

Site Plan—Lake Repair Project

PROJECT ELEMENT DESCRIPTIONS

A	Lake 4 Northwest Embankment and Emergency Spillway -Breach repair with clay core -Riprap-lined spillway directs flood flows into Lake 4
B	Lake 3 Return Channel to South Branch Ditch -Existing channel, no repair needed -Conveys flows from Lake 3 to South Branch if necessary under normal conditions
C	Lake 4 Inlet Repairs -Embankment repair -Reconstruct run-down from South Branch diversion on repaired embankment
D	Lake 4 Sediment Removal Area -Remove large volume of sediment in bottom of Lake 4
E	Lake 4 Emergency Spillway -Cut/fill to create emergency spillway -Construct access road and cut-off wall on crest to outlet
F	Lake 4 Dam /Eastern Embankment -Reconstruct embankment with toe drain
G	Lake 4 Outlet Structure -Demo/remove existing outlet structure -Install new outlet (two towers with pipeline in between)
L-1	Clough & True Ditch Disposal Area (PW 1198) -Place fill material to restore function of ditch
L-2	West Lake Fill Area -Place up to 152,000 CY in bottom of reservoir (dead storage)
L-3/ WL	West Lake Embankment Repair (PW 1196) -Restore dam/embankment with clay core & outlet to A-Frame -Add emergency spillway and siphon for ditches -Reconstruct South Branch light-vehicle crossing (box culvert)
L-4/ AF	A-Frame Pond Outlet Repair (PW 1196) -Construct outlet, including box culvert to creek -Restore scour area including 61st St.
L-5	Ramey Fill Area -Utilize sediment as fill to restore scoured upland area
L-6	Fill Exported to County Yard for Future Projects -Haul fill via 61st Street (Haul distance = 4.0 mi.)
OP-1	Outlet Pipeline—Relined -Slip line 2,100 LF of existing pipeline (purple dashed line) -Install 4 new manholes for pipeline access (orange dots)
OP-2	Outlet Pipeline— New Segment -300 LF of new pipeline
OP-3	Outlet Pipeline—Measurement Structure -In-ground vault with flume measurement (shown orange) -Pipeline discharges into A-Frame Pond outlet near creek
OP-4	Outlet Pipeline -Staging and Refueling Areas

