof the airfield. Key. A globally un of a feature type. on of the feature al description of the bute is used to descror-defined work ar or for user-defined subject item's data. cation of airfield p	ique identifier ass le operational statueribe real-time stat rea. This attribute l system processes integrity and shou	can be used by It does not It does not It does not	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254) surfaceType (Enumeration: codeSurfaceType		Primary K instance of Description A tempore This attributed An operate the operate affect the store the stance of	cof the airfield. Key. A globally un of a feature type. on of the feature al description of the bute is used to description defined work ar or for user-defined subject item's data. cation of airfield p on Charts [Source	ique identifier ass le operational statueribe real-time state. This attribute a system processes integrity and should avement surfaces: NGS]	us of the feature. us can be used by . It does not ald not be used to for Airport	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254) surfaceType (Enumeration: codeSurfaceTyp) surfaceMaterial	pe)	Primary K instance of Description A temporal This attributed An operate affect the store the sto	of the airfield. Key. A globally un of a feature type. on of the feature ral description of the bute is used to description of the cor-defined work ar or for user-defined subject item's data cation of airfield p on Charts [Source dicating the compo-	ique identifier ass le operational statueribe real-time state. This attribute a system processes integrity and should avement surfaces: NGS]	us of the feature. us can be used by . It does not ald not be used to for Airport	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254) surfaceType (Enumeration: codeSurfaceType	pe)	Primary K instance of Description A tempore This attributed An operate the operate affect the store the stance of	of the airfield. Key. A globally un of a feature type. on of the feature ral description of the bute is used to description of the cor-defined work ar or for user-defined subject item's data cation of airfield p on Charts [Source dicating the compo-	ique identifier ass le operational statueribe real-time state. This attribute a system processes integrity and should avement surfaces: NGS]	us of the feature. us can be used by . It does not ald not be used to for Airport	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254) surfaceType (Enumeration: codeSurfaceTyp surfaceMaterial	pe)	Primary K instance of Description A tempore This attril An operate the operate affect the store the store	of the airfield. Key. A globally un of a feature type. on of the feature ral description of the bute is used to description of the cor-defined work ar or for user-defined subject item's data cation of airfield p on Charts [Source dicating the compo-	ique identifier ass le operational statu cribe real-time stat rea. This attribute l system processes integrity and shou avement surfaces : NGS] osition of the relati	as of the feature. us can be used by . It does not ald not be used to for Airport ed surface	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254) surfaceType (Enumeration: codeSurfaceTyp surfaceMaterial (Enumeration: CodeSurfaceMa	pe)	Primary K instance of Description A tempor This attribute operate affect the store the	of the airfield. Key. A globally un of a feature type. on of the feature al description of the bute is used to descror-defined work an or for user-defined subject item's data subject item's data. cation of airfield p on Charts [Source adicating the compo	ique identifier ass le operational statueribe real-time stat rea. This attribute l system processes integrity and shou avement surfaces : NGS] osition of the relate	as of the feature. us can be used by . It does not ald not be used to graph for Airport and surface arrying capacity	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254) surfaceType (Enumeration: codeSurfaceTyp surfaceMaterial (Enumeration: CodeSurfaceMa	pe)	Primary K instance of Description A tempor This attribute An operate affect the store	cof the airfield. Key. A globally un of a feature type. on of the feature al description of the bute is used to descror-defined work ar or for user-defined subject item's data. cation of airfield p on Charts [Source dicating the components.] The which expresses to	ique identifier ass le operational statueribe real-time stat rea. This attribute l system processes integrity and shou avement surfaces : NGS] osition of the relate	as of the feature. us can be used by . It does not ald not be used to graph for Airport and surface arrying capacity	
name (String 50) identifier (Number 38) description (String 255) status (Enumeration: codeStatu userFlag (String 254) surfaceType (Enumeration: codeSurfaceTyp surfaceMaterial (Enumeration: CodeSurfaceMa	pe)	Primary K instance of Description A tempor This attril An operate affect the store the	cof the airfield. Key. A globally un of a feature type. on of the feature al description of the bute is used to description or for user-defined subject item's data. cation of airfield p on Charts [Source adicating the components.] r which expresses tement in terms of a	ique identifier ass le operational statu cribe real-time stat rea. This attribute l system processes integrity and shou avement surfaces : NGS] osition of the relate the relative load ca standard single wh	as of the feature. us can be used by . It does not ild not be used to for Airport ed surface arrying capacity neel load.	

codeSurfaceCondition)	
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

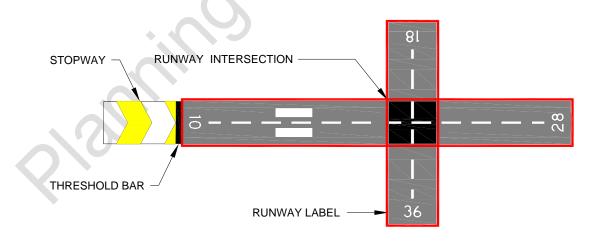
5.4.13. Stopway

Definition: An area beyond the takeoff runway, no less wide than the runway and centered upon the extended centerline of the runway, able to support the airplane during an aborted takeoff without causing structural damage to the airplane. It is designated by the airport authorities for use in decelerating the airplane during an aborted takeoff.

Feature Group	Airfield	
Feature Class Name	Stopway	
Feature Type	Polygon	
CADD Standard Requirements		

Layer/Level	Description				
C-RUNW-STWY-	Runway stopway markings				
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	3	Continuous	1 MM	User Defined	
MicroStation Standards	2		7		
Sensitivity	Restricted				
	AIXM	Stopway		Extension	
Equivalent Standards	FGDC	<i>Stopway</i> Exten		Extension	
	SDSFIE	None			
Documentation and	No documentation is required for this feature.				
Submission Requirements	No documentation is required for this readure.				
Related Features	4				

Data Capture Rules: Collect a closed polygon encompassing the entire area designated as stopway and connect it to associated runway by means of a shared line. Stopways do not have shoulders and can be wider than the associated runway. Pay special attention to the guidance on Runway end, Stopway end, and Displaced Threshold Identification for proper location of the Stopway.



Monumentation	No monumentation required.				
Survey Point Legation	Horizontal	Vertical			
Survey Point Location	N/A	N/A			
Accuracy Requirements (in	Horizontal	Vertical			

feet)			Orthometric	Ellipsoidal
	± 3 ft		± 5 ft	N/A
Resolution		Geographic Coordinates		d Elevations
	Hundredth of are	c second	Tenth o	f a foot
Feature Attributes				
Attribute (Datatype)			scription	
name (String 50)	The name of th			
identifier			que identifier assig	gned to the
(Number 38)	instance of a fe	ature type.		
description (String 255)	Description of			
status (Enumeration: codeStatus			operational status	
			ibe real-time status	100
length (Real)	The length of the	he designated	stopway from the	end of the
	runway			
width (Real)	The overall wid			
userFlag (String 254)	-		ea. This attribute c	•
	-		system processes.	
	_		integrity and shoul	d not be used to
	store the subject			
surfaceType			vement surfaces for	or Airport
(Enumeration: codeSurfaceTyp				
surfaceMaterial		~ M / / /	sition of the related	l surface
(Enumeration:	[Source: NFDC	2]		
codeSurfaceMaterial)				
surfaceCondition	A description of the serviceability of the pavement [Sour			ent [Source:
(Enumeration:	NFDC]			
codeSurfaceCondition)				
Alternative (Integer2)			ures of a plan or po	oroposal
	together into a version.			

5.4.14. Taxiway Holding Position

Still it Turivuy Holulig 1 051								
Definition: A designated position at which taxiing aircraft and vehicles will stop and hold position,								
unless otherwise authorized by	unless otherwise authorized by the airport control tower [Source: RTCA DO-272]							
Feature Group	Airfield							
Feature Class Name	TaxiwayHolding	Position						
Feature Type	line							
CADD Standard Requiremen	ts							
Layer/Level	Layer/Level Description							
C-TAXI-HOLD	Holding Lines							
	Color	Color Linetype Line Weight Symbol						
AutoDesk Standards	3	Continuous	1 MM	User Defined				
MicroStation Standards	2	Continuous 7 User Defined						
Sensitivity	Restricted							
	AIXM	TaxiHoldingPosi	ition	Core				
Equivalent Standards	FGDC	TaxiwayHolding.	Position					
	SDSFIE None							
Documentation and None								
Submission Requirements None								

Related Features

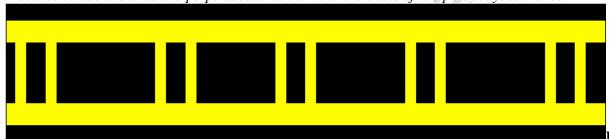
Data Capture Rules: The painted markings extend across the taxiway and may consist of one of the following:

- Runway holding position markings are a set of four yellow lines and three spaces.
- The side with the two solid lines is the holding side.



Runway Holding Position Marking.

ILS/MLS holding positions are marked using a set of two parallel yellow lines spaced four feet apart, in between these two lines and perpendicular to them there are sets of two parallel yellow lines.



ILS/MLS Holding Position Marking.

Collect taxiway holding position line as a line at the outer edge of the painted marking (stop bar) farthest away from the corresponding runway.

Monumentation	No monum	No monumentation required.					
Survey Point Location		Horizontal	Vertical				
Survey Foint Location	N/A		N/A				
A course on Descriptor onto Ga		Horizontal	Vertic	al			
Accuracy Requirements (in		Horizontai	Orthometric	Ellipsoidal			
feet)		± 3 ft	± 5 ft	N/A			
Resolution	Geog	raphic Coordinates	Distances and	Elevations			
Resolution	Hune	dredth of arc second	Tenth of	foot			
Feature Attributes							
Attribute (Datatype)		Description					
name (VARCHAR2(50))	The	name of the feature.					
description (VARCHAR2(255)) A de	scription of the feature.					
status (Enumeration: codeStatus	A ter	mporal description of the op	perational status of	the feature.			
	This	attribute is used to describe	real-time status.				
runwayDesignator (String 7)	The	designator for the approach	ing runway.				
taxiwayDesignator (String 4)	The	designator for the taxiway.					
lowVisibilityCategroy	Code	Code describing the Low visibility operation category of the					
(Enumeration:	numeration: TaxiwayHoldingPosition.						
codeLowVisibilityCategory)							
status (Enumeration: codeStatus	A ter	mporal description of the op	perational status of	the feature.			
	This	attribute is used to describe	real-time status				

userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.4.15. Airport Sign

5.4.15. Airport Sign								
Definition: Signs at an airport other than surface painted signs. [Source: AC 150/5340-18]								
Feature Group	Airfield							
Feature Class Name	AirportSign							
Feature Type	Point							
CADD Standard Requireme	nts							
Layer/ Level		Description						
A-ELEV-SIGN-	Signage	Signage						
A-FLOR-SIGN-	Signage							
C-PVMT-SIGN-	Other signs							
	Color	Linetype	Line Weight	Symbol				
AutoDesk Standards	1	Continuous		User Defined				
MicroStation Standards	3			User Defined				
Layer/ Level		Descrip	otion					
C-NGAS-SIGN-	Surface markers/s							
V-LITE-DIST-	Distance and arres	sting gear markers						
V-STRM-SIGN-	Surface markers/s	igns						
	Color	Linetype	Line Weight	Symbol				
AutoDesk Standards	3							
MicroStation Standards	2 Continuous User Defined							
Layer/ Level	Description							
C-SSWR-SIGN-	Surface markers/signs							
C-APRN-SIGN-	Airfield signs on t	the apron						
	Color	Linetype	Line Weight	Symbol				
AutoDesk Standards	7	. 7						
MicroStation Standards	0	Continuous User Defined						
Layer/ Level)	Descrij	otion					
C-STRM-SIGN-	Surface markers/s	igns						
	Color	Linetype	Line Weight	Symbol				
AutoDesk Standards	4	Continuous		User Defined				
MicroStation Standards	7	Continuous		User Defined				
Layer/ Level		Descrij	otion					
V-LITE-SIGN-	Taxiway guidance	e signs						
C-TAXI-SIGN-	Airfield signs on	the taxiway such	as taxiway design	ator, hold short				
C-TAXI-SIGN-	and directional sig	gns						
	Color	Linetype	Line Weight	Symbol				
AutoDesk Standards	5	Continuous		User Defined				
MicroStation Standards	1	Continuous		User Defined				
Layer/ Level		Descri	otion					
E-SPCL-TRAF-	Traffic signal syst	em						
V-NGAS-SIGN-	Surface markers/signs							
V 110715 51011	Traffic signal system							
V-SPCL-TRAF-		C						

V-SSWR-SIGN-	Surface markers/signs					
	Color	Linetype Line Weigl		Symbol		
AutoDesk Standards	2	Continuous	1	User Defined		
MicroStation Standards	4	Continuous	3	User Derined		
Layer/ Level		Descrip	otion			
C-RUNW-SIGN-	Airfield signs on t	the runway such as	distance remaining	g signs		
	Color	Linetype	Line Weight	Symbol		
AutoDesk Standards	8	Continuous		Haan Dafinad		
MicroStation Standards	9	Continuous		User Defined		
Sensitivity	Restricted					
	AIXM	AirportSign Extension				
Equivalent Standards	FGDC	AirportSign	AirportSign			
	SDSFIE general_improvement_feature_point					
Documentation and Submission Requirements	No documentation is required for this feature.					
Related Features						

Data Capture Rules: Collect point at the highest point on the center of the sign structure. When completing the feature attribution or signs containing both location and direction information. Provide the data for the sign with the location information. If necessary or desired to provide the directional information also, provide as a separate feature.

No monumentation required.

Survey Doint Leastion	Horizontal	Vertical				
Survey Point Location	Center of sign structure	Center of sign structure Top of sign structure at cer				
A course ou De cuivements (in	Horizontal	Vert	ical			
Accuracy Requirements (in feet)	Horizontai	Orthometric	Ellipsoidal			
leet)	± 3 ft	± 5 ft	N/A			
Resolution	Geographic Coordinates	Distances an	d Elevations			
Resolution	Hundredth of arc second	Tenth of	of foot			
Feature Attributes						
Attribute (Datatype)	De	escription				
name (String 50)	The name of the feature.					
description (VARCHAR2(255)) A description of the improve	ement feature.				
status (Enumeration: codeStatu	¥ 1					
	This attribute is used to desc	ribe real-time status				
signType (Enumeration:	The type of sign.	The type of sign.				
codeSignTypeCode)						
height (Real)	The overall height of the fea	ture.				
message (String 254)	The text message that appear	rs on the sign.				
userFlag (String 254)	An operator-defined work a	An operator-defined work area. This attribute can be used by				
	*	the operator for user-defined system processes. It does not				
	· ·	affect the subject item's data integrity and should not be used to				
	store the subject item's data.					
Alternative (Integer2)		Discriminator used to tie features of a plan or poroposal				
	together into a version.					

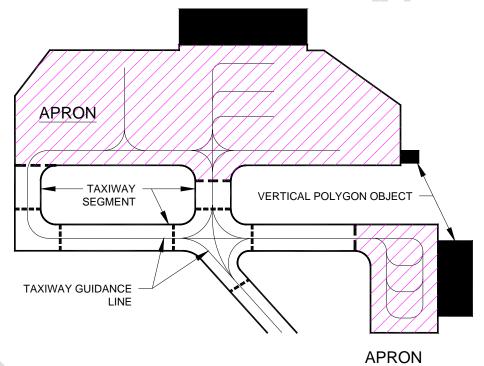
5.4.16. Apron

Monumentation

Definition: A defined area on an airport or heliport, paved or unpaved, intended to accommodate aircraft for purposes of loading or unloading passengers or cargo, refueling, parking, or maintenance. **Feature Group** Airfield

Feature Class Name	Apron					
Feature Type	Polygon					
CADD Standard Requireme	ents					
Layer/Level		Desc	ription			
C-APRN-OTLN	Apron outline					
	Color Linetype Line Weight Symbol					
AutoDesk Standards	4	Continuous	1	User Defined		
MicroStation Standards	7 Continuous 3			User Dernieu		
Sensitivity	Restricted					
	AIXM	ApronElementl	Extension	Extension		
Equivalent Standards	FGDC	Apron		Extension		
	SDSFIE airfield_surface_type					
Documentation and	No do suproportion is no suited for this footing					
Submission Requirements	No documentation is required for this feature.					
Related Features						

Data Capture Rules: Collect a closed polygon to its greatest horizontal extents, encompassing apron areas.



Illustrates the collection of the airport apron.

Monumentation	No monumentation required.			
Survey Point Location	Horizontal	Vei	Vertical	
Survey Foint Location	N/A	N/A		
Accuracy Requirements	Horizontal	Vertical		
	Horizontai	Orthometric	Ellipsoidal	
(in feet)	± 3 ft	± 5 ft	N/A	
Resolution	Geographic Coordinates	Distances an	nd Elevations	
Resolution	Hundredth of arc second	Tenth	of foot	

Feature Attributes	
Attribute (Datatype)	Description
name (String 30)	The name of the feature.
description (String 255)	Description of the feature
apronType	A classification of the typical use for the apron
(Enumeration: CodeApronType)	
numberOfTiedowns (Integer)	The approximate number of tiedowns in the surface.
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
surfaceType	A classification of airfield pavement surfaces for Airport
(Enumeration: codeSurfaceType)	Obstruction Charts [Source: NGS]
surfaceMaterial	A code indicating the composition of the related surface
(Enumeration:	[Source: NFDC]
codeSurfaceMaterial)	
pavementClassificationNumber	A number that expresses the relative load-carrying capacity of a
	pavement in terms of a standard single wheel load [Source: AC
2 6 11	150/5335-5]
surfaceCondition	A description of the serviceability of the pavement [Source:
(Enumeration:	NFDC]
codeSurfaceCondition)	
fuel (Enumeration: codeFuel)	Code indicating the types of fuel available at the apron or
	delverable to the apron.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.4.17. Deicing Area

Definition: An aircraft deicing facility is a facility where: (1) frost, ice, or snow is removed (deicing) from the aircraft in order to provide clean surfaces and/or (2) clean surfaces of the aircraft receive protection (anti-icing) against the formation of frost or ice and accumulation of snow or slush for a limited period of time [Source: AC 150/5300-13].

Airfield					
DeicingArea					
Polygon					
nts					
	Desc	ription			
Aircraft Deicing	Area				
Color Line type Line Weight Symbol					
7	Continuous 1		User Defined		
0					
Unclassified					
AIXM	DeicingArea		Core		
FGDC DeicingArea					
SDSFIE None					
No documentation is required for this feature.					
	DeicingArea Polygon nts Aircraft Deicing Color 7 0 Unclassified AIXM FGDC SDSFIE	DeicingArea Polygon nts Desc Aircraft Deicing Area Color Line type 7 Continuous Unclassified AIXM DeicingArea FGDC DeicingArea SDSFIE None	DeicingArea Polygon nts Description Aircraft Deicing Area Color Line type Line Weight 7 Continuous 1 Unclassified AIXM DeicingArea FGDC DeicingArea SDSFIE None		

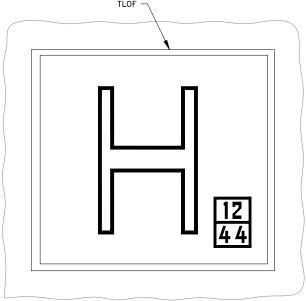
Related Features						
Data Capture Rules: Deicing						
edges of area(s). Deicing areas	s can be i	remote sites from the termin	nal buildings or in	the terminal area.		
Monumentation	No mor	numentation required.				
Survey Point Location		Horizontal	Vei	rtical		
Survey I omt Location		N/A	N	J/A		
A coursey Dequinements (in		Horizontal	Vei	rtical		
Accuracy Requirements (in feet)		Horizontai	Orthometric	Ellipsoidal		
leet)		± 3 ft	± 5 ft	N/A		
Resolution	Geo	ographic Coordinates	Distances and Elevations			
Resolution	Hundredth of arc second		Tenth of foot			
Feature Attributes						
Attribute (Datatype)]	Description			
name (VARCHAR2 (50))		The name of the feature.				
description (VARCHAR2(255)))	A brief description of the	area and any speci	ial characteristics.		
userFlag (String 254)		An operator-defined work	c area. This attribu	ite can be used by		
		the operator for user-defin	ned system process	ses. It does not		
		affect the subject item's d	ata integrity and sh	nould not be used		
	to store the subject item's data.					
status (Enumeration: codeStatu	ttus) A temporal description of the operational status of the feature.					
		This attribute is used to describe real-time status.				
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal			or poroposal		
		together into a version.				

5.4.18. Touch Down Lift Off

Definition: A load-bearing, generally paved area, normally centered in the Final Approach and								
Takeoff Area (FATO), on which a helicopter lands or takes off. The Touchdown and Lift-off Area								
(TLOF) is frequently called a h	(TLOF) is frequently called a helipad or helideck.							
Feature Group	Airfield							
Feature Class Name	TouchDownLiftO	ff						
Feature Type	Polygon							
CADD Standard Requirement	its							
Layer/Level	el Description							
C-HELI-TLOF	Helipad take off a	nd lan	ding area					
	Color Line type Line Weight Symbol							
AutoDesk Standards	6 1 MM Hand Defined							
MicroStation Standards	5 Continuous 7 User Defined							
Sensitivity	Unclassified							
	AIXM TouchDownLiftOff Core							
Equivalent Standards	FGDC TouchDownLiftOff							
	SDSFIE None							
Documentation and	ocumentation and No documentation is required for this feature.							
Submission Requirements	140 documentation	1 15 100	լաուշա ոշու ա	is icature.				

Related Features

Data Capture Rules: Collect a closed polygon in the center of the white paint stripes along the outer edges of the TLOF as a solid line and labeled "HELIPAD." Collect the outer edges of the TLOF pavement when there are no outer paint stripes. Collect all TLOFs located on the aircraft movement areas at compiler's discretion.



Monumentation No monumentation required.							
Survey Point Location	Horizontal	Vertical					
Survey I offit Location	N/A	N/A					
Acquire Deguirements (in	Horizontal	Vertical					
Accuracy Requirements (in feet)	Horizontai	Orthometric	Ellipsoidal				
ieet)	± 1 ft	± 0.25 ft	± 0.20 ft				
Resolution	Geographic Coordinates	Distances ar	nd Elevations				
Resolution	Hundredth of arc second	Nearest to	enth of foot				
Feature Attributes							
Attribute (Datatype)	Desc	Description					
name (String 50)	The name of the feature.						
description (VARCHAR2(255))	A brief description of the area and any special characteristics.						
length (Real)	The overall length of the TLOI	The overall length of the TLOF.					
width (Real)	The overall width of the TLOF.						
userFlag	An operator-defined work area	An operator-defined work area. This attribute can be used by					
	-	the operator for user-defined system processes. It does not					
	affect the subject item's data in	tegrity and shoul	d not be used to				
	store the subject item's data.						
surfaceType	A classification of airfield pave		r Airport				
(Enumeration: codeSurfaceType		Obstruction Charts [Source: NGS]					
surfaceMaterial	A code indicating the composition of the related surface						
(Enumeration:	[Source: NFDC]						
CodeSurfaceMaterial)							
surfaceCondition	A description of the serviceability of the pavement [Source:						
(Enumeration:	NFDC]						
codeSurfaceCondition)							

designHelicopter (String20)	A generic helicopter that reflects the maximum weight,		
	maximum contact load/minimum contact area, overall length,		
	rotor diameter, etc. of all helicopters expected to operate at the		
	heliport. [Source: AC 150/5390-2]		
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.		
	This attribute is used to describe real-time status.		
gradient (real)	The gradient of the TLOF surface designed to provide positive		
	drainage.		
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal		
-	together into a version.		

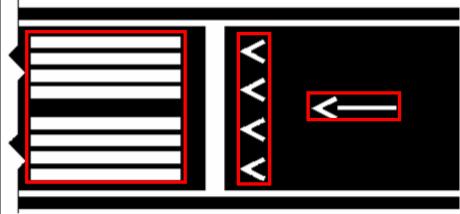
5.4.19. Marking Area

Submission Requirements

5.4.19. Marking Area								
Definition: Markings used on a	runway and taxiwa	y surfaces to ident	ify a specific runw	ay, a runway				
threshold, a centerline, a hold li	ine, etc. An elemer	nt of marking whos	se geometry is a po	olygon. [Source:				
AC 150/5340-1 and RTCA DO	·-272]							
Feature Group	Airfield	Airfield						
Feature Class Name	MarkingArea	MarkingArea						
Feature Type	Polygon							
CADD Standard Requirement	nts							
Layer/Level		Desci	ription					
C-HELI-IDEN-	Heliport number	rs and letters						
C-RUNW-DIST-	Fixed distance n	narkings						
	Color	Linetype	Line Weight	Symbol				
AutoDesk Standards	5	User Defined						
MicroStation Standards	1	Continuous	7	User Delineu				
Layer/Level	Description							
C-HELI-TDZM-	Touchdown zon	Touchdown zone markers						
C-RUNW-NUMB-	Runway number	rs and letters						
C-RUNW-TDZM-	Touchdown zon	e markers						
	Color	Linetype	Line Weight	Symbol				
AutoDesk Standards	6	Continuous	1	User Defined				
MicroStation Standards	5	Continuous	7	User Dermed				
Sensitivity	Unclassified							
	AIXM							
Equivalent Standards	FGDC							
	SDSFIE	airfield_surface_	_marking_area					
Documentation and Submission Requirements	No documentation	No documentation is required for this feature.						

Related Features

Data Capture Rules: Collect the runway markings as closed polygons to encompass and delineate the individual markings.



Monumentation	No monumentation required.						
	Horizontal Vertical						
Survey Point Location	NA NA		A				
	NA NA						
Accuracy Requirements (in feet)	Horizontal	Vertical					
	Horizontai	Orthometric	Ellipsoidal				
	± 2 ft	± 3 ft	N/A				
Resolution	Geographic Coordinates	Distances and Elevations					
	Hundredth of arc second	Nearest ter	nth of foot				

Feature	A	ttribı	ıtes

Attribute (Datatype)	Description
name (VARCHAR2(50))	Name of the feature.
description (VARCHAR2(255))	A description of the feature.
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
markingFeatureType	The type of the marking
(Enumeration:	
codeMarkingFeatureType)	
color (Enumeration: codeColor)	The color of the marking
userflag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.4.20. Marking Line

Definition: Markings used on runway and taxiway surfaces to identify a specific runway, a runway threshold, a centerline, a hold line, etc. An element of marking whose geometry is a line. [Source: AC 150/5340-1 and RTCA DO-272]

Feature Group	Airfield
Feature Class Name	MarkingLine
Feature Type	3D Line

CADD Standard Req	uirement	<u>s</u>					
Layer/Level Descri		iption	Layer/Le	vel	I	Description	
C-APRN-CNTR-	Center		•	C-PADS-OTLN	[-		outlines
C-APRN-HOLD-	Holdin	ng po	sition	C-RUNW-CNT	R-	Center	line markings
	marki			MARK			C
C-APRN-MRKG-	Apron		cings	C-RUNW-SHLD-		Shoulder markings	
C-APRN-SECU-	Securi			C-RUNW-SHL			y Shoulder
	marki	-					•
C-APRN-SHLD-	Shoule		ripes	C-RUNW-SIDE	<u> </u>	Side st	ripes
C-HELI-BLST-			st pad and	C-TAXI-CNTR	-MARK		line markings
			ırkings				
C-HELI-CNTR-			narkings	C-TAXI-EDGE	_	Edge r	narkings
MARK			8.				9.
C-HELI-DIST-	Fixed	distar	nce	C-TAXI-SHLD	_	Should	ler transverse
0 11221 2121	marki					stripes	
C-HELI-SIDE-	Side s	_		V-PVMT-MRK	G		ent markings
C-OVRN-CNTR-	Center			C-PVMT-MRK			ay markings
C O VIGIT CIVIR	Conto	imos		WHIT		(white	
C-OVRN-SHLD-	Should	der m	arkings	C-PVMT-MRK	G-	` '	yay markings
C O VIRT SILLD	Shoulder		arkings	YELO		(yellov	
C-PADS-CNTR-	Center	rlines		TEEO		(yenov	· · /
C Tribb Civile	Center	imes	Color	Linetype	Line V	Veight	Symbol
AutoDesk Standards	AutoDesk Standards		6		1		· ·
MicroStation Standa	rds		5	Continuous 7		User Defined	
Sensitivity		Rest	ricted				
			IXM MarkingElement Core				
Equivalent Standards	S		FGDC Marking				
_1			FIE airfield_surface_marking_line				
Documentation and							
Submission Requiren	nents	No	locumentation	on is required for	his featur	e.	
Related Features	_						
Data Capture Rules:	Collect a	line t	hrough the r	niddle of the pains	line		
Monumentation Monumentation	Concera			ion required.	www.		
		1101		zontal		Ver	tical
Survey Point Locatio	n			/A		N/A	
					Vertical		
Accuracy Requireme	nts (in		Horiz	zontal	Orthor		Ellipsoidal
feet)			+ ′	2 ft		$\pm 3 \text{ ft}$ N/A	
		-		Coordinates		Distances and Elevations	
Resolution				of arc second		Nearest tenth of foot	
Feature Attributes			Tundiedin C	or are second	11	carest te	illii Oi 100t
Attributes (Dat	tatyna)			Do	scription		
name (VARCHAR2(5			Name of th		scription		
description (VARCHAR2(255))							
status (Enumeration: codeStatus)		١	A description of the feature. A temporal description of the operational status of the feature.				
status (Enumeration: codestatus)		<i>'</i>		ite is used to descri			
markingFeatureType				f the marking	ioc icai-ti	me statt	10.
(Enumeration:			The type of	i die marking			
codeMarkingFeatureT	vne)						
Couciviai Kiiigi Catule I	y pc)						

color	The color of the marking
(Enumeration: codeColor)	
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.4.21. Movement Area

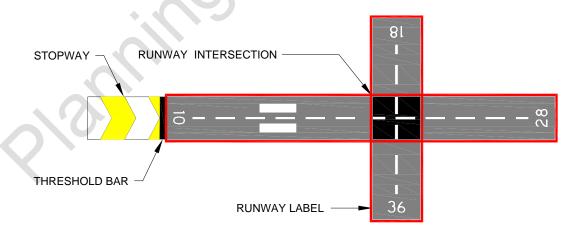
5.4.21. Movement Area							
Definition: Runways, taxiways,	and o	other areas o	f an airport used fo	or taxiing or hover	taxiing, air		
taxiing, takeoff, and landing of a	ircraf	ft, exclusive	of loading ramps a	and aircraft parking	g areas [Source:		
14 CFR Part 139]							
Feature Group	Air	field					
Feature Class Name	Mo	MovementArea					
Feature Type	Poly	ygon					
CADD Standard Requirement	s			0,			
Layer/Level			Descr	ription			
C-AFLD-SECR-SECA	Air	field security	y area				
		Color	Linetype	Line Weight	Symbol		
AutoDesk Standards		6	Continue	1	User Defined		
MicroStation Standards		5	Continuous	7	User Defined		
Sensitivity	Unc	classified	. 20				
•	AIX	KM					
Equivalent Standards	FG	DC					
_	SDS	OSFIE airfield_surface_marking_area					
Documentation and Submission Requirements	No documentation is required for this feature.						
Related Features							
Data Capture Rules: Collect e	each	portion of th	he movement area	as a closed polyg	on to its greatest		
horizontal extents. Multiple non							
Monumentation			tion required.	•			
			zontal	Ver	tical		
Survey Point Location		N	NΑ	NA			
	NA			NA			
				Ver	tical		
Accuracy Requirements (in		Hori	zontal	Orthometric	Ellipsoidal		
feet)	± 3 ft			± 5 ft	N/A		
200		Geographic	Coordinates	Distances an	d Elevations		
Resolution			of arc second		nth of foot		
Feature Attributes							
Attribute (Datatype) Description							
name (VARCHAR2(50))		Name of th		•			
description (VARCHAR2(255))	255)) Description of the feature						
status (Enumeration: codeStatus) A temporal description of the operational status of the feature.							
`	This attribute is used to describe real-time status.						

userFlag (String 254)	An operator-defined work area. This attribute can be used by				
	the operator for user-defined system processes. It does not				
	affect the subject item's data integrity and should not be used to				
	store the subject item's data.				
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal				
	together into a version.				

