NWRS Map Template Specifications

Overview

The Division of Realty has historically been the manager of cadastral information related to refuge land inventory and new land acquisition. The types of information include maps, surveys, title documents, legislative approvals, public land orders, and many other sources of information necessary for purchase, transfer, and management of Federal lands. A key component of their responsibility has been the requirement to maintain up-to-date land status maps for all facilities that contain lands under the jurisdiction of the Fish & Wildlife Service. Such facilities include all refuge system lands, national fish hatchery lands, coordination areas, and administrative sites. The Division of Realty has maintained status maps in a standardized fashion since the 1940's that have undergone very little change in their specifications in the last 60 years.

The popularity and increased distribution and use of desktop GIS applications such as ArcGIS, have drastically increased the cartographic potential of status maps as well as many other map products produced for the refuge system. The ability to utilize new types of symbology such as transparent color fills and automated text labeling have made maps easier to produce and increased their aesthetic quality.

In 2002, each Region sent a representative to a meeting in Denver, Colorado to help develop new cartographic standards that embraced new GIS technological capabilities and streamlined the production of required map products (for a list of the required products refer to Service Manual 343 FW 3). Over the next 3 years the team developed and modified draft templates and produced final versions in 2006.

This document contains specifications and diagrams for the layout of all ANSI standard sized maps referencing the new cartographic standards. We intend for employees to use this information in conjunction with pre-made electronic templates that are available for download at: http://www.fws.gov/filedownloads/ftp%5Fgis/R1/NWRS/Map%5FTemplates/

The new national cartographic standards are somewhat generic so they will be functional for the different technical needs and methods available to the Regional and California/Nevada Operations (CNO) offices. Precise layout specifications can vary between Regions/CNO. The electronic templates, diagrams, and specification tables in this document were produced by the Branch of Refuge Information, Division of Realty & Refuge Information, Region 1. For more information please contact:

Dave Hoy, Lead Cartographer Division of Realty & Refuge Information Portland, Or 97232 Ph. 503-231-2230

Purpose

The wide distribution of ArcGIS licenses in Region 1 has increased the number of users, many of whom have not had sufficient training in GIS methods or cartographic design. Most GIS users would like to make more effective and standardized maps but are unable to devote the time and resources to accomplish this task. The ease of using pre-made templates was a consideration from the beginning, but only one of many. These templates are the end result of a long successful process that we hope will yield many benefits for the NWRS for years to come. Below is a list of intentions and accomplishments that help illustrate the multipurpose benefits that came out of this process:

Initial Mandate:

- Change the FWS cartographic standards so they take advantage of new technology and mapping capabilities
- Streamline the realty cartographic process, and make mapping less burdensome for the program

National Objectives:

- Create a standard that can be implemented in all Regions/CNO
- Specifications must work in both CAD and GIS systems
- Integrate national graphic standards as much as possible; maps have the same look and feel as other FWS documents
- Utilize colored symbology, and move away from black and white line maps
- Consider standards developed by other DOI bureaus (NPS/BLM)
- Incorporate flexibility in some elements considering the different characteristics of each Region/CNO (large refuges vs. small refuges)
- Re-write the mapping chapter of the Service Manual (343 FW 3).

Regional Objectives:

- Develop electronic templates for ArcGIS that employees can use for mapping at stations and the Regional/CNO office.
- Develop specifications and supporting documentation for all standard map sizes
- Re-make all required map products using the templates/new national standards
- Integrate the new standards and templates with the SIM handbook

