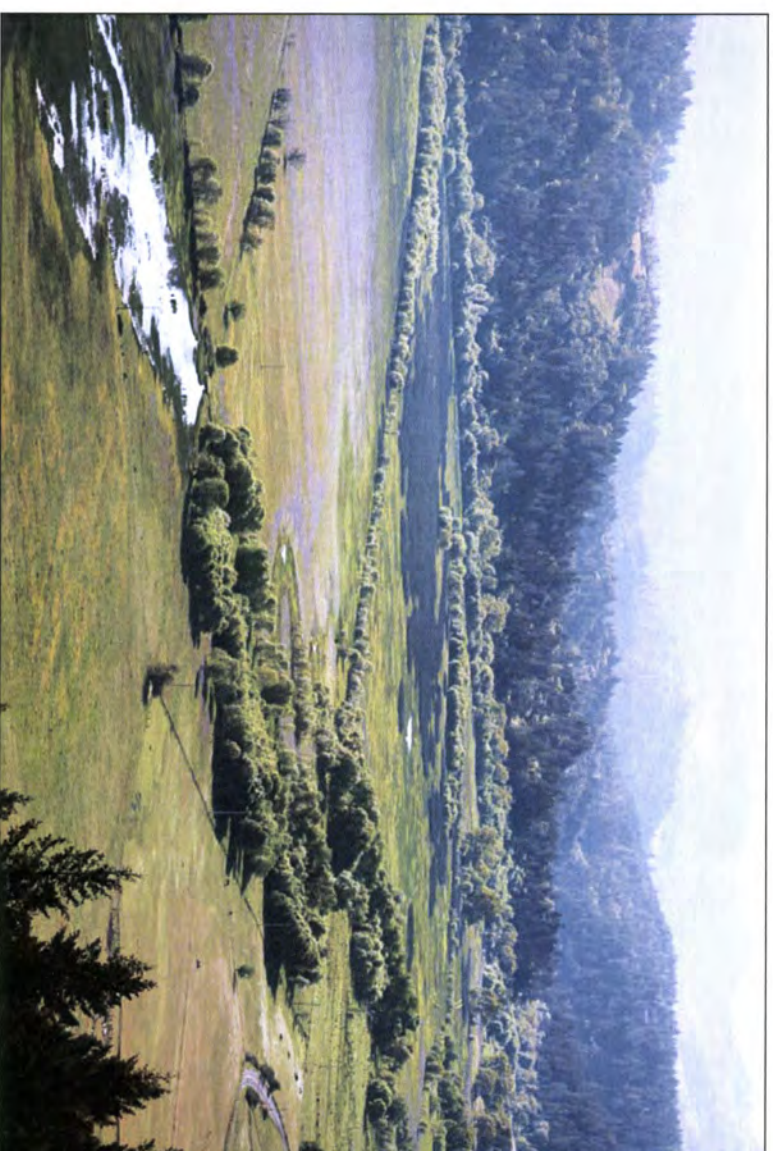


# **Willits Bypass Project Mitigation and Monitoring Proposal**



## **Appendix B**

U.S. Highway 101

Mendocino County, near the City of Willits, California

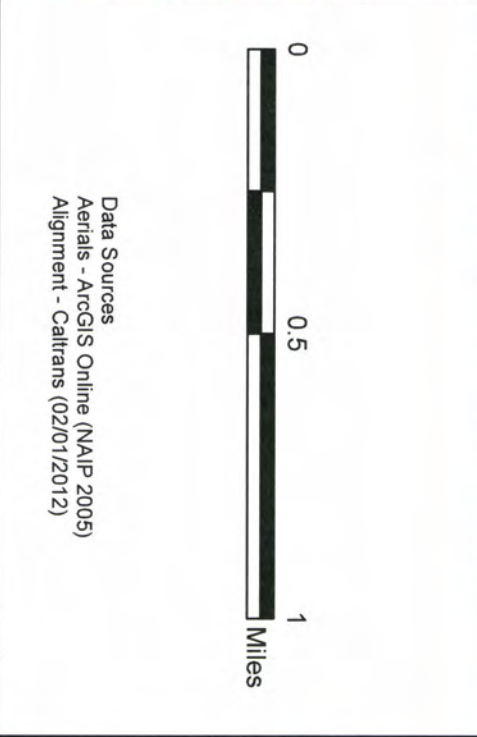
PM 43.1-52.3

01-26200

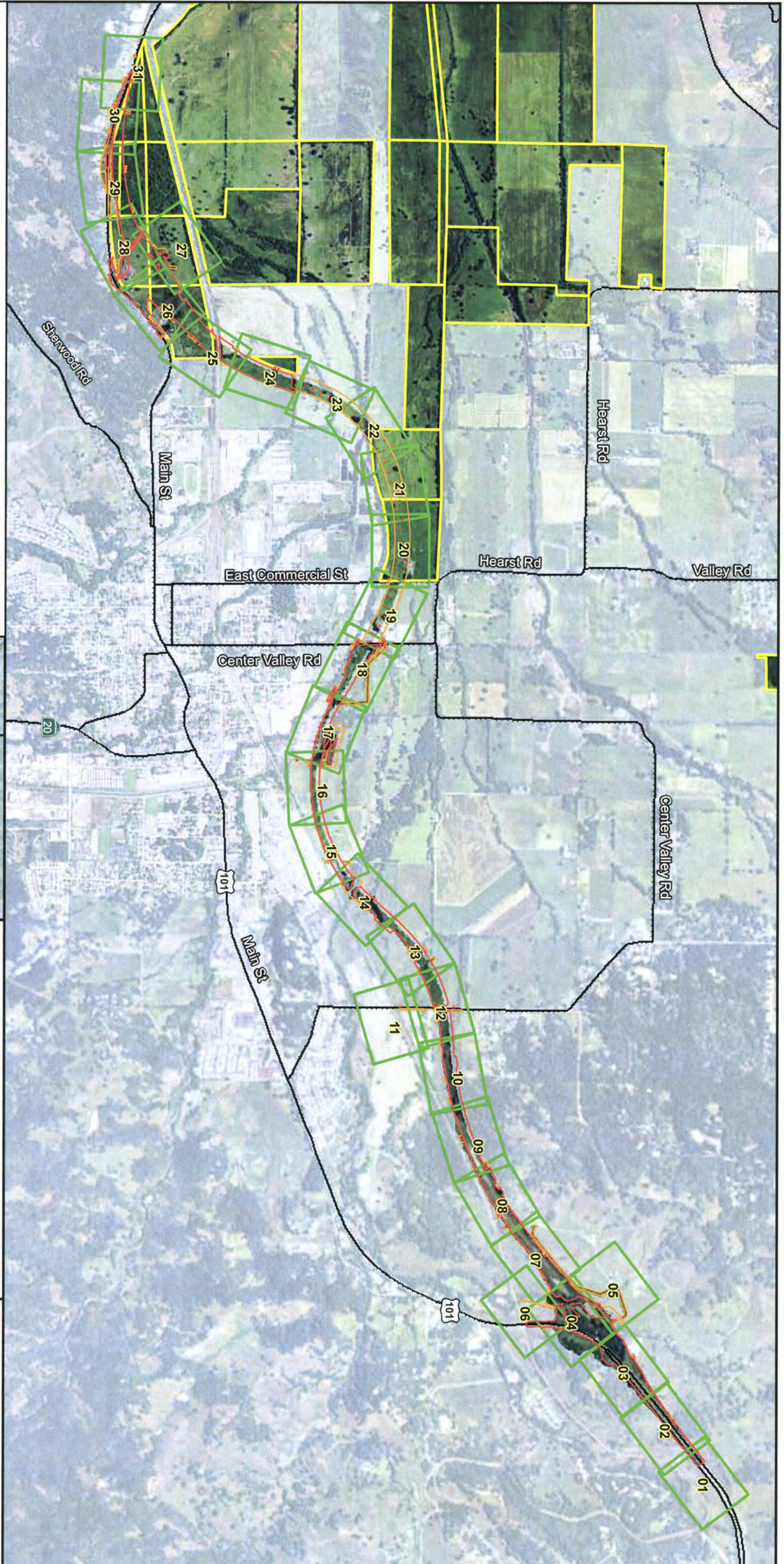
USACE file no. 1991-194740N

**February 2012**

Map Sheet Number	Riparian Figure	Wetland Figure	Map Sheet Number	Riparian Figure	Wetland Figure	Map Sheet Number	Riparian Figure	Wetland Figure
01	B-1		12	B-21	B-22	22	B-41	B-42
02	B-2		13	B-23	B-24	23	B-43	B-44
03	B-3	B-4	14	B-25	B-26	24	B-45	B-46
04	B-5	B-6	15	B-27	B-28	25	B-47	B-48
05	B-7	B-8	16	B-29	B-30	26	B-49	B-50
06	B-9	B-10	17	B-31	B-32	27	B-51	B-52
07	B-11	B-12	18	B-33	B-34	28	B-53	B-54
08	B-13	B-14	19	B-35	B-36	29	B-55	B-56
09	B-15	B-16	20	B-37	B-38	30	B-57	B-58
10	B-17	B-18	21	B-39	B-40	31	B-59	B-60
11	B-19	B-20						



  
**Appendix B**  
**Willits Bypass**  
**Sensitive**  
**Biological Resources**  
**Impact Maps**





**Legend**

**Alignment - Phase 1**

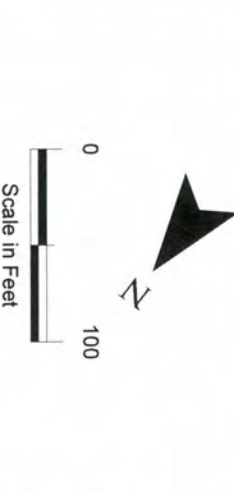
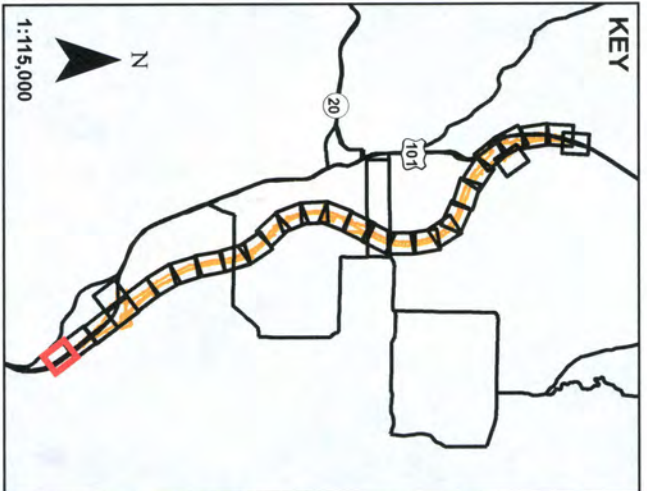
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel

**Sensitive Biological Resources**

- Offsite Mitigation Parcel
- Protected Fisheries Area
- Riparian Corridor Areas



**Sheet B-1**

**Riparian Habitat Impacts**

Willits Bypass Project

Sensitive Biological Resources

Impact Maps



**Legend**

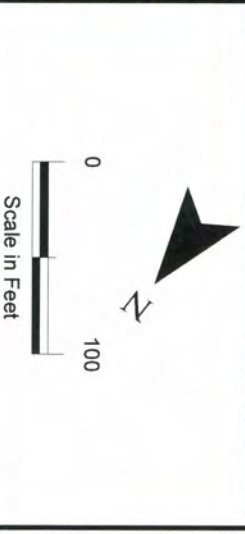
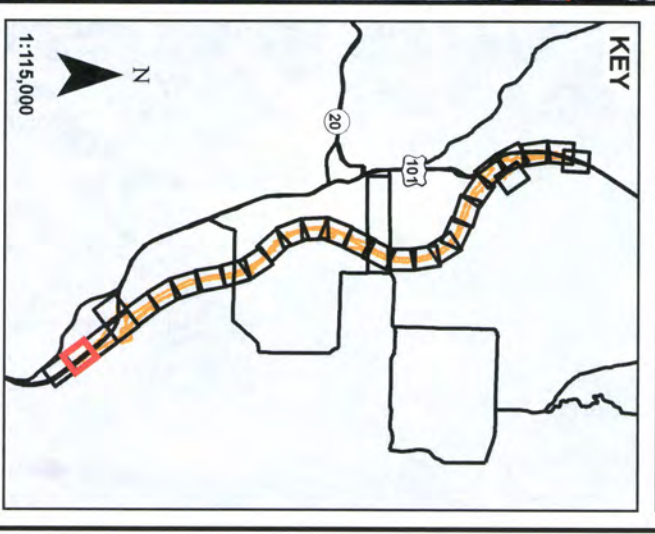
- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel

**Sensitive Biological Resources**

- Offsite Mitigation Parcel
- Protected Fisheries Area
- Riparian Corridor Areas

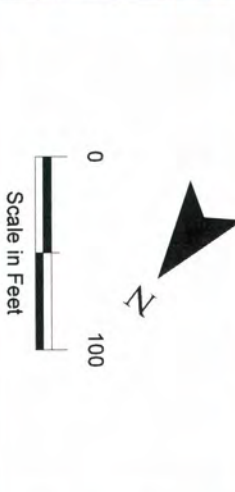
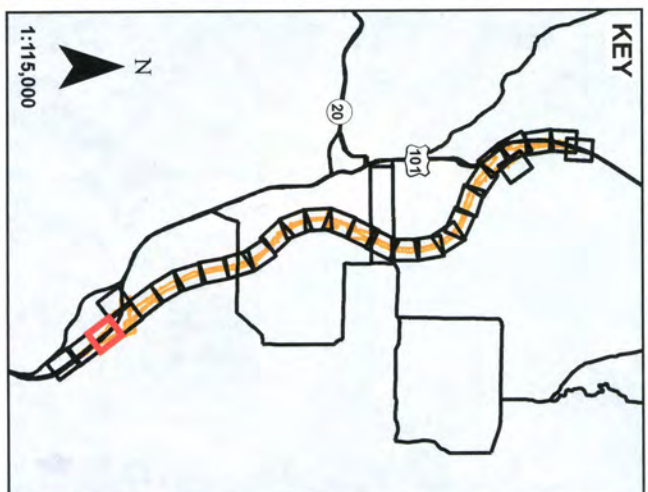


**Sheet B-2**  
**Riparian Habitat Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



**Sheet B-3**

**Riparian Habitat Impacts**

**Willits Bypass Project**

**Sensitive Biological Resources Impact Maps**



**Legend**

**Alignment - Phase 1**

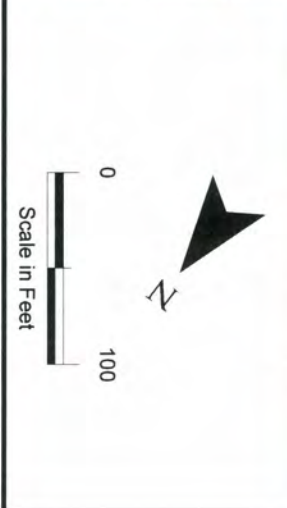
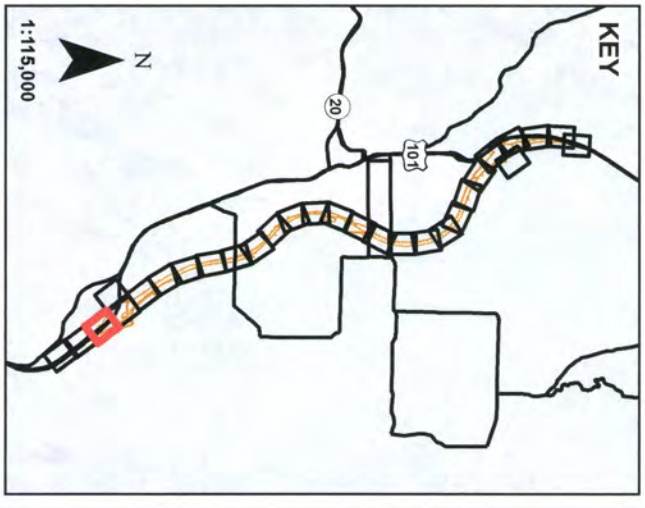
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

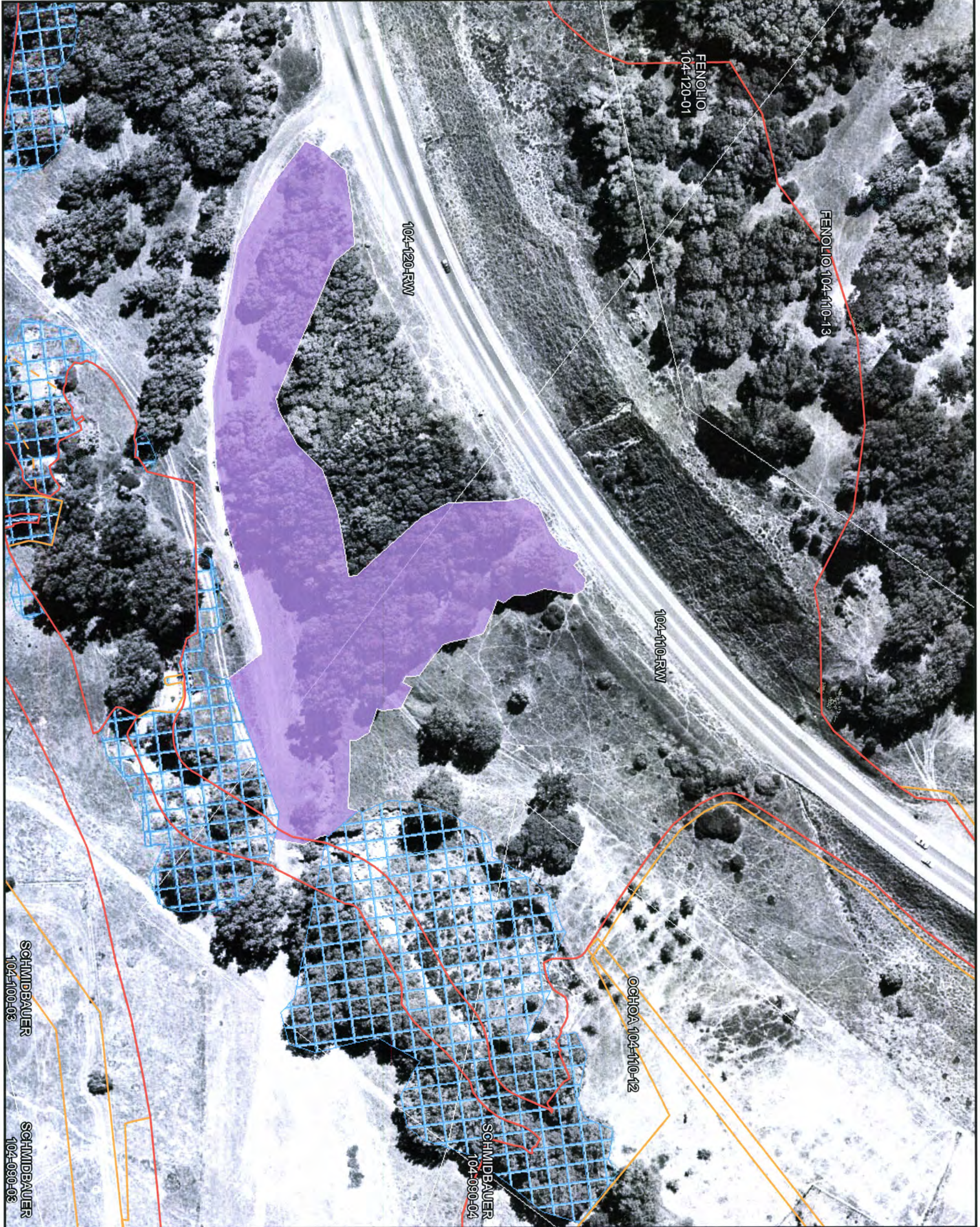
**Jurisdictional Wetlands and Other Waters**

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



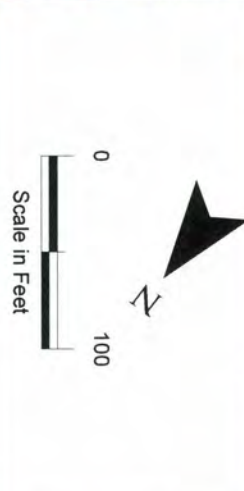
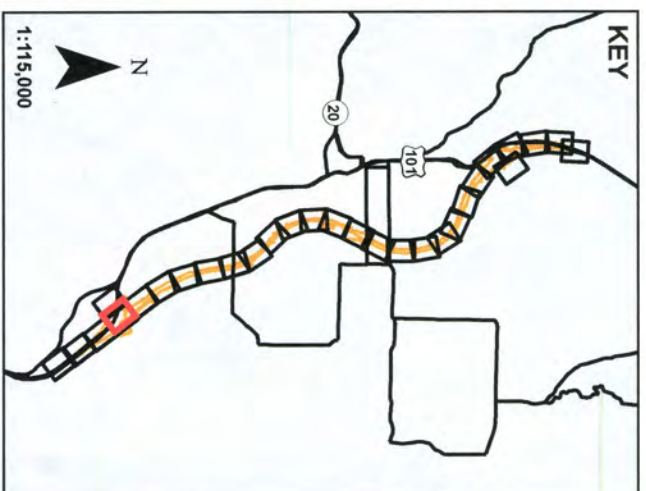
**Sheet B-4**

**Jurisdictional Wetland Impacts**  
**Willits Bypass**  
**Sensitive Biological Resources**  
**Impact Maps**



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
  - Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas

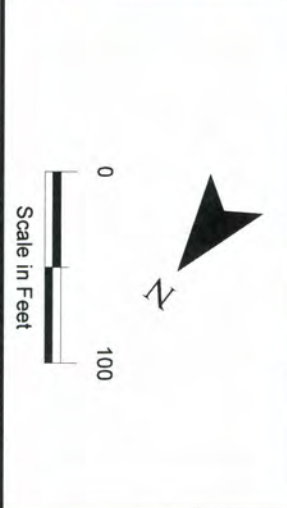
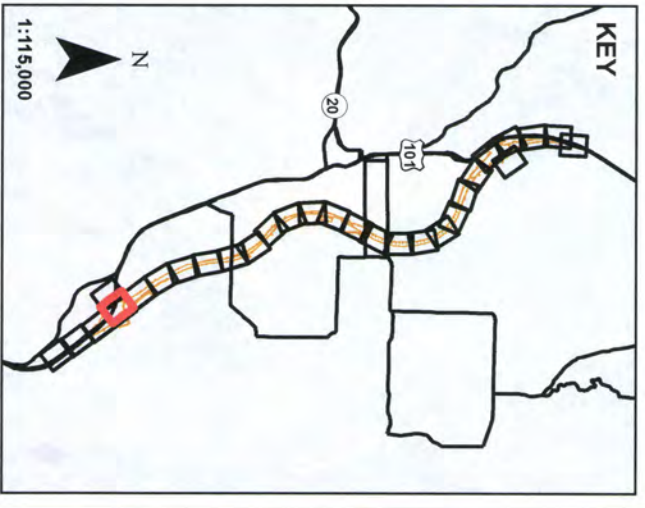


**Sheet B-5**  
**Riparian Habitat**  
**Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



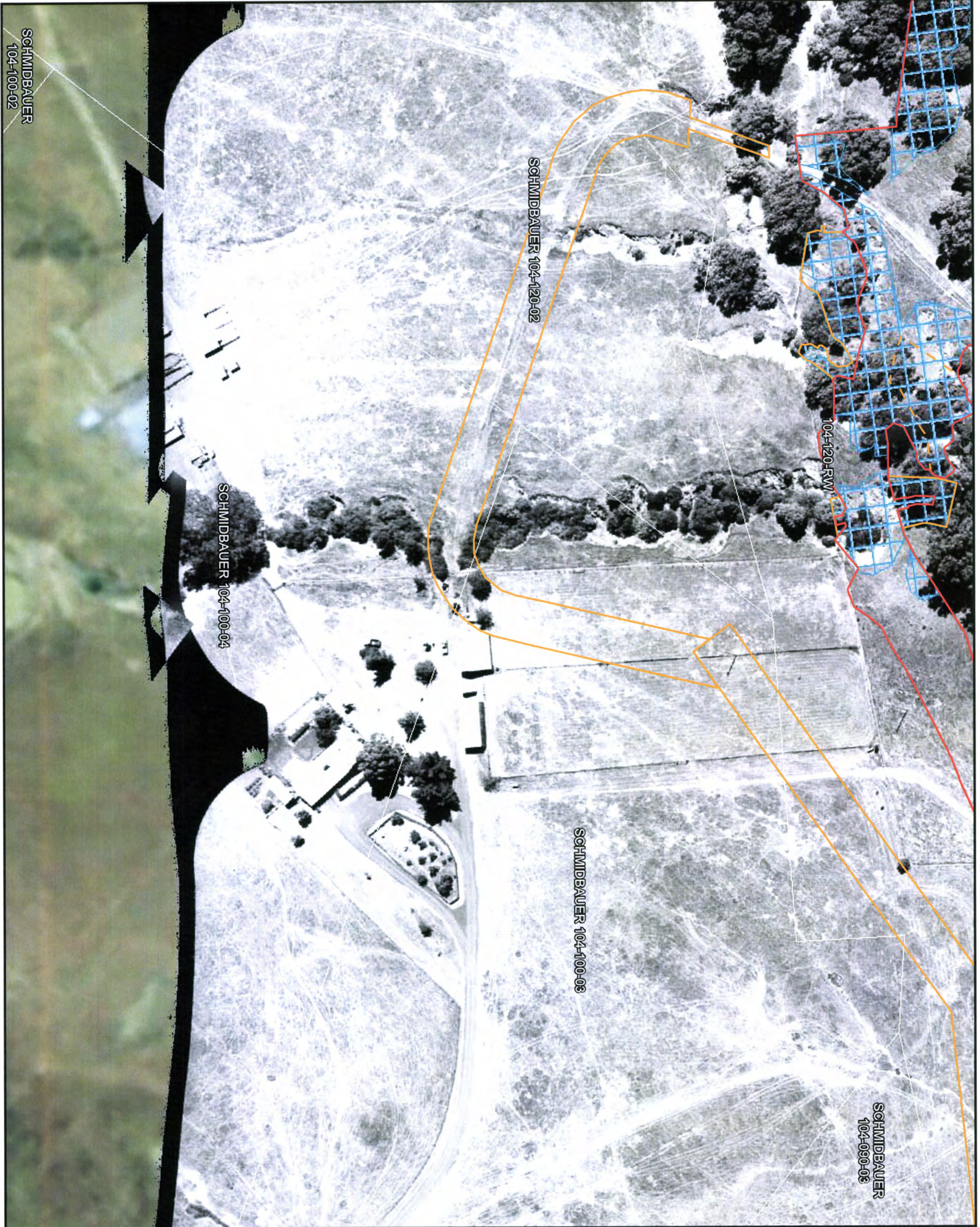
**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
- Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



**Sheet B-6**  
 Jurisdictional Wetland Impacts  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps





### Legend

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

**Sensitive Biological Resources**

- Protected Fisheries Area
- Riparian Corridor Areas

### KEY

1:115,000

N

N

0 100

Scale in Feet

**Sheet B-7**

**Riparian Habitat Impacts**

Willits Bypass Project

Sensitive Biological Resources

Impact Maps

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104-100-02

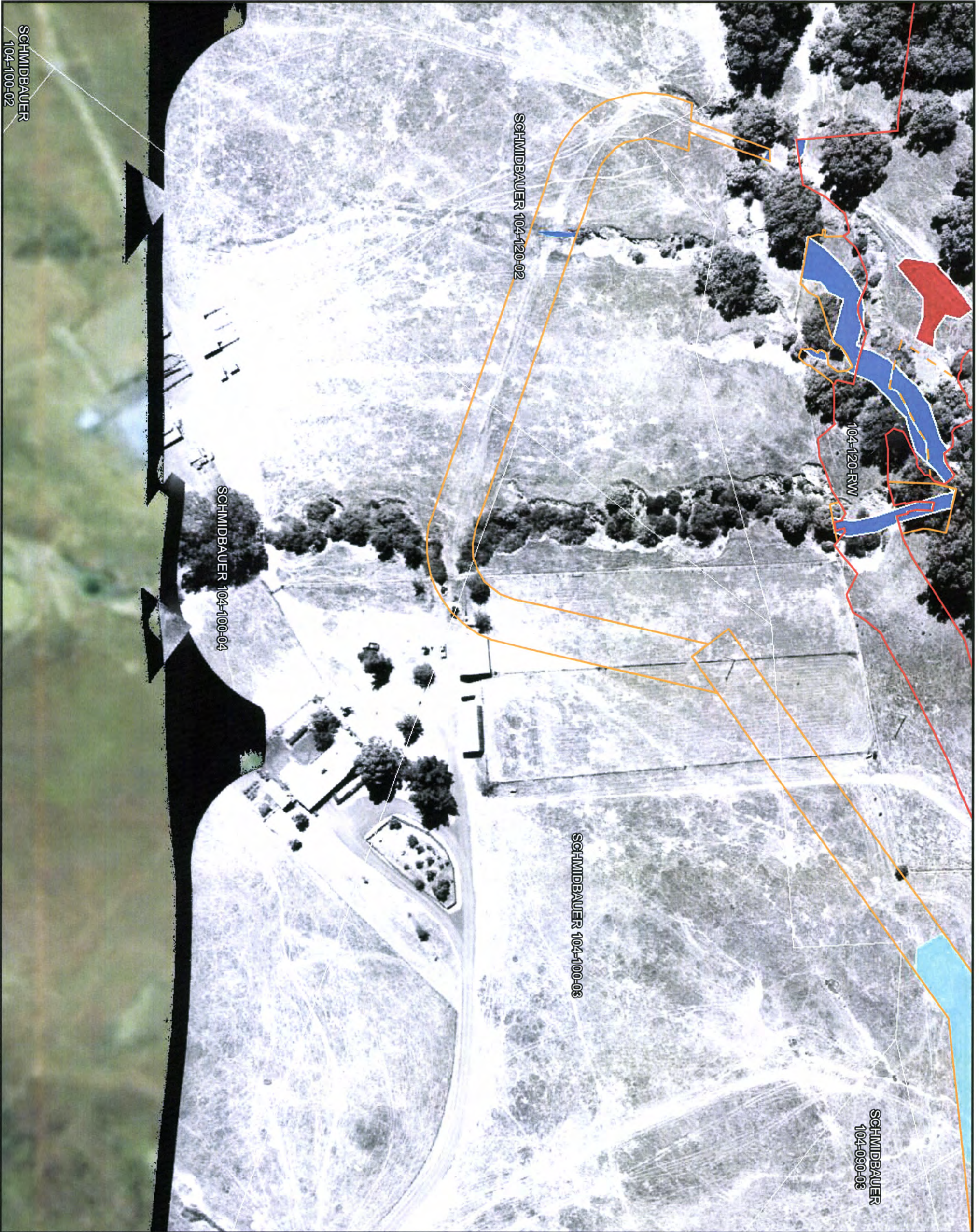
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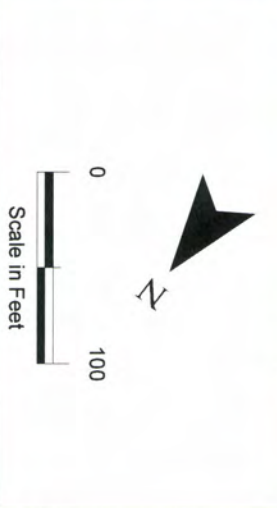
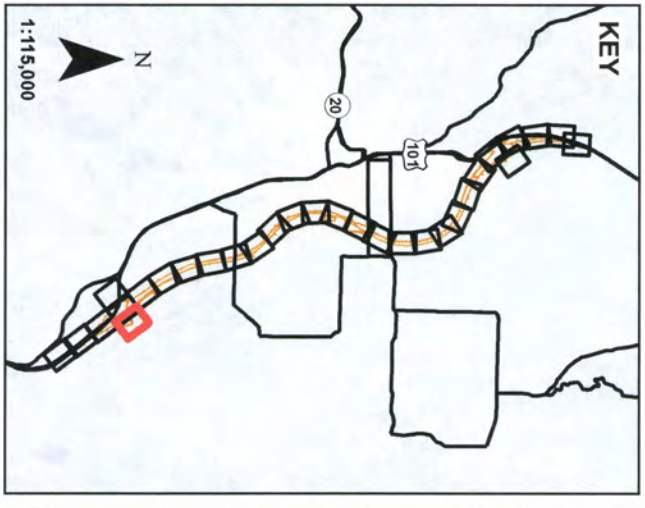
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SCHMIDBAUER  
104-090-03



