

# Analysis/Subject Matter (continued)

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## 7. Project Schedule

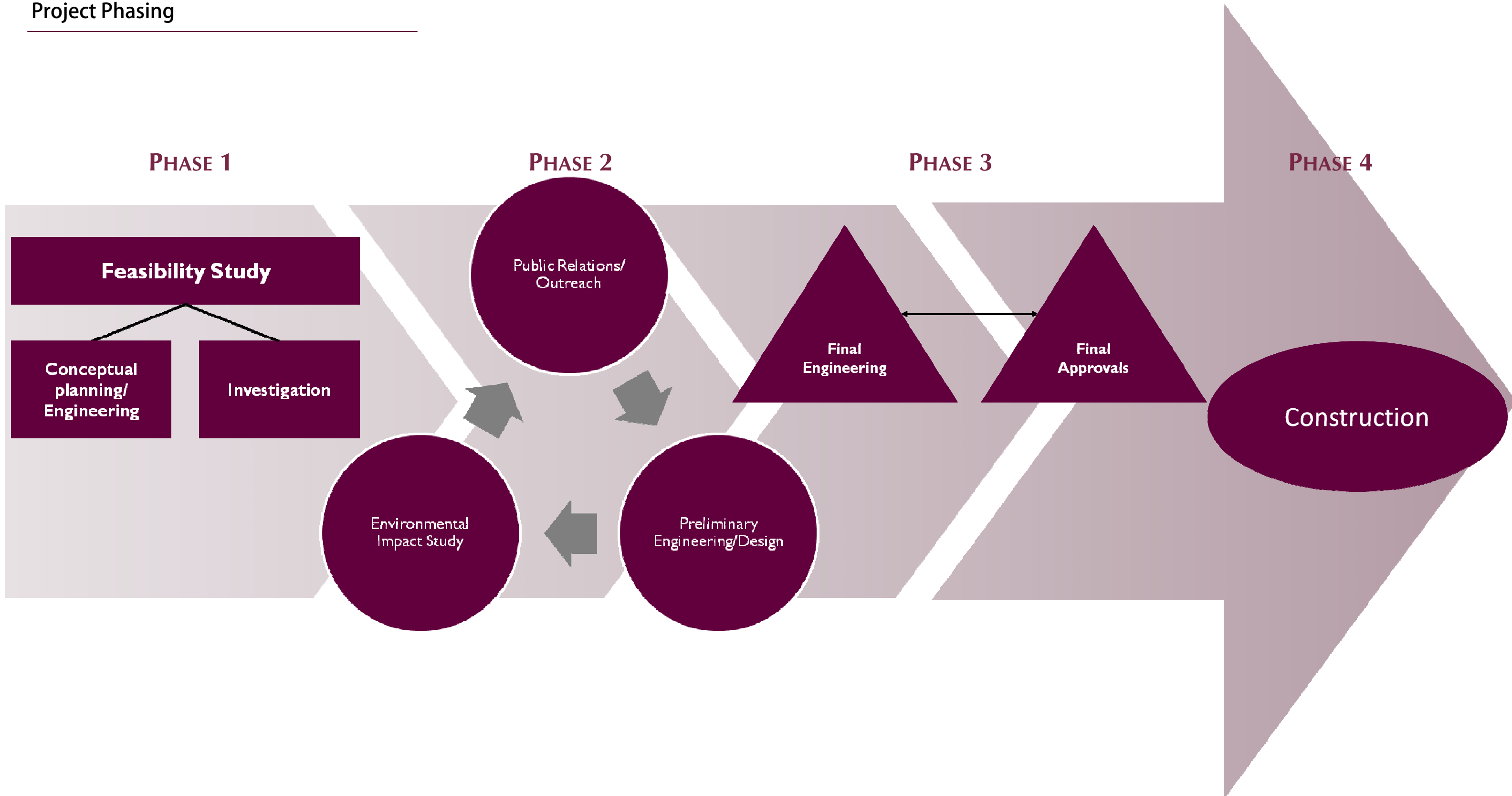
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The proposed project schedule would at a bare minimum include the following:

1. Completion of Phase 1 Study (complete early 2012)
2. Completion of EIS related activities along with 30%-40% level design (complete end 2014)
3. Completion of final design (complete end of 2015)
4. Completion of Land Acquisition and final permits (complete end of 2017)

There are many items that could delay this schedule, the most likely of which are permit issues and lawsuits over land and resources.

# Project Phasing



# Analysis/Subject Matter (continued)

## 8. Estimated Cost Analysis

The following costs are a Class V (screening level estimate) construction cost estimate for both the gated and ungated dam scenarios. The following estimates also include costs for the required real estate, bridge demolition/raising/reconstruction, and methods to address impacts on existing structures such as the municipal airport and the water treatment plant. Note that this estimate does not include the cost of remediation or mitigation for environmental/archeological/social concerns that are discovered during this preliminary study.