Usage

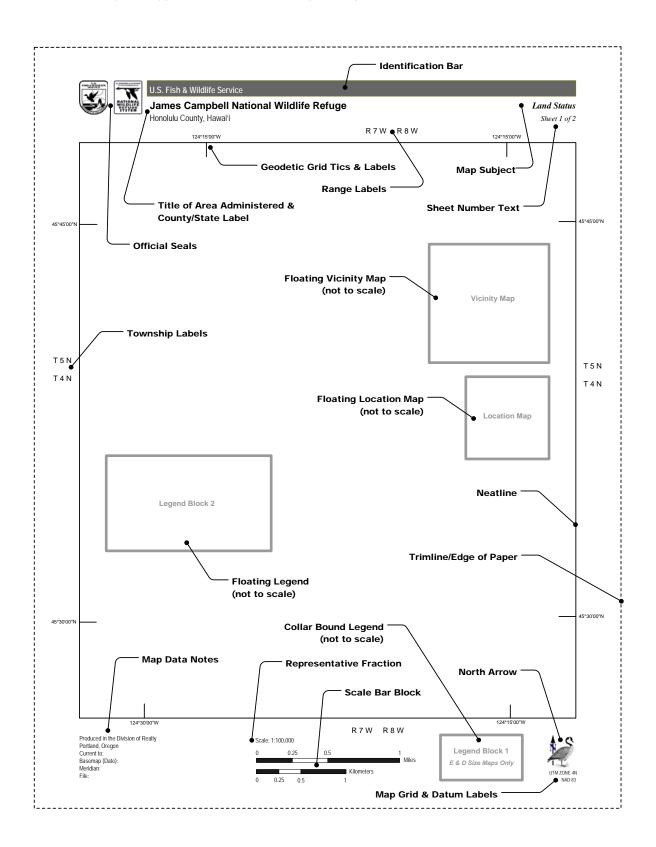
We designed the templates to be used for many purposes but their logic is somewhat "station centric" as the title block is specific to a place name. Most mapping projects that relate to a refuge can be represented in the template by changing the map subject/title to reflect the project purpose.

The diagram on Figure 1 of this document describes the core map elements that are referred to in the associated style sheets. The diagram on Figure 2 contains coded dimensions and properties that are listed in the style sheets by map size and orientation. The values coded with a 'D' represent dimensions that have exact measurements for placing the different elements on the map. The values coded with a 'S' are size properties that are usually associated with text/font specifications. The values coded with a 'V' are variable map elements that might appear on a map and do not necessarily have exact specifications. The style sheets and diagrams contain enough information to re-create all the templates from scratch; however, we do not recommend this. The intention is for users to use the electronic templates and the style sheets to place and/or edit elements they have deleted or modified in some way.

The new cartographic standards are required for all official map products listed in 343 FW 3 of the Service Manual. These are products that are the responsibility of the land acquisition and planning programs located in the Regional/CNO offices. We are making these templates and the associated guidance available to other NWRS and FWS users as a courtesy to help streamline their mapping projects, but are not currently required as part of the standard. We will revise the standard in the future and add new map definitions or change elements, as necessary. We will also develop and distribute new templates, as necessary.

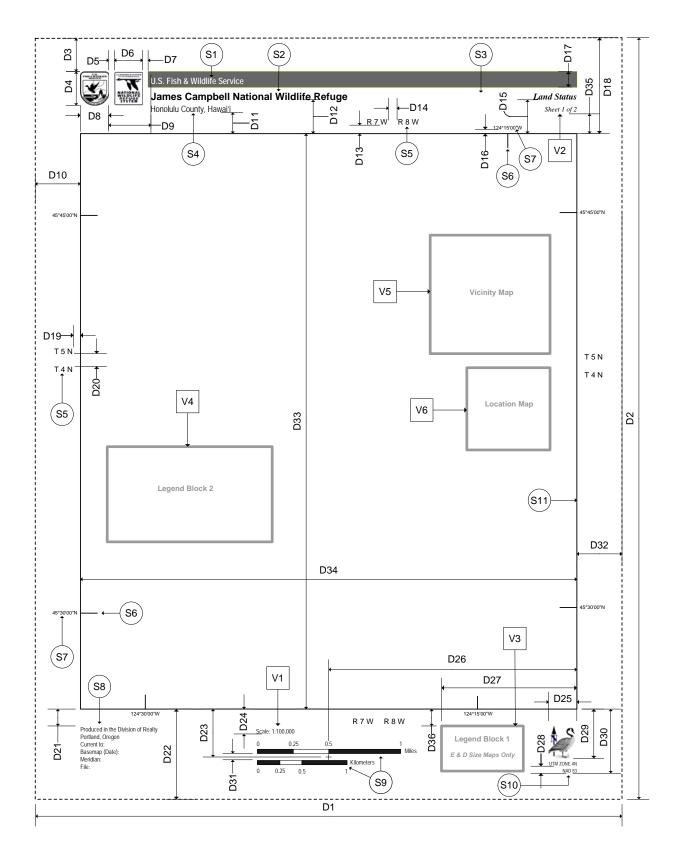
NWRS Map Template Core Element Diagram (Figure 1).

