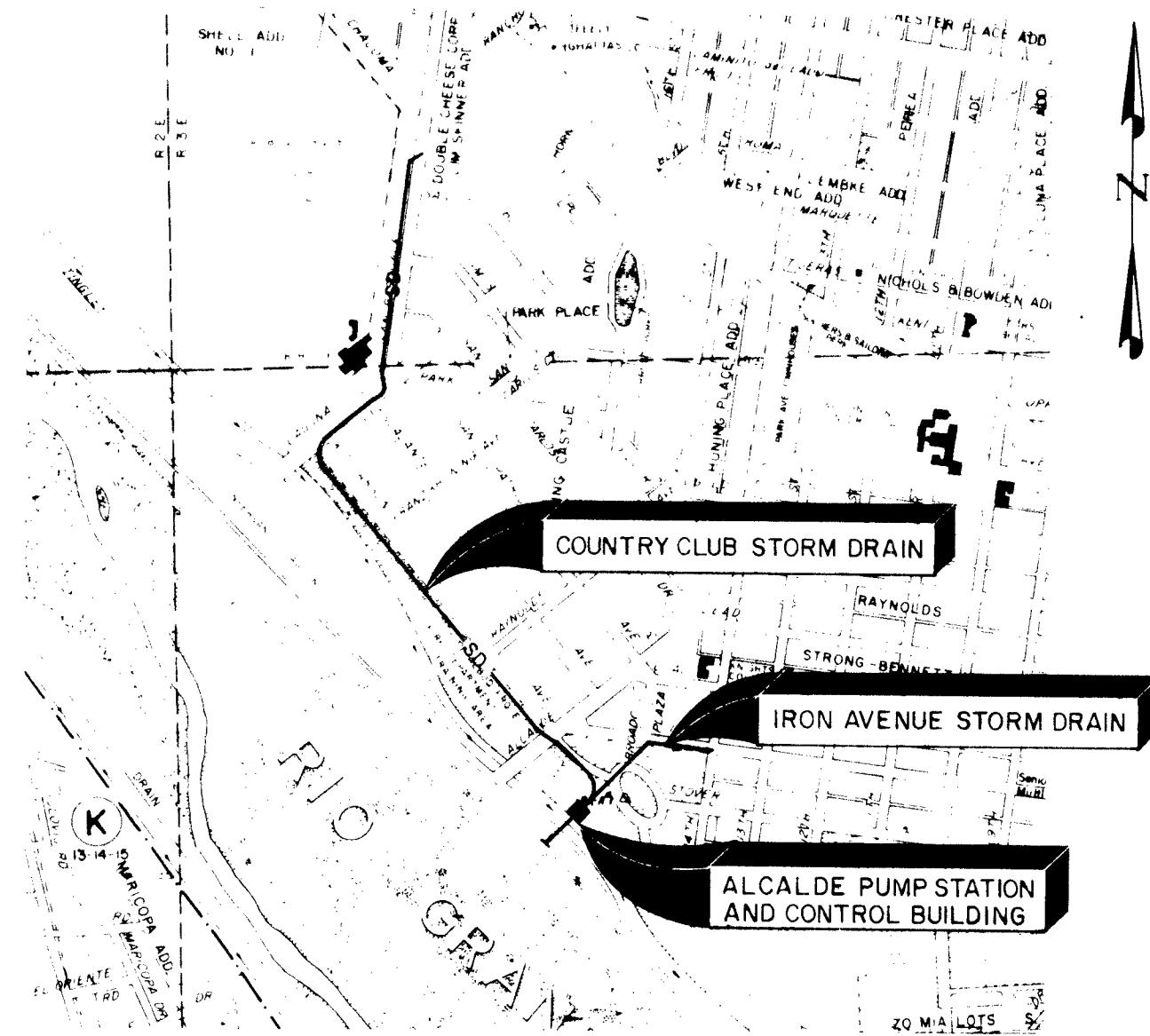




LOCATION MAP
SCALE: 1" = 1,000'

ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM

NOTES TO CONTRACTOR

- 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 "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31" AND THE STANDARD SPECIFICATION.
- NEW MEXICO STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION - 1979 EDITION WILL BE REFERRED TO HEREON AS THE "STANDARD SPECIFICATION"
- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES AND UTILITIES PRIOR TO CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

Project No. 1823.13

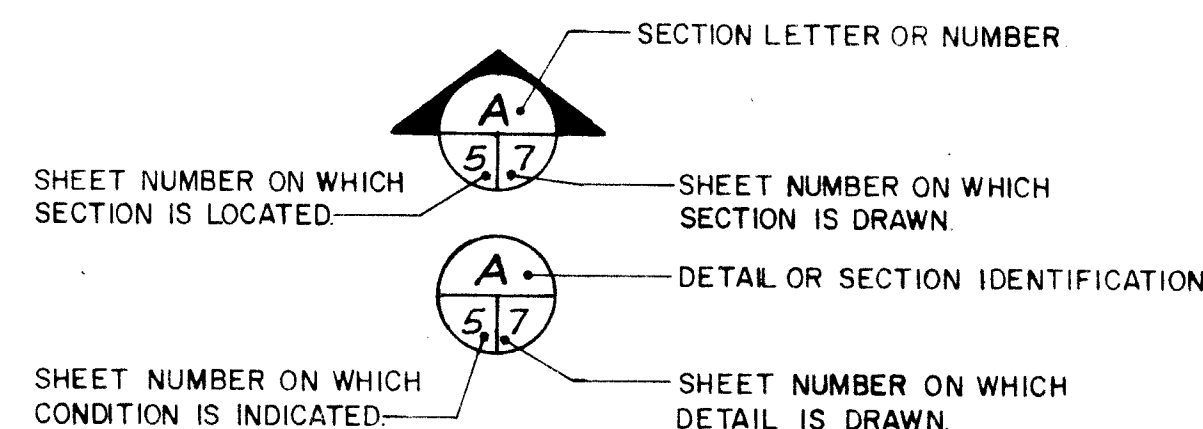
NOVEMBER, 1982

GORDON HERKENHOFF & ASSOCIATES, INC.
302 Eighth Street, N.W.
Albuquerque, New Mexico 87102
(505) 247-0294

HOBBS

SANTA FE

LEGEND



SHEET NO.

TITLE

GENERAL

- | SHEET NO. | TITLE |
|-----------|--|
| 1 OF 37 | TITLE, LOCATION MAP, AND INDEX OF DRAWINGS. |
| 2 OF 37 | SITE LAYOUT PLAN. |
| 3 OF 37 | SITE GRADING PLAN. |
| 4 OF 37 | ELEVATIONS-PUMP STATION AND CONTROL BUILDING STRUCTURES. |

PUMP STATION

- | | |
|----------|--|
| 5 OF 37 | FLOOR AND PIPING PLAN. |
| 6 OF 37 | LONGITUDINAL AND TRANSVERSE SECTIONS. |
| 7 OF 37 | FOUNDATION PLAN. |
| 8 OF 37 | REINFORCEMENT SECTIONS. |
| 9 OF 37 | REINFORCEMENT SECTIONS. |
| 10 OF 37 | BAR SCREEN DETAILS - DELETED SEE SHEET 10A |
| 11 OF 37 | SECTIONS AT PUMP LOCATIONS. |
| 12 OF 37 | GRATING PLAN AND DETAILS. |
| 13 OF 37 | MISCELLANEOUS DETAILS. |

CONTROL BUILDING

- | | |
|----------|---|
| 14 OF 37 | FOUNDATION, FLOOR ROOF FRAMING AND ELEVATIONS. |
| 15 OF 37 | WALL SECTIONS, DOOR AND PANEL CONNECTION DETAILS. |
| 16 OF 37 | 24" DISCHARGE LINES-PLAN AND PROFILE STA. 0+50 TO STA. 5+77.02. |
| 17 OF 37 | BIKE PATH AND ENERGY DISSIPATOR GRADING LAYOUT. |
| 18 OF 37 | PIPE SUPPORT AND CONCRETE ENCASEMENT DETAILS. |
| 19 OF 37 | 66" STORM DRAIN-STA. 0+00 TO STA. 1+50.06 AND JUNCTION BOX DETAILS. |

PLAN AND PROFILE-IRON AVE. STORM DRAIN.

- | | |
|----------|------------------------------|
| 20 OF 37 | STA. 0+00 TO STA. 2+30.0 |
| 21 OF 37 | STA. 2+30 TO STA. 6+48.53 |
| 22 OF 37 | STA. 6+48.53 TO STA. 8+07.53 |

PLAN AND PROFILE-COUNTRY CLUB STORM DRAIN.

- | | |
|----------|-------------------------------|
| 23 OF 37 | STA. 0+00 TO STA. 5+60.0 |
| 24 OF 37 | STA. 5+60.0 TO STA. 11+10.0 |
| 25 OF 37 | STA. 11+10.0 TO STA. 16+60.0 |
| 26 OF 37 | STA. 16+60.0 TO STA. 22+10.0 |
| 27 OF 37 | STA. 22+10.0 TO STA. 27+10.0 |
| 28 OF 37 | STA. 27+10.0 TO STA. 31+20.0 |
| 29 OF 37 | STA. 31+20.0 TO STA. 36+75.0 |
| 30 OF 37 | STA. 36+75.0 TO STA. 42+25.0 |
| 31 OF 37 | STA. 42+25.0 TO STA. 45+65.78 |

VALVE LOCATION PLAN

- | | |
|----------|---|
| 32 OF 37 | EXISTING WATER LINE LAYOUT AND VALVE LOCATION |
|----------|---|

TRAFFIC CONTROL

- | | |
|----------|---|
| 33 OF 37 | TRAFFIC CONTROL PLAN-ALCALDE PL., TINGLEY DR. AND IRON AVE. S.W. |
| 34 OF 37 | TRAFFIC CONTROL PLAN-KIT CARSON AVE., LAGUNA BLVD. & SAN PASQUALE |

ELECTRICAL

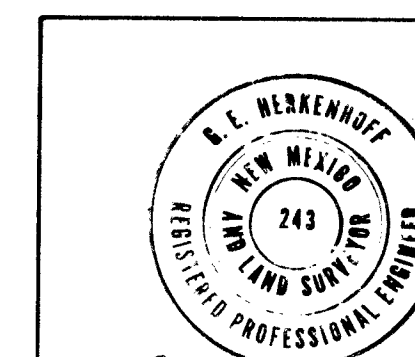
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|----------|---|
| 35 OF 37 | ELECTRICAL PLANS - CONTROL BUILDING AND STATION |
| 36 OF 37 | RISER DIAGRAMS SCHEDULES AND DETAILS |
| 37 OF 37 | RECEPTACLES DETAILS AND TRANSFORMER ENCLOSURE |

10A OF 37
83001 TO 83012

BAR SCREEN DETAILS RECORD DRAWING AUGUST, 1984
CONTROL PANEL LAYOUT

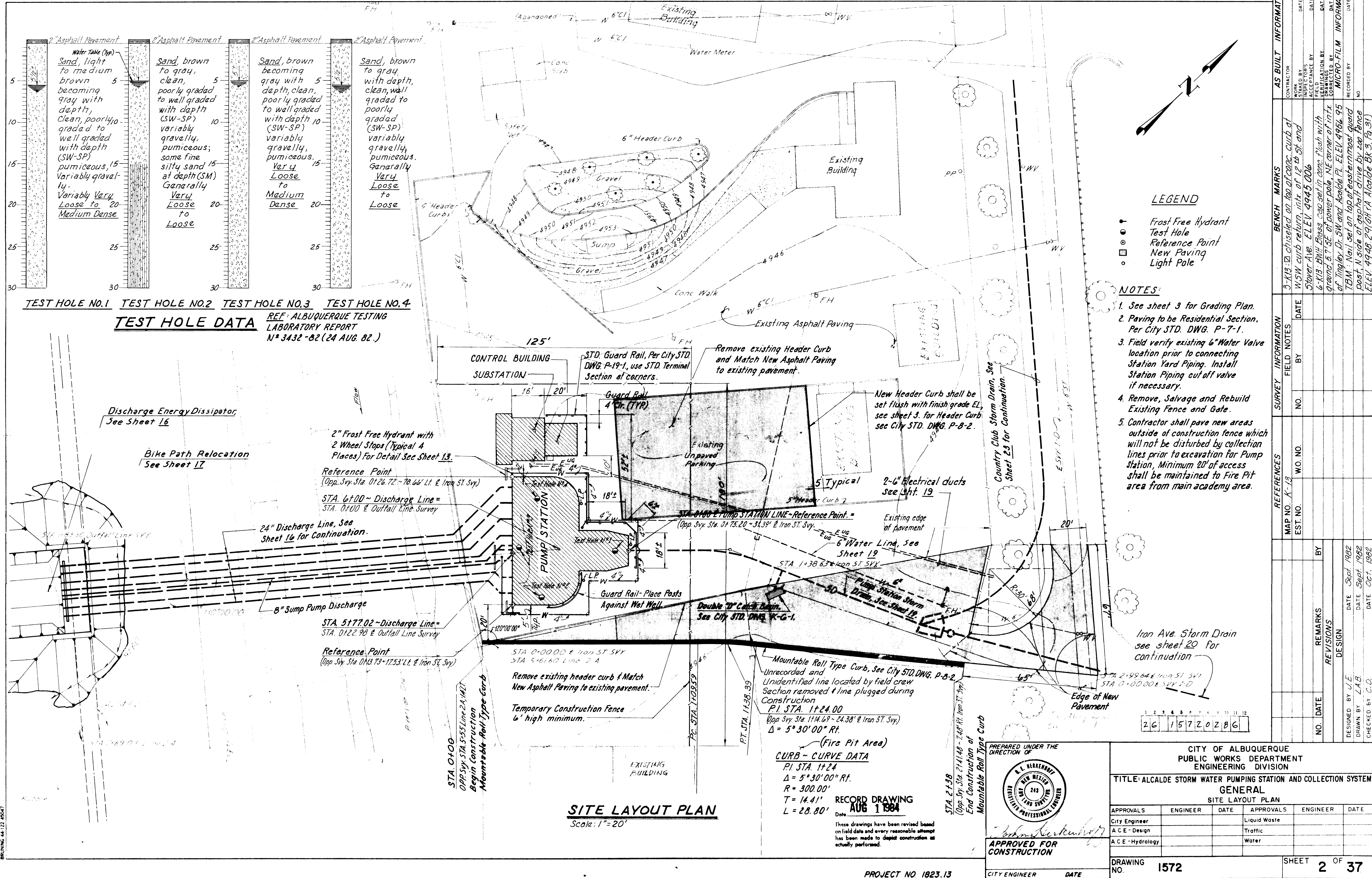
26 15720186

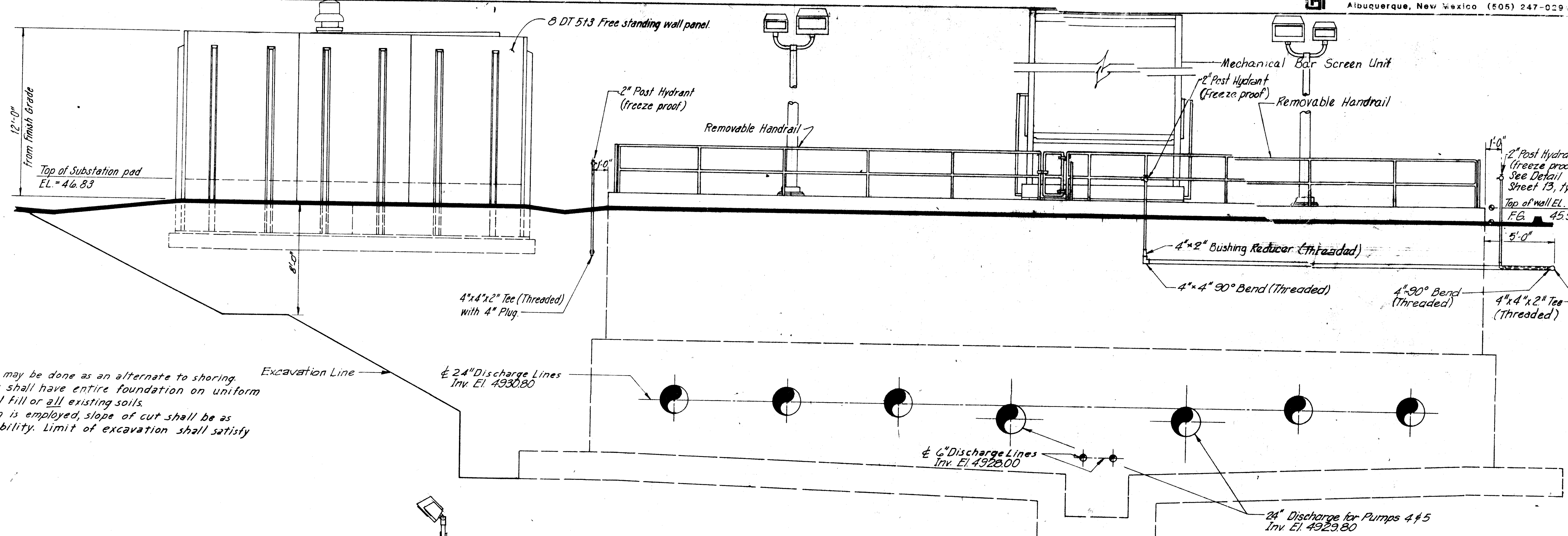
W.F. McPherson
1-10-86



APPROVED FOR
CONSTRUCTION
CITY ENGINEER
DATE

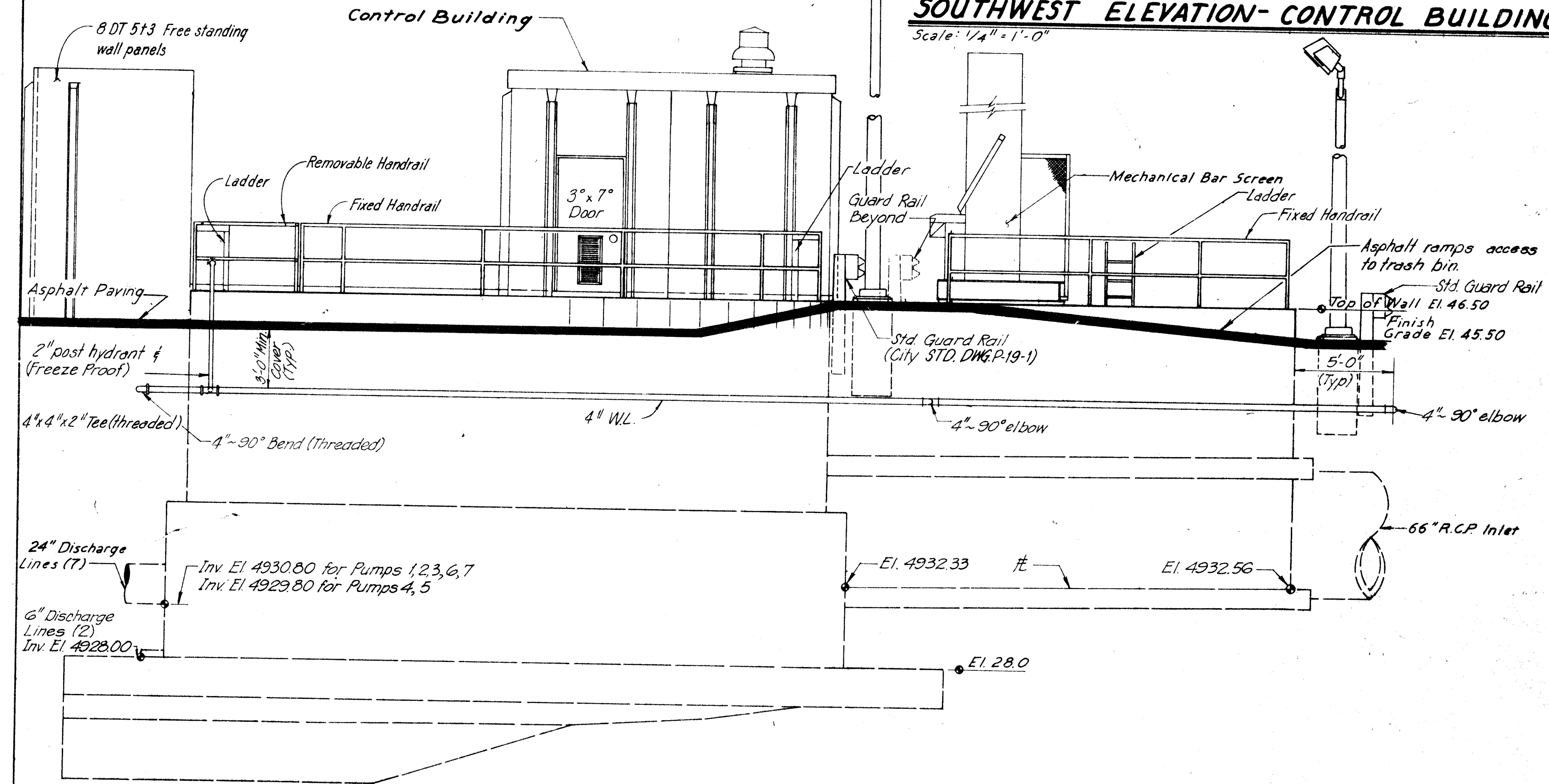
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM					
GENERAL					
TITLE, LOCATION MAP and INDEX OF DRAWINGS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	R. S. Hellebrand	11/18/82	Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology	Jim Zink	11/13/82	Water		
DRAWING NO. 1572			SHEET 1 OF 37		





NOTE:
1. Over-Excavation may be done as an alternate to shoring.
2. Control Building shall have entire foundation on uniform material, i.e.: all fill or all existing soils.
3. If Over-Excavation is employed, slope of cut shall be as required for stability. Limit of excavation shall satisfy Note 2 above.

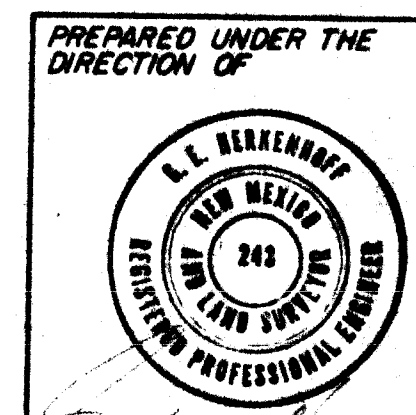
SOUTHWEST ELEVATION- CONTROL BUILDING & PUMP STATION
Scale: 1/4" = 1'-0"



SOUTHEAST ELEVATION- CONTROL BUILDING & PUMP STATION
Scale: 1/4" = 1'-0"

RECORD DRAWING
AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

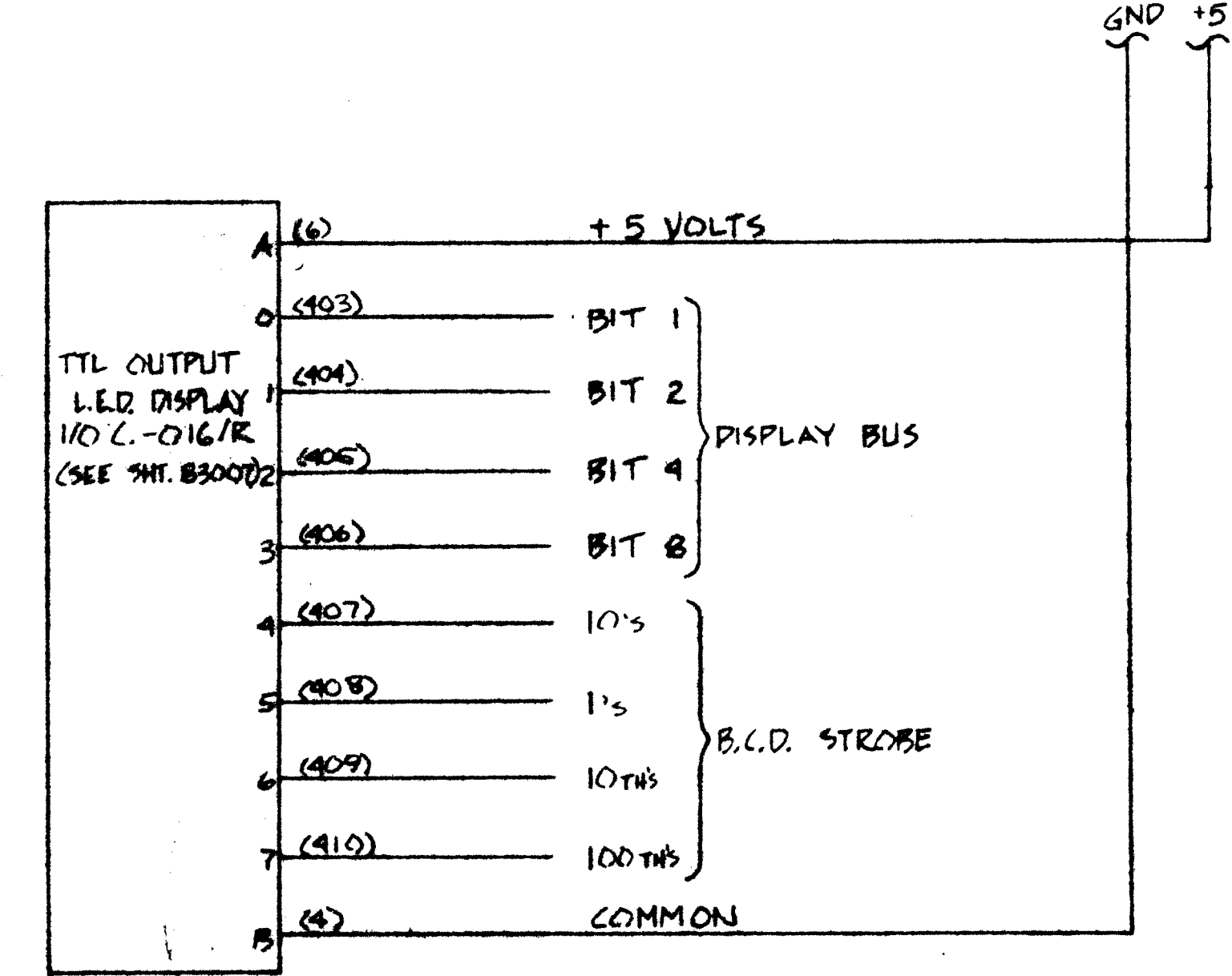
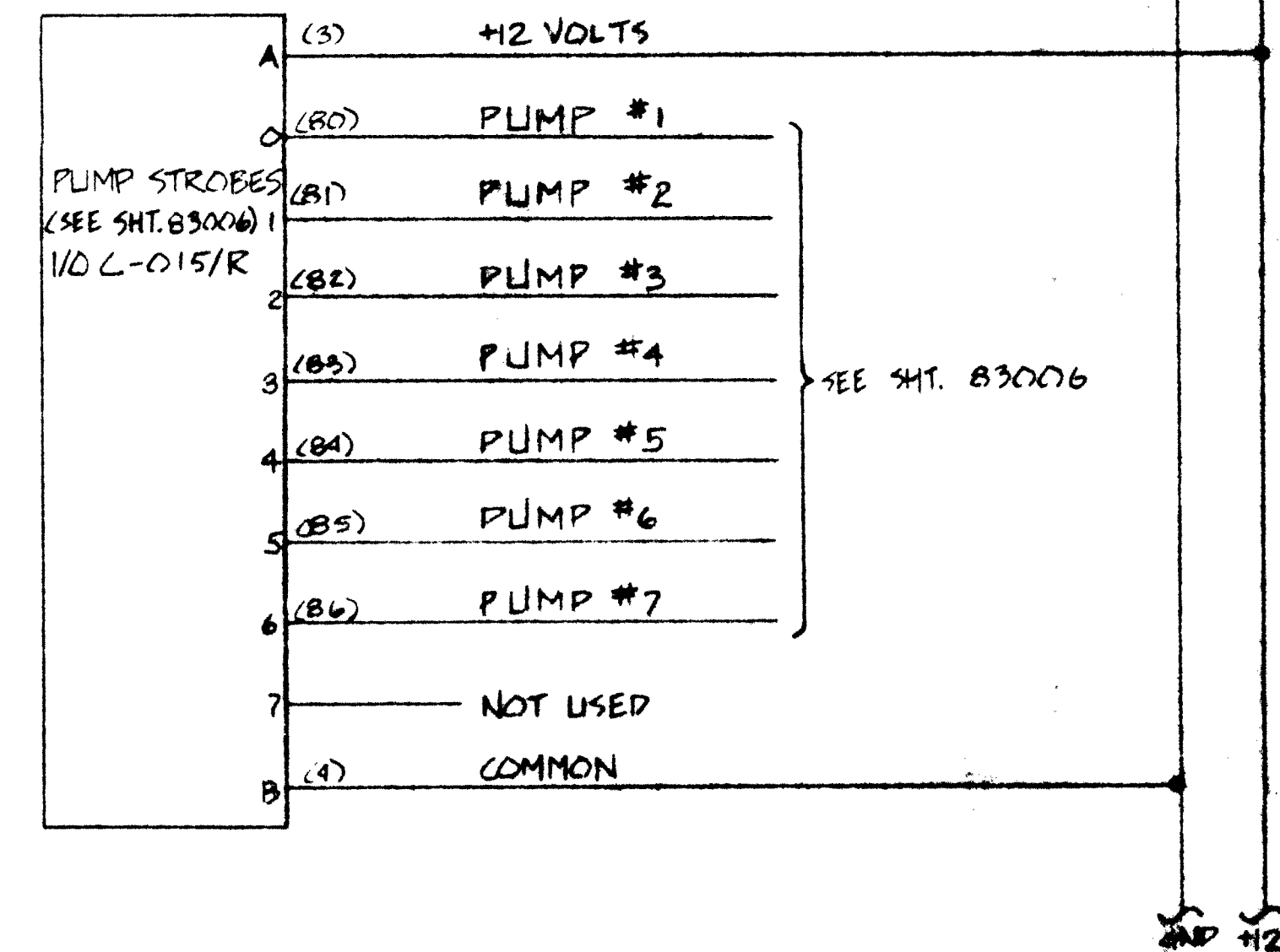
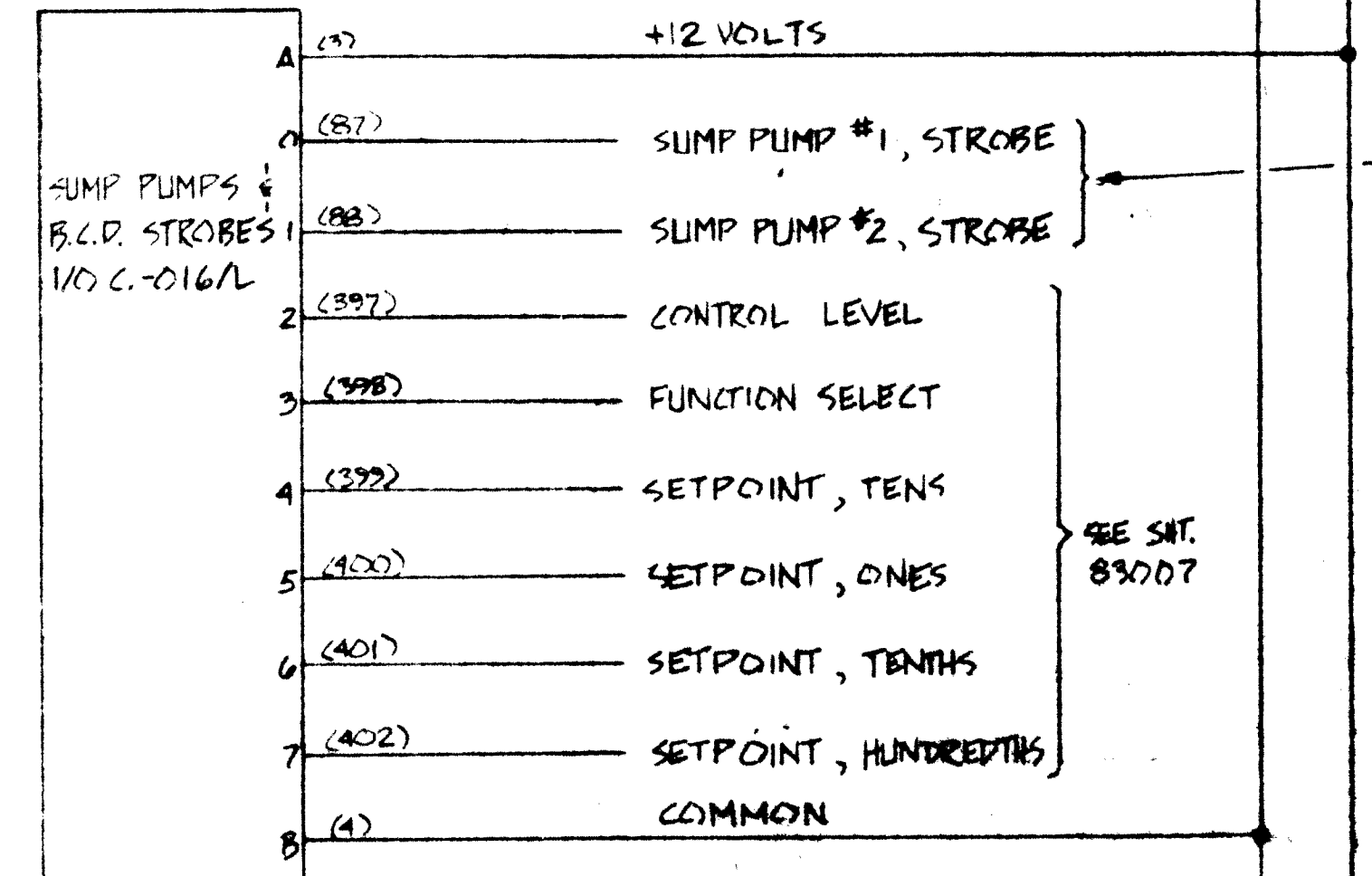
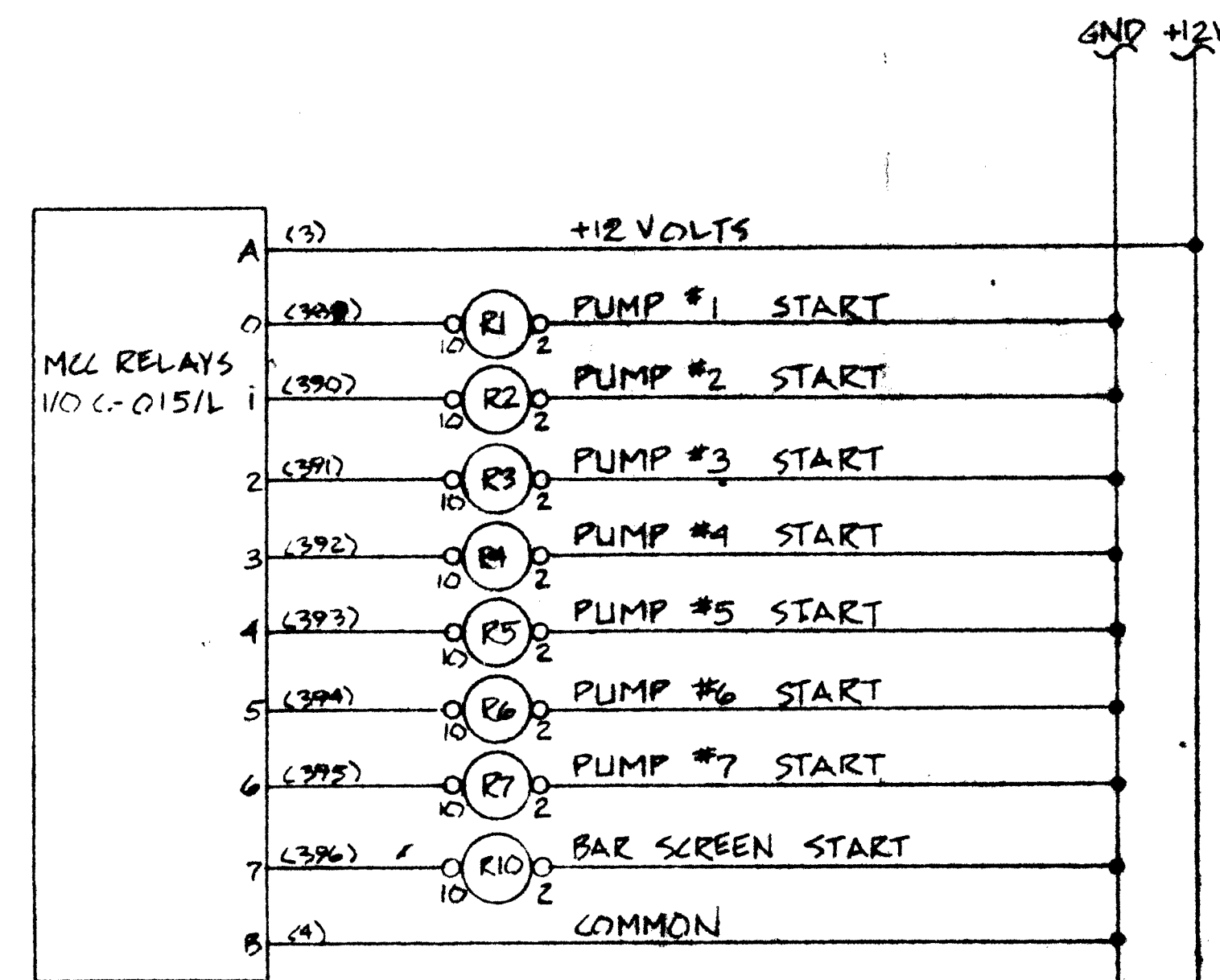
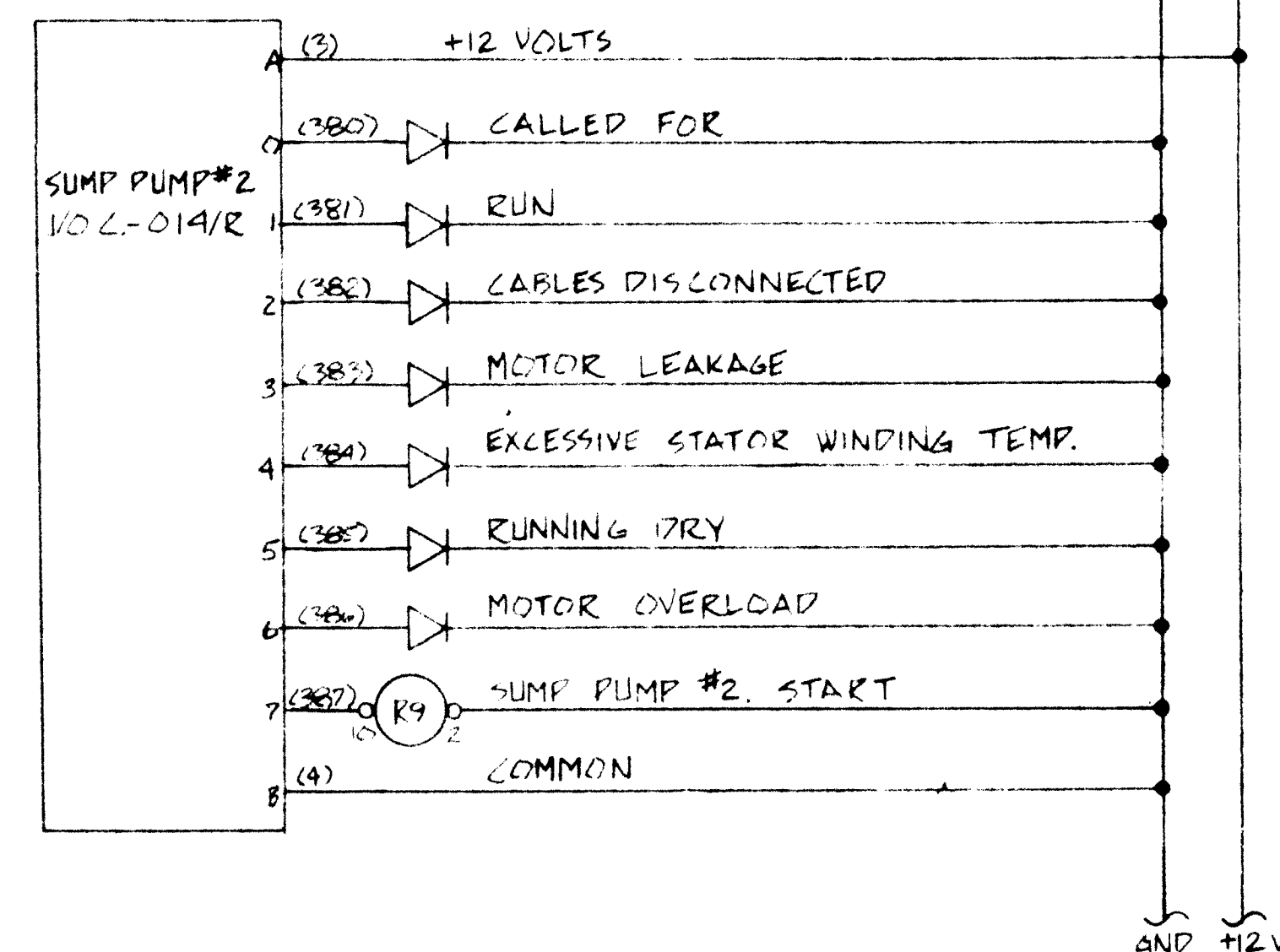
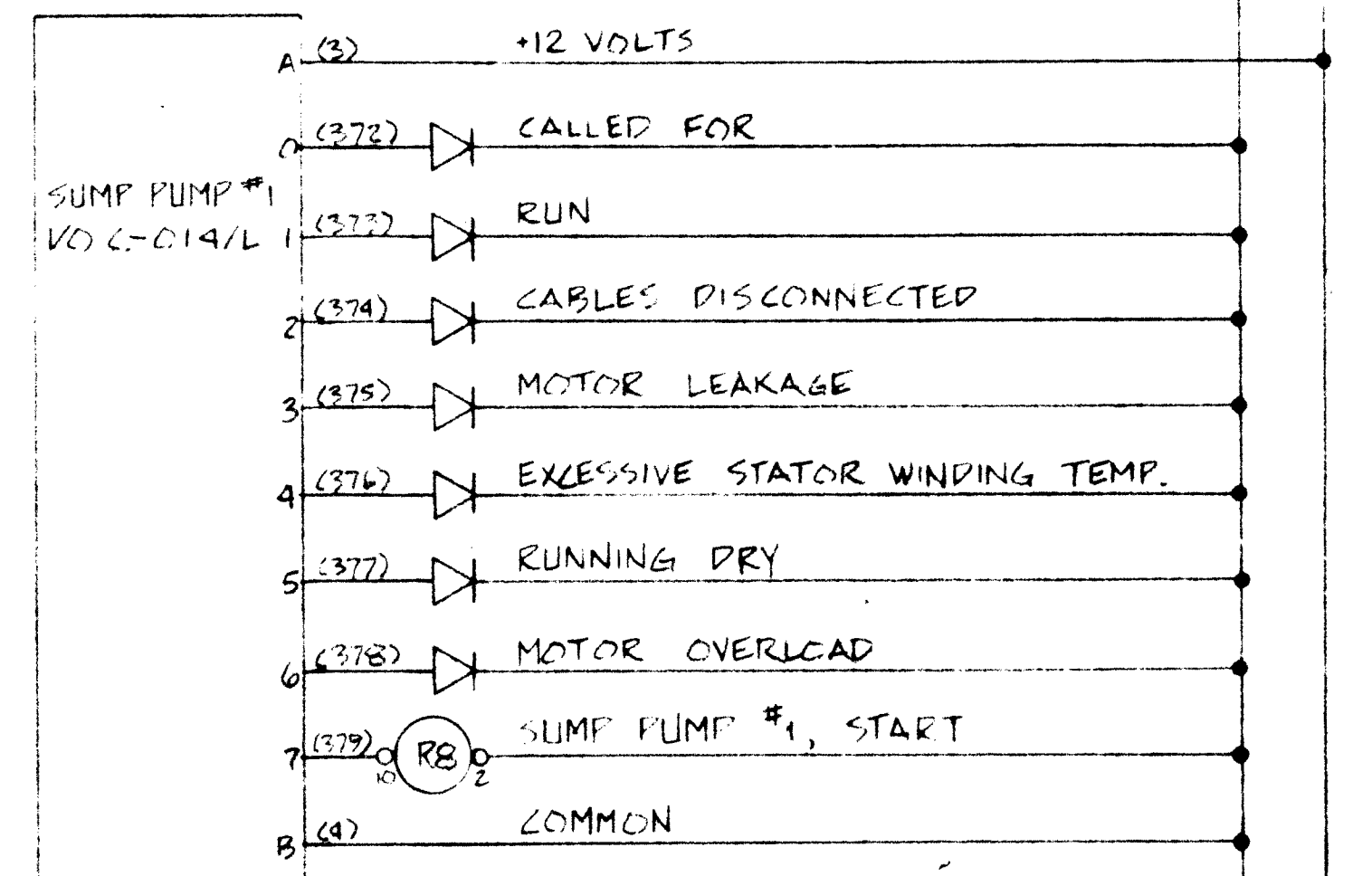
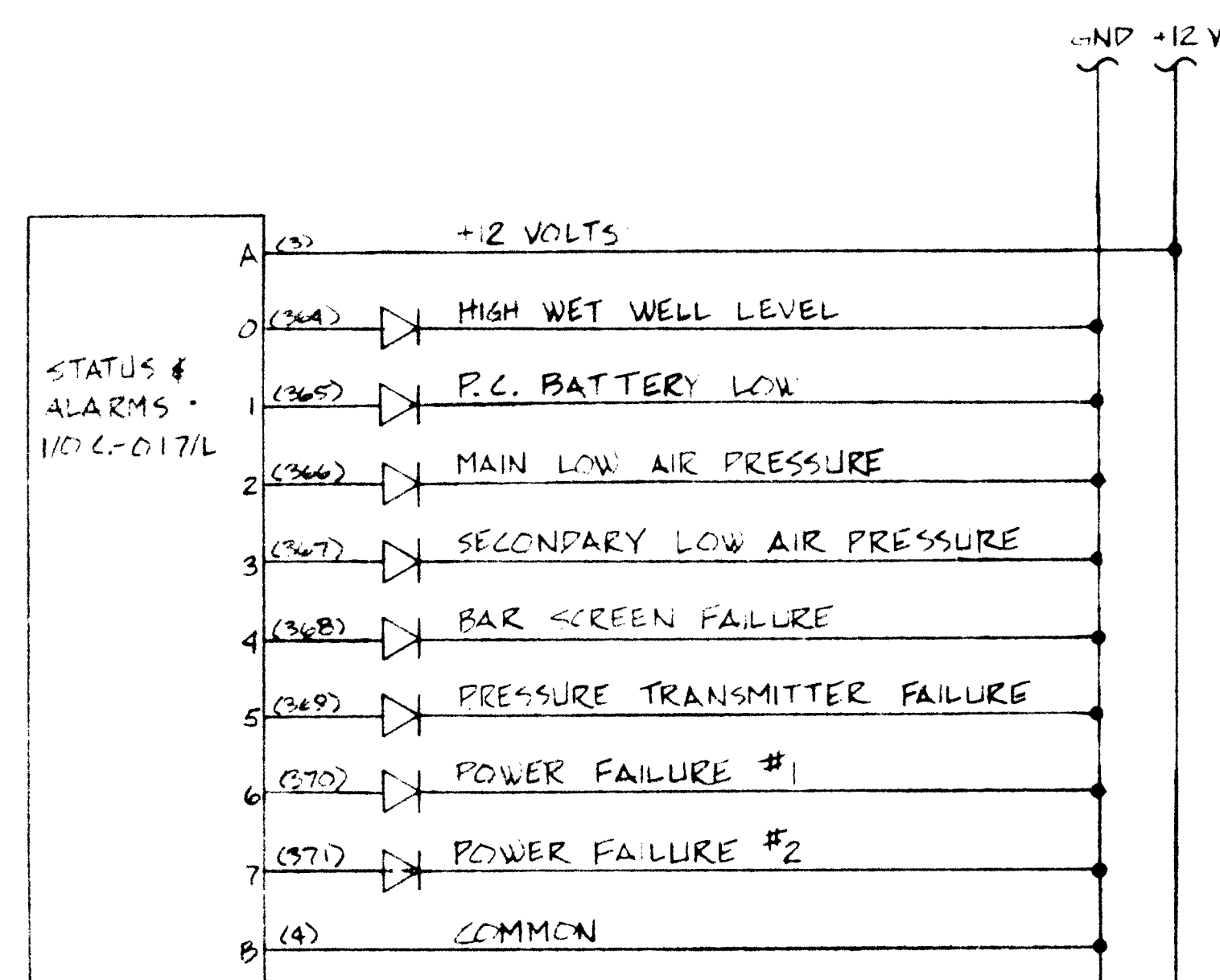


APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

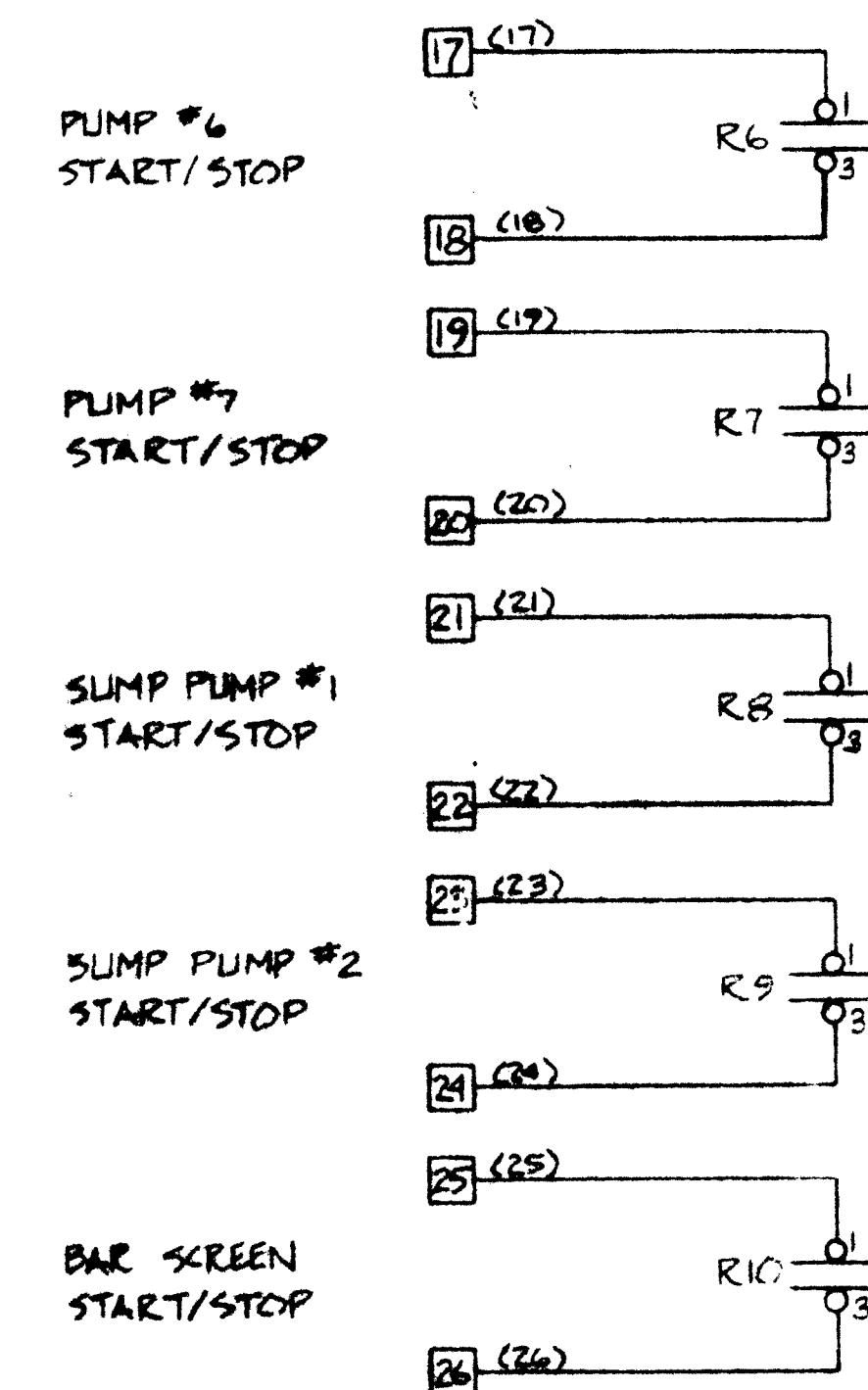
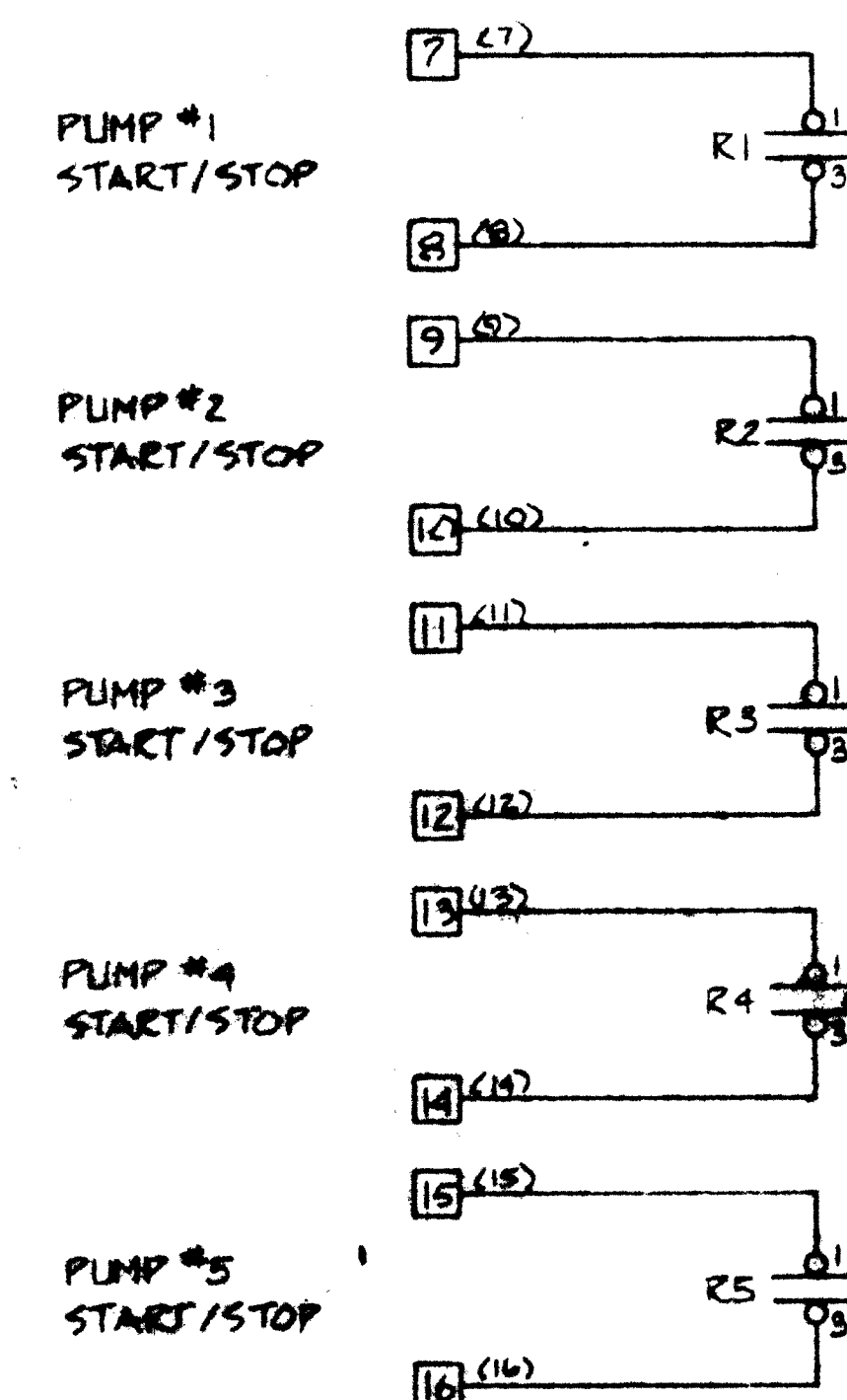
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM					
GENERAL					
ELEVATIONS - PUMP STATION AND CONTROL BUILDING STRUCTURES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO. 1572			SHEET 4 OF 37		

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			REFERENCES		
CONTRACTOR	DATE	BY	CONTRACTOR	DATE	BY	MAP NO.	EST. NO.	WO. NO.	MAP NO.	EST. NO.	WO. NO.
3-K13: 1 checked on top of conc. curb at WSW			3-K13: 1 checked on top of conc. curb at WSW								
STAKED BY	DATE	BY	STAKED BY	DATE	BY						
INSPECTED BY	DATE	BY	INSPECTED BY	DATE	BY						
FILED BY	DATE	BY	FILED BY	DATE	BY						
VERIFICATION BY	DATE	BY	VERIFICATION BY	DATE	BY						
CORRECTED BY	DATE	BY	CORRECTED BY	DATE	BY						
MICRO-FILM INFORMATION			MICRO-FILM INFORMATION			REVISIONS			REVISIONS		
RECORDED BY	DATE	BY	RECORDED BY	DATE	BY	DESIGNED BY	DATE	BY	DESIGNED BY	DATE	BY
						J.E.	Sept. '82		J.E.	Sept. '82	
						DRAWN BY	Sept. '82		K.K.	Sept. '82	
						CHECKED BY	Oct. '82		C.O.	Oct. '82	



NOTES- 1. ALL DIODES SHOWN ON THIS DRAWING ARE LIGHT EMITTING.
2. I/O C. - INPUT/OUTPUT CARD
3. TB1 - 1 thru 79
TB2 - 80 thru 147
TB3 - 148 thru 215
TB4 - 216 thru 283
TB5 - DC POWER CONNECTIONS

SEE SHT. 83006



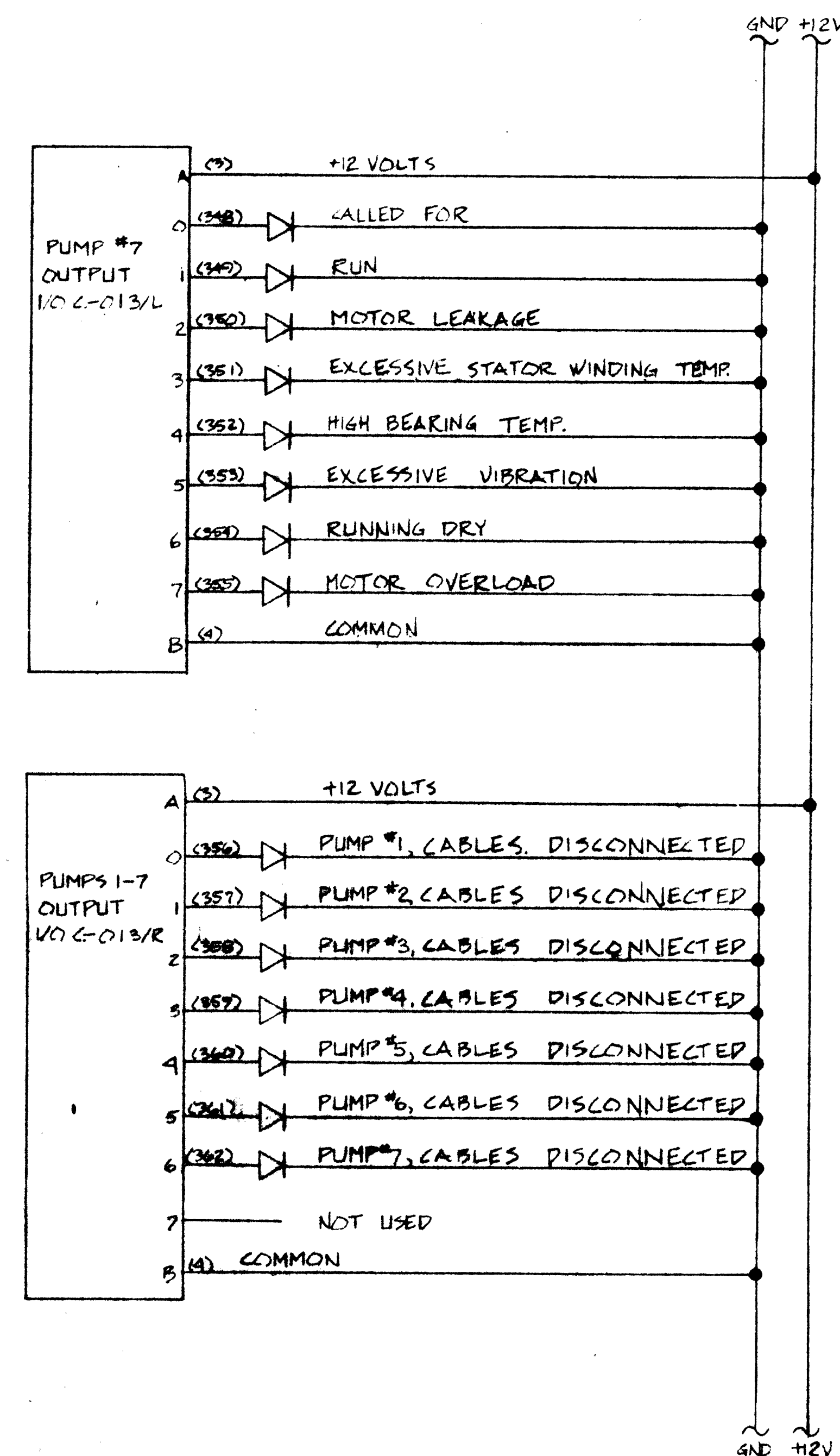
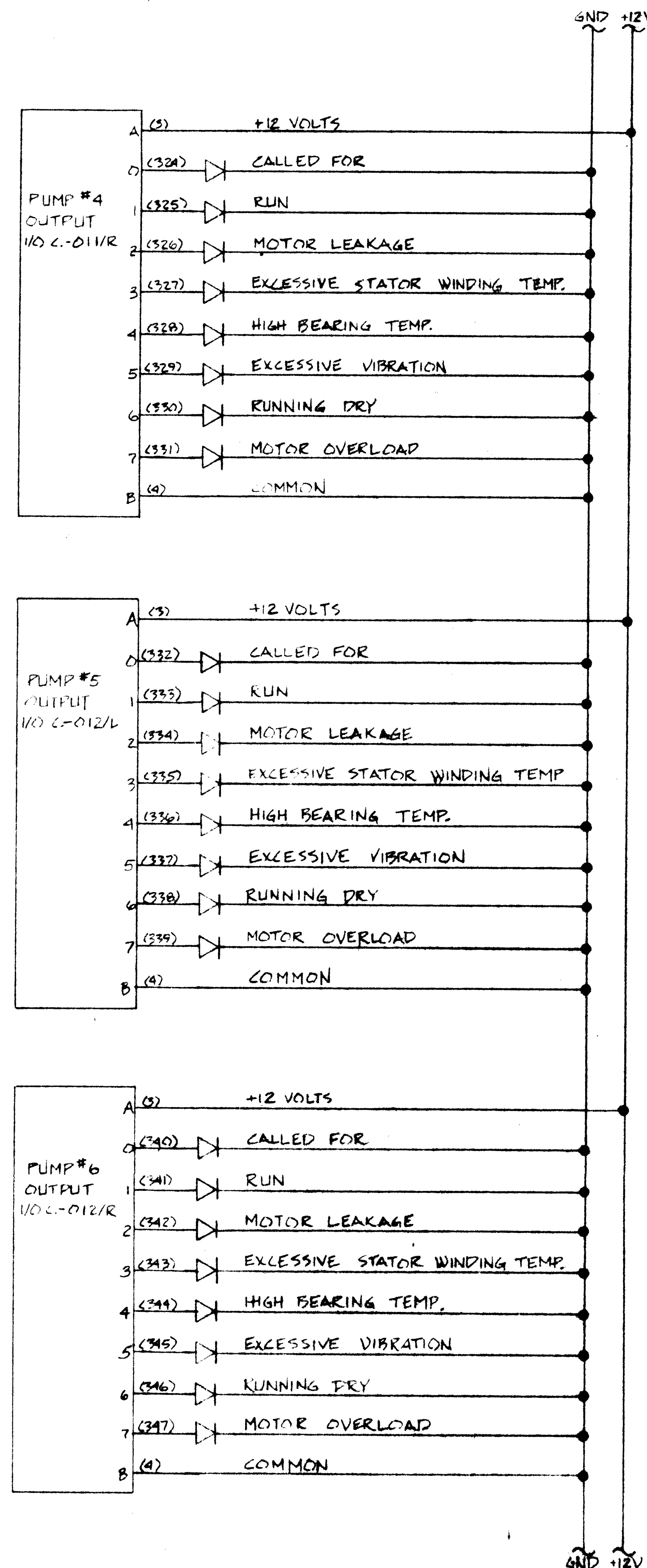
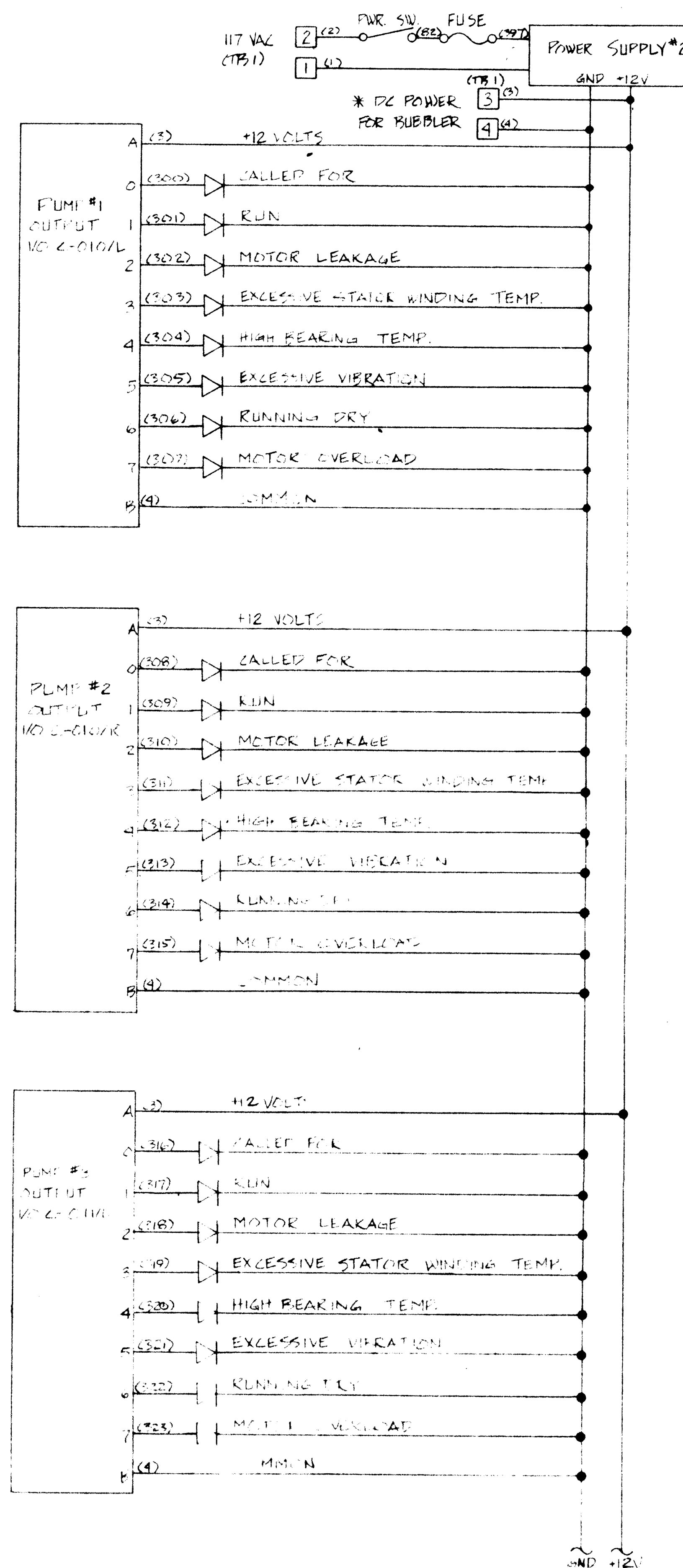
CONTINUED ON SHT. 83005

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2 6 1 5 7 2 0 4 8 6

1572

BFANM Systems Division			
ALBUQUERQUE, NM			
2 MAY 83	NO SCALE		
PROGRAMMABLE CONTROLLER			
OUTPUT MODULES			
CITY OF ALBUQUERQUE, NM			83004-420 Sheet 2 of 2

REVISIONS



NOTES - 1. ALL DIODES SHOWN ARE LIGHT EMITTING DIODES.
2. I/O C- INPUT/OUTPUT CARD
3. XXX/X
L LEFT OR RIGHT
MODULE GROUP
BACK NUMBER
O OUTPUT / I INPUT

4. WIRING COLOR CODE
YELLOW - TELEMETRY
BLUE - 120VAC CONTROL
RED - LOW VOLTAGE DC
BROWN - GROUND OR COMMON
BLACK - HOT AC
WHITE - NEUTRAL AC

1 2 3 4 5 6 7 8 9 10 11 12
216 15720486

1572

BFANM Systems Division

ALBUQUERQUE, NM

29 April 83

NO SCALE

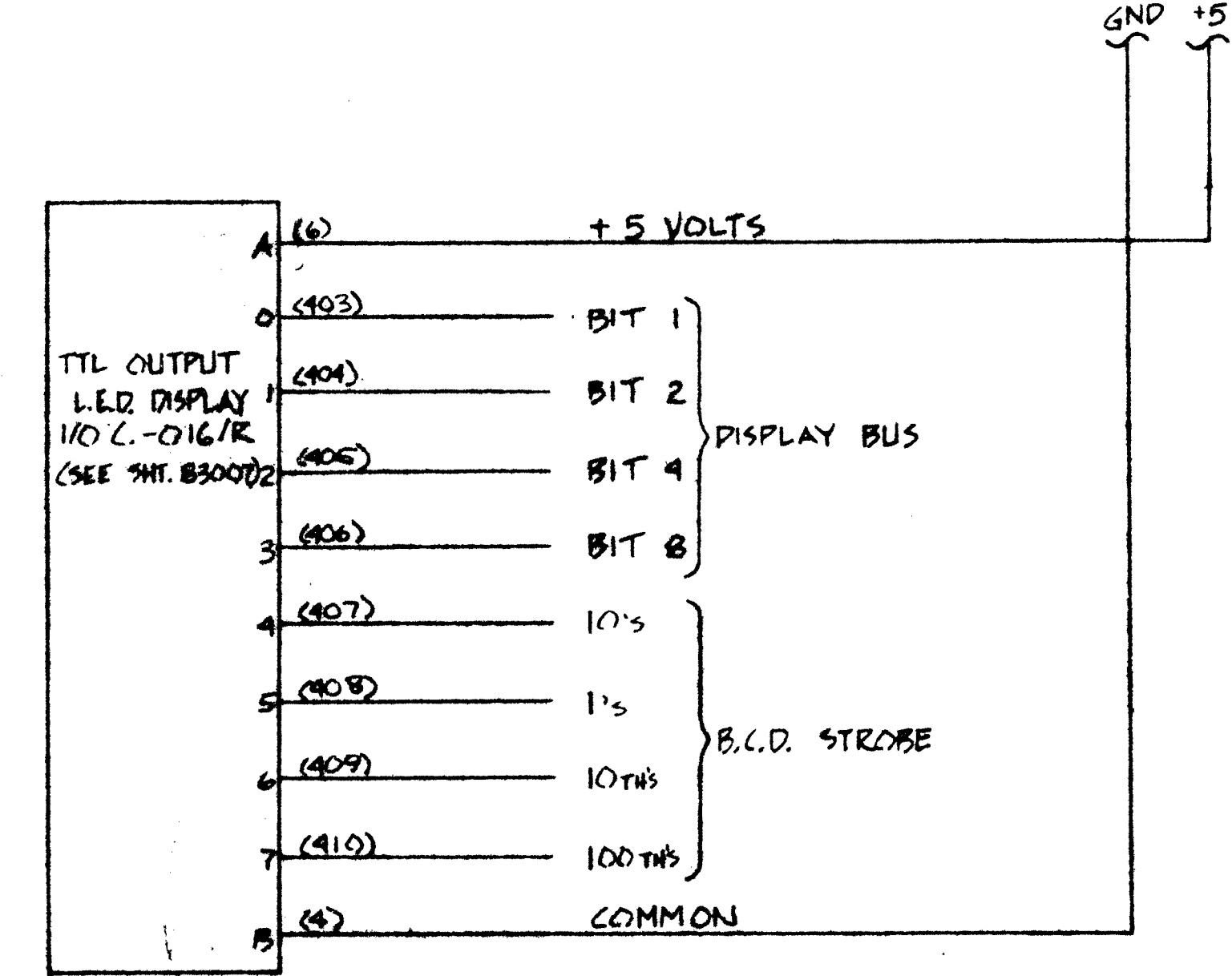
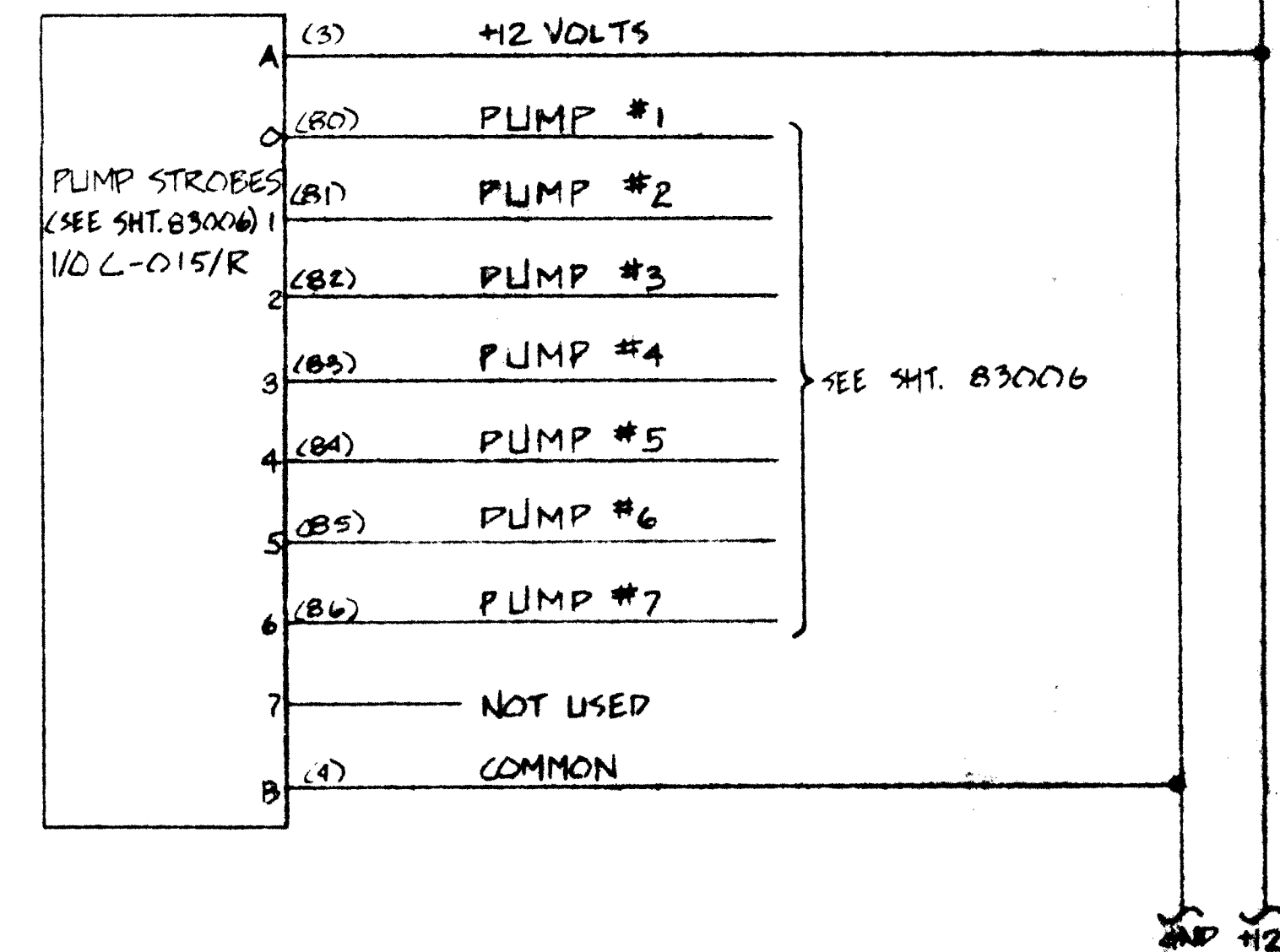
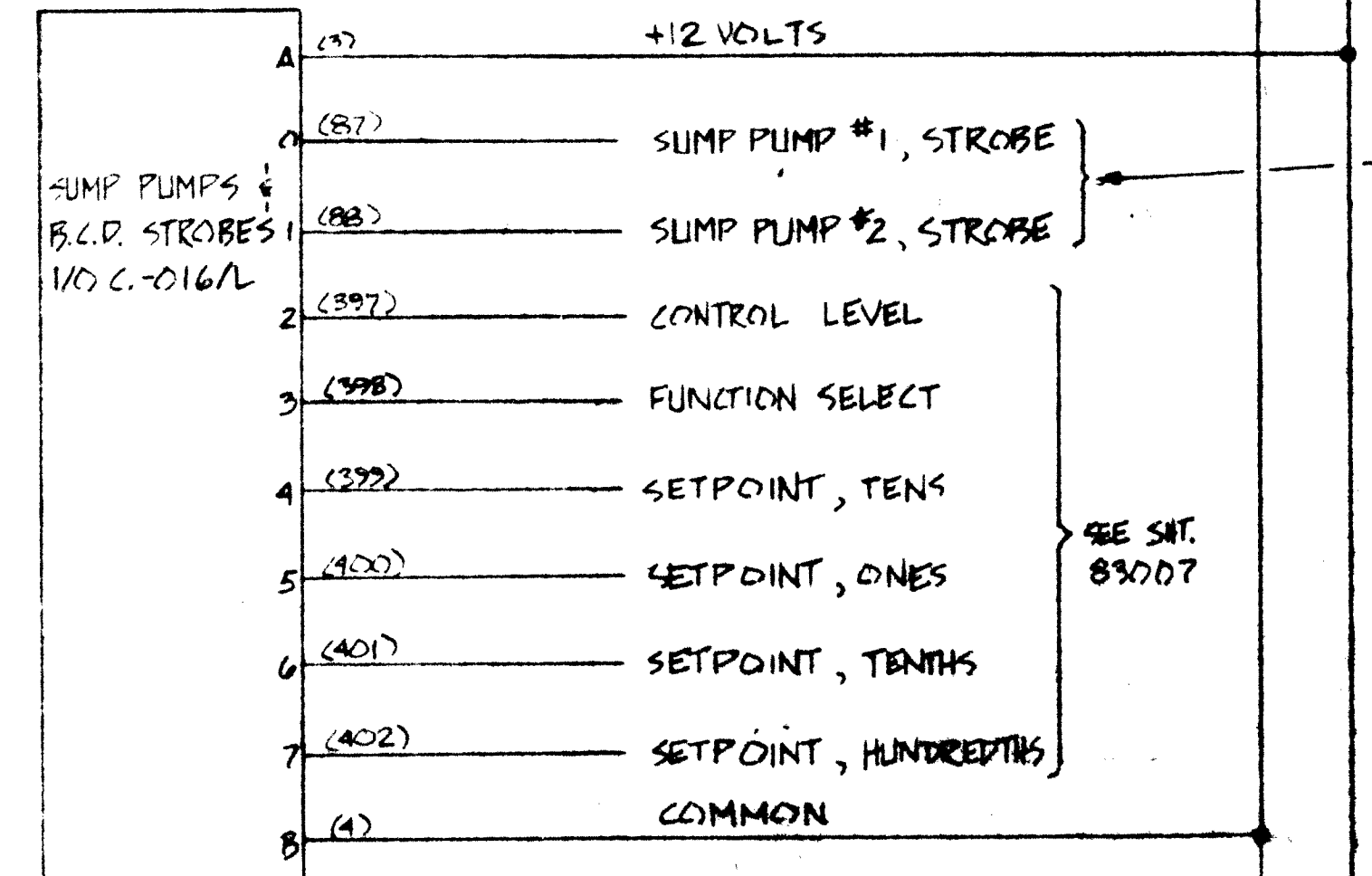
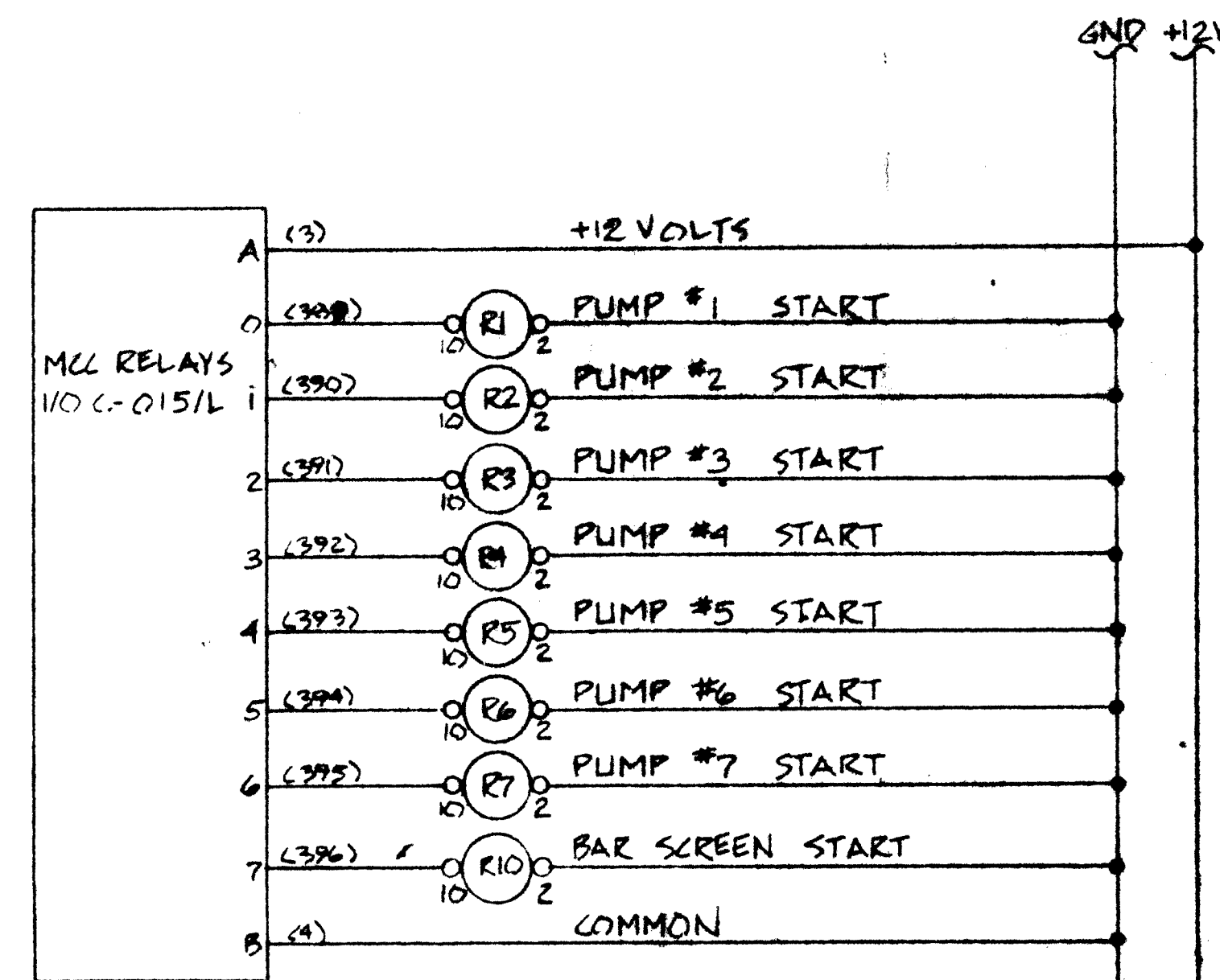
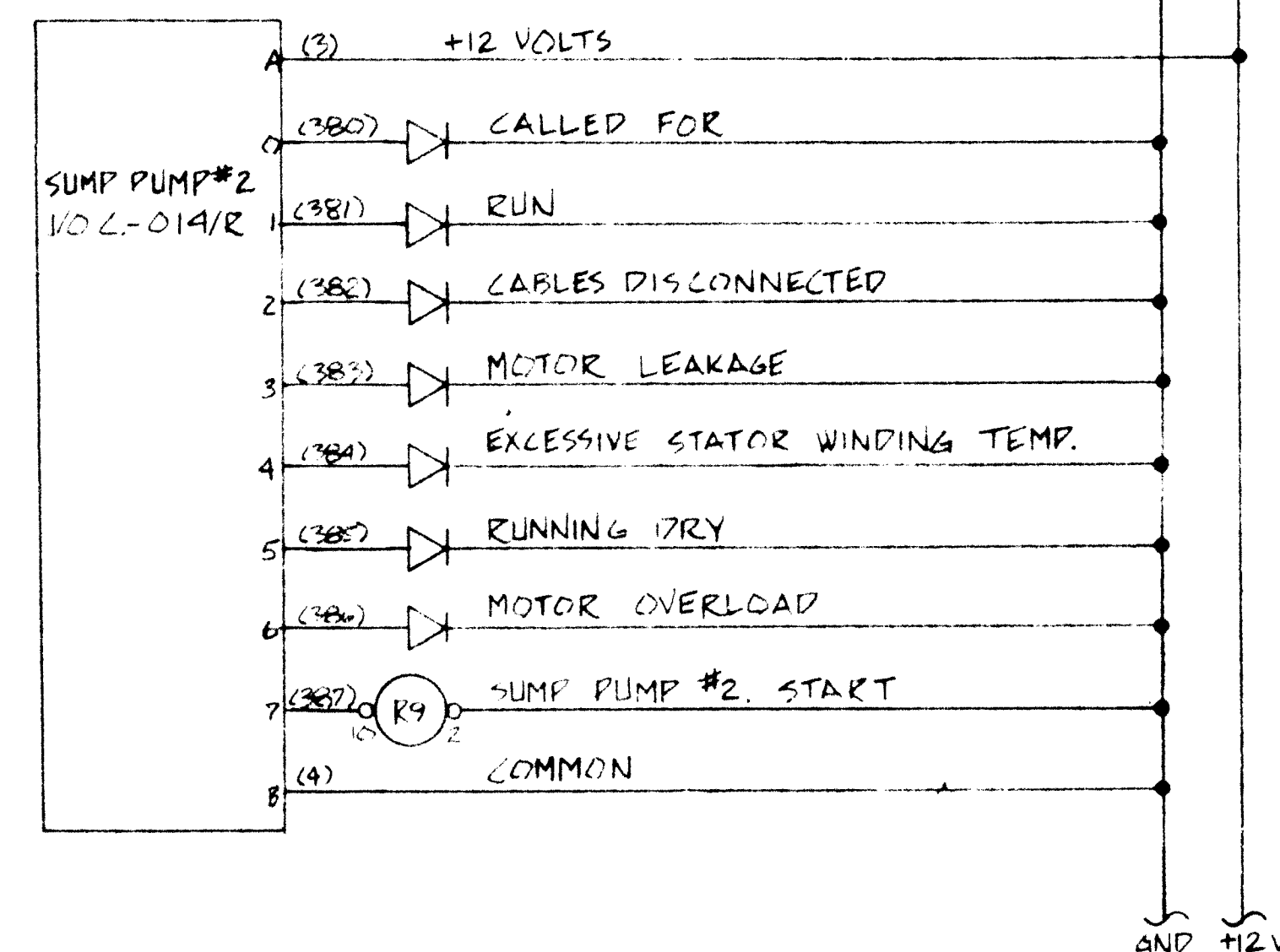
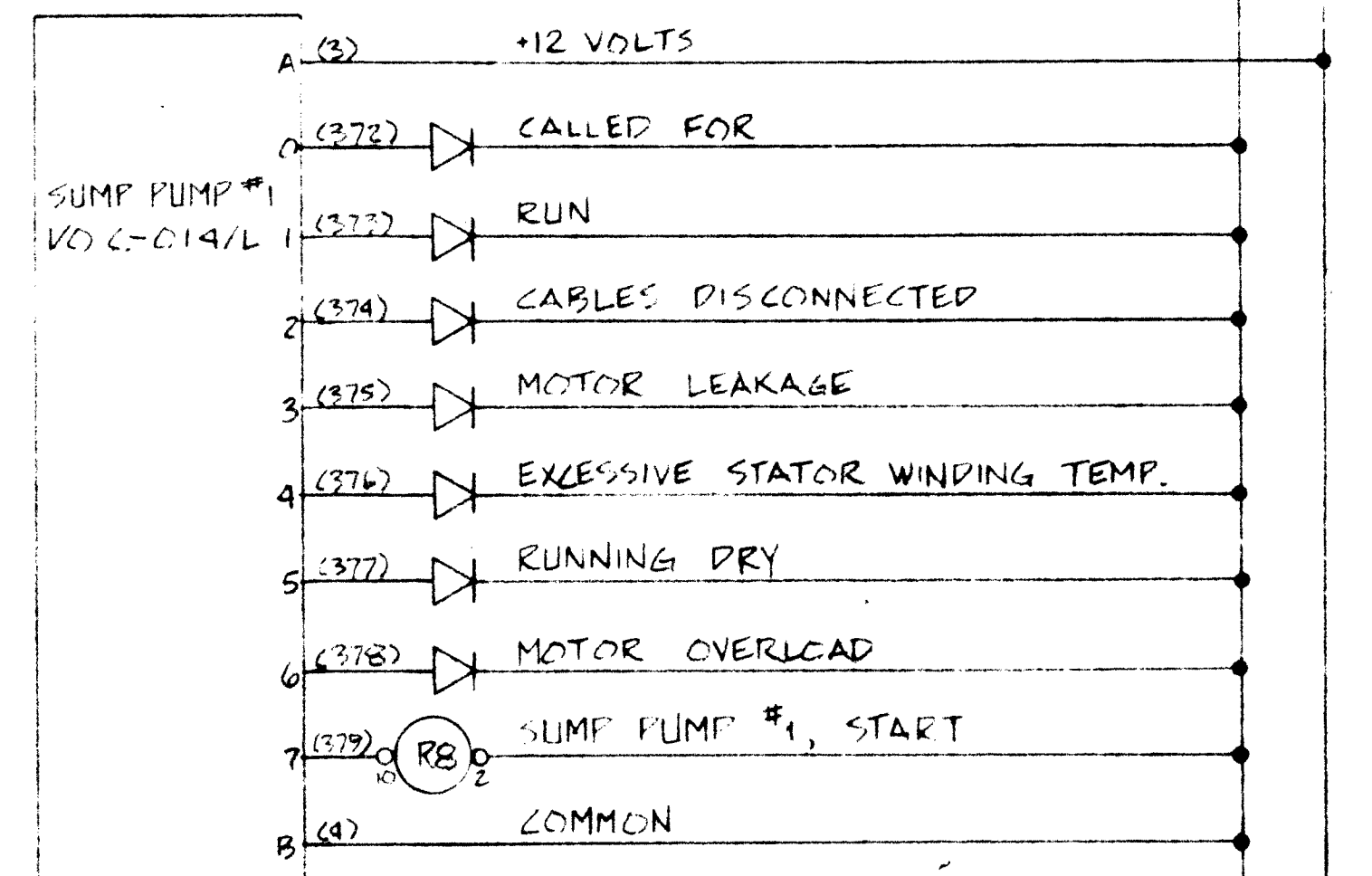
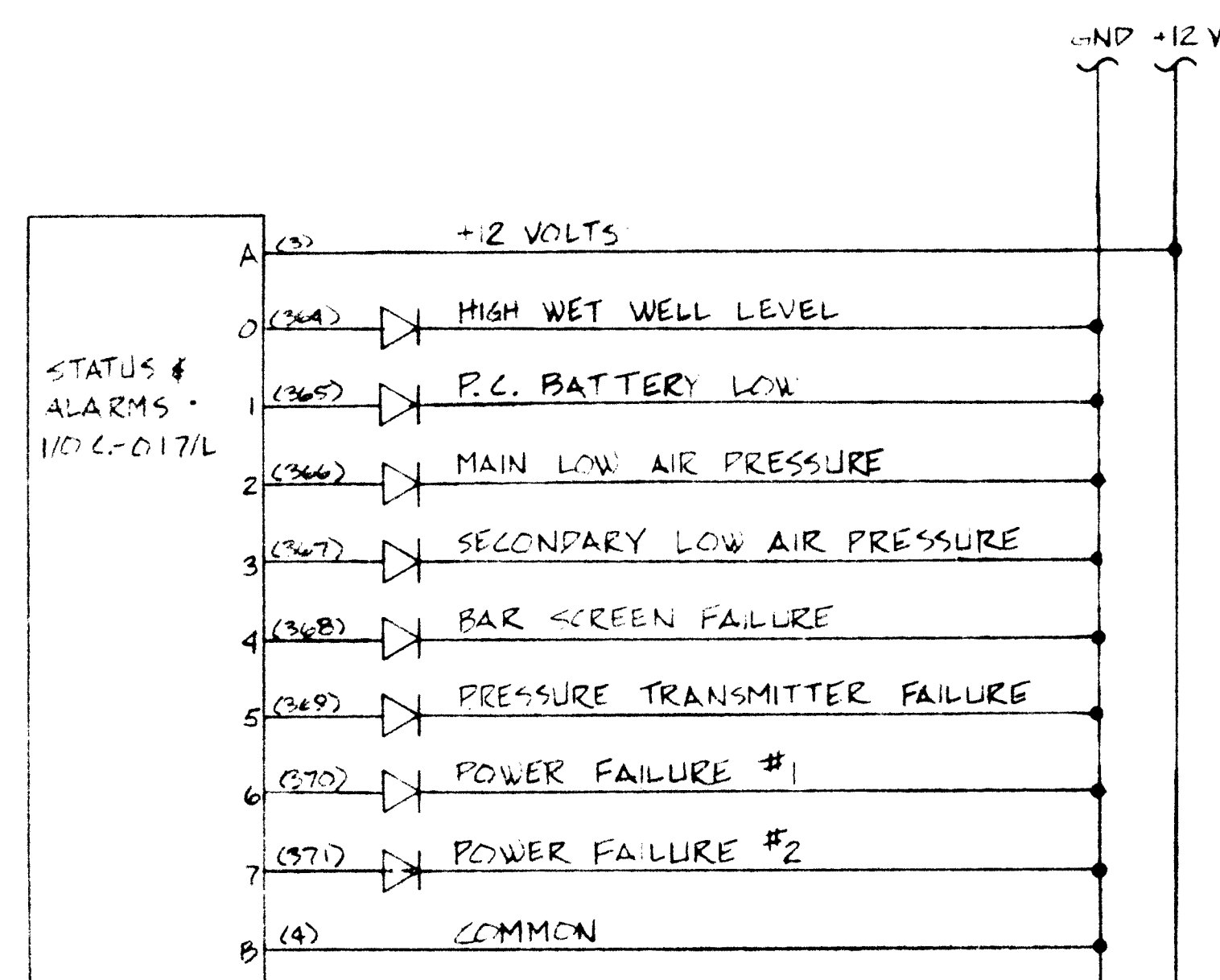
PROGRAMMABLE CONTROLLER
OUTPUT MODULES

8 JUN 83 - PER CHANGE ORDER

REVISIONS

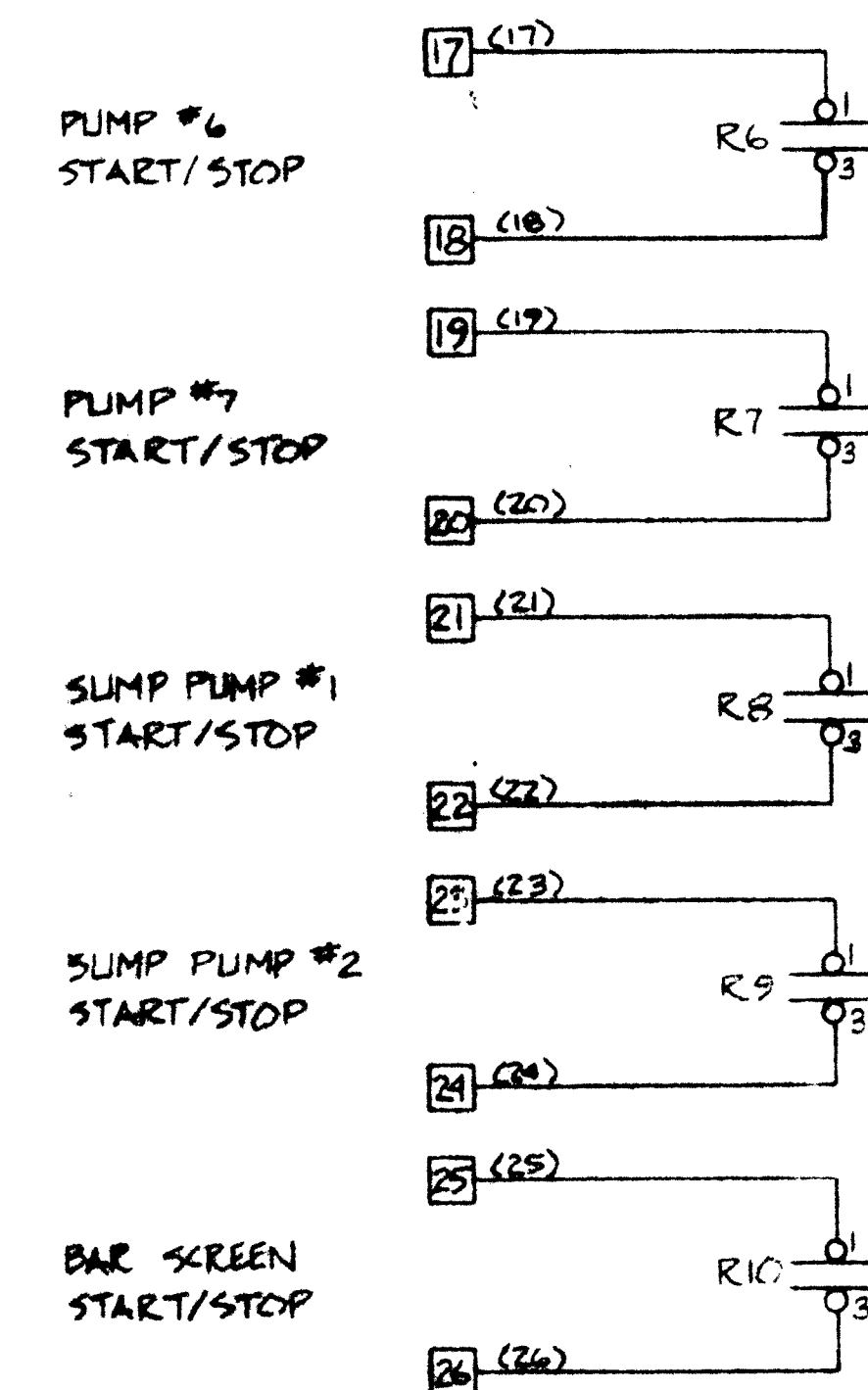
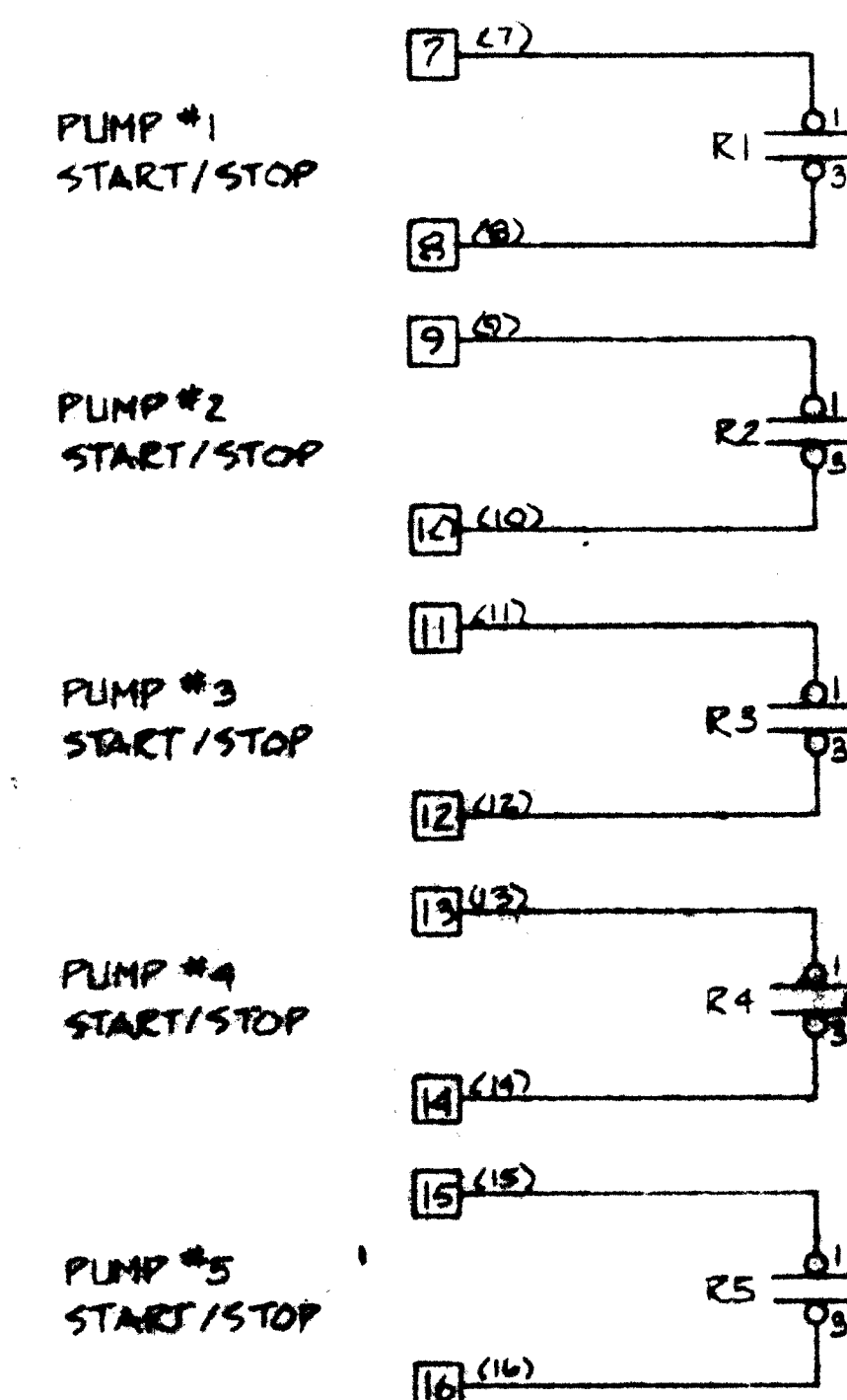
CITY OF ALBUQUERQUE, NM

83004-420
Sheet 1 of 2



NOTES- 1. ALL DIODES SHOWN ON THIS DRAWING ARE LIGHT EMITTING.
2. I/O C. - INPUT/OUTPUT CARD
3. TB1 - 1 thru 79
TB2 - 80 thru 147
TB3 - 148 thru 215
TB4 - 216 thru 283
TB5 - DC POWER CONNECTIONS

SEE SHT. 83006



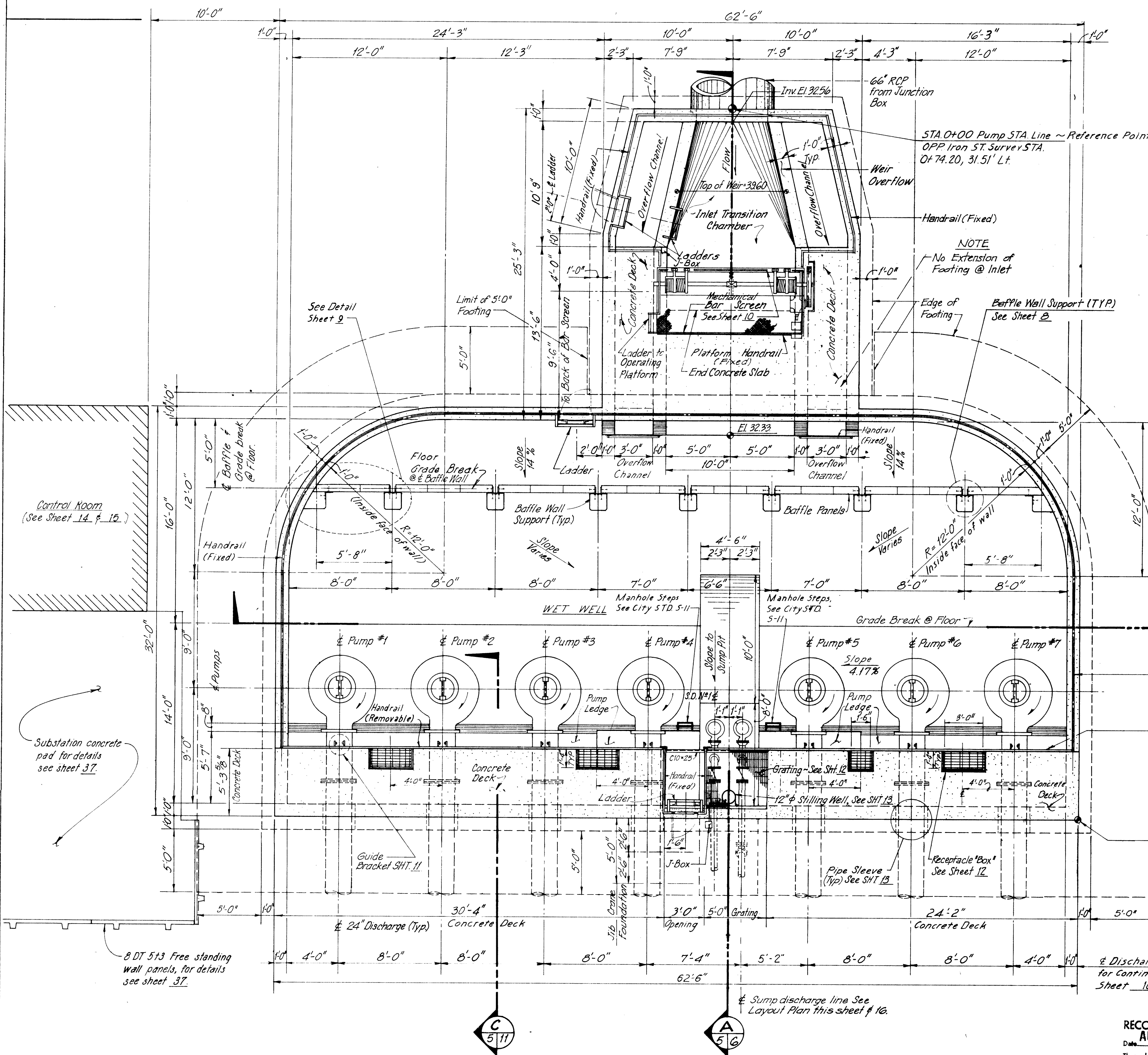
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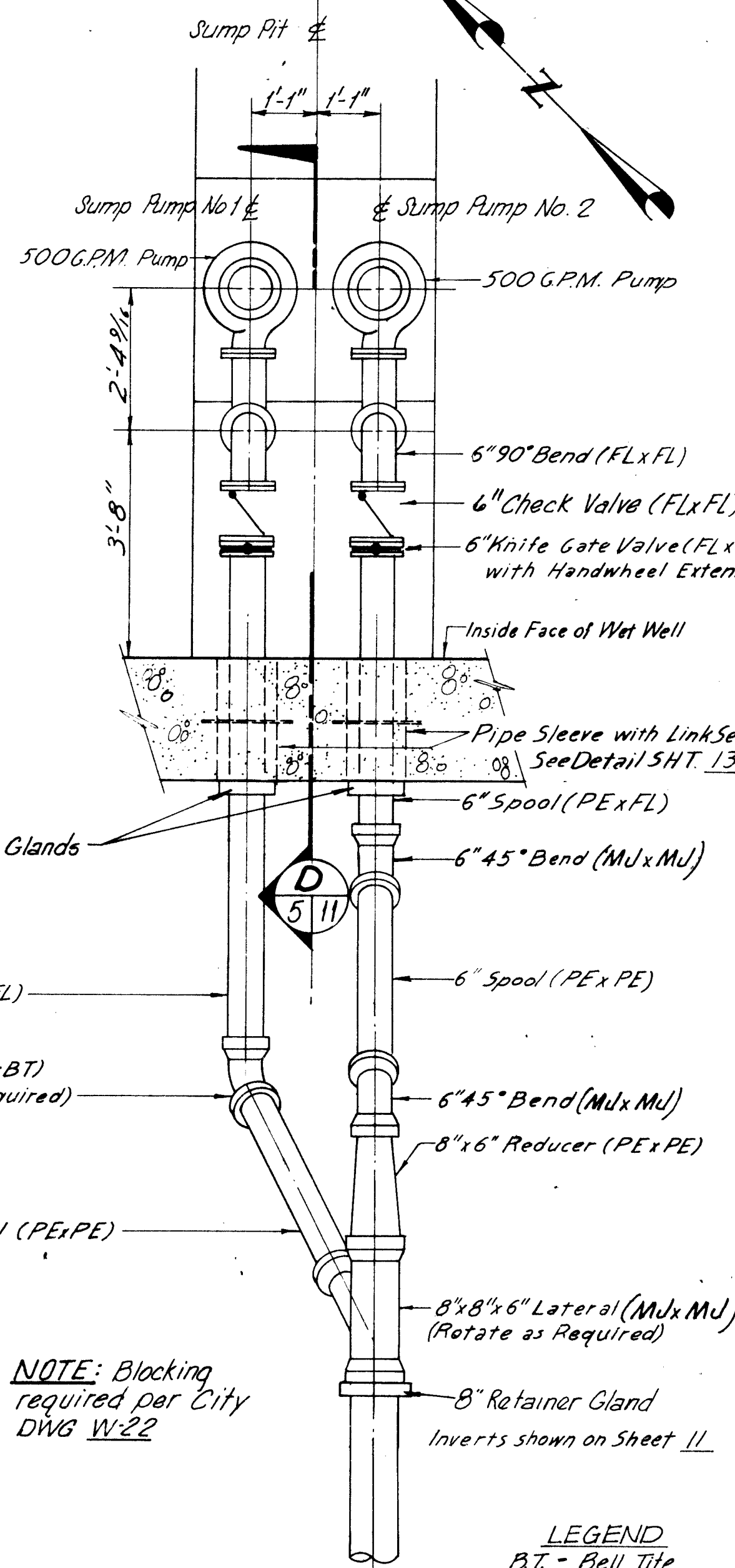
1572

BFANM Systems Division			
ALBUQUERQUE, NM			
2 MAY 83	NO SCALE		
PROGRAMMABLE CONTROLLER			
OUTPUT MODULES			
CITY OF ALBUQUERQUE, NM			83004-420 Sheet 2 of 2

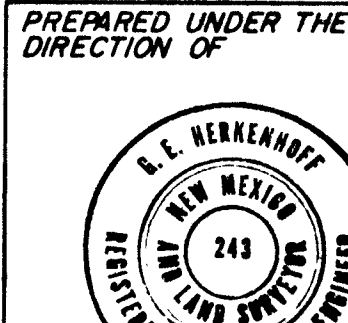
REVISIONS



FLOOR AND PIPING PLAN
Scale: 1/4" = 1'-0"



SUMP PUMP PIPING LAYOUT
Scale: 1/2" = 1'-0"



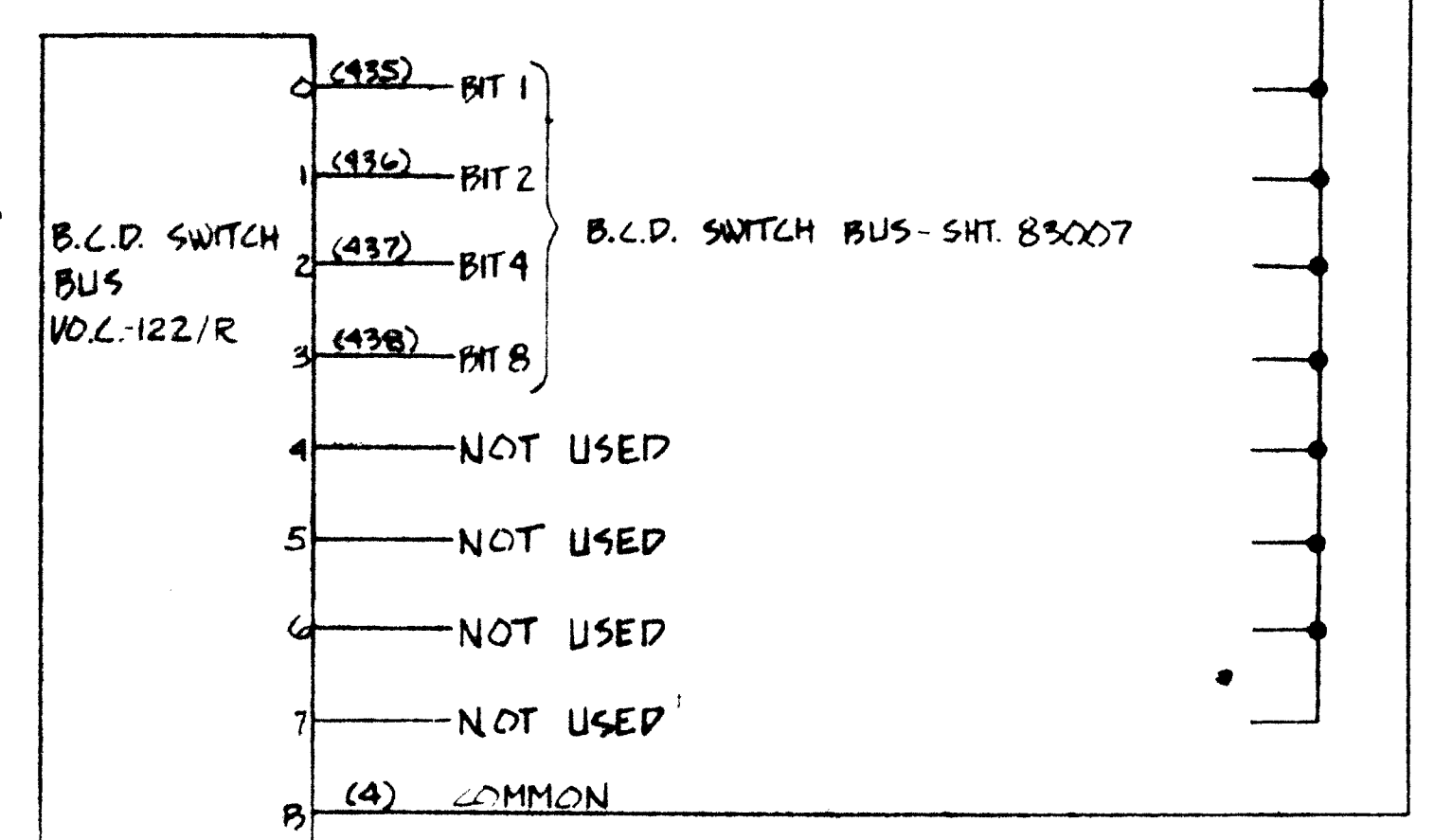
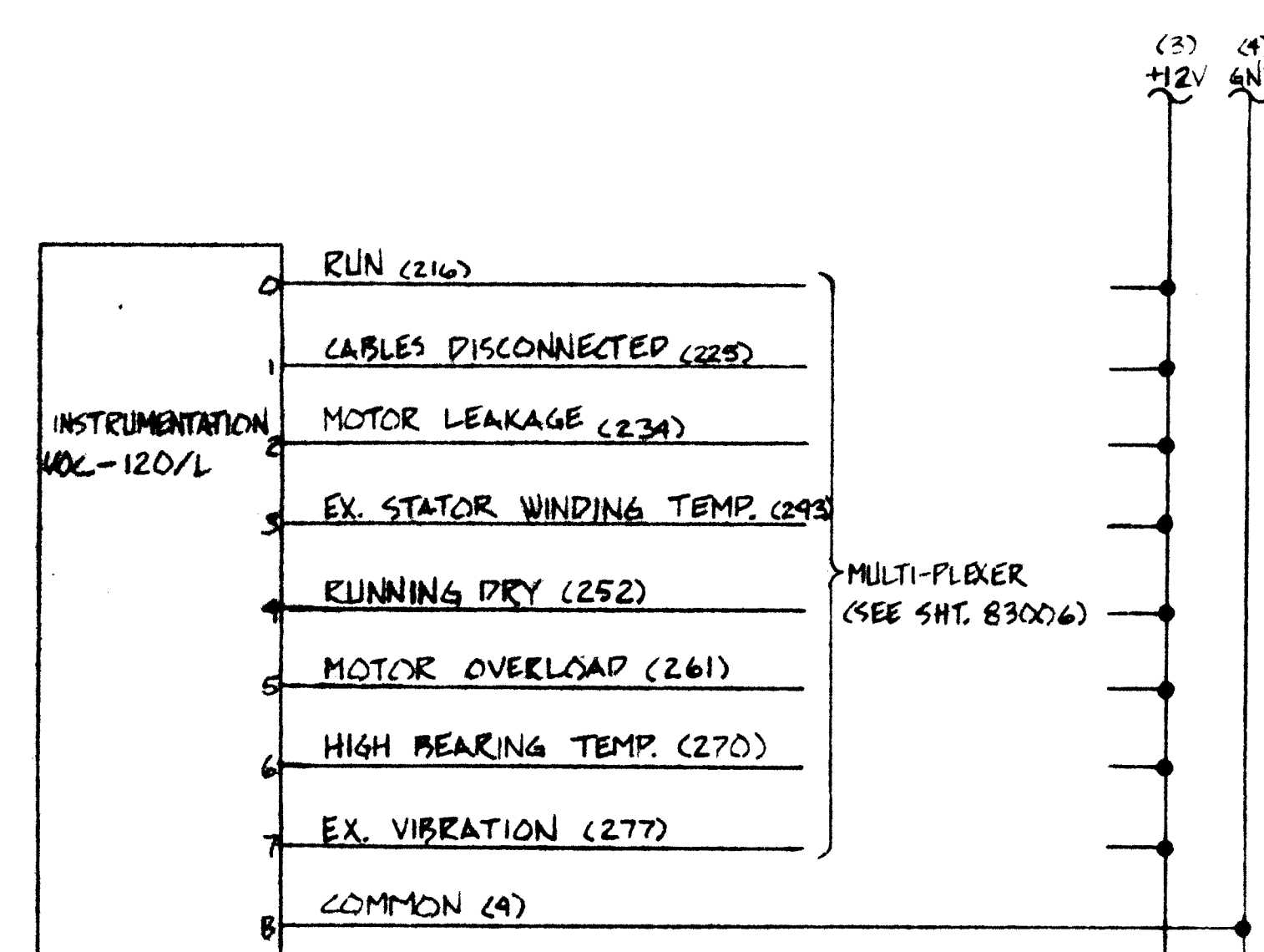
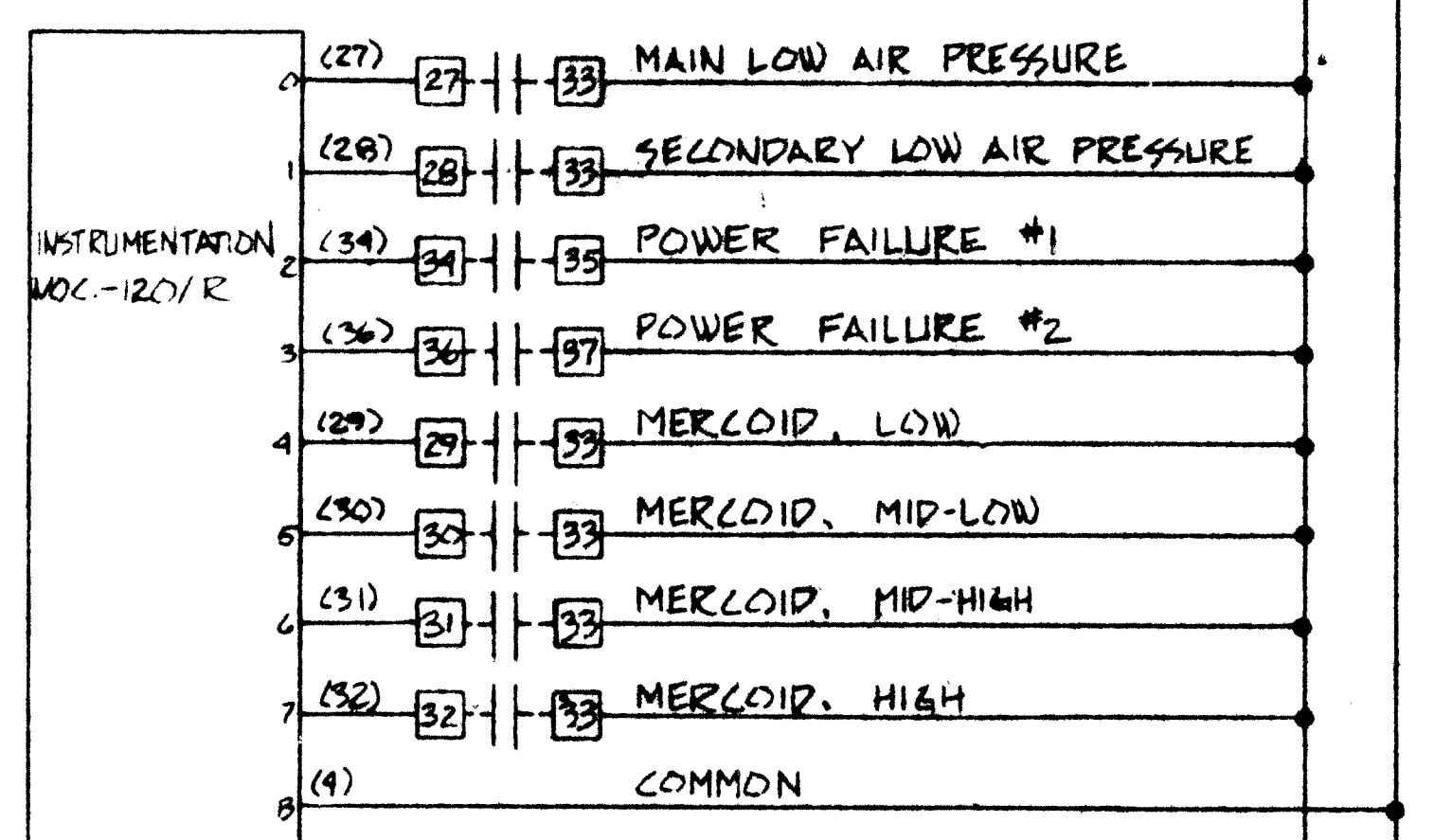
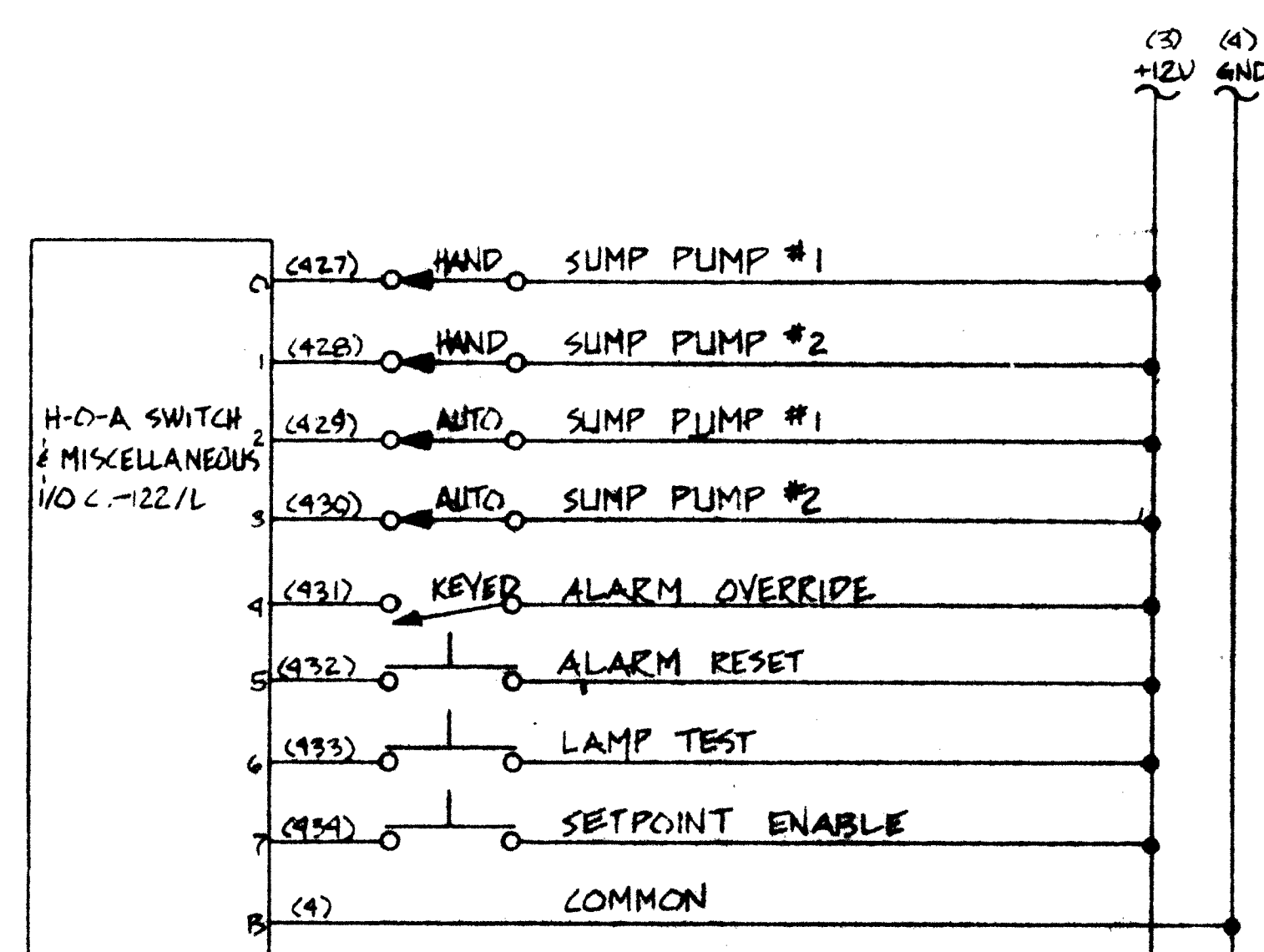
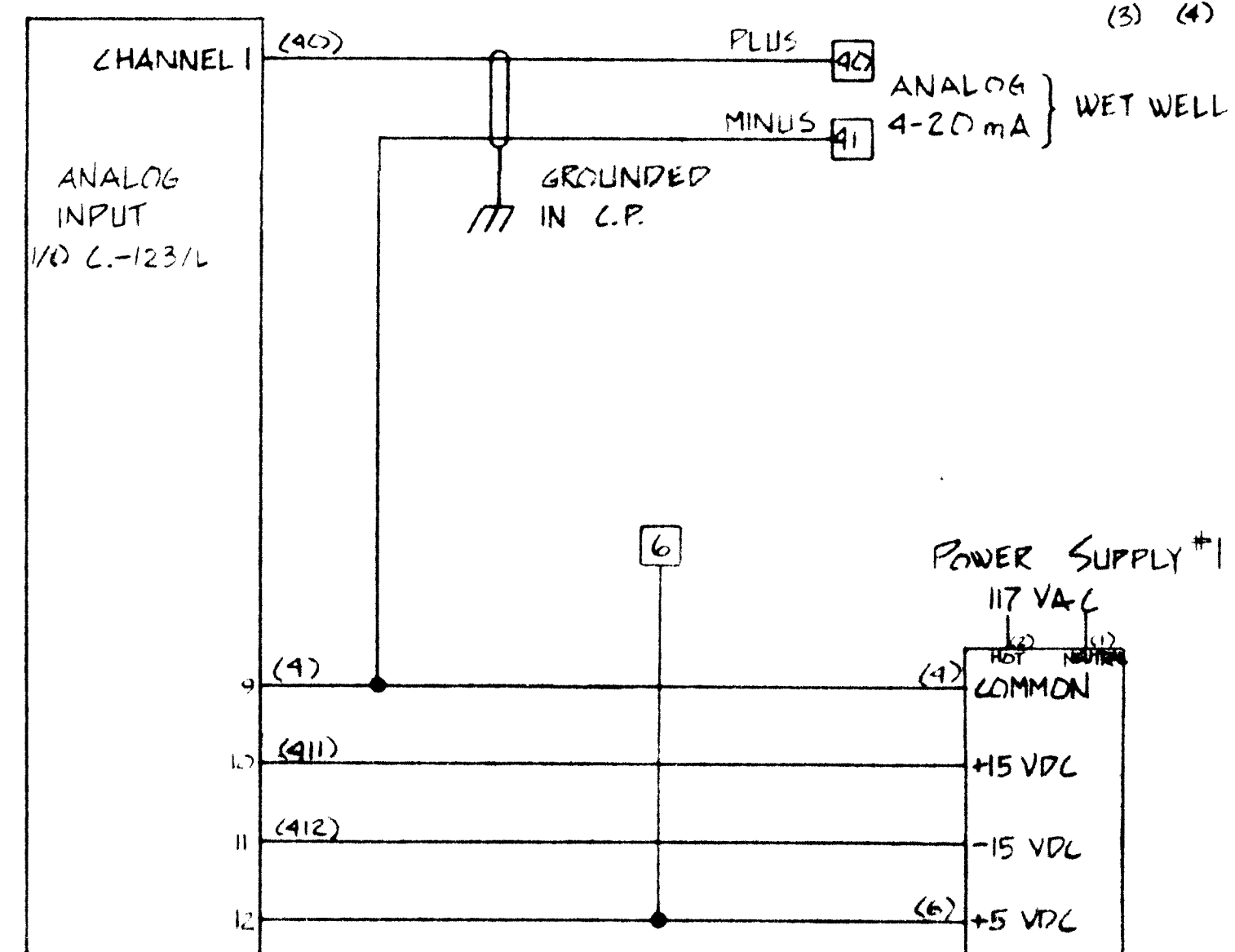
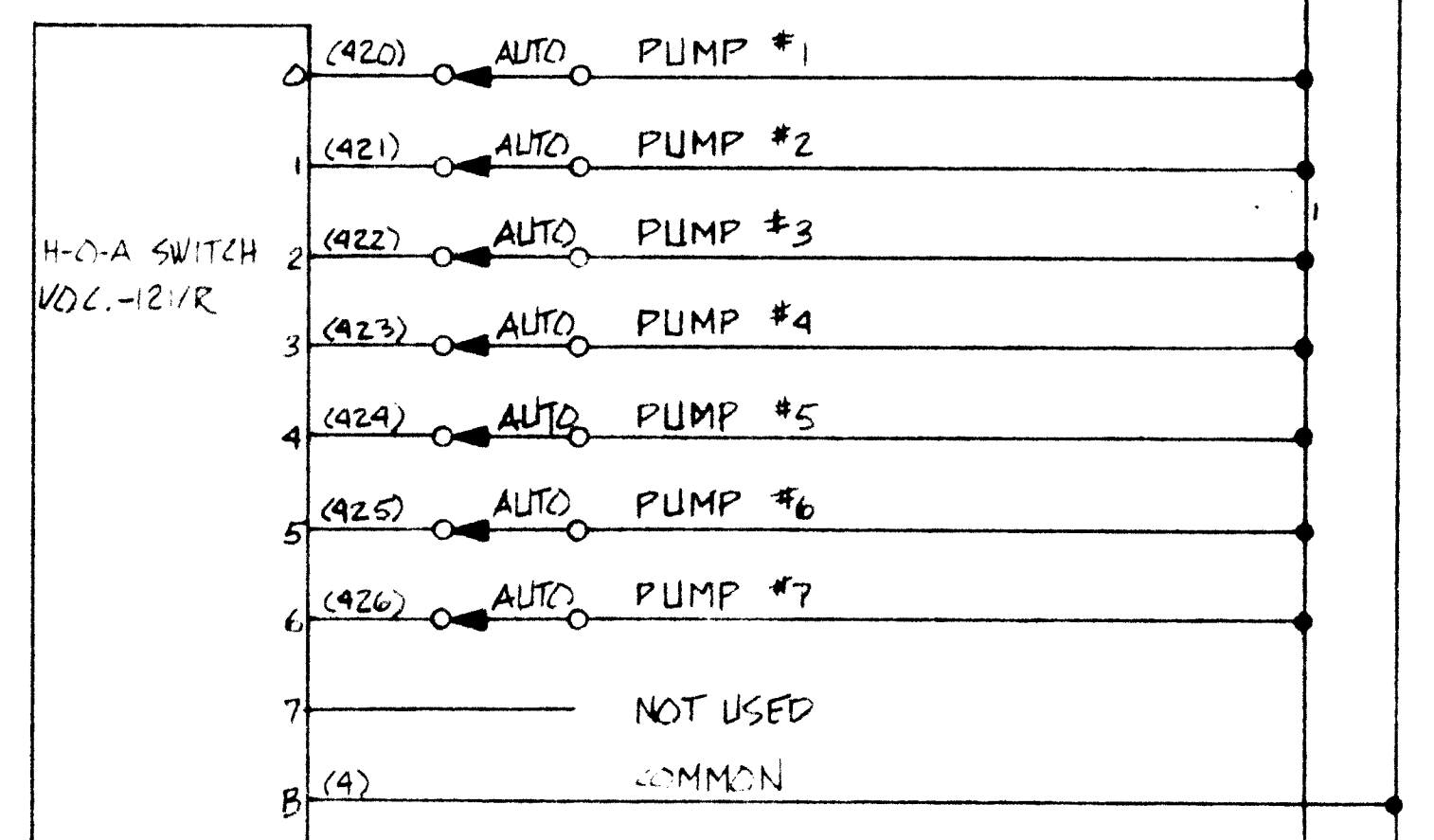
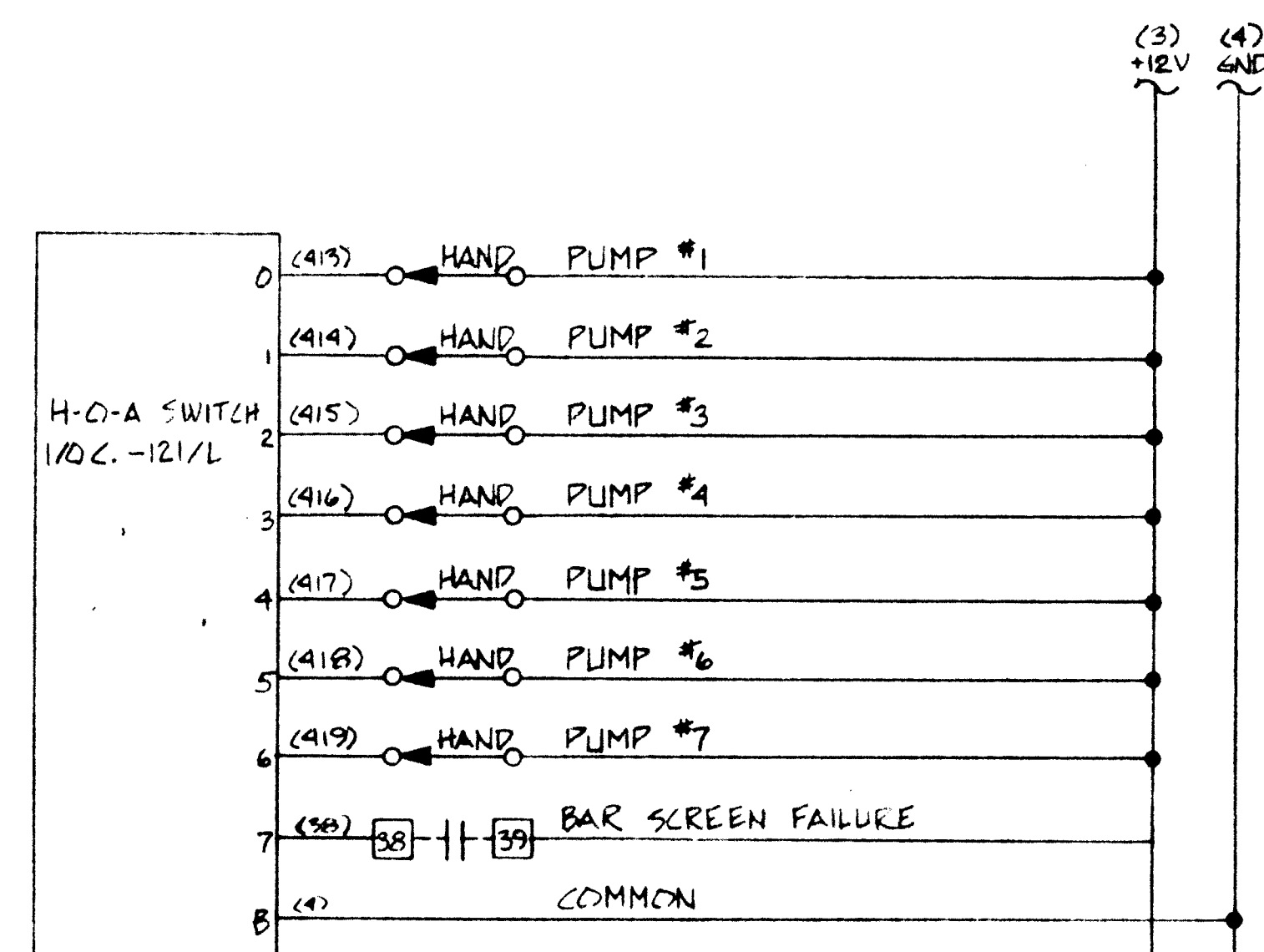
RECORD DRAWING
AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

APPROVED FOR CONSTRUCTION

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM PUMP STATION FLOOR AND PIPING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1572			SHEET 5 OF 37		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS	
CONTRACTOR	DATE	CONTRACTOR	DATE	MAP NO.	EST. NO.	W.O. NO.	BY	NO.	DATE
WORK BY	DATE	FIELD	DATE						
ACCEPTANCE BY	DATE	CONTRACTOR	DATE						
DESIGNED BY	DATE	DESIGNED BY	DATE						
DRAWN BY	DATE	DRAWN BY	DATE						
CHECKED BY	DATE	CHECKED BY	DATE						
RECORDED BY	DATE	RECORDED BY	DATE						
NO.		NO.							



NOTES
1. TB 1 - 1 thru 79
TB 2 - 80 thru 147
TB 3 - 148 thru 215
TB 4 - 216 thru 283
TB 5 - DC POWER CONNECTIONS

26 15720586

1572

BFANM Systems Division

ALBUQUERQUE, NM

4 MAY 83

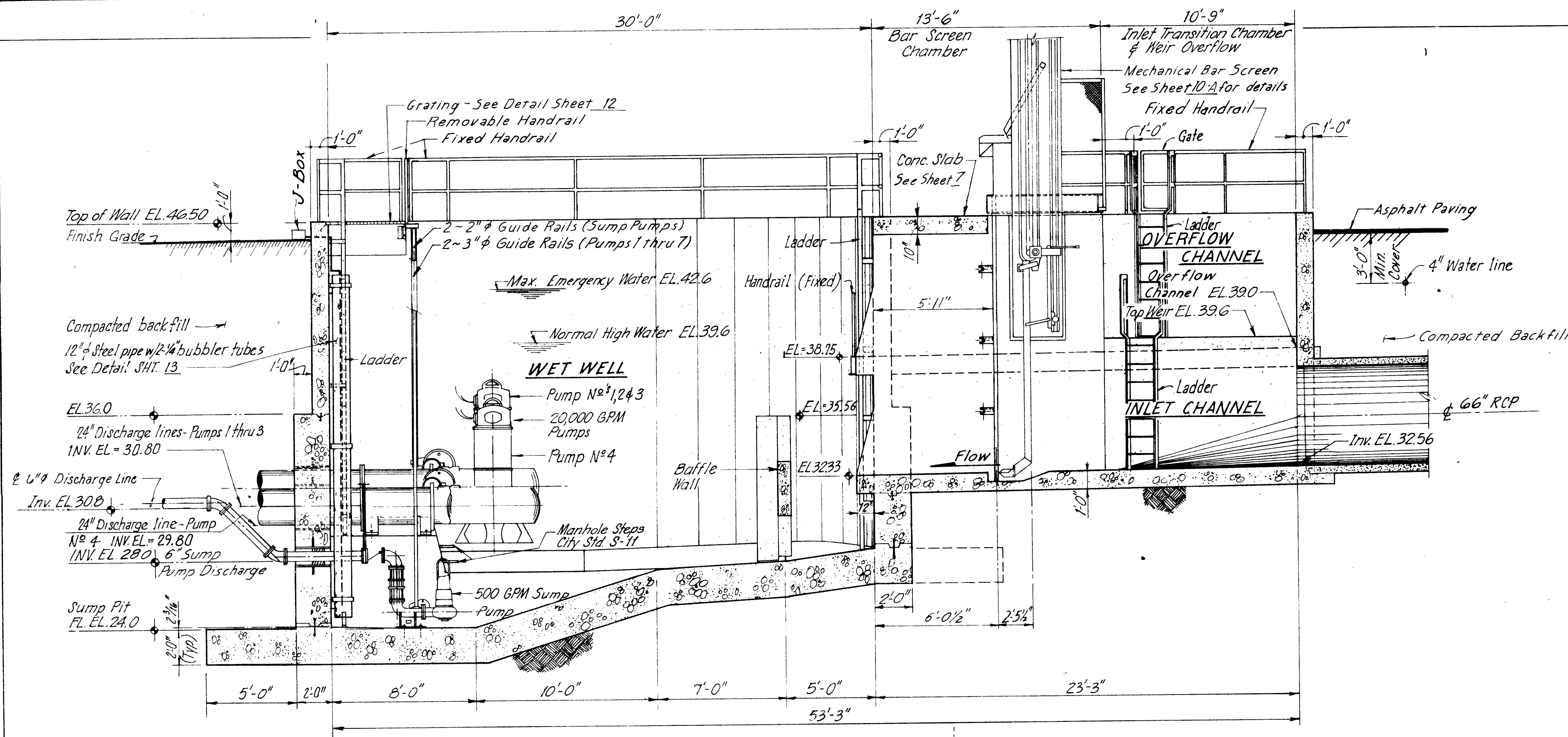
NO SCALE

PROGRAMMABLE CONTROLLER
INPUT MODULES

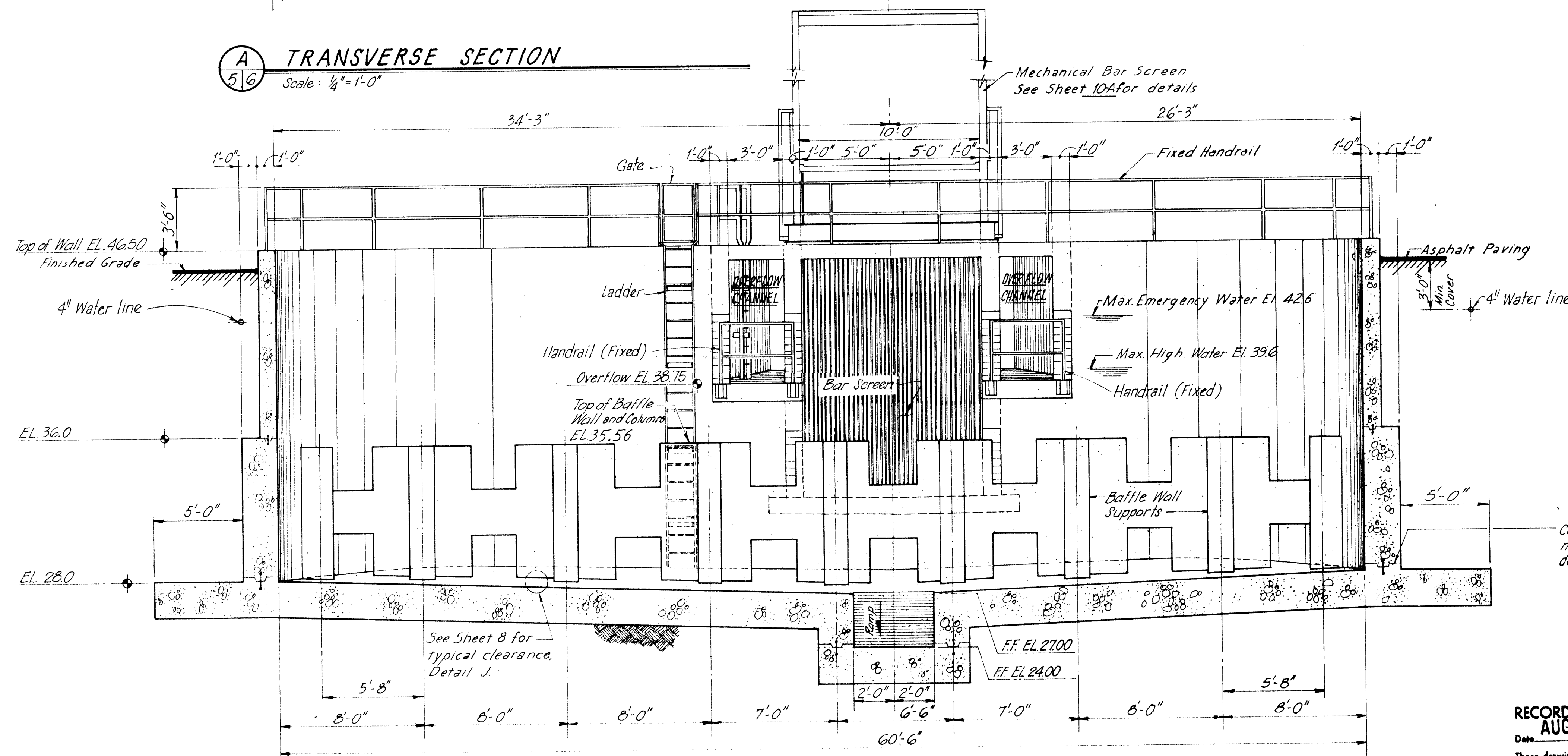
CITY OF ALBUQUERQUE, NM

83005-420

REVISIONS



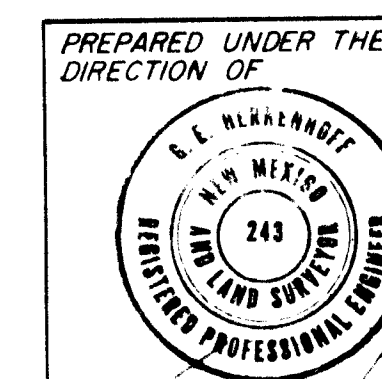
A TRANSVERSE SECTION
Scale: 1/4" = 1'-0"



B LONGITUDINAL SECTION
Scale: 1/4" = 1'-0"

RECORD DRAWING
AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



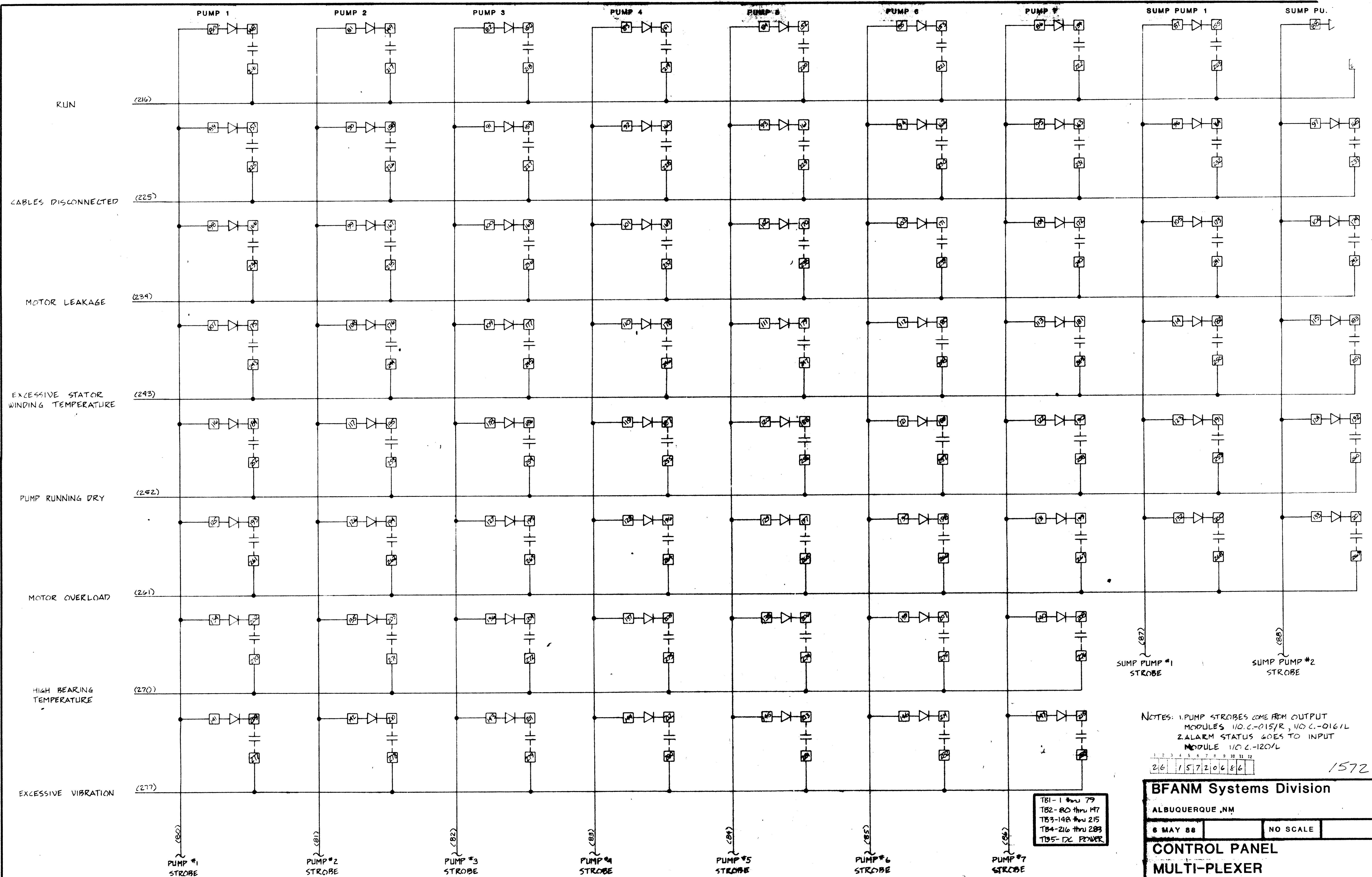
APPROVED FOR
CONSTRUCTION

PROJECT NO. 1823.13

CITY ENGINEER DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM PUMP STATION LONGITUDINAL and TRANSVERSE SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1572			SHEET 6 OF 37		

REFERENCES		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
MAP NO.	EST. NO.	NO.	BY	DATE	Refer to Site Layout Plan Sheet	CONTRACTOR	DATE
J-13, K-13							
REVISIONS		MICRO-FILM INFORMATION		DATE		DATE	
NO.	DATE	REMARKS	BY	DATE	RECORDED BY	DATE	NO.
		DESIGN					
		DESIGNED BY JE		DATE Sept 1982			
		DRAWN BY MG		DATE Sept 1982			
		CHECKED BY CD		DATE Oct 1982			

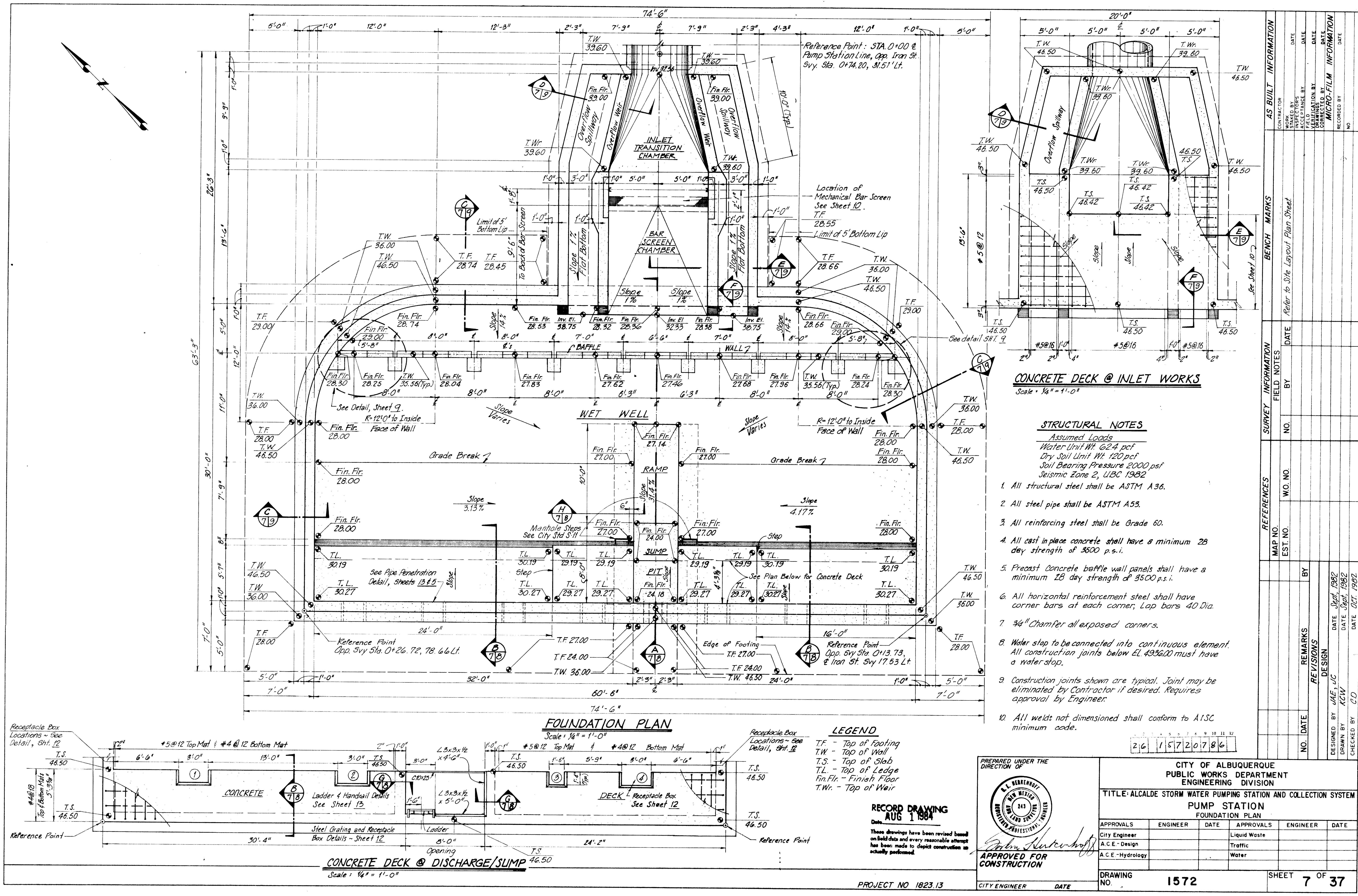


NOTES: 1. PUMP STROBES COME FROM OUTPUT MODULES 110 C-015/R, 110 C-016/L
2. ALARM STATUS GOES TO INPUT MODULE 110 C-120/L

1	2	3	4	5	6	7	8	9	10	11	12
216	157	210	6	8	6						

1572

BFANM Systems Division	
ALBUQUERQUE, NM	
8 MAY 88	NO SCALE
CONTROL PANEL	
MULTI-PLEXER	
CITY OF ALBUQUERQUE, NM	83006-420



CONCRETE DECK @ INLET WORKS
Scale = 1/4" = 1'-0"

STRUCTURAL NOTES

Assumed Loads
Water Unit Wt. 62.4 pcf
Dry Soil Unit Wt. 120 pcf
Soil Bearing Pressure 2000 psf
Seismic Zone 2, UBC 1982

1. All structural steel shall be ASTM A36.
2. All steel pipe shall be ASTM A53.
3. All reinforcing steel shall be Grade 60.
4. All cast in place concrete shall have a minimum 28 day strength of 3500 p.s.i.
5. Precast concrete baffle wall panels shall have a minimum 28 day strength of 3500 p.s.i.
6. All horizontal reinforcement steel shall have corner bars at each corner; Lap bars 40 Dia.
7. 3/4" Chamfer all exposed corners.
8. Water stop to be connected into continuous element. All construction joints below EL. 4936.00 must have a water stop.
9. Construction joints shown are typical. Joint may be eliminated by Contractor if desired. Requires approval by Engineer.
10. All welds not dimensioned shall conform to AISC minimum code.

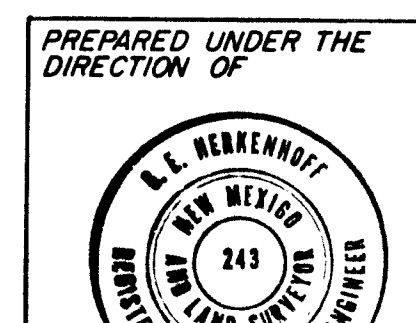
FOUNDATION PLAN
Scale: 1/4" = 1'-0"

LEGEND

T.F. - Top of Footing
T.W. - Top of Wall
T.S. - Top of Slab
T.L. - Top of Ledge
Fin. Flr. - Finish Floor
T.Wr. - Top of Weir

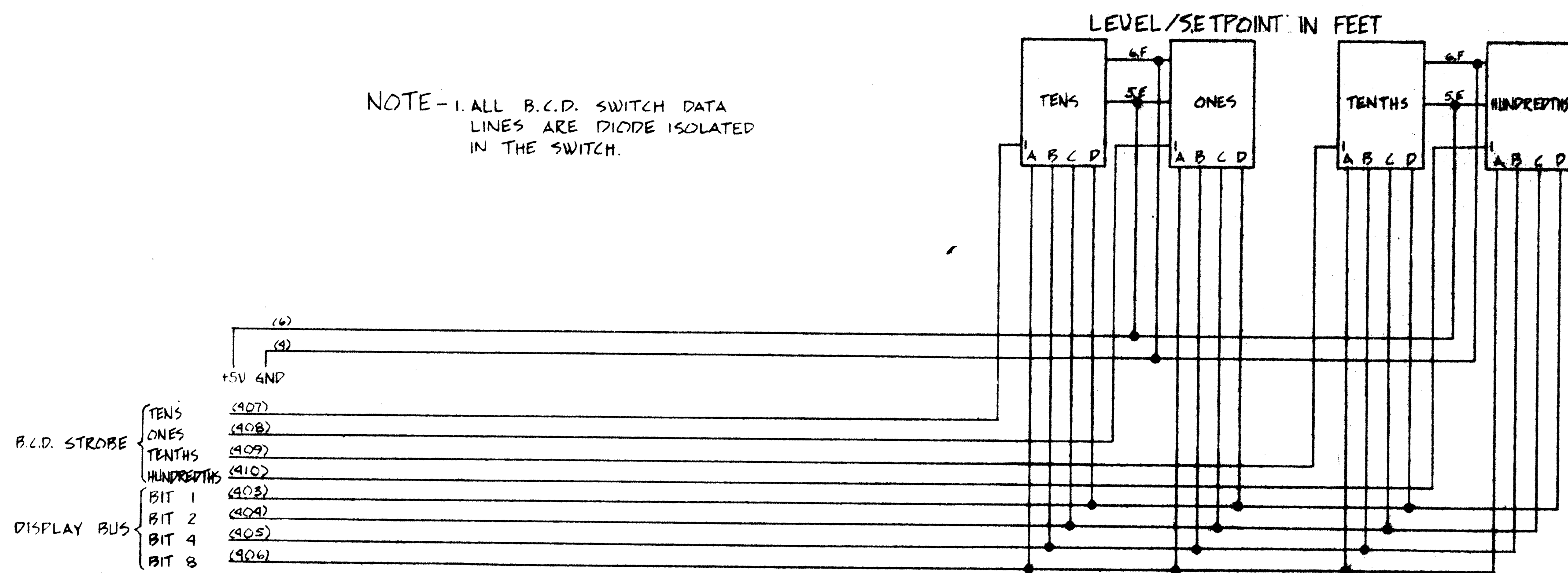
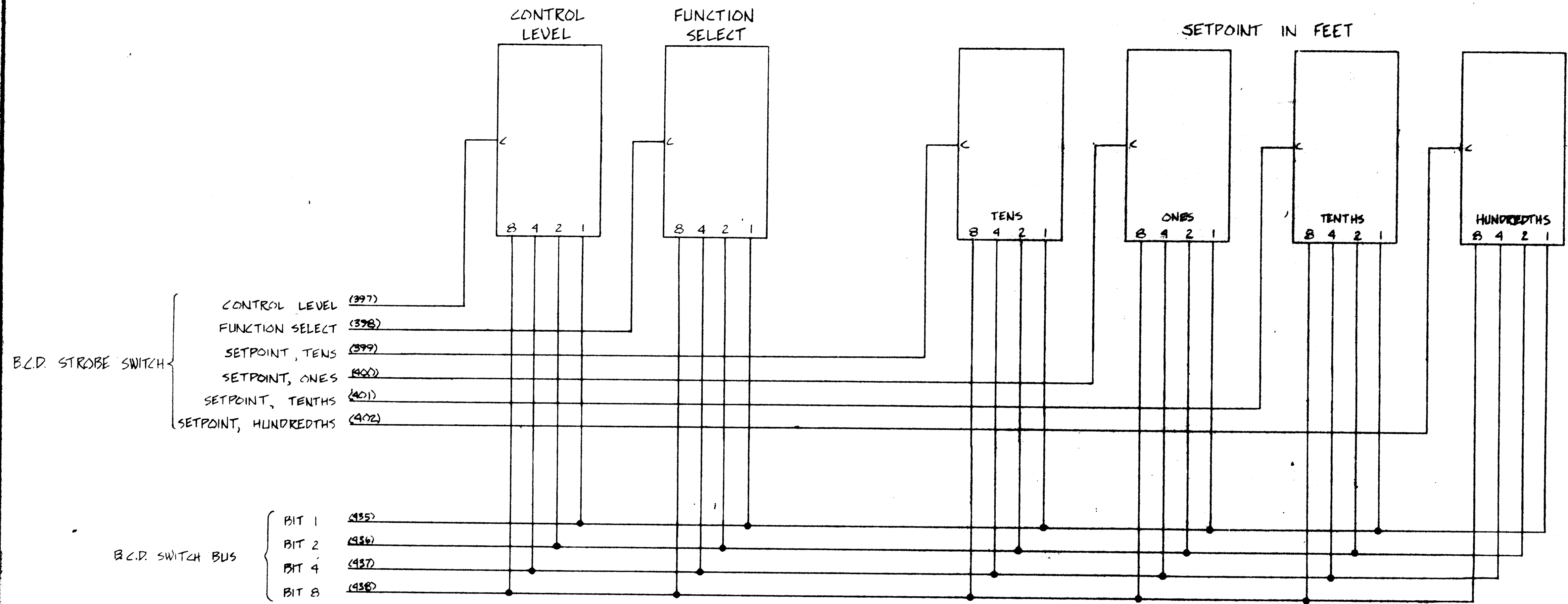
RECORD DRAWING
AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM PUMP STATION FOUNDATION PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1572			SHEET 7 OF 37		



26 15720786

1572

BFANM Systems Division

ALBUQUERQUE, NEW MEXICO

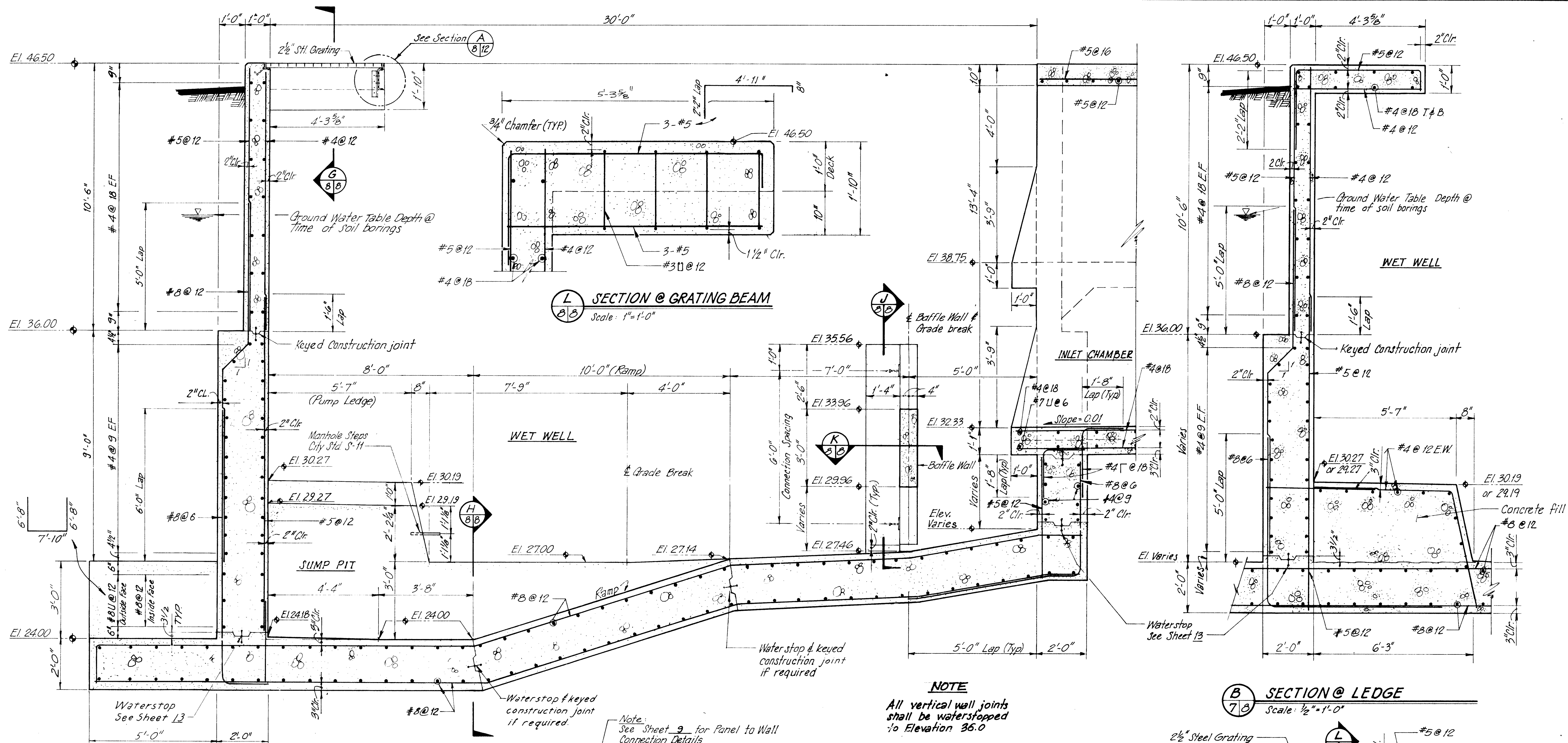
10 MAY 88

NO SCALE

CONTROL PANEL
DISPLAY BUS/SWITCH BUS
with STROBE OUTPUTS

CITY OF ALBUQUERQUE, NM

88007-420



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				REFERENCES				REVISIONS			
CONTRACTOR	DATE	INSPECTOR	DATE	Refer to site layout plan sheet	NO.	BY	DATE	MAP NO. J-13 f K-13	EST. NO.	W.O. NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
WORK BY	DATE	ACCEPTANCE BY	DATE																
FIELD INVESTIGATION BY	DATE	DESIGNED BY	DATE																
DRAWINGS	DATE	DRAWN BY	DATE																
CONTRACT NO.	DATE	CHECKED BY	DATE																
RECORDED BY	DATE																		
NO.																			

PREPARED UNDER THE DIRECTION OF

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM

PUMP STATION
REINFORCEMENT SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 1572

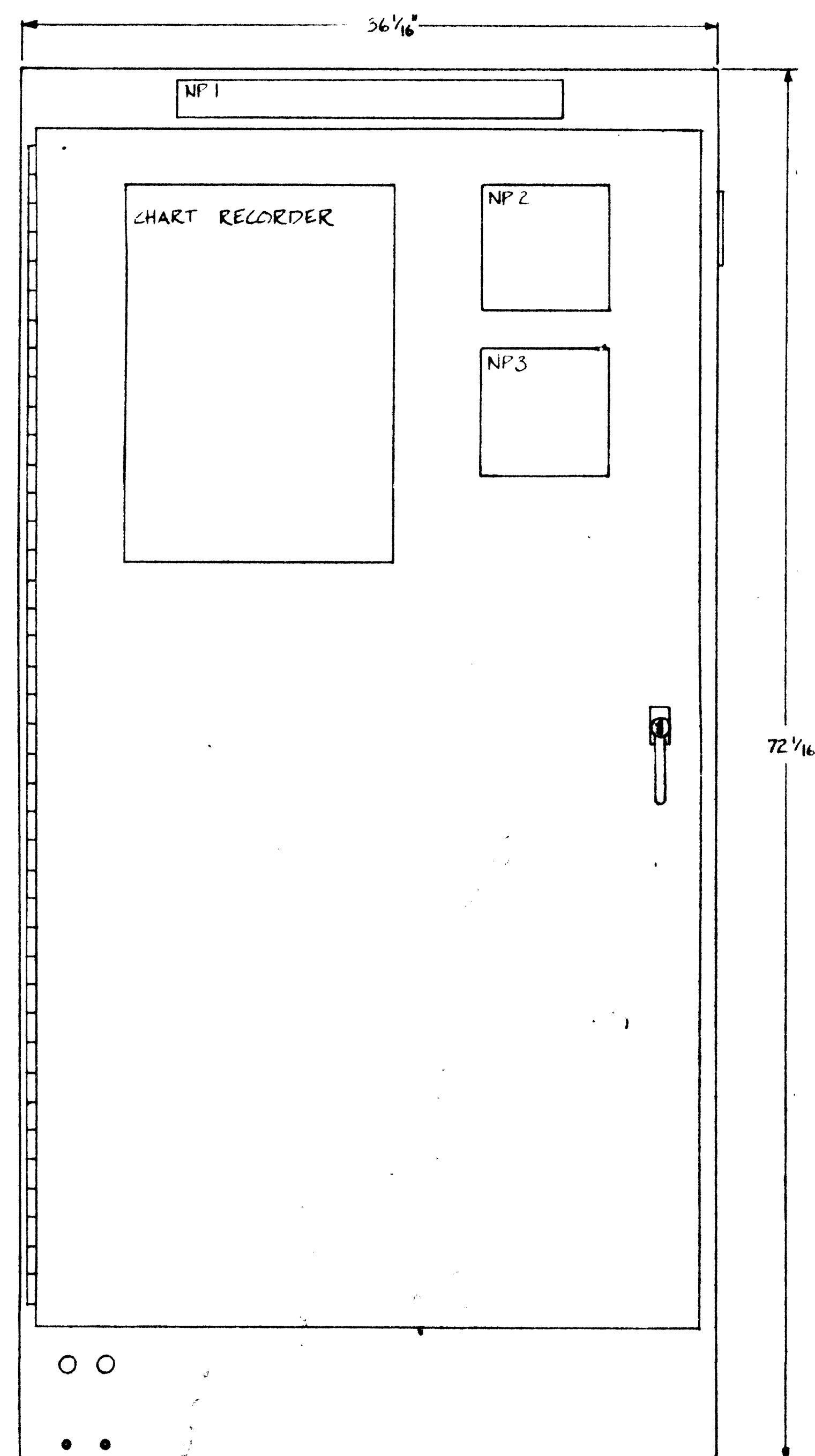
SHEET 8 OF 37

DESIGNED BY JAE, LC DATE Sept. 1982
DRAWN BY KCM DATE Sept. 1982
CHECKED BY C.D. DATE Oct. 1982

RECORD DRAWING
AUG 1 1984

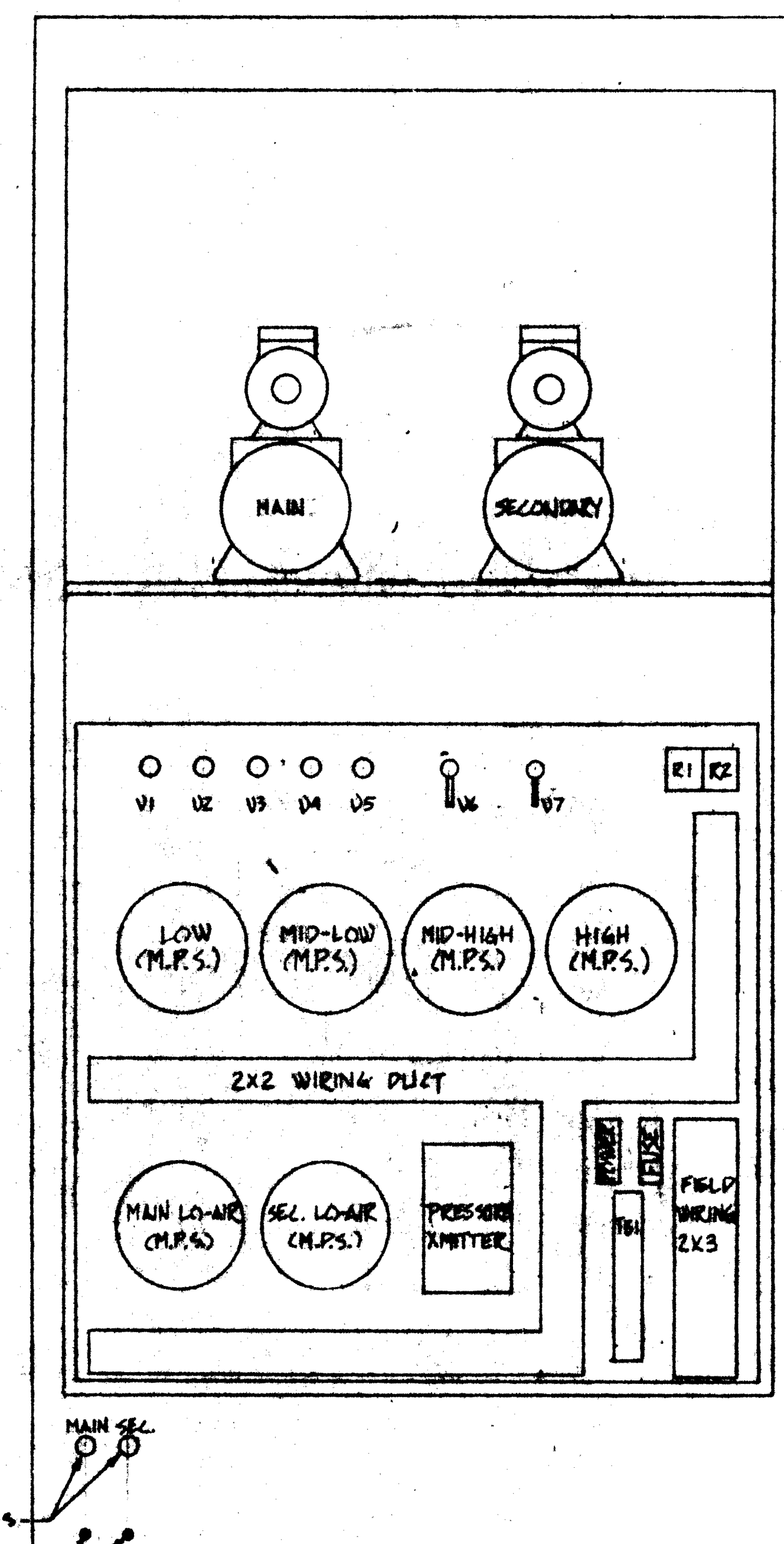
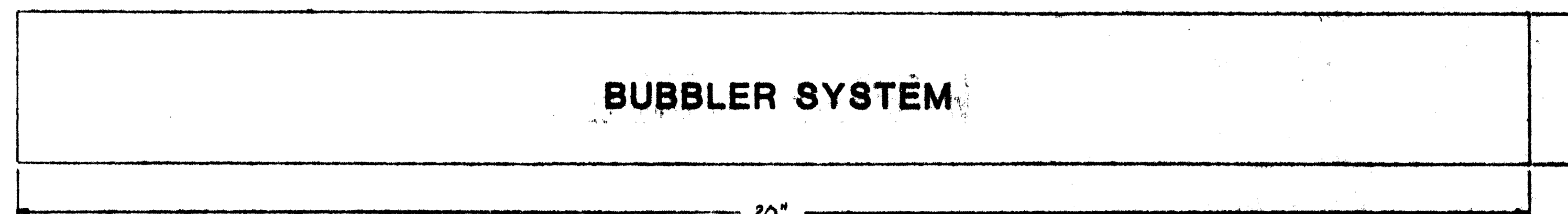
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

PROJECT NO. 1823.13



FRONT SIDE

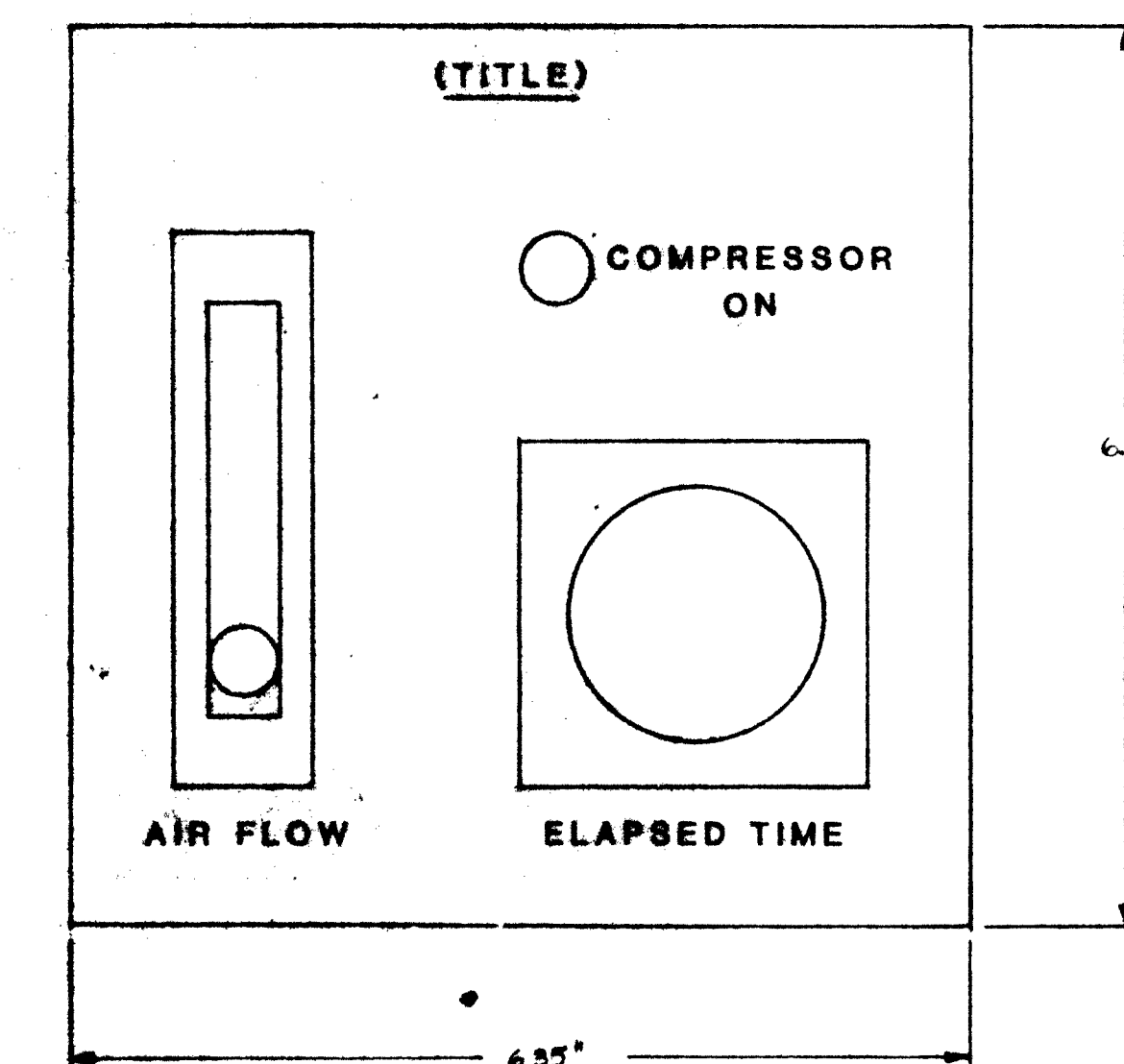
NP 1



FRONT (w/o Door)

NP 2- MAIN BUBBLER LINE
NP 3- SECONDARY BUBBLER LINE

NP 2, NP 3



- NOTES-1. ENCLOSURE-NEMA 12 STANDARD DUAL ACCESS
24 1/16 IN. DEPTH.
2. SURGE PROTECTION- TERMINAL MOUNTED MOV.
3. SECOND AIR COMPRESSOR IS LOCATED DIRECTLY
BEHIND THE FIRST ONE.
4. M.P.S.-MERCOID PRESSURE SWITCH.

1 2 3 4 5 6 7 8 9 10 11 12
26 15720886

1572

BFANM Systems Division

ALBUQUERQUE, NM

30 MAY 88

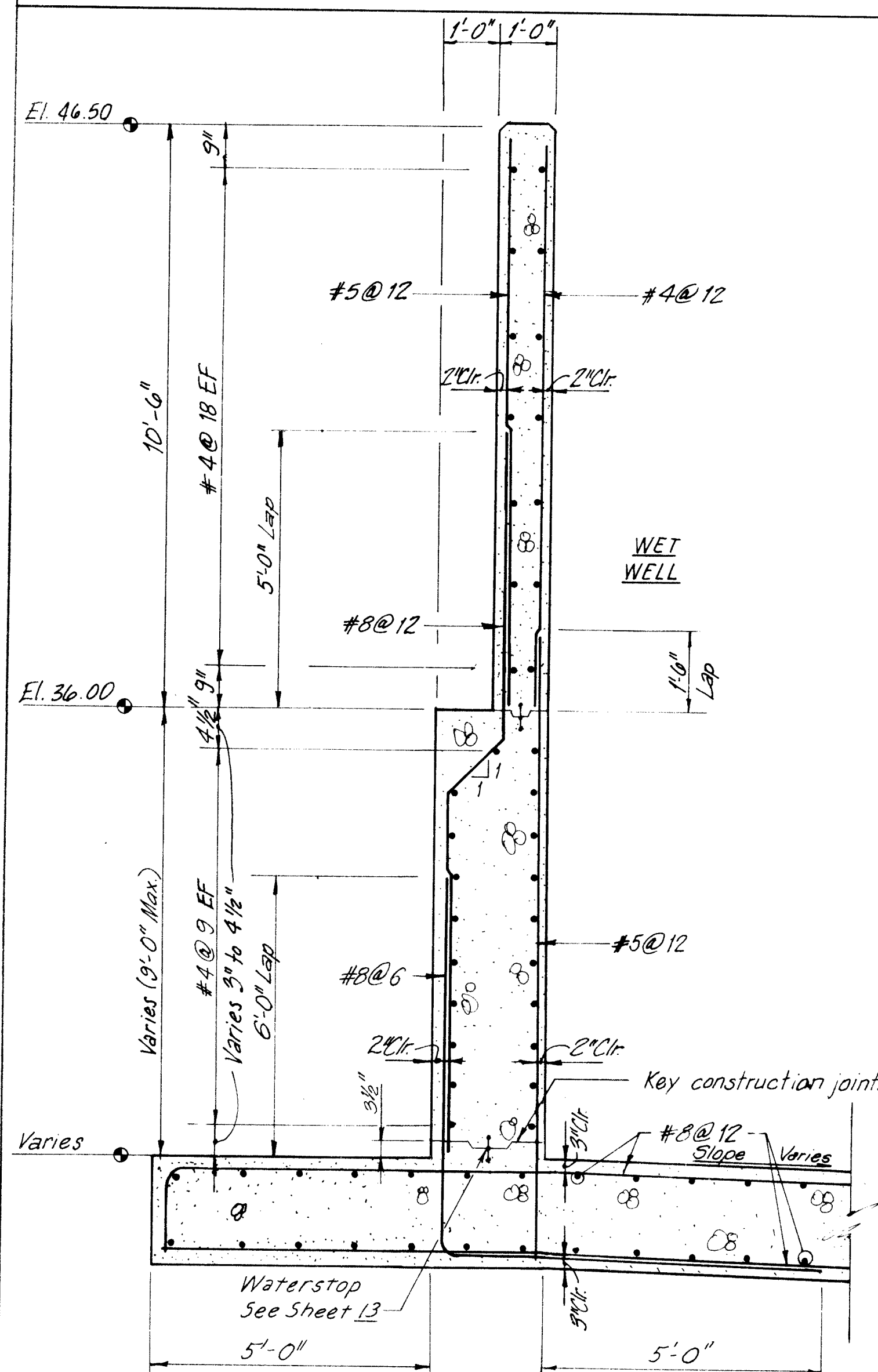
BUBBLER PANEL LAYOUT

NAMEPLATE DETAIL

REVISIONS

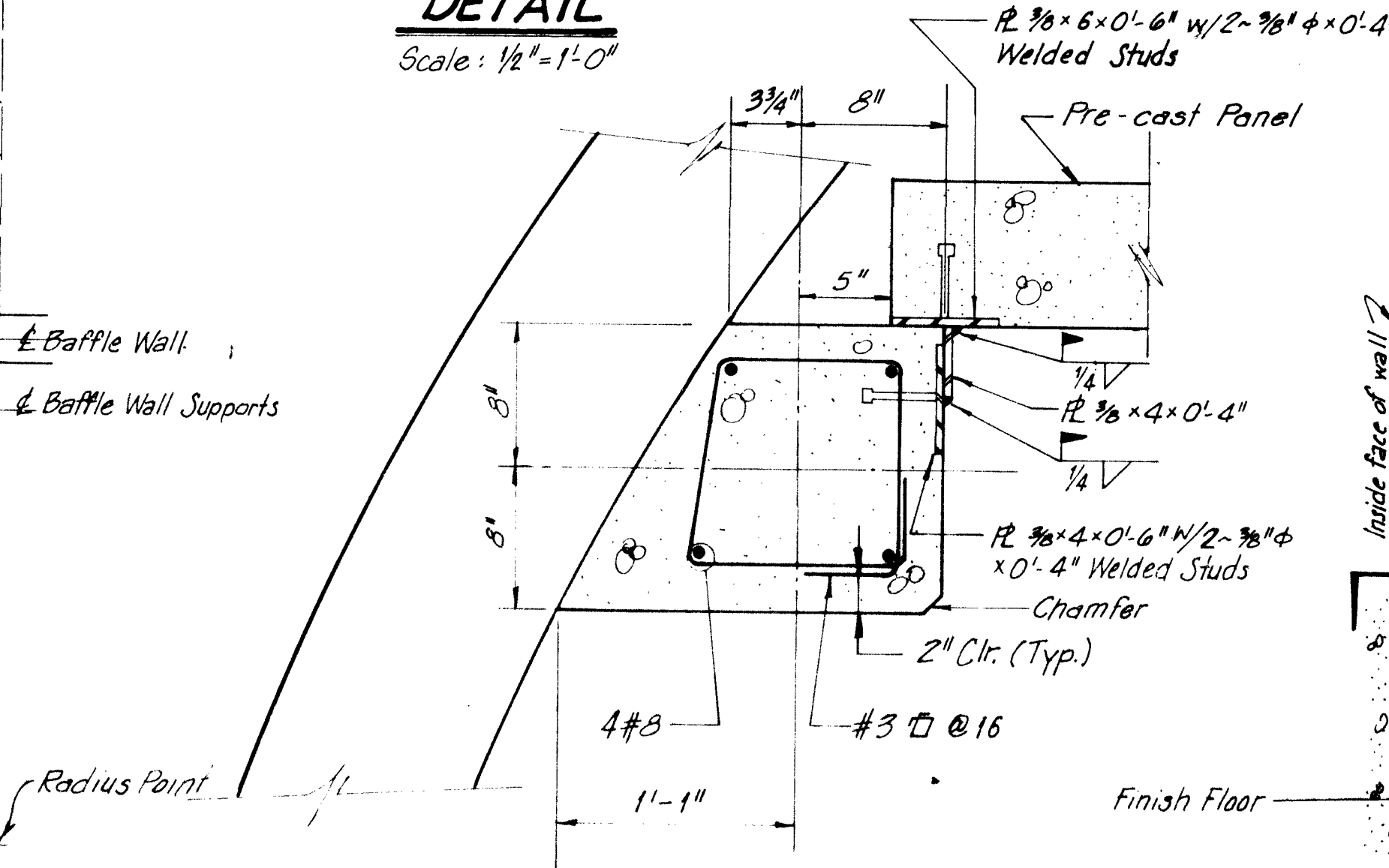
CITY OF ALBUQUERQUE, NM

83008-420



C SECTION
Scale: 1/2" = 1'-0"

WET WELL FLOOR CONSTRUCTION JOINT DETAIL
Scale: 1/2" = 1'-0"

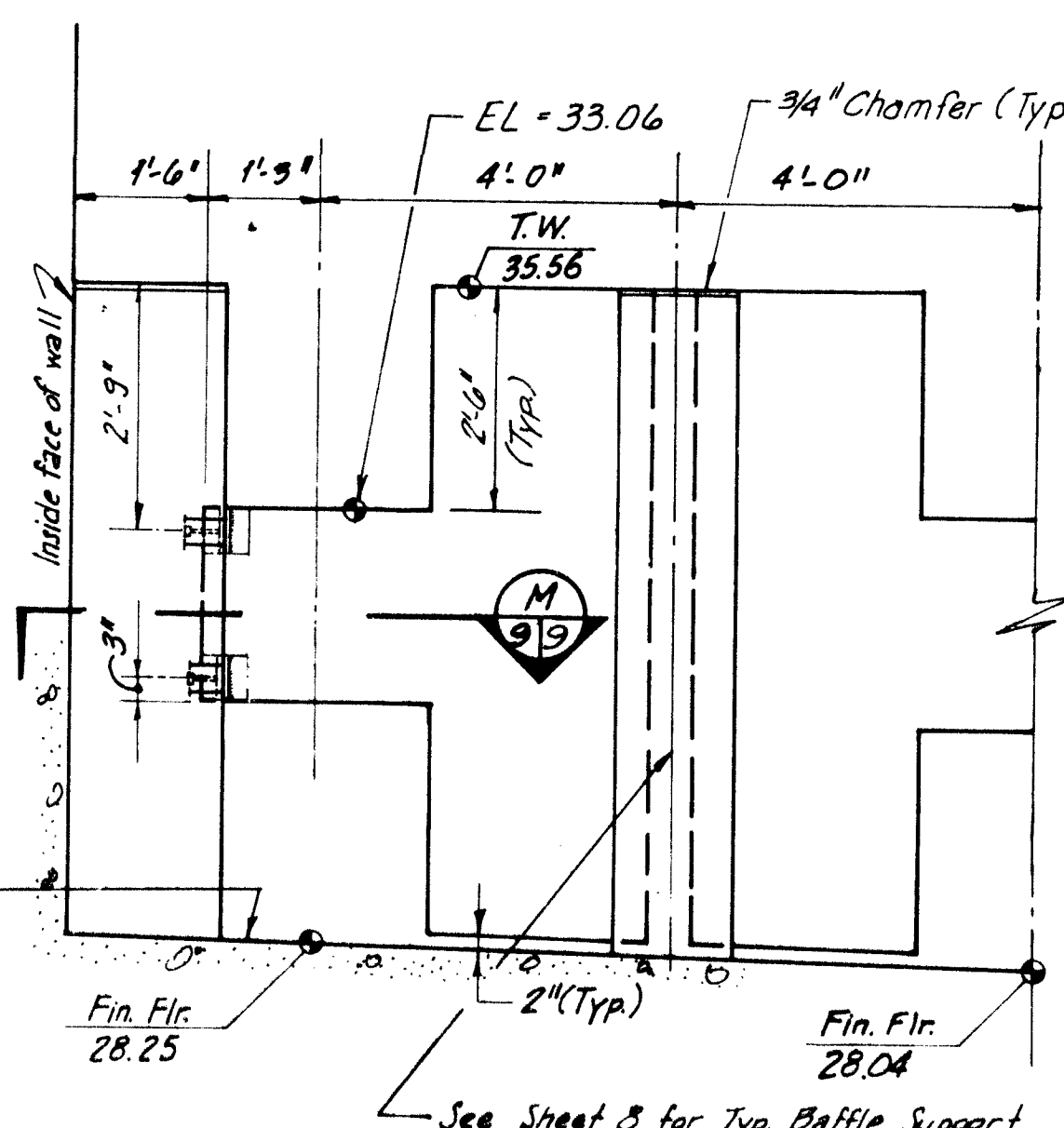


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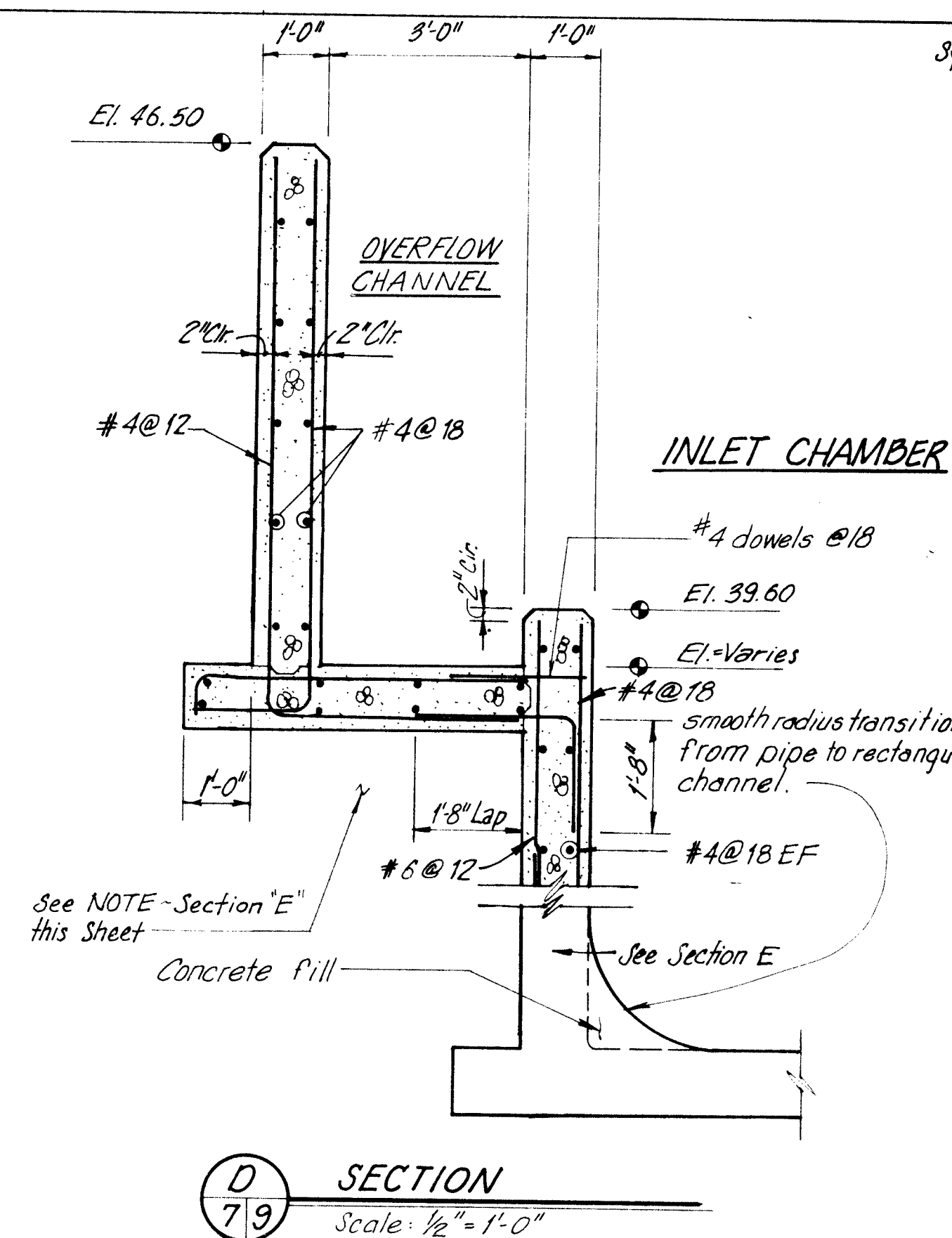
RECORD DRAWING
Date: AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

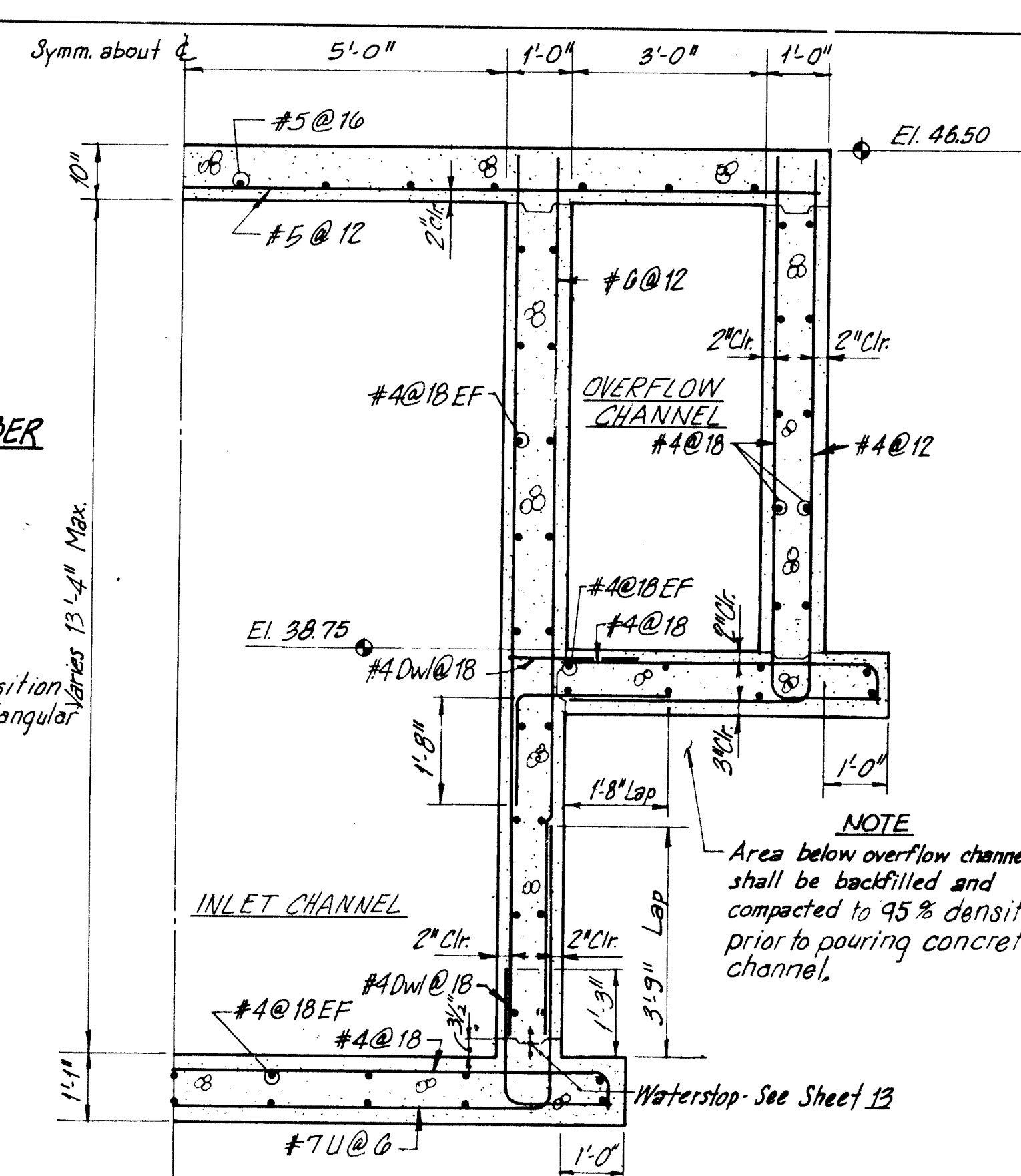
ELEVATION-PANEL CONNECTION @ WALL
Scale: 1/2" = 1'-0"



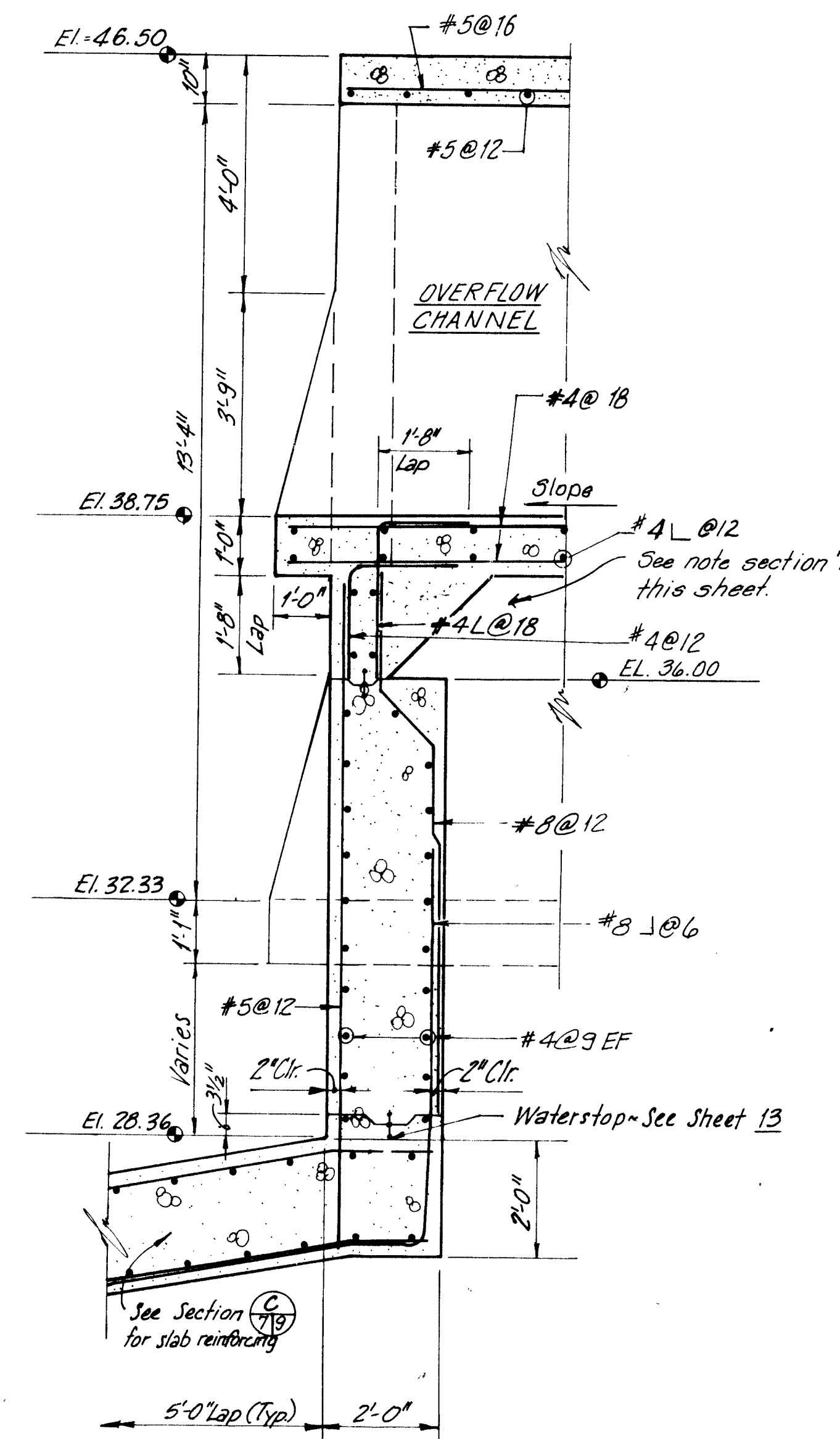
ELEVATION-PANEL CONNECTION @ WALL
Scale: 1/2" = 1'-0"



D SECTION
Scale: 1/2" = 1'-0"

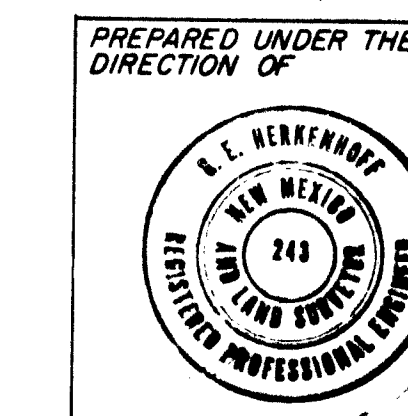
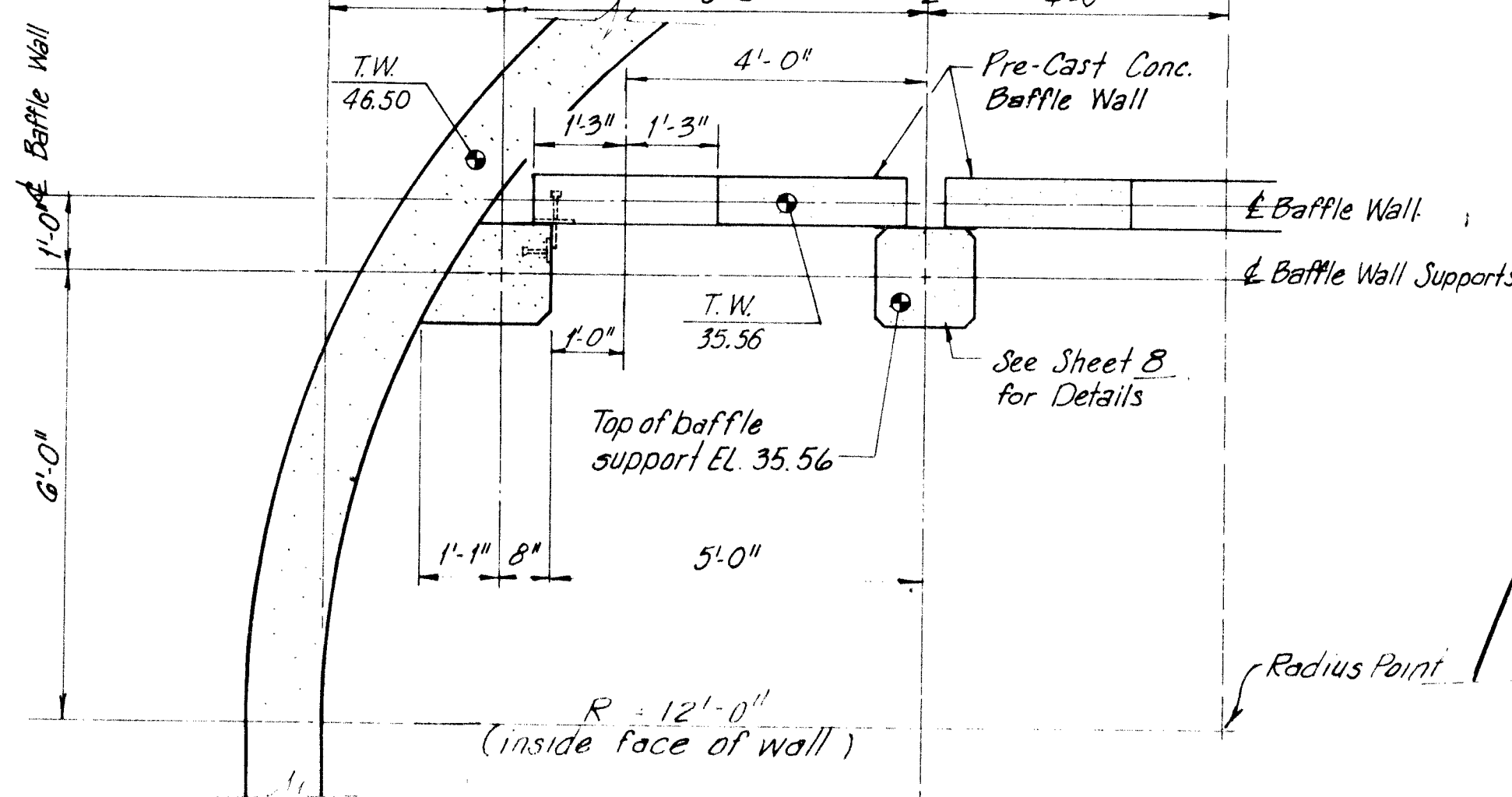


E SECTION
Scale: 1/2" = 1'-0"



F SECTION
Scale: 1/2" = 1'-0"

PLAN ~ PANEL CONNECTION @ WALL
Scale: 1/2" = 1'-0"

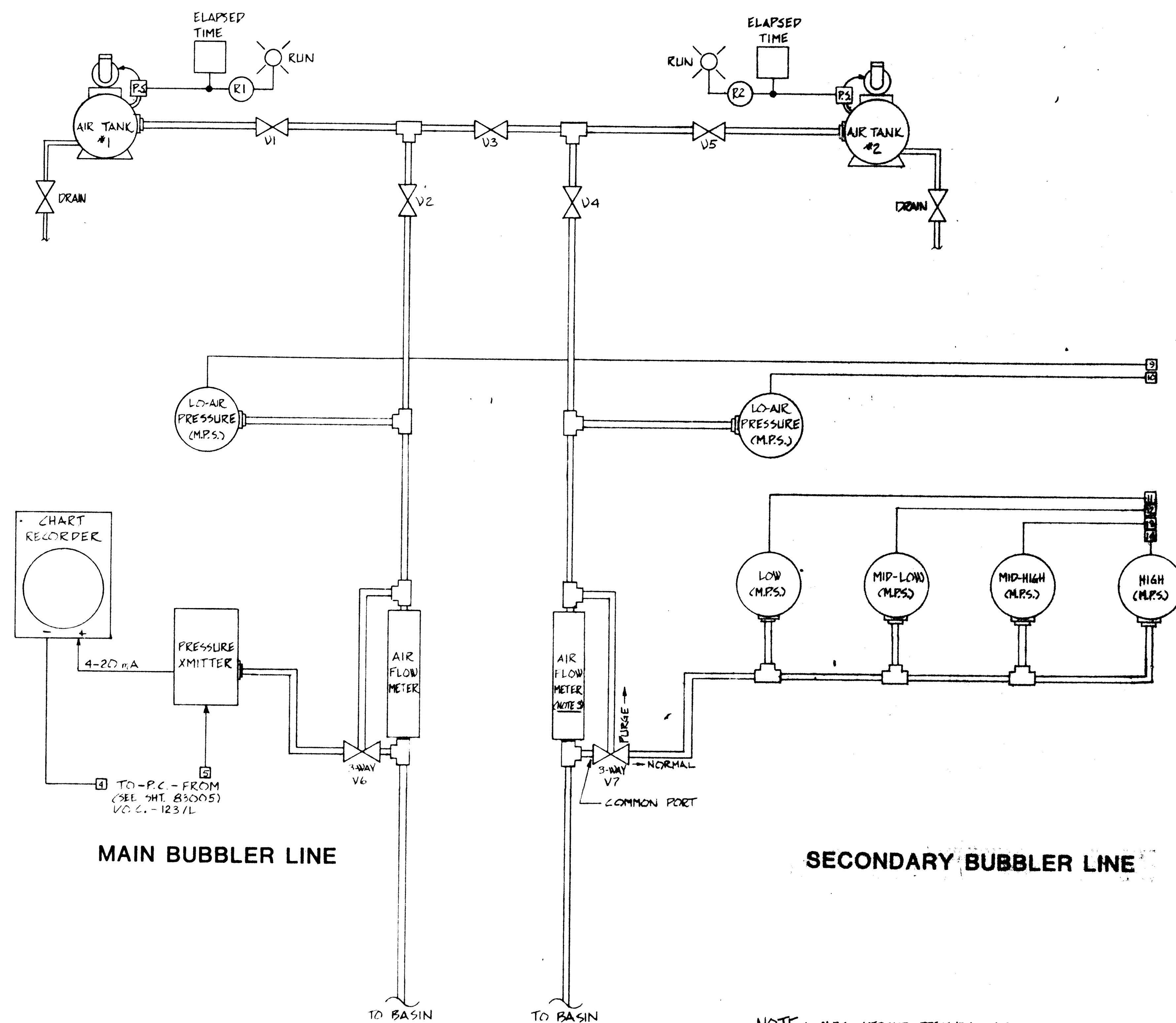


APPROVED FOR CONSTRUCTION

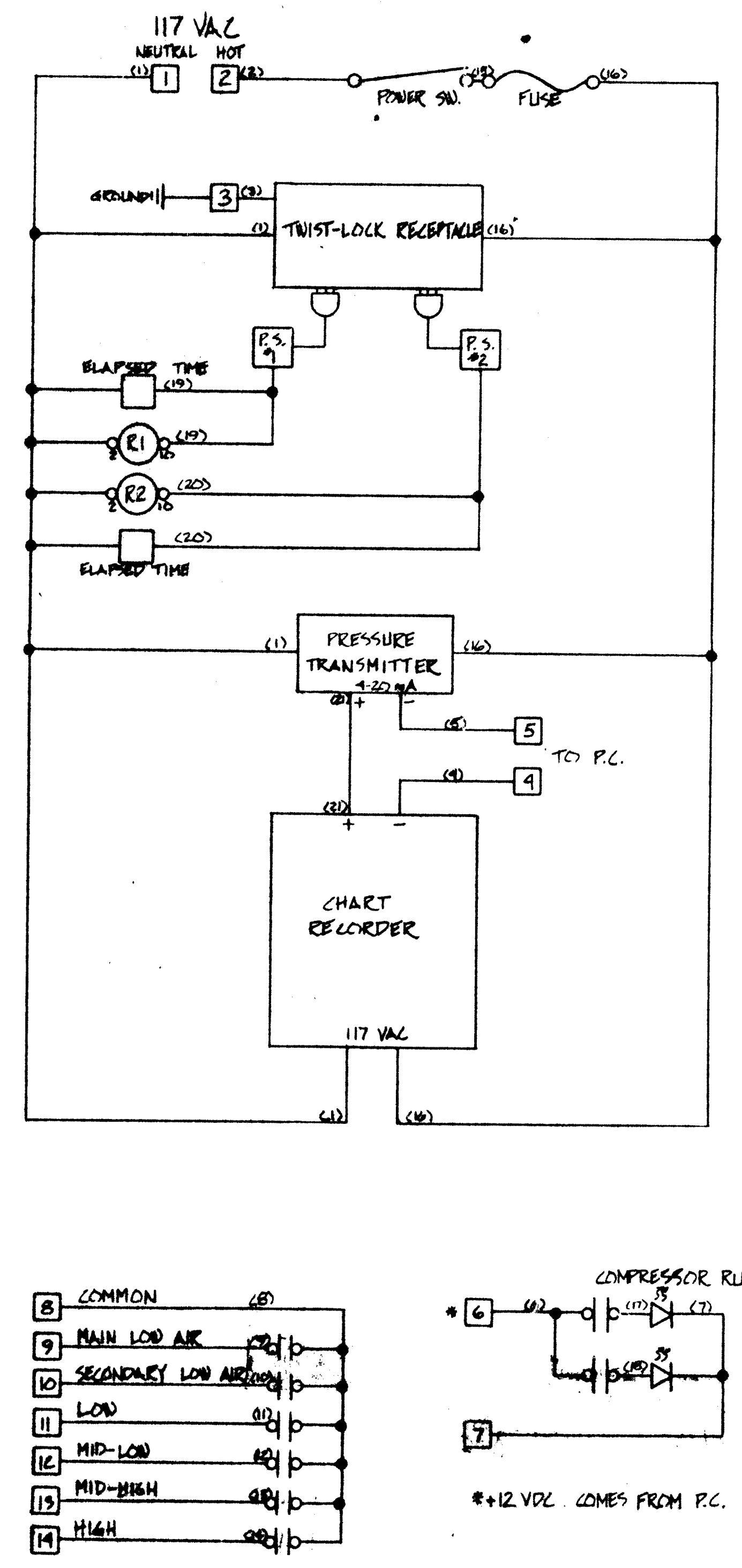
CITY ENGINEER DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM PUMP STATION REINFORCEMENT SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO.		1572		SHEET 9 OF 37	

PROJECT NO. 1823.13



- NOTE
1. M.P.S. - MERCURY PRESSURE SWITCH
 2. P.S. - PRESSURE SWITCH (AIR GAUGE)
P.S. IS MOUNTED ON THE COMPRESSOR.
 3. AIR FLOW METER ASSEMBLY INCLUDES THE DIFFERENTIAL AIR PRESSURE REGULATOR.
 4. I/O C. - INPUT/OUTPUT CARD
 5. ELAPSED TIMERS AND RELAYS ARE SUPPLIED WITH POWER WHEN P.S. CONTACTS CLOSE.
 6. MAIN AIR LINES - CLEAR
SECONDARY AIR LINES - YELLOW
 7. TBI - 1 AND 14



SCHEMATIC

1 2 3 4 5 6 7 8 9 10 11 12
2 6 1 5 7 2 0 9 8 6

1572

BFANM Systems Division

ALBUQUERQUE, NM

23 MAY 83

NO SCALE

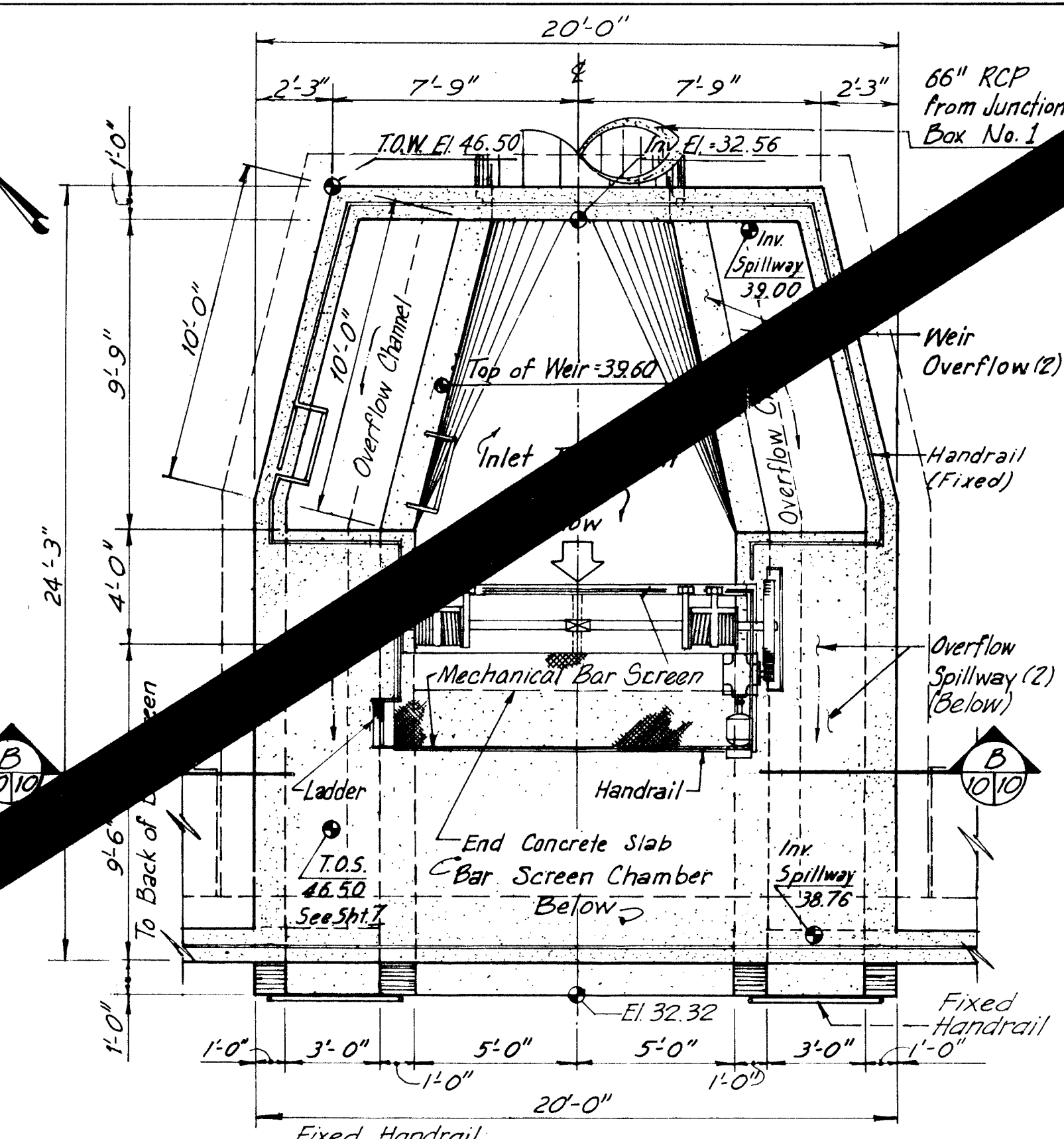
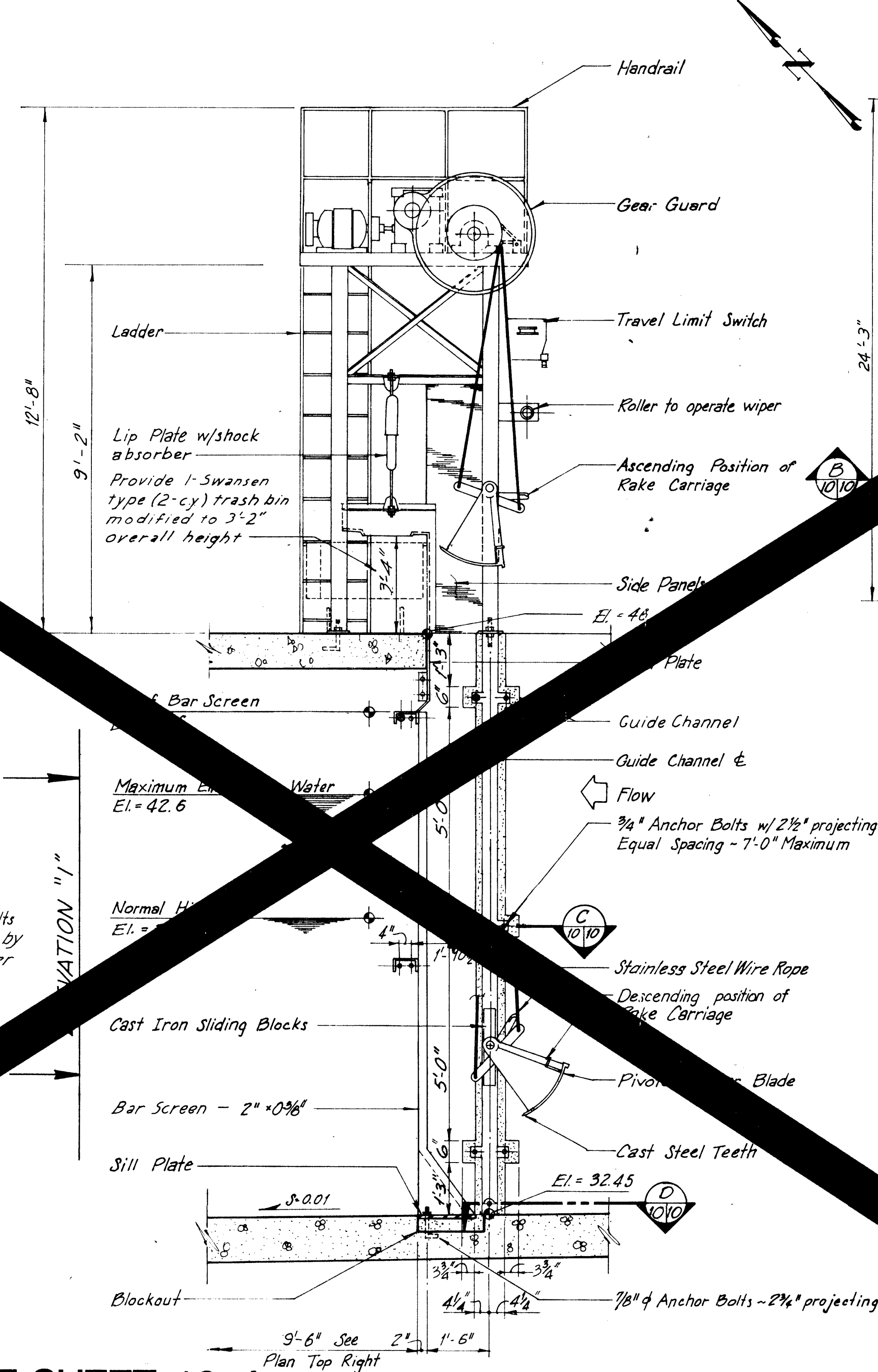
BUBBLER SYSTEM

BLOCK DIAGRAM

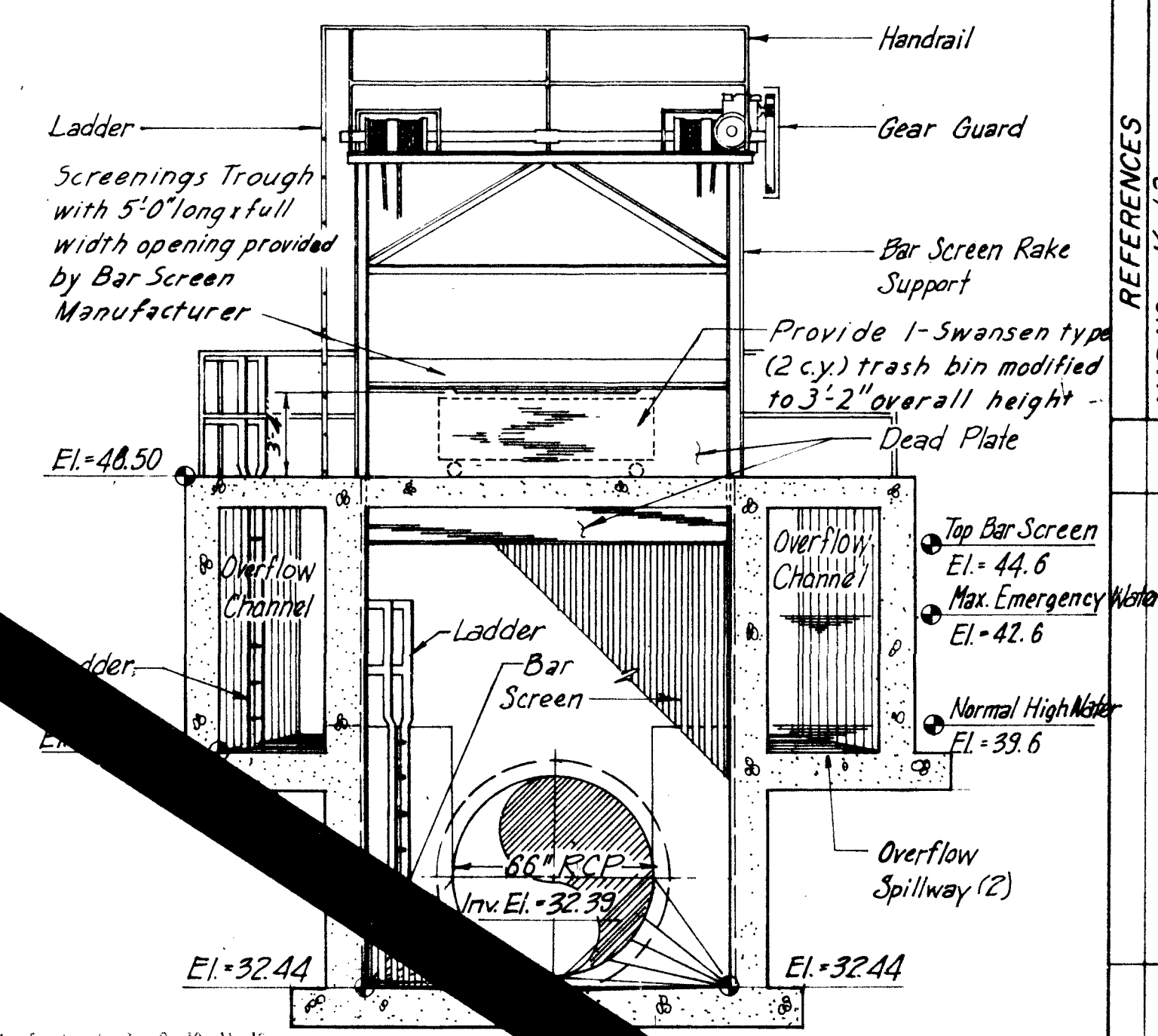
REVISIONS

CITY OF ALBUQUERQUE, NM

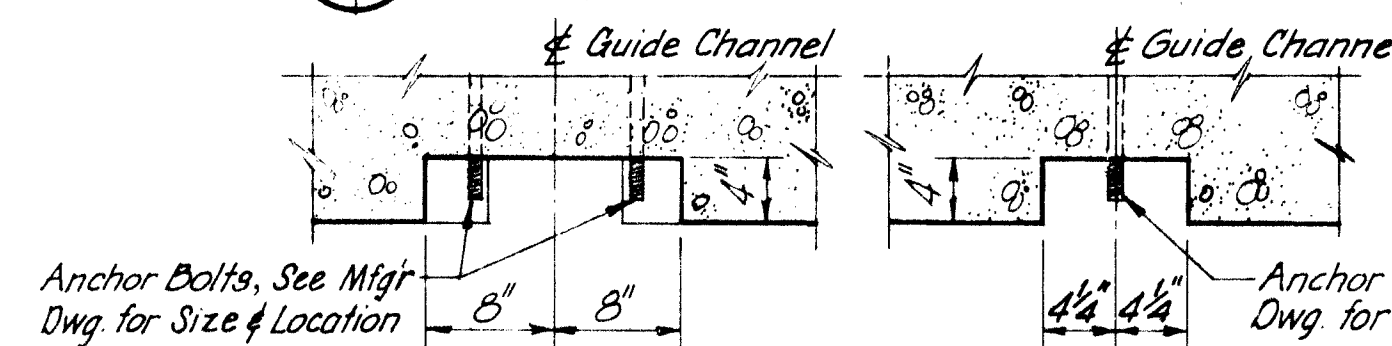
83009-420



PLAN @ INLET WORKS
Scale: $1/4" = 1'-0"$



A SECTION @ BAR SCREEN
10 10 Scale: 1/2" = 1'-0"



SECTION "I" ~ BAR SCREEN
Scale: $\frac{1}{2}" = 1'-0"$

SECTION @ ANCHOR BOLTS

SECTION C GUIDE

C SECTION

(D) SECTION

RECORD DRAWING
AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

PROJECT NO. 1823.13

PREPARED UNDER THE
DIRECTION OF



**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER

BAT

CITY OF ALBUQUERQUE
 WORKS DEPARTMENT
 PAVING DIVISION

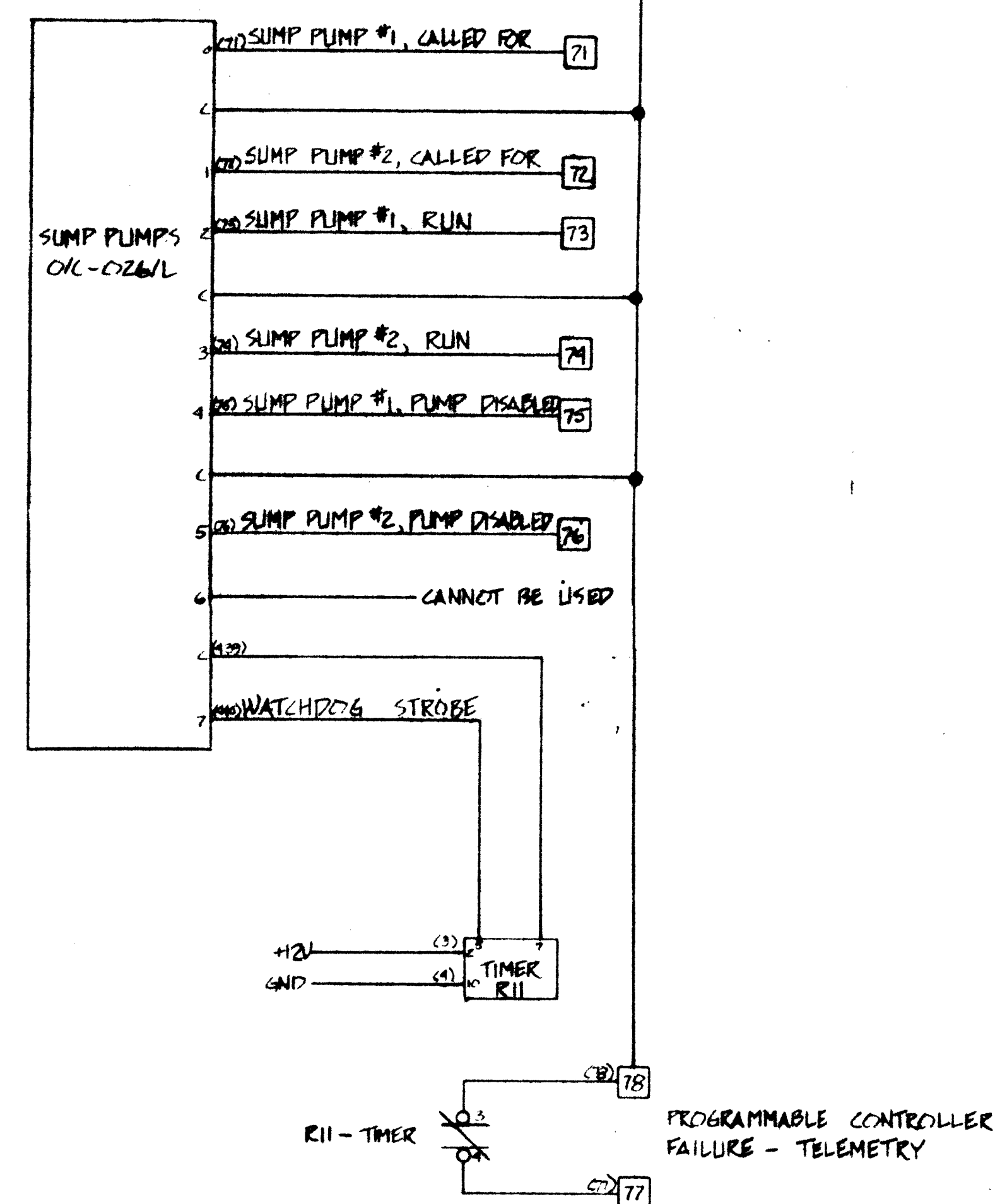
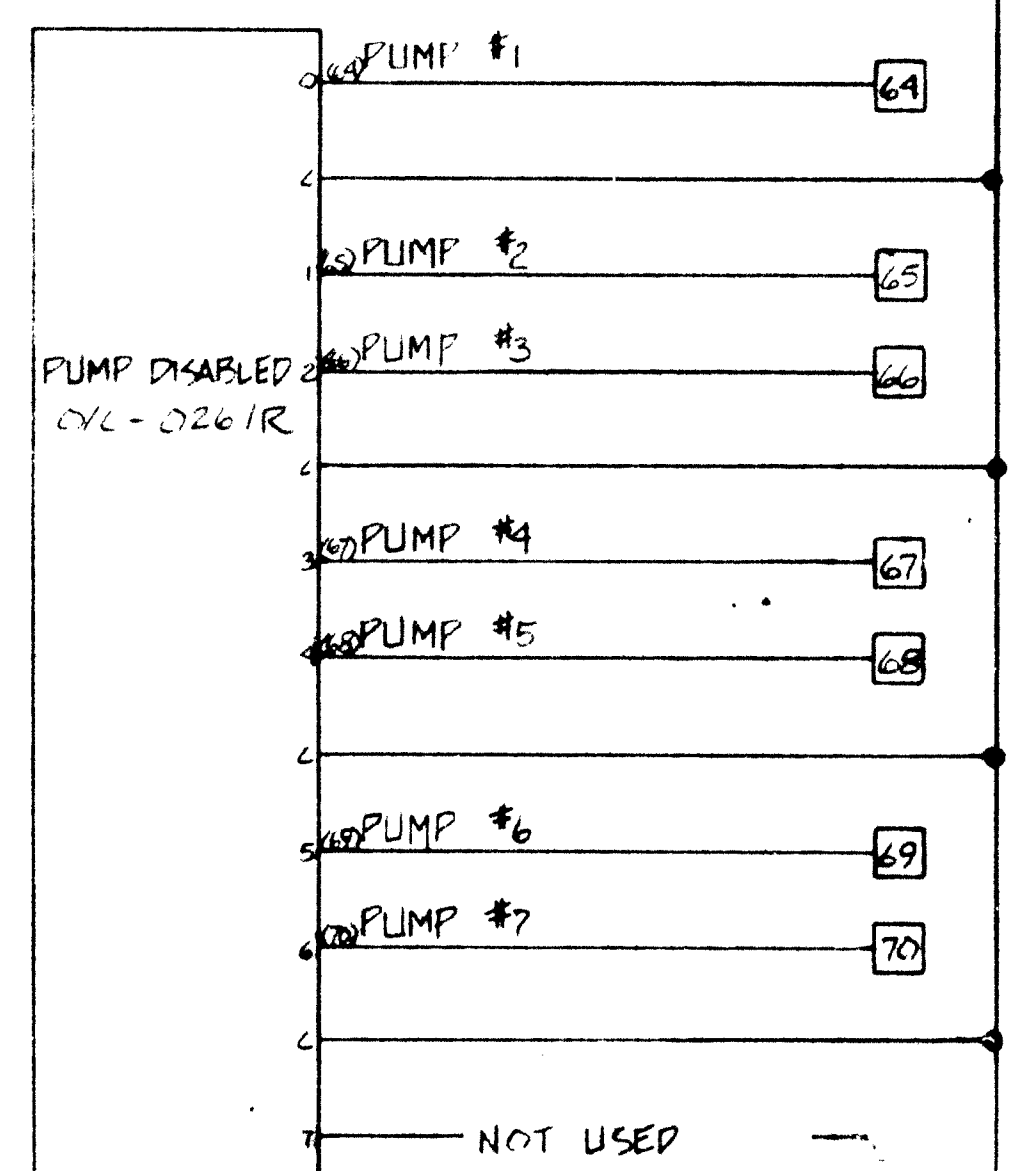
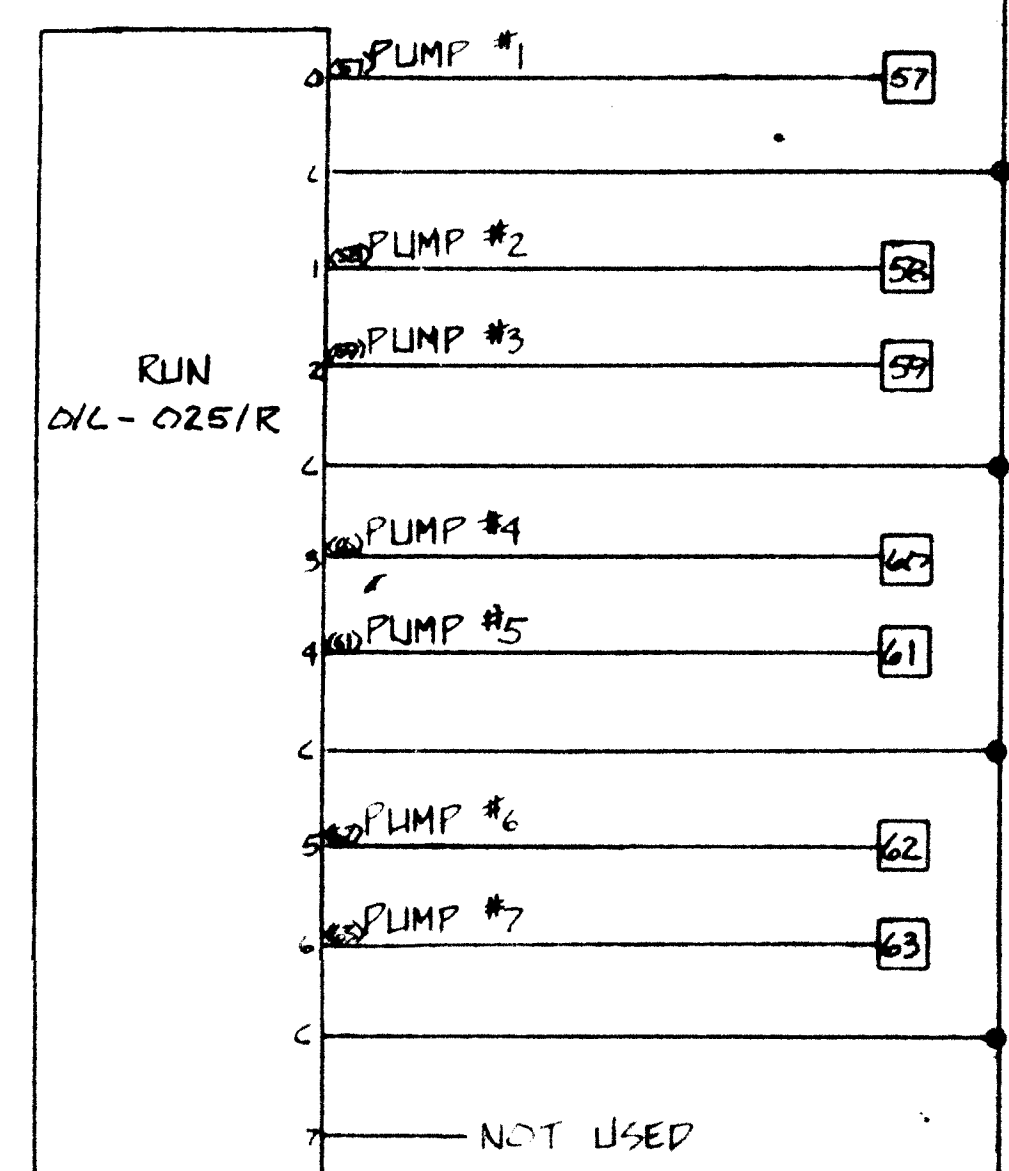
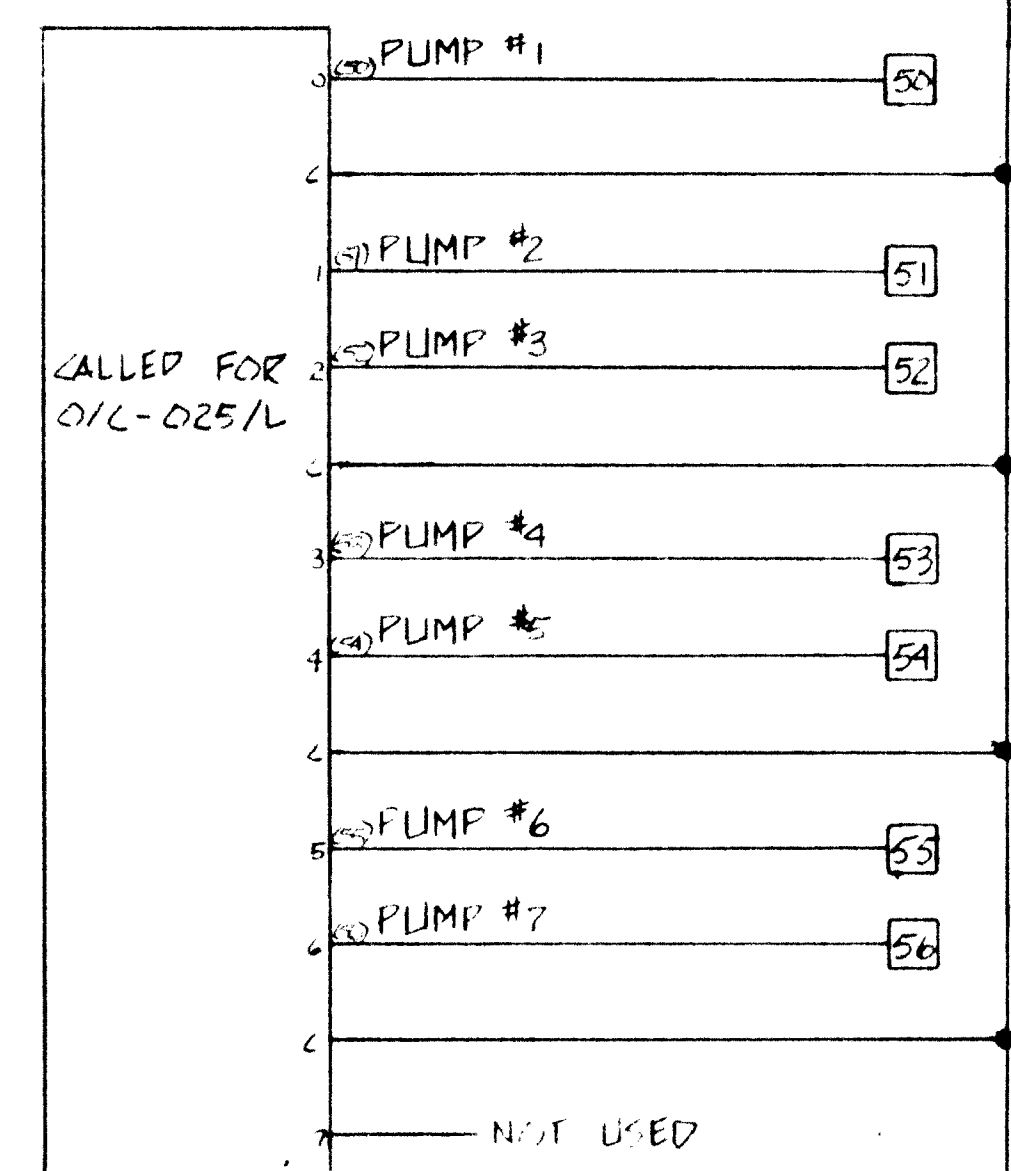
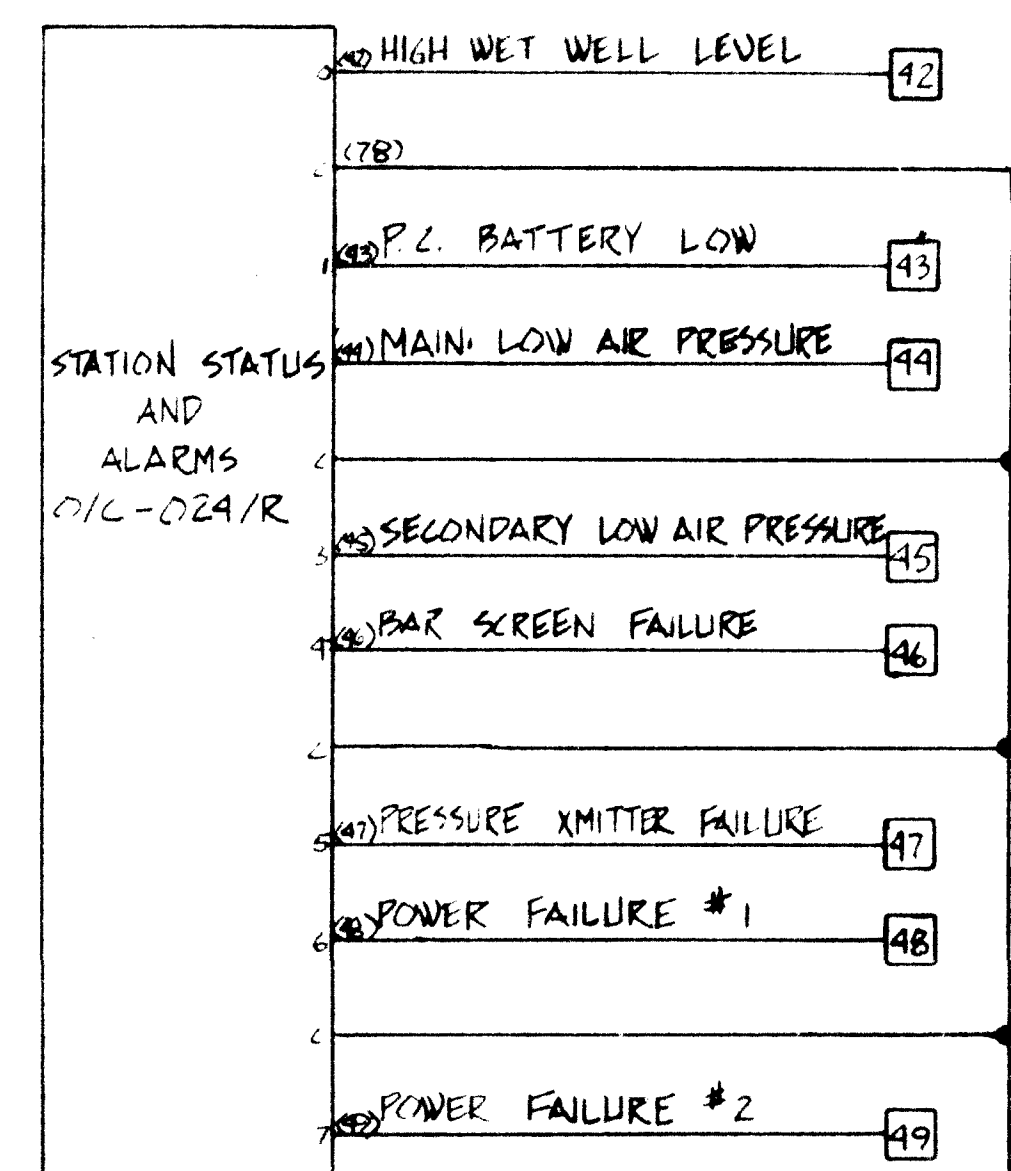
TITLE: ALCALDE STORM WATER TREATMENT STATION AND COLLECTION SYSTEM
PUMP STATION
BAR SCREENS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E - Design			Traffic		
A.C.E -Hydrology			Water		

DRAWING NO. 1572

DELETED

IC

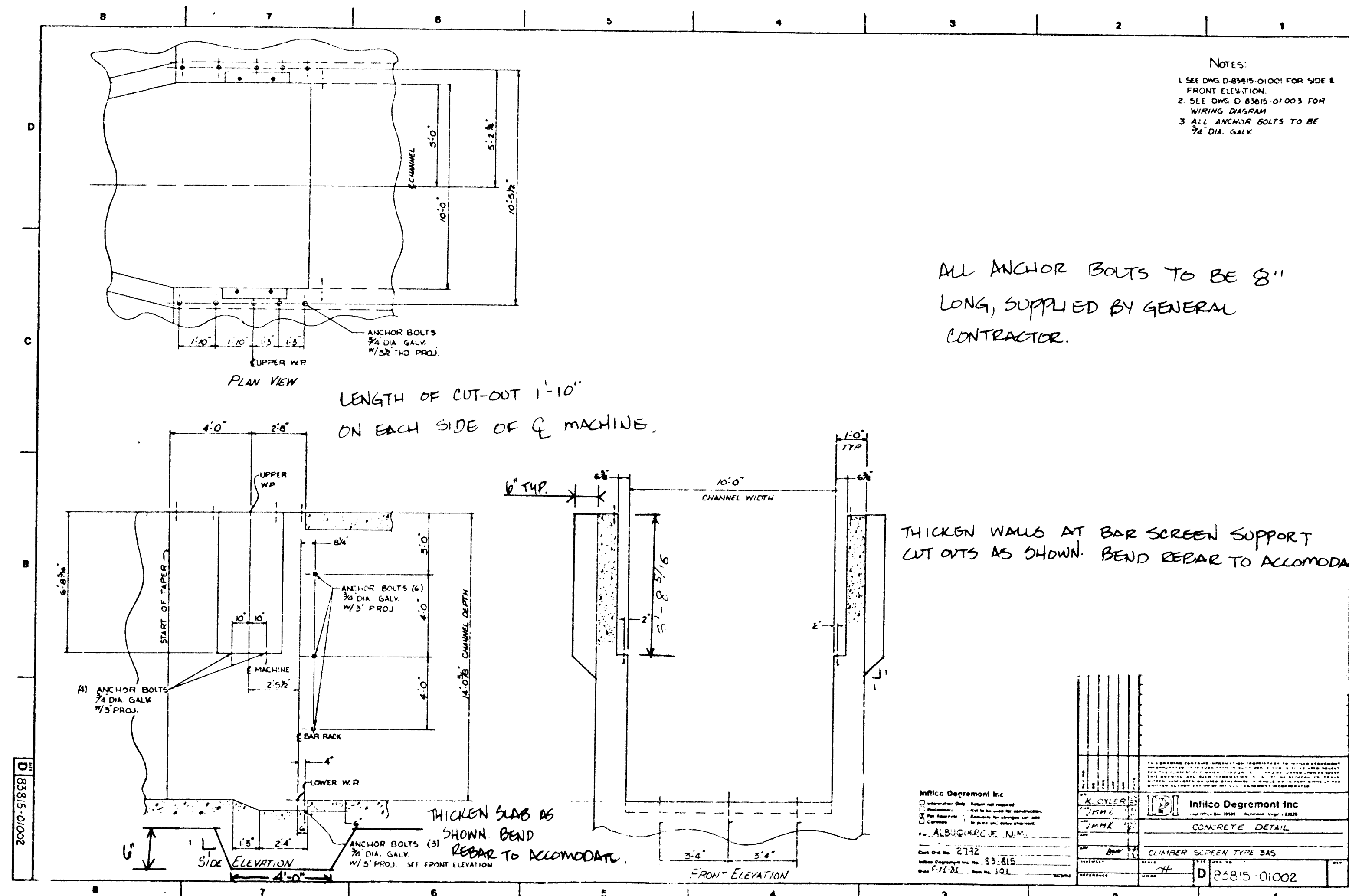


NOTE TB1 - 1 thru 79
TB2 - 80 thru 147
TB3 - 148 thru 215
TB4 - 216 thru 283
TB5 - DC POWER CONNECTIONS

26 15 7 2 1 0 8 6

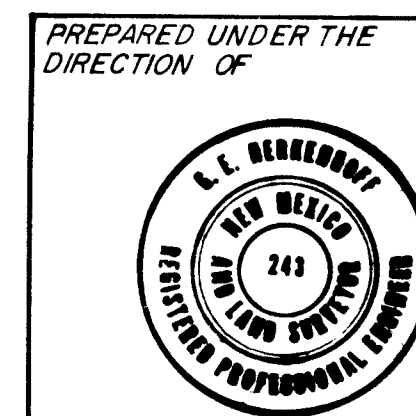
1572

BFANM Systems Division	
ALBUQUERQUE, NM	
22 AUG 88	NO SCALE
PROGRAMMABLE CONTROLLER TELEMETRY OUTPUT	
CITY OF ALBUQUERQUE, NMN	88010-420



These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

1	2	3	4	5	6	7	8	9	10	11	12
26		15	72	10	86	4					



**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER

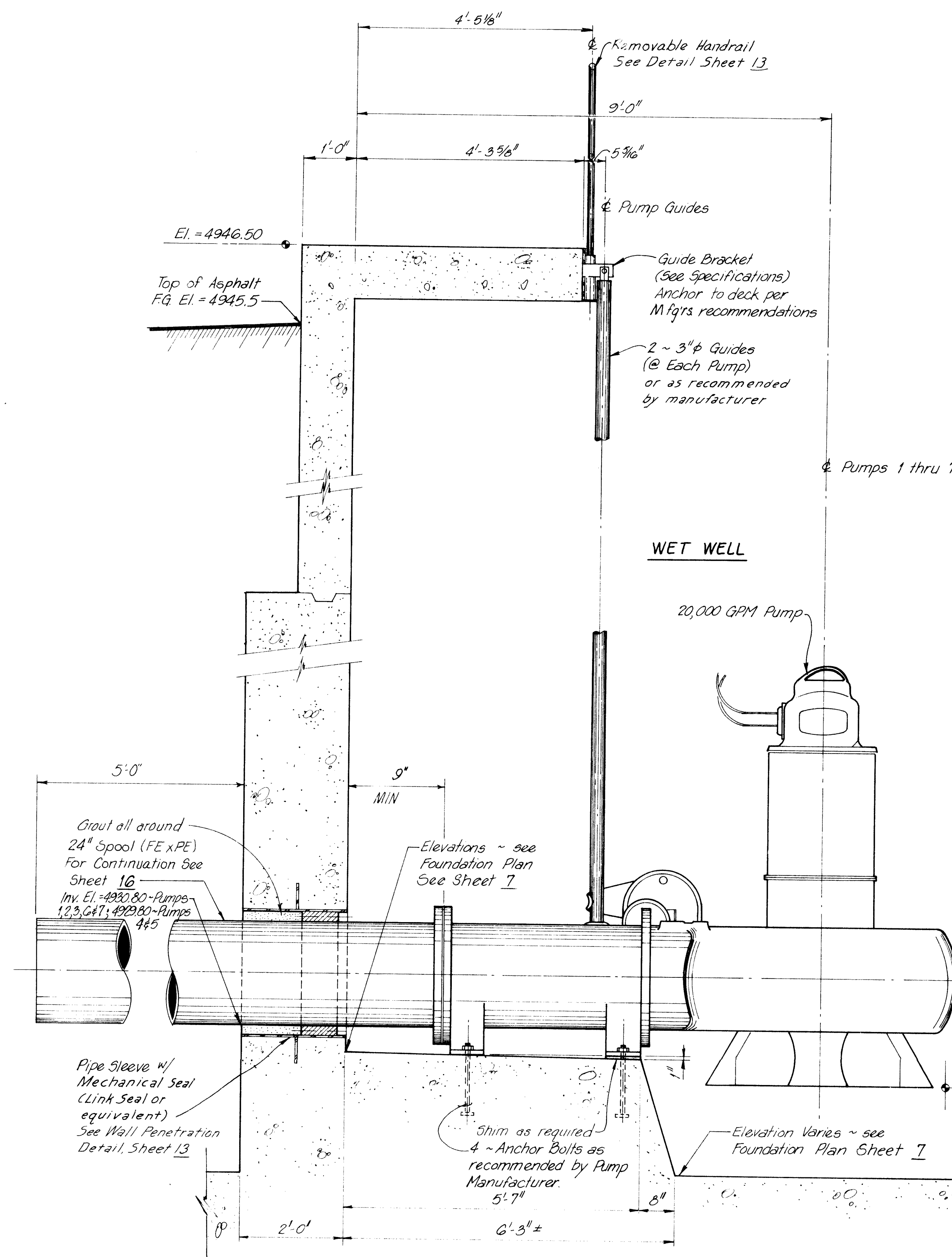
CITY OF ALBUQUERQUE	
PUBLIC WORKS DEPARTMENT	
ENGINEERING DIVISION	
TITLE	ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
	PUMP STATION
	BAR SCREEN DETAILS

BAY SCREEN DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E -Hydrology			Water		

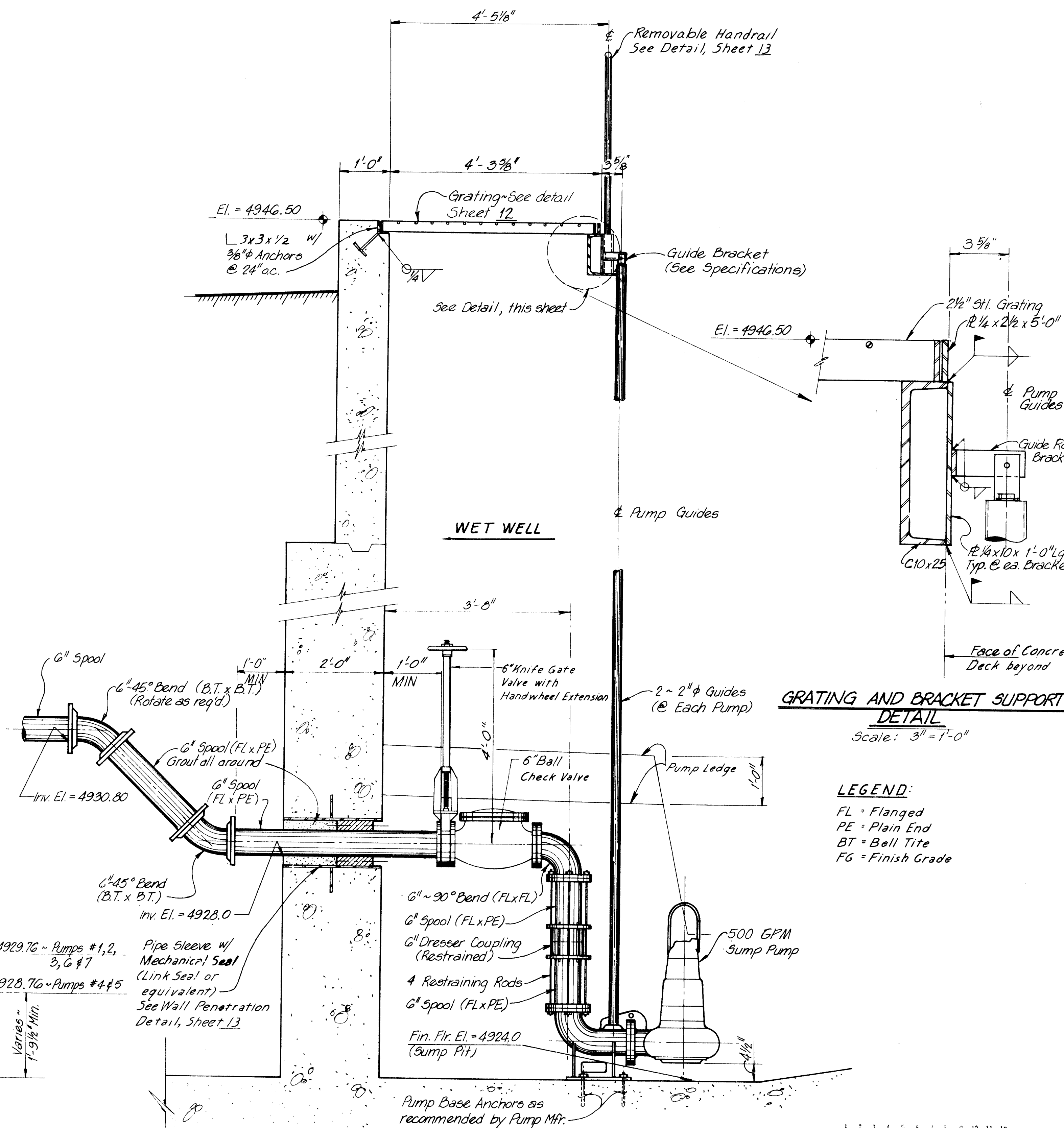
DRAWING NO. 1572

SHEET 10-A OF 37

		REFERENCES		SURVEY		FIELD NOTES		BENCH MARKS		AS BUILT		INFORMATION	
		MAP NO.	EST. NO.	W.O. NO.	NO.	BY	DATE						
NO.	DATE	REMARKS		BY									
REVISIONS													
DESIGN													
DESIGNED BY	DATE												
DRAWN BY	DATE												
CHECKED BY	DATE												
3-K13: chiseled on top of conc curb at WSW/curb return, inty of 12th st and Stover Ave SW ELEV. 4945.006 6-K13: BWH Brass Cap set in conc flush with ground, 5.7' SE of power pole, NE corner of inty of Tingley Dr. SW and Alameda. ELEV. 4956.95 TBM: Nail set on top of easternmost guard post, N. side of asphalt drive by residence. ELEV. 4948.29 (GWA Alameda BK 3 Pg 31)													
WORK BY INSPECTED BY ACCEPTANCE BY FIELD ACTION BY DRAWINGS CORRECTED BY MICRO-FILM RECORDED BY NO													



SECTION (TYPICAL @ PUMPS 1 THRU 7)
Scale: 3/4" = 1'-0"

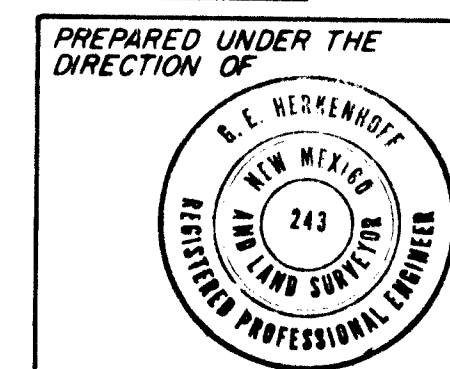


SECTION ~ SUMP PUMP
Scale: 3/4" = 1'-0"

GRATING AND BRACKET SUPPORT
Scale: 3" = 1'-0"

LEGEND:
FL = Flanged
PE = Plain End
BT = Ball Tite
FG = Finish Grade

RECORD DRAWING
AUG 1 1984
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APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

PROJECT NO. 1823.13

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM					
PUMP STATION					
SECTIONS AT PUMP LOCATIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1572			SHEET 11 OF 37		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS	
CONTRACTOR	DATE	3-K13	DATE	MAP NO.	EST. NO.	NO.	DATE	NO.	DATE
WORK STARTED BY	DATE	chiseled on top of conc curb at NW	DATE	W.O. NO.	BY	DESIGNED BY	DATE	DESIGNED BY	DATE
FIELD FORCE	DATE	curb return, int. of 12th St. and Slater Ave SW	DATE			DRAWN BY	DATE	DRAWN BY	DATE
ACCEPTANCE BY	DATE	ELEV. 4945.006	DATE			CHECKED BY	DATE	CHECKED BY	DATE
VERIFICATION BY	DATE	G-K19: BWH Brass Cap set in conc. flush with	DATE						
CORRECTION BY	DATE	ground, 6.7' S.E. of power pole, N.E. corner of int.	DATE						
MICRO-FILM INFORMATION		at Tindley Dr. SW and Alameda H. ELEV. 4945.95							
RECORDED BY	DATE	TBM - Mail set on top of easternmost guard							
NO.		post N side of asphalt drive by zoo fence							
		ELEV. 4948.29 (at Alameda St. 3' S. of fence)							

BILL OF MATERIALS

JOB: ALCALDE STORM WATER PUMPING STATION

DATE: 28 AUGUST 1988

ITEM	DESCRIPTION	QTY	CONTROL PANEL	BUBBLER SYSTEM	SPARES
1	HOFFMAN ENCLOSURE A-724818FSD	1	1	-	-
2	HOFFMAN SUBPANEL A-72P48F1	1	1	-	-
3	DIALIGHT L.E.D. RED 507-4760-3331-5000	73	66	-	7
4	DIALIGHT L.E.D. GREEN 507-4860-3332-5000	12	9	2	1
5	DIALIGHT L.E.D. YELLOW 507-4960-3333-5000	11	9	-	1
6	DIALIGHT L.E.D. SOCKETS 250-8738-14-504	86	81	2	-
7	ALLEN BRADLEY H-O-A SWITCHES 800MS-J42K	10	9	-	1
8	CHERRY THUMBWHEEL SWITCHES T75-52-M4	2	1	-	1
9	CHERRY THUMBWHEEL SWITCHES T71-52M	3	2	-	1
10	IEE DISPLAY BEZEL DMH1752P-04	1	1	-	-
11	IEE DISPLAY DECODERS DMH1760-01	5	4	-	1
12	HEWLETT PACKARD DISPLAYS HPSD-3400	5	4	-	1
13	PANUIT WIRING DUCT 1"X3" E1X3L66, C1L66	1	1	-	-
14	PANUIT WIRING DUCT 2"X3" E2X3L66, C2L66	3	2 1/2	-	-
15	PANUIT WIRING DUCT 3"X5" E3X5L66, C3L66	1	1	-	-
16	POTTER BRUMFIELD RELAYS KRP-NMD612	14	10	2	2
17	POWER ONE +12V POWER SUPPLY D15-6	2	1	-	1
18	POWER ONE +15,+5 POWER SUPPLY HTAA-16W	2	1	-	1
19	BUSMAN FUSE HOLDER #2807	2	1	1	-
20	RELAY SOCKETS (IDEC) SR3P-05	13	11	2	-
21	AB PROGRAMMABLE CONTROLLER PLC-2/30 1772-LP3	1	1	-	-
22	AB INDUSTRIAL TERMINAL 1770-T3	1	1	-	-
23	AB DATA CARTRIDGE RECORDER 1770-SB	1	1	-	-
24	AB DC OUTPUT MODULES 1771-03	16	14	-	2
25	AB DC INPUT MODULES 1771-1B	7	6	-	1
26	AB MODULE CARD CAGE 1771-AD	2	2	-	-
27	AB I/O ADAPTER MODULE 1771-AL	2	2	-	-
28	AB AUXILIARY POWER SUPPLY 1771-P2	2	1	-	1
29	AB MEMORY MODULE 1772-ME	1	1	-	-
30	AB MEMORY (2K) SEGMENTS 1772-M5	2	2	-	-
31	AB ANALOG INPUT CARD 1771-1EQ5	1	1	-	-
32	AB ADAPTER MODULE CABLE 1777-CA	2	2	-	-
33	AB POWER CABLE 1771-CK	1	1	-	-
34	AB POWER CABLE 1771-CE	1	1	-	-
35	AB CONTACT BLOCK 8000M-XA3	20	18	-	2
36	AB LEGEND PLATE 8000MS-W5 000 HAND, AUTO, OFF	10	9	-	1
37	TRW EDGE CONNECTOR 251-06-50-171	4	4	-	-
38	IDEC SOCKET MOUNTING RAIL BNPL-1000	1	1/8	1/8	-
39	IDEC HOLD-DOWN SPRINGS SR3B-02F1	12	10	2	-
40	AB TERMINAL BLOCKS 1492-CD8	6	3	3	-
41	AB TERMINAL BLOCKS 1492-F8	289	278	11	-
42	AB MOUNTING CHANNEL 1492-N1	4	3 3/4	1/4	-
43	AB END BARRIER 1492-N16	2	1	1	-
44	AB END BARRIER 1492-N18	2	1	1	-
45	AB END ANCHOR 1492-N23	10	8	2	-
46	MERLOID PRESSURE SWITCH DA-531-1	6	-	6	-
47	BRISTOL CHART RECORDER 4330	1	-	1	-
48	VIATRAN PRESSURE TRANSMITTER 501	1	-	1	-
49	HOFFMAN ENCLOSURE (BUBBLER) A-723624FSDA	1	-	1	-
50	HOFFMAN SUBPANEL (BUBBLER) A-72P36F2	2	-	2	-
51	ISOLATION DIODES 1N4001	74	68	-	6
52	POWER SWITCH	2	1	1	-
53	AB DRY CONTACT OUTPUT MODULE 1771-02C	5	5	-	-
54	AB TTL OUTPUT MODULE 1771-04C (+5V)	1	1	-	-
55	AGASTAT TIME-DELAY RELAY SSC22QDA	1	1	-	-
56	ITT AIR COMPRESSOR LGH-305-H02	2	-	2	-
57	DWYER AIR FLOW METER VF SERIES (W/DIFFERENTIAL PRESSURE REGULATOR) VFA-2	2	-	2	-
58	CRAMER ELAPSED TIMER 105EH200-M	2	-	2	-
59	POLY-FLO POLYETHYLENE TUBING 1/4" 44-P YELLOW	50'	-	50'	-
60	POLY-FLO POLYETHYLENE TUBING 1/4" 44-P NATURAL	20'	-	20'	-
61	POLY-FLO NEEDLE VALVES	7	-	7	-
62	POLY-FLO 3-WAY BALL VALVES	2	-	2	-
63	TWIST-LOCK RECEPTACLE 125V 15A DUREX				

26 15721186

1572

BFANM Systems Division

ALBUQUERQUE, NM

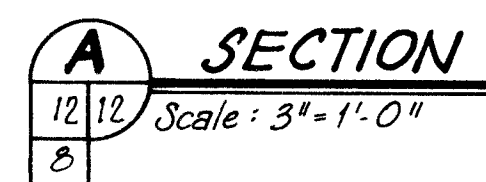
28 SEPT 88

ALCALDE PUMP STATION

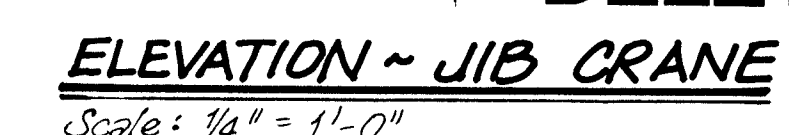
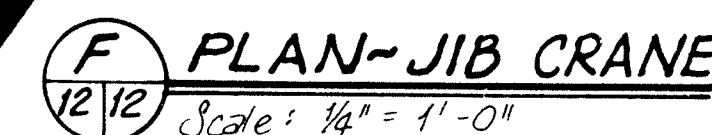
BILL OF MATERIALS

CITY OF ALBUQUERQUE, NM

83011-420



NOTE:
All edges of grating shall be banded
w/ $1/8 \times 2\frac{1}{2}$ bar welded to grating.



DETAIL ~ GRATING ANCHORAGE
Not to Scale

RECORD DRAWING
Date **AUG 1 1984**

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

PROJECT NO. 1823.13

PREPARED UNDER THE
DIRECTION OF



APPROVED FOR
CONSTRUCTION

CITY ENGINEER DATE

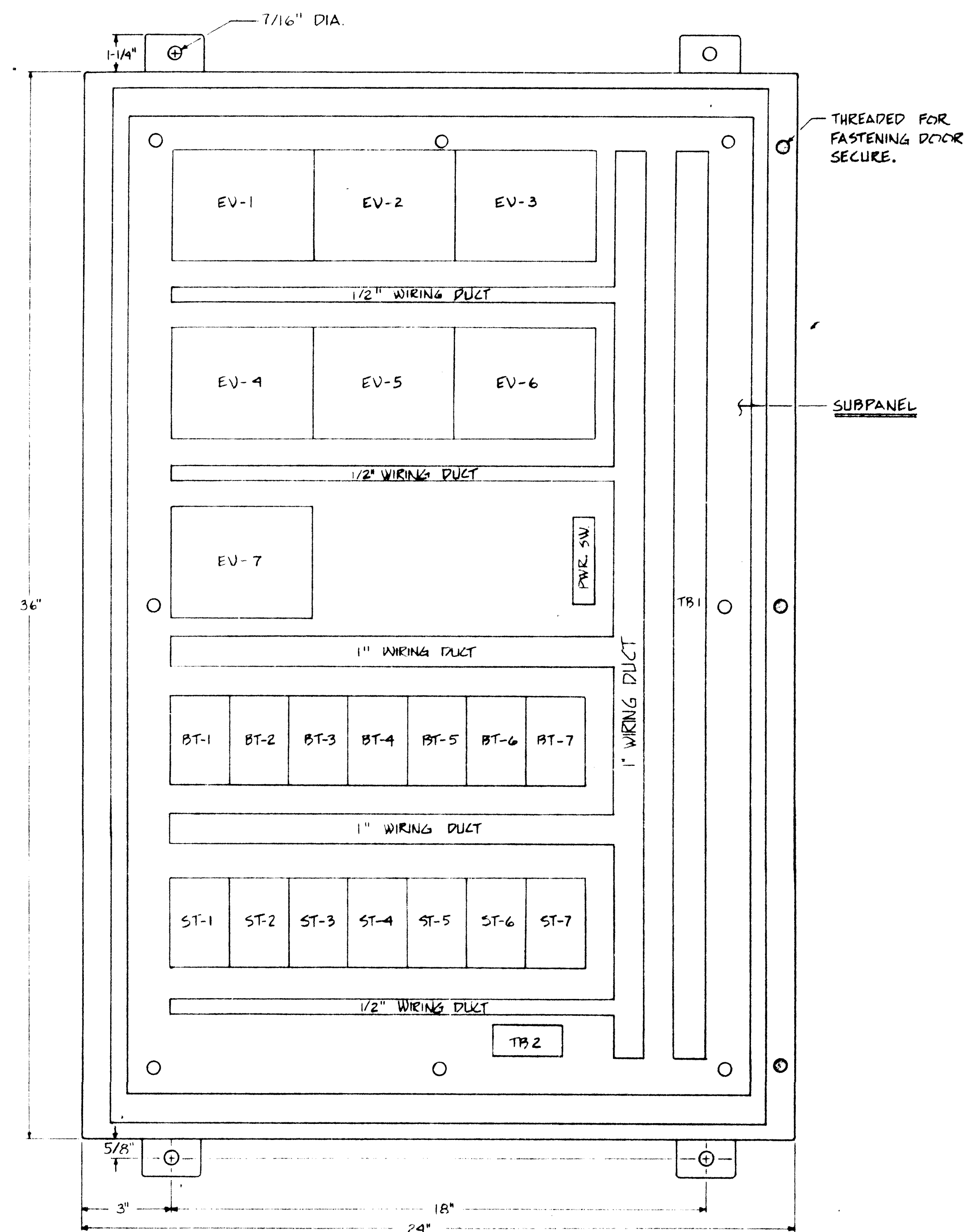
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
PUMP STATION
GRATING PLAN and DETAILS

GRATING PLAN - GUS DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

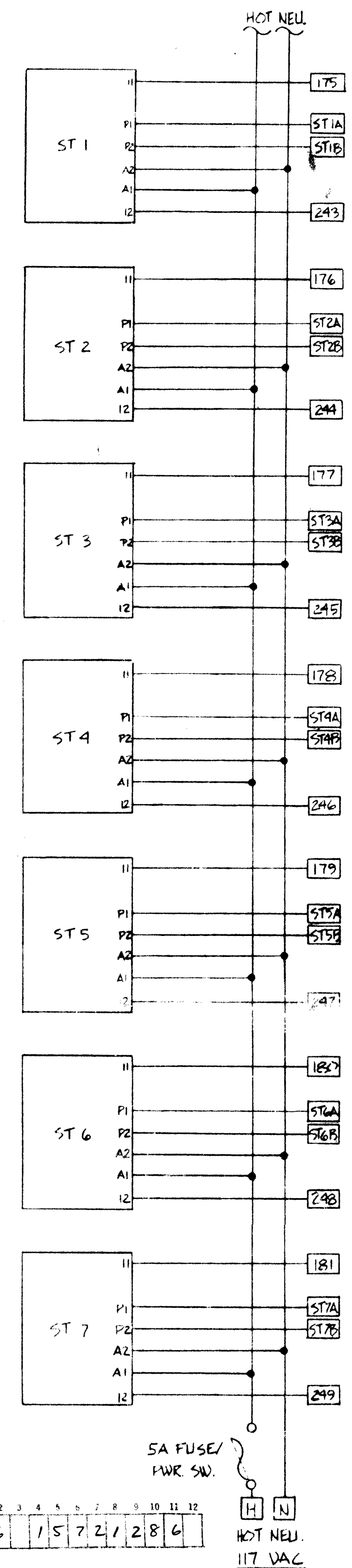
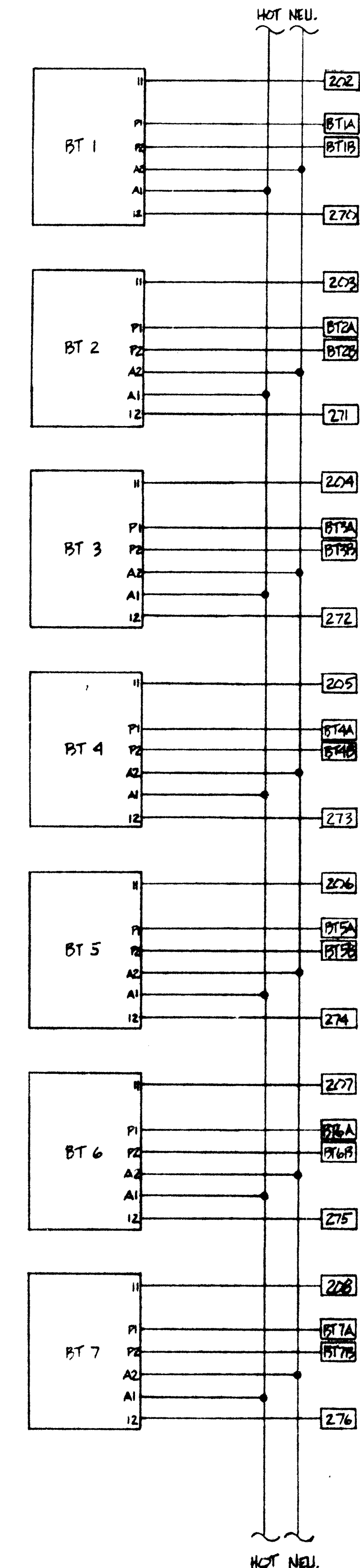
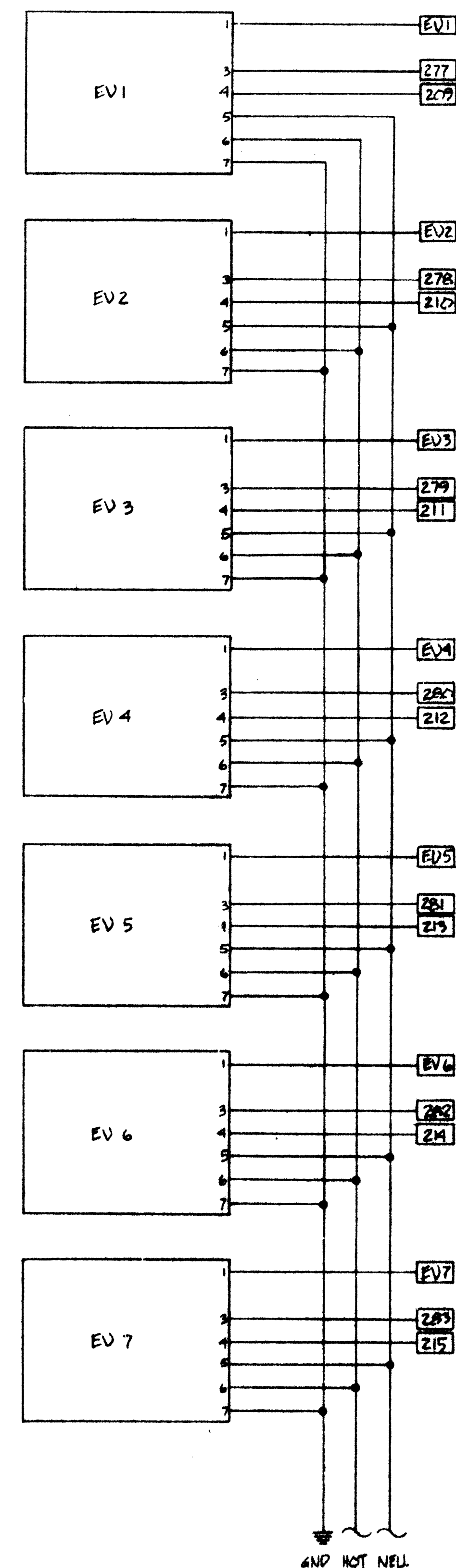
DRAWING NO.	1572
-------------	------

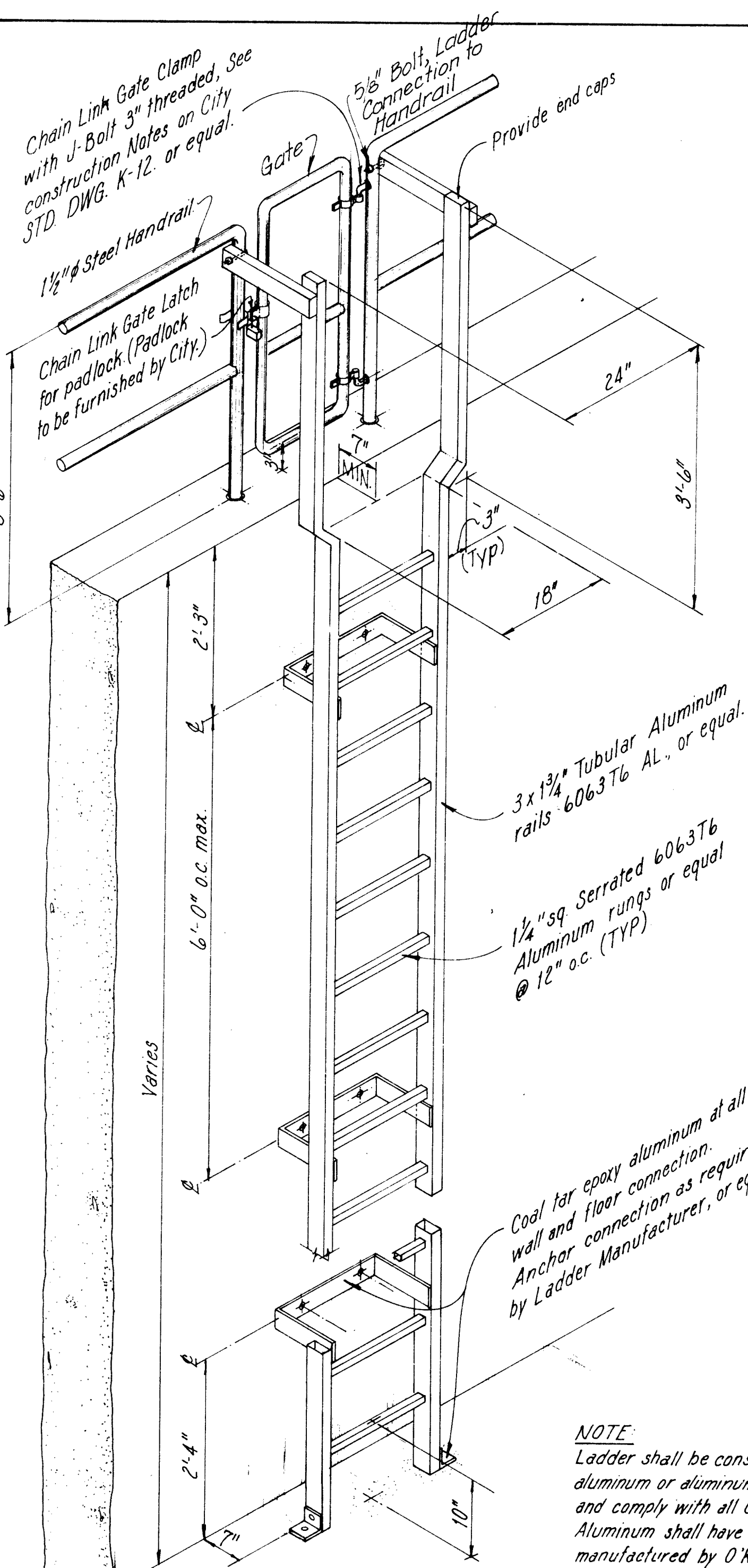
SHEET 12 OF 37



PANEL LAYOUT
w/o Door or Hinge

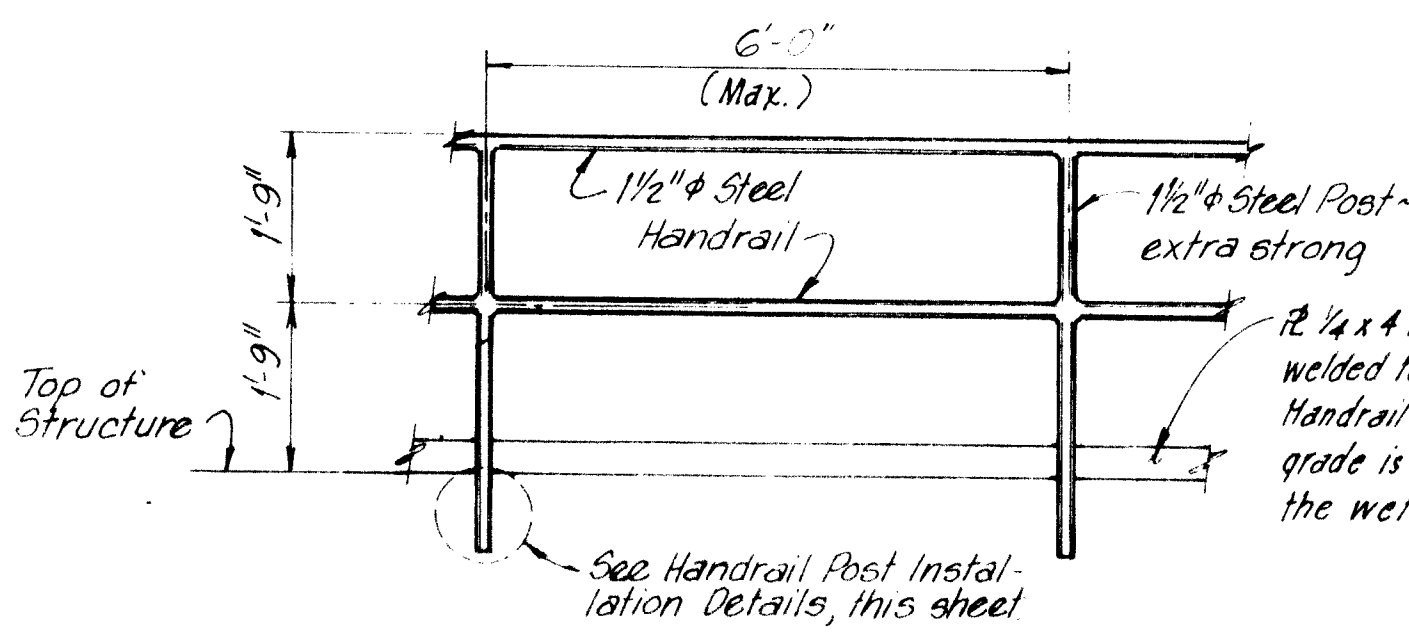
- NOTES: 1. PANEL - 14 GAUGE, CONTINUOUS HINGE, THE DOOR HAS NOT BEEN ALTERED.
2. SUBPANEL - 33 IN. (HEIGHT) X 21 IN. (WIDTH); 12 GAUGE STEEL
3. EV - EXCESSIVE VIBRATION MONITOR
BT - BEARING TEMPERATURE MONITOR
ST - EXCESSIVE STATOR WINDING TEMPERATURE MONITOR
4. TB1 - 11. HOT
N, NEUTRAL } 117 VAC
G, GROUND
175 thru 283, MONITOR CONTROL STATUS TO CONTROL PANEL
ALL OTHERS, INCOMING STATUS FROM STORM WATER PUMPS
5. TB2 - GROUNDING BLOCK





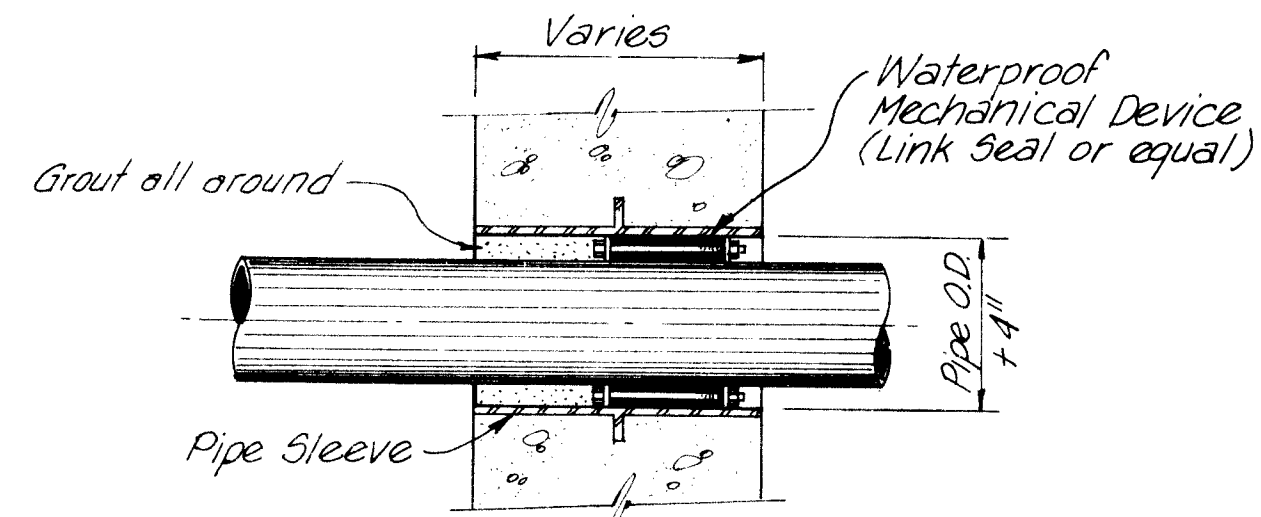
LADDER DETAIL

Scale: $\frac{3}{4}" = 1'-0"$



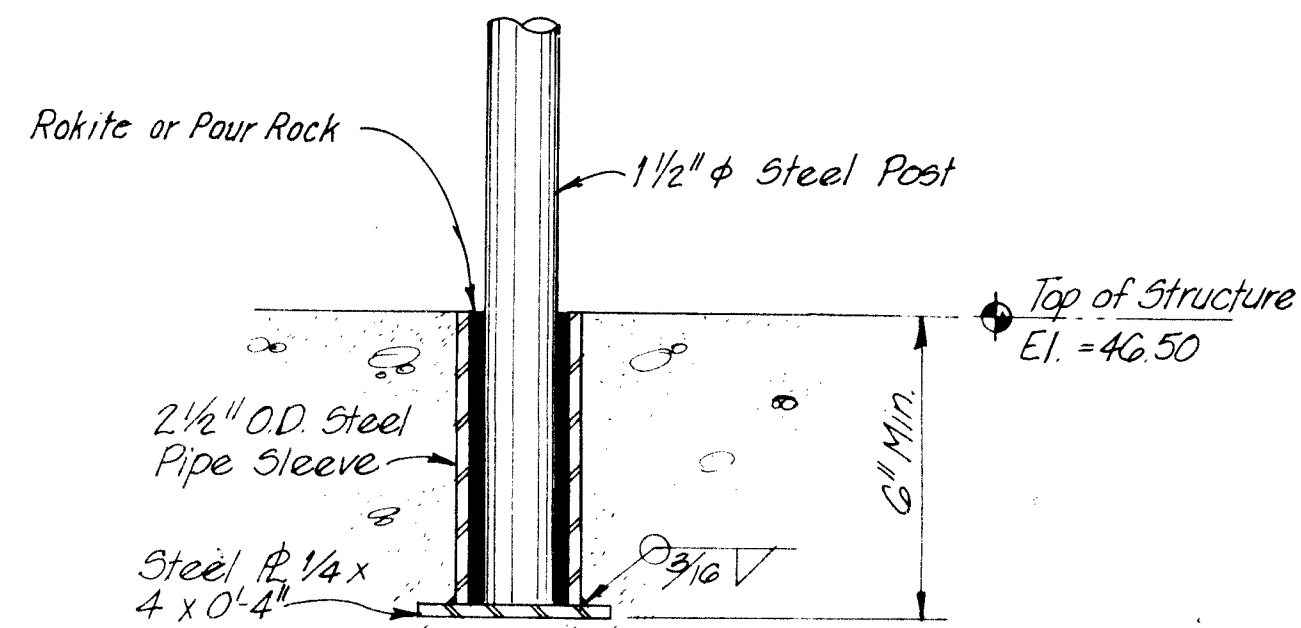
HANDRAIL DETAIL

Scale: $\frac{1}{2}'' - 1' 0''$



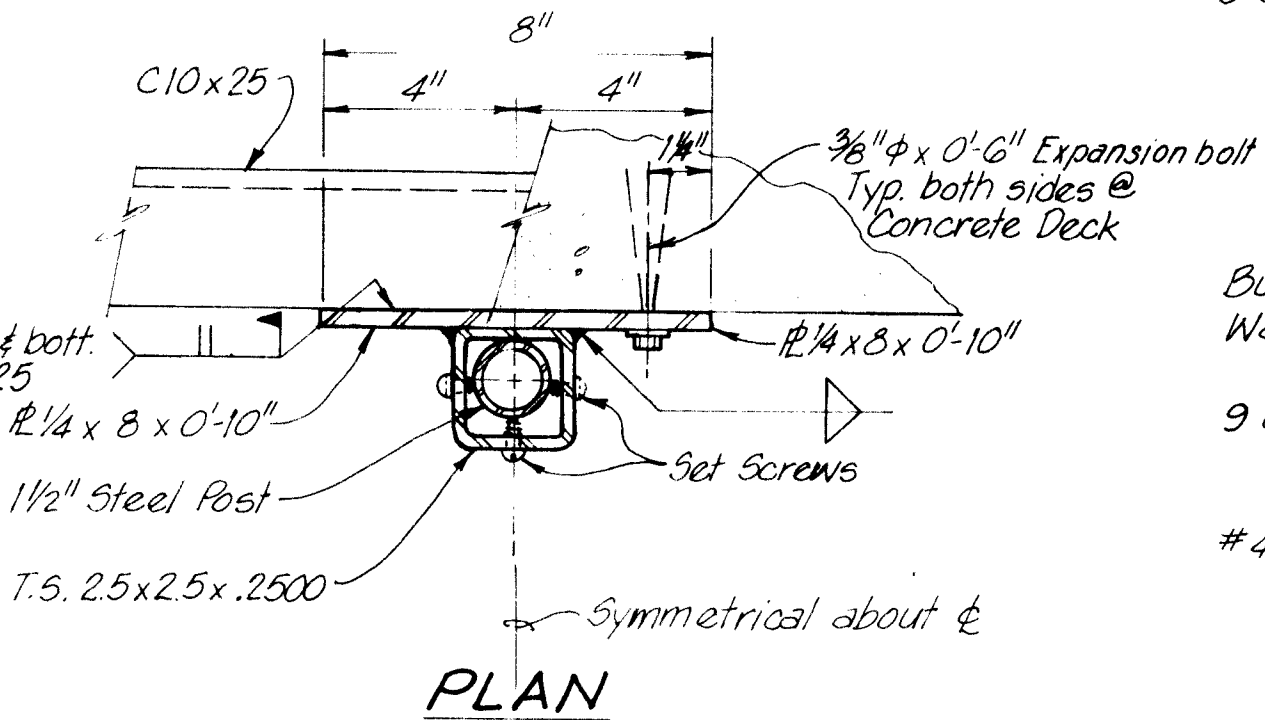
PIPE SLEEVE DETAIL

No Scale

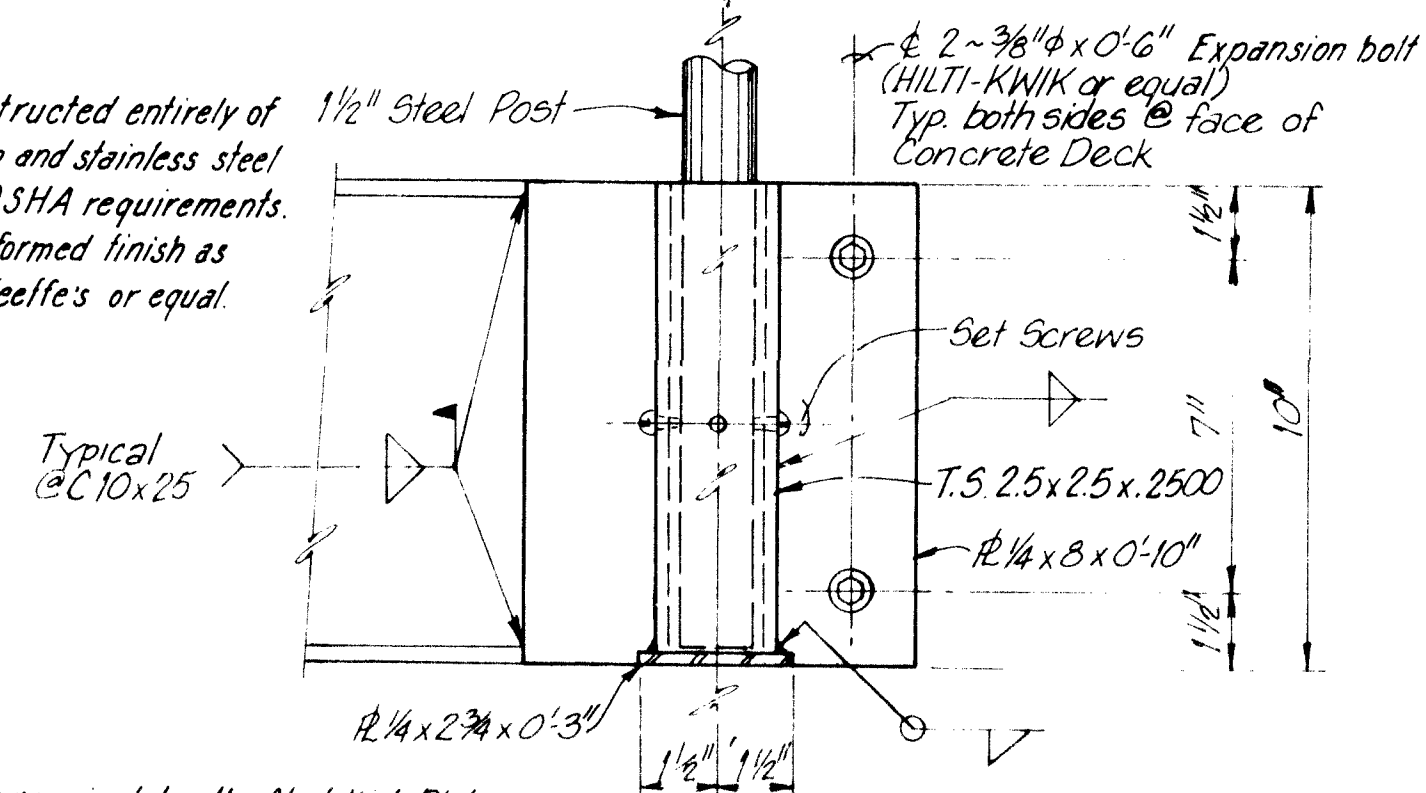


FIXED HANDRAIL POST INSTALLATION DETAIL

Scale: $3'' = 1' - 0''$



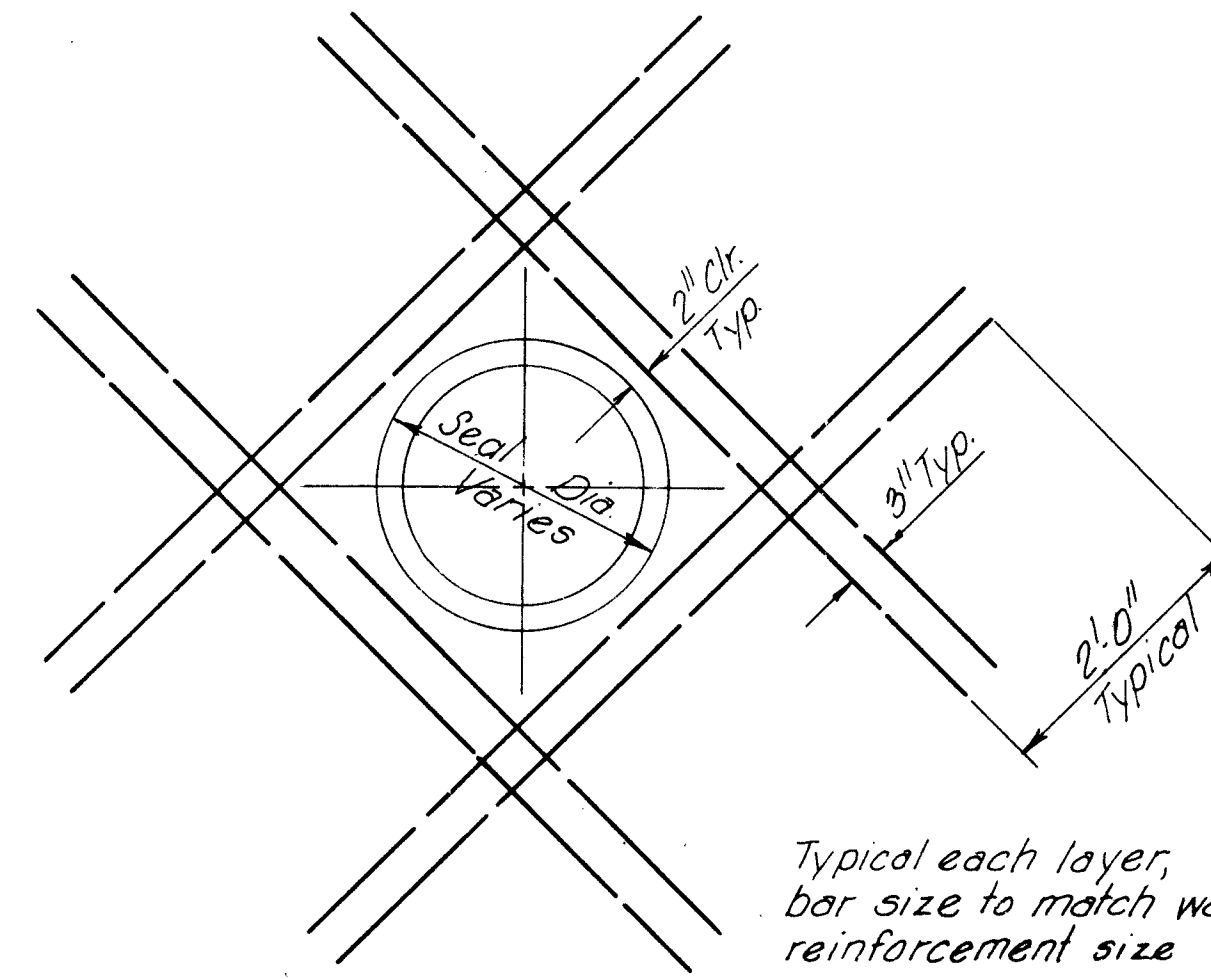
PLAN



ELEVATION

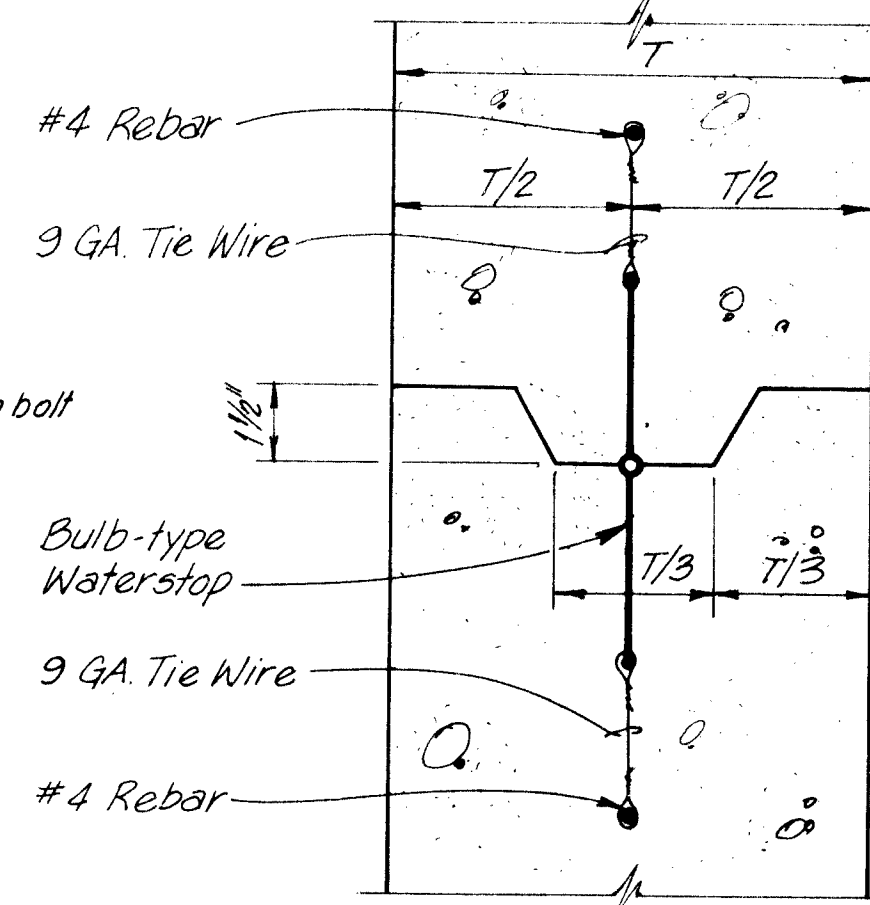
REMOVABLE HANDRAIL POST INSTALLATION DETAIL

Scale: $3'' = 1'-0''$



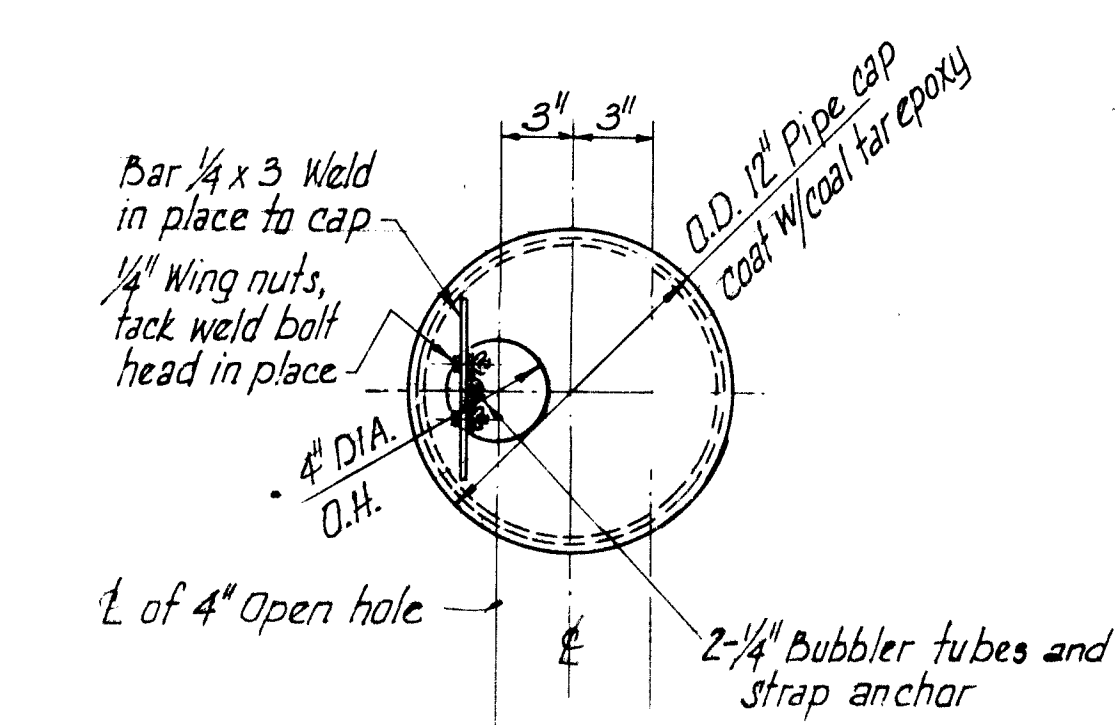
PIPE OPENING
REINFORCEMENT DETAIL

No Scale

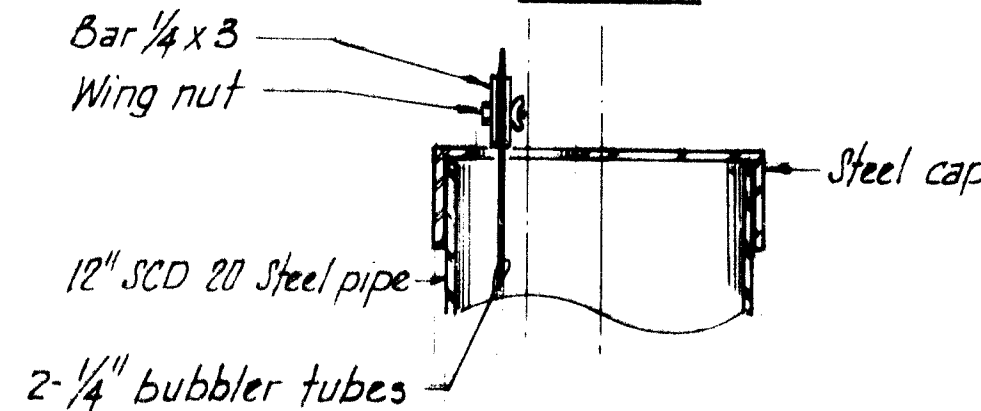


WATERSTOP DETAIL.

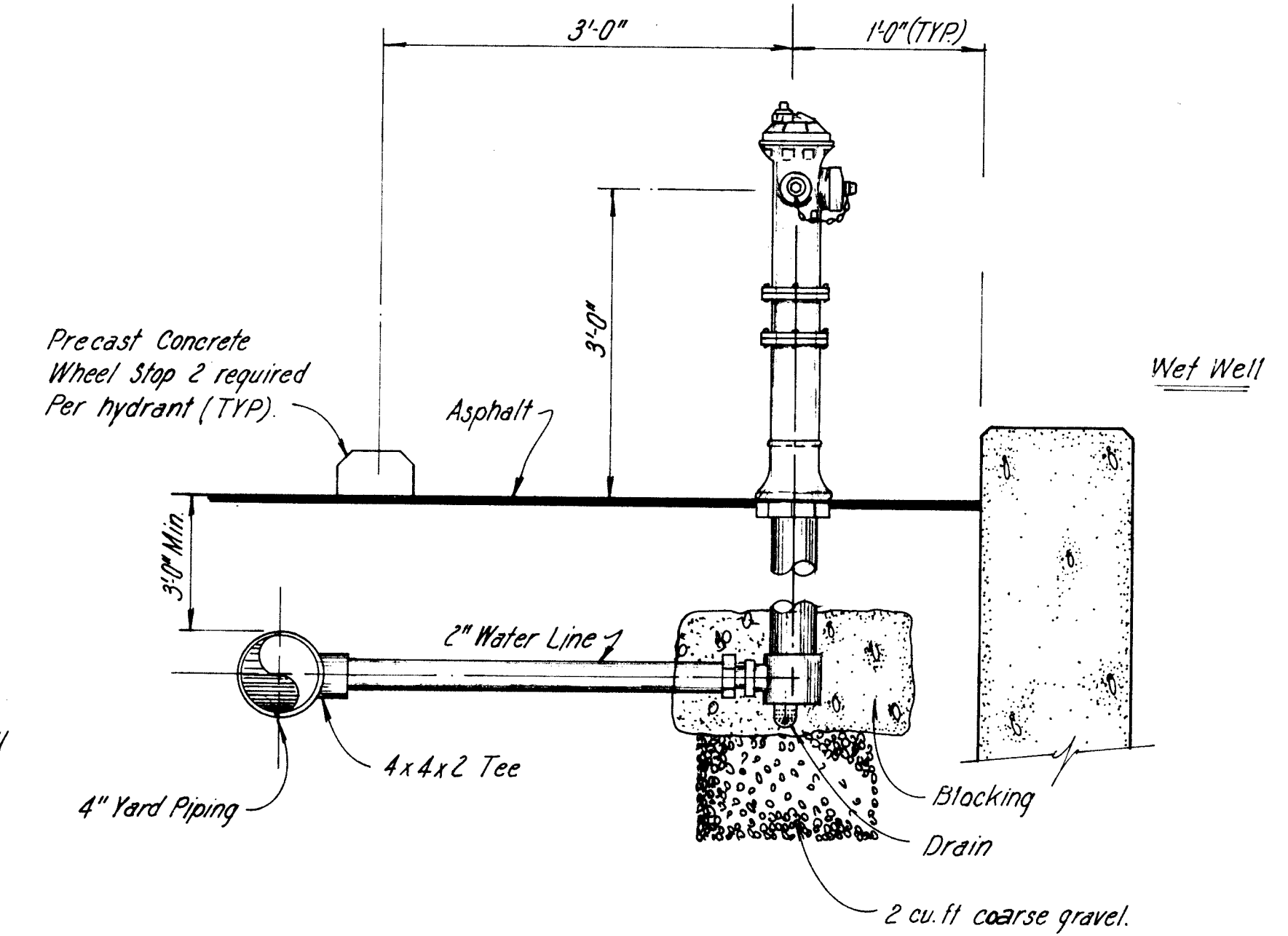
No Scale



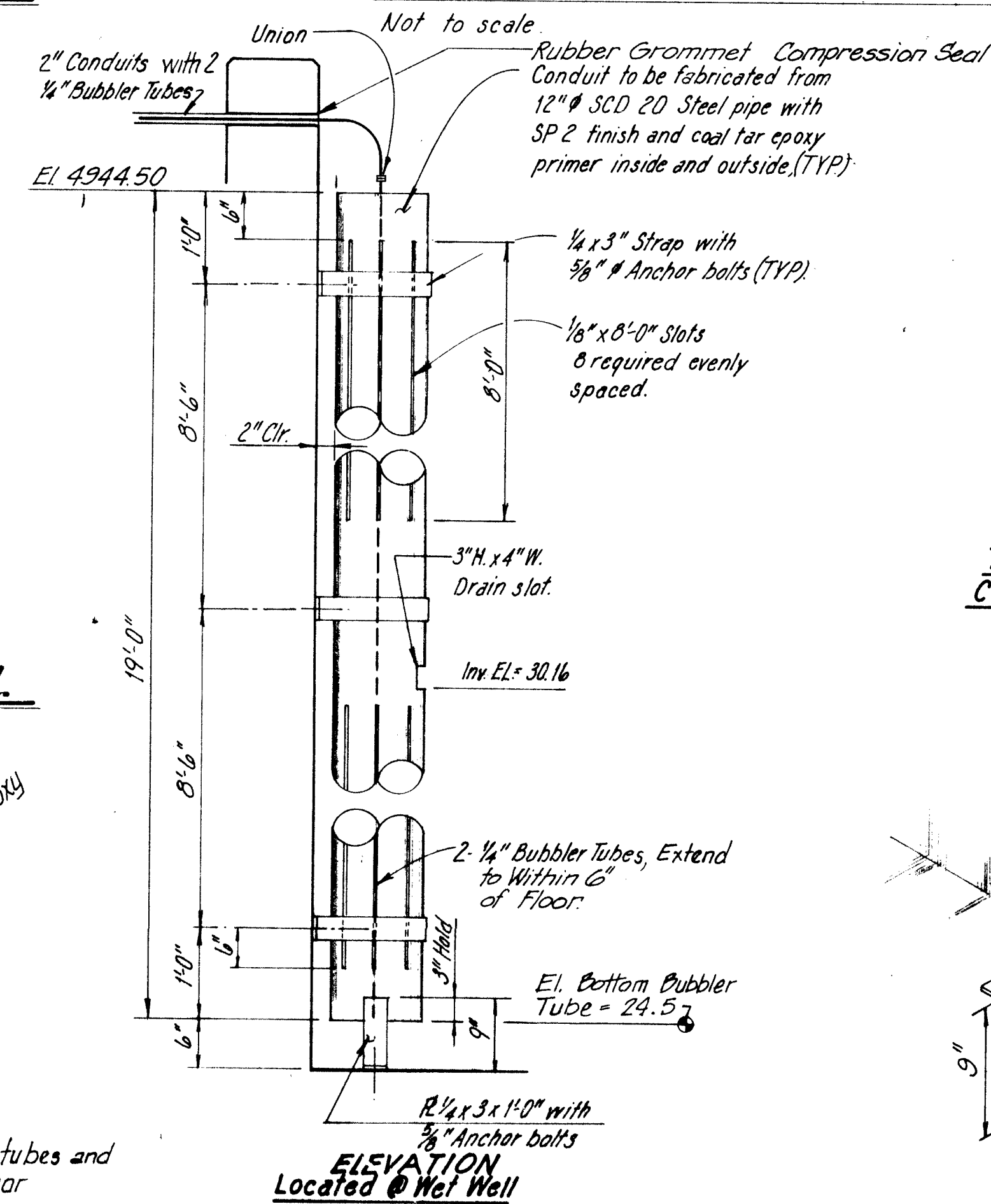
PLAN



SECTION-ELEVATION
STILLING WELL CAP DETAILS



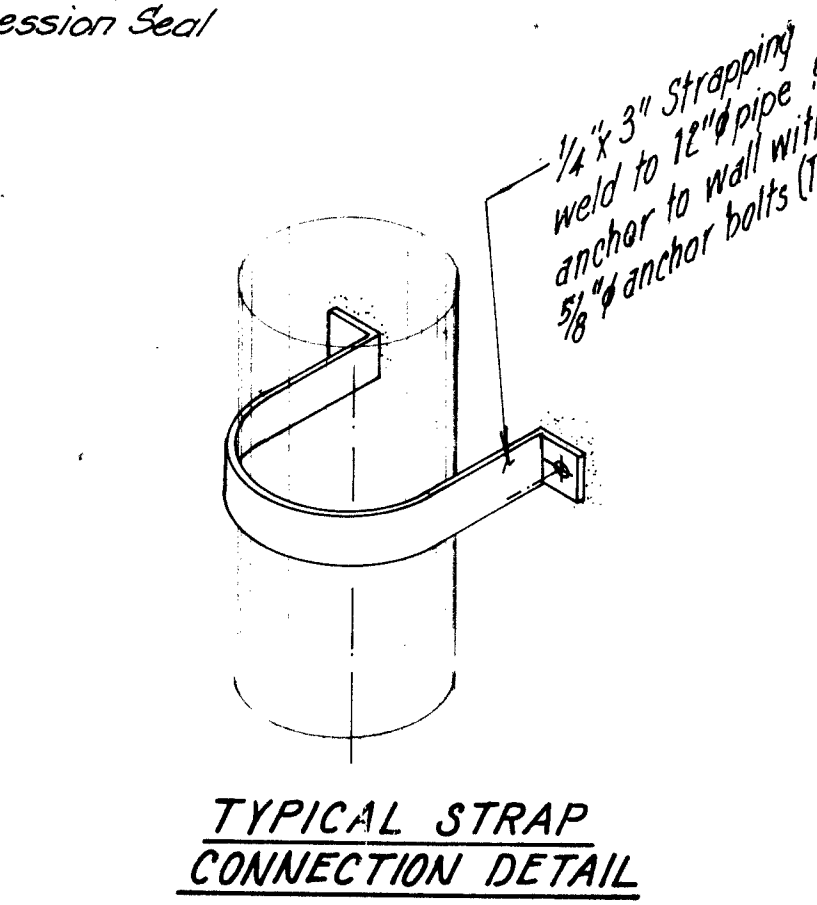
2" FREEZE PROOF POST HYDRANT DETAIL



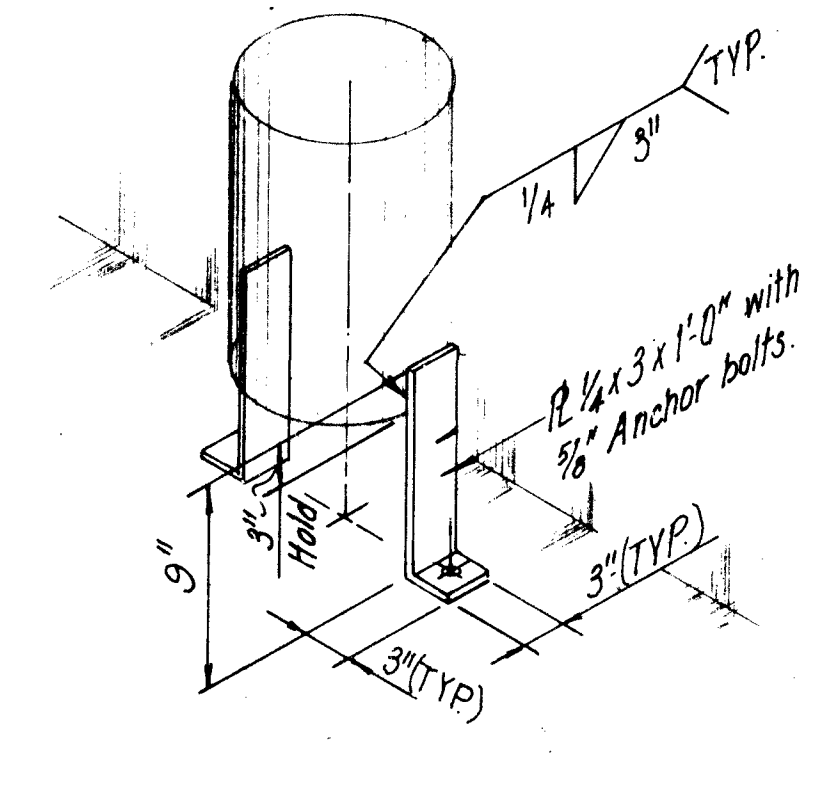
ELEVATION
Located @ Wet Well

12" Ø STILLING WELL DETAILS

Scale $\frac{3}{4}" = 1'-0"$

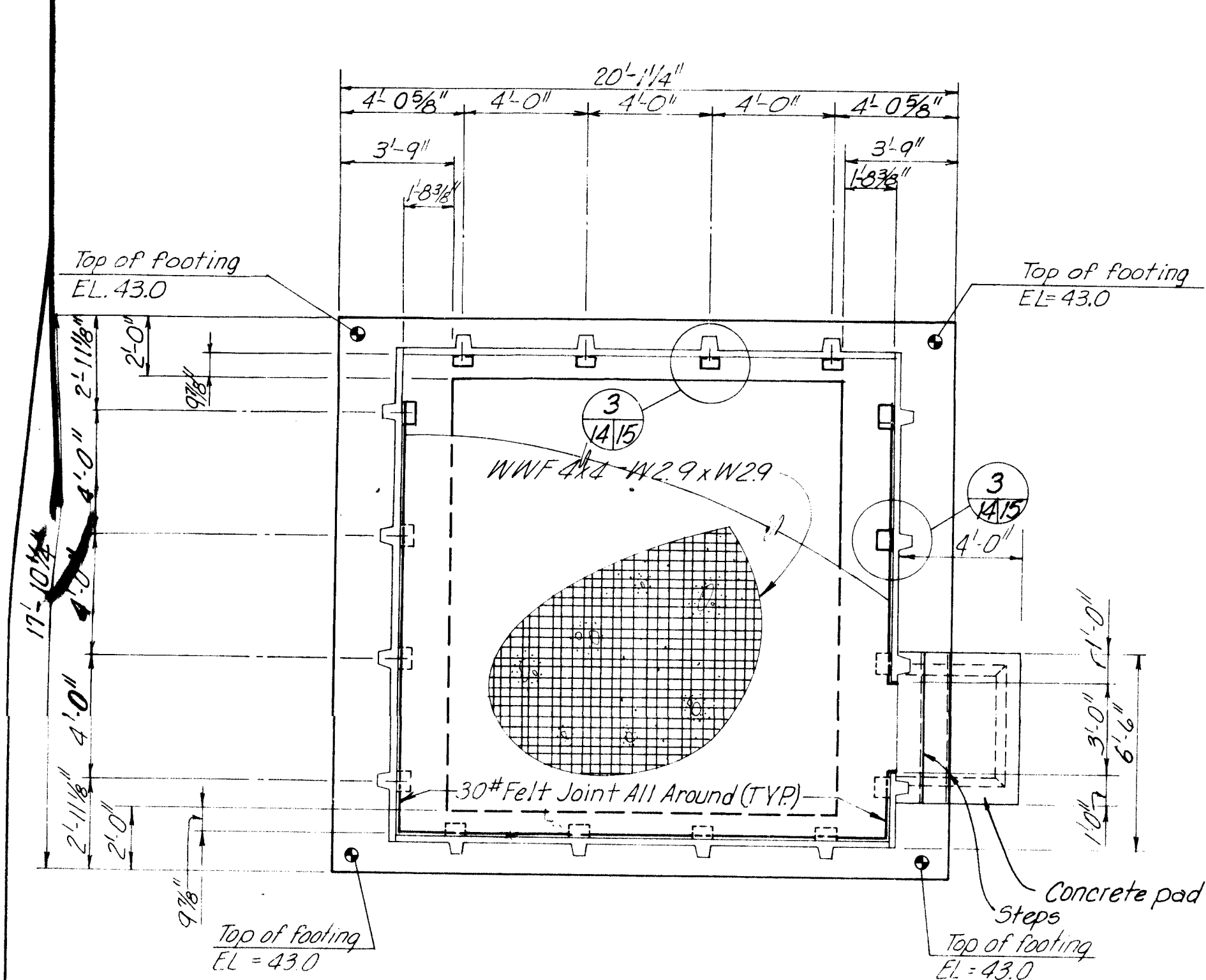


TYPICAL STRAP
CONNECTION DETAIL



BASE SUPPORT DETAIL

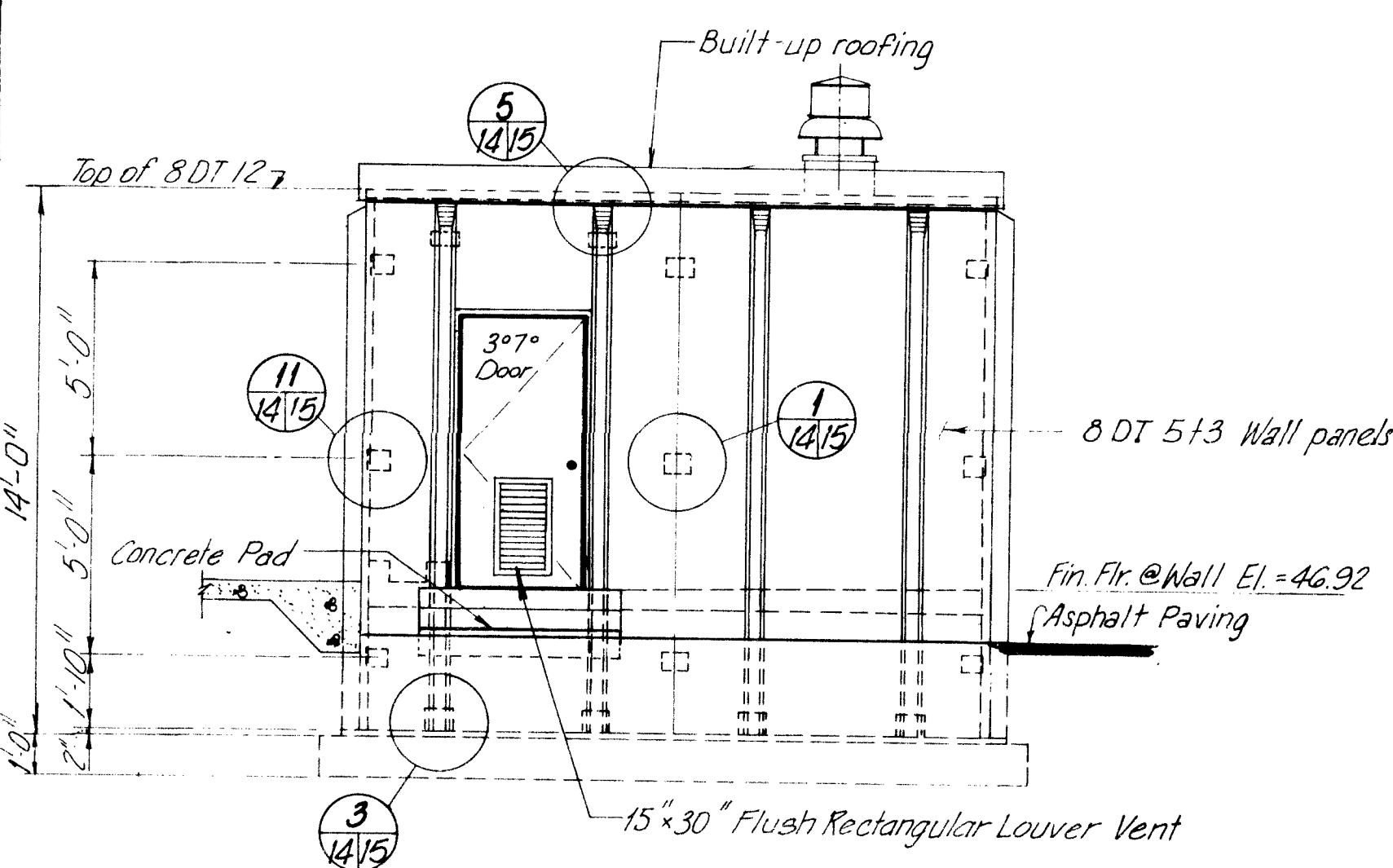
INFORMATION AND COLLECTION SYSTEM									
DESIGN									
DESIGNED BY J.E.		DATE Sept. 1982							
DRAWN BY P.A.P. + J.C.D.		DATE Sept. 1982							
CHECKED BY C.D.		DATE Oct. 1982							
REFERENCES									
MAP NO.		W.O. NO.		FIELD NOTES					
EST. NO.				NO.		BY		DATE	
REVISIONS									
NO.		DATE		REMARKS		BY			
SURVEY INFORMATION									
CONTRACTOR		WORK		DATE					
STAKED BY		ADJUSTED BY		DATE					
ADJUSTED BY		FIELD		DATE					
FIELD		VERIFICATION BY		DATE					
VERIFICATION BY		CORRECTED BY		DATE					
MICRO-FILM INFORMATION									
RECORDED BY		DATE							
NO									
BENCH MARKS									
AS BUILT INFORMATION									
SHEET 13 OF 37									



FOUNDATION PLAN

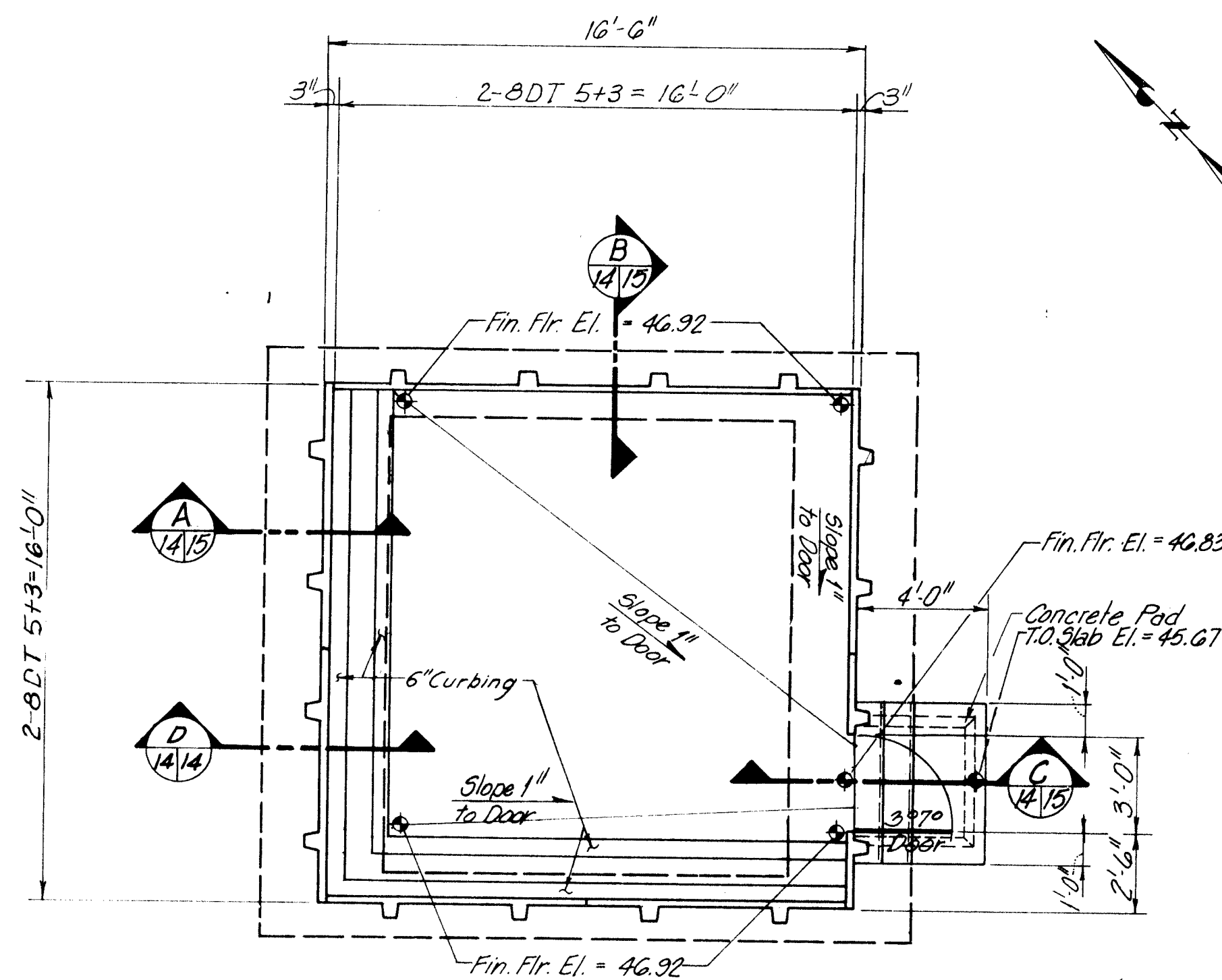
Scale: $\frac{1}{4}'' = 1'-0''$

NOTE: Entire area under Control Building to be excavated to a minimum depth of 6 1/2 feet and backfilled to finish elevation. See Specifications.



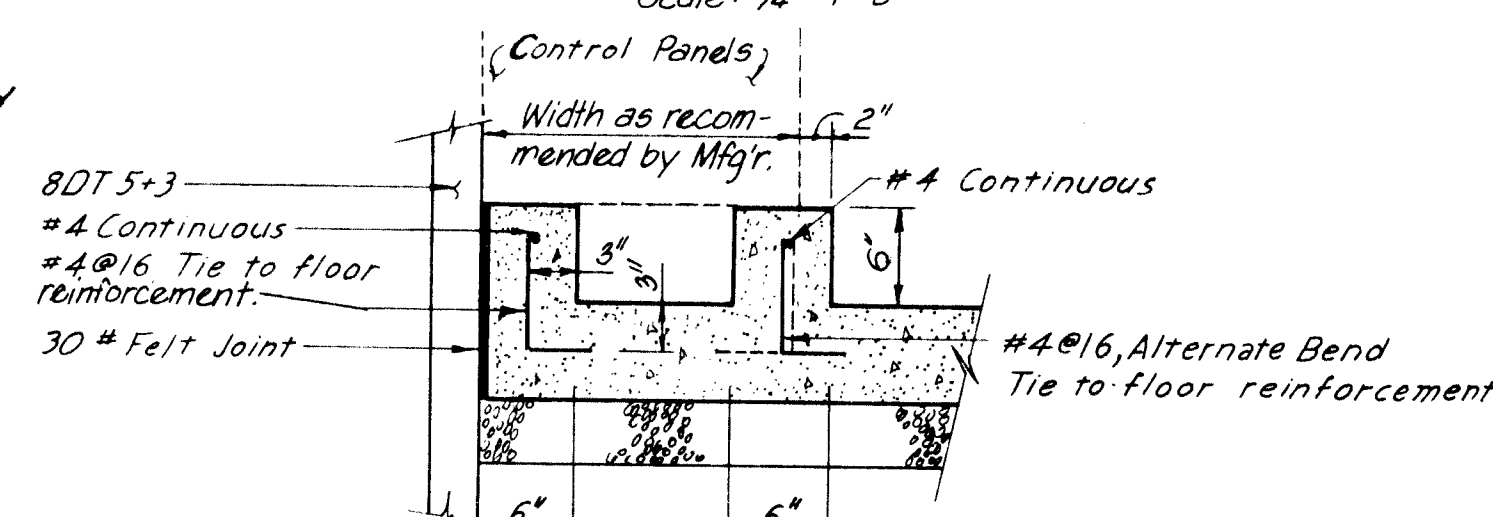
SOUTH EAST ELEVATION

Scale: $\frac{1}{4}'' = 1'-0''$



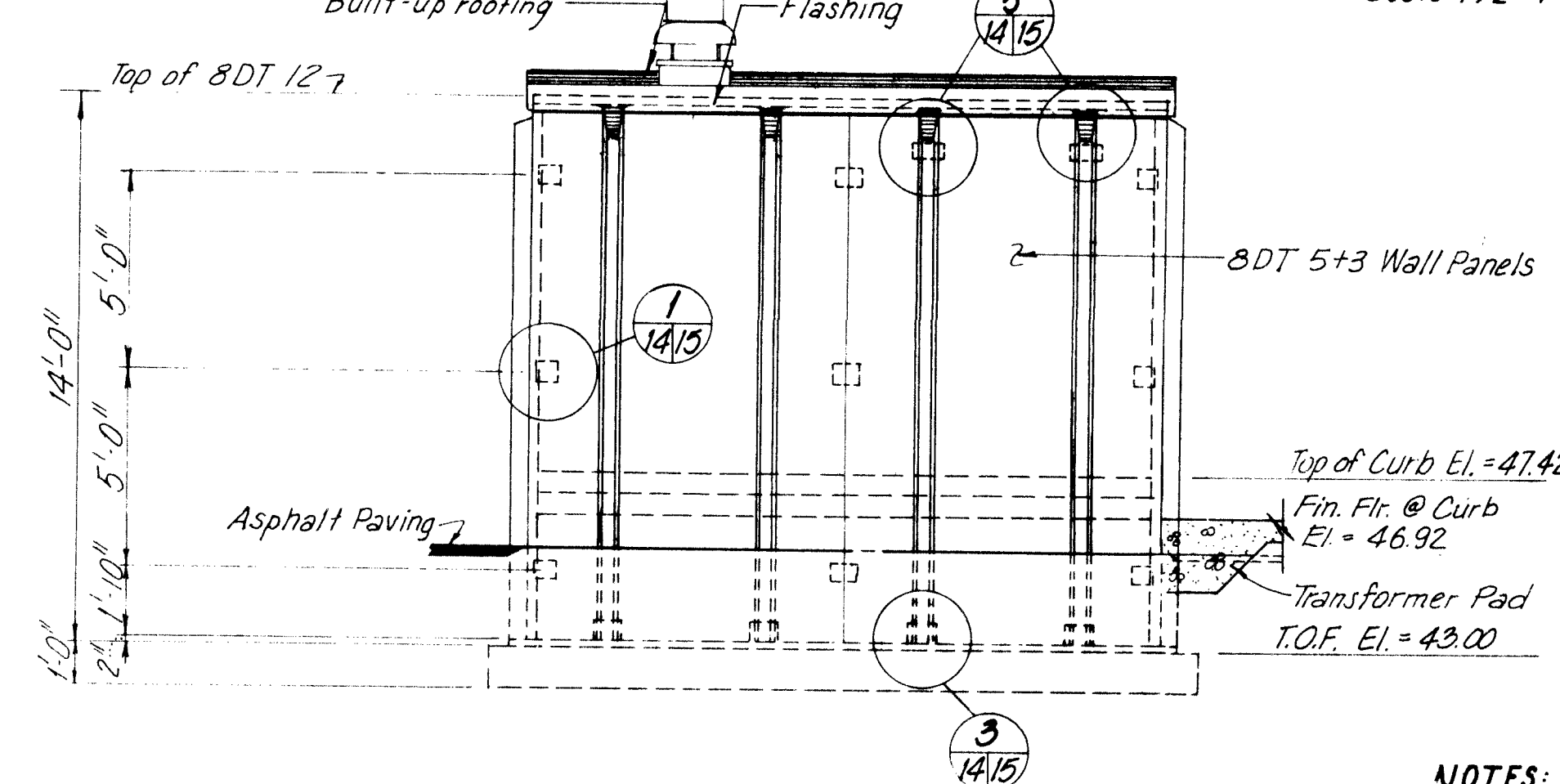
FLOOR PLAN

Scale: $\frac{1}{4}'' = 1'-0''$



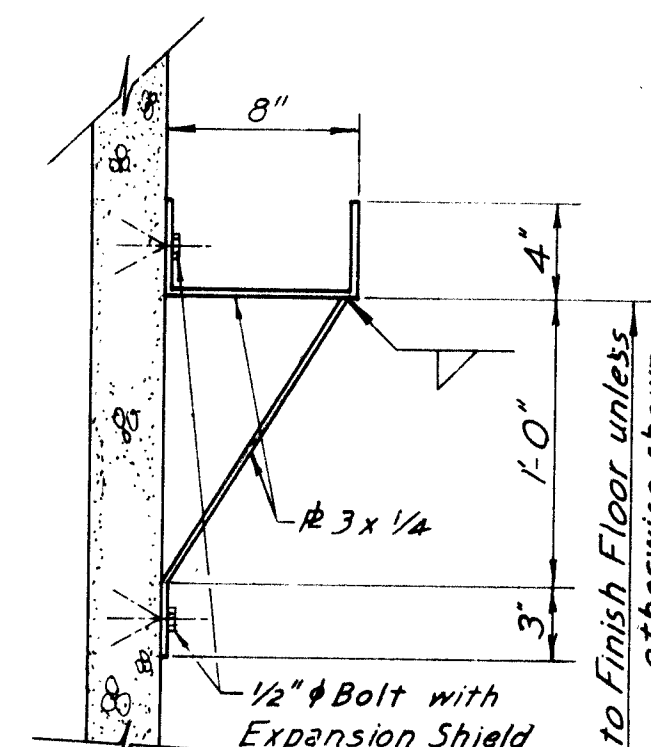
SECTION ~ CONTROL PANEL CURBING

14/14 Scale: 1"=1'-0"
Built-up roofing



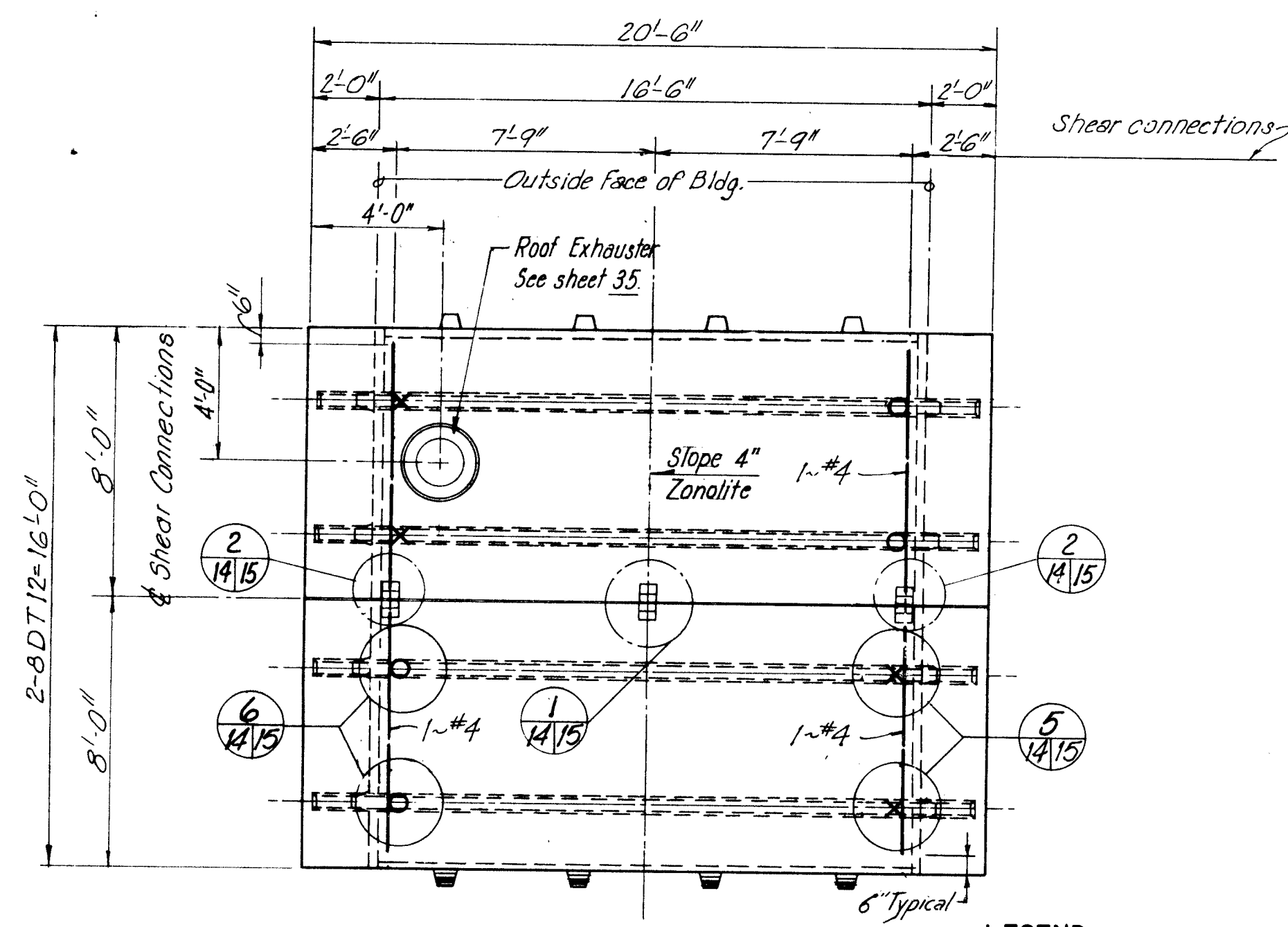
NORTH WEST ELEVATION

Scale : $\frac{1}{4}'' = 1'-0''$



Location to be determined in field
HOSE RACK DETAIL

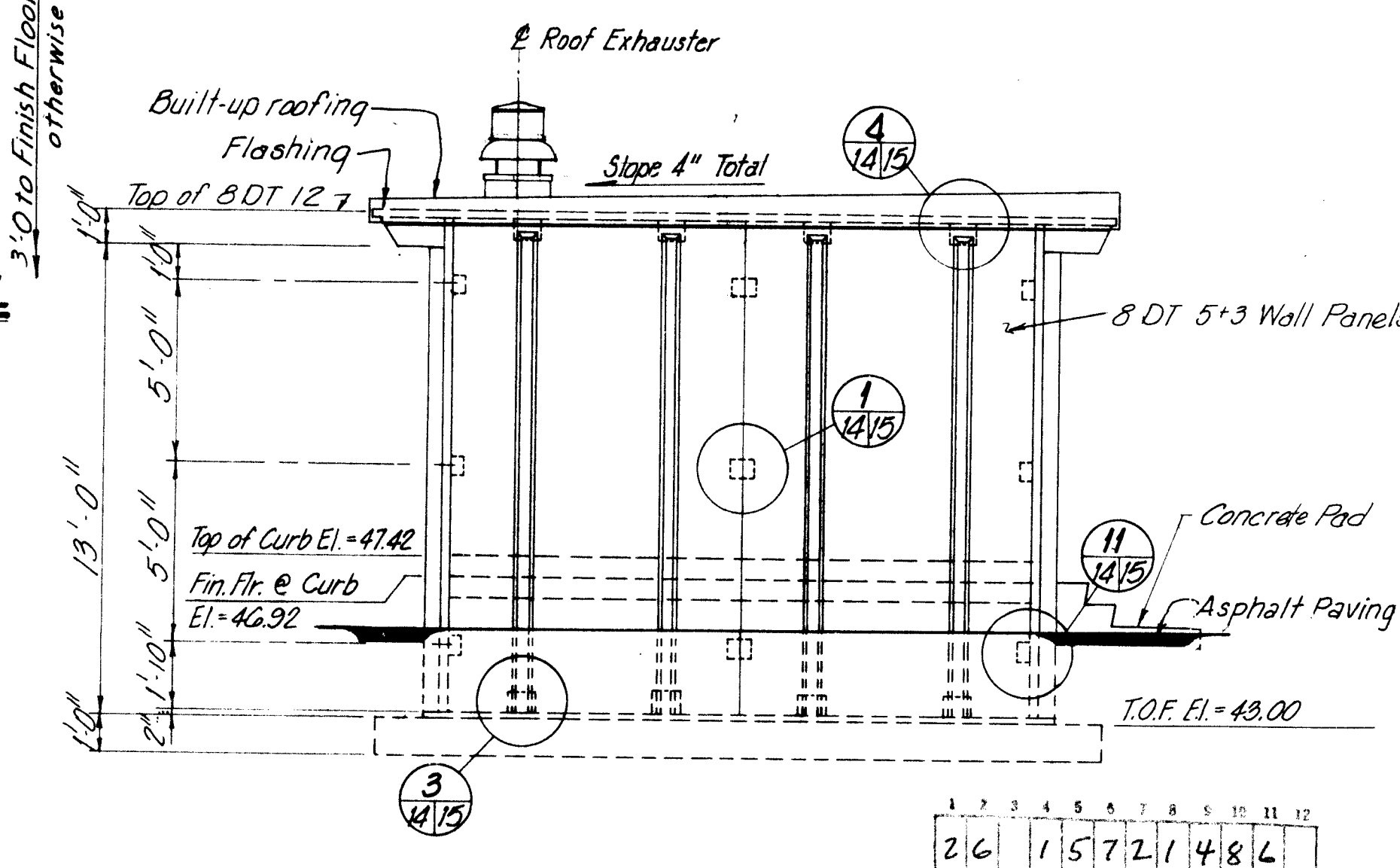
Scale: $1\frac{1}{2}'' = 1'-0''$



ROOF FRAMING PLAN

Scale : $\frac{1}{4}" = 1'-0"$

LEGEND
X = FIXED END
O = SLIDING END



SOUTH WEST AND NORTH EAST ELEVATION

Scale : $\frac{1}{4}'' = 1'-0''$ SW. ELEV. as shown - N.E. ELEV. opposite hand

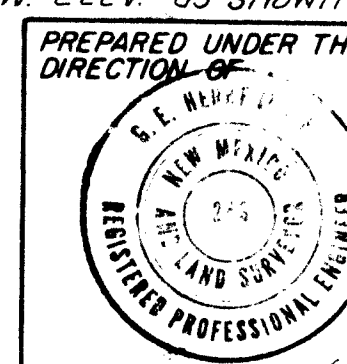
NOTES:

1. Contractor shall install cabinet and shelving units in location dictated by Field Engineer. See specifications for size and type.
2. See sheet 35 for location and layout of transformer enclosure wall.

RECORD DRAWING
AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

PROJECT NO. 1823.13



**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
CONTROL BUILDING

FOUNDATION, FLOOR, ROOF FRAMING and ELEVATIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. 1572

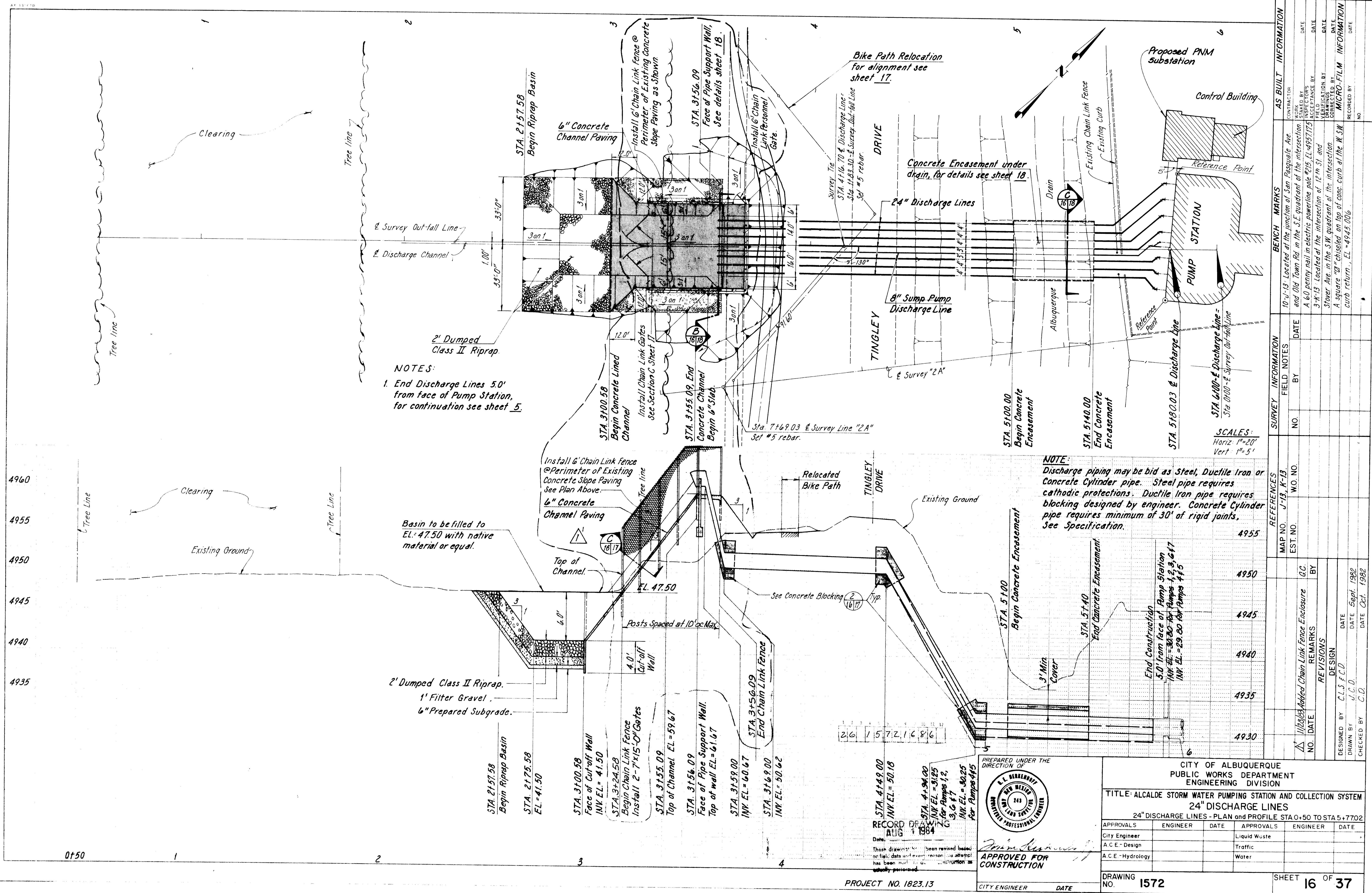
SHEET 14 OF 37

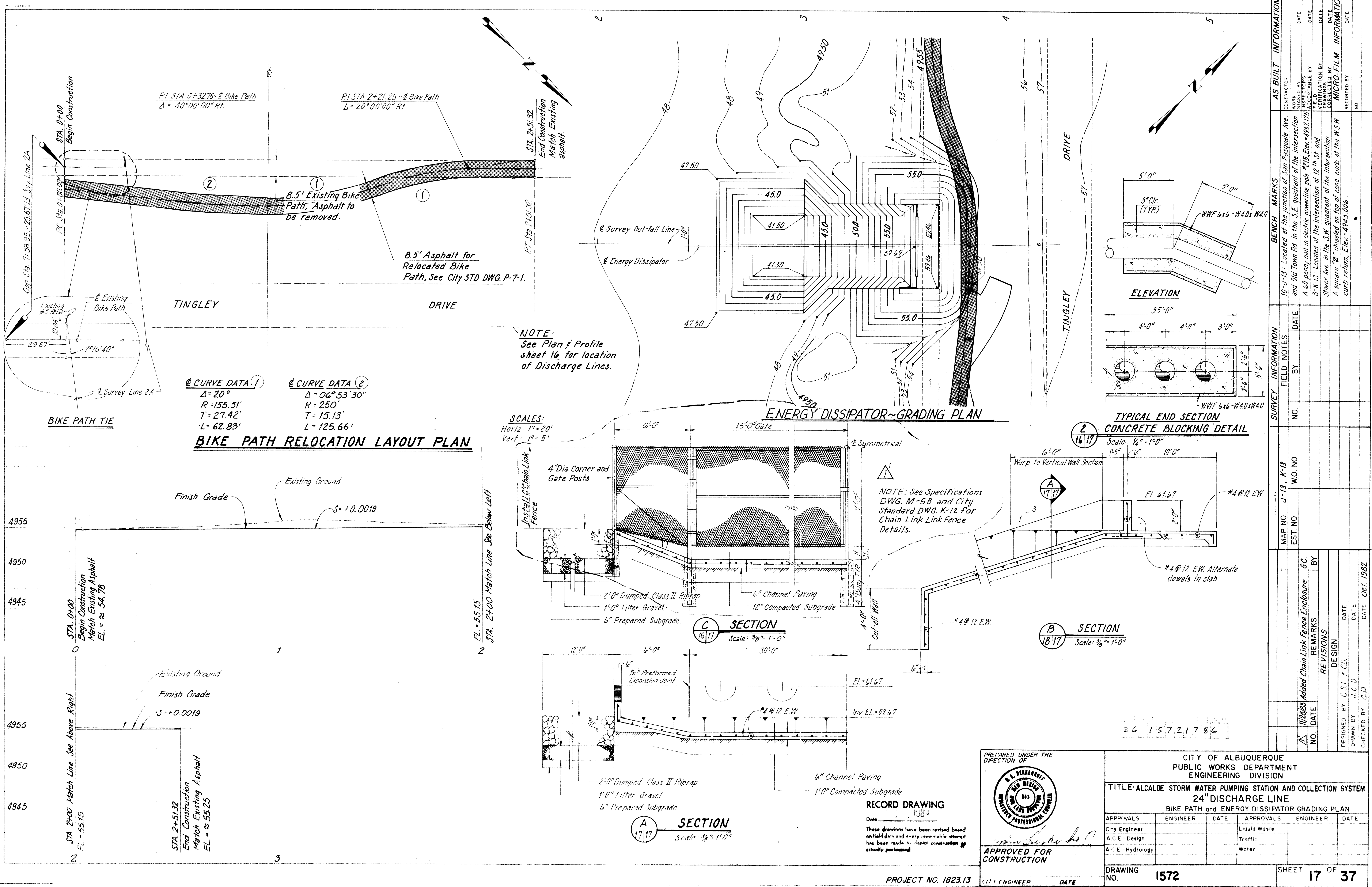
BENCH MARKS	AS BUILT INFORMATION
3-K13: ☒ chiseled on top of conc curb at WSW curb return, int. of 12th St. and Slater Ave. SW	CONTRACTOR
ELEV 4445.006	WORK STARTED BY DATE
6-K13: BMW Brass Cap set in conc. flush with ground, 57' SE of power pole, W.E. corner of int. of Tingley Dr. SW and Alcalá Pl. ELEV 4456.95	INSPECTOR'S FIELD MEASUREMENT BY DATE
TBM: Nail set on top of easternmost guard post, N side of asphalt drive by zoo fence	VERIFICATION BY DATE
	CORRECTED BY DATE
	RECORDED BY DATE
	NO

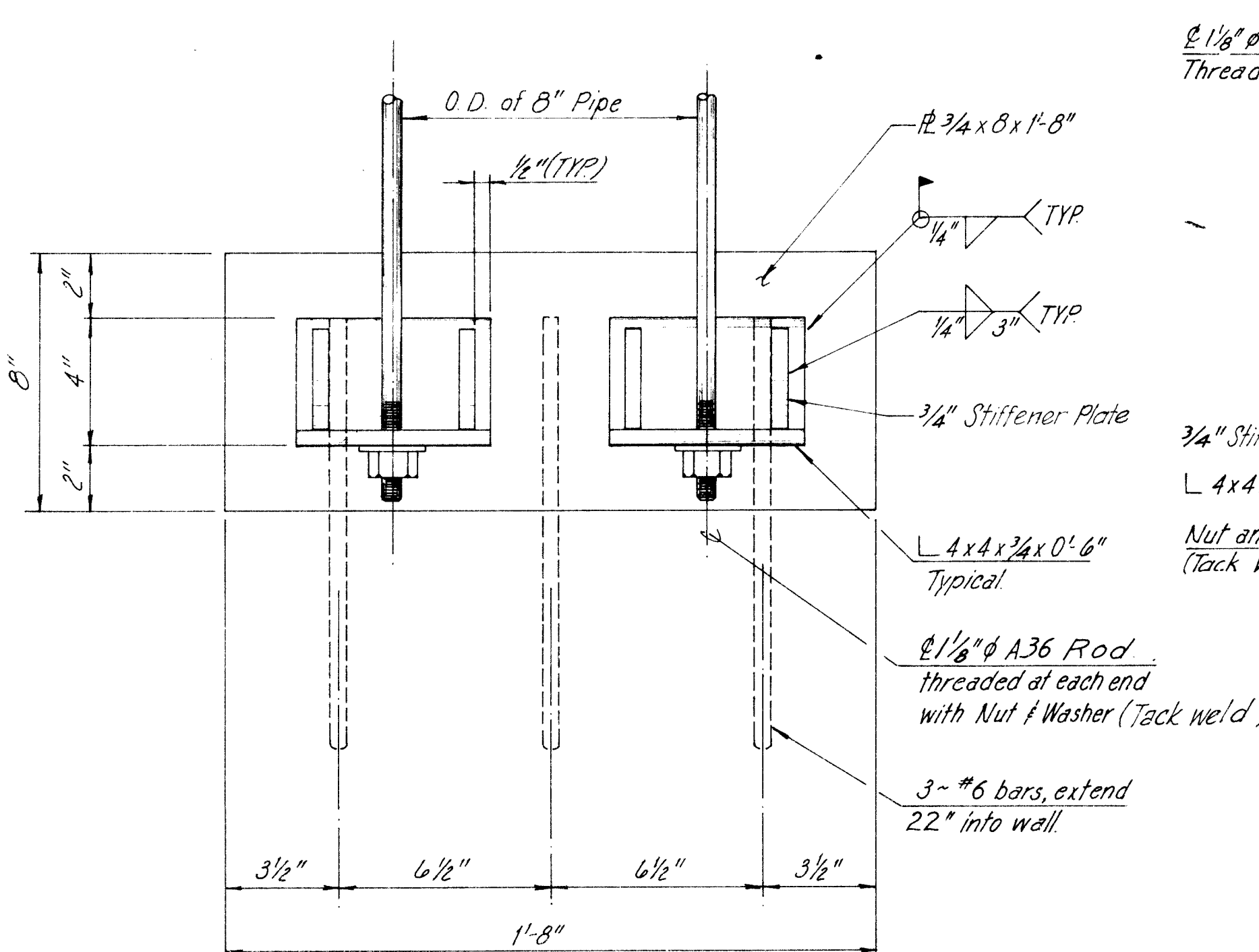
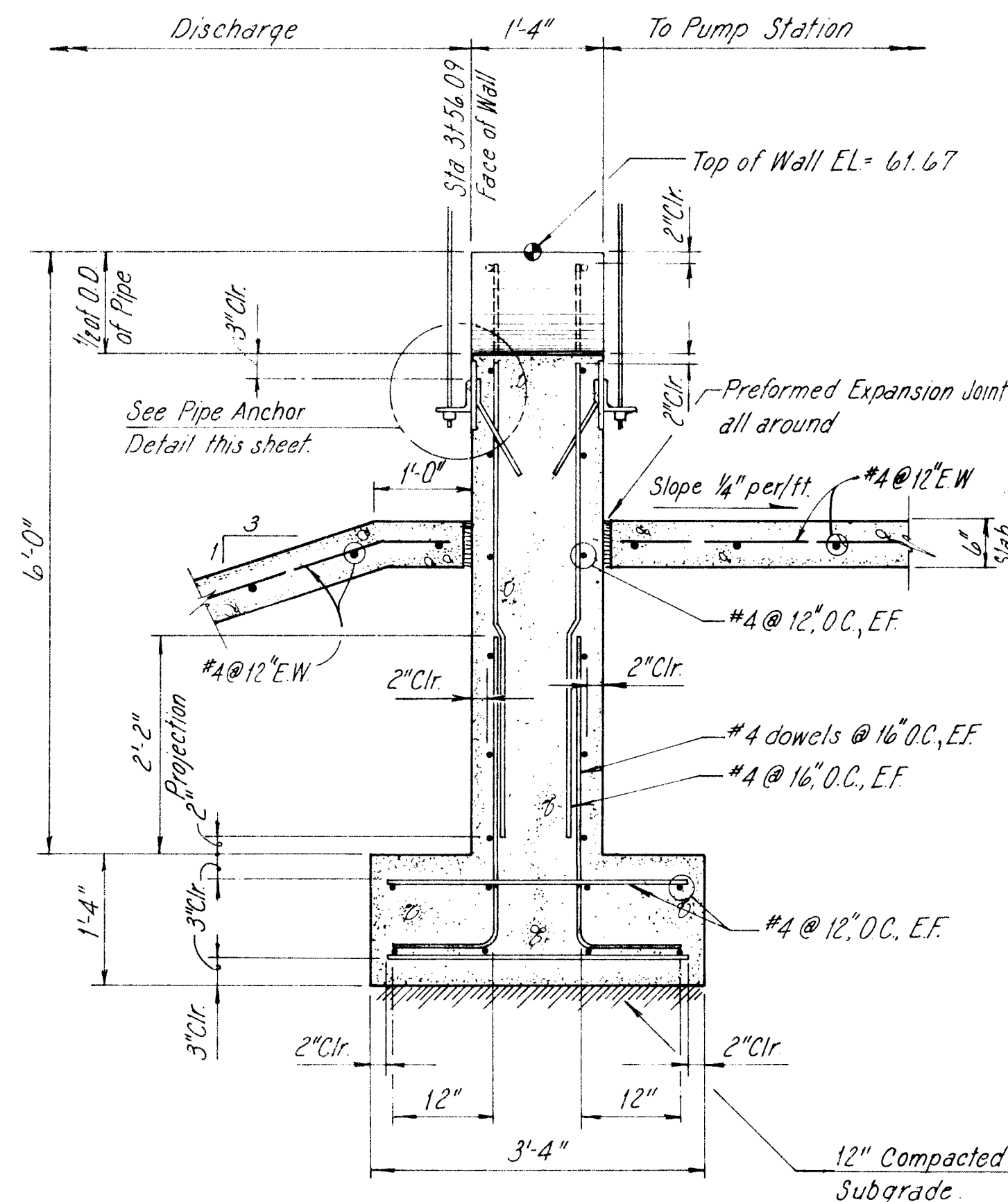
[illegible][illegible]

DESIGN			
DESIGNED BY	DATE	REMARKS	BY
KO-L	Sept 1982		
DRAWN BY	A.N.		
CHECKED BY	C.O.		
	DATE		
	Oct 1982		

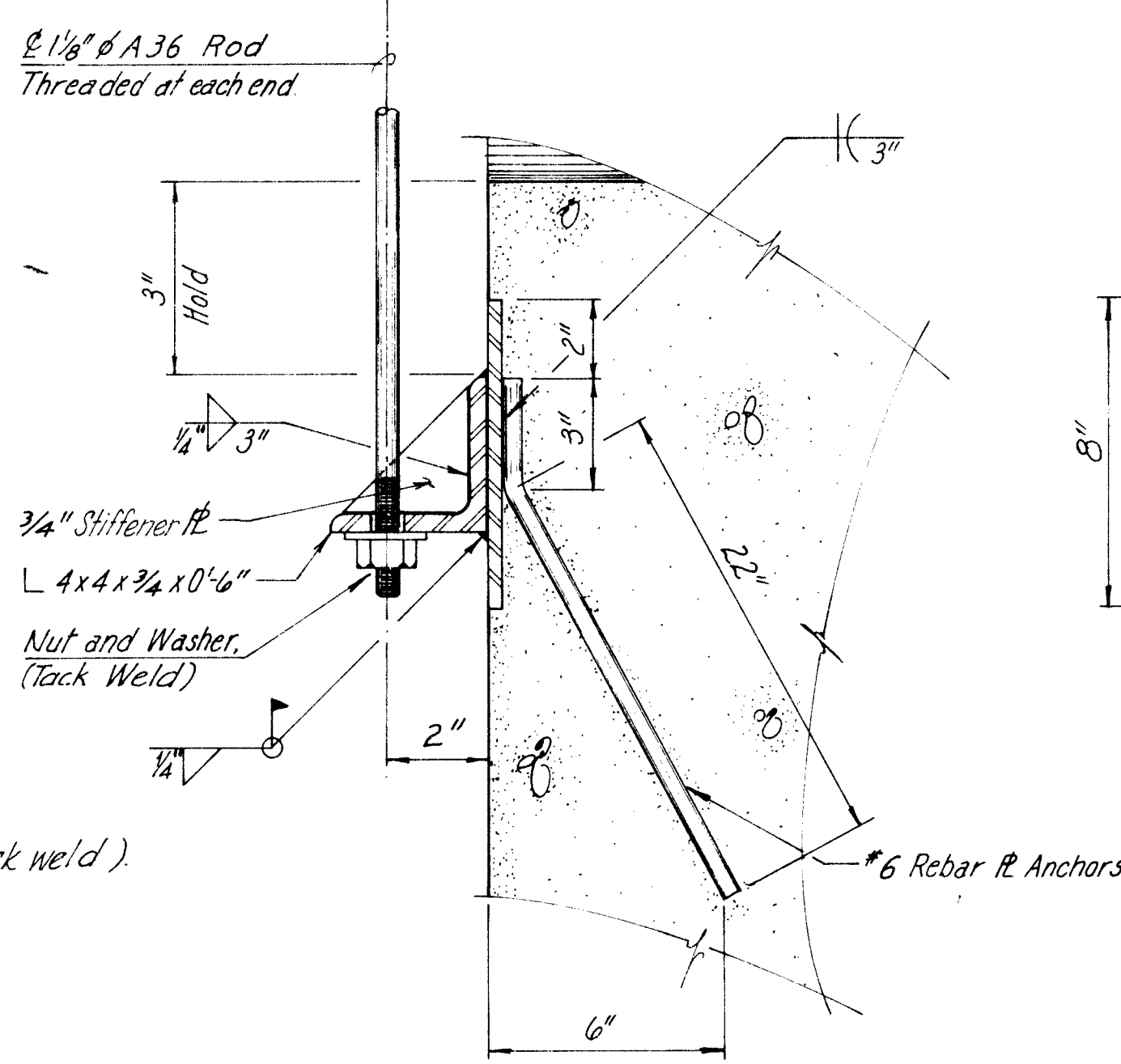




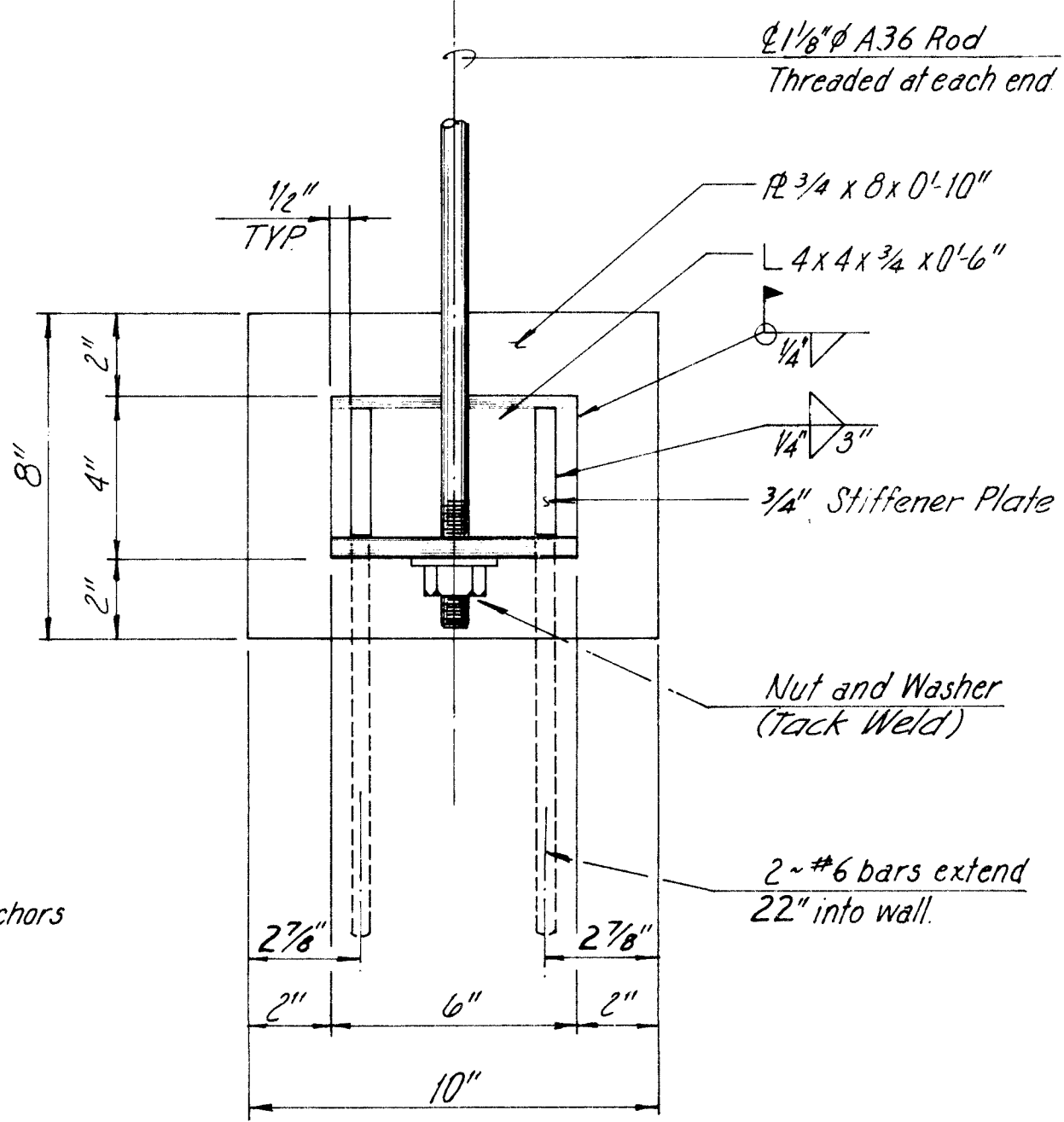




BRACKET for 8" PIPE



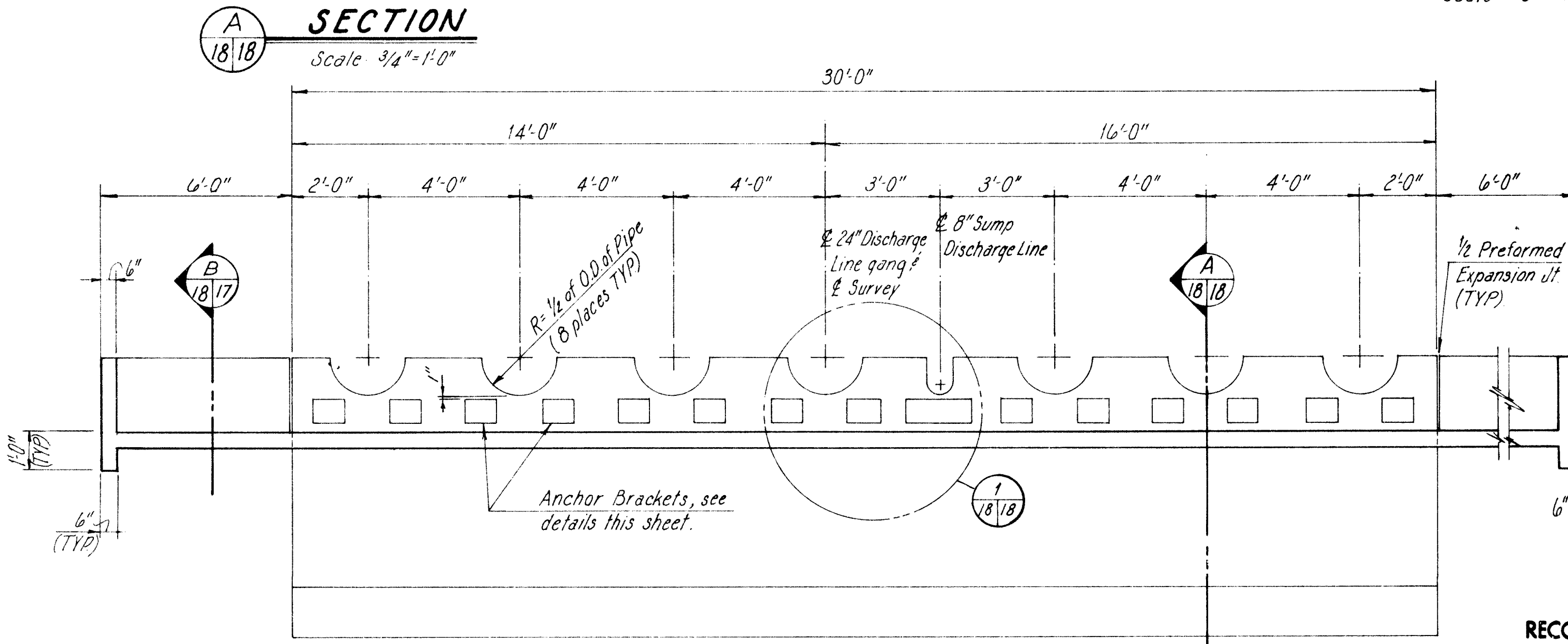
TYPICAL SECTION



TYPICAL BRACKET for 24" PIPE

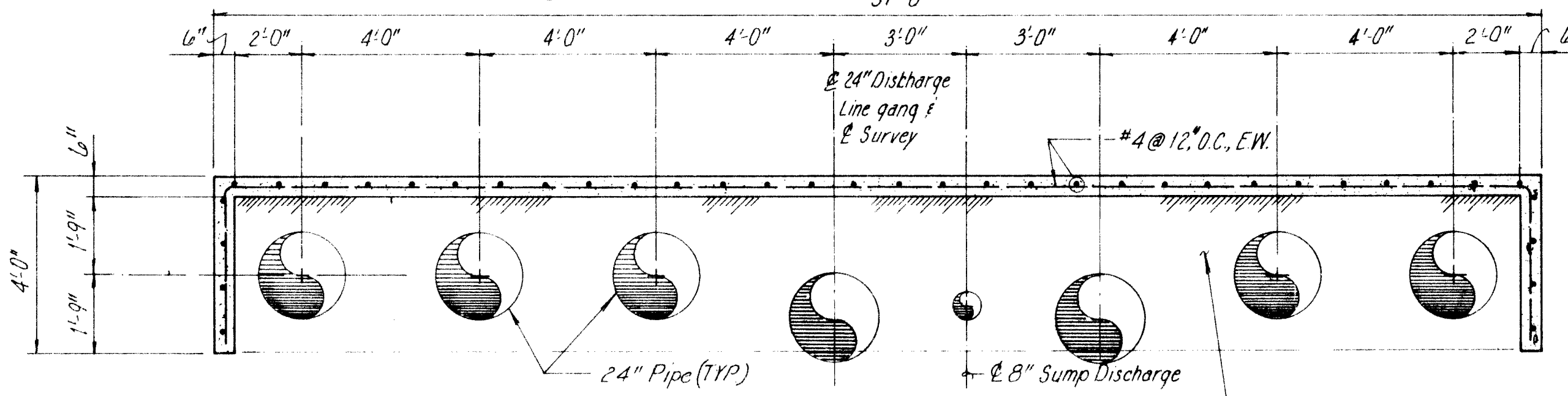
PIPE ANCHOR BRACKET DETAILS

Scale: 3" = 1'-0"



ELEVATION ~ PIPE SUPPORT WALL

Scale: 3/8" = 1'-0"



CONCRETE ENCASEMENT DETAIL

Scale: 3/8" = 1'-0"

RECORD DRAWING

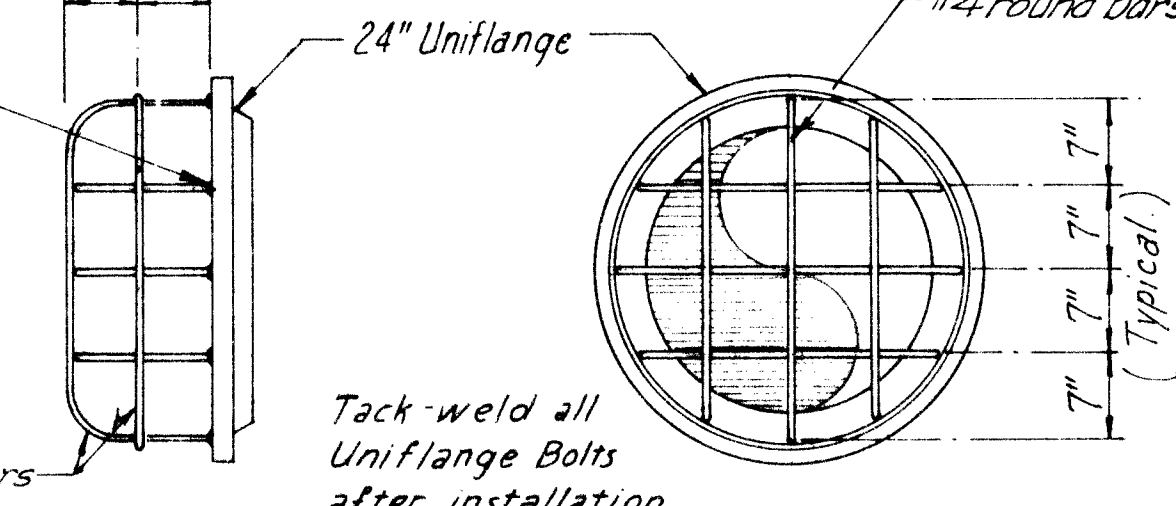
Date: AUG 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

- NOTES:
- Spot weld all intersecting bars.
 - SP2 finish with coal tar epoxy prime.

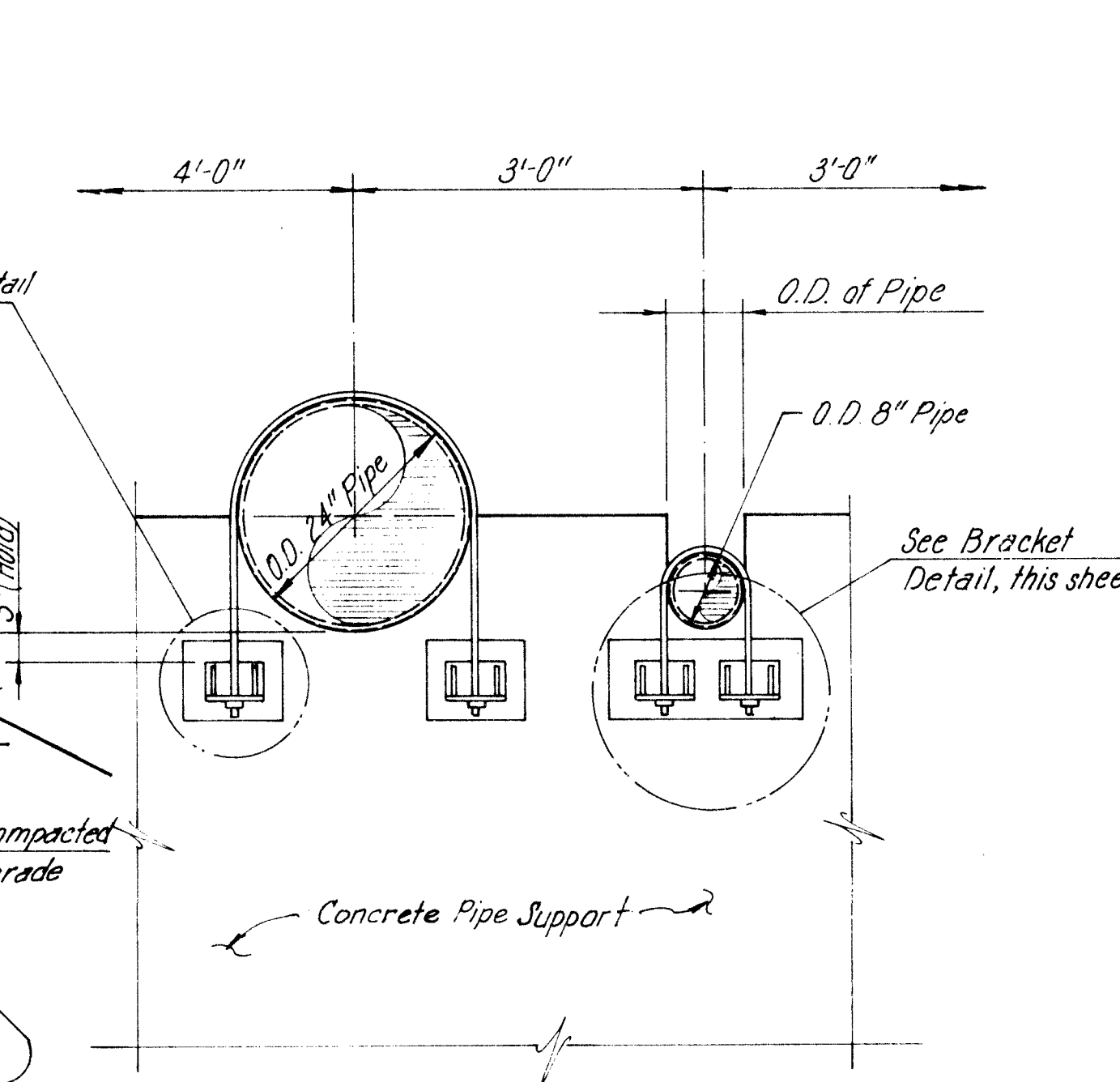
SECTION - ELEVATION

Scale: 3/8" = 1'-0"



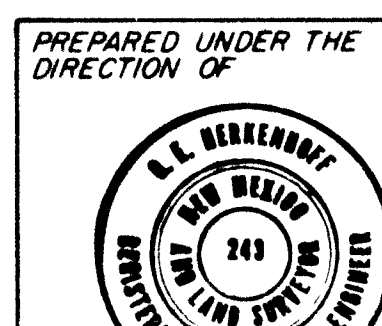
BASKET DETAILS

Scale: 3/4" = 1'-0"



TYPICAL ELEVATION of PIPE SUPPORT

Scale: 3/4" = 1'-0"



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

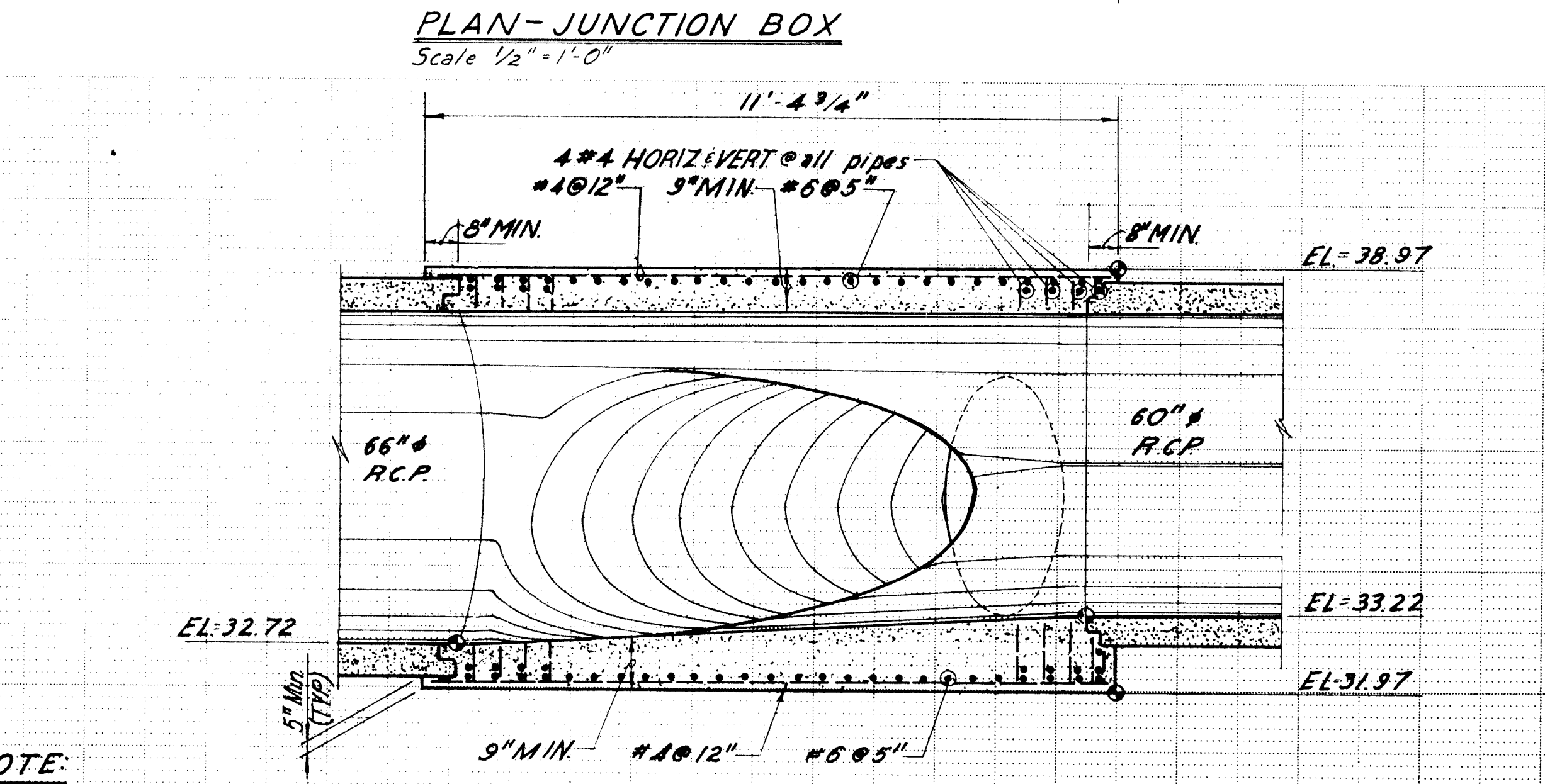
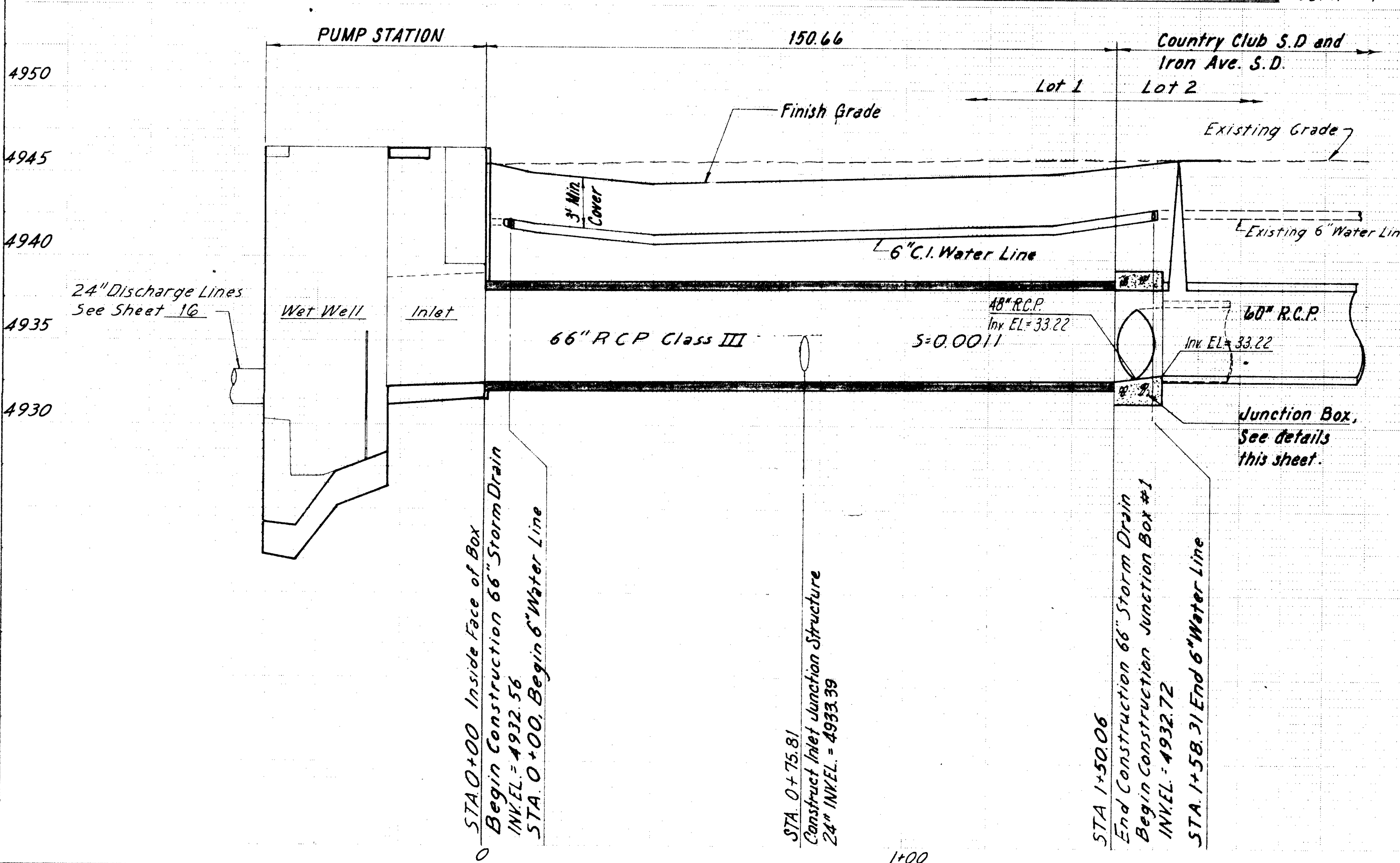
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM 24" DISCHARGE LINE PIPE SUPPORT AND CONCRETE ENCASEMENT DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 1572

SHEET 18 OF 37

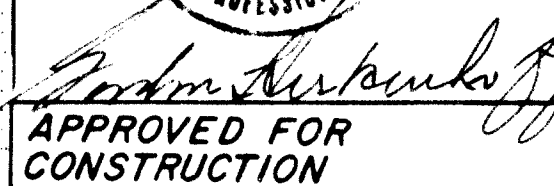
PROJECT NO 1823.13

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS	
CONTRACTOR	DATE	STAKE	DATE	NO.	BY	MAP NO.	W.O. NO.	NO.	DATE
INSPECTOR'S	DATE	STAKE	DATE						
FILED	DATE	STAKE	DATE						
VERIFICATION BY	DATE	STAKE	DATE						
CORRECTED BY	DATE	STAKE	DATE						
MICRO-FILM INFORMATION									
RECORDED BY	DATE								
NO.									



1. Reinforcing steel shall be Grade 60 located 3" from the face of concrete.
2. Concrete shall be 4,000 P.S.I. @ 28 days.
3. The floor of the box shall be steel troweled to spring line. Round all inside edges to a 3" radius.
4. The box shall be poured in one continuous operation, except that the Contractor shall have the option of placing a construction joint with a longitudinal key at the springline.

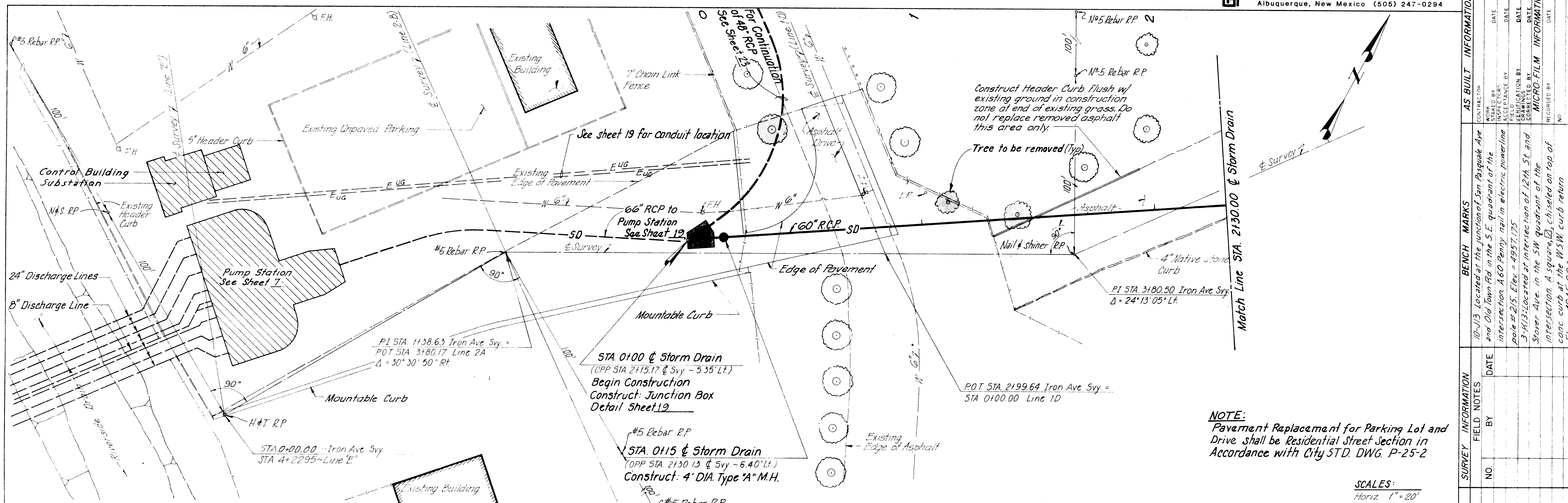
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
PLAN and PROFILE - PUMP STATION STORM DRAIN 8" WL
STA. 0+00 TO STA. 1+50.06 and JUNCTION BOX DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO.	1572	SHEET	19	OF	37
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NOTE:
Pavement Replacement for Parking Lot and Drive shall be Residential Street Section in Accordance with City STD. DWG. P-25-2

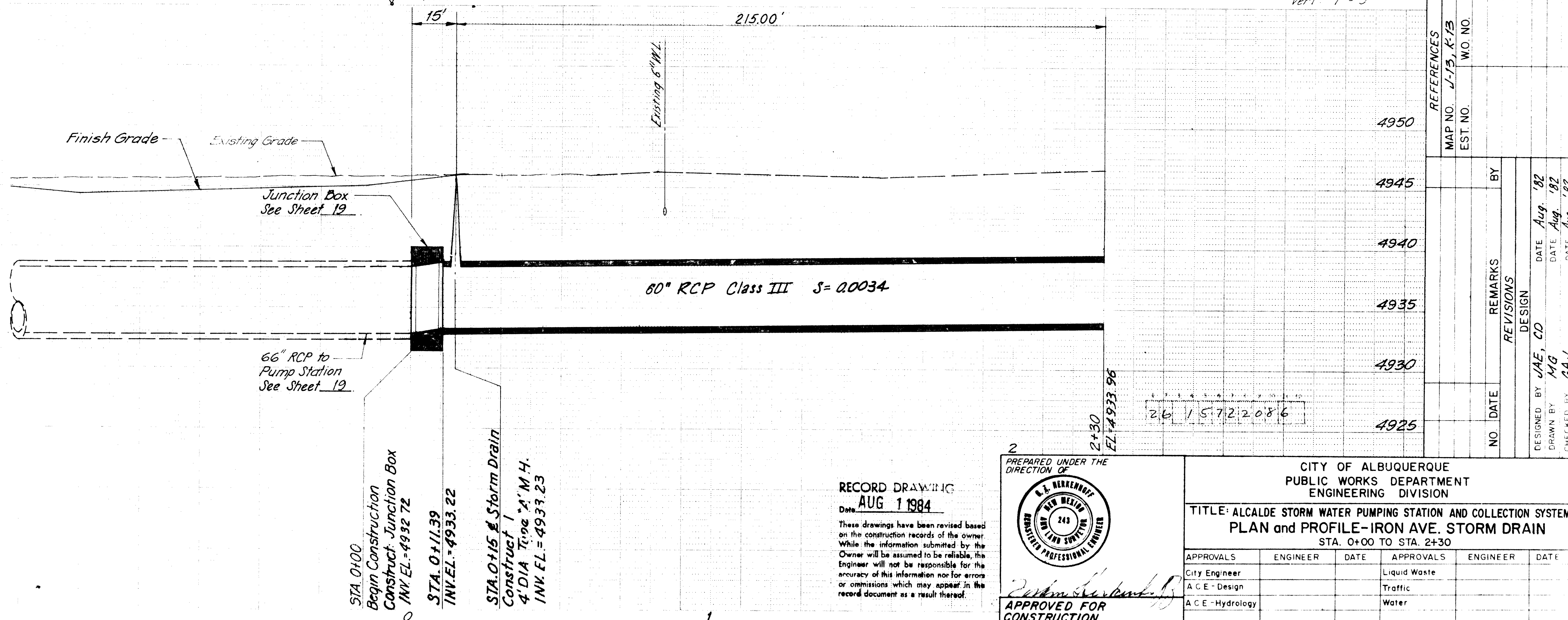
SCALES:
Horiz. 1" = 20'
Vert. 1" = 5'

4950

GENERAL NOTES FOR STORM DRAIN LINES

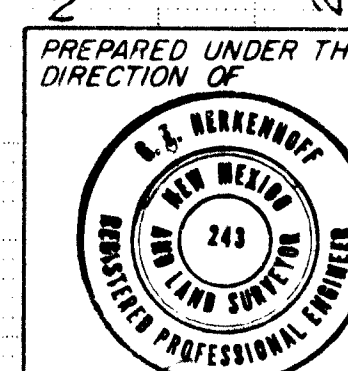
- Contractor shall stockpile all curb and gutter and sidewalk sections that are removed to be picked up by City. Coordinate this with Field Engineer.
- Contractor shall match geometry of all replacement curb and gutter, sidewalk, and driveways to existing. Otherwise New construction items shall be in accordance with City STD DWGs P-8-2, Curb and Gutter; P-11-1, Driveways; P-13-1, Sidewalk Details, or as directed by Field Engineer.
- Trees shown to be removed are estimated to be within the trench prism. Contractor shall preserve as many trees as possible.
- Locations of Utility lines shown are unverified. Contractor shall contact line locating Service, 765-1234, two working days prior to any excavation. The utilities located on these plans have been located from surveys, record maps and record drawings from the utility companies and City of Albuquerque. These utilities may vary from the conditions shown and may not represent all of the utilities encountered.
- All excess excavation shall be spread 6" to 24" thick in Kit Carson Park as directed by Parks and Recreation Department. This material shall include excavated soil only.

4925



RECORD DRAWING
Date **AUG 1 1984**

These drawings have been revised based on the construction records of the owner. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.



APPROVED FOR CONSTRUCTION

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
PLAN and PROFILE-IRON AVE. STORM DRAIN
STA. 0+00 TO STA. 2+30

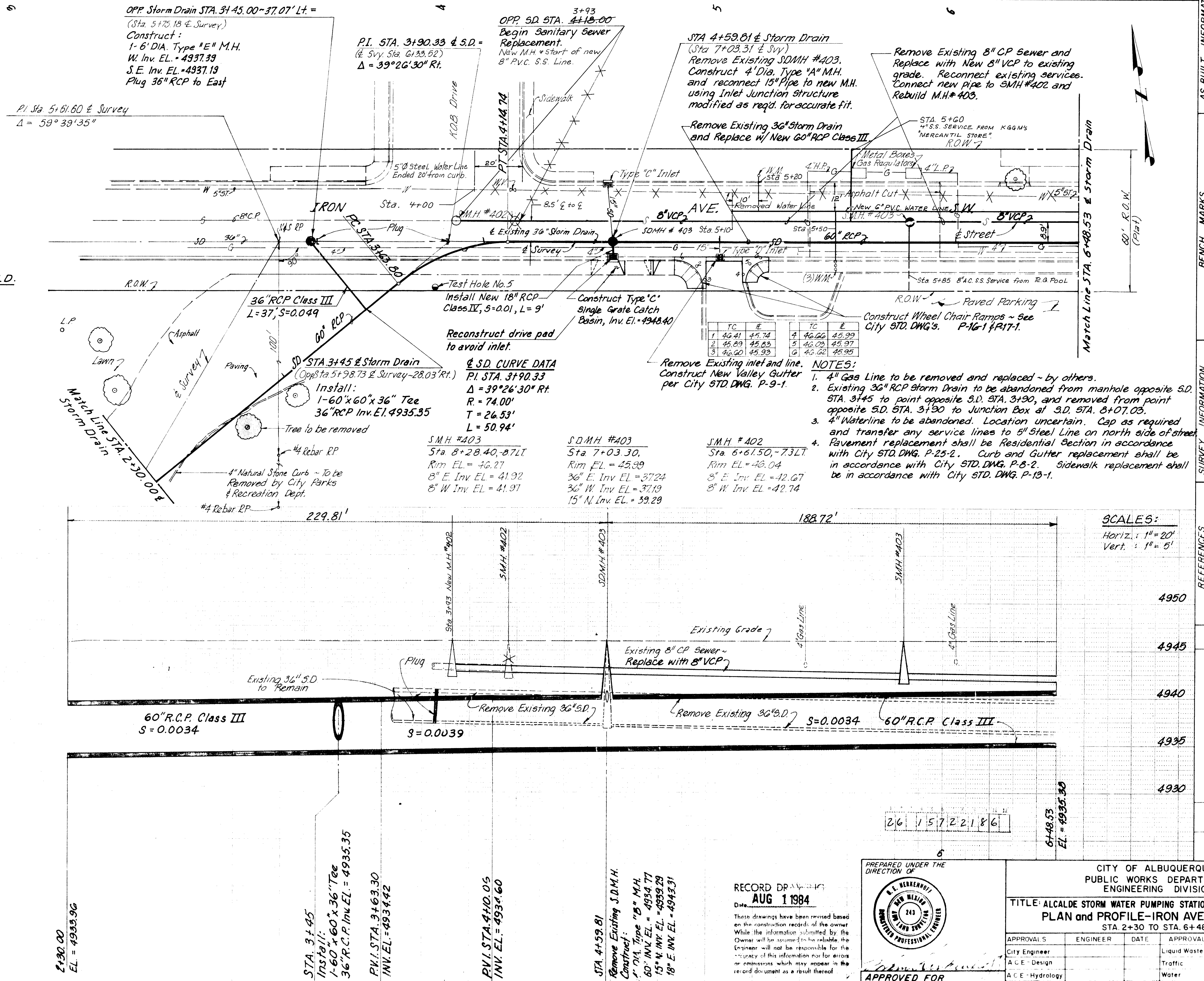
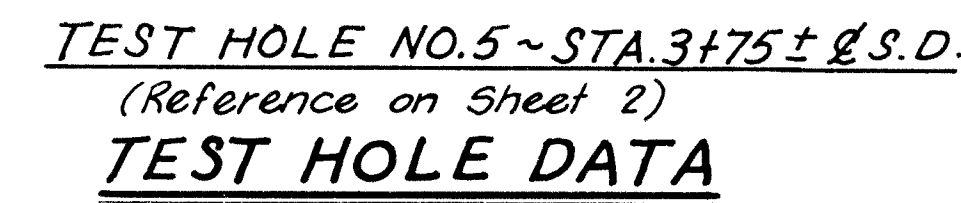
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 1572
SHEET 20 OF 31

PROJECT NO. 1823.13

CITY ENGINEER **DATE**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	BY	MAP NO.	W.O. NO.	NO.	DATE
10-113, Located at the junction of San Pasquale Ave and Old Town Rd in the S.E. quadrant of the intersection A60 Penny rail in electric powerline pole #215. Elev = 4957.175									
3-113, Located at intersection of 12th St and Stoner Ave. in the SW quadrant of the intersection. A square, chiseled on top of conc. curb at the WSW curb return Elev = 4945.006									



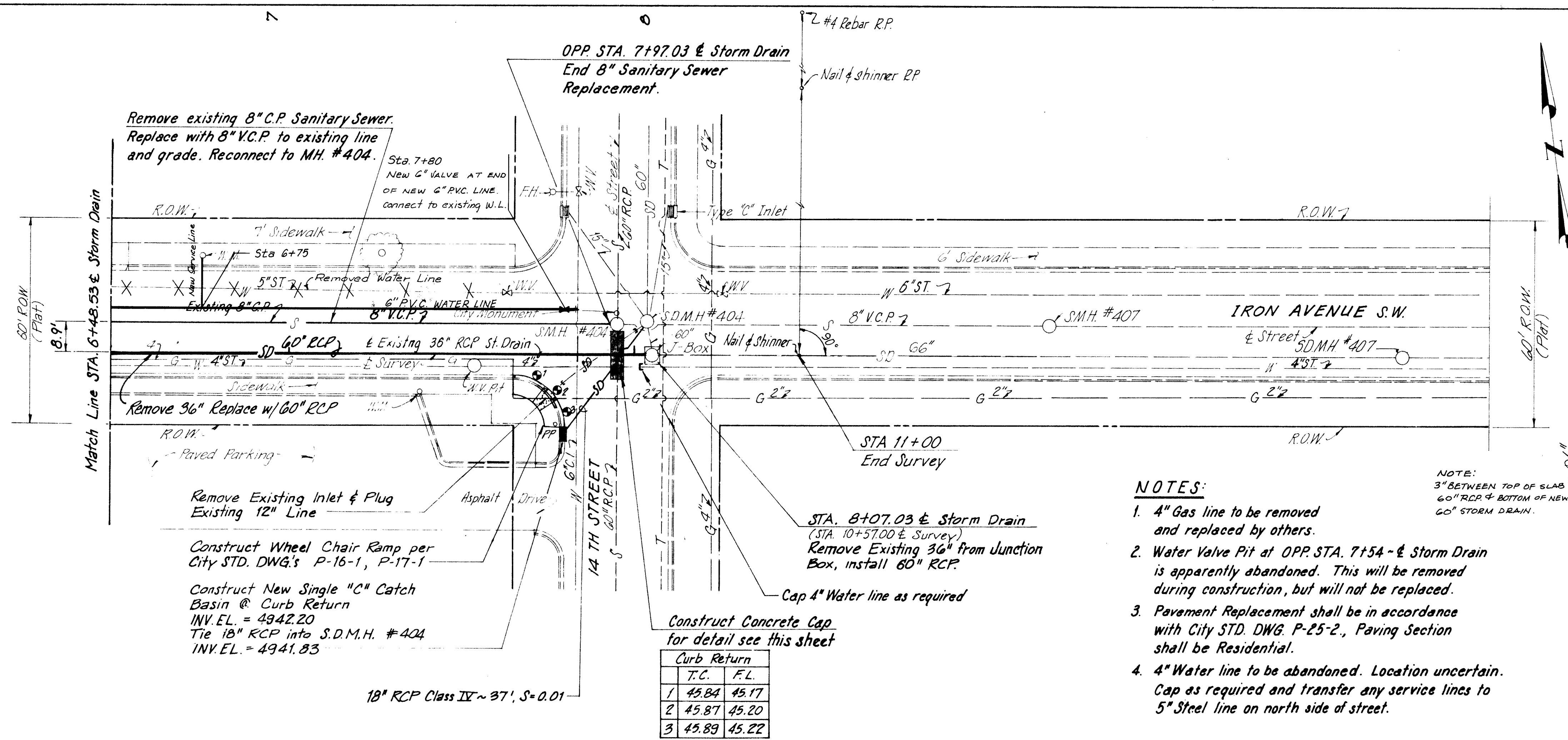
PREPARED UNDER THE
DIRECTION OF



APPROVED FOR
CONSTRUCTION

CITY ENGINEER

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM PLAN and PROFILE-IRON AVE. STORM DRAIN					
STA 2+30 TO STA. 6+48.53					
APPROVAL S	ENGINEER	DATE	APPROVAL S	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		
DRAWING NO			SHEET		
1572			21 OF 37		



Existing Manholes

SM.H. #	Sta.	8" W. Inv. El.	8" S. Inv. El.	15" S.W. Inv. El.
404	10+47.00, 8.9' L.T.	4946.40	4941.18	4930.31
404	10+55.60, 9.9' L.T.	4946.43	4937.83	4941.83
407	10+51.00, no offset	4946.46	4937.06	4935.96
407	10+57.00, 1.0' L.T.	4945.45	4935.99	4936.04

Existing S.D. Junction Box

Sta.	8" W. Inv. El.	8" S. Inv. El.	15" S.W. Inv. El.
10+51.00	4946.46	4937.06	4935.96

CONCRETE CAP DETAIL
Scale: 3/8" = 1'-0"

NOTES:

- 4" Gas line to be removed and replaced by others.
- Water Valve Pit at OPP. STA. 7+54 - 4" Storm Drain is apparently abandoned. This will be removed during construction, but will not be replaced.
- Pavement Replacement shall be in accordance with City STD. DWG. P-25-2, Paving Section shall be Residential.
- 4" Water line to be abandoned. Location uncertain. Cap as required and transfer any service lines to 5" Steel line on north side of street.

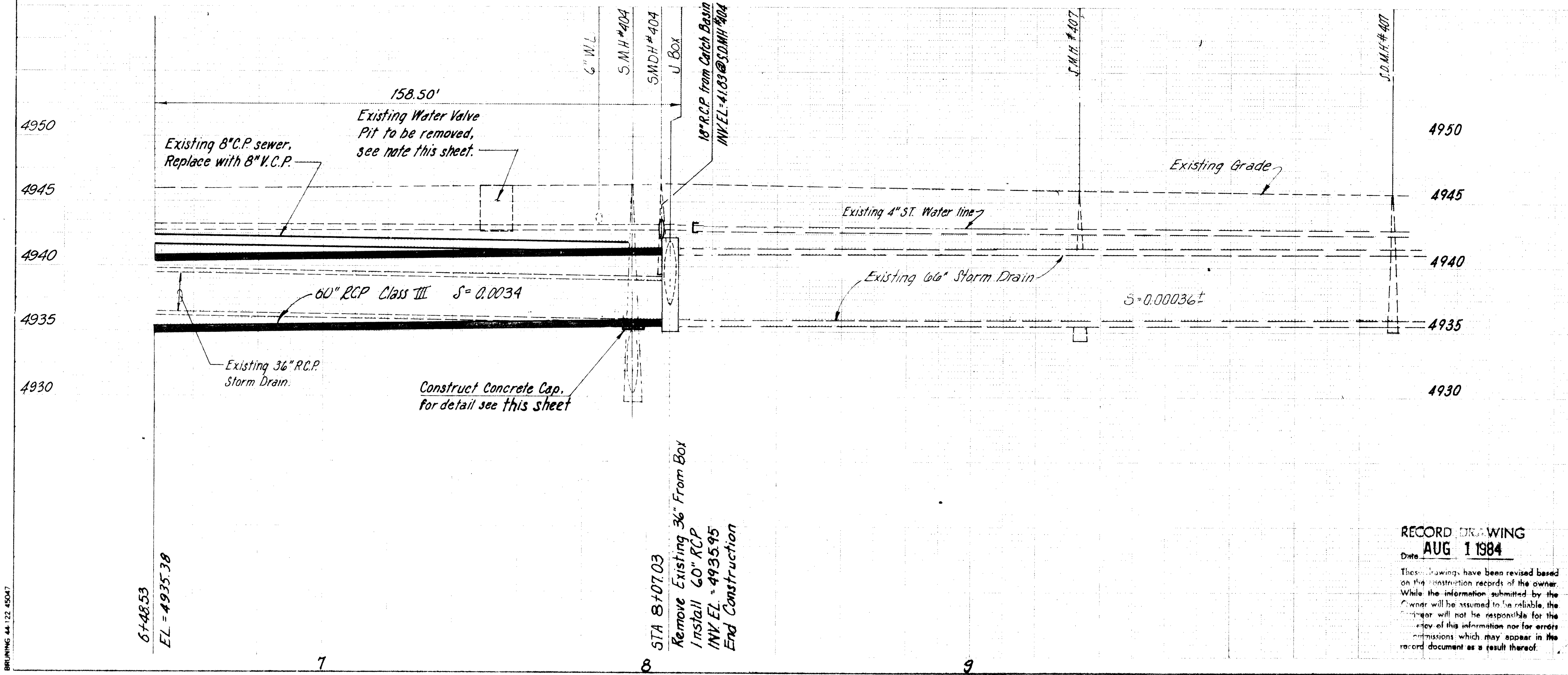
CONCRETE CAP DETAIL
Scale: 3/8" = 1'-0"

NOTES:

- 3" BETWEEN TOP OF SLAB 60" RCP & BOTTOM OF NEW 60" STORM DRAIN.
- NOTE: REVERSED CONC. CRADLE AT CROSS OVER OF NEW S.D. OVER 60" S.S.

SCALES:
Horiz. 1" = 20'
Vert. 1" = 5'

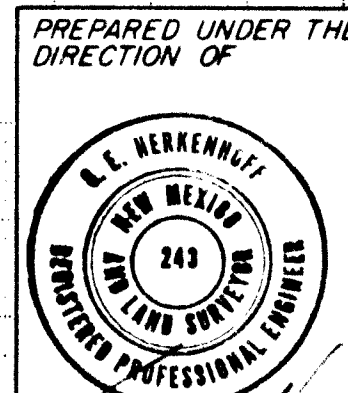
INFORMATION AND COLLECTION SYSTEM										AS BUILT INFORMATION									
AVE. STORM DRAIN										BENCH MARKS									
NO. DATE										CONTRACTOR									
REVISIONS										INSPECTOR'S FIELD									
DESIGN										DATE									
DRAWN BY JAE, CD										DATE									
CHECKED BY M.G., KCW										DATE									
CHECKED BY GAJ										DATE									
NO. DATE										MICRO-FILM INFORMATION									
NO. DATE										RECORDED BY									
NO. DATE										NO. DATE									
NO. DATE										NO. DATE									
NO. DATE										NO. DATE									
NO. DATE										NO. DATE									
NO. DATE										NO. DATE									
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BUILDING 44-22-45047

RECORD DRAWING
AUG 1 1984

These drawings have been revised based on the construction records of the owner. While the information submitted by the owner will be assumed to be reliable, the engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.



APPROVED FOR CONSTRUCTION

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

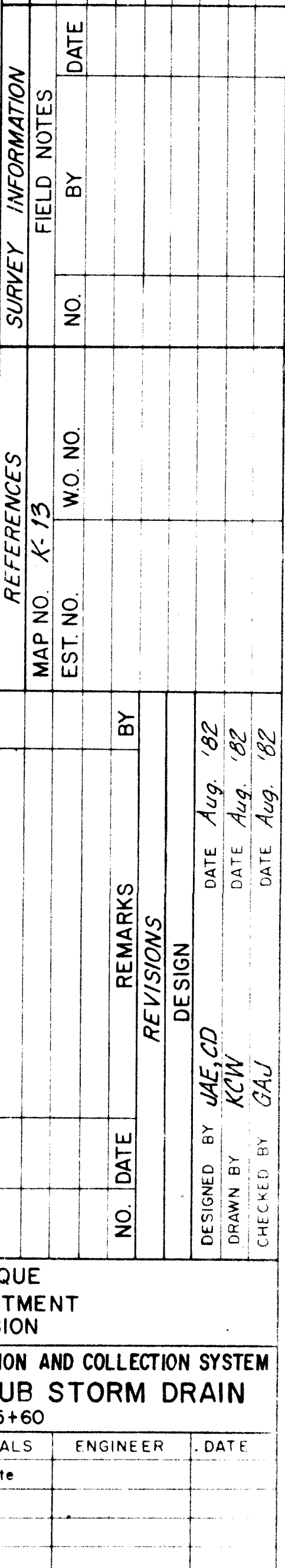
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
PLAN and PROFILE-IRON AVE. STORM DRAIN
STA. 6+48.53 TO STA. 8+07.53

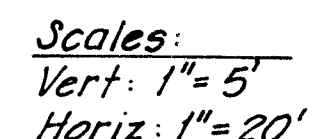
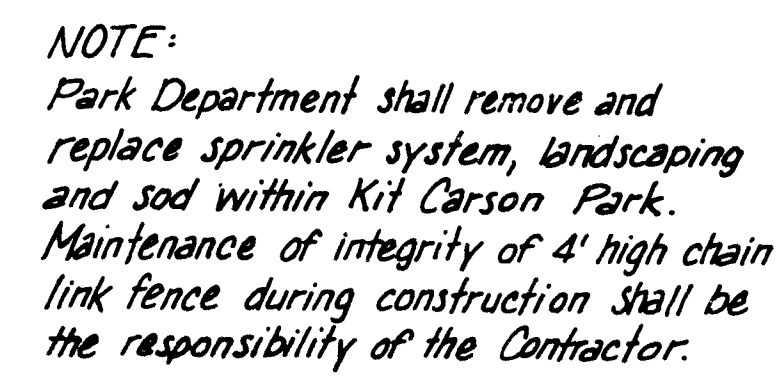
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 1572
SHEET 22 OF 37

PROJECT NO. 1823.13

CITY ENGINEER DATE





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ALS	ENGINEER	DATE
te		
SHEET 24 OF 37		

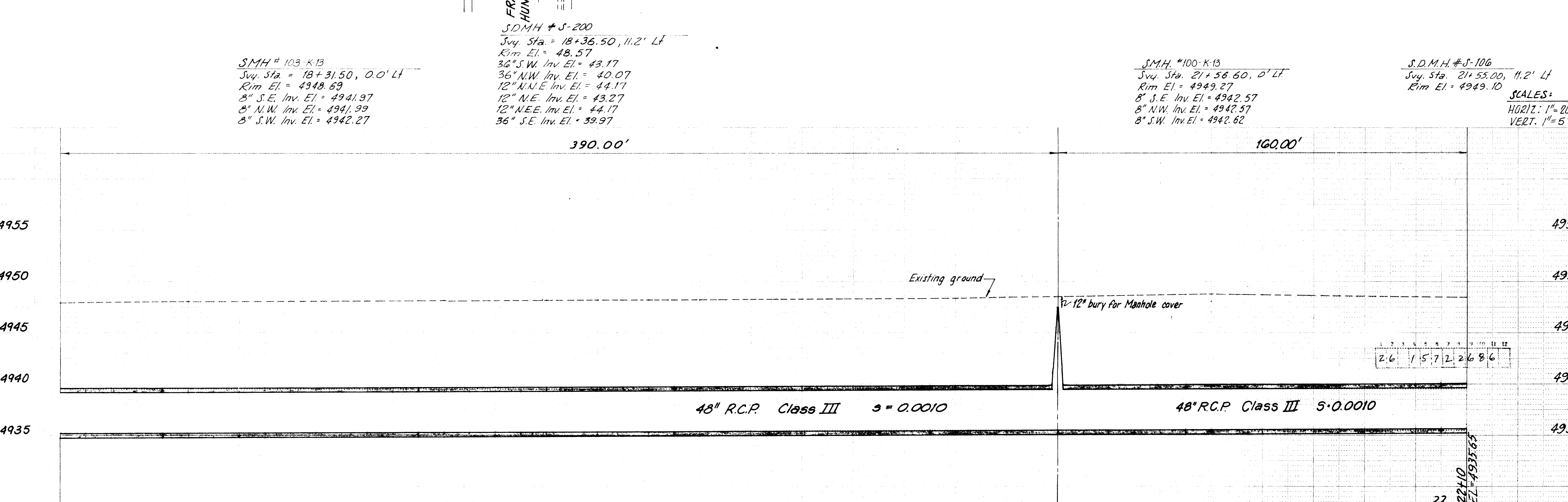
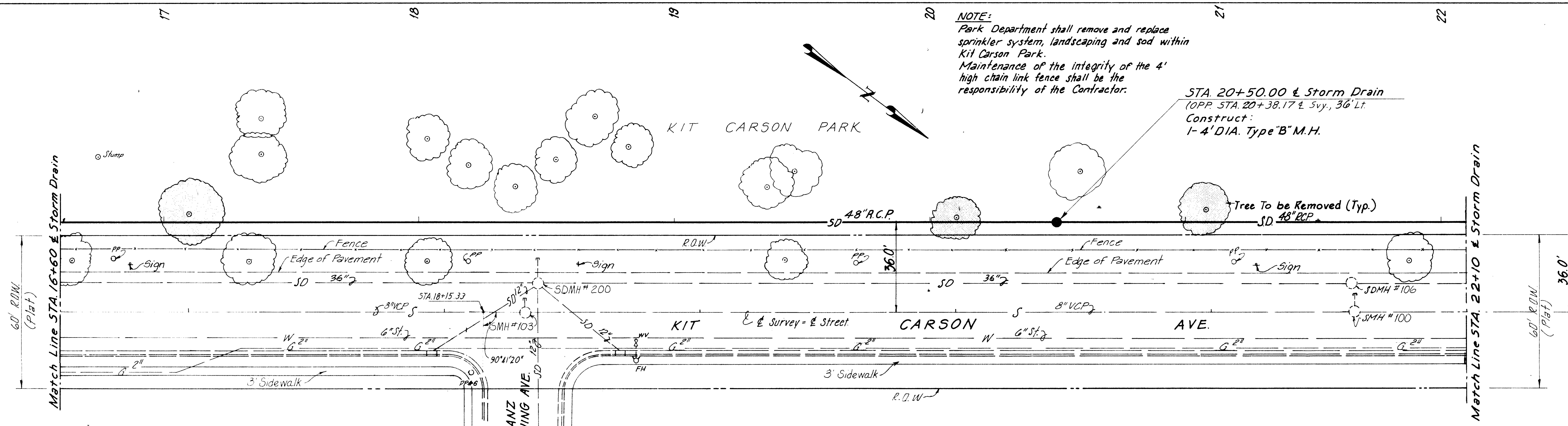
These drawings have been revised based on the construction records of the owner. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.



APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO.	1572	SHEET	24 ^{OF}	37
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[illegible]



BRUNING 44-122 45047

16+60
EL. = 4935.10

17

18

19

20+00

21

22
22+10
EL. = 4935.65

RECORD DRAWING
Date: AUG 1 1984

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STA. 20+50
Construct:
4' DIA. Type "B" M.H.
INV. EL. = 4935.50

PREPARED UNDER THE DIRECTION OF

GORDON HERKENHOFF & ASSOC. INC.

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
PLAN AND PROFILE - COUNTRY CLUB STORM DRAIN
STA. 16+60 TO STA. 22+10

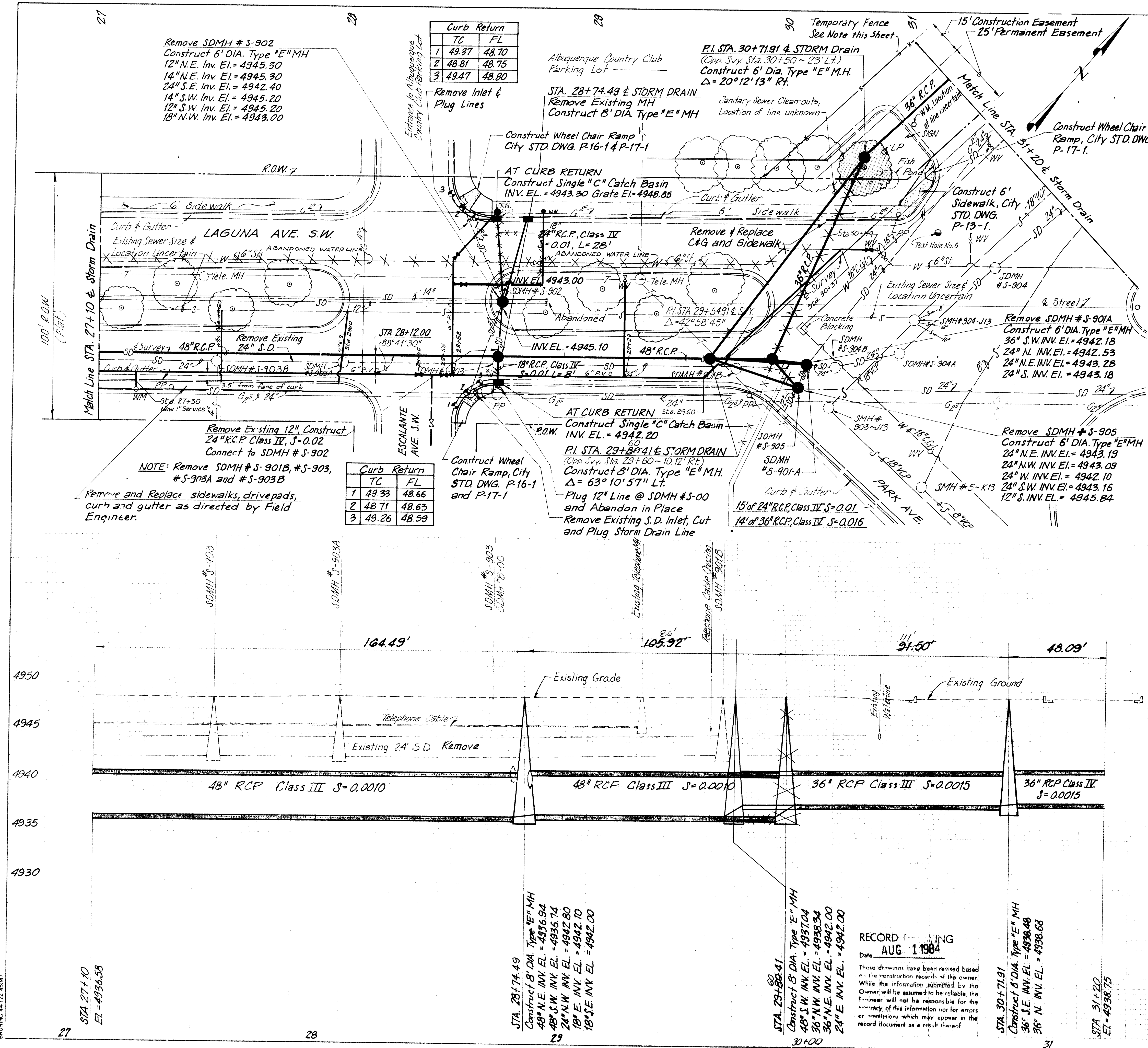
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO 1572

DESIGNED BY JAE, CO
DRAWN BY KCW, KK
CHECKED BY BAJ

DATE Aug '82
DATE Aug '82
DATE Aug '82





NOTE: Regarding landscaping in easement or Country Club property. Grading, Paving and Utilities will be replaced to original condition and trees will be planted by the Contractor. The Country Club will remove and replace sprinkler system, soil and other landscaping. Contact Field Engineer and Country Club Manager for scheduling prior to construction on Country Club property. (Applies to Sheets 28, 29, 30 and 31.)

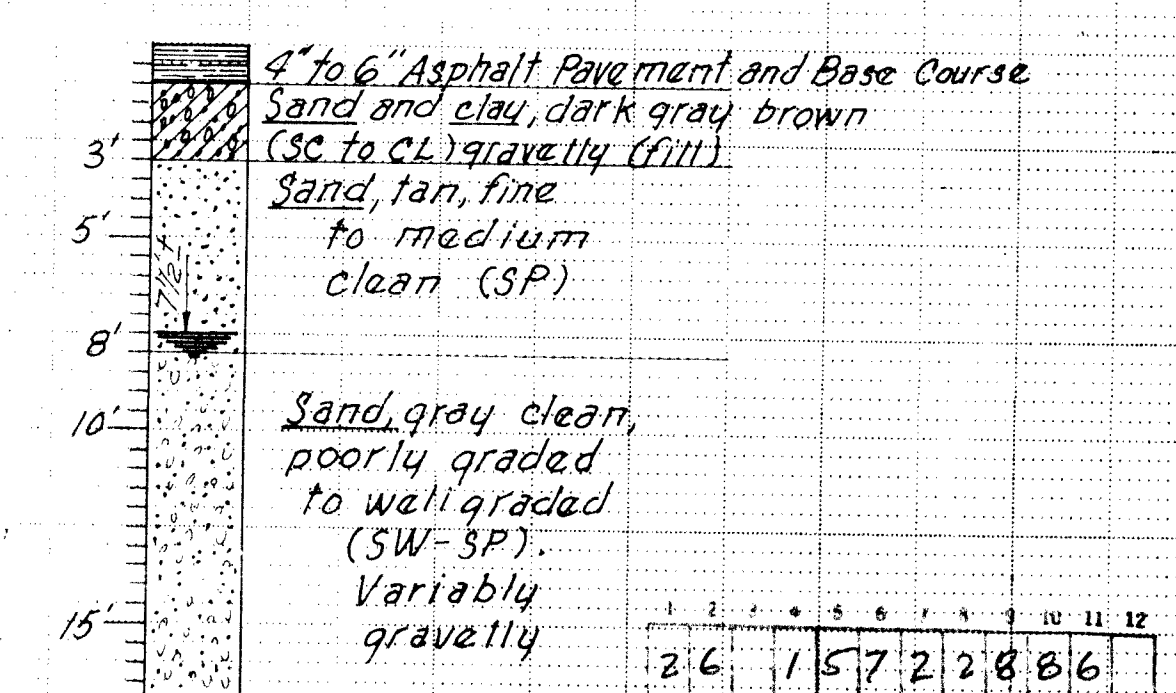
Pavement replacement section for Laguna, San Pasquale and Park shall be residential, City STD. DWG. P-25-2.

Existing 16" W.L. to be shut off and pressure relieved during storm drain construction at this intersection. Remove and replace blocking if necessary.

Removal and replacement of electrical wiring and lights in the Country Club Parking area shall be the responsibility of the Contractor. This shall be coordinated with the Country Club Manager.

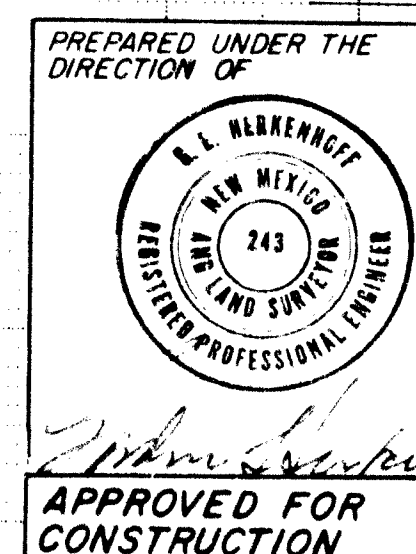
Chain Link fencing on Country Club property shall be removed. Temporary fencing shall be constructed along temporary easement line. Old fencing may be used for this purpose. New 6' sidewalk to be constructed, new 5' Chainlink fence to be constructed along property line.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES	
DATE	BY	DATE	BY	DATE	BY	DATE	BY
DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82
DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82	DATE 2/28/82
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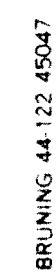


TEST HOLE NO. 6 - OPP. STA. 30+53+2 SURVEY
TEST HOLE DATA

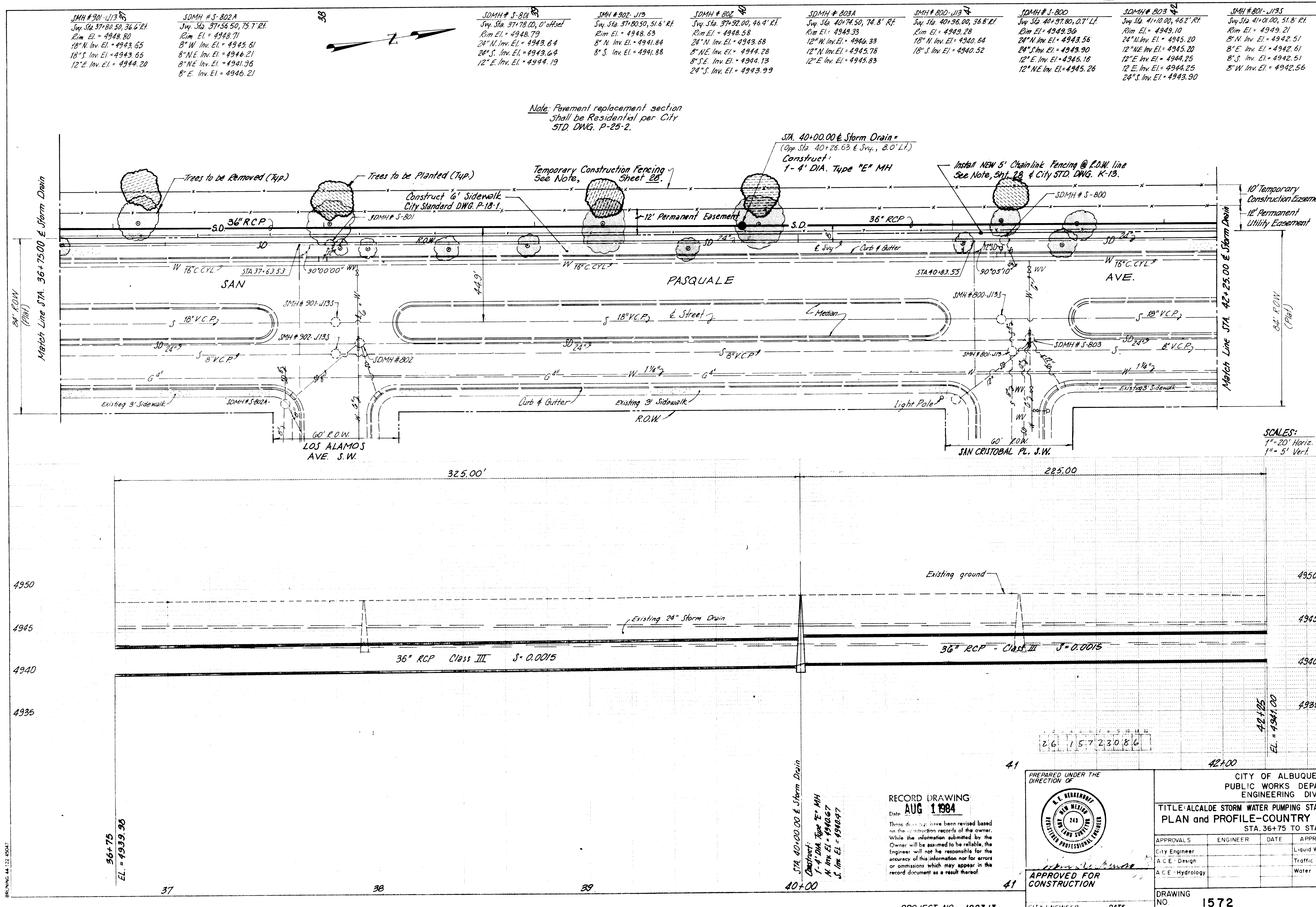
RECORD DRAWING
Date: AUG 1 1984
These drawings have been revised based on the construction records of the owner. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION				
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM PLAN AND PROFILE - COUNTRY CLUB STORM DRAIN STA. 27+10 TO STA. 31+20				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
CITY Engineer			Liquid Waste	
A.C.E. - Design			Traffic	
A.C.E. - Hydrology			Water	
DRAWING NO.	1572	SHEET	28	OF 37



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS		DESIGN	
CONTRACTOR	DATE	CONTRACTOR	DATE	FIELD NOTES	DATE	MAP NO.	W.D. NO.	NO.	DATE	DESIGNED BY	DATE
INSPECTOR'S	DATE	10-13 Located at the junction of San Pasquale Ave and Old Town Rd, in the SE quadrant of the intersection. A 60 Penny nail in electric powerline pole # 215. ELEV. 4957.175. 3-K13	DATE	BY	DATE	J-13, K-13				JAE, CD	Aug '82
FILED IN	DATE	Located at the intersection of 12th St and 6th Ave in the SW quadrant of the intersection. A square, El. chiseled on top of concrete curb at the WSW curb return. Elev. 4945.006	DATE	NO.						KCW	Aug '82
VERIFICATION BY	DATE									BAJ	Aug '82
CORRECTED BY	DATE										
MICRO-FILM INFORMATION											
RECORDED BY	NO.										



BRUNING 44 122 45047

RECORD DRAWING
Date AUG 1 1984
These drawings have been revised based on the construction records of the owner. While the information submitted by the Owner will be assumed to be reliable, the Engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.

PREPARED UNDER THE DIRECTION OF
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
PLAN and PROFILE-COUNTRY CLUB STORM DRAIN
STA. 36+75 TO STA. 42+25

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		

DRAWING NO. 1572
SHEET 30 OF 37

CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
AS BUILT							

CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
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CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
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CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
AS BUILT							

CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
AS BUILT							

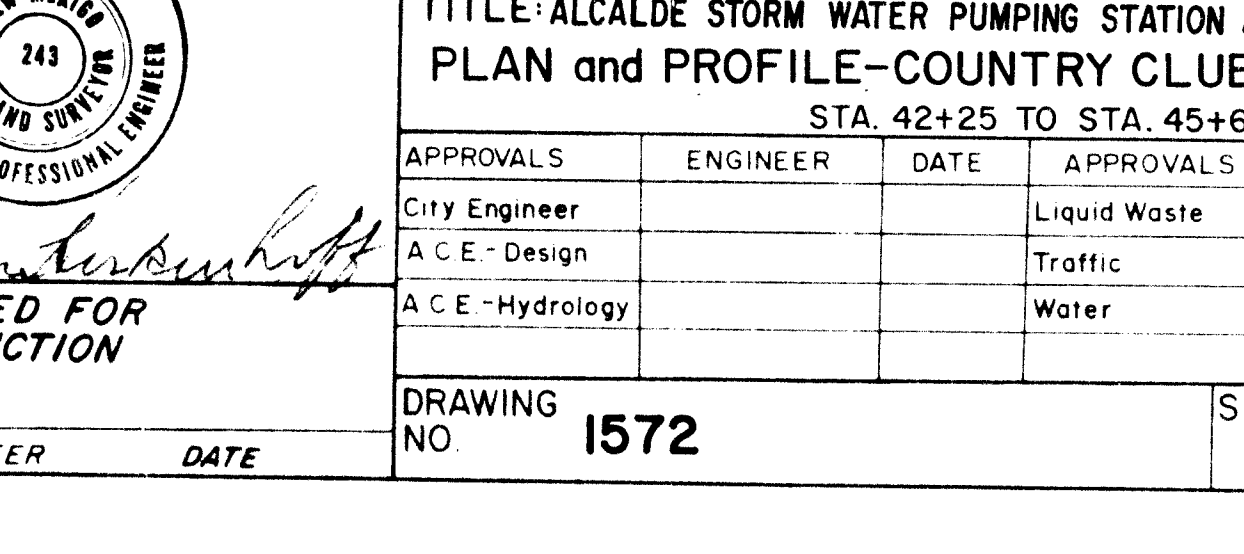
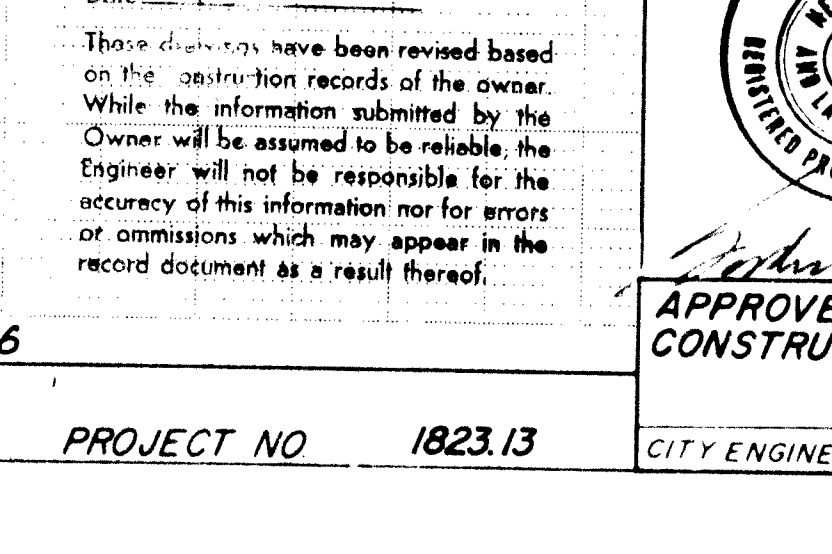
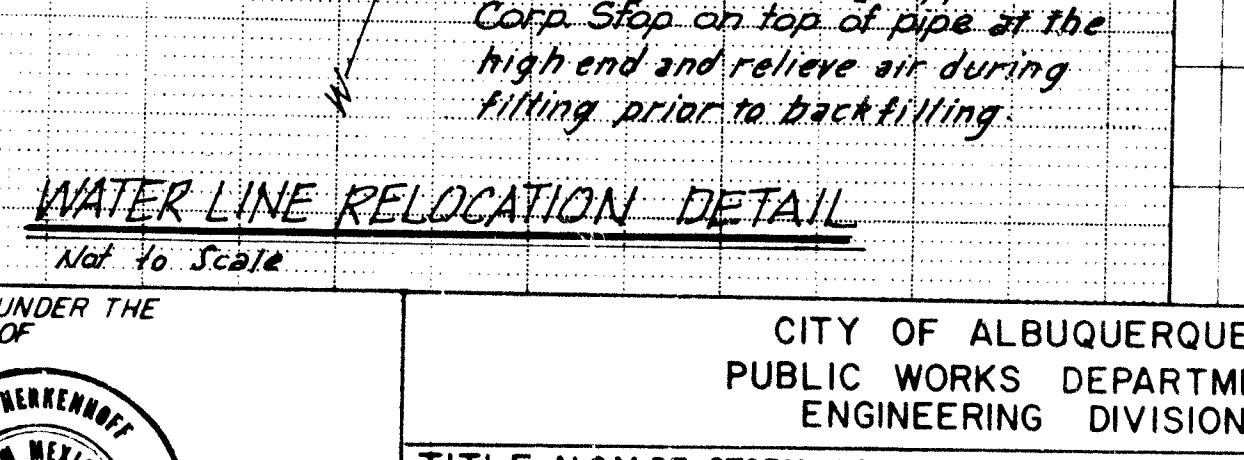
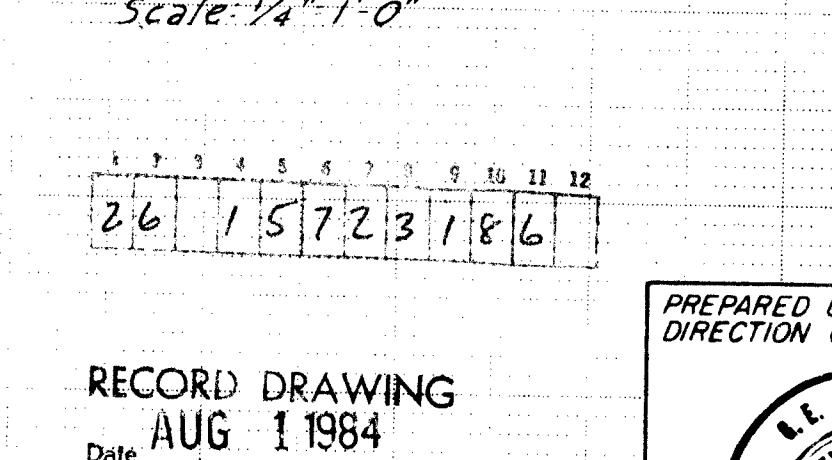
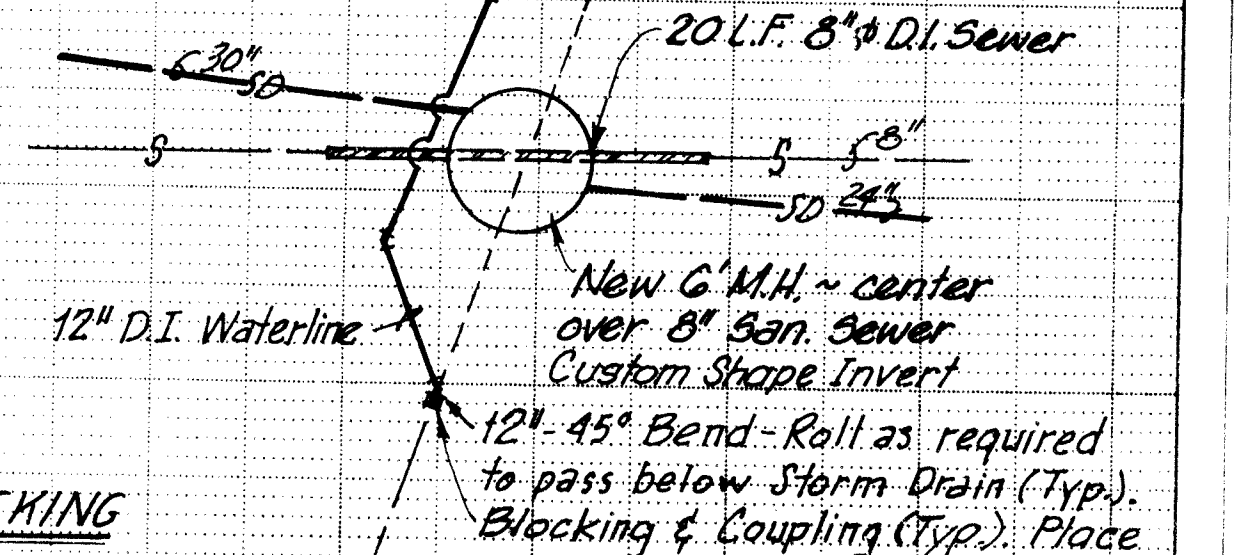
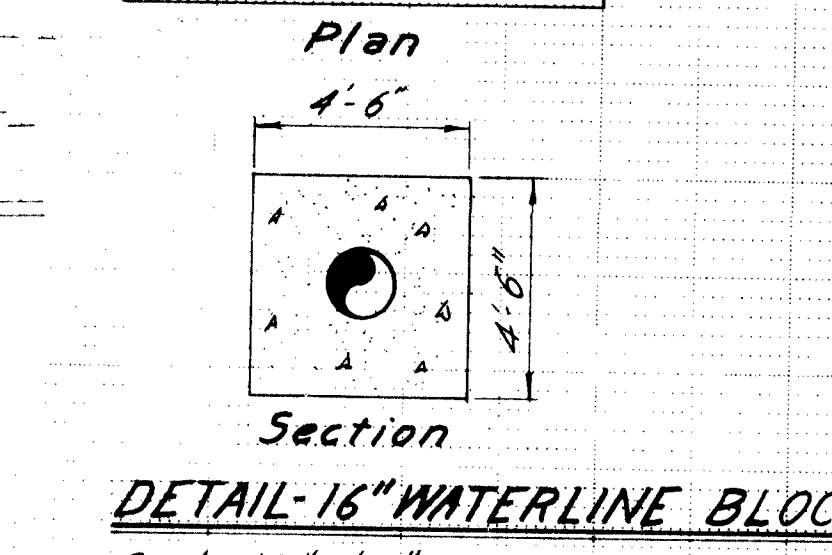
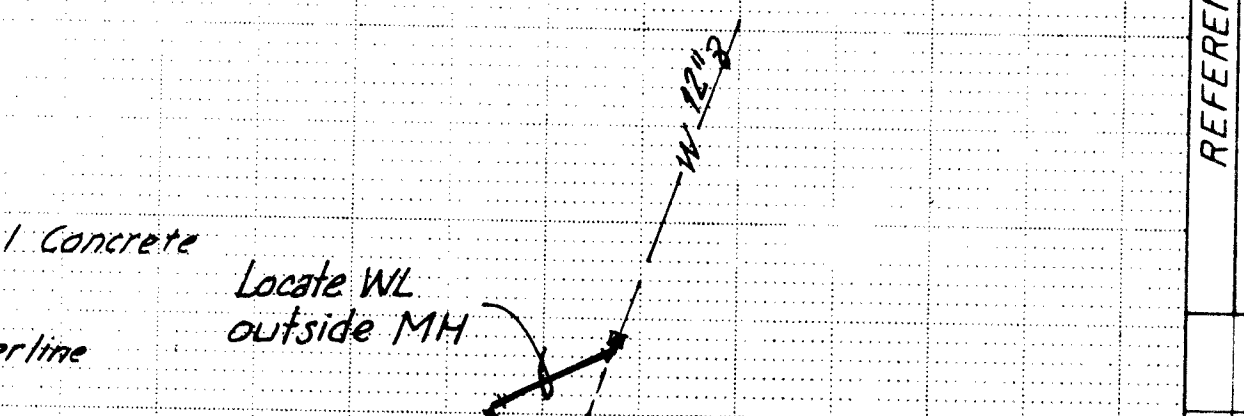
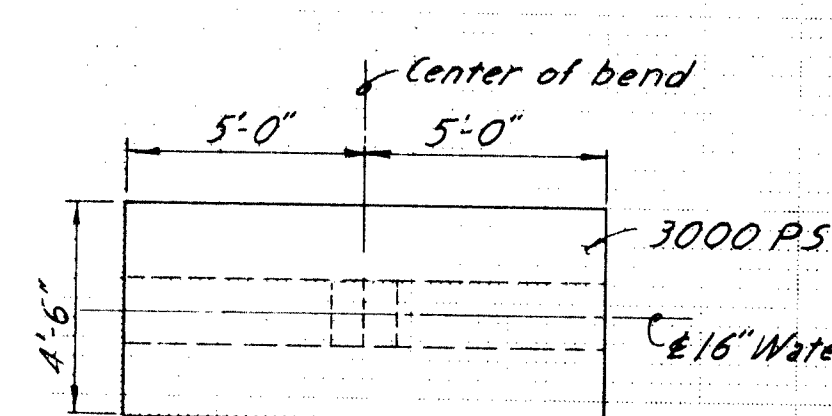
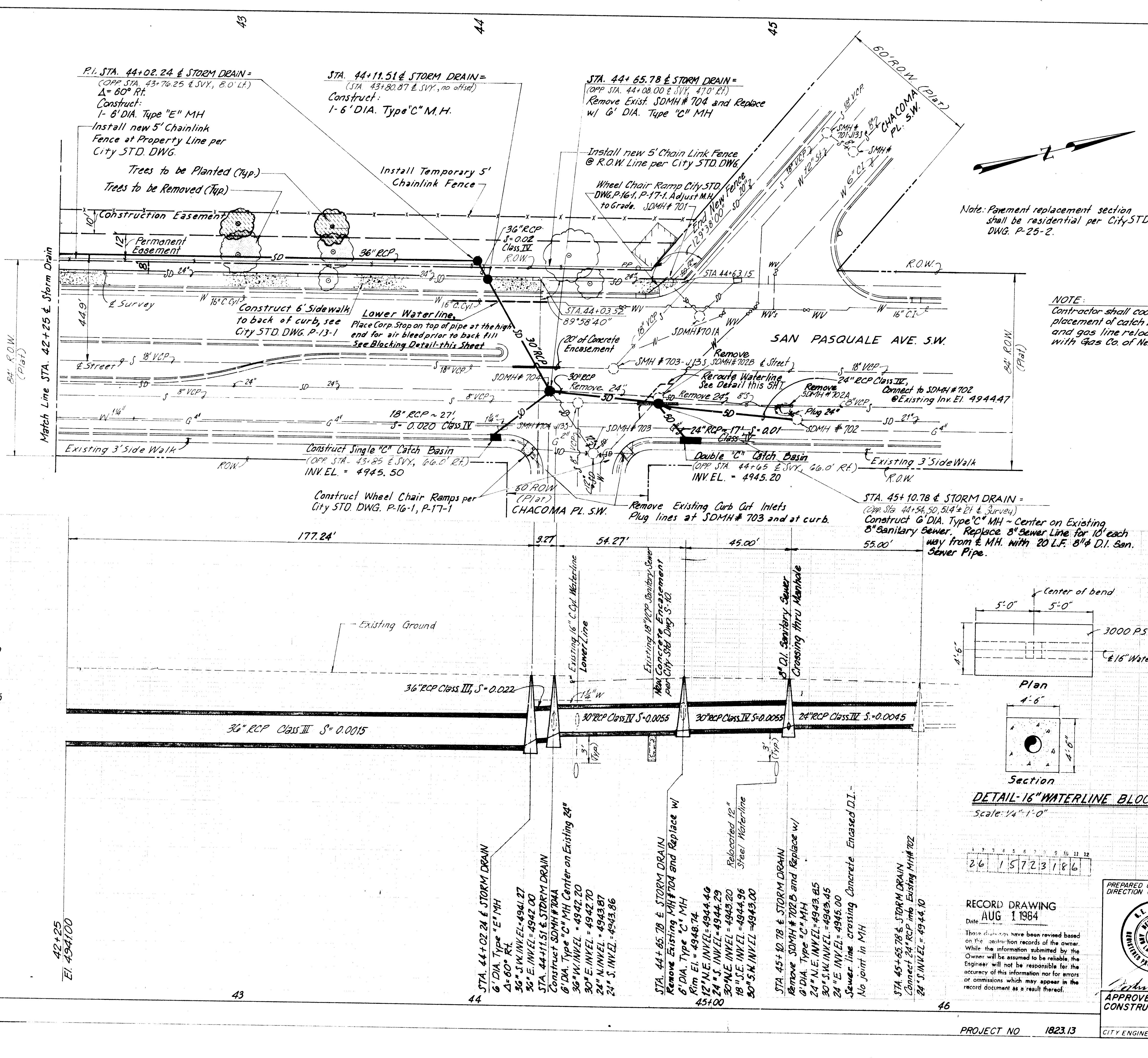
CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
AS BUILT							

CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
AS BUILT							

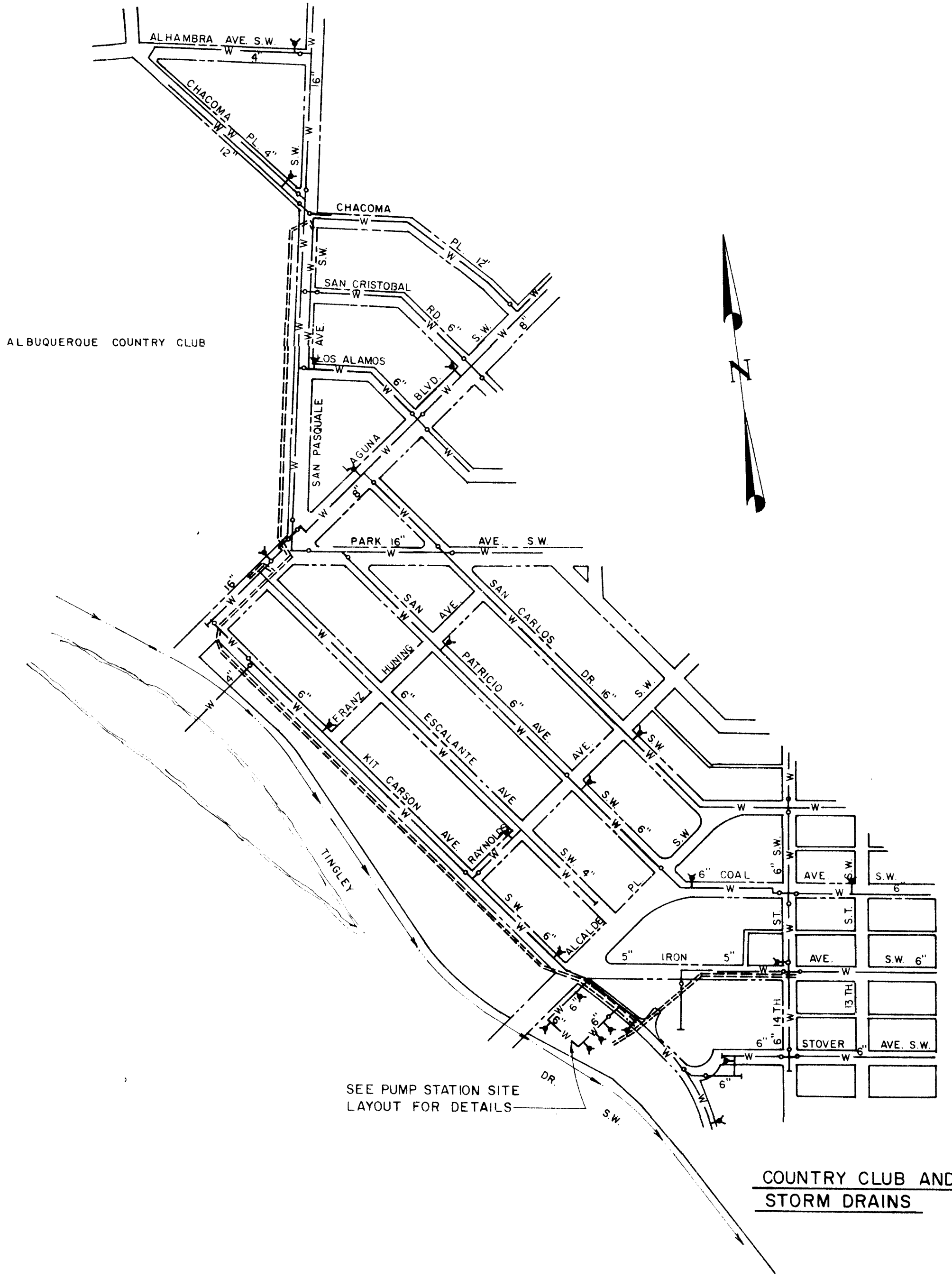
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AS BUILT							

CONTRACTOR	DATE	INSPECTOR	DATE	FILED	DATE	REVISIONS	DATE
AS BUILT							



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES		REVISIONS		DESIGN	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	MAP NO.	W.O. NO.	NO.	DATE	BY	DATE
WORK	DATE										
STAKED BY	DATE										
FIELD	DATE										
ACCEPTANCE BY	DATE										
VERIFICATION BY	DATE										
CORRECTED BY	DATE										
MICRO-FILM	DATE										
RECORDED BY	DATE										
NO.											



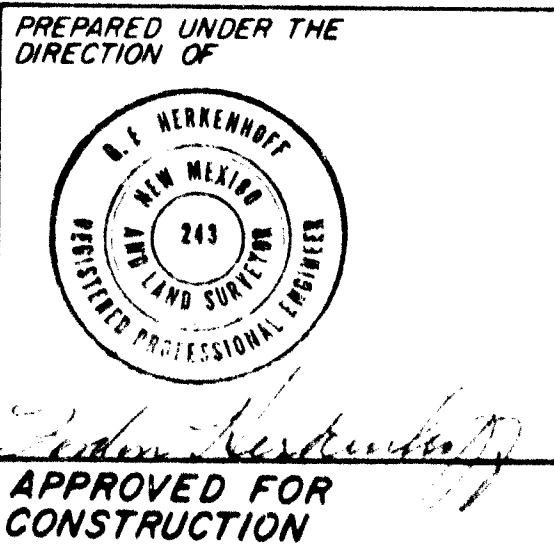
COUNTRY CLUB AND IRON AVE.
STORM DRAINS

NOTE:
Waterline and valve locations are shown schematically for information purposes only. The data shown is taken from City of Albuquerque water system sectional maps. Valve locations, Waterline locations, Valve operating conditions, and completeness of waterline cross connections have not been field verified. Gordon Herkenhoff and Associates assumes no responsibility for operations of the existing system or for failure of shutoffs based upon the data on this layout.

- LEGEND
- EXISTING WATER LINES
 - EXISTING WATER VALVES
 - STORM DRAIN THIS PROJECT
 - EXISTING FIRE HYDRANTS

RECORD DRAWING
AUG 1 1984

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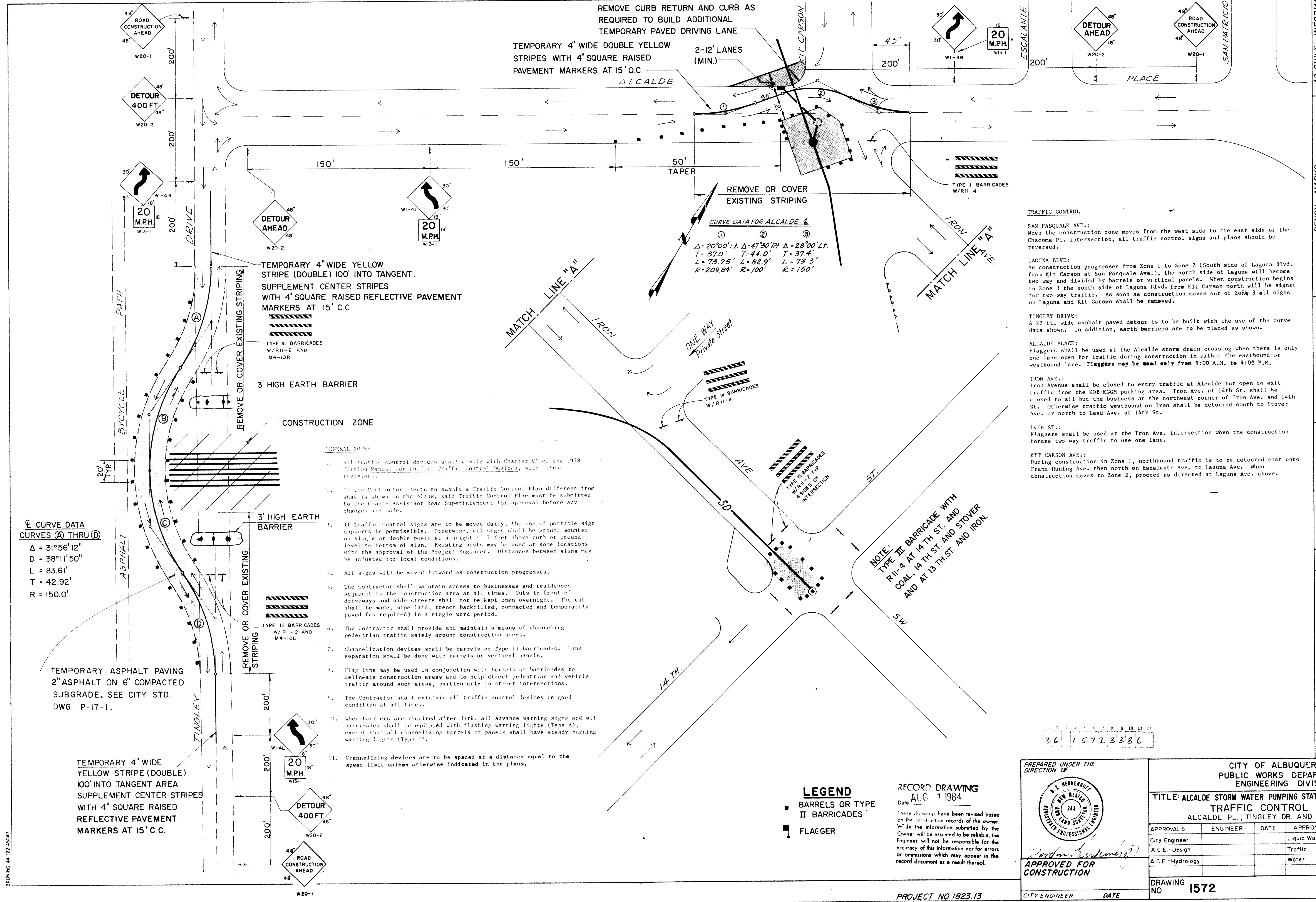


APPROVED FOR CONSTRUCTION

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION			
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM VALVE LOCATION PLAN			
EXISTING WATER LINE LAYOUT AND VALVE LOCATION PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer			Liquid Waste
A.C.E. - Design			Traffic
A.C.E. - Hydrology			Water
DRAWING NO. 1572		SHEET 32 OF 37	
CITY ENGINEER DATE			

BRUNING 44-122-45047

PROJECT NO. 182313



TRAFFIC CONTROL

SAN PASQUALE AVE.:
When the construction zone moves from the west side to the east side of the Chacoma Pl. intersection, all traffic control signs and plans should be reversed.

LAGUNA BLVD:
As construction progresses from Zone 1 to Zone 2 (South side of Laguna Blvd. from Kit Carson at San Pasquale Ave.), the north side of Laguna will become two-way and divided by barrels or vertical panels. When construction begins in Zone 3 the south side of Laguna Blvd. from Kit Carson north will be signed for two-way traffic. As soon as construction moves out of Zone 3 all signs on Laguna and Kit Carson shall be removed.

TINGLEY DRIVE:
A 22 ft. wide asphalt paved detour is to be built with the use of the curve data shown. In addition, earth barriers are to be placed as shown.

ALCALDE PLACE:
Flaggers shall be used at the Alcalde storm drain crossing when there is only one lane open for traffic during construction in either the eastbound or westbound lane. **Flaggers may be used only from 9:00 A.M. to 4:00 P.M.**

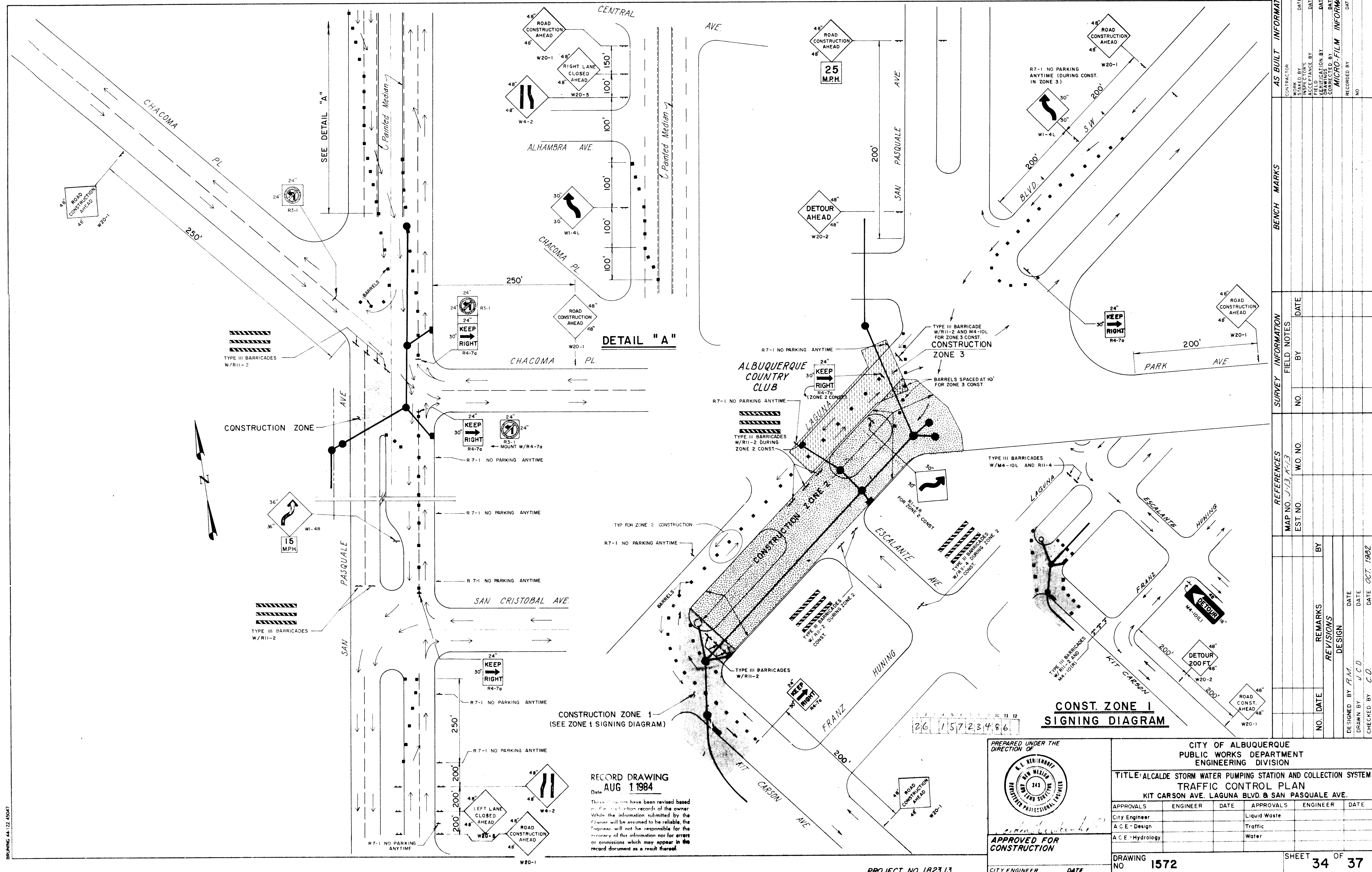
IRON AVE.:
Iron Avenue shall be closed to entry traffic at Alcalde but open to exit traffic from the KOB-KGGM parking area. Iron Ave. at 14th St. shall be closed to all but the business at the northwest corner of Iron Ave. and 14th St. Otherwise traffic westbound on Iron shall be detoured south to Stover Ave. or north to Lead Ave. at 14th St.

14TH ST.:
Flaggers shall be used at the Iron Ave. intersection when the construction forces two way traffic to use one lane.

KIT CARSON AVE.:
During construction in Zone 1, northbound traffic is to be detoured east onto Franz Huling Ave. then north on Escalante Ave. to Laguna Ave. When construction moves to Zone 2, proceed as directed at Laguna Ave. above.

26 15723386

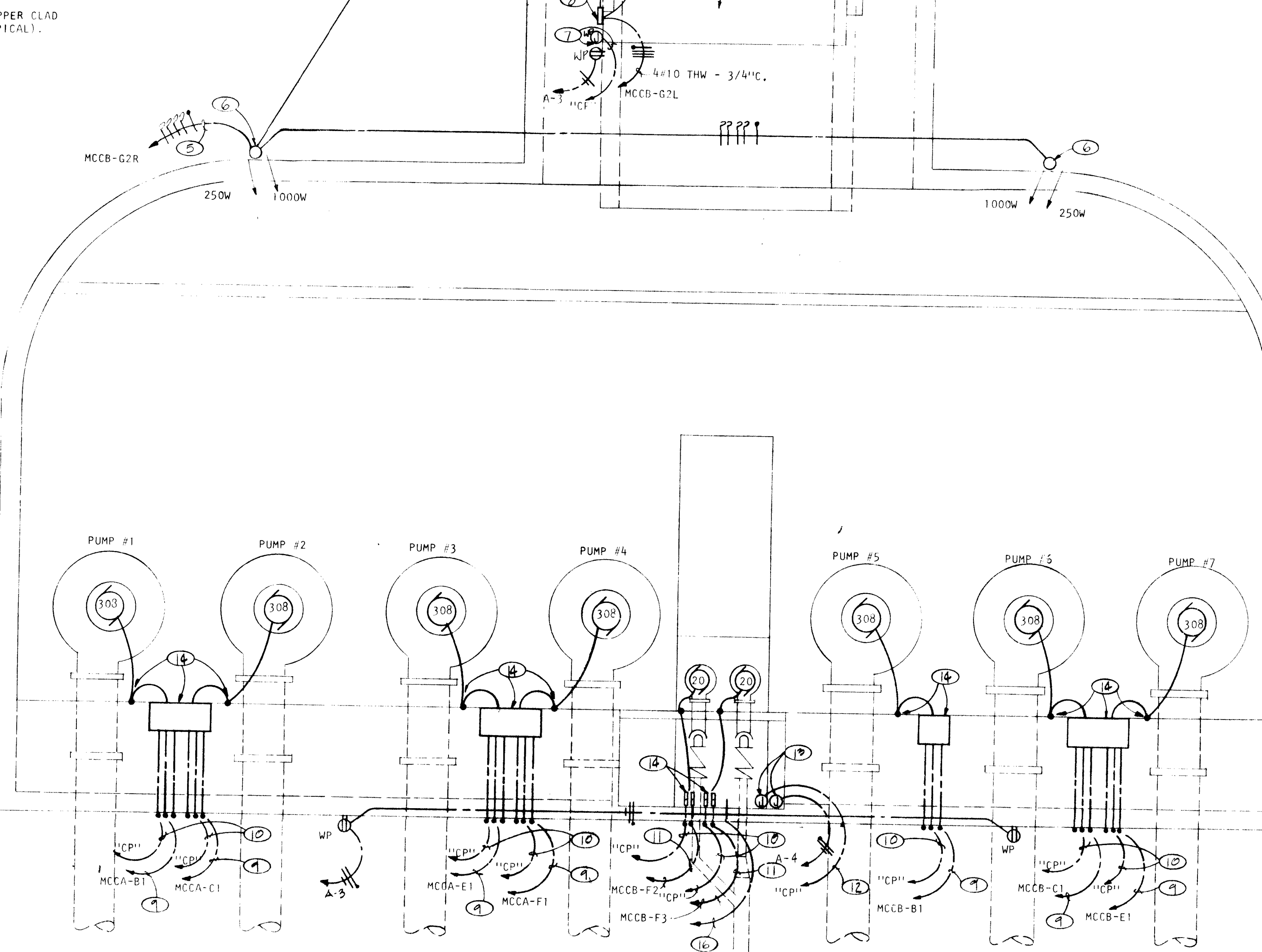
PREPARED UNDER THE DIRECTION OF		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION			
G. HERKENHOFF REGISTERED PROFESSIONAL ENGINEER 243		TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM TRAFFIC CONTROL PLAN ALCALDE PL., TINGLEY DR. AND IRON AVE. S.W.			
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO. 1572		SHEET 33 OF 37			
CITY ENGINEER		DATE			



KEYED NOTES CONT.

21. BLOCK-OUTS SHOWN FOR BID PURPOSES. CONTRACTOR SHALL CO-ORDINATE EXACT SIZE AND LOCATION OF BLOCK-OUTS WITH EQUIPMENT FURNISHED.
22. EXTEND 1" CONDUIT BETWEEN AIR COMPRESSOR CONTROL CABINET AND CONTROL PANEL "CP". EXTEND ALL CONDUCTORS AND MAKE ALL CONNECTIONS REQUIRED.
23. CENTRIFUGAL TYPE EXHAUST FAN WITH SPUN ALUMINUM HOUSING, ALUMINUM CURB CAP, STAINLESS STEEL FASTENINGS, PRE-LUBRICATED BALL BEARING DRIVE, VIBRATION ISOLATORS, NON-OVERLOADING ALL ALUMINUM WHEEL AND HUB DYNAMICALLY AND STatically BALANCED, BACKDRAFT DAMPERS, BIRDSCREEN, DISCONNECT SWITCH, EXTERNAL ALUMINUM WIRING POST, PREFABRICATED SOUND CURB AND WIRING TO JUNCTION BOX. GREENHECK #8814 CAPABLE OF 615 CFM AGAINST 1 1/4" S.P. WITH 1/4 HP MOTOR, 120V, 1P.
24. STUB 2" CONDUIT 2'-0" ABOVE AND BELOW ROOF. STRAP RIGIDLY TO WALL FOR FUTURE ANTENNA MAST. BUSH END AND CAP TOP.
25. STUB CONDUITS 6" ABOVE FLOOR AND CAP FOR FUTURE EXTENSION.

CONCRETE ENCASED DUCT DETAIL SCALE: NONE



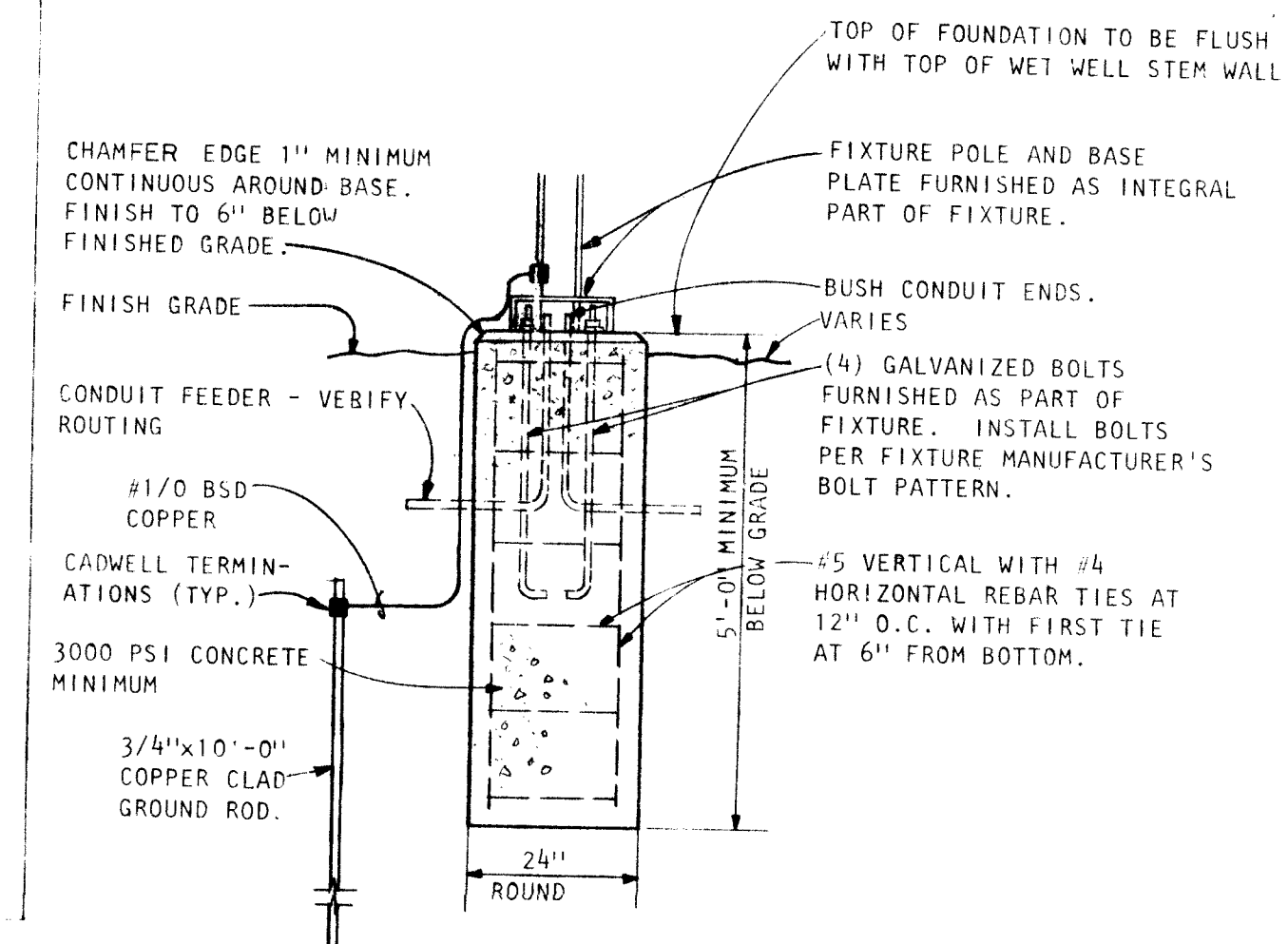
ELECTRICAL PLAN — PUMP STATION / CONTROL ROOM SCALE: 1/4" = 1'-0"

LIGHTNING PROTECTION NOTES

1. ALL GROUNDING CONDUCTORS TO BE #1/0 COPPER.
2. GROUND RODS TO BE 3/4" x 10'-0" LONG COPPER CLAD.
3. ALL CONDUCTOR CONNECTIONS TO BE MADE USING CADWELL PROCESS.
4. ENTIRE LIGHTNING PROTECTION AND COUNTERPOISE SYSTEM TO MEET U.L. MASTER LABEL REQUIREMENTS. FURNISH SUBMITTAL SHOWING COMPLETE AND DETAILED PROTECTION PLAN, SYSTEM TO BE AS MANUFACTURED BY ROBIN, THOMPSON OR EQUAL.

KEYED NOTES

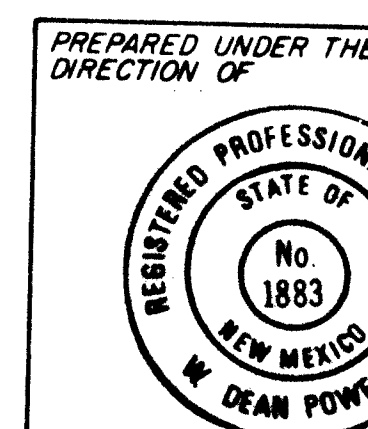
1. FURNISH AND INSTALL 8'-0" INDUSTRIAL LIGHTING FIXTURE WITH 2/F96T12/HO LAMPS, LAMP GUARD AND ENDCAPS, SURFACE MOUNTED. FIXTURE TO BE BENJAMIN #FL-1025-BU/FL-173.
2. 2" CONDUIT WITH CONDUCTORS REQUIRED FOR CONTROL AND INTERLOCK WITH CONTROL PANEL.
3. NEMA 1 ENCLOSURE SIZED TO HOUSE CONTACTORS INDICATED IN "EXTERIOR LIGHTING CONTROL DIAGRAM" ON SHEET E2. INSTALL NAMEPLATE ON SWITCH READING "AUXILIARY EXTERIOR LIGHTING".
4. SEE POWER RISER DIAGRAM AND ELECTRICAL SITE PLAN FOR REQUIREMENTS.
5. EXTEND TO CIRCUIT INDICATED THRU EXTERIOR LIGHTING CONTROL.
6. FURNISH AND INSTALL HIGH PRESSURE SODIUM FLOODLIGHTING COMPLETE WITH POLE & FIXTURES INDICATED. CONTROL TO BE AS INDICATED IN "EXTERIOR LIGHTING CONTROL DIAGRAM" WITH THE 250 WATT FIXTURES ON CIRCUIT "B" AND THE 1000 WATT FIXTURES ON CIRCUIT "C". MCGRAW EDISON #PS4106 40'-0" TAPERED ROUND STEEL POLE WITH #PS22HD BRACKET AND ONE (1) #FL2251/480 (250 WATT) FIXTURE AND ONE (1) #FL3281/480 (1000W) FIXTURE. PAINT POLE TO MATCH FIXTURES AND INSTALL ON BASE AS DETAILED ON THIS SHEET.
7. INSTALL J-BOX AT HEIGHT REQUIRED FOR CONNECTION OF BAR SCREEN CONTACTS. INSTALL CONDUCTORS REQUIRED IN 1" CONDUIT TO "CP".
8. 30 AMP/3P+G, NEMA 4X 600 VOLT NON-FUSED DISCONNECT SWITCH.
9. (2) 2-1/2" CONDUITS EACH CONTAINING 3 #4/0 THW + 1 #2 GROUND.
10. 1-1/4" CONDUIT WITH CONDUCTORS REQUIRED FOR CONTROL AND INTERLOCK.
11. 3 #8 THW + 1 #10 (GROUND) IN 1" CONDUIT. CONDUIT THRU STEM WALL AND "LB" TO BE 1-1/4".
12. EXTEND 1" CONDUIT (METALLIC) WITH CONTROL CONDUCTORS REQUIRED FOR LEVEL PROBES.
13. INSTALL J-BOXES BELOW GRATING FOR POWER AND CONTROL CONNECTIONS TO LEVEL PROBES. FINAL CONNECTIONS TO BE MADE USING LIQUID TIGHT FLEX CONDUIT. VERIFY EXACT LOCATION PRIOR TO ROUGH IN.
14. SEE RECEPTACLE DETAILS ON SHEET E-3 FOR REQUIREMENTS.
15. NEMA 4X CONTROL ENCLOSURE FOR MECHANICAL BAR SCREEN.
16. 2" PVC CONDUIT FOR 1/4" BUBBLER TUBE - ALL BENDS TO BE LONG RADIUS ELBOWS TO AIR COMPRESSOR CABINET.
17. BOND STRUCTURAL STEEL (RE-BAR, ETC.) TO COUNTERPOISE. (TYPICAL)
18. CONNECT ELECTRICAL SERVICE GROUND TO BUILDING COUNTERPOISE.
19. BOND MECHANICAL EQUIPMENT AND PIPING TO COUNTERPOISE.
20. EXTEND DOWN CONDUCTOR FROM AIR TERMINAL LOOP AT COUNTERPOISE. (TYPICAL)



POLE MOUNTING DETAIL NO SCALE

RECORD DRAWING
Date: AUG 11984

These drawings have been revised based on the construction records of the owner. While the information submitted by the owner will be assumed to be reliable, the engineer will not be responsible for the accuracy of this information nor for errors or omissions which may appear in the record document as a result thereof.



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

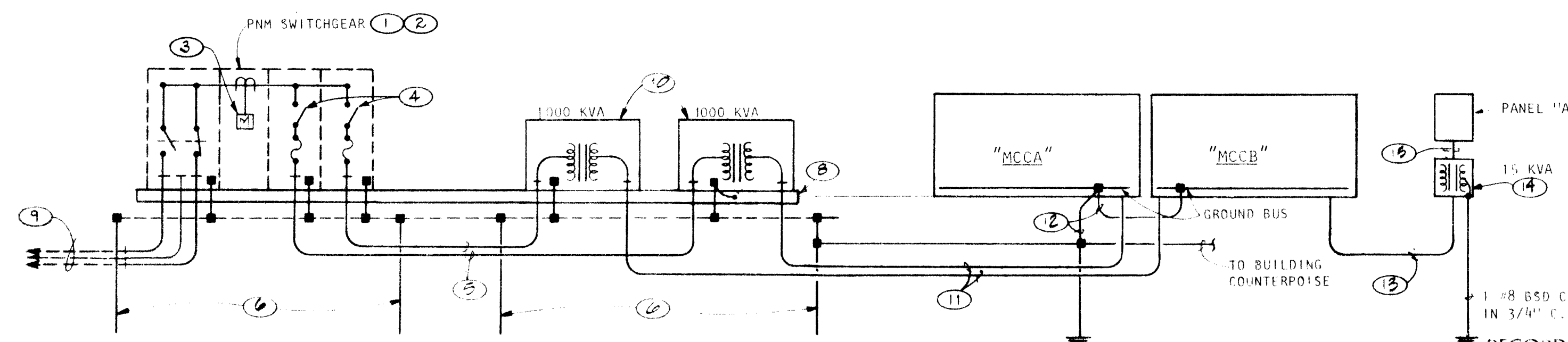
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
ELECTRICAL PLANS - CONTROL BUILDING AND STATION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

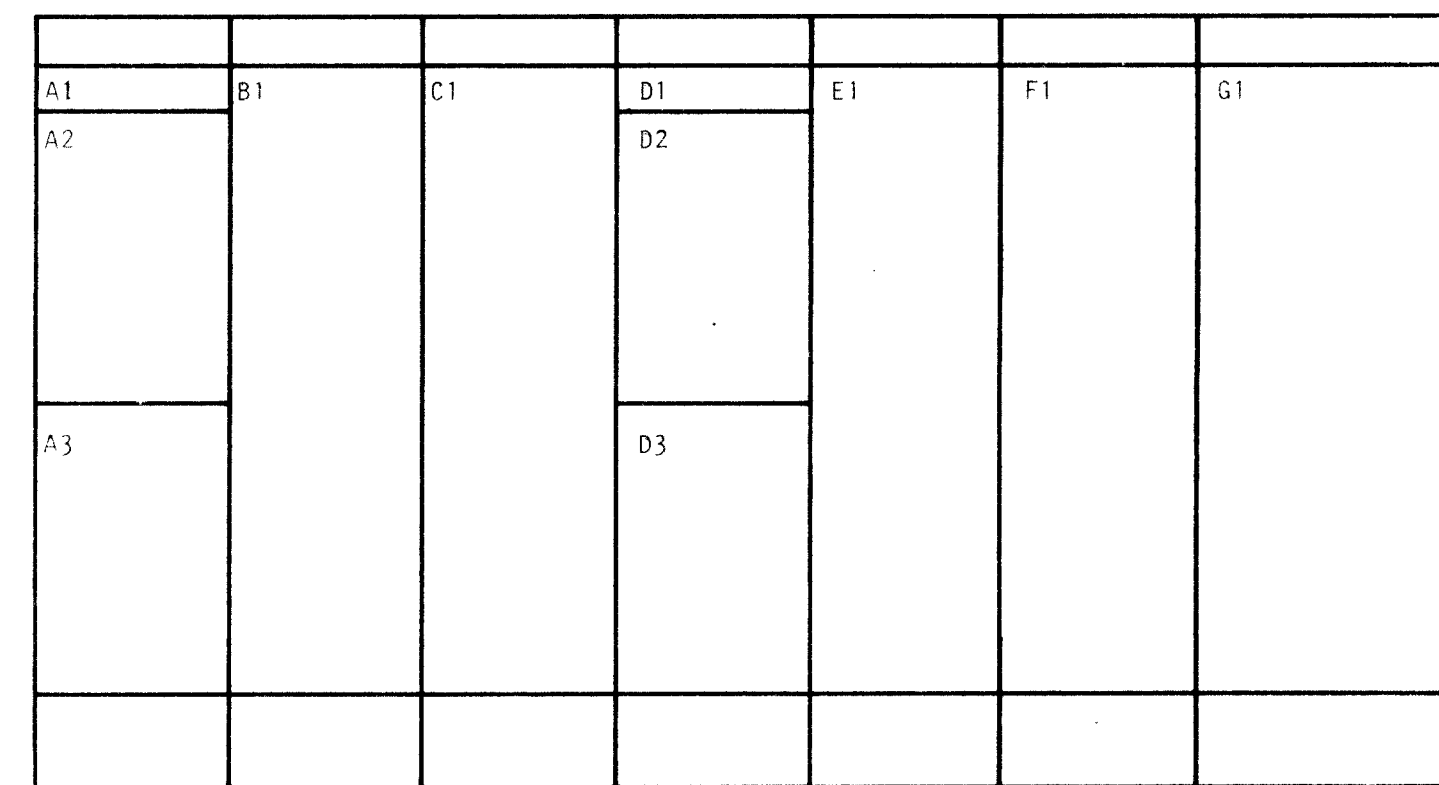
DRAWING NO. 1572

SHEET 35 OF 37

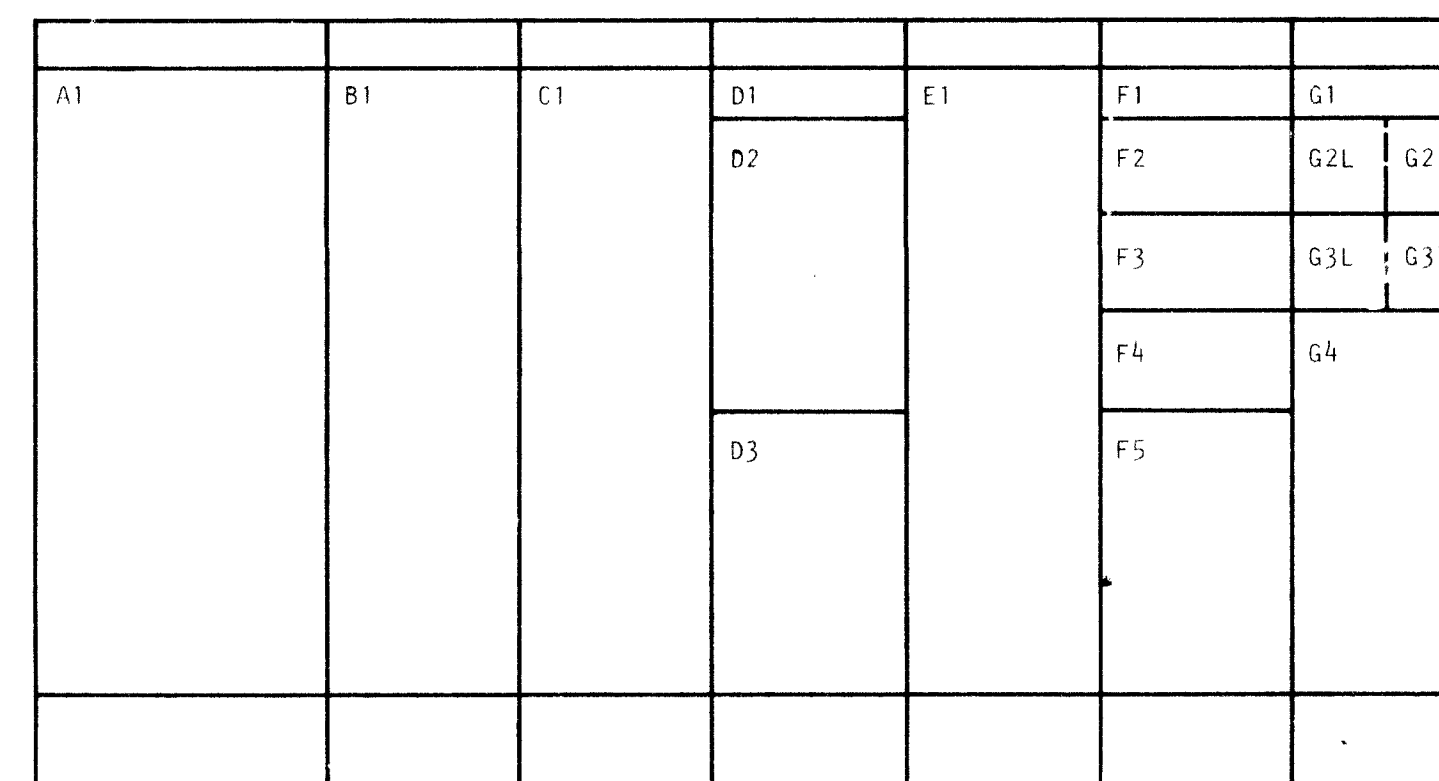
MOTOR CONTROL CENTER

[illegible]

POWER RISER DIAGRAM
SCALE: NONE

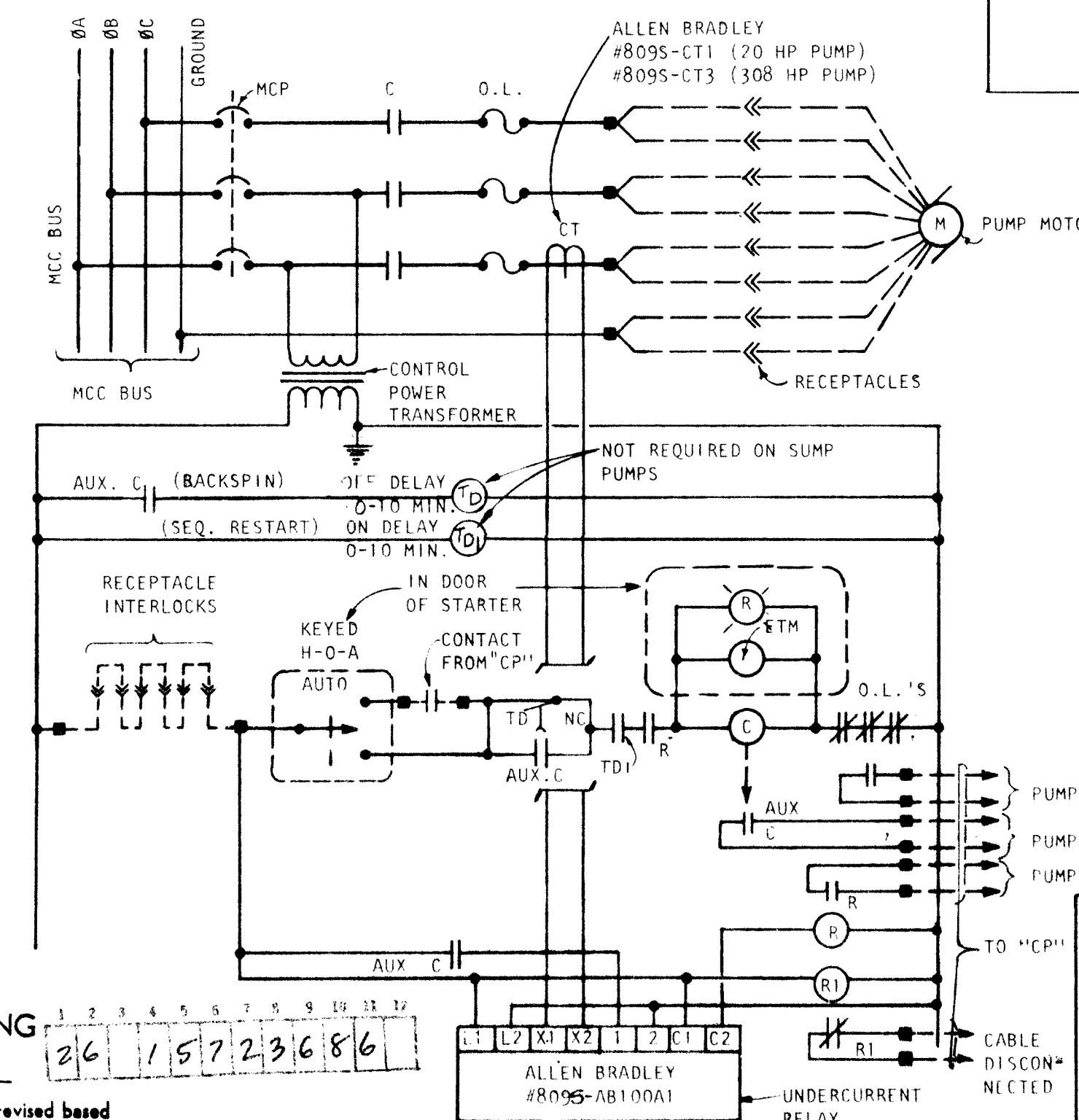


"MCCA"



"MCCB"

"MCC" ELEVATIONS



PUMP CONTROL DIAGRAM

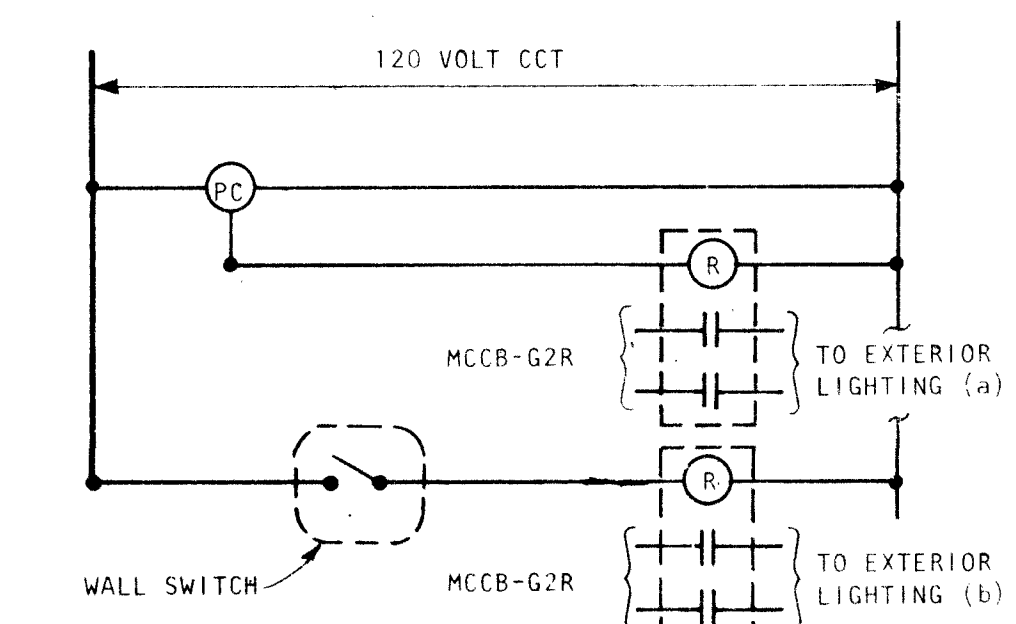
SCALE: NONE

KEYED NOTES

- (1) PNM 15 KV SERVICE EQUIPMENT, FURNISHED AND INSTALLED BY PNM.
- (2) TERMINATE CONDUCTORS PER PNM AND CABLE MANUFACTURERS REQUIREMENTS.
- (3) METERING IN SWITCHGEAR, BY PNM.
- (4) 15 KV GROUP OPERATED FUSIBLE SWITCH.
- (5) 3/4" O COPPER 15KV SHIELDED AND 1/2" TW GROUND IN 4" RS CONDUIT. INSTALL ADDITIONAL 4" RS CONDUIT AS SPARE
- (6) 3/4"x 10'-0" COPPER CLAD GROUND RODS. INTERCONNECT GROUND RODS, STRUCTURAL STEEL, AND EQUIPMENT GROUND PADS AND ENCLOSURE WITH #10 BSD COPPER.
- (7) SWITCH SHALL BE FUSIBLE TYPE. FUSED WITH BUSSMAN KRP-C-1600 AMP. SWITCH TO BE PROVIDED WITH ZERO SEQUENCE GROUND FAULT CIRCUIT PROTECTION.
- (8) CONCRETE PAD AS DETAILED.
- (9) SERVICE CONDUITS BY THIS CONTRACTOR, CABLE BY PNM. SEE SHEET #35 FOR CONCRETE ENCASED DUCT DETAIL.
- (10) TRANSFORMER TO BE RATED 1000 KVA WITH DUAL VOLTAGE PRIMARY (2400/4160Y & 7200/12470Y) AND 277/480Y SECONDARY. SEE SPECIFICATIONS.
- (11) 4-4" CONDUITS EACH CONTAINING 3- 600 MCM THW CONDUCTORS + 1- 500 MCM (GROUND) TO EACH "MCC". INSTALL 2 ADDITIONAL 4" CONDUIT SPARES.
- (12) CONNECT GROUND BUSES WITH 500 MCM THW AND EXTEND TO COUNTERPOISE.
- (13) 2#8 THW IN 3/4" C.
- (14) 15 KVA DRY TYPE TRANSFORMER, 480V, 1Ø PRIMARY AND 120/240V, 1Ø, 3 WIRE SECONDARY WITH 2- 5Ø FCBN TAPS.
- (15) 3#4 THW + 1#8 GROUND IN 1-1/4" CONDUIT.
- (16) MOTOR CIRCUIT PROTECTOR (MCP) MAGNETIC TRIP ONLY CIRCUIT BREAKER. SIZE AS REQUIRED FOR MOTOR CONNECTED.
- (17) FOR MCC UNITS INDICATED AS CAPACITORS, NUMBER IS THE KVAR RATING.
- (18) CONNECT RELAY TO MAIN HORIZONTAL BUSS. FUSE EACH PHASE LEG. EXTEND CONTACTS TO PANEL "CP" ALLEN BRADLEY #8135-V0B 480 VOLT, 3Ø.
- (19) VALUES IN THIS COLUMN ARE AS FOLLOWS: MOTOR CIRCUITS- MAGNETIC TRIP ONLY BREAKER; MAIN SWITCH-FUSIBLE BOLTED PRESSURE SWITCH. ALL OTHERS-THERMAL MAGNETIC BREAKERS.

PANEL SCHEDULE "A"

PANEL DESCRIPTION	CCT NO.	C/B	WIRE	LOAD DESCRIPTION
120/240 V, 1Ø, 3W, 80 AMP MAIN CCT. BRK, SURFACE MOUNTED BOTTOM FEED. 12 TOTAL POLES. GROUND BUS.	1 THRU 6	20A/1P	#12	LIGHTING, RECEPT., MISC.
	7 THRU 12	-----	1 POLE	SPACES



EXTERIOR LIGHTING CONTROL DIAGRAM

SCALE: NONE

PREPARED UNDER THE
DIRECTION OF



REGISTERED PROFESSIONAL
STATE OF
No.
1883
NEW MEXICO
DEAN POWELL

**APPROVED FOR
CONSTRUCTION**

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
RISER DIAGRAMS, SCHEDULES AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A C E - Design			Traffic		
A C E - Hydrology			Water		

DRAWING NO	1572
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SHEET 36 OF 37

SYMBOL LEGEND

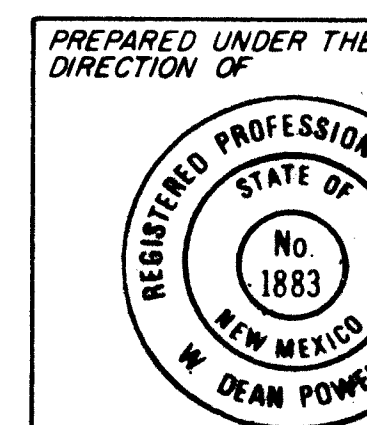
SYMBOL	DESCRIPTION
	BRACKET OUTLET AND FIXTURE.
	FLUORESCENT OUTLET AND FIXTURE.
	SINGLE POLE WALL SWITCH.
	THREE WAY WALL SWITCH.
	PILOT SWITCH.
	THERMAL SWITCH, WEATHERPROOF IF INSTALLED IN WET OR EXTERIOR LOCATIONS.
	JUNCTION BOX FLUSH IN WALL, HEIGHT AS NOTED WITH CONNECTION TO EQUIPMENT.
	DUPLEX CONVENIENCE OUTLET, UP 36" OR AS INDICATED. WP DENOTES WEATHERPROOF.
	THERMOSTAT, UP 48" UNLESS OTHERWISE INDICATED.
	SPECIAL CABINET, TELEPHONE TYPE OR AS NOTED.
	ELECTRICAL PANEL, SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	MOTOR CONNECTION WITH HP INDICATED.
	MOTOR CONTROLLER, SIZE AND POLES FOR MOTOR FURNISHED, IN NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.
	SAFETY SWITCH, TO HAVE POLES AND RATING REQUIRED, TO BE NEMA 3R IF INSTALLED OUTDOORS.
	MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (LESS THAN 1/3 HP.) PROVIDE THERMAL O.L. SWITCH ADJACENT TO ALL MOTORS UNLESS SWITCH IS SHOWN ELSEWHERE ON PLAN.
	PHOTOCCELL LIGHTING CONTROLLER, PRECISION #T-15 MOUNTED ON 1/2" RIGID CONDUIT STUBBED 12" ABOVE ROOF WITH WINDOW FACING NORTH.
	BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED.
	BRANCH CIRCUIT IN WALLS OR UNDER FLOOR WITH CONDUCTORS INDICATED.
	HOME RUN TO PANEL, WITH BRANCH CIRCUIT NUMBERS INDICATED.

KEYED NOTES

- POWER FEED RECEPTACLE AND PLUG FOR 308 HP PUMPS. 200 AMP, 4 POLE WITH TWO 30 AMP RELAY CONTACTS. PYLE NATIONAL #ZRET-7-C28-42SR RECEPTACLE AND #ZPED-#-C28-42PR PLUG.
- CONTROL FEED RECEPTACLE AND PLUG. 10 CONTACT (4-30 AMP AND 6-20 AMP). PYLE NATIONAL #ZRET-4-16-681SN RECEPTACLE AND #ZPEN-#-16-681PN PLUG.
- POWER FEED RECEPTACLE AND PLUG FOR 20 HP SUMP PUMPS. 60 AMP, 4 POLE WITH TWO 30 AMP RELAY CONTACTS. PYLE NATIONAL #ZRET-4-20-43SR RECEPTACLE AND #ZPEK-#-20-43PR PLUG.
- ALL RECEPTABLES AND PLUGS TO HAVE THREADED DUST CAPS. ALL UNITS TO BE WIRED ALIKE TO ALLOW INTERCHANGING OF ANY PUMP. ALL PLUGS TO HAVE 2-10 CONTACTS JUMPERED TOGETHER FOR INTERLOCKING TO CONTROL SYSTEM ALLOWING PUMP TO START ONLY AFTER ALL CONNECTIONS ARE MADE.
- BLOCK-OUT SHOWN FOR BID PURPOSES. CONTRACTOR SHALL CO-ORDINATE EXACT SIZE AND LOCATION OF BLOCK-OUTS WITH EQUIPMENT FURNISHED.

CABLE SUPPORT HOOK DETAIL

SCALE: NONE



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

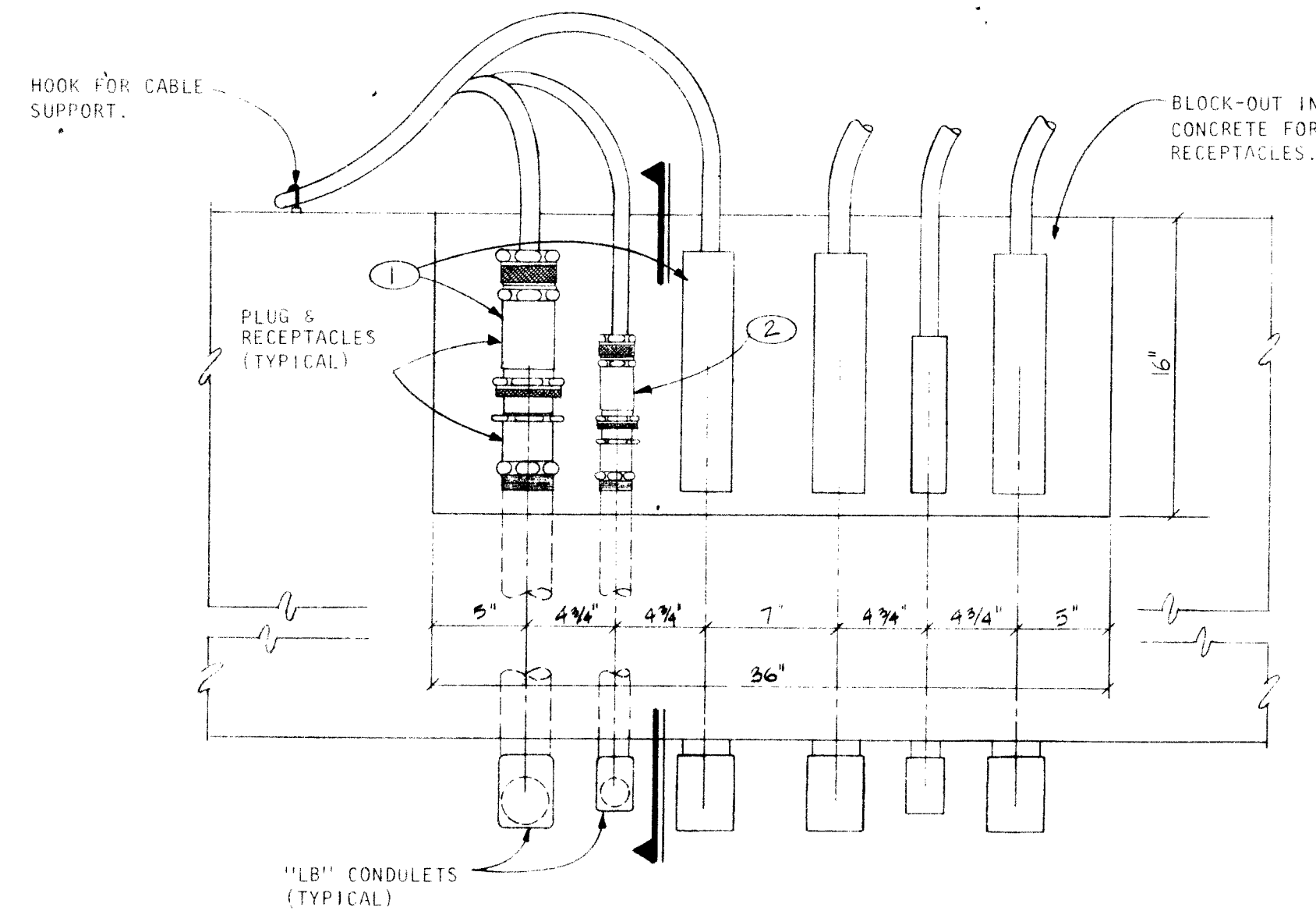
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
RECEPTABLES DETAILS &
TRANSFORMER ENCLOSURE

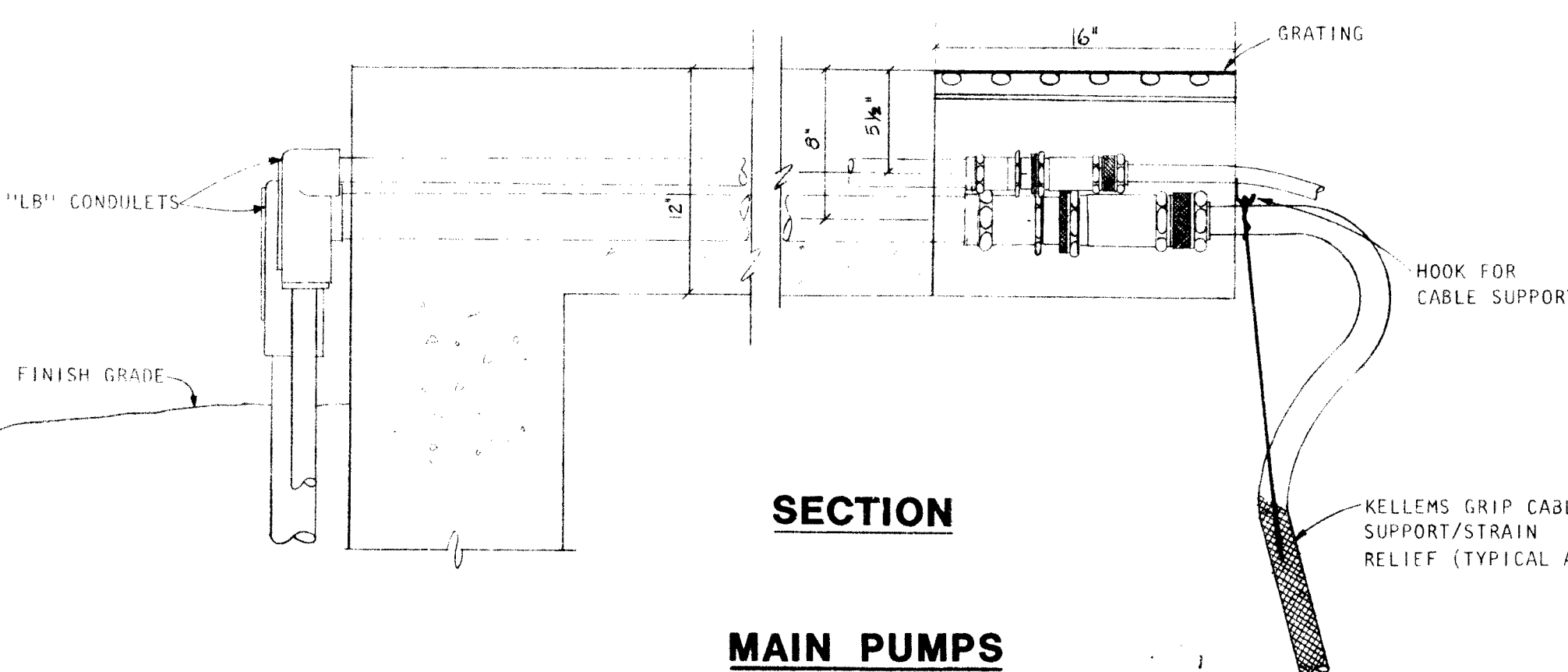
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		

DRAWING NO. 1572

SHEET 37 OF 37

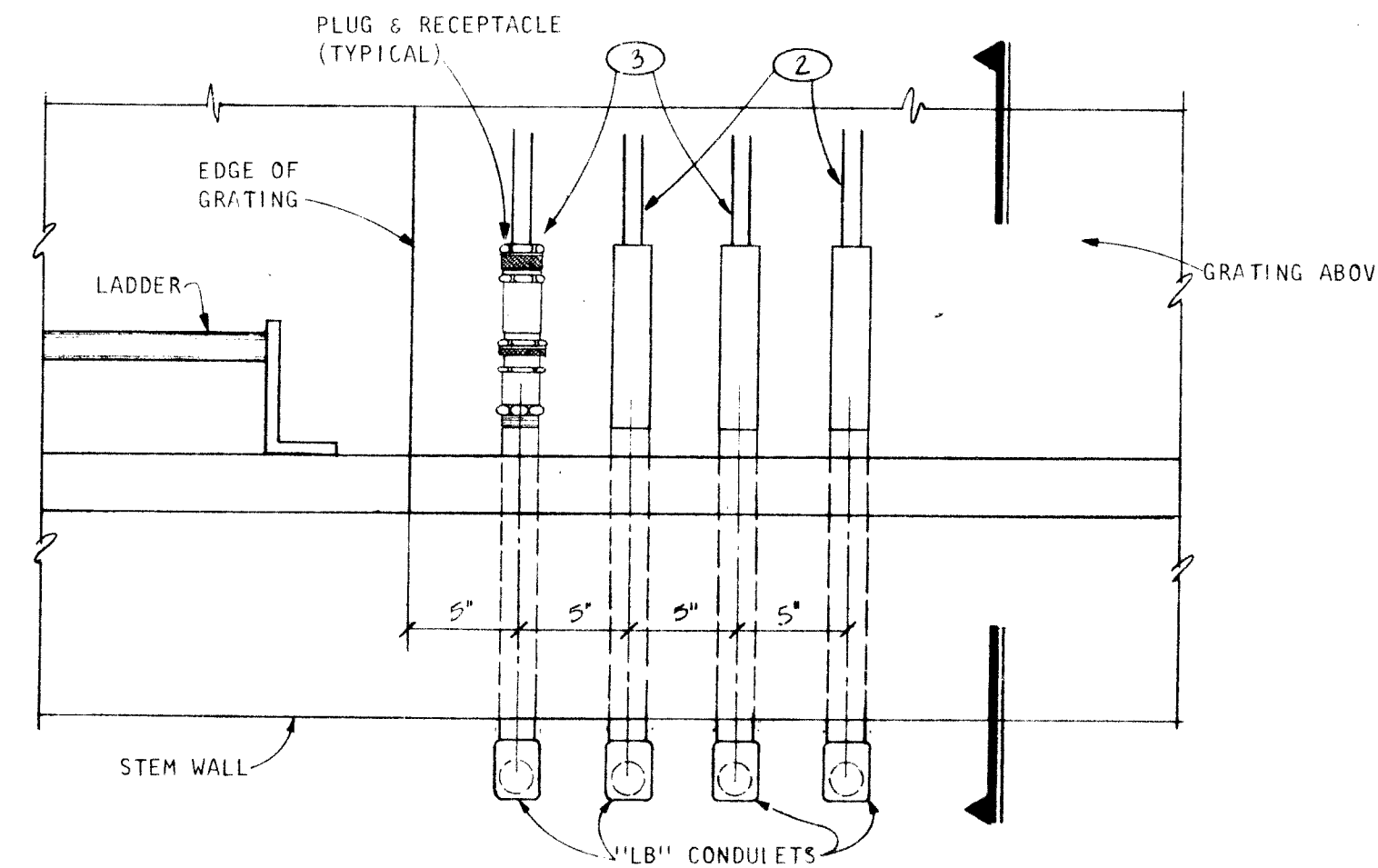


PLAN

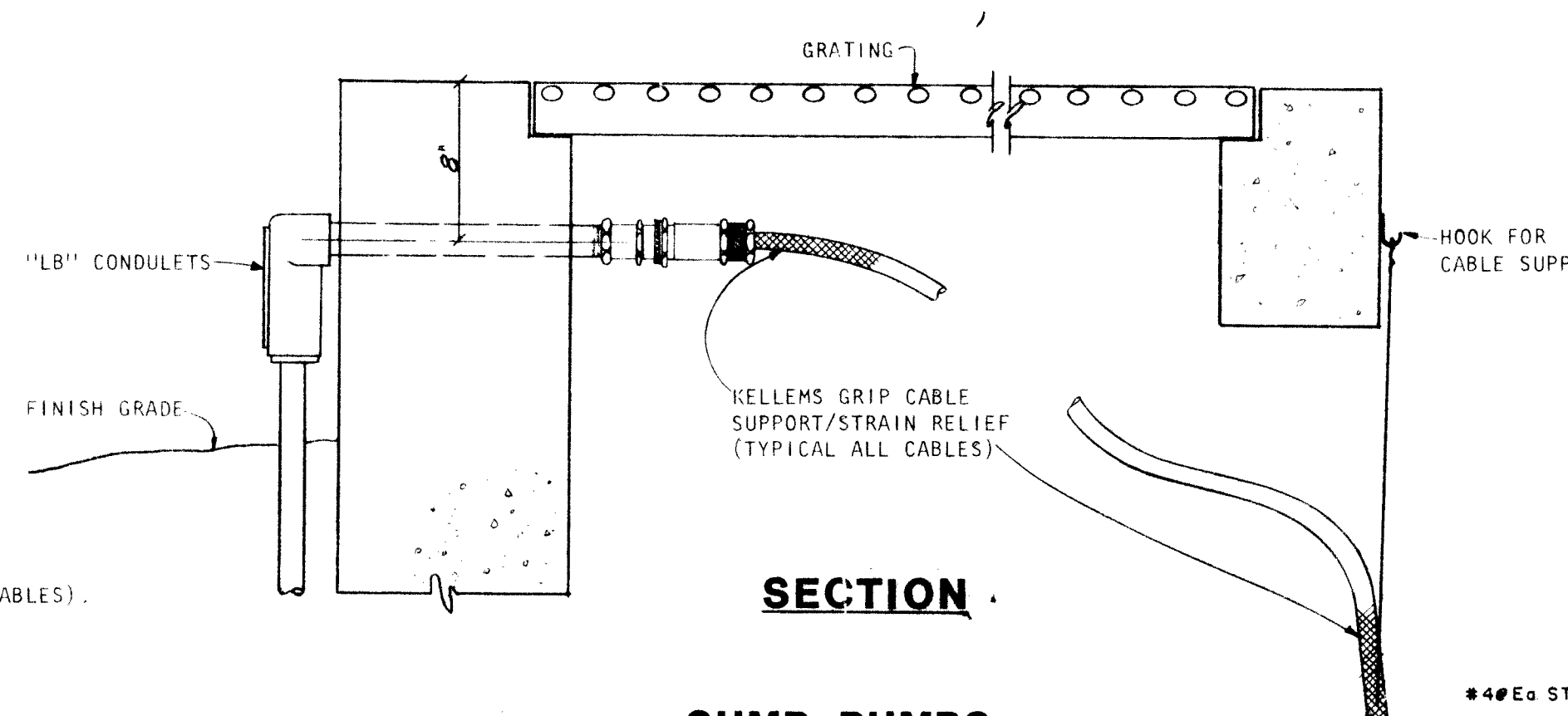


SECTION

MAIN PUMPS



PLAN



SECTION

SUMP PUMPS

RECEPTABLES DETAILS

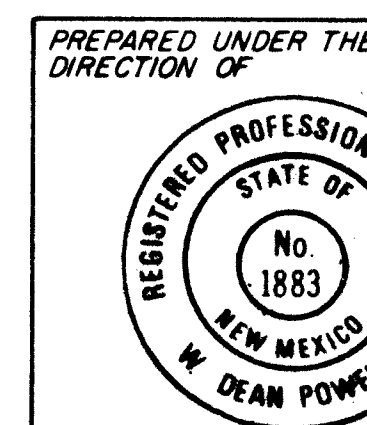
SCALE: 1-1/2" = 1'-0"

SEC. A

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

CABLE SUPPORT HOOK DETAIL

SCALE: NONE



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ALCALDE STORM WATER PUMPING STATION AND COLLECTION SYSTEM
RECEPTABLES DETAILS &
TRANSFORMER ENCLOSURE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		

DRAWING NO. 1572

SHEET 37 OF 37

ELECTRICAL EQUIPMENT PAD DETAIL

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



PARTIAL SITE PLAN

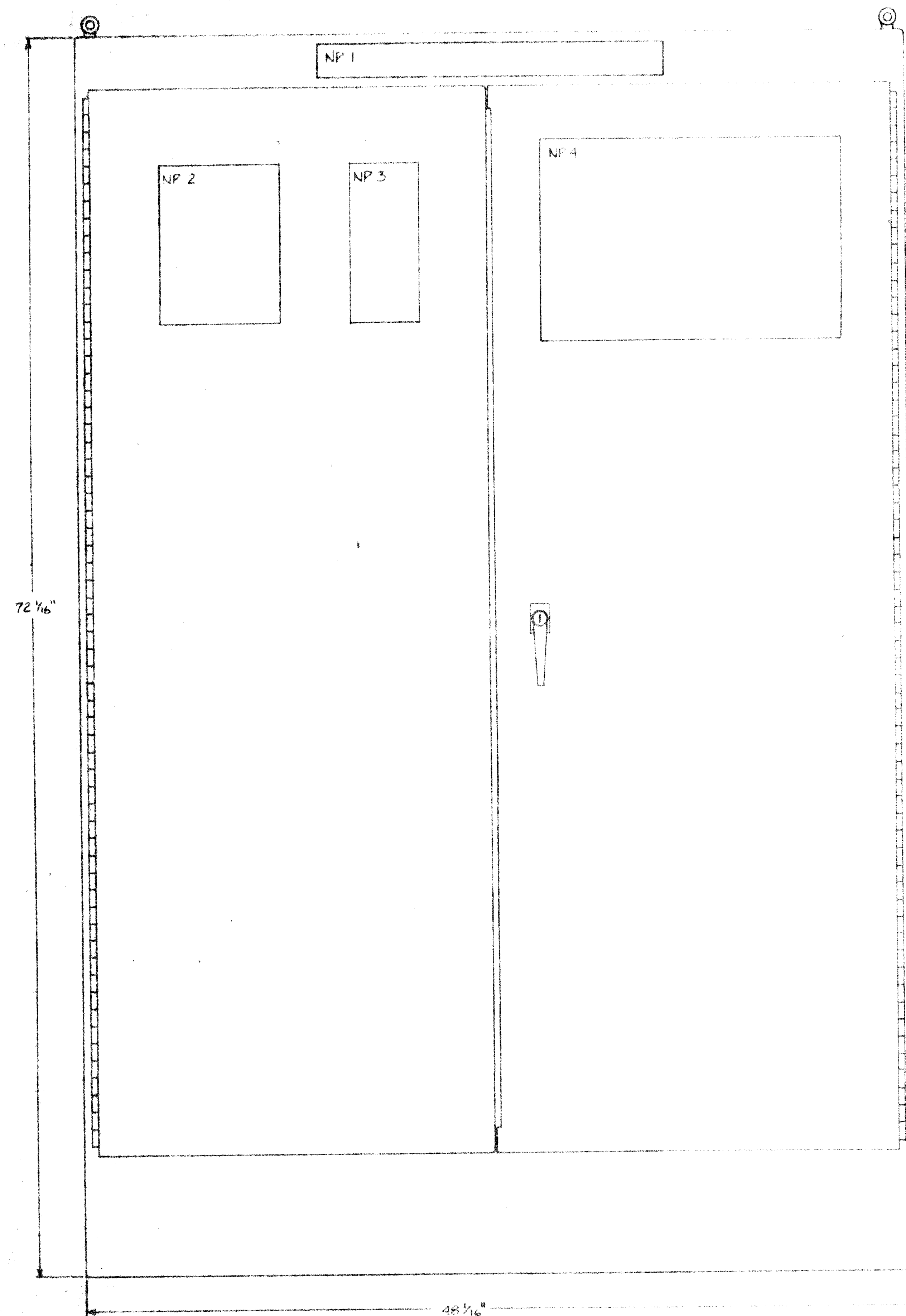
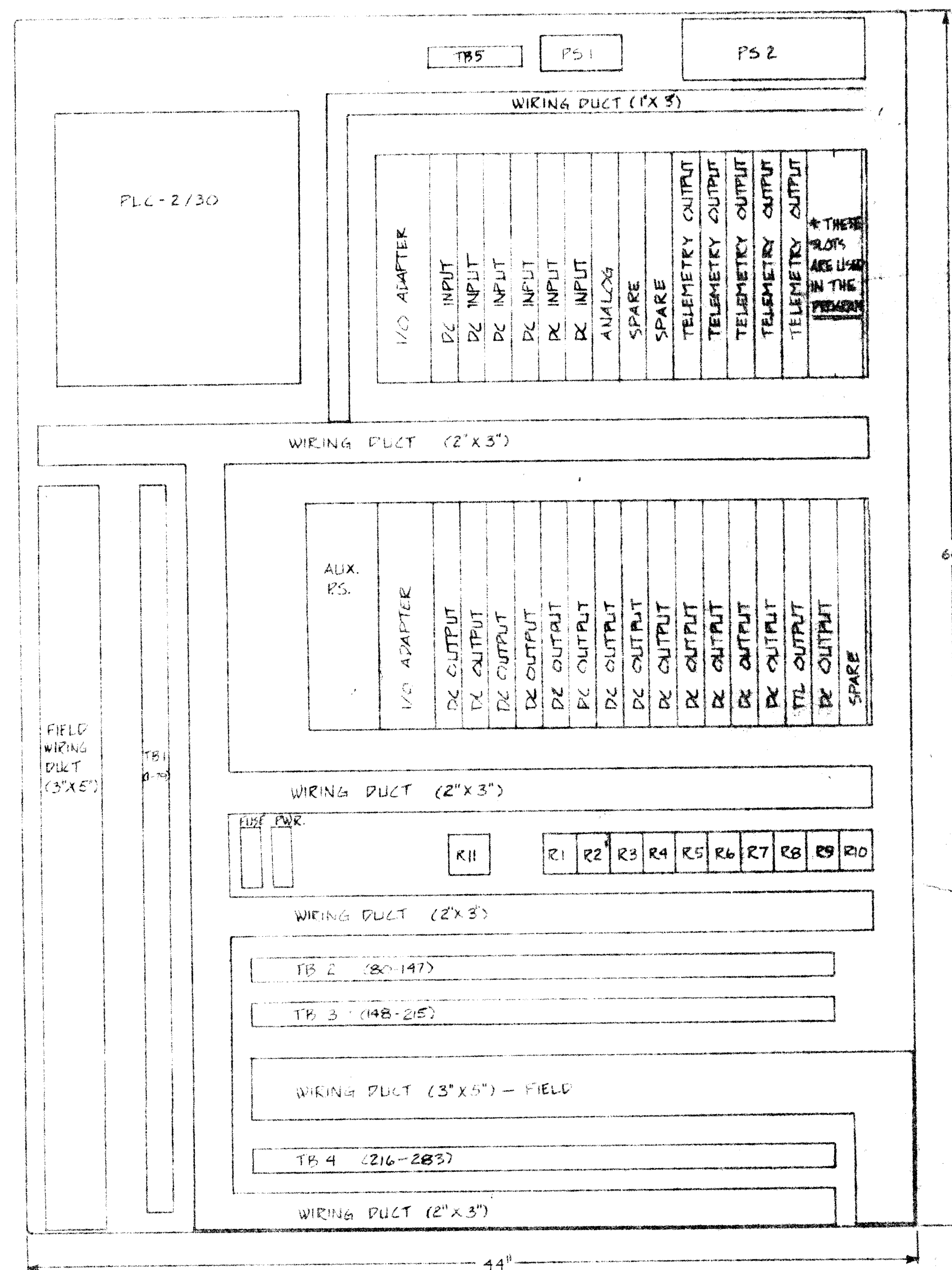
SCALE: 1" = 30'-0"

SEE SHEET 19 FOR DUCT LOCATION

RECORD DRAWING
AUG 1 1984

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PROJECT NO



NOTE - SURGE PROTECTION PROVIDED BY TERMINAL MOUNTED MOV.

26 15720186

1572

SUBPANEL

PANEL

BFANM SYSTEMS DIVISION
ALBUQUERQUE, NM

14 APR 83

Scale 4:1

CONTROL PANEL LAYOUT

20 FEB 84 - SUBMITTAL CHANGES

REVISIONS

CITY OF ALBUQUERQUE, NM

83004-420