Biological Resources Assessment

Appendix F, Figure 6 - Impacts by Habitat

		Area (acre)		
Layer	**Subset**	**Tulare - Permanent**	**Kern - Permanent**	**Permanent Impacts**
Project Area	*N/A*	481.68	*46.67*	*528.35*
Habitat	N/A	481.68	*46.67*	*528.35*
	Agriculture - Fallow (af)	14.78	*0.00*	*14.78*
	Agriculture - Field Crop (afc)	20.30	*0.00*	*20.30*
	Agriculture - Orchard (ao)	123.64	*0.00*	*123.64*
	Agriculture - Vineyard (av)	50.54	*0.01*	*50.55*
	Allscale Scrub (as)	1.39	*0.00*	*1.39*
	Barren/Ruderal (br)	0.00	*0.00*	*0.00*
	California Buckwheat Scrub (cbs)	7.02	*0.00*	*7.02*
	Fremont Cottonwood Forest (fcf)	0.90	*0.00*	*0.90*
	Mulefat Thickets (mt)	1.01	*0.00*	*1.01*
	Non-Native Annual Grassland (nag)	0.00	*0.00*	*0.00*
	Red Willow Thickets (rwt)	0.00	*0.00*	*0.00*
	Shining Willow Groves (swg)	0.58	*0.00*	*0.58*
	Smartweed - Cocklebur Patches (scp)	0.00	*0.00*	*0.00*
	Urban (u)	6.27	*0.49*	*6.76*
	Valley Oak Woodland (vow)	0.00	*0.00*	*0.00*
	Water (w)	255.25	*46.17*	*301.42*

		Area (acre)		
Layer	**Subset**	**Tulare - Temporary**	**Kern - Temporary**	**Temporary Impacts**
Project Area	*N/A*	1,298.76	*90.86*	*1,389.62*
Habitat	N/A	1,298.76	*90.86*	*1,389.62*
	Agriculture - Fallow (af)	307.73	*0.00*	*307.73*
	Agriculture - Field Crop (afc)	165.95	*0.00*	*165.95*
	Agriculture - Orchard (ao)	145.32	*0.00*	*145.32*
	Agriculture - Vineyard (av)	15.15	*7.97*	*23.12*
	Allscale Scrub (as)	0.00	*0.00*	*0.00*
	Barren/Ruderal (br)	418.04	*71.42*	*489.46*
	California Buckwheat Scrub (cbs)	0.27	*0.00*	*0.27*
	Fremont Cottonwood Forest (fcf)	0.87	*0.00*	*0.87*
	Mulefat Thickets (mt)	0.47	*0.00*	*0.47*
	Non-Native Annual Grassland (nag)	215.28	*10.48*	*225.76*
	Red Willow Thickets (rwt)	0.00	*0.00*	*0.00*
	Shining Willow Groves (swg)	0.00	*0.00*	*0.00*
	Smartweed - Cocklebur Patches (scp)	0.00	*0.00*	*0.00*
	Urban (u)	26.95	*0.99*	*27.94*
	Valley Oak Woodland (vow)	0.00	*0.00*	*0.00*
	Water (w)	2.73	*0.00*	*2.73*

		Area (acre)		
Layer	**Subset**	**Total Area**	**Tulare**	**Kern**
Project Area	*N/A*	2,317.15	*2,179.62*	*137.53*
Habitat	N/A	2,317.15	*2,179.62*	*137.53*
	Agriculture - Fallow (af)	324.78	*324.78*	*0.00*
	Agriculture - Field Crop (afc)	187.68	*187.68*	*0.00*
	Agriculture - Orchard (ao)	281.40	*281.40*	*0.00*
	Agriculture - Vineyard (av)	86.16	*78.18*	*7.98*
	Allscale Scrub (as)	1.39	*1.39*	*0.00*
	Barren/Ruderal (br)	826.36	*754.94*	*71.42*
	California Buckwheat Scrub (cbs)	7.55	*7.55*	*0.00*
	Fremont Cottonwood Forest (fcf)	1.77	*1.77*	*0.00*
	Mulefat Thickets (mt)	1.48	*1.48*	*0.00*
	Non-Native Annual Grassland (nag)	231.33	*220.85*	*10.48*
	Red Willow Thickets (rwt)	0.13	*0.13*	*0.00*
	Shining Willow Groves (swg)	0.58	*0.58*	*0.00*
	Smartweed - Cocklebur Patches (scp)	0.57	*0.57*	*0.00*
	Urban (u)	52.23	*50.75*	*1.48*
	Valley Oak Woodland (vow)	1.07	*1.07*	*0.00*
	Water (w)	312.67	*266.50*	*46.17*

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Impacts Table - Accompany Mapbook

Figure No. **6: Impacts**

Date: **Mar 04, 2020**

Title

Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP
(2020-03-04)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

Service Layer Credits: ; NAIP 2016

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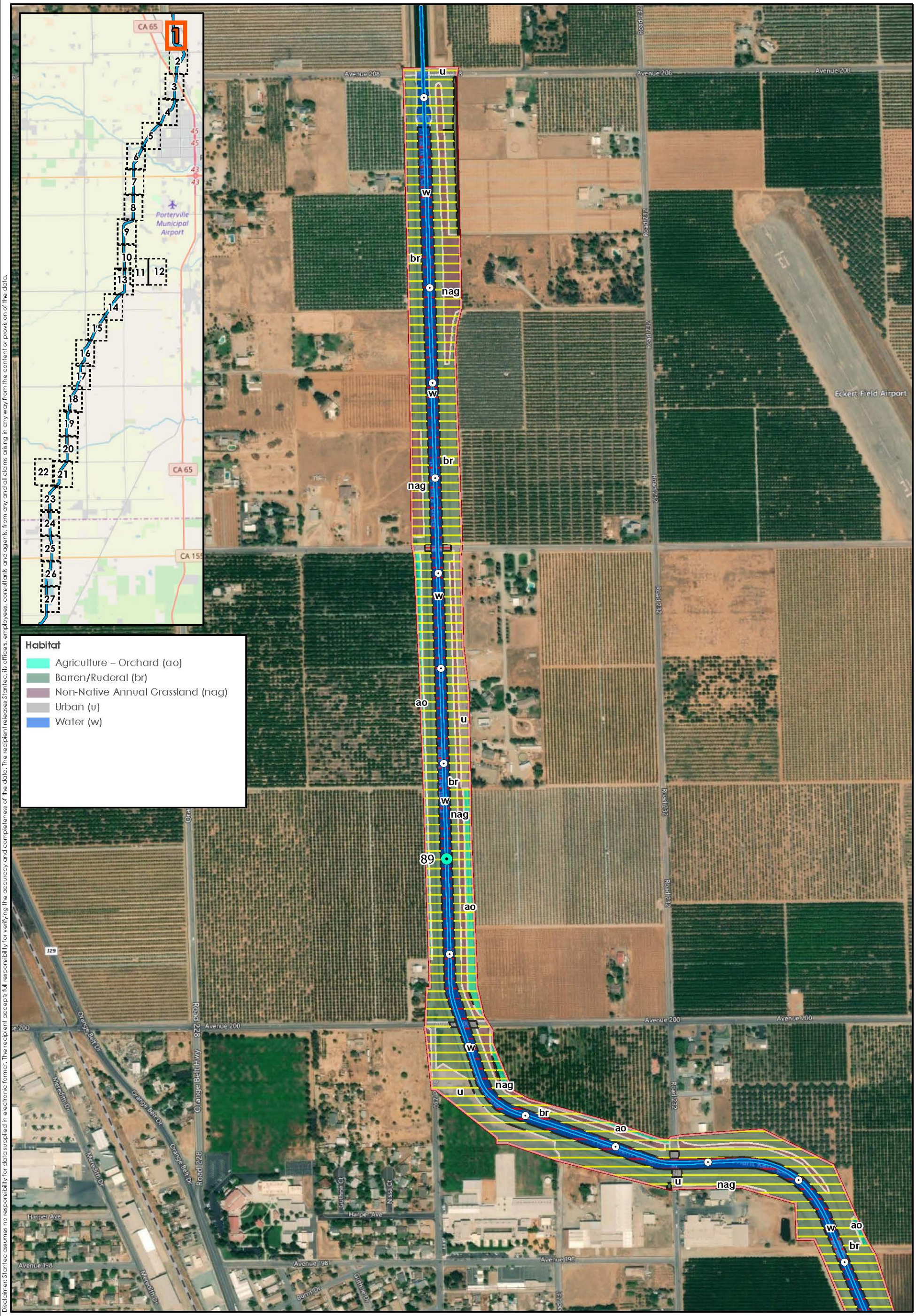

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6A**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP
(2020-03-04)

Friant Water Authority
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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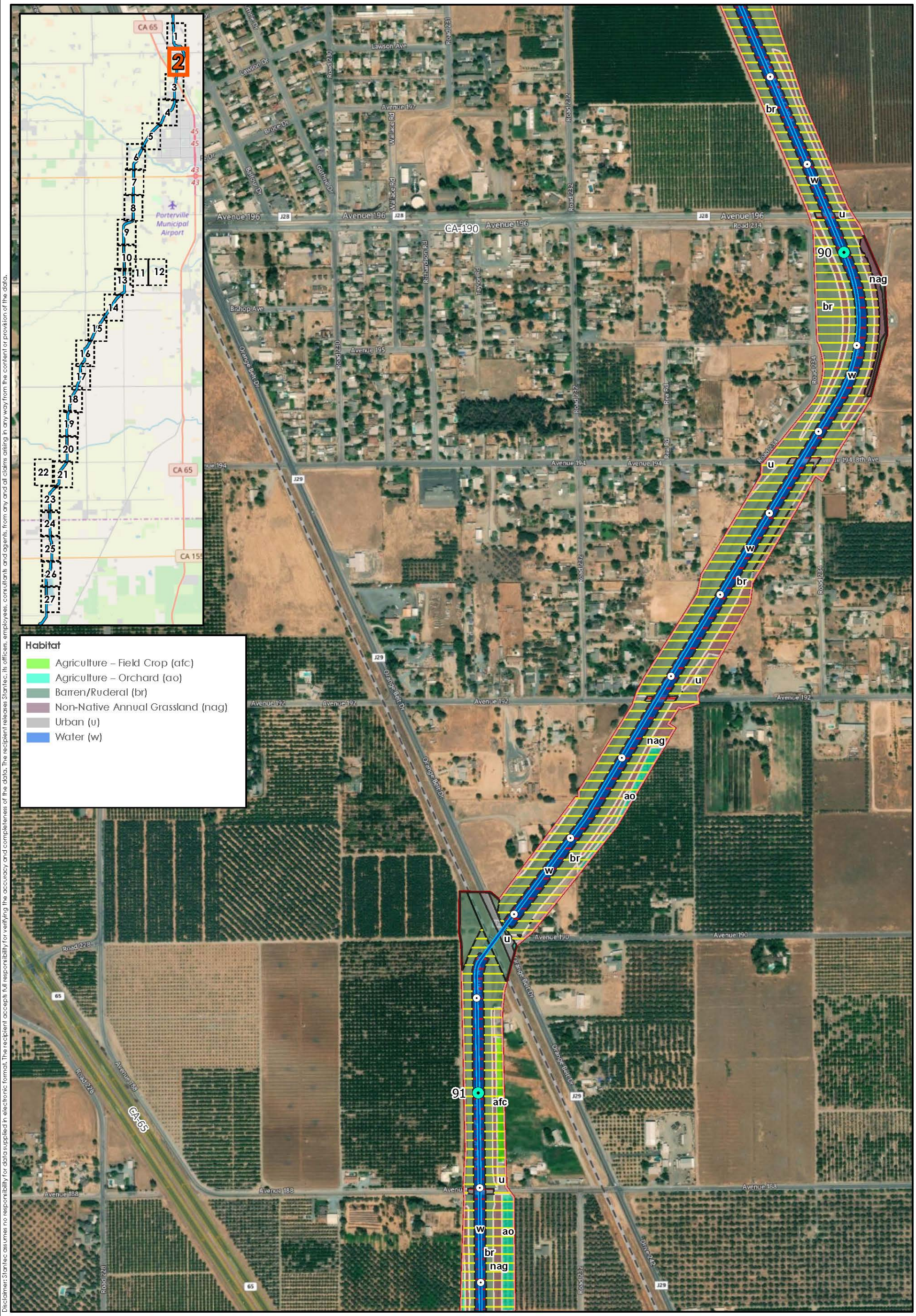

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

- Project Area
- Proposed Canal Enlargement Centerline
- Mile Post
- Tenth-of-Mile