5.4.22. Runway

Definition: A defined rectangular area on an airport prepared for the landing and takeoff of aircraft.							
[AC 150/5300-13]							
Feature Group	Airfield						
Feature Class Name	Runway						
Feature Type	Polygon						
CADD Standard Requirement	S						
Layer/Level		Descr	ription				
C-RUNW-EDGE-	Airfield runway edges						
	Color Line type Line Weight Symbol						
AutoDesk Standards	6	Continuous		- User Defined			
MicroStation Standards	5 Continuous 3 Oser Defined						
Sensitivity	Resticted						
	AIXM	Runway	*	Core			
Equivalent Standards	FGDC	Runway					
	SDSFIE	airfield_surface_	_site				
Documentation and							
Submission Requirements	No documentation is required for this feature.						
Related Features							

Data Capture Rules: In addition to the requirements for runway end collection, capture the runway as a closed polygon limited by the outer edge of the runway edge paint (shoulder side), excluding runway shoulders or stopways. If there are no painted runway edge markings, capture and report the runway as a polygon at its narrowest dimension based on the existing pavement.



The red lines encompassing the runway illustrate the collection of the runways at an airport.

Monumentation	No monumentation required.		
Curryan Daint Lagation	Horizontal	Vertical	
Survey Point Location	N/A	N/A	

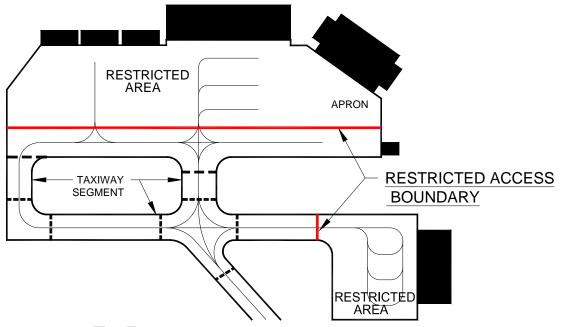
A D	Horizontal	Vertical			
Accuracy Requirements (in feet)	Horizontai	Orthometric	Ellipsoidal		
icci)	± 3 ft	± 5 ft	N/A		
Resolution	Geographic Coordinates		d Elevations		
Resolution	Hundredth of arc second	Nearest te	Nearest tenth of foot		
Feature Attributes					
Attribute (Datatype)		scription			
name (VARCHAR2(50))	Name of the feature.				
description (String 255)	Description of the feature				
status (Enumeration: codeStatus		•	700 7000 100		
	This attribute is used to descri				
runwayDesignator (String 7)	Designator of the runway bas				
	position in relation to parallel AC 150/5340-1]	l runways (e.g. 331	R/15L) [Source:		
width (Real)	A perpendicular line to the su	ırface centerline, e	xtending to the		
	edge of the runway pavement	t on both sides of t	he runway,		
	through a runway end-point.	If the runway wid	th is less than		
	100 feet, the width is rounded				
	runway width is more than 10				
	nearest 10 feet. If the rounded				
	published width, NGS should be contacted for further advice.				
	[Source: NGS]	L 1			
length (Real)	The straight line distance bet				
		does not account for surface undulations between points.			
		Official runway lengths are normally computed from runway			
		end coordinates and elevations.			
userFlag (String 254)	An operator-defined work are		•		
	the operator for user-defined	•			
	affect the subject item's data	integrity and shoul	d not be used to		
	store the subject item's data.		A :4		
surfaceType	A classification of airfield pa		or Airport		
(Enumeration: codeSurfaceType surfaceMaterial			1 sumface		
(Enumeration:	A code indicating the composition [Source: NFDC]	sition of the related	1 surface		
CodeSurfaceMaterial)	[Source: NFDC]				
pavementClassificationNumber	A number that expresses the	relative load corre	ing capacity of a		
pavementerassificationivulliber	pavement in terms of a standard				
	150/5335-5]				
surfaceCondition	A description of the serviceal	bility of the pavem	ent [Source:		
(Enumeration:	NFDC]	NFDC]			
codeSurfaceCondition)					
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal				
	together into a version.				

5.4.23. Restricted Access Boundary

Definition: A restricted area bo	oundary identifies areas strictly reserved for use by authorized personnel
only.	
Feature Group	Airfield
Feature Class Name	RestrictedAccessBoundary
Feature Type	Line

CADD Standard Requirements					
Layer/Level	Description				
C-AIRF-SECR-RSTR	Restricted access	s boundary			
	Color	Color Linetype Line Weight Symbol			
AutoDesk Standards	5	Continuous	1	User Defined	
MicroStation Standards	1	Continuous	7	Oser Defined	
Sensitivity	Confidential				
	AIXM	SecurityElement		Extension	
Equivalent Standards	FGDC	RestrictedAccess	Boundary	Extension	
	SDSFIE Military_restricted_access_area				
Documentation and	No do supportation is required for this facture				
Submission Requirements	No documentation is required for this feature.				
Related Features		·			

Data Capture Rules: Collect a line through the center of each marking to its greatest extents. Restricted access paint lines are either dashed white lines or alternating white/red/white solid lines.



Illustrates the collection of a restricted area boundary.

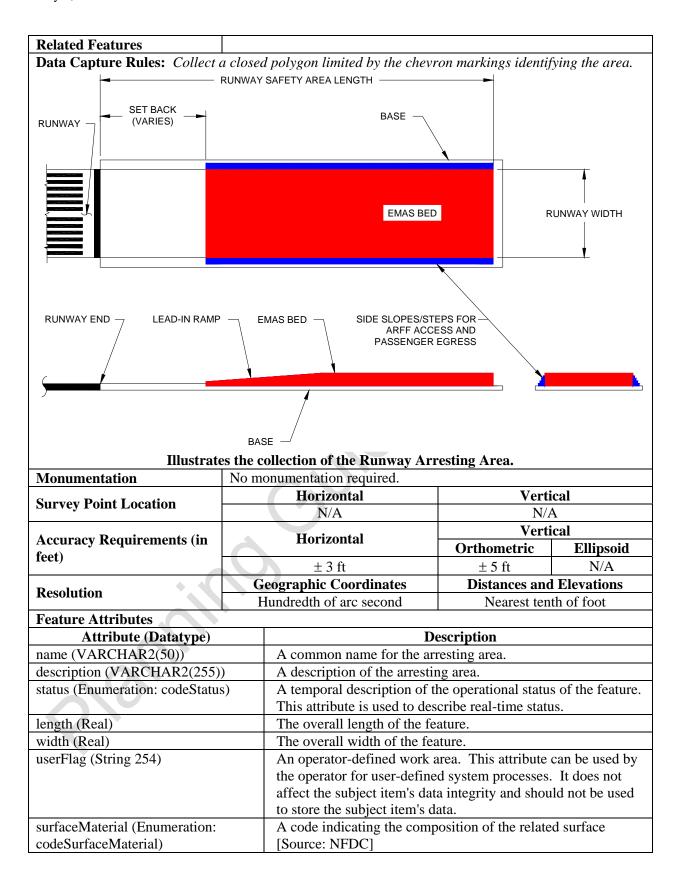
Monumentation	No monumentation required			
Survey Point Location	Horizontal	Vert	Vertical	
Survey Foint Location	NA	NA		
A course on Decuring onto (in	Horizontal	Vert	tical	
Accuracy Requirements (in feet)	Horizontai	Orthometric	Ellipsoidal	
reet)	± 3 ft	± 5 ft	N/A	
Resolution	Geographic Coordinates	Distances and Elevations		
Resolution	Hundredth of arc second	Nearest tenth of foot		
Feature Attributes				
Attribute (Datatype)	D	Description		
name (VARCHAR2(50))	A common name for the rest	A common name for the restricted area.		
description (VARCHAR2(255)	A description of the restricted area.			
status (Enumeration: codeStatus	s) A temporal description of	A temporal description of the operational status of the		
	feature. This attribute is used to describe real-time status.			

userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.4.24. Runway Arresting Area

Definition: Any FAA-approved high energy absorbing material of a specific strength that will reliably and predictably bring an aircraft to a stop without imposing loads that exceed the aircraft's design limits, cause major structural damage, or impose excessive force on its occupants. [Source: AC 150/5220-22].

150/5220-22].	inage, or impose t		as occupants [50	
1	T			4 7 7 7
Feature Group	Airfield			
Feature Class Name	RunwayArresting	RunwayArrestingArea		
Feature Type	Polygon			
CADD Standard Requiremen	ts			
Layer/Level		Descri	iption	
C-RUNW-ARSTC-RUNW-				
ARST-AIDS-CRIT				
	Color	Linetype	Line Weight	Symbol
AutoDesk Standards	3	Continuous	1 MM	User Defined
MicroStation Standards	2	Continuous	7	User Dernied
Sensitivity	Confidential	. 70		
	AIXM	ArrestingGear		Core
Equivalent Standards	FGDC RunwayArrestingArea			
	SDSFIE airfield_linear_safety_feature_line			
Documentation and	N. 1			
Submission Requirements	No documentation is required for this feature.			



surfaceCondition (Enumeration: codeSurfaceCondition)	A description of the serviceability of the pavement [Source: NFDC]
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.4.25. Runway Blast Pad

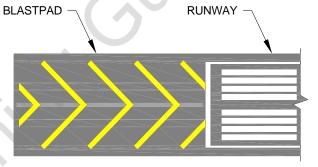
Definition: A specially prepared surface placed adjacent to the end of a runway to eliminate the erosive effect of the high wind forces produced by airplanes at the beginning of their takeoff rolls.

\mathcal{Q}		
Feature Group	Airfield	
Feature Class Name	RunwayBlastPad	
Feature Type	Polygon	

CADD Standard Requirements

Layer/Level	Description			
C-RUNW-BLST	Runway blast pad			
	Color	Linetype	Line Weight	Symbol
AutoDesk Standards	4	Continuous	Λ	User Defined
MicroStation Standards	7	Continuous	3	User Dernied
Sensitivity	Restricted			
	AIXM	RunwayBlastPad		Core
Equivalent Standards	FGDC	RunwayBlastPad		
	SDSFIE	airfield_linear_so	afety_feature_line	
Documentation and	No additional documentation is required.			
Submission Requirements				
Related Features				

Data Capture Rules: Collect a closed polygon to the extents of the chevrons marking the area.



Illustrates the collection of a blast pad.

Monumentation	No monumentation is required.			
Curvey Doint Leastion	Horizontal	Vert	Vertical	
Survey Point Location	N/A	N/	N/A	
D : (:	Harizantal	Vert	Vertical	
Accuracy Requirements (in	Horizontal	Orthometric	Ellipsoidal	
feet)	± 2 ft	± 3 ft	N/A	
Resolution	Geographic Coordinates	Distances an	d Elevations	
Resolution	Hundredth of arc second	Nearest tenth of foot		

Feature Attributes	
--------------------	--

2 44441 4 114411 4444	
Attribute (Datatype)	Description
name (String 50)	Name of the feature.

description (VARCHAR2(255))	Description of the feature
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
length (Integer)	The length of clearway as measured. Compare the measure
	value to the value reported in the government flight information
	publications.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
pavementClassificationNumber	A number that expresses the relative load carrying capacity of a
	pavement in terms of a standard single wheel load [Source: AC
	150/5335-5]
surfaceCondition	A description of the serviceability of the pavement [Source:
(Enumeration:	NFDC]
codeSurfaceCondition)	
surfaceMaterial	A code indicating the composition of the related surface
(Enumeration:	[Source:
codeSurfaceMaterial)	NFDC]
surfaceType	A classification of airfield pavement surfaces for Airport
(Enumeration:	Obstruction Charts [Source: NGS]
codeSurfaceType)	
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together
	into a version.

5.4.26. Runway End

5.4.20. Kunway End						
Definition: The end of the run	nway surface suitab	le for landing or ta	keoff runs of aircr	aft. Runway		
Ends describe the approach an	Ends describe the approach and departure procedure characteristics of a runway threshold. The					
Runway End is the same as the	Runway End is the same as the runway threshold when the threshold is not displaced.					
Feature Group	Airfield					
Feature Class Name	RunwayEnd					
Feature Type	Point					
CADD Standard Requireme	CADD Standard Requirements					
Layer/Level	Description					
C-RUNW-ENDP-	Runway endpoint					
	Color Linetype Line Weight Symbol					
	Color	Linetype	Line Weight	Symbol		
AutoDesk Standards	Color 5	•	Line Weight 1	Ĭ		
AutoDesk Standards MicroStation Standards	5 1	Linetype Continuous	Line Weight 1 7	Symbol User Defined		
	5 1 Restricted	•	Line Weight 1 7	Ĭ		
MicroStation Standards	5 1	•	1 7	Ĭ		
MicroStation Standards	5 1 Restricted	Continuous	1 7	User Defined		
MicroStation Standards Sensitivity	5 1 Restricted AIXM	Continuous RunwayDirection	1 7 nExtension	User Defined		
MicroStation Standards Sensitivity	5 1 Restricted AIXM FGDC SDSFIE	Continuous RunwayDirection RunwayEnd	1 7 nExtension site	User Defined Extension		
MicroStation Standards Sensitivity Equivalent Standards	5 1 Restricted AIXM FGDC SDSFIE In addition to to	Continuous RunwayDirection RunwayEnd Airfield_surface_	1 7 nExtensionsiteof_paragraphs	User Defined Extension 1.6.2 and 1.6.3,		



Photograph Type #1 (Eye Level).

Photo taken from above the mark, showing an area around the mark about 1 meter in diameter.



Photograph Type #2 (Approach).

Photo showing tripod over the mark in foreground and approach in the background.



Photograph Type #3 (Across Runway).

Photo taken from the side of the runway looking across the end of the runway, with a tripod or arrow indicating the end point; include any features used to identify the runway end.



Photograph Type #4 (Close-in).

Close-up photo depicting nail, washer and markings.

Related Features

Data Capture Rule: Establish the runway end on the runway centerline at the physical end, or specified location based on other supporting features. The area between the runway end and the displaced threshold should be marked with white arrows.

Monumentation

When the ends of the runway surface have been determined, mark the positions using a nail and washer with the setting company's name and year inscribed, chisel square, or paint if possible with a distinctive inscription to ensure future identification.

Concrete Runway and No Aligned Taxiway

Survey Point Locator is the limit of construction or the trim line at the first good pavement, unless these lines are located on the approach side of runway end lights. Supporting features include:

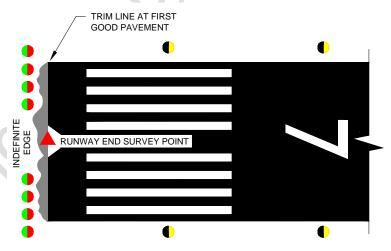
Survey Point Location

- Runway end lights near runway end
- Threshold bar near runway end (usually present only if non-runway pavement is aligned with runway)
- Threshold lights near runway end and usually in same fixture as runway end lights (if threshold not displaced)

- Runway number near runway end (if threshold not displaced)
- Runway edge lights (white or amber) extending to runway end

Comments: The limit of construction usually defines the survey point for the ends of concrete runways. A surface discontinuity defines the limit of construction. Do not confuse the runway end with the end of a blast pad, stopway, or other non-runway surface. Refer to the figure below for an example of this scenario.



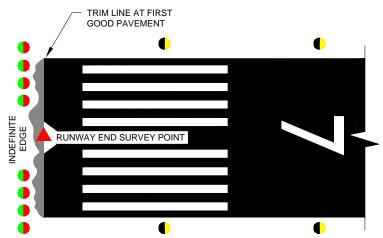


Paved/Non-concrete Runway and No Aligned Taxiway

Survey Point Locator is the limit of construction or the trim line at first good pavement, unless these lines are located on approach side of runway end lights. Supporting features include:

- Runway end lights near runway end
- Threshold bar near runway end (usually present only if non-runway pavement is aligned with runway)
- Threshold lights near runway end and usually in same fixture as runway end lights (if threshold not displaced)
- Runway number near runway end (if threshold not displaced)
- Runway edge lights (white or amber) extending to runway end

Comments: While the limit of construction is the first choice, a trim line at first good pavement is usually required to define the ends of paved, non-concrete runways since the ends of these surfaces are almost always crumbling and/or not orthogonal to the runway centerline to some degree. Refer to the figures above and below as examples.

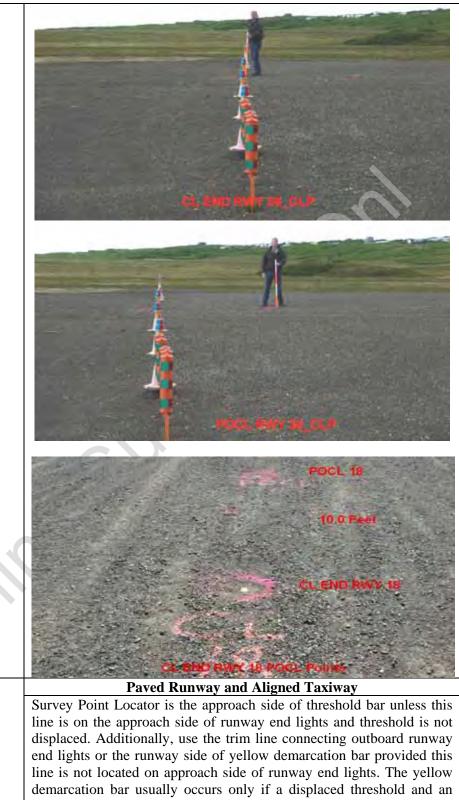




Unpaved Runway and No Aligned Taxiway

Survey Point Locator is the trim line 10 feet on touchdown side of inboard runway end lights, a trim line connecting outboard runway end lights, a trim line 10 feet on touchdown side of inboard runway end day markers, or a trim line connecting outboard runway end day markers. Supporting features are threshold lights near threshold (if runway lighted and threshold not displaced)

Comments: If no lights or markers exist, the existence of a runway is in question since by FAA definition, a runway is a defined area. Not all areas used for takeoff/landings are runways.



aligned taxiway or stopway both exist.)

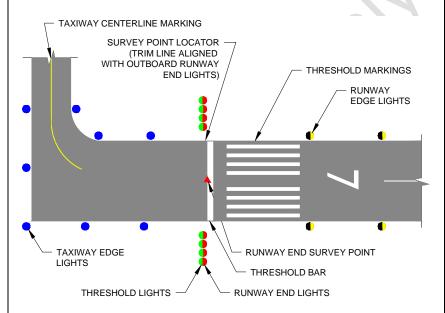
Supporting features include:

Threshold lights near runway end and usually in same fixture as

runway end lights (if threshold not displaced)

- Runway number near runway end (if threshold not displaced)
- Yellow aligned taxiway painting on approach side of threshold bar
- Taxiway edge lights between runway end and taxiway end
- Absence of runway side stripes between runway end and end of pavement on Precision Instrument Runways

Comments: Use caution, especially on smaller, poorly marked airports, not to confuse a displaced threshold and a runway end for a runway with an aligned taxiway.



NOTES:

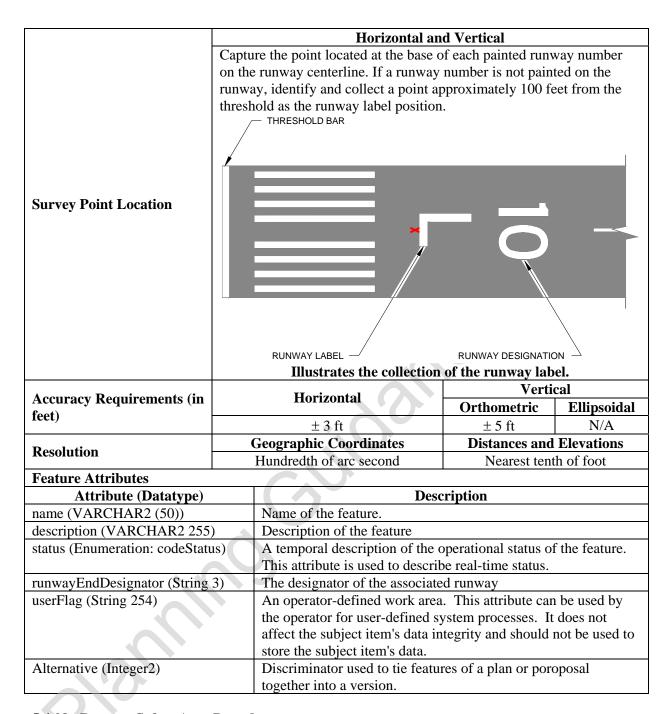
- 1. THIS GRAPHIC IS NOT TO SCALE. FEATURES ARE SYMBOLIZED AND INTENDED ILLUSTRATION PURPOSES ONLY.
- 2. RUNWAY/STOPWAY SURVEYS SHOULD BE DISCUSSED WITH APPROPRIATE AIRPORT AUTHORITIES.
- 3. SURVEY POINT LOCATOR:
- TRIM LINE ALIGNED WITH OUTBOARD RUNWAY END LIGHTS IF NO THRESHOLD
 BAR OR IF APPROACH SIDE OF THRESHOLD BAR IS IN APPROACH SIDE OF RUNWAY
 END LIGHTS.
- 4. SUPPORTING FEATURES
 - RUNWAY END LIGHTS NEAR THRESHOLD BAR
- THRESHOLD MARKINGS NEAR RUNWAY END LIGHTS
- RUNWAY NUMBER NEAR RUNWAY END LIGHTS
- TAXIWAY EDGE LIGHTS BETWEEN RUNWAY END AND END OF PAVEMENT
- ______
- 5. COMMENTS:
 - NONSTANDARD MARKINGS FOR RUNWAY WITH ALIGNED TAXIWAY.
 - THRESHOLD BAR EXTENDS TO APPROACH SIDE OF RUNWAY END LIGHTS
 - RUNWAY CANNOT EXTEND TO APPROACH SIDE OF RUNWAY END LIGHTS

	Unpaved Runway and Aligned Taxiway			
	Survey Point Locator is the trim line connecting outboard runway end lights or the trim line connecting outboard runway end day markers Supporting features include threshold lights near threshold (if threshold not displaced) or runway/taxiway edge lights (if runway is lighted).			
	this si	ments: Unpaved runways with ituation is suspected, verify any ed with, the runway is used ed appropriately for this purpos	y area immediately for taxi onto the se.	adjacent to, and runway and is
Accuracy Requirements (in		Horizontal		tical
feet)		110112011441	Orthometric	Ellipsoidal
1000)		± 1.00 ft	± 0.25 ft	± 0.20 ft
Resolution		Geographic Coordinates	Distances an	d Elevations
]	Hundredth of arc second	Nearest ten	th of a foot
Feature Attributes				
Attribute (Datatype)		De	scription	
name (VARCHAR2(50))		Name of the feature.		
description (VARCHAR2(255))	Description of the feature		
ellipsoidHeight (Real)	The height above the reference ellipsoid, measured along t ellipsoidal outer normal through the point in question. Also called the geodetic height. [Source: NGS]			
status (Enumeration: codeStatu	ıs)	A temporal description of the This attribute is used to description	e operational statu	
approachCategory (Enumeration codeApproachCategory)	on:	A grouping of aircraft based on 1.3 times their stall speed in the landing configuration at the certificated maximum flap setting and maximum landing weight at standard atmospheric conditions [Source: AC 150/5300-13]		
approachGuidance (Enumerati codeApproachGuidance)	on:	The type of approach guidance		nway end.
accelerateStopDistanceAvail (Integer)		The runway plus stopway length declared available and suitable for the acceleration and deceleration of an airplane aborting a takeoff [Source: AC 150/5300-13]		
magneticBearing (Real)		Magnetic runway bearing corresponding to threshold location valid at the day of data generation [Source: RTCA DO-272]		
trueBearing (Real)		True bearing corresponding to the landing direction [Source: ICAO Annex 14]		
designGroup (Enumeration: codeDesignGroup)		A grouping of airplanes based on wingspan and or tailheight, whichever is greatest. [Source: AC 150/5300-13]		
displacedDistance (Integer)		The distance from the runway end to the landing threshold. When the thresholdType is normal, displacedDist = 0.		
landingDistanceAvailable (Inte	able (Integer) The runway length declared available and suitable for a land airplane.			ble for a landing
runwayEndDesignator		The designator for the runway	y end (i.e. 32L)	
runwaySlope (Real)		Runway slope corresponding to landing direction [Source: RTCA DO-272]		
takeOffDistanceAvailable		The takeoff run available plurunway clearway beyond the available. [Source: AC 150/5]	far end of the take	_

takeOffRunwayAvailable	The runway length declared available and suitable for the			
	ground run of an airplane taking off [Source: AC 150/5300-13]			
touchdownZoneSlope	The longitudinal slope of the first 3000 feet of the runway			
	beginning at the threshold.			
touchdownZoneElevation	The highest elevation in the Touchdown Zone. The Touchdown			
	Zone is the first 3,000 feet of the runway beginning at the			
	threshold. [Source: FAA Order 8260.3]			
thresholdType (enumeration:	A description of the landing threshold: either normal or			
codeThresholdType)	displaced.			
userFlag (String 254)	An operator-defined work area. This attribute can be used by			
	the operator for user-defined system processes. It does not			
	affect the subject item's data integrity and should not be used to			
	store the subject item's data.			
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal			
	together into a version.			

5.4.27. Runway Label

5.4.27. Kuliway Label						
Definition: The bottom center	position of the run	way designation m	arking			
Feature Group	Airfield					
Feature Class Name	RunwayLabel					
Feature Type	Point					
CADD Standard Requirement	nts		·			
Layer/Level	Description					
C-RUNW-IDEN-MARK	Runway numbers and letters					
	Color	Linetype	Line Weight	Symbol		
AutoDesk Standards	6	Continuous 1 MM 7		User Defined		
MicroStation Standards	5					
Sensitivity	Restricted	Restricted				
	AIXM	AIXM RunwayMarking Core				
Equivalent Standards	FGDC	RunwayLabel				
	SDSFIE airfield_buffer_zone_area					
Documentation and	No decrementation is manifed for this feature					
Submission Requirements	No documentation is required for this feature.					
Related Features	,	·				
Data Capture Rules: Collect	the runway label as	an individual poir	nt object.			
Monumentation	No monumentation	No monumentation required.				



5.4.28. Runway Safety Area Boundary

	to the transfer of
Definition: The boundary of	the Runway Safety Area (RSA).
Feature Group	Airfield
Feature Class Name	RunwaySafetyAreaBoundary
Feature Type	Polygon
CADD Standard Requireme	ents
Layer/Level	Description
C-RUNW-SAFT-	Runway Safety Area

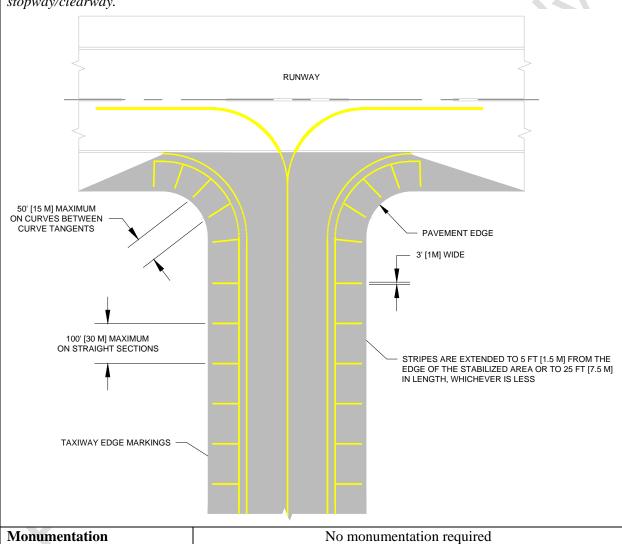
	Color	Line type	Line Weight	Symbol	
	5	Continuous	1	User Defined	
	1	Continuous	7	User Delined	
Uncla	ssified				
AIXN	AIXM RunwaySafetyArea		eaBoundary	Extension	
FGD	C	RunwaySafetyAre	eaBoundary	Extension	
SDSF	TIE	None	•		
No do	cumentation	is required for thi	s feature.		
. ,			• . 1		
			rizontal extents.		
No m			¥7	4.1	
	N.	A			
	Horizontal				
				Ellipsoidal	
_					
			Distances and Elevations		
]	Hundredth o	f arc second	Nearest tenth of foot		
	ı				
Attribute (Datatype) name (String 50)			scription		
(255)) Description of the					
		temporal description of the operational status of the feature.			
` '		A formal declaration of the RSA condition with respect to			
determination (*/IRCITIRE (255))		standards and any requirement improvements			
	An operator-defined work area. This attribute can be used by				
	the operator for user-defined system processes. It does not				
	affect the subject item's data integrity and should not be used to				
	Discrimina	criminator used to tie features of a plan or poroposal together			
>					
	Uncla AIXM FGDO SDSF No do No m	I Unclassified AIXM FGDC SDSFIE No documentation as a closed polygon No monumentation Horiz Language Horiz Geographic Hundredth o Name of the standards a An operate affect the statore the su Discrimina	5 Continuous Unclassified AIXM RunwaySafetyArd FGDC RunwaySafetyArd SDSFIE None No documentation is required for thi as a closed polygon to its greatest ho No monumentation required Horizontal NA Horizontal ± 3 ft Geographic Coordinates Hundredth of arc second Denote Name of the feature Is A temporal description of the This attribute is used to descreate the RSA determinate the An operator-defined work at the operator for user-define affect the subject item's data store the subject item's data.	5 Continuous 7 Unclassified AIXM RunwaySafetyAreaBoundary FGDC RunwaySafetyAreaBoundary SDSFIE None No documentation is required for this feature. As a closed polygon to its greatest horizontal extents. No monumentation required Horizontal Ver NA NA NA Horizontal Ver Orthometric ± 3 ft ± 5 ft Geographic Coordinates Distances an Hundredth of arc second Nearest te Description Name of the feature (as) A temporal description of the operational status This attribute is used to describe real-time statu The date the RSA determination was approved (255)) A formal declaration of the RSA condition standards and any requirement improvements An operator-defined work area. This attribute the operator for user-defined system process affect the subject item's data. Discriminator used to tie features of a plan or p	

5.4.29. Shoulder

Definition: An area adjacent to the edge of paved runways, taxiways, or aprons providing a transition					
between the pavement and the	adjacent surface; su	ipport for aircraft r	running off the pay	ement, enhance	
drainage, and blast protection.	[Source: AC 150/53	300-13]			
Feature Group	Airfield				
Feature Class Name	Shoulder				
Feature Type	Polygon	Polygon			
CADD Standard Requirement	nts				
Layer/Level	Description				
C-HELI-SHLD-	Shoulder				
C-PADS-SHLD-	Shoulders with annotation				
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	6	Continuous	1	User Defined	
MicroStation Standards	5	Continuous	7	User Defined	

Sensitivity	Restricted		
	AIXM	RunwayElement	Core
Equivalent Standards	FGDC	RunwayElement	
	SDSFIE	Airfield_surface_site	
Documentation and Submission Requirements	No documentation	n is required for this feature.	
Related Features			

Data Capture Rules: Collect non-intersecting shoulders as individual polygons. Collect intersecting shoulders as multiple polygons when intersected by taxiways, intersecting runway, or stopway/clearway.