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



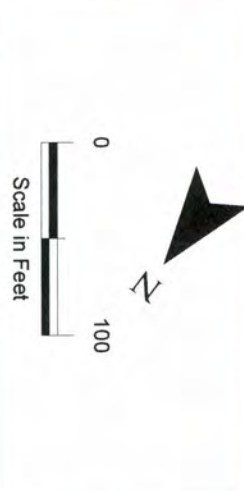
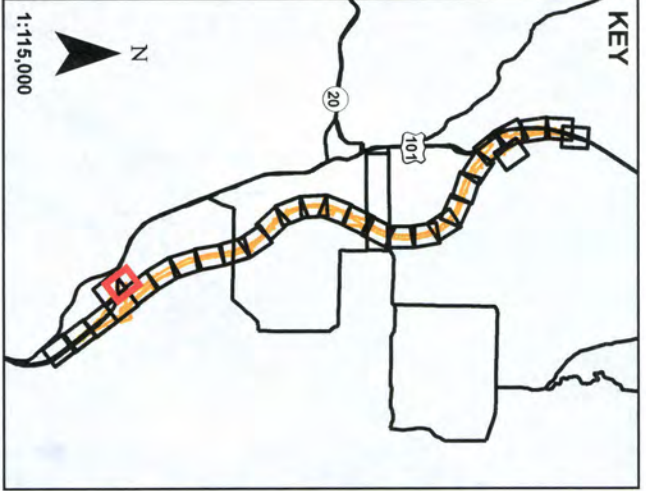
**Sheet B-8**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas



**Sheet B-9**  
**Riparian Habitat Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

**Alignment - Phase 1**

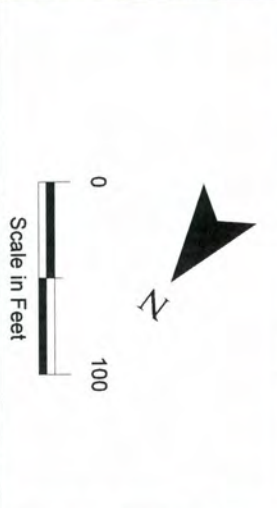
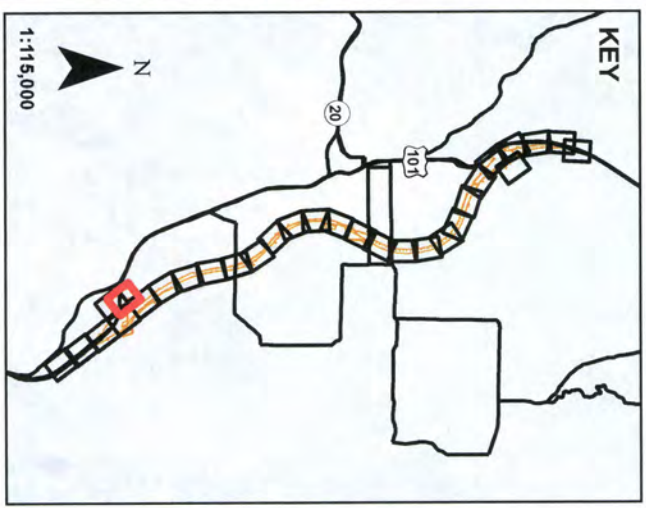
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

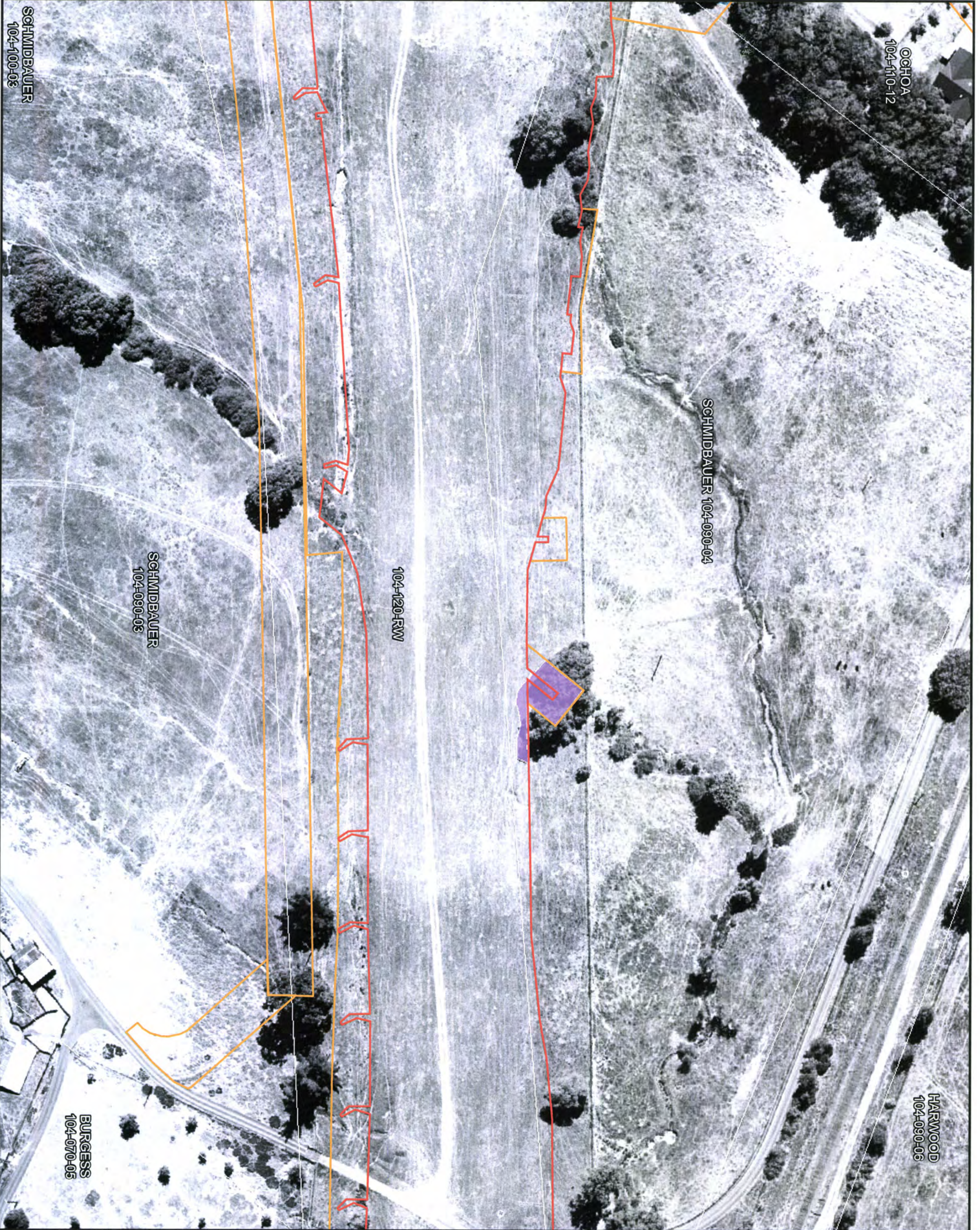
**Jurisdictional Wetlands and Other Waters**

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



**Sheet B-10**

**Jurisdictional Wetland Impacts**  
Willits Bypass  
Sensitive Biological Resources  
Impact Maps



**Legend**

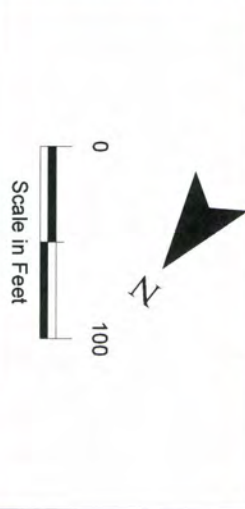
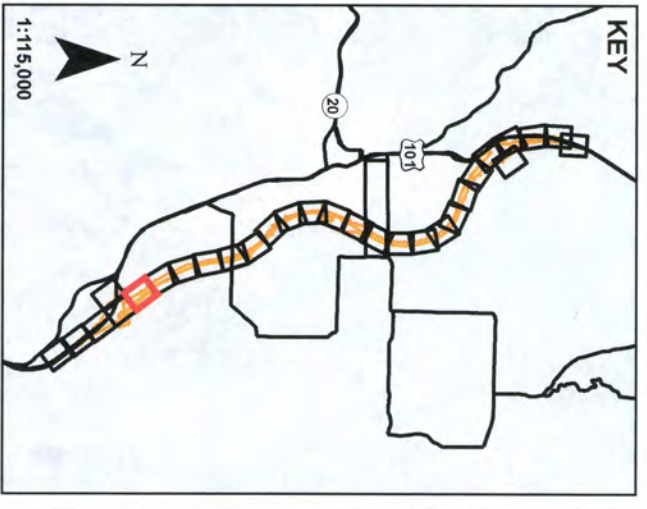
- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

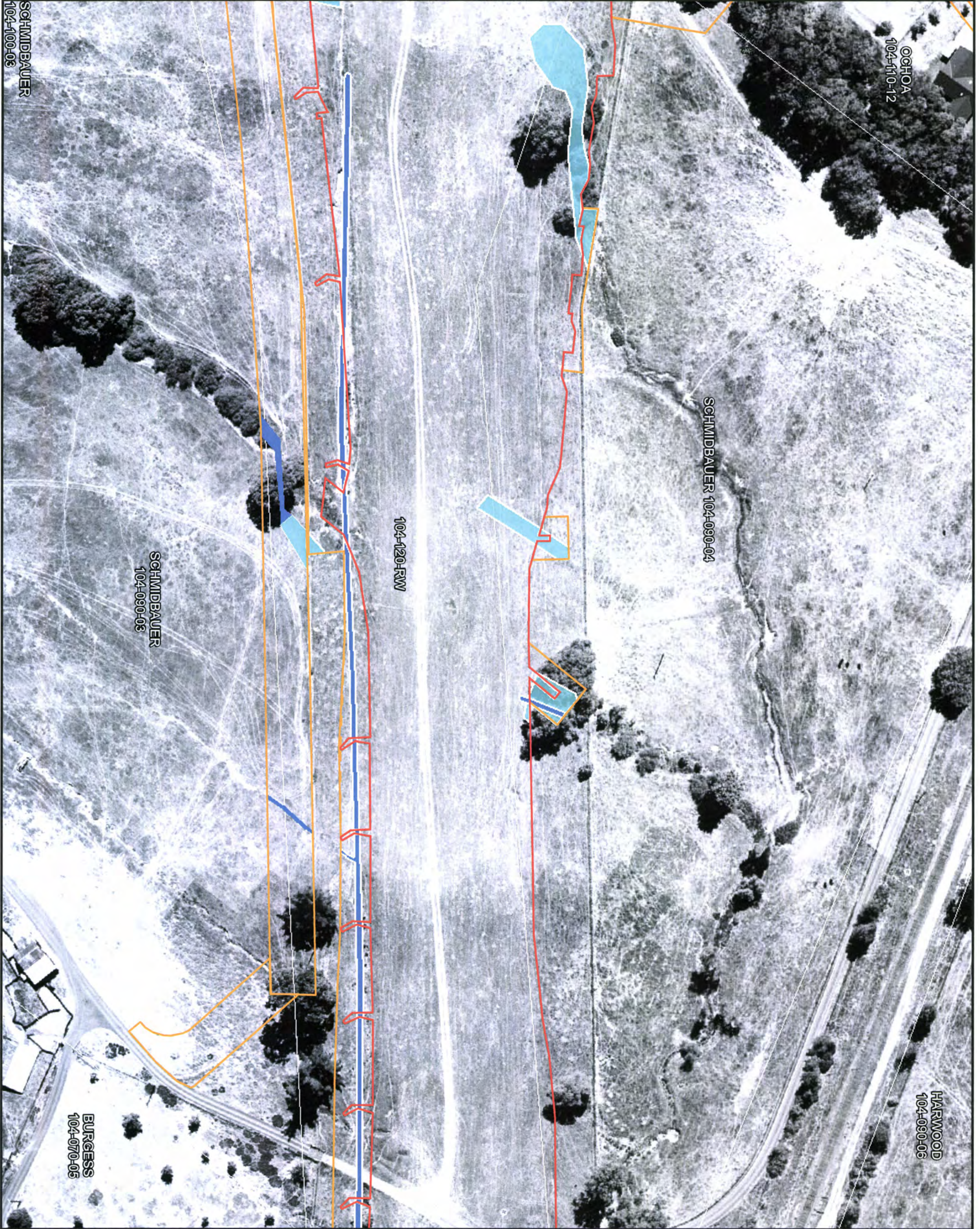
- Permanent
- Temporary
- Support Columns

**Sensitive Biological Resources**

- Offsite Mitigation Parcel
- Protected Fisheries Area
- Riparian Corridor Areas

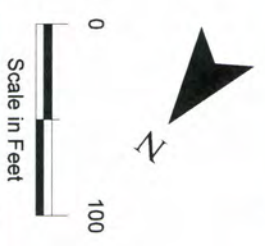
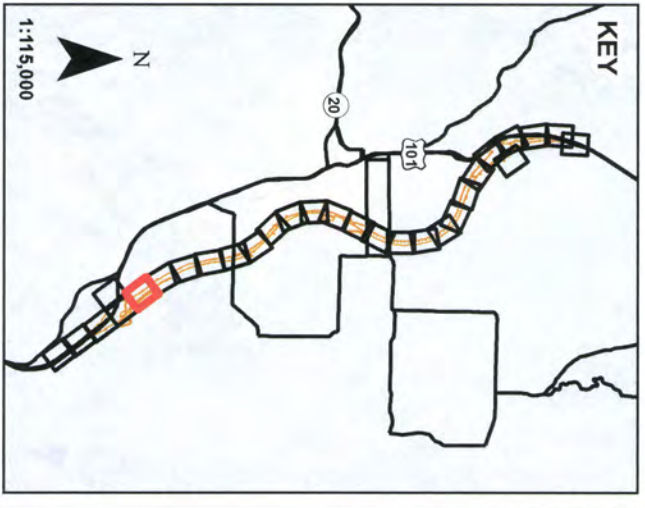


**Sheet B-11**  
**Riparian Habitat**  
**Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



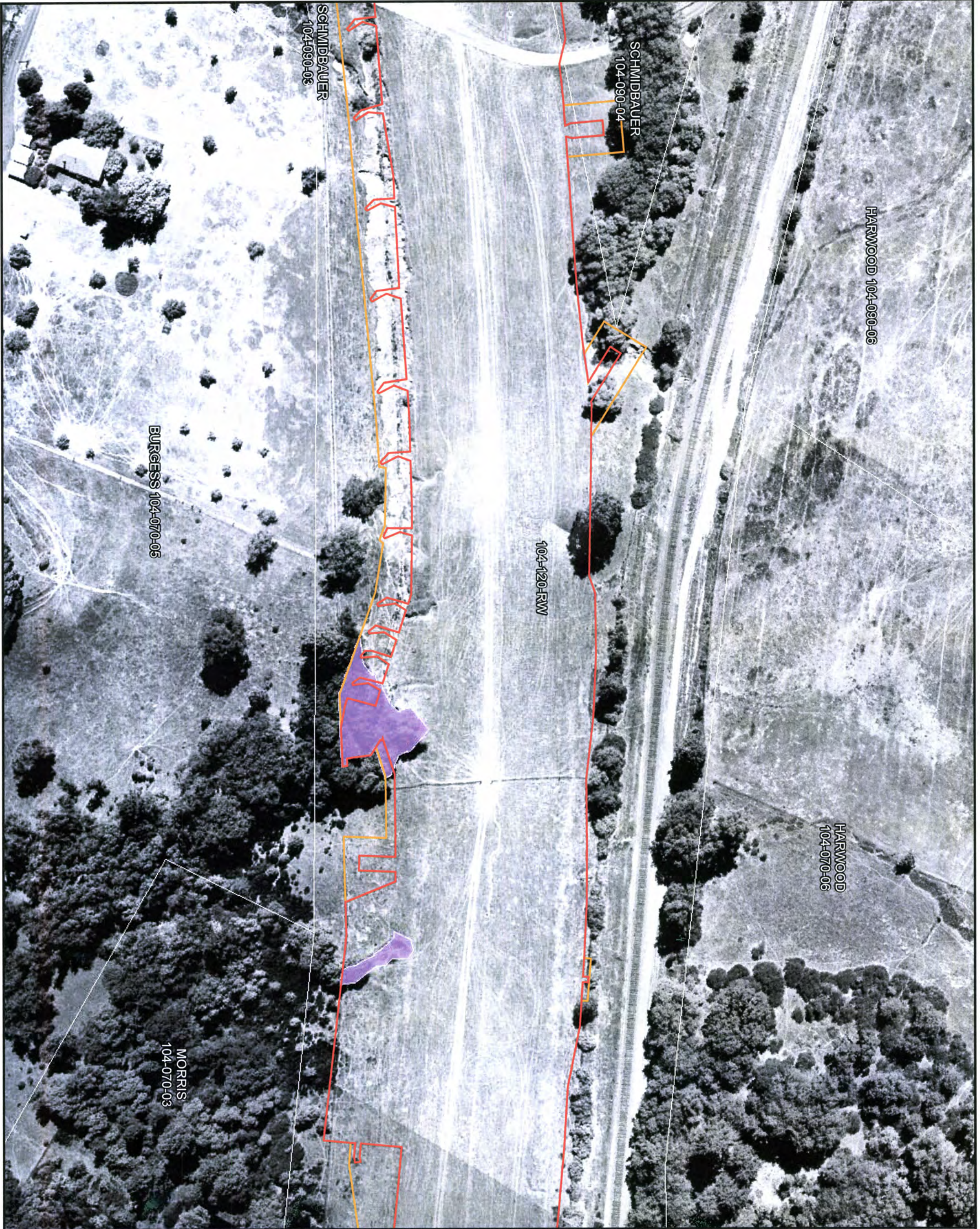
**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
- Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



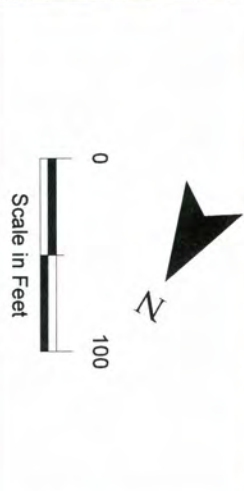
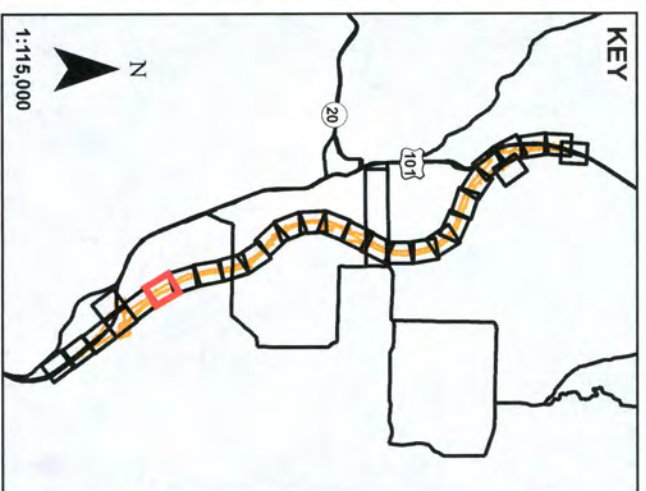
**Sheet B-12**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
  - Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas



**Sheet B-13**  
 Riparian Habitat  
 Impacts  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

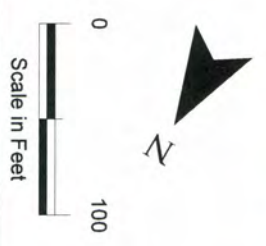
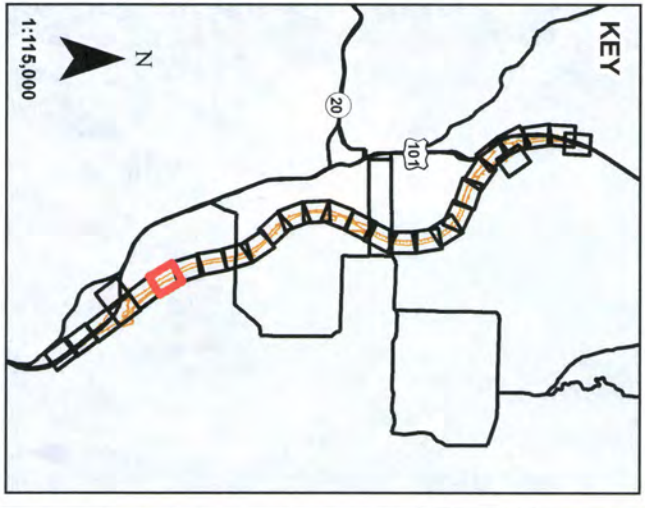
- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

**Jurisdictional Wetlands and Other Waters**

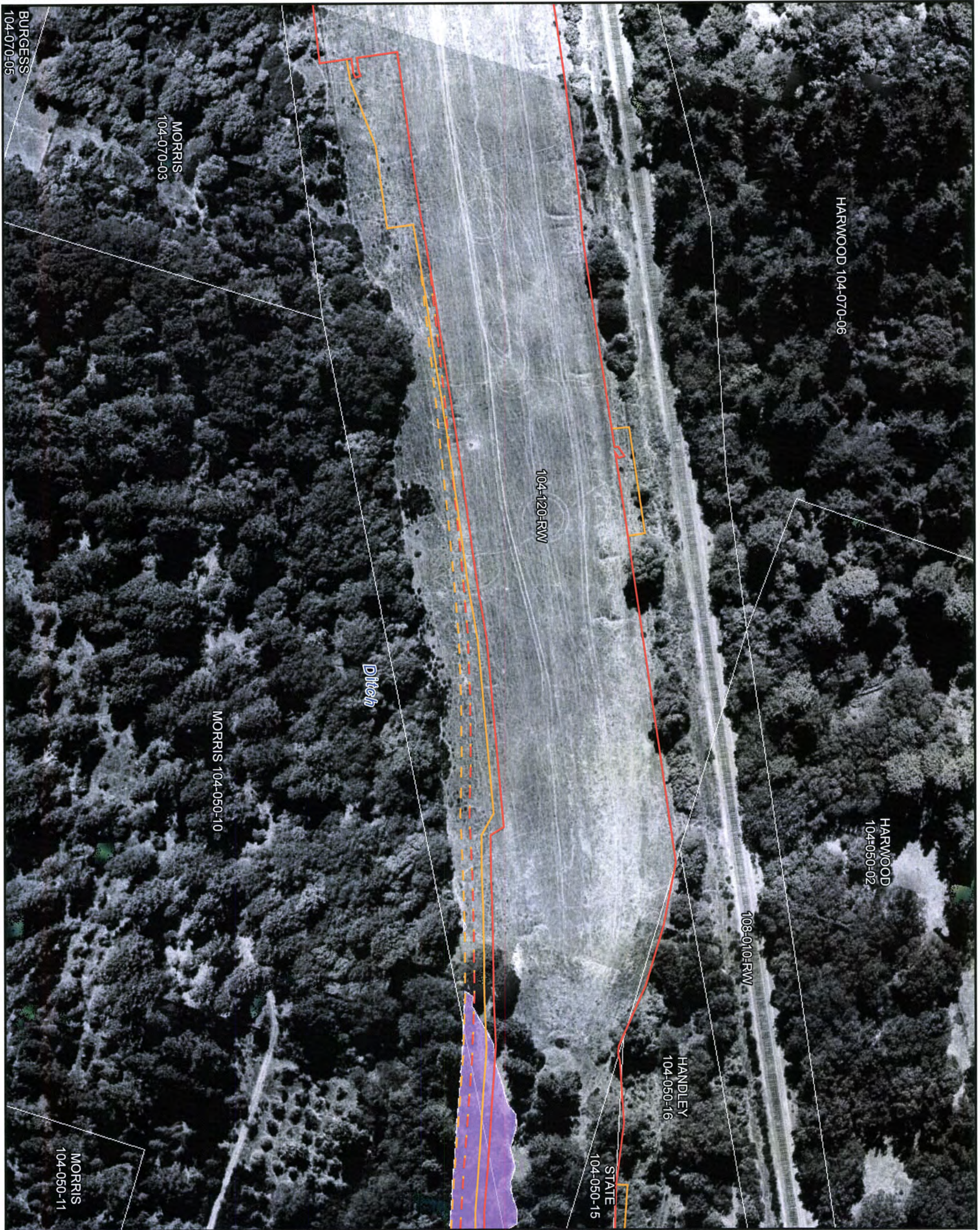
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



**Sheet B-14**

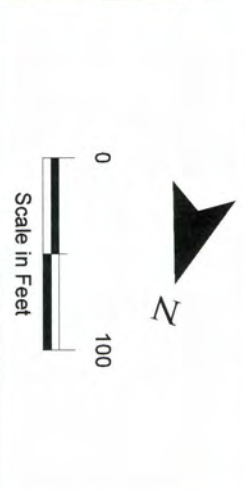
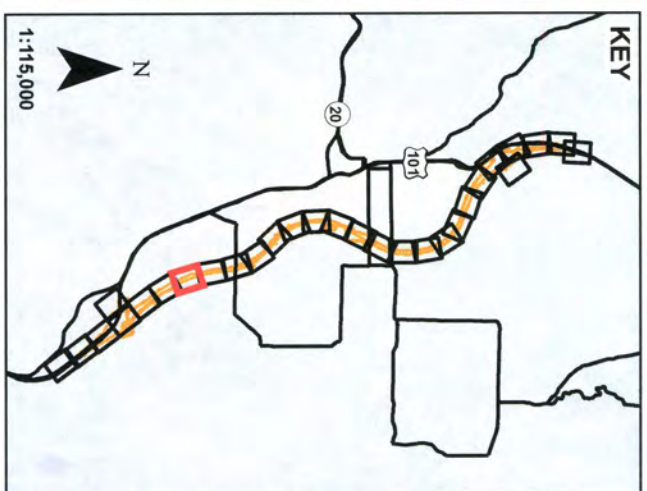
**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



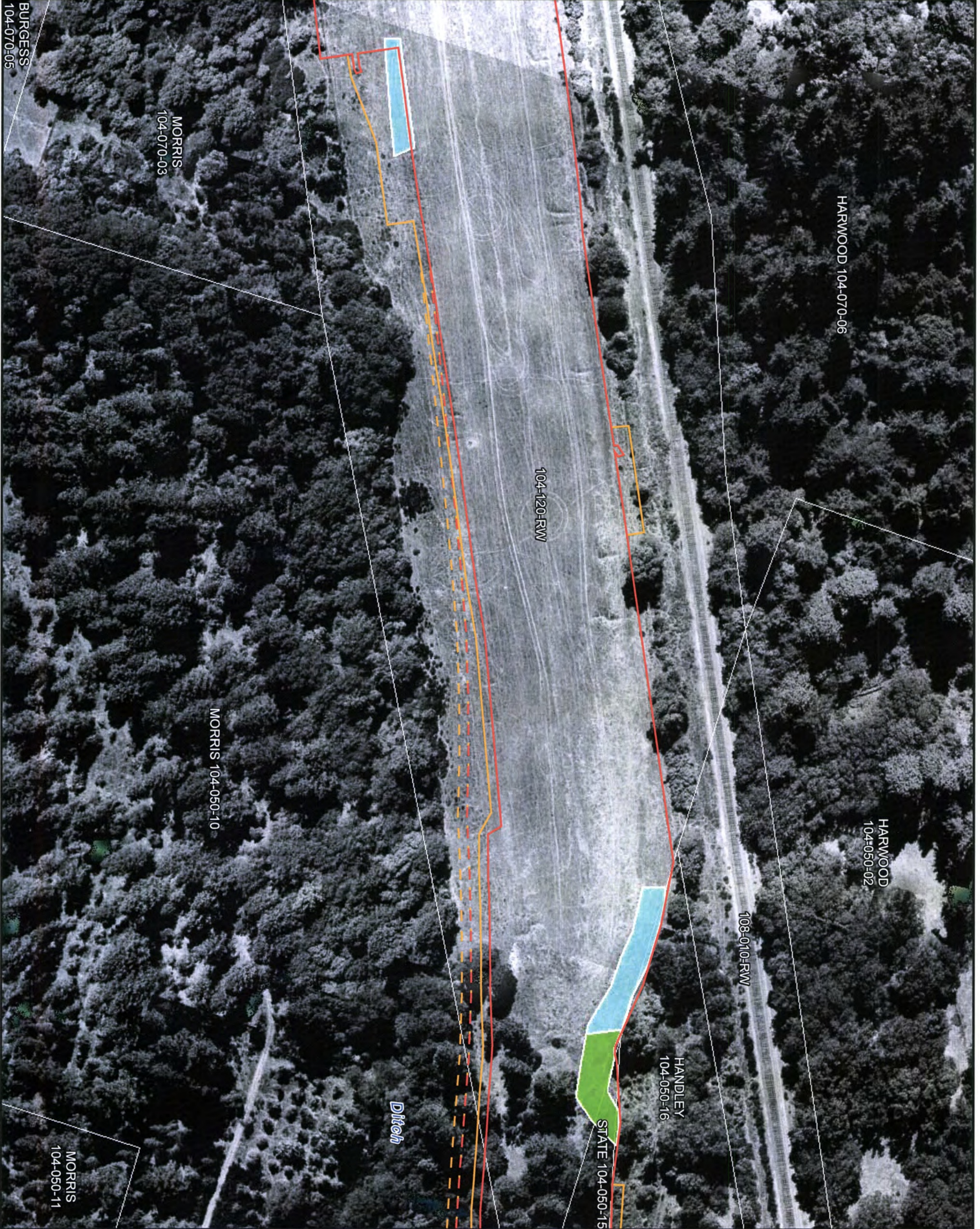


**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



**Sheet B-15**  
**Riparian Habitat**  
**Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

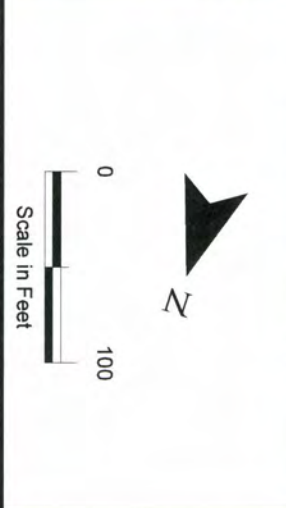
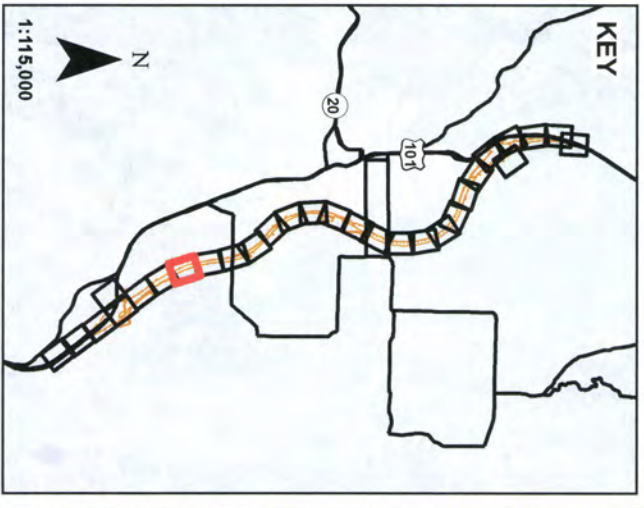
- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

**Jurisdictional Wetlands and Other Waters**

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



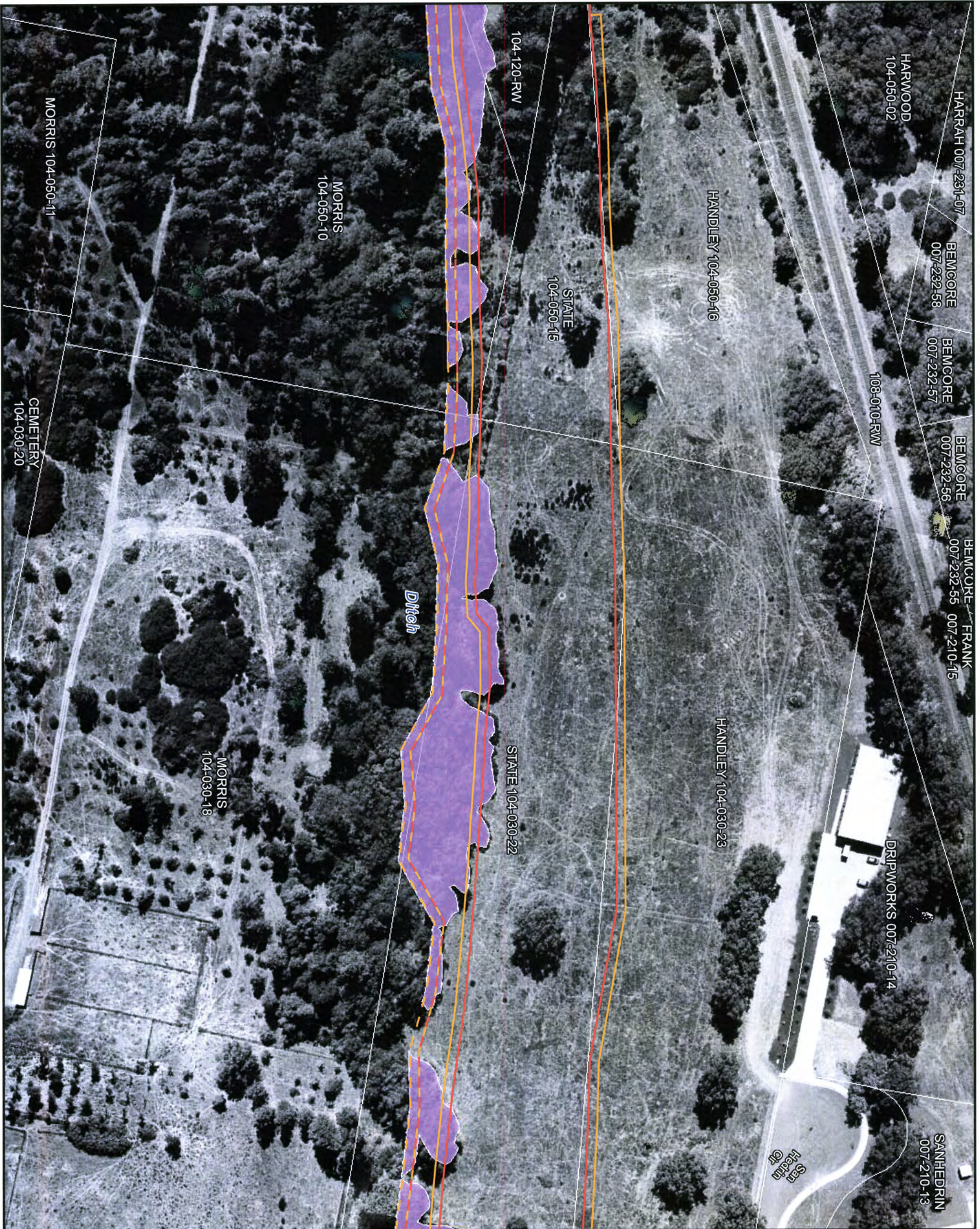
**Sheet B-16**

**Jurisdictional Wetland Impacts**

**Willits Bypass**

**Sensitive Biological Resources**

**Impact Maps**



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas

**KEY**

1:115,000

Scale in Feet

0 100

**Sheet B-17**

**Riparian Habitat Impacts**

Willits Bypass Project

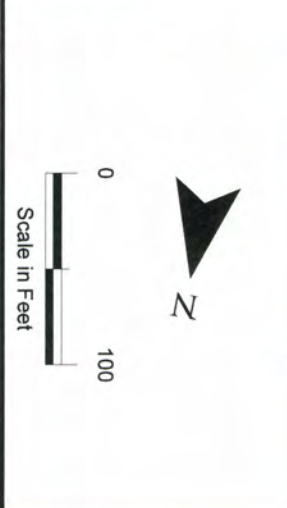
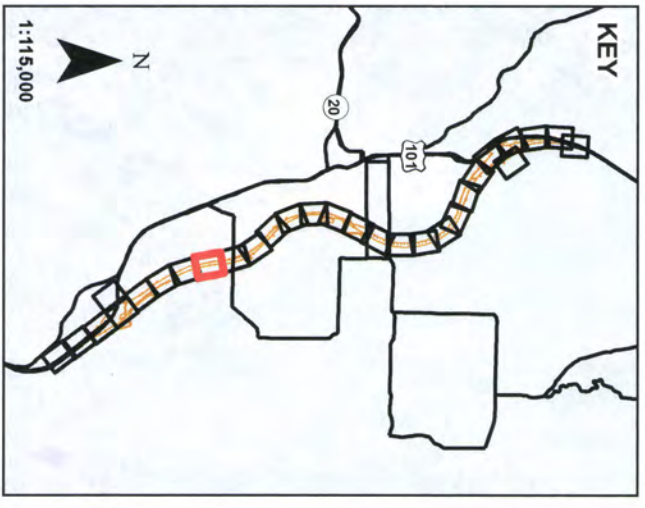
Sensitive Biological Resources

Impact Maps



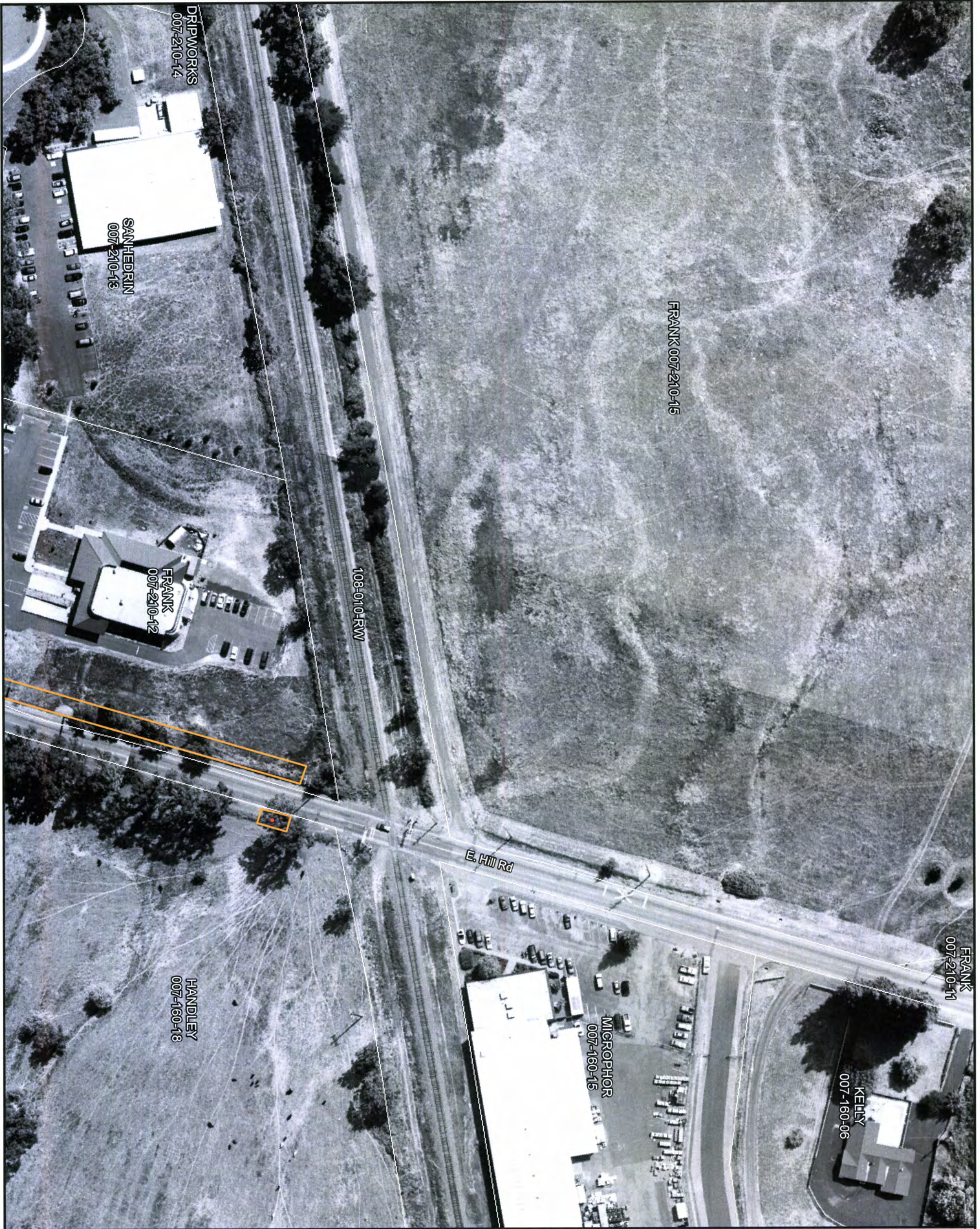
**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
  - Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



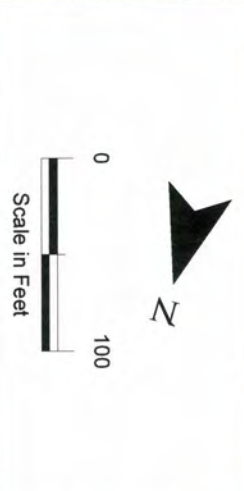
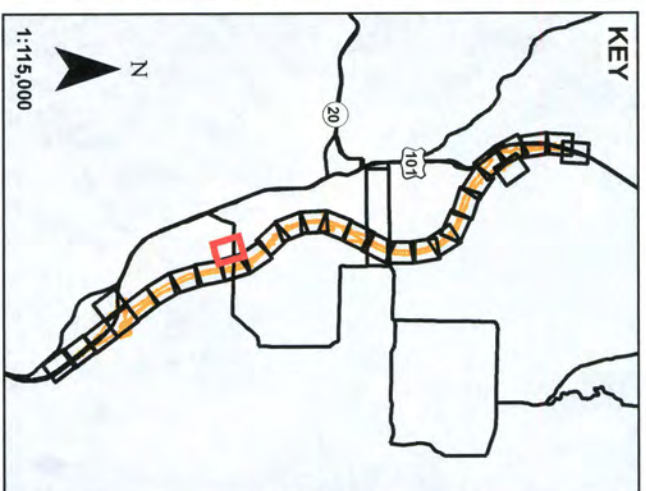
**Sheet B-18**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



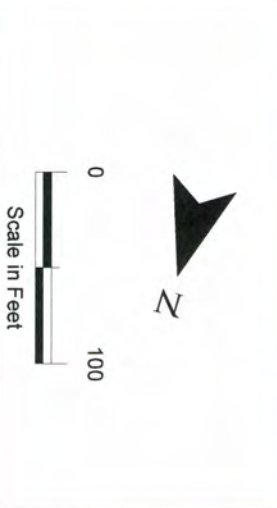
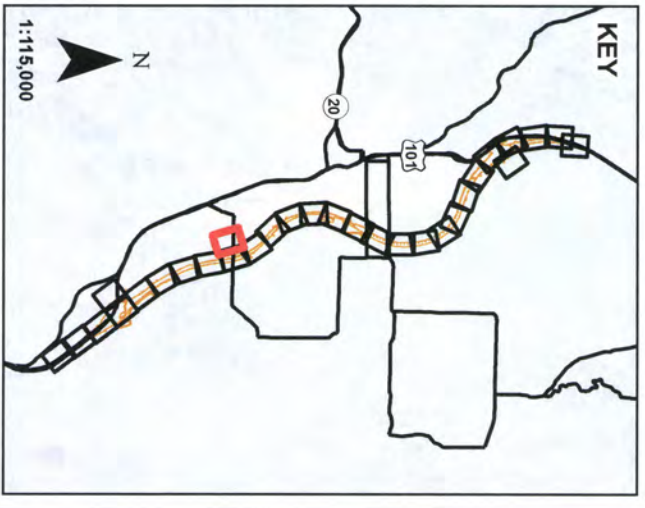
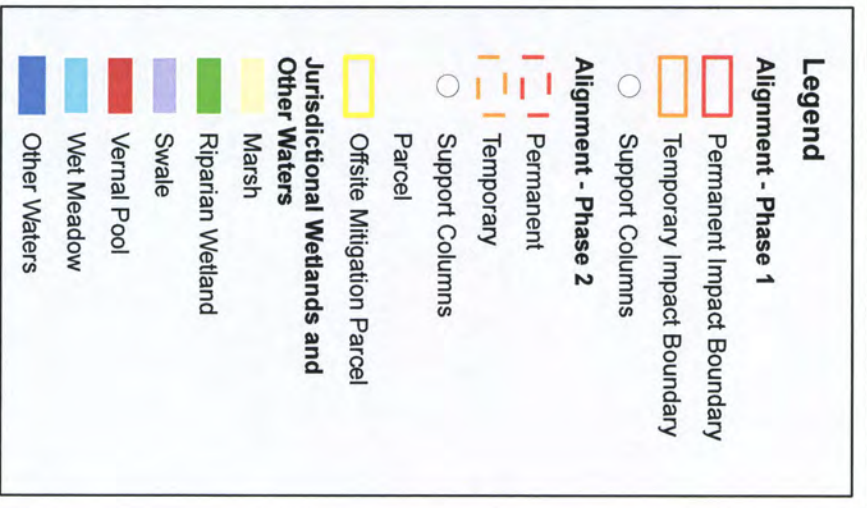
**Sheet B-19**

**Riparian Habitat Impacts**

Willits Bypass Project

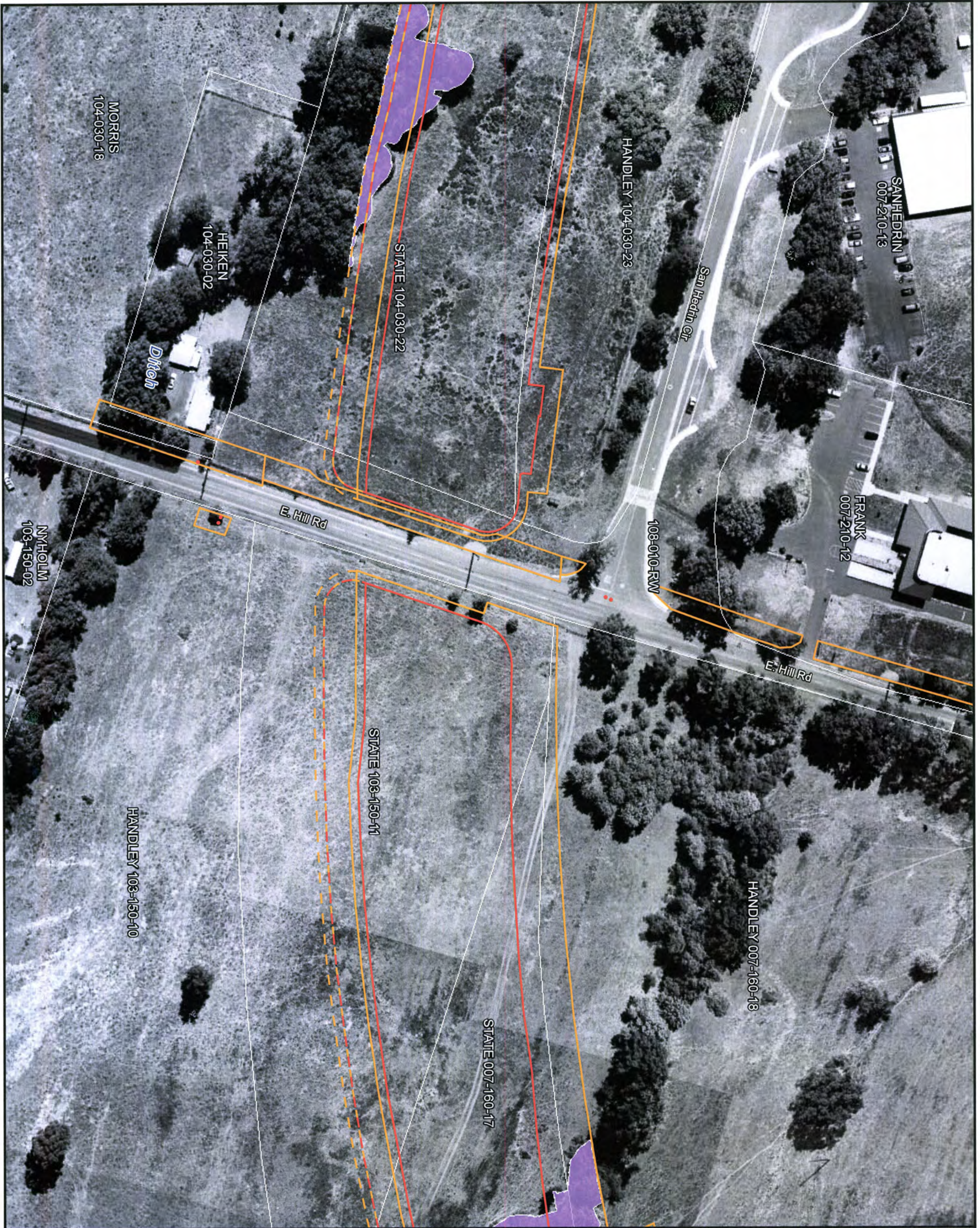
Sensitive Biological Resources

Impact Maps



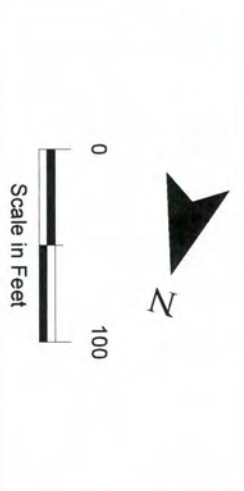
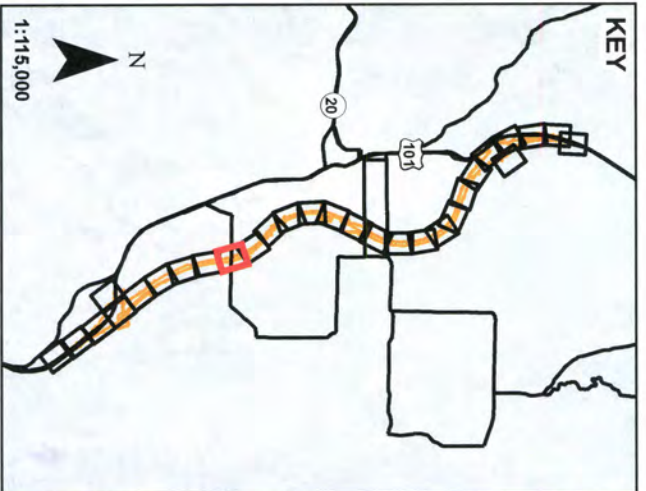
**Sheet B-20**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



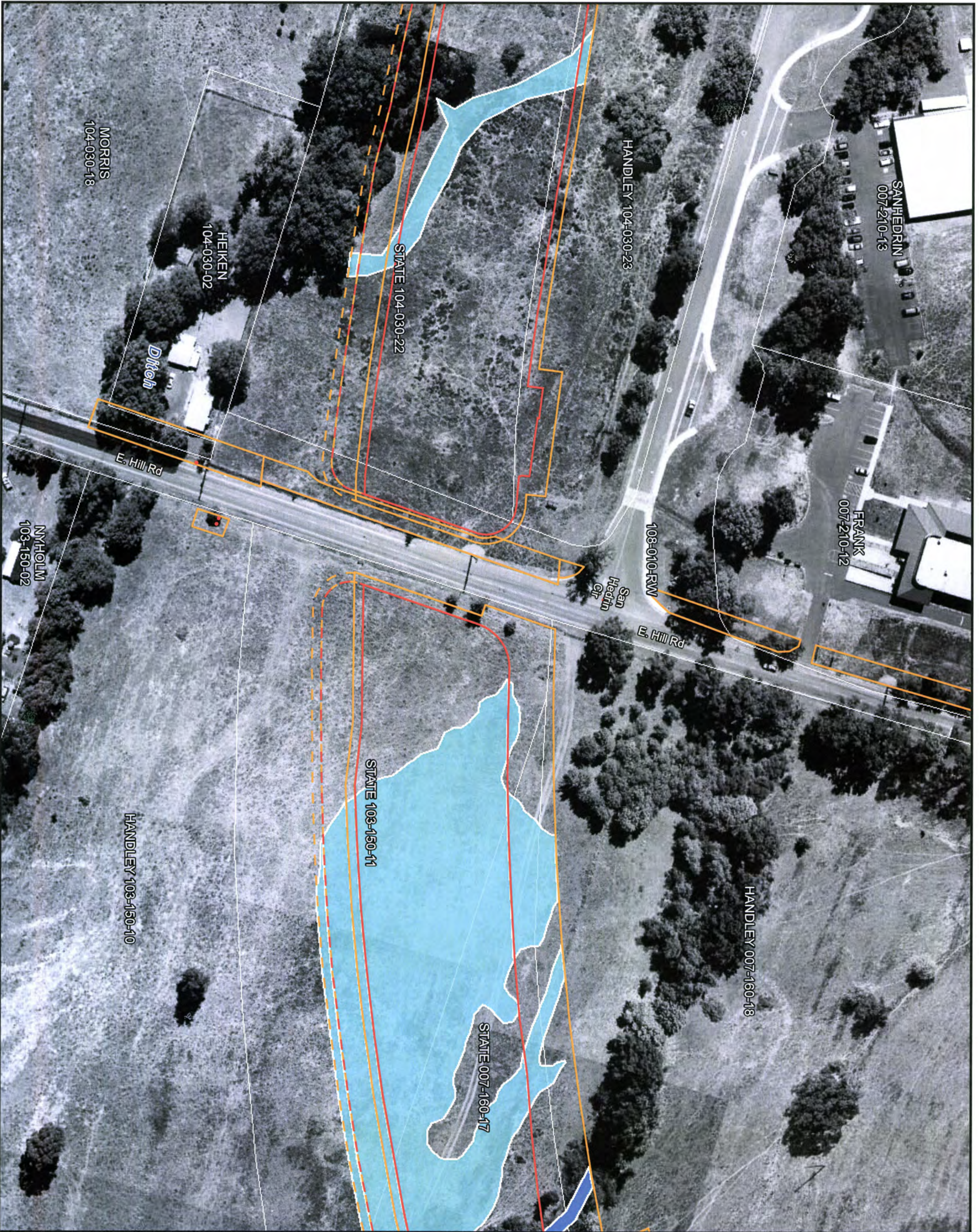
**Sheet B-21**

**Riparian Habitat Impacts**

Willits Bypass Project

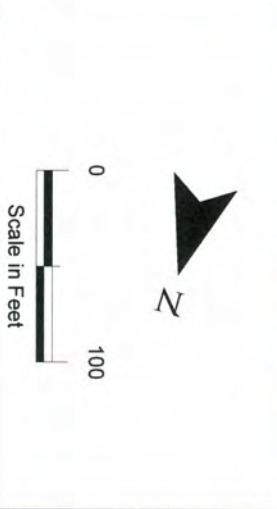
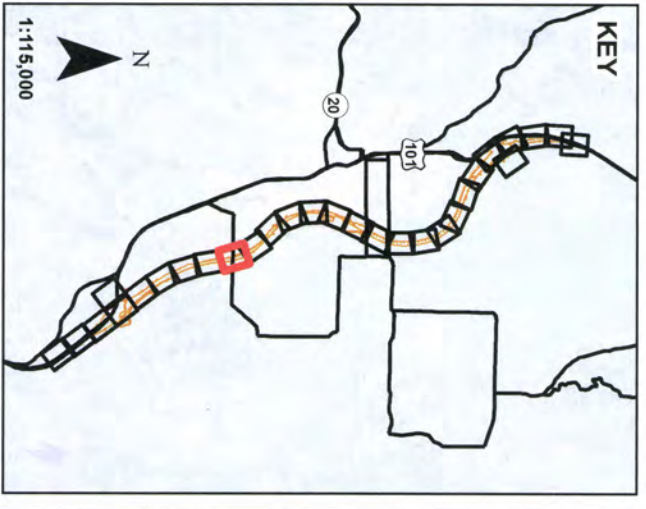
Sensitive Biological Resources

Impact Maps



**Legend**

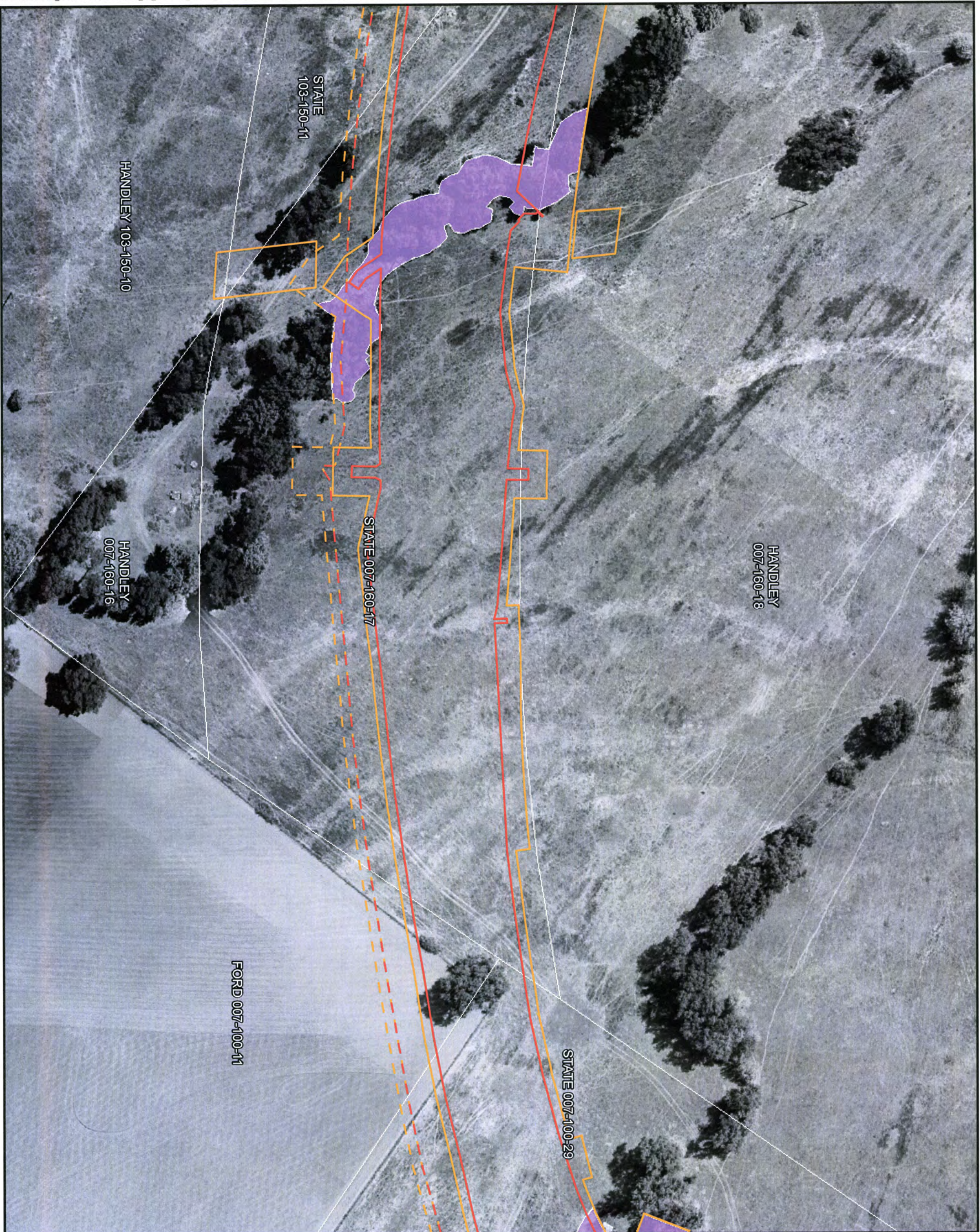
- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



**Sheet B-22**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps





**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

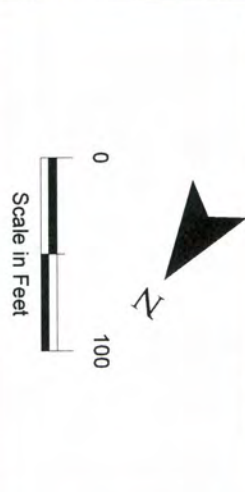
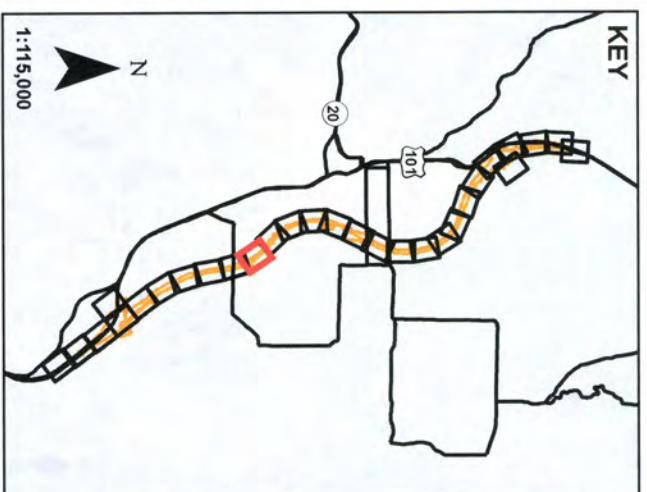
- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

**Sensitive Biological Resources**

- Protected Fisheries Area
- Riparian Corridor Areas



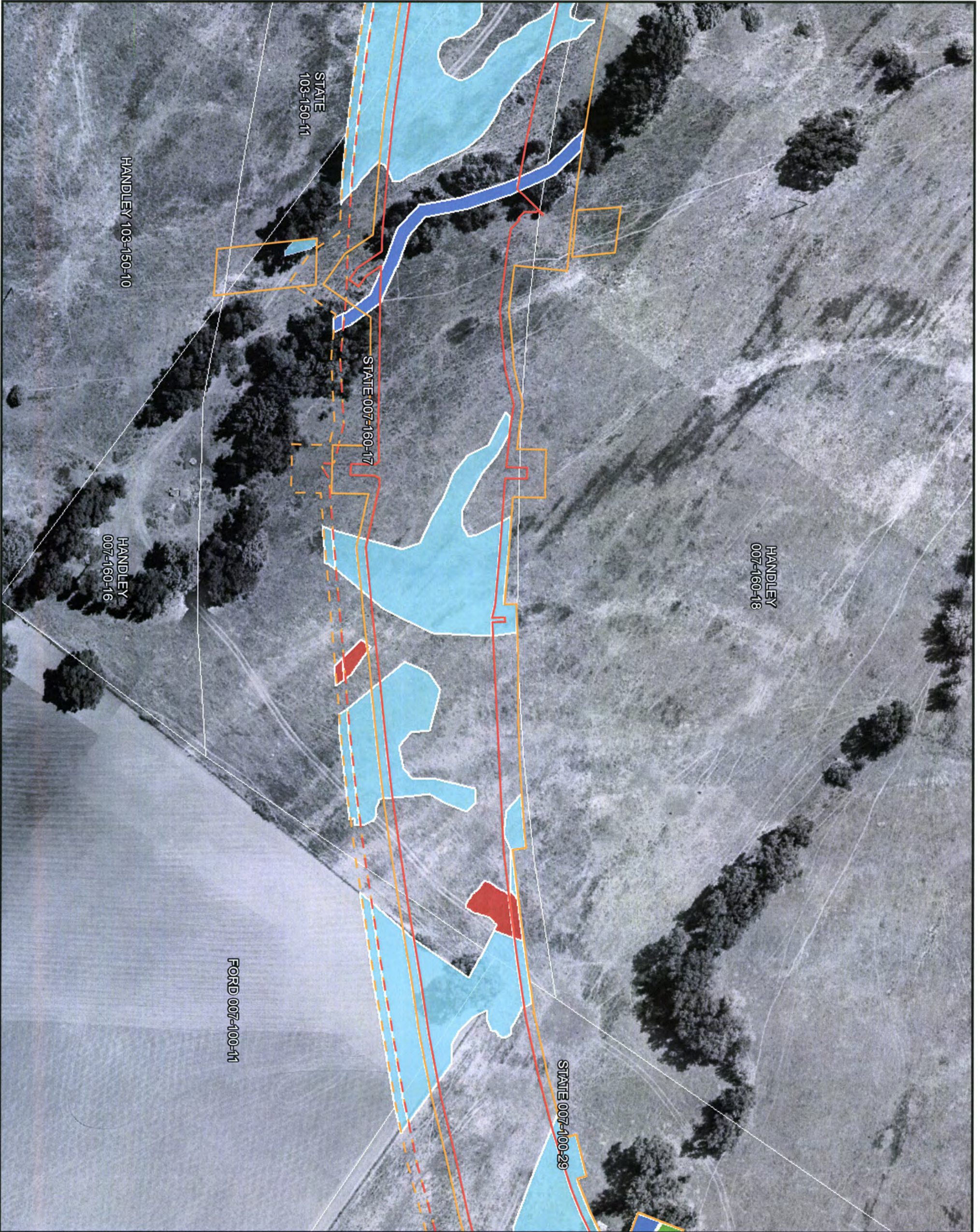
**Sheet B-23**

**Riparian Habitat Impacts**

Willits Bypass Project

Sensitive Biological Resources

Impact Maps



**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

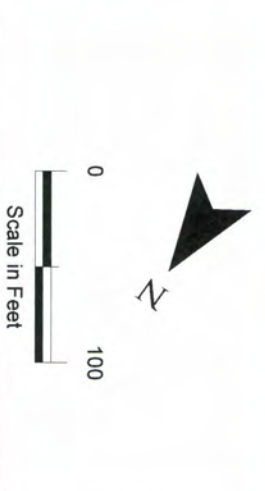
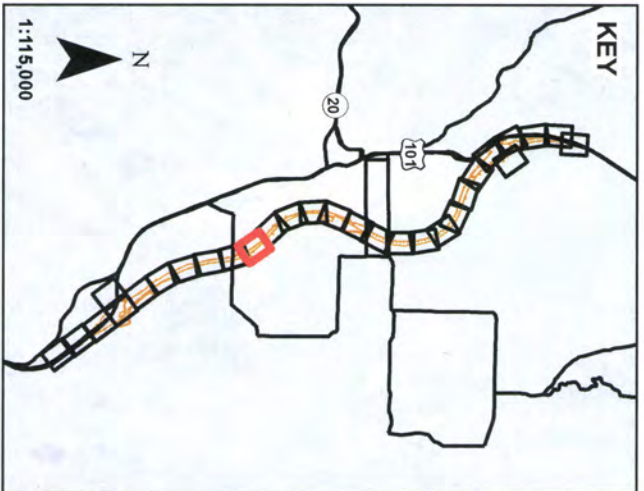
- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

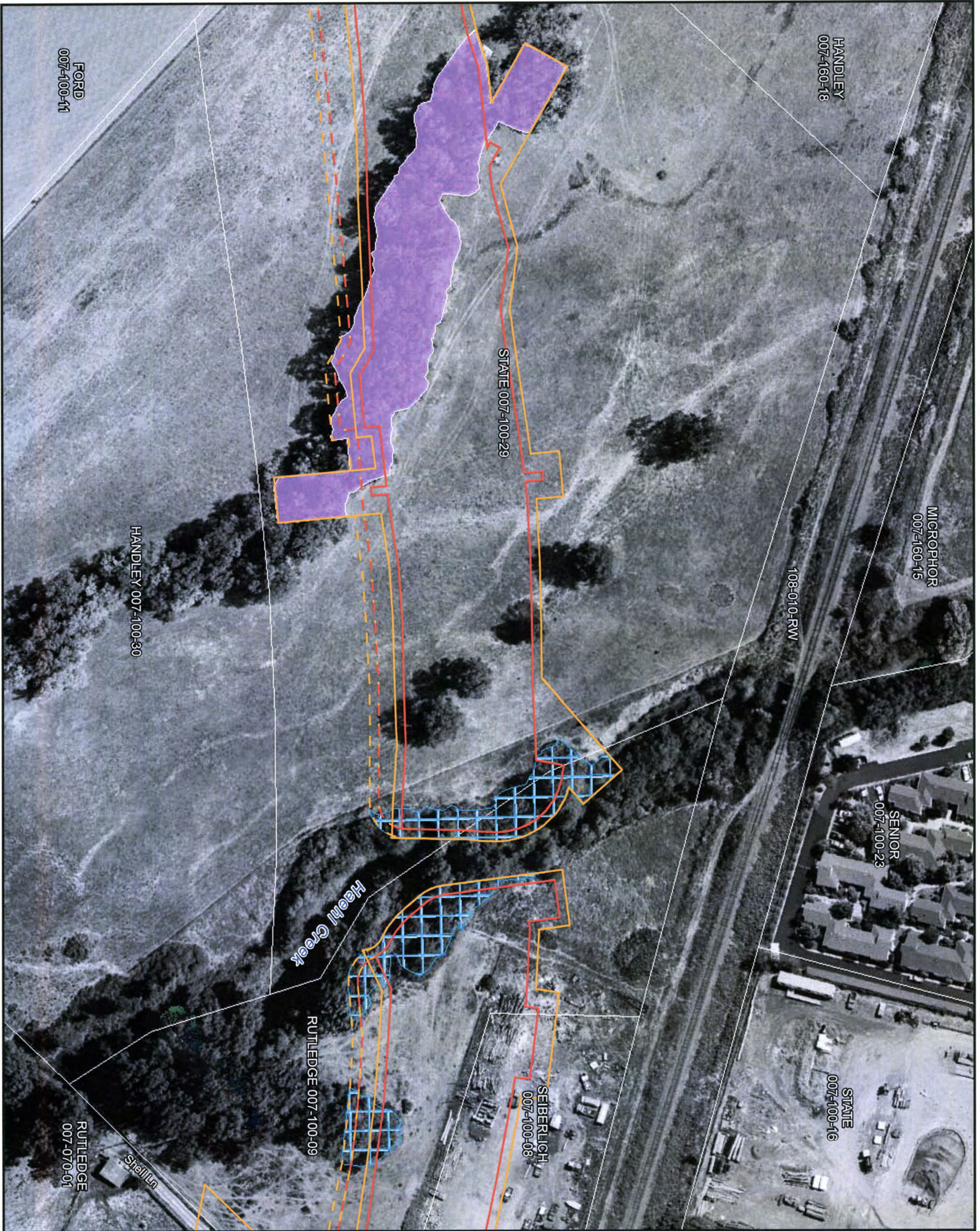
**Jurisdictional Wetlands and Other Waters**

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



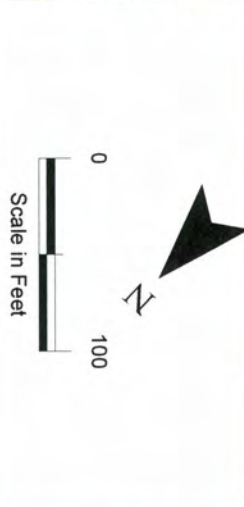
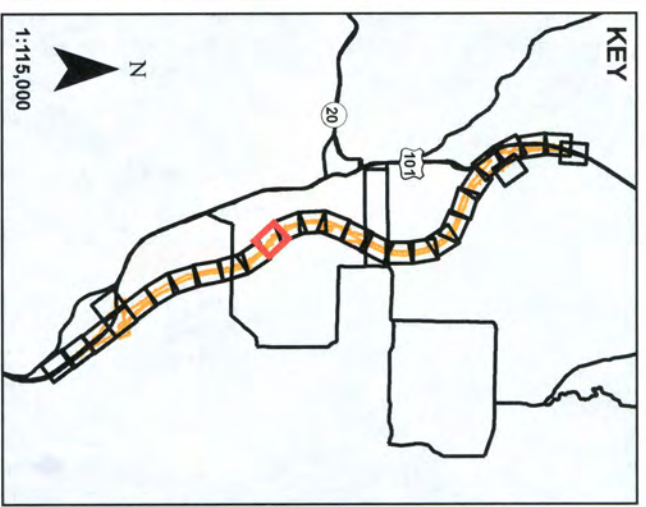
**Sheet B-24**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Sensitive Biological Resources**
  - Protected Fisheries Area
  - Riparian Corridor Areas



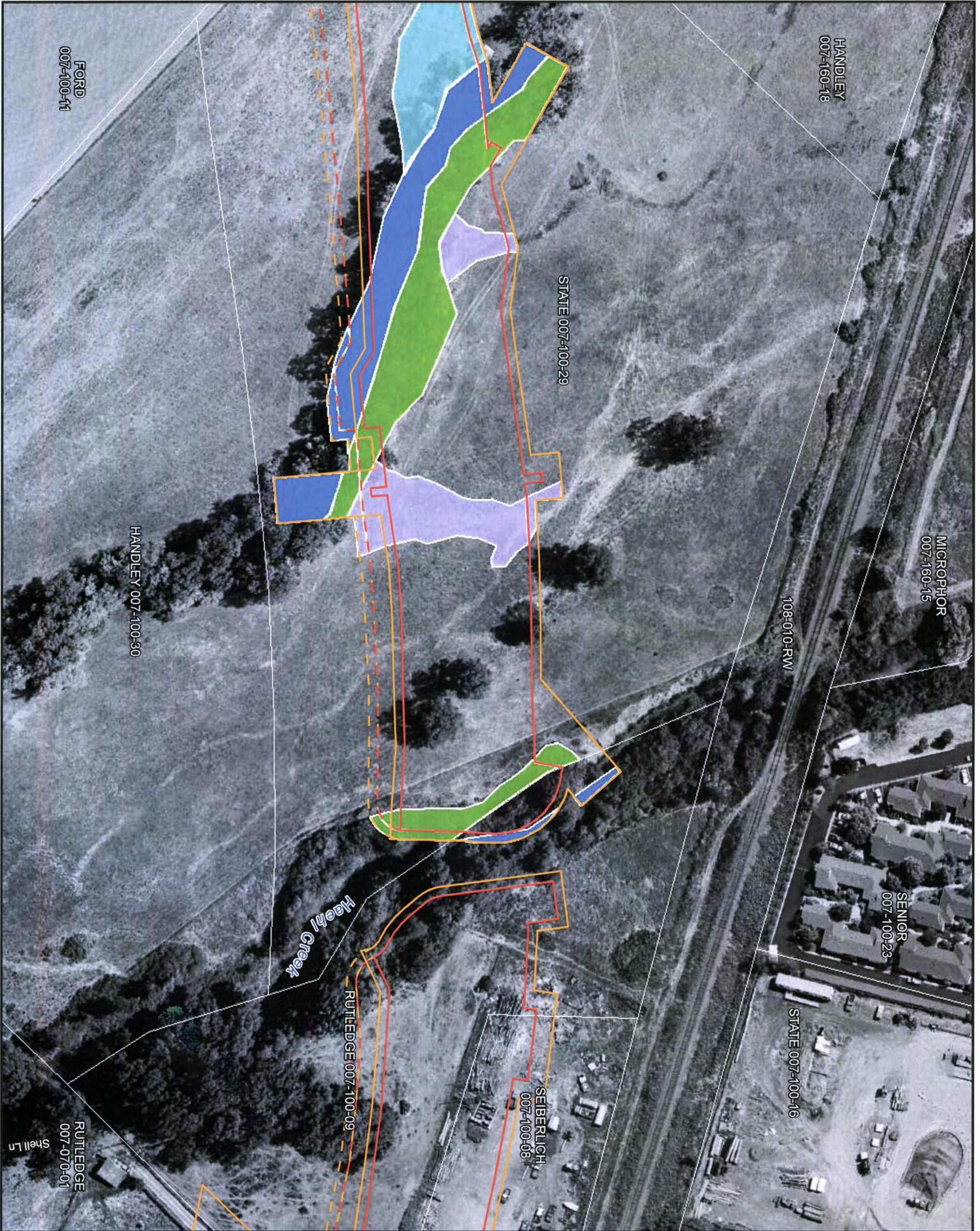
**Sheet B-25**

**Riparian Habitat Impacts**

Willits Bypass Project

Sensitive Biological Resources

Impact Maps



**Legend**

**Alignment - Phase 1**

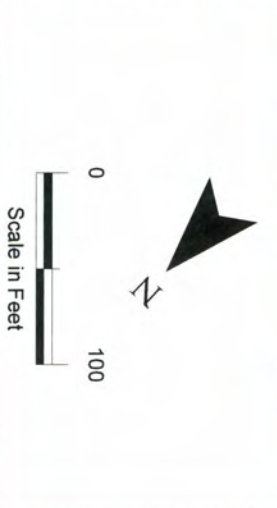
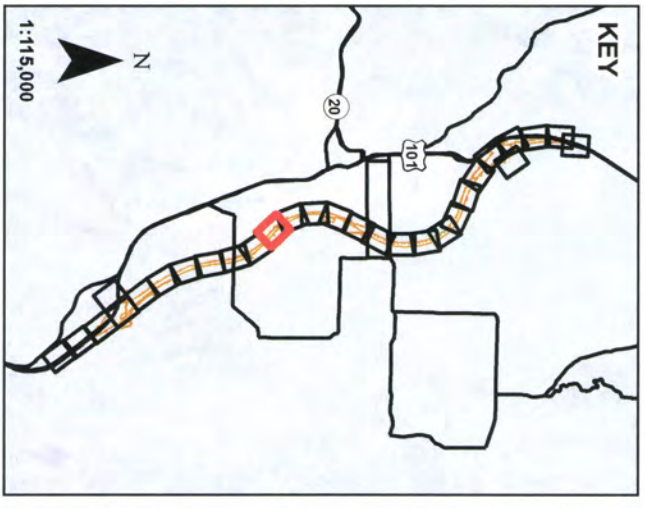
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel

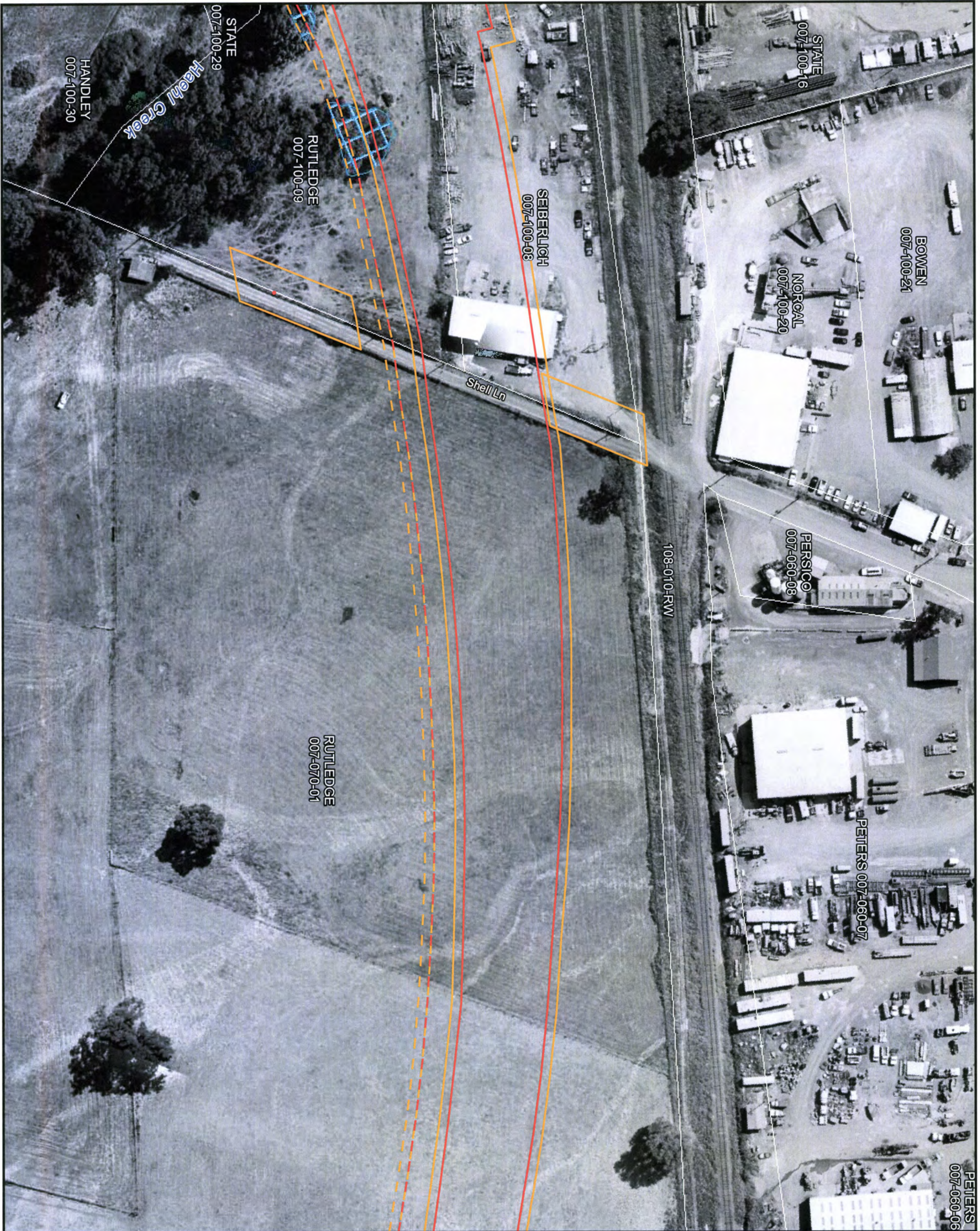
**Jurisdictional Wetlands and Other Waters**

- Offsite Mitigation Parcel
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



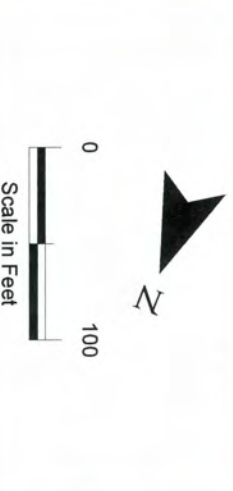
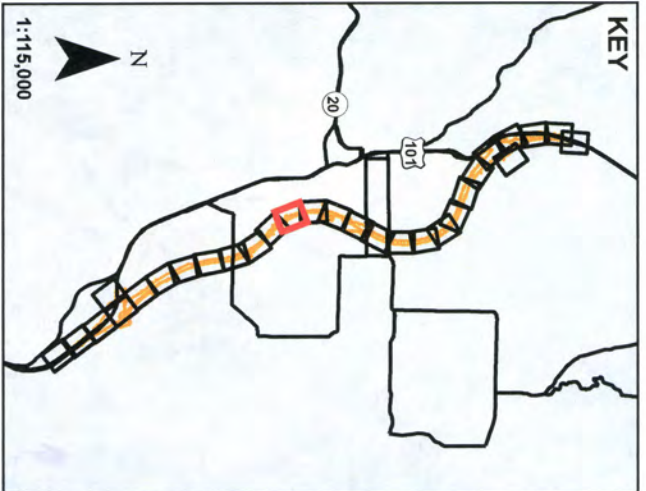
**Sheet B-26**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
  - Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas



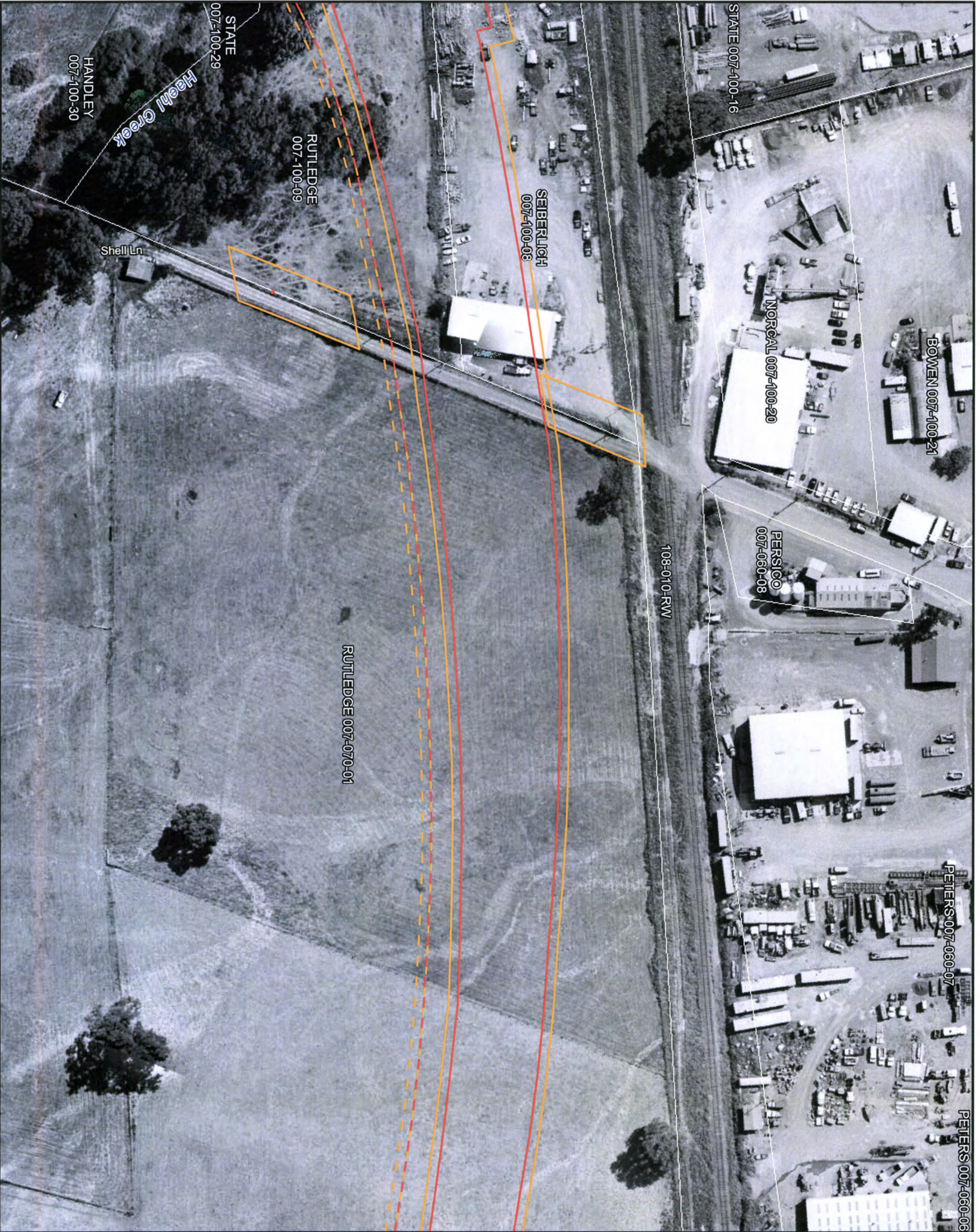
**Sheet B-27**

**Riparian Habitat Impacts**

Willits Bypass Project

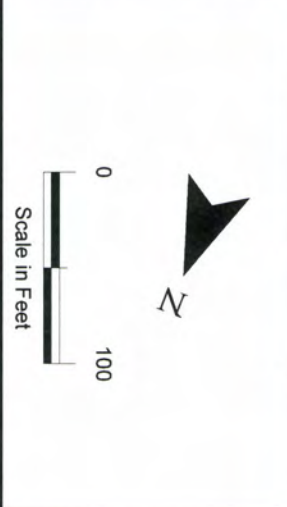
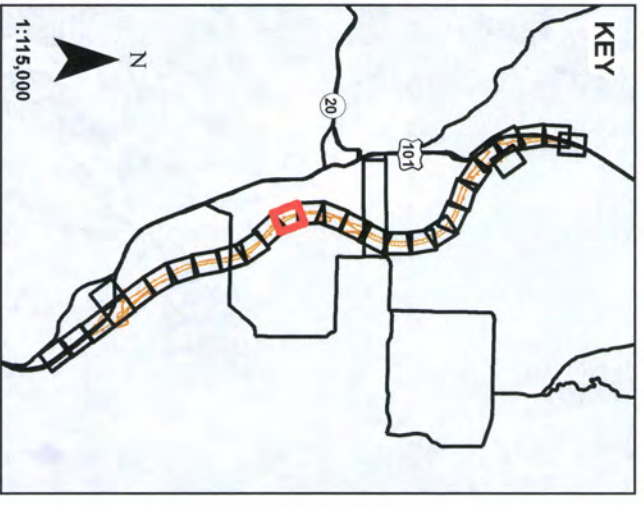
Sensitive Biological Resources

Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



**Sheet B-28**

**Jurisdictional Wetland Impacts**

**Willits Bypass**

**Sensitive Biological Resources**

**Impact Maps**



**Legend**

**Alignment - Phase 1**

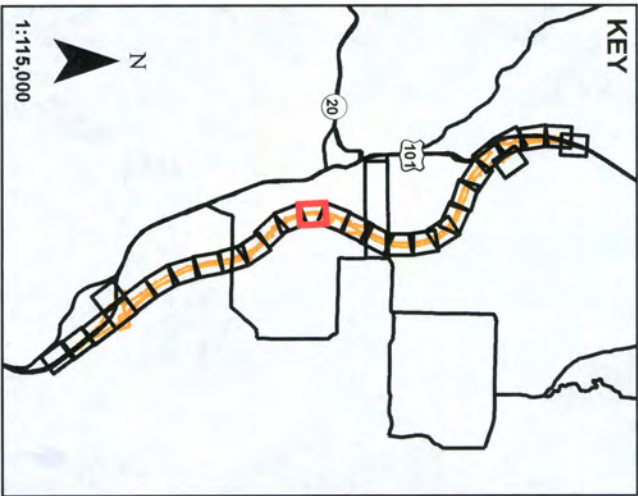
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel

**Sensitive Biological Resources**

- Offsite Mitigation Parcel
- Protected Fisheries Area
- Riparian Corridor Areas

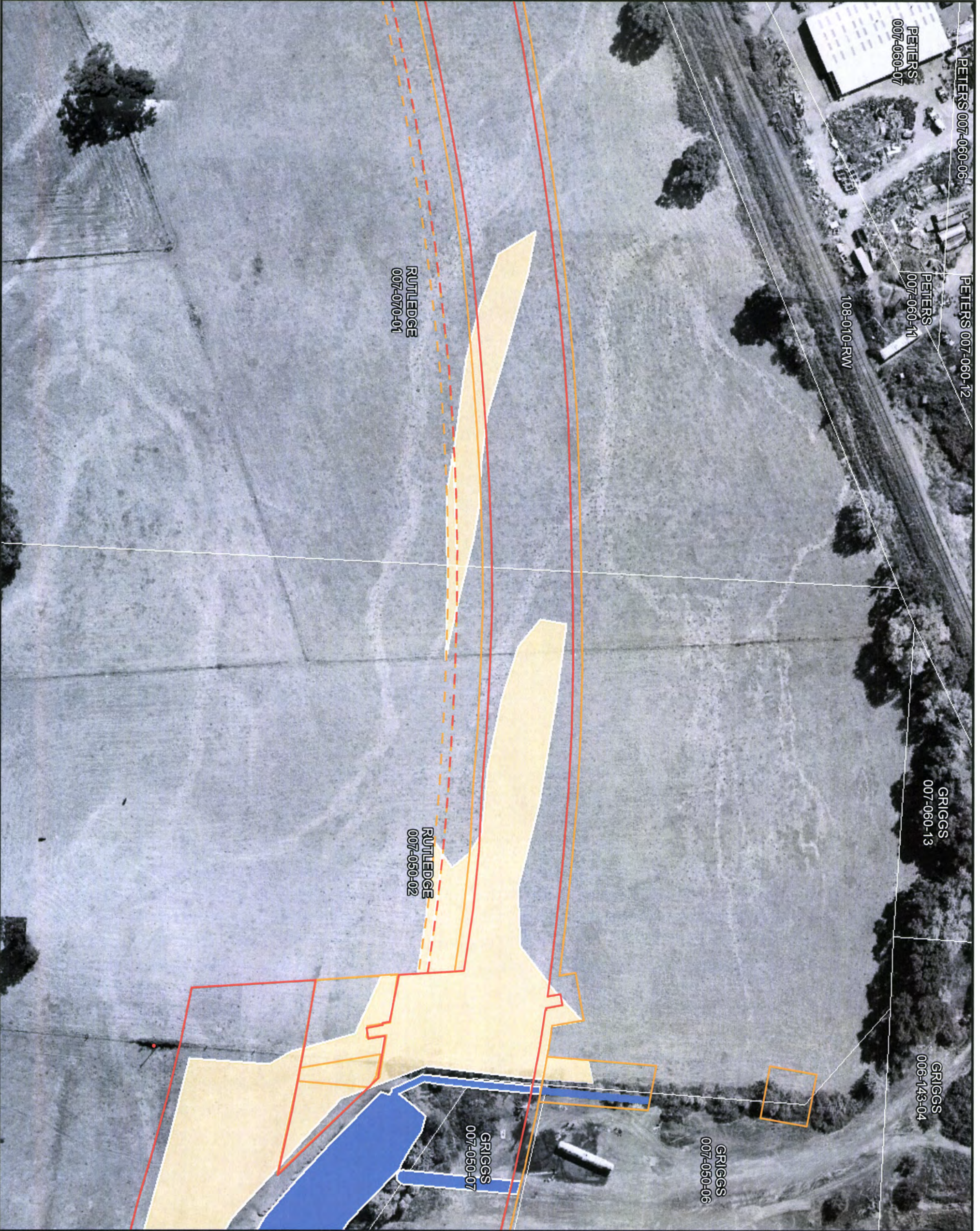


**Sheet B-29**

**Riparian Habitat Impacts**

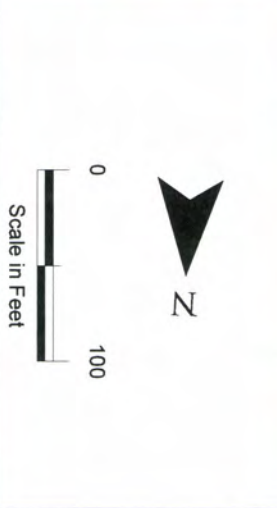
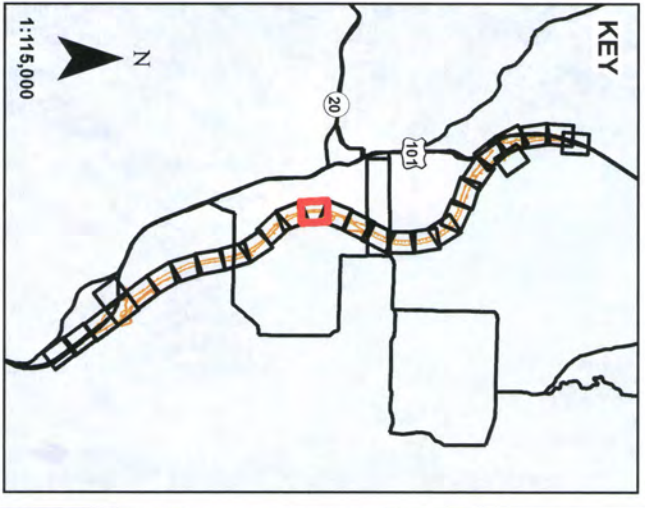
Willits Bypass Project

