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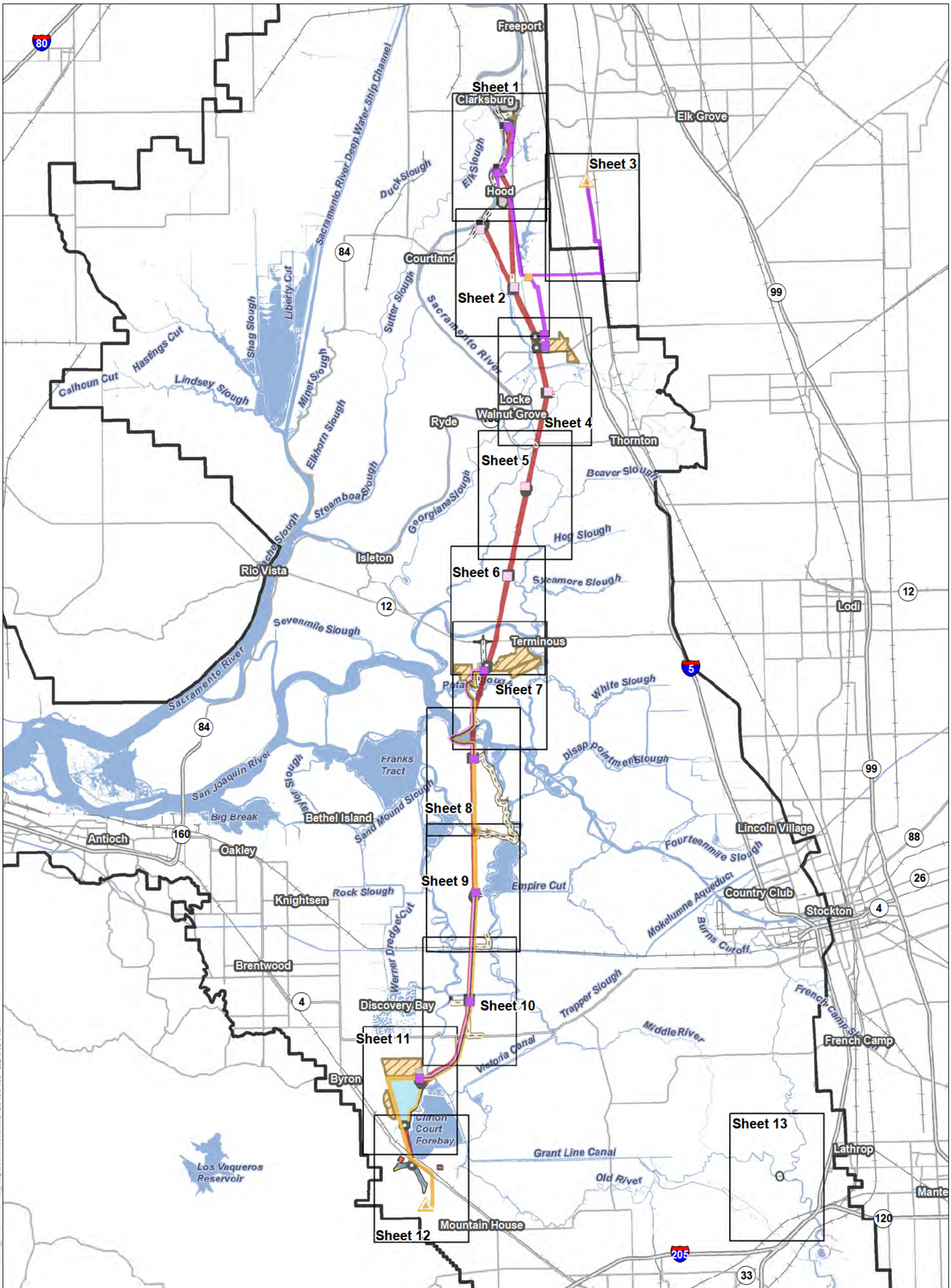


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


CONCEPTUAL ENGINEERING REPORT
MAPBOOK
BYRON TRACT FOREBAY OPTION

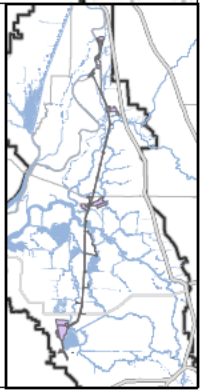
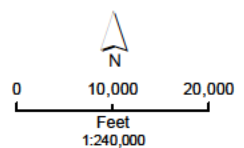
VOLUME **3** / 3

PRELIMINARY - NOT FOR CONSTRUCTION



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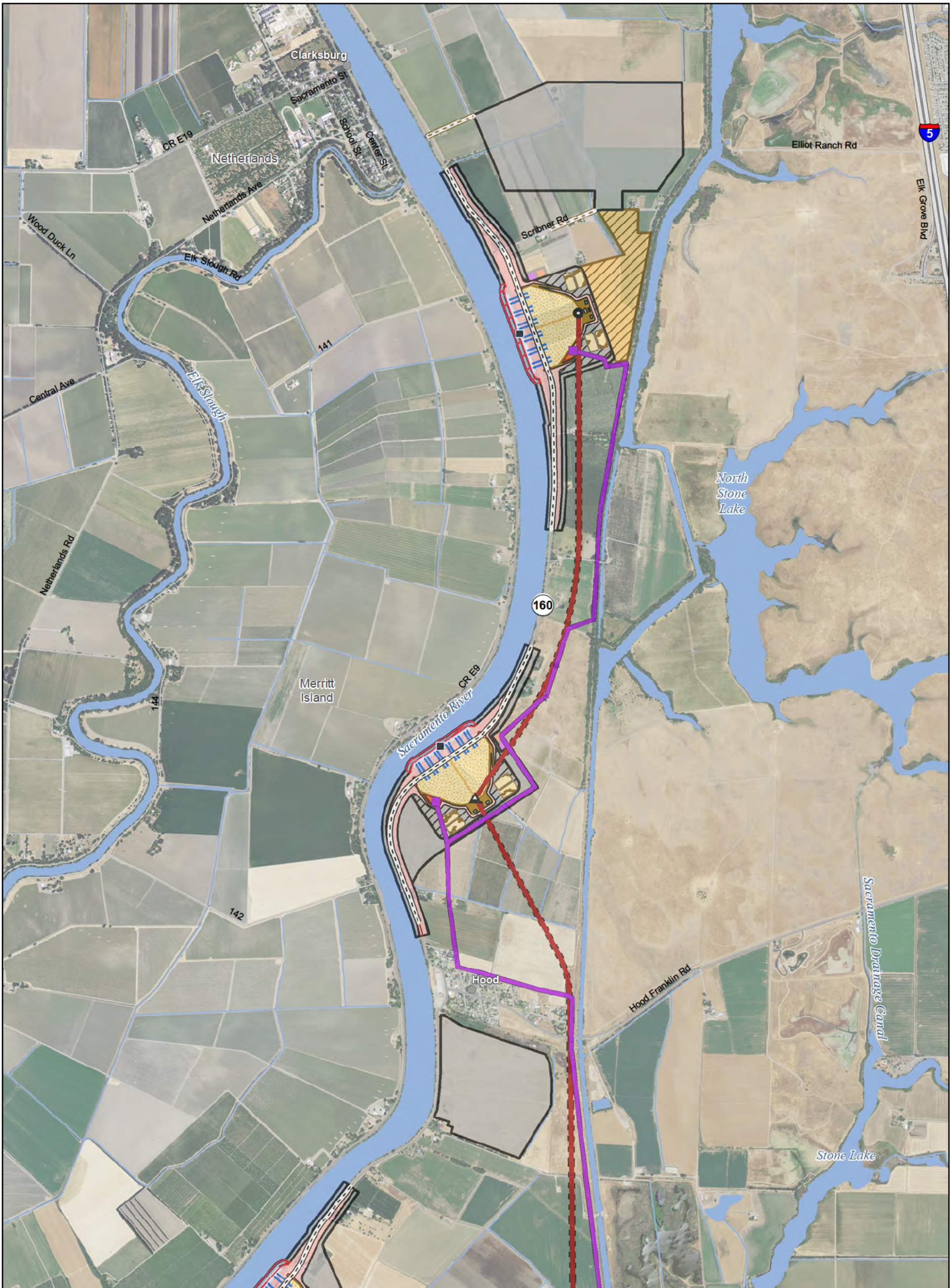
- Legend**
-  Interstate
 -  State Highway/Route
 -  Railroad
 -  Plan Area
 -  Water



