Willits Bypass Project
Mitigation and Monitoring Proposal

Appendices B – M

U.S. Highway 101

Mendocino County, near the City of Willits, California

PM 43.1-52.3

01-26200

USACE file no. 1991-194740N

April 2013

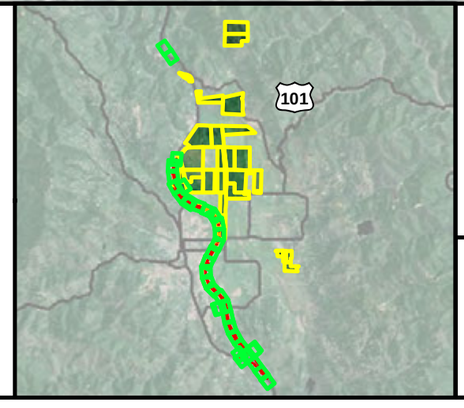
Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

Appendix B
Aquatic Resources Impact Maps

Map Sheet Number	Riparian and Oak Sheets	Wetlands Sheets
01	1	
02	2	
03	3	4
04	5	6
05	9	10
06	7	8
07	11	12
08	13	14
09	15	16
10	17	18
11	19	20
12	21	22
13	23	24
14	25	26

Map Sheet Number	Riparian and Oak Sheets	Wetlands Sheets	Listed Plants Sheets
15	27	28	29
16	30	31	32
17	33	34	35
18	36	37	38
19	39	40	41
20	42	43	44
21	45	46	47
22	48	49	
23	50	51	52
24	53	54	55
25	56	57	58
26	59	60	61
27	62	63	64
28	65	66	67

Map Sheets Number	Riparian and Oak Sheets	Wetlands Sheets
29	68	69
30	70	71
31	72	73
32	74	



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Data Sources
Aerials - ArcGIS Online (NAIP 2005)
Alignment - Caltrans (4/5/2012)

Appendix B

Proposed Willits Bypass
Sensitive
Biological Resources
Impact Maps

FENOLIO 104-180-04

FENOLIO 104-160-25

FENOLIO 104-160-23

FENOLIO 104-260-01

104-120-RW

SCHMIDBAUER 104-260-07

SCHMIDBAUER 104-140-03

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

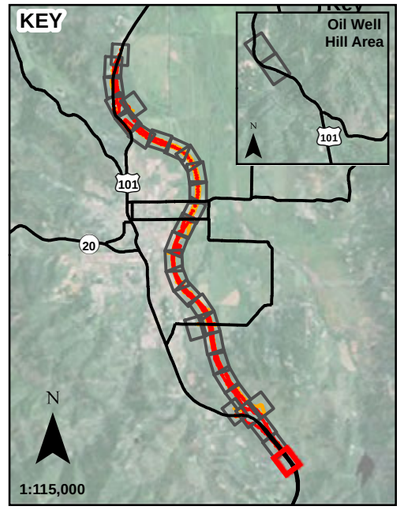
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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0 100

Scale in Feet

Sheet B-1

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

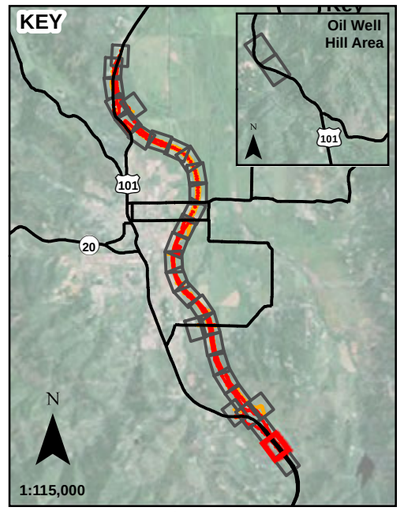
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-2

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

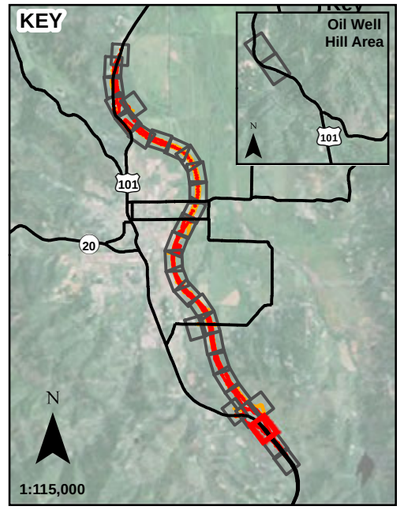
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-3

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

FENOLIO
104-140-02

FENOLIO
104-120-01

104-120-RW

SCHMIDBAUER
104-140-03

SCHMIDBAUER
104-120-03

Legend

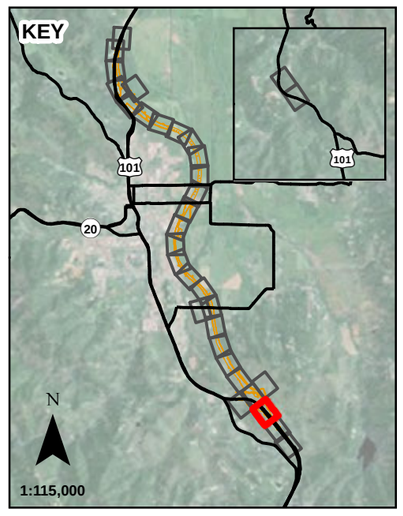
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-4

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

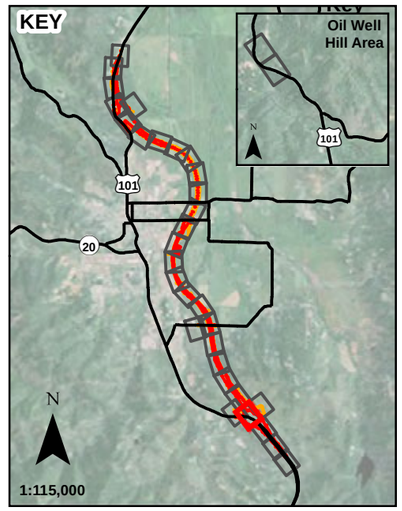
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-5

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

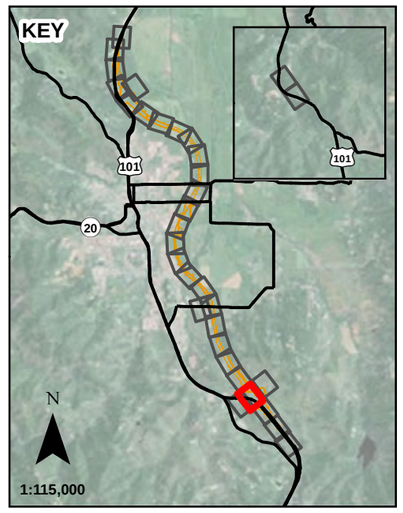
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-6

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

CADGENE 104-110-14

KENDRICK 104-110-08

WALTER 104-090-05

SCHRAGE 104-110-10

FENOLIO 104-110-13

104-120-RW

HARWOOD 104-090-06

104-110-RW

OCHOA 104-110-12

SCHMIDBAUER 104-090-04

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

Parcel

New Power Pole Location

Riparian Corridor

Catagory I - Riparian Corridor

Catagory II - Riparian Corridor

Catagory III - Riparian Corridor

Oak Woodlands

Black Oak

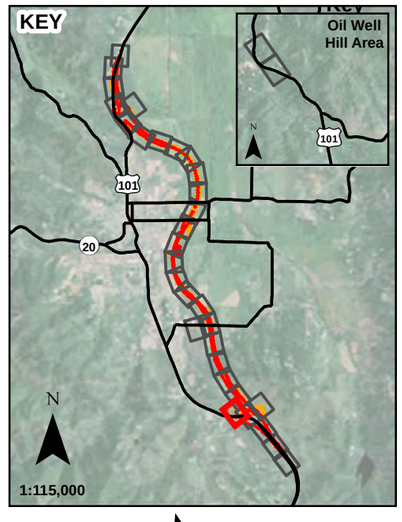
Oregon White Oak

Valley Oak

Oakland Woodland Grassland

Lowland

Upland



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Scale in Feet

Sheet B-7

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

CADGENE
104-110-14

KENDRICK
104-110-08

104-110-RW

WALTER
104-090-05

SCHRAGE
104-110-10

FENOLIO
104-110-13

104-120-RW

HARWOOD
104-090-06

104-110-RW

OCHOA
104-110-12

SCHMIDBAUER
104-090-04

Legend

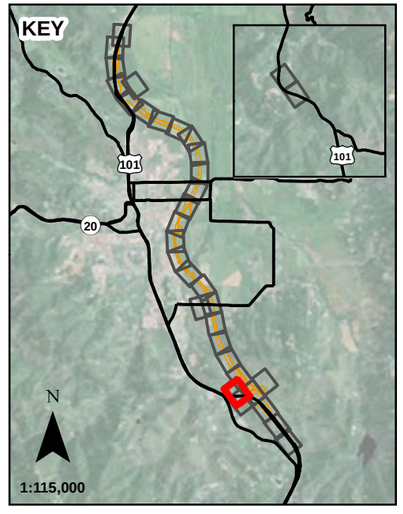
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-8

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

104-120-RW

SCHMIDBAUER 104-090-03

SCHMIDBAUER 104-100-03

SCHMIDBAUER 104-120-02

SCHMIDBAUER 104-100-04

SCHMIDBAUER 104-100-02

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

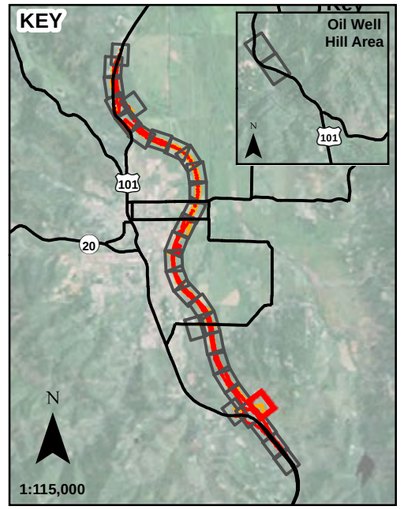
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-9

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

104-120-RW

SCHMIDBAUER
104-090-03

SCHMIDBAUER
104-100-03

SCHMIDBAUER
104-120-02

SCHMIDBAUER
104-100-04

SCHMIDBAUER
104-100-02

Legend

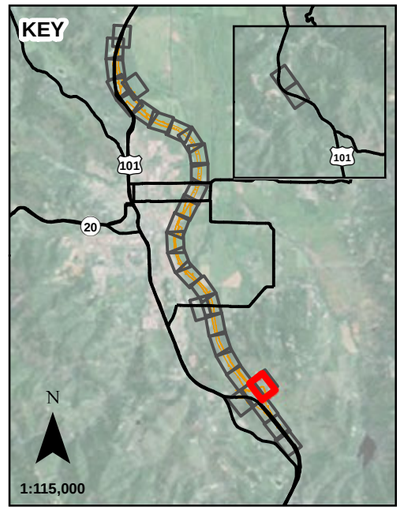
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-10

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

OCHOA 104-110-12

HARWOOD 104-090-06

SCHMIDBAUER 104-090-04

104-120-RW

SCHMIDBAUER 104-090-03

BURGESS 104-070-05

SCHMIDBAUER 104-100-03

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

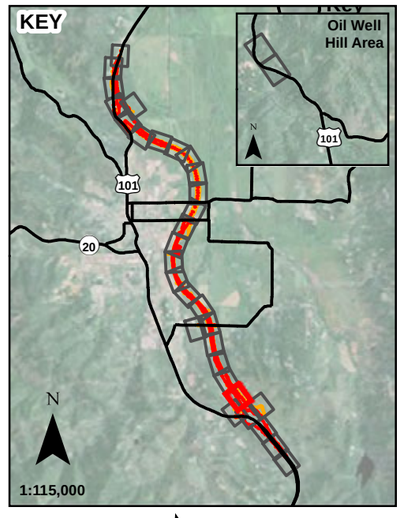
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-11

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

OCHOA
104-110-12

HARWOOD
104-090-06

SCHMIDBAUER
104-090-04

104-120-RW

SCHMIDBAUER
104-090-03

BURGESS
104-070-05

SCHMIDBAUER
104-100-03

Legend

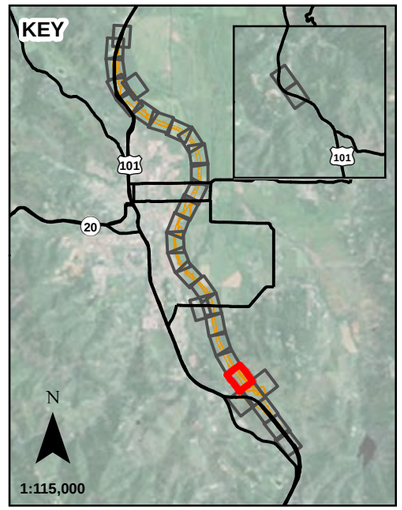
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-12

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

HARWOOD 104-090-06

HARWOOD 104-070-06

SCHMIDBAUER 104-090-04

104-120-RW

SCHMIDBAUER 104-090-03

BURGESS 104-070-05

MORRIS 104-070-03

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

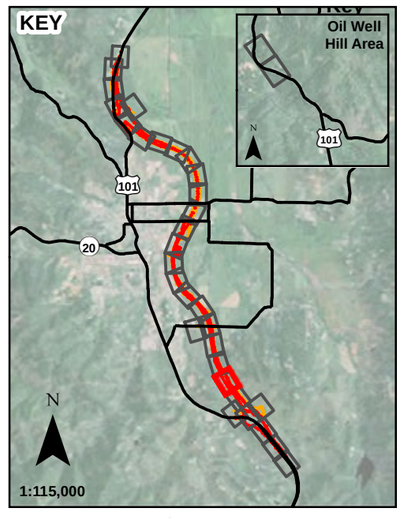
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-13

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

HARWOOD
104-090-06

HARWOOD
104-070-06

SCHMIDBAUER
104-090-04

104-120-RW

SCHMIDBAUER
104-090-03

BURGESS
104-070-05

MORRIS
104-070-03

Legend

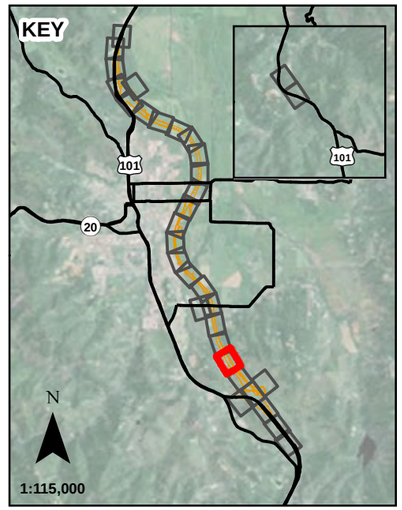
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-14