5.4.30. Taxiway Intersection	on				
Definition: The junction of	two or more taxiwa	ys (Source: ICAO	Annex 14, Volume	e 1, Aerodromes,	
Chapter 1, page 5).					
Feature Group	Airfield	Airfield			
Feature Class Name	TaxiwayInterse	TaxiwayIntersection			
Feature Type	Polygon				
CADD Standard Requirem	nents				
Layer/Level		Descr	iption		
C-TAXI-INTS	Taxiway interse			4.4	
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	5		1 MM		
MicroStation Standards	0	Continuous	7	User Defined	
Sensitivity	Restricted	·			
	AIXM	TaxiwayElement		Core	
Equivalent Standards	FGDC	TaxiwayIntersect	tion	Ir.	
1	SDSFIE	None	0,		
Documentation and					
Submission Requirements	No documentati	ion is required for the	nis feature.		
Related Features					
Data Capture Rules: Capture	ure a polygon establ	ishing the intersecti	on of two or more	taxiways	
	Taxiway I	ntersection			
Monumentation	No monumentation	n required.			
Survey Point Location		Horizontal ar	nd Vertical		
Survey Foint Location		N/A	1		
A P	TT	rontol	Ver	tical	
Accuracy Requirements	Horiz	Horizontal	Orthometric	Ellipsoidal	
(in feet)	± 3	3 ft	± 5 ft	N/A	
_	Geographic			d Elevations	
Resolution	IIdua 1/1.	f and space d	Magazi iz	ath of foot	

Hundredth of arc second

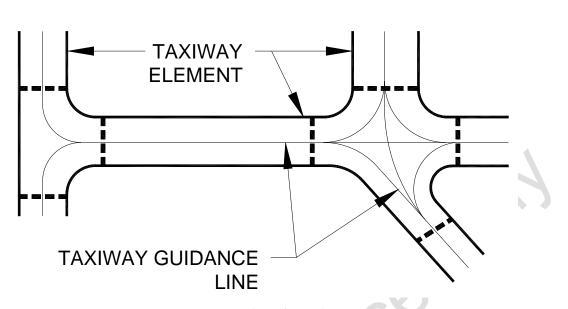
Nearest tenth of foot

Feature Attributes	
Attribute (Datatype)	Description
name (VARCHAR2 (50))	Name of the feature.
description (VARCHAR2 255)	Description of the feature
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.4.31. Taxiway Element

5.4.51. Taxiway Element					
Definition: Defined paths on	an airport estab	lished for the tax	kiing of aircraft	(excluding apron	
taxilanes) and intended to provi	de a link between	one part of the airp	ort and another.		
Feature Group	Airfield				
Feature Class Name	TaxiwayElement	- •			
Feature Type	Polygon				
CADD Standard Requiremen	ts				
Layer/Level	ayer/Level Description				
C-TAXI-OTLN	Taxiway - outlines				
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	4	Continuous	1 MM	User Defined	
MicroStation Standards	7	Continuous	7	User Defined	
Sensitivity	Restricted				
	AIXM TaxiwayElement Core				
Equivalent Standards	FGDC TaxiwayElement				
	SDSFIE airfield_surface_site				
Documentation and	No documentatio	n is required for th	sic footure		
Documentation and Submission Requirements	No documentation	on is required for th	nis feature.		

Data Capture Rules: Collect all taxiway elements as individual polygon objects. Collect taxiway at the outer edge of pavement or defined paint line (excluding shoulder). Each taxiway will typically be comprised of more than one element. When multiple elements make up a taxiway, identify the taxiway elements as beginning, intersection and end in the name attribute. Be sure to comply with the no overlappping polygon rule.



Illustrates the collection of a taxiway element.

Monumentation	No monumentation required.					
Survey Point Location		Horizontal	Vert	tical		
Survey I offit Location		N/A	N/A			
A common Dogwinom anta (in		Horizontal	Vertical			
Accuracy Requirements (in feet)		Horizontai	Orthometric	Ellipsoidal		
leet)		± 3 ft	± 5 ft	N/A		
Resolution		Geographic Coordinates	Distances an	d Elevations		
Resolution		Hundredth of arc second	Nearest tei	nth of foot		
Feature Attributes						
Attribute (Datatype)		De	scription			
name (VARCHAR2 (50))		Name of the feature.				
description (VARCHAR2 255)		Description of the feature				
taxiwayId (VarChar2(50))		Taxiway element name. The	name should be ide	entical to the		
* 4		corresponding taxiway name. Multiple taxiway elements can				
		have the same name. If two o				
		taxiway element intersection will be named after the				
		predominant taxiway. If two				
		intersect, the element can be	named arbitrarily a	fter one of the		
		taxiways.				
taxiwayType		The type of taxiway				
(Enumeration: CodeTaxiwayTy						
status (Enumeration: codeStatus	s)	A temporal description of the	•			
		This attribute is used to descr				
userFlag (String 254)		An operator-defined work are				
		the operator for user-defined system processes. It does not				
		affect the subject item's data integrity and should not be used to				
		store the subject item's data.				
surfaceMaterial		A code indicating the compos	sition of the related	I surface		
(Enumeration:		[Source: NFDC]				
CodeSurfaceMaterial)						

pavementClassificationNumber	A number that expresses the relative load-carrying capacity of a
	pavement in terms of a standard single wheel load [Source: AC
	150/5335-5]
surfaceCondition	A description of the serviceability of the pavement [Source:
(Enumeration	NFDC]
codeSurfaceCondition)	
directionality	Code used to define the directionality of traffic on the element.
(Enumeration: CodeDirectionality)	
sequence	Sequential number of the taxiway element.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together
	into a version.

5.5. Group: AIRSPACE

5.5.1. Landmark Segment

Definition: Features providing geographic orientation near the airport vicinity. The features may or may not have obstruction value. Collect geographic features of landmark value aiding in geographic orientation as individual polyline objects. These features include, but are not limited to, the following:

- (1). A selection of roads (i.e. major highways, primary roads, etc.) and railroads, especially in the airport vicinity, to assist the user in geographic orientation.
- (2). Shoreline (i.e. coastlines, lakes, rivers, etc.) of landmark value that aid in geographic orientation.
- (3). Utility lines (i.e. transmission lines), levees, fence lines, or other linear features having obstruction or landmark value.
- (4). Buildings or other features of landmark value that aid in geographic orientation.
- (5). Runways with specially prepared hard surfaces that are not located on the airport being surveyed, but fall within the survey limits.
- (6). Closed runways if they are sufficiently prominent to be of value to a pilot in airport identification.

	1				
Feature Group	Airspace				
Feature Class Name	LandmarkSegment				
Feature Type	Line		•		
CADD Standard Requireme	ents	A. O.			
Layer/Level		Descri	ption		
C-AIRS-LNDM	Landmark segment				
	Color	Line type	Line Weight	Symbol	
AutoDesk Standards	3	Continuous	1 MM	User Defined	
MicroStation Standards	2	Continuous	7	User Derineu	
Sensitivity					
	AIXM	LandmarkSegme	nt	Extension	
Equivalent Standards	FGDC	LandmarkSegme	nt	Extension	
	SDSFIE None				
Documentation and Submission Requirements	No documentation	is required for this	feature.		
Related Features					

Data Capture Rules: Be sure that the attribute field for "CodeLandmarkType" correctly identifies the linear object being drawn. Each landmark type feature has its own data capture rule, collect each feature as defined in individual feature data capture rule (RoadSegment, UtilityLine, Shoreline, etc.).

Monumentation	No mo	numentation required.			
Survey Point Location		Horizontal	Vertical		
Survey Foliit Location		N/A	N/A		
Accuracy Requirements (in feet)		Howigantal	al		
		Horizontal	Orthometric Ellipso		
	± 5 ft		± 5 ft	N/A	
Decelution	G	eographic Coordinates	Distances and	l Elevations	
Resolution		re hundredth of arc second	Nearest foot		
Feature Attributes					
Attribute (Datatype)	De	escription		
name (VARCHAR2 (50))		Name of the feature.			

description (VARCHAR2 255)	Description of the feature
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
landmarkType	Type of landmark feature
(Enumeration:	
CodeLandmarkType)	
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.5.2. Obstacle

Definition: All fixed (whether temporary or permanent) and mobile objects, or parts thereof, located on an area intended for the surface movement of aircraft, penetrating an Obstruction Identification Surface (OIS), or selected as a representative object. Use this feature for modeling linear objects as obstacles.

obstacies.					
Feature Group	Airspace				
Feature Class Name	Obstacle				
Feature Type	Point				
CADD Standard Requirements			·		
Layer/Level		Des	cription		
C-AIRS-OBST-LINE	Airspace obs	truction - Line			
C-AIRS-OBST-PPNT	Airfield obst	ruction			
	Color	Line type	Line Weight	Symbol	
AutoDesk Standards	2	Continuous	1	User Defined	
MicroStation Standards	4	Continuous	7	User Defined	
Sensitivity	Confidential				
	AIXM	Obstacle		Extension	
Equivalent Standards	FGDC	Obstacle		Extension	
	SDSFIE	None			
Documentation and Submission					
Requirements	No documen	No documentation is required for this feature.			
Related Features					
Data Cantura Rules: Use the Obs	tacle feature to	ung for point or lin	a faaturas nanatra	ting an	

Data Capture Rules: Use the Obstacle feature type for point or line features penetrating an Obstruction Identification Surface (OIS) or selected as a representative object. Model line features as points representing the vertices of the line.

Monumentation	No monumentation required.					
Survey Point Location		Horizontal		Vertical		
Survey Foint Location	Cen	ter of the object		Highest point		
	Accura	acy Requirement	ts			
(in feet relative	feet relative to the nearest PACS, SACS, HRP or TSM)					
Runways S	Supporting	g Vertically Guid	ded Operations			
	Horizontal Vertical					
	Horizontal Orthometric Ellipsoid A				AGL	
Vertically Guided Runway Primary (VGRPS)	Surface	± 20	± 3	± 3	± 10	

		1	1	1	1		
Vertically Guided Primary Connection Surface (VGPCS)		± 20	± 3	± 3	± 10		
Vertically Guided Protection Surface (VGPS)		± 20	± 3	± 3	± 10		
Vertically Guided Approach Tra Surface (VGATS)	nsition	± 20	± 3	± 3	± 10		
Vertically Guided Approach Sur (VGAS)	face	± 20	± 10	± 3	± 10		
Vertically Guided Horizontal Su (VGHS)	rface	± 20	± 10	± 10	± 10		
Vertically Guided Conical Surface	ce (VGCS)	± 20	± 10	± 10	± 10		
Runways Supporting Non-Ver		ded Operations					
	-	Horizontal	,	Vertical			
		Horizontai	Orthometric	Ellipsoid	AGL		
Non-vertically guided primary su	ırface	± 20	± 3	±3	± 3		
Non-vertically guided approach	surface	± 20	± 10	± 10	± 10		
Non-vertically guided transitiona		± 20	± 10	± 10	± 10		
Non-vertically guided horizontal	surface	± 50	± 20	± 20	± 10		
		aphic Coordinates	s Distan	ces and Eleva	tions		
Resolution	Hund	redth of arc second	T	enth of a foot			
Feature Attributes							
Attribute (Datatype)			Description				
name (VARCHAR2 (50))		e of the feature.					
description (VARCHAR2 (255))							
status (Enumeration: codeStatus)		nporal description of attribute is used to			eature.		
obstacleType	The	ype of object.					
(Enumeration: CodeObstacleTyp							
obstacleSource (Enumeration: CodeObstacleSource)	Iden	ify how or where the	he object was ider	ntified.			
aboveGroundLevel (Real)	The object	vertical distance fro	om the ground to t	he highest poi	nt of the		
distanceFromDisplacedThreshol			g runway centerli	ne or centerlin	e		
(Real)		Distance measured along runway centerline or centerline extended from a Displaced Threshold to point abeam the object.					
	A ne	A negative distance indicates that the object is on the					
		touchdown side of the runway approach end. This data is not					
. (2)	_	provided for objects penetrating the horizontal, conical and					
" " " " " " " " " " " " " " " " " " " "		ay transitional surf					
distanceFromRunwayCenterline		test distance from t					
(Real)		ided to the object.					
		to an observer facing forward in a landing aircraft. This data is not provided for objects penetrating the horizontal, conical and					
		ay transitional surf		orizontai, com	cai aiiu		
distanceFromRunwayEnd (Real)		ince measured alon		ne or centerlin	e		
istance romitanway End (iteal)							
		extended from the physical end to point abeam the object. A negative distance indicates that the object is on the touchdown					
		side of the runway approach end. This data is not provided for objects penetrating the horizontal, conical and transitional					
		(HCT) surfaces.					

groupCode (String 75)	A text code indicating that the object consists of a group of
	objects of the same type. For example, a group of trees, a group
	of buildings, a group of antennas, etc [Source: AIXM]
heightAboveAirport (Integer)	Height above airport the official airport elevation point
	[Source: NGS]
heightAboveRunway (Real)	Height above runway physical end for objects located
	underneath the approach surface.
heightAboveTouchdownZone	Height above touchdown zone elevation for objects located
(Real)	underneath the approach surface [Source: NGS]
lightCode (Boolean)	A code indicating that the obstacle is lighted [Source: AIXM]
markingFeatureType (Enumeration:	The type of the marking
codeMarkingFeatureType)	
penValSpecified (Integer)	The elevation difference between the height of the object and
	the specified surface. Used to identify the amount of
	penetration of the main OIS.
penValSupplemental (Integer)	The elevation difference between the height of the object and
	the supplemental surface. Used to identify the amount of
	penetration to a secondary OIS.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
ellipsoidHeight (Real)	The height above the reference ellipsoid, measured along the
	ellipsoidal outer normal through the point in question.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.5.3. Obstruction Area

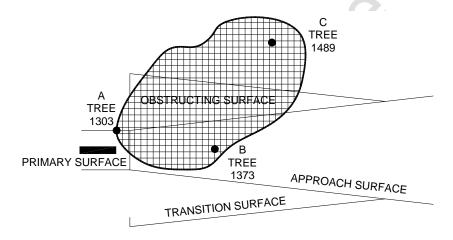
Definition: Polygon features penetrating the plane of the obstruction identification surface (OIS) or selected as representative objects. Determine the type of obstructing area by the predominant feature within the grouped area. Penetrating groups of trees, ground, buildings, urban areas, mobile cranes, and agricultural area are the most common types of obstruction areas found within the surfaces of an Airport Airspace Analysis survey.

Feature Group	Airspace						
Feature Class Name	ObstructionAre	ObstructionArea					
Feature Type	Polygon						
CADD Standard Requirement	S						
Layer/Level		Descr	ription				
C-AIRS-OBST-POLY	Airspace obstru	ection					
	Color Linetype Line Weight Symbol						
AutoDesk Standards	2	2 Continuous 1 MM User Defi					
MicroStation Standards	0	Continuous	7	User Defined			
Sensitivity	Restricted						
	AIXM	ObstructionArea		Core			
Equivalent Standards	FGDC	ObstructionArea					
	SDSFIE airspace_obstruction_navaid_point						
Documentation and Submission Requirements	No documentation is required for this feature.						
Submission Requirements							

Related Features

Data Capture Rules: Use the ObstructionArea feature type to model features penetrating an OIS or is selected as a representative object using a bounding polygon encompassing the greatest extents of the area and the height of the highest point within the feature.

<u>Area Limit Object Requirements</u> – When a large area of objects such as buildings, terrain or vegetation penetrate a surface, identify the limits of the area using a bounding polygon within the lateral limits of the surface. Overlay the area lateral limits with a grid established parallel and perpendicular to the extended runway centerline of the surface (see figure below). Establish the grid beginning at the runway end using the appropriate spacing until reaching the obstructing area. Within 10,200 feet of the runway threshold, use 200-foot grid spacing; outside 10,200 feet from the threshold, use a grid spacing of 500 feet. Analyze, identify and report the highest manmade or natural object penetrating the surface within each grid sector. Additionally, report the highest manmade or natural object within the area limits (see Figure 2-17). If two objects with the exact same MSL elevation are within a grid sector, choose the sector object by first selecting the object closer to the centerline, then if required, by the object closer to the runway.



NOTES:

- 1. THIS GRAPHIC EXPLAINS OR CLARIFIES CERTAIN DATA REQUIREMENTS.
- 2. SEE TEXT WHEN OBJECT CONGESTION OCCURS.
- 3. DIMENSIONS ARE IN FEET. DO NOT SCALE THIS DRAWING.

Reporting highest object(s) within ObstructionArea limits.

Monumentation	No monumentation required.					
Survey Doint Location	Horizontal	V	Vertical			
Survey Point Location	N/A		N/A			
Accuracy Requirement	s (in feet relative to the nearest	n feet relative to the nearest PACS, SACS, HRP or TSM)				
Runway	ys Supporting Vertically Guide	d Operations				
	Harizantal	Vertical				
	Horizontal	Orthometric	Ellipsoid	AGL		
Vertically Guided Runway	± 20	+ 3	± 3	± 10		
Primary Surface (VGRPS)	± 20	± 3	± 3	± 10		
Vertically Guided Primary	± 20	+ 3	± 3	± 10		
Connection Surface (VGPCS)	± 20	± 3	Ξ 3	± 10		

				T		
Vertically Guided Protection Surface (VGPS)	± 2	0	±.3	± 3	± 10	
Vertically Guided Approach Transition Surface (VGATS)	± 2	0	± 3	± 3	± 10	
Vertically Guided Approach Surface (VGAS)	± 2	0	± 10	± 3	± 10	
Vertically Guided Horizontal Surface (VGHS)	± 2	0	± 10	± 10	± 10	
Vertically Guided Conical Surface (VGCS)	± 2	0	± 10	± 10	± 10	
` '	Supporting Non-	Vertically Guid	ded Onerations			
Ranways	apporting 1 ton	_		ertical		
		Horizontal	Orthometric	Ellipsoid	AGL	
Non-vertically guided primary su	rface	± 20	± 3	± 3	± 3	
Non-vertically guided approach s		± 20	± 10	± 10	± 10	
Non-vertically guided transitional		± 20	± 10	± 10	± 10	
Non-vertically guided horizontal		± 50	± 20	± 20	± 10	
				Distance		
Resolution		Geographic	Coordinates	Elevat	tions	
		Hundredths	of arc second	Tenth of	a foot	
Feature Attributes						
Attribute (Datatype)			Description			
name (String 40)	Name of th	e feature.				
description (String 255)	Description	of the feature				
status (Enumeration: codeStatus)			the operational status of the feature. escribe real-time status.			
obstacleType	The type of	f object.				
(Enumeration: CodeObstacleType						
obstacleSource			e object was identified.			
aboveGroundLevel (Real)	The vertical object.	al distance from	n the ground to the highest point of the			
distanceFromDisplacedThreshold	Distance m	easured along r	unway centerline	or centerlin	e	
(Real)	extended fr	rom a Displaced	Threshold to pos	int abeam th	e object.	
	_		tes that the object			
			way approach en			
	_		rating the horizon	ital, conical	and	
	•	nsitional surface				
distanceFromRunwayCenterline			runway centerlin			
(Real)		•	" (LEFT) or "R"			
		ard in a landing a				
	not provided for objects penetrating the horizontal, o			izontal, coni	cal and	
distance France Programmer For 1 (P. 1)		runway transitional surfaces. Distance measured along runway centerline or centerline				
distanceFromRunwayEnd (Real)						
			l end to point abe			
	-		that the object is			
			ch end. This data izontal, conical a			
			izoniai, comeal a	na transition	iai	
	(HCT) surfaces.					

G 1 (G; : 75)	
groupCode (String 75)	A text code indicating that the object consists of a group of
	objects of the same type. For example, a group of trees, a group
	of buildings, a group of antennas, etc [Source: AIXM]
heightAboveAirport (Integer)	Height above airport the official airport elevation point
	[Source: NGS]
heightAboveRunway (Real)	Height above runway physical end for objects located
	underneath the approach surface.
heightAboveTouchdownZone	Height above touchdown zone elevation for objects located
(Real)	underneath the approach surface [Source: NGS]
lightCode (Boolean)	A code indicating that the obstacle is lighted [Source: AIXM]
markingFeatureType (Enumeration:	The type of the marking
codeMarkingFeatureType)	
penValSpecified (Integer)	The elevation difference between the height of the object and
	the specified surface. Used to identify the amount of
	penetration of the main OIS.
penValSupplemental (Integer)	The elevation difference between the height of the object and
	the supplemental surface. Used when to identify the amount of
	penetration to a secondary OIS.
obstructionNumber	An obstruction number, as shown on a map, which is assigned
(String 20)	to the waiver, deviation, etc.
obstructionAreaType	Type of obstructing area.
(Enumeration:	JI v
CodeObstructionAreaType)	7.0
disposition (String 16)	The disposition of the airspace obstruction.
oisSurfaceCondition	The Obstruction Identification Surface that Obstructing Area
(Enumeration:	represents
CodeOisSurfaceCondition)	
length (Real)	The overall length of the obstruction.
width (Real)	The overall width of the obstruction.
height (Real)	The overall height (measured at the highest point) of the
neight (Iteal)	obstruction from the surface of the earth.
frangible (Boolean)	A Boolean indicating whether the object is frangible.
faaCoordinationCode (Boolean)	A Boolean indicating whether the obstruction has received FAA
raacoordinationcode (Boolean)	coordination or review.
ellipsoidHeight (Real)	The height above the reference ellipsoid, measured along the
empsolarieight (Real)	ellipsoidal outer normal through the point in question.
narrative (String 240)	User defined
userFlag (String 254)	An operator-defined work area. This attribute can be used by
userriag (sumg 234)	•
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
Altamatica (Integral)	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.5.4. Obstruction Identification Surface

Definition: A derived imaginary surface defined by FAA [Source: NGS]		
Feature Group	Airspace	
Feature Class Name	ObstructionIdSurface	
Feature Type	Polygon	

CADD Standard Requiremen	ts				
Layer/Level			Descri	ption	
C-AIRS-OTHR	Othe	Other airspace surfaces			
C-AIRS-PART-PRIM		14 CFR Part 77 - Primary Surface			
C-AIRS-PART-HORZ	14 C	14 CFR Part 77 - Horizontal Surface			
C-AIRS-PART-CONL	14 C	14 CFR Part 77 - Conical Surface			
C-AIRS-PART-TRNS	14 C	14 CFR Part 77 - Transitional Surfaces			
C-AIRS-PART-APRC	14 C	14 CFR Part 77 - Approach Surfaces			
C-AIRS-AAAS-PRIM	Airp	ort Airspace	e Analysis Survey - 1	Primary Surfaces	
C-AIRS-AAAS-HORZ			e Analysis Survey - 1		e
C-AIRS-AAAS-CONL			e Analysis Survey - (
C-AIRS-AAAS-TRNS			e Analysis Survey - '		ices
C-AIRS-AAAS-APRC			e Analysis Survey - A		
C-AIRS-AAAS-VERT		ort Airspac	ce Analysis Survey		
C-AIRS-TERP		PS Surfaces	S		
C-AIRS-TERP-DEPT		rture Analy		- O 1	
C-AIRS-OEIA	_	•	perative Analysis		
C THIS OBIT		Color	Linetype	Line Weight	Symbol
AutoDesk Standards		l (all)		1 MM (all)	
MicroStation Standards) (all)	Continuous (all)	7 (all)	User Defined
Sensitivity		ricted		, ()	
	AIX		ObstructionAssessi	nentArea	Core
Equivalent Standards	FGD		ObstructionIdentifi		0010
	SDSFIE airfield_imaginary_surface_area				
Documentation and			100		
Submission Requirements	No documentation is required for this feature.				
Related Features		17			
Data Capture Rules: Identify	the ob	struction id	lentification surface	(OIS) required by	the utilization
type for the runway. Depict the					
Monumentation			ion required.		
S D: 41 4:			izontal	Ver	tical
Survey Point Location		1	N/A	N	/A
A D : (4.0)		TT	!4-1	Ver	tical
Accuracy Requirements (in		ног	izontal	Orthometric	Ellipsoidal
feet)		1	N/A	N/A	N/A
Decolution	(Geographi	c Coordinates	Distances ar	nd Elevations
Resolution		1	N/A	N	7/A
Feature Attributes					
Attribute (Datatype)			Des	cription	
name (VARCHAR2 (50))	A commonly used name for the zone.				
description (VARCHAR2 255)		Description	on of the feature		
status (Enumeration: codeStatu					
		This attrib	oute is used to descri	be real-time status	s.
oisSurfaceType		Surface T	ype refers to the gen	eral type of surface	ce used to
(Enumeration:			eatures. Surfaces of		
CodeOisSurfaceType)	in nature with respect to certain aspects of the surface definition				
	or may merely be representative of different programs within				
		the airpor	t charting community	٧.	

oisZoneType	Specifies zones within Obstruction Identification Surfaces (OIS)
(Enumeration: CodeOisZoneType)	
oisSurfaceCondition	The Obstruction Identification Surface that Obstructing Area
(Enumeration:	represents
CodeOisSurfaceCondition)	
safetyRegulation (String 20)	An identifier for the safety regulations in effect within the zone.
zoneUse (String 50)	A description of the use of the zone.
approachGuidance	Defines the type of approach guidances the OIS is meant to
(Enumeration:	protect.
CodeApproachGuidance)	
slope (Real)	The low to high gradient within the airspace expressed as a ratio
	x:1, where X is the slope value. For example 40:1 for
	departures.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.5.5. Runway Protect Area

Definition: An area beyond the takeoff runway under control of airport authorities within which terrain or fixed obstacles may not extend above specified limits. These areas may be required for certain turbine-powered operations, and the size and upward slope of the clearway will differ depending on when the aircraft was certificated.

Feature Group	Airspace					
Feature Class Name	RunwayProtectArea					
Feature Type	Polygon					
CADD Standard Requiremen	CADD Standard Requirements					
Layer/Level		Descr	iption			
C-RUNW-CLRW	Runway Clearwa	ıy				
	Color	Linetype	Line Weight	Symbol		
AutoDesk Standards	4	Continuous	1			
MicroStation Standards	7	Continuous	3			
Sensitivity	Restricted					
	AIXM	RunwayProtectA	reaExtension	Extension		
Equivalent Standards	FGDC RunwayProtectArea Extension			Extension		
	SDSFIE None					
Documentation and	No documentation is required for this feature.					
Submission Requirements	No documentation is required for this feature.					
Related Features						
Data Capture Rules: N/A	Data Capture Rules: N/A					
Monumentation	No monumentation required.					
Survey Point Location	Horizontal Vertical			tical		
Survey I omt Location	N/A N/A			'A		
Acquiron Poquiromanta (in	Нот	zontal	Ver	tical		
Accuracy Requirements (in feet)	Horn	zuntan	Orthometric	Ellipsoidal		
	N	/A	N/A	N/A		

Resolution	Geographic Coordinates	Distances and Elevations		
Resolution	Hundredth of arc second	Tenth of foot		
Feature Attributes				
Attribute (Datatype)	De	escription		
name (VARCHAR2 (50))	The name of the feature.			
description (VARCHAR2(255))	Description of the feature			
status (Enumeration: codeStatus	A temporal description of the	e operational status of the feature.		
	This attribute is used to descri	ribe real-time status.		
length (Integer)		The length of clearway as reported by the FAA Airport/Facility		
	Directory and the Aeronautic	Directory and the Aeronautical Information Publication (AIP)		
	for international airports			
userFlag (String 254)	_	An operator-defined work area. This attribute can be used by		
		the operator for user-defined system processes. It does not		
	· ·	integrity and should not be used to		
	store the subject item's data.			
type (Enumeration:	Code indicating the type of r	unway protection area being		
CodeRunwayProtectionAreaTy	pe) classified.			
Alternative (Integer2)	Discriminator used to tie feat	tures of a plan or poroposal		
	together into a version.			