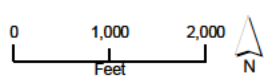
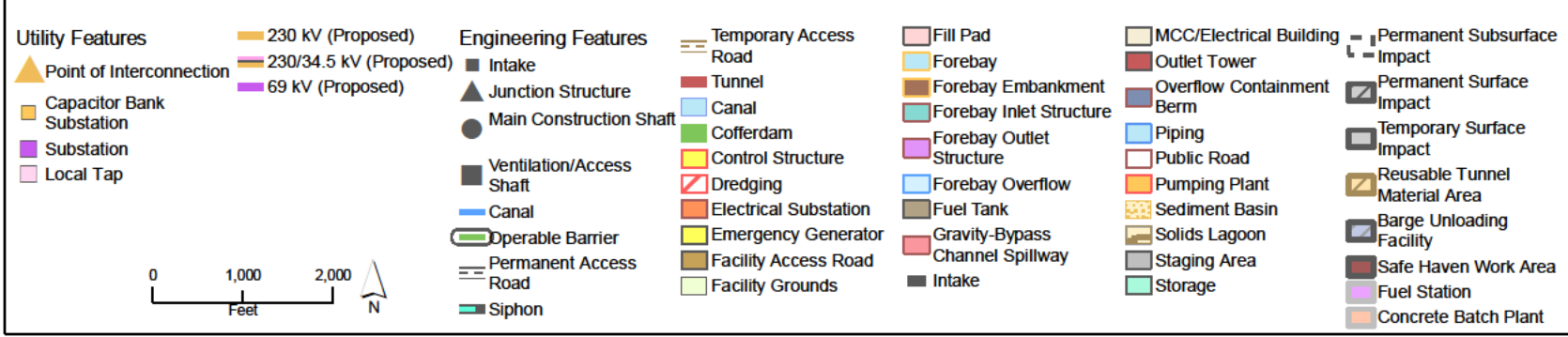
Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

Figure: Index
BTF Rev 1e
Byron Tract Forebay Option

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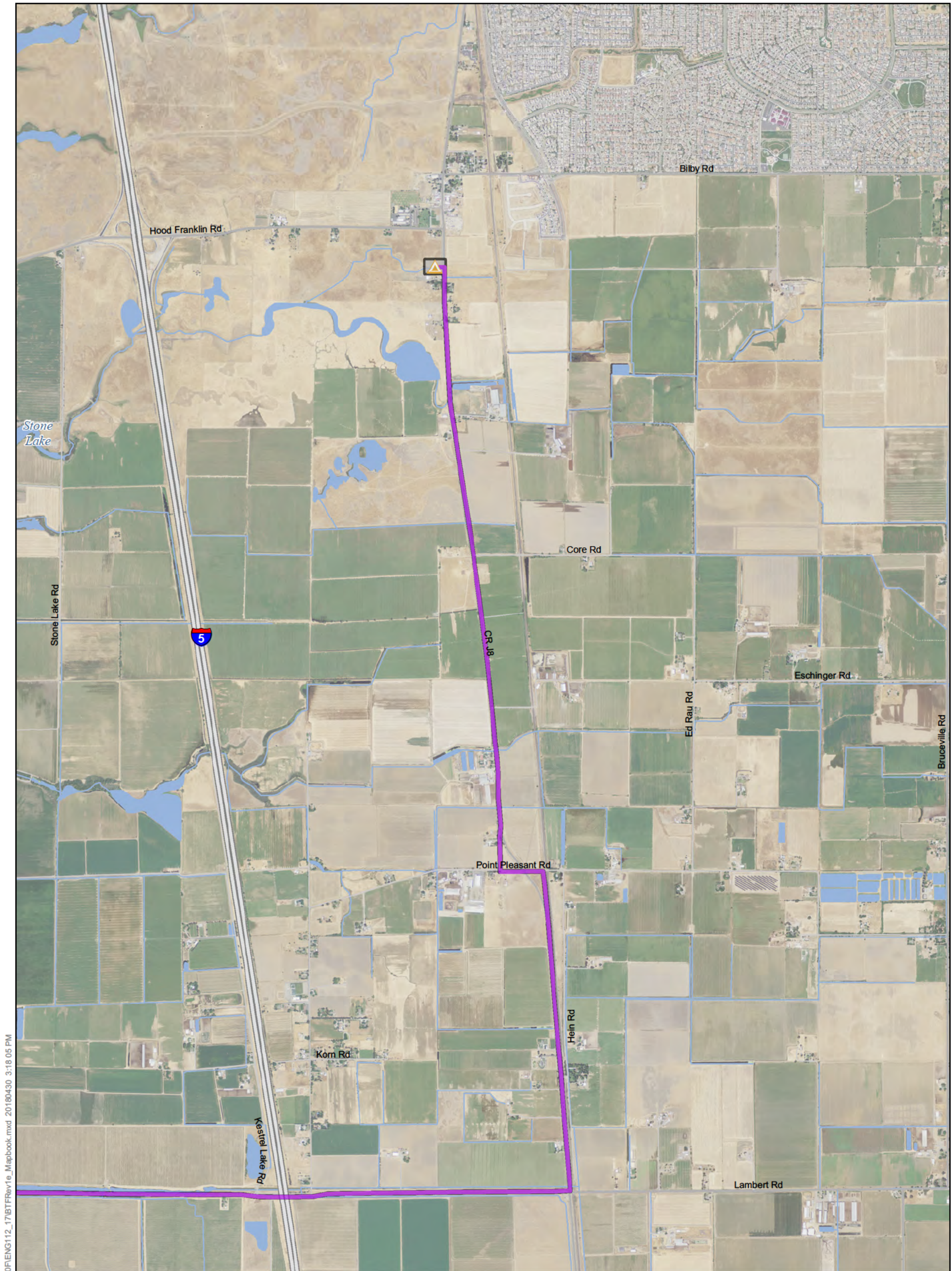
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Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

