

Appendix 3.8-A
Water Bodies Crossed by
Project Alternatives

Table 3.8-A
 Water Bodies Crossed by Fresno to Bakersfield Section Alternatives

Water Body ^a	Type ^b	Alternative(s)	Approximate Crossing Width ^c (feet)	Crossing Method ^d
Fresno Colony Canal	C	BNSF Alternative	50	Piped conveyance (realigned)
North Central Canal	C	BNSF Alternative	50	Box culvert
Central Canal	C	BNSF Alternative	100	Culvert
American Colony Canal	C	Fresno Works–Fresno HMF	<50	Culvert or avoidance
Washington Colony Canal	C	BNSF Alternative, Fresno Works–Fresno HMF	<50	Box culvert
North Branch of Washington Colony Canal	C	Fresno Works–Fresno HMF	<50	Culvert or avoidance
South Branch of Washington Colony Canal	C	Fresno Works–Fresno HMF	<50	Culvert or avoidance
North Branch Oleander Canal	C	BNSF Alternative, Fresno Works–Fresno HMF	<50	Piped conveyance (realigned)
Wristen Canal	C	BNSF Alternative	<50	Box culvert (realigned)
Harlan Stevens Ditch	C	BNSF Alternative	<50	Box culvert
Davis Ditch	C	BNSF Alternative	<50	Box culvert
Elkhorn Ditch	C	BNSF Alternative	<50	Box culvert (realigned)
Crosscut Waste	C	BNSF Alternative	<50	Box culvert (realigned)
Cole Slough	I	BNSF Alternative	345	Steel truss structure
Dutch John Cut	I	BNSF Alternative	700	Steel truss structures
Liberty Ditch	C	Hanford West Bypass alternatives	<50	Box culvert
Murphy Slough	C	Hanford West Bypass alternatives	110	Aerial structure
"A" Canal	C	Hanford West Bypass alternatives	<50	Aerial structure (realigned)
Grant Canal	C	Hanford West Bypass alternatives	<50	Aerial structure

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Water Body ^a	Type ^b	Alternative(s)	Approximate Crossing Width ^c (feet)	Crossing Method ^d
Kings River	I	BNSF Alternative, Hanford West Bypass alternatives	230 to 640	Aerial structure or steel truss structure
Riverside Ditch	C	BNSF Alternative, Hanford West Bypass alternatives	<50 to 75	Box culvert
Peoples Ditch	C	BNSF Alternative	<50	Box culvert
East Branch of Peoples Ditch	C	BNSF Alternative	125	Box culvert (realigned)
Settlers Ditch	C	BNSF Alternative, Kings County–Hanford HMF site	<50	Aerial structure, culvert, or avoidance (realigned)
Hardwick Ditch	C	Hanford West Bypass alternatives	<50	Box culvert
Bakker Ditch	C	Hanford West Bypass alternatives	<50	Box culvert
Last Chance Ditch (West Main)	C	Hanford West Bypass alternatives	75	Box culvert (realigned)
Blowers Ditch	C	Hanford West Bypass alternatives	<50	Box culvert
Last Chance Ditch	C	Hanford West Bypass alternatives (road improvements)	<50	Box culvert
Mussel Slough	I	Hanford West Bypass alternatives	<50	Box culvert
Lone Oak Canal	C	Hanford West Bypass alternatives (road improvements)	<50	Box culvert or bridge
Peoples Ditch	C	Hanford West Bypass alternatives (road improvements and alignment crossing)	<50	Box culvert (realigned)
New Deal Canal/Peoples Ditch	C	Hanford West Bypass alternatives	75	Box culvert (realigned)
Lakeside Ditch	C	BNSF Alternative, Hanford West Bypass alternatives	<50	Box culvert (realigned)

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Water Body ^a	Type ^b	Alternative(s)	Approximate Crossing Width ^c (feet)	Crossing Method ^d
Melga Canal	C	BNSF Alternative, Hanford West Bypass alternatives	110 or 75	box culvert (realigned)
Canal near Guernsey Slough	C	Hanford West Bypass alternatives	<50	Box culvert
Arm of Guernsey Slough	I	BNSF Alternative	270	Culvert
East Branch Lakeside Ditch	C	BNSF Alternative, Hanford West Bypass alternatives	<50	Box culvert
Cross Creek	I	BNSF Alternative, Hanford West Bypass alternatives	285 to 320	Steel truss structure
West Branch Lakeland Canal	C	BNSF Alternative, Corcoran Elevated, Corcoran Bypass	50	Aerial structure and/or box culvert
North Corcoran Ditch	C	Corcoran Elevated	<50	Box culvert (realigned)
Sweet Canal	C	BNSF Alternative, Corcoran Elevated, Corcoran Bypass	60 to 120	Bridge (realigned)
AT and SF Ax Canal	C	Corcoran Bypass	<50	Box culvert
Tule River	I	BNSF Alternative, Corcoran Elevated, Corcoran Bypass	240	Bridge or aerial structure
Taylor Canal	C	BNSF Alternative	<50	Box culvert (realigned)
Lakeland Canal/Homeland Canal	C	BNSF Alternative	<50	Box culvert and/or aerial structure (realigned)
Deer Creek	I	BNSF Alternative, Allensworth Bypass	90	Aerial structure
County Line Creek North	I	BNSF Alternative	100	Bridge
County Line Creek South	I	BNSF Alternative	100	Bridge
Poso Creek	I	BNSF Alternative, Allensworth Bypass, and road crossing	150 to 280	Bridge or aerial structure
Arvin Edison Canal	C	BNSF Alternative	<50	Aerial structure

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Water Body ^a	Type ^b	Alternative(s)	Approximate Crossing Width ^c (feet)	Crossing Method ^d
Friant-Kern Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	50	Aerial structure (realigned)
Cross Valley Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	<50 to 75	Aerial structure (realigned)
Kern River ^e	P	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	540 to 720	Aerial structure and steel truss structure
Carrier Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	80	Aerial structure (realigned)
Stine Canal	C	Bakersfield South	60	Aerial structure (realigned)
Kern Island Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	60	Aerial structure
East Side Canal	C	BNSF Alternative, Bakersfield South, Bakersfield Hybrid	<50	Aerial structure and box culvert (realigned)

Notes:

^a Features identified from review of U.S. Geological Survey topographic maps and aerial photographs. Unnamed irrigation canals and distribution pipelines are also crossed by the alternative alignments; these features are not listed in this table.

^b Type: B = drainage or recharge basin, C = irrigation canal, I = intermittent, P = perennial.

^c Crossing widths subject to change once HST alternative alignments are finalized.

^d Based on 15% Conceptual Design. Where water bodies are crossed on fill (earthworks), culverts have been assumed to be the crossing method. Crossing method is subject to change as design progresses.

^e HST alternatives do not cross perpendicularly to the Kern River; therefore, approximate crossing width is greater than the perpendicular width of the Kern River.

HST = high-speed train