VALUE ENGINEERING PROPOSAL

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DESCRIPTION Move Control House Off Lock Wall, Reduce Lock Wall Thickness

ORIGINAL DESIGN:

The existing design calls for control houses at each of the four corners of the lock wall 10-ft. from the end of each lock wall. The lock wall thickness at these locations is shown as 23 ft. versus a 10 ft. wall thickness on the other side of the end of the gate bay monolith (reference sections C, J, & D on Drawings Nos. 1, 2, & 3).

PROPOSED DESIGN:

Recommend placing the control house either on a cantilevered section or on the esplanade adjacent to the gate bay monolith. This will allow the reduction of the lock wall thickness in this area from 23 ft. to 18 ft.

ADVANTAGES:

1. Reduction in concrete placement.
2. Reduction in wall construction cost.

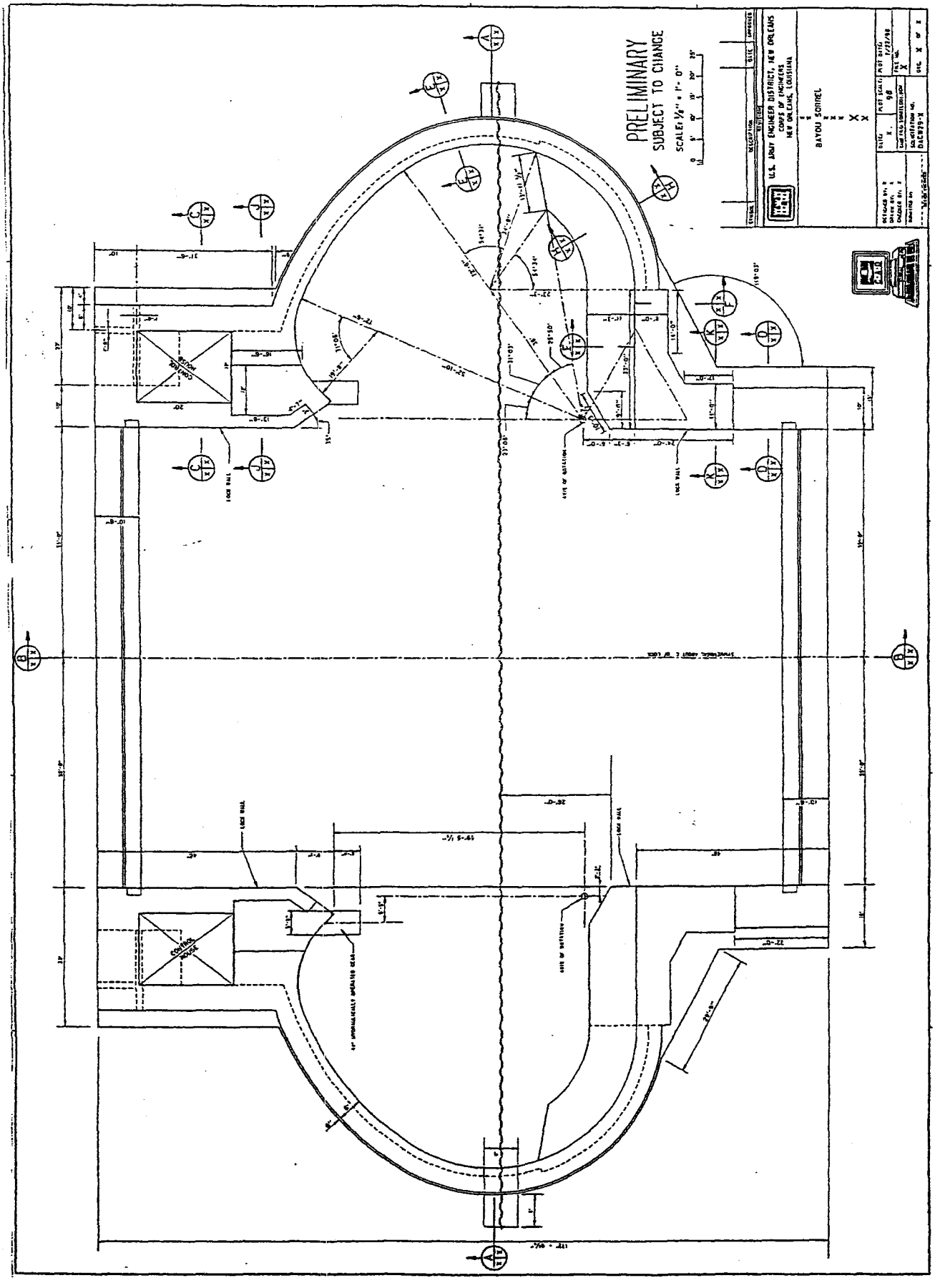
DISADVANTAGES:

None

JUSTIFICATION:

This proposal provides the same basic function as the existing design at a reduced cost. The location of the control house should not control the thickness of the lock wall. The wall section is recommended to be reduced to 18-ft. leaving room to install the machinery pit. However, this section could possibly be reduced even further as shown in section D from the end of the machinery pit to the end of the monolith. No savings were calculated for this additional recommended change.

DRAWING NO. 1


PRELIMINARY
SUBJECT TO CHANGE
SCALE: 1/8" = 1'-0"
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA
BAYOU SORREL
LOCK WALL
CONTROL HOUSE

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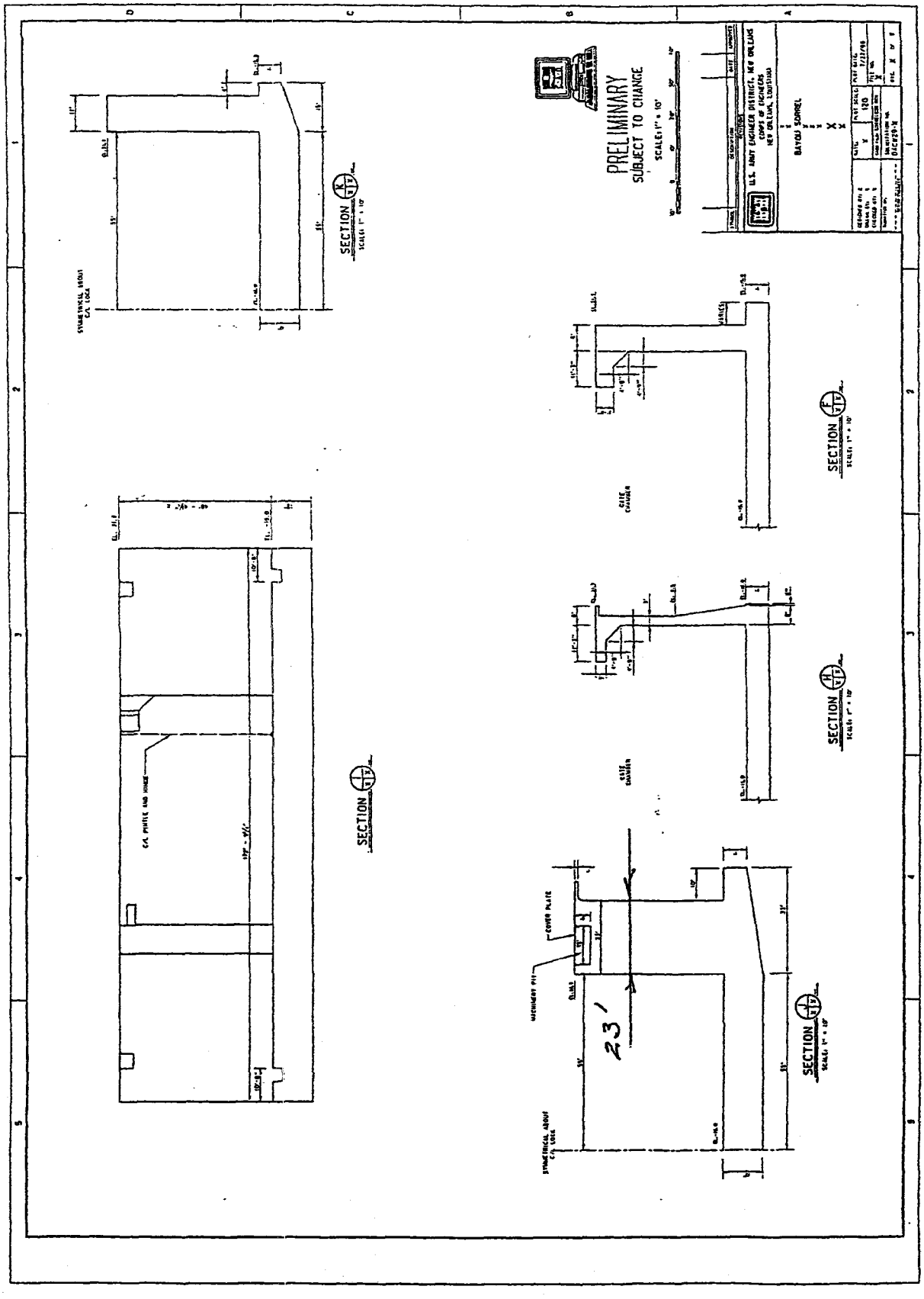
DRAWING NO. 2



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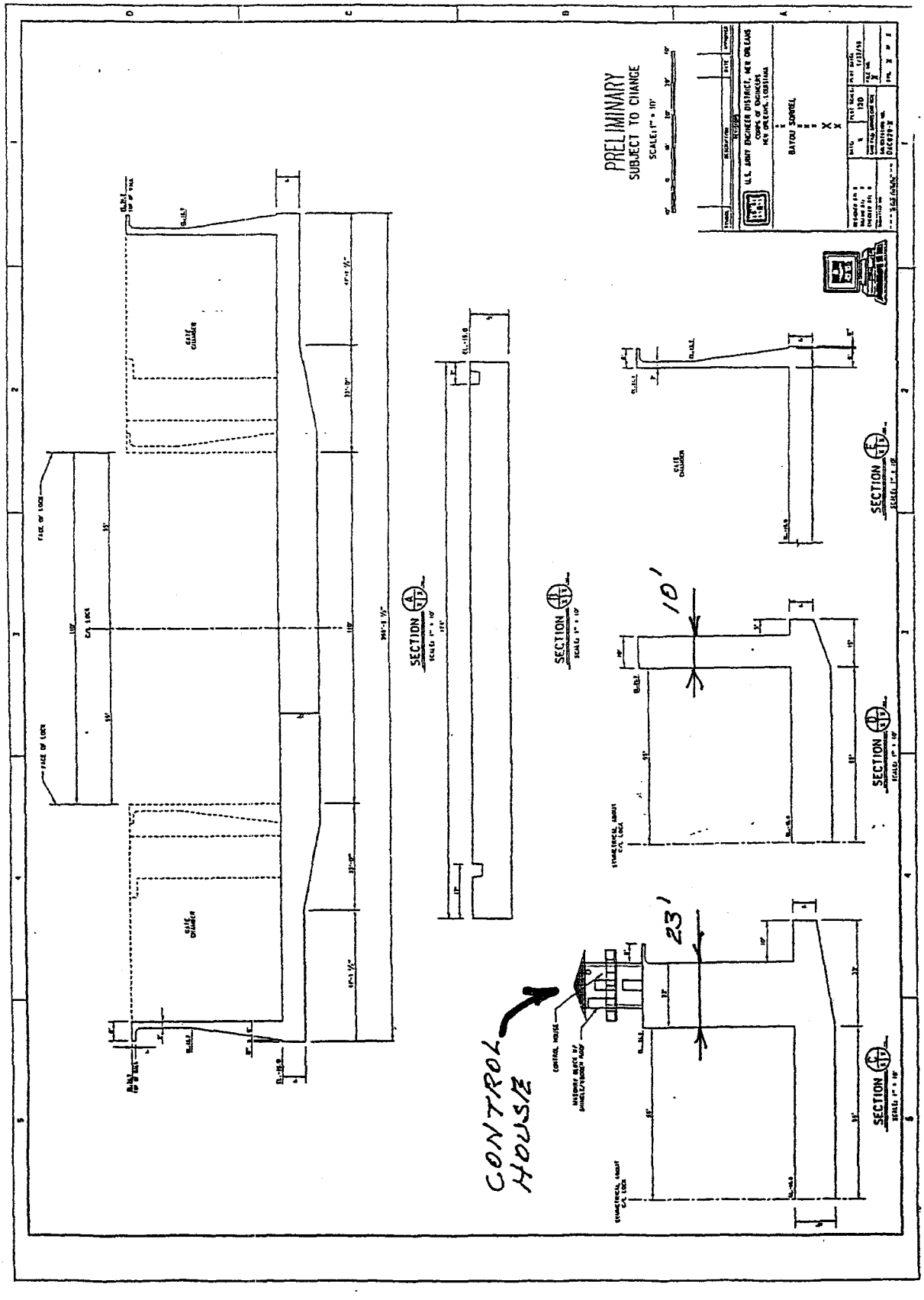
DRAWING NO. 3



COST ESTIMATE WORKSHEET

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DELETIONS

ITEM	UNITS	QUANTITY	UNIT COST	TOTAL
Gate Bay Wall Concrete	CY	1,435.60	$260.00	$373,256
		Total Deletions		$373,256

ADDITIONS

ITEM	UNITS	QUANTITY	UNIT COST	TOTAL
		Total Additions		
		Net Savings		$373,256
	*	Markups	25.00%	$93,314
		Total Savings		$466,570

* Markups include: Contingency; Escalation; Engineering/Design; and SIOH