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**Figure : Sheet 1 of 13
BTF Rev 1e
Byron Tract Forebay Option**



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Utility Features Point of Interconnection Capacitor Bank Substation Substation Local Tap	230 kV (Proposed) 230/34.5 kV (Proposed) 69 kV (Proposed)	Engineering Features Intake Junction Structure Main Construction Shaft Ventilation/Access Shaft Canal Operable Barrier Permanent Access Road Siphon	Temporary Access Road Tunnel Canal Cofferdam Control Structure Dredging Electrical Substation Emergency Generator Facility Access Road Facility Grounds	Fill Pad Forebay Forebay Embankment Forebay Inlet Structure Forebay Outlet Structure Forebay Overflow Fuel Tank Gravity-Bypass Channel Spillway Intake	MCC/Electrical Building Outlet Tower Overflow Containment Berm Piping Public Road Pumping Plant Sediment Basin Solids Lagoon Staging Area Storage	Permanent Subsurface Impact Permanent Surface Impact Temporary Surface Impact Reusable Tunnel Material Area Barge Unloading Facility Safe Haven Work Area Fuel Station Concrete Batch Plant
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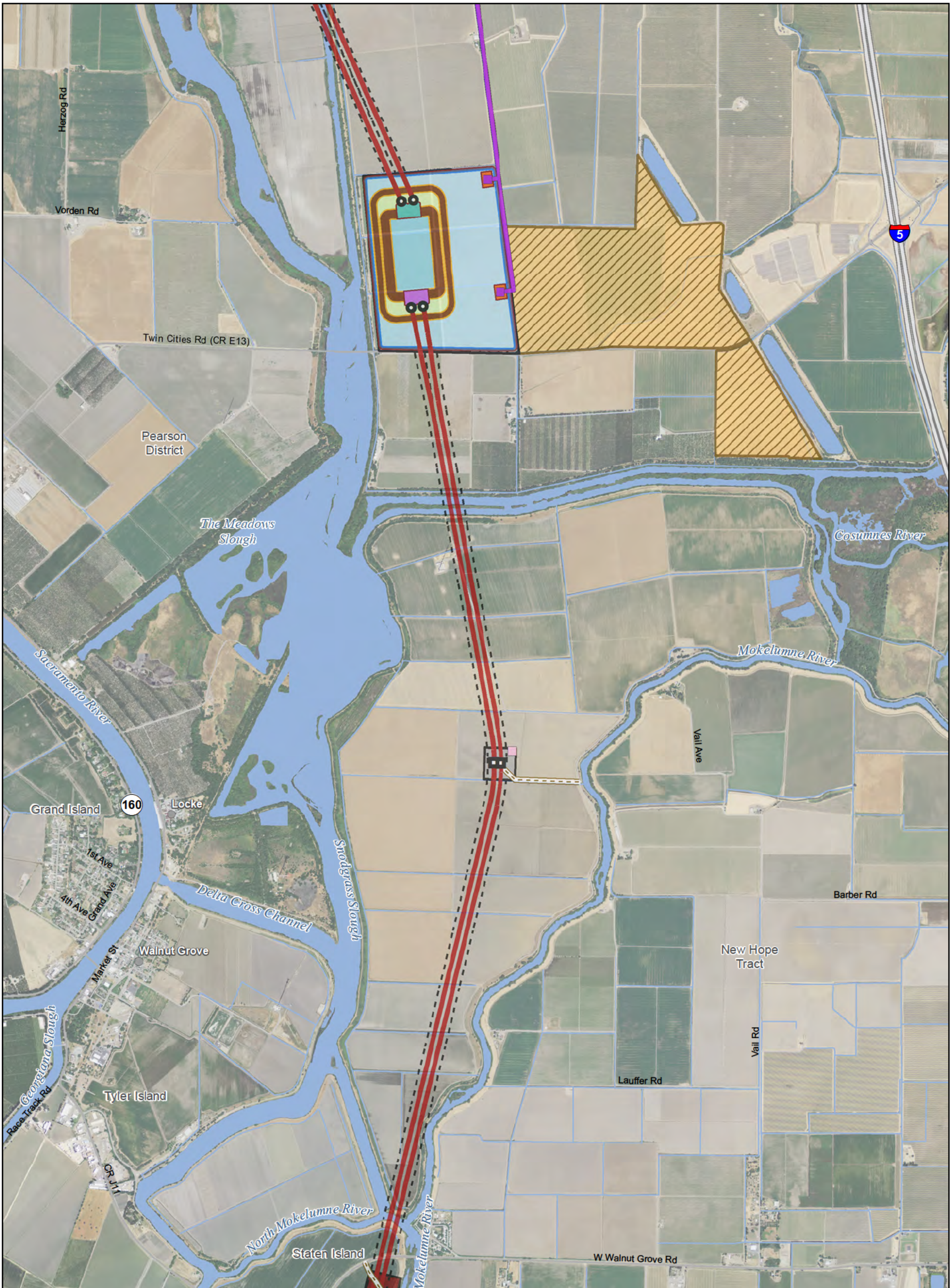
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Sources: Plan Area, SAIC 2010, DWR DCE Engineering BTF (rev 1e), NAIP 2012

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**Figure : Sheet 3 of 13
BTF Rev 1e
Byron Tract Forebay Option**



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Utility Features ▲ Point of Interconnection □ Capacitor Bank Substation □ Substation □ Local Tap	■ 230 kV (Proposed) ■ 230/34.5 kV (Proposed) ■ 69 kV (Proposed)	Engineering Features ■ Intake ▲ Junction Structure ● Main Construction Shaft ■ Ventilation/Access Shaft ■ Canal ■ Operable Barrier ■ Permanent Access Road ■ Siphon	■ Temporary Access Road ■ Tunnel ■ Canal ■ Cofferdam ■ Control Structure ■ Dredging ■ Electrical Substation ■ Emergency Generator ■ Facility Access Road ■ Facility Grounds	■ Fill Pad ■ Forebay ■ Forebay Embankment ■ Forebay Inlet Structure ■ Forebay Outlet Structure ■ Forebay Overflow ■ Fuel Tank ■ Gravity-Bypass ■ Intake	■ MCC/Electrical Building ■ Outlet Tower ■ Overflow Containment Berm ■ Piping ■ Public Road ■ Pumping Plant ■ Sediment Basin ■ Solids Lagoon ■ Staging Area ■ Storage	■ Permanent Subsurface Impact ■ Permanent Surface Impact ■ Temporary Surface Impact ■ Reusable Tunnel Material Area ■ Barge Unloading Facility ■ Safe Haven Work Area ■ Fuel Station ■ Concrete Batch Plant
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Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