Element names/descriptions appear in the associated map size style sheets



NWRS Standard Map Layout Diagram (Figure 2).

Refer to style sheets for measurements according to map size and orientation



NWRS STANDARD A SIZE MAP (STYLE SHEET)

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					Space between scale bars	.1"	.1"	D31
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					Scale bar block (horizontal pos)	3.55"	4.5"	D26
					North arrow width	.40"	.40"	D25
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					Scale bar block (vertical pos)	.6"	.6"	D23
					Neatline to bottom of sheet	1.3"	1.3"	D22
					Map notes text (vertical pos)	.275"	.275"	D21
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					Space between scale bars	.15"	.15"	D31
					Datum text (vertical pos)	1.35"	1.35"	D30
					Bottom of NA to neatline	1.65"	1.65"	D29
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					Map notes text (vertical pos)	.4"	.4"	D21
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Portur SyleCoorSyleCoorSyle 34° Page height1Top margin11 45° Page height1111 1° Logo space1111 1.7° FVS logo width1111 2.3° Logo space1111 1.7° FVS logo width1111 2.3° Logo space1111 1.7° FVS logo width1111 2.3° Range label spacing1111 1.3° Admin area text (vertical pos)1111 1.3° Margin label offset1111 2.7° Range label spacing1111 3.7° Norma text (vertical pos)1111 4° Nealine to top of sheet1111 2.7° Range label spacing1111 3.7° North area weich (vertical pos)1111 4.7° Naga label offset1111 2.7° Range label spacing1111 3.7° North area weich (vertical pos)1111 4.7° Naga label offset1111 1.5° North area weich (vertical pos) <td>Offset .10" from bottom of banner; CS = .5; CW = 97; WS = 100</td> <td></td> <td>White</td> <td>Bold</td> <td>Arial Narrow</td> <td>ID bar text</td> <td></td> <td></td> <td>S1</td>	Offset .10" from bottom of banner; CS = .5; CW = 97; WS = 100		White	Bold	Arial Narrow	ID bar text			S1
Portant User Description Port Style Color style 34* Page height 1* Top margin 1 1 Top margin 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Legend block (vertical pos)</td><td></td><td>.6_"</td><td>D36</td></td<>						Legend block (vertical pos)		.6 _"	D36
Hormatryst: DescriptionFontStyleCoorstyleCoorstyle 34^{cr} Page height11Top margin11						Sheet number text (vertical pos)		.6 ⁻	D35
Portact UseDescriptionFontStyleCoorstyle34°Page height11StyleCoorstage1Top margin111113°Logo space111111.7°NVRS logo width111112.3°ID ar/life text (horizontal pos)111111.3°Kange label offset111111.3°Range label offset111111.3°Range label offset111111.4°Nage label offset111111.4°Nage label offset111111.4°Nage label offset111111.4°Nage label offset111111.4°Nage label offset111111.4°Neatline to top of sheet111111.5°Scale bar block (vertical pos)111111.5°Noth arrow width1111111.5°Scale bar block (horizontal pos)1111111.5°Scale bar block (horizontal pos)11111111.5°Scale bar block (horizontal pos)11	Origin is lower left corner (landscape; X=2.5, y=4) (portrait; X=1.5, y=4)					View frame width		41"	D34
PorturbustDescriptionPort StyleCoorstyle34°Page height11 <	Origin is lower left corner (landscape; X=2.5, y=4) (portrait; X=1.5, y=4)					View frame height		26"	D33