5.6. Group: CADASTRAL

5.6.1. Airport Boundary

5.0.1. Airport boundary					
Definition: A polygon, or a set				rty owned or cont	rolled by the
airport for aviation purposes. [S			0.6A, Section 5]		
Feature Group		Cadastral			
Feature Class Name		AirportBoundary			
Feature Type	Polygo	on			
CADD Standard Requiremen	its –		D		44
Layer/Level C-PROP-PROP-	Α :		Descri	ipuon	
C-PROP-PROP-	_	rt property Color	Lingtyng	I ing Waight	Symbol
AutoDesk Standards	•	2	Linetype	Line Weight	Symbol
MicroStation Standards		4	Continuous	3	-))
Sensitivity	Restric			3	
Sensitivity	AIXN		AirportHeliport		Core
Equivalent Standards	FGD(AirportBoundary		Cole
Equivalent Standards	SDSF		Airfield_area		
Documentation and		112	Airjieiu_area		
Submission Requirements	None				
Related Features					
Data Capture Rules: Airport	t nroner	ty informat	ion is usually obtai	inable from the co	unty or local
government.	ргорег	iy ingorman	ion is disticutly obtain	madic from the co	uniy or tocat
Monumentation	No mo	onumentation	on required.		
	- 10 - 11	Horiz		Ver	tical
Survey Point Location	N/A N/A				
J		N/	A/A	N	I/A
•					/A rtical
Accuracy Requirements (in		N/ Horiz			
•			contal	Ver Orthometric ± 5 ft	tical Ellipsoidal N/A
Accuracy Requirements (in feet)	G	Horiz	contal	Ver Orthometric ± 5 ft	tical Ellipsoidal
Accuracy Requirements (in feet) Resolution		Horiz ± 3 eographic	z ontal 3 ft	Ver Orthometric ± 5 ft Distances ar	tical Ellipsoidal N/A
Accuracy Requirements (in feet) Resolution Feature Attributes		Horiz ± 3 eographic	contal If t Coordinates If are second	Ver Orthometric ± 5 ft Distances ar Tenth	tical Ellipsoidal N/A nd Elevations
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype)		Horiz ± 3 eographic lundredth o	contal 3 ft Coordinates of arc second	Ver Orthometric ± 5 ft Distances ar	tical Ellipsoidal N/A nd Elevations
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	H	Horiz ± 3 eographic Iundredth o	contal S ft Coordinates of arc second Do of the airfield.	Ver Orthometric ± 5 ft Distances ar Tenth	tical Ellipsoidal N/A nd Elevations
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)	(i))	Horiz ± 3 eographic Iundredth of The name Description	contal 3 ft Coordinates of arc second of the airfield. on of the feature	Ver Orthometric ± 5 ft Distances ar Tenth escription	rtical Ellipsoidal N/A nd Elevations of foot
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	(i))	Horiz ± 3 eographic lundredth of The name Description A tempora	contal 3 ft Coordinates of arc second Do of the airfield. on of the feature al description of th	Ver Orthometric ± 5 ft Distances ar Tenth escription	Ellipsoidal N/A nd Elevations of foot as of the feature.
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib	Contal B ft Coordinates of arc second Do of the airfield. on of the feature al description of the oute is used to description.	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time stat	Ellipsoidal N/A nd Elevations of foot as of the feature. us.
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib	Contal B ft Coordinates of arc second Do of the airfield. On of the feature al description of the oute is used to description description of the	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suff	Ellipsoidal N/A nd Elevations of foot as of the feature. us. fix. The number
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned	Exontal B ft Coordinates of arc second To of the airfield. On of the feature al description of the pute is used to description do the airport in a door of the airport in	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suffascending order, description	Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and the	Exontal B ft Coordinates of arc second Do of the airfield. on of the feature al description of the oute is used to description to the description of the airfield to the airfield. The airfield to description of the oute is used to description at the associated city.	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suffascending order, de If you do not known as the status of t	rtical Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the low or have
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and to access to a	Econtal B ft Coordinates of arc second Do of the airfield. on of the feature al description of the oute is used to description that contain d to the airport in a the associated city, the appropriate site	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suffuscending order, definition of the common of the contact y	Ellipsoidal N/A nd Elevations of foot as of the feature. us. fix. The number epending on the ow or have your airports
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and to access to district/re	Econtal B ft Coordinates of arc second Do of the airfield. On of the feature al description of the oute is used to description that contain d to the airport in a the associated city. the appropriate site gion airports office	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suff ascending order, definition of the number contact year or state aviation as	Ellipsoidal N/A nd Elevations of foot as of the feature. us. fix. The number epending on the ow or have your airports
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) faaSiteNumber (String 8)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and the access to district/regularsistance	Do the airfield. On of the feature al description of the airport in a the associated city. the appropriate site gion airports office a. [Source: FAA A	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suff ascending order, definition of the number contact year or state aviation at C 150/5200-35]	Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the ow or have your airports authorities for
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) faaSiteNumber (String 8)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and to access to district/re assistance The location	Exontal B ft Coordinates of arc second To of the airfield. On of the feature al description of the oute is used to descripte that contain d to the airport in a the associated city. The appropriate site gion airports office e. [Source: FAA A dion identifier assign	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status as one-letter suff ascending order, definition to the number contact ye or state aviation at C 150/5200-35] and to the feature	rtical Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the low or have your airports authorities for
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) faaSiteNumber (String 8)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and to access to district/re, assistance The location	Do the airfield. In the airport in a the associated city. the appropriate site gion airports office. [Source: FAA A ton identifier assignment of the assignment of the associated city. The appropriate site gion airports office and the airport in a the associated city. The appropriate site gion airports office and the airport in a the associated city. The appropriate site gion airports office and the airport in a the appropriate site gion airports office and the airport in a the	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suff ascending order, de number contact ye or state aviation a C 150/5200-35] med to the feature and to the feature and to the feature and the contact of the feature and the contact of the contact of the contact of the contact of the c	rtical Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the low or have your airports authorities for
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus faaSiteNumber (String 8) faaLocationId (String 4) iataCode (String 4)	(i))	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and to access to district/reconstructory assistance The location Air Trans	Do the airfield. In the associated city. the appropriate site gion airports office. [Source: FAA A ton identifier assignment of the association (I association (I association (I association)	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suff ascending order, de number contact ye or state aviation a C 150/5200-35] med to the feature med to the feature ATA)	rtical Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the ow or have your airports authorities for by FAA by International
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus faaSiteNumber (String 8) faaLocationId (String 4) iataCode (String 4) icaoCode (String 4)	(i)) (is)	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and the access to district/regassistance The location The location The location The location	Do the airfield. On of the airfield. On of the feature al description of the airport in a the associated city. the appropriate site gion airports office. [Source: FAA A ion identifier assignment association (I ion identifier assignment association (I ion identifier assignment assignment association (I ion identifier assignment assignment association (I ion identifier assignment assi	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suff ascending order, de number contact ye or state aviation a C 150/5200-35] med to the feature med to the feature ATA)	rtical Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the ow or have your airports authorities for by FAA by International
Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus faaSiteNumber (String 8) faaLocationId (String 4) iataCode (String 4)	(i)) (is)	Horiz ± 3 eographic Iundredth of The name Description A tempora This attrib This is a r is assigned state and to access to district/reconstructory assistance The location Air Trans	Do the airfield. On of the airfield. On of the feature al description of the airport in a the associated city. the appropriate site gion airports office. [Source: FAA A ion identifier assignment association (I ion identifier assignment association (I ion identifier assignment assignment association (I ion identifier assignment assignment association (I ion identifier assignment assi	Ver Orthometric ± 5 ft Distances ar Tenth escription e operational staturibe real-time status a one-letter suff ascending order, de number contact ye or state aviation a C 150/5200-35] med to the feature med to the feature ATA)	rtical Ellipsoidal N/A nd Elevations of foot as of the feature. us. Fix. The number epending on the ow or have your airports authorities for by FAA by International

operationsType	The type of operations permitted on the airfield
(Enumeration: CodeOperationsType)	
owner	The type of owner of the airfield
(Enumeration: CodeOwner)	
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.6.2. Airport Parcel

5.6.2. Airport Parcel					
Definition: A tract of land with					
local funds, etc. Include easem	ent interests in ar	eas outside the fee	e property line as a	an airport parcel.	
[Source FAA Order 5190.6, Ch					
Feature Group	Cadastral				
Feature Class Name	AirportParcel				
Feature Type	Polygon				
CADD Standard Requiremen	its				
Layer/Level		Descr	ription		
V-PROP-AIRF-LINE-	Property lines (E	xisting recorded p	lats)		
V-PROP-QTRS-	Quarter lines				
V-PROP-SECT-	Section lines	. 20			
V-PROP-SXTS-	Sixteenth lines (2	40 lines)			
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	4	Continuous	1	User Defined	
MicroStation Standards	7	Continuous	3	User Defined	
Sensitivity	Restricted				
	AIXM	AirportParcel		Extension	
Equivalent Standards	FGDC	AirportParcel		Extension	
	SDSFIE	None			
Documentation and					
Submission Requirements	None				
Related Features					
Data Capture Rules: Collect and reduce in accordance with state/local requirements.					
Monumentation No monumentation required.					
Currey Daint Leastion	Horiz	zontal	Vert	tical	
Survey Point Location	N	/A	N/	'A	
	II a mile	zontal	Vert	tical	
Accuracy Requirements (in	Horiz	zontai	Orthometric	Ellipsoidal	
feet)	As required	by state/local	NI/A	N/A	
	require	ements.	N/A	N/A	
Resolution	Geographic Coordinates Distances and Elevations		d Elevations		
Resolution	Hundredth of arc second Nearest tenth of a foot			th of a foot	
Feature Attributes					
Attribute (Datatype)		De	escription		
name (VARCHAR2 (50))	Name of the feature.				
description (String 255)	Description of the feature				

status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
authority (String 75)	The owner of the airport parcel
acquisitionType (String 20)	The type of acquisition used to acquire the parcel
costToAcquire (Real)	The amount paid to the owner in U.S. dollars for the parcel
dateAcquired (Date)	The date the parcel was acquired. Format for date is YYYYMMDD (i.e. September 15, 1994 = 19940915).
grantProjectNumber (String 30)	The grant number if Federal funds were used to acquire the parcel
howAcquired (String 50)	The manner in which the parcel was acquired
marketValue (Real)	The assessed market value of the parcel in U.S. dollars when it
	was acquired
yearAssessed (Number 4)	The year in which the market value assessment was made
yearBuilt (Number 4)	The year in which the most recent structure(s) were built on the parcel
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.6.3. County

5.6.3. County						
Definition: Boundary line of	the land and water	er under the right,	power, or authori	ty of the county		
government.	· · · · · · · · · · · · · · · · · · ·					
Feature Group	Cadastral					
Feature Class Name	County					
Feature Type	Polygon					
CADD Standard Requiremen	ts					
Layer/Level		Descri	ption			
V-PROP-CNTY-	County Boundar	y				
	Color	Line type	Line Weight	Symbol		
AutoDesk Standards	2	DASHED_SPA	1 MM	User Defined		
MicroStation Standards	4	CED	7	User Defined		
Sensitivity	Sensitivity Restricted					
	AIXM GovernmentalUnit Extension FGDC GovernmentalUnit Extension					
Equivalent Standards						
	SDSFIE political_jurisdiction_county_line					
Documentation and Submission Requirements	None					
Related Features						
Data Capture Rules: County	boundary informat	tion is usually obta	inable from the co	unty engineer,		
surveyor or auditor's office.						
Monumentation						
Common Daint I agation	Horizontal Vertical			tical		
Survey Point Location	N/A N/A					
A course of Deguinements (in	II audi	zontal	Ver	tical		
Accuracy Requirements (in	Horn	ZUIILÄI	Orthometric	Ellipsoidal		
feet)	As provided.		N/A	N/A		

Resolution	Geographic Coordinates	Distances and Elevations		
Resolution	Five hundredth of arc second	Nearest foot		
Feature Attributes				
Attribute (Datatype)	Des	scription		
name (VARCHAR2 (50))	Name of the feature.			
description (VARCHAR2 (255)	The description of the area.			
status (Enumeration: codeStatus	A temporal description of the	operational status of the feature.		
	This attribute is used to descr	ibe real-time status.		
politicalName (String 30)	The common name associated	d with the property area.		
userFlag (String 254)	An operator-defined work are	An operator-defined work area. This attribute can be used by		
	the operator for user-defined	the operator for user-defined system processes. It does not		
	affect the subject item's data i	integrity and should not be used to		
	store the subject item's data.			
Alternative (Integer2)	Discriminator used to tie feat	Discriminator used to tie features of a plan or poroposal		
	together into a version.			

5.6.4. Easements And Righ	ts of Ways		0.		
Definition: A parcel of land for	or which formal or	informal deed ease	ement rights exist	[Source: SDSFIE	
(modified)]					
Feature Group	Cadastral				
Feature Class Name	EasementsAndR	ightsofWay	*		
Feature Type	Polygon		·		
CADD Standard Requireme	nts	. 20			
Layer/Level	Description				
C-PROP-ESMT-	Easements				
C-PROP-RWAY-	Right of ways				
V-PROP-ESMT-	Government ease	ements/property line	es		
V-PROP-RWAY-	Right of ways				
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	3	Continuous	1 MM	User Defined	
MicroStation Standards	2	Continuous	7	User Defined	
Layer/Level	Description				
	Right of ways				
V-PROP-RWAY-		Right o	f ways		
	Color	Right o Linetype	f ways Line Weight	Symbol	
	6	Linetype		· ·	
V-PROP-RWAY-			Line Weight	Symbol User Defined	
V-PROP-RWAY- AutoDesk Standards	6	Linetype	Line Weight 1 MM		
V-PROP-RWAY- AutoDesk Standards MicroStation Standards	6 5	Linetype	Line Weight 1 MM 7	· ·	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards	6 5 Confidential	Linetype Continuous	Line Weight 1 MM 7 ghtsofWay	- User Defined	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity	6 5 Confidential AIXM	Linetype Continuous EasementsAndRi	Line Weight 1 MM 7 ghtsofWay ghtsofWay	User Defined Extension	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity	6 5 Confidential AIXM FGDC SDSFIE	Linetype Continuous EasementsAndRi EasementsAndRi	Line Weight 1 MM 7 ghtsofWay ghtsofWay	User Defined Extension	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity Equivalent Standards	6 5 Confidential AIXM FGDC	Linetype Continuous EasementsAndRi EasementsAndRi	Line Weight 1 MM 7 ghtsofWay ghtsofWay	User Defined Extension	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity Equivalent Standards Documentation and	6 5 Confidential AIXM FGDC SDSFIE	Linetype Continuous EasementsAndRi EasementsAndRi	Line Weight 1 MM 7 ghtsofWay ghtsofWay	User Defined Extension	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity Equivalent Standards Documentation and Submission Requirements	6 5 Confidential AIXM FGDC SDSFIE None	Linetype Continuous EasementsAndRi EasementsAndRi easement_right_	Line Weight 1 MM 7 ghtsofWay ghtsofWay of_way_area	User Defined Extension Extension	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity Equivalent Standards Documentation and Submission Requirements Related Features	6 5 Confidential AIXM FGDC SDSFIE None ent and right of ware corder office.	Linetype Continuous EasementsAndRi EasementsAndRi easement_right_ y information is usi	Line Weight 1 MM 7 ghtsofWay ghtsofWay of_way_area	User Defined Extension Extension	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity Equivalent Standards Documentation and Submission Requirements Related Features Data Capture Rules: Easement	6 5 Confidential AIXM FGDC SDSFIE None	Linetype Continuous EasementsAndRi EasementsAndRi easement_right_ y information is usi	Line Weight 1 MM 7 ghtsofWay ghtsofWay of_way_area	User Defined Extension Extension	
V-PROP-RWAY- AutoDesk Standards MicroStation Standards Sensitivity Equivalent Standards Documentation and Submission Requirements Related Features Data Capture Rules: Easement engineer, surveyor, audit or reserve	6 5 Confidential AIXM FGDC SDSFIE None ent and right of war ecorder office. No monumentati	Linetype Continuous EasementsAndRi EasementsAndRi easement_right_ y information is usi	Line Weight 1 MM 7 ghtsofWay ghtsofWay of_way_area ually obtainable fr	User Defined Extension Extension	

A course or De cuivements (in		Horizontal	Ver	tical	
Accuracy Requirements (in feet)		Horizontai	Orthometric		
ieet)		As provided.	N/A	N/A	
Resolution	G	eographic Coordinates	Distances an	d Elevations	
Resolution	Five	hundredths of arc second	Neare	st foot	
Feature Attributes					
Attribute (Datatype)		De	escription		
name (VARCHAR2 (50)) Name of the feature.					
description (VARCHAR2 (255	5))	A brief description of the feature.			
status (Enumeration: codeStatu	ıs)	The status of the parcel. (Ac	ctive, inactive, term	ninated)	
purpose (String 30)		Project purpose for which the	ne easement was ac	equired.	
userFlag (String 254)		An operator-defined work a	rea. This attribute	can be used by	
		the operator for user-defined system processes. It does not			
		affect the subject item's data integrity and should not be used to			
store the subject item's data.					
Alternative (Integer2)		Discriminator used to tie features of a plan or poroposal			
		together into a version.			

5.6.5. FAA Region Area

Definition: This feature depicts the FAA regions. Feature Group Cadastra FAARegionArea FAARegionArea FAARegionArea FAARegion FAARegion FAARegion FAARegion TAAREgion TAAREgi	5.6.5. FAA Region Area					
Feature Class Name FAARegionArea Feature Type Polygon Fabruar Type Fab	Definition: This feature depict	ts the FA	AA regions.			
Polygon		Cadas	tral			
CADD Standard Requirements Layer/Level Description C-AIRF-FAAR- FAA Region AutoDesk Standards 1 Continuous 1 MM Symbol MicroStation Standards 3 Continuous 7 User Defined Sensitivity Unclassified Equivalent Standards 4IXM FaaRegionArea Extension FGDC FaaRegionArea Extension FGDC FaaRegionArea Extension SDSFIE faa_region_area Documentation and Submission Requirements Related Features Data Capture Rules: Collect this information from official FAA sources. Monumentation No monumentation required. Vertical N/A N/A Accuracy Requirements (in feet) As provided. N/A N/A As provided. N/A N/A N/A Accuracy Requirements (in feet) Geographic Coordinates Distances and Elevations Five hundredth of arc second Nearest foot	Feature Class Name	FAAR	RegionArea			
C-AIRF-FAAR-	Feature Type	Polygo	on			
CAIRF-FAAR- FAA Region AutoDesk Standards MicroStation Standards 1 Continuous 1 MM User Defined Sensitivity Unclassified AIXM FaaRegionArea Extension Equivalent Standards AIXM FaaRegionArea Extension FGDC FaaRegionArea Extension SDSFIE faa_region_area Submission Requirements Related Features None Data Capture Rules: Collect this information from official FAA sources. Monumentation No monumentation required. Horizontal Vertical N/A N/A Accuracy Requirements (in feet) Horizontal Vertical As provided. N/A N/A Resolution Geographic Coordinates Distances and Elevations Five hundredth of arc second Nearest foot Feature Attributes Attribute (Datatype) Description	CADD Standard Requireme	nts				
	Layer/Level			Descri	ption	
AutoDesk Standards1 MicroStation StandardsContinuous1 MM 7User DefinedSensitivityUnclassifiedEquivalent StandardsAIXMFaaRegionArea FGDCExtensionDocumentation and Submission RequirementsNoneRelated FeaturesNoneData Capture Rules: Collect this information from official FAA sources.MonumentationNo monumentation required.Survey Point LocationHorizontalVerticalN/AN/AAccuracy Requirements (in feet)As provided.N/AN/AResolutionGeographic CoordinatesDistances and ElevationsFive hundredth of arc secondNearest footFeature AttributesAttribute (Datatype)Description	C-AIRF-FAAR-	FAA I	Region			
MicroStation Standards 3 Continuous 7 User Defined Sensitivity Unclassified Extension Equivalent Standards AIXM FaaRegionArea Extension FGDC FaaRegionArea Extension SDSFIE faa_region_area None Mosumentation Requirements Monumentation No monumentation required. Survey Point Location Horizontal Vertical N/A Accuracy Requirements (in feet) As provided. N/A N/A Resolution Geographic Coordinates Distances and Elevations Five hundredth of arc second Nearest foot		(Color	Linetype	Line Weight	Symbol
MicroStation Standards 3 7			1	Continuous	1 MM	Usar Dafinad
AIXM FaaRegionArea Extension	MicroStation Standards		3	Continuous	7	User Defined
FGDC FaaRegionArea Extension	Sensitivity	Unclas	ssified			
Documentation and Submission Requirements None		AIXM	1	FaaRegionArea		Extension
None	Equivalent Standards	FGDC		FaaRegionArea	Extension	
None None		SDSF	IE	faa_region_area		
Submission Requirements	Documentation and	None				
Data Capture Rules: Collect this information from official FAA sources.MonumentationNo monumentation required.Burvey Point LocationHorizontalVerticalN/AN/AAccuracy Requirements (in feet)HorizontalOrthometricEllipsoidalAs provided.N/AN/AResolutionGeographic CoordinatesDistances and ElevationsFive hundredth of arc secondNearest footFeature AttributesAttribute (Datatype)Description	Submission Requirements	None				
	Related Features					
	Data Capture Rules: Collect	this infe	ormation fro	om official FAA soi	urces.	
	Monumentation	No mo	onumentatio	n required.		
	Survey Point Location		Horiz	ontal	Ver	tical
Accuracy Requirements (in feet) As provided. As provided. As provided. N/A N/A N/A Resolution Five hundredth of arc second Nearest foot Feature Attributes Attribute (Datatype) Description	Survey I omit Location		N/	A	N.	/A
As provided. N/A N/A	Aggurgay Paguiraments (in		Horiz	ontol	Ver	tical
Resolution As provided. Resolution Geographic Coordinates Five hundredth of arc second Five hundredth of arc second Nearest foot Feature Attributes Attribute (Datatype) Description			Orth		Orthometric	
Five hundredth of arc second Nearest foot Feature Attributes Attribute (Datatype) Description	leet)		As pro	vided.	N/A	N/A
Five hundredth of arc second Nearest foot Feature Attributes Attribute (Datatype) Description	Posolution	G	eographic (Coordinates	Distances an	d Elevations
Attribute (Datatype) Description	Kesolution	Fiv	e hundredth	of arc second	Neare	st foot
	Feature Attributes					
Nome of the EAA region	Attribute (Datatype)			Des	scription	
name (VARCHAR2 (50)) Name of the FAA region.	name (VARCHAR2 (50))		Name of th	e FAA region.		
description (VARCHAR2 (255)) Description of the FAA region.	description (VARCHAR2 (255	5))	Description	n of the FAA regio	n.	

status (Enumeration: codeStatus)	A temporal description of the operational status of the feature. This attribute is used to describe real-time status.
userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.6.6. Land Use

T		0.1			
Definition: A description of the			d and water.		
Feature Group	Cadasti				
Feature Class Name	LandU				
Feature Type	Polygo	n			
CADD Standard Requireme	nts				
Layer/Level			Descri	ption	
V-PROP-LUSE-	Land U	Jse Area		\mathcal{O}_{\bullet}	
	C	olor	Linetype	Line Weight	Symbol
AutoDesk Standards		5		1 MM	User Defined
MicroStation Standards		1	Continuous	7	User Defined
Sensitivity	Confid	ential			
-	AIXM		LandUse		Extension
Equivalent Standards	FGDC		LandUse		Extension
	SDSFI	E	land_use_area		
Documentation and	NT				
Submission Requirements	None				
Related Features					
Data Capture Rules: Collect	the land	l use inform	nation from state/co	ounty/local zoning	or other
appropriate office.			· ·	, 0	
Monumentation	No mo	numentatio	on required.		
G P: 41		Horiz		Ver	tical
Survey Point Location		N/	'A	N.	/A
			4.1	Ver	tical
Accuracy Requirements (in		Horiz	ontal	Orthometric	Ellipsoidal
feet)		As pro	vided.	N/A	N/A
	Ge		Coordinates	Distances an	d Elevations
Resolution			s of arc second		st foot
Feature Attributes	I				
Attribute (Datatype)			De	escription	
name (VARCHAR2 (50))		Name of	the land use area.		
description (VARCHAR2 (253	5))		on of the land use a	rea.	
status (Enumeration: codeStatu			al description of th		s of the feature.
Status (Enameration: codestate	,				
Trung (Empres anotic an		This attribute is used to describe real-time status. The way in which the land is being used.			
use I vbe (Enumeration:		THE wav	m which the land is		
useType (Enumeration: CodeLandUseType)		The way	in which the land is	g semg usea.	
CodeLandUseType)					can be used by
		An operat	tor-defined work ar	rea. This attribute	
CodeLandUseType)		An operat	tor-defined work artor for user-defined	rea. This attribute	. It does not
CodeLandUseType)		An operate the operate affect the	tor-defined work ar	rea. This attribute I system processes integrity and shou	. It does not

Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.6.7. Lease Zone

Definitions A newsel of land la	and br	. on individ	101 0000011 00 0000	mization for thair	100	
Definition: A parcel of land le			iai, agency, or orga	illization for their t	ise.	
Feature Group	Cadas					
Feature Class Name	Lease					
Feature Type	Polyg	on				
CADD Standard Requireme	nts					
Layer/Level			Descri	ption		
V-PROP-LEAS-		line (surve	<i>'</i>			
A-PROP-LEAS-		line (interio				
C-PROP-LEAS-	Lease	line (exteri	or / ground lease)			
	(Color	Linetype	Line Weight	Symbol	
AutoDesk Standards		1	Continuous	1 MM	User Defined	
MicroStation Standards		3	Continuous	7	User Defined	
Sensitivity	Uncla	ssified				
	AIXN	1	LeaseZone		Extension	
Equivalent Standards	FGD	C	LeaseZone		Extension	
	SDSF	TE	lease_zone_area			
Documentation and	NT					
Submission Requirements	None					
Related Features			. 70			
Data Capture Rules: Leasing	g inforn	nation is usi	ually obtainable fro	m the airport.		
Monumentation		onumentatio	A 100 TOTAL	•		
G D: 41			zontal	Ver	tical	
Survey Point Location			/A		/A	
			Vertical			
Accuracy Requirements (in	Horizontal		Orthometric	Ellipsoidal		
feet)	As provided.			N/A	N/A	
			Coordinates	Distances and Elevations		
Resolution			s of arc second		st foot	
Feature Attributes	111	· Hallareath	is of the second	ricare	51 1001	
Attribute (Datatype)			Dec	scription		
name (VARCHAR2 (50))		Name of the feature.				
description (VARCHAR2 (255)	2))		scription of the feat	ture		
tenantName (String 75)	7))		nt name of the tenar		eased narcel	
permitUse (String 20)					asca parcer.	
	Permitted use of the leased parcel.					
leasedArea (Real)		Area acco	unted for in the leas	se for a parcel.		
leasedArea (Real) actualArea (Real)		Area accor Actual me	unted for in the least asured area of the l	se for a parcel. eased parcel.	t for date is	
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate		Area accor Actual me The date the	unted for in the least asured area of the least is expected	se for a parcel. eased parcel. I to expire. Forma		
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate (Date)		Area accordant Actual me The date the YYYYMM	unted for in the least asured area of the lease is expected MDD (i.e. Septemb	se for a parcel. eased parcel. I to expire. Forma er 15, 1994 = 1994	10915).	
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate		Area accordance Actual me The date the YYYYMM The compa	unted for in the least asured area of the least is expected	se for a parcel. eased parcel. I to expire. Forma er 15, 1994 = 1994	10915).	
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate (Date) legalDescription (String 240)	16)	Area accor Actual me The date the YYYYMM The composite deed.	unted for in the least asured area of the last he lease is expected MDD (i.e. Septemble lete legal description	se for a parcel. eased parcel. I to expire. Forma er 15, 1994 = 1994 on of the property a	40915). as it appears in	
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate (Date) legalDescription (String 240) status (Enumeration: codeStatus	ıs)	Area accor Actual me The date the YYYYMM The composite deed. The status	asured for in the least asured area of the lease is expected MDD (i.e. Septemblete legal description of the parcel. (Activities)	se for a parcel. eased parcel. I to expire. Forma er 15, 1994 = 1994 on of the property a	as it appears in nated)	
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate (Date) legalDescription (String 240)	18)	Area accordance Actual me The date the YYYYMM The complete deed. The status An operator	unted for in the least asured area of the last lease is expected MDD (i.e. Septemblete legal description of the parcel. (Action-defined work area.)	se for a parcel. eased parcel. I to expire. Forma er 15, 1994 = 1994 on of the property a ive, inactive, termi	as it appears in nated)	
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate (Date) legalDescription (String 240) status (Enumeration: codeStatus	ıs)	Area accordance Actual me The date the YYYYMM The compute deed. The status An operate the operate	unted for in the least asured area of the last lease is expected MDD (i.e. Septemblete legal description of the parcel. (Action-defined work are for for user-defined	se for a parcel. eased parcel. I to expire. Forma er 15, 1994 = 1994 on of the property a ive, inactive, termi ea. This attribute of system processes.	as it appears in mated) can be used by It does not	
leasedArea (Real) actualArea (Real) expectedLeaseExpirationDate (Date) legalDescription (String 240) status (Enumeration: codeStatus	ıs)	Area accordance Actual me The date the YYYYMM The composite deed. The status An operate the operate affect the status	unted for in the least asured area of the last lease is expected MDD (i.e. Septemblete legal description of the parcel. (Action-defined work area.)	se for a parcel. eased parcel. I to expire. Forma er 15, 1994 = 1994 on of the property a ive, inactive, termi ea. This attribute of system processes.	as it appears in mated) can be used by It does not	

Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.6.8. Municipality

5.6.8. Municipality					
Definition: Boundary line of	the land and wa	ater under the right, po	ower, or authority	of the municipal	
government.					
Feature Group	Cadastral				
Feature Class Name	Municipality				
Feature Type	Polygon				
CADD Standard Requireme	nts				
Layer/Level		Descri	ption		
V-PROP-MUNI-	Municipal Box	undary			
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	1	Continuous	1 MM	User Defined	
MicroStation Standards	3	Continuous	7	User Defined	
Sensitivity	Restricted				
	AIXM	GovernmentalUr	nit 💮	Extension	
Equivalent Standards	FGDC	GovernmentalUr	nit	Extension	
	SDSFIE	political_jurisdic	ction_municipal_li	ne	
Documentation and	None				
Submission Requirements	None		*		
Related Features					
Data Capture Rules: Munici	pality boundary	limits are usually obt	ainable from coun	ty or local	
government offices.					
Monumentation	No monument	tation required.			
Survey Point Location	Н	orizontal	Ver	tical	
Survey I omit Education		N/A	N.	/A	
Accuracy Requirements (in	ш	orizontal	Ver	tical	
feet)	110	or izontai	Orthometric	Ellipsoidal	
ieet)	As	As provided.		N/A	
Resolution	Geograpl	hic Coordinates	Distances an	d Elevations	
♦ 4	Five hundre	edth of arc second	Neare	st foot	
Feature Attributes					
Attribute (Datatype)) Y	De	escription		
name (VARCHAR2 (50))		ommon name associate	ed with the propert	y area.	
description (VARCHAR2 (25)		escription of the area.			
status (Enumeration: codeState		poral description of th			
	This a	ttribute is used to desc	ribe real-time stat	us.	
userFlag (String 254)	_	erator-defined work a			
		erator for user-defined			
		the subject item's data		ıld not be used to	
		the subject item's data.			
1 A 1	Discriminator used to tie features of a plan or poroposal				
Alternative (Integer2)		ner into a version.	itures of a plan of j	poroposar	

5.6.9. Parcel

Definition: A single cadastral unit, which is the spatial extent of the past, present, and future rights and						
interests in real property and the geographic framework to support the description of the spatial extent.						
Feature Group	Cadastral					

Feature Class Name	Parce	1				
Feature Type	Polyg					
CADD Standard Requirement		, -				
Layer/Level			Descri	iption		
V-PROP-LINE-	Prope	erty lines (Ex	xisting recorded pla			
		Color	Linetype	Line Weight	Symbol	
AutoDesk Standards		4		1 MM	•	
MicroStation Standards		7	Continuous	7	User Defined	
Sensitivity	Restr	icted		-		
v	AIXN		GeographicArea		Extension	
Equivalent Standards	FGD	$\overline{\mathbf{C}}$	GeographicArea		Extension	
•	SDSI		parcel area			
Documentation and						
Submission Requirements	No do	ocumentatioi	n is required for thi	is feature.	1	
Related Features						
Data Capture Rules: Parcel	bounde	ary informat	ion is usually obtai	inable from the co	unty or local	
government.		-			<u> </u>	
Monumentation	No m	onumentatio	on required.			
Survey Point Location		Horiz	ontal	Ver	tical	
Survey I omit Location		N/	'A	N	/A	
Aggurgay Doguiroments (in		Horiz	vontal	Ver	tical	
Accuracy Requirements (in feet)		Horizontal		Orthometric	Ellipsoidal	
ieet)	As provided.		N/A	N/A		
Resolution	Geographic Coordinates		Distances and Elevations			
Resolution	Fiv	ive hundredths of arc second		Nearest foot		
Feature Attributes						
Attribute (Datatype)			De	scription		
area (Real)			f the area, zone, or		units.	
useOfParcel (String 16)		The curren	nt primary use of th	e parcel.		
name (VARCHAR2 (50))			on name associate	d with the property	y area.	
description (VARCHAR2 (255			ption of the area.			
status (Enumeration: codeStatu	ıs)	A temporal description of the operational status of the feature.				
		This attribute is used to describe real-time status. Any locally used number to identify the parcel.				
parcelNumber (String 12)						
status (Enumeration: codeStatu	ıs)	The status of the parcel. (Active, inactive, terminated)				
legalDescription (String 240)		The complete legal description of the property as it appears in				
1.4.1.16.1		the deed.				
dateAcquired (Date)		The date the parcel was acquired by the current owner. Format				
		for date is YYYYMMDD (i.e. September 15, 1994 =				
agaggad Value (Basi)	19940915).			1 6.1 1		
assessedValue (Real)	The most recent assessed value of the parcel.					
decuretetelice (attilig 30)	Reference (String 30) Reference to where the deed to the parcel is recorded in s			orucu III Sucii		
	information as Plat Book and Page. An operator-defined work area. This attribute can be used by					
userFlag (String 254)					can be used by	
userFlag (String 254)		An operato	or-defined work are	ea. This attribute	•	
userFlag (String 254)		An operator the operator	or-defined work are or for user-defined	ea. This attribute of system processes.	It does not	
userFlag (String 254)		An operator the operator affect the s	or-defined work are or for user-defined subject item's data	ea. This attribute of system processes.	It does not	
		An operator the operator affect the store the st	or-defined work are or for user-defined subject item's data ubject item's data.	ea. This attribute of system processes. integrity and shou	It does not ld not be used to	
userFlag (String 254) Alternative (Integer2)		An operator the operator affect the store the	or-defined work are or for user-defined subject item's data	ea. This attribute of system processes. integrity and shou	It does not ld not be used to	

5.6.10. State

5.0.10. State						
Definition: Boundary line of t	he land	and water u	nder the right, pow	er, or authority of	the state	
government.						
Feature Group	Cadas	stral				
Feature Class Name	State					
Feature Type	Polyg	gon				
CADD Standard Requireme	nts					
Layer/Level			Descri	ption		
V-PROP-STAT-	State	Boundary		•		
		Color	Linetype	Line Weight	Symbol	
AutoDesk Standards		6		1 MM		
MicroStation Standards		5	Continuous	7	User Defined	
Sensitivity	Restr	icted				
~	AIXN		GovernmentalUn	pit	Extension	
Equivalent Standards	FGD		GovernmentalUn		Extension	
Equivarent Standards	SDSI		political_jurisdic		Extension	
Documentation and						
Submission Requirements	No do	ocumentation	n is required for thi	s feature.		
Related Features						
Data Capture Rules: The sta	ta hau	dam is usu	ally obtainable from	n the state govern	mant	
Monumentation		onumentatio		i ine siaie governi	neni.	
Wonumentation	NO III	Horiz		Vow	tical	
Survey Point Location					<u> </u>	
		N/	A			
Accuracy Requirements (in		Horizontal		Vertical Orthometric Ellipsoida		
feet)		-A	-:1-1		Ellipsoidal	
		As pro		N/A	N/A	
Resolution		Geographic Coordinates Five hundredths of arc second		Distances and Elevations Nearest foot		
7	Fiv	e hundredth	s of arc second	Neare	st foot	
Feature Attributes				• 4•		
Attribute (Datatype)		TDI		scription		
name (VARCHAR2 (50))	-11		on name associated	a with the property	y area.	
description (VARCHAR2 (25)			ption of the area.		2.1.2	
status (Enumeration: codeStatus	us)		l description of the	*		
			ute is used to descr			
userFlag (String 254)		An operator-defined work area. This attribute can be used by				
		the operator for user-defined system processes. It does not				
. (2)			subject item's data	integrity and shoul	ld not be used to	
		store the si				
		item's data				
Alternative (Integer2)		Discriminator used to tie features of a plan or poroposal				
	together into a version.					