Potential Impacts

- No Impact
- Permanent
- Temporary

Figure No. **6B**

Date: **Mar 04, 2020**

Title **Impacts by Habitat**

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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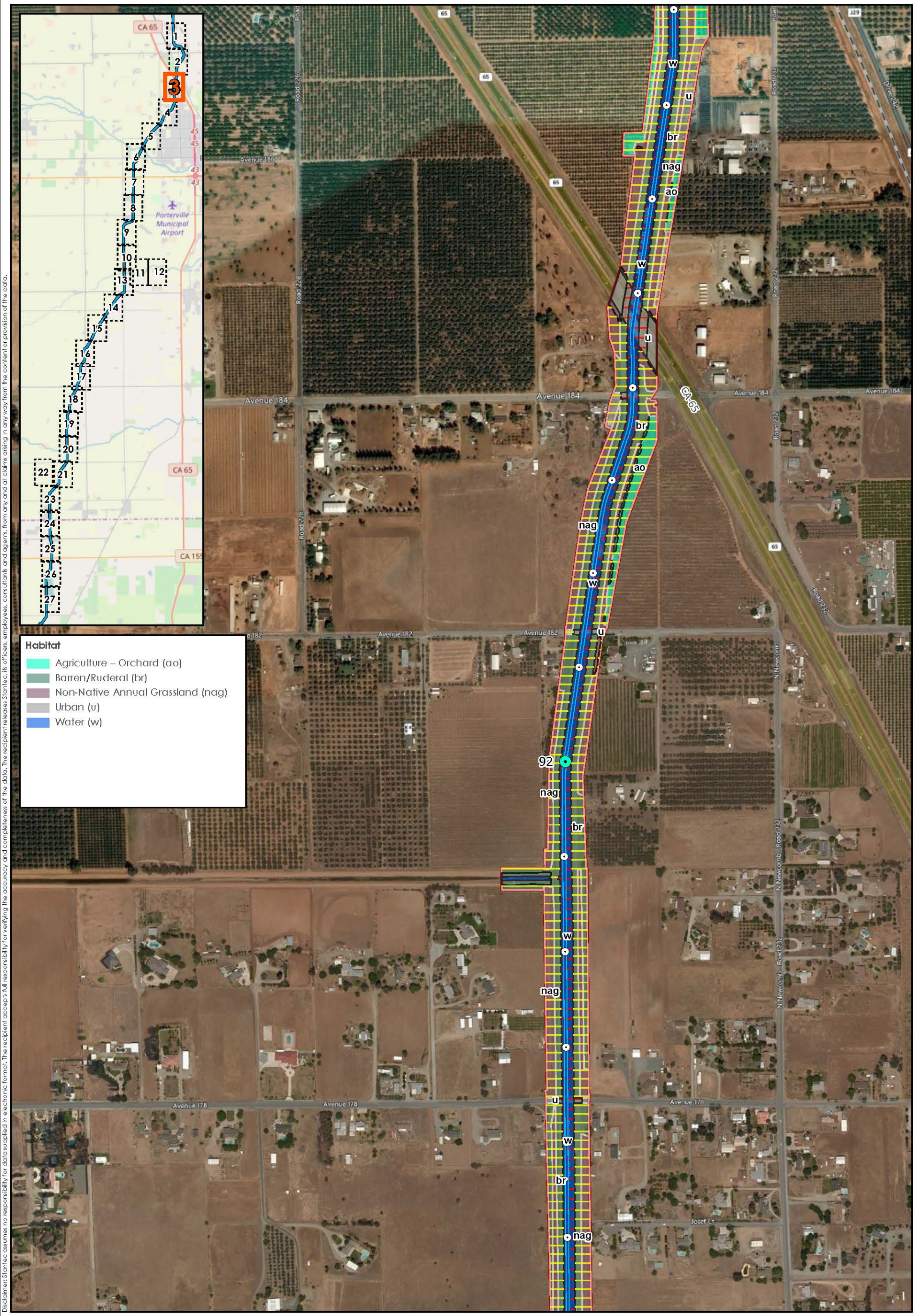

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6C**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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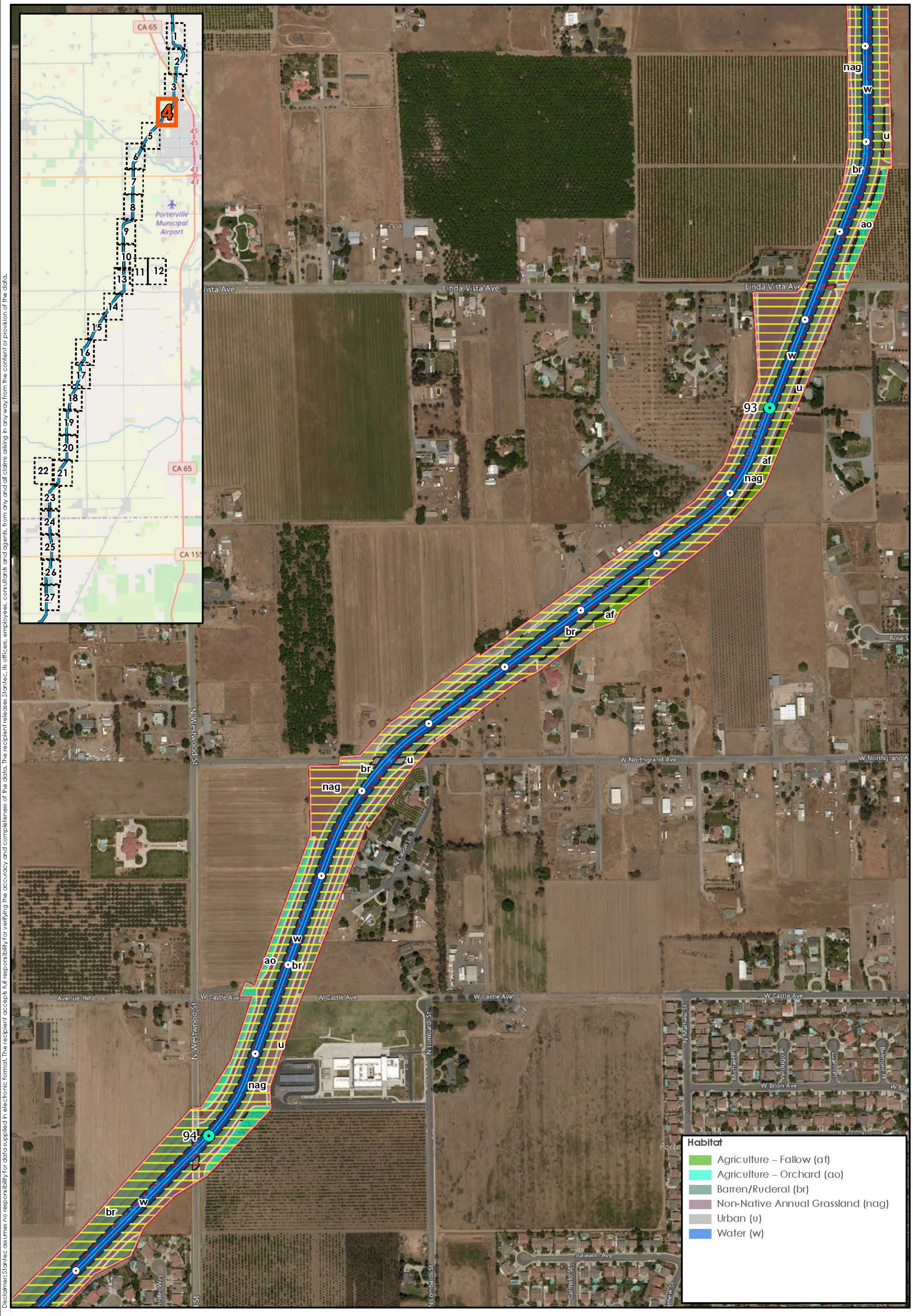

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6D**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP
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Friant Water Authority
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Friant-Kern Canal Middle Reach Capacity Correction Project

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6E**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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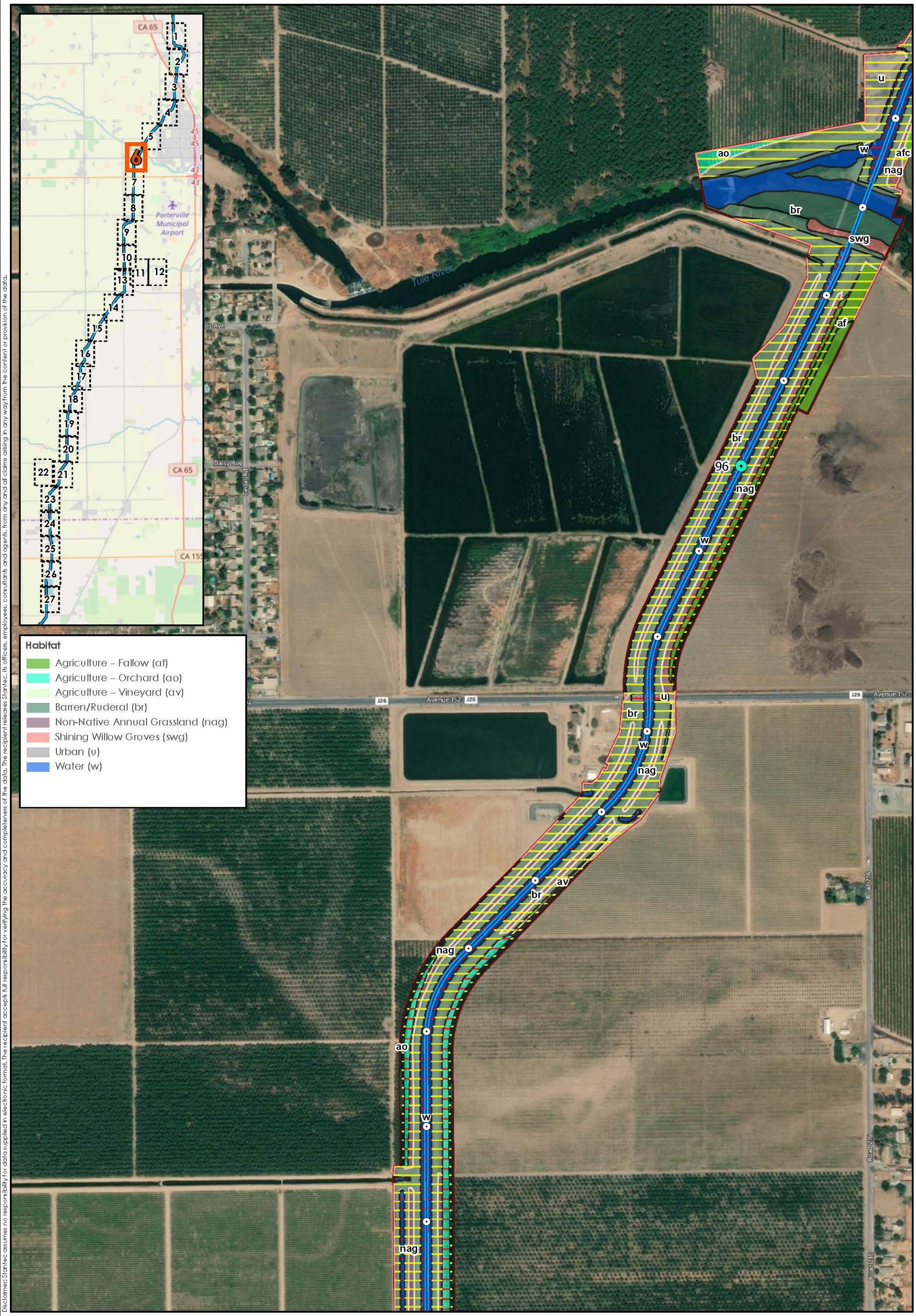

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6F**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant-Kern Canal Middle Reach Capacity Correction Project

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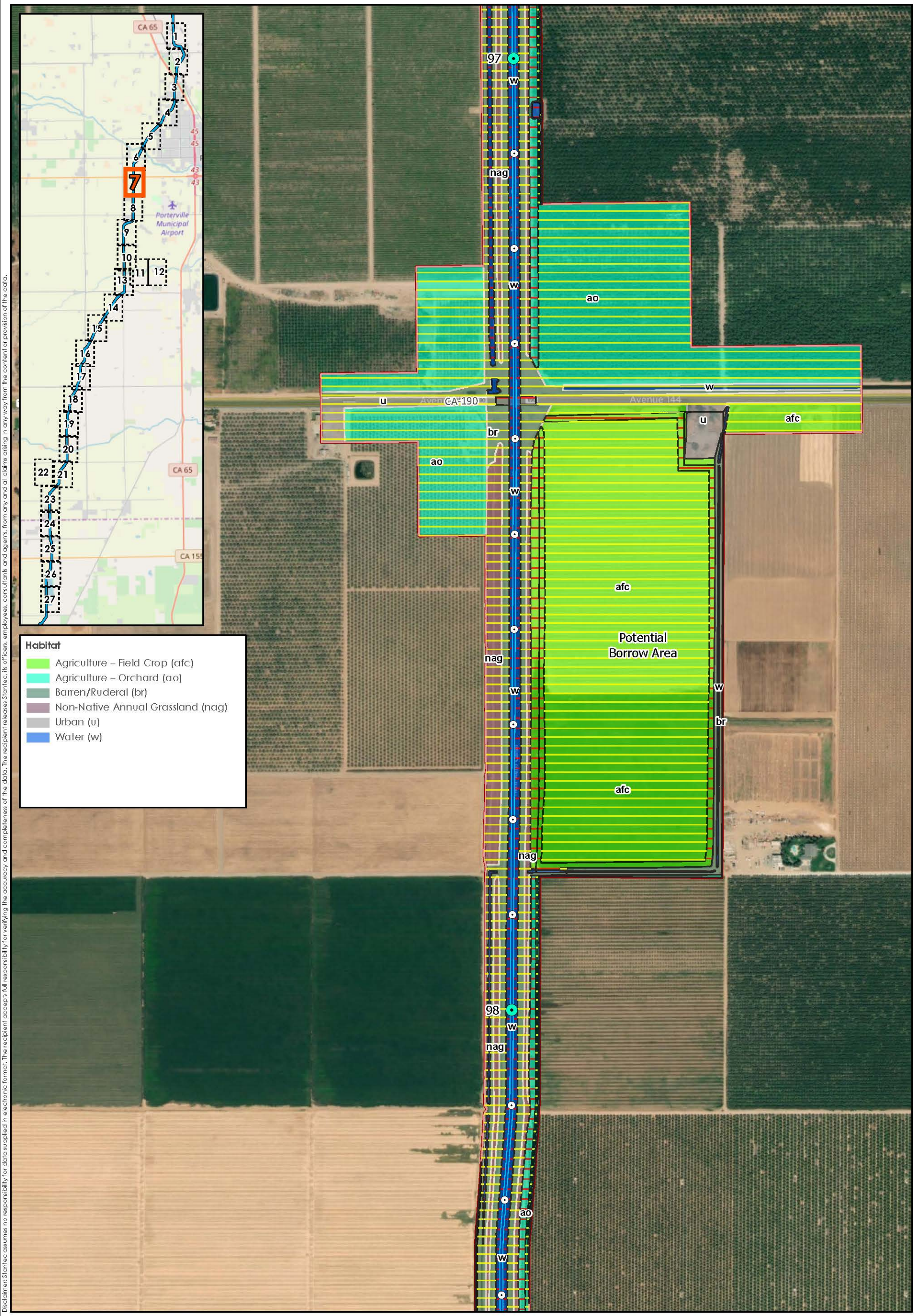