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Byron Tract Forebay Option

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Utility Features ▲ Point of Interconnection □ Capacitor Bank Substation □ Substation □ Local Tap	■ 230 kV (Proposed) ■ 230/34.5 kV (Proposed) ■ 69 kV (Proposed)	Engineering Features ■ Intake ▲ Junction Structure ● Main Construction Shaft ■ Ventilation/Access Shaft ■ Canal ■ Operable Barrier ■ Permanent Access Road ■ Siphon	■ Temporary Access Road ■ Tunnel ■ Canal ■ Cofferdam ■ Control Structure ■ Dredging ■ Electrical Substation ■ Emergency Generator ■ Facility Access Road ■ Facility Grounds	■ Fill Pad ■ Forebay ■ Forebay Embankment ■ Forebay Inlet Structure ■ Forebay Outlet Structure ■ Forebay Overflow ■ Fuel Tank ■ Gravity-Bypass ■ Intake	■ MCC/Electrical Building ■ Outlet Tower ■ Overflow Containment Berm ■ Piping ■ Public Road ■ Pumping Plant ■ Sediment Basin ■ Solids Lagoon ■ Staging Area ■ Storage	■ Permanent Subsurface Impact ■ Permanent Surface Impact ■ Temporary Surface Impact ■ Reusable Tunnel Material Area ■ Barge Unloading Facility ■ Safe Haven Work Area ■ Fuel Station ■ Concrete Batch Plant
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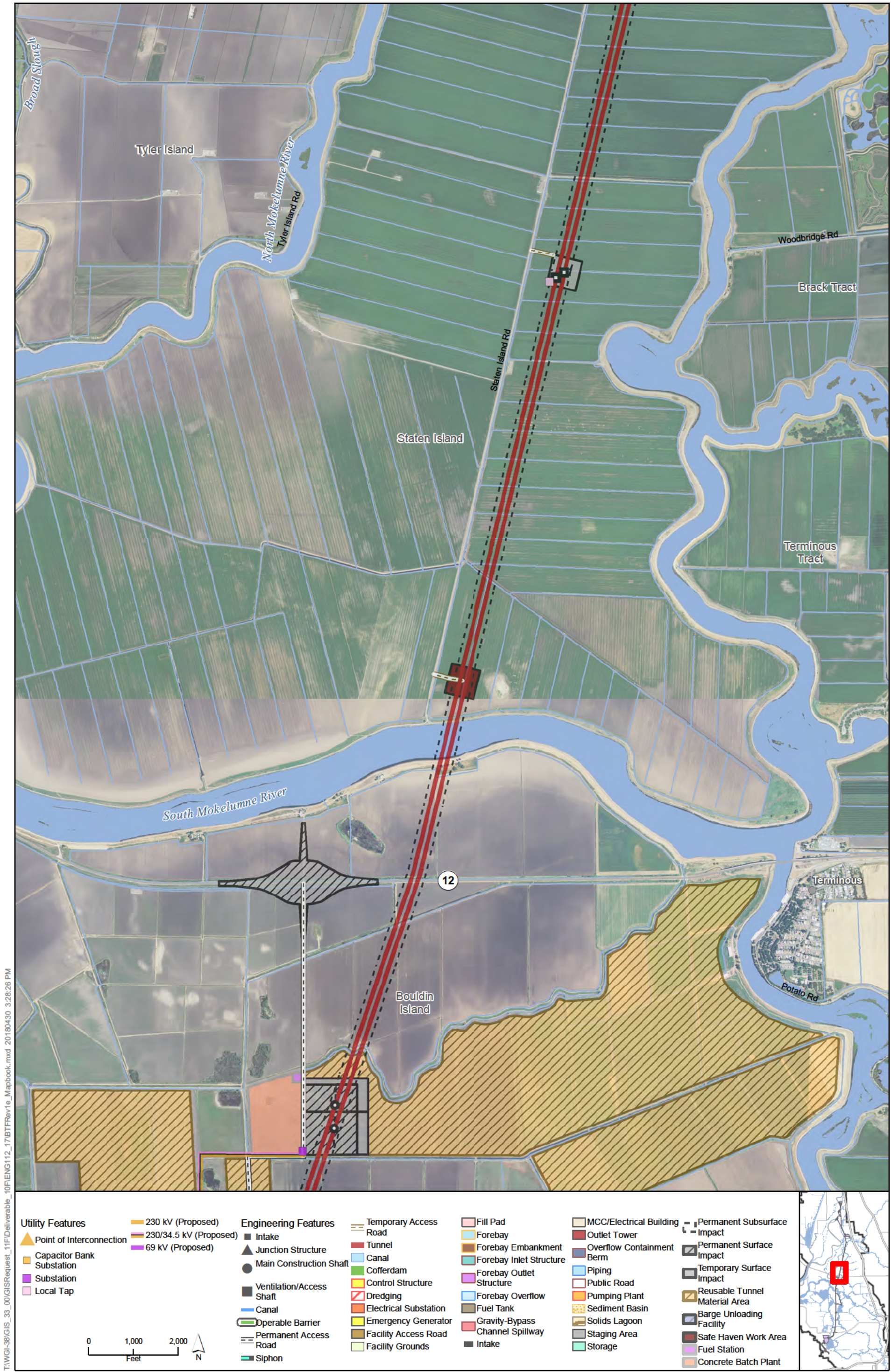
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Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

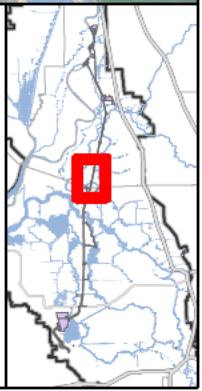
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**Figure : Sheet 5 of 13
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Byron Tract Forebay Option**