5.6.11. Zoning

Definition: A parcel of land zoned specifically for real estate and land management purposes; more	
specifically for commercial, residential, or industrial use.	
Feature Group	Cadastral
Feature Class Name	Zoning
Feature Type	Polygon
CADD Standard Requirements	

Layer/Level			Descri	ption		
V-PROP-ZONG-	Zonir	g Areas				
		Color	Linetype	Line Weight	Symbol	
AutoDesk Standards		8	Continuous	1 MM	User Defined	
MicroStation Standards		9		7	Oser Defined	
Sensitivity	Restricted					
	AIXN	Л	Zoning		Extension	
Equivalent Standards	FGD	C	Zoning		Extension	
	SDSI	TIE	zoning_area			
Documentation and Submission Requirements	No do	ocumentation	is required for thi	s feature.	14	
Related Features						
Data Capture Rules: Zoning	g limits o	and informat	ion is usually obta	inable from the lo	cal zoning office.	
Monumentation	No mo	numentation	required.			
Survey Doint Leastion		Horizo	ontal	Vertical		
Survey Point Location		N/A	A	N/A		
A course or Decreivements		Horizo	ntal	Vertical		
Accuracy Requirements (in feet)		Horizo	ontai	Orthometric	Ellipsoidal	
(m leet)		As prov	rided.	N/A	N/A	
Resolution	G	eographic (Coordinates	Distances and Elevations		
Resolution	Fi	ve hundredtl	of a second	Nearest foot		
Feature Attributes						
Attribute (Datatype)				scription		
name (VARCHAR2 (50))		Name of the	e feature.			
description (VARCHAR2 (25	(5))	A brief des	cription of the feat	ature.		
status (Enumeration: codeStat	tus)	The status	of the parcel. (Act	tive, inactive, terminated)		
landOwnerRestriction (String	16)	Codes dete	etermining the land owner restriction for the parcel.			
zoningClassification (Enumer	ation:	The zoning classification of the parcel.				
CodeZoningClass)						
userFlag (String 254)		An operator-defined work area. This attribute can be used by				
		the operator for user-defined system processes. It does not				
* _ *		affect the subject item's data integrity and should not be used to				
			bject item's data.			
Alternative (Integer2)			tor used to tie feat	ures of a plan or p	oroposal	
		together into a version.				

5.7. Group: ENVIRONMENTAL

5.7.1. Environmental Contamination Area

Definition: A facility or other locational entity, (as designated by the Environmental Protection						
Agency) that is regulated or m			concerns.			
Feature Group	Environmental					
Feature Class Name	EnvironmentalContaminationArea					
Feature Type	Polygon					
CADD Standard Requireme	ents					
Layer/Level	Description					
H-POLL-CONC-	Polluted area of concern					
H-POLL-POTN-	Potential spi	ll, emission, or releas				
	Color	Line type	Line Weight	Symbol		
AutoDesk Standards	2	Continuous	1 MM	User Defined		
MicroStation Standards	4	Continuous	7	esci Denned		
Sensitivity	Restricted		(Z_4			
	AIXM		ContaminationArea	Extension		
Equivalent Standards	FGDC	Environmental	ContaminationArea	Extension		
	SDSFIE	environmental_	regulated_facility_sit	e		
Documentation and	None					
Submission Requirements	TVOIC					
Related Features						
Data Capture Rules: Collect			prizontal extents.			
Monumentation		entation required.				
Survey Point Location	Н	orizontal	Vertical			
Survey rome Escation		N/A	N/A			
Accuracy Requirements (in	Н	orizontal	Vertical			
feet)	110112011411		Orthometric	Ellipsoidal		
1000)		± 5 ft	± 20 ft	N/A		
Resolution		hic Coordinates	Distances and	l Elevations		
Resolution			Distances and Neares	l Elevations		
Feature Attributes		hic Coordinates redth of arc second	Neares	l Elevations		
Feature Attributes Attribute (Datatype)	Five hundr	redth of arc second	Neares Description	l Elevations		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	Five hunds The s	redth of arc second	Neares Description cility.	l Elevations		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)	The 15)) A de	hic Coordinates redth of arc second name of a specific factoription of the source	Neares Description cility. e of the pollution.	I Elevations t foot		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25) environmentalHazardCategory	The 15)) A de Indic	redth of arc second name of a specific factorization of the source ates the broad category	Description cility. e of the pollution. ry or type of the mos	t foot t prevalent or		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)) environmentalHazardCategory (String 16)	The 15)) A de Indicesserio	name of a specific factorizates the broad categories environmental haz	Description cility. e of the pollution. ry or type of the mos ard present at the site	t prevalent or		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)) environmentalHazardCategory (String 16) pollutantReleaseType (String	The 15)) A de serio 16) A de	name of a specific factorizates the broad categories environmental haz scriptor for the type of	Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex	t prevalent or		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)) environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16)	The 15)) A de 16) A de A de	name of a specific factorizates the broad categories environmental hazascriptor for the severi	Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex ty of the pollution.	t prevalent or perienced.		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)) environmentalHazardCategory (String 16) pollutantReleaseType (String	The 15)) A de 7 Indic serio 16) A de A de 6) A co	name of a specific factorizates the broad categories environmental hazascriptor for the severate indicating the urged	Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex	t prevalent or perienced.		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25: environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16) remediationUrgency (String 16)	The 15)) A de 7 Indices serio 16) A de A de 6) A correme	name of a specific factoristic the broad categoristic for the source at each of the source at the broad categoristic for the type of the several definition project.	Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex ty of the pollution. ency for accomplishin	t prevalent or perienced.		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)) environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16)) remediationUrgency (String 16) toxicStatusOfPollutant (String 16)	The indicate The	name of a specific factoristic the broad categorists are environmental hazascriptor for the several de indicating the urgediation project.	Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex ty of the pollution. ency for accomplishir	t prevalent or perienced.		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25: environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16) remediationUrgency (String 16)	The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The interpretation The	name of a specific factorizates the broad categories environmental hazascriptor for the type of scriptor for the severate indicating the urgediation project.	Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex ty of the pollution. ency for accomplishin	t prevalent or perienced.		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25: environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16) remediationUrgency (String 16) toxicStatusOfPollutant (String status (enumeration: codeStatus	The number of the five hundred from the five	name of a specific factorizates the broad categorizates the broad categorizates the broad categorizates for the type of scriptor for the severate indicating the urgediation project. Scriptor for the toxic code indicating whether the severate code indicating whether the	Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex ty of the pollution. ency for accomplishir estatus of the pollution are the facility status	t prevalent or perienced. ag a site a. as Active or		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)) environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16)) remediationUrgency (String 16) toxicStatusOfPollutant (String 16)	The 15)) A de 7 Indice serio 16) A de 6) A correme 16) A de 18) The 6 Inact The 6	name of a specific factoristic the broad categorists are environmental hazascriptor for the several de indicating the urgediation project. Secriptor for the toxic code indicating wheth ive. Idate the pollution was redth of arc second	Neares Description cility. e of the pollution. ry or type of the mos ard present at the site of pollutant release ex ty of the pollution. ency for accomplishir estatus of the pollution aer the facility status s discovered. Format	t prevalent or experienced. ag a site a. is Active or for date is		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25)) environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16)) remediationUrgency (String 16) toxicStatusOfPollutant (String status (enumeration: codeStatudateFound (Date)	The number	name of a specific factoristic scription of the source attest he broad categoristic for the type of scriptor for the several definition project. Scriptor for the toxic code indicating whether indicating whether ive. In the Coordinates of the source attention of the source attention of the type of scriptor for the several definition project. Scriptor for the toxic code indicating whether ive. In the Coordinates of the source attention of the toxic code indicating whether ive. In the Coordinates of the source attention of the	Neares Description cility. e of the pollution. ry or type of the most ard present at the site of pollutant release exty of the pollution. ency for accomplishing status of the pollution are the facility status of the facility status of the pollution are the facility status of the po	t prevalent or experienced. ag a site a. is Active or for date is		
Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (25: environmentalHazardCategory (String 16) pollutantReleaseType (String severity (String 16) remediationUrgency (String 16) toxicStatusOfPollutant (String status (enumeration: codeStatus	The number	name of a specific factoription of the source ates the broad categories environmental hazascriptor for the type of scriptor for the severate indicating the urgediation project. Scriptor for the toxic code indicating whether ive. Idate the pollution was YYMMDD (i.e. September of the cause indicating t	Neares Description cility. e of the pollution. ry or type of the most ard present at the site of pollutant release exty of the pollution. ency for accomplishing status of the pollution are the facility status of the facility status of the pollution are the facility status of the po	t foot t prevalent or perienced. g a site sis Active or for date is 40915)		

userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.7.2. Fauna Hazard Area

5.7.2. Fauna Hazard Area						
Definition: An area where ther	e are hazards	s due 1	to wildlife activitie	es. This includes b	oird aircraft strike	
hazard (BASH) areas, and deer	strike areas.					
Feature Group	Environme	ntal				
Feature Class Name	FaunaHazardArea					
Feature Type	Polygon					
CADD Standard Requiremen	ts					
Layer/Level	Description					
V-TOPO-SPEC-		Species Site				
	Color		Linetype	Line Weight	Symbol	
AutoDesk Standards	2			1 MM	·	
MicroStation Standards	4		Continuous	7	User Defined	
Sensitivity	Restricted				ı	
	AIXM		AirspaceExtension	on	Extension	
Equivalent Standards	FGDC		FaunaHazardAre		Extension	
-1	SDSFIE		fauna_hazard_ar		2	
Documentation and			janne_nazara_ar			
Submission Requirements	None					
Related Features						
Data Capture Rules: Collect of	a closed poly	gon to	o its areatest horize	ontal extents		
Monumentation			on required.	mui exienis.		
Williamentation				Vor	tical	
Survey Point Location	Horizontal N/A		N/A			
	IV/A		Vertical			
Accuracy Requirements (in	(\smile)	Horizontal		Orthometric Ellipsoid		
feet)			. f4		N/A	
	± 5 ft			= 20 10		
Resolution		Geographic Coordinates		Distances and Elevations		
E-AA44-214	Five nun	Five hundredth of arc second Nearest foot				
Feature Attributes	1			• 4•		
Attribute (Datatype)	NT.	C .		scription		
name (VARCHAR2 (50))			he feature.	• 6	• .1	
description (VARCHAR2 (255)			tion or other uniqu		cerning the	
77			em, limited to 240		C.1. C.	
status (Enumeration: codeStatus		A temporal description of the operational status of the feature.				
1 15		This attribute is used to describe real-time status.				
hazardType		escript	tor of the type of the	ne hazard.		
(Enumeration: CodeHazardTyp	•		1 01 1			
userFlag (String 254)			or-defined work as			
			or for user-defined			
		affect the subject item's data integrity and should not be used to				
		store the subject item's data.				

Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.7.3. Flood Zone

5.7.3. Flood Zone							
Definition: Areas subject to 10	0-year, 500-year	and minimal floodir	ng.				
Feature Group	Environmental						
Feature Class Name	Floodzone						
Feature Type	Polygon						
CADD Standard Requirement	its						
Layer/Level		Descr	iption				
C-TOPO-FLZN-	Flood Zone						
	Color	Linetype	Line Weight	Symbol			
AutoDesk Standards	5	Continuous	1 MM	User Defined			
MicroStation Standards	1	Continuous	7	Oser Defined			
Sensitivity	Unclassified						
	AIXM	FloodZone		Extension			
Equivalent Standards	FGDC	FloodZone		Extension			
	SDSFIE	flood_zone_area					
Documentation and	None						
Submission Requirements	None						
Related Features							
Data Capture Rules: Collect	a closed polygon	to its greatest horiz	ontal extents.				
Monumentation	No monumenta	tion required.					
Curvey Daint Leastion	Hor	izontal	Ver	tical			
Survey Point Location	1	V/A	N/A				
A D : 4 (:	Tion		Vertical				
Accuracy Requirements (in	Hor	izontal	Orthometric	Ellipsoidal			
feet)	4	5 ft	± 20 ft	N/A			
D. L.C.	Geographi	c Coordinates	Distances an	d Elevations			
Resolution		th of arc second	Nearest foot				
Feature Attributes							
Attribute (Datatype)		De	scription				
name (VARCHAR2 (50))	Name of	the feature.					
description (VARCHAR2 (255)) Description	on of the feature.					
status (Enumeration: codeStatu	s) A tempor	al description of the	operational status	of the feature.			
	This attril	bute is used to descr	ribe real-time statu	s.			
zoneType (Enumeration:	The zonir	ng classification of t					
CodeZoneType)							
userFlag (String 254)	An opera	tor-defined work are	ea. This attribute of	can be used by			
		tor for user-defined					
	affect the	subject item's data	integrity and shoul	ld not be used to			
-		subject item's data.					
Alternative (Integer2)	Discrimin	nator used to tie feat	ures of a plan or p	oroposal			
Í .	to anthon i	together into a version.					

5.7.4. Flora Species Site

been identified Feature Group	Environmental				
Definition: The specific location where an individual flora species or an aggregate of flora species has					

Feature Class Name	Flora	FloraSpeciesSite					
Feature Type		Point					
CADD Standard Requiremen	nts						
Layer/Level			Descr	iptio	n		
L-PLNT-CTNR-	Cont	Containers or planters					
L-PLNT-PLTS-		Planting plants (e.g., ornamental annuals and perennials)					
		Color	Linetype	1	ne Weight	Symbol	
AutoDesk Standards		5			1 MM		
MicroStation Standards	1	1	Continuous		7	User Defined	
CADD Standard Requiremen	ıts			1			
Layer/Level	T		Descr	intio	n		
L-PLNT-TREE-	Tree	s (e.g., everg	green, deciduous, e	_			
		Color	Linetype		ne Weight	Symbol	
AutoDesk Standards		4	• •		1 MM		
MicroStation Standards	1	7	Continuous		7	User Defined	
Sensitivity	Uncl	assified		1			
	AIX		FloraSpeciesSite			Extension	
Equivalent Standards	FGD		FloraSpeciesSite	-		Extension	
Equivalent Standards	SDS		flora_species_sit)	Extension	
Documentation and			jioiu_species_sii				
Submission Requirements	None	e					
Related Features	1			<u> </u>			
Data Capture Rules: Collect	a poir	nt indicating	the individual loca	ation	or the center	of a group.	
Monumentation		nonumentati				<i>sj</i> 8. <i>s p</i> .	
	1		rizontal		V	ertical	
Survey Point Location		N/A			·	N/A	
					Vertical		
Accuracy Requirements (in		Но	rizontal		Orthometr	ic Ellipsoidal	
feet)		+ 5 ft			1 20 6		
			± 5 ft		$\pm 20 \text{ ft}$	N/A	
,							
Resolution	Ĉ	Geograph	± 5 ft ic Coordinates dth of arc second		Distances	N/A and Elevations arest foot	
,	Ė	Geograph	ic Coordinates		Distances	and Elevations	
Resolution Feature Attributes	Ė	Geograph	dth of arc second	scrip	Distances Nea	and Elevations	
Resolution Feature Attributes Attribute (Datatype)	Ċ	Geograph	ic Coordinates dth of arc second De	scrip	Distances Nea	and Elevations	
Resolution Feature Attributes		Geograph Five hundre Name of the	ic Coordinates dth of arc second De		Distances Nea	and Elevations	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	5))	Geograph Five hundre Name of the Any brief of	tic Coordinates odth of arc second Description of the f	eatur	Distances Nea tion	and Elevations arest foot	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)	5))	Geograph Five hundre Name of th Any brief of A tempora	tic Coordinates odth of arc second Description Description	eatur oper	Distances Nea tion e. ational status	and Elevations arest foot of the feature.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)	5))	Geograph Five hundre Name of the Any brief of A temporal This attribution	Description of the flatescription of the fla	eatur oper	Distances Nea tion e. ational status	and Elevations arest foot of the feature.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus)	5))	Name of the Any brief of A temporal This attribut A descriptor	Description of the flute is used to descript or of the type of flowers.	eatur oper ora.	Distances Nea tion e. eational status eal-time statu	and Elevations arest foot of the feature.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) plantType (String 16) plantHeight (Real)	(i)) (is)	Name of the Any brief of A tempora. This attribute A descriptor The average	Description of the fute is used to description description of the fute is used to description description description description of the fute is used to description descripti	eatur oper ibe ro ora.	Distances Nea tion e. cational status eal-time statu	and Elevations arest foot of the feature.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) plantType (String 16)	(i)) (is)	Name of the Any brief of A temporal This attribute A descriptor The average Defines if	Description of the flute is used to descript of the type of floge height of the floring th	e oper ribe ro ora. ra spe	Distances Nea tion e. eational status eal-time statu ecies. ignated as a control	and Elevations arest foot of the feature. s.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatu plantType (String 16) plantHeight (Real) endangeredSpeciesActSite (Str	(i)) (is)	Name of the Any brief of A temporal This attribute A descriptor The average Defines if	Description of the flute is used to description of the ge height of the flute habitat has been the Endangered specific conditions.	e oper ribe ro ora. ra spe	Distances Nea tion e. eational status eal-time statu ecies. ignated as a control	and Elevations arest foot of the feature. s.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatu plantType (String 16) plantHeight (Real) endangeredSpeciesActSite (Str	(i)) (is)	Name of the Any brief of A temporal This attribute A descriptor The average Defines if a under (C) the designated	Description of the flute is used to description of the ge height of the flute habitat has been the Endangered specific conditions.	e oper ribe ro ora. ra spe n des	Distances Nea tion e. eational status eal-time statu ecies. ignated as a condition of the	and Elevations arest foot of the feature. s. critical habitat by been so	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus plantType (String 16) plantHeight (Real) endangeredSpeciesActSite (Str. 1)	(i)) (is)	Name of the Any brief of A temporal This attribute A descriptor The average Defines if under (C) the designated An operator	Description of the flute is used to description of the ge height of the flow the habitat has been the Endangered specific (N).	e oper ribe re ora. ra spe n des ecies	Distances Nea tion e. cational status eal-time statu ecies. ignated as a c Act or has no	and Elevations arest foot of the feature. s. critical habitat by been so can be used by	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus plantType (String 16) plantHeight (Real) endangeredSpeciesActSite (Str. 1)	(i)) (is)	Name of the Any brief of A temporal This attribut A descriptor The average Defines if under (C) to designated An operator the operator the operator of the five hundre of the control of t	Description of the flute is used to description of the flute habitat has been the Endangered specific (N).	e oper cibe re ora. ra spe n des ecies ea. T	Distances Nea tion e. ational status eal-time statu ecies. ignated as a condition of the	and Elevations arest foot of the feature. s. critical habitat by been so can be used by It does not	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus plantType (String 16) plantHeight (Real) endangeredSpeciesActSite (Str. 1)	(i)) (is)	Name of the Any brief of A temporal This attribute A descriptor The average Defines if under (C) the designated An operator the operator affect the second	Description of the fute is used to description of the flow the habitat has been the Endangered specific (N). Or-defined work are for for user-defined	e oper cibe re ora. ra spe n des ecies ea. T	Distances Nea tion e. ational status eal-time statu ecies. ignated as a condition of the	and Elevations arest foot of the feature. s. critical habitat by been so can be used by It does not	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus plantType (String 16) plantHeight (Real) endangeredSpeciesActSite (Str. 1)	(i)) (is)	Name of the Any brief of A temporal This attribute A descriptor The average Defines if a under (C) the designated An operated the operated affect the store the su	Description of the flow the habitat has been the Endangered specification of the flow the habitat has been the Endangered specification of the the batter of the type of flow the habitat has been the Endangered specification of the type of flow the habitat has been the Endangered specification of the type of flow the habitat has been the Endangered specification of the type of the type of the Endangered specification of the type of the Endangered specification of the type of the typ	e operibe repribe repribe repribe reprise repr	Distances Nea tion e. eational status eal-time statu ecies. ignated as a condition of the	and Elevations arest foot of the feature. s. critical habitat by been so can be used by It does not ld not be used to	

5.7.5. Forest Stand Area

	nunity with similar characteristics.					
ıts						
	Description					
Plan	ting beds					
Bush	nes and shrub	os (e.g., evergreen,	deciduous)			
_						
Grou	undcover and	l vines				
Mula	ches - organi	c and inorganic				
Tree	line			<u> </u>		
Law	n areas (turfi	ng limits)				
Exis	ting treelines	and vegetation				
	Color	Linetype	Line Weight	Symbol		
	2	Continuous	1 MM	User Defined		
	4	Continuous	7	Osei Deillied		
Conf	fidential		>			
AIXM ForestStandAred						
FGDC		ForestStandArea		Extension		
SDSFIE flora_species_management_area			anagement_area			
NOIR						
ring th	he limits of th					
1	ie iiiiiis oj ii	he tree outlines cre	eate the graphical	line in a right		
tne eu			eate the graphical the correct side o			
	ement will fo	rm the scallops on				
	ement will fo	rm the scallops on on required.	the correct side o	f the forest		
	ement will fo nonumentati Horiz	rm the scallops on on required.	the correct side o	f the forest tical		
	ement will fo	rm the scallops on on required.	the correct side of Ver	f the forest tical /A		
	ement will fo nonumentati Horiz N	rm the scallops on on required. contal	the correct side of Ver	tical /A		
	nonumentati Horiz Horiz	rm the scallops on on required. contal A	ver the correct side of Ver N Ver Orthometric	tical /A tical Ellipsoidal		
	ement will fo nonumentati Horiz N	rm the scallops on on required. contal A	Ver N Ver Orthometric ± 20 ft	tical /A tical Ellipsoidal N/A		
No n	nonumentati Horiz N Horiz ± 5	rm the scallops on on required. contal A	Ver N Ver Orthometric ± 20 ft	tical /A tical Ellipsoidal		
No n	monumentati Horiz N Horiz ± 5 Geographic	on required. contal /A contal	Ver N Ver Orthometric ± 20 ft Distances an	tical /A tical Ellipsoidal N/A		
No n	monumentati Horiz N Horiz ± 5 Geographic	on required. contal fit Coordinates	Ver N Ver Orthometric ± 20 ft Distances an	tical /A tical Ellipsoidal N/A d Elevations		
No n	monumentati Horiz N Horiz ± 5 Geographic	on required. contal Contal Cordinates of arc second	Ver N Ver Orthometric ± 20 ft Distances an	tical /A tical Ellipsoidal N/A d Elevations		
No n	monumentati Horiz N Horiz ± 5 Geographic	on required. contal f ft Coordinates n of arc second	Ver N Ver Orthometric ± 20 ft Distances an Neare	tical /A tical Ellipsoidal N/A d Elevations		
No n	monumentation Horiz Loriz Horiz ± 5 Geographic ve hundredth Name of the A description	on required. contal A contal S ft Coordinates of arc second December feature. on of the flora spe	Ver N Ver Orthometric ± 20 ft Distances an Neare scription	tical /A tical Ellipsoidal N/A ad Elevations st foot		
No n	Horiz Horiz Geographic ve hundredth Name of th A descripti A temporal	on required. contal A contal f ft Coordinates n of arc second De te feature. on of the flora specific description of the	Ver N Ver Orthometric ± 20 ft Distances an Neare scription cies.	tical /A tical Ellipsoidal N/A ad Elevations st foot		
No n	monumentati Horiz No Horiz ± 5 Geographic ve hundredth Name of th A descripti A temporal This attribu	on required. contal f ft Coordinates n of arc second De ne feature. on of the flora speciate is used to description of the	Ver N Ver Orthometric ± 20 ft Distances an Neare scription cies. coperational status ribe real-time status	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s.		
No n	monumentati Horiz No Horiz ± 5 Geographic ve hundredth Name of th A descripti A temporal This attribu	on required. contal f ft Coordinates n of arc second De ne feature. on of the flora speciate is used to description of the	Ver N Ver Orthometric ± 20 ft Distances an Neare scription cies.	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s.		
	Envi Fore Poly ts Gras Plan Bush Grou Muld Sprig Tree Law Exis	Environmental ForestStandArea Polygon ts Grass, sod Planting beds Bushes and shrub l Groundcover and Mulches - organi Sprigs Tree line Lawn areas (turfi Existing treelines Color 2 4 Confidential AIXM FGDC SDSFIE None	Environmental ForestStandArea Polygon ts Descr Grass, sod Planting beds Bushes and shrubs (e.g., evergreen, Bush and shrub line Groundcover and vines Mulches - organic and inorganic Sprigs Tree line Lawn areas (turfing limits) Existing treelines and vegetation Color Linetype 2 Continuous Confidential AIXM ForestStandArea FGDC ForestStandArea SDSFIE flora_species_ma	Environmental ForestStandArea Polygon ts Description Grass, sod Planting beds Bushes and shrubs (e.g., evergreen, deciduous) Bush and shrub line Groundcover and vines Mulches - organic and inorganic Sprigs Tree line Lawn areas (turfing limits) Existing treelines and vegetation Color Linetype Line Weight 2 Continuous 7 Confidential AIXM ForestStandArea FGDC ForestStandArea SDSFIE flora_species_management_area		

userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.7.6. Hazardous Material Storage Site

5.7.6. Hazardous Material S							
Definition: A defined or bound	led geographical a	rea designated and	used for the storag	ge of contained			
hazardous materials.							
Feature Group	Environmental						
Feature Class Name	HazardousMaterialStorageSite						
Feature Type	Point						
CADD Standard Requirement	equirements						
Layer/Level	Description						
H-STOR-HAZM-	Hazardous mater	Hazardous materials					
H-STOR-HAZW-	Hazardous waste	2	\mathcal{O}_{\bullet}				
	Color	Line type	Line Weight	Symbol			
AutoDesk Standards	5	Continuous	1 MM	User Defined			
MicroStation Standards	1	Continuous	7	Oser Defined			
Sensitivity	Unclassified						
	AIXM	HazardousMater	ialStorageSite	Extension			
Equivalent Standards	FGDC	HazardousMater	ialStorageSite	Extension			
	SDSFIE	Contained_hazwe	vaste_storage_site				
Documentation and	None						
Submission Requirements	TVOIC						
Related Features							
Data Capture Rules: Collect			tal extents.				
Monumentation	No monumentati						
Survey Point Location		zontal		tical			
Survey Tome Execution	N	I/A		/A			
Accuracy Requirements (in	Hori	zontal		tical			
feet)	11011	2011141	Orthometric	Ellipsoidal			
reet)		5 ft	± 20 ft	N/A			
Resolution		Coordinates	Distances and Elevations				
	Five hundredt	h of arc second	Nearest foot				
Feature Attributes	T						
Attribute (Datatype)			scription				
name (VARCHAR2 (50))	Name of the						
description (VARCHAR2 (255		•	other unique information concerning the				
		m, limited to 240 cl					
status (Enumeration: codeStatu		d description of the					
		ute is used to descr					
storeHazardousMaterialCatego		al type or category	of contained hazar	rdous material			
(Enumeration:	stored.						
CodeHazardCategory)							

userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.7.7. Noise Contour					
Definition: An area that desc					
Day/Night average sound level	(Ldn) descriptor is	s typically used to o	categorize noise lev	els. [Source: 14	
CFR 150]					
Feature Group	Environmental				
Feature Class Name	NoiseContour				
Feature Type	Polygon				
CADD Standard Requiremen	nts			1	
Layer/Level	Description				
C-TOPO-AUZN-	Noise contour zo	one			
	Color	Line type	Line Weight	Symbol	
AutoDesk Standards	3	Continuous	1	User Defined	
MicroStation Standards	2	Continuous	7	User Defined	
Sensitivity	Confidential		•		
	AIXM	NoiseContour		Extension	
Equivalent Standards	FGDC	NoiseContour		Extension	
	SDSFIE	Noise_contour_li	ine		
Documentation and	Noise contour m	0.0			
Submission Requirements	Noise contour in	ар			
Related Features					
Data Capture Rules: Acquire	from the Integrate	ed Noise Model (IN	<i>M</i>).		
Monumentation	No monumentati	on required.			
Survey Doint Leastion	Hori	zontal	Vert	ical	
Survey Point Location	N	[/A	N/	A	
Agourgos Boguinomenta (in	Howi	zontal	Vertical		
Accuracy Requirements (in feet)	Horn	ZUIItai	Orthometric	Ellipsoidal	
leet)	N	N/A		N/A N/A	
Resolution	Geographic	Coordinates	Distances and Elevations		
Resolution	N	I/A	N/	N/A	
Feature Attributes					
Attribute (Datatype)		Des	scription		
name (VARCHAR2 (50))	Name of th	ne feature.			
description (VARCHAR2 (255)) A description for the noise zone.		ne.		
status (Enumeration: codeStatu	s) A tempora	l description of the	operational status	of the feature.	
	This attrib	ute is used to descri	ibe real-time status		
contourValue (Real)	The decibel level of the contour line				
userFlag (String 254)	An operato	or-defined work are	a. This attribute ca	an be used by	
	the operato	or for user-defined s	system processes.	It does not	
	affect the s	subject item's data i	ntegrity and should	l not be used to	
		ubject item's data.			
Alternative (Integer2)	Discrimina	ator used to tie feat	ares of a plan or po	roposal	
	Discriminator used to tie features of a plan or poroposal together into a version.				
	4				