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6G**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
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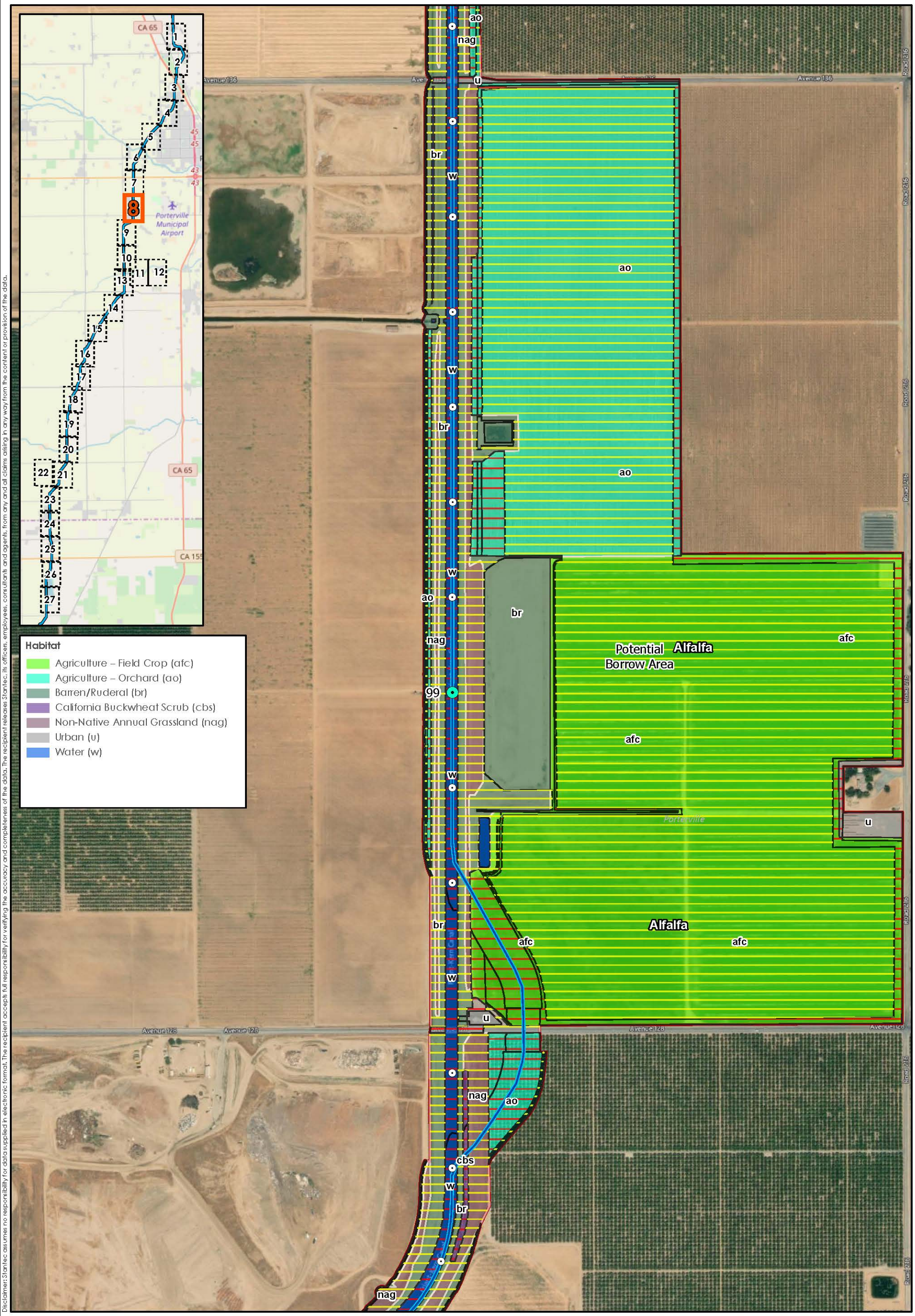

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6H**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
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Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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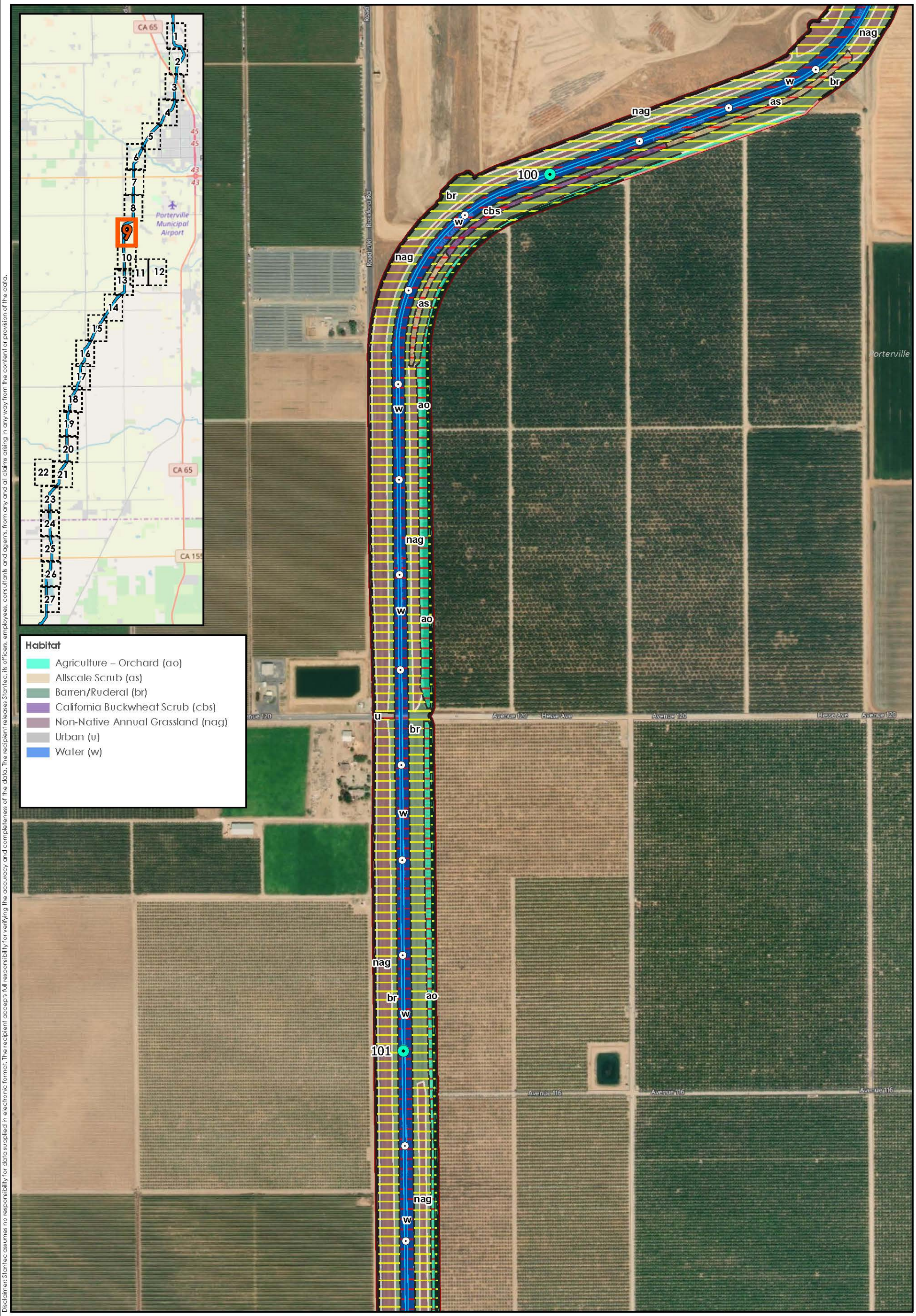

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
Mile Post
Tenth-of-Mile
No Impact
Permanent
Temporary

Figure No. **6I**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
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Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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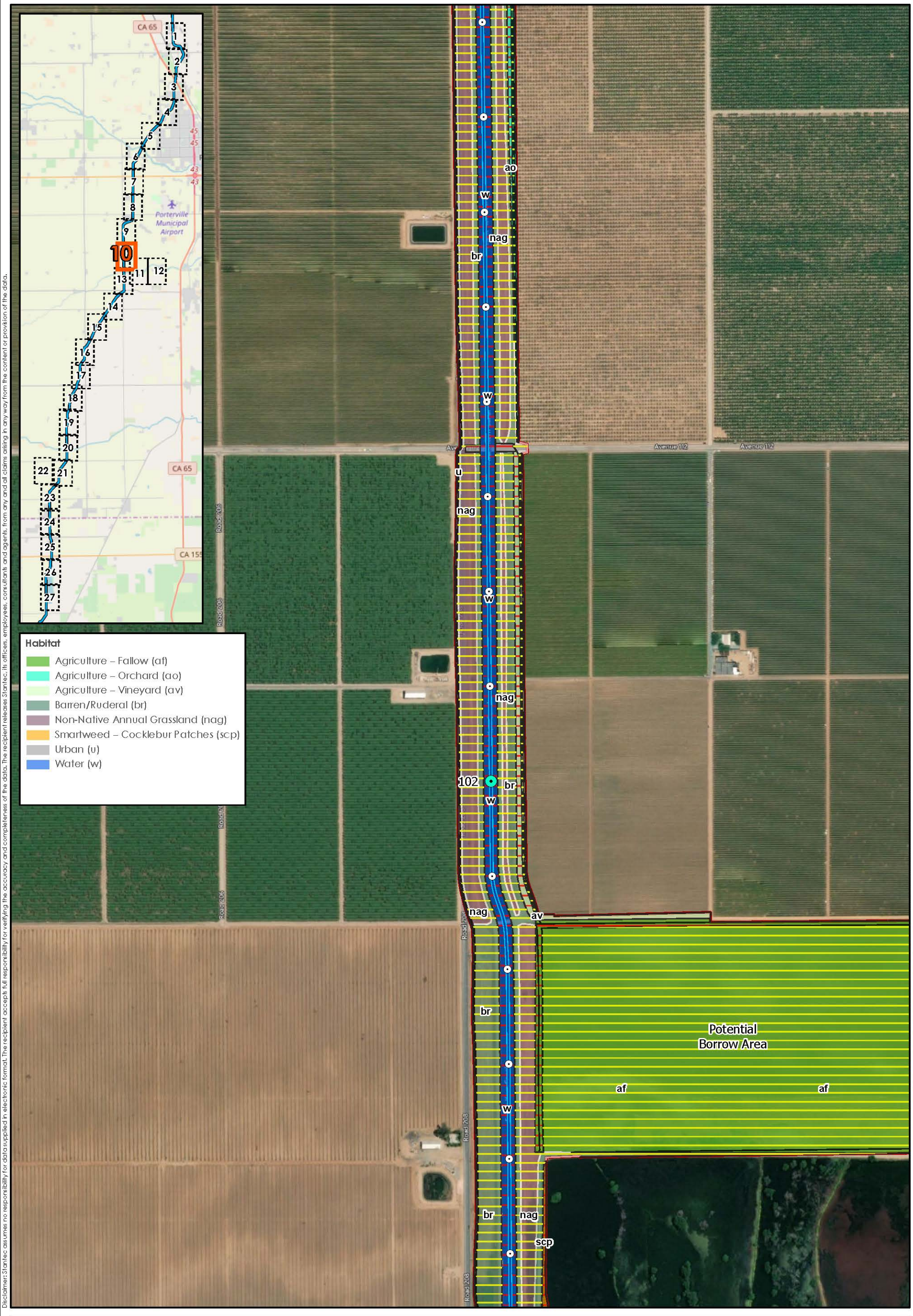

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6J**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
Stantec