PortaritystDescriptionFontStyleColorstage 34° Page heightPage height111 45° Page height1111 3° Logo balght1111 3° Logo balght1111 3° Logo balght1111 3° Logo balght1111 3° Seals/ID Bar space1111 1.5° Left margin1111 3° Range label offset1111 3° Range label offset1111 3° Range label offset1111 3° Range label offset1111 1.3° Admin area text (vertical pos)1111 3° Range label offset1111 1.4° Nageline to bot offset1111 4° Nageline to bot of sheet11111 3° Ref law lower (vertical pos)1111 4° Nageline to bot of sheet11111 4° Nageline to bot of sheet11111 5° Nagle bar block (vertical pos)11111 5° Nage						Right margin		1.5"	D32
PortaritystDescriptionFontStyleColorstyle 34° Page heightPage height111 45° Page height1111 27° Logo height1111 27° Logo height1111 37° Logo beight1111 37° Logo beight11111 37° Logo beight11111 37° Logo beight11111 37° Logo beight11111 37° Range label offset11111 37° Township label offset11111 37° Range label offset111 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Space between scale bars</td> <td></td> <td>.2^ª</td> <td>D31</td>						Space between scale bars		.2 ^ª	D31
PortaritistPage widthFontStyleColorstyle $45^{\circ\circ}$ Page height11ColorstyleColorstyle $1^{\circ\circ}$ Logo height111111 $3^{\circ\circ}$ Logo height11111 $3^{\circ\circ}$ Logo height11111 $3^{\circ\circ}$ Logo space11111 $1.7^{\circ\circ}$ Logo width11111 $3^{\circ\circ}$ Seals/ID Bar space11111 $1.7^{\circ\circ}$ FVS logo width11111 $1.7^{\circ\circ}$ Seals/ID Bar space11111 $1.7^{\circ\circ}$ FVS logo width11111 $1.7^{\circ\circ}$ Seals/ID Bar space1111 $1.7^{\circ\circ}$ FVS logo width1111 $1.7^{\circ\circ}$ ID bart file text (vertical pos)1111 $1.3^{\circ\circ}$ Range label offset11111 $1.4^{\circ\circ}$ Geodetic label offset111111 $1.4^{\circ\circ}$ Geodetic label offset1111111 $1.4^{\circ\circ}$ Geodetic label offset1111111 $1.3^{\circ\circ}$ Range label pacing1111111 1.3						Datum text (vertical pos)		2"	D30
Portari UseDescriptionFontStyleColorStyleColorStyleColorStyle 34° Page heightPage heightIntegrationIntegrationIntegrationIntegration 2° Logo spaceIntegrationIntegrationIntegrationIntegrationIntegration 2° Logo spaceIntegrationIntegrationIntegrationIntegrationIntegration 3° Seals/ID Bar spaceIntegrationIntegrationIntegrationIntegration 2.3° Seals/ID Bar spaceIntegrationIntegrationIntegrationIntegration 3.3° Seals/ID Bar spaceIntegrationIntegrationIntegrationIntegration 3.3° IntegrationIntegrationIntegrationIntegrationIntegration 3.3° Range label offsetIntegrationIntegrationIntegrationIntegration 3.3° Range label offsetIntegrationIntegrationIntegrationIntegration 3.3° Range label spacingIntegrationIntegrationIntegrationIntegration 3.3° Range label spacingIntegrationIntegrationIntegrationIntegration 3.3° Range label spacingIntegrationIntegrationIntegrationIntegration 4° Naga instead spacingIntegrationIntegrationIntegrationIntegration 3.3° Township label spacingIntegrationIntegrationIntegration<						Bottom of NA to neatline		2.4"	D29
PortaritustDescriptionFortStyleStyleCoorStyle 34° Page heightPage height111 45° Page height1111 2° Logo space1111 3° Logo space1111 1.7° NURS logo width1111 2.3° Logo space11111 1.7° NURS logo width1111 2.3° Logo height1111 3.7° Seals/ID Bar space1111 1.5° County text (vertical pos)1111 1.3° Range label spacing11111 1.3° Range label offset11111 1.3° Range label offset11111 1.3° Range label offset111111 1.3° Range label offset111 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Map grid text (vertical spacing)</td><td></td><td>.2"</td><td>D28</td></td<>						Map grid text (vertical spacing)		.2"	D28