5.7.8. Noise Incident

Definition: A formal complaint by an individual or group regarding excessive noise resulting airport operations. Feature Group		
Feature Group Environmental Feature Class Name NoiseIncident Feature Type Point CADD Standard Requirements Layer/Level Description C-TOPO-AUCO-Noise Complaint Color Linetype Line Weight Syn AutoDesk Standards 5 Continuous 1 MM User D	abal	
Feature Class Name NoiseIncident Feature Type Point CADD Standard Requirements Layer/Level Description C-TOPO-AUCO-Noise Complaint Color Linetype Line Weight Syn AutoDesk Standards 5 Continuous 1 MM User D	ahal	
Feature Type Point CADD Standard Requirements Layer/Level Description C-TOPO-AUCO- Noise Complaint Color Linetype Line Weight Syn AutoDesk Standards 5 Continuous 1 MM User F	ahal	
CADD Standard Requirements Layer/Level Description C-TOPO-AUCO- Noise Complaint Color Line Weight Syn AutoDesk Standards 5 Continuous 1 MM User F	ahal	
Layer/Level Description C-TOPO-AUCO- Noise Complaint Color Line Weight Syn AutoDesk Standards 5 Continuous 1 MM	ahal	
C-TOPO-AUCO- Color Linetype Line Weight Syn AutoDesk Standards 5 Continuous 1 MM User C	ahal	
Color Linetype Line Weight Syn AutoDesk Standards 5 Continuous 1 MM User F	ahol	
AutoDesk Standards 5 Continuous 1 MM User F	ahal	
Continuous	11001	
MicroStation Standards 1 Continuous 7	Defined	
	<i>i</i> crifica	
Sensitivity Restricted		
AIXM NoiseIncident Extension	on	
Equivalent Standards FGDC NoiseIncident Extension	on	
SDSFIE noise_incident_point	_	
Documentation and Name		
Submission Requirements None		
Related Features		
Data Capture Rules: Place collection point at address of complaint.		
Monumentation No monumentation required.		
Horizontal Vertical		
Survey Point Location N/A N/A		
Vertical Vertical		
Accuracy Requirements (in Horizontal Orthometric Ellips	soidal	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	/A	
Geographic Coordinates Distances and Elevat	ions	
Resolution Five hundredth of arc second Nearest foot		
Feature Attributes		
Attribute (Datatype) Description		
name (VARCHAR2 (50)) Name of the feature.		
description (VARCHAR2 (255)) A general description of the complete incident, including	gany	
reference material.	. •	
	ature.	
status (Enumeration: codeStatus) A temporal description of the operational status of the fe		
status (Enumeration: codeStatus) A temporal description of the operational status of the feature attribute is used to describe real-time status.		
This attribute is used to describe real-time status.		
This attribute is used to describe real-time status. reporter (String 50) The name of the individual or organization reporting the		
This attribute is used to describe real-time status. reporter (String 50) The name of the individual or organization reporting the incident.	ed by	
This attribute is used to describe real-time status. reporter (String 50) The name of the individual or organization reporting the incident. userFlag (String 254) An operator-defined work area. This attribute can be use	ed by	
This attribute is used to describe real-time status. The name of the individual or organization reporting the incident. UserFlag (String 254) An operator-defined work area. This attribute can be use the operator for user-defined system processes. It does not be used to describe real-time status.	ed by	
This attribute is used to describe real-time status. The name of the individual or organization reporting the incident. UserFlag (String 254) An operator-defined work area. This attribute can be used the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be a	ed by	

5.7.9. Noise Monitoring Point

Definition: The location of noise sensing equipment or where a noise sample is taken.				
Feature Group	Environmental			
Feature Class Name	NoiseMonitoringPoint			
Feature Type	Point			

CADD Standard Requiremen	ts				
Layer/Level	Description				
C-TOPO-AUST-	Noise Monitorin	ng Station			
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	4	Point	1 MM	- User Defined	
MicroStation Standards	7	Foliit	7	User Derilled	
Sensitivity	Restricted				
	AIXM	NoiseMonitoring	Point	Extension	
Equivalent Standards	FGDC	NoiseMonitoring	Point	Extension	
	SDSFIE	noise_monitoring	g_point		
Documentation and Submission Requirements	No documentati	on is required for th	nis feature.		
Related Features					
Data Capture Rules: Collect			ion.		
Monumentation	No monumentat	ion required.			
Survey Point Location	Horizontal		Vertical		
Survey I omt Location	N/A		N/A		
A course or Decreivements (in	Цот	Horizontal		Vertical Orthometric Ellipsoidal	
Accuracy Requirements (in feet)	11011			Ellipsoidal	
leet)	± 5 ft		± 20 ft	N/A	
Resolution	Geographic	Coordinates	Distances an	d Elevations	
Resolution	Five hundred	th of arc second	Nearest foot		
Feature Attributes					
Attribute (Datatype)		Des	scription		
name (VARCHAR2 (50))	Name of t	he feature.			
description (VARCHAR2 (255))) Description	on of the feature.			
status (Enumeration: codeStatu	s) A tempora	al description of the	operational status	of the feature.	
	This attribute is used to describe real-time status			S	
userFlag (String 254)	An operator-defined work area. This attribute can be us			can be used by	
	the operator for user-defined system processes. It does no				
	affect the subject item's data integrity and should not be used				
+ 4	$\overline{}$	ubject item's data.			
Alternative (Integer2)	Discrimin	ator used to tie feat	ures of a plan or p	oroposal	
Timermum (Times Ser 2)	w .	nto a version.			

5.7.10. Sample Collection Point

Definition: The physical location at which one or more environmental hazards field samples are				
collected.				
Feature Group	Environmental			
Feature Class Name	SampleCollectionPoint			
Feature Type	Point			
CADD Standard Requiremen	ts			
Layer/Level	Description			
H-SAMP-AIRS-	Air samples			
C-TOPO-BORE-	Boring locations			
H-SAMP-BIOL-	Biological samples			
H-SAMP-GWTR-	Ground water samples			
H-SAMP-SEDI-	Sediment samples			
H-SAMP-SOIL-	Soil samples			

H-SAMP-SOLI-	Solic	Solid material samples				
H-SAMP-SWTR-		Surface water samples				
H-SAMP-WAST-		Waste samples				
V-TOPO-BORE-		Boring locations				
1010 2016		Color	Linetype	Line Weight	Symbol	
AutoDesk Standards		6		1 MM		
MicroStation Standards		5	Continuous	7	User Defined	
Sensitivity	Conf	idential		· · · · · · · · · · · · · · · · · · ·	L	
	AIX				Extension	
Equivalent Standards	FGD		SampleCollection		Extension	
1	SDS			llection_location_p		
Documentation and Submission Requirements	None	e				
Related Features	L					
Data Capture Rules: Collect						
Monumentation	No n	nonumentati				
Survey Point Location		Horiz			tical	
		N/	/A			
Accuracy Requirements (in		Horizontal		Vertical		
· -						
feet)				Orthometric	Ellipsoidal	
feet)		± 1		± 1 ft	N/A	
,		Geographic	Coordinates	± 1 ft Distances an	N/A d Elevations	
Resolution		Geographic		± 1 ft Distances an	N/A	
Resolution Feature Attributes		Geographic	Coordinates n of arc second	± 1 ft Distances an Neare	N/A d Elevations	
Resolution Feature Attributes Attribute (Datatype)		Geographic ve hundredth	Coordinates n of arc second De	± 1 ft Distances an	N/A d Elevations	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	Fi	Geographic ve hundredth Name of th	Coordinates n of arc second De ne feature.	± 1 ft Distances an Neare	N/A ad Elevations st foot	
Resolution Feature Attributes Attribute (Datatype)	Fi	Seographic ve hundredth Name of th Descriptor	Coordinates of arc second Decrete feature. providing any add	± 1 ft Distances an Neare scription	N/A d Elevations st foot n to describe the	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	Fi	Name of the Descriptor sampling lo	Coordinates n of arc second De ne feature. providing any add pocation in text form	± 1 ft Distances an Neare scription litional information mat (e.g., monitorin	N/A d Elevations st foot n to describe the ng well located	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	Fi	Name of the Descriptor sampling lot 10 feet nor	De providing any add pocation in text for theast of building	± 1 ft Distances an Neare scription litional information at (e.g., monitorin 624 within spill are	N/A d Elevations st foot n to describe the ng well located	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255))	Fi))	Name of th Descriptor sampling lo 10 feet nor [Source: SI	De de feature. providing any addrecation in text form theast of building DSFIE Feature Tal	± 1 ft Distances an Neare scription litional information mat (e.g., monitorin 624 within spill are ble]	N/A ad Elevations st foot n to describe the ng well located ea). IRPIMS.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	Fi))	Name of the Descriptor sampling lo 10 feet nor [Source: SI A temporal	De percentage of the second of arc second of	± 1 ft Distances an Neare scription litional information at (e.g., monitorin 624 within spill are ble) e operational status	N/A ad Elevations st foot n to describe the ng well located ea). IRPIMS.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus)	Fi))	Name of the Descriptor sampling to 10 feet nor [Source: SI A temporal This attribute.]	De percentage de la constant de la c	± 1 ft Distances an Neare Scription litional information mat (e.g., monitorin 624 within spill are ble) c operational status ribe real-time statu	N/A ad Elevations st foot n to describe the ng well located ea). IRPIMS. s of the feature.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus) collectionPointLocation	Fi))	Name of the Descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor Sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 10 feet n	De de feature. providing any addrecation in text formulates of building and DSFIE Feature Tall description of the late is used to describing the type of late.	± 1 ft Distances an Neare Scription litional information mat (e.g., monitorin 624 within spill arble) c operational status ribe real-time statu ocation which is u	N/A ad Elevations st foot n to describe the ng well located ea). IRPIMS. s of the feature.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus) collectionPointLocation (VARCHAR2 (50))	Fi))	Name of the Descriptor sampling leads to the Source: SI A temporal This attribution Code descripting (e.g., and the sampling (De no farc second De no farc se	± 1 ft Distances an Neare Scription litional information mat (e.g., monitorin 624 within spill are ble] c operational status ribe real-time statu ocation which is us, wl=well).	N/A Id Elevations In to describe the ng well located ea). IRPIMS. Is of the feature. Is of the feature. In the feature of the feature.	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus) collectionPointLocation	Fi))	Name of the Descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descripting (of An operator)	De periodical description of the sused to describing the type of leeg., bh= borehole, or-defined work are	± 1 ft Distances an Neare Neare Scription litional information at (e.g., monitorin 624 within spill are ble] coperational status ribe real-time statu ocation which is used where well).	N/A ad Elevations st foot n to describe the ng well located ea). IRPIMS. s of the feature. s. ndergoing can be used by	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus) collectionPointLocation (VARCHAR2 (50))	Fi))	Name of the Descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling to 4n operato the operator	Description of the is used to description of the is used to describing the type of lee.g., bh= borehole, or defined work are or for user-defined	± 1 ft Distances an Neare Scription litional information at (e.g., monitorin 624 within spill are ble) c operational status ribe real-time statu ocation which is under the will be system processes.	N/A ad Elevations st foot n to describe the ng well located ea). IRPIMS. of the feature. s. ndergoing can be used by It does not	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus) collectionPointLocation (VARCHAR2 (50))	Fi))	Name of the Descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling (each operator affect the second content of the	De de feature. providing any add ocation in text form theast of building DSFIE Feature Tall description of the atte is used to describing the type of leagh, bh= borehole, or defined work are or for user-defined ubject item's data	± 1 ft Distances an Neare Neare Scription litional information at (e.g., monitorin 624 within spill are ble] coperational status ribe real-time statu ocation which is used where well).	N/A ad Elevations st foot n to describe the ng well located ea). IRPIMS. of the feature. s. ndergoing can be used by It does not	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus collectionPointLocation (VARCHAR2 (50)) userFlag (String 254)	Fi))	Name of the Descriptor sampling leads to the Name of the Descriptor sampling leads to the operator affect the substitute of the substitute	De providing any add pocation in text form theast of building and DSFIE Feature Tall description of the providing the type of leaghth of the providing the type of leaghth or for user-defined work are provided to the provided t	± 1 ft Distances an Neare Neare Scription Itional information at (e.g., monitorin 624 within spill are ble] coperational status ribe real-time statu ocation which is un, wl=well). ea. This attribute of system processes. integrity and should be real-time should be system processes.	N/A In to describe the ng well located ea). IRPIMS. In of the feature. In the second of th	
Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)) status (Enumeration: codeStatus) collectionPointLocation (VARCHAR2 (50))	Fi))	Name of the Descriptor sampling to 10 feet nor [Source: SI A temporal This attribut Code descriptor sampling (and An operator the operator affect the subscriminal description of the subscriminal description of the operator affect the subscription of the operator affect the operator affect the operator affect the subscription of the operator affect the operator aff	De providing any add pocation in text form theast of building and DSFIE Feature Tall description of the providing the type of leaghth of the providing the type of leaghth or for user-defined work are provided to the provided t	± 1 ft Distances an Neare Scription litional information at (e.g., monitorin 624 within spill are ble) c operational status ribe real-time statu ocation which is under the will be system processes.	N/A In to describe the ng well located ea). IRPIMS. In of the feature. In the second of th	

5.7.11. Shoreline

Definition: The boundary where land meets the edge of a large body of fresh or salt water.				
Feature Group	Environmental			
Feature Class Name	Shoreline			
Feature Type	Polygon			
CADD Standard Requirements				
Layer/Level	Description			
C-DRED-OHWM-	Ordinary high water marks			

C-TOPO-SHOR-	Shorelines, land features, and references				
H-MNST-GWTR-	Ground water				
H-MNST-SWTR-	Surface water				
S-GRDL-WATR-	Water surface				
V-SITE-EWAT-	Water features				
V-SITE-WATR-	Water features				
V-TOPO-SHOR-	Shorelines, land	features, and refere	ences		
	Color Linetype Line Weight Symbol				
AutoDesk Standards	1		1 MM	•	
MicroStation Standards	3	Continuous	7	User Defined	
Sensitivity	Restricted		•		
	AIXM	GeoBorderExten	sion	Extension	
Equivalent Standards	FGDC	Shoreline		Extension	
•	SDSFIE	shoreline			
Documentation and	NI	•			
Submission Requirements	None				
Related Features					
Data Capture Rules: Collect	a closed polygon a	t its greatest horiz	ontal extents coinc	ident with	
land/water interface. Close the	polygon at arbitra	ry points ensuring	sufficient coverag	e of the water	
body.				3	
body. Monumentation	No monumentati				
Monumentation	No monumentati			tical	
-	No monumentati	on required.	Ver		
Monumentation Survey Point Location	No monumentati Hori: N	on required. zontal /A	Ver N. Ver	tical	
Monumentation Survey Point Location Accuracy Requirements (in	No monumentati Hori: N	on required.	Ver N	tical /A tical Ellipsoidal	
Monumentation Survey Point Location	No monumentati Horiz N Horiz	on required. zontal /A	Ver Note Ver Orthometric ± 5 ft	tical /A tical Ellipsoidal N/A	
Monumentation Survey Point Location Accuracy Requirements (in feet)	No monumentati Horiz N Horiz ± Geographic	zontal zontal f ft Coordinates	Ver Note Ver Orthometric ± 5 ft	tical /A tical Ellipsoidal	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution	No monumentati Horiz N Horiz ± Geographic	on required. zontal /A zontal 5 ft	Ver N. Ver Ver Orthometric ± 5 ft Distances and Distances Distance	tical /A tical Ellipsoidal N/A	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes	No monumentati Horiz N Horiz ± Geographic	zontal 5 ft Coordinates h of arc second	Ver Note Note Orthometric ± 5 ft Distances an Neare	tical /A tical Ellipsoidal N/A d Elevations	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype)	No monumentati Hori: N Hori: ± Geographic Five hundredti	on required. zontal /A zontal 5 ft Coordinates h of arc second	Ver Nover Orthometric ± 5 ft Distances an Neare	tical /A tical Ellipsoidal N/A d Elevations	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	No monumentati Horiz N Horiz ± Geographic Five hundredt	zontal /A zontal 5 ft Coordinates h of arc second Dealy used name for the	Ver Note Note Orthometric ± 5 ft Distances an Neare scription the shoreline.	tical /A tical Ellipsoidal N/A d Elevations	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255)	No monumentati Horiz N Horiz ± : Geographic Five hundredti A common	zontal /A zontal 5 ft Coordinates h of arc second Dealy used name for tescription for the sh	Ver Note Orthometric ± 5 ft Distances an Neare scription the shoreline. oreline.	tical /A tical Ellipsoidal N/A d Elevations st foot	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50))	No monumentati Horiz N Horiz ± Geographic Five hundredt A common A local des	zontal /A zontal 5 ft Coordinates h of arc second Denly used name for the scription for the shall description of the	Ver Note Orthometric ± 5 ft Distances an Neare scription the shoreline. oreline. coperational status	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature.	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes	No monumentati Horiz N Horiz ± : Geographic Five hundredt A common A common A local des A tempora This attrib	on required. zontal /A zontal 5 ft Coordinates h of arc second Dealy used name for the scription for the shall description of the ute is used to description.	Ver Note Note Orthometric ± 5 ft Distances an Neare scription the shoreline. oreline. operational status ribe real-time statu	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s.	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) shorelineType ((Enumeration))	No monumentati Horiz N Horiz ± : Geographic Five hundredt A common A common A local des A tempora This attrib	zontal /A zontal 5 ft Coordinates h of arc second Denly used name for the scription for the shall description of the	Ver Note Note Orthometric ± 5 ft Distances an Neare scription the shoreline. oreline. operational status ribe real-time statu	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s.	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) shorelineType ((Enumeration))	No monumentati Horiz N Horiz ± : Geographic Five hundredti A common A local deta S A tempora This attribution: Discrimina	zontal Zontal Zontal S ft Coordinates h of arc second Dealy used name for the secription for the shall description of the ute is used to descriptor - A value indicator - A value in	Ver Note Orthometric ± 5 ft Distances an Neare scription the shoreline. The operational status ribe real-time status atting the type or keep the series of the status atting the type or keep the status atting the type of keep the status atting the type the status atting the type of keep the status atting the type the status atting the type the status atting the typ	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s. ind of shoreline.	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) shorelineType ((Enumeration))	No monumentati Horiz N Horiz ± Geographic Five hundredt A common A local des S) A tempora This attribution: Discrimina	zontal /A zontal /S ft Coordinates h of arc second Dealy used name for the scription for the shall description of the sute is used to description - A value indices or defined work are	Ver Note Orthometric ± 5 ft Distances an Neare Scription the shoreline. The operational status ribe real-time status rating the type or keep.	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s. ind of shoreline.	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) shorelineType ((Enumeration))	No monumentati Horiz N Horiz ± : Geographic Five hundredt A common A common A local des S A tempora This attribution: Discrimination: An operato the operato	zontal /A zontal /5 ft Coordinates h of arc second Dealy used name for the scription for the shall description of the ute is used to description of the ute is used to description or defined work are for for user-defined	Ver Note Orthometric ± 5 ft Distances an Neare scription the shoreline. The operational status rating the type or keeps. This attribute consistency system processes.	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s. ind of shoreline. can be used by It does not	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) shorelineType ((Enumeration))	No monumentati Horiz N Horiz ± : Geographic Five hundredti A common A local deta S) A tempora This attribution: Discrimination: An operator the operator affect the s	zontal /A zontal /S zontal /S zontal /S zontal S ft Coordinates h of arc second Denly used name for the secretion for the shall description of the sute is used to description of the secretion	Ver Note Orthometric ± 5 ft Distances an Neare scription the shoreline. The operational status rating the type or keeps. This attribute consistency system processes.	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s. ind of shoreline. can be used by It does not	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) shorelineType ((Enumeration) CodeShorelineType) userFlag (String 254)	No monumentati Horiz N Horiz Geographic Five hundredti A common A local det S A tempora This attribution: Discrimination: An operate affect the s store the st	zontal /A zontal /A zontal /5 ft Coordinates h of arc second Dealy used name for the secription for the shall description of the sute is used to description of the secription of the secreption of the secreptio	Ver Note Orthometric ± 5 ft Distances an Neare scription the shoreline. The operational status ribe real-time status rating the type or keeps. This attribute of system processes, integrity and should	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s. ind of shoreline. can be used by It does not d not be used to	
Monumentation Survey Point Location Accuracy Requirements (in feet) Resolution Feature Attributes Attribute (Datatype) name (VARCHAR2 (50)) description (VARCHAR2 (255) status (Enumeration: codeStatus) shorelineType ((Enumeration))	No monumentati Horiz N Horiz Geographic Five hundredt A common A local des S) A tempora This attribution: Discrimina An operato affect the se store the se Discrimina	zontal /A zontal /S zontal /S zontal /S zontal S ft Coordinates h of arc second Denly used name for the secretion for the shall description of the sute is used to description of the secretion	Ver Note Orthometric ± 5 ft Distances an Neare scription the shoreline. The operational status ribe real-time status rating the type or keeps. This attribute of system processes, integrity and should	tical /A tical Ellipsoidal N/A d Elevations st foot of the feature. s. ind of shoreline. can be used by It does not d not be used to	

5.7.12. Wetland

Definition: Transitional lands between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. The soils are predominantly saturated with water and the plants and animals that live there are specialized for this ecosystem.

Feature Group	Environmental
Feature Class Name	Wetland

Feature Type	Polygon					
CADD Standard Requirements						
Layer/Level	Description					
V-TOPO-WETL	Wetland					
	Color	Linetype	Line Weight	Symbol		
AutoDesk Standards	2	Continuous	1 MM	User Defined		
MicroStation Standards	4	User Defined				
Sensitivity	Restricted					
	AIXM	AirspaceExtension	on	Extension		
Equivalent Standards	FGDC	FGDC Wetland Extensi				
	SDSFIE	Wetland_area				
Documentation and	None					
Submission Requirements	None					
Related Features		_				

Data Capture Rules: Collect a closed polygon to establish the boundary between wetlands and uplands (or non-wetlands). There are two delineation procedures developed at the federal level and several states have their own wetland delineation procedures. Contact federal/state/local environmental agency for assistance.

environmental agency for assist	tance.					
Monumentation	No n	No monumentation required.				
Common Daint I and in		Horizontal	Vert	tical		
Survey Point Location		N/A	N/	'A		
A D		Havigantal	Vert	tical		
Accuracy Requirements (in		Horizontal	Orthometric	Ellipsoidal		
feet)		± 5 ft	± 10 ft	N/A		
Resolution	(Geographic Coordinates	Distances an	d Elevations		
Resolution	Fi	ve hundredth of arc second	Nearest foot			
Feature Attributes						
Attribute (Datatype)	Attribute (Datatype) De		scription			
name (VARCHAR2 (50))		Any commonly used name for	or the wetland.			
description (VARCHAR2 (255)))	A description of the wetland.				
status (Enumeration: codeStatus	s)	A temporal description of the operational status of the feature.				
*		This attribute is used to descr	ibe real-time status	S.		
featureType (String 16)	A descriptor of how the wetland is depicted graphically.			phically.		
userFlag (String 254) An operator-defined work area. This attribute can be us		an be used by				
		the operator for user-defined system processes. It does not				
		affect the subject item's data integrity and should not be used to				
	store the subject item's data.					
Alternative (Integer2)		Discriminator used to tie feat	ures of a plan or po	oroposal		
		together into a version.				

5.8. Group: GEOSPATIAL

5.8.1. Airport Control Point – Runway Intersection Point

such as the Primary and Secondary Airport Control Stations (PACS/SACS), Runway Intersections, Airport Elevation, centerline perpendicular points for NAVAIDs, Stopway Ends, Profile Points, and the Touchdown Zone Elevation (TDZE). Feature Group Geospatial Feature Group Geospatial Feature Class Name AirportControlPoint Feature Type Point CADD Standard Requirements Layer/Level Description C-TOPO-RNYE- Runway centerline elevation point Color Linetype Line Weight Symbol AutoDesk Standards 6 Continuous 7 User Defined Sensitivity Restricted AIXM SurveyControlPointExtension Extension Equivalent Standards FGDC AirportControlPoint SDSFIE Control_point None Documentation and Submission Requirements Related Features Data Capture Rules: Collect the point where the centerlines of two, or more, runways intersect. Monumentation No monumentation required. Accuracy Requirements (in feet) Resolution Horizontal Vertical N/A N/A Accuracy Requirements (in feet) Equivalent Standards Distances and Elevations Hundredth of arc second Nearest one foot Feature Attributes Attribute (Datatype) Description Permanent point identifier assigned by NGS to PACS and SACS [Source: NGS] PointType (Enumeration: Contains the allowable values of a point type used by the	Definition: Use this feature for		airfield possessing sig				
the Touchdown Zone Elevation (TDZE). Feature Group Geospatial Feature Class Name AirportControlPoint Feature Type Point CADD Standard Requirements Layer/Level C-TOPO-RNYE- Runway centerline elevation point Color Linetype Line Weight Symbol AutoDesk Standards 6 Continuous 7 User Defined Sensitivity Restricted AIXM SurveyControlPointExtension Equivalent Standards FGDC AirportControlPoint SDSFIE Control_point None Related Features Data Capture Rules: Collect the point where the centerlines of two, or more, runways intersect. Monumentation No monumentation required. Horizontal Vertical N/A Accuracy Requirements (in feet) Resolution Resolution Feature Attributes Attribute (Datatype) PermanentId (String 6) Permanent point identifier assigned by NGS to PACS and SACS [Source: NGS] Point Type (Enumeration: Contains the allowable values of a point type used by the							
Feature Class Name		•	oints for NAVAIDs, S	topway Ends, Profi	le Points, and		
Feature Class Name							
Point CADD Standard Requirements Layer/Level Description							
CADD Standard Requirements Layer/Level Description		_	rolPoint				
C-TOPO-RNYE- Runway centerline elevation point	V 1		Point				
C-TOPO-RNYE- Runway centerline elevation point Color Linetype Line Weight Symbol		ts					
Color Linetype Line Weight Symbol				ription			
AutoDesk Standards	C-TOPO-RNYE-	· ·	terline elevation point				
MicroStation Standards S Continuous 7 User Defined		Color	Linetype	Line Weight	Symbol		
Sensitivity Restricted AIXM SurveyControlPointExtension Extension			Continuous	1	User Defined		
AIXM SurveyControlPointExtension Extension	MicroStation Standards	•	Continuous	7	esci Deimed		
FGDC AirportControlPoint	Sensitivity	Restricted					
SDSFIE Control_point		AIXM	2		Extension		
None None None	Equivalent Standards	FGDC	AirportControlF	Point			
None None		SDSFIE	Control_point				
Related Features	Documentation and	None					
Data Capture Rules: Collect the point where the centerlines of two, or more, runways intersect. Monumentation	•	None					
	Related Features						
	Data Capture Rules: Collect to			o, or more, runways	intersect.		
N/A N/A	Monumentation	No monume	ntation required.				
	Survey Point Location						
Accuracy Requirements (in feet)HorizontalOrthometricEllipsoidal $\pm 3 \text{ ft}$ $\pm 0.25 \text{ ft}$ $\pm 0.20 \text{ ft}$ ResolutionGeographic CoordinatesDistances and ElevationsHundredth of arc secondNearest one footFeature AttributesAttribute (Datatype)DescriptionpermanentId (String 6)Permanent point identifier assigned by NGS to PACS and SACS [Source: NGS]pointType (Enumeration:Contains the allowable values of a point type used by the	Survey 1 omt Escation		N/A				
GrthometricEllipsoidal $\pm 3 \text{ ft}$ $\pm 0.25 \text{ ft}$ $\pm 0.20 \text{ ft}$ ResolutionGeographic CoordinatesDistances and ElevationsHundredth of arc secondNearest one footFeature AttributesAttribute (Datatype)DescriptionpermanentId (String 6)Permanent point identifier assigned by NGS to PACS and SACS [Source: NGS]pointType (Enumeration:Contains the allowable values of a point type used by the	Accuracy Paguiraments (in						
Resolution Coordinates Distances and Elevations	· -			Orthometric	Ellipsoidal		
Hundredth of arc second Nearest one foot	rect)						
Hundredth of arc second Nearest one foot	Posalution	Geogra	phic Coordinates	Distances ar	nd Elevations		
Attribute (Datatype) Description permanentId (String 6) Permanent point identifier assigned by NGS to PACS and SACS [Source: NGS] pointType (Enumeration: Contains the allowable values of a point type used by the	Resolution	Hundre	ndredth of arc second Nearest one foot		one foot		
permanentId (String 6) Permanent point identifier assigned by NGS to PACS and SACS [Source: NGS] pointType (Enumeration: Contains the allowable values of a point type used by the	Feature Attributes						
SACS [Source: NGS] pointType (Enumeration: Contains the allowable values of a point type used by the	Attribute (Datatype)						
pointType (Enumeration: Contains the allowable values of a point type used by the	permanentId (String 6)	Perma	nent point identifier as	ssigned by NGS to	PACS and		
^ '^							
Control Doint Town					•		
	CodePointType)	ControlPoint feature. The point types may be supplementally					
		provided as subtypes of ControlPoints for ease of use and					
		clarification.					
name (String 50) Any commonly used name for the control point.							
monumentType (Enumeration: The type of monument as defined by the Corps of Engineers		-		fined by the Corps	of Engineers		
CodeMonumentType) EM 110-1-1002.							
description (VARCHAR2 (255)) The monument description.							
status (Enumeration: codeStatus) A temporal description of the operational status of the feature.	L . 4.4 (E	*					
This attribute is used to describe real-time status.	status (Enumeration: codeStatt						

ellipsoidHeight (Real)	The height above the reference ellipsoid, measured along the ellipsoidal outer normal through the point in question. Also called the geodetic height. [Source: NGS]
yearOfSurvey (Number 4)	The year of the most recent runway end survey used to compute the ARP
dateRecovered (Date)	The date the monument was last field recovered. Format for date is YYYYMMDD (i.e. September 15, 1994 = 19940915).
recoveredCondition	The condition and type of the marker (witness post) used to
(String 30)	identify the location of the monument.
fieldBook (String 254)	The field book.
globalPositionSystemSuitable	A Boolean indicating GPS suitability.
(Boolean)	
coordinateZone (Enumeration:	The State Plane Coordinate System Code for where the airport
CodeStatePlane)	is primarily located.
stampedDesignation (String 50)	The designation stamped onto the monument.
epoch (String 10)	Survey epoch used to establish the control point.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.8.2. Airport Control Point – Airport Elevation

Definition: Use this feature for points on the airfield possessing significant geographic importance, such as the Primary and Secondary Airport Control Stations (PACS/SACS), Runway Intersections, Airport Elevation, centerline perpendicular points for NAVAIDs, Stopway Ends, Profile Points, and the Touchdown Zone Elevation (TDZE)

the Touchdown Zone Elevation	(TDZE).				
Feature Group	Geospatial				
Feature Class Name	AirportControlPo	AirportControlPoint			
Feature Type	Point				
CADD Standard Requiremen	its				
Layer/Level		Descr	iption		
C-TOPO-RNYE-	Runway centerlin	ne elevation point			
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	6	Continuous	1	Hear Dafinad	
MicroStation Standards	5	Continuous	7	User Defined	
Sensitivity	Restricted				
	AIXM AirportControlPoint				
Equivalent Standards	FGDC SurveyControlPointExtension (Extension)			ension)	
	SDSFIE	Control_point			
Documentation and	None				
Submission Requirements	None				
Related Features					
Data Capture Rules: Calculate	te the Airport Eleve	ation using the run	way profile data. '	The Airport	
Elevation is the highest point all	long all usable run	ways.			
Monumentation	Filled in by surve	ey group only			
Survey Point Legation	Horiz	ontal	Vertical		
Survey Point Location	N/A N		N/	J/A	

A D : 4 (:	II o win o w 4 o l	Vertical			
Accuracy Requirements (in feet)	Horizontal	Orthometric	Ellipsoidal		
leet)	± 1 ft	± 0.25 ft	± 0.20 ft		
Resolution	Geographic Coordinates	Geographic Coordinates Distances and Elevation			
Resolution	Hundredth of arc second	Nearest one foot			
Feature Attributes					
Attribute (Datatype)		scription			
permanentId (String 6)	Permanent point identifier as	signed by NGS to	PACS and		
	SACS [Source: NGS]	SACS [Source: NGS]			
pointType (Enumeration:	Contains the allowable value	s of a point type us	sed by the		
CodePointType)	ControlPoint feature. The poi	int types may be su	ipplementally		
	provided as subtypes of Cont	rolPoints for ease	of use and		
	clarification.				
name (VARCHAR2 (50))	Any commonly used name for	or the control point			
monumentType (Enumeration:	The type of monument as def	fined by the Corps	of Engineers		
CodeMonumentType)	EM 110-1-1002.				
description (VARCHAR2 (255	(5)) The monument description.				
status (Enumeration: codeStatu					
	This attribute is used to descr	This attribute is used to describe real-time status.			
ellipsoidHeight (Real)		The height above the reference ellipsoid, measured along the			
	•	ellipsoidal outer normal through the point in question. Also			
	called the geodetic height. [S	Source: NGS]			
yearOfSurvey (Number 4)	The year of the most recent r	unway end survey	used to compute		
	the ARP	The date the monument was last field recovered. Format for			
dateRecovered (Date)					
		date is YYYYMMDD (i.e. September 15, 1994 = 19940915).			
recoveredCondition	The condition and type of the		oost) used to		
(String 30)	identify the location of the m	onument.			
fieldBook (String 254)	The field book.				
globalPositionSystemSuitable	A Boolean indicating GPS su	A Boolean indicating GPS suitability.			
(Boolean)					
coordinateZone (Enumeration:	The State Plane Coordinate S	system Code for w	here the airport		
CodeStatePlane)		is primarily located.			
stampedDesignation (String 50					
epoch (String 10)	Survey epoch used to establish				
userFlag (String 254)	_	An operator-defined work area. This attribute can be used by			
		the operator for user-defined system processes. It does not			
		affect the subject item's data integrity and should not be used to			
	store the subject item's data.				
Alternative (Integer2)		Discriminator used to tie features of a plan or poroposal			
	together into a version.				