N

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Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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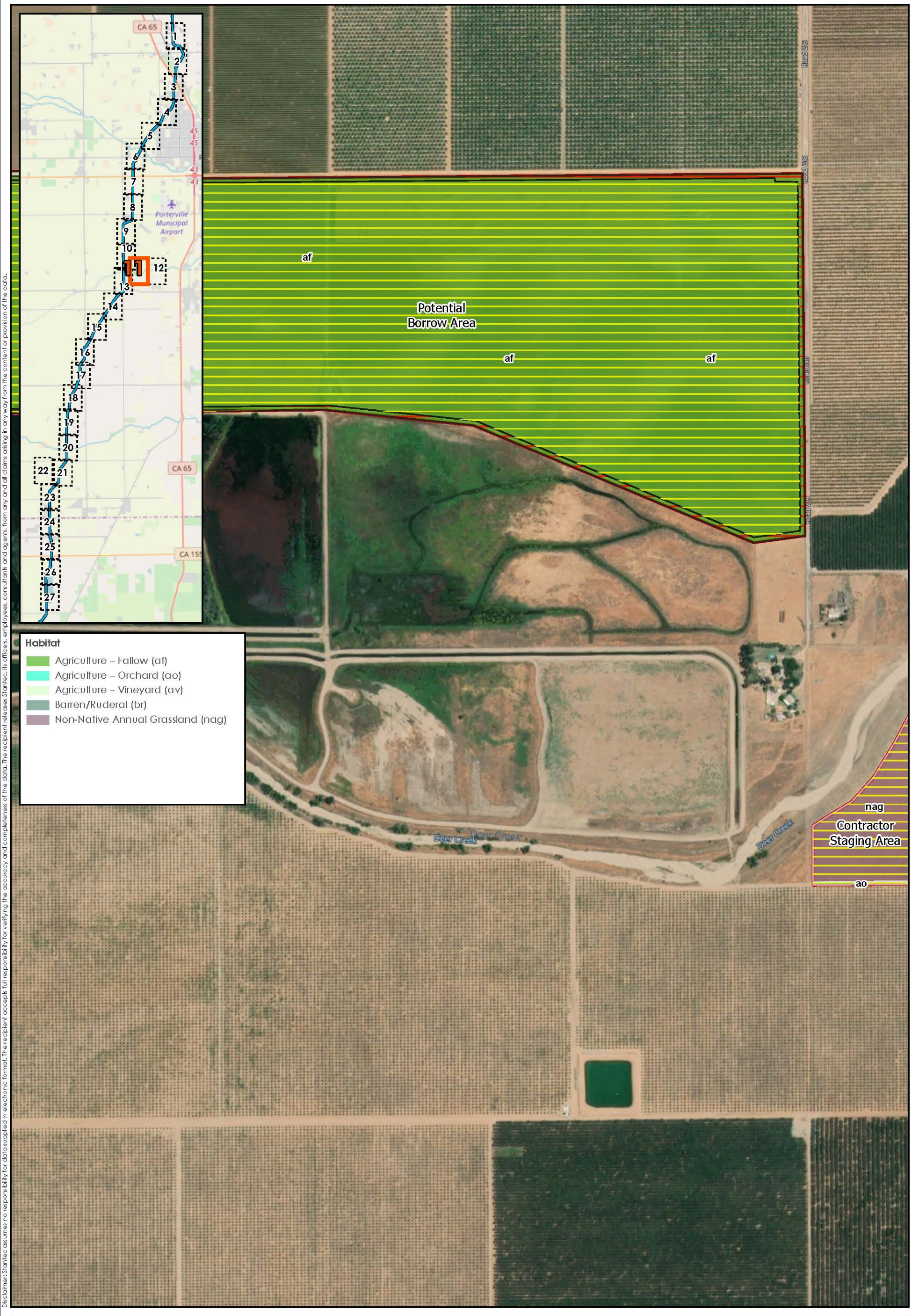
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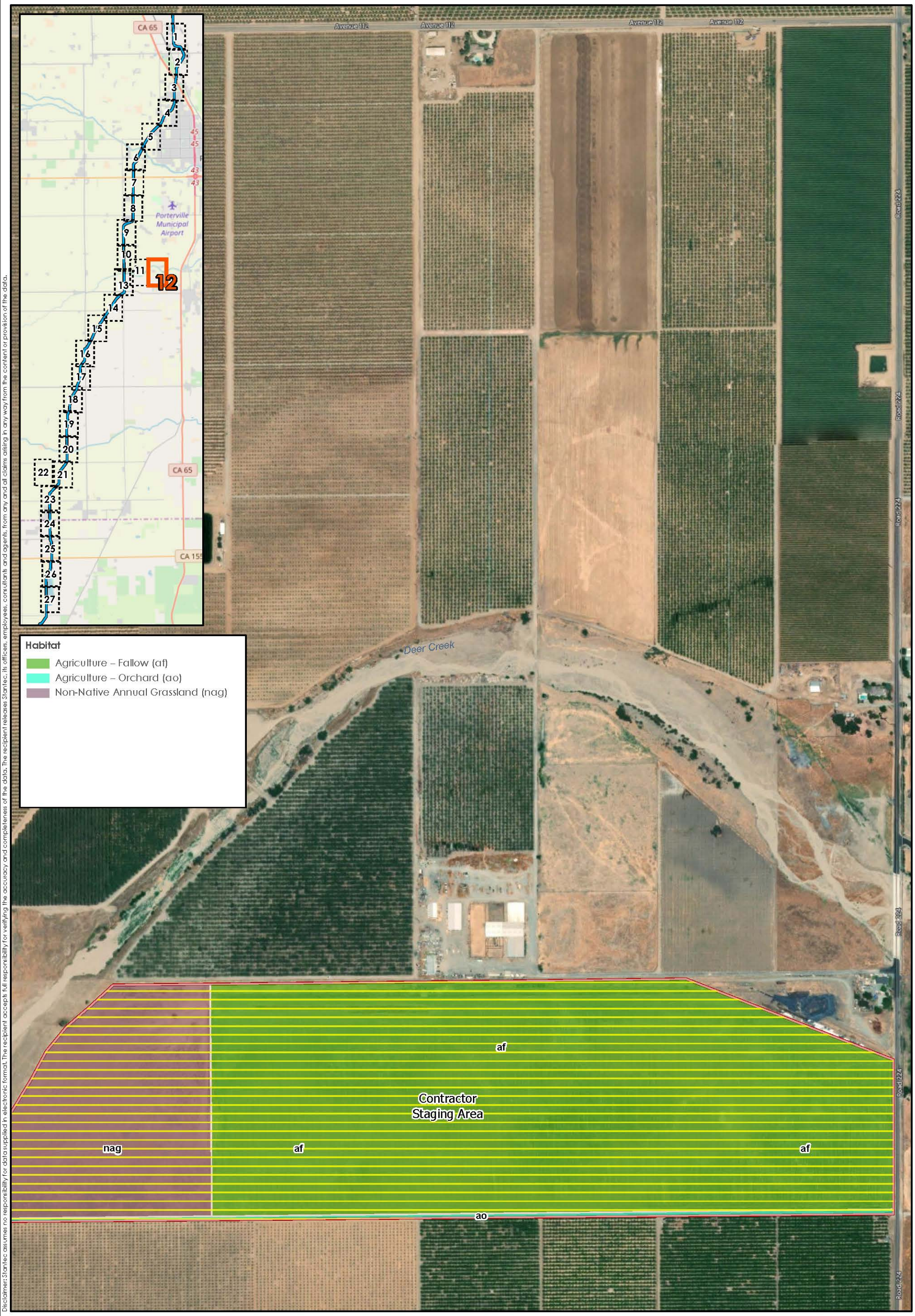
Porterville Municipal Airport
CA 155
Road 216
Road 216
Road 216



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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6L**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP
(2020-03-04)

Friant WATER AUTHORITY
Stantec

N

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1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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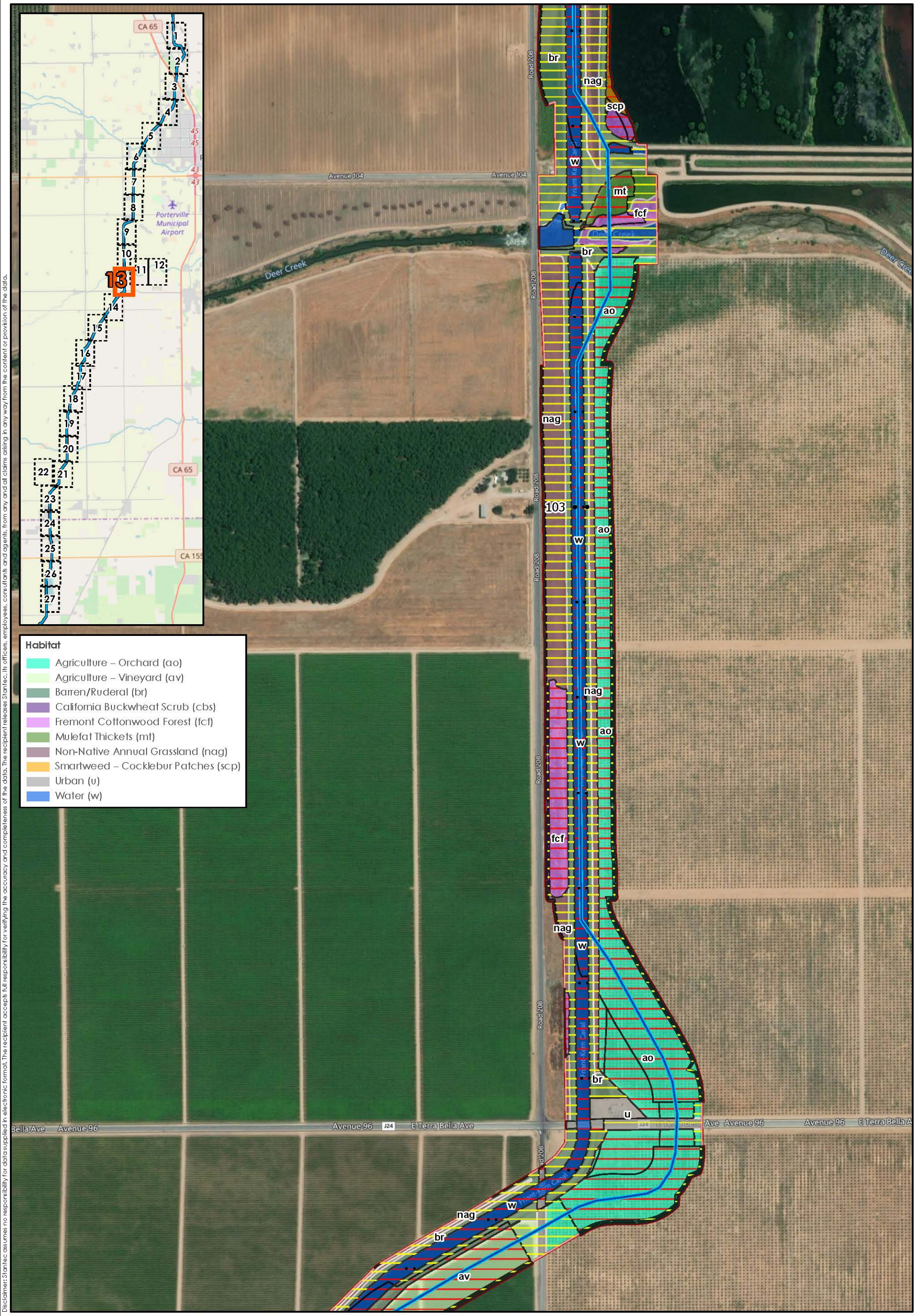

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
- No Impact
- Permanent
- Temporary

• • Mile Post
• • Tenth-of-Mile

Figure No. **6M**

Date: **Mar 18, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant WATER AUTHORITY
Stantec