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

HARWOOD 104-070-06

HARWOOD 104-050-02

108-010-RW

HANDLEY 104-050-16

STATE 104-050-15

104-120-RW

Ditch

MORRIS 104-050-10

MORRIS 104-070-03

MORRIS 104-050-11

BURGESS 104-070-05

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

Parcel

New Power Pole Location

Riparian Corridor

Catagory I - Riparian Corridor

Catagory II - Riparian Corridor

Catagory III - Riparian Corridor

Oak Woodlands

Black Oak

Oregon White Oak

Valley Oak

Oakland Woodland Grassland

Lowland

Upland

KEY

Oil Well Hill Area

101

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Scale in Feet

Sheet B-15

Riparian and Oak Woodland Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

HARWOOD
104-070-06

HARWOOD
104-050-02

108-010-RW

HANDLEY
104-050-16

STATE
104-050-15

104-120-RW

Ditch

MORRIS
104-050-10

MORRIS
104-070-03

MORRIS
104-050-11

BURGESS
104-070-05

Legend

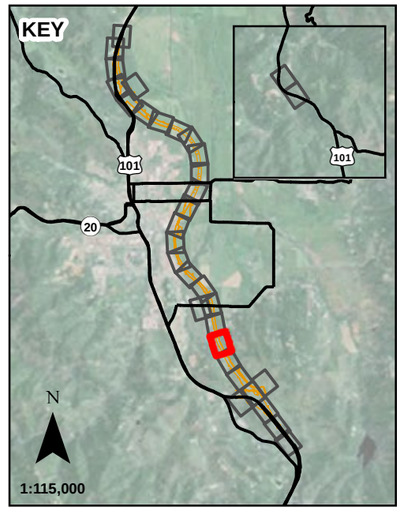
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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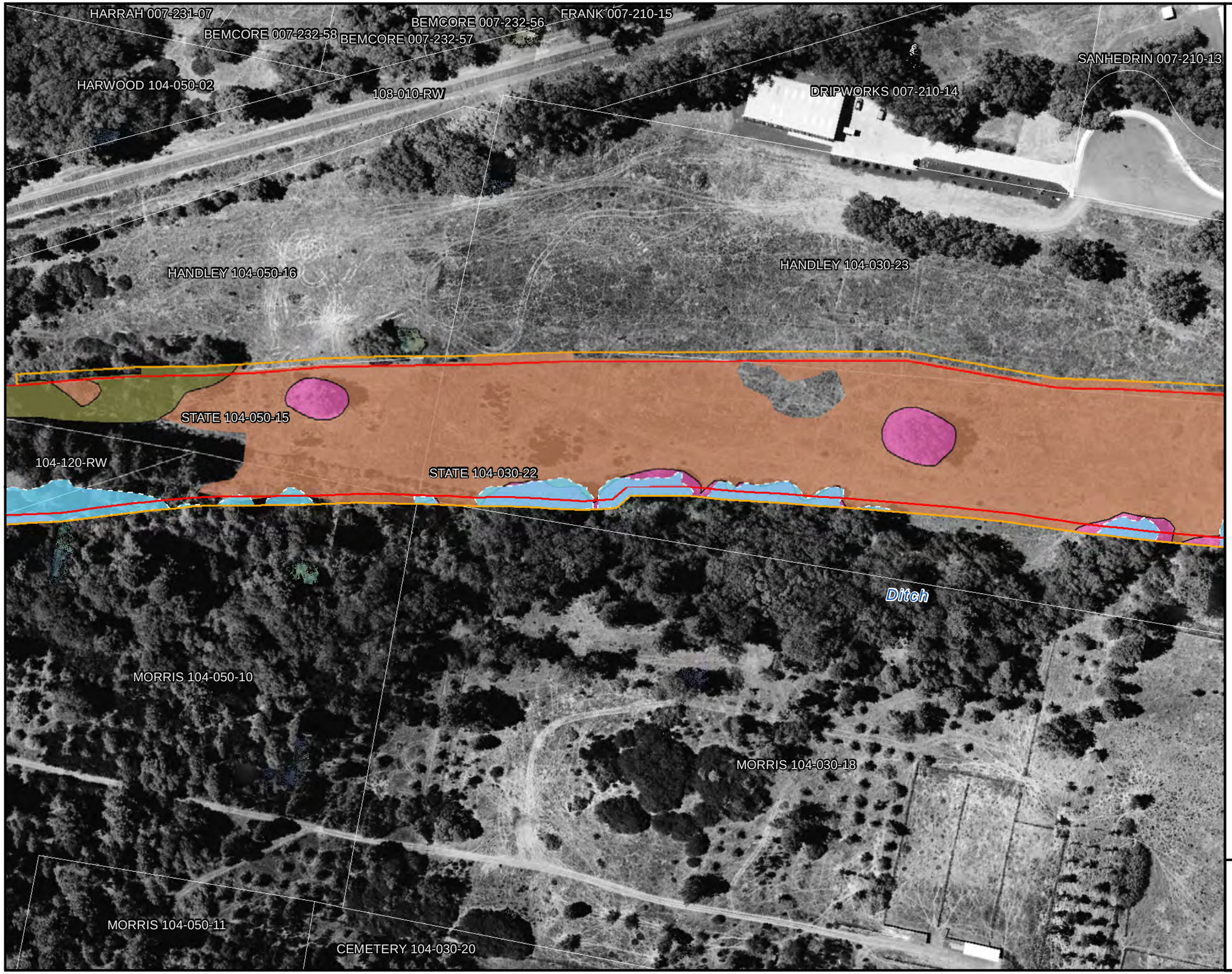
Scale in Feet

Sheet B-16
Waters of the States Impacts
Willits Bypass Project
Sensitive Biological Resources
Impact Maps



Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

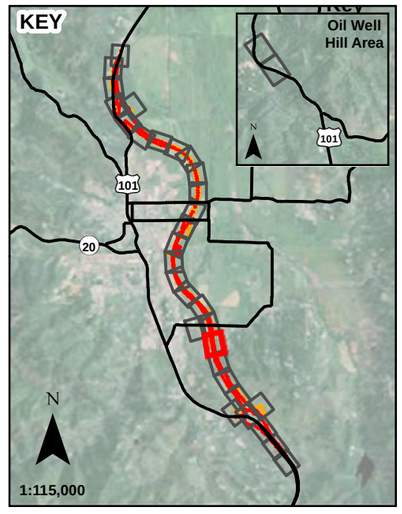
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-17

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

HARRAH
007-231-07

BEMCORE
007-232-58

BEMCORE
007-232-57

BEMCORE
007-232-56

BEMCORE
007-232-55

FRANK
007-210-15

SANHEDRIN
007-210-13

HARWOOD
104-050-02

108-010-RW

DRIPWORKS
007-210-14

San Hedrin Cir

HANDLEY
104-050-16

HANDLEY
104-030-23

STATE
104-050-15

104-120-RW

STATE
104-030-22

Ditch

MORRIS
104-050-10

MORRIS
104-030-18

MORRIS
104-050-11

CEMETERY
104-030-20

Legend

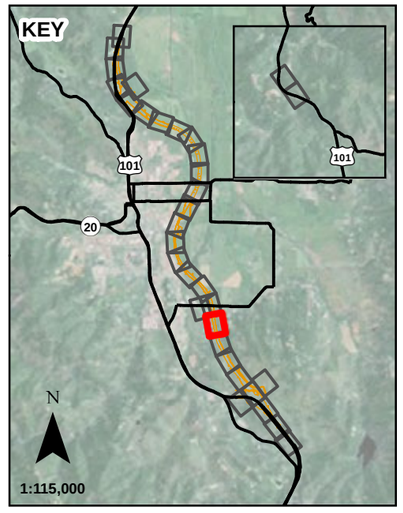
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

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Scale in Feet

Sheet B-18

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

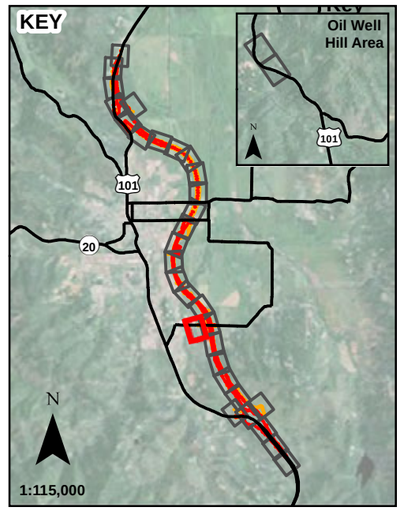
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

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Scale in Feet

Sheet B-19

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

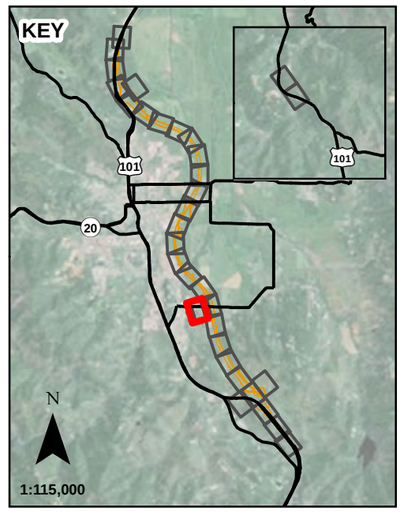
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

0 100

Scale in Feet

Sheet B-20

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

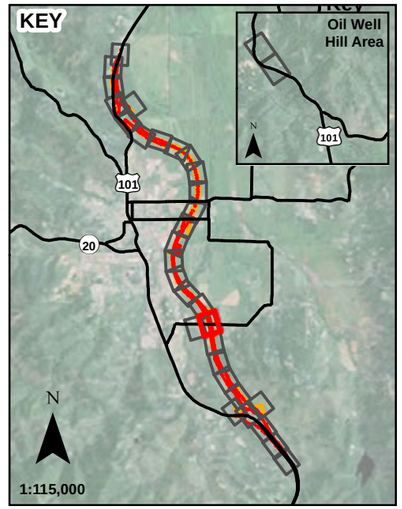
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

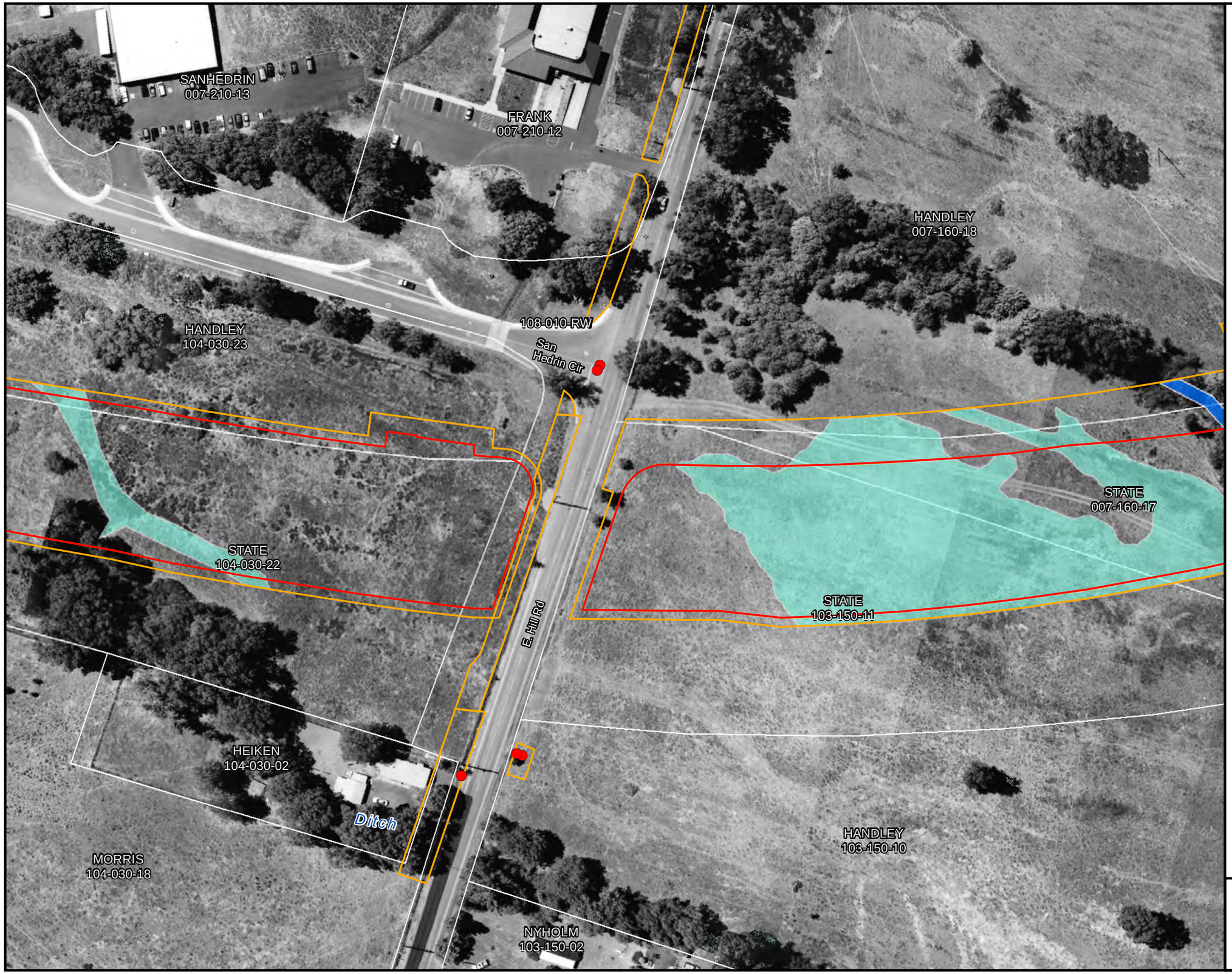
0 100

Scale in Feet

Sheet B-21

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps



Legend

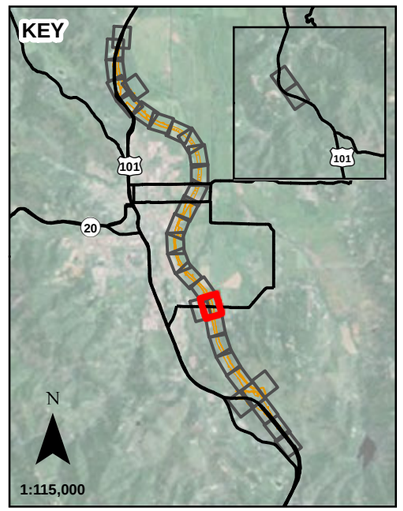
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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0 100