5.8.3. Airport Control Point – Centerline Perpendicular Points

Definition: Use this feature for points on the airfield possessing significant geographic importance, such as the Primary and Secondary Airport Control Stations (PACS/SACS), Runway Intersections, Airport Elevation, centerline perpendicular points for NAVAIDs, Stopway Ends, Profile Points, and the Touchdown Zone Elevation (TDZE).

Feature Group	Geospatial
Feature Class Name	AirportControlPoint
Feature Type	3D Point

CADD Standard Requiremen						
Layer/Level C-TOPO-RNYE-	Description Runway centerline elevation point					
C-TOPO-RNYE-	• •		T : XX7-:-1-4	C		
A 4 - D 1 - C4 1 1 -		Linetype	Line Weight	Symbol		
AutoDesk Standards MicroStation Standards	6	Continuous	1	User Defined		
	5 Destricted		7			
Sensitivity	Restricted	T				
Faringlant Standards	AIXM					
Equivalent Standards	FGDC	C . 1				
Documentation and	SDSFIE	Control_point				
	None					
Submission Requirements Related Features						
Data Capture Rules: Collect	stad maint along	munuan contonlino	namandiaulan ta	the leastion		
required NAVAIDs. ILS, MLS,						
to the appropriate feature class			ms require ims me	гизигетет теје		
Monumentation	Filled in by surv					
		izontal	Vor	tical		
Survey Point Location		N/A		/A		
				tical		
Accuracy Requirements (in	Hor	izontal	Orthometric	Ellipsoidal		
feet)	4	: 1 ft	± 0.25ft	± 0.25 ft		
		c Coordinates		d Elevations		
Resolution		of arc second	<u> </u>	th of a foot		
Feature Attributes	Tunarean	of the second	r vourest ter	atil 01 a 100t		
Attribute (Datatype)		Des	cription			
permanentId (String 6)	Permanen	t point identifier ass		PACS and		
permanentia (String 0)		ource: NGS]	igned by 1105 to 1	TIOS una		
pointType (Enumeration:			of a point type us	ed by the		
CodePointType)		Contains the allowable values of a point type used by the ControlPoint feature. The point types may be supplementally				
court amorppo,						
		provided as subtypes of ControlPoints for ease of use and clarification.				
name (VARCHAR2 (50))		nonly used name for	r the control point.			
monumentType (Enumeration:		of monument as defi				
	J 1					
	EM 110-1			or Engineers		
CodeMonumentType) description (VARCHAR2 (255	EM 110-1	-1002.				
CodeMonumentType)	The monu	-1002.				
CodeMonumentType) description (VARCHAR2 (255	The monutes A tempora	-1002.	operational status	of the feature.		
CodeMonumentType) description (VARCHAR2 (255	The monutes) A tempora This attrib	-1002. ment description. al description of the	operational status be real-time status	of the feature.		
CodeMonumentType) description (VARCHAR2 (255) status (Enumeration: codeStatu	The monutes) A tempora This attrib The heigh	-1002. ment description. al description of the oute is used to descri	operational status be real-time status e ellipsoid, measu	of the feature.		
CodeMonumentType) description (VARCHAR2 (255) status (Enumeration: codeStatu	The monutes of the mo	-1002. ment description. al description of the oute is used to descript above the reference	operational status be real-time status e ellipsoid, measu gh the point in que	of the feature.		
CodeMonumentType) description (VARCHAR2 (255) status (Enumeration: codeStatu	The monutes A temporary This attributes The height ellipsoidal called the	-1002. ment description. al description of the oute is used to descript above the reference outer normal throu	operational status be real-time status e ellipsoid, measu gh the point in que ource: NGS]	of the feature. s. red along the estion. Also		
CodeMonumentType) description (VARCHAR2 (255 status (Enumeration: codeStatu ellipsoidHeight (Real)	The monutary of the ARP The monutary of the height ellipsoidal called the the ARP The date to the monutary of the ARP	-1002. Iment description. In description of the oute is used to descript above the reference outer normal througeodetic height. [So of the most recent runder the monument was less than the monument was less tha	operational status be real-time status e ellipsoid, measu gh the point in que ource: NGS] inway end survey	of the feature. S. red along the estion. Also used to compute		
CodeMonumentType) description (VARCHAR2 (255 status (Enumeration: codeStatu ellipsoidHeight (Real) yearOfSurvey (Number 4) dateRecovered (Date)	The monutes of the ARP The date is YY	-1002. Iment description. In description of the oute is used to descript above the reference of outer normal througeodetic height. [So of the most recent runder the monument was lawyymmod (i.e. Se	operational status be real-time status e ellipsoid, measu gh the point in que ource: NGS] inway end survey ast field recovered eptember 15, 1994	of the feature. The street along the estion. Also sused to compute the computer. Format for = 19940915).		
CodeMonumentType) description (VARCHAR2 (255 status (Enumeration: codeStatu ellipsoidHeight (Real) yearOfSurvey (Number 4) dateRecovered (Date) recoveredCondition	The monutes A tempora This attributes A tempora This attributes A tempora This attributes A tempora Called the The year of the ARP The date is YY The conditions.	ament description. In description of the oute is used to descript above the reference outer normal througeodetic height. [So of the most recent ruble monument was lawyymmod (i.e. Section and type of the	operational status be real-time status e ellipsoid, measu gh the point in que ource: NGS] inway end survey ast field recovered eptember 15, 1994 marker (witness p	of the feature. The street along the estion. Also sused to compute the computer. Format for = 19940915).		
CodeMonumentType) description (VARCHAR2 (255 status (Enumeration: codeStatu ellipsoidHeight (Real) yearOfSurvey (Number 4) dateRecovered (Date)	The monutes A tempora This attributes A tempora This attributes A tempora This attributes A tempora Called the The year of the ARP The date is YY The conditions.	and description. al description of the oute is used to descript above the reference outer normal througeodetic height. [So of the most recent runder the monument was lawyymmod (i.e. Section and type of the most of the most recent runder the location of the most recent runder the monument was lawyymmod (i.e. Section and type of the me location of the most recent runder the location of the loca	operational status be real-time status e ellipsoid, measu gh the point in que ource: NGS] inway end survey ast field recovered eptember 15, 1994 marker (witness p	of the feature. The street along the estion. Also sused to compute the computer. Format for = 19940915).		

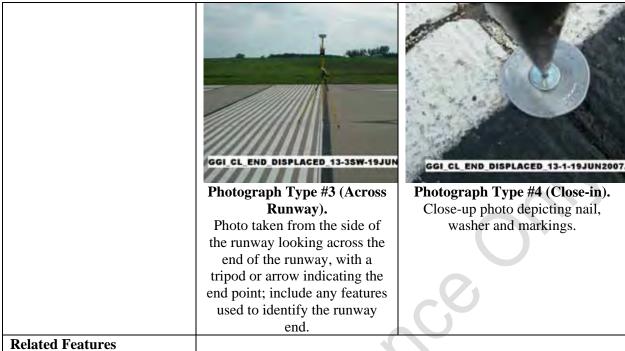
(Boolean)					
coordinateZone (Enumeration:	The State Plane Coordinate System Code for where the airport				
CodeStatePlane)	is primarily located.				
stampedDesignation (String 50)	The designation stamped onto the monument.				
epoch (String 10)	Survey epoch used to establish the control point.				
userFlag (String 254)	An operator-defined work area. This attribute can be used by				
	the operator for user-defined system processes. It does not				
	affect the subject item's data integrity and should not be used to				
	store the subject item's data.				
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal				
	together into a version.				

5.8.4. Airport Control Point – Displaced Threshold Point

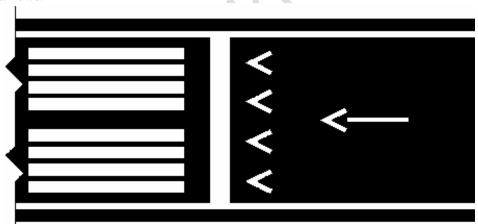
Definition: Use this feature for points on the airfield possessing significant geographic importance, such as the Displaced Threshold, Primary and Secondary Airport Control Stations (PACS/SACS), Runway Intersections, Airport Elevation, centerline perpendicular points for NAVAIDs, Stopway Ends. Profile Points, and the Touchdown Zone Elevation (TDZE).

Runway Intersections, Airport I	•	• •		, , , , , , , , , , , , , , , , , , ,		
Ends, Profile Points, and the To			•	s, Btop way		
Feature Group	Geospatial					
Feature Class Name	AirportControlPo	oint				
Feature Type	Point					
CADD Standard Requiremen	ts					
Layer/Level		Desc	cription			
C-RUNW-DISP-	Runway centerlin	ne elevation poin	nt			
	Color	Linetype	Line Weight	Symbol		
AutoDesk Standards	6	Continuous	1	User Defined		
MicroStation Standards	5	Continuous	7	Osei Deimed		
Sensitivity	Restricted					
	AIXM					
Equivalent Standards	FGDC					
	SDSFIE	Control_point				
Documentation and	In addition to the	requirements of	f paragraphs 1.6.2 and	d 1.6.3,		
Submission Requirements	document the selected location using four digital photographs.					
O/Silili)	GGI CL END DIS	PLACED 13-2-19JUN	GGI CL END DISPLACE	D_13-35E-19JUN2007.		
	Photograph T	'vne #1 (Eve	Photograph Type	#2 (Approach).		
	Leve		Photo showing tripe			
	Photo taken from mark, showing a the mark abou	om above the an area around	in foreground and backgro	approach in the		

diameter.



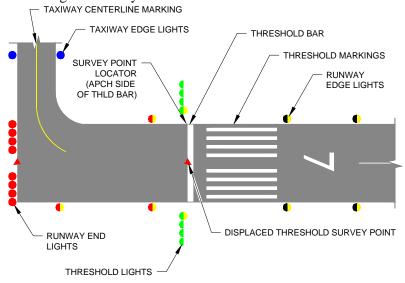
Data Capture Rule: Establish the displaced threshold on the runway centerline a specified distance from the runway end. The area between the runway end and the displaced threshold should be marked with white arrows.



When the ends of the runway surface have been determined, mark the positions using a nail and washer with the setting company's name and year inscribed, chisel square, or paint if possible with a distinctive inscription to ensure future identification.			
Paved Runway			
Survey Point Locator is the approach side of threshold bar or trim line connecting outboard threshold lights. Supporting features include: • Threshold lights near threshold			
 Runway end lights sited at another location on approach side of threshold lights White or amber runway edge lights, not blue taxiway lights, between threshold and end of runway Runway number near threshold 			

White displaced threshold markings on approach side of threshold

Runway side stripe on Precision Instrument Runways Comments: Use **caution**, especially on smaller, poorly marked airports, not to confuse a displaced threshold with the end of a runway with an aligned taxiway.



NOTES:

- 1. THIS GRAPHIC IS NOT TO SCALE. FEATURES ARE SYMBOLIZED AND INTENDED ILLUSTRATION PURPOSES ONLY.
- 2. RUNWAY/STOPWAY SURVEYS SHOULD BE DISCUSSED WITH APPROPRIATE AIRPORT AUTHORITIES.
- 3. SURVEY POINT LOCATOR:
 APPROACH SIDE OF THRESHOLD BAR
- 4 SUPPORTING FEATURES
 - RUNWAY END LIGHTS NEAR END OF PAVEMENT
- THRESHOLD LIGHTS NEAR THRESHOLD BAR
- RUNWAY NUMBER AND THRESHOLD MARKINGS NEAR THRESHOLD BAR
- RUNWAY EDGE LIGHTS BETWEEN THRESHOLD AND END OF PAVEMENT
- 5. COMMENTS:
- NONSTANDARD MARKINGS FOR DISPLACED THRESHOLD
- THRESHOLD LIGHTS MAY NOT BE PRECISELY ALIGNED WITH APPROACH SIDE OF THRESHOLD BAR
- DO NOT CONFUSE THIS SITUTION WITH A RUNWAY END AND ALIGNED **TAXIWAY**

Unpaved Runway

Survey Point Locator is the trim line connecting outboard threshold lights or the trim Line connecting outboard threshold day markers. Supporting features include

- The runway end lights sited at another location on approach side of threshold lights (if runway lighted)
- The runway end day markers located at another location on approach side of threshold (if runway unlighted)

Comments: Displaced thresholds on unpaved runways are unusual. If this situation is suspected, verify that the runway end is identifiable at another location on the approach side of the threshold.

A B : 4 (:	Harizantal	Vertical				
Accuracy Requirements (in feet)	Horizontal	Orthometric	Ellipsoidal			
ieet)	± 1 ft	± 0.25 ft	± 0.20 ft			
Resolution	Geographic Coordinates	Geographic Coordinates Distances and Elevation				
Resolution	Hundredth of arc second	Nearest tenth of a foot				
Feature Attributes						
Attribute (Datatype)		scription				
permanentId (String 6)	Permanent point identifier as	signed by NGS to	PACS and			
	SACS [Source: NGS]	SACS [Source: NGS]				
pointType (Enumeration:	Contains the allowable values	s of a point type us	sed by the			
CodePointType)	ControlPoint feature. The poi					
	provided as subtypes of Cont	rolPoints for ease	of use and			
	clarification.					
name (VARCHAR2 (50))	Any commonly used name for					
monumentType (Enumeration:	The type of monument as def	ined by the Corps	of Engineers			
CodeMonumentType)	EM 110-1-1002.					
description (VARCHAR2 (255	(i) The monument description.					
status (Enumeration: codeStatu	tatus) A temporal description of the operational status of the					
	This attribute is used to descr	ibe real-time statu	S.			
ellipsoidHeight (Real)	The height above the reference	The height above the reference ellipsoid, measured along the				
	ellipsoidal outer normal throu	ellipsoidal outer normal through the point in question. Also				
	called the geodetic height. [S	Source: NGS]				
yearOfSurvey (Number 4)	The year of the most recent re	unway end survey	used to compute			
	the ARP					
dateRecovered (Date)	The date the monument was l					
		date is YYYYMMDD (i.e. September 15, 1994 = 19940915).				
recoveredCondition	The condition and type of the	_	oost) used to			
(String 30)	identify the location of the m	onument.				
fieldBook (String 254)	The field book.					
globalPositionSystemSuitable	A Boolean indicating GPS su	A Boolean indicating GPS suitability.				
(Boolean)						
coordinateZone (Enumeration:	The State Plane Coordinate S	ystem Code for w	here the airport			
CodeStatePlane)	is primarily located.					
stampedDesignation (String 50						
epoch (String 10)	Survey epoch used to establish					
userFlag (String 254)	An operator-defined work are		· · · · · · · · · · · · · · · · · · ·			
	_	the operator for user-defined system processes. It does not				
	_	affect the subject item's data integrity and should not be used to				
	store the subject item's data.					
Alternative (Integer2)	Discriminator used to tie feat	ures of a plan or p	oroposal			
	together into a version.					

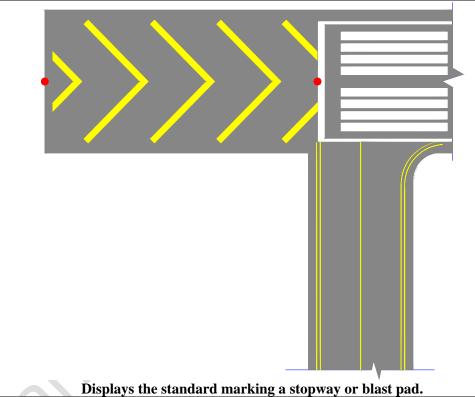
5.8.5. Airport Control Point – Stopway Ends

Definition: Use this feature for points on the airfield possessing significant geographic importance, such as the Primary and Secondary Airport Control Stations (PACS/SACS), Runway Intersections, Airport Elevation, centerline perpendicular points for NAVAIDs, Stopway Ends, Profile Points, and the Touchdown Zone Elevation (TDZE).

Feature Group	Geospatial
Feature Class Name	AirportControlPoint
Feature Type	Point

CADD Standard Requirements						
Layer/Level	Description					
C-TOPO-RNYE-	Runway centerli	ne elevation point				
	Color	Color Linetype Line Weight Symbol				
AutoDesk Standards	6	Continuous	1	User Defined		
MicroStation Standards	5	Continuous	7	Osci Deilieu		
Sensitivity	Restricted					
	AIXM					
Equivalent Standards	FGDC					
	SDSFIE	Control_point				
Documentation and	None					
Submission Requirements	None					
Related Features		·				

Data Capture Rules: Collect point at physical end of stopway along extended centerline of runway.



Monumentation	The selected survey point must be marked and documented for verification by NGS and inclusion in the Airports GIS database. When the ends of the runway surface have been determined, mark the positions using a nail and washer, chisel square, or paint if possible with a distinctive inscription to ensure future identification. Mark the survey point with a nail and washer inscribed with the setting company's name and year.					
		-	Horizontal			Vertical
	Concrete Stopway		Survey Point Loca the trim line. Supporter stop chevrons. The stop the runway center at least as wide as	porting I oway end line exte	Features ir d survey p nded. Stop	nclude stopway ooint must be on oways must be
			Survey Point Loca	tor is th	e limit of	construction or
Survey Point Location	_	107	the trim line at firs			
		ed/Non-	Features are the st			
	conc	rete	end survey point nextended. Stopway			•
			runway but may b	7	oc at icast	as wide as the
			Survey Point Loca		e trim line	at an apparent
	Unp	aved	runway/stopway s			
	on _p		survey points must extended.	t be on t	he runway	centerline
					Vert	ical
Accuracy Requirements (in	Hor		zontal	Ortho	metric	Ellipsoidal
feet)			1 ft		.25 ft	± 0.20 ft
Resolution			Coordinates			d Elevations
Feature Attributes		Hundredth	of arc second	N	earest tent	th of a foot
Attribute (Datatype)			Desc	cription		
permanentId (String 6)		Permanent	ent point identifier assigned by NGS to PACS and			
	10		Source: NGS] the allowable values of a point type used by the			
pointType (Enumeration:				•	• •	•
CodePointType)			nt feature. The poin			
		provided as subtypes of ControlPoints for ease of use and clarification.				i use and
name (VARCHAR2 (50))		Any commonly used name for the control point.				
monumentType (Enumeration:	:		The type of monument as defined by the Corps of Engineers			
			EM 110-1-1002.			
		The monument description. A temporal description of the operational status of the feature.				
			This attribute is used to describe real-time status.			
ellipsoidHeight (Real)		The height above the reference ellipsoid, measured along the				
		ellipsoidal outer normal through the point in question. Also				
voorOfSurvoy (Number 4)		called the geodetic height. [Source: NGS] The year of the most recent runway end survey used to compute				
·					d curvey	ised to compute
yearOfSurvey (Number 4)		The year of			d survey u	ised to compute
dateRecovered (Date)		The year of the ARP The date the		nway en	ecovered.	Format for

(String 30)	identify the location of the monument.
fieldBook (String 254)	The field book.
globalPositionSystemSuitable	A Boolean indicating GPS suitability.
(Boolean)	
coordinateZone (Enumeration:	The State Plane Coordinate System Code for where the airport
CodeStatePlane)	is primarily located.
stampedDesignation (String 50)	The designation stamped onto the monument.
epoch (String 10)	Survey epoch used to establish the control point.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.8.6. Airport Control Point – Profile Points

Definition: Use this feature for points on the airfield possessing significant geographic importance, such as the Primary and Secondary Airport Control Stations (PACS/SACS), Runway Intersections, Airport Elevation, centerline perpendicular points for NAVAIDs, Stopway Ends, Profile Points, and the Touchdown Zone Elevation (TDZE).

Feature Group	Geospatial
Feature Class Name	AirportControlPoint
Feature Type	Point
CADD CALL DO	

CADD Standard Requirements

Lavar/Laval

Layer/Level	Description				
C-TOPO-RNYE-	Runway centerline elevation point				
	Color Linetype Line Weight Symbol				
AutoDesk Standards	6	Continuous	1	User Defined	
MicroStation Standards	5	Continuous	7	Oser Defined	
Sensitivity	Restricted				
	AIXM				
Equivalent Standards	FGDC				
	SDSFIE	Control_point			
Documentation and	None				
Submission Requirements	None				
Related Features	_			`	

Data Capture Rules: Collect three-dimensional points along all usable runways centerlines. Reduction of data must resolve to a profile with points at 10 foot intervals at certificated airports and no more than 50 feet at all airports.

Monumentation	None.			
Survey Doint Location	Horizontal	Vei	Vertical	
Survey Point Location	N/A	N	I/A	
Accuracy Requirements (in feet)	Hawigantal	Vei	Vertical	
	Horizontal	Orthometric	Ellipsoidal	
	± 1 ft	± 0.25 ft	$\pm 0.20 \text{ ft}$	
Resolution	Geographic Coordinates	Distances and Elevations		
Resolution	Hundredth of arc second	Nearest tenth of a foot		

Feature Attributes	
Attribute (Datatype)	Description
permanentId (String 6)	Permanent point identifier assigned by NGS to PACS and
	SACS [Source: NGS]
pointType (Enumeration:	Contains the allowable values of a point type used by the
CodePointType)	ControlPoint feature. The point types may be supplementally
	provided as subtypes of ControlPoints for ease of use and
	clarification.
name (VARCHAR2 (50))	Any commonly used name for the control point.
monumentType (Enumeration:	The type of monument as defined by the Corps of Engineers
CodeMonumentType)	EM 110-1-1002.
description (VARCHAR2 (255))	The monument description.
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
ellipsoidHeight (Real)	The height above the reference ellipsoid, measured along the
	ellipsoidal outer normal through the point in question. Also
	called the geodetic height. [Source: NGS]
yearOfSurvey (Number 4)	The year of the most recent runway end survey used to compute
	the ARP
dateRecovered (Date)	The date the monument was last field recovered. Format for
	date is YYYYMMDD (i.e. September 15, 1994 = 19940915).
recoveredCondition	The condition and type of the marker (witness post) used to
(String 30)	identify the location of the monument.
fieldBook (String 254)	The field book.
globalPositionSystemSuitable	A Boolean indicating GPS suitability.
(Boolean)	
coordinateZone (Enumeration:	The State Plane Coordinate System Code for where the airport
CodeStatePlane)	is primarily located.
stampedDesignation (String 50)	The designation stamped onto the monument.
epoch (String 10)	Survey epoch used to establish the control point.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
+ 4	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.8.7. Airport Control Point – Touchdown Zone Elevation (TDZE)

Definition: Use this feature for points on the airfield possessing significant geographic importance, such as the Primary and Secondary Airport Control Stations (PACS/SACS), Runway Intersections, Airport Elevation, centerline perpendicular points for NAVAIDs, Stopway Ends, Profile Points, and the Touchdown Zone Elevation (TDZE).

Feature Group	Geospatial
Feature Class Name	AirportControlPoint
Feature Type	3D Point
CADD Standard Requiremen	ts
Layer/Level	Description
C-TOPO-RNYE-	Runway centerline elevation point

		Color	Linetype	Line Weight	Symbol		
AutoDesk Standards		6	Continuous	1	User Defined		
MicroStation Standards		5	Continuous	7	User Defined		
Sensitivity Restricted							
	AIXI	M					
Equivalent Standards	FGD	C					
	SDSI	FIE	Control_point				
Documentation and	None						
Submission Requirements	Tione	,					
Related Features							
Data Capture Rules: The TD					within the first		
3000 feet from the threshold an			e centerline profil	e data.			
Monumentation	None						
Survey Point Location		Horizo		Vert			
		N/A	A	N/A			
Accuracy Requirements (in		Horizo	ontal	Vert			
feet)				Orthometric	Ellipsoidal		
,		± 1		± 0.25 ft	± 0.20 ft		
Resolution		Geographic (Distances and			
77 4 4 4 77 4		Hundredth of	arc second	Nearest tent	h of a foot		
Feature Attributes	ı			• 4•			
Attribute (Datatype)		D .		scription)		
permanentId (String 6)				signed by NGS to F	'ACS and		
asiatTras (Enumeration)		SACS [Sou		f	. d l 4l		
pointType (Enumeration: CodePointType)				s of a point type use	•		
Coder omt Type)		ControlPoint feature. The point types may be supplementally provided as subtypes of ControlPoints for ease of use and					
		clarification		ion onns for ease o	i use and		
name (VARCHAR2 (50))		1000		r the control point.			
monumentType (Enumeration:				ined by the Corps of	of Engineers		
CodeMonumentType)		EM 110-1-1		med of the corps of	or Engineers		
description (VARCHAR2 (255	5))		ent description.				
status (Enumeration: codeStatu				operational status	of the feature.		
				ibe real-time status			
ellipsoidHeight (Real)				ce ellipsoid, measur			
		ellipsoidal o	outer normal throu	igh the point in que	stion. Also		
		called the ge	eodetic height. [S	ource: NGS]			
yearOfSurvey (Number 4)		The year of	the most recent ru	unway end survey u	ised to compute		
		the ARP					
dateRecovered (Date)				ast field recovered.			
				eptember 15, 1994			
recoveredCondition			• •	marker (witness pe	ost) used to		
(String 30)	identify the location of the monument.						
fieldBook (String 254)	The field book.						
globalPositionSystemSuitable		A Boolean i	ndicating GPS su	itability.			
(Boolean)							
coordinateZone (Enumeration:				ystem Code for wh	ere the airport		
CodeStatePlane)	,,	is primarily located.					
stampedDesignation (String 50))	The designa	tion stamped onto	the monument.			

epoch (String 10)	Survey epoch used to establish the control point.		
userFlag (String 254)	An operator-defined work area. This attribute can be used by		
	the operator for user-defined system processes. It does not		
	affect the subject item's data integrity and should not be used to		
	store the subject item's data.		
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal		
	together into a version.		