PorturitystDescription FortStyleStyleCoorStyle 34° Page heightPage height111 45° Page height1111 1° Top margin1111 2° Logo space11111 3° Logo space11111 1.7° Logo space11111 1.7° Seals/ID Bar space11111 2.3° Logo with11111 2.3° NURS logo with11111 2.3° ID bar/title text (horizontal pos)11111 1.5° Left margin11111111 1.3° Range label offset1111111 1.3° Range label offset1111111 1.3° Range label offset111111111 1.4° Nealine to top of sheet1111111111111111111111111111111111111						Legend block (horizontal pos)		13"	D27
FormationFontStyleCoorSize 34^{**} Page height15CoorSize 1^{**} Top margin1111 2^{**} Logo height1111 2^{**} Logo height1111 3^{**} Logo space1111 1.7^{**} NWRS logo width1111 2.3^{**} Logo space1111 1.5^{**} Left margin1111 2.3^{**} Ib bar/litle text (horizontal pos)1111 1.3^{**} Left margin11111 1.3^{**} Range label offset11111 2.0^{**} Range label offset11111 1.3^{**} Range label offset11111 1.3^{**} Township label offset11111 1.3^{**} Neatline to top of sheet111111 1.3^{**} Real (vertical pos)111<						Scale bar block (horizontal pos)		20.5"	D26
FormatticsDescriptionFontStyleColorSize 34^{*} Page height11StyleColorSize 1^{*} Top marigin11111 2^{*} Logo height11111 3^{*} Logo space11111 1.7^{*} NuRS logo width11111 2.3^{*} Logo space11111 1.7^{*} FWS logo width11111 2.3^{*} Logo space11111 1.7^{*} FWS logo width11111 2.3^{*} Role space11111 1.7^{*} FWS logo width11111 2.3^{*} Ib bar/litit text (horizontal pos)1111 1.3^{*} Admin area text (vertical pos)11111 1.3^{*} Range label offset111111 1.3^{*} Map subject text (vertical pos)111111 1.4^{*} Ibeal offset1111111 2.0^{*} Range label offset1111111 1.5^{*} Map subject text (vertical pos)111111 1.5^{*} </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>North arrow width</td> <td></td> <td>.75"</td> <td>D25</td>						North arrow width		.75"	D25
FormatticsDescriptionFontStyleColorSize 34^{*} Page height1StyleColorSize 45^{*} Page height1111 1^{*} Top marigin1111 2^{*} Logo height1111 3^{*} Logo space1111 1.7^{*} NURS logo width1111 2.3^{*} Logo space1111 1.5^{*} County Ext (horizontal pos)1111 1.5^{*} County lext (horizontal pos)1111 1.3^{*} Range label offset1111 2.0^{*} Range label offset1111 1.3^{*} Map subject text (vertical pos)1111 1.3^{*} Mag subject text (vertical pos)1 <td></td> <td></td> <td></td> <td></td> <td></td> <td>RF text (vertical pos)</td> <td></td> <td>1.3"</td> <td>D24</td>						RF text (vertical pos)		1.3"	D24
$\mathbf{Portrat US}$ DescriptionFortStyleColorStyleColorStyle 34^{*} Page height11Page height111 45^{*} Page height111111 1^{*} Top margin111111 2^{*} Logo height111111 3^{*} Logo space111111 1.7^{*} FWS logo width111111 2.3^{*} Dear/title bart space111111 1.5^{*} County Ext (vertical pos)111111 1.3^{*} Admin area text (vertical pos)111111 2.0^{*} Range label offset1111111 1.3^{*} Admin area text (vertical pos)1111111 1.3^{*} Range label offset111111111 1.3^{*} Range label offset11 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Scale bar block (vertical pos)</td> <td></td> <td>2"</td> <td>D23</td>						Scale bar block (vertical pos)		2"	D23
$\mathbf{PORTRUS}$ $\mathbf{PORt$ \mathbf{Style} \mathbf{Corr} \mathbf{Stre} \mathbf{Corr} \mathbf{Stre} $\mathbf{34^*}$ Page height $\mathbf{1^*}$ Page height $\mathbf{1^*}$ <						Neatline to bottom of sheet		4"	D22