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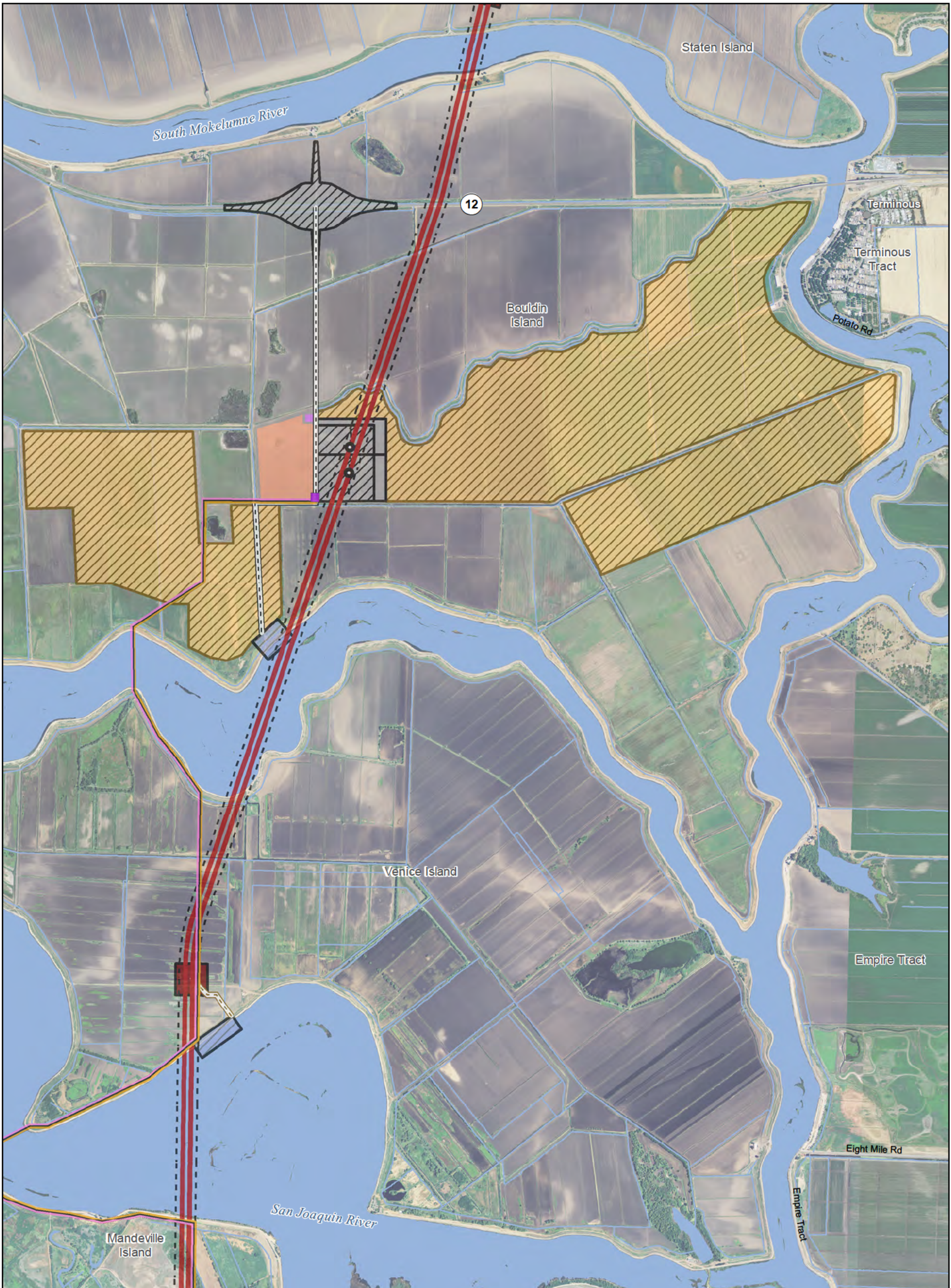
Utility Features Point of Interconnection Capacitor Bank Substation Substation Local Tap	230 kV (Proposed) 230/34.5 kV (Proposed) 69 kV (Proposed)	Engineering Features Intake Junction Structure Main Construction Shaft Ventilation/Access Shaft Canal Operable Barrier Permanent Access Road Siphon	Temporary Access Road Tunnel Canal Cofferdam Control Structure Dredging Electrical Substation Emergency Generator Facility Access Road Facility Grounds	Fill Pad Forebay Forebay Embankment Forebay Inlet Structure Forebay Outlet Structure Forebay Overflow Fuel Tank Gravity-Bypass Channel Spillway Intake	MCC/Electrical Building Outlet Tower Overflow Containment Berm Piping Public Road Pumping Plant Sediment Basin Solids Lagoon Staging Area Storage	Permanent Subsurface Impact Permanent Surface Impact Temporary Surface Impact Reusable Tunnel Material Area Barge Unloading Facility Safe Haven Work Area Fuel Station Concrete Batch Plant
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Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

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Utility Features ▲ Point of Interconnection □ Capacitor Bank Substation □ Substation □ Local Tap	— 230 kV (Proposed) — 230/34.5 kV (Proposed) — 69 kV (Proposed)	Engineering Features ■ Intake ▲ Junction Structure ● Main Construction Shaft ■ Ventilation/Access Shaft — Canal — Operable Barrier — Permanent Access Road — Siphon	— Temporary Access Road — Tunnel — Canal — Cofferdam — Control Structure — Dredging — Electrical Substation — Emergency Generator — Facility Access Road — Facility Grounds	■ Fill Pad ■ Forebay ■ Forebay Embankment ■ Forebay Inlet Structure ■ Forebay Outlet Structure ■ Forebay Overflow ■ Fuel Tank ■ Gravity-Bypass ■ Intake	■ MCC/Electrical Building ■ Outlet Tower ■ Overflow Containment Berm ■ Piping ■ Public Road ■ Pumping Plant ■ Sediment Basin ■ Solids Lagoon ■ Staging Area ■ Storage	■ Permanent Subsurface Impact ■ Permanent Surface Impact ■ Temporary Surface Impact ■ Reusable Tunnel Material Area ■ Barge Unloading Facility ■ Safe Haven Work Area ■ Fuel Station ■ Concrete Batch Plant
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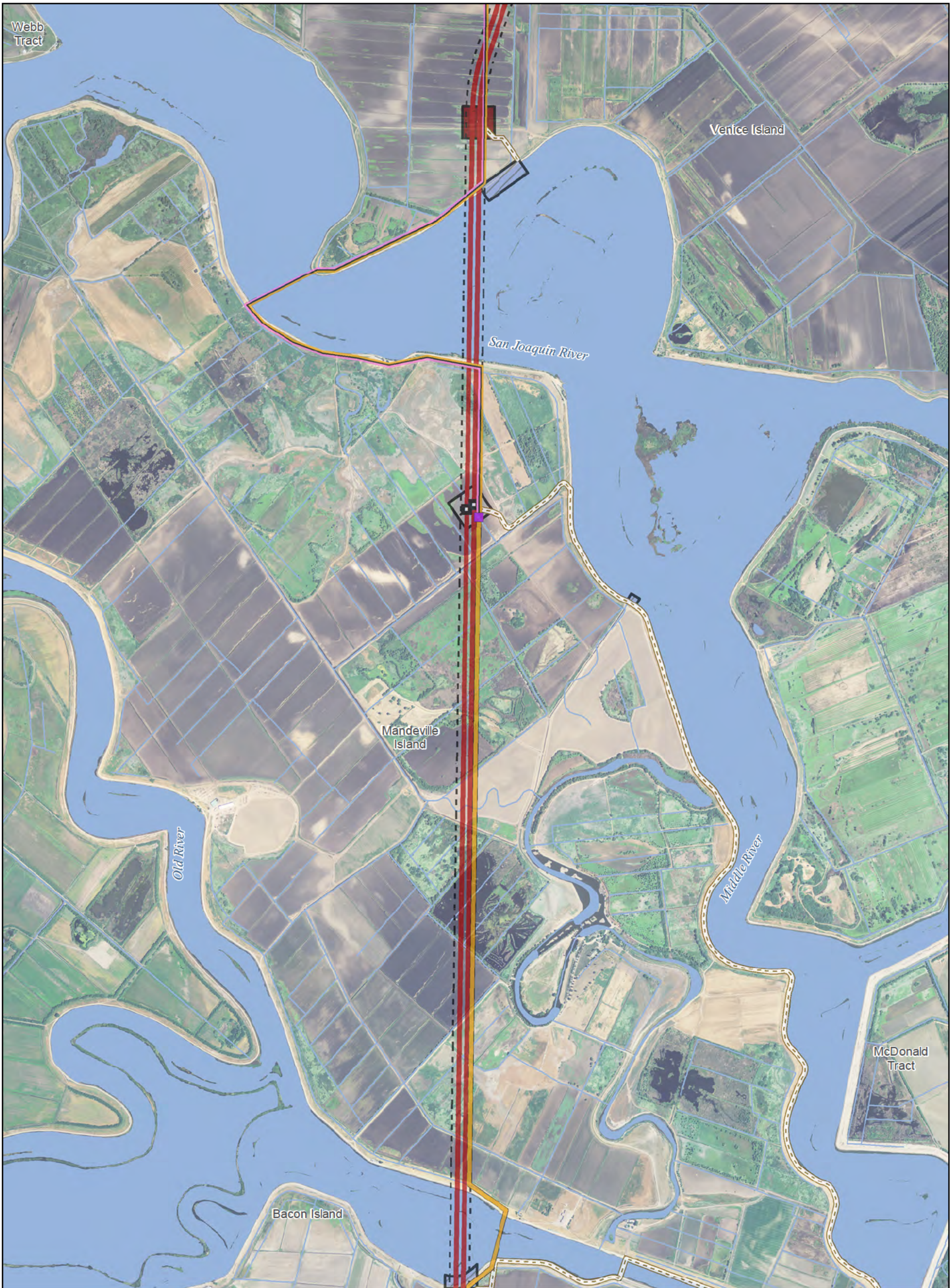
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Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