Scale in Feet

Sheet B-22

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

HANDLEY 007-160-18

STATE 007-100-29

STATE 007-160-17

STATE 103-150-11

HANDLEY 007-160-16

HANDLEY 103-150-10

FORD 007-100-11

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

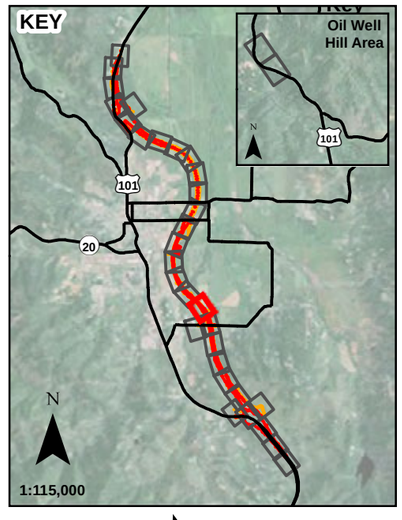
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-23

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

HANDLEY
007-160-18

STATE
007-100-29

STATE
007-160-17

STATE
103-150-11

HANDLEY
103-150-10

HANDLEY
007-160-16

FORD
007-100-11

Legend

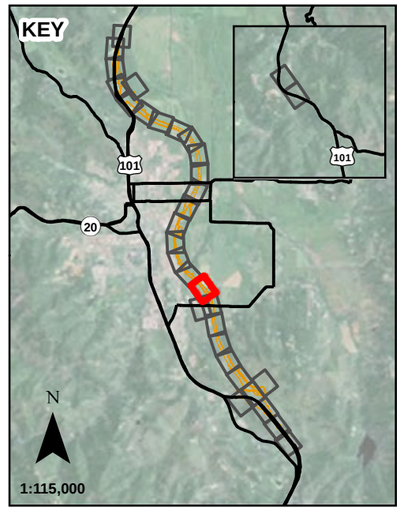
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-24

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

MICROPHOR 007-160-15

SENIOR 007-100-23

STATE 007-100-16

HANDLEY 007-160-18

108-010-RW

STATE 007-100-29

SEIBERLICH 007-100-08

RUTLEDGE 007-100-09

HANDLEY 007-100-30

FORD 007-100-11

Haehl Creek

Shell Ln

RUTLEDGE 007-070-01

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

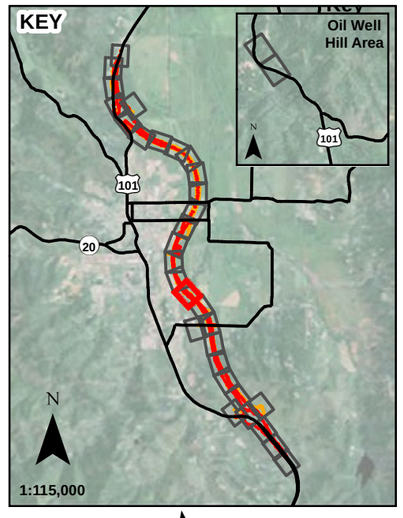
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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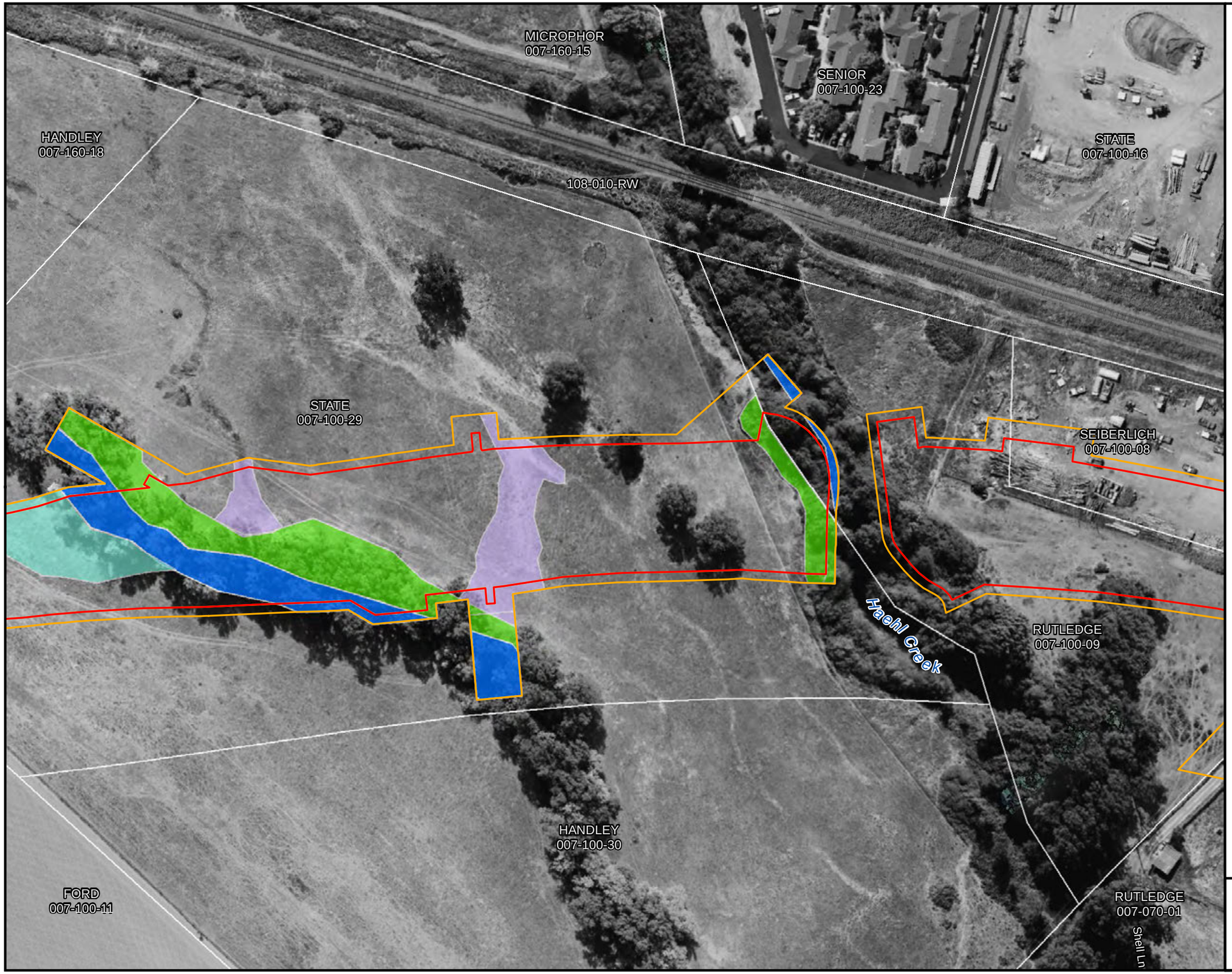
Scale in Feet

Sheet B-25

Riparian and Oak Woodland Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps



Legend

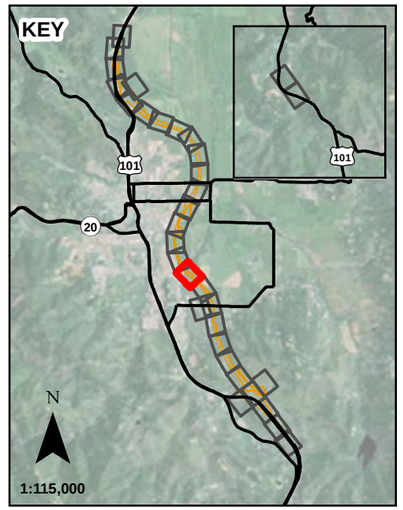
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-26

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

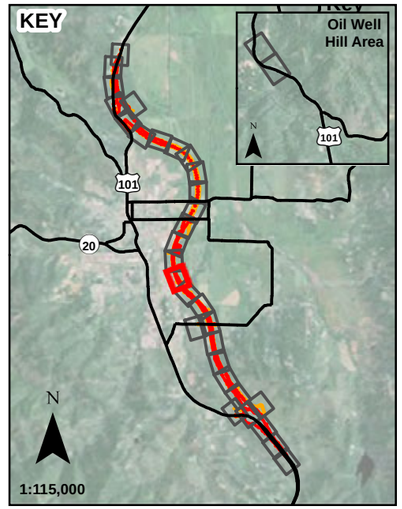
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-27

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

BOWEN
007-100-21

PETERS
007-060-06

STATE
007-100-16

NORCAL
007-100-20

PETERS
007-060-07

PERSICO
007-060-08

108-010-RW

SEIBERLICH
007-100-08

RUTLEDGE
007-100-09

RUTLEDGE
007-070-01

STATE
007-100-29

Haehl Creek

Shell Ln

HANDLEY
007-100-30

Legend

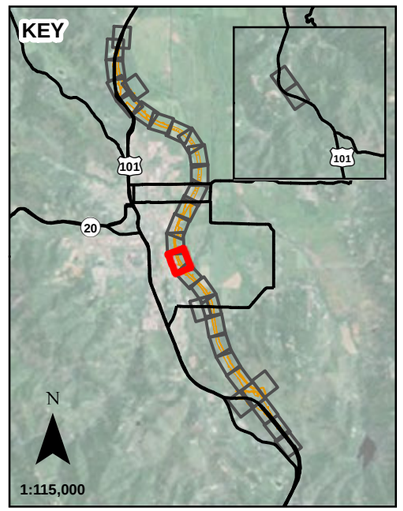
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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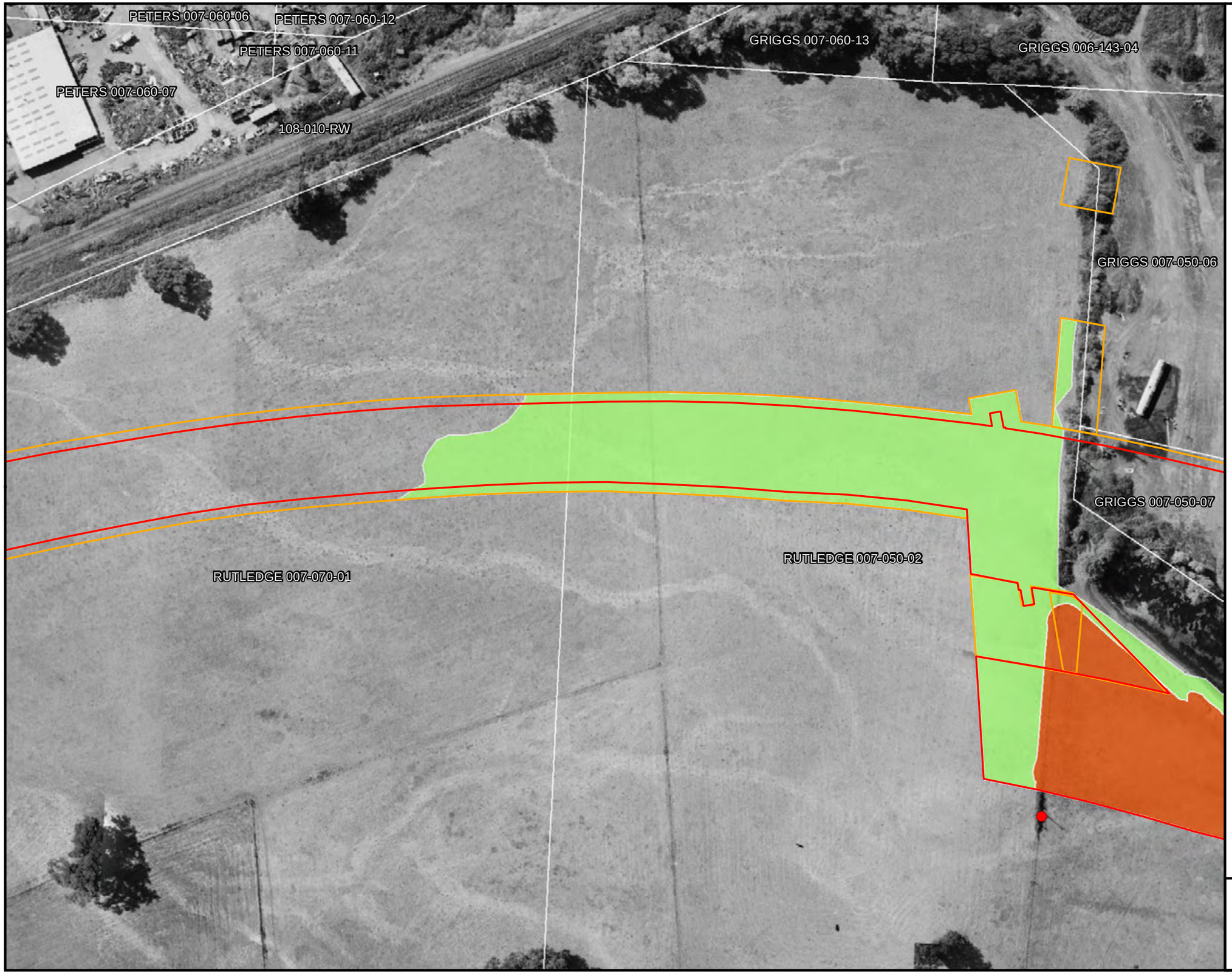
Scale in Feet

Sheet B-28

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps



Legend

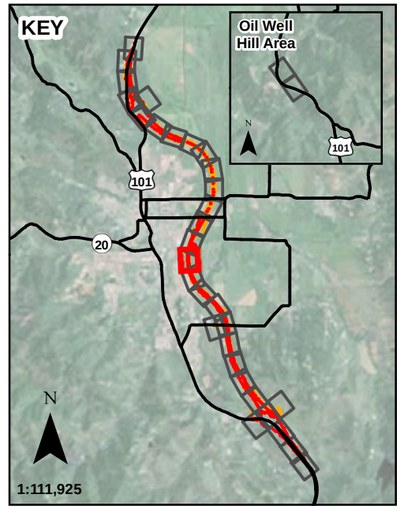
- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- New Power Pole Location
- Parcel