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

Service Layer Credits: OpenStreetMap: © OpenStreetMap (and) contributors, CC-BY-SA
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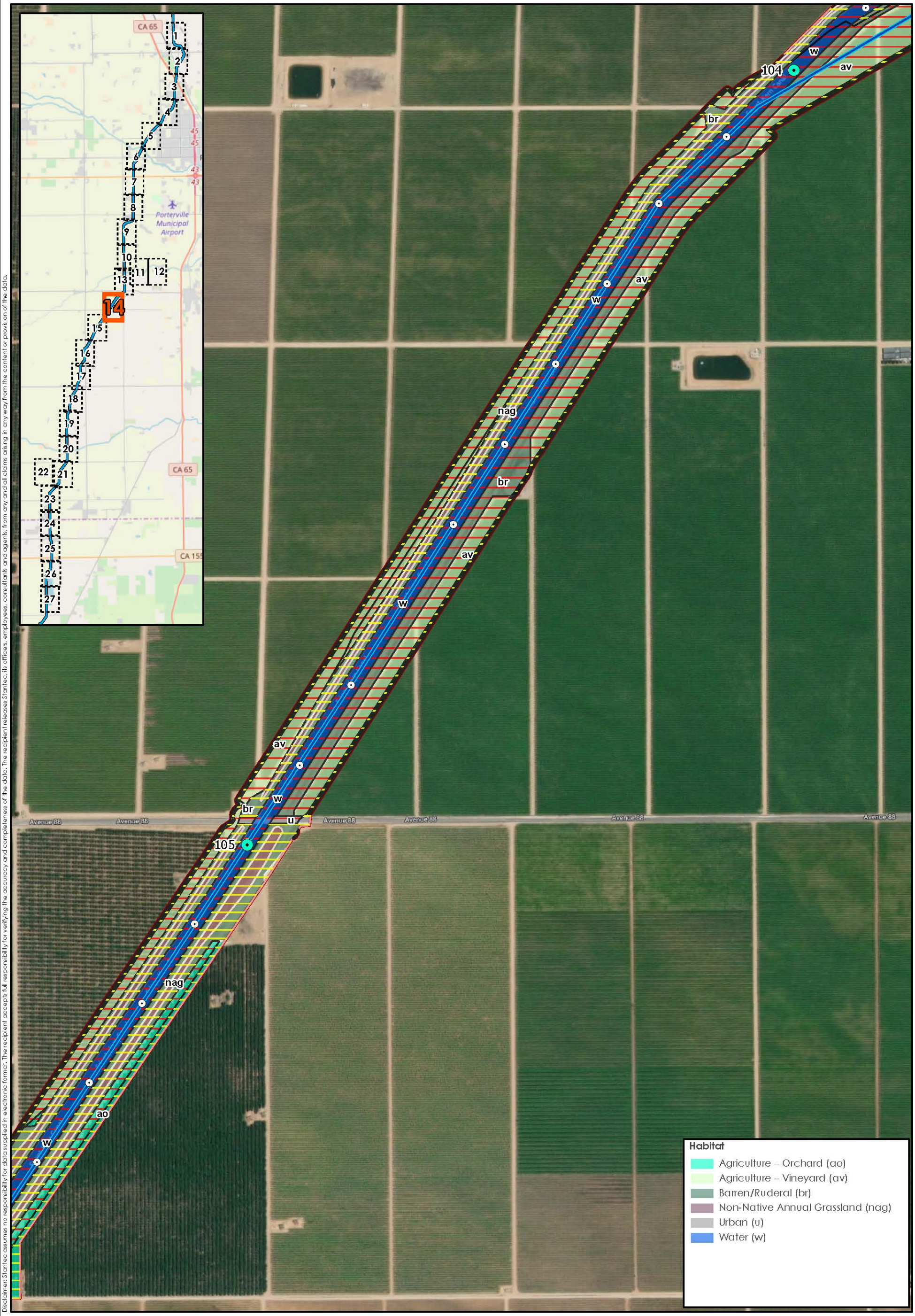

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6N**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant WATER AUTHORITY
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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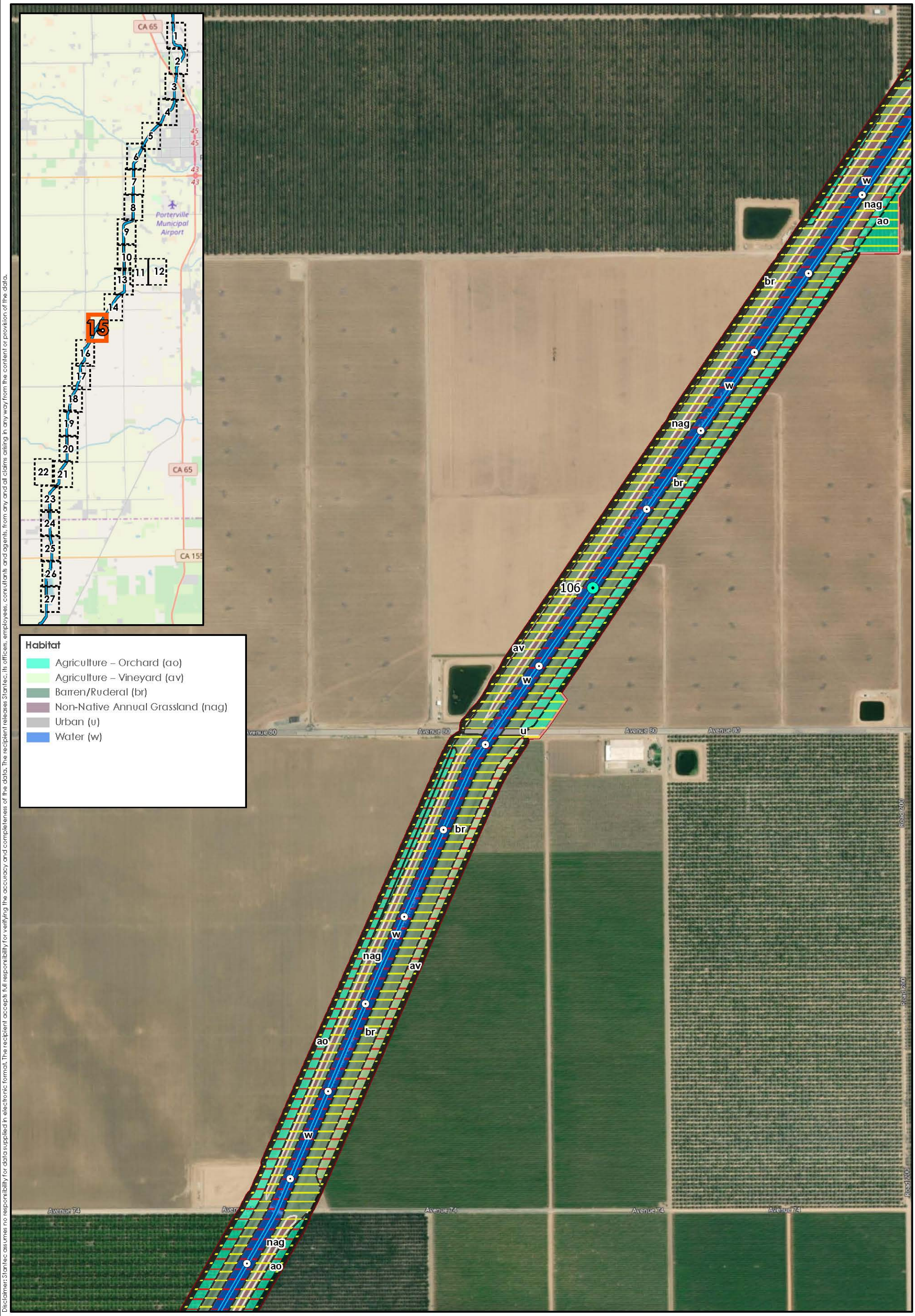

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6O**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP (2020-03-04)

Friant Water Authority
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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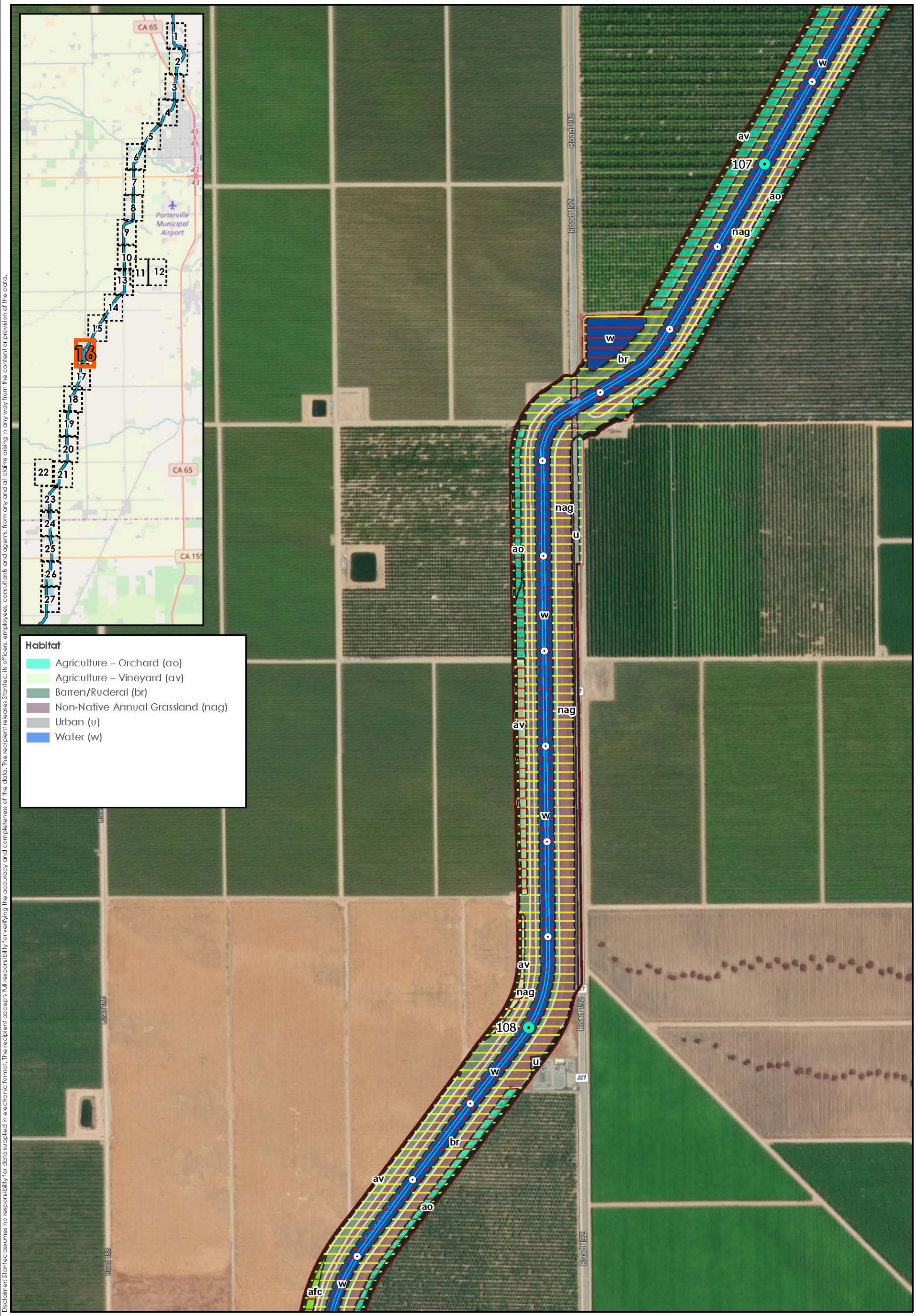

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6P**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
Stantec

N

0 500 1,000 Feet
1: 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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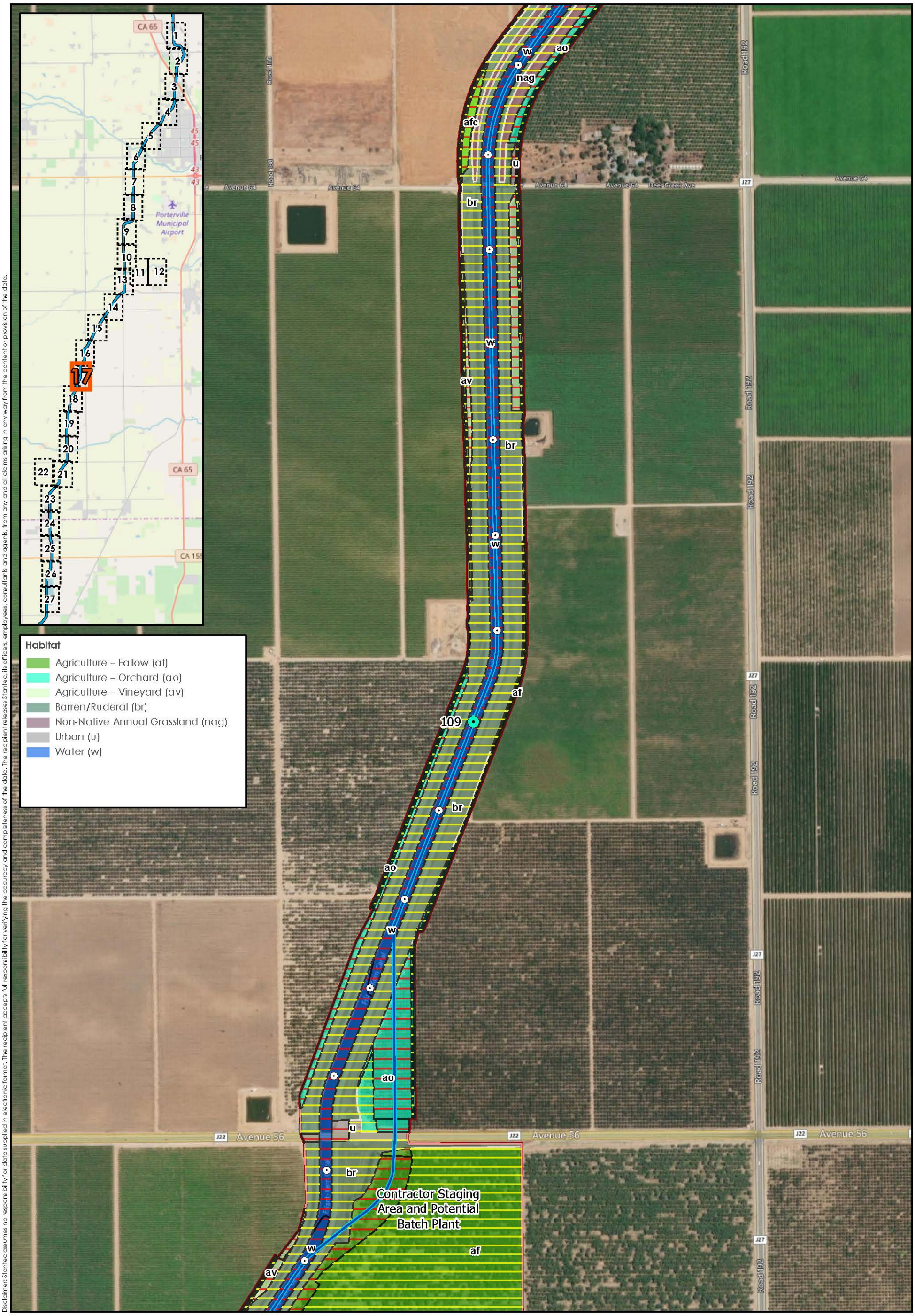