FormationFontStyleColorSize 34^{*} Page height1555 45^{*} Page height11155 1^{*} Top margin11111 2^{*} Logo height11111 2^{*} Logo height11111 3^{*} Logo space11111 1.7^{*} NVRS logo width11111 1.7^{*} NVRS logo width11111 2.3^{*} Saals/ID Bar space11111 1.7^{*} NVRS logo width11111 2.3^{*} Darrithe text (horizontal pos)11111 1.3^{*} Admin area text (vertical pos)11111 1.3^{*} Range label offset11111 2.0^{*} Range label offset11111 1.3^{*} Range label offset11111 1.4^{*} Nea						Map notes text (vertical pos)		.6"	D21
FormatulesDescriptionFontStyleColorSize 34^{*} Page height11SupportSize1 45^{*} Page height11111 1^{*} Top margin11111 2^{*} Logo height11111 2^{*} Logo height11111 3^{*} Logo space11111 1.7^{*} NVRS logo width11111 2.3^{*} Saals/ID Bar space11111 1.7^{*} NVRS logo width11111 2.3^{*} Saals/ID Bar space11111 1.7^{*} NVRS logo width11111 2.3^{*} ID bar/tile that (horizontal pos)1111 1.3^{*} Range label offset11111 2.0^{*} Range label spacing11111 1.3^{*} Range label spacing11111 1.3^{*} Range label spacing11111 1.3^{*} Range label spacing11111 1.4^{*} Neatline to top of sheet111111 1.4^{*} Neatline to top of sheet1111 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Township label spacing</td> <td></td> <td>.20"</td> <td>D20</td>						Township label spacing		.20"	D20
FormationFontStyleColorSize 34^{*} Page heightIntegrationStyleColorSize 45^{*} Page heightIntegrationIntegrationIntegrationIntegration 1^{*} Top marginIntegrationIntegrationIntegrationIntegration 2^{*} Logo heightIntegrationIntegrationIntegrationIntegration 2^{*} Logo spaceIntegrationIntegrationIntegrationIntegration 1.7^{*} NVRS logo widthIntegrationIntegrationIntegrationIntegration 1.7^{*} NVRS logo widthIntegrationIntegrationIntegrationIntegration 2.3^{*} Color Mitles with (norizontal pos)IntegrationIntegrationIntegration 1.3^{*} Range label offsetIntegrationIntegrationIntegration 1.4^{*} Integration						Township label offset		ېت.	D19
FormaticistDescriptionFontStyleColorSize 34^{**} Page heightImage heightImage heightImage heightImage height 1^{**} Top marginImage heightImage heightImage heightImage height 2^{**} Logo heightImage heightImage heightImage heightImage height 2^{**} Logo heightImage heightImage heightImage heightImage height 3^{**} Logo spaceImage heightImage heightImage heightImage height 3^{**} Range heightImage heightImage heightImage heightImage height 3^{**} Range height heightImage height heightImage heightImage height 3^{**} Range height heightImage height heightImage height heightImage height height 3^{**} Range height heightImage height heightImage height height heightImage height heigh						Neatline to top of sheet		4"	D18
FormattusDescriptionFontStyleColorSize 34^{*} Page heightIntegrationIntegrationIntegrationIntegration 45^{*} Page heightIntegrationIntegrationIntegrationIntegration 1^{*} Top mariginIntegrationIntegrationIntegrationIntegration 2^{*} Logo heightIntegrationIntegrationIntegrationIntegration 2^{*} Logo heightIntegrationIntegrationIntegrationIntegration 3^{*} Logo spaceIntegrationIntegrationIntegrationIntegration 1.7^{*} NuRS logo widthIntegrationIntegrationIntegrationIntegration 1.7^{*} NuRS logo widthIntegrationIntegrationIntegrationIntegration 2.3^{*} Rologo widthIntegrationIntegrationIntegrationIntegration 1.5^{*} Left marginIntegrationIntegrationIntegrationIntegration 1.3^{*} Admin area text (vertical pos)IntegrationIntegrationIntegration 1.3^{*} Range label offsetIntegrationIntegrationIntegration 1.3^{*} Map subject text (vertical pos)IntegrationIntegrationIntegration 1.3^{*} Range label offsetIntegrationIntegrationIntegration 1.3^{*} Map subject text (vertical pos)IntegrationIntegrationIntegration 1.3^{*} Map subject text (vertical pos) <td></td> <td></td> <td></td> <td></td> <td></td> <td>ID bar height</td> <td></td> <td>1</td> <td>D17</td>						ID bar height		1	D17
