

DRAWING NUMBER

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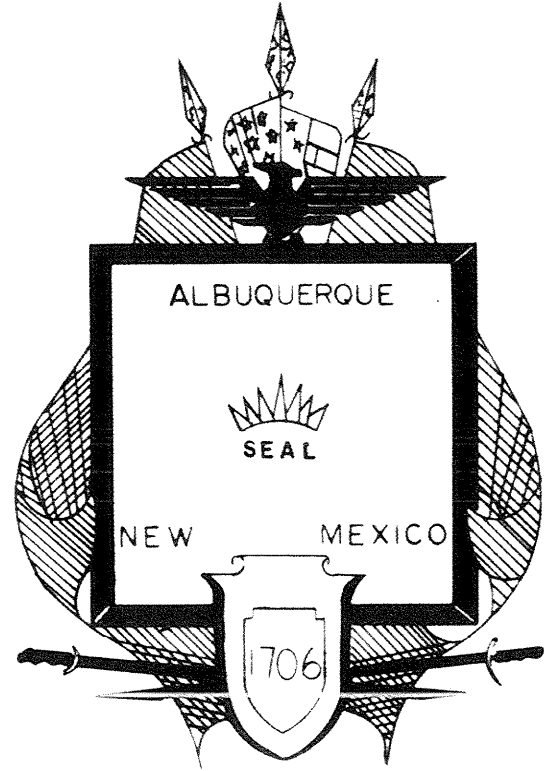
DRAWING NUMBER

SAECO PRODUCTS • NEW HOPE, MINNESOTA
REPRODUCED BY PERMIT OF THE CITY OF ALBUQUERQUE

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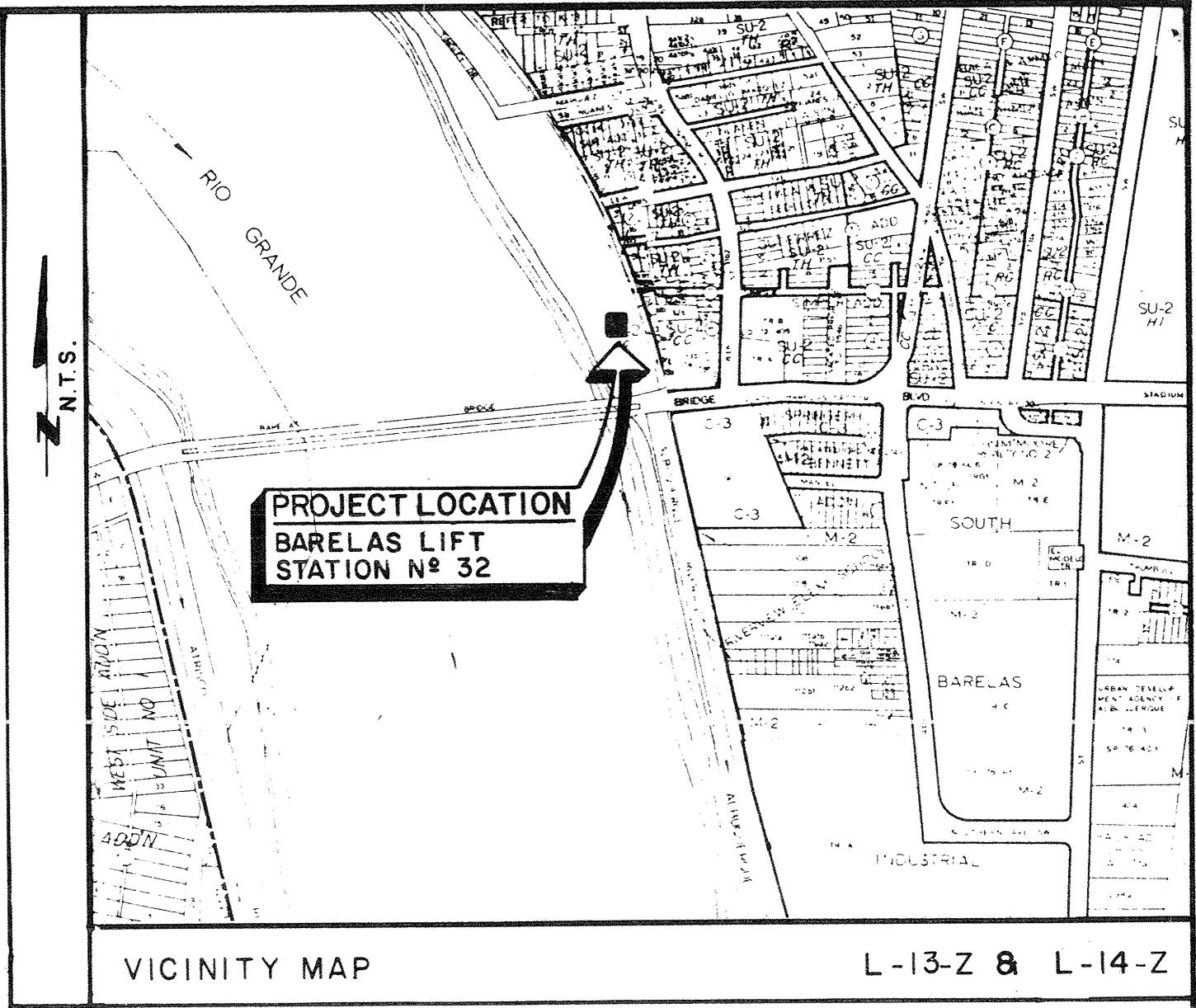
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

PLANS FOR
CONSTRUCTION OF
BARELAS BAR SCREEN
INSTALLATION
AS BUILT TO DATE 8-15-88

INDEX TO SHEETS

SHEET Nº	DESCRIPTION
1	TITLE SHEET
2	DEMOLITION 1
3	DEMOLITION 2
4	MECHANICAL BAR SCREEN INSTALLATION
5	MECHANICAL BAR SCREEN INSTALLATION
6	BAR SCREEN CONTROLS

PROJECT-3404



NOTICE TO CONTRACTORS

1. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the City of Albuquerque Interim Standard Specifications for Public Works Construction 1985.
2. Two (2) working days prior to any excavation, the contractor must contact Line Locating Service, 765-1234 for location of existing utilities.
3. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer or surveyor so that the conflict can be resolved with minimum amount of delay.

1 2 3 4 5 6 7 8 9 10 11 12
26 34040188

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Steve Boley
DATE 9/19/88

SCANNED BY

REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE
APPROVAL OF REVISIONS									

BOVAY ENGINEERS, INC.
ALBUQUERQUE
HOUSTON • SPRING • AUSTIN • BATON ROUGE

APPROVED FOR
CONSTRUCTION

BOVAY PROJECT Nº 6001-48

CITY OF ALBUQUERQUE PROJECT Nº 1647

SHEET 1 OF 6

DRAWING NUMBER

SAPCO PRODUCTS • NEW HIRE, MINNESOTA
REORDER BY PART NUMBER 8885

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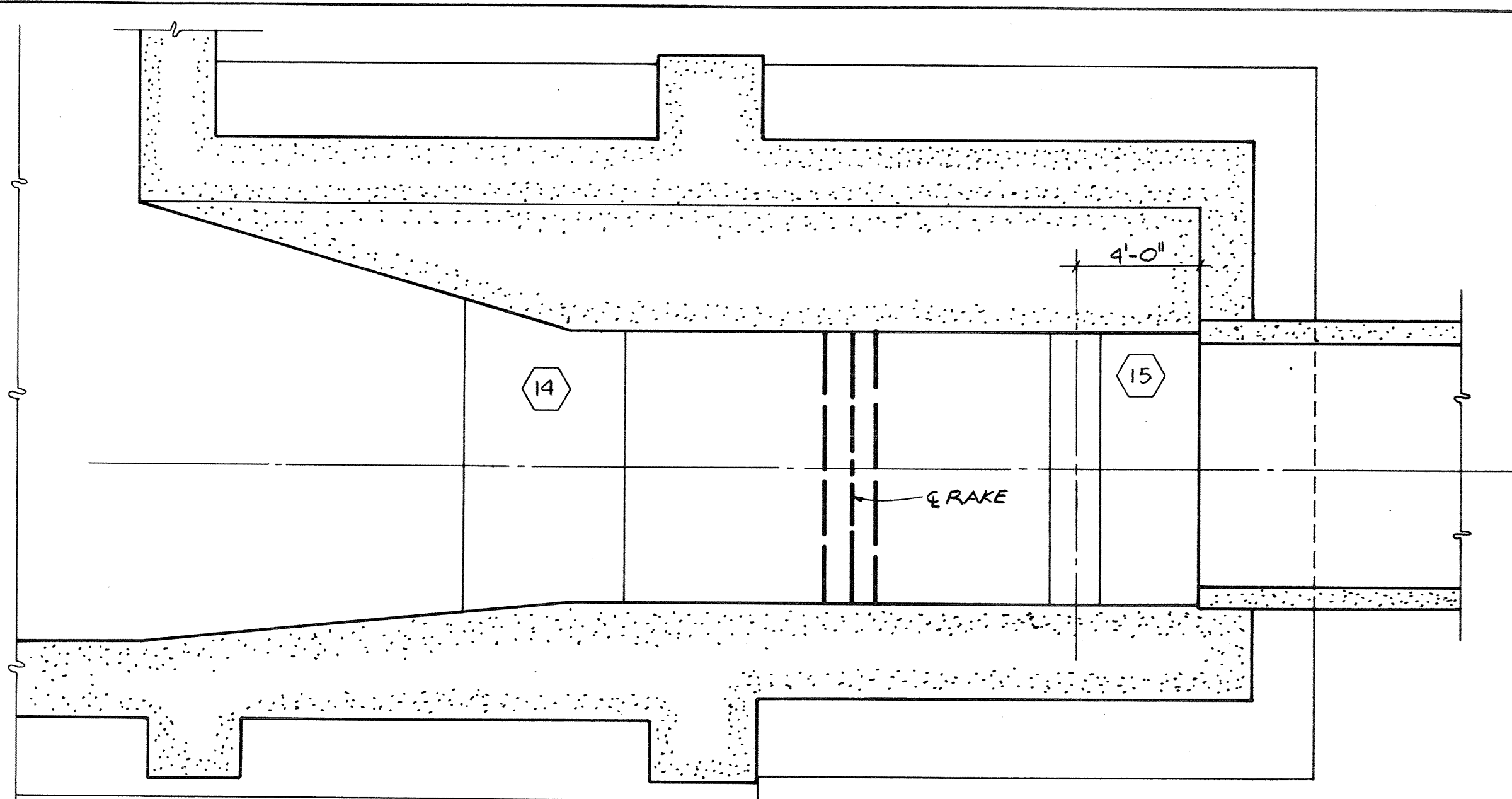
SAPCO PRODUCTS • NEW HIRE, MINNESOTA
REORDER BY PART NUMBER 8885

DRAWING NUMBER

26 34040288
SAPCO PRODUCTS • NEW HIRE, MINNESOTA
REORDER BY PART NUMBER 8885

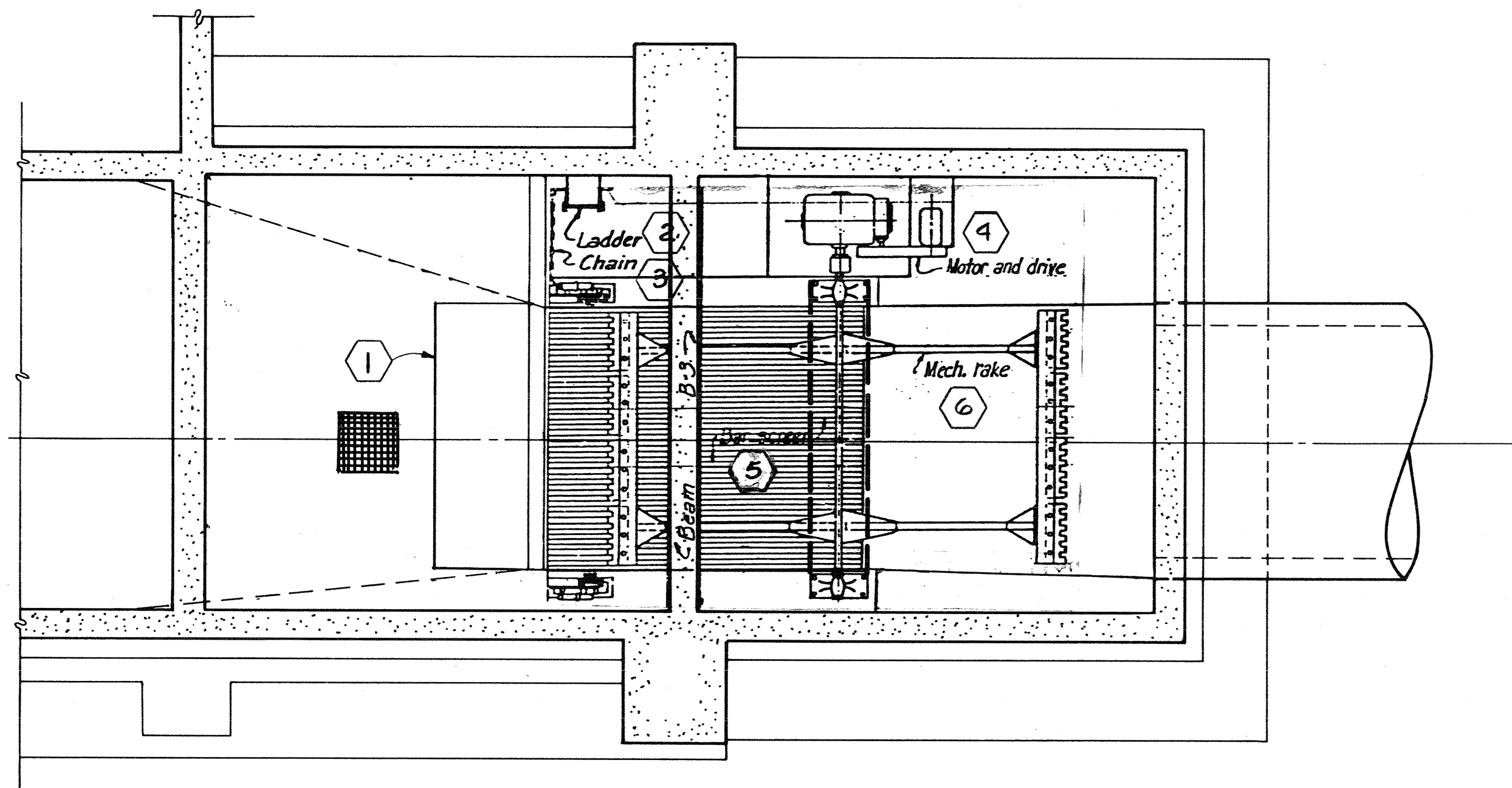
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SAPCO PRODUCTS • NEW HIRE, MINNESOTA
REORDER BY PART NUMBER 8885



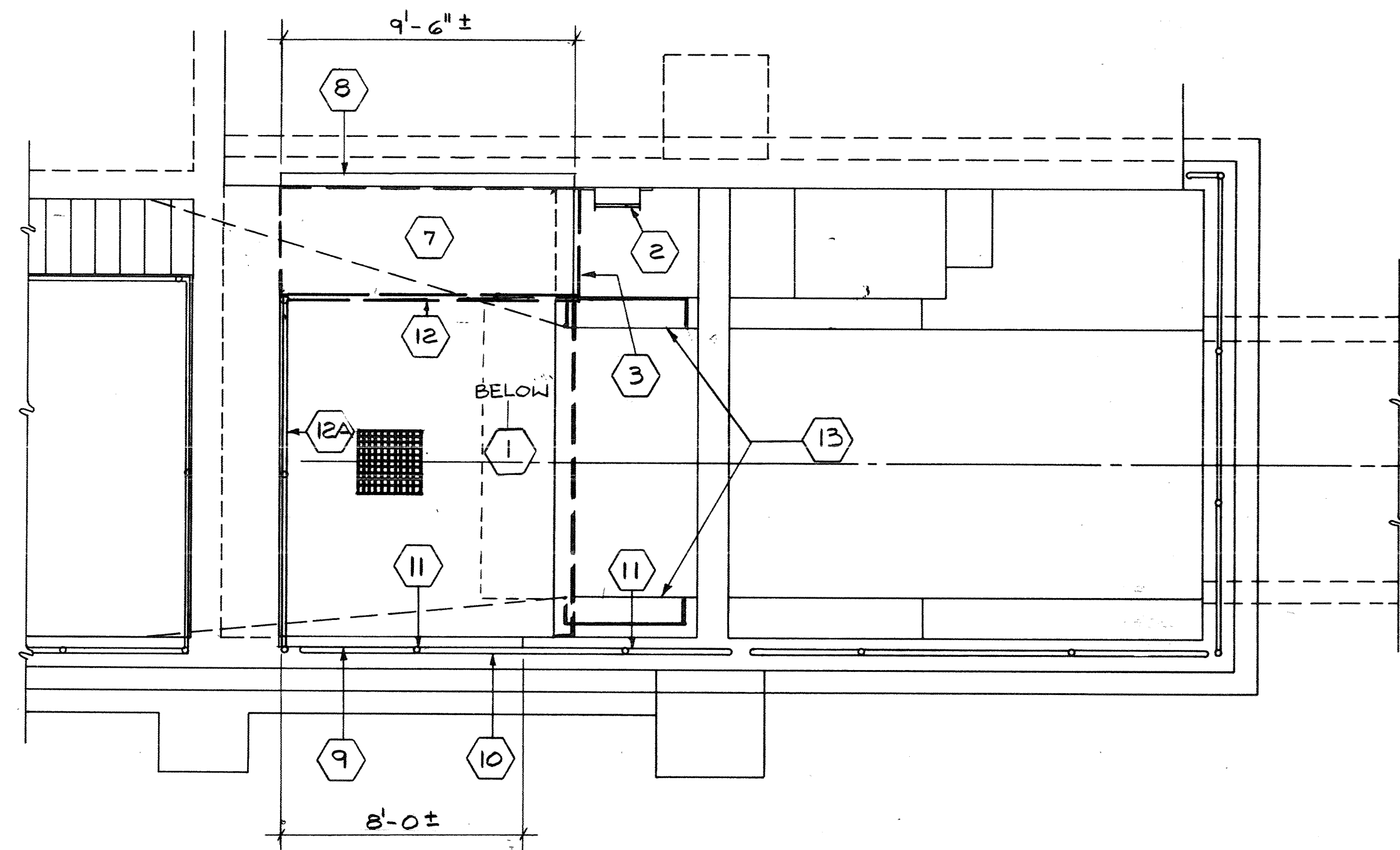
PLAN SECTION AT ELEV. 4920.0

SCALE: 1/4" = 1'-0"



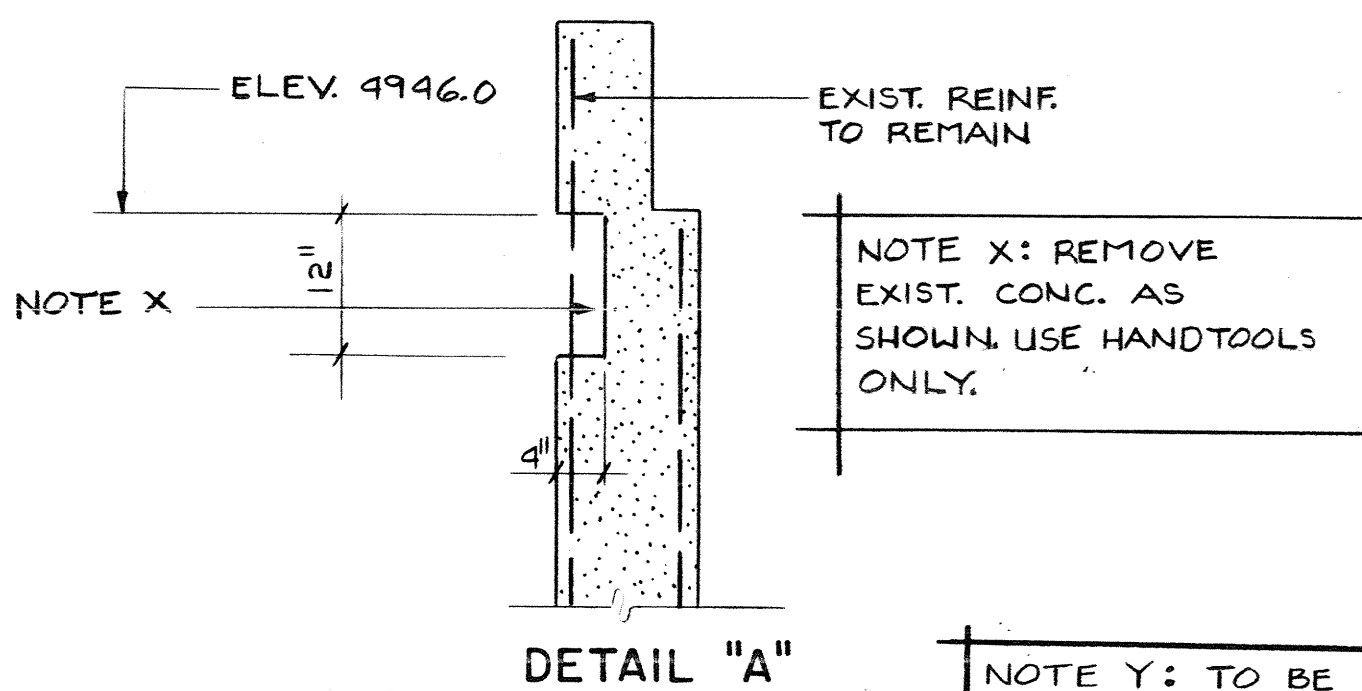
PLAN SECTION - ELEV. 4940.0 - 4946.0

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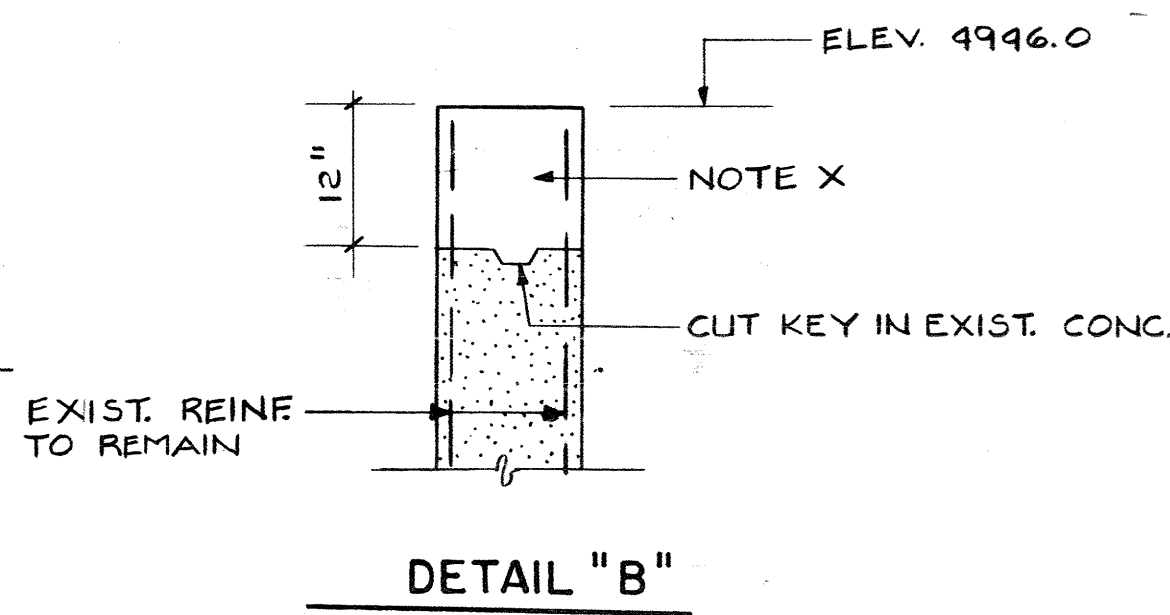


FLOOR PLAN

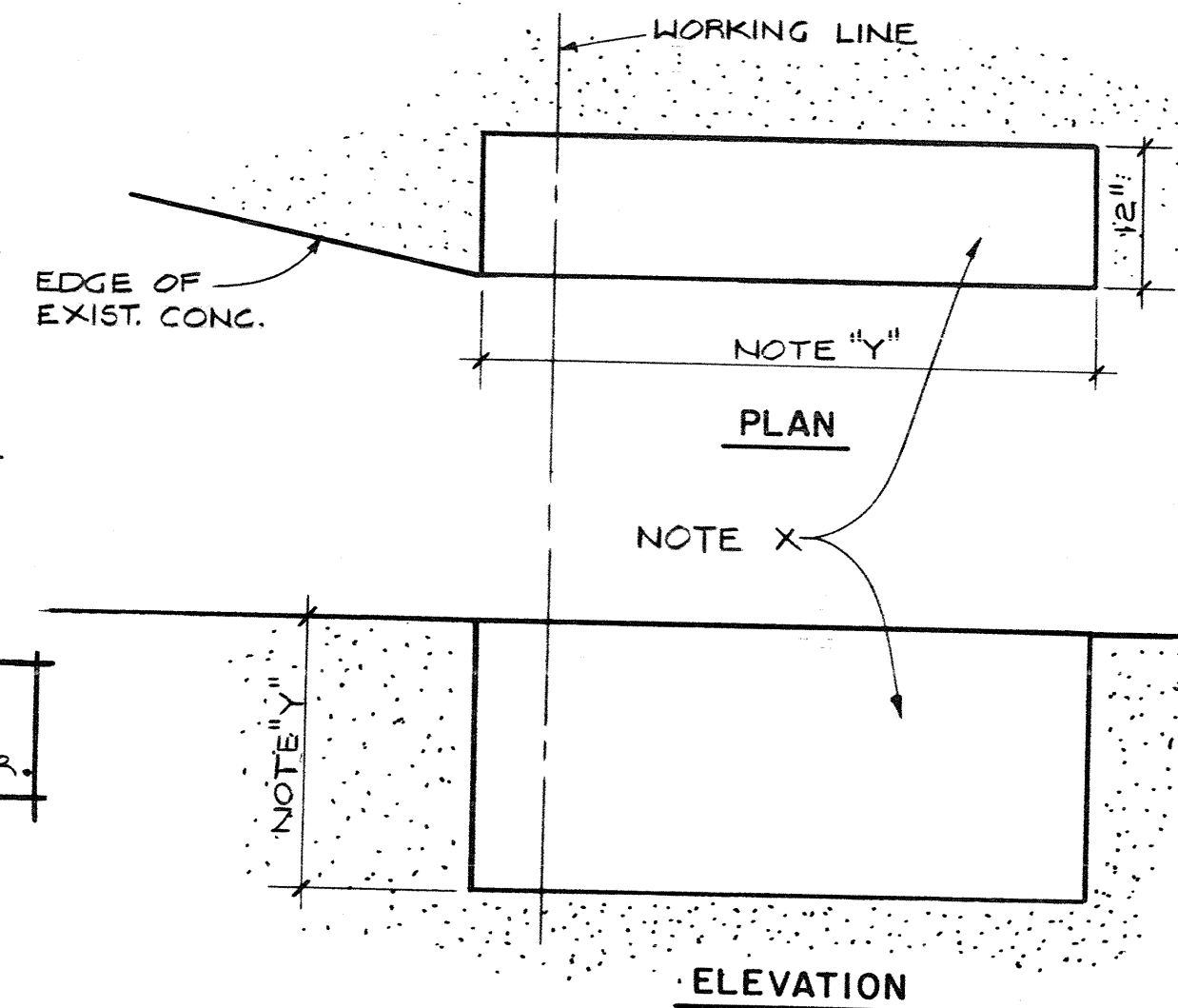
SCALE: 1/4" = 1'-0"



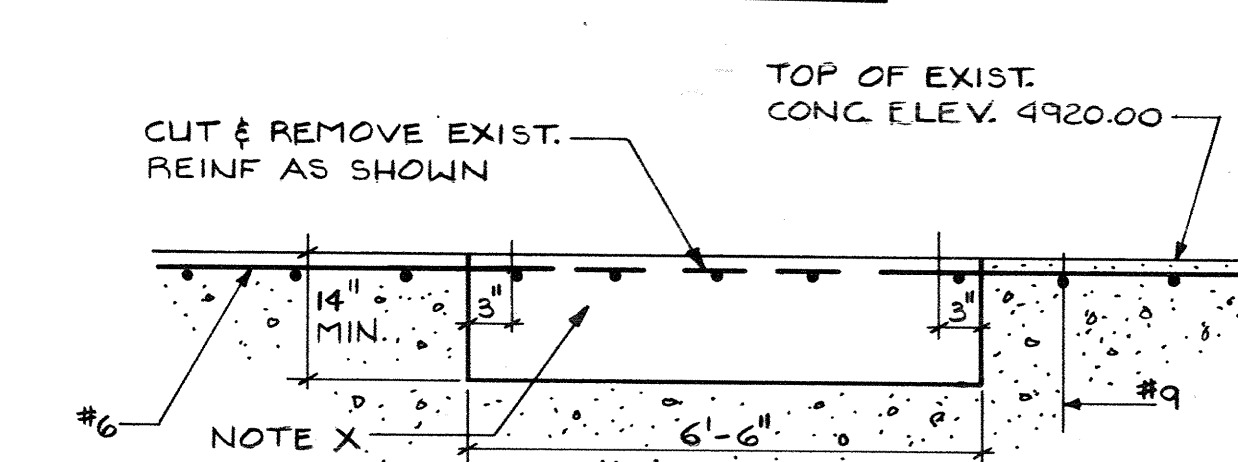
DETAIL "A"



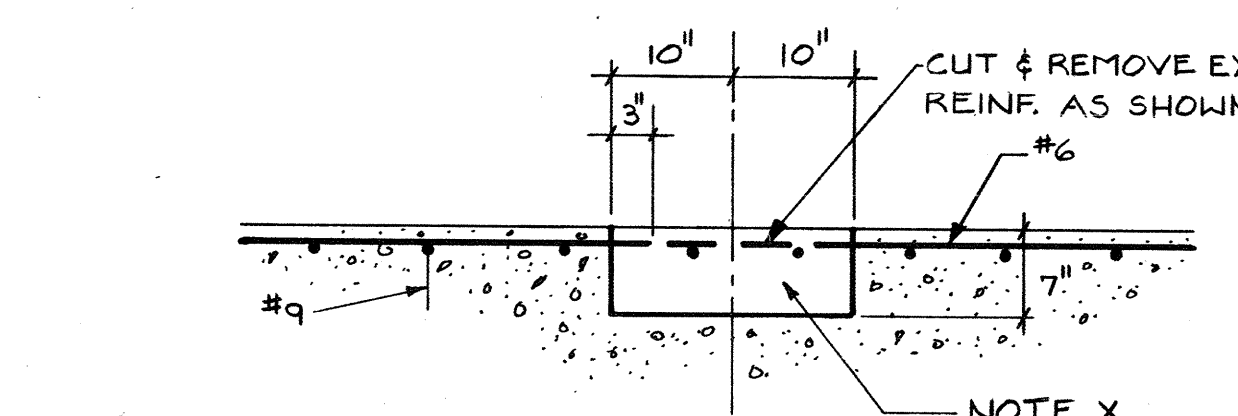
DETAIL "B"



DETAIL "C"



DETAIL "D"



DETAIL "E"

NOTES:

1. REMOVE CONCRETE STORAGE AREA, GRATINGS AND CURB AT SLAB ELEV. 4928.92
2. EXISTING LADDER TO REMAIN
3. CHAIN GUARD AND PIPE POSTS TO BE REMOVED AND RELOCATED AS SHOWN ON THE CONSTRUCTION DRAWING.
4. REMOVE MOTOR AND DRIVE.
5. REMOVE ENTIRE BAR SCREEN AND CONTROLS
6. REMOVE MECHANICAL RAKE
7. REMOVE EXISTING CONCRETE SLAB (6" THICK)
8. REMOVE PART OF EXISTING WALL AS SHOWN ON DETAIL "A" THIS SHEET.
9. REMOVE PART OF EXISTING CONCRETE WALL AS SHOWN ON DETAIL "B" THIS SHEET.
10. REMOVE RAILING AND REUSE PIPES FOR REMOVABLE RAILINGS AS SHOWN ON CONSTRUCTION DRAWINGS AND DETAILS.
11. FILL EXISTING PIPE SLEEVES WITH GROUT.
12. REMOVE SIDE MOUNTED RAILINGS, SLEEVES AND ANGLES. BURN BOLTS FLUSH WITH CONCRETE AT 12A ONLY.
13. REMOVE EXISTING CONCRETE AS SHOWN ON DETAIL "C", THIS SHEET.
14. REMOVE EXISTING CONCRETE AS SHOWN ON DETAIL "D" THIS SHEET. LOCATION TO BE VERIFIED BY BAR SCREEN MANUFACTURER.
15. CUT 7" DEEP CHANNEL AS SHOWN IN DETAIL "E" THIS SHEET.

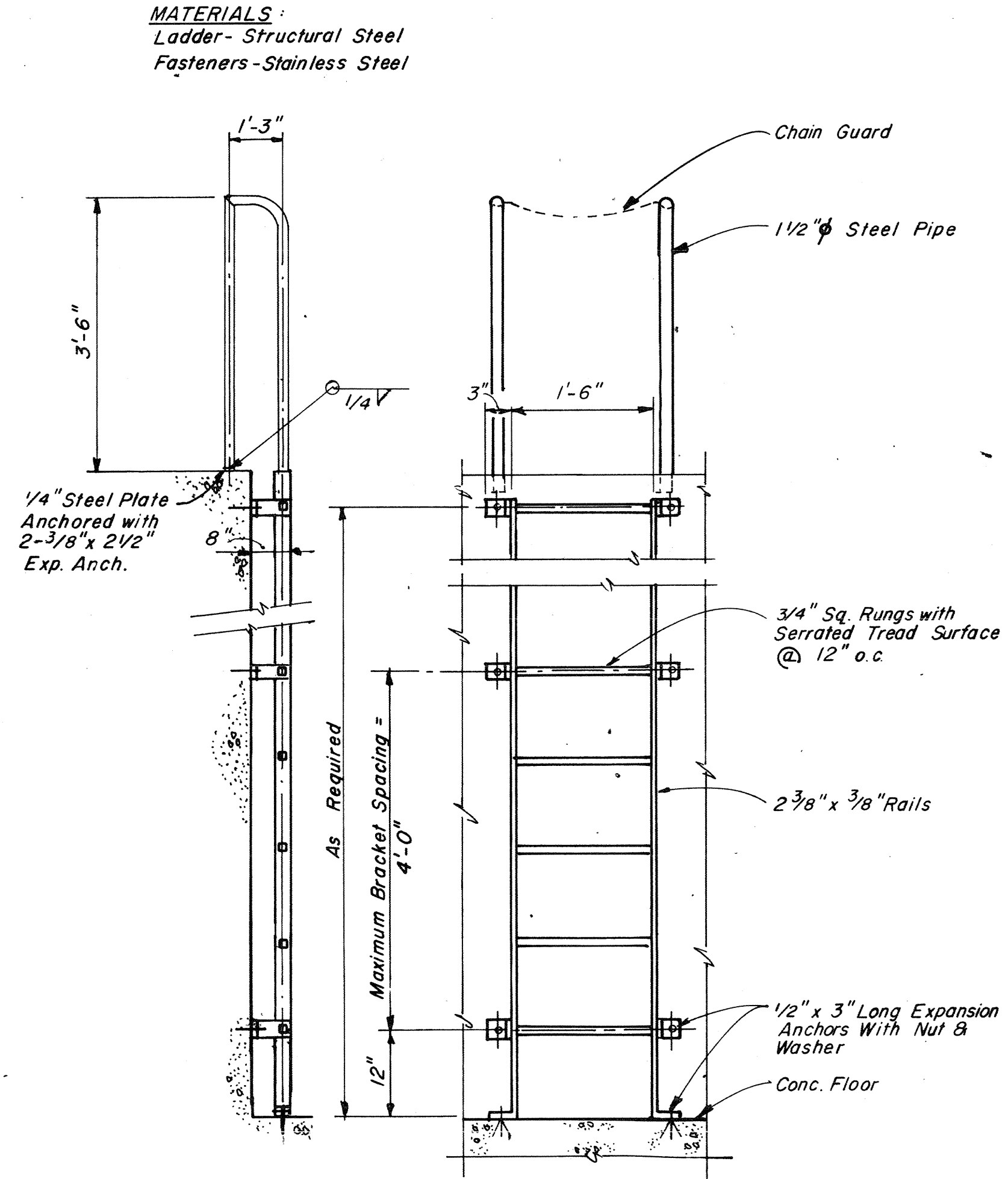
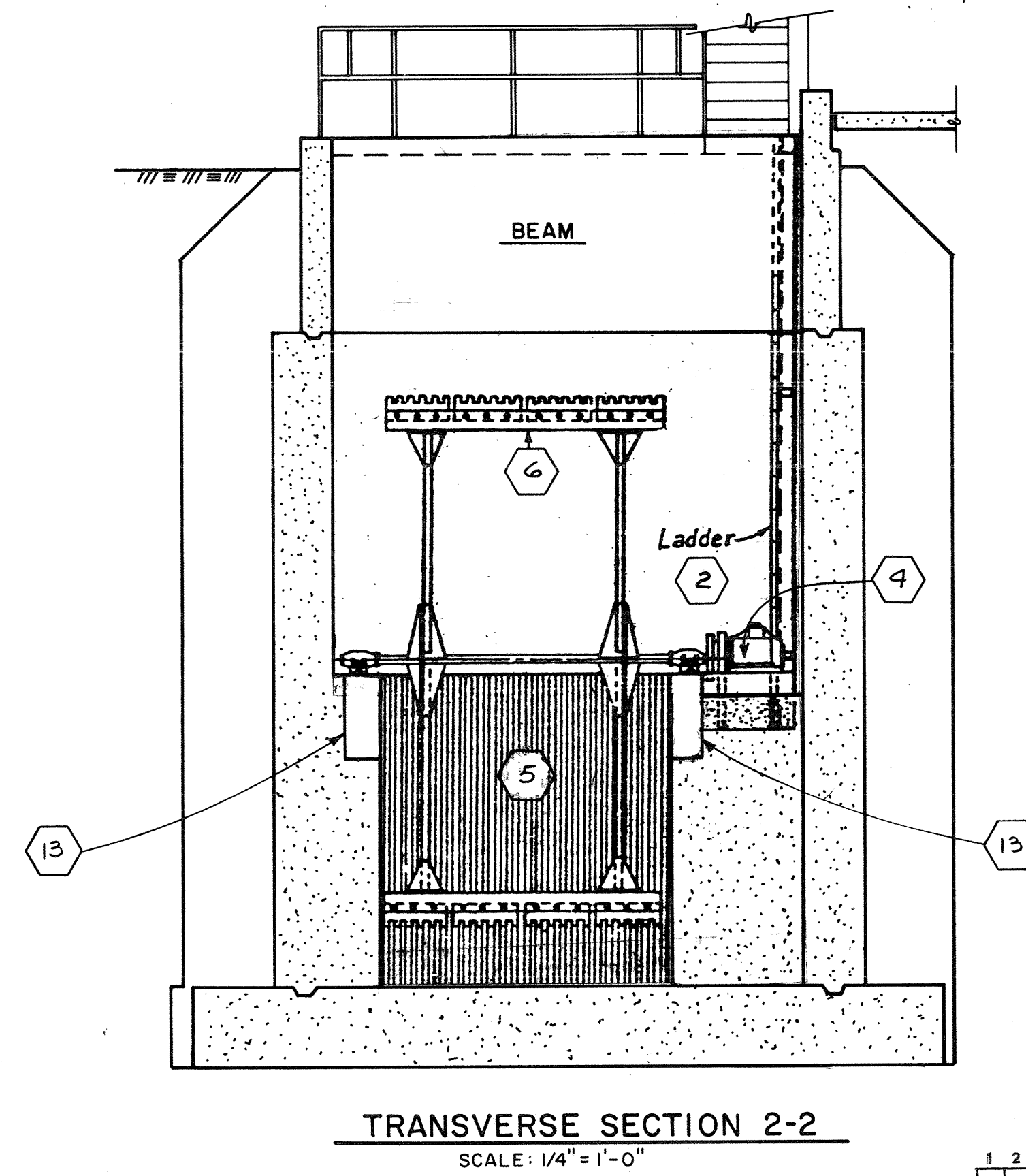
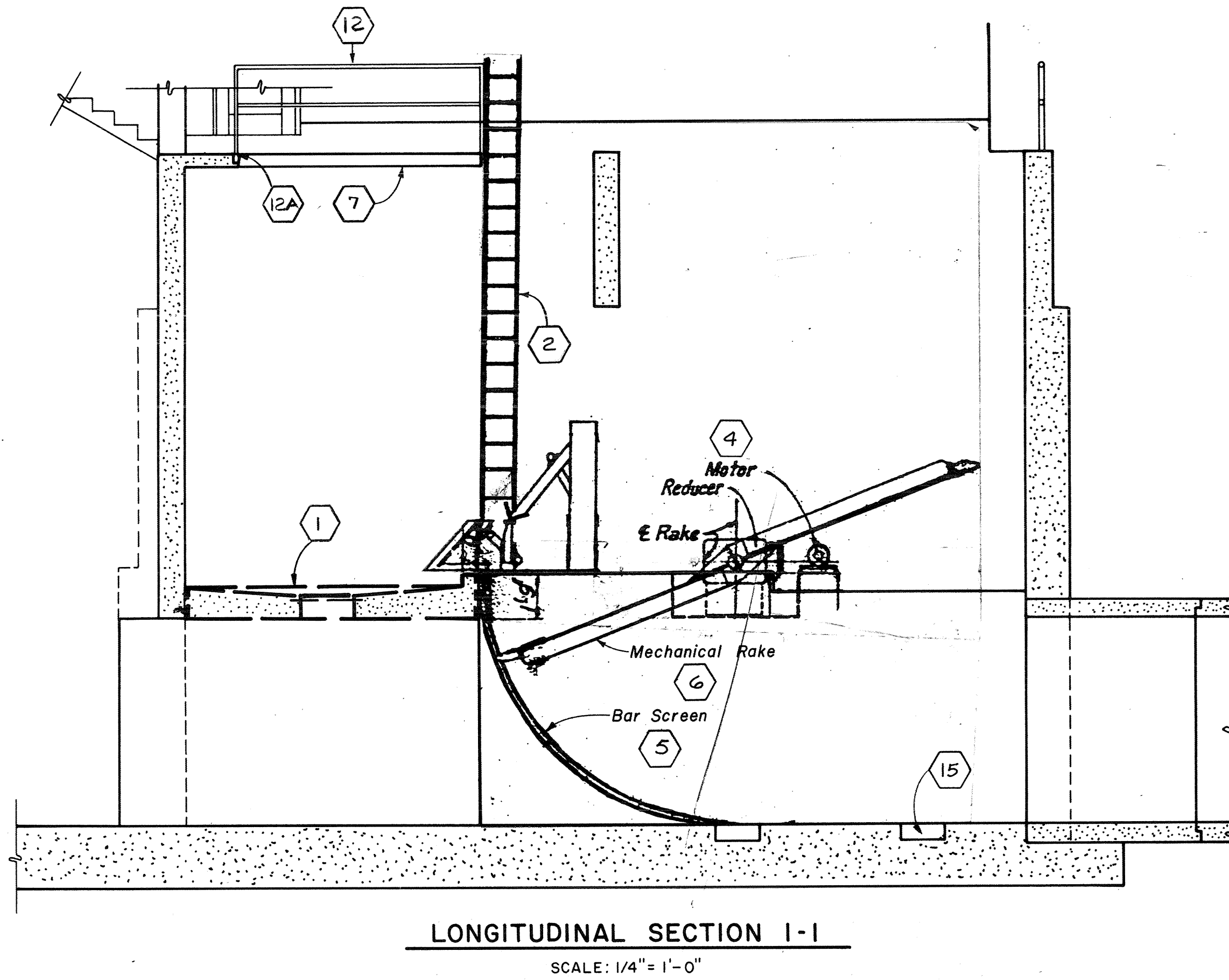
AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL			REVISIONS			DESIGN		
CONTRACTOR	WORK	DATE	CONTRACTOR	WORK	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	DATE	DATE	NO.	DATE	DATE
	STARTED BY			STARTED BY													
	ACCEPTANCE BY			ACCEPTANCE BY													
	FIELD	DATE		FIELD	DATE												
	CORRECTED BY			CORRECTED BY													
	DRAWINGS	DATE		DRAWINGS	DATE												
	MICRO-FILM	DATE		MICRO-FILM	DATE												
	RECORDED BY			RECORDED BY													
	NO			NO													

SCANNED BY

BOVAY ENGINEERS, INC.
HOUSTON • AUSTIN • ALBUQUERQUE • BATON ROUGE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: BARELAS PUMP STATION #32 DEMOLITION I					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
BOVAY PROJECT #6001-48			MAP NO. SHEET OF		
CITY OF ALBUQUERQUE PROJ. #1647			L-13-Z & L-14-Z 2 6		

DRAWING NUMBER

SAFECO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 6553

DRAWING NUMBER

SACD PRODUCTS • NEW HOPE, MINNESOTA
PROFESSIONAL ENGINEER OF PUMP AND TOWER LINES

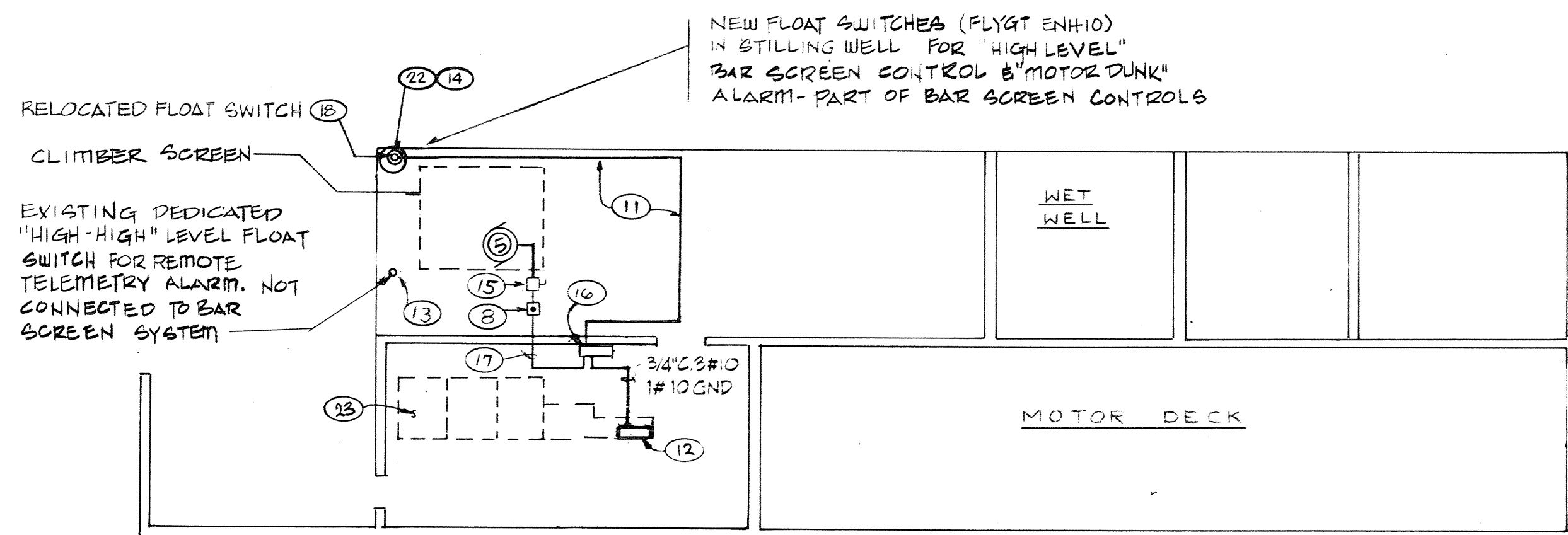
DRAWING NUMBER

SACD PRODUCTS • NEW HOPE, MINNESOTA
PROFESSIONAL ENGINEER OF PUMP AND TOWER LINES

DRAWING NUMBER

SACD PRODUCTS • NEW HOPE, MINNESOTA
PROFESSIONAL ENGINEER OF PUMP AND TOWER LINES

DRAWING NUMBER

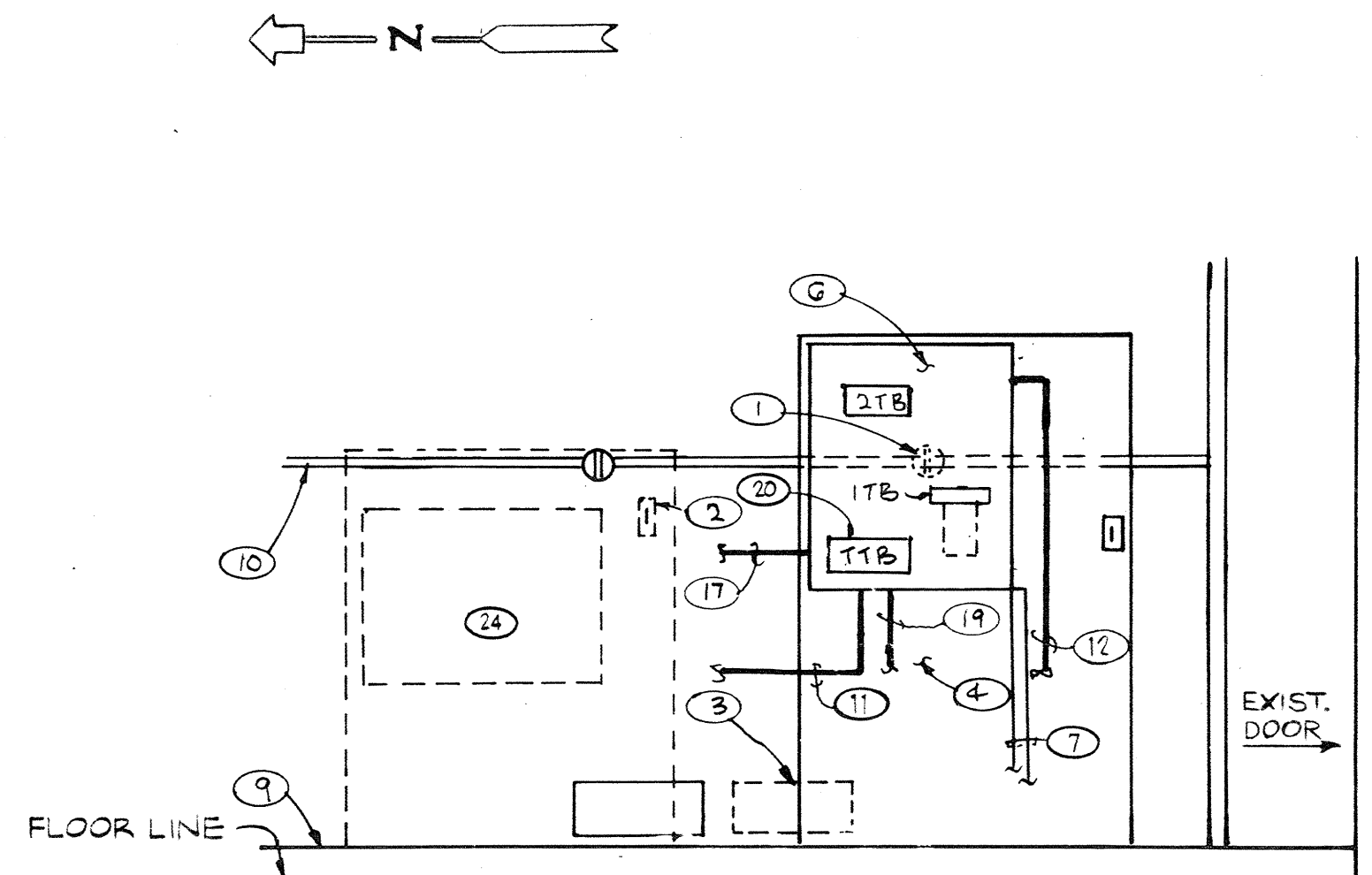
SACD PRODUCTS • NEW HOPE, MINNESOTA
PROFESSIONAL ENGINEER OF PUMP AND TOWER LINES

SYSTEM OPERATING FEATURES:

1. BAR SCREEN CYCLE TO BE INITIATED BY A 24-HR. TIMER IN BAR SCREEN CONTROLLER. FREQUENCY OF CYCLING TO BE SET BY CITY PERSONNEL.
2. BAR SCREEN TO OPERATE THRU ONE CYCLE/STOP & RESET.
3. BAR SCREEN OPERATION TO ALSO BE INITIATED BY WATER LEVEL IN THE WET WELL. HIGH-LEVEL TURN-ON POINT TO BE SET AT LEVEL PER CITY PERSONNEL. BAR SCREEN TO OPERATE CONTINUOUSLY WHEN WET WELL LEVEL IS ABOVE PRESET VALUE.
4. BAR SCREEN OPERATION TO BE INTERLOCKED WITH THE HIGH-HIGH LEVEL FLOAT SWITCH SUCH THAT SWITCH ACTUATION TURNS OFF THE BAR SCREEN AT THE END OF THE CURRENT CYCLE. THIS INTERLOCK TO OPERATE IN BOTH THE "HAND" AND "AUTO" MODES.

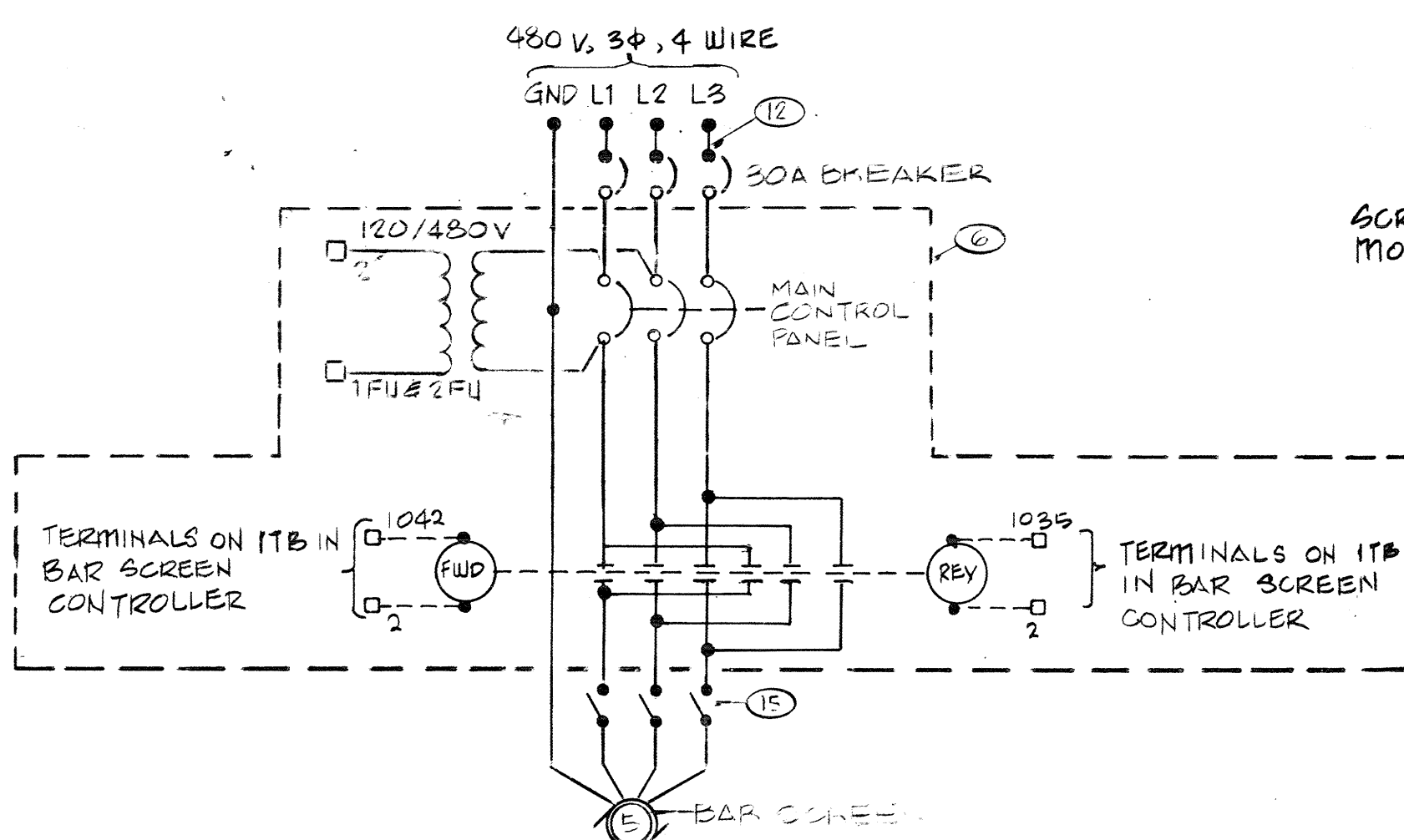
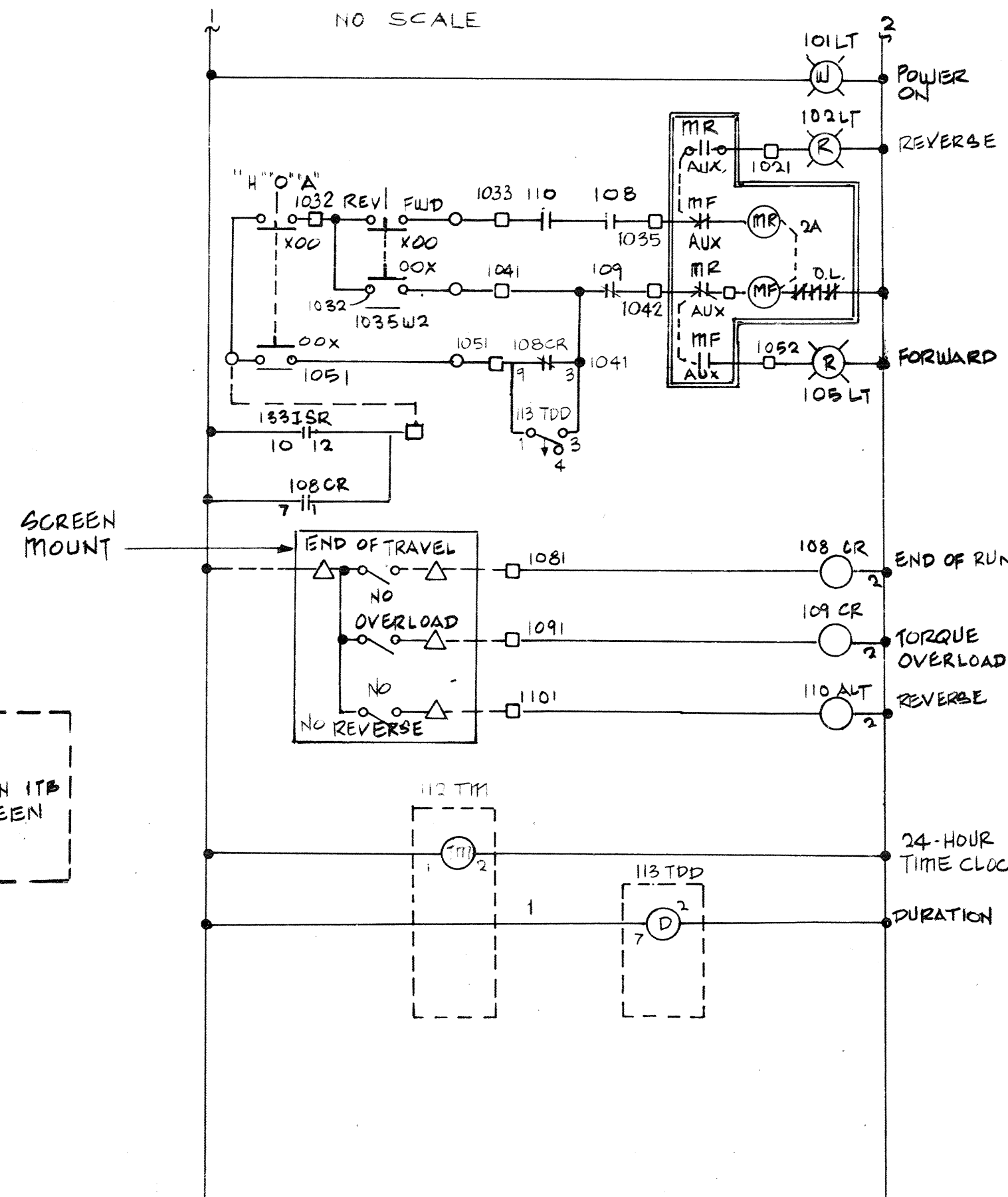
BUILDING PLAN

SCALE: 1"=10'

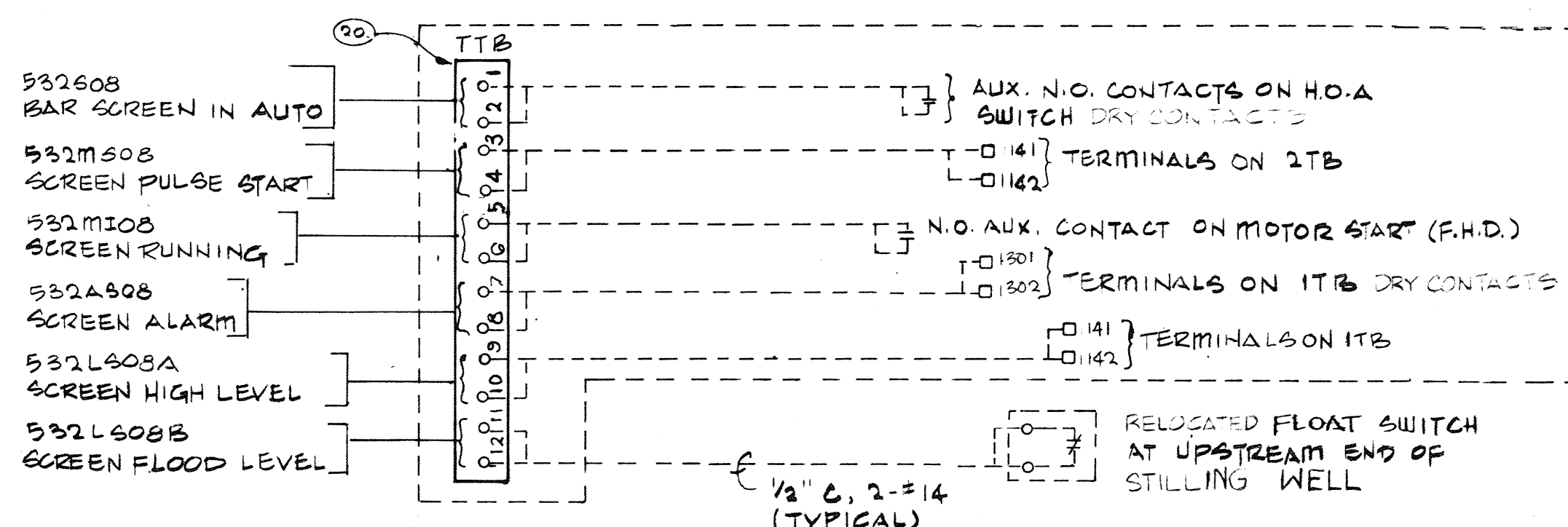
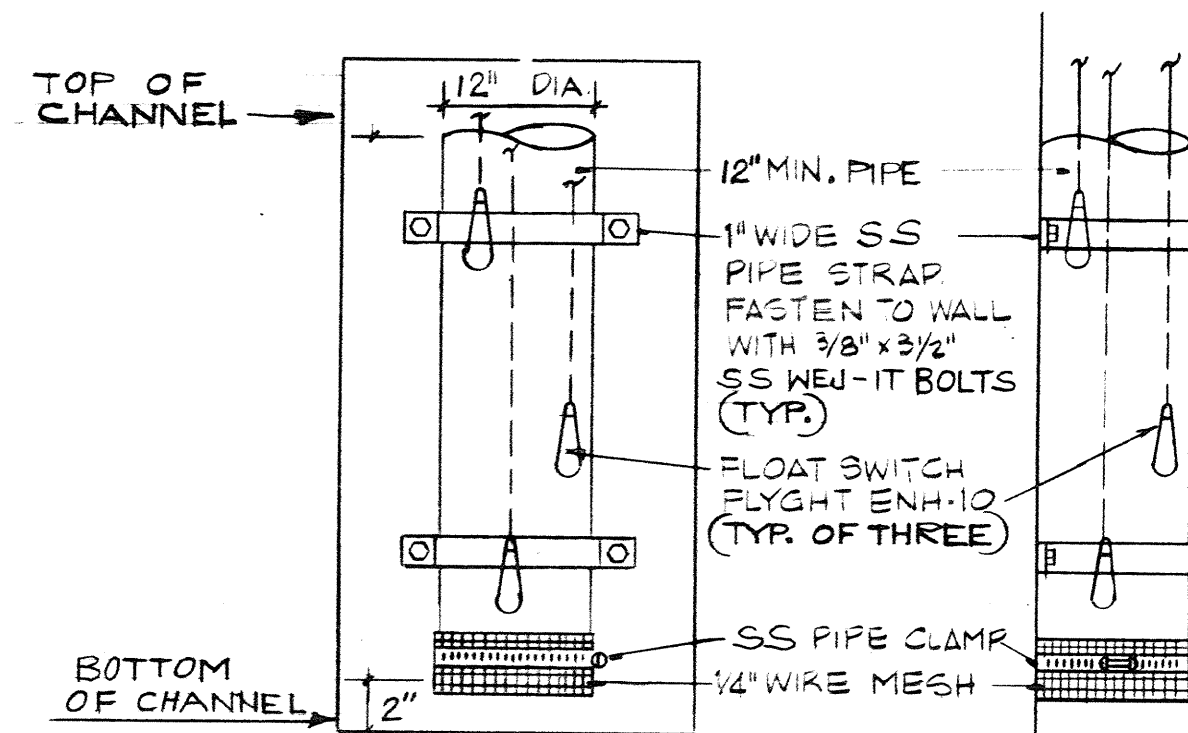


PARTIAL ELEVATION

NO SCALE

MOTOR STARTER SCHEMATIC
DIAGRAM

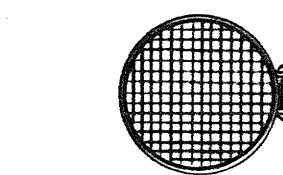
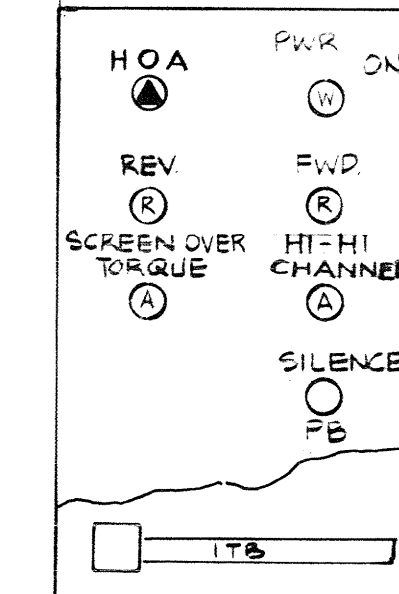
CONTROLLER SCHEMATIC DIAGRAM

SCHEMATIC DIAGRAM FOR FUTURE
TELEMETRY INPUTS

FRONT VIEW (27)

SIDE VIEW

BOTTOM VIEW (28)

CLIMBER SCREEN CONTR.
FRONT VIEW (29)

KEYED NOTES:

1. RELOCATE EXISTING RECEPTACLE TO 4'-0" NORTH.
2. RELOCATE EXIST. LIGHT SWITCH TO NEW PLYWOOD BACKBOARD.
3. RELOCATE EXIST. COMPRESSOR TO 1'-0" NORTH.
4. NEW 4' x 6' x 3/4" MARINE PLYWOOD BACKBOARD.
5. DELETED.
6. NEW CLIMBER SCREEN CONTROL PANEL WITH COMBINATION 480V 2-POLE 1-REVERSING MOTOR STARTER AND 110V 1-POLE 1-REVERSING MOTOR STARTER. SWITCHES MFG. BY INFILCO DEGREMONT OR APPROVED SUBSTITUTE.
7. INSTALL 2 1/2" CONDUITS TO EXISTING TELEMETRY ENCLOSURE FOR CONTROL WIRING.
8. REVERSED OFF-FORWARD SWITCH 250MFC BY INFILCO DEGREMONT OR APPROVED SUBSTITUTE. LOCATE ON FRAME OF BAR SCREEN NEMA 3R ENCL.
9. 2" CONCRETE CURB.
10. WALL SUPPORT BRACKET.
11. 1" CONDUIT FROM SCREEN CONTROLLER TO FLOAT SWITCHES FOR CONTROL WIRING.
12. INSTALL 30A CIRCUIT BREAKER IN 480 VOLT SWITCHGEAR AND TAP 480 VOLT BUS. 3/4" x 3/10, 1#10 GND.
13. EXISTING FLOAT SWITCH FOR FLOOD LEVEL (DUNK) ALARM.
14. NEW HIGH AND HIGH-HIGH LEVEL SWITCHES. FLYGT ENH 10.
15. 480 VOLT, 24, N.F. DISCONNECT, NEMA 3R ENCLOSURE.
16. SEE PARTIAL ELEVATION ON THIS SHEET. CONTROL CABINET.
17. 3/4" C. 4 NUMBER OF WIRES REQ'D BY THE MANUFACTURE TO LIMIT & INTERLOCK SWITCHES ON NEW BAR SCREEN.
18. EXTEND CONDUIT & WIRE TO RELOCATE FLOAT SWITCH.
19. TO EXIST. "FLOOD LEVEL" FLOAT SWITCH (MOTOR DUNK) ALARM.
20. TERMINAL BOARD FOR FUTURE TELEMETRY INPUTS. SEE SCHEMATIC DIAGRAM, THIS SHEET.
21. DELETED.
22. PROVIDE A PIPE SLEEVE TO PROTECT FLOAT SWITCHES FROM INRUSH CURRENTS. (SEE DETAIL THIS SHEET)
23. EXISTING SWITCHGEAR FOR 60RM WATER PUMPS.
24. ALL EXISTING EQUIPMENT TO BE REMOVED & SALVAGED BY CONTRACTOR.
25. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF SHOP DRAWINGS FOR APPROVAL.

BOVAY ENGINEERS, INC.
HOUSTON, TEXAS
ALBUQUERQUE, NEW MEXICO
BAYON, NEW JERSEYCITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUPTITLE: BARELAS PUMP STATION # 32
BAR SCREEN CONTROLS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

BOVAY PROJECT #6001-48 MAP NO. L-13-2 & L-14-2
CITY OF ALBUQUERQUE PROJ. #147

SHEET 6 OF 6