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6Q**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP (2020-03-04)

Friant Water Authority
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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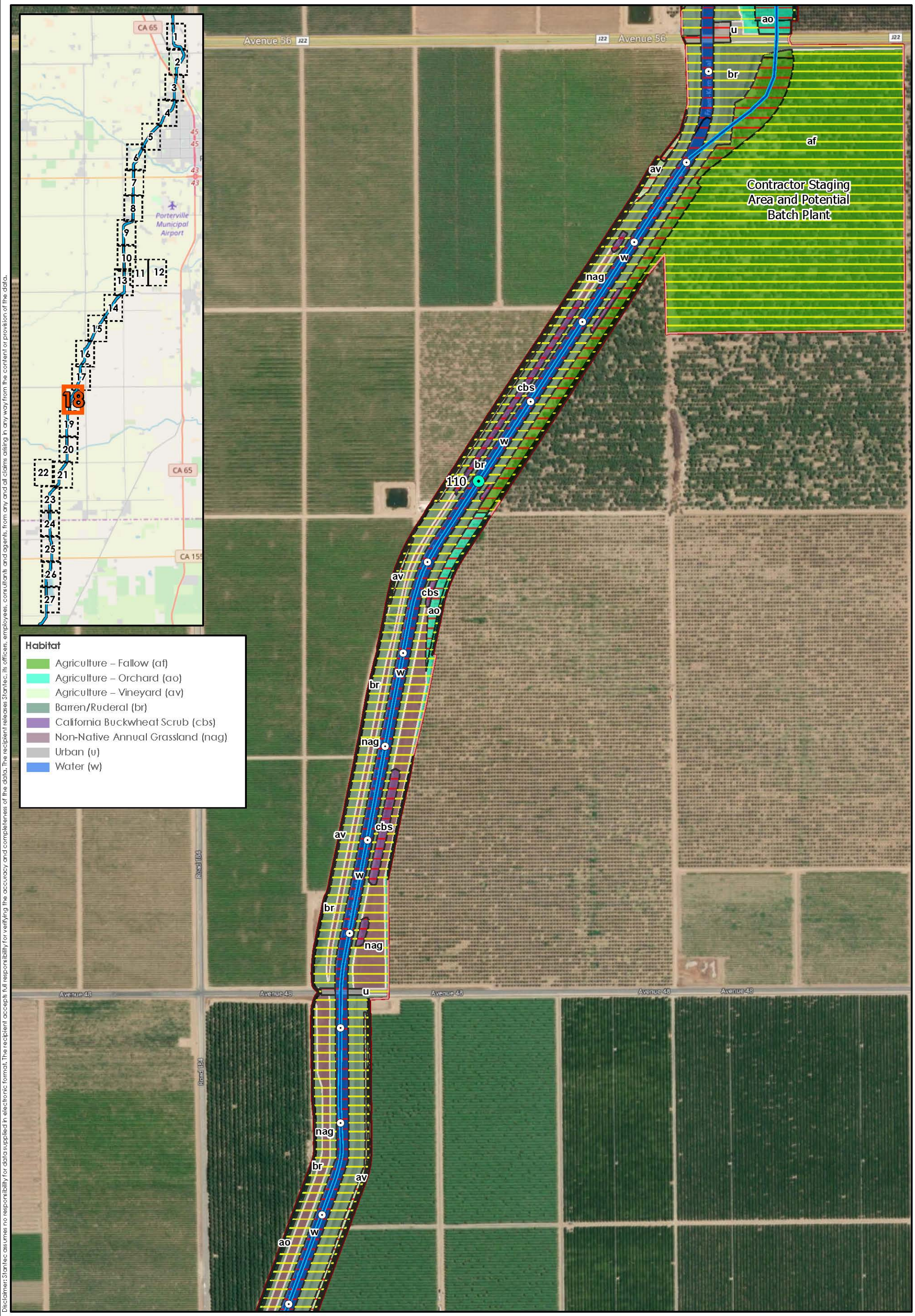

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6R**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP (2020-03-04)

Friant Water Authority
Stantec

N

0 500 1,000 Feet
1: 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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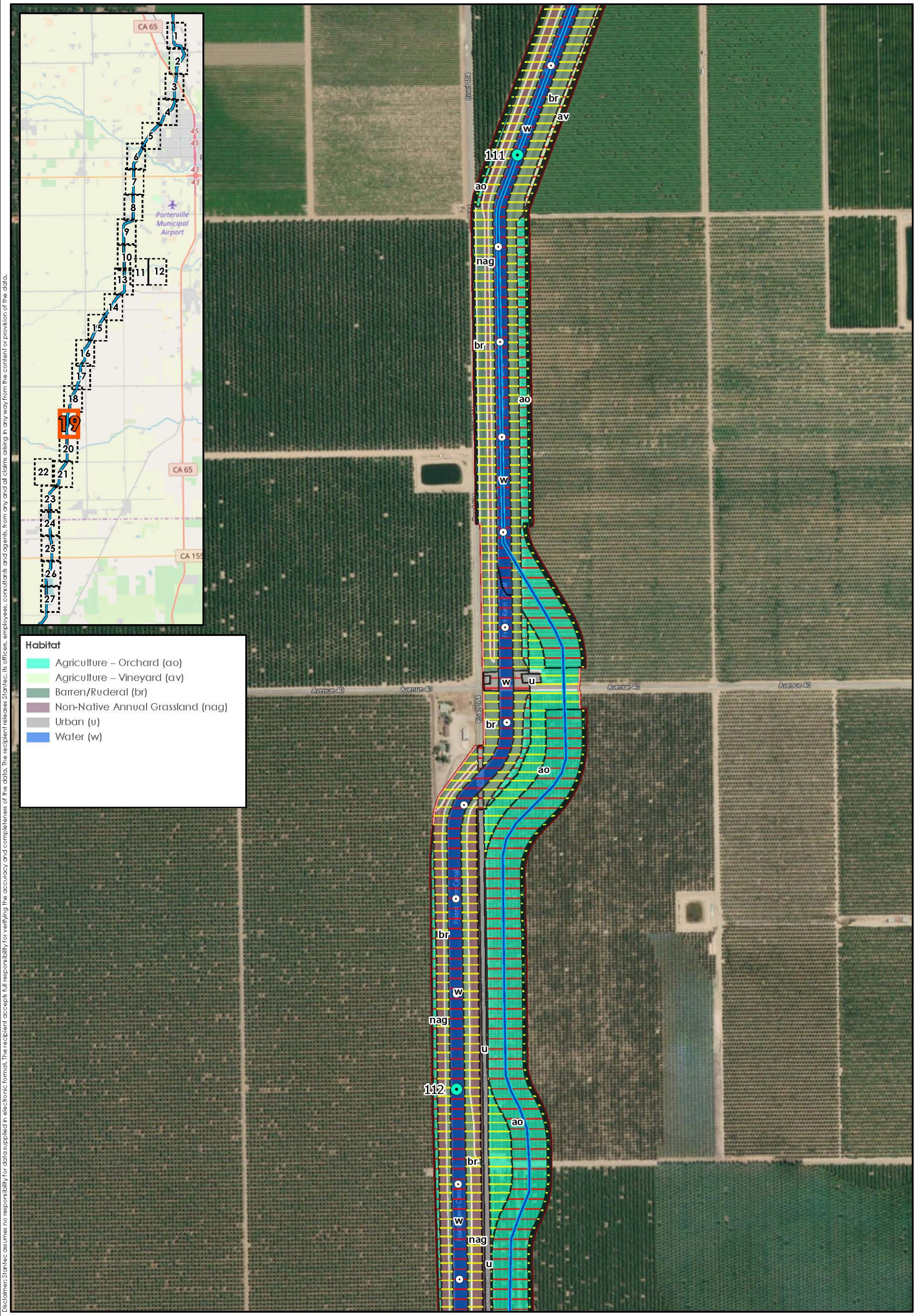

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
Mile Post
Tenth-of-Mile
No Impact
Permanent
Temporary

Figure No. **6S**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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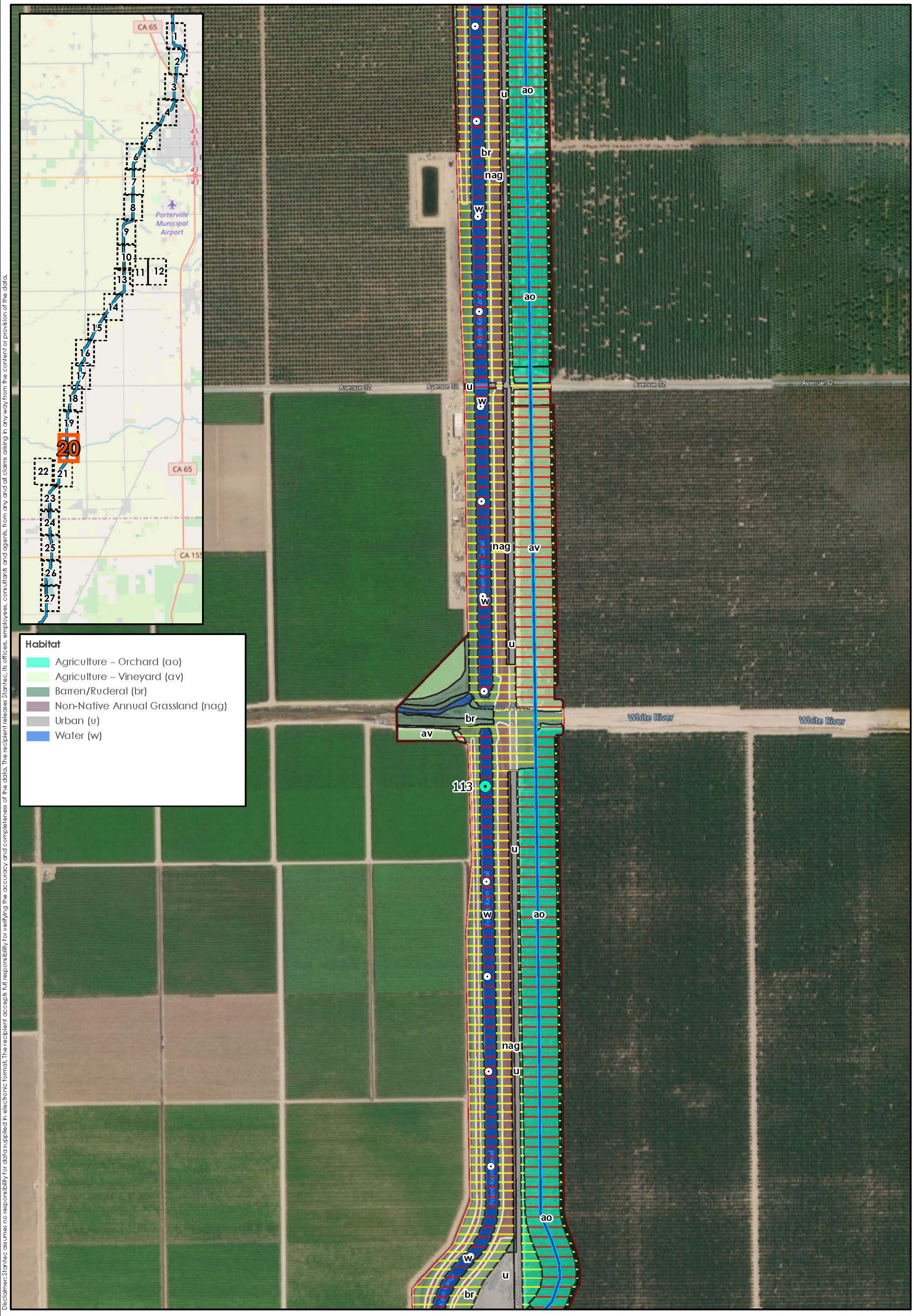

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6T**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant WATER AUTHORITY
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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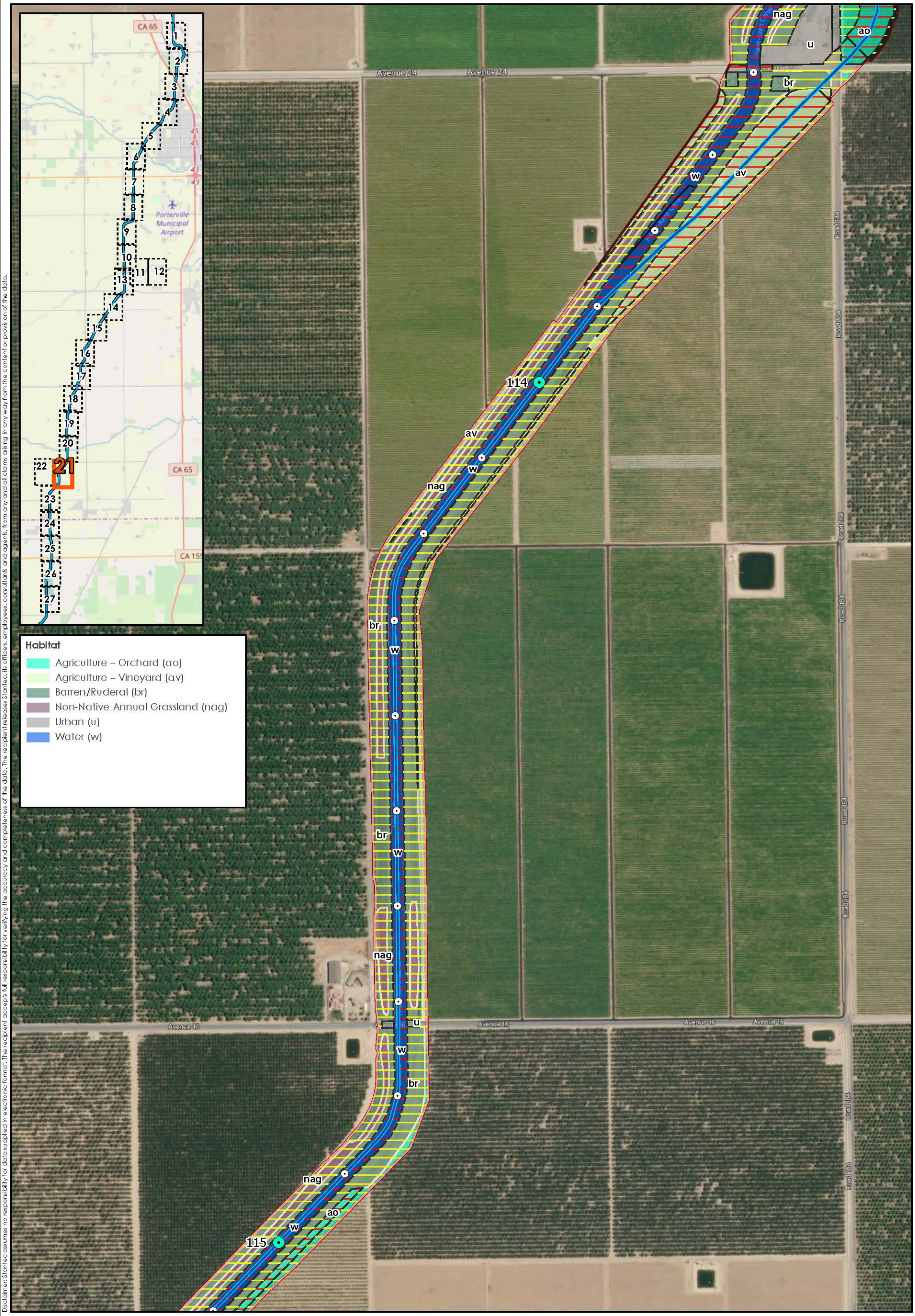

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6U**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant WATER AUTHORITY
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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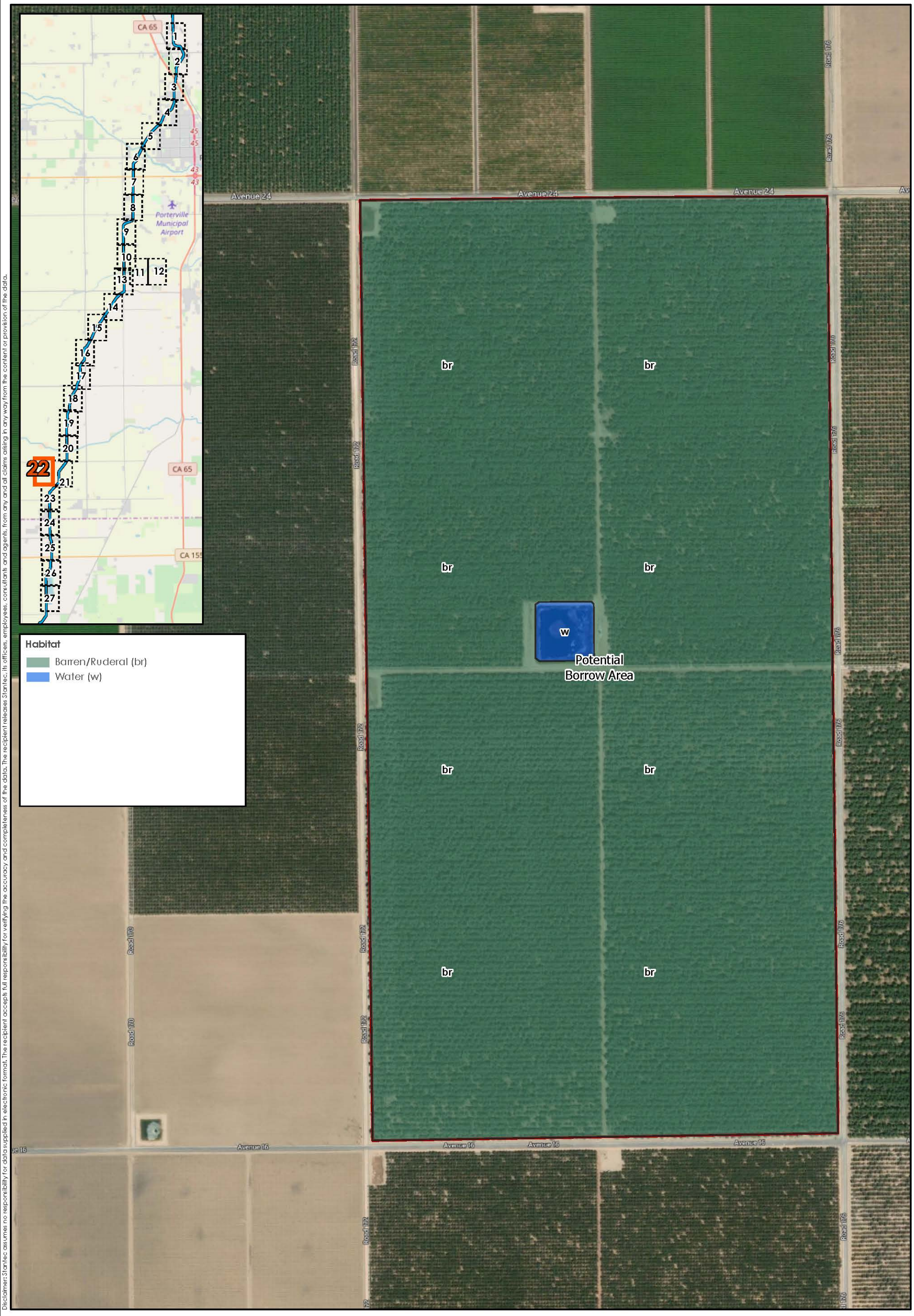

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6V**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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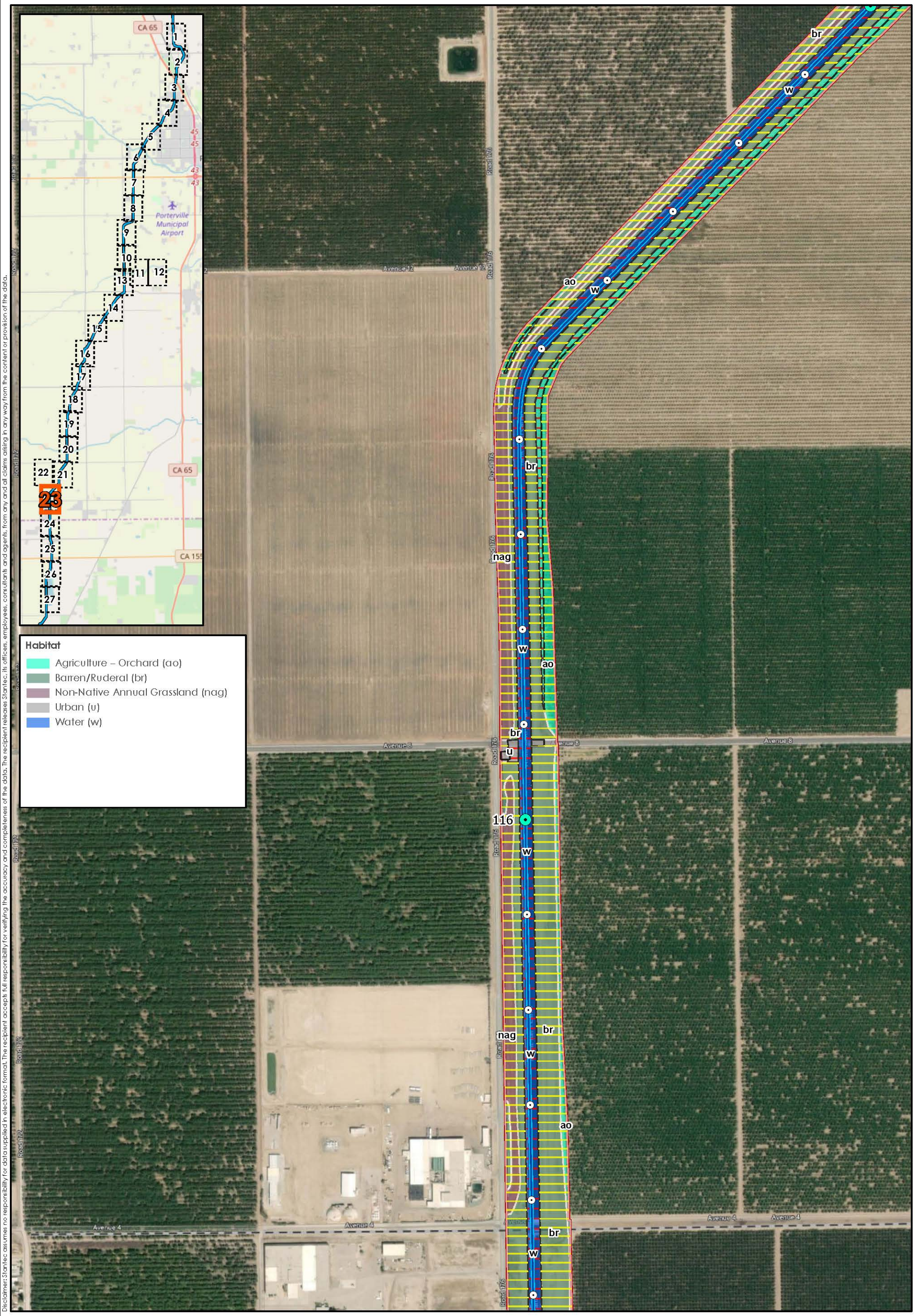

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6W**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant Water Authority
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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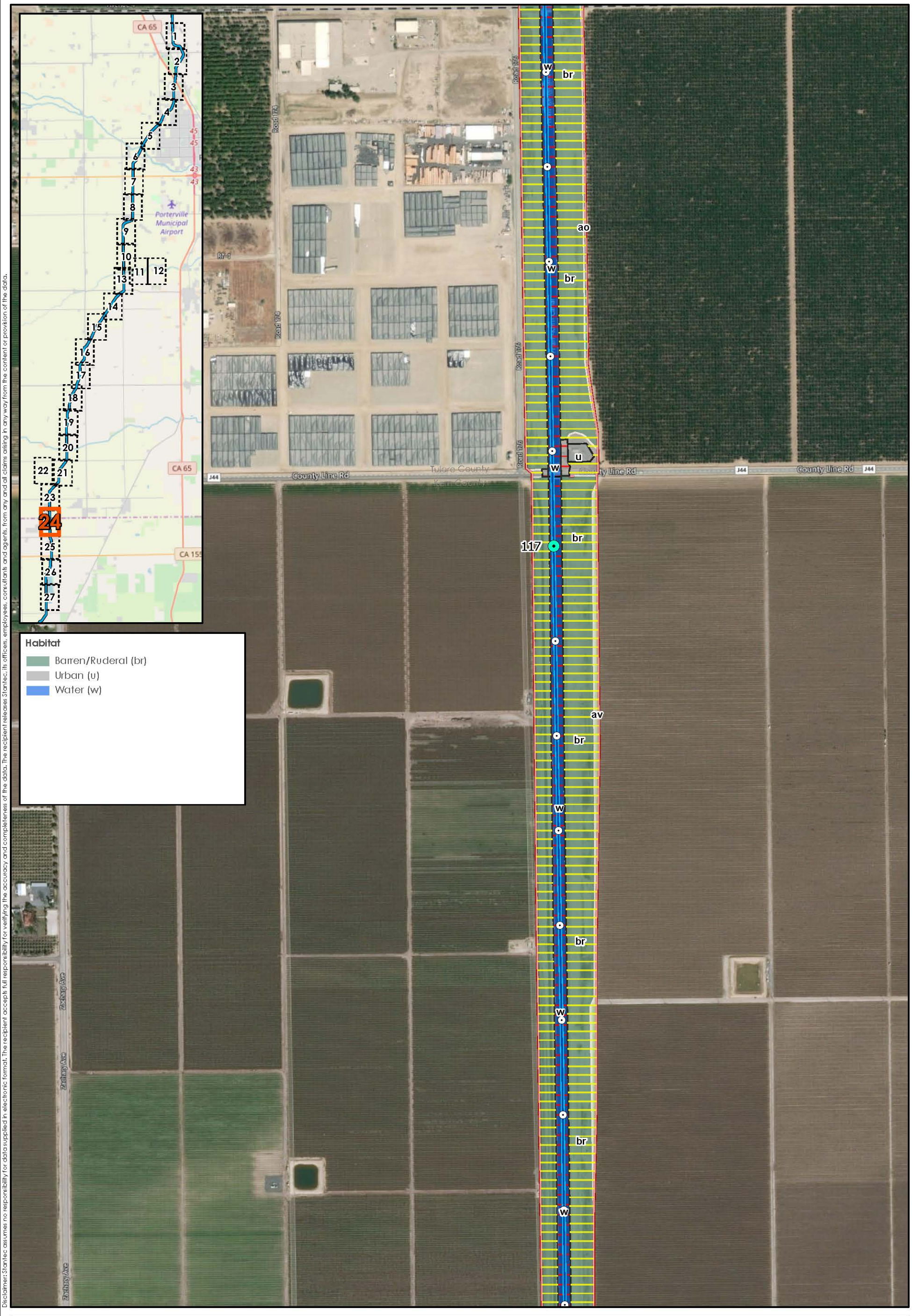