5.8.8. Airport Control Point	. – Primary and S	Secondary Airport (Control Stations ((PACS/SACS)	
Definition: Use this feature f					
such as the Primary and Seco	ndary Airport Co	ontrol Stations (PAC	S/SACS), Runwa	y Intersections,	
Airport Elevation, centerline p	erpendicular poin	ts for NAVAIDs, S	topway Ends, Pro	ofile Points, and	
the Touchdown Zone Elevation	(TDZE).				
Feature Group	Geospatial				
Feature Class Name	AirportControlP	oint			
Feature Type	Point				
CADD Standard Requiremen	ts				
Layer/Level		Descrip	otion		
V-SURV-DATA-CTPT-	Survey data (ber	nchmarks and horizo	ntal control points	or monuments)	
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	6	Continuous	1	User Defined	
MicroStation Standards	5	Continuous	7	User Dermed	
Sensitivity	Restricted	. 20			
•	AIXM				
Equivalent Standards	FGDC				
-	SDSFIE	Control_point			
Documentation and	None				
Submission Requirements	None				
Related Features					
Data Capture Rules: Refer to	AC 150/5300-16	for guidance on the a	airport control ma	erks.	
Monumentation	None.	-			
Curryon Doint Logotion	Hor	izontal	Vert	ical	
Survey Point Location	ľ	N/A	N/	A	
A source on Descriptorates (in	How	izontal	Vert	ical	
Accuracy Requirements (in	nor	izontai	Orthometric	Ellipsoidal	
feet)	± 0	0.20 ft	± 0.35 ft	± 0.35 ft	
D 1.0	Geographic	c Coordinates	Distances and	d Elevations	
Resolution	Thousanth	of arc second	Nearest hundr	edth of a foot	
Feature Attributes		•			
Attribute (Datatype)		Desc	cription		
permanentId (String 6)	Permanen	t point identifier assi	gned by NGS to P	PACS and	
		ource: NGS]			
pointType (Enumeration:			of a point type use	ed by the	
CodePointType)					
name (VARCHAR2 (50))	Any commonly used name for the control point.				
monumentType (Enumeration:	The type of	of monument as defir	ned by the Corps of	of Engineers	
CodeMonumentType) EM 110-1-1002.					
name (VARCHAR2 (50)) monumentType (Enumeration:	Contains the allowable values of a point type used by the ControlPoint feature. The point types may be supplementally provided as subtypes of ControlPoints for ease of use and clarification. Any commonly used name for the control point. The type of monument as defined by the Corps of Engineers				

description (VARCHAR2 (255))	The monument description.
status (Enumeration: codeStatus)	A temporal description of the operational status of the feature.
	This attribute is used to describe real-time status.
ellipsoidHeight (Real)	The height above the reference ellipsoid, measured along the
	ellipsoidal outer normal through the point in question. Also
	called the geodetic height. [Source: NGS]
yearOfSurvey (Number 4)	The year of the most recent runway end survey used to compute
	the ARP
dateRecovered (Date)	The date the monument was last field recovered. Format for
	date is YYYYMMDD (i.e. September 15, 1994 = 19940915).
recoveredCondition	The condition and type of the marker (witness post) used to
(String 30)	identify the location of the monument.
fieldBook (String 254)	The field book.
globalPositionSystemSuitable	A Boolean indicating GPS suitability.
(Boolean)	
coordinateZone (Enumeration:	The State Plane Coordinate System Code for where the airport
CodeStatePlane)	is primarily located.
stampedDesignation (String 50)	The designation stamped onto the monument.
epoch (String 10)	Survey epoch used to establish the control point.
userFlag (String 254)	An operator-defined work area. This attribute can be used by
	the operator for user-defined system processes. It does not
	affect the subject item's data integrity and should not be used to
	store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.8.9. Coordinate Grid Area

Definition: A regular pattern of horizontal and vertical lines used to represent regular coordinate intervals along the x and y axis. This grid line can be used to generate an arbitrary grid system which is common on locator maps.

Feature Group	Geospatial	Geospatial			
Feature Class Name	CoordinateGridAr	ea			
Feature Type	Line				
CADD Standard Requi	rements				
Layer/Level	Description	Layer/Level	Description		
C-DETL-GRPH-	Graphics, gridlines, non-text items	S-GRID-MSC3-	Miscellaneous grid lines (Type 3)		
C-GRID-FRAM-	Frame (bounding frame of an area referenced by a grid)	S-GRID-MSC4-	Miscellaneous grid lines (Type 4)		
C-GRID-MAJR-			Primary grid lines (vertical)		
C-GRID-MINR-	Minor grid lines	V-GRID-FRAM-	Frame		
S-GRID-HORZ-	Primary grid lines (horizontal)	V-GRID-MAJR-	Major grid lines		
S-GRID-MSC- Miscellaneous grid lines (Type 1)		V-GRID-MINR-	Minor grid lines		
S-GRID-MSC2-	Miscellaneous grid lines (Type 2)				

	Colo	r	Linetype	Line Weight	Symbol
AutoDesk Standards	2		Continuous	1 MM	User Defined
MicroStation Standards	4		Continuous	7	User Defined
Sensitivity	Restricted				
	AIXM	Coor	rdinateGridArea		Extension
Equivalent Standards	FGDC	Coor	rdinateGridArea		
	SDSFIE	Coor	rdinate_grid_area		
Documentation and Submission Requirements	No docum	entation	is required for thi	s feature.	
Related Features					
Data Capture Rules: N/A					
Monumentation	No monun		n required.		
Survey Point Location		Horiz		Vert	
Survey I omt Location		N/	A	N/	
Accuracy Requirements (in		Horiz	ontal	Vertical	
feet)		Horizontal		Orthometric	Ellipsoidal
Teet)	N/A		N/A	N/A	
Resolution	Geographic Coordinates		Distances and Elevations		
		N/	A	N/A	
Feature Attributes					
Attribute (Datatype)				cription	
name (VARCHAR2 (50))	The cell.	name, o	code or identifier u	sed to refer to an i	ndividual grid
description (VARCHAR2 (255)	, ,		of the feature.		
status (Enumeration: codeStatu		A temporal description of the operational status of the feature.			
		This attribute is used to describe real-time status.			
		An operator-defined work area. This attribute can be used by			
userFlag (String 254)		the operator for user-defined system processes. It does not			
useri iag (Sumg 254)	900	affect the subject item's data integrity and should not be used to			
	store the subject item's data.				
gridType (Enumeration:	Code indicating the type of grid.				
CodeGridType)	0 11 0				
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal				
	together into a version.				

5.8.10. Elevation Contour

Definition: Connecting points on the surface of the earth of equal vertical elevation representing some					
fixed elevation interval.					
Feature Group	Geospatial				
Feature Class Name	ElevationContour				
Feature Type	Line				
CADD Standard Requiremen	ts				
Layer/Level	Description				
C-TOPO-MAJR-	Major contours				
C-TOPO-MINR-	Minor contours				
V-TOPO-MAJR-	Major contours				
V-TOPO-MAJR-IDEN	Major contours				
V-TOPO-MINR-	Minor contours				
V-TOPO-MINR-IDEN	Minor contours				

C-TOPO-MINR-ONEF	Mino	or contours				
C-TOPO-MINR-TWOF	Minor contours					
		Color	Linetype	Line Weight	Symbol	
AutoDesk Standards		2		1 MM	Han Daffard	
MicroStation Standards		4	N/A	7	User Defined	
Sensitivity	Rest	ricted				
·	AIX	M	ElevationContou	r	Extension	
Equivalent Standards	FGI	OC .	ElevationContou	r		
_	SDS	FIE	elevation_contoi	ır_line		
Documentation and	No d	locumentatio	on is required for the	nic feature	101	
Submission Requirements	110 0		in is required for the	iis reature.		
Related Features						
Data Capture Rules: N/A						
Monumentation	No n	nonumentati				
Survey Point Location		Horiz			tical	
Survey I ome Location		N.	/A	N/A		
Accuracy Requirements (in	Horizontal		Vertical			
			Orthometric	Ellipsoidal		
feet)	One-half contour interval			One-half contour interval	N/A	
	Geographic Coordinates				d Elevations	
Resolution			of arc second	Five tenths of foot		
Feature Attributes	l .					
Attribute (Datatype)			De	scription		
name (VARCHAR2 (50))		Name of th		F		
description (VARCHAR2 (255))	Description	n of the feature.			
status (Enumeration: codeStatu						
,	,	This attribute is used to describe real-time status.				
length (Real)		The overal	l length of the feat	ure.		
userFlag (String 254)		An operator-defined work area. This attribute can be used by				
	the operator for user-defined system processes. It does not					
+ 4		affect the subject item's data integrity and should not be used to				
		store the su	ıbject			
		item's data				
contourValue	The elevation of the contour line.					
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal toge			oroposal together		
into a version.						

5.8.11. Image Area

J.O.11. Illiage Area						
Definition: The image footpring	Definition: The image footprint or coverage area.					
Feature Group	Geospatial					
Feature Class Name	ImageArea					
Feature Type	Polygon					
CADD Standard Requiremen	ts					
Layer/Level		Descri	ption			
V-AERI-BNDY-	Aerial photograph boundaries					
	Color Linetype Line Weight Symbol					
AutoDesk Standards	1	Continuous	1 MM	User Defined		
MicroStation Standards	3	Commuous	7	User Defilled		

Sensitivity	Conf	Confidential				
	AIX	M	ImageArea	Extension		
Equivalent Standards	FGD	OC	ImageArea	·		
	SDS	FIE	Image_area			
Documentation and	No d	ooumontotic	on is required for th	is footure		
Submission Requirements	110 0	ocumentatio	on is required for th	is reature.		
Related Features						
Data Capture Rules: Boundar	ry of a	erial imager	y.			
Monumentation	No n	nonumentati				
Survey Point Location		Hori	zontal	Ver	tical	
Survey Foint Location		N	I/A		/A	
Accuracy Requirements (in		Hori	zontal		tical	
feet)				Orthometric	Ellipsoidal	
1000)			f the imagery	N/A	N/A	
Resolution			Coordinates	Distances and Elevations		
		N	I/A	N/A		
Feature Attributes	T					
Attribute (Datatype)				scription		
name (VARCHAR2 (50))		Name of th				
description (VARCHAR2 (255)))			e information concerning the		
			m, limited to 255 cl			
status (Enumeration: codeStatu	s)	A temporal description of the operational status of the feature.				
		This attribute is used to describe real-time status.				
frameId (String 20)			ntification number of			
photoDate (Date)		Date the aerial photography was flown. Format for date is				
				IDD (i.e. September 15, 1994 = 19940915)		
userFlag (String 254)		An operator-defined work area. This attribute can be used by				
	the operator for user-defined system processes. It do					
	affect the subject item's data integrity and should not be used to			d not be used to		
	store the subject item's data.			1		
Alternative (Integer2)		Discriminator used to tie features of a plan or poroposal				
•		together in	to a version.			

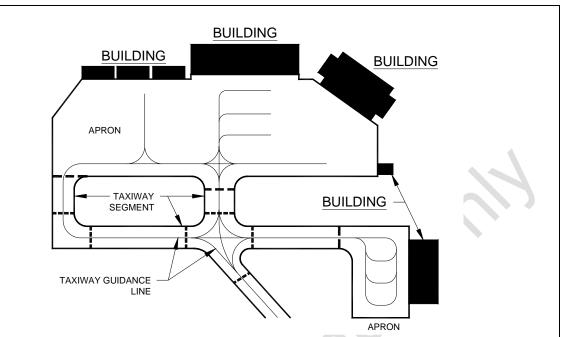
5.9. Group: MAN MADE STRUCTURES

5.9.1. Building

Definition: A three-dimension	nal structure (i.e.	hangars, terminal	s, etc.) modeled v	with a bounding	
polygon.					
Feature Group	Manmade Struc	tures			
Feature Class Name	Building				
Feature Type	Polygon				
CADD Standard Requireme	ents				
Layer/Level		Des	scription		
A-ELEV-OTLN-	Building outline	es			
C-BLDG-OTLN-	Buildings and o	ther structures			
G-PLAN-OTLN-	Floor outline/pe	rimeter/building f	footprint		
H-BLDG-OTLN-	Command posts	s, information cen	ters		
M-ELEV-OTLN-	Building outline	es			
V-BLDG-OTLN-	Buildings and o	ther structures			
	Color	Linetype	Line Weight	Symbol	
AutoDesk Standards	2	Continuous	1 MM	User Defined	
MicroStation Standards	4	Continuous	7	Oser Defined	
Sensitivity	Restricted				
	AIXM	Building		Extension	
Equivalent Standards	FGDC	Building	7	Extension	
	SDSFIE structure_existing_site				
Documentation and	None				
Submission Requirements					
Related Features					

Data Capture Rules: Determine the terminal building complex, hangars, maintenance facilities, and other prominent buildings directly associated with aircraft operations and directly connected to the apron as individual polygon objects. Collect by field survey methods recently constructed and/or completed buildings not visible on imagery and meeting the above criteria. Extract the building outline feature as the footprint of the building at ground level. Determine the height at the highest point of the corresponding building. The AGL height of the polygon is determined as the difference between the base elevation and top elevation on the roof.

NOTE: If the building penetrates an OIS or is selected as a representative object, additionally identify, classify and document the building as an <u>ObstructionArea</u> and associated accuracy.



Illustrates the collection of airport buildings.

Monumentation	No monumentation required.		
Survey Point Location	Horizontal	ertical	
Survey I omit Location	N/A		N/A
Accuracy Requirements	Horizontal	Vertical	
	Horizontai	Orthometric	Ellipsoidal
(in feet)	± 3 ft	± 5 ft	N/A
Resolution	Geographic Coordinates Distances and Ele		and Elevations
	Hundredth of arc second	Nearest foot	

Feature Attributes	
Attribute (Datatype)	Description
name (VARCHAR2 (50))	Name of the feature.
description (VARCHAR2 (255))	A description or other unique information concerning the
	subject item, limited to 255 characters.
buildingNumber (String 16)	The code indicating the number of the building.
structureType	The type of structure.
(Enumeration: CodeStructureType)	
status (Enumeration: codeStatus)	This value differentiates structure entities by operational status.
numberOfCurrentOccupants	Number of persons currently occupying the structure
(Integer)	
areaInside (Real)	Total inside area of structure
structureHeight (Real)	Maximum height of structure
areaFloor (Real)	Total inside floor area
lightingType	A description of the lighting system.
(Enumeration: codeLightingType)	
markingfeatureType	The color of the marking(s)
(Enumeration:	
codeMarkingFeatureType)	
color	The type of the marking(s)
(Enumeration: codeColor)	

userFlag (String 254)	An operator-defined work area. This attribute can be used by the operator for user-defined system processes. It does not affect the subject item's data integrity and should not be used to store the subject item's data.
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal together into a version.

5.9.2. Construction Area

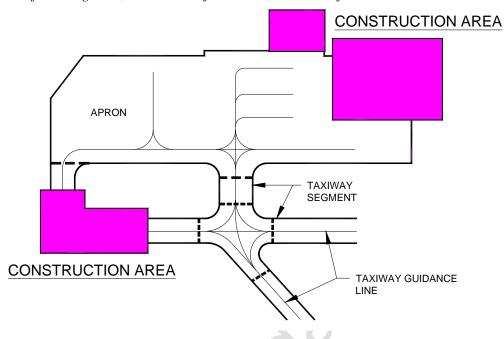
Definition: A defined area that is under construction, not intended for active use until authorized by
the concerned authority. The area defines a boundary for personnel, material, and equipment engaged
in the construction activity.

in the construction activity.							
Feature Group	Manmade Structures						
Feature Class Name	ConstructionArea						
Feature Type							
CADD Standard Requirements							
Layer/Level	Description	Layer/Level	Description				
A-STAT-DEMO-	Demolition	L-STAT-FUTR-	Future work				
A-STAT-DEMO- PHS1	Demolition - phase 1	L-STAT-NEWW-	New work				
A-STAT-DEMO- PHS2	Demolition - phase 2	L-STAT-TEMP-	Temporary work				
A-STAT-DEMO- PHS3	Demolition - phase 3	M-STAT-DEMO-	Demolition				
A-STAT-FUTR-	Future work	M-STAT-DEMO- PHS1	Demolition - phase 1				
A-STAT-NEWW-	New work	M-STAT-DEMO- PHS2	Demolition - phase 2				
A-STAT-TEMP-	Temporary work	M-STAT-DEMO- PHS3	Demolition - phase 3				
C-PROP-CONS-	Construction limits/controls, staging area	M-STAT-FUTR-	Future work				
C-STAT-DEMO-	Demolition	M-STAT-NEWW-	New work				
C-STAT-DEMO- PHS1	Demolition - phase 1	M-STAT-TEMP-	Temporary work				
C-STAT-DEMO- PHS2	Demolition - phase 2	P-FUEL-NGAS-	Natural gas piping				
C-STAT-DEMO- PHS3	Demolition - phase 3	P-STAT-DEMO-	Demolition				
C-STAT-FUTR-	Future work	P-STAT-DEMO- PHS1	Demolition - phase 1				
C-STAT-NEWW-	New work	P-STAT-DEMO- PHS2	Demolition - phase 2				
C-STAT-TEMP-	Temporary work	P-STAT-DEMO- PHS3	Demolition - phase 3				
E-STAT-DEMO- PHS1	Demolition - phase 1	P-STAT-FUTR-	Future work				
E-STAT-DEMO- PHS2	Demolition - phase 2	P-STAT-NEWW-	New work				

E-STAT-DEMO- PHS3	Demolition - phase 3	B P-STAT-TEMP-	Ten	nporary	work
F-STAT-DEMO-	Demolition (NOTE: comprehensive demolition is handled in Model File Type: Demolition Plan)		Der	Demolition	
F-STAT-DEMO- PHS1	Demolition - phase 1	S-STAT-DEMO- PHS1	Der	Demolition - phase 1	
F-STAT-DEMO- PHS2	Demolition - phase 2	S-STAT-DEMO- PHS2	Der	nolition	- phase 2
F-STAT-DEMO- PHS3	Demolition - phase 3	S-STAT-DEMO- PHS3	Der	nolition	- phase 3
F-STAT-FUTR-	Future work	S-STAT-FUTR-	Futi	ire wor	k
F-STAT-NEWW-	New work	S-STAT-NEWW-	Nev	v work	
F-STAT-TEMP-	Temporary work	S-STAT-TEMP-	Ten	nporary	work
G-SITE-OTLN-	Site plan - key map	T-STAT-DEMO- PHS1	Der	nolition	ı - phase 1
H-STAT-DEMO- PHS1	Demolition - phase 1	T-STAT-DEMO- PHS2	Der	nolition	- phase 2
H-STAT-DEMO- PHS2	Demolition - phase 2	T-STAT-DEMO- PHS3	Der	Demolition - phase	
H-STAT-DEMO- PHS3	Demolition - phase 3	V-STAT-DEMO-	com is h	Demolition (NOTE: comprehensive demolition is handled in Model File Type: Demolition Plan)	
L-STAT-DEMO-	Demolition (NOTE: comprehensive demolition is handled in Model File Type: Demolition Plan)		Futi	Future work	
L-STAT-DEMO- PHS1	Demolition - phase 1	V-STAT-NEWW-	Nev	v work	
L-STAT-DEMO- PHS2	Demolition - phase 2	V-STAT-TEMP-	Ten	Temporary work	
L-STAT-DEMO- PHS3	Demolition - phase 3	3			
	Color	Linetype	Line W	eight	Symbol
AutoDesk Standards	161	Continuous	1 M	M	User Defined
MicroStation Standar	ds 4	Continuous	7		Oser Defined
Sensitivity Restricted					
	AIXM	ConstructionArea		Extension	
Equivalent Standards	FGDC	ConstructionArea		Exten	sion
	SDSFIE	structure_existing_si	te		
Documentation and Submission Requirements	None				

Related Features

Data Capture Rule: Capture the outer edges of the area under construction. The limits could be a combination of building lines, construction fence lines, or natural features such as streams or rivers.



Illustrates the collection of an airport construction area.

Monumentation	No mor	o monumentation required.				
Currey Daint Lagation		Horizontal	Vertical			
Survey Point Location		N/A		N/A		
A common Dogwinsmanda		Horizontal	,	Vertical		
Accuracy Requirements		Horizontai	Orthometric	Ellipsoidal		
(in feet)		± 3 ft	± 5 ft	N/A		
Resolution	Geog	graphic Coordinates	Distances	s and Elevations		
Resolution	Hun	dredth of arc second	Ne	earest foot		
Feature Attributes						
Attribute (Datatype			Description			
name (VARCHAR2 (50))	<u> </u>	Name of the feature.				
description (VARCHAR2 (2	55))	A description or other unique information concerning the				
		subject item, limited to				
status (Enumeration: codeStatus)		A temporal description				
		This attribute is used to	describe real-time	e status.		
projectName (String 60)		The name of the constr	uction project			
projectStatus		The status of the constr	ruction project			
(Enumeration: CodeProjectS	tatus)					
coordinationContact (String 75)		Airport, emergency, airline, tenant, and contractor personnel				
		who are responsible for coordinating on-airport construction				
	work					
userFlag (String 254)		An operator-defined work area. This attribute can be used by				
		the operator for user-defined system processes. It does not				
		affect the subject item's data integrity and should not be used to				
		store the subject item's	data.			

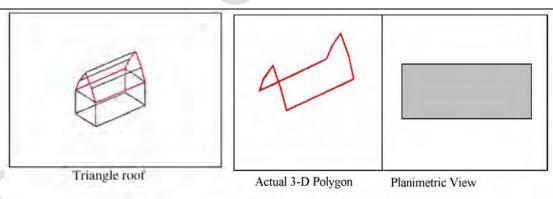
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal
	together into a version.

5.9.3. Roof

Definition: Structure on top of buildings, garages and other similar structures.				
Manmade Struct	tures			
Roof				
Polygon				
ents				
	Descri	ption		
Roof outline				
Color	Linetype	Line Weight	Symbol	
5	Continuous	1 MM	User Defined	
1	Continuous	7	Oser Defined	
Restricted	Restricted			
AIXM	None			
FGDC	FGDC None			
SDSFIE None				
News				
None				
	Manmade Struct Roof Polygon nts Roof outline Color 5 1 Restricted AIXM FGDC	Manmade Structures Roof Polygon nts Descri Roof outline Color Linetype 5 Continuous Restricted AIXM None FGDC None SDSFIE None	Manmade Structures	

Data Capture Rules: Collect the roof outline to represent the outer edge of the roof as well as the break line or ridge lines of a sloped or multiple level roof. On flat roofs with elevator shafts or large HVAC units on the roof collect these items at the top of the units and shown as a roof within a roof feature.

NOTE: If the roof penetrates an OIS or is selected as a representative object, additionally identify, classify and document the roof as an <u>ObstructionArea</u> and associated accuracy.





Top Perimeter of Building Superimposed over Imagery

Monumentation No monumentation required.

Curvey Daint Leastion	Horizontal	Ver	tical	
Survey Point Location	N/A	N/A		
A course on Degrainers and a fin	Horizontal	Ver	tical	
Accuracy Requirements (in feet)	Horizontai	Orthometric	Ellipsoidal	
leet)	±3 ft	± 5 ft	N/A	
Resolution	Geographic Coordinates	Distances an	d Elevations	
Resolution	Hundredth of arc second	Neare	st foot	
Feature Attributes				
Attribute (Datatype)	De	Description		
name (VARCHAR2 (50))	Name of the feature.	Name of the feature.		
description (VARCHAR2 (255)	Description of the feature.	Description of the feature.		
status (Enumeration: codeStatus	s) A temporal description of the	A temporal description of the operational status of the feature.		
	This attribute is used to descri	ribe real-time statu	S.	
buildingNumber (String 16)	The code indicating the number	per of the building		
userFlag (String 254)	An operator-defined work are	An operator-defined work area. This attribute can be used by		
	the operator for user-defined	the operator for user-defined system processes. It does not		
	affect the subject item's data integrity and should not be use		d not be used to	
	store the subject item's data.	store the subject item's data.		
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal			
	together into a version.			

5.9.4. Fence

Definition: Any fencing (chain	-link, razor wire	, PVC, etc.) [Source:	: FAA]	
Feature Group	Manmade Structures			
Feature Class Name	Fence			
Feature Type	Line			
CADD Standard Requirement	its			
Layer/Level		Descr	ription	
C-DETL-FENC-	Fencing			
C-SITE-FENC-	Fences and har	ndrails		
L-DETL-FENC-	Fencing			
L-SITE-FENC-	Fencing			
S-SAFE-FENC-	Fencing			
V-SITE-FENC-	Fences and handrails			
C-SECU-FENC-	Security fencing			
	Color	Line type	Line Weight	Symbol
AutoDesk Standards	5	Continuous	1 MM	User Defined
MicroStation Standards	1	Continuous	7	User Defined
Sensitivity	Restricted			
	AIXM	Fence		Extension
Equivalent Standards	FGDC Fence Extension			
*	SDSFIE fence_line			
Documentation and Submission Requirements	No documentation is required.			
Related Features				
DAGA DI GUA				

Data Capture Rules: Collect line along fence line.

NOTE: If the fence penetrates an OIS or is selected as a representative object, additionally identify, classify and document the fence as an <u>Obstacle</u> and associated accuracy.

Monumentation	No monumentation required.			
Survey Point Location	Horizontal	Vertical		
Survey Foint Location	N/A	N/A		
A coursey Dequirements (in	Horizontal	Ver	tical	
Accuracy Requirements (in feet)	Horizontai	Orthometric	Ellipsoidal	
reet)	± 3 ft	± 5 ft	N/A	
Resolution	Geographic Coordinates	Distances and Elevations		
	Hundredth of arc second	Neare	st foot	
Feature Attributes				
Attribute (Datatype)	De	scription		
name (VARCHAR2 (50))	Name of the feature.	Name of the feature.		
description (VARCHAR2 (255))	*	A description or other unique information concerning the		
	subject item, limited to 255 c	haracters.		
status (Enumeration: codeStatus)	*	± (1)	100	
	This attribute is used to descr	***************************************	y	
type (String 16)	Indicate the fencing material	used.		
height (Real)	The overall distance from the	surface of the grou	and to the top of	
	the fence.			
userFlag (String 254)		An operator-defined work area. This attribute can be used by		
	the operator for user-defined system processes. It does not affect			
	the subject item's data integrity and should not be used to store			
	the subject item's data.	the subject item's data.		
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal			
	together into a version.			

5.9.5. Gate

Definition: A gate is an openin	g in a fence or othe	er type of barrier b	etween areas.			
Feature Group	Manmade Struct	ures				
Feature Class Name	Gate					
Feature Type	Line					
CADD Standard Requiremen	ts					
Layer/Level		Descr	iption			
L-DETL-GATE-	Gate					
L-SITE-GATE-	Gate					
C-SITE-GATE-	Gates along fence	es or other barriers	intended to restri	ct access		
	Color	Color Linetype Line Weight Symbol				
AutoDesk Standards	214	1 MM	User Defined			
MicroStation Standards	5	Continuous	7	User Defined		
Sensitivity	Restricted					
	AIXM	GateLine		Extension		
Equivalent Standards	FGDC GateLine Extension			Extension		
*	SDSFIE	gate_line				
Documentation and	None					
Submission Requirements	None					
Related Features			·	·		

Data Capture Rules: Collect center of gate from post-to-post.

NOTE: If the gate penetrates an OIS or is selected as a representative object, additionally identify, classify and document the gate as an <u>Obstacle</u> and associated accuracy.

Monumentation	No monumentation required.			
Survey Deint Leastion	Horizontal	Vertical		
Survey Point Location	N/A	N/	N/A	
A	Horizontal	Vert	Vertical	
Accuracy Requirements (in	Horizontai	Orthometric	Ellipsoidal	
feet)	± 3 ft	± 5 ft	N/A	
Dagalastian	Geographic Coordinates	Distances an	d Elevations	
Resolution	Hundredth of arc second	Neares	st foot	
Feature Attributes				
Attribute (Datatype)	De	scription		
name (VARCHAR2 (50))	Name, code or identifier used	d to identify the gat	e.	
description (VARCHAR2 (255))) A description or other unique	A description or other unique information concerning the		
	subject item, limited to 240 c	haracters.		
status (Enumeration: codeStatus	s) A temporal description of the	e operational status	of the feature.	
	This attribute is used to descri	ribe real-time status	S.	
type (VARCHAR2 (50))	The gate material and method	d of construction.		
length (Real)	The overall distance from on	e end of the gate to	the other.	
height (Real)	The overall distance from the	e surface of the top	of the gate.	
attended (Boolean)	A Boolean indicating whether	A Boolean indicating whether the gate is tended by a guard or		
	other individual.	other individual.		
userFlag (String 254)	An operator-defined work area. This attribute can be used by			
		the operator for user-defined system processes. It does not affect		
	the subject item's data integrity and should not be used to			
	the subject item's data.			
Alternative (Integer2)	(Integer2) Discriminator used to tie features of a plan or poroposal			
	together into a version.			

5.9.6. Tower

Definition: A structure created	, by man, to facilita	ate an activity at an	elevated level ab	ove the ground.	
Feature Group	Manmade Struct	ures			
Feature Class Name	Tower				
Feature Type	Point				
CADD Standard Requiremen	ts				
Layer/Level	~	Descr	iption		
C-STRC-TOWR-	Tower				
E-POLE-GUYS-	Guy equipment				
V-POLE-GUYS-	Guy equipment				
V-STRC-TOWR-	Tower				
	Color Linetype Line Weight Symbol				
AutoDesk Standards	7	Continuous	1	- User Defined	
MicroStation Standards	0	Continuous	7	Oser Defined	
Sensitivity	Restricted				
	AIXM VerticalStructure Extension				
Equivalent Standards	FGDC Tower Extension				
	SDSFIE	tower_site			
Documentation and Submission Requirements	No documentation	on is required.			

Related Features

Data Capture Rules: Collect the point at the highest location of the tower. When surveying guyed structures, capture any guys penetrating a surface separately from the structure itself. Determine and document the point where the guy wires penetrate the OIS at a distance greater than 100 feet from the actual structure, identify it as a separate point object.

NOTE: If the tower penetrates an OIS or is selected as a representative object, additionally identify, classify and document the tower as an Obstacle and associated accuracy.

classify and document the towe	1		racy.		
Monumentation	No monumentation required.				
Survey Point Location	Horizontal		Vertical		
Survey I omit Location		N/A	N/A		
A D		Horizontal	Ver	Vertical	
Accuracy Requirements (in		Horizontai	Orthometric	Ellipsoidal	
feet)		± 3 ft	± 5 ft	N/A	
D 1.4	(Geographic Coordinates	Distances and Elevations		
Resolution		Hundredth of arc second		st foot	
Feature Attributes			0		
Attribute (Datatype)		De	scription		
name (VARCHAR2 (50))		Name of the feature.			
description (VARCHAR2 (255))	Description of the feature.			
status (Enumeration: codeStatu		A temporal description of the operational status of the feature.			
Status (Enameration: CodeStatu	3)	This attribute is used to describe real-time status.			
verticalStructureMaterial		Classifies the predominant material of the vertical object			
(Enumeration:		Classifies the predominant in	ateriar or the vertice	cui object	
CodeVerticalStructureMaterial)					
lightCode (Boolean)	<u>′</u>	A code indicating that the tower is lighted [Source: AIXM]			
lightingType		A description of the lighting			
(Enumeration: codeLightingTy	ne)	classifications are Approach;		•	
(Zitameration: codeZighting1)	ρυ)	Obstruction	import, realively,	Turit (tu), una	
markingFeatureType (Enumera	tion.	The type of the marking(s)			
codeMarkingFeatureType)	tion.	V1			
color	1	The color of the marking(s)			
(Enumeration: codeColor)		give coror or the imaximig(s)			
userFlag (String 254)		An operator-defined work area. This attribute can be used by			
		the operator for user-defined			
	the subject item's data integrity and should not be use				
		the subject item's data.			
Alternative (Integer2)	Discriminator used to tie features of a plan or poroposal			oroposal	
(Titeriair (* (integer2)		together into a version.		