Figure : Sheet 7 of 13
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Byron Tract Forebay Option

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Utility Features ▲ Point of Interconnection □ Capacitor Bank Substation □ Substation □ Local Tap	— 230 kV (Proposed) — 230/34.5 kV (Proposed) — 69 kV (Proposed)	Engineering Features ■ Intake ▲ Junction Structure ● Main Construction Shaft ■ Ventilation/Access Shaft — Canal — Operable Barrier — Permanent Access Road — Siphon	— Temporary Access Road — Tunnel — Canal — Cofferdam — Control Structure — Dredging — Electrical Substation — Emergency Generator — Facility Access Road — Facility Grounds	■ Fill Pad ■ Forebay ■ Forebay Embankment ■ Forebay Inlet Structure ■ Forebay Outlet Structure ■ Forebay Overflow ■ Fuel Tank ■ Gravity-Bypass ■ Channel Spillway ■ Intake	■ MCC/Electrical Building ■ Outlet Tower ■ Overflow Containment Berm ■ Piping ■ Public Road ■ Pumping Plant ■ Sediment Basin ■ Solids Lagoon ■ Staging Area ■ Storage	■ Permanent Subsurface Impact ■ Permanent Surface Impact ■ Temporary Surface Impact ■ Reusable Tunnel Material Area ■ Barge Unloading Facility ■ Safe Haven Work Area ■ Fuel Station ■ Concrete Batch Plant
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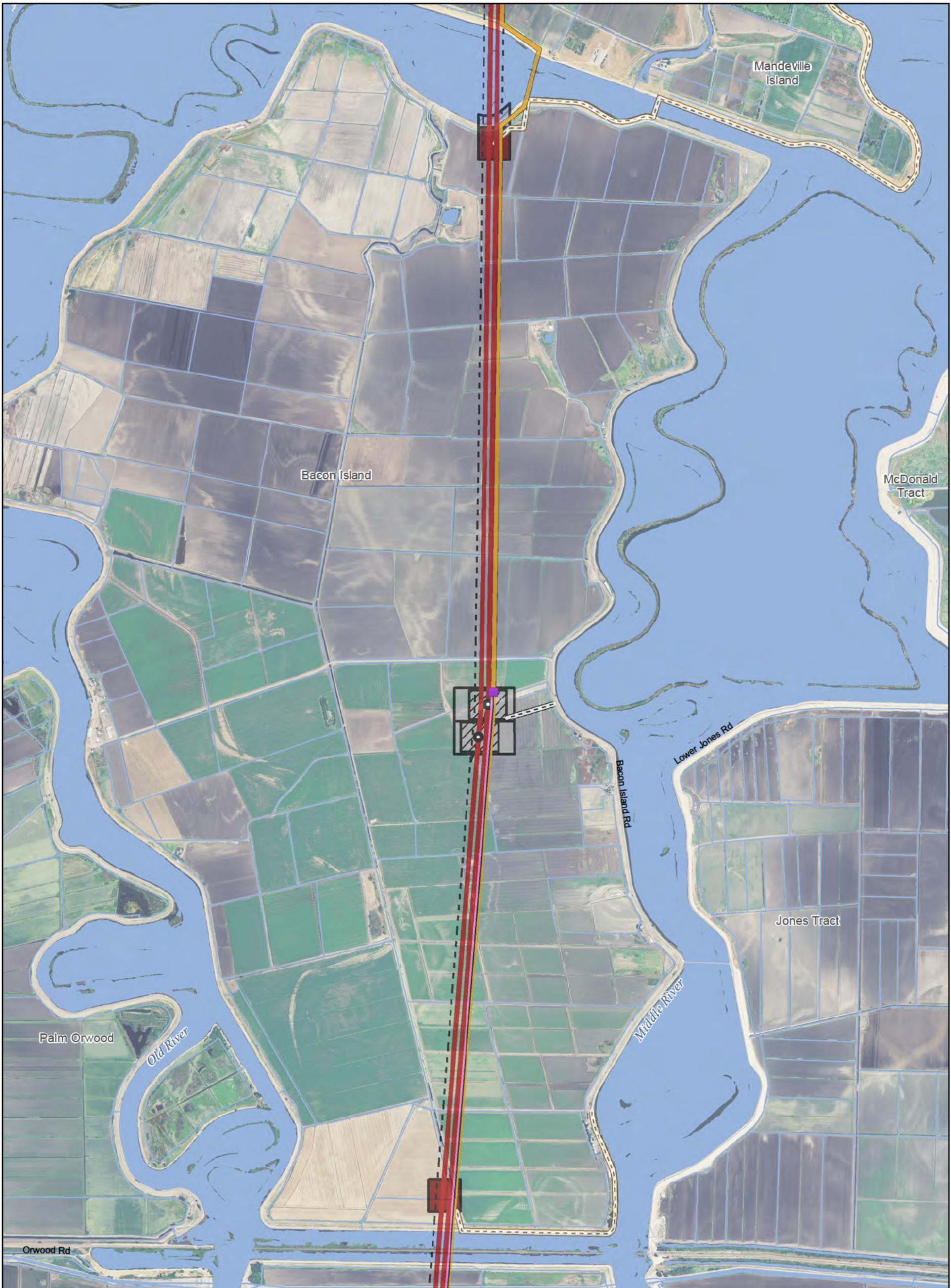
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Sources: Plan Area, SAIC 2010, DWR DCE Engineering BTF (rev 1e), NAIP 2012

