

Critical Area Ordinance Instructions for Digital Submission

1. Upon submittal of the **final site plan**, the applicant shall also provide a digital file.
2. The digital file shall comply with one of two standards, CAD or GIS.
3. *Please note that your data must be registered to Clark County Public Land Survey System Coordinates.* If you use the empty Critical Layer Template.dwg, there is a layer called Vancouver_UGA. If your polylines and text do not appear inside this polyline, then you have not registered your data to the Clark County PLSS.
4. CAD standards are identified in Section 1 of the *Vancouver Submittal Specifications*
 - a. An empty drawing file Critical Layer Template.dwg is available on this webpage for download.
 - b. The required layer names are included. All you need to do is populate them with data as noted in the *Vancouver Submittal Specifications* and *Domains* documents on this webpage.
 - c. All polyline features must have a closed boundary. For environmental features extending beyond the property boundary, use this boundary to close your polyline.
 - d. All text labels must be positioned within the polyline boundary.
 - e. Name your drawing file after the CAP number issued for the project (i.e. CAP2009-00001).
 - f. If the *Vancouver Submittal Specifications* or *Domains* documents do not answer your questions, consult the actual ordinance at VMC 20.740. If you have additional questions, please contact the City's GIS Coordinator at greg.newkirk@ci.vancouver.wa.us or at 360-487-7904.
5. GIS shapefile standards are identified in Section 2 of the *Vancouver Submittal Specifications*.
 - a. A zip file of empty shapefiles is available on this webpage for download.
 - b. See the *Domains* document on this webpage for guidance in populating the attribute fields.
 - c. If you have any questions, note the information in 4.f. above.

City of Vancouver Critical Areas - Digital Submittal Requirements

Upon submittal of the final site plan, the applicant shall provide a digital file to comply with either the CAD standards (see Section 1) or GIS shapefile standards (see Section 2).

Please note that both of these file formats shall be registered to Clark County Public Land Survey System Coordinates.

Section 1: CAD Layers

The key requirements for the CAD submittal involve the following;

- a) All drawing files shall use the specific layer names shown below.
- b) All polyline features must have a closed boundary.
- c) All text labels must be positioned within the polyline boundary.
- d) The drawing file syntax shall use the Development Review Case Number (e.g., "CAP2003-00121.DWG")
- e) Contact Greg Newkirk at 360-487-7904 or greg.newkirk@ci.vancouver.wa.us if you have any questions.

1. General Layers		
Layer Description	Layer Name	Feature Type
Site Area - the subject parcel(s).	Site	Polyline
Project Area - the portion of the site being developed.	Project	Polyline
Parcel Boundaries	Parcels	Polyline
Parcel ID Number <i>see domain table</i>	Par-ID	Text
Land Use Intensity <i>see domain table</i>	Landuse	Text

2. Wetland Layers		
Layer Description	Layer Name	Feature Type
Wetland Boundary	Wetland	Polyline
Wetland Buffers	Wetbuff	Polyline
Wetland Category <i>see domain table</i>	WetType	Text
Buffer Distance <i>see domain table</i>	WetBuffDist	Text
Habitat Function <i>see domain table</i>	HabFunction	Text
Mitigation Type <i>see domain table</i>	MitType	Text
Mitigation Ratio <i>see domain table</i>	MitRatio	Text

3. Geologic Hazard Layers		
Layer Description	Layer Name	Feature Type
Geologic Hazard Area	GeoHaz	Polyline
Protected Geologic Hazard Area	GeoHazProtect	Polyline
Geologic Hazard Type <i>see domain table</i>	GeoHazType	Text
Geologic Hazard Notes (i.e., numeric distance from project limits to hazard area)	GeoHazNotes	Text
Geologic Hazard Buffer Distance <i>see domain table</i>	GeoHazBuffDist	Text

4. Stream Layers		
Layer Description	Layer Name	Feature Type
Shoreline of Statewide Significance	Stream-S	Polyline
Fish-bearing stream or lake	Stream-F	Polyline
Seasonal Non-fish bearing stream	Stream-Ns	Polyline
Perennial Non-fish bearing stream	Stream-Np	Polyline
Riparian Management Area	Stream-RMA	Polyline
Riparian Buffer	Stream-RB	Polyline
Stream size <i>see domain table</i>	StreamSize	Text
Connection to other streams Y/N	StreamConnect	Text

5. Local Habitat Layers (see VMC 20.740.100 for guidance)		
Layer Description	Layer Name	Feature Type
Local Habitat Area	HabLocal	Polyline
Local Habitat Buffer	HabBuff	Polyline
Local Habitat Type	HabType	Text
Local Habitat Criteria	HabCriteria	Text
Local Habitat Function	HabFunction	Text
Local Habitat Buffer Distance	HabBuffDist	Text

6. Priority Habitat Layers		
Layer Description	Layer Name	Feature Type
Priority Habitat & Species Area	PHS	Polyline
Priority Habitat & Species Type	PHS Type	Text