Listed Plants

- North Coast Semaphore Grass Observed
  -Source: ICF 2010
- Baker's Meadowfoam Observed
  Source:
  -URS 2006
  -Caltrans 2007
  -Caltrans 2007, URS 2009
  -ICF J&S 2009
  -ICF J&S 2009, Caltrans 2007
  -ICF J&S 2009, URS 2009
  -ICF J&S 2009, URS 2009, Caltrans 2007
  -URS 2009
  -ICF 2011
- Baker's Meadowfoam Potential Habitat



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Scale in Feet

Sheet B-29

Listed Plant Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

PETERS 007-060-06
PETERS 007-060-12
PETERS 007-060-11
PETERS 007-060-07
108-010-RW
GRIGGS 007-060-13
GRIGGS 006-143-04
GRIGGS 007-050-06
GRIGGS 007-050-07
RUTLEDGE 007-050-02
RUTLEDGE 007-070-01

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary
Temporary Impact Boundary
Parcel
New Power Pole Location

Riparian Corridor

Catagory I - Riparian Corridor
Catagory II - Riparian Corridor
Catagory III - Riparian Corridor

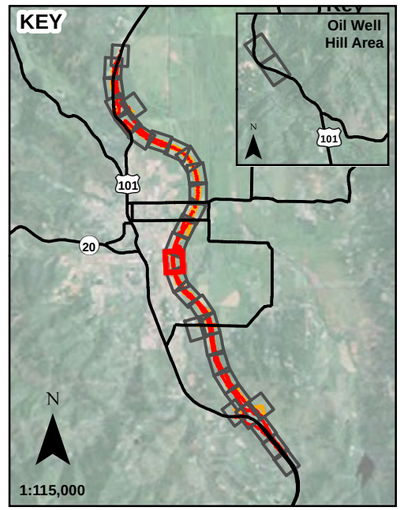
Oak Woodlands

Black Oak
Oregon White Oak
Valley Oak

Oakland Woodland Grassland

Lowland
Upland

KEY



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Scale in Feet

Sheet B-30

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

PETERS 007-060-06

PETERS 007-060-12

PETERS 007-060-11

PETERS 007-060-07

108-010-RW

GRIGGS 007-060-13

GRIGGS 006-143-04

GRIGGS 007-050-06

GRIGGS 007-050-07

RUTLEDGE 007-050-02

RUTLEDGE 007-070-01

Legend

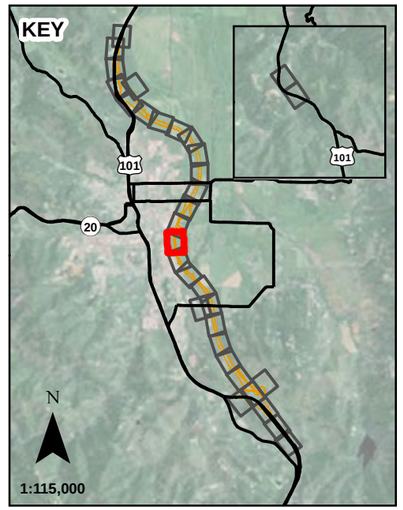
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-31

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

GRIGGS 006-143-04

WINDSOR 007-050-05

Baechtel Creek

WINDSOR 007-040-16

108-010-RW

GRIGGS 007-050-06

WINDSOR 007-040-14

GRIGGS 007-050-07

STATE 007-040-06

STATE 007-040-07

RUTLEDGE 007-050-02

GILSTRAP 007-040-08

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

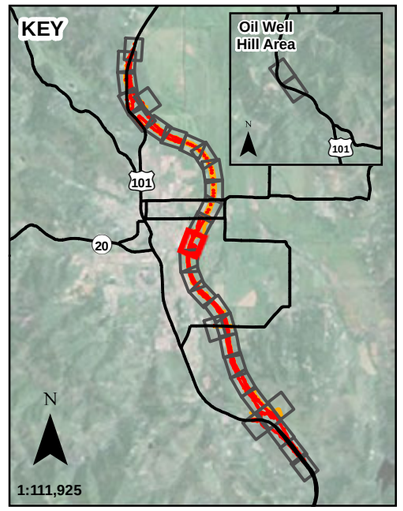
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



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Scale in Feet

Sheet B-32

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

GRIGGS 006-143-04

WINDSOR 007-050-05

Baechtel Creek

WINDSOR 007-040-16

108-010-RW

GRIGGS 007-050-06

WINDSOR 007-040-14

GRIGGS 007-050-07

STATE 007-040-06

STATE 007-040-07

RUTLEDGE 007-050-02

GILSTRAP 007-040-08

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

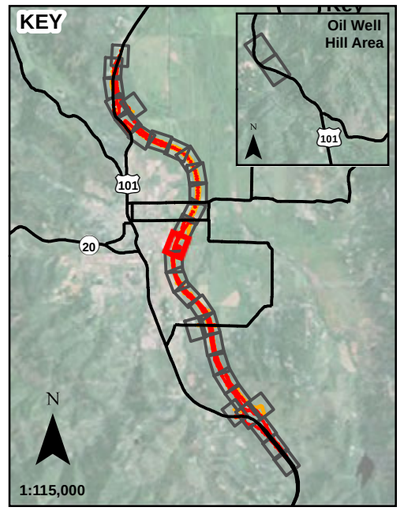
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-33

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

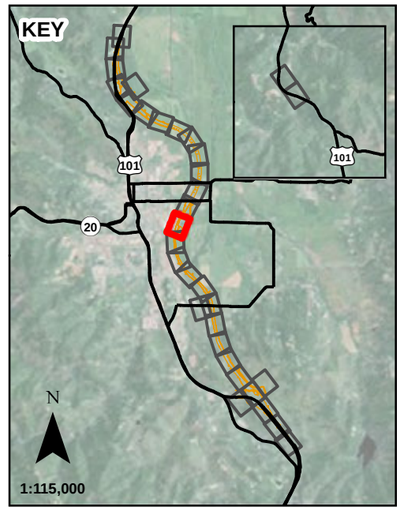
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-34

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

WINDSOR 007-040-16
GRIGGS 007-040-15
HATHAWAY 007-031-13
TWEDDELL 007-040-17
Baechtel Creek
HATHAWAY 007-032-03
WINDSOR 007-040-14
STATE 007-040-06
108-010-RW
SHUSTERS 007-032-04
STATE 007-040-07
GILSTRAP 007-040-09
Center Valley Rd
GILSTRAP 007-040-08
WILLITS 007-032-05
GILSTRAP 007-040-10
Haehl Creek
WILLITS 007-040-11

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

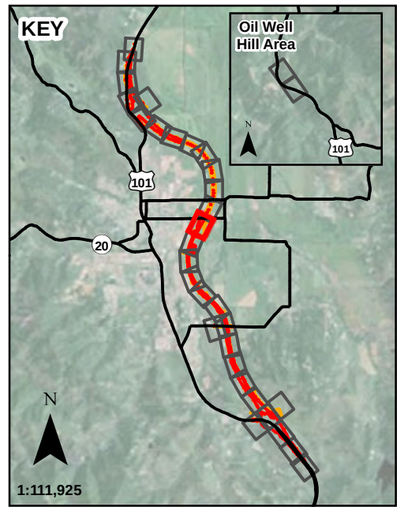
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



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Scale in Feet

Sheet B-35

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

WINDSOR 007-040-16

GRIGGS 007-040-15

HATHAWAY 007-031-13

Baechtel Creek

TWEDDELL 007-040-17

HATHAWAY 007-032-03

WINDSOR 007-040-14

STATE 007-040-06

108-010-RW

SHUSTERS 007-032-04

STATE 007-040-07

GILSTRAP 007-040-09

Center Valley Rd

GILSTRAP 007-040-08

WILLITS 007-032-05

GILSTRAP 007-040-10

Haehl Creek

WILLITS 007-040-11

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

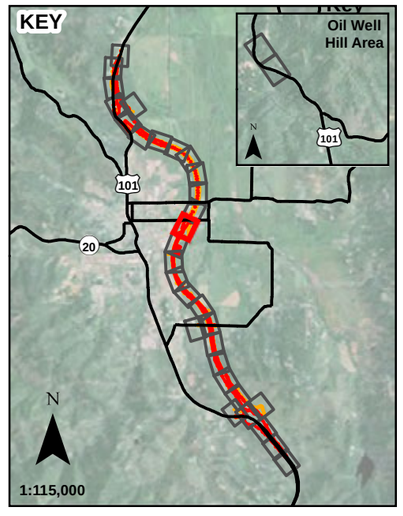
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-36

Riparian and Oak Woodland Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

WINDSOR
007-040-16

108-010-RW

GRIGGS
007-040-15

TWEDDELL
007-040-17

HATHAWAY
007-031-13

HATHAWAY
007-032-03

WINDSOR
007-040-14

Baechtel Creek

SHUSTERS
007-032-04

Center Valley Rd

STATE
007-040-06

STATE
007-040-07

GILSTRAP
007-040-09

GILSTRAP
007-040-08

GILSTRAP
007-040-10

WILLITS
007-032-05

Haehl Creek

WILLITS
007-040-11

Legend

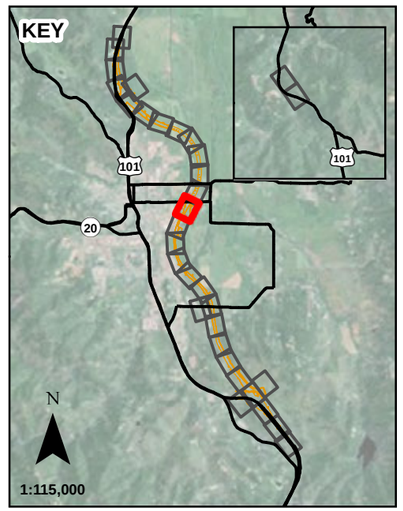
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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0 100

Scale in Feet

Sheet B-37

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

WILLITS 007-031-04
HATHAWAY 007-031-13
COUNTY 007-032-02
COUNTY 007-032-01
WILLITS 007-020-02
Baechtel Creek
HATHAWAY 007-032-03
Baechtel Creek
East Commercial St
BENBOW 007-020-03
JENSEN 007-032-10
SHUSTERS 007-032-04
GILSTRAP 007-040-09
WILLITS 007-032-05
HARMS 007-032-13
108-010-RW
GILSTRAP 007-040-10
HARMS 007-032-11
Haehl Creek
Center Valley Rd
007-030-RW
SHUSTERS 007-032-12
WILLITS 007-040-11

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

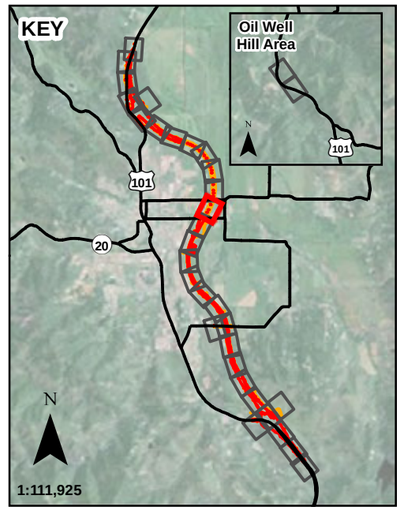
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



N

0 100

Scale in Feet

Sheet B-38

Listed Plant Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

WILLITS 007-031-04
HATHAWAY 007-031-13
COUNTY 007-032-02
COUNTY 007-032-01
WILLITS 007-020-02
Baechtel Creek
HATHAWAY 007-032-03
Baechtel Creek
East Commercial St
BENBOW 007-020-03
JENSEN 007-032-10
SHUSTERS 007-032-04
GILSTRAP 007-040-09
WILLITS 007-032-05
HARMS 007-032-13
108-010-RW
GILSTRAP 007-040-10
HARMS 007-032-11
Haehl Creek
Center Valley Rd
007-030-RW
SHUSTERS 007-032-12
WILLITS 007-040-11

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

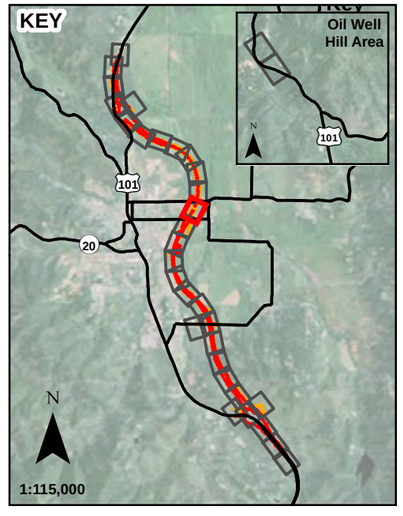
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