Sensitive Biological Resources Impact Maps



**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



**Sheet B-30**

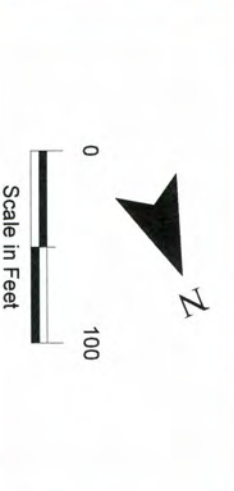
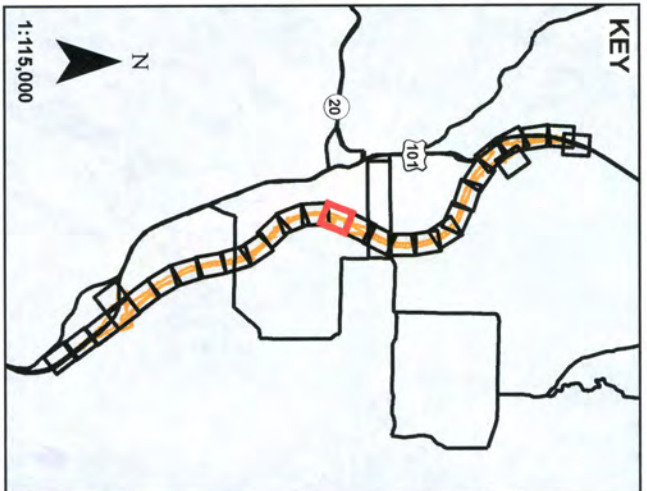
**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



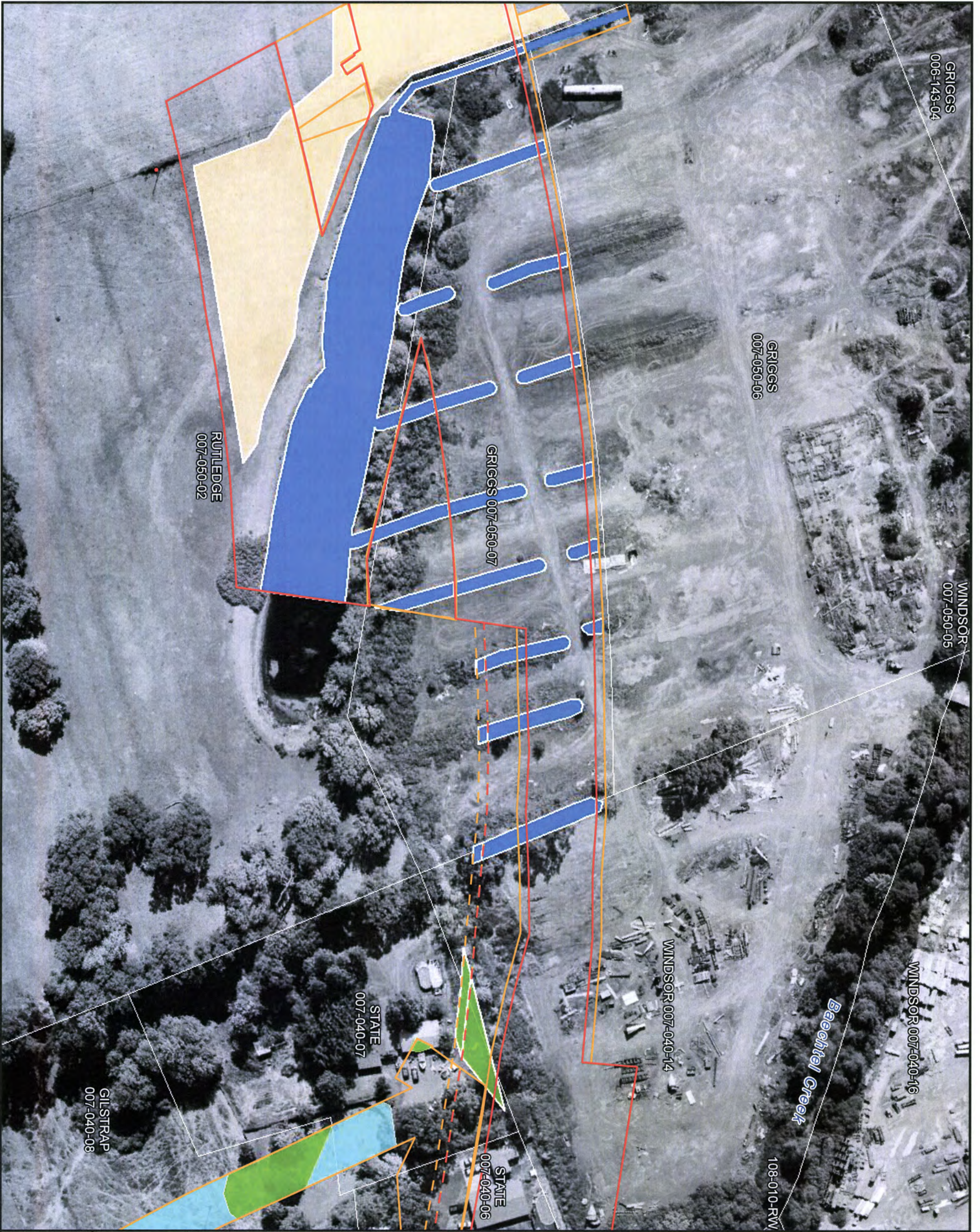


**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources**
- Protected Fisheries Area
- Riparian Corridor Areas

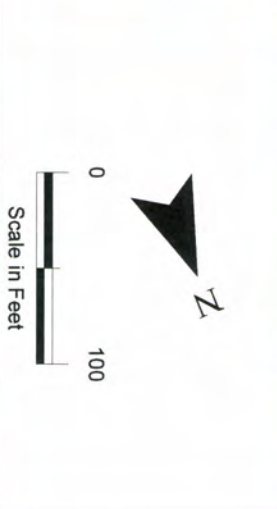
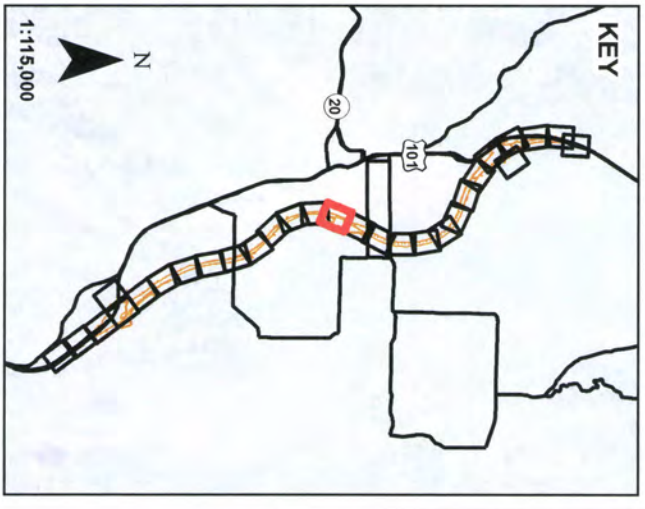


**Sheet B-31**  
**Riparian Habitat**  
**Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters

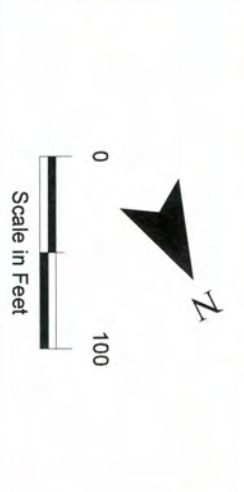
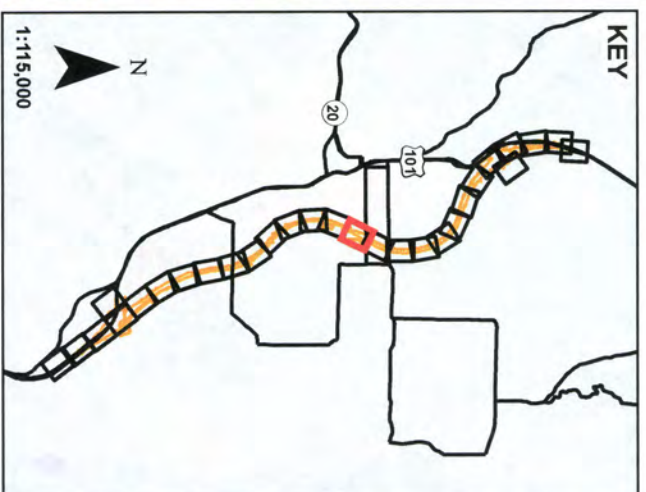


**Sheet B-32**  
**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
  - Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas



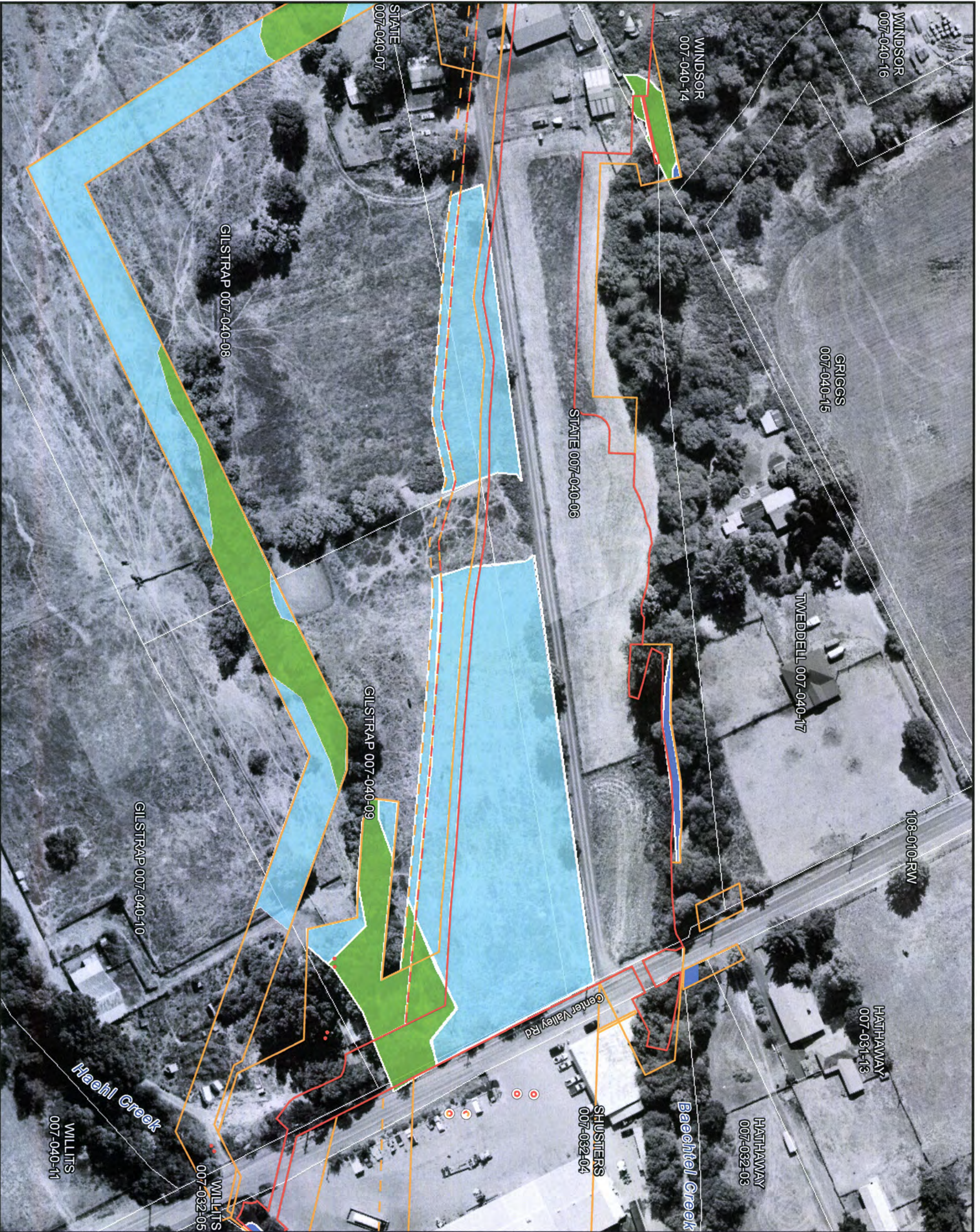
**Sheet B-33**

**Riparian Habitat Impacts**

Willits Bypass Project

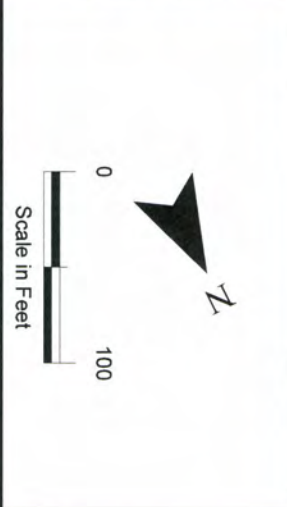
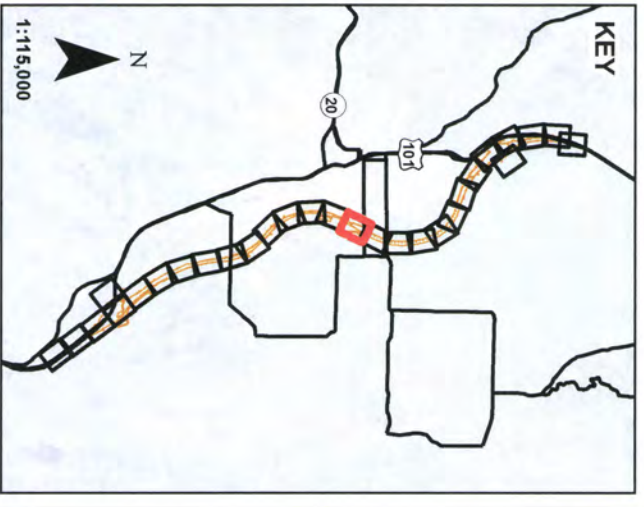
Sensitive Biological Resources

Impact Maps

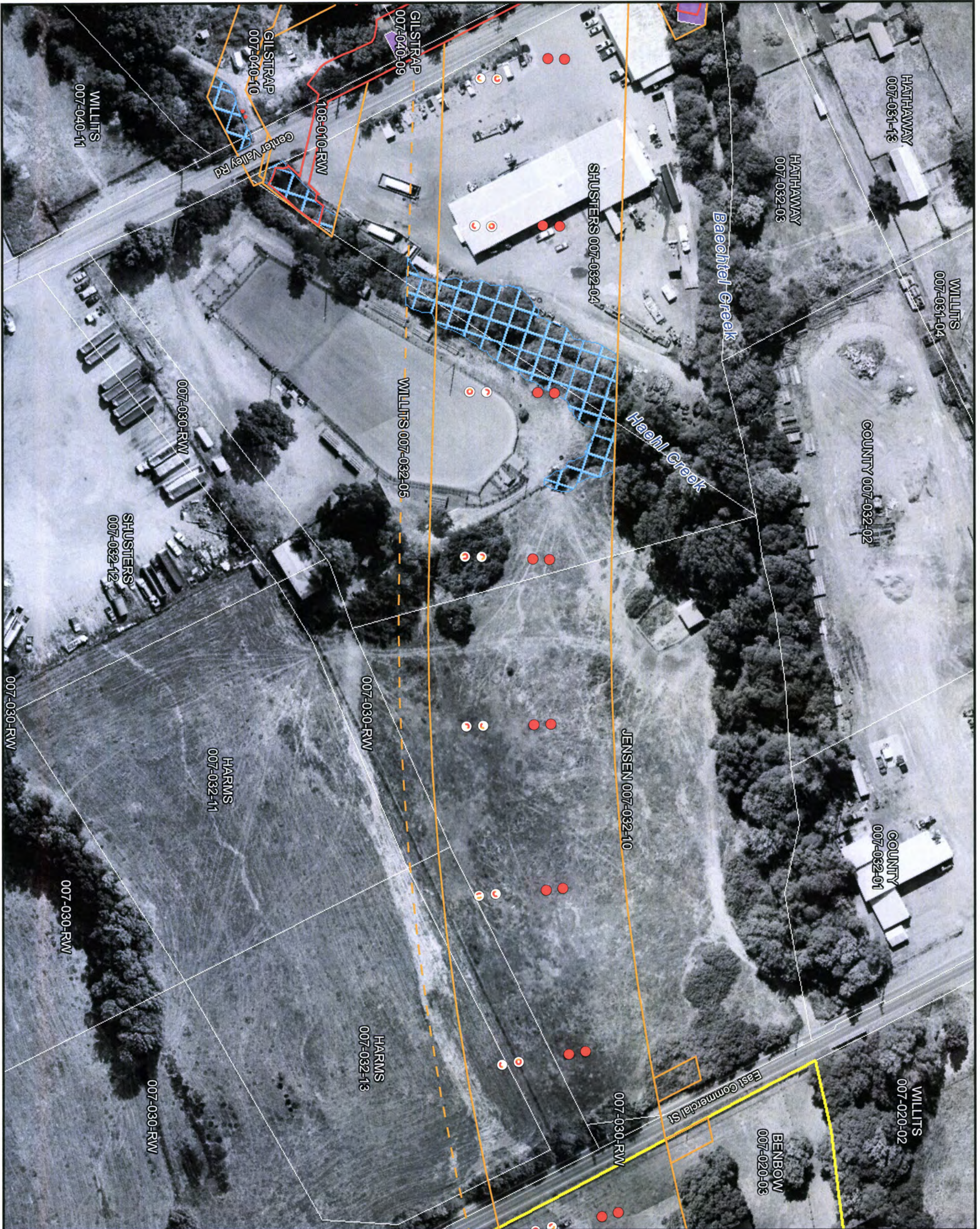


**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters

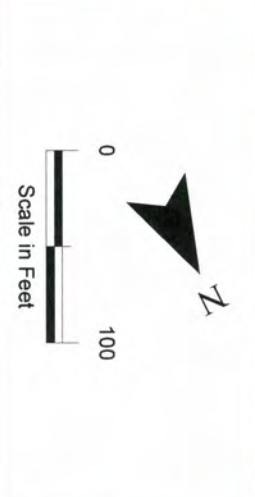
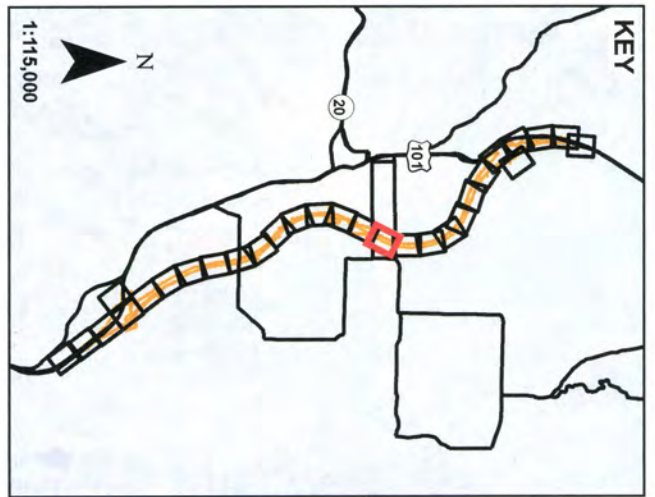


**Sheet B-34**  
**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1**
  - Permanent Impact Boundary (Red dashed line)
  - Temporary Impact Boundary (Orange dashed line)
  - Support Columns (Red circle)
- Alignment - Phase 2**
  - Permanent (Red dashed line)
  - Temporary (Orange dashed line)
  - Support Columns (White circle)
- Parcel** (Yellow outline)
- Offsite Mitigation Parcel** (Yellow outline)
- Sensitive Biological Resources** (Blue grid pattern)
- Protected Fisheries Area** (Blue grid pattern)
- Riparian Corridor Areas** (Purple outline)

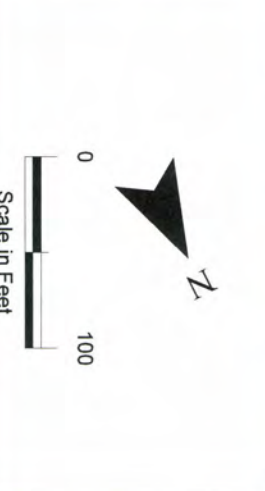
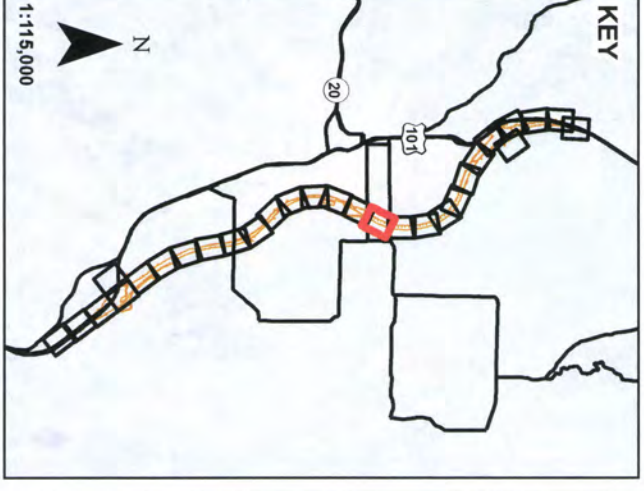
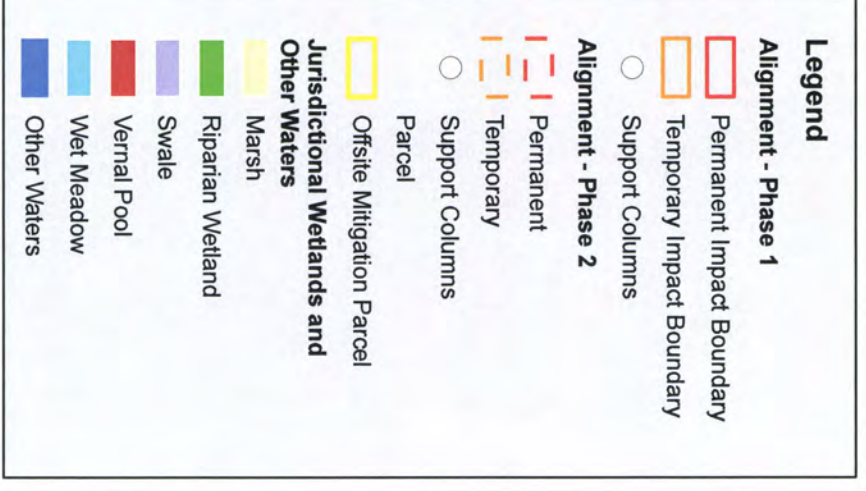
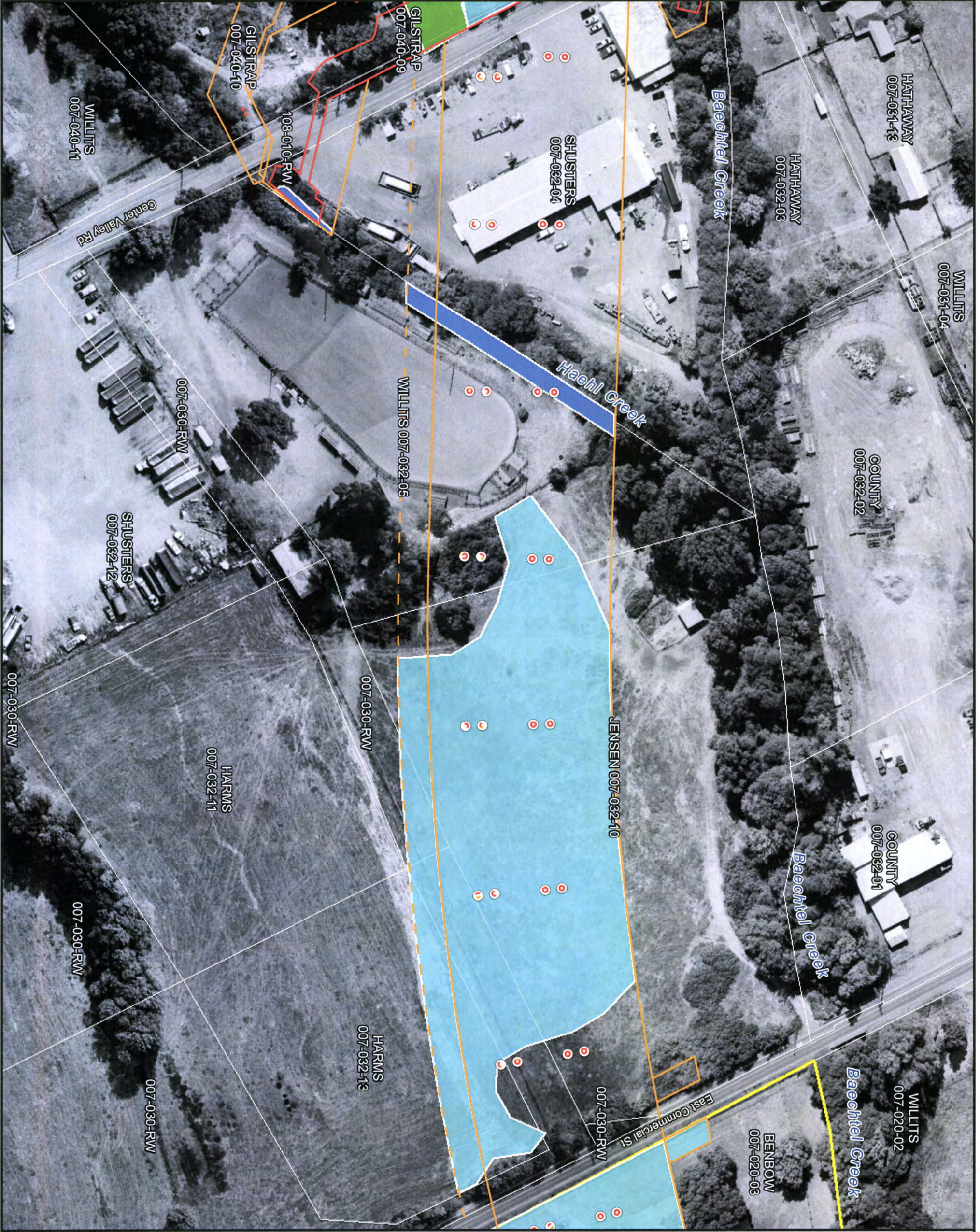


**Sheet B-35**

**Riparian Habitat Impacts**

Willits Bypass Project

Sensitive Biological Resources Impact Maps





**Legend**

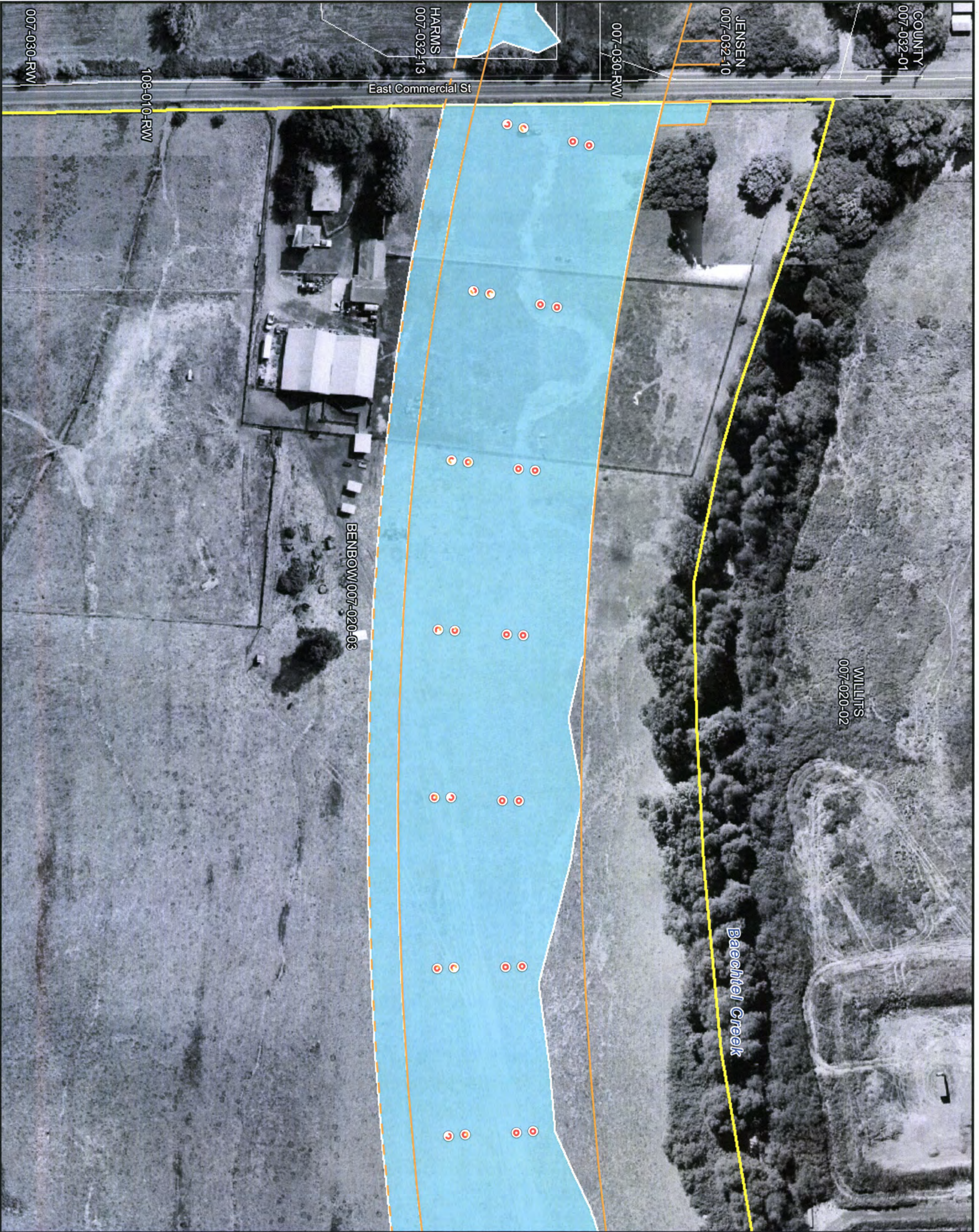
- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2**
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources**
- Protected Fisheries Area
- Riparian Corridor Areas

**KEY**



**Sheet B-37**

**Riparian Habitat Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

**Alignment - Phase 1**

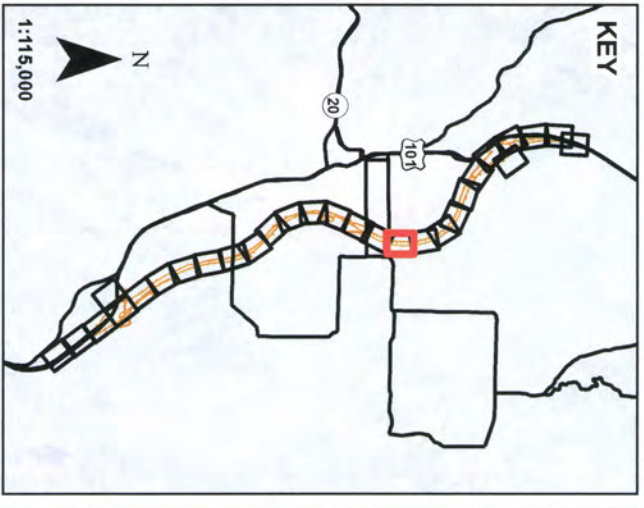
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

**Jurisdictional Wetlands and Other Waters**

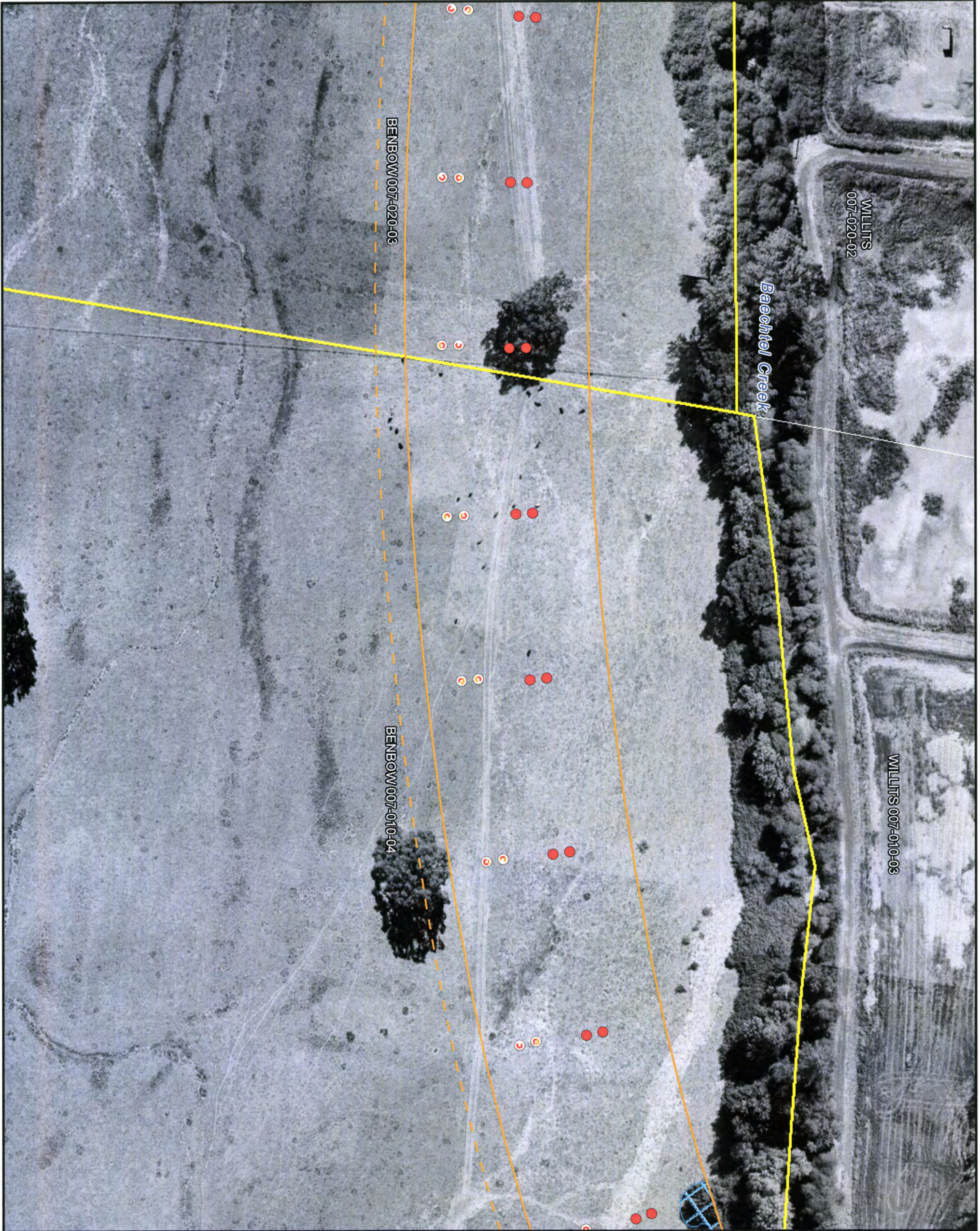
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



**Sheet B-38**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps





**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns

**Sensitive Biological Resources**

- Offsite Mitigation Parcel
- Protected Fisheries Area
- Riparian Corridor Areas

**Parcel**

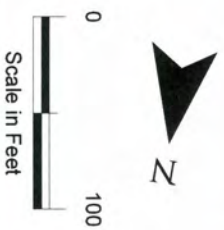
- Parcel

**KEY**

1:115,000

N

N



**Sheet B-39**

**Riparian Habitat Impacts**

Willits Bypass Project

Sensitive Biological Resources

Impact Maps



**Legend**

**Alignment - Phase 1**

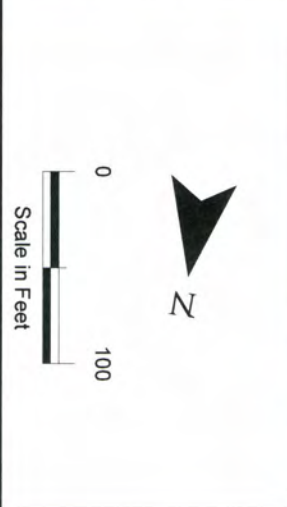
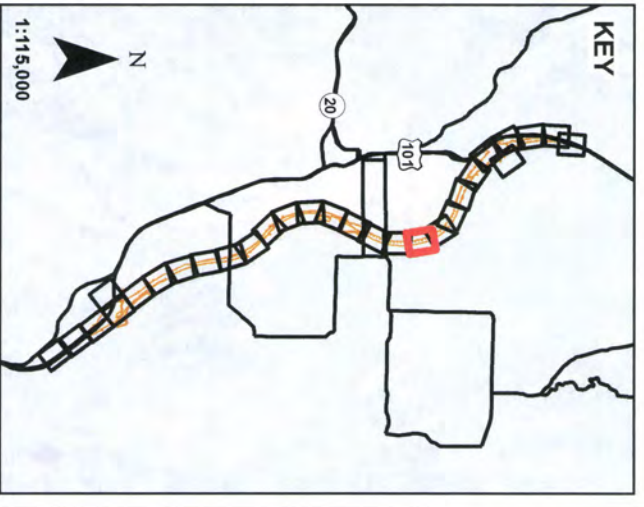
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel

**Jurisdictional Wetlands and Other Waters**

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



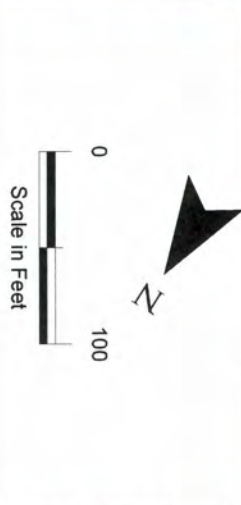
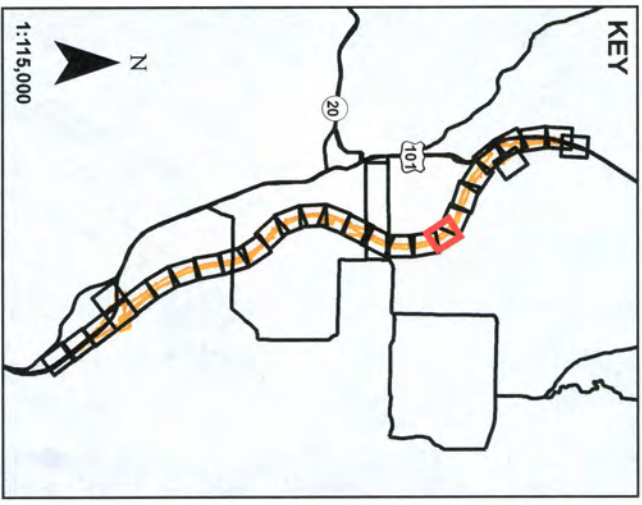
**Sheet B-40**

**Jurisdictional Wetland Impacts**  
**Willits Bypass**  
**Sensitive Biological Resources**  
**Impact Maps**

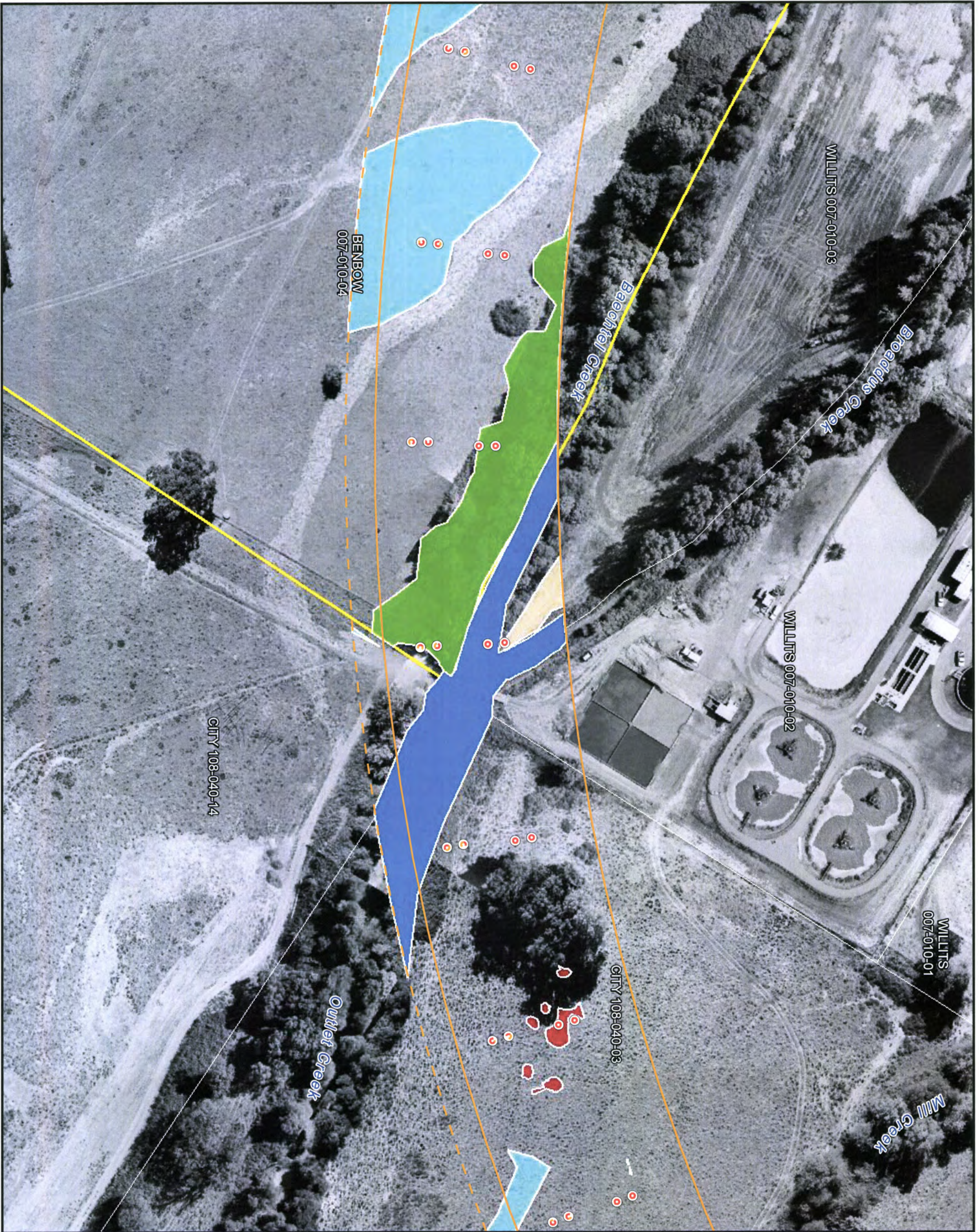


**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2**
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources**
- Protected Fisheries Area
- Riparian Corridor Areas

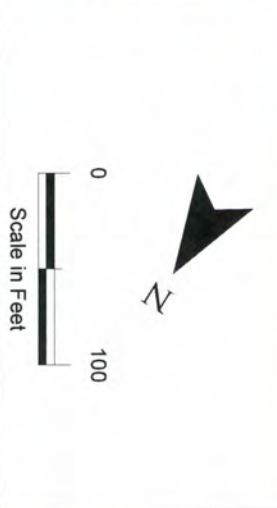
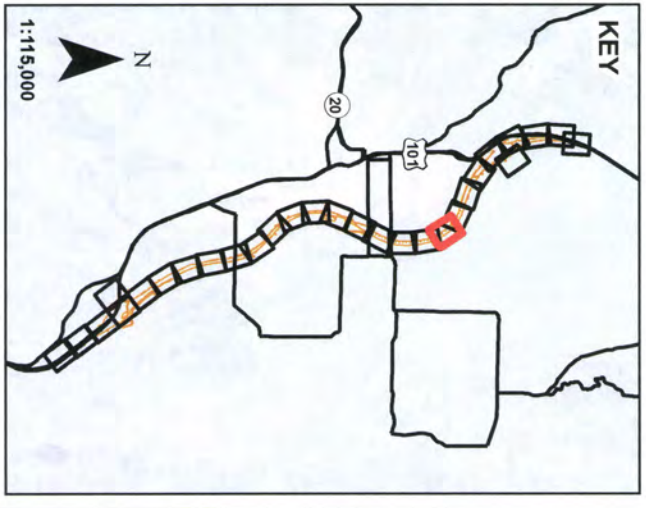


**Sheet B-41**  
**Riparian Habitat Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters

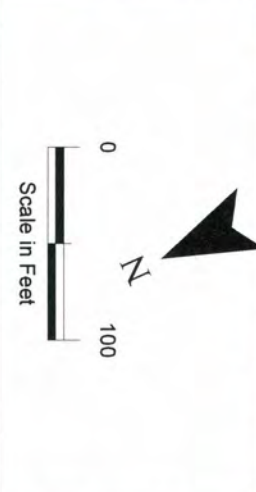
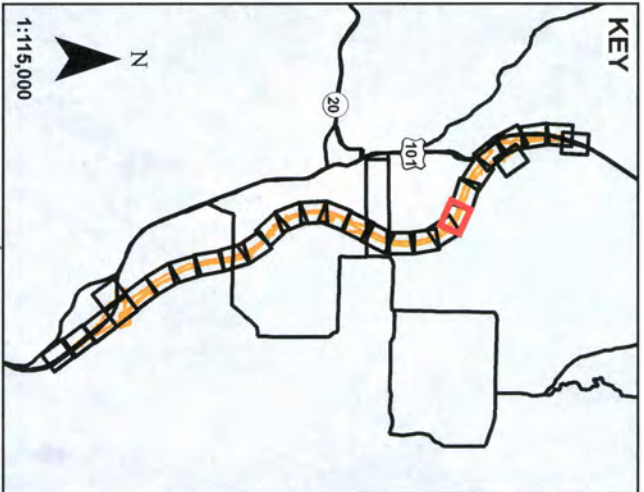


**Sheet B-42**  
 Jurisdictional Wetland Impacts  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
  - Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



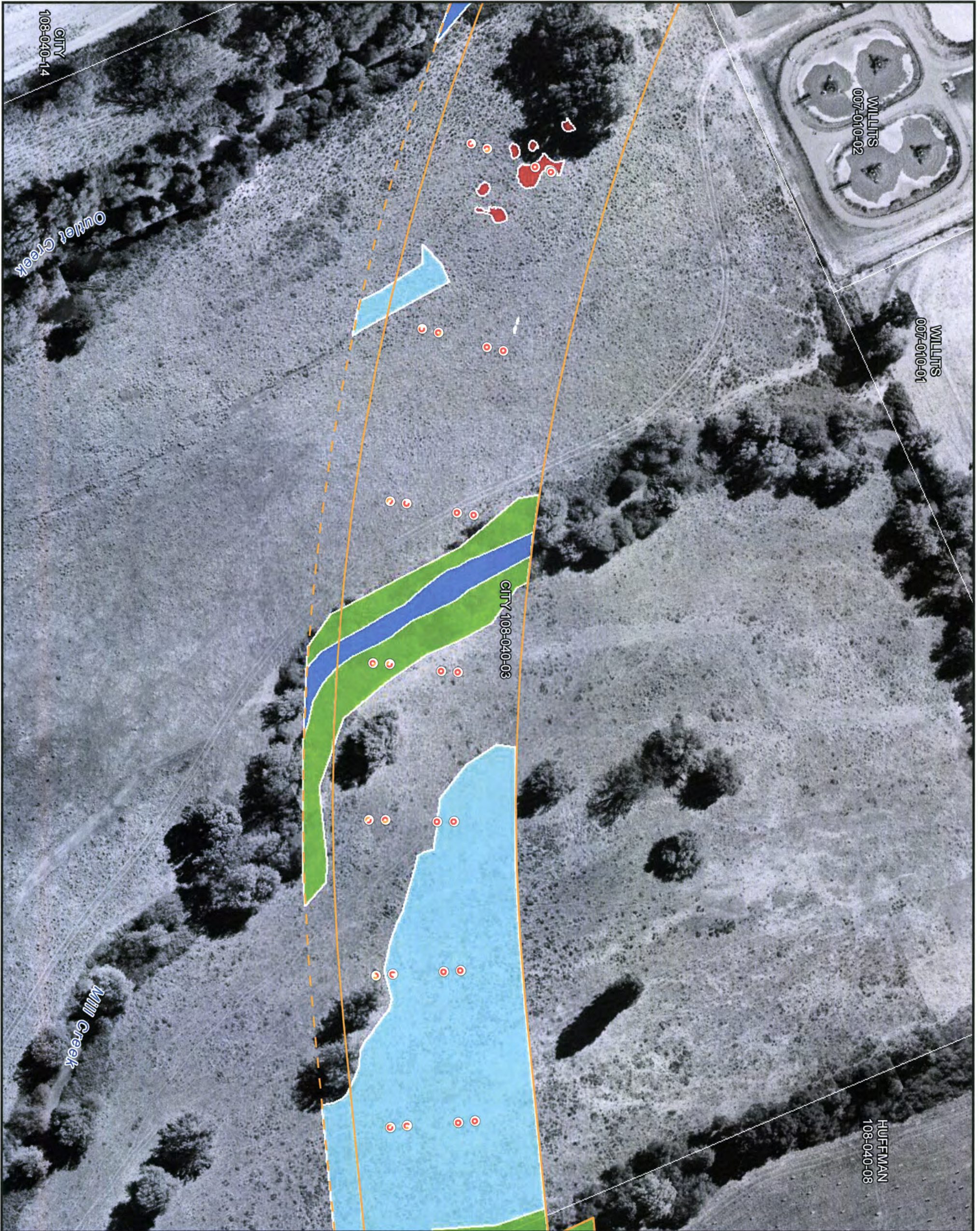
**Sheet B-43**

**Riparian Habitat Impacts**

Willits Bypass Project

Sensitive Biological Resources

Impact Maps



**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

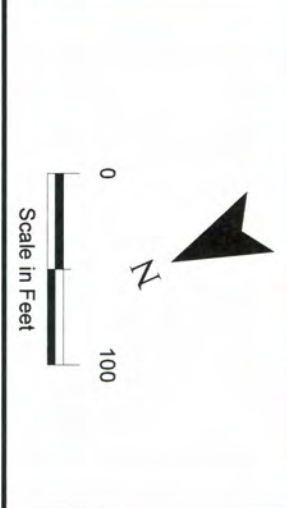
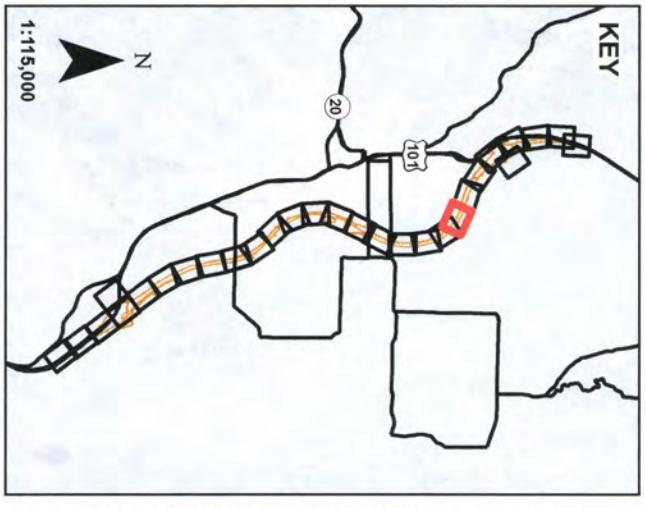
- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

**Jurisdictional Wetlands and Other Waters**

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



**Sheet B-44**

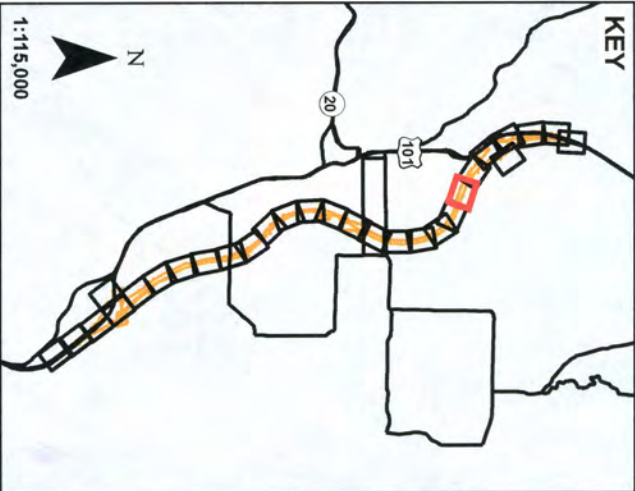
**Jurisdictional Wetland Impacts**  
**Willits Bypass**  
**Sensitive Biological Resources**  
**Impact Maps**



**Legend**

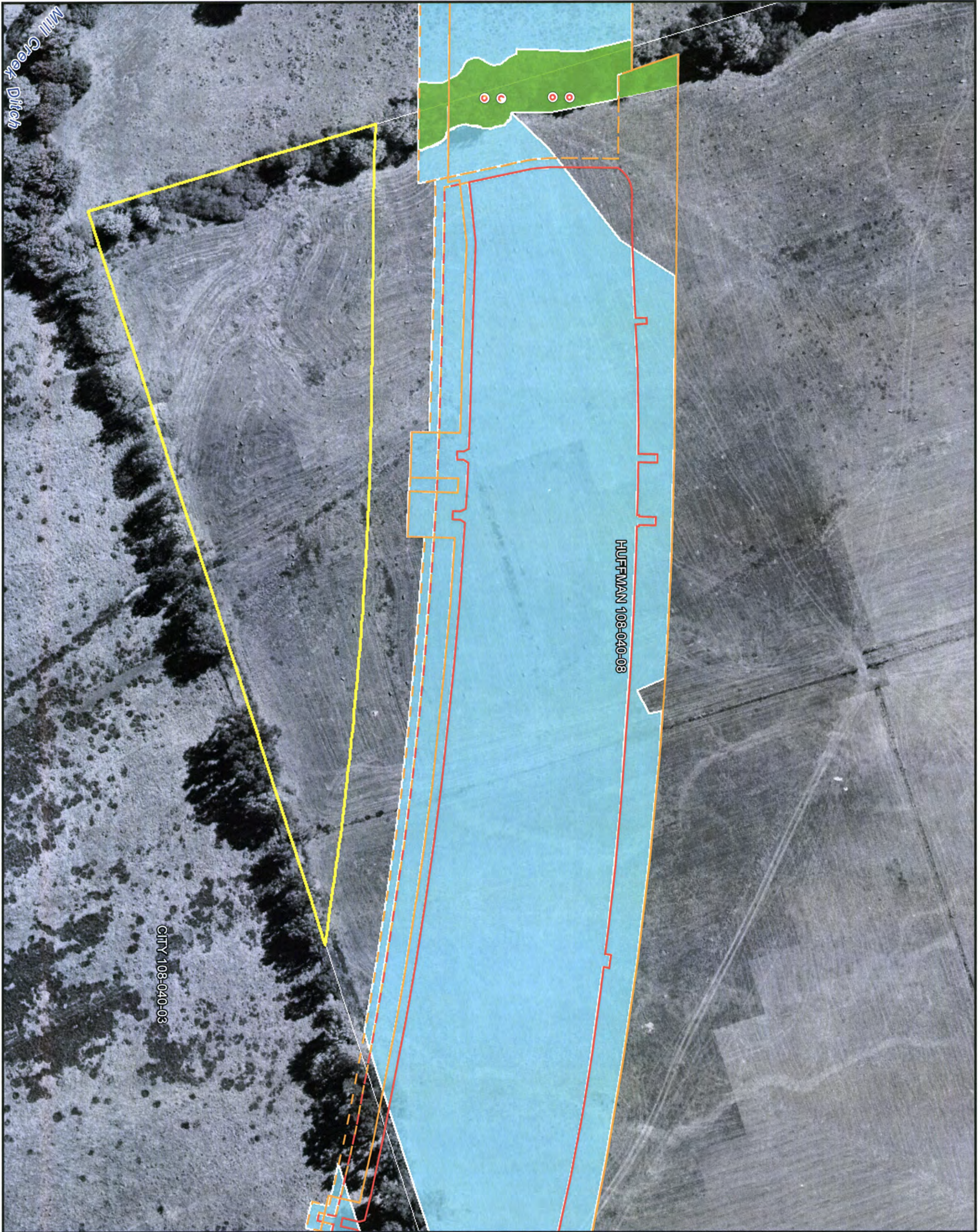
- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources**
- Protected Fisheries Area
- Riparian Corridor Areas

**KEY**



**Sheet B-45**

**Riparian Habitat Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

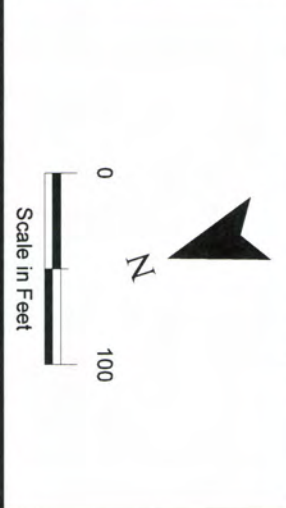
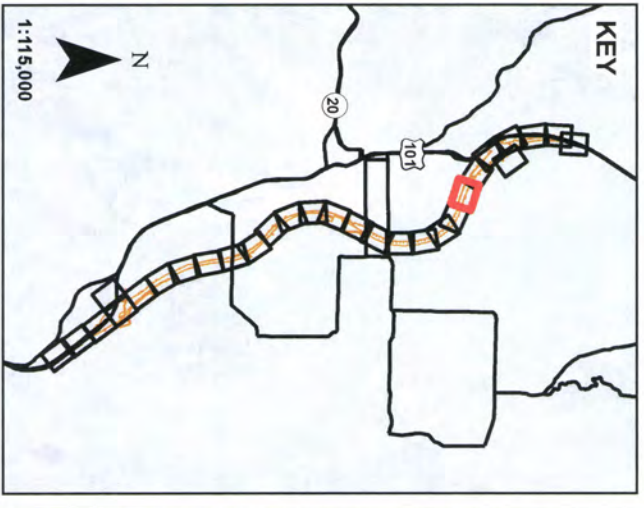
- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

**Jurisdictional Wetlands and Other Waters**

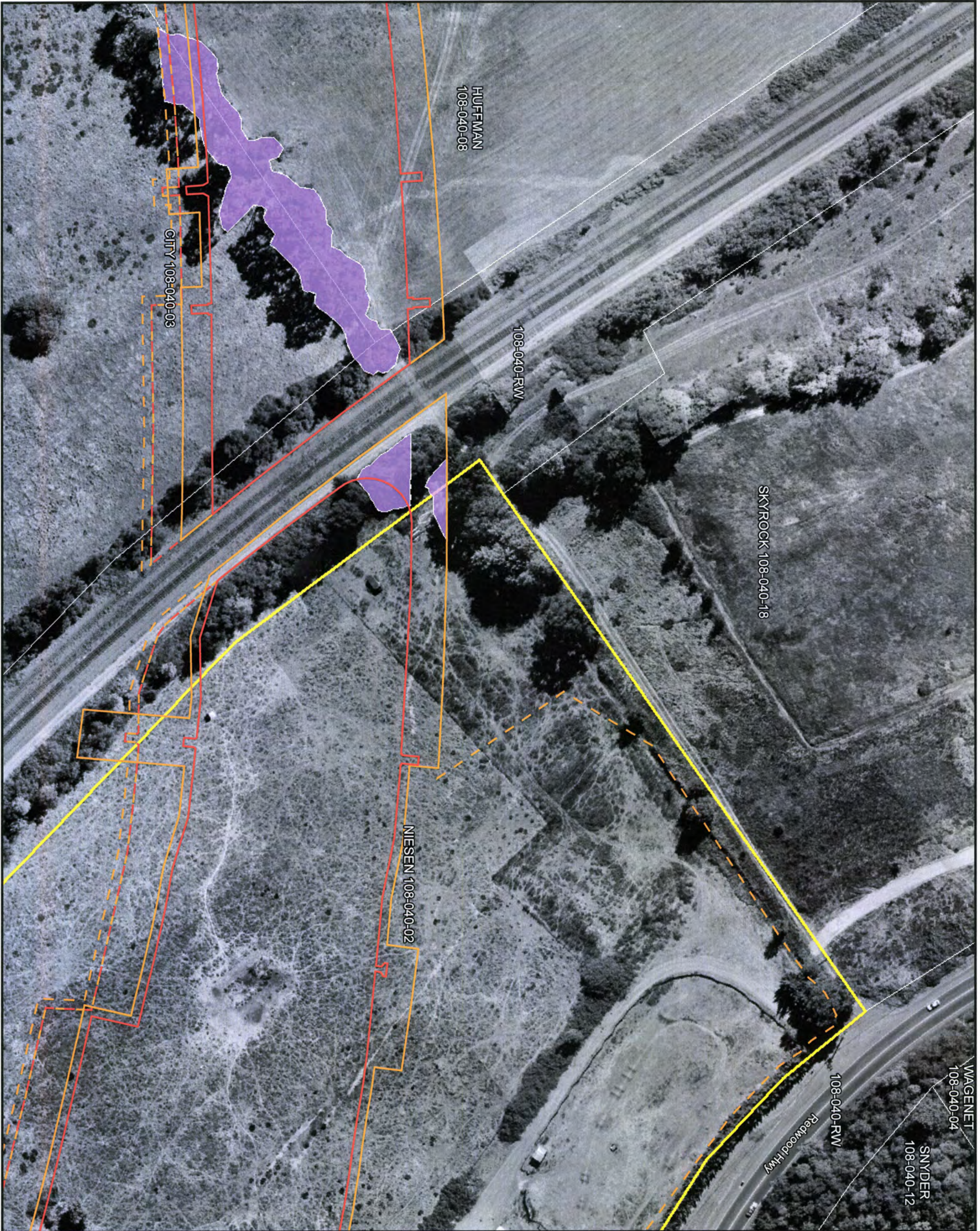
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



**Sheet B-46**

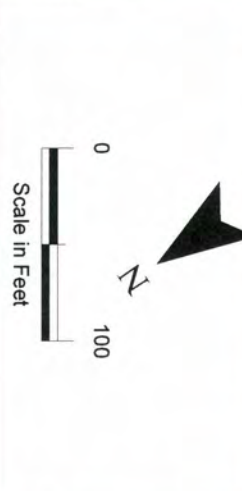
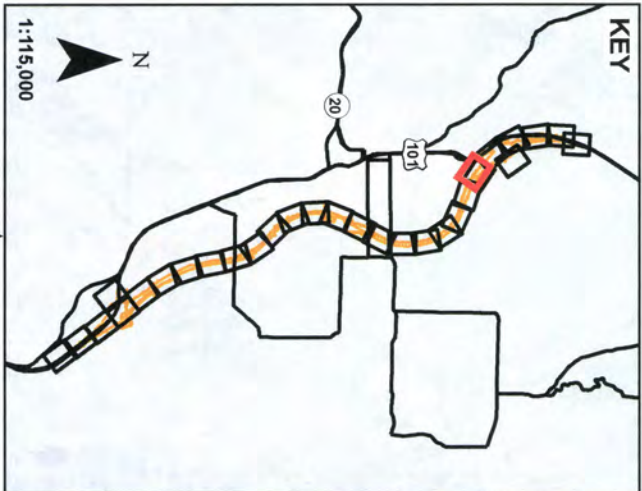
**Jurisdictional Wetland Impacts**  
**Willits Bypass**  
**Sensitive Biological Resources**  
**Impact Maps**





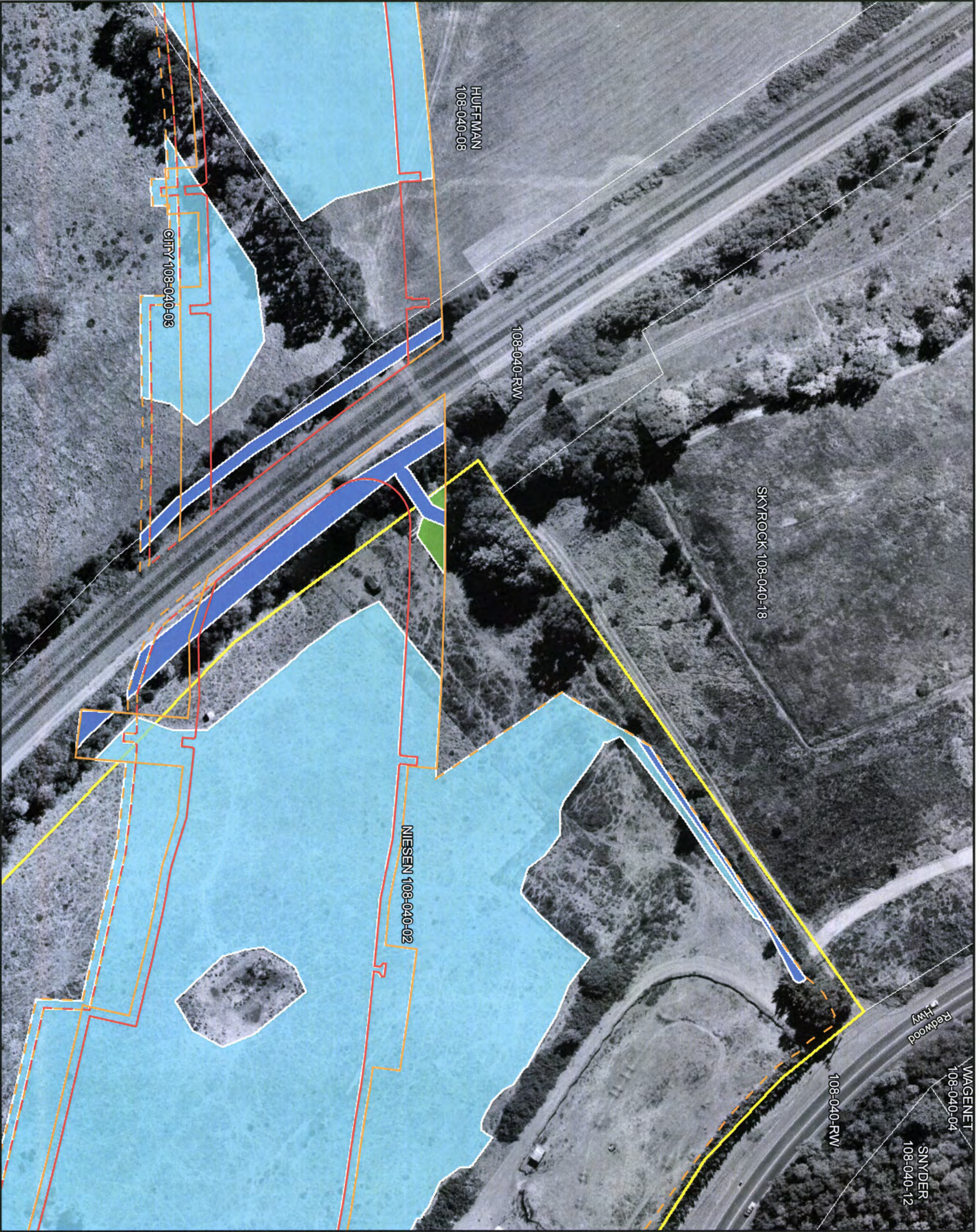
**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
  - Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas



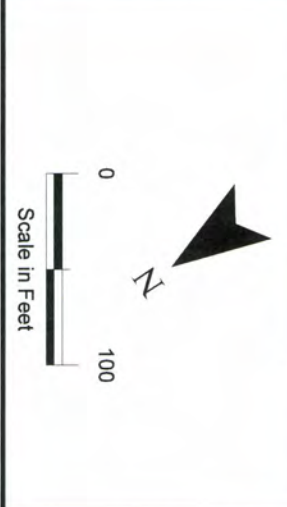
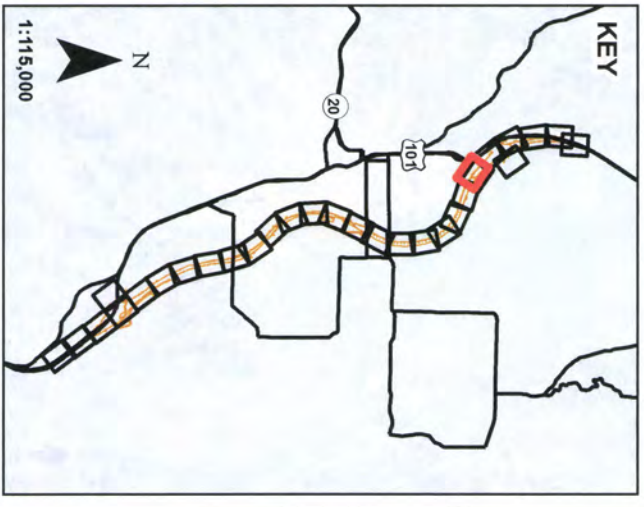
**Sheet B-47**

**Riparian Habitat Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



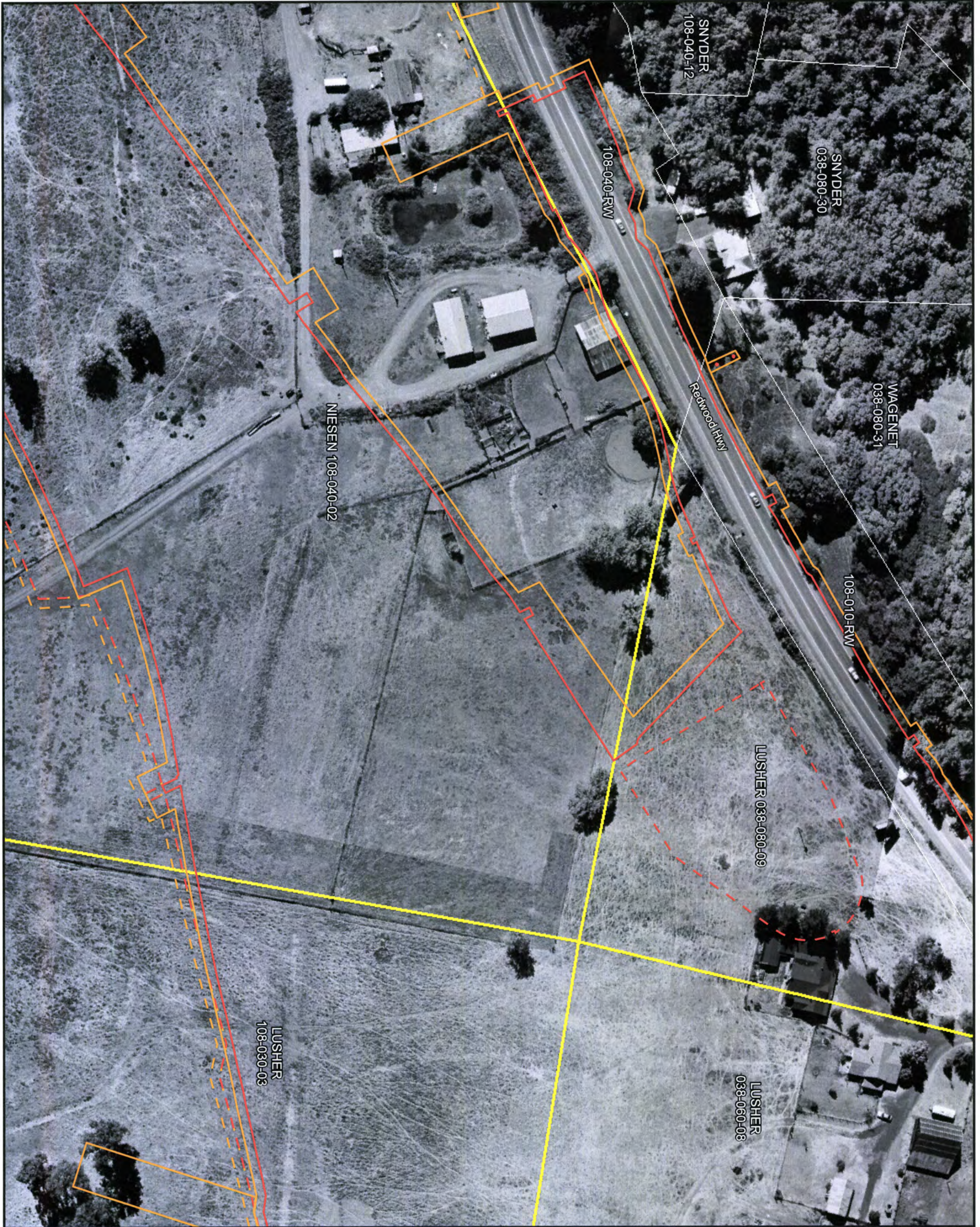
**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



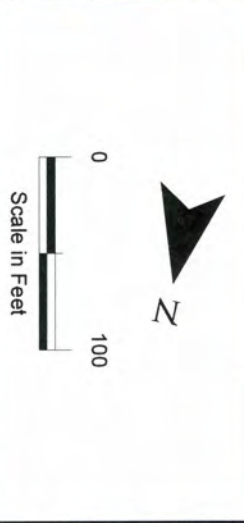
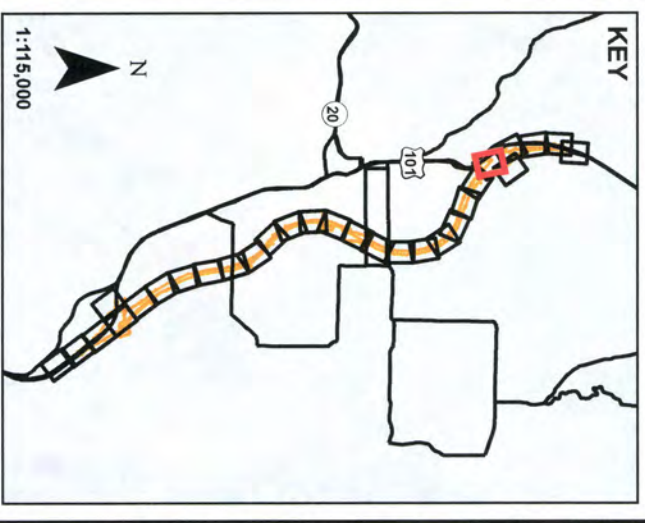
**Sheet B-48**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



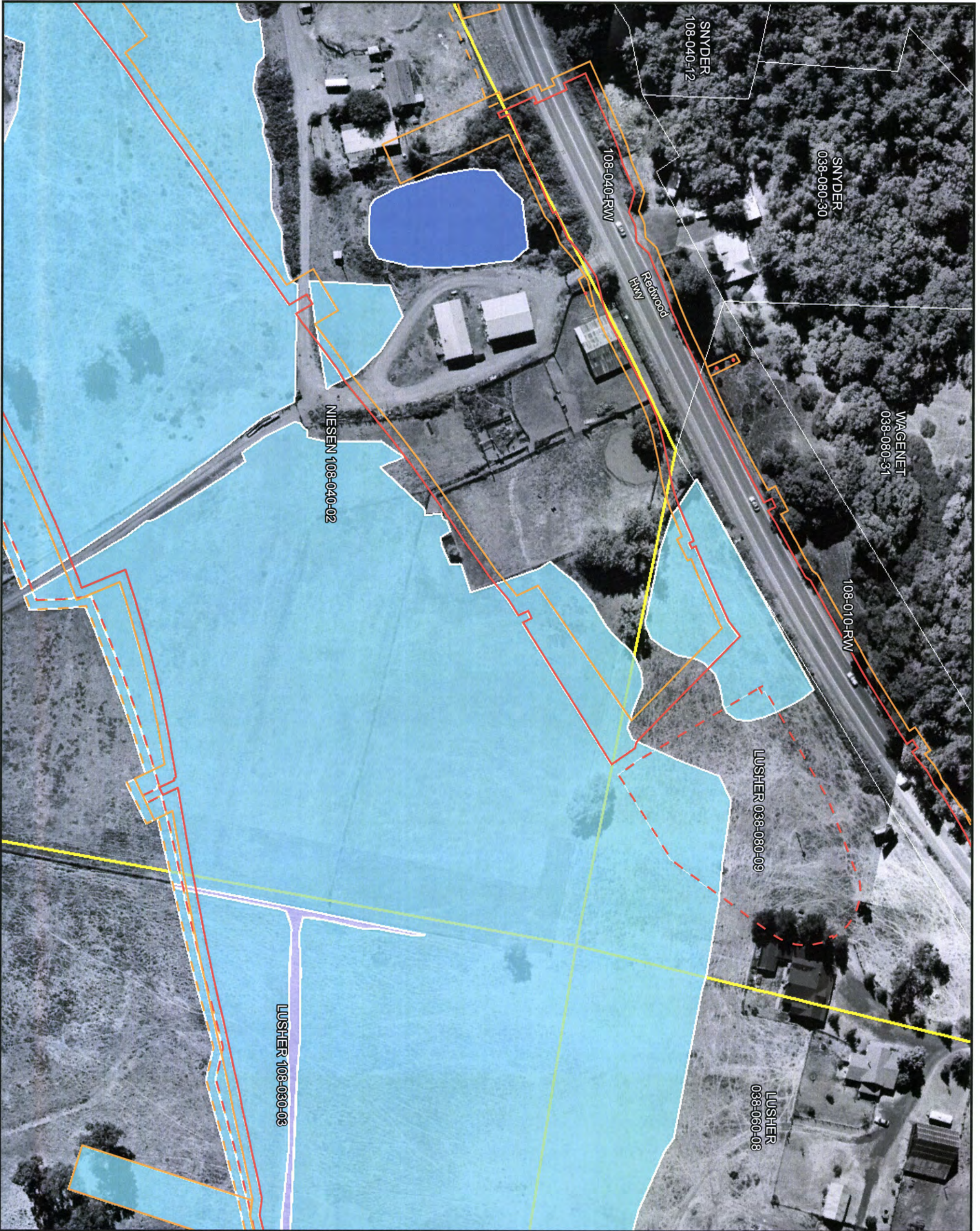
**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas



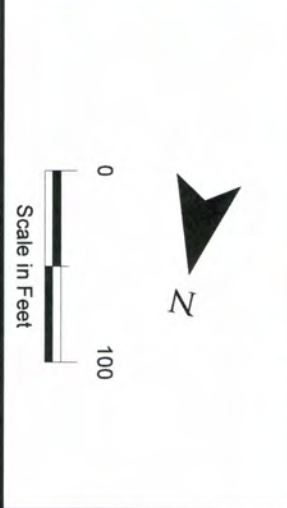
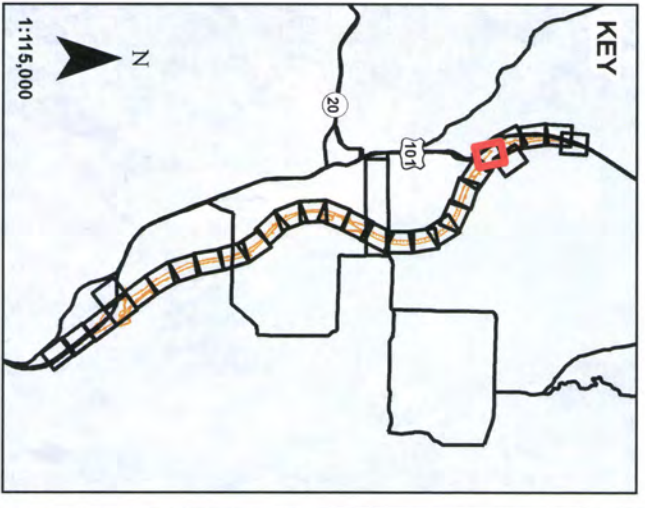
**Sheet B-49**

Riparian Habitat  
Impacts  
Willits Bypass Project  
Sensitive Biological Resources  
Impact Maps



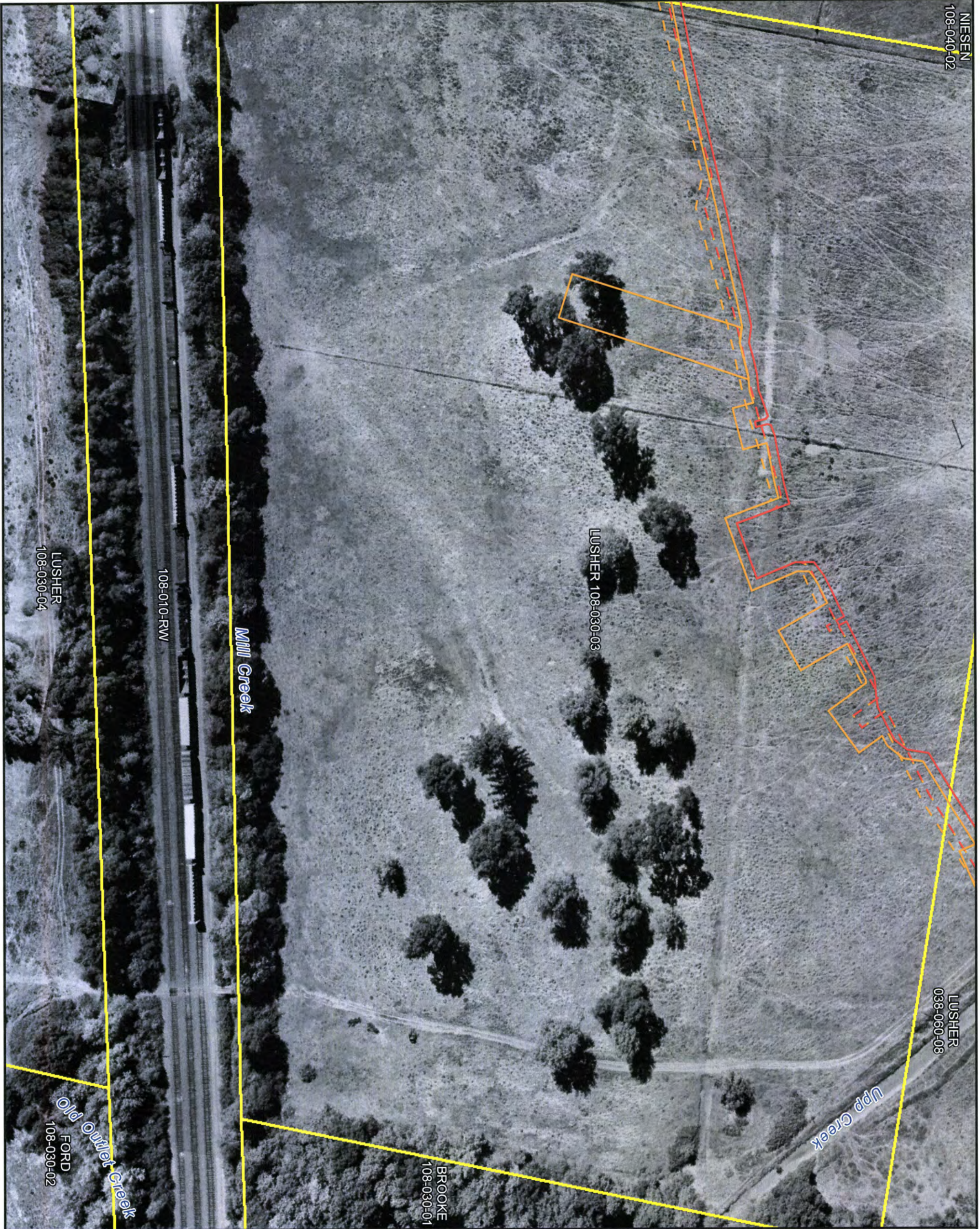
**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



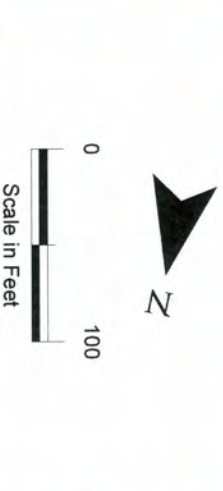
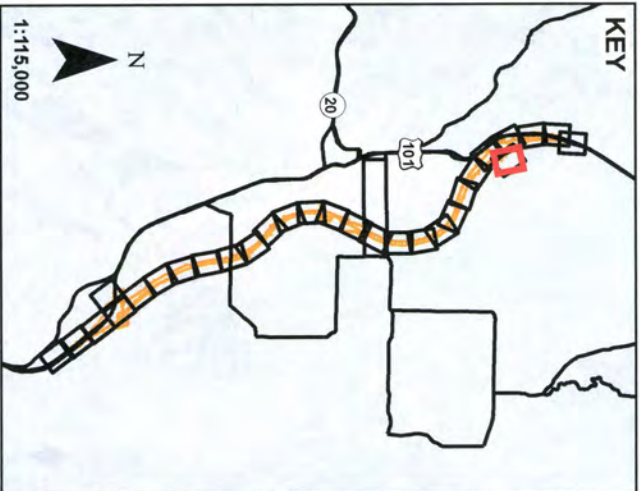
**Sheet B-50**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



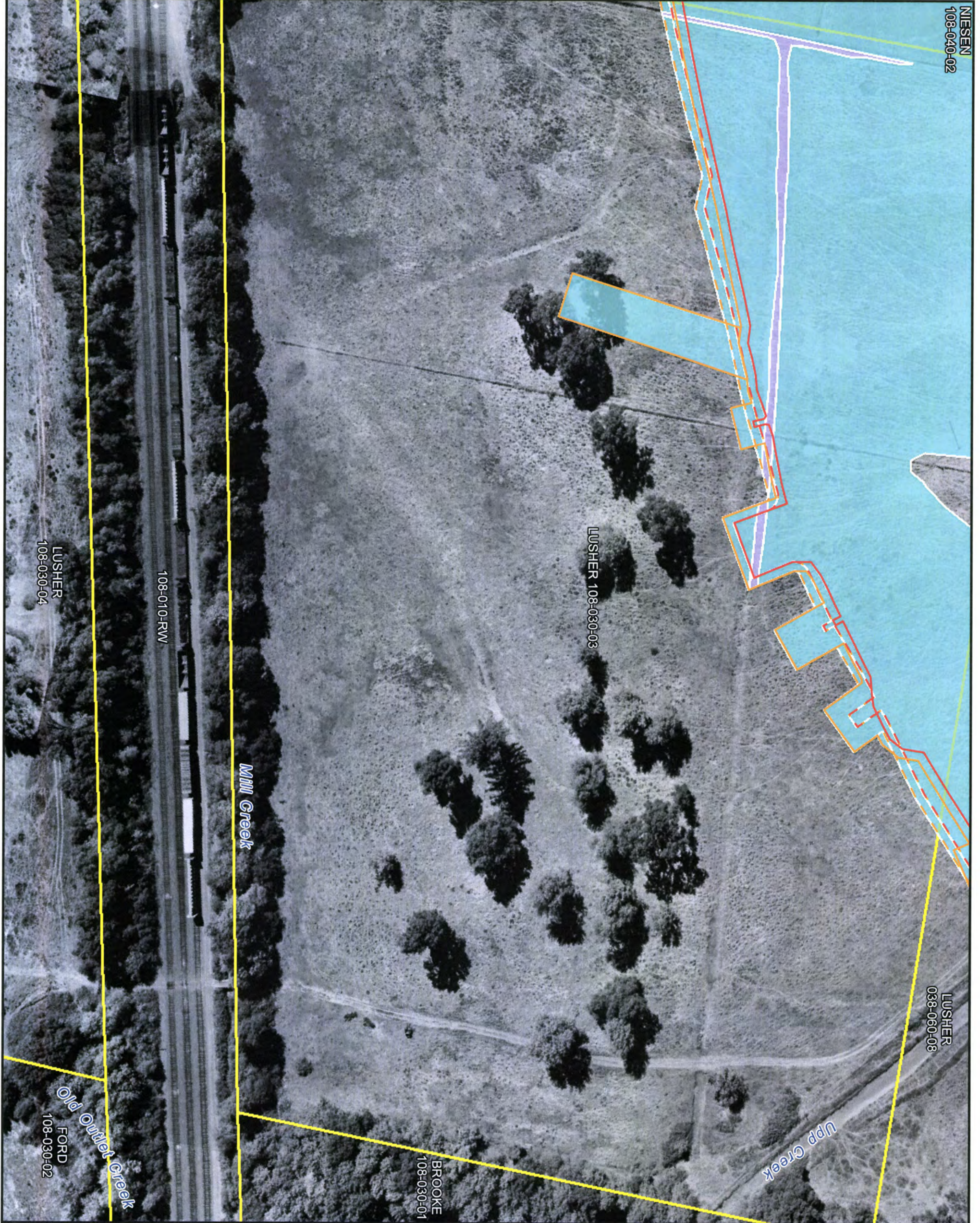
**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



**Sheet B-51**  
**Riparian Habitat**  
**Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps

NIEMEN  
108-040-02



LUSHER  
038-060-08

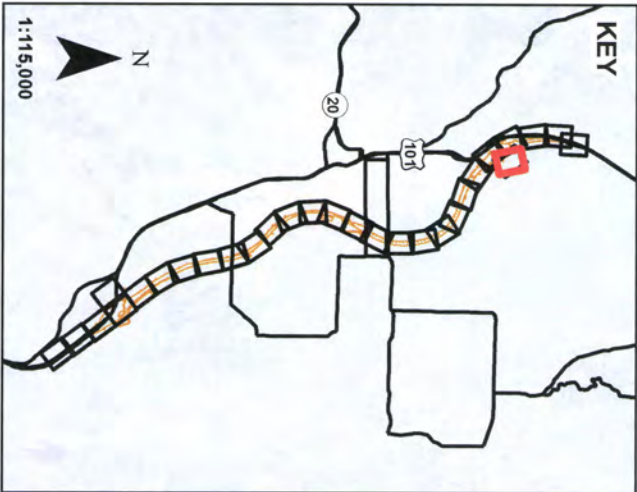
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BROOKE  
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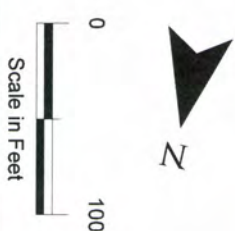
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LUSHER  
108-030-04

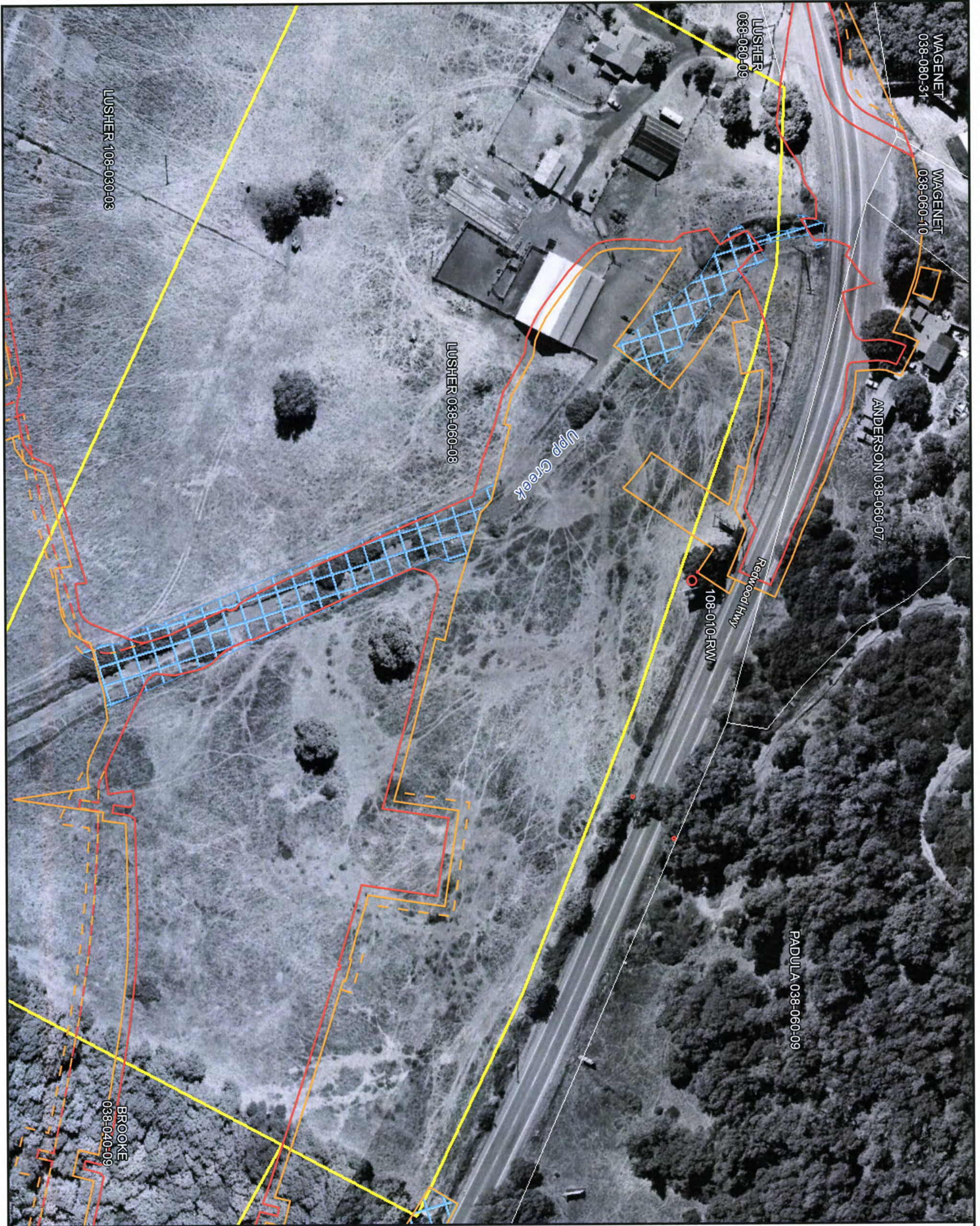
FORD  
108-030-02



Legend	
	Alignment - Phase 1
	Permanent Impact Boundary
	Temporary Impact Boundary
	Support Columns
<b>Alignment - Phase 2</b>	
	Permanent
	Temporary
	Support Columns
	Offsite Mitigation Parcel
<b>Jurisdictional Wetlands and Other Waters</b>	
	Marsh
	Riparian Wetland
	Swale
	Vernal Pool
	Wet Meadow
	Other Waters

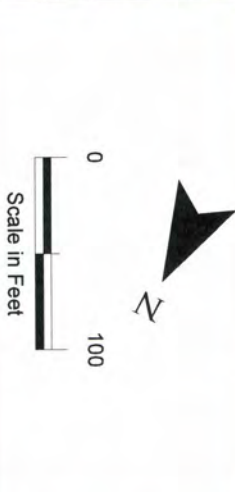
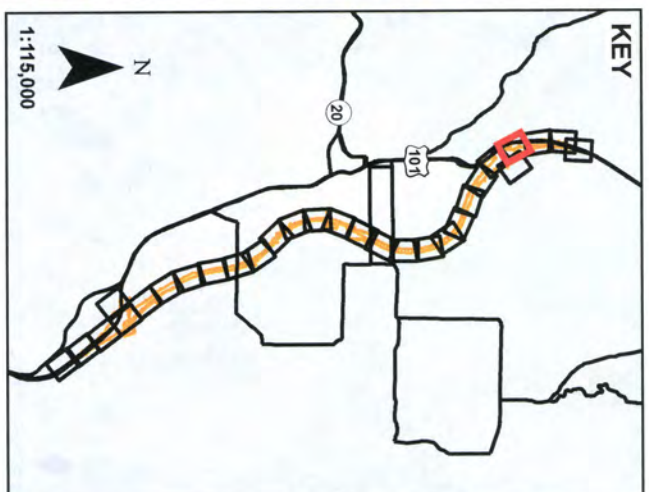


**Sheet B-52**  
**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Sensitive Biological Resources
  - Protected Fisheries Area
  - Riparian Corridor Areas

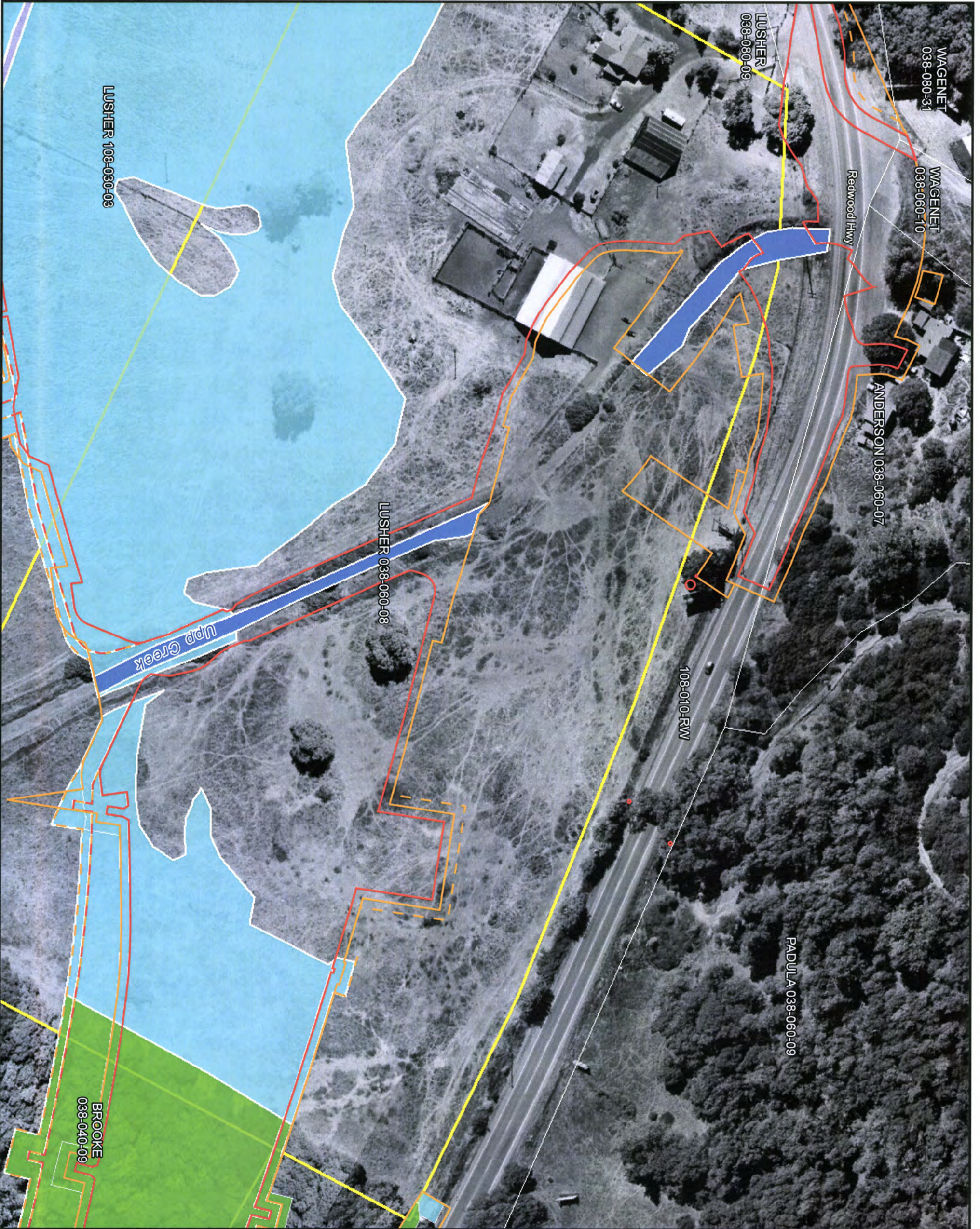


**Sheet B-53**

**Riparian Habitat Impacts**

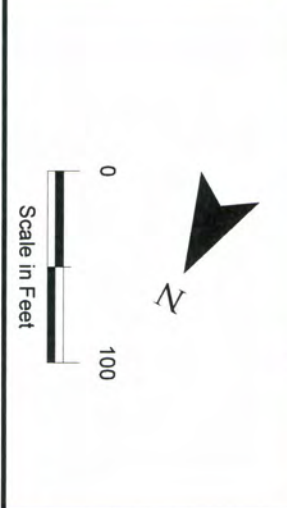
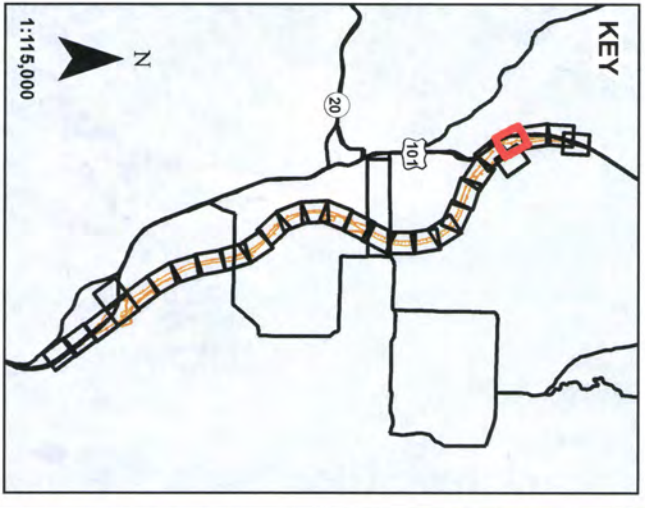
**Willits Bypass Project**

**Sensitive Biological Resources Impact Maps**



**Legend**

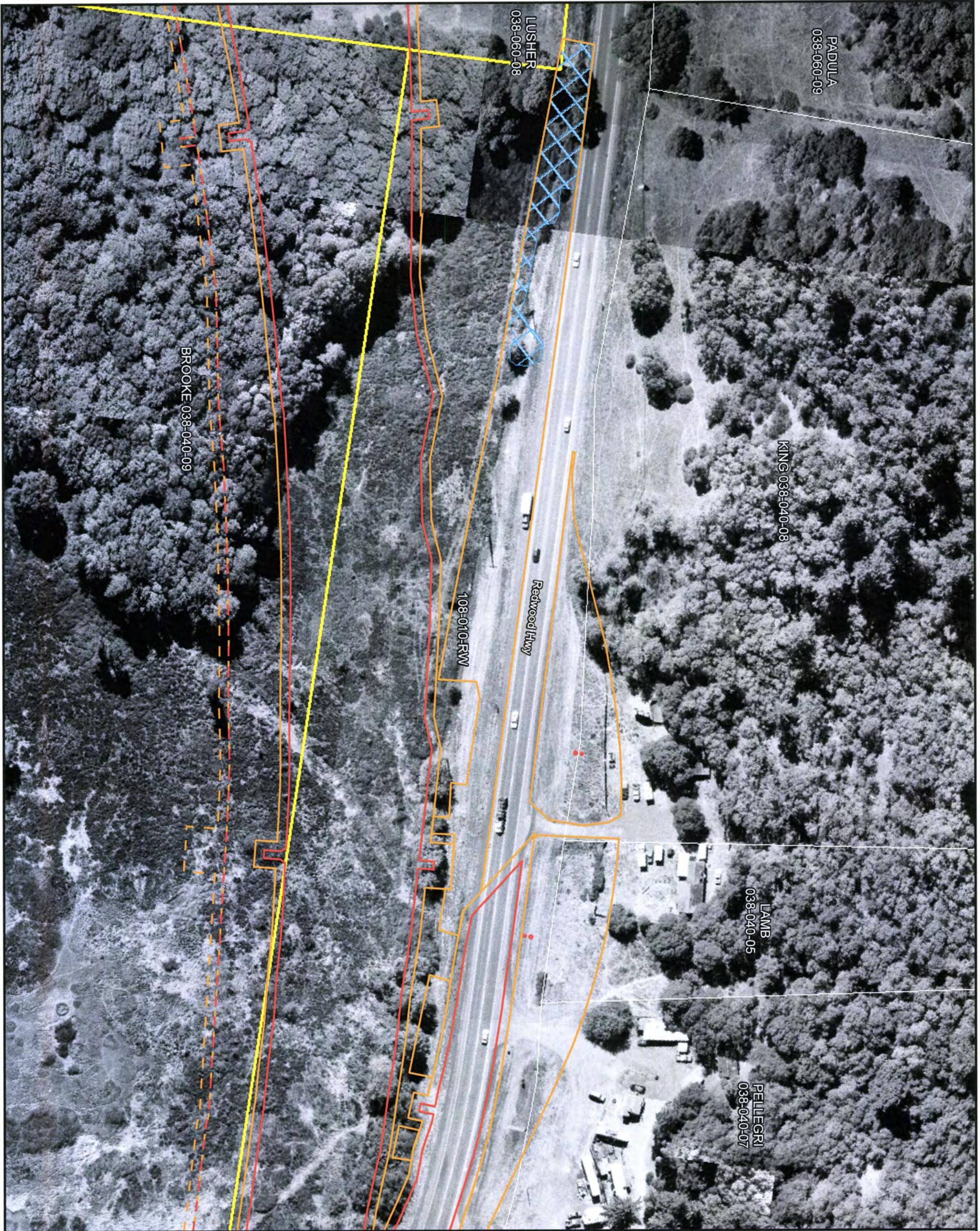
- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



**Sheet B-54**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps





**Legend**

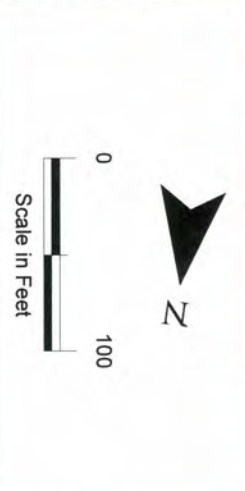
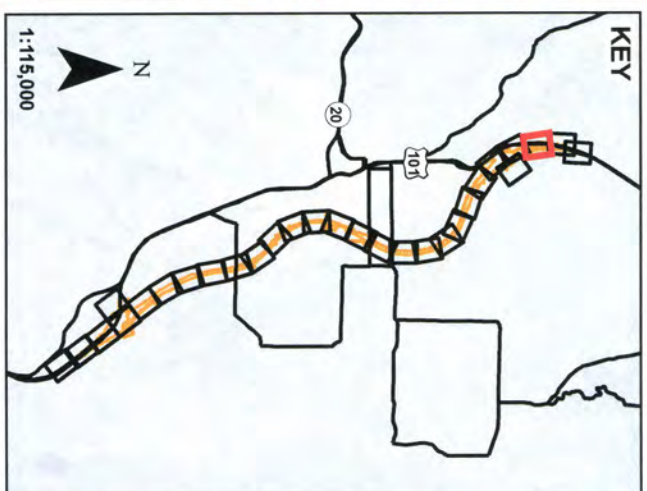
- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

- Permanent
- Temporary
- Support Columns
- Parcel

**Sensitive Biological Resources**

- Offsite Mitigation Parcel
- Protected Fisheries Area
- Riparian Corridor Areas

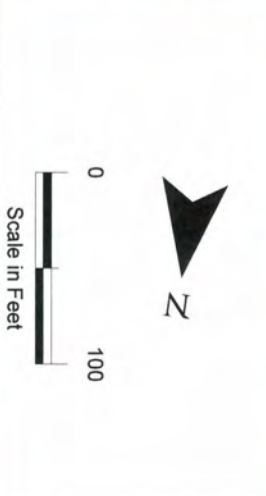
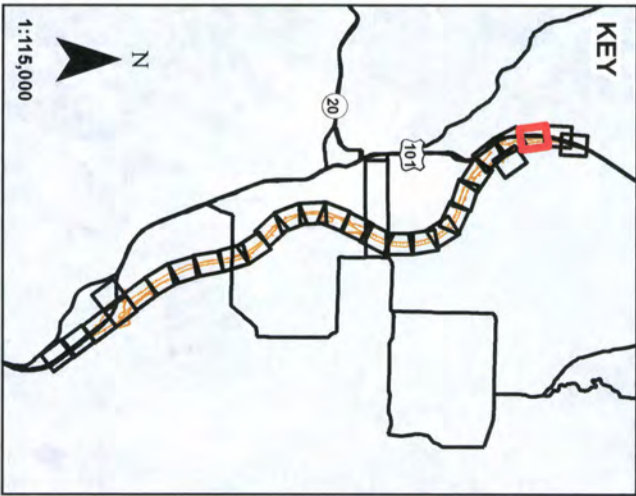


**Sheet B-55**  
**Riparian Habitat**  
**Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
  - Parcel
- Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



**Sheet B-56**  
 Jurisdictional Wetland Impacts  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

**Alignment - Phase 1**

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

**Alignment - Phase 2**

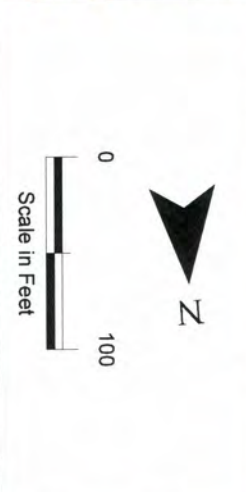
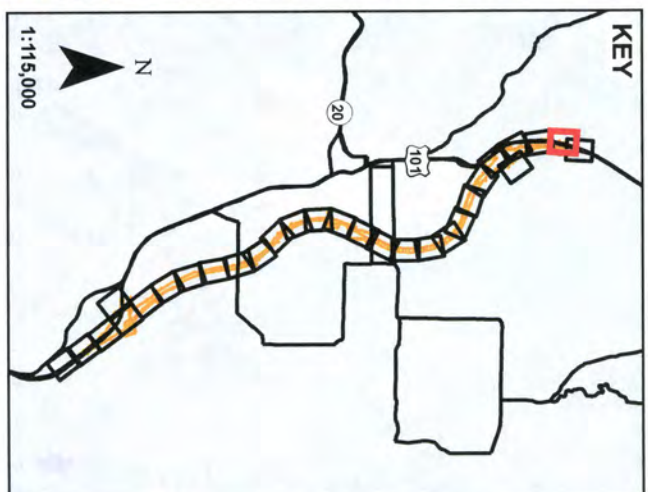
- Permanent
- Temporary
- Support Columns

**Parcel**

- Offsite Mitigation Parcel

**Sensitive Biological Resources**

- Protected Fisheries Area
- Riparian Corridor Areas

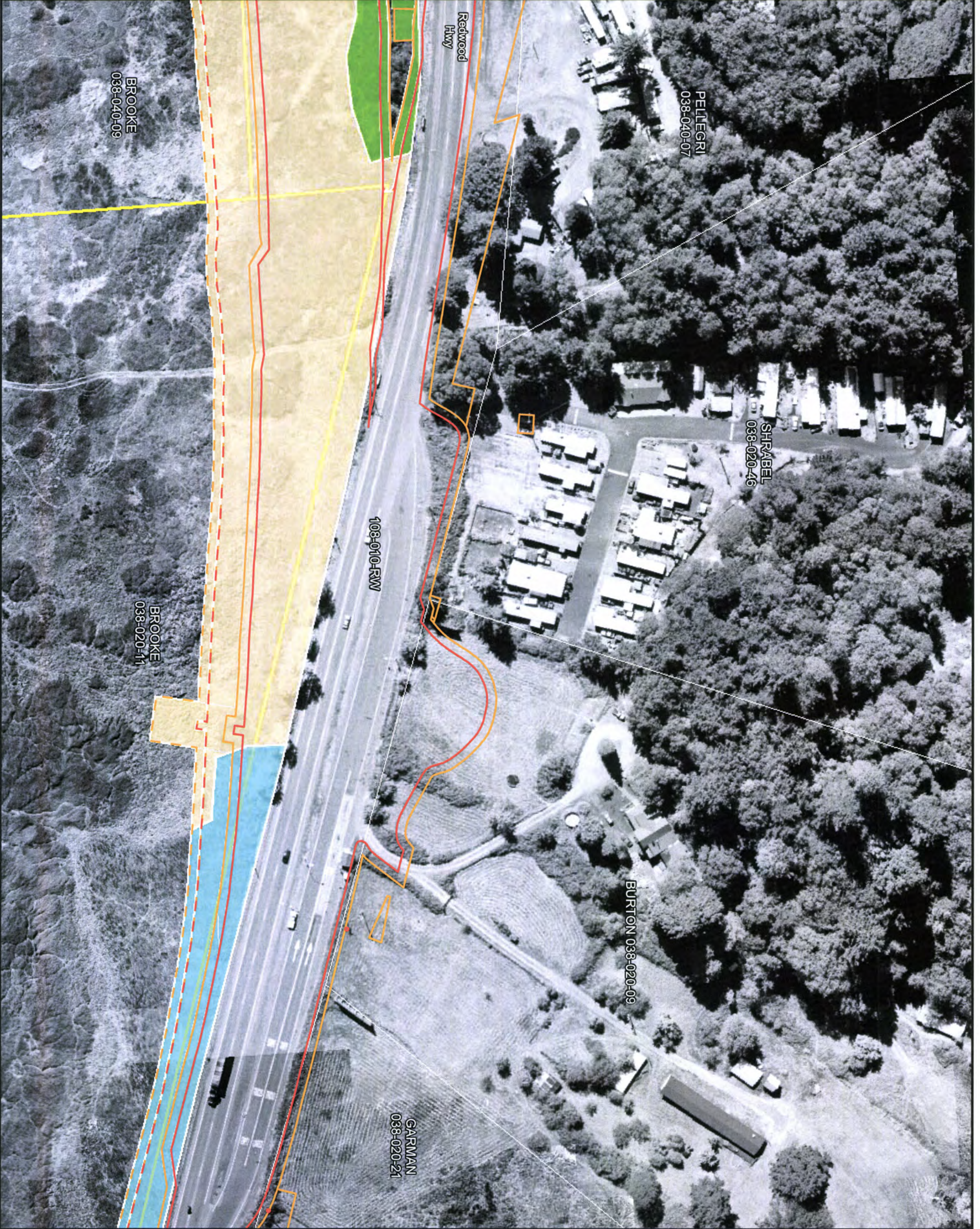


**Sheet B-57**

**Riparian Habitat Impacts**

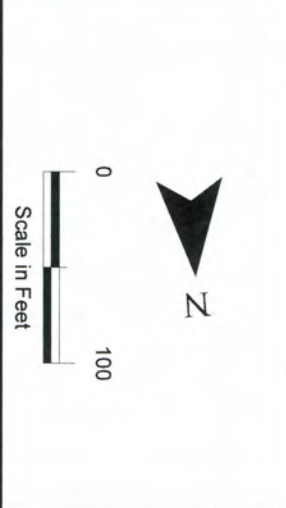
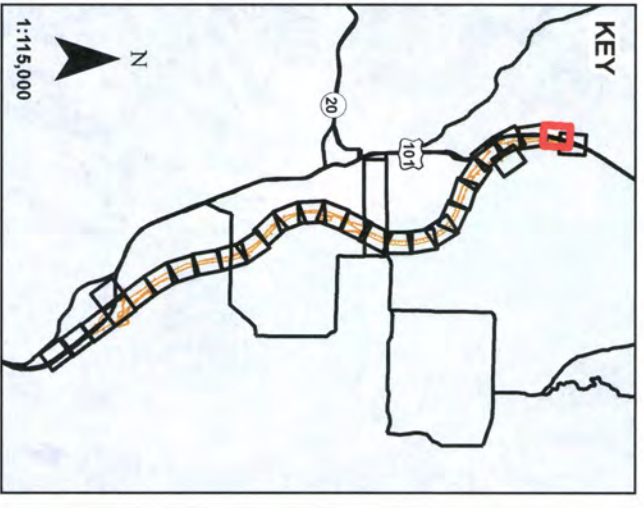
**Willits Bypass Project**

**Sensitive Biological Resources Impact Maps**



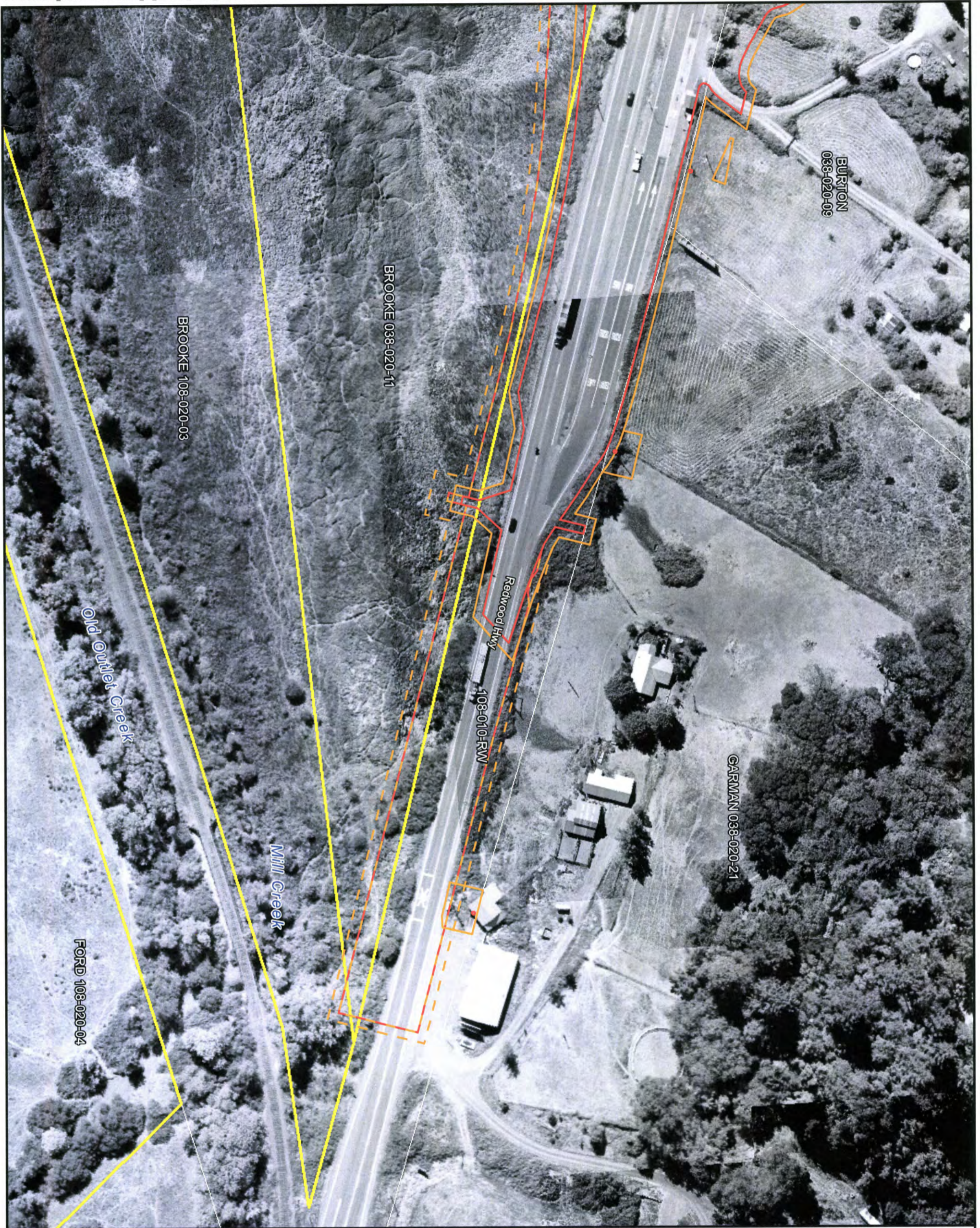
**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



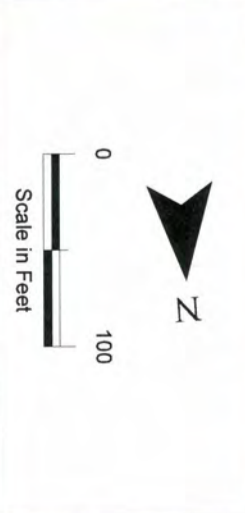
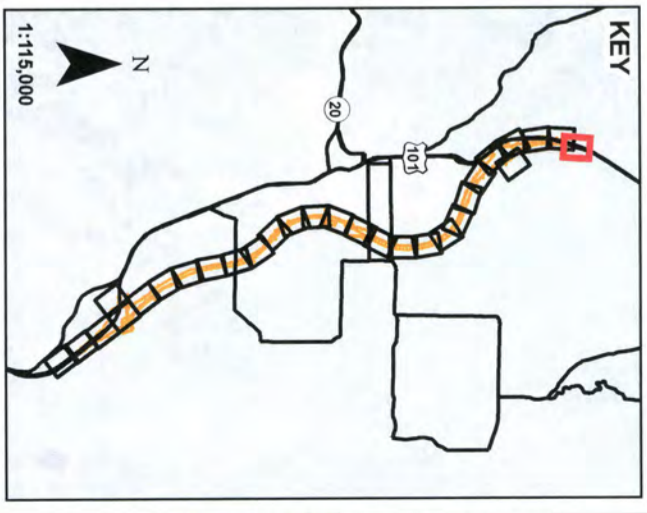
**Sheet B-58**

**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps

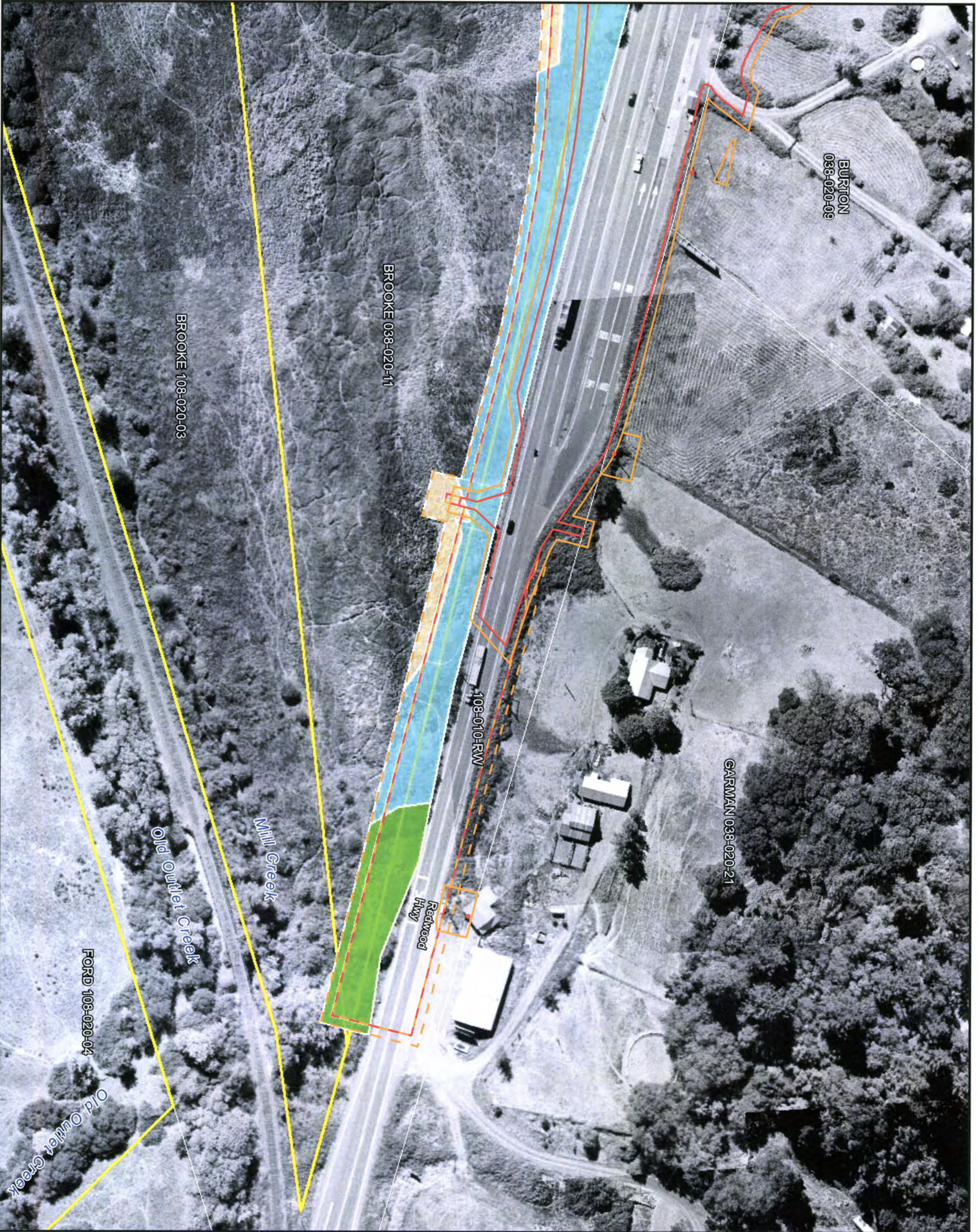


**Legend**

- Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns
- Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel
- Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas

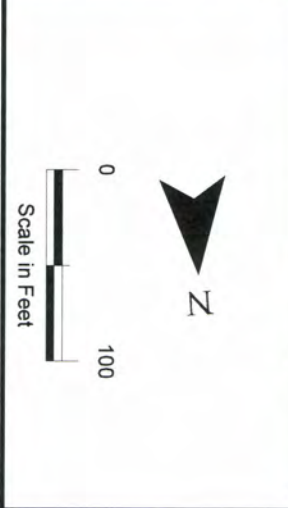
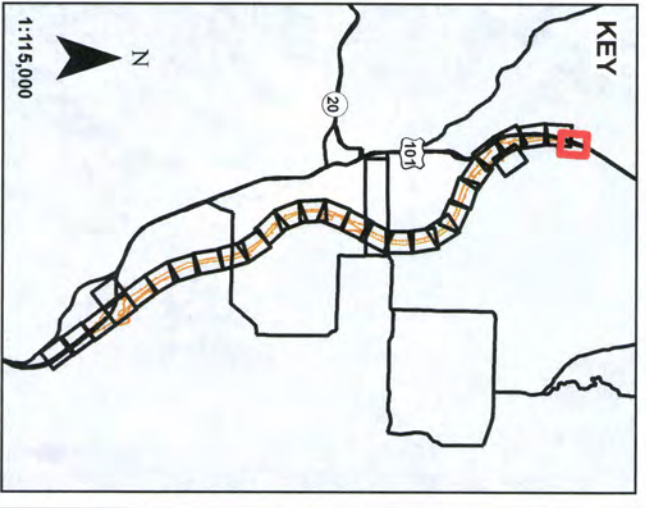


**Sheet B-59**  
**Riparian Habitat**  
**Impacts**  
 Willits Bypass Project  
 Sensitive Biological Resources  
 Impact Maps



**Legend**

- Alignment - Phase 1
  - Permanent Impact Boundary
  - Temporary Impact Boundary
  - Support Columns
- Alignment - Phase 2
  - Permanent
  - Temporary
  - Support Columns
- Parcel
  - Offsite Mitigation Parcel
- Jurisdictional Wetlands and Other Waters
  - Marsh
  - Riparian Wetland
  - Swale
  - Vernal Pool
  - Wet Meadow
  - Other Waters



**Jurisdictional Wetland Impacts**  
 Willits Bypass  
 Sensitive Biological Resources  
 Impact Maps

**Sheet B-60**

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REGULATORY DIVISION