7. Flood Layers		
Layer Description	Layer Name	Feature Type
Flood Hazard Area	Flood	Polyline
Flood Hazard Type	FloodZone	Text
FEMA Flood Map Change	FloodMapChange	Text

End of CAD Layers

Section 2: GIS Shapefile Items

Site (The subject parcel or parcels)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Development Review Case #	Case_No	(e.g., CAP2003-00121.DWG)

Project (The portion of the site having development activity)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Development Review Case #	Case_No	(e.g., CAP2003-00121.DWG)

Wetland (Delineated Wetland Area)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
PARTIAL (extend off-site?)	PARTIAL	Y/N
Wetland Category	CATEGORY	See Domain Table
Development Review Case #	CASE_NO	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)
Habitat Function	Hab_Funct	See Domain Table
Land Use Intensity	Land_Use	See Domain Table
Mitigation	Mit	Y/N
Mitigation Type	Mit_Type	See Domain Table
Mitigation Ratio	Mit_Ratio	##:##
Mitigation Signed Off	Mit_Date	MM/DD/YYYY

WetBuff (Wetland Buffer Area)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
PARTIAL	PARTIAL	Y/N
CATEGORY	CATEGORY	See Domain Table
Development Review Case #	CASE_NO	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)
BUFF_BASE DIST	Base_Dist	See Domain Table
BUFF_Averaged	Buff_Avg	Y/N
BUFF_Reduced	Reduced	Y/N
Mitigation	Mit	Y/N
Mitigation Signed Off	Mit_Date	Signature date: MM/DD/YYYY

GeoHaz (Geologic Hazard Area)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Geologic Hazard Description	Geohaz	See Domain Table
Development Review Case #	Case_No	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)
Mitigation	Mit	Y/N

GeoHazP (Protected Geologic Hazard Area)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Geologic Hazard Description	Geohazp	See Domain Table
Buffer Distance	BUFF_DIST	See VMC 20.740.130(C)(1)(j) VMC 20.740.130(C)(2)(c)(3)
Development Review Case #	CASE_No	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)

Stream (Stream Area)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Case_No	Case_No	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)
Stream type	Wtr_type	See Domain Table
Stream size	Wtr_size	See Domain Table
Stream connection?	Wtr_connection	Y/N
Land Use Intensity	Land_Use	See Domain Table

StreamRB (Stream Riparian Buffer)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Development Review Case #	Case_No	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)
Base Buffer distance	Buff_Dist	See VMC 20.740.110-1
Buffer isolated from Development Activity	Isolated	Y/N
Buffer within Development Activity	Developed	Y/N

StreamRMA (Stream Riparian Management Area)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Development Review Case #	Case_No	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_num	(e.g., 162505000)
RMA_BASE DIST	Buff DIST	See VMC 20.740.110-1
RMA_Isolated	Isolated	Y/N
RMA_Modified	Modified	Y/N

Habitat of Local Importance

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Development Review Case #	Case_No	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)
Habitat type	Hab_type	See Domain Table
Habitat criteria	Criteria	See Domain Table
Habitat function	Function	See Domain Table
Land Use Intensity	Land_Use	See Domain Table
Buffer Distance	BUFF_Dist	Numeric Buffer Distance

PHS (If changes to WDFW Priority Habitat and Species)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Priority Habitat & Species	PHS_Type	See Domain Table

Flood (If changes to FEMA Flood Hazard Map)

Item Description	Item Name	Item Values
Shape Type	Shape	Polygon
Priority Habitat & Species	PHS_Type	See Domain Table

Floodcert (If Floodproofing Certificate is necessary)

Item Description	Item Name	Item Values
Shape Type	Shape	Point
Development Review Case #	Case_no	(e.g., CAP2003-00121.DWG)
Existing Tax Lot ID	Serial_Num	(e.g., 162505000)
As-built Lowest Floor elevation	Elev_LF	
As-built Floodproofed elevation	Elev_FP	
Difference between as-built elevation and BFE	BFE_diff	(e.g., +1.0' or -0.6')
Floodproofing Certification ID	Cert_ID	
Floodproofing Certification Date	Cert_Date	MM/DD/YYYY
Basement	Basement	Y/N
Crawlspace	Crawlspace	Y/N
Minor Exception	Exception	Y/N
Appeal	Appeal	Y/N
Applicant-generated BFE	App_BFE	Y/N
Elevated on Fill	Elev_Fill	Y/N
Critical Facility	Crit_Facil	Y/N
FEMA Map Change Type	FEMA_Type	See Domain Table
FEMA Map Change Case ID	FEMA_ID	##-##-####A
FEMA Map Change Panel Number	FEMA_Panel	#####A#####A
FEMA_Date	FEMA_Date	MM/DD/YYYY

End of GIS Shapefiles

Valid attribute and text values

1. Parcel Layers & Valid Text Values

Par-ID	Description
Example=612505000	Nine digit Property ID value (assigned by Clark Co. Assessor)