0 100

Scale in Feet

Sheet B-39

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

WILLITS
007-031-04

HATHAWAY
007-031-13

COUNTY
007-032-02

COUNTY
007-032-01

WILLITS
007-020-02

Baechtel Creek

HATHAWAY
007-032-03

Baechtel Creek

BENBOW
007-020-03

JENSEN
007-032-10

007-030-RW

SHUSTERS
007-032-04

East Commercial St

GILSTRAP
007-040-09

WILLITS
007-032-05

007-030-RW

HARMS
007-032-13

GILSTRAP
007-040-10

HARMS
007-032-11

Haehl Creek

108-010-RW

007-030-RW

007-030-RW

SHUSTERS
007-032-12

WILLITS
007-040-11

Center Valley Rd

007-030-RW

Legend

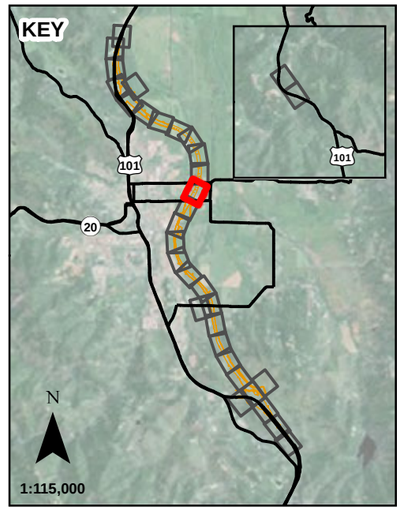
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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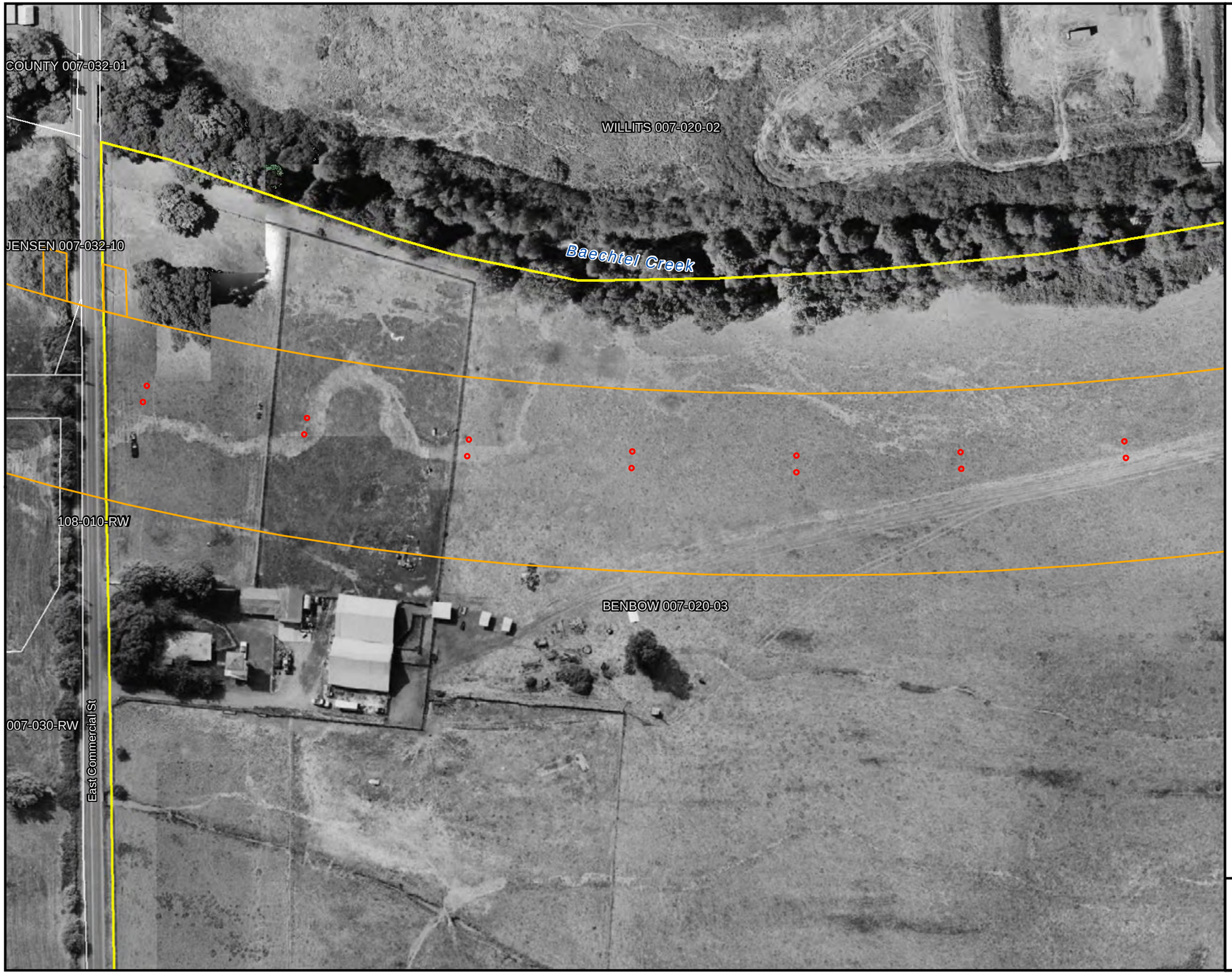
Scale in Feet

Sheet B-40
Waters of the States Impacts
Willits Bypass Project
Sensitive Biological Resources
Impact Maps



Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

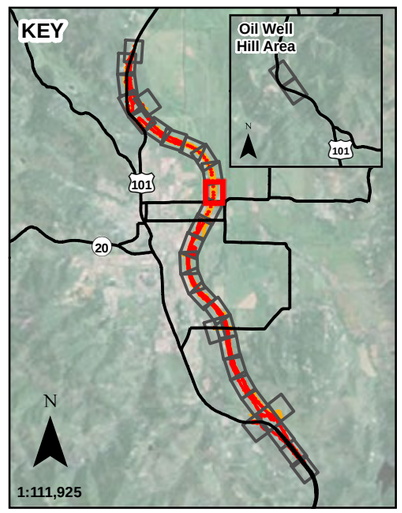
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



N

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Scale in Feet

Sheet B-41

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

COUNTY 007-032-01

WILLITS 007-020-02

JENSEN 007-032-10

Baechtel Creek

108-010-RW

BENBOW 007-020-03

007-030-RW

East Commercial St

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

Parcel

New Power Pole Location

Riparian Corridor

Catagory I - Riparian Corridor

Catagory II - Riparian Corridor

Catagory III - Riparian Corridor

Oak Woodlands

Black Oak

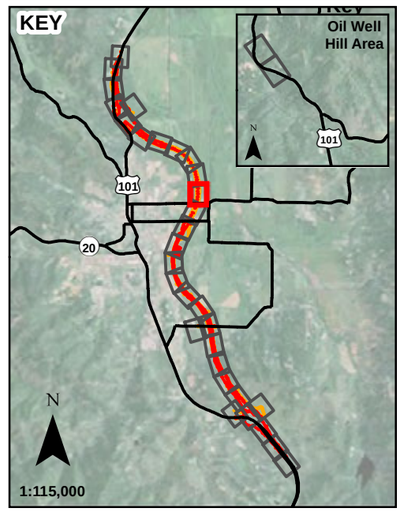
Oregon White Oak

Valley Oak

Oakland Woodland Grassland

Lowland

Upland



N

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Scale in Feet

Sheet B-42

Riparian and Oak Woodland Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

Legend

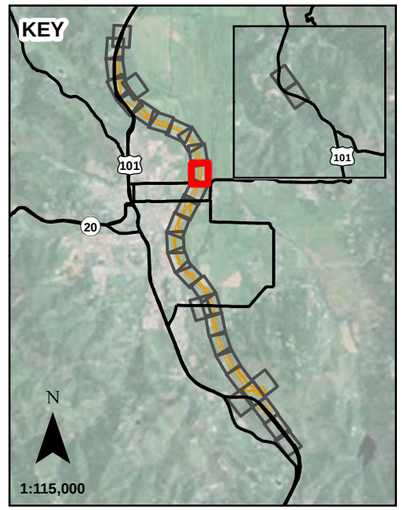
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

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Scale in Feet

Sheet B-43

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

Legend

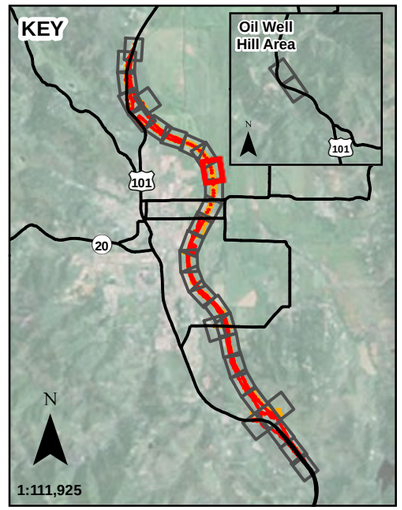
- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- New Power Pole Location
- Parcel

Listed Plants

- North Coast Semaphore Grass Observed
  -Source: ICF 2010
- Baker's Meadowfoam Observed
  Source:
  -URS 2006
  -Caltrans 2007
  -Caltrans 2007, URS 2009
  -ICF J&S 2009
  -ICF J&S 2009, Caltrans 2007
  -ICF J&S 2009, URS 2009
  -ICF J&S 2009, URS 2009, Caltrans 2007
  -URS 2009
  -ICF 2011
- Baker's Meadowfoam Potential Habitat



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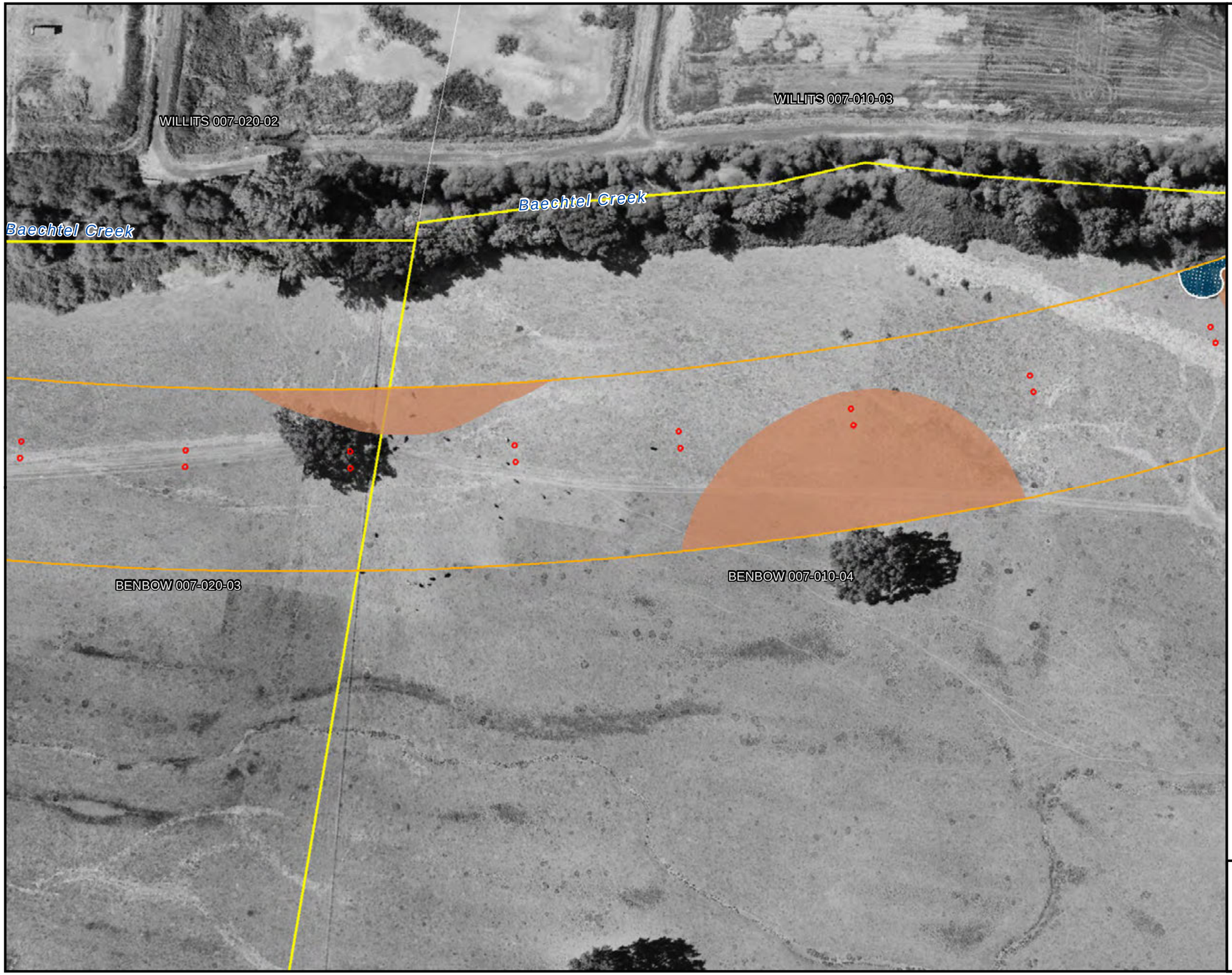
Scale in Feet

Sheet B-44

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps



Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

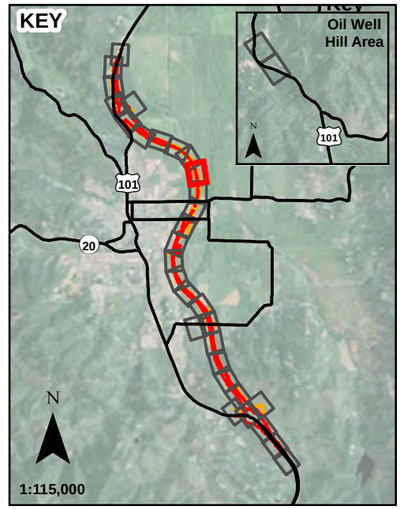
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



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Scale in Feet

Sheet B-45

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

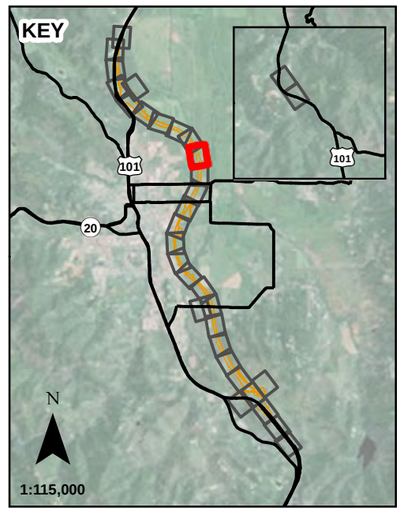
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-46

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

Legend

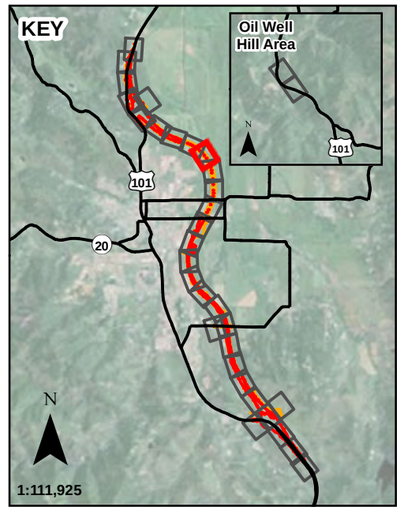
- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- New Power Pole Location
- Parcel

Listed Plants

- North Coast Semaphore Grass Observed
  -Source: ICF 2010
- Baker's Meadowfoam Observed
  Source:
  -URS 2006
  -Caltrans 2007
  -Caltrans 2007, URS 2009
  -ICF J&S 2009
  -ICF J&S 2009, Caltrans 2007
  -ICF J&S 2009, URS 2009
  -ICF J&S 2009, URS 2009, Caltrans 2007
  -URS 2009
  -ICF 2011
- Baker's Meadowfoam Potential Habitat



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Scale in Feet

Sheet B-47

Listed Plant Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

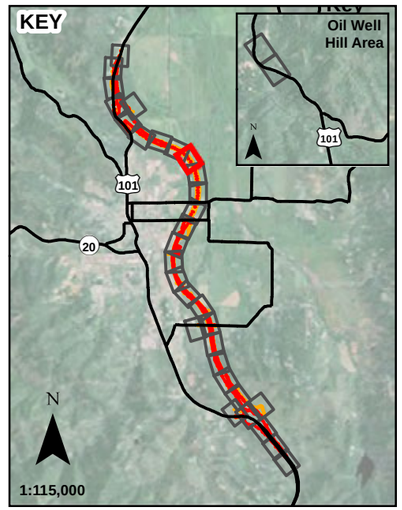
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

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Scale in Feet

Sheet B-48

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

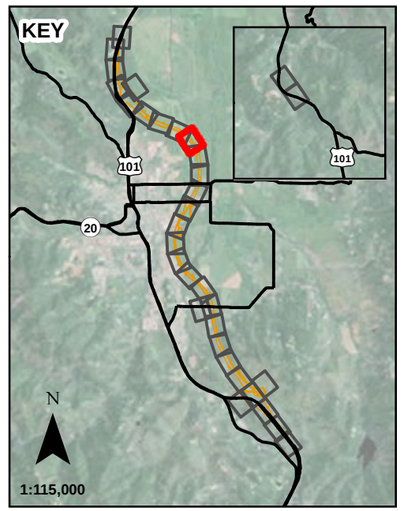
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

0 100

Scale in Feet

Sheet B-49

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

WILLITS 007-010-01

WILLITS 007-010-02

HUFFMAN 108-040-08

Mill Creek

CITY 108-040-03

CITY 108-040-14

Outlet Creek

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

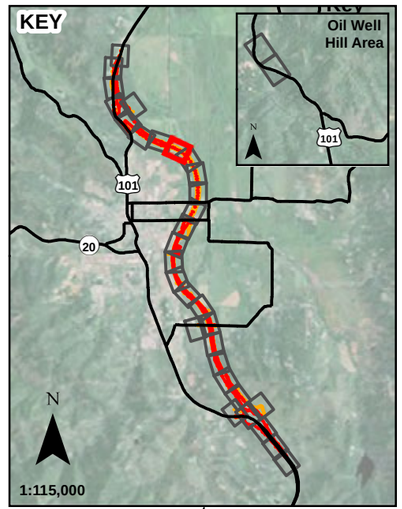
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

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Scale in Feet

Sheet B-50

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

WILLITS
007-010-02

WILLITS
007-010-01

HUFFMAN
108-040-08

CITY
108-040-03

Outlet Creek

Mill Creek

CITY
108-040-14

Legend

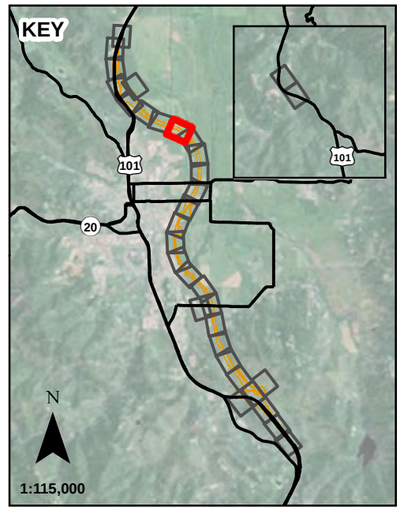
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

0 100

Scale in Feet

Sheet B-51

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

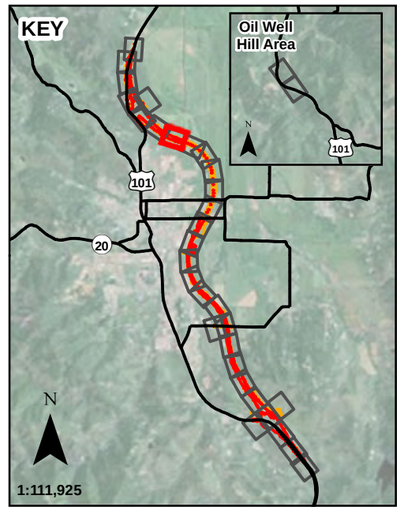
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



N

0 100

Scale in Feet

Sheet B-52

Listed Plant Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

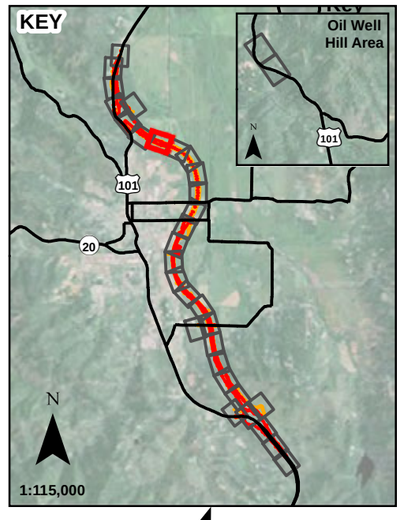
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

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Scale in Feet

Sheet B-53

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

HUFFMAN
108-040-08

CITY
108-040-03

Mill Creek Ditch

Legend

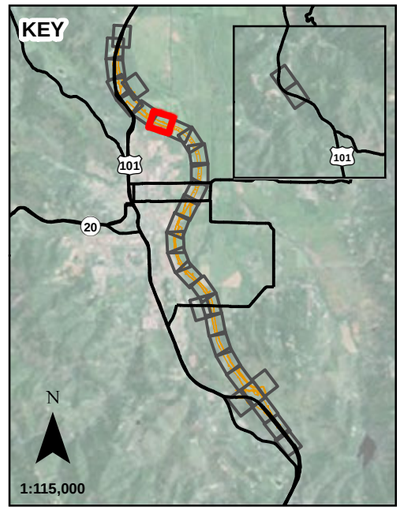
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

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Scale in Feet

Sheet B-54

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

SKYROCK 108-040-18

HUFFMAN 108-040-08

NIESEN 108-040-02

108-040-RW

CITY 108-040-03

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

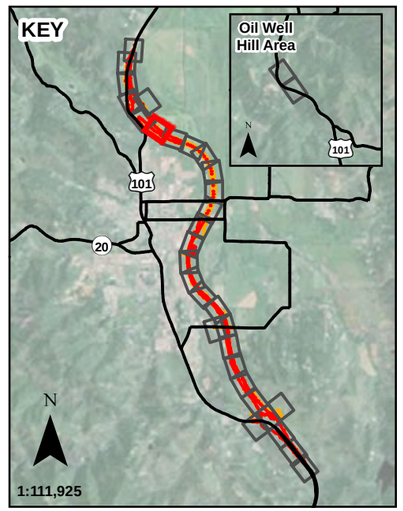
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



N

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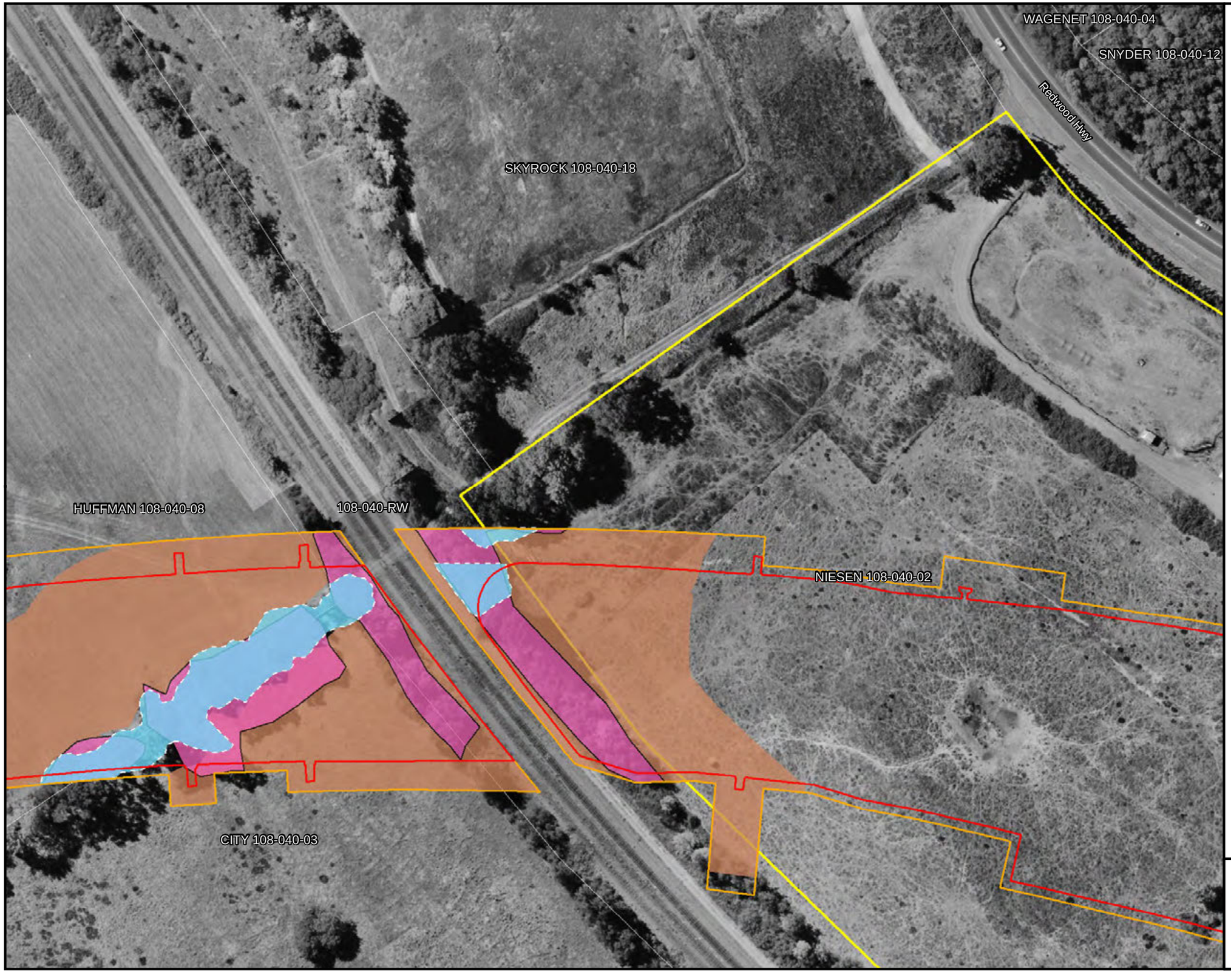
Scale in Feet

Sheet B-55

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps



Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

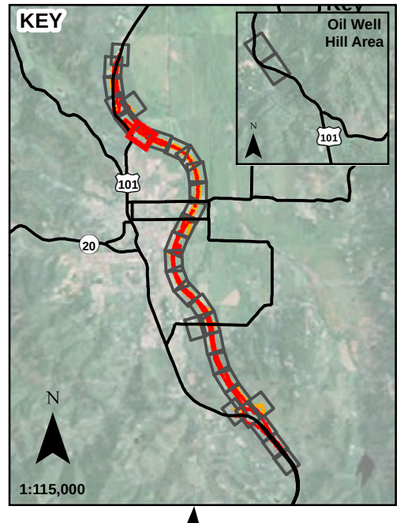
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

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Scale in Feet

Sheet B-56

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

WAGENET
108-040-04

SNYDER
108-040-12

Redwood Hwy

108-040-RW

SKYROCK
108-040-18

108-040-RW

HUFFMAN
108-040-08

NIESEN
108-040-02

CITY
108-040-03

Legend

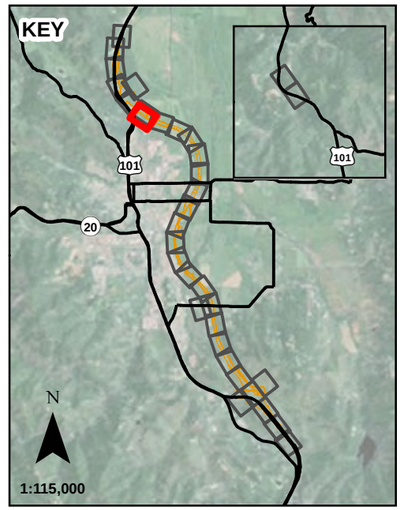
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

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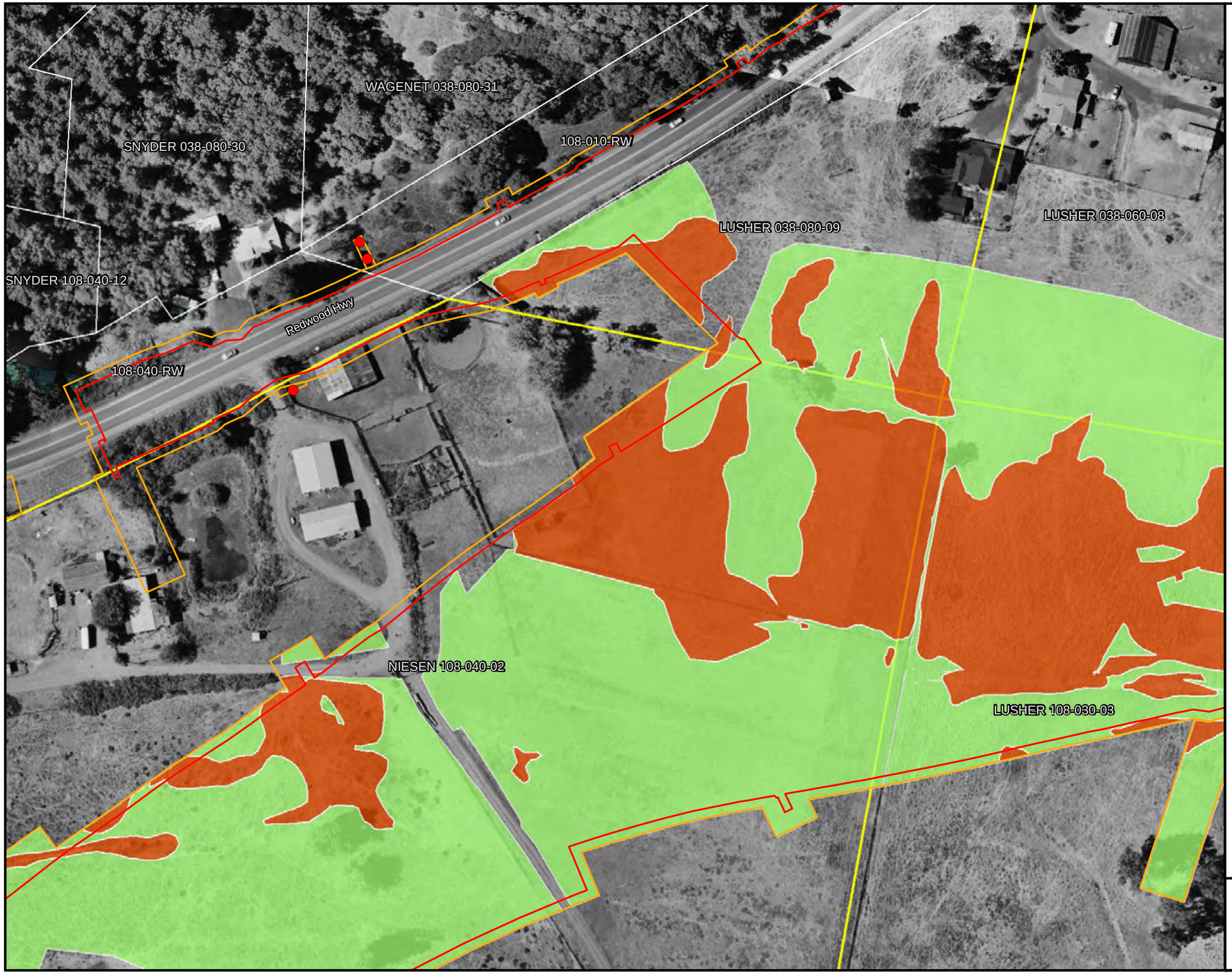
Scale in Feet

Sheet B-57

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps



Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

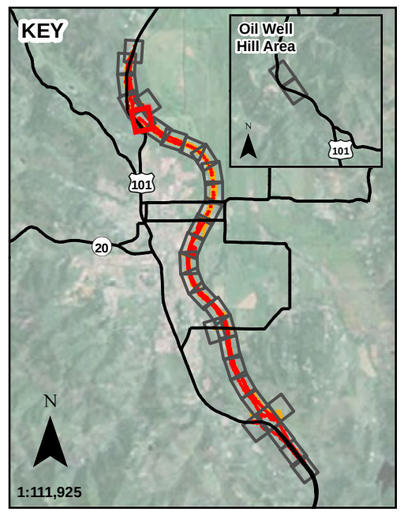
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



N

0 100

Scale in Feet

Sheet B-58

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

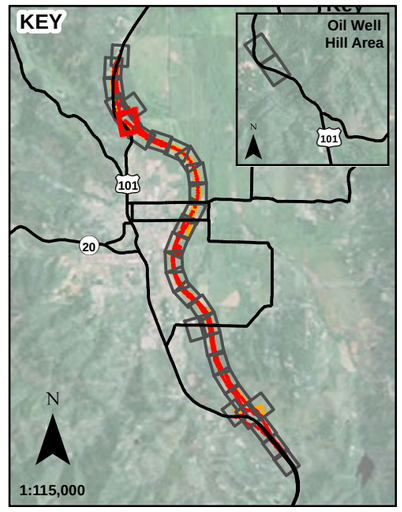
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

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Scale in Feet

Sheet B-59

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

WAGENET
038-080-31

SNYDER
038-080-30

108-010-RW

LUSHER
038-080-09

LUSHER
038-060-08

SNYDER
108-040-12

Redwood
Hwy

108-040-RW

NIESEN
108-040-02

LUSHER
108-030-03

Legend

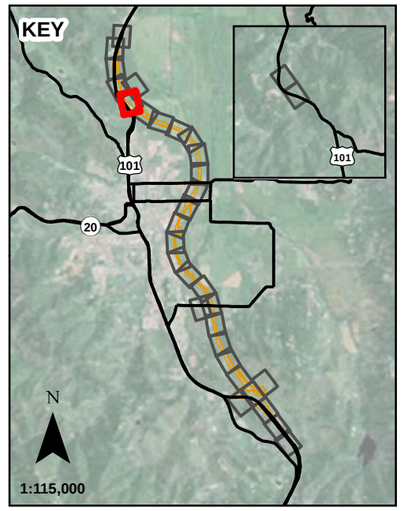
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

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Scale in Feet

Sheet B-60
Waters of the States Impacts
Willits Bypass Project
Sensitive Biological Resources
Impact Maps

NIESEN 108-040-02

LUSHER 038-060-08

Upp Creek

LUSHER 108-030-03

BROOKE 108-030-01

Mill Creek

108-010-RW

LUSHER 108-030-04

FORD 108-030-02

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

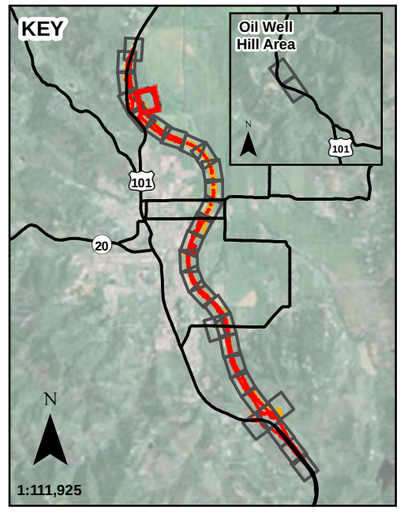
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



N

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Scale in Feet

Sheet B-61

Listed Plant Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

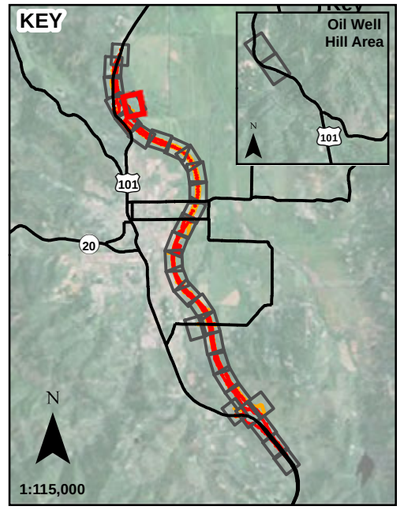
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

0 100

Scale in Feet

Sheet B-62

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

NIESEN
108-040-02

LUSHER
038-060-08

Upp Creek

LUSHER
108-030-03

BROOKE
108-030-01

Mill Creek

108-010-RW

LUSHER
108-030-04

Old Outlet Creek

FORD
108-030-02

Legend

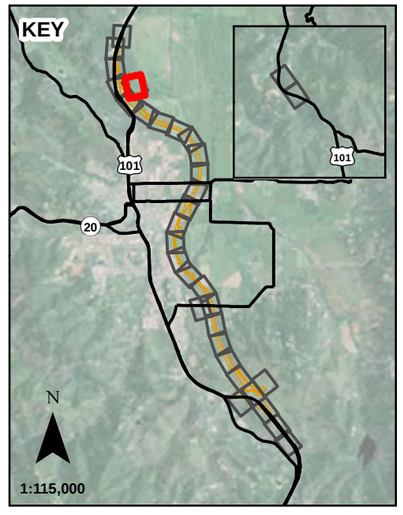
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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

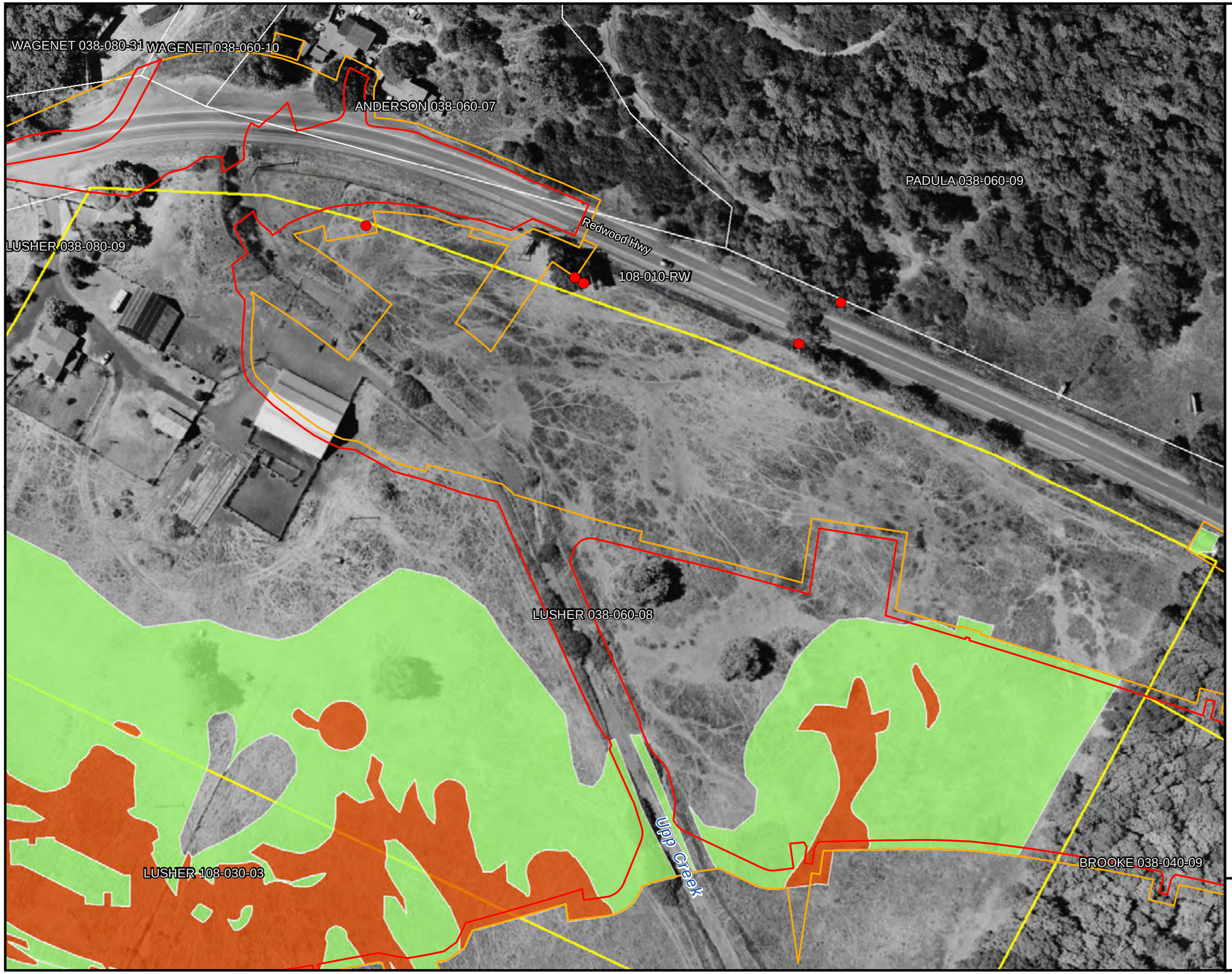


N

0 100

Scale in Feet

Sheet B-63
Waters of the States Impacts
Willits Bypass Project
Sensitive Biological Resources
Impact Maps



Legend

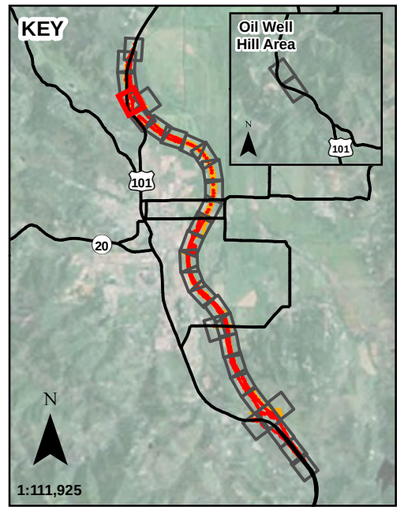
- Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- New Power Pole Location
- Parcel

Listed Plants

- North Coast Semaphore Grass Observed
  -Source: ICF 2010
- Baker's Meadowfoam Observed
  Source:
  -URS 2006
  -Caltrans 2007
  -Caltrans 2007, URS 2009
  -ICF J&S 2009
  -ICF J&S 2009, Caltrans 2007
  -ICF J&S 2009, URS 2009
  -ICF J&S 2009, URS 2009, Caltrans 2007
  -URS 2009
  -ICF 2011
- Baker's Meadowfoam Potential Habitat



N

0 100

Scale in Feet

Sheet B-64

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps

WAGENET 038-080-31
WAGENET 038-060-10
ANDERSON 038-060-07
PADULA 038-060-09
LUSHER 038-080-09
Redwood Hwy
108-010-RW
LUSHER 038-060-08
Upp Creek
LUSHER 108-030-03
BROOKE 038-040-09

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

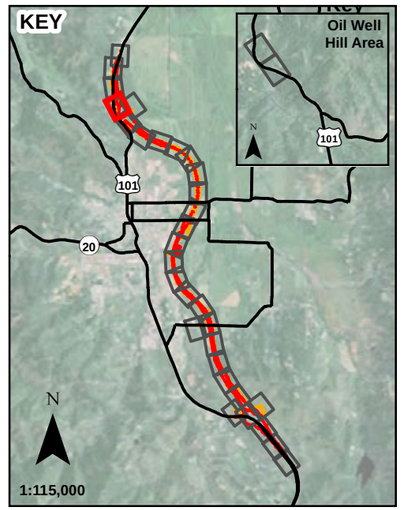
Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland

KEY



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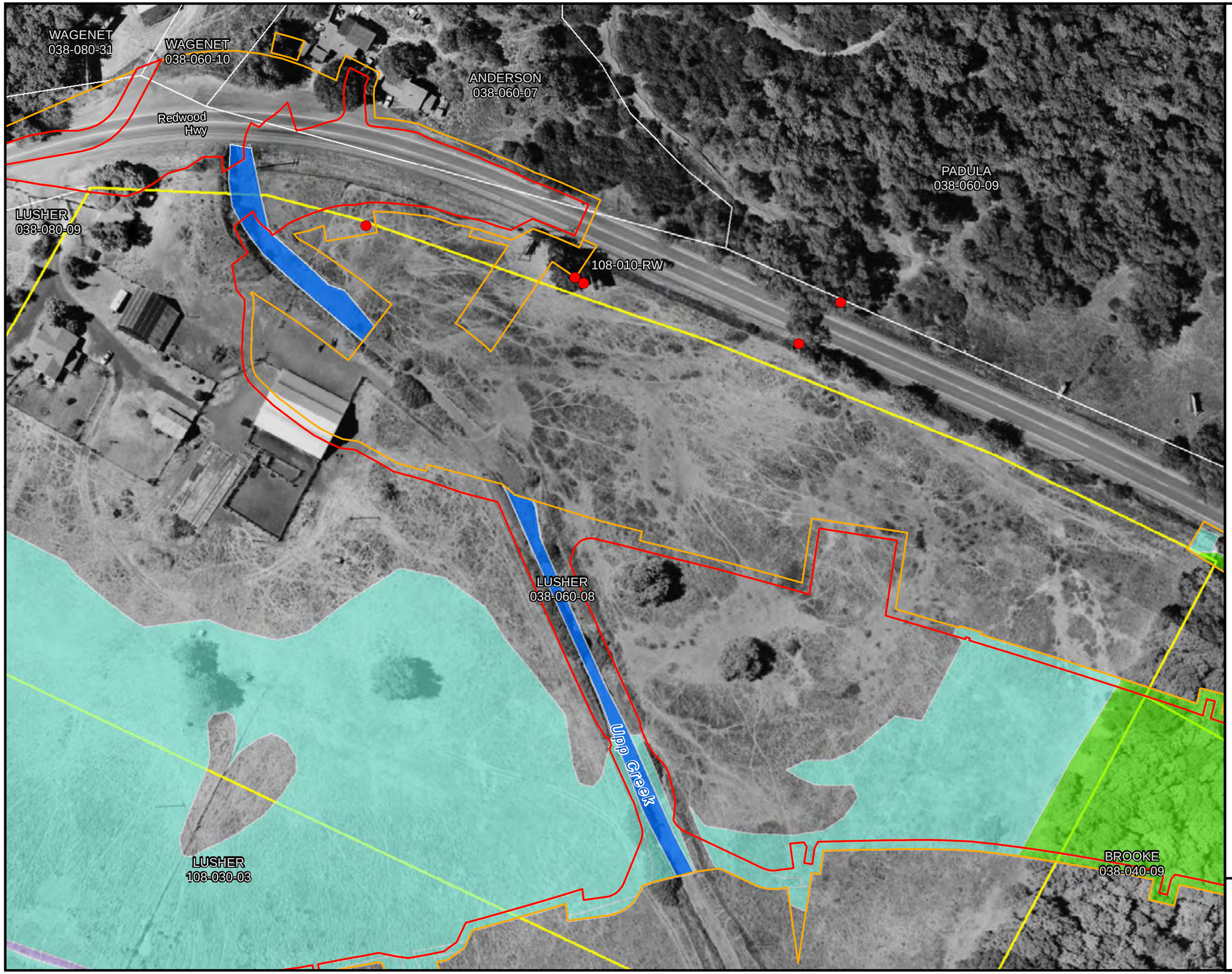
Scale in Feet

Sheet B-65

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps



Legend

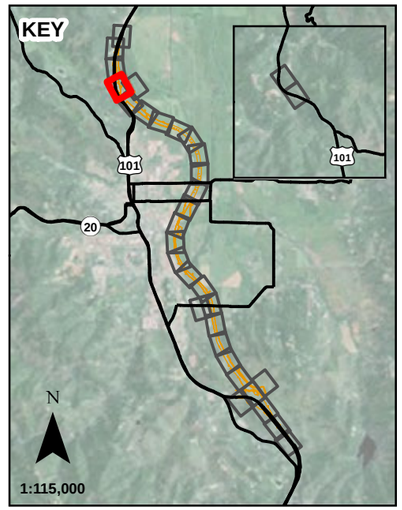
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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0 100

Scale in Feet

Sheet B-66

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

PADULA 038-060-09

KING 038-040-08

LAMB 038-040-05

PELLEGRI 038-040-07

Redwood Hwy

108-010-RW

LUSHER 038-060-08

BROOKE 038-040-09

Legend

Mitigation Parcel

Willits Bypass Footprint

Permanent Impact Boundary

Temporary Impact Boundary

New Power Pole Location

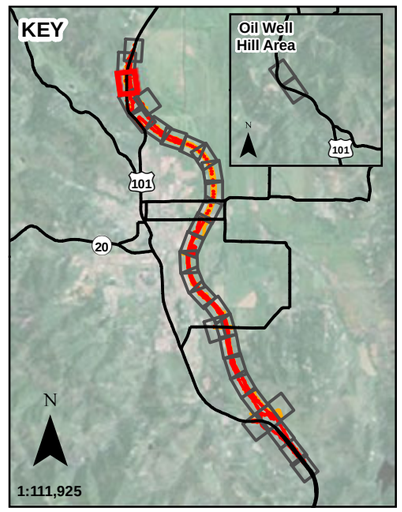
Parcel

Listed Plants

North Coast Semaphore Grass Observed
-Source: ICF 2010

Baker's Meadowfoam Observed
Source:
-URS 2006
-Caltrans 2007
-Caltrans 2007, URS 2009
-ICF J&S 2009
-ICF J&S 2009, Caltrans 2007
-ICF J&S 2009, URS 2009
-ICF J&S 2009, URS 2009, Caltrans 2007
-URS 2009
-ICF 2011

Baker's Meadowfoam Potential Habitat



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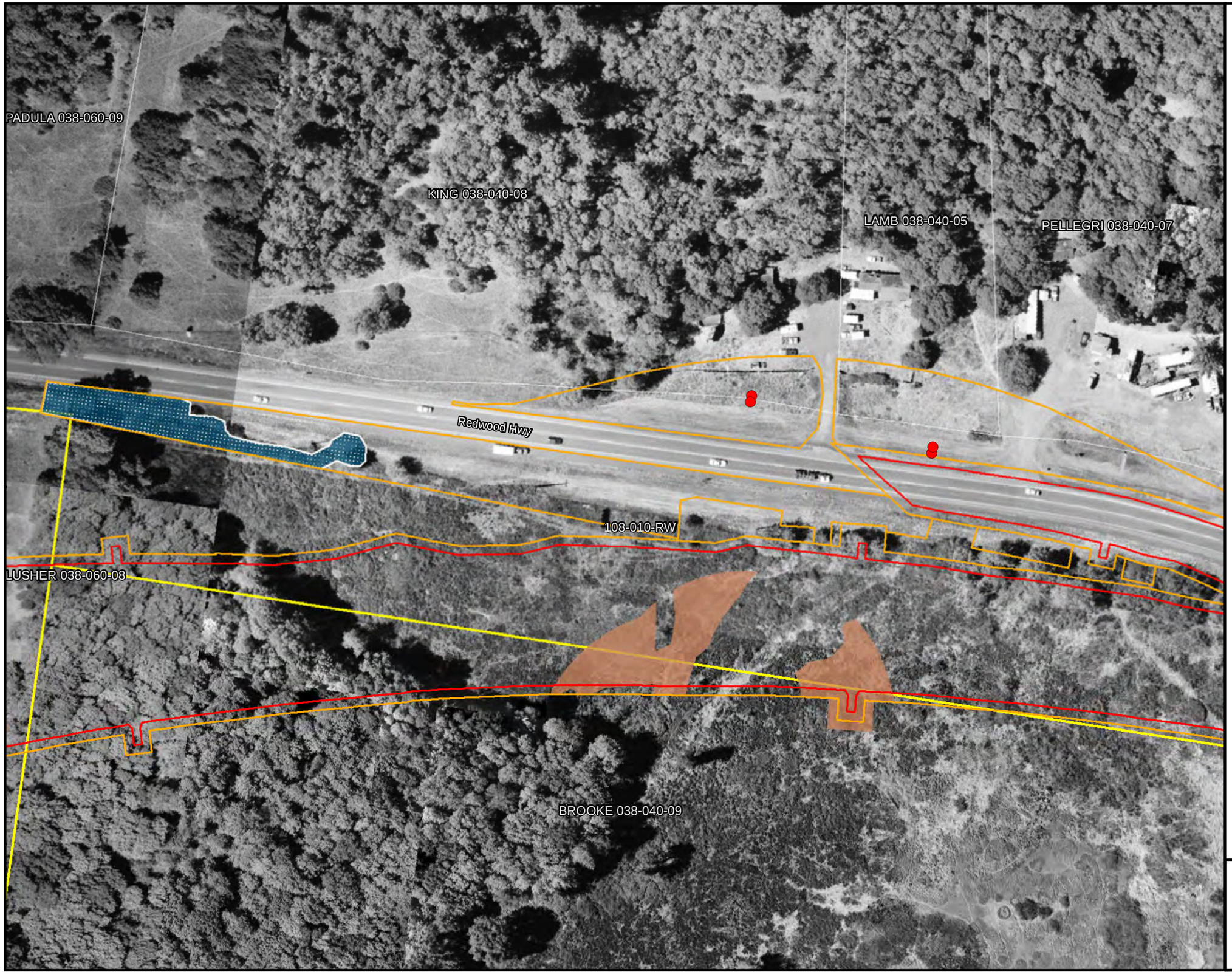
Scale in Feet

Sheet B-67

Listed Plant Impacts

Willits Bypass Project

Sensitive Biological Resource Impact Maps



Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

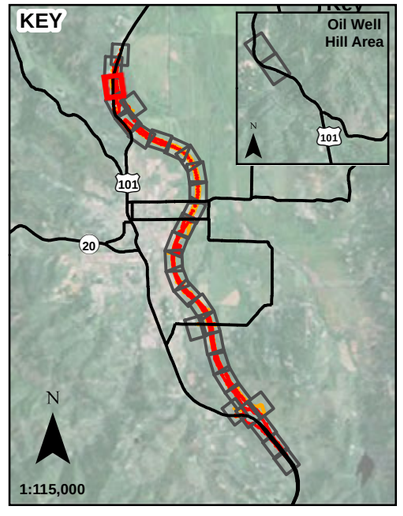
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

0 100

Scale in Feet

Sheet B-68

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

PADULA
038-060-09

KING
038-040-08

LAMB
038-040-05

PELLEGRI
038-040-07

Redwood Hwy

LUSHER
038-060-08

108-010-RW

BROOKE
038-040-09

Legend

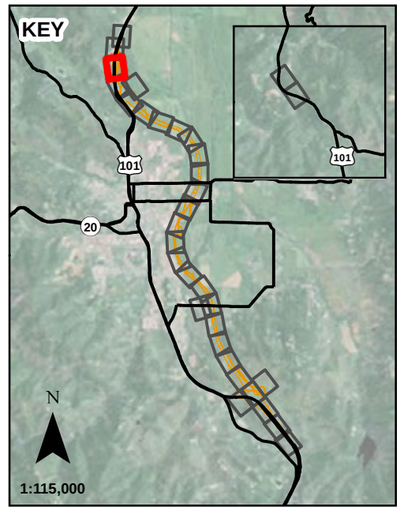
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

0 100

Scale in Feet

Sheet B-69

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

SHRABEL 038-020-46

PELLEGRI 038-040-07

BURTON 038-020-09

Redwood Hwy

103-010-RW

GARMAN 038-020-21

BROOKE 038-040-09

BROOKE 038-020-11

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

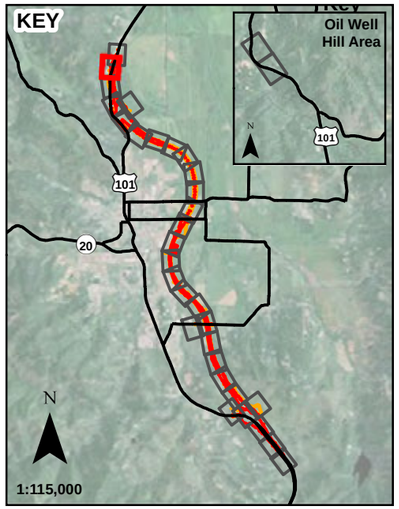
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

0 100

Scale in Feet

Sheet B-70

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

Legend

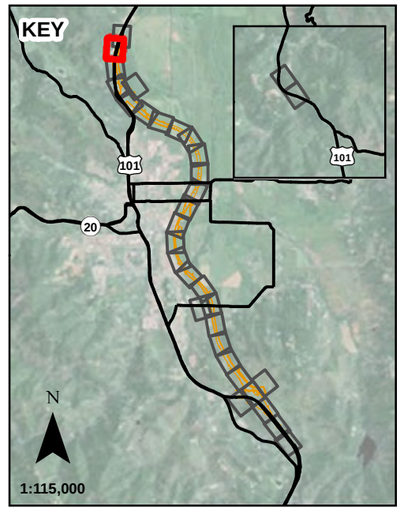
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



N

0 100

Scale in Feet

Sheet B-71

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

BURTON 038-020-09

GARMAN 038-020-21

Redwood Hwy

BROOKE 038-020-11

BROOKE 108-020-03

Mill Creek

108-010-RW

Old Outlet Creek

FORD 108-020-04

Legend

Mitigation Parcel

Willits Bypass Footprint

- Permanent Impact Boundary
- Temporary Impact Boundary
- Parcel
- New Power Pole Location

Riparian Corridor

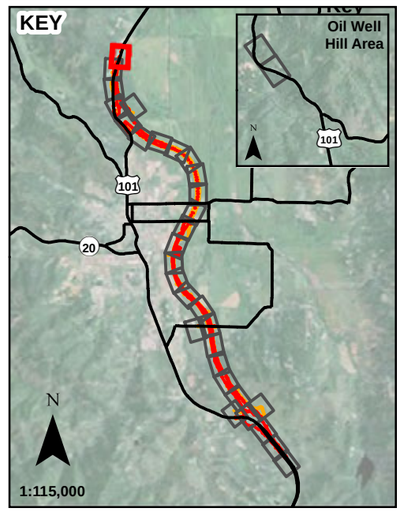
- Catagory I - Riparian Corridor
- Catagory II - Riparian Corridor
- Catagory III - Riparian Corridor

Oak Woodlands

- Black Oak
- Oregon White Oak
- Valley Oak

Oakland Woodland Grassland

- Lowland
- Upland



N

0 100

Scale in Feet

Sheet B-72

Riparian and Oak Woodland Impacts

Willits Bypass Project
Sensitive Biological Resource Impact Maps

BURTON
038-020-09

GARMAN
038-020-21

Redwood Hwy

108-010-RW

BROOKE
038-020-11

BROOKE
108-020-03

Mill Creek

Old Outlet Creek

FORD
108-020-04

Legend

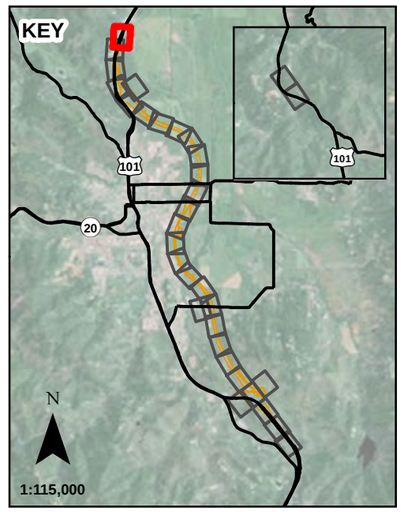
- Offsite Mitigation Parcel
- Parcel

Willits Bypass Footprint

- Permanant Impact Boundary
- Temporary Impact Area
- New Power Pole Location

Waters of the State

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



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Scale in Feet

Sheet B-73

Waters of the States Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps