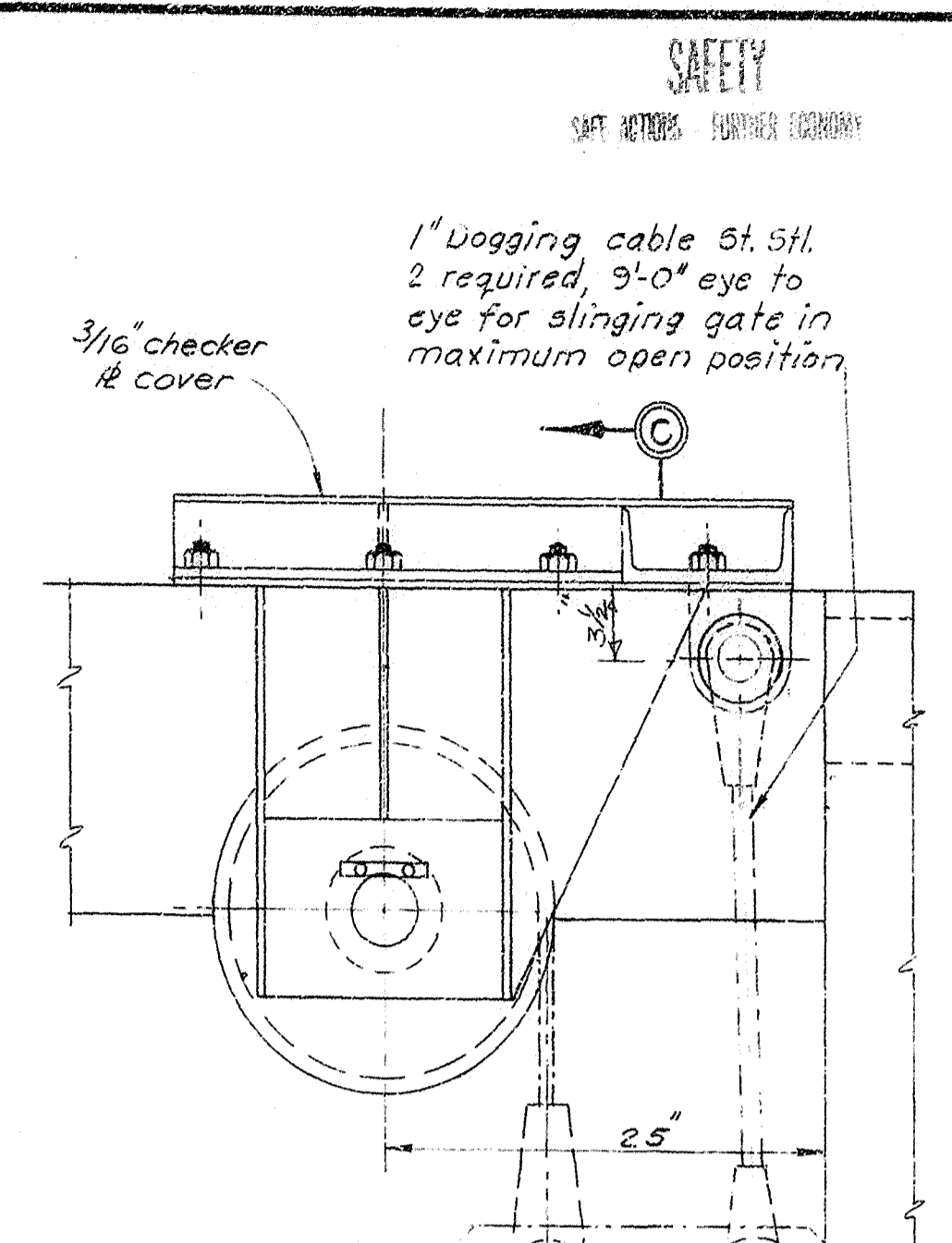
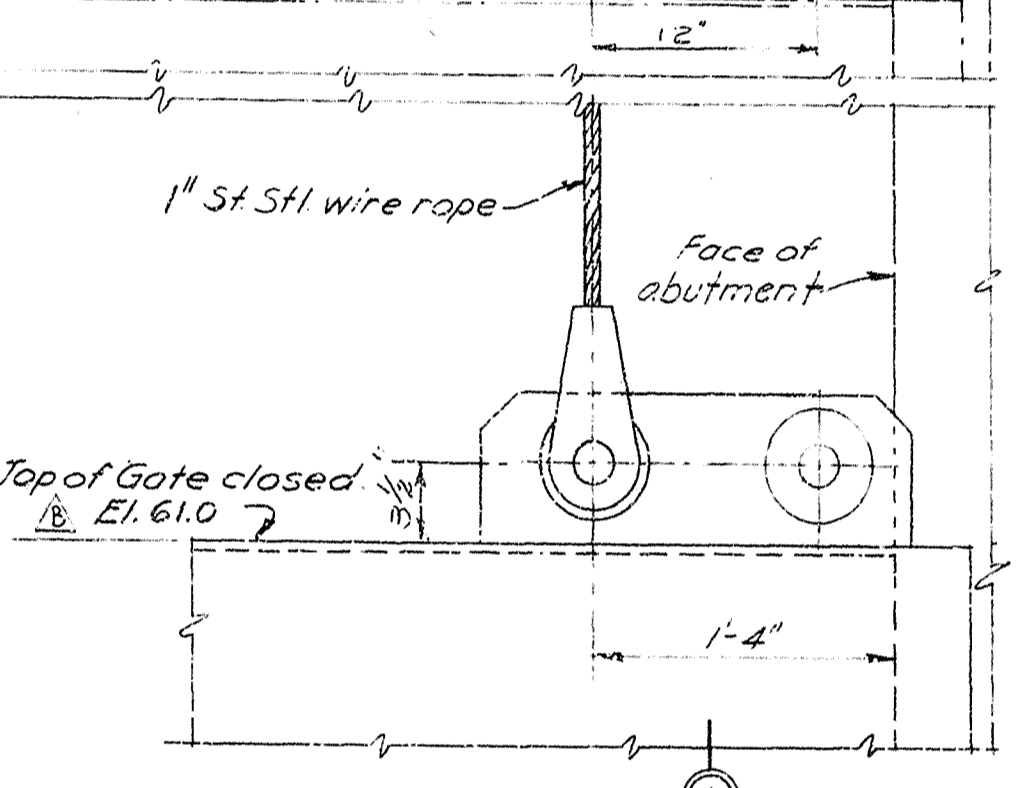


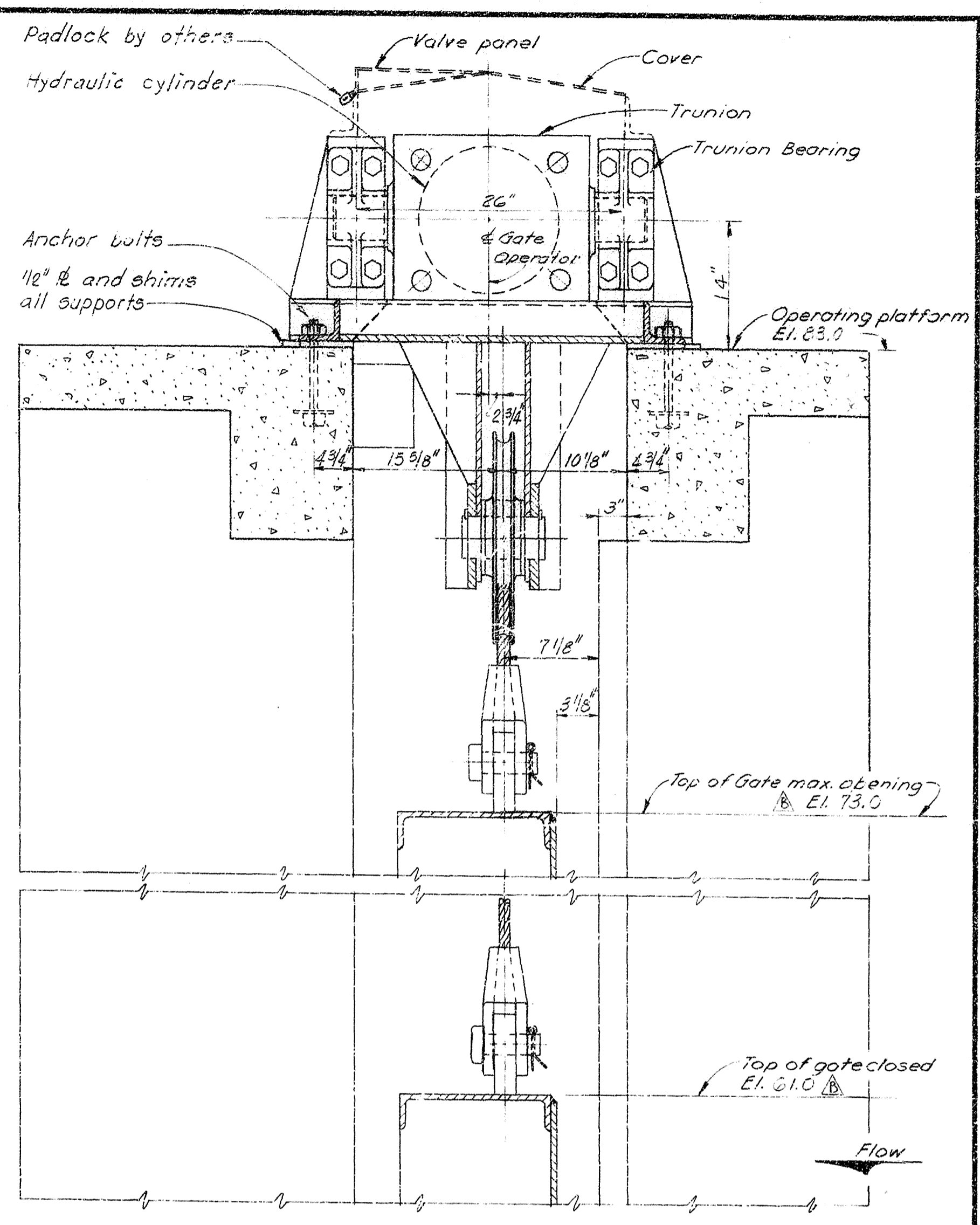
PLAN AT OPERATING PLATFORM (TYPICAL ALL GATES) (Hoist cover not shown)
NOT TO SCALE



Top of Gate Max. opening position
Showing daggling arrangement
El. 73.0

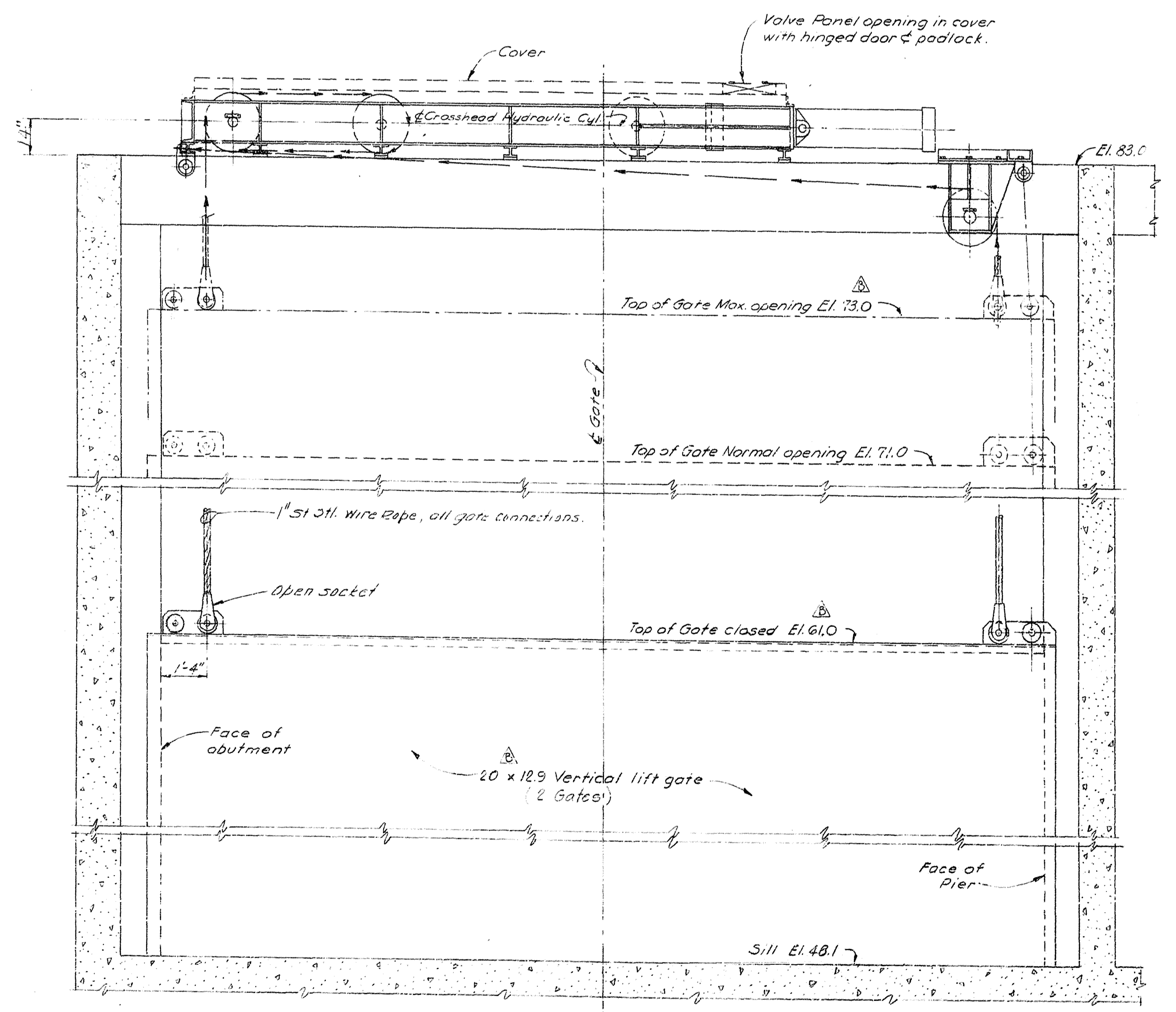


VIEW 'B-B'



SECTION 'C-C'

Note: Slide gates and handwheel operators not shown, see Sheet 34.2.



SECTION 'A-A'

- Notes:
- a. Estimated Gate weight 20,000 #
 - b. Estimated Hoist load 20,000 #
 - c. Design Hoist Cap 30,000 #
 - d. Gate Speed 6'/min. for individual operation.
 - Working Pressure of estimated hoist load 1,600 p.s.i.
 - By positioning of Control Valves Gate will be self lowering without the use of Power Unit.
 - For Hydraulic Circuitry see Sheet 40.5.

RECORD DRAWING NOTE
Shall be "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

AS BUILT

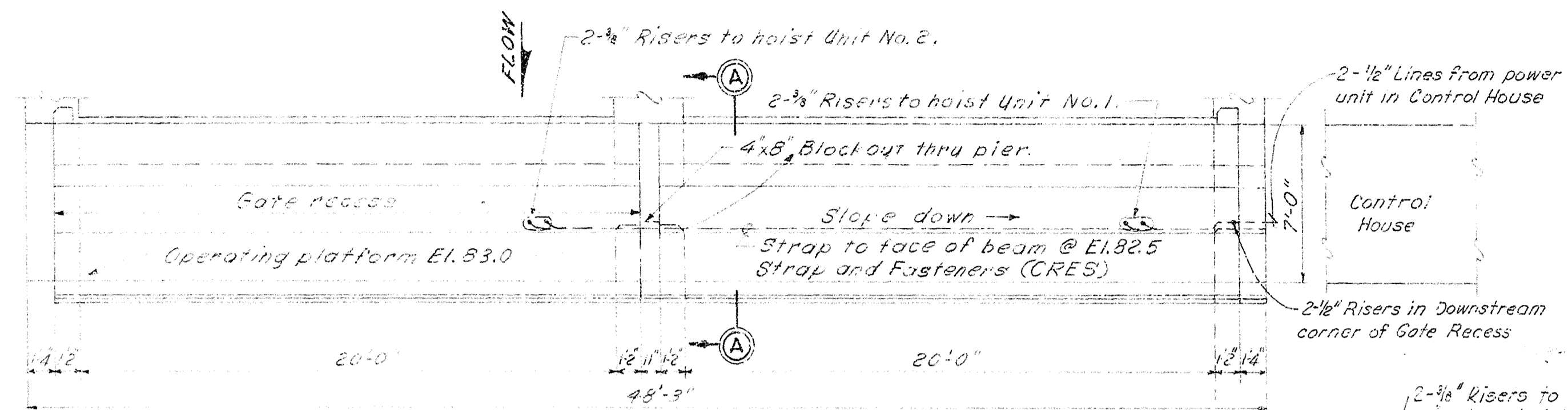
NO	SYM	ZONE	DESCRIPTION	DATE	APPROVED

U. S. ARMY ENGINEER DISTRICT, JACKSONVILLE
CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
FOUR RIVER BASIN, FLORIDA
MOORE BLUFF LEVEE AND SPILLWAY
SPILLWAY
VERTICAL LIFT GATE HOIST
GENERAL ARRANGEMENT

DATE: 25 JAN 1967
SCALE: AS SHOWN
SHEET 12 OF 120

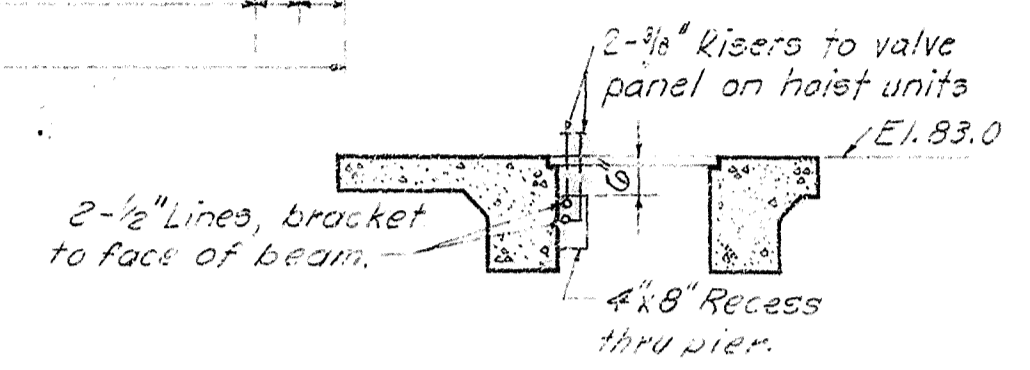
SAFETY ON THIS JOB
DEPENDS ON YOU

REVISIONS		DATE	APPROVED
1	A-1	2-2-67	ES
1	B-2	2-4-67	ES
1	C-1	2-10-67	ES

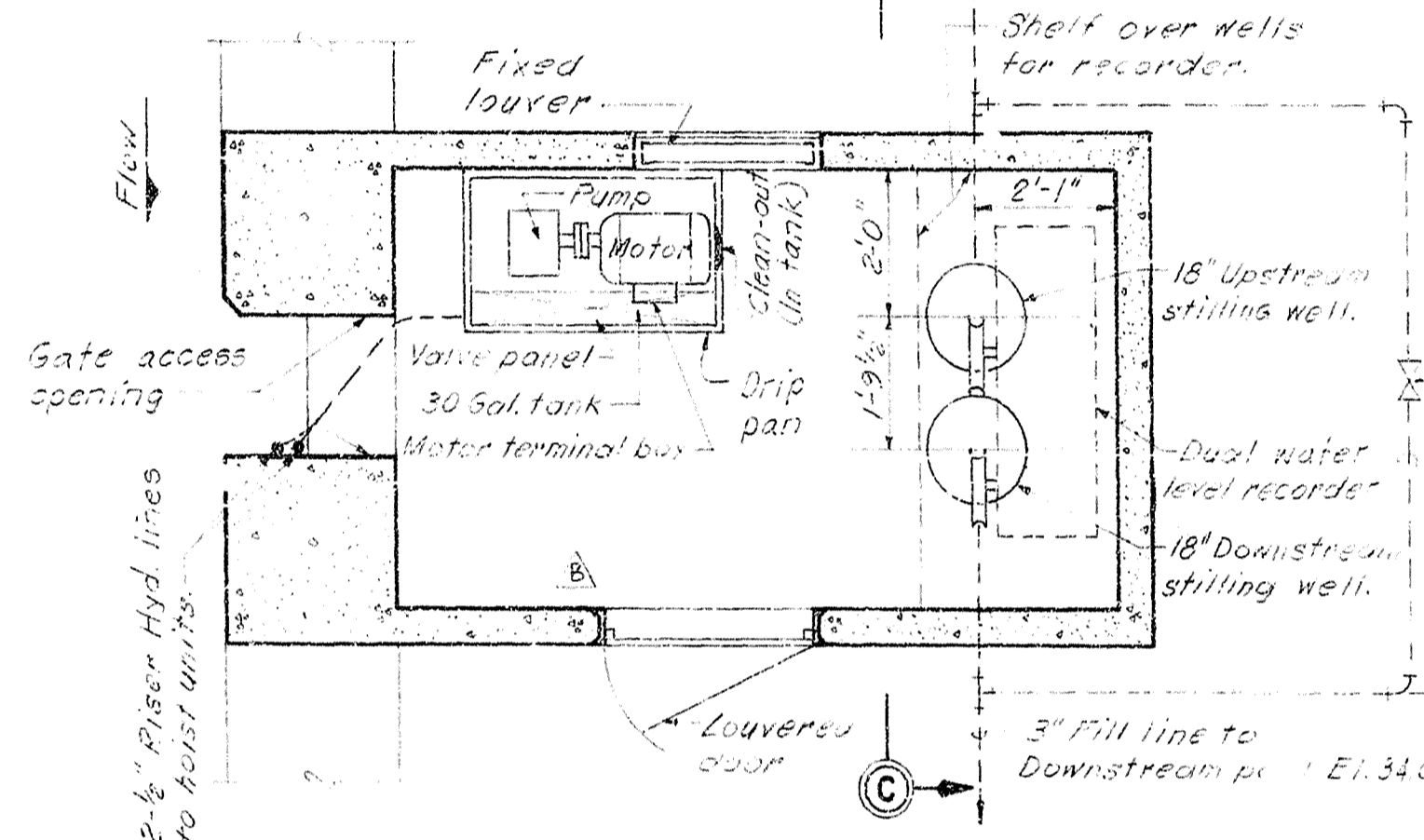


- NOTES:
- HYDRAULIC LINES TO BE SUPPORTED AT NOT MORE THAN 4'-0" INTERVALS USING GALV. OR CORROSION RESISTING STRAPS AND FASTENERS.
 - ALL PIPING 1/2" STAINLESS STEEL TUBING 0.035" WALL.

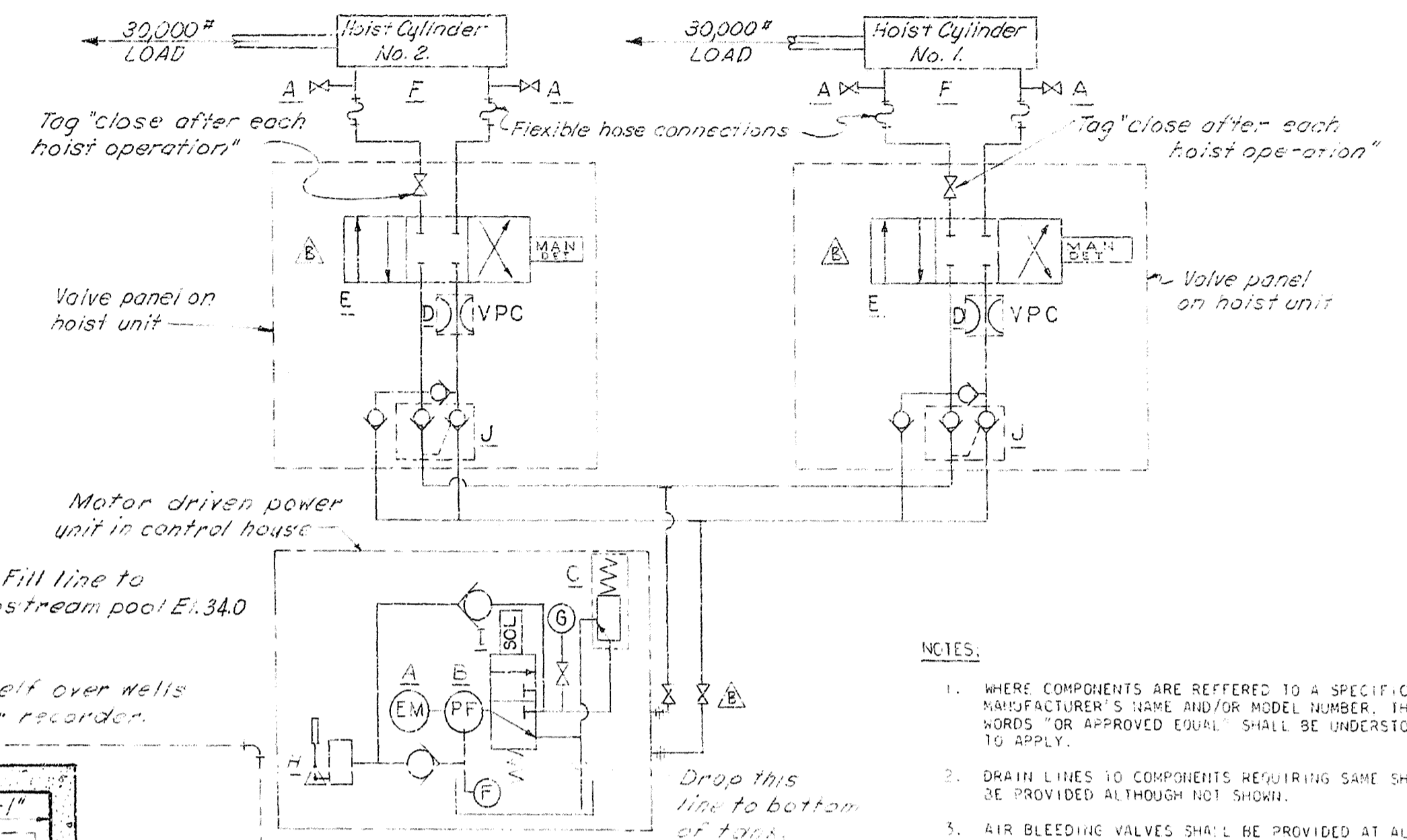
PLAN
HYDRAULIC PIPING AT SPILLWAY
NOT TO SCALE



SECTION A-A
SCALE: 1/2" = 1'-0"

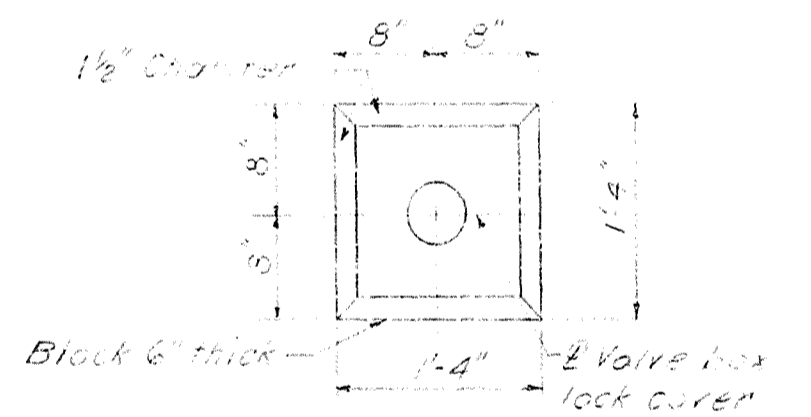


CONTROL HOUSE PLAN
SCALE: 1/2" = 1'-0"

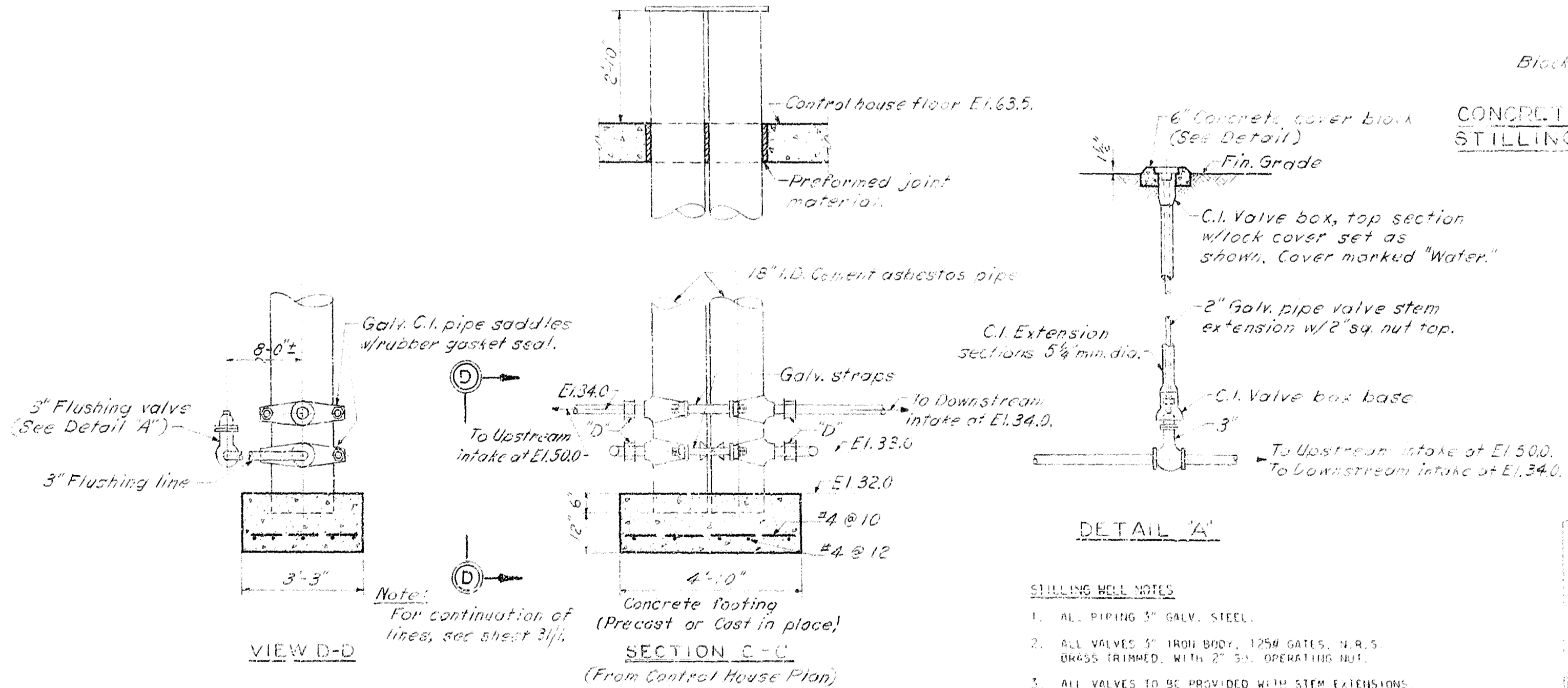


- NOTES:
- WHERE COMPONENTS ARE REFERRED TO A SPECIFIC MANUFACTURER'S NAME AND/OR MODEL NUMBER, THE WORDS OR APPROVED EQUAL SHALL BE UNDERSTOOD TO APPLY.
 - DRAIN LINES TO COMPONENTS REQUIRING SAME SHALL BE PROVIDED ALTHOUGH NOT SHOWN.
 - AIR BLEEDING VALVES SHALL BE PROVIDED AT ALL HIGH POINTS OF SYSTEM.
 - ALL PIPING STAINLESS STEEL TUBING 0.035" WALL THICKNESS.
- | ITEM | DESCRIPTION |
|------|--|
| A | MOTOR, 220 V., 1 PHASE. |
| B | HYDRAULIC PUMP, 2.57 G.P.M. @ 1600 P.S.I. |
| C | RELIEF VALVE 1600 P.S.I. (APPROX.) |
| D | FLOW CONTROL, ADJUST FOR 6"/MIN. INDIVIDUAL GATE SPEED APPROX. 0.57 G.P.M. |
| E | MANUAL DIRECTION CONTROL |
| F | HYDRAULIC CYLINDER, 8" BORE, 3 1/2" ROD, 75 INCH STROKE. |
| G | PRESSURE GAUGE 0-3000 P.S.I. |
| H | EMERGENCY HAND PUMP. |
| I | UNLOADING VALVE, SOLENOID OPERATED, TIME DELAYED. |
| J | DOUBLE PILOT CHECK LOCK VALVE. |

HOIST HYDRAULIC SYSTEM



CONCRETE COVER BLOCK FOR STILLING WELL VALVE BOXES

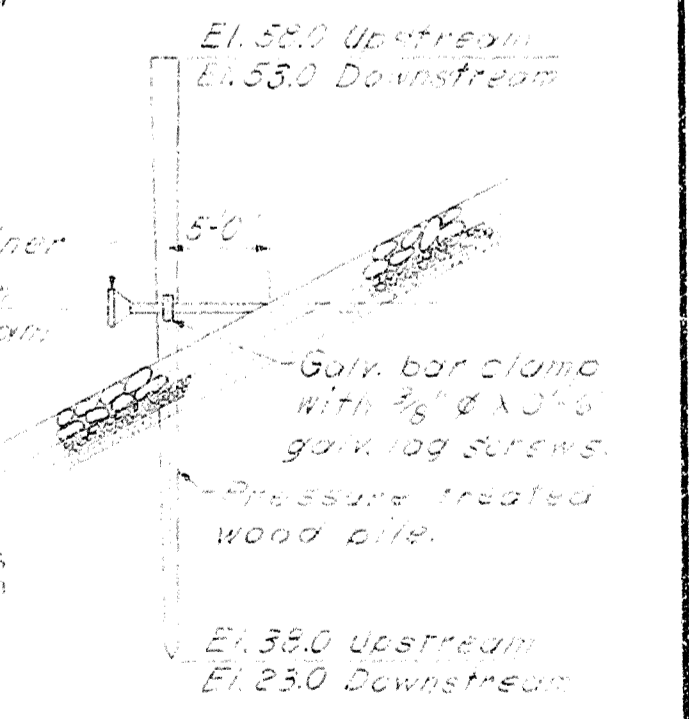


DETAILS OF STILLING WELLS
NOT TO SCALE

DETAIL 'A'

- STILLING WELL NOTES
- ALL PIPING 3" GALV. STEEL.
 - ALL VALVES 3" IRON BODY, 125# GATES, V.R.S. BRASS TRIMMED, WITH 2" ST. OPERATING NUT.
 - ALL VALVES TO BE PROVIDED WITH STEM EXTENSIONS, VALVE BOX BASE, EXTENSIONS, TOP SECTION AND LOCKING COVER, MARKED "WATER".
 - FURNISH ONE TEE WRENCH 36" LONG WITH SOCKET FOR 2" SQ. NUT.
 - "D" DESIGNATES DRESSER COUPLING.

NOTE:
STRAINER GRADING SHALL BE APPROXIMATELY 9" X 9" HINGED AND INSTALLED WITH HINGES AT TOP. STRAINER FACE TO BE PARALLEL TO CHANNEL & STRAINER SHALL BE CAST IRON AND GALVANIZED.



PILE SUPPORT
Locate Upstream & Downstream as shown on sheet.

RECORD OF BIDDING NOTE
AS BUILT

U.S. ARMY ENGINEER DISTRICT, JACKSONVILLE CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	
FOUR RIVER BASINS, FLORIDA MOSS BLUFF LOCK AND SPILLWAY SPILLWAY VERTICAL LIFTGATE HOIST CONTROL HOUSE, STILLING WELLS AND HYDRAULIC SYSTEM	
DATE: 27 JAN 1967	BY: [Signature]
SCALE: AS SHOWN	SHEET 125 OF 126

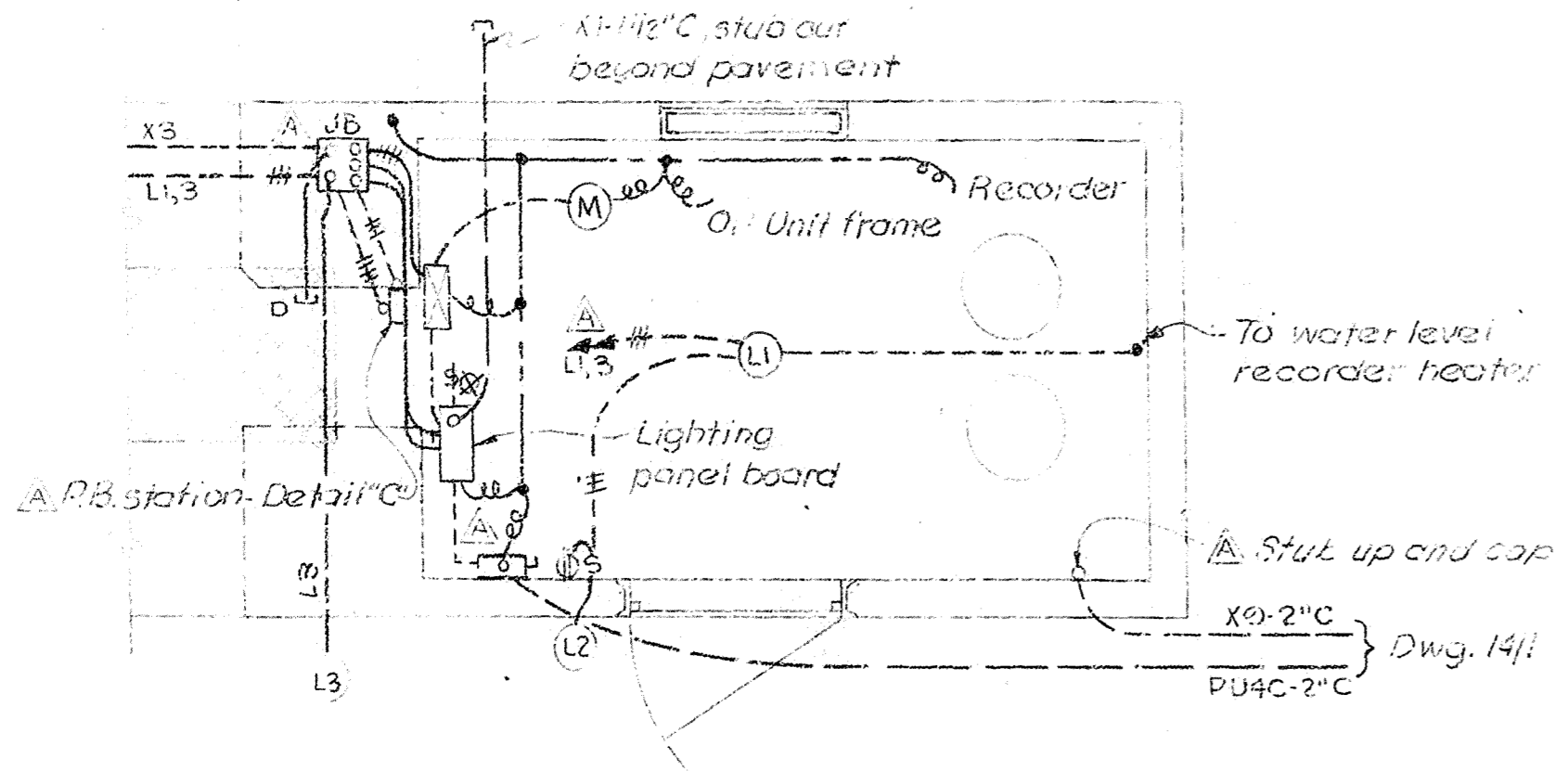
SAFETY ON THIS JOB
DEPENDS ON YOU

NO.		SYM	ZONE	DESCRIPTION	DATE	APPROVED
22	Δ			REVISED TO CONFORM TO AMEND. No. 2	2-2-67	

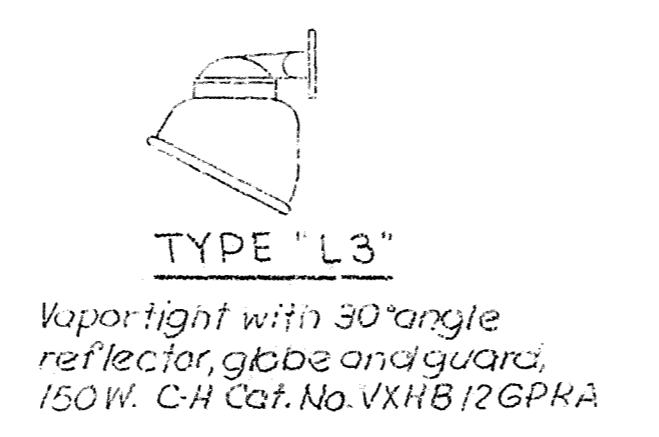
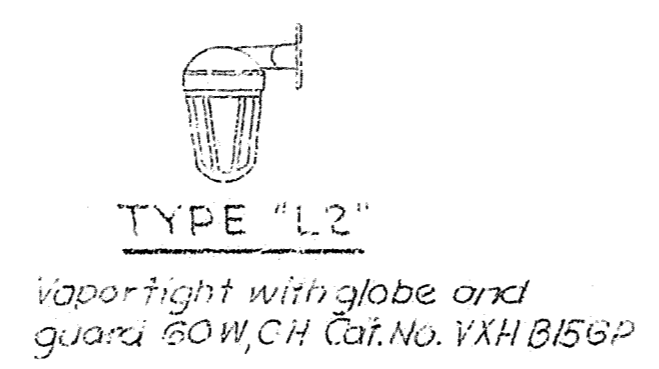
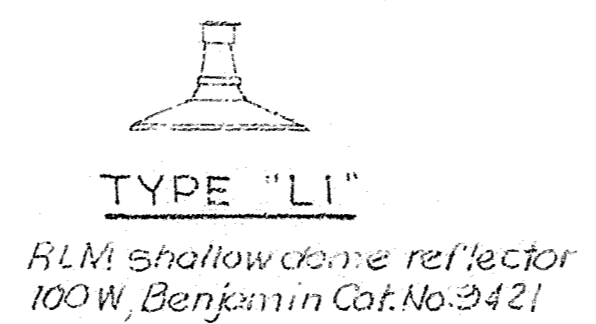
NOTES:

- CONDUIT SHALL BE 3/4" INCH WITH 2 NO. 12 AWG WIRES UNLESS NOTED OTHERWISE ON THE CONDUIT PLANS OR SCHEMATIC WIRING DIAGRAM. SPARE CONDUIT, DESIGNATED BY AN "X" PREFIX, SHALL BE 1 1/2" INCH CONDUIT UNLESS NOTED OTHERWISE.
- JUNCTION BOXES ON THE SPILLWAY STRUCTURE OPERATING PLATFORM SHALL BE 10" W X 10" L X 6" D, BE OF CAST IRON NEMA II CONSTRUCTION WITH HOT DIP GALVANIZED FINISH, BE PROVIDED WITH SLIP HOLES IN THE BOTTOM AND CONDUIT BOSSES WITH AT LEAST 5 FULL THREADS ON THE SIDES AS REQUIRED FOR THE CONDUITS OR CONDUIT EXPANSION FITTINGS AS SHOWN, BE PROVIDED WITH MOUNTING LUGS, BE INSTALLED ON "M" MASTIC, AND BE SIMILAR AND/OR EQUAL TO Q2 TYPE "YH" CAST IRON JUNCTION BOX.
- EXPOSED CONDUIT RUNS ON THE OPERATING PLATFORM SHALL BE PROVIDED AT ONE END WITH A CONDUIT EXPANSION FITTING SIMILAR AND/OR EQUAL TO Q2 TYPE "EXE".
- THE SPILLWAY STRUCTURE GROUNDING SYSTEM SHALL BE TIED TO THE SHEET STEEL PIPE WINGWALLS.
- THE PUSHBUTTON STATION ON THE OPERATING PLATFORM SHALL CONSIST OF A NEMA II P.B. UNIT WITH START-STOP PUSHBUTTONS AND A MOTOR RUNNING INDICATING LIGHT. THE P.B. UNIT SHALL BE INSTALLED ON A 6" X 8" X 1 1/2" CHANNEL AND SHALL BE PROVIDED WITH A VANDALISM PROTECTION ENCLOSURE. THE CHANNEL SHALL BE WELDED TO A SUITABLE BASE PLATE WHICH SHALL BE SECURED TO THE STRUCTURE WITH ANCHOR BOLTS. THE PROTECTIVE ENCLOSURE SHALL CONSIST OF WELDED 1/4" GAGE (MIN.) SHEET STEEL CONSTRUCTION, SHALL BE PROVIDED WITH A HINGED COVER WITH NON-REMOVABLE HINGE PINS, AND SHALL BE PROVIDED WITH A HEAVY DUTY PADLOCK HASP. METALLIC SURFACES SHALL BE PROVIDED WITH A PROTECTIVE FINISH IN CONFORMANCE WITH THE REQUIREMENTS OF THE SECTION "PAINTING" OF THE SPECIFICATIONS. A PHOTO-ELECTRIC CONTROL RELAY SHALL BE INSTALLED ON A 1 1/4" PIPE STANCHION ADJACENT TO THE CHANNEL.

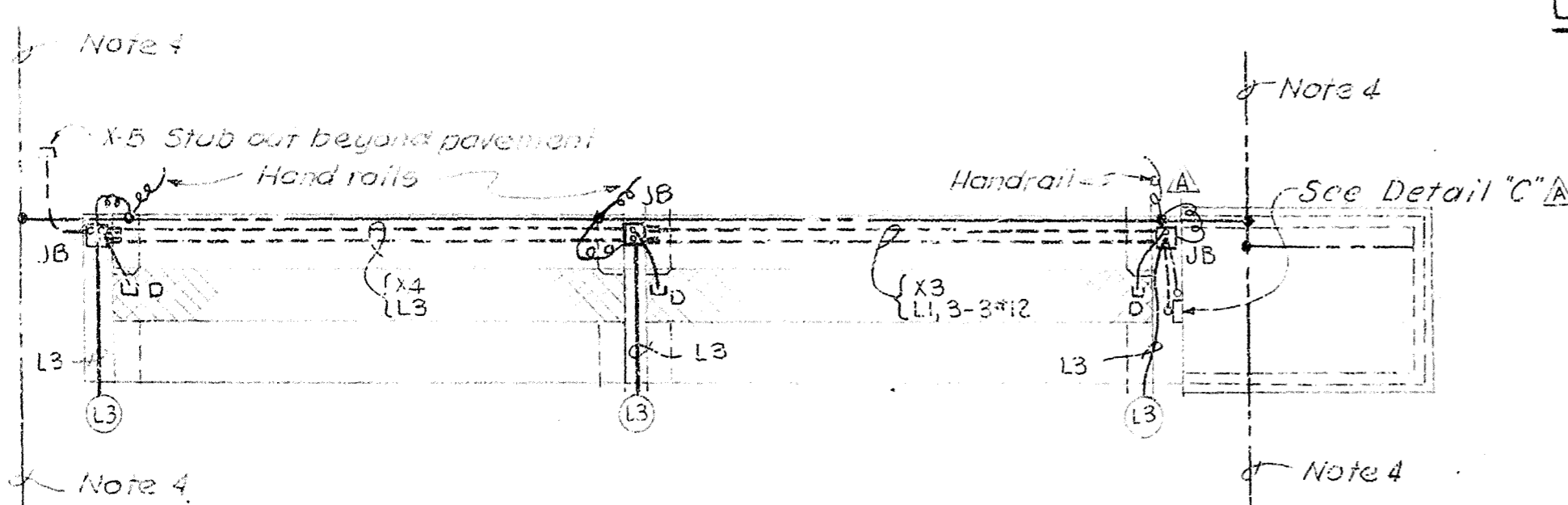
SCHEDULE "A" - SYMBOL LIST		
REV.	SYMBOL	DESCRIPTION
	—	CONDUIT CONCEALED IN WALLS OR STRUCTURE: NOTE 1
	---	CONDUIT CONCEALED IN FLOOR OR EARTH: NOTE 1
	---	CONDUIT, EXPOSED: NOTE 1
	— D	CONDUIT, STUB OUT AND CAP: D DENOTES DRAIN - DETAIL "D"
	##	HASH MARKS DENOTE NUMBER OF NO. 12 AWG WIRES: NOTE 1
	---	GROUND WIRE
	—	GROUND CONNECTION
	⊕	LIGHTING FIXTURE OUTLET: DETAIL "B"
	⊕ W	DUPLEX CONV. OUTLET, 2P3W GROUNDED; W - WEATHERPROOF
	⊕	SWITCH, TOGGLE, SPST
	⊗	NEON GLOW LAMP, ILLUMINATED TOGGLE SWITCH HANDLE
	⊠ JB	JUNCTION BOX: NOTE 2
	⊠	CONDUIT EXPANSION FITTING: NOTE 3
	⊠	COMBINATION MOTOR STARTER: DETAIL "A"
	⊠	SAFETY SWITCH: DETAIL "A"
	⊠	CIRCUIT BREAKER, POLES AND AMPERE TRIP AS NOTED
	⊠	INSTANTANEOUS OVERLOAD
	⊠	THERMAL OVERLOAD
	⊠	CONTACTOR COIL
	⊠	CONTACTOR CONTACTS: MAIN AND AUX.
	⊠	PUSHBUTTON CONTACTS: NC AND NO
	⊠	IND. LT., MOTOR RUNNING, RED LENS
	⊠	EQUIPMENT HEATER



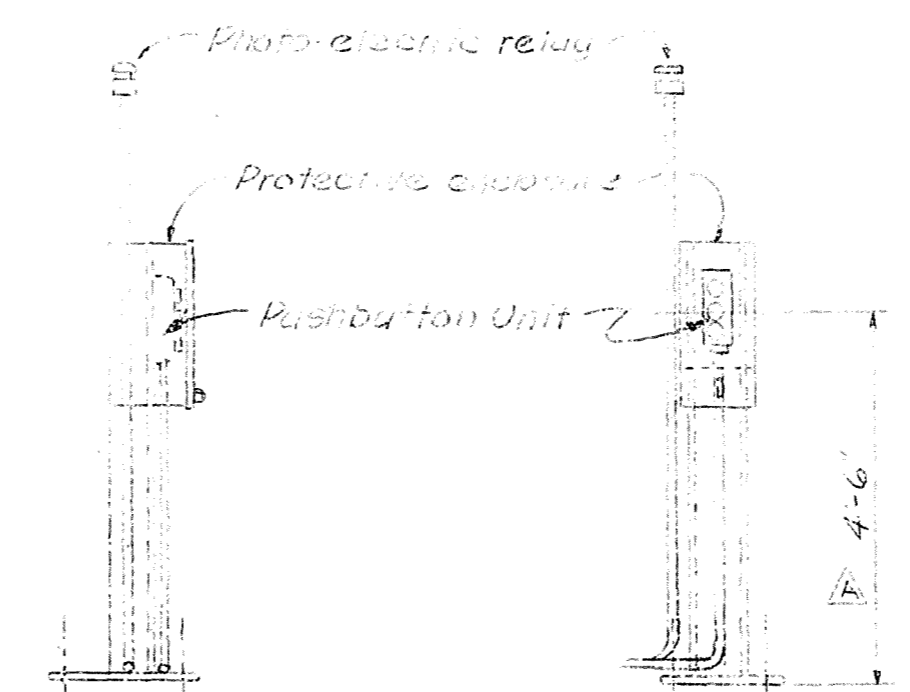
CONTROL HOUSE PLAN
SCALE: 1/2" = 1'-0"



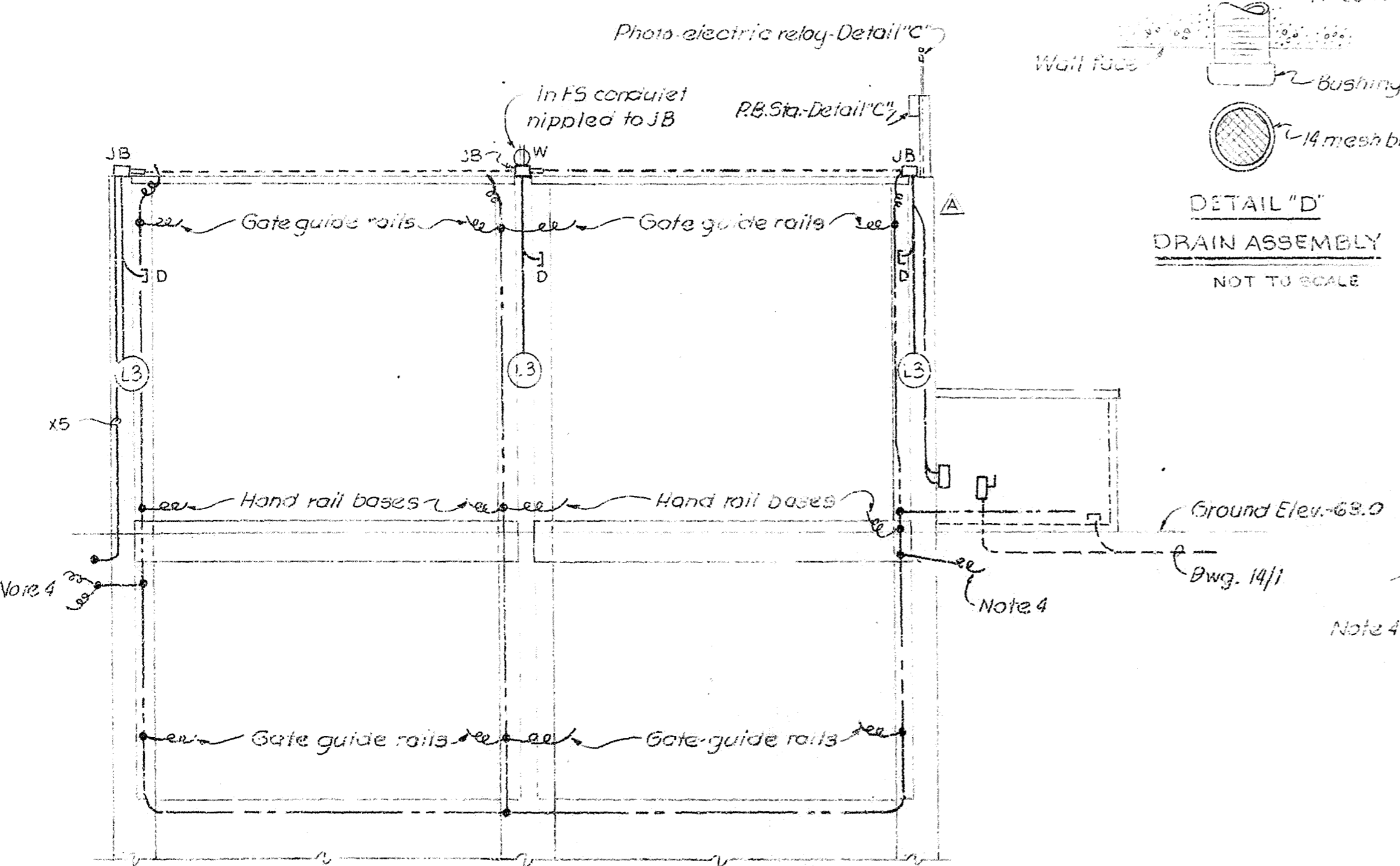
DETAIL "B"
LIGHTING FIXTURES
NOT TO SCALE



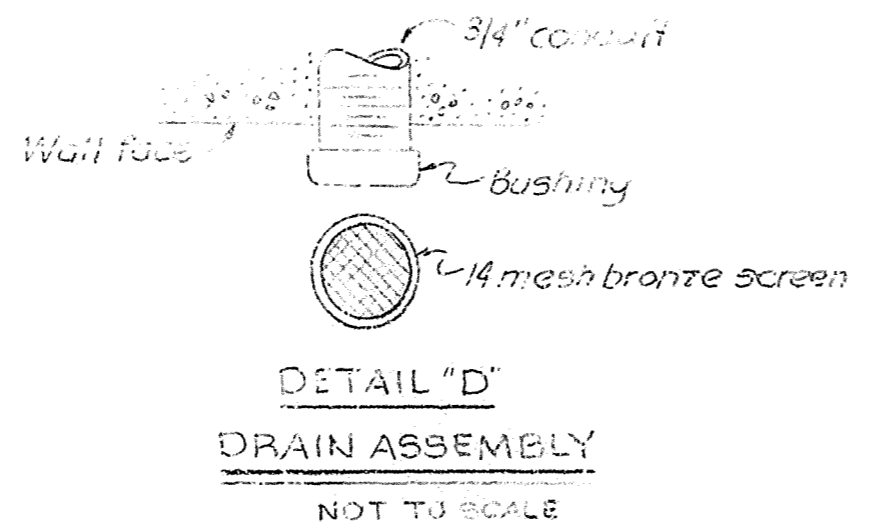
PLAN



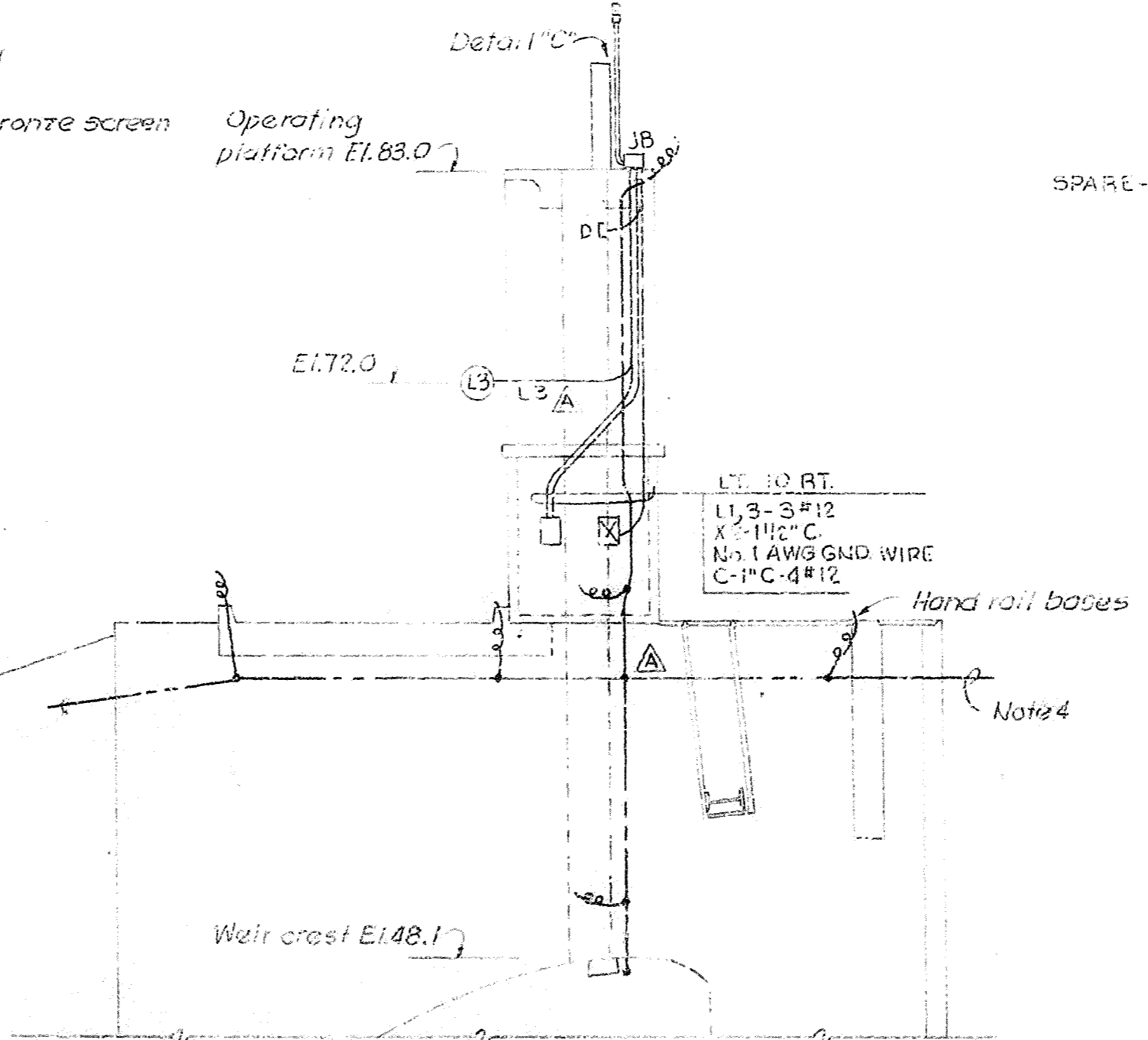
DETAIL "C"
PUSHBUTTON AND PHOTO-ELECTRIC RELAY
INSTALLATION
(See Note 5)



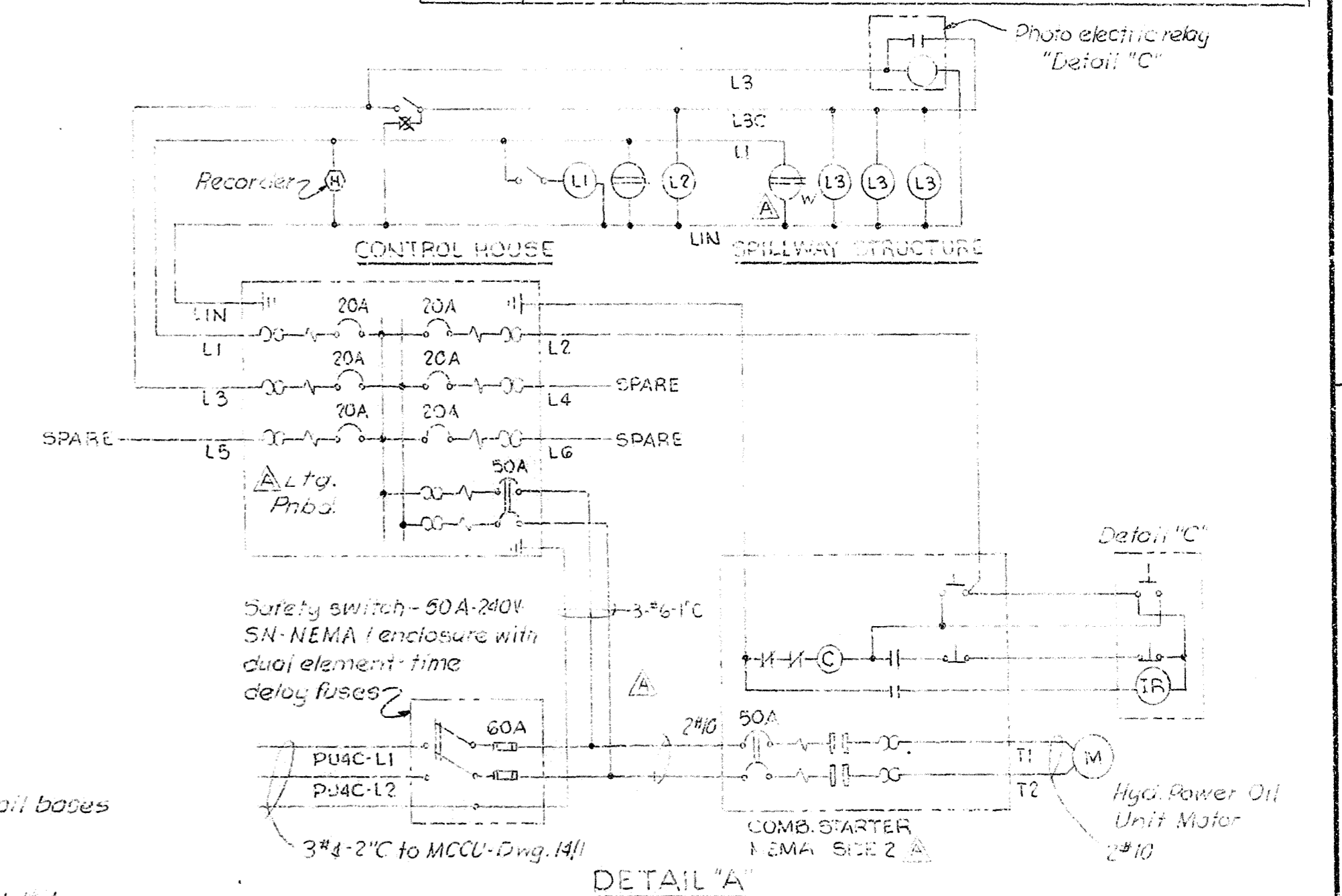
FRONT ELEVATION



DETAIL "D"
DRAIN ASSEMBLY
NOT TO SCALE



SIDE ELEVATION



SCHEMATIC WIRING DIAGRAM

SPILLWAY STRUCTURE
SCALE: 3/16" = 1'-0"

RECORD DRAWING NOTE
"Shall be," "Provide," "Install," "Remove," etc., indicates work was accomplished under the contract.

AS BUILT

U.S. ARMY ENGINEER DISTRICT, JACKSONVILLE
CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
FOUR RIVER BASINS FLORIDA
MOSS BLUFF LOCK AND SPILLWAY
SPILLWAY
ELECTRICAL
ELECTRICAL SYSTEM

DATE: 24 JAN 1967	SCALE: AS SHOWN	DATE: 24 JAN 1967	SHEET 12 OF 12
D.O. FILE NO. 602-4901	602-31470		