Formation Font Style Color Size 34^{*} Page width Image height Im	6 pt offset in ArcMap Graticule Label Setting					Geodetic label offset		.1	D16
Portrat USDescriptionFortStyleColorSize 34° Page heightIIIII 45° Page heightIIIII 1° Top marginIIIII 2° Logo heightIIIII 2° Logo spaceIIIII 3° Logo spaceIIIII 1.7° Logo spaceIIIII 1.7° Logo spaceIIIII 1.7° Logo widthIIIII 1.7° Seals/ID Bar spaceIIIII 1.7° FWS logo widthIIIII 1.5° Left marginIIIII 1.5° Left marginIIIII 1.3° Admin area text (vertical pos)IIII 1.3° Range label offsetIIIII $.20^{\circ}$ Range label spacingIIIII $.20^{\circ}$ Range label spacingIIIII						Map subject text (vertical pos)		1.3"	D15
Formatius Description Font Style Color Size 34° Page height Page height Image height Ima						Range label spacing		.20"	D14
Formatius Description Fort Style Color Size 34° Page width Image height Ima						Range label offset		မှု	D13
Formatius Description Fort Style Color Size 34" Page height Image he						Admin area text (vertical pos)		1.3"	D12
Formatules Description Font Style Color Size 34" Page height Interpretention Interpretention Style Color Size 45" Page height Interpretention	รับการรับการรับการรับการราบการราบการรับการรับการรับการรับการรับการรับการรับการรับการรับการรับการรับการรับการรับ เมื่อของการรับการรับการราบการราบการราบการรับการรับการรับการรับการรับการรับการรับการรับการรับการรับการรับการรับก					County text (vertical pos)		.6 ¹	D11
Formatius Description Fort Style Color Size 34" Page height Image he	I andenane man has an extra inch of hinding edge for vertical hanging					l eft marcin		יב	D10
Portrait List Description Font Style Color Size 34" Page width Font Style Color Size 45" Page height Image Image Image Image Image 1" Top margin Image						ID bar/title text (horizontal pos)		2.3"	D9
Format List Description Font Style Color Size 34" Page width Fage width Image: Color Size Image: Color Size 45" Page height Image: Color Size Image: Color Size 1" Top margin Image: Color	Size is approximate					FWS logo width		1.7"	D8
Format List Description Font Style Color Size 34" Page width 45" Page height 1 1 Top margin 1 1 1 1 Top margin 1						Seals/ID Bar space		Ξ	D7
Format List Description Font Style Color Size 34" Page width Style Color Size Style Color Size 45" Page height Image Style Color Size Style Color Size 1" Top margin Image	Size is approximate					NWRS logo width		1.7"	D6
Format Ust Description Font Style Color Size 34" Page width Page height Image hei						Logo space		.ي ۳	D5
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Portrait List Description Font Style Color Size 34" Page width 45" Page height 45" 100 minute 100 minute <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Top margin</td><td></td><td>1</td><td>D3</td></t<>						Top margin		1	D3
Portrait Dist Description Font Style Color Size 34" Page width Font Style Color Size	Template is based on standard ANSI E sizes (43x34) but has 2 extra inches of adjustable margin					Page height		34"	D2
Portrait Dist Description Font Style Color Size	Template is based on standard ANSI E sizes (43x34) but has 2 extra inches of adjustable margin							45"	D1
Devision Cont State Color Sim	Notes	Size	Color	Style	Font	Description	Portrait Dist	Landscape Dist	Spec Code

NWRS STANDARD E SIZE MAP (STYLE SHEET)

12/28/2005