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No.
6X

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant WATER AUTHORITY
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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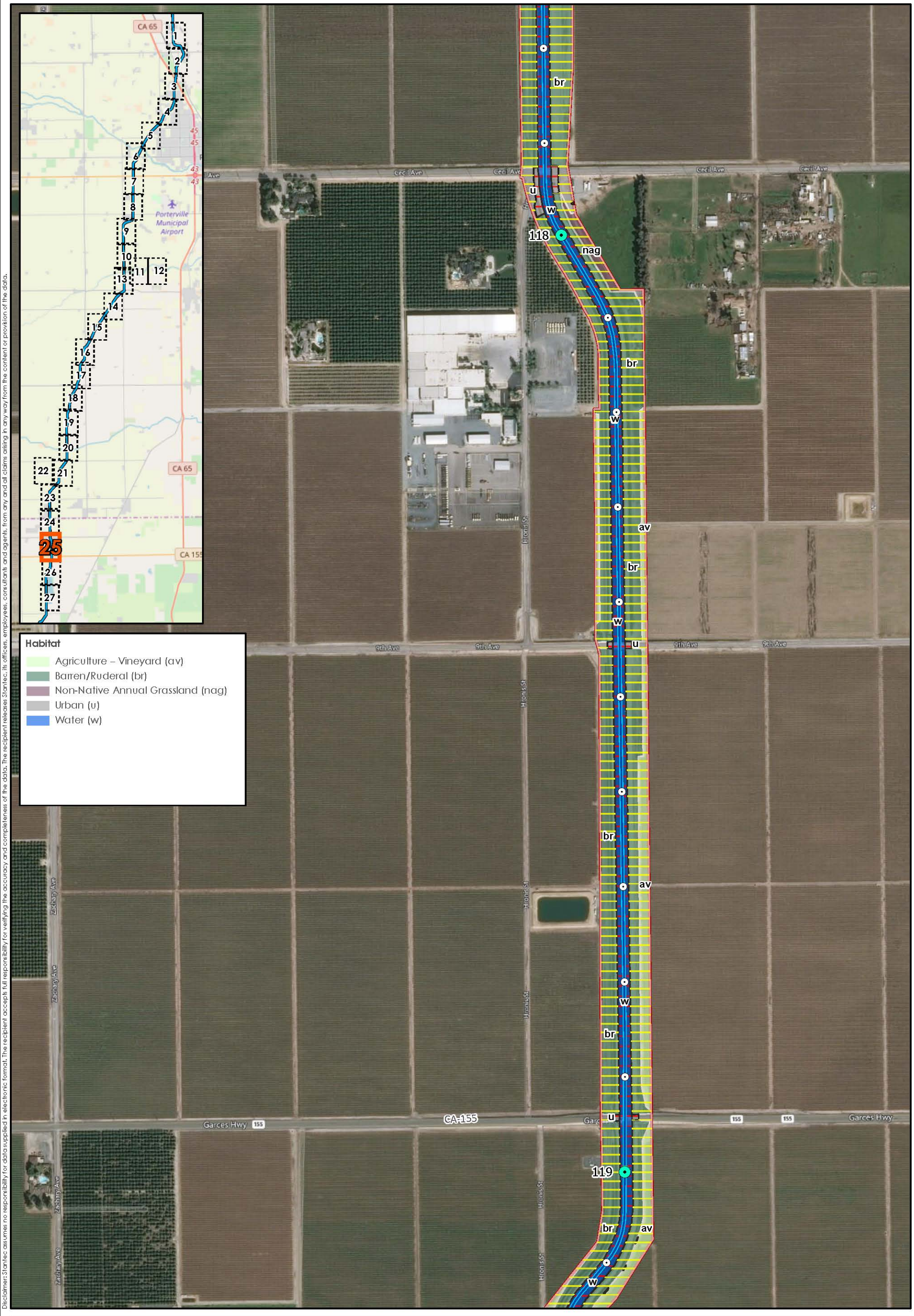

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6Y**
Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

184031016
Prepared by SCP (2020-03-04)

Friant Water Authority
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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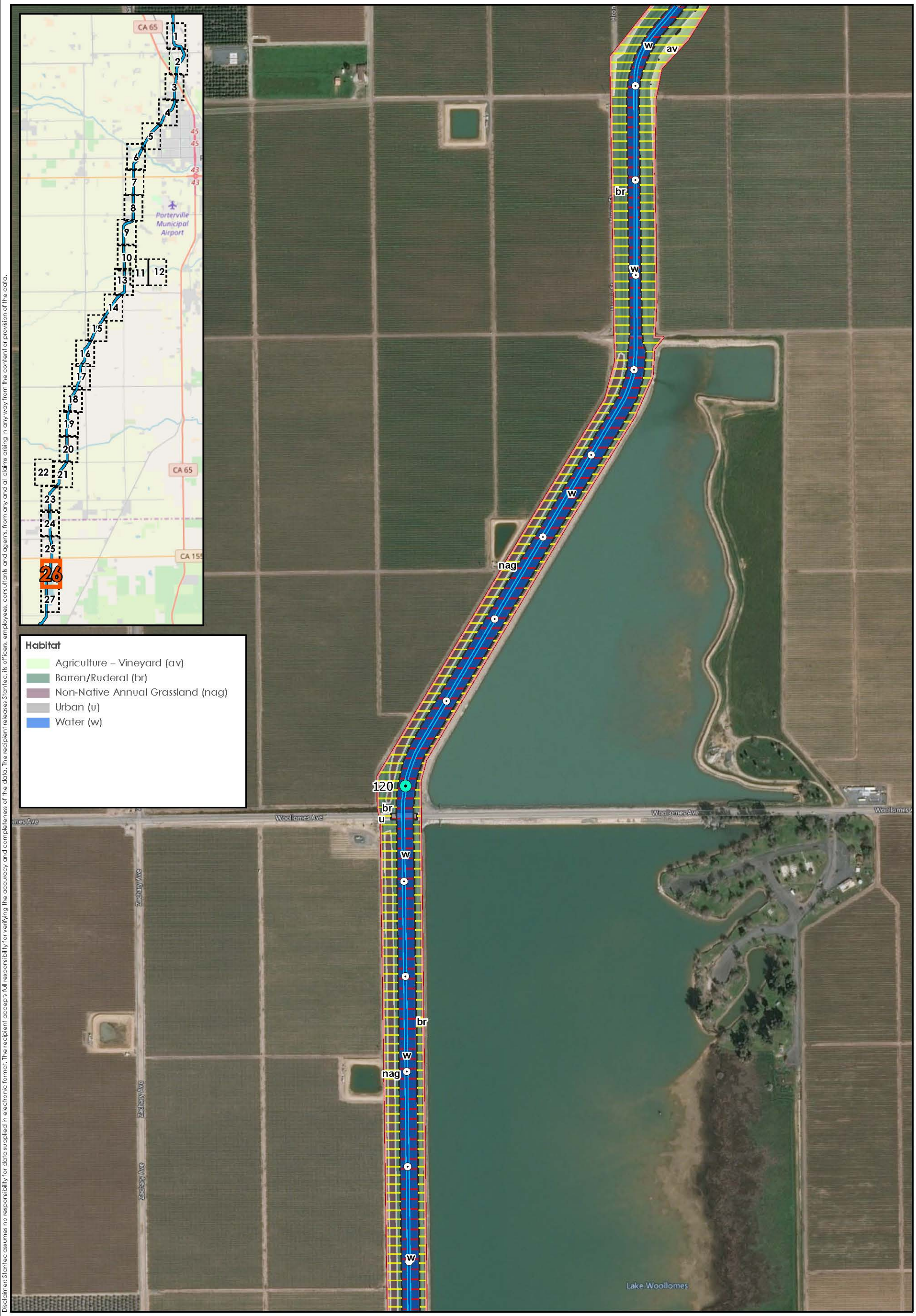

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No. **6Z**

Date: **Mar 04, 2020**

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Friant WATER AUTHORITY
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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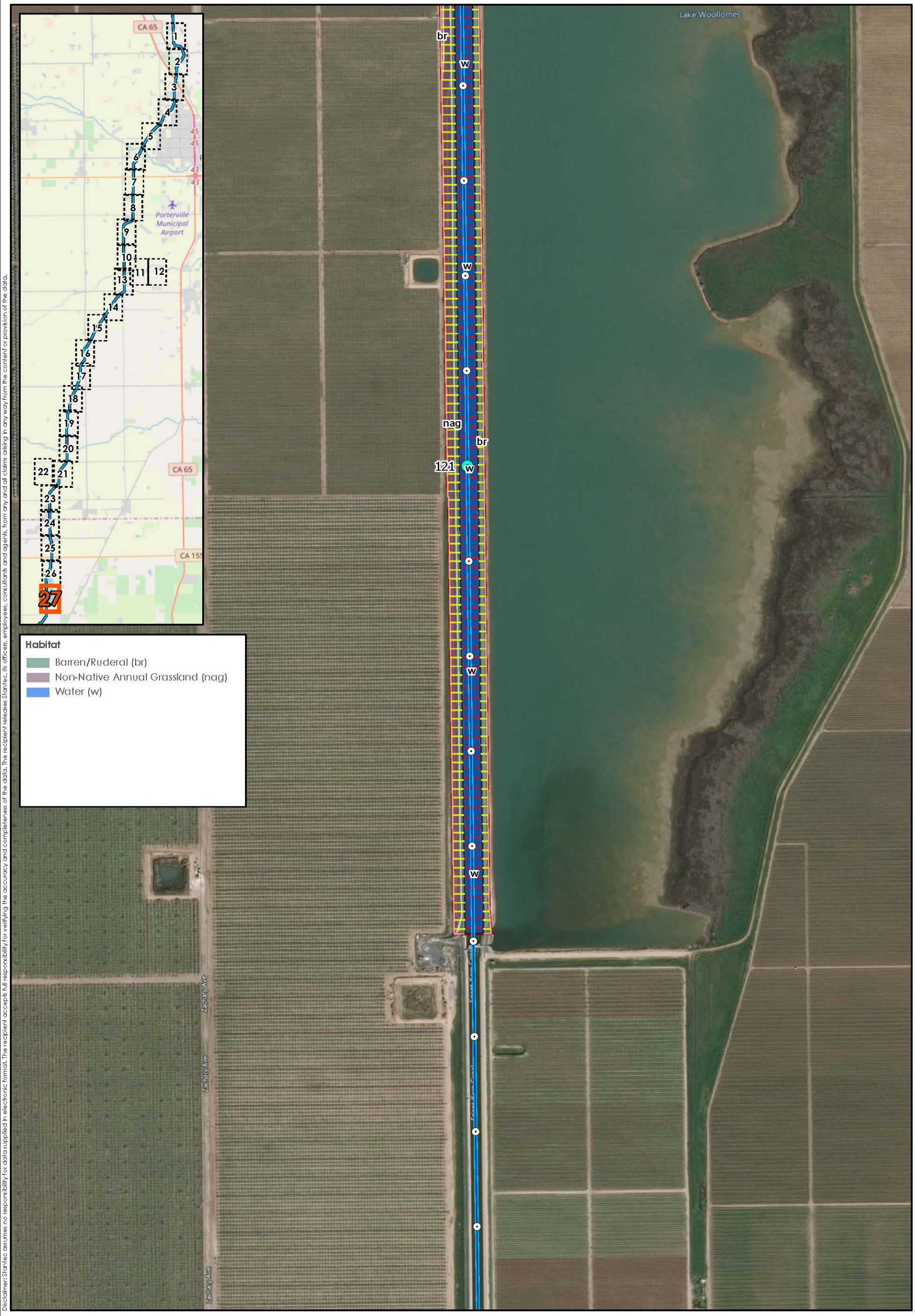

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FRIANT-KERN CANAL MIDDLE REACH CAPACITY CORRECTION PROJECT

Canal Enlargement Alternative

Project Area
Proposed Canal Enlargement Centerline

Potential Impacts
No Impact
Permanent
Temporary

Mile Post
Tenth-of-Mile

Figure No.
6A1

Date:
Mar 04, 2020

Title
Impacts by Habitat

Project Location
Tulare and Kern Counties, CA
7.5' USGS Quadrangles
Porterville, California (1971)
Sausalito School, California (1971)
Ducor, California (1972)

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Prepared by SCP
(2020-03-04)

Friant WATER AUTHORITY
Stantec

N

0 500 1,000 Feet
1 : 6,000 (At original document size of 11x17)

Client/Project
Friant Water Authority
Friant-Kern Canal Middle Reach Capacity Correction Project

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