Land Use Intensity	Description
H	High – All residential, commercial or industrial zones
M	Moderate – Park or general greenway zones
L	Low – Natural open space or Lettuce Fields/Vancouver Lowlands greenway zones

2. Wetland Text Layers & Valid Text Values

WetType	Description
1	Category I
2	Category II
3	Category III
4	Category IV

WetBuffDist	Wetland Category 1 Characteristics	Land Use Intensity
250	Natural Heritage Wetlands or Bogs	High
190		Moderate
125		Low
300	Forested Wetlands High Habitat Function	High
225		Moderate
150		Low
150	Moderate Habitat Function	High
110		Moderate
75		Low
100	Low Habitat Function	High
75		Moderate
50		Low
300	Other Category 1 Wetlands High Habitat Function	High
225		Moderate
75		Low
150	Moderate Habitat Function	High
110		Moderate
75		Low
100	Low Habitat Function	High
75		Moderate
50		Low

WetBuffDist (continued)	Wetland Categories 2, 3 & 4 Characteristics	Land Use Intensity
250	Category 2: High Habitat Function	High
225		Moderate
150		Low
150	Category 2: Moderate Habitat Function	High
110		Moderate
75		Low
100	Category 2: Low Habitat Function	High
75		Moderate
50		Low
150	Category 3: Moderate Habitat Function	High
110		Moderate
75		Low
80	Category 3: Low Habitat Function	High
60		Moderate
40		Low
50	Category 4	High
40		Moderate
25		Low

HabFunction	Description
H	High = rating of 29-36
M	Moderate = rating of 20-28
L	Low = rating < 20

MitType	Description
RC	Re-establishment or Creation
RH	Rehabilitation
RCRH	Re-establishment or Creation plus Rehabilitation
RCE	Re-establishment or Creation plus Enhancement
E	Enhancement Only
MBC	Mitigation Bank Credits

MitRatio - based on Wetland type and Mitigation Type (see matrix below)

Wetland Category and Type	Re-Establishment or Creation	Re-habilitation	Re-Establishment or Creation (R/C) plus Rehabilitation (RH)	Re-Establishment or Creation (R/C) plus Enhancement (E)	Enhancement Only
Category I Forested	6:1	12:1	1:1 R/C & 10:1 RH	1:1 R/C and 20:1 E	24:1
Category I Based on Score for Functions	4:1	8:1	1:1 R/C and 6:1 RH	1:1 R/C and 12:1 E	16:1
Category II	3:1	6:1	1:1 R/C and 4:1 RH	1:1 R/C and 8:1 E	12:1
Category III	2:1	4:1	1:1 R/C and 2:1 RH	1:1 R/C and 4:1 E	8:1
Category IV	1.5:1	3:1	1:1 R/C and 1:1 RH	1:1 R/C and 2:1 E	6:1

3. Geologic Hazard Text Layers & Valid Text Values

Geohaz	Description
LS	Landslide
LIQ	Liquefaction
SHAKE	Ground Shaking Amplification
FAULT	Fault Rupture
ER-S	Erosion - Soil
ER-B	Erosion - Bank

4. Stream Text Layers & Valid Text Values

Streamsize	Description
Lg	Large > 5' width
Sm	Small < 5' width

Stream type	Description
S	Shoreline of statewide significance
F	Streams that contain fish
NS	Seasonal streams that do not contain fish
NP	Perennial streams that do not contain fish

StreamConnect	Description
Y	Yes – Connects to another stream
N	No – Does not connect to another stream

5. *Local Habitat Text Layers & Valid Text Values*

HabType	Description
AQ	Aquatic
TER	Terrestrial

HabCriteria	Description
DIV	High Species Diversity
POP	Declining Species Population
SCR	Scarcity of Habitat Type
SEN	Sensitivity to Disturbance
OTH	Other unique, local habitat functions

HabFunction	Description
H	High = rating of 29-36
M	Moderate = rating of 20-28
L	Low = rating < 20

6. *Priority Habitat & Species Text Layers & Valid Text Values*

PHSType	Description
HAB	Non-riparian Habitat Conservation Area
RIPAR	Riparian Habitat Conservation Area
SPEC	Species
	No Mapping Indicators

7. *Flood Plain Text Layers & Valid Text Values*

FloodZone	Description
500	500 Year Flood Area (Moderate Floodway Fringe)
100	100 Year Flood Area (Floodway Fringe)
AE	Floodway
X	Outside Flood Area

FloodMapChange	Description
LOMA	Letter of Map Amendment
CLOMA	Conditional Letter of Map Amendment
LOMR	Letter of Map Revision
CLOMR	Conditional Letter of Map Revision
LOMR-F	Letter of Map Amendment based on Fill
CLOMR-F	Conditional Letter of Map Amendment based on Fill
PMR	Physical Map Revision