### OPTION 1 - 700' RCC CORE w/CIP VENEER CRESTED SPILLWAY @ EL 870

ITEM	DESCRIPTION	QTY	UNIT	COST/UNIT	EST. COST
1	Demolition Activities - Dam footprint plus 500' East and West	1	Each	\$2,414,556	\$2,414,556
2	Site Preparation - Clear, Strip, Prepare Subgrade, Etc.	1	Each	\$862,000	\$862,000
3	River Bypass	1	Each	\$1,346,000	\$1,346,000
4	Earthwork, Cut/Fill, Import	1	Each	\$6,547,313	\$6,547,313
5	Armoring, Wave Protection	1	Each	\$341,045	\$341,045
6	Spillway	1	Each	\$44,831,876	\$44,831,876
7	Base/Underdrain/Filter System	1	Each	\$110,027	\$110,027
8	Intake Structure	1	Each	\$1,133,200	\$1,133,200
9	Utilities	1	Each	\$750,000	\$750,000
10	Site Restoration	1	Each	\$144,167	\$144,167
<b>Preliminary Construction Estimate - 2011 Dollars</b>					<b>\$58,480,183</b>
	Bridge Replacement/Demo/Reconstruction	1	Lump Sum	\$26,500,000	\$26,500,000
	Real Estate Cost	1	Lump Sum	\$86,500,000	\$86,500,000
Total - 2011 Dollars					\$171,480,183

### OPTION 2 - 1100' RCC CORE w/CIP VENEER CRESTED SPILLWAY @ EL 875

ITEM	DESCRIPTION	QTY	UNIT	COST/UNIT	EST. COST
1	Demolition Activities - Dam footprint plus 500' East and West	1	Each	\$2,414,556	\$2,414,556
2	Site Preparation - Clear, Strip, Prepare Subgrade, Etc.	1	Each	\$862,000	\$862,000
3	River Bypass	1	Each	\$1,346,000	\$1,346,000
4	Earthwork, Cut/Fill, Import	1	Each	\$5,430,101	\$5,430,101
5	Armoring, Wave Protection	1	Each	\$313,287	\$313,287
6	Spillway	1	Each	\$63,336,637	\$63,336,637
7	Base/Underdrain/Filter System	1	Each	\$183,379	\$183,379
8	Intake Structure	1	Each	\$1,133,200	\$1,133,200
9	Utilities	1	Each	\$750,000	\$750,000
10	Site Restoration	1	Each	\$144,167	\$144,167
<b>Preliminary Construction Estimate - 2011 Dollars</b>					<b>\$75,913,326</b>
	Bridge Replacement/Demo/Reconstruction	1	Lump Sum	\$26,500,000	\$26,500,000
	Real Estate Cost	1	Lump Sum	\$86,500,000	\$86,500,000
Total - 2011 Dollars					\$188,913,326



# Analysis/Subject Matter (continued)

## OPTION 3 - 450' OPEN (534' SPAN) RCC CORE W/CIP VENEER GATED SPILLWAY @ EL 860

ITEM	DESCRIPTION	QTY	UNIT	COST/UNIT	EST. COST
	Demolition Activities - Dam footprint plus 500' East and				
1	West	1	Each	\$2,414,556	\$2,414,556
2	Site Preparation - Clear, Strip, Prepare Subgrade, Etc.	1	Each	\$862,000	\$862,000
3	River Bypass	1	Each	\$1,346,000	\$1,346,000
4	Earthwork, Cut/Fill, Import	1	Each	\$7,017,241	\$7,017,241
5	Armoring, Wave Protection	1	Each	\$492,159	\$492,159
6	Spillway	1	Each	\$62,175,104	\$62,175,104
7	Base/Underdrain/Filter System	1	Each	\$83,935	\$83,935
8	Intake Structure	1	Each	\$1,133,200	\$1,133,200
9	Utilities	1	Each	\$750,000	\$750,000
10	Site Restoration	1	Each	\$144,167	\$144,167
				<b>Preliminary Construction Estimate - 2011 Dollars</b>	<b>\$76,418,362</b>
	Bridge Replacement/Demo/Reconstruction	1	Lump Sum	\$26,500,000	\$26,500,000
	Real Estate Cost	1	Lump Sum	\$86,500,000	\$86,500,000
				Total - 2011 Dollars	\$189,418,362

### SUMMARY TABLE

OPTION	TOTAL COST
1	\$171,480,183
2	\$188,913,326
3	\$189,418,362