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<p>Utility Features</p> <ul style="list-style-type: none"> ▲ Point of Interconnection ■ Capacitor Bank ■ Substation ■ Local Tap 	<ul style="list-style-type: none"> — 230 kV (Proposed) — 230/34.5 kV (Proposed) — 69 kV (Proposed) 	<p>Engineering Features</p> <ul style="list-style-type: none"> ■ Intake ▲ Junction Structure ● Main Construction Shaft ■ Ventilation/Access Shaft — Canal — Operable Barrier — Permanent Access Road — Siphon 	<ul style="list-style-type: none"> — Temporary Access Road — Tunnel — Canal — Cofferdam — Control Structure — Dredging — Electrical Substation — Emergency Generator — Facility Access Road — Facility Grounds 	<ul style="list-style-type: none"> ■ Fill Pad ■ Forebay ■ Forebay Embankment ■ Forebay Inlet Structure ■ Forebay Outlet Structure ■ Forebay Overflow ■ Fuel Tank ■ Gravity-Bypass ■ Channel Spillway ■ Intake 	<ul style="list-style-type: none"> ■ MCC/Electrical Building ■ Outlet Tower ■ Overflow Containment Berm ■ Piping ■ Public Road ■ Pumping Plant ■ Sediment Basin ■ Solids Lagoon ■ Staging Area ■ Storage 	<ul style="list-style-type: none"> ■ Permanent Subsurface Impact ■ Permanent Surface Impact ■ Temporary Surface Impact ■ Reusable Tunnel Material Area ■ Barge Unloading Facility ■ Safe Haven Work Area ■ Fuel Station ■ Concrete Batch Plant
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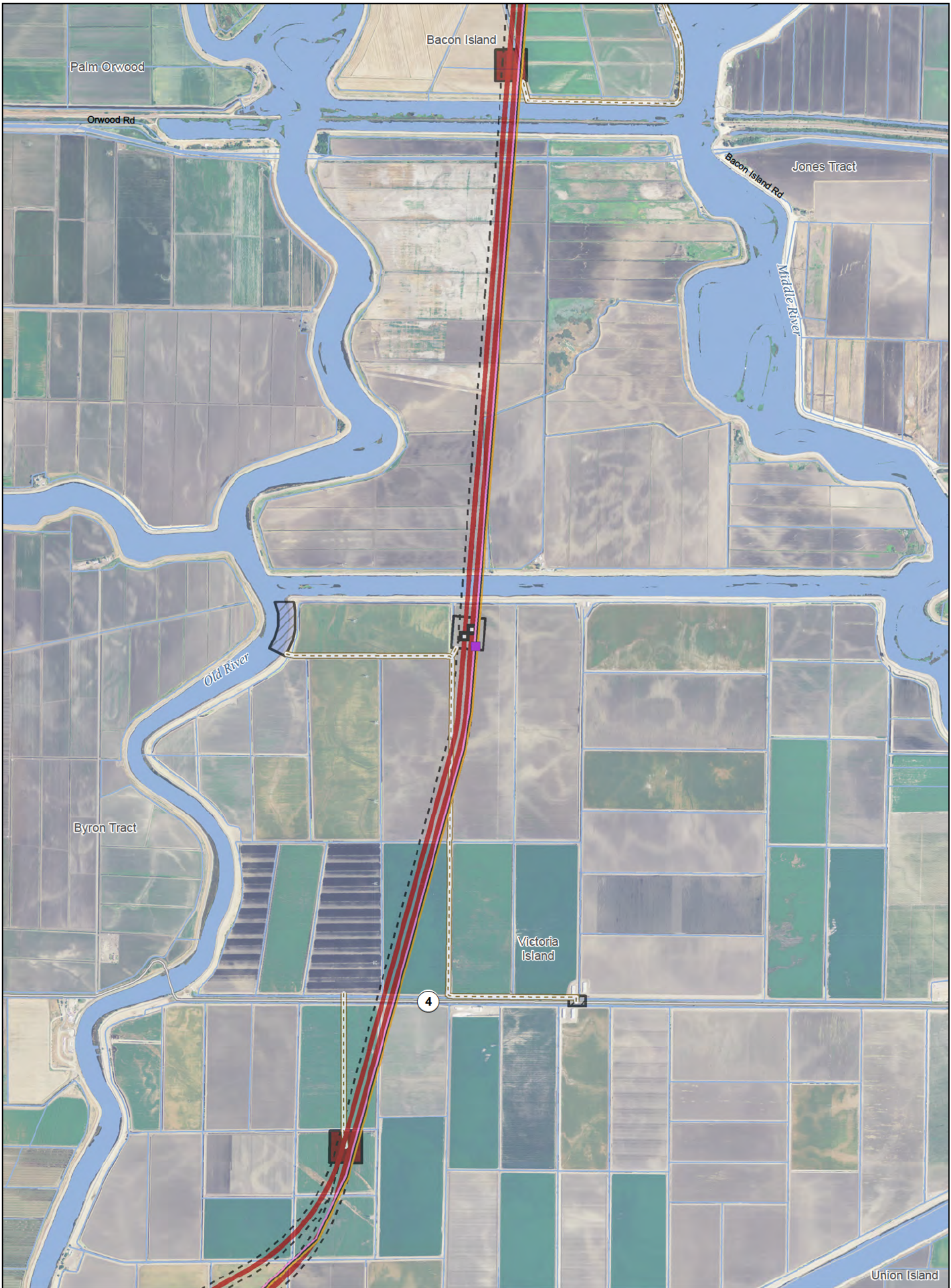
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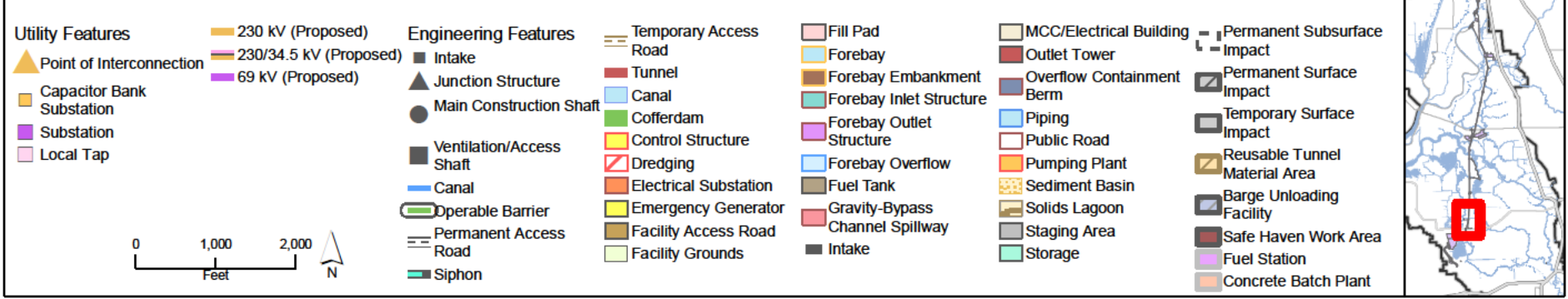
Sources: Plan Area, SAIC 2010, DWR DCE Engineering BTF (rev 1e), NAIP 2012

