

- 8. "HA" HAS PIU-1, 2, 3.
"HE" HAS ALL OTHERS.
- 7. PREFERRED ACCESS CABLE ROUTING IS THROUGH
R/N #10, 30, 31, 32, 37 & 39 WITHOUT GOING THROUGH
R/N #33. CABLE IS TO BE IN THE SAME CONDUIT
AS "B" COAX.
- 6. CABLES SHOULD BE A SINGLE LENGTH
OF WIRE; SPLICES AND COUPLINGS ARE
NOT RECOMMENDED.
- 5. ALL COAXIAL CONNECTOR FOULINGS MUST
BE ELECTRICALLY INSULATED WITH
SLEEVING.
- 4. ALL DATA HIWAY CABLE IS BELDEN
P/N 8213 (AWG #14).
- 3. ALL COAX CABLES ARE TERMINATED
IN CONNECTOR P/N C-KCA03.
- 2. DATA HIWAY TEE PLUG CONNECTOR
ASSY: C-KCA02.
- 1. DATA HIWAY TERMINATOR PLUG: C-KCA02.

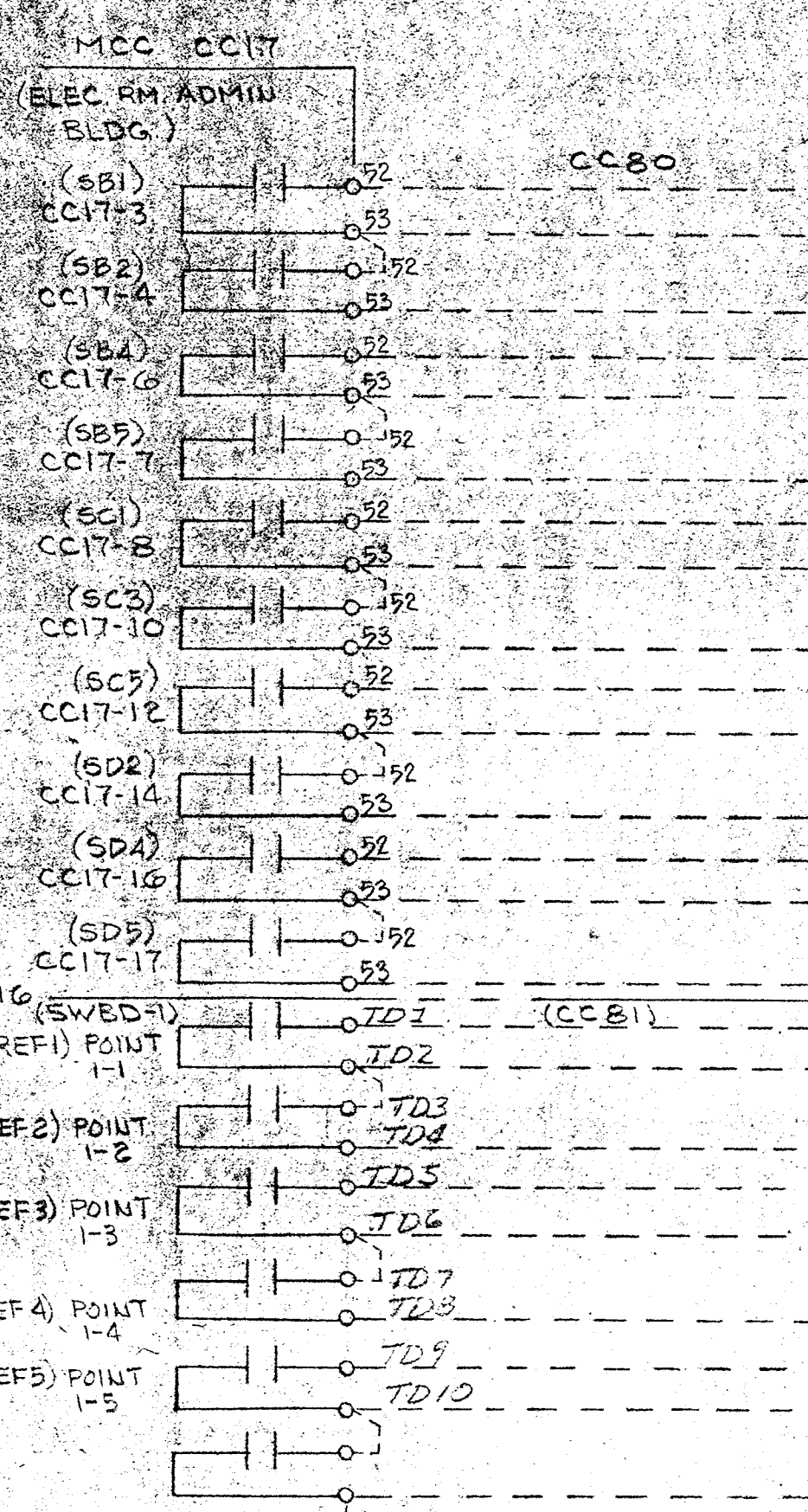
D	7/16/82	AS INSTALLED	CC
C	2/10/82	ENGR. CHG.	CC
B	1/15/82	CONV. CHG.	CC
A	9/79	ENGR. CHG. - ADD SHT 2	CC
REV.	DATE	DESCRIPTION	CHK. APPD.

HONEYWELL INC.
VALLEY Forge, PA.

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

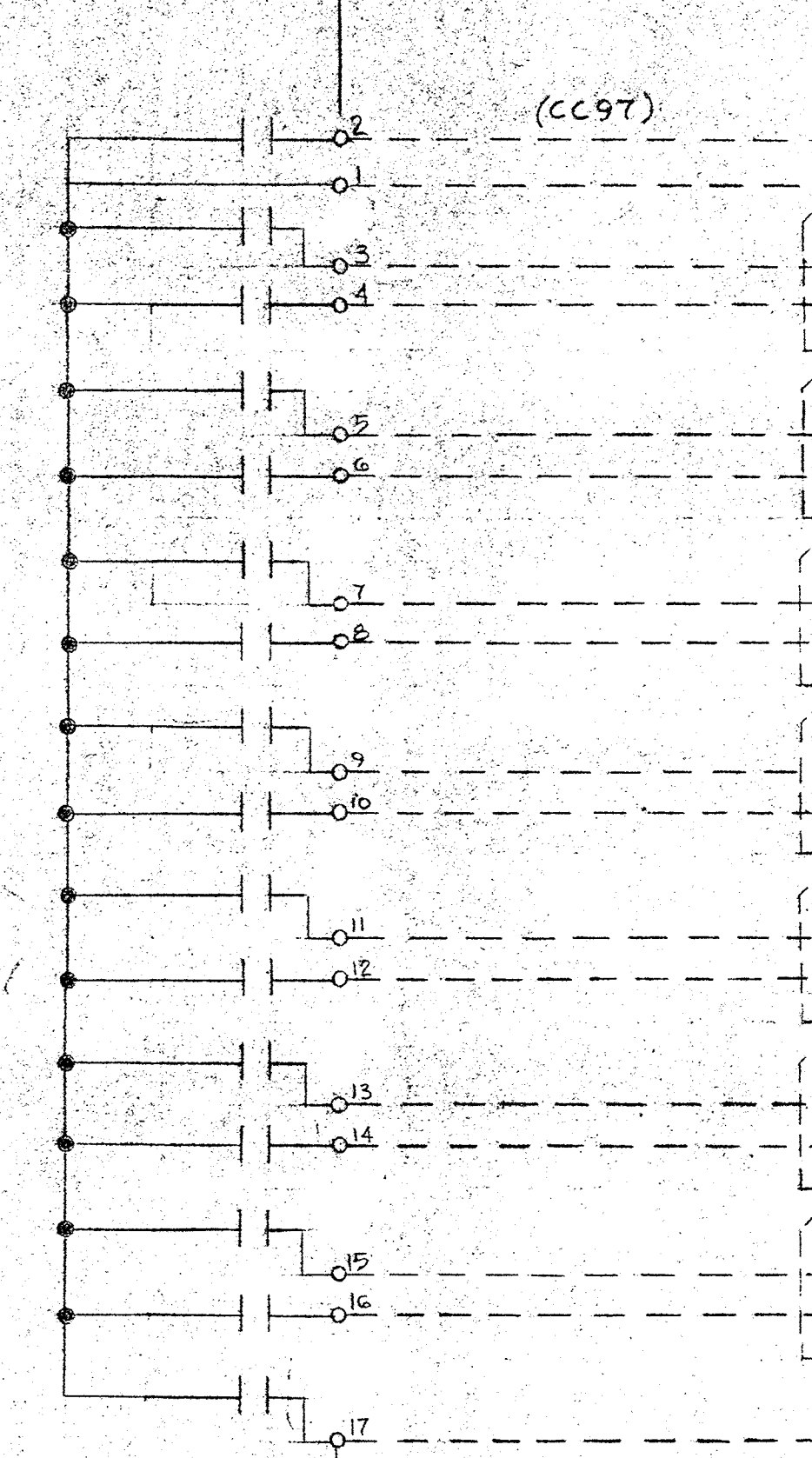
DRAFTER	DATE	SAVAGE WASTE WATER TREATMENT PLANT
CHK.		HONEYWELL CONTRACT #4 CONTRAST 50842
ENGR.	304/197	DATA HIWAY - FIELD ONLY
SCALE		DWG. NO. 9162-28342-DH-1 SHT. 1 OF 2



TERM	TAG	NAME
1		ELECTRICAL ROOM UNIT HEATER #1
2		SIGNAL COMMON
3		ELECTRICAL ROOM UNIT HEATER #2
4		MECHANICAL ROOM UNIT HEATER #1
5		SIGNAL COMMON
6		MECHANICAL ROOM UNIT HEATER #2
7		GARAGE UNIT HEATER #1
8		SIGNAL COMMON
9		GARAGE UNIT HEATER #2
10		SIGNAL COMMON
11		STORAGE RECEIVING UNIT HEATER #1
12		SIGNAL COMMON
13		STORAGE RECEIVING UNIT HEATER #2
14		NEWS BUILDING #2 ROOF VENTILATOR
15		SIGNAL COMMON
16		LABORATORY ROOF VENTILATOR
17		MAIN BREAKER #1 OPEN - SWBD
18		SIGNAL COMMON
19		MAIN BREAKER #2 OPEN - SWBD
20		TIE BREAKER CLOSED - SWBD
21		SIGNAL COMMON
22		NO VOLTAGE SERVICE FOR #1 - SWBD
23		NO VOLTAGE SERVICE FOR #2 - SWBD
24		SIGNAL COMMON

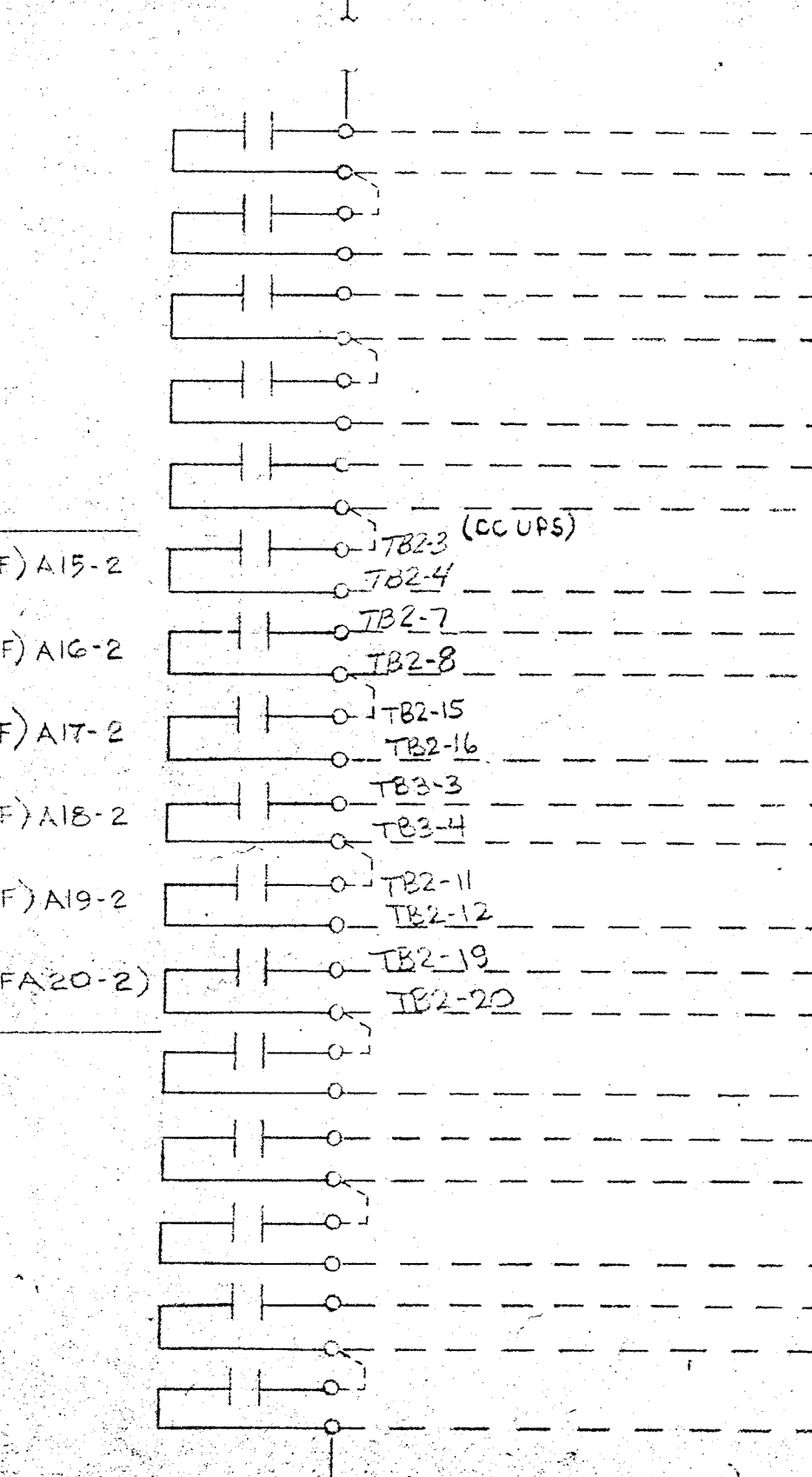
CABINET NO. HLI
CFA NO. 1
TERM BLOCK NO. 22
CARD TYPE PX1A21

SIMPLEX FIRE ALARM
REMOTE STATION
RECEIVING CONTROL
(ADMIN. BLDG)



TERM	TAG	NAME
1		BLOWER BUILDING #1 PS
2		SIGNAL COMMON
3		SLUDGE OXIDATION BLDG
4		AERATION BASIN WEST
5		SIGNAL COMMON
6		AERATION BASIN EAST
7		DEWATERING BLDG
8		SIGNAL COMMON
9		FILTRATION & DISINFECTION BLDG
10		MAINTENANCE BLDG
11		SIGNAL COMMON
12		ADMINISTRATION BLDG
13		PHOSPHORUS BLDG
14		SIGNAL COMMON
15		(SPARE) GRIT Bldg
16		(SPARE) Screen Bldg
17		SIGNAL COMMON
18		(SPARE)
19		(SPARE)
20		SIGNAL COMMON
21		(SPARE)
22		(SPARE)
23		SIGNAL COMMON
24		(SPARE)

CABINET NO. HLI
CFA NO. 1
TERM BLOCK NO. 1
CARD TYPE PX1A21

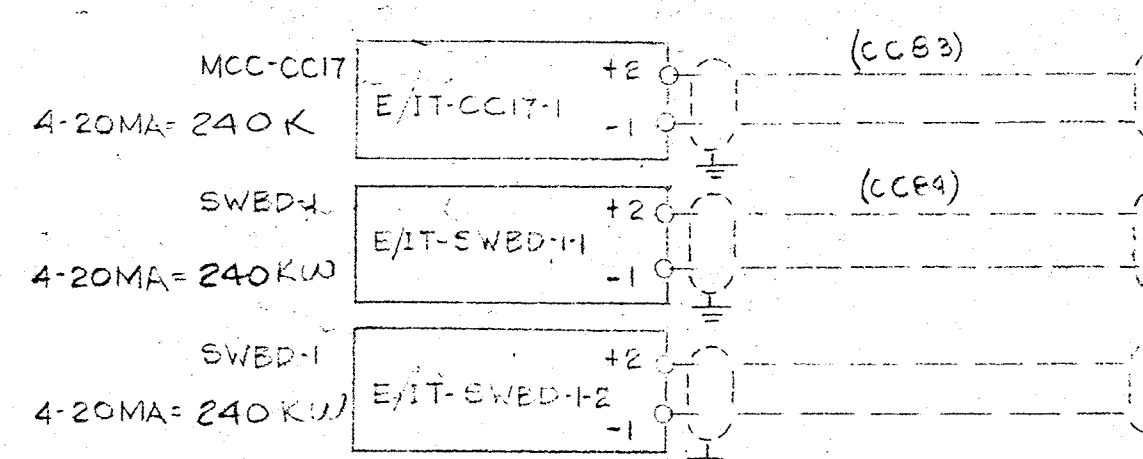


TERM	TAG	NAME
1		
2		
3		
4		
5		
6		
7		
8		SIGNAL COMMON
9		AC FAILURE RECTIFIER UPS SYSTEM
10		NO CHARGE RECTIFIER UPS SYSTEM
11		SIGNAL COMMON
12		GROUND D.C. CIRCUITRY UPS SYSTEM
13		A.C. OUTLET FAILURE INVERTER UPS SYSTEM
14		SIGNAL COMMON
15		STANDBY POSITION INPUT TRANSFER SW.
16		BYPASS POSITION LOAD TRANSFER SW.
17		
18		
19		
20		
21		
22		
23		
24		

CABINET NO. HLI
CFA NO. 1
TERM BLOCK NO. 3
CARD TYPE PX1A21

(LOWER TERMINAL STRIP ASSY)

CABINET NO. HLI
CFA NO. 1
TERM BLOCK NO. 1
CARD TYPE PX1A21



TERM	TAG	NAME
1		
2		
3		
4		
5		
6		
7		
8		MOTOR CONTROL CENTER-CC17 FEEDER NO.1
9		MOTOR CONTROL CENTER-CC17 FEEDER NO.1
10		
11		SWITCHBOARD SWBD-1 FEEDER NO.1
12		SWITCHBOARD SWBD-1 FEEDER NO.1
13		
14		SWITCHBOARD SWBD-1 FEEDER NO.2
15		SWITCHBOARD SWBD-1 FEEDER NO.2
16		
17		
18		
19		
20		
21		
22		
23		
24		

1. AC POWER WIRING IS AS SHOWN ON DWG. 916D-28342-PD2, SHEET 1

LEGEND
 F. OLD WIRING
 HONEYWELL
 (BY HONEYWELL)
 3" C. OF PANEL TERMINAL
 PNEUMATIC CONNECTION

DEVICES (NOT BY HONEYWELL)
 20 PSIG. AIR SUPPLY

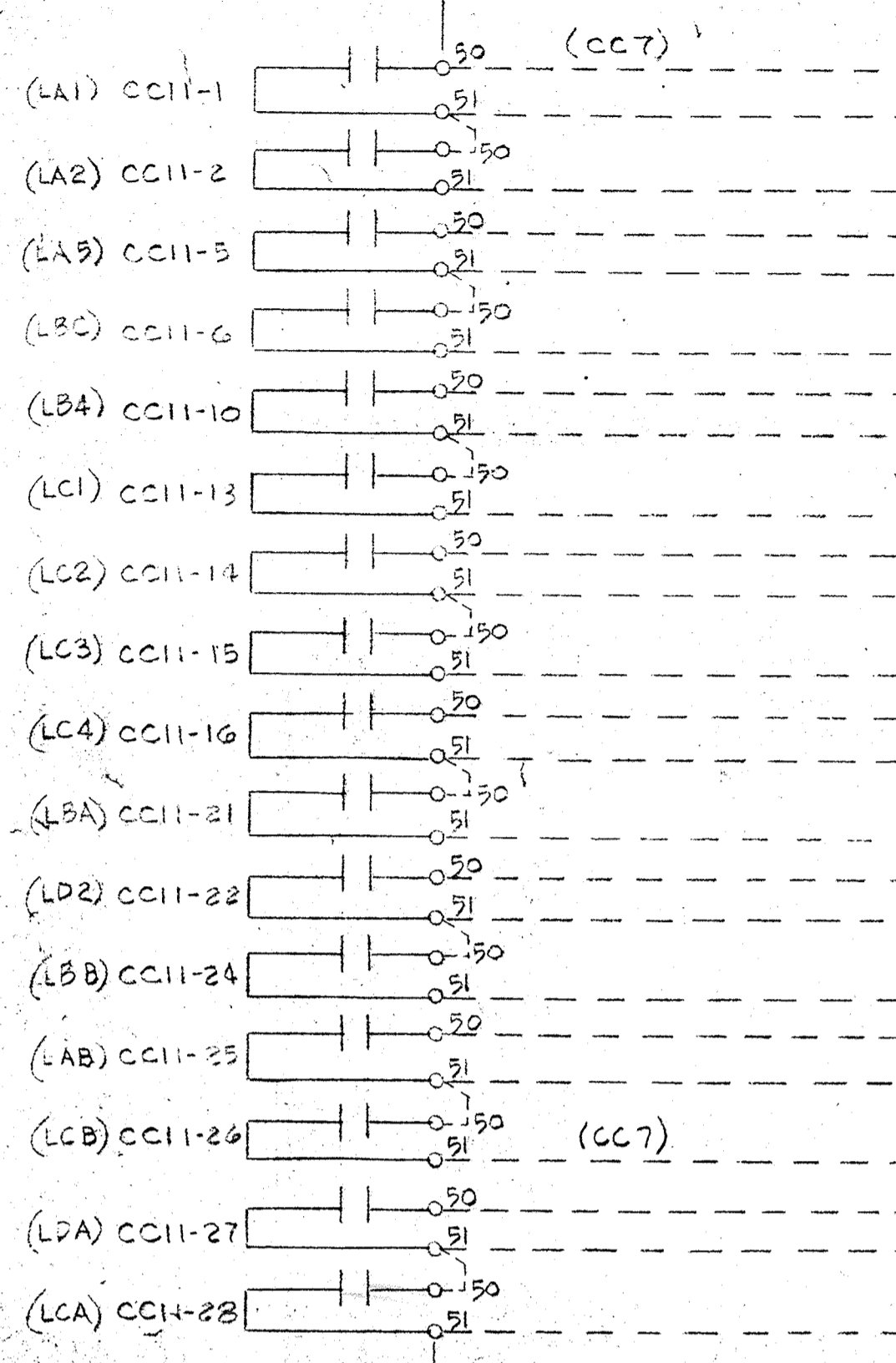
DATE: 9/25/82
 DRAFTER: STEVE SMITH
 CHK: [Signature]
 ENGR: [Signature]
 SCALE: 1/8"

DATE: 9/25/82
 DESCRIPTION: SWIRAGE WASTEWATER TREATMENT PLANT
 HOWARD EDLITY, MARYLENE
 ADDITION NO. 4 CONTRACT 505-3
 DWG. NO. 916D-28342-PIU-1

D	7/16/82	AS INSTALLED		EE
C	7/20/82	EMC CHG		AL DE
B	2/25/82	NO CHANGE		DE
A	8/9/82	ENG. CHANGE		SUB DE
1	9/28/82	BLG UPDATE		MMR
REV.	DATE	DESCRIPTION	CHK	APPD.

HONEYWELL INC.
VALLEY FORGE, PA.

MCC CC11
(FIL CONT. BLDG)

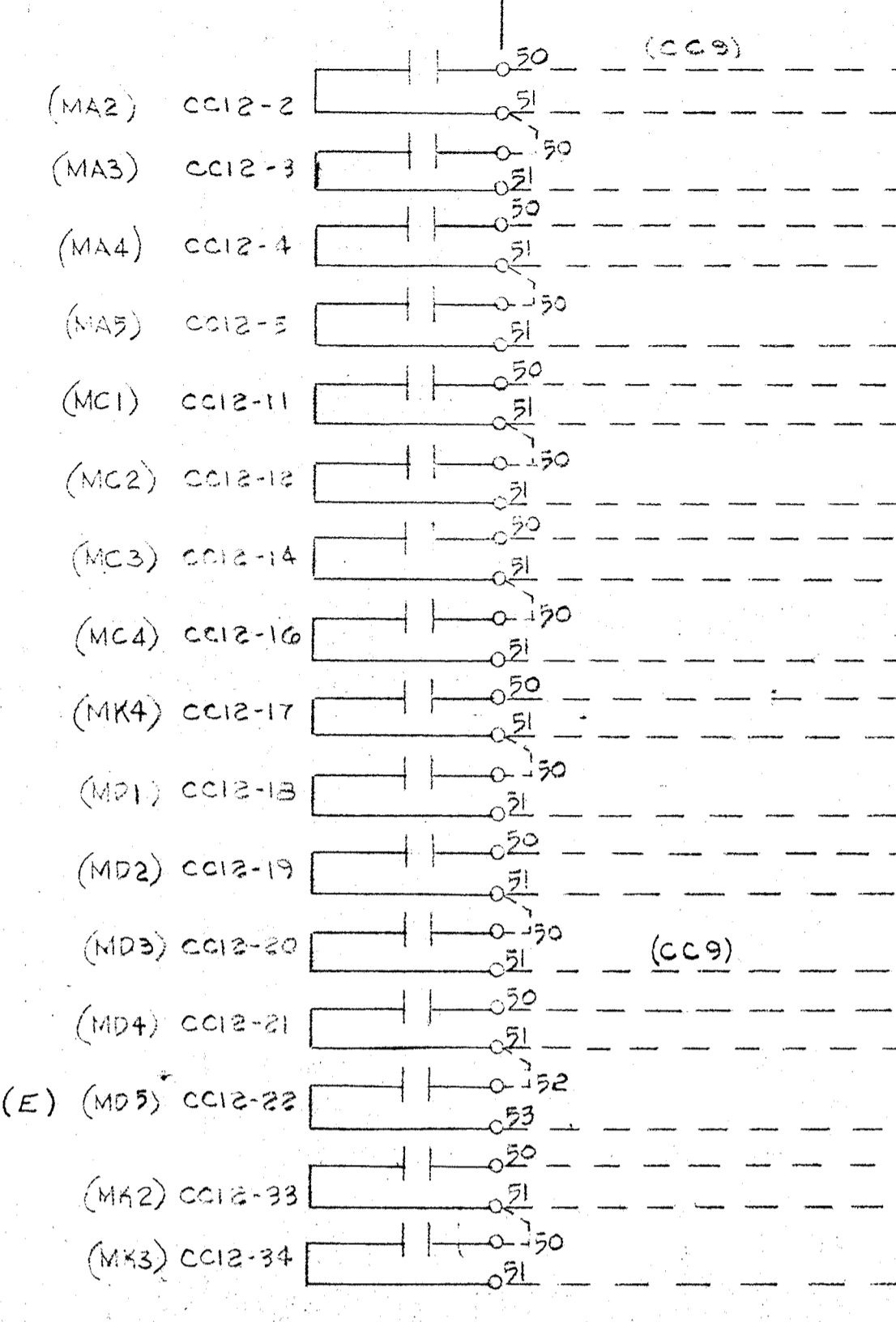


TERM	TAG	NAME
1		FLOCCULATOR #1A
2		SIGNAL COMMON
3		FLOCCULATOR #2A
4		FLOCCULATOR #5A
5		SIGNAL COMMON
6		FLOCCULATOR #6A
7		RAPID MIXER #1 FLOCCULATOR INFLUENT
8		SIGNAL COMMON
9		MTRM ROOM UNIT HEATER #1
10		ALUM PUMP #1
11		SIGNAL COMMON
12		ALUM ROOM VENT FAN #1
13		INJECTOR WATER PUMP #1
14		SIGNAL COMMON
15		SUBSTATION VAULT VENT FAN
16		EFFLUENT PUMP #1
17		SIGNAL COMMON
18		PUMP ROOM RADIANT HEATERS #1, 2, 3
19		PUMP ROOM RADIANT HEATERS #4, 5, 6
20		SIGNAL COMMON
21		EFFLUENT PUMP #2
22		PUMP ROOM VENT FAN #1
23		SIGNAL COMMON
24		PUMP ROOM VENT FAN #2