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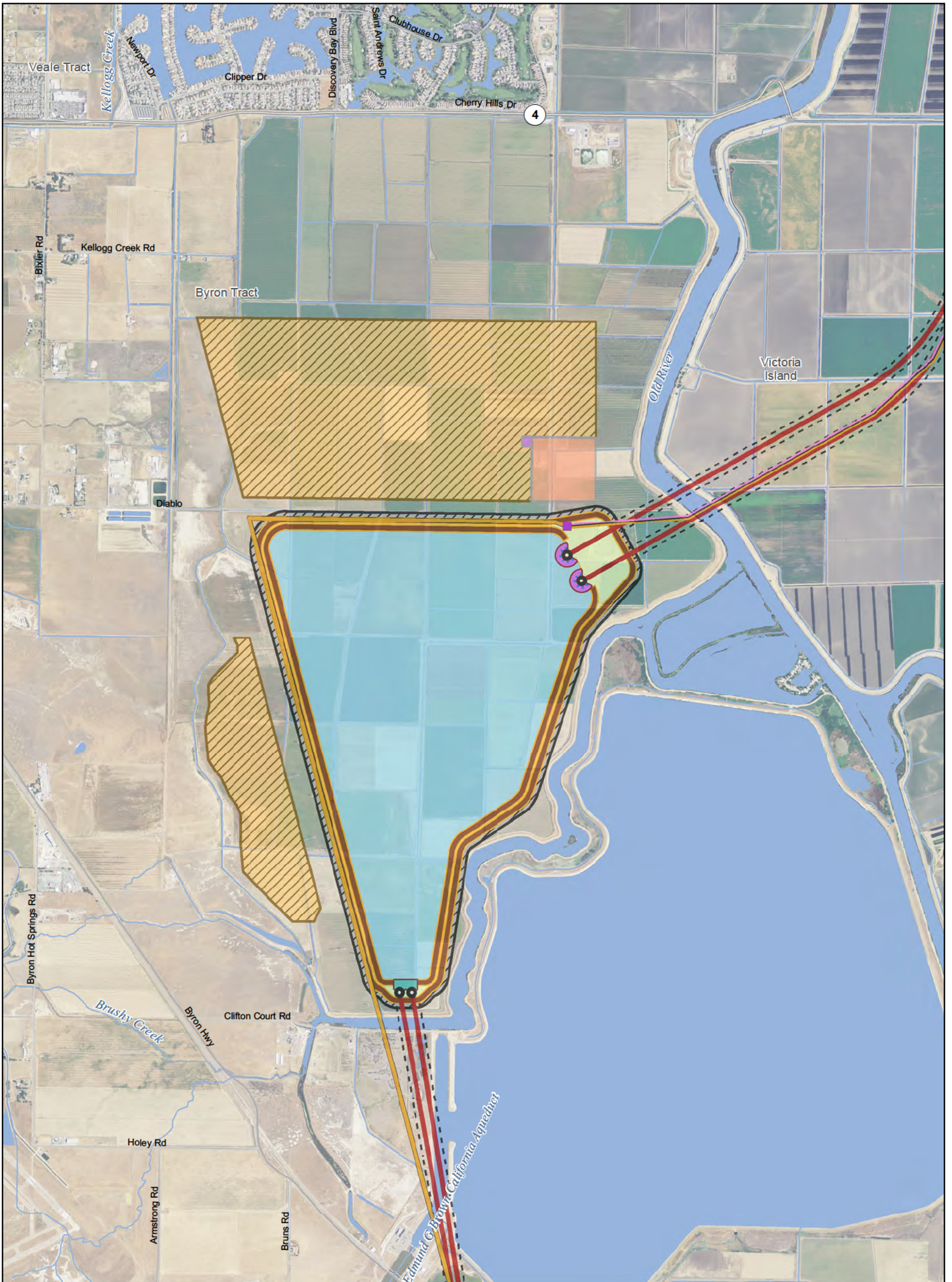


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Sources: Plan Area, SAIC 2010, DWR DCE Engineering BTF (rev 1e), NAIP 2012

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Byron Tract Forebay Option



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Utility Features Point of Interconnection Capacitor Bank Substation Substation Local Tap	230 kV (Proposed) 230/34.5 kV (Proposed) 69 kV (Proposed)	Engineering Features Intake Junction Structure Main Construction Shaft Ventilation/Access Shaft Canal Operable Barrier Permanent Access Road Siphon	Temporary Access Road Tunnel Canal Cofferdam Control Structure Dredging Electrical Substation Emergency Generator Facility Access Road Facility Grounds	Fill Pad Forebay Forebay Embankment Forebay Inlet Structure Forebay Outlet Structure Forebay Overflow Fuel Tank Gravity-Bypass Channel Spillway Intake	MCC/Electrical Building Outlet Tower Overflow Containment Berm Piping Public Road Pumping Plant Sediment Basin Solids Lagoon Staging Area Storage	Permanent Subsurface Impact Permanent Surface Impact Temporary Surface Impact Reusable Tunnel Material Area Barge Unloading Facility Safe Haven Work Area Fuel Station Concrete Batch Plant
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Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

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Utility Features Point of Interconnection Capacitor Bank Substation Substation Local Tap		Engineering Features Intake Junction Structure Main Construction Shaft Ventilation/Access Shaft Operable Barrier Permanent Access Road Siphon		Temporary Access Road Tunnel Canal Cofferdam Control Structure Dredging Electrical Substation Emergency Generator Facility Access Road Facility Grounds		Fill Pad Forebay Forebay Embankment Forebay Inlet Structure Forebay Outlet Structure Forebay Overflow Fuel Tank Gravity-Bypass Channel Spillway Intake		MCC/Electrical Building Outlet Tower Overflow Containment Berm Piping Pumping Plant Sediment Basin Solids Lagoon Staging Area Storage		Permanent Subsurface Impact Permanent Surface Impact Temporary Surface Impact Reusable Tunnel Material Area Barge Unloading Facility Safe Haven Work Area Fuel Station Concrete Batch Plant	
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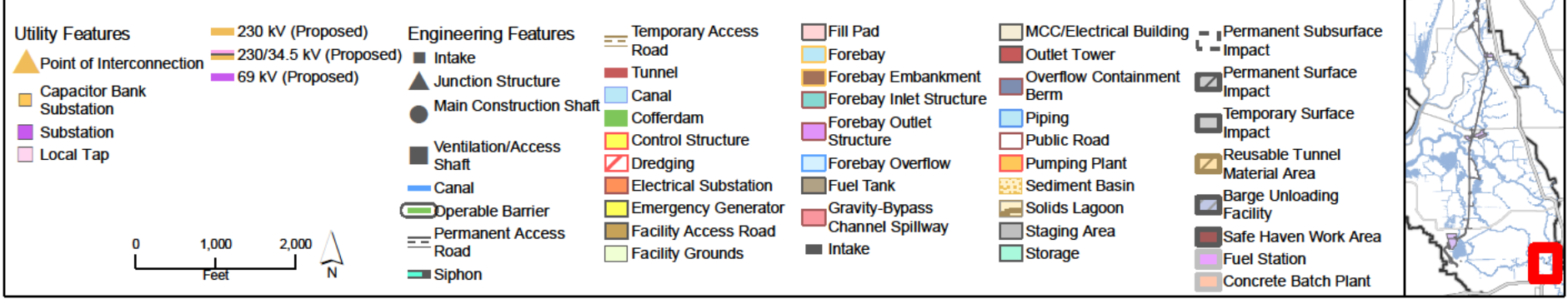
Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

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Byron Tract Forebay Option

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Sources: Plan Area, SAIC 2010; DWR DCE Engineering BTF (rev 1e); NAIP 2012

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