CABINET NO. HL3
CFA NO. 1
TERM BLOCK NO. 1
CARD TYPE PXID21

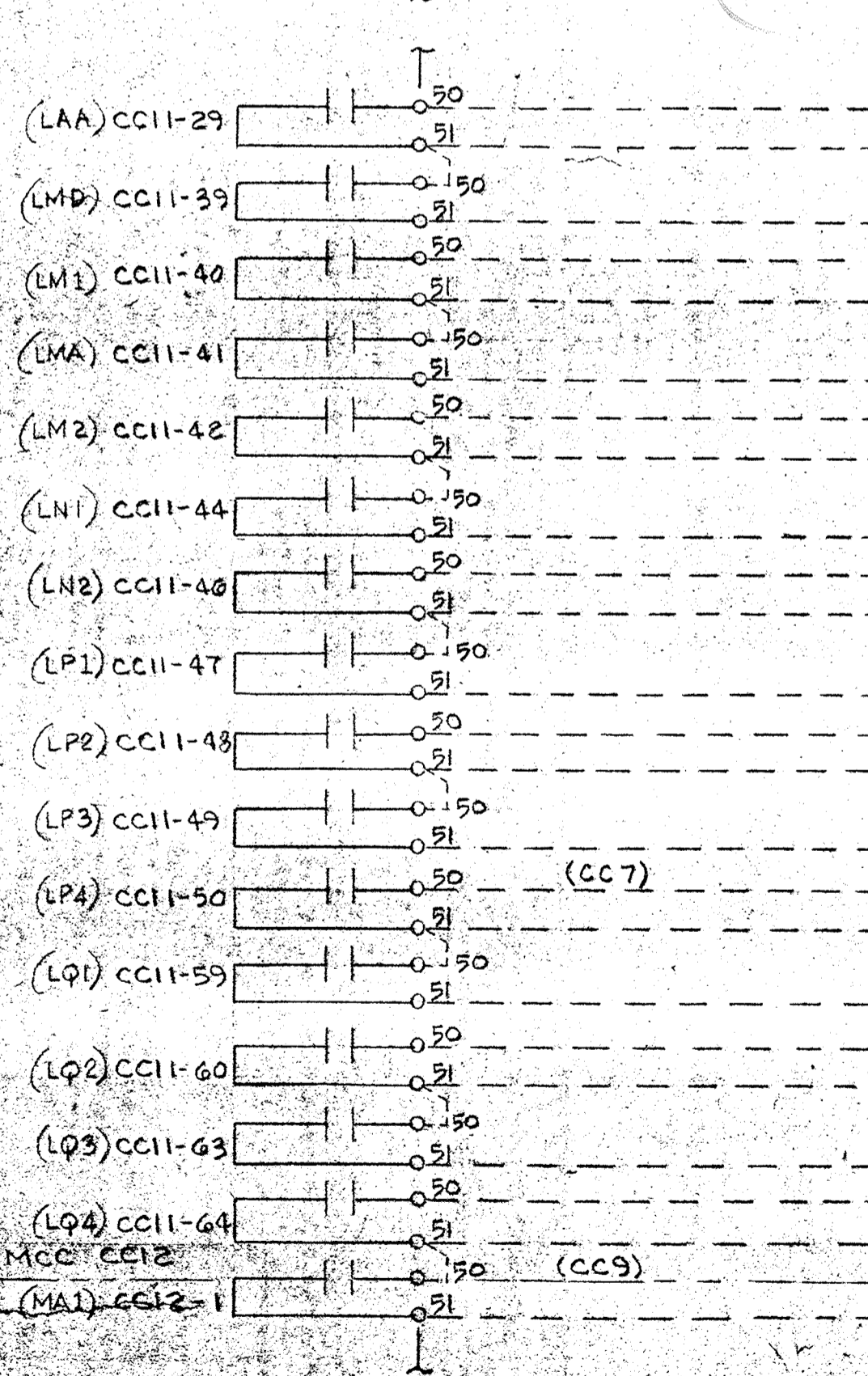
(E-NAME CHG.)

MCC CC12



TERM	TAG	NAME
1		CORRIDOR DISINFECTION BLDG UNIT HEATER
2		SIGNAL COMMON
3		36" METER VAULT SAMPLE PUMP #3
4		CHLORINATOR ROOM UNIT HEATER #1
5		SIGNAL COMMON
6		CHLORINATOR ROOM UNIT HEATER #1
7		CHLORINE STORAGE VENT FAN #1
8		SIGNAL COMMON
9		CHLORINE STORAGE UNIT HEATER #1&3
10		36" METER VAULT SAMPLE PUMP #1
11		SIGNAL COMMON
12		CONTROL ROOM VENT FAN
13		CHLORINE STORAGE VENT FAN #2
14		SIGNAL COMMON
15		CHLORINE STORAGE UNIT HEATER #2&4
16		CHLORINE STORAGE UNIT HEATER #5
17		SIGNAL COMMON
18		36" METER VAULT SAMPLE PUMP #1
19		36" METER VAULT SAMPLE PUMP #2
20		SIGNAL COMMON
21		D.O. BLOWER #1
22		36" METER VAULT SAMPLE PUMP #6
23		SIGNAL COMMON
24		CHLORINATOR ROOM UNIT HEATER #2

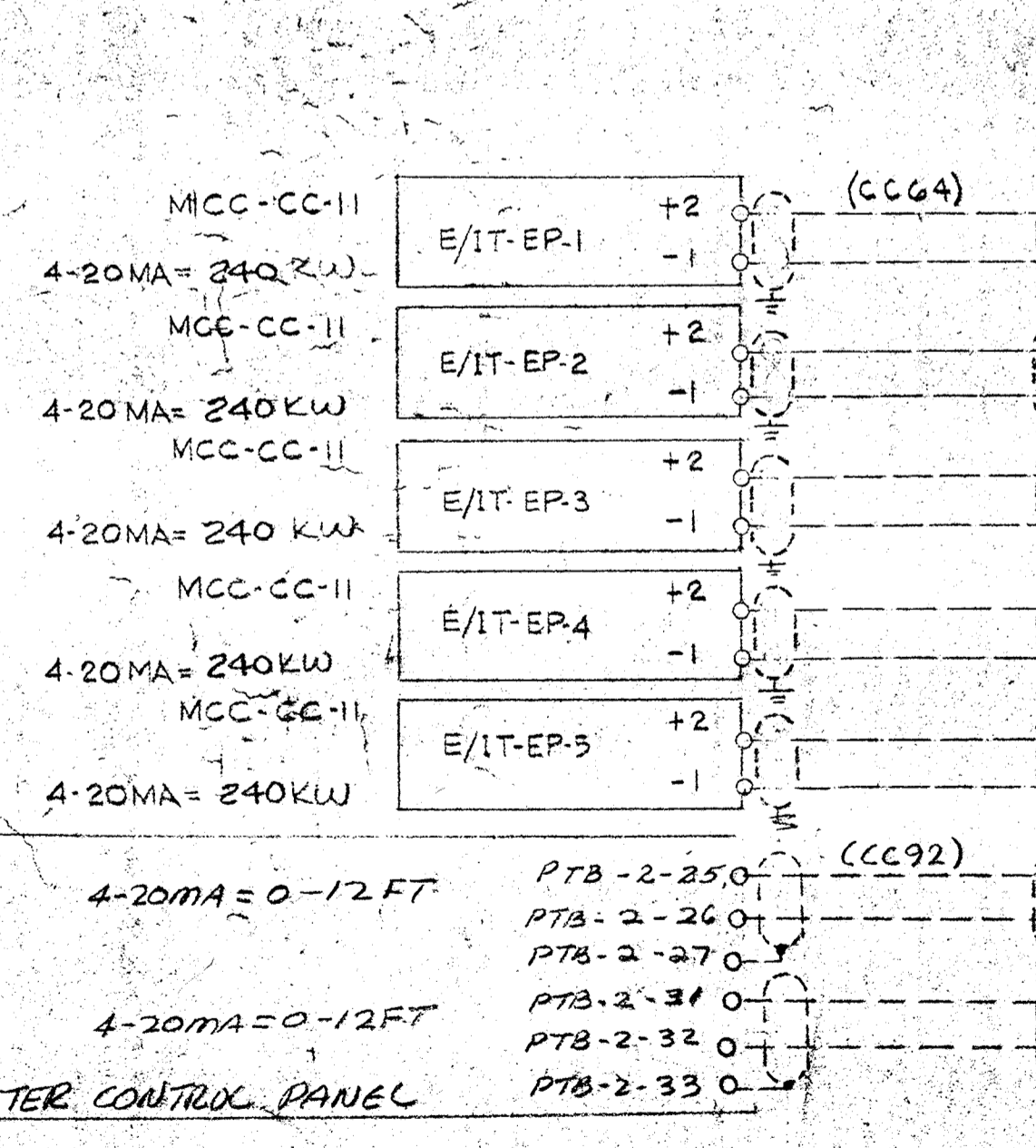
CABINET NO. HL3
CFA NO. 1
TERM BLOCK NO. 3
CARD TYPE PXID21



TERM	TAG	NAME
1		AIR COMPRESSOR #1
2		SIGNAL COMMON
3		PUMP ROOM VENT FAN #1
4		PUMP ROOM VENT FAN #1
5		SIGNAL COMMON
6		AIR COMPRESSOR #2
7		EFFLUENT PUMP #4
8		SIGNAL COMMON
9		PUMP ROOM RADIANT HEATER #7, 8
10		EFFLUENT PUMP #5
11		SIGNAL COMMON
12		ALUM ROOM UNIT HEATER #2
13		ALUM PUMP #2
14		SIGNAL COMMON
15		ALUM ROOM VENT FAN #2
16		INJECTOR WATER PUMP #2
17		SIGNAL COMMON
18		FLOCCULATOR #1B
19		FLOCCULATOR #2B
20		SIGNAL COMMON
21		FLOCCULATOR #5B
22		FLOCCULATOR #6B
23		SIGNAL COMMON
24		CONTROL ROOM UNIT HEATER #1&2

CABINET NO. HL3
CFA NO. 1
TERM BLOCK NO. 2
CARD TYPE PXID21

(E-NAME CHG.)



TERM	TAG	NAME
1		EFFLUENT PUMP NO1
2		EFFLUENT PUMP NO1
3		EFFLUENT PUMP NO2
4		EFFLUENT PUMP NO2
5		EFFLUENT PUMP NO3 (FUTURE)
6		EFFLUENT PUMP NO3 (FUTURE)
7		EFFLUENT PUMP NO4
8		EFFLUENT PUMP NO4
9		EFFLUENT PUMP NO5
10		EFFLUENT PUMP NO5
11		EFFLUENT PUMP NO4
12		EFFLUENT PUMP NO4
13		EFFLUENT PUMP NO5
14		EFFLUENT PUMP NO5
15		EFFLUENT PUMP NO5
16		EFFLUENT PUMP NO5
17		ALUM TANK #1 LEVEL
18		ALUM TANK #1 LEVEL
19		ALUM TANK #2 LEVEL
20		ALUM TANK #2 LEVEL
21		ALUM TANK #2 LEVEL
22		ALUM TANK #2 LEVEL
23		ALUM TANK #2 LEVEL
24		ALUM TANK #2 LEVEL

CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 1
CARD TYPE PXIAZ1

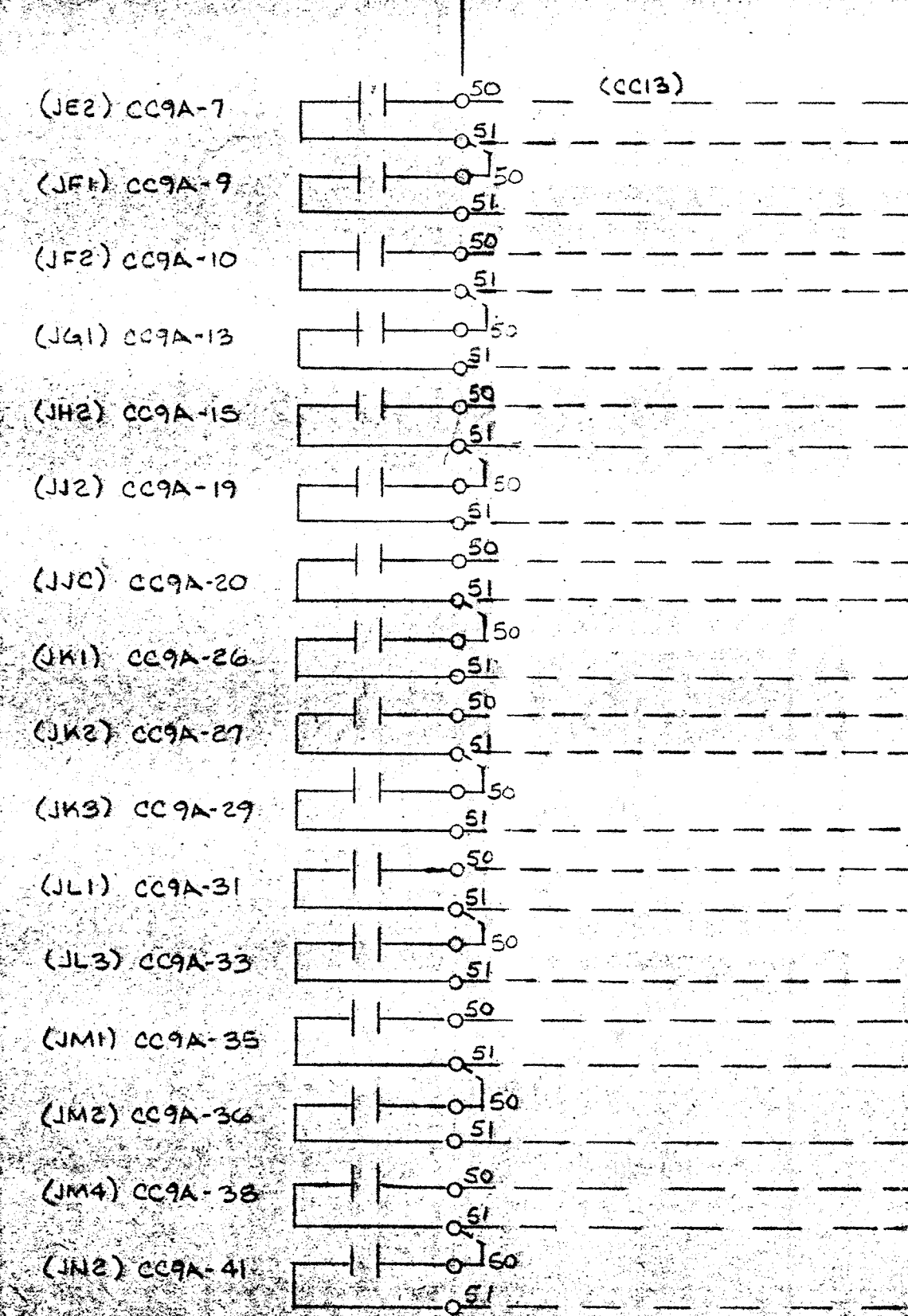
9 JAN 83

REV	DATE	DESCRIPTION	CHK.	APPD.
F	7/1/82	AS INSTALLED		
E	8/23/82	ENGR. CHG.		
D	8/27/82	CHGS-SEE NOTES		
C	8/28/82	ENGR. CHG.		
B	8/28/82	CON. CHG.		
A	8/27/82	ENGR. CHG.'S		
I	8/28/82	ENGR. UPDATE		

LEGEND
 --- FIELD WIRING (NOT BY HONEYWELL)
 --- WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION
 ⊗ DEVICES (NOT BY HONEYWELL)
 ◀ 20 PSIG. AIR SUPPLY

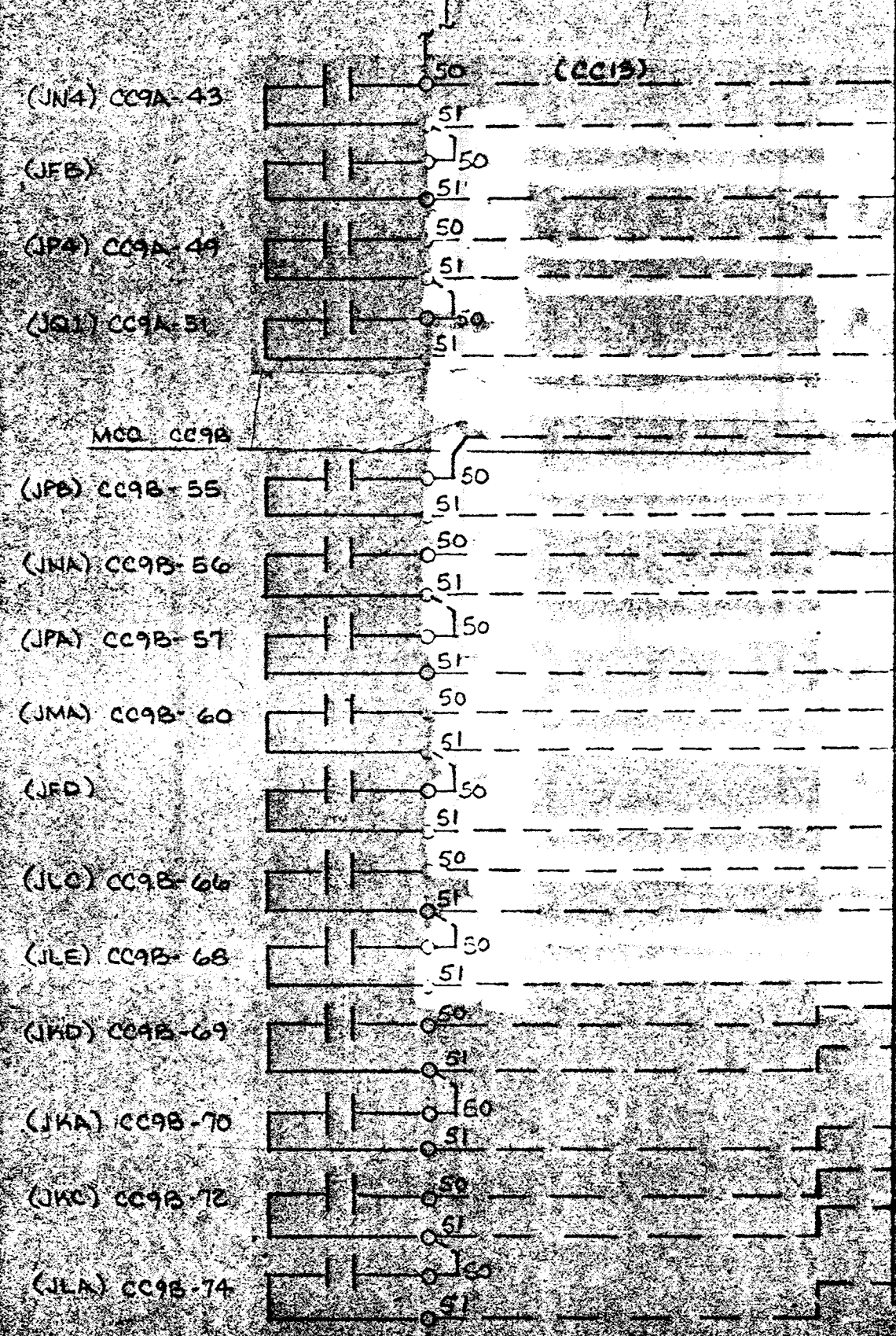
DATE: 8/26/82
 DRAFTER: STEVE SMITH
 CHK.: [Signature]
 ENGR.: [Signature]
 SCALE: 1/8"
 HONEYWELL INC. VALLEY FORGE, PA.
 SAVAGE WASTEWATER TREATMENT PLANT
 HOWARD COUNTY, MARYLAND
 ADDITION NO. 4 CONTRACT 805-3
 DWG. NO. 516D-28342-PIU-2 SHEET 1 OF 7

MCC CC9A



TERM	TAG	NAME
1.		DEWATERING BLDG WASH WATER P.P. NO.1
2.		SIGNAL COMMON
3.		DIGESTER PIPE GALLERY RADIANT HEATERS
4.		DEWATERING BLDG BASEMENT RADIANT HEATERS
5.		SIGNAL COMMON
6.		DEWATERING BLDG HYDRAULIC POWER DRIVE NO.1
7.		FLOT THICK ROOM RADIANT HEATERS
8.		SIGNAL COMMON
9.		DEWATERING BLDG VAC FILTER ROOM UNIT HEATER #1B
10.		FLOT THICKENER AREA RECYCLE PUMP NO.3
11.		SIGNAL COMMON
12.		DEWATERING BLDG BELT CONVEYOR #1
13.		DEWATERING BLDG CHEM AREA RADIANT HEATERS
14.		SIGNAL COMMON
15.		DEWATERING BLDG POLYMER "A" SUPPLY PUMP #1
16.		DEWATERING BLDG POLYMER "B" SUPPLY PUMP #1
17.		SIGNAL COMMON
18.		DEWATERING BLDG FeCl ₃ SUPPLY PUMP #1
19.		DEWATERING BLDG POLYMER "A" FEED PUMP #1
20.		SIGNAL COMMON
21.		DEWATERING BLDG POLYMER "B" FEED PUMP #1
22.		DEWATERING BLDG POLYMER FEED PUMP #1
23.		SIGNAL COMMON
24.		DEWATERING BLDG POLYMER "A" CHEM MIXER #1

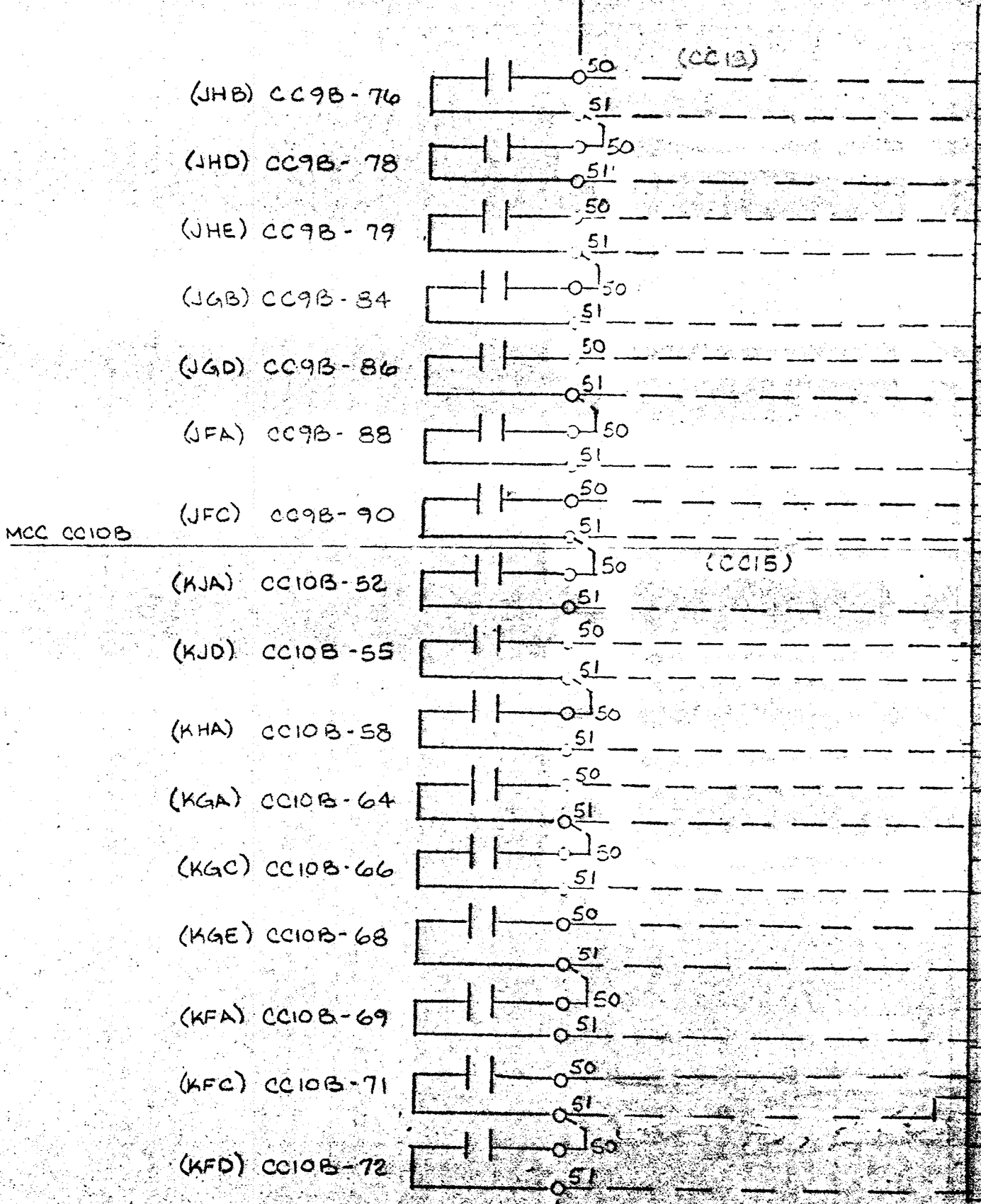
CABINET NO. HL4
 CFA NO. 1
 TERM BLOCK NO. 6
 CARD TYPE PXID21



TERM	TAG	NAME
1.		DEWATERING BLDG POLYMER "B" CHEM MIXER #1
2.		SIGNAL COMMON
3.		GRAVITY THICKENER DRIVE NO.3
4.		DEWATERING BLDG CHEM AREA EXH FAN #2
5.		SIGNAL COMMON
6.		DEWATERING BLDG MECH ROOM DUCT HEATER #1
7.		(SPARE)
8.		SIGNAL COMMON
9.		FLOT THICK ROOM ROOF VENT #12
10.		DEWATERING BLDG VAC FILTER ROOM ROOF VENT #13
11.		SIGNAL COMMON
12.		DEWATERING BLDG TOILET & LOCKER ROOM ROOF VENT #14
13.		DEWATERING BLDG MECH ROOM CENTRIFUGAL FAN #2
14.		SIGNAL COMMON
15.		DILUTING WATER PUMP NO.3
16.		DEWATERING BLDG FLUSHING WATER PUMP #1
17.		SIGNAL COMMON
18.		FLOT THICK ROOM CENTRIFUGAL FAN #1
19.		FLOT THICKENER AREA RECYCLE PUMP #1
20.		SIGNAL COMMON
21.		FLOT THICKENER AREA RE-AERATION PUMP #1
22.		DEWATERING BLDG VAC FILTERATE RM CENTRIFUGAL FAN #1
23.		SIGNAL COMMON
24.		DEWATERING BLDG AIR COMPRESSOR #1

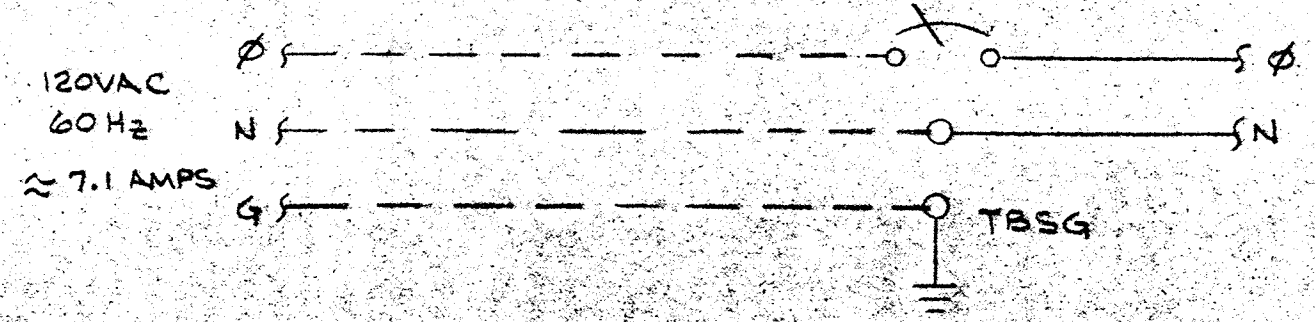
CABINET NO. HL4
 CFA NO. 1
 TERM BLOCK NO. 6
 CARD TYPE PXID21

MCC CC18



TERM	TAG	NAME
1.		FLOT THICKENER AREA THICK SLUDGE PUMP #1
2.		SIGNAL COMMON
3.		FLOT THICKENER AREA TOP COLLECTOR DRIVE #1
4.		FLOT THICKENER AREA BOTTOM COLLECTOR DRIVE #1
5.		SIGNAL COMMON
6.		DIGESTER PIPE GALLERY SCUM PUMP #1
7.		PROCESS OVERFLOW RETURN PUMP #1
8.		SIGNAL COMMON
9.		GRAVITY THICKENER DRIVE #1
10.		DILUTING WATER PUMP #1
11.		SIGNAL COMMON
12.		DILUTING WATER PUMP #2
13.		PROCESS OVERFLOW RETURN PUMP #2
14.		SIGNAL COMMON
15.		GRAVITY THICKENER DRIVE #2
16.		DIGESTER PIPE GALLERY DIGESTER SLUDGE PUMP #2
17.		SIGNAL COMMON
18.		DIGESTER PIPE GALLERY SCUM PUMP #2
19.		FLOT THICK ROOM RADIANT HEATERS
20.		SIGNAL COMMON
21.		FLOT THICKENER AREA THICK SLUDGE PUMP #2
22.		FLOT THICKENER AREA TOP COLLECTOR DRIVE #2
23.		SIGNAL COMMON
24.		FLOT THICKENER AREA BOTTOM COLLECTOR DRIVE #2

CABINET NO. HL4
 CFA NO. 1
 TERM BLOCK NO. 7
 CARD TYPE PXID21



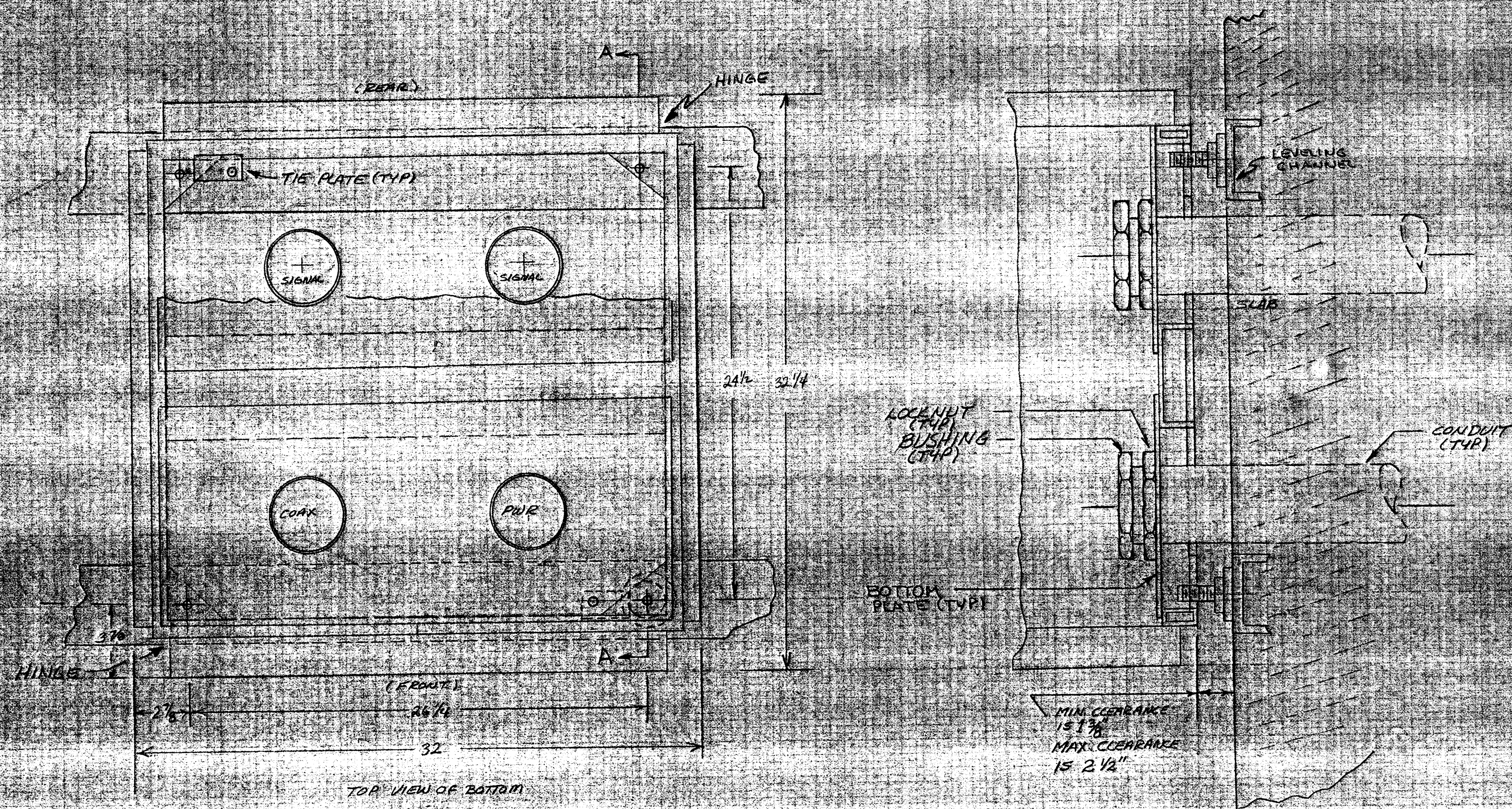
LEGEND
 FIELD WIRING (NOT BY HONEYWELL)
 WIRING (BY HONEYWELL)
 BACK OF PANEL TERMINAL
 PNEUMATIC CONNECTION
 DEVICES (NOT BY HONEYWELL)
 20 PSIG AIR SUPPLY

REV	DATE	DESCRIPTION	CHK	APP'D
E	7/16/88	AS INSTALLED		CE
D	7/16/88	ADD SH-101		CB
C	7/16/88	ENGR CHG-REDRAWN		CB

HONEYWELL INC
 VALLEY FORGE, PA

DRAWN	DATE	DESCRIPTION
STEVE SMITH		SAVING WASTE WATER TREATMENT PLANT
ENGR.		HOWARD GOULT, M.A.S.E. AND ADDITION NO. 4 CONTRACT 505-S
SCALE		DWG NO. 1100-223-42-011-3 SHEET 10/20

NOTE:
 DISTANCE FROM CENTER OF LEVELING FOOT TO THE
 CENTER OF THE LEVELING FOOT OF AN ADJACENT
 CABINET IS 3 1/2"



2. NO WIRE ENTRY IS POSSIBLE IN THE BATTERY BACK-UP
 AREA. USE PLATES ONLY.
 1. TYPICAL FOR ALL PIU'S EXCEPT PIU-1 WHICH DOES
 NOT REQUIRE TIE-DOWN.

FRONT PLATE - 27 1/2 x 12 1/2
 FRONT & REAR PLATE - 26 5/8 x 12 1/2
 TIE PLATE SIZE 3 x 1 1/2, 5/8 DIA HOLE
 TWO PER CABINET

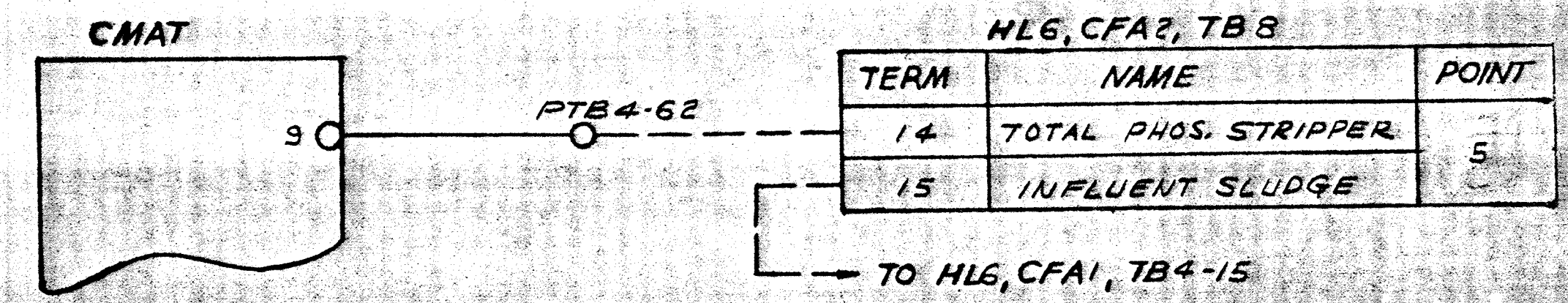
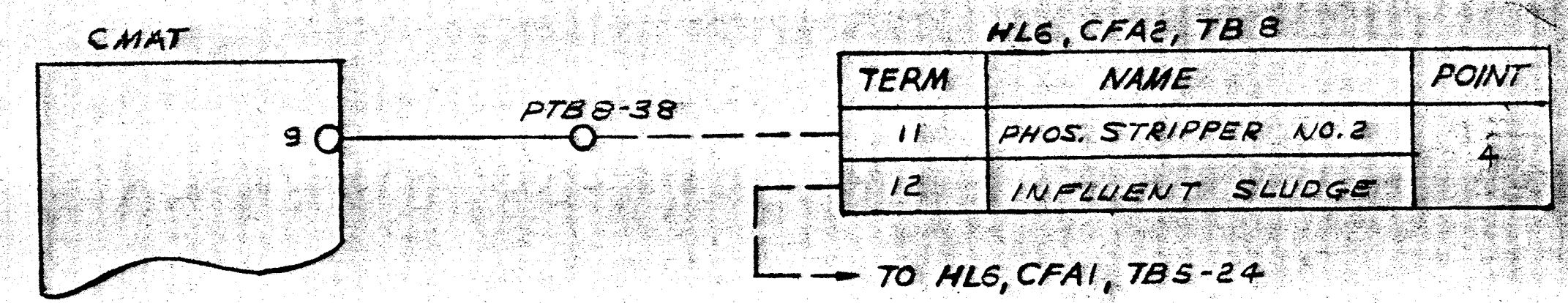
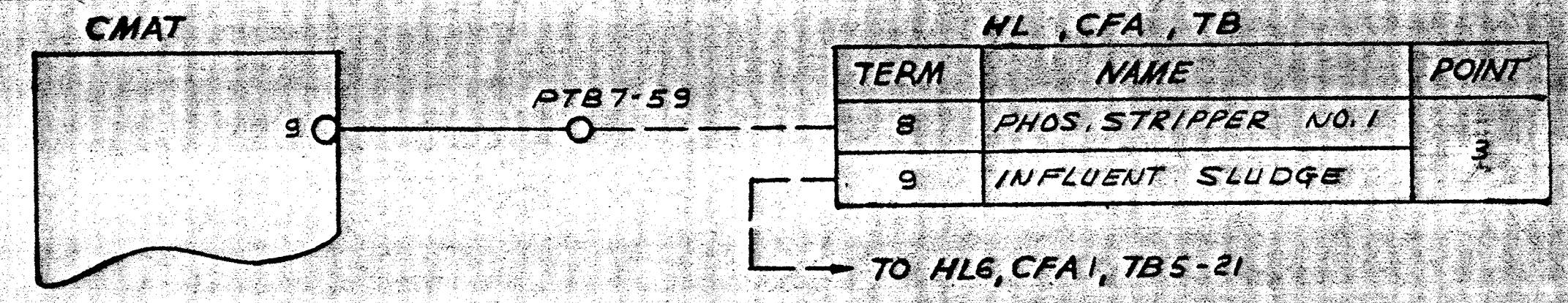
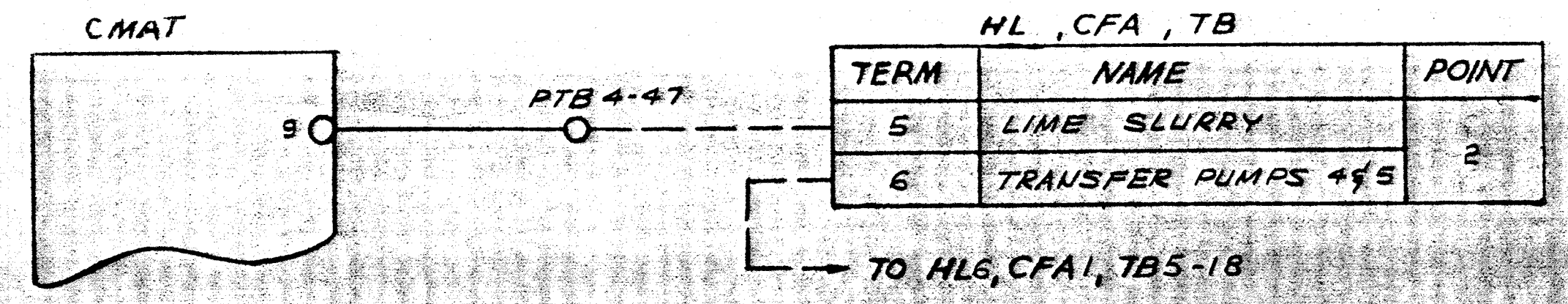
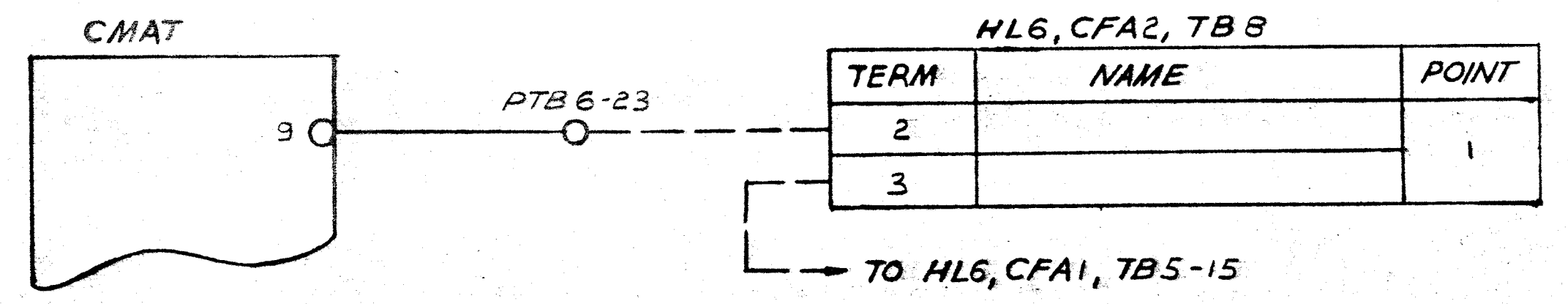
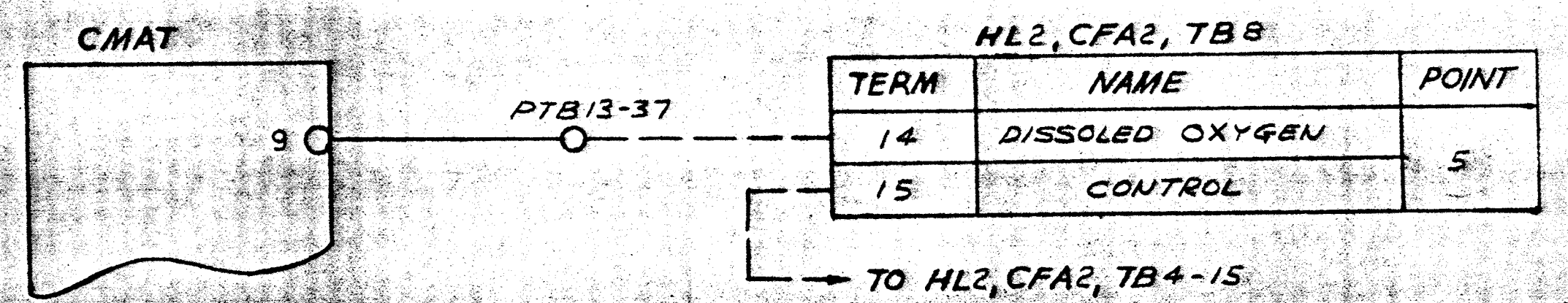
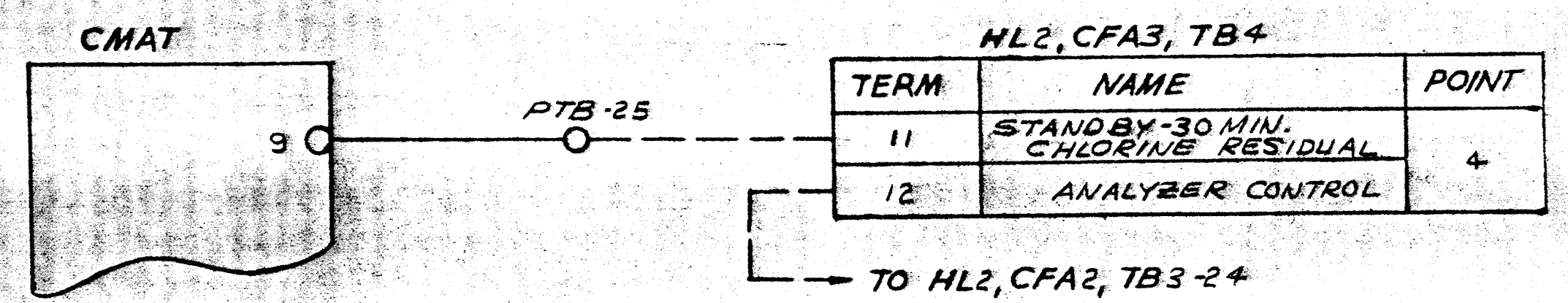
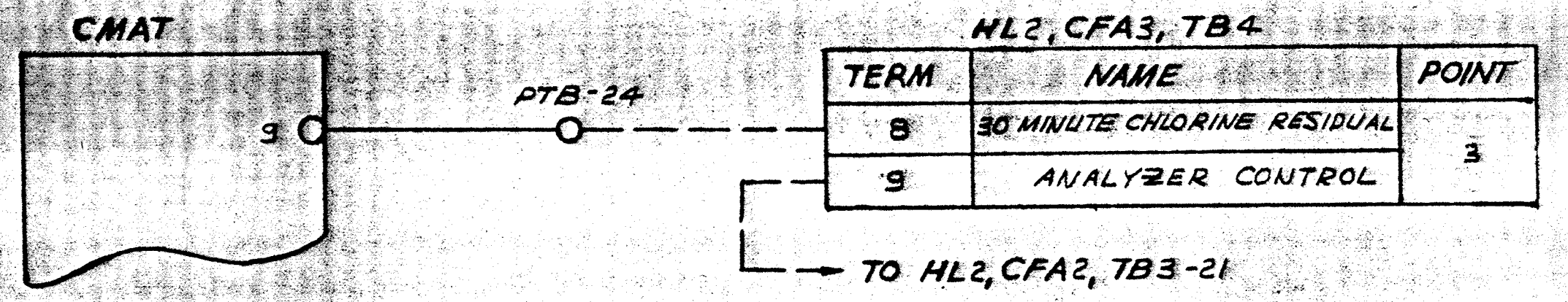
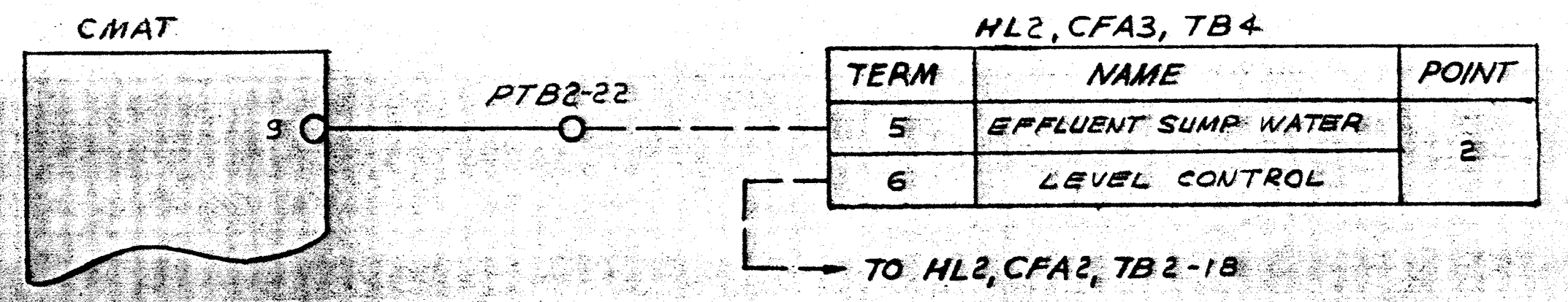
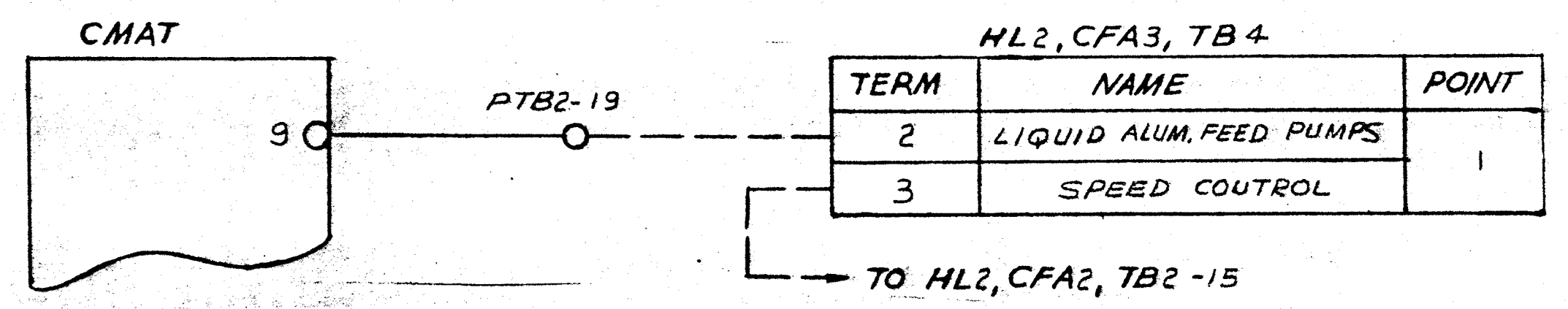
LEGEND

---	FIELD WIRING (NOT BY HONEYWELL)	⊗	DEVICES (NOT BY HONEYWELL)
---	WIRING (BY HONEYWELL)	◀	20 PSIG. AIR SUPPLY
□	BACK OF PANEL TERMINAL		
○	PNEUMATIC CONNECTION		

REV	DATE	DESCRIPTION	CHK.	APPD.
C	7/16/83	AS INSTALLED		
B	2/27/79	CON. CHAS. SUB. FOR REAR SIG-2		
A	8/7	ENG. CHANGE		

HONEYWELL INC. VALLEY FORGE, PA.	
DRAFTER	DATE
CHK.	
ENG.	
SCALE	
Savage Waste Water Treatment Plant Howard County, Maryland Addition No. 4, Contract 505-S PIU Tiedown & Conduit Entry	
DWG. NO.	SHEET
96D-28342-TCE	1 OF 1

WORKING DWG.



LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

REV	DATE	DESCRIPTION	CHK.	APPD.
A	7/3/64	NEW CHK. AS INSTALLED		

HONEYWELL INC.
VALLEY FORGE, PA.

DRAFTER: [Signature] DATE: [Blank]

CHK.: [Blank]

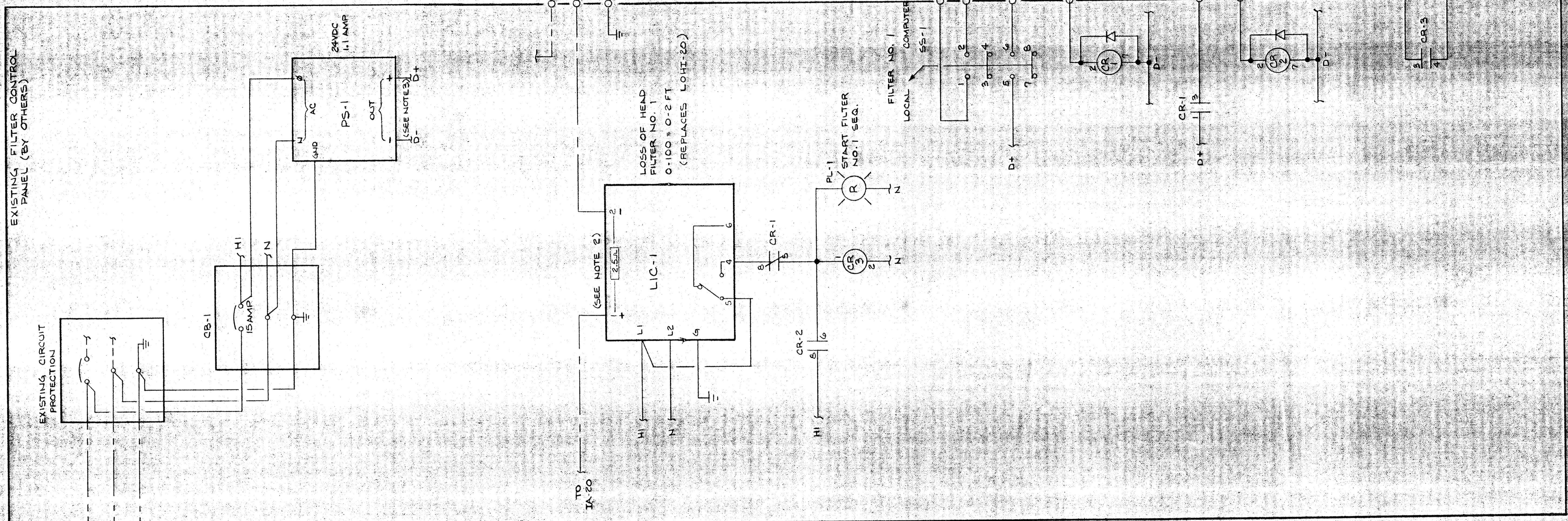
ENGR.: [Blank]

SCALE: [Blank]

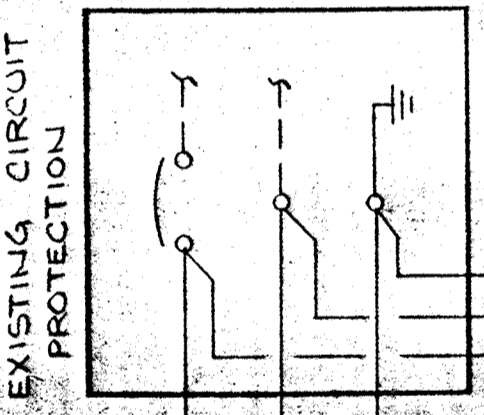
DWG. NO. 3100-10000-1011 SHT. 1 OF 5

NOTES:

- 1 EXISTING WIRING INDICATES
- 2 DISCONNECT AND REMOVE LOSS OF HEAD FILTER NO. 1. SUBSTITUTE LIMIT CONTROLLER AND RE-ATTACH SIGNAL WIRES.
- 3 DO NOT CONNECT THE OUTPUT OF THIS POWER SUPPLY TO THE EXISTING SUPPLY.

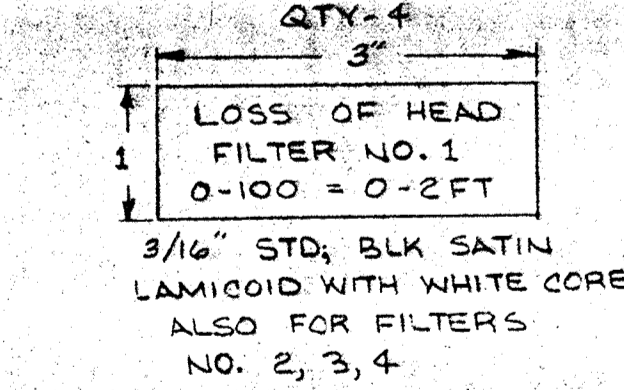
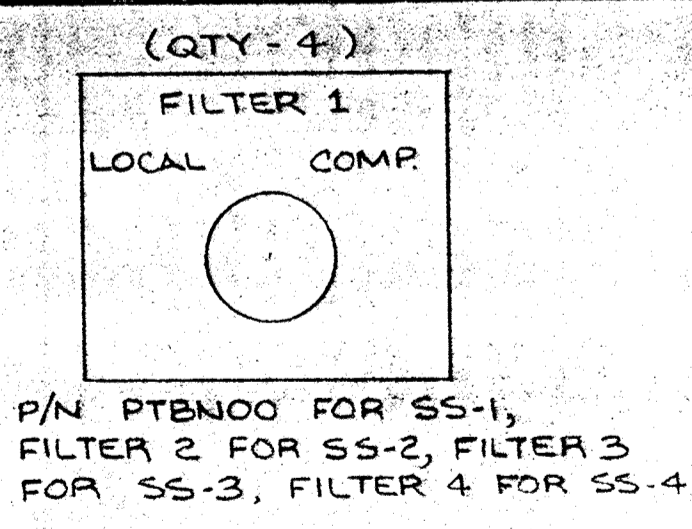
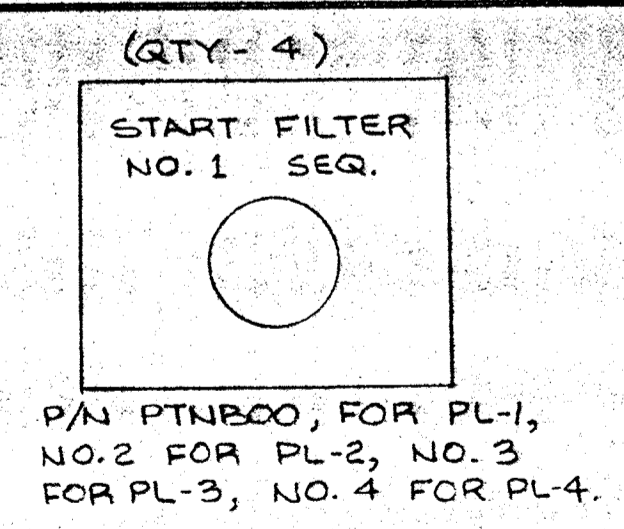


EXISTING FILTER CONTROL PANEL (BY OTHERS)



EQUIPMENT LEGEND

ITEM	TAG	DESCRIPTION	PART NO.	VENDOR	QTY
1	PS-1	POWER SUPPLY	B24GT110	ACOPIAN	1
2	LIC-1, -2, -3, -4	DIALATOR CONTROLLER	R7350J1065	HONEYWELL	4
3	SS-1, -2, -3, -4	SELECTOR SWITCH	PT5BC202C	HONEYWELL	4
4	CR-1, -2, -4, -5, -7, -8, -10, -11	24VDC RELAY	KRP-11A4-24VDC	POTTER & BRUMFIELD	8
5	CR-3, -6, -9, -12	110VAC RELAY, 2P CONTACTS	LO-20 W/2 LC-1	SQUARE D	4
6		SUPPRESSION DIODES	1N4003		8
7	PL-1, -2, -3, -4	PILOT LIGHT	PTL2213	HONEYWELL	4
8	CB-1	CIRCUIT BREAKER	CHS-2, CH15	CUTLER-HAMMER	1 (HONEYWELL STANDARD)



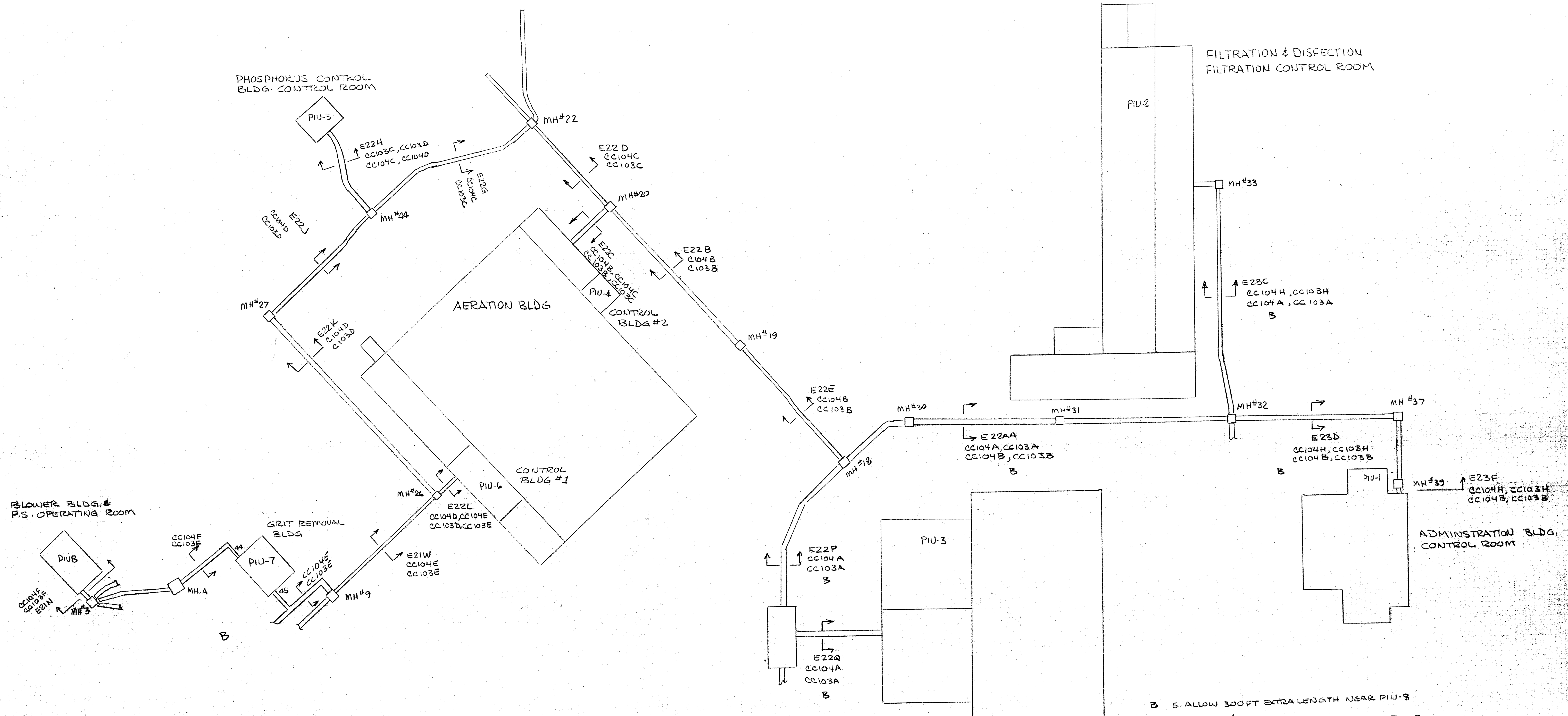
LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

DRAFTER	DATE	SAVAGE WASTEWATER TREATMENT PLANT	
CHK		HOWARD COUNTY, MARYLAND	
ENGR		ADDITION NO. 1, 505-S	
SCALE		PROPOSAL 3, REV. 5; ITEM 1	
DWG. NO.	916D-28342-W2	SHT.	1 OF 4

REV	DATE	DESCRIPTION	CHK.	APPD.
B	7/16/82	AS INSTALLED		EG
A	2/20/82	REL. FOR FABRICATION		EG

HONEYWELL INC.
VALLEY FORGE, PA.



- B 5. ALLOW 300 FT EXTRA LENGTH NEAR PIU-8
- B 4. PROPOSAL 15 REDUCES THE RUNS NEAR PIU-7
- 3. ROUTING IS PER CONTRACT DWGS. EXCEPT THRU MH#32, 33, 37 & 39, DONE TO REDUCE TOTAL LENGTH.
- 2. REF: CH₂M HILL SHEET E-2
- 1. REF: WREA SHEET E-1

REV	DATE	DESCRIPTION	CHK	APPD
C	7/16/82	AS INSTALLED		
B	7/16/82	CON. CHG - RESUB. FOR REVISION SUB-2	CE	
A	3/27/79	ENR CHG - ADD SHTZ	SVB	CE

HONEYWELL INC. VALLEY FORGE, PA.	
DRAWN	DATE
CHK	
ENGR	DATE
SCALE	
SAVAGE WASTEWATER TREATMENT PLANT	
ADDITIONAL CONTRACT EOSE'S DATA HIGHWAY MAN HOLES	
DWG. NO.	SHT. 2 OF 2

LEGEND

--- FIELD WIRING (NOT BY HONEYWELL)

--- WIRING (BY HONEYWELL)

□ BACK OF PANEL TERMINAL

○ PNEUMATIC CONNECTION

⊗ DEVICES (NOT BY HONEYWELL)

◀ 20 PSIG. AIR SUPPLY

AUTOCON-TONE RECEIVER (PRO. 10)

DIGITAL INPUT UNIT

TERM	TAG	NAME
1		MAIN BKR. #1 OPEN SWBD/CONTROL CCI
2		SIGNAL COMMON
3		MAIN BKR. #2 OPEN SWBD/CONTROL CCI
4		NO VOLTAGE SWBD/CONTROL CCI
5		SIGNAL COMMON
6		TRANS. SW. IN STAND BY SWBD/CONTROL CCI
7		MAIN BKR. #1 OPEN CCI PUMPING STA.
8		SIGNAL COMMON
9		MAIN BKR. #2 OPEN CCI PUMPING STA.
10		NO VOLTAGE CCI PUMPING STA.
11		SIGNAL COMMON
12		TRANS. SW. IN STAND BY CCI PUMPING STA.
13		CHLORINE LEAK-SERVICE BUILDING
14		SIGNAL COMMON
15		SULPHUR DIOXIDE LEAK-SERVICE BUILDING
16		LOW CALORINE WEIGHT-SERVICE BUILDING
17		SIGNAL COMMON
18		SPARE (FUTURE)
19		
20		SIGNAL COMMON
21		
22		
23		SIGNAL COMMON
24		

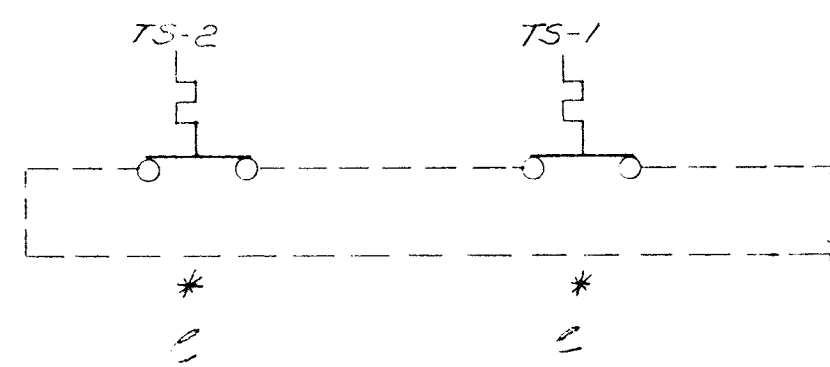
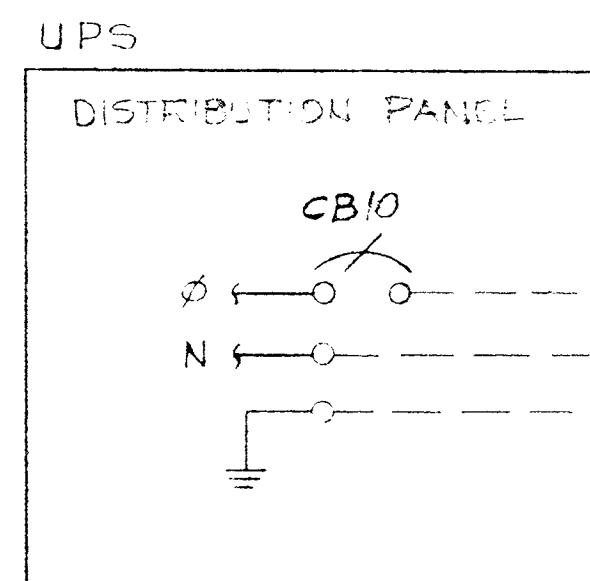
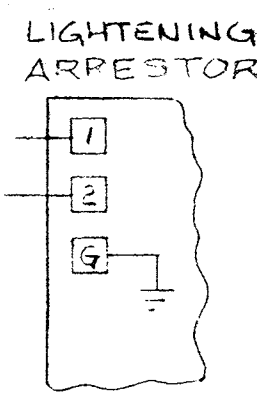
ANALOG INPUT UNIT

TERM	TAG	NAME
1		
2		FLOW EQUALIZATION TANK LEVEL
3		FLOW EQUALIZATION TANK LEVEL
4		
5		AIR FLOW TANK 1
6		AIR FLOW TANK 1
7		
8		AIR FLOW TANK 2
9		AIR FLOW TANK 2
10		
11		PLANT EFFLUENT FLOW
12		PLANT EFFLUENT FLOW
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

CABINET NO. HLI
CFA NO. 1
TERM. BLOCK 5
CARD TYPE PXID 21
(PRO. 10)

(PRO. 10)
CABINET NO. HLI
CFA NO. 1
TERM. BLOCK 6
CARD TYPE PXIA 21

TELEPHONE LINES TO DEEP RUN



- D.O. #1
- D.O. #2
- D.O. #3
- D.O. #4
- D.O. #5
- D.O. #6
- D.O. #7
- D.O. #8
- D.O. #9
- D.O. #10
- D.O. #11
- D.O. #12

- (4-20MA = 0-10') ANALOG 1
- (4-20MA = 0-2200 SCFM) ANALOG 2
- (4-20MA = 0-2200 SCFM) ANALOG 3
- (4-20MA = 0-1.5MGD) ANALOG 4

TONE TRANSMITTER WIRING IS SHOWN ON DRAWING LBC-771-10-WDI, SHEETS 1 & 2

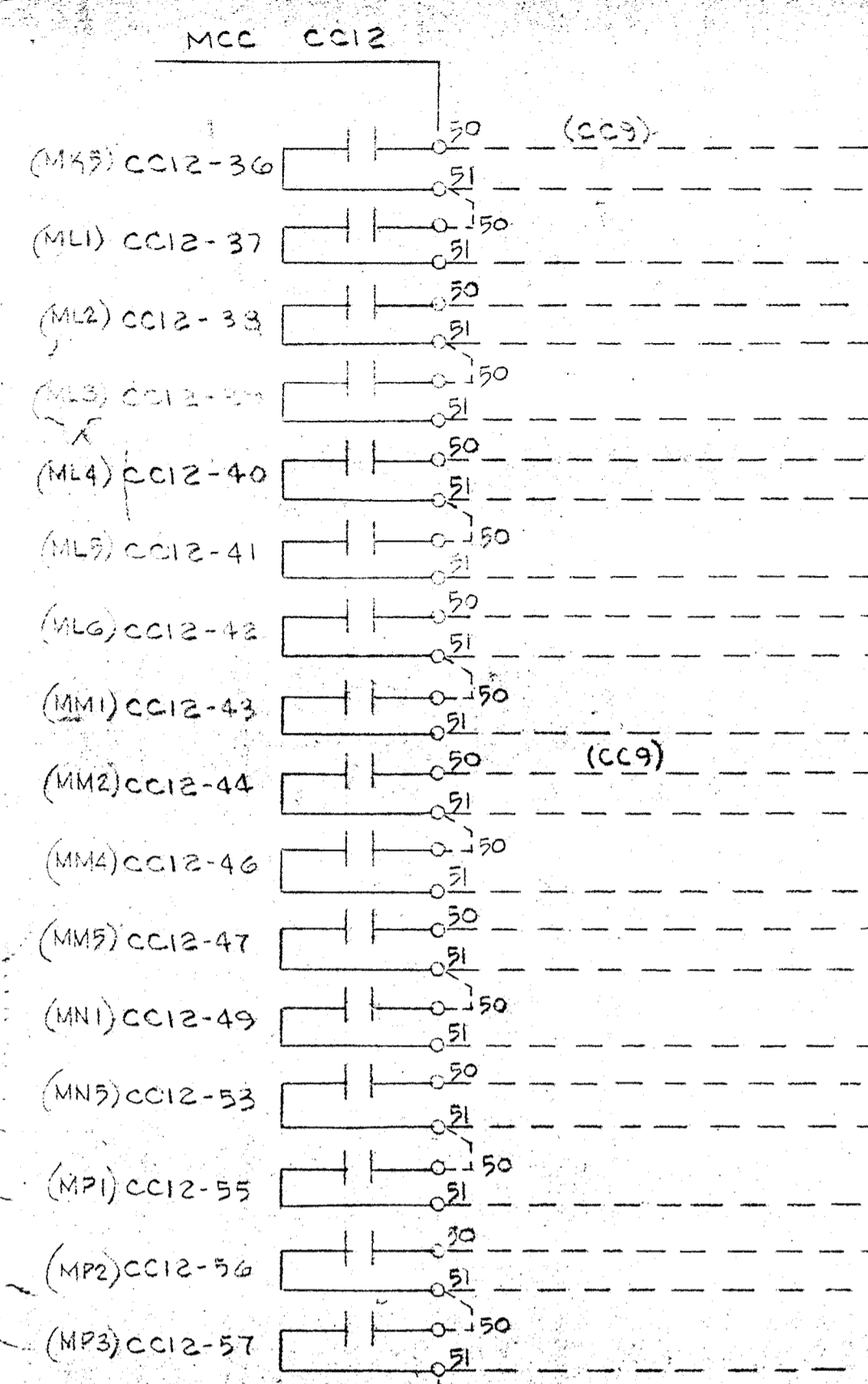
* P/N TBTF-1859, OPEN ON ALARM. HONEYWELL MONITORS DISC DRIVE INCOMING AIR TEMPERATURE AND CPU ROOM TEMPERATURE. THESE WERE ADDED BY HONEYWELL TO DETECT AND RECORD AIR CONDITIONER FAILURES ALSO TO GAIN ON-SITE EXPERIENCE. WIRING TO BE OF A EXPERIMENTAL NATURE UNTIL FINAL LOCATION HAS BEEN DETERMINED.

D	7/16/61	AS INSTALLED.	CE
C	2/24/61	ADD TEMPERATURE MONITOR	
E	2/24/61	ADD TERM. NO. 5	CE
A	2/24/61	REL. FOR CONST. APPROV.	CE
REV.	DATE	DESCRIPTION	CHK. APPD.

LEGEND
 --- FIELD WIRING (NOT BY HONEYWELL)
 --- WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION
 ⊕ DEVICES (NOT BY HONEYWELL)
 ◀ 20 PSIG. AIR SUPPLY

DRAFTER	SM	DATE	2/24/61
CHK	CE	DATE	2/24/61
ENGR	D. Entress	DATE	3/1/61
SCALE	1/1	DWG. NO.	916D-28342-PIU-1
			SHT 2 OF 2

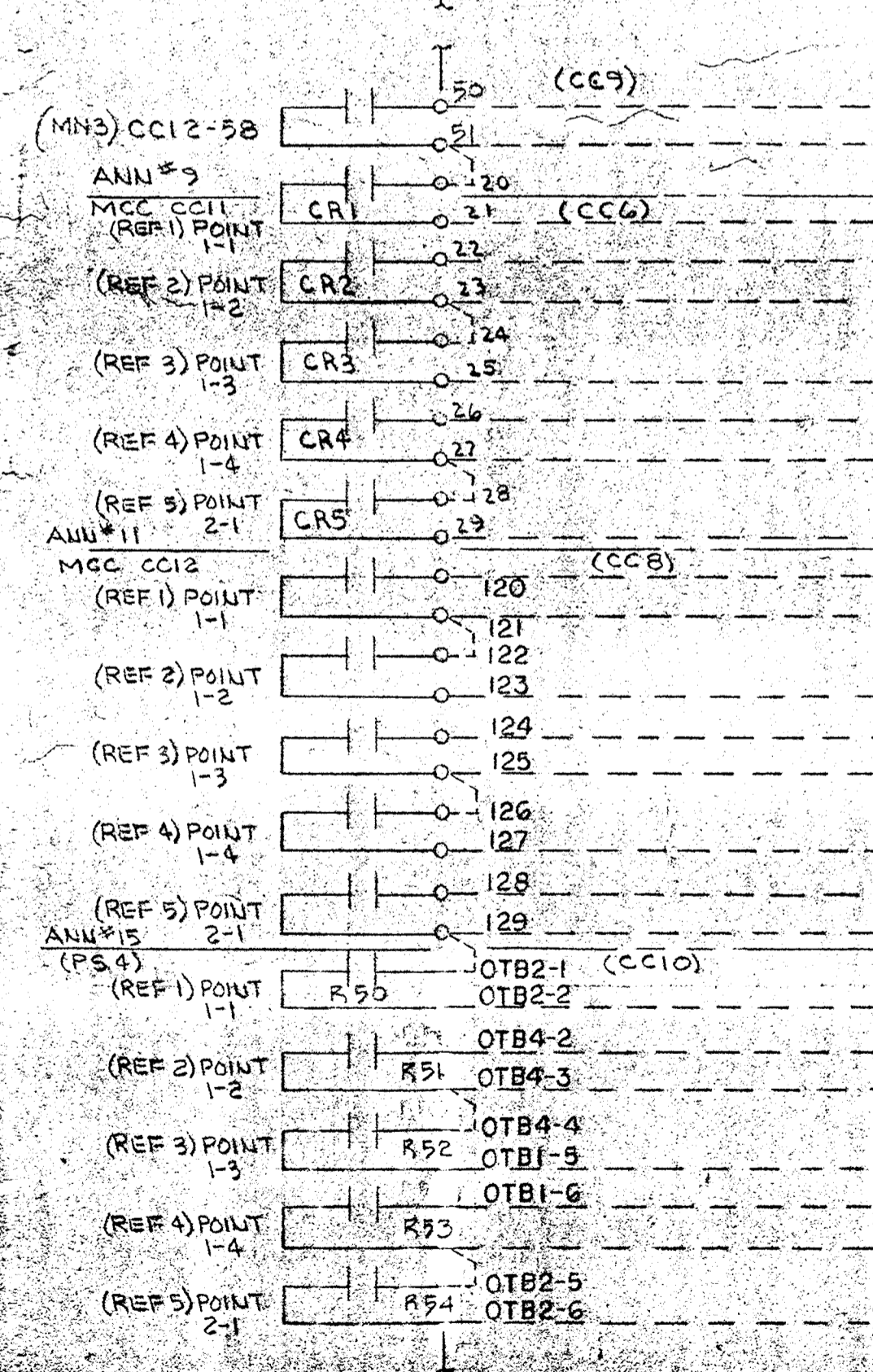
HONEYWELL INC. VALLEY FORGE, PA.
 SAVAGE WASTEWATER TREATMENT PLANT
 HOWARD COUNTY MARYLAND
 ADDITION #4 CONTRACT 505-S



TERM	TAG	NAME
1		D.O. BLOWER #2
2		SIGNAL COMMON
3		CHLORINE STORAGE VENT FAN #1
4		CHLORINE STORAGE UNIT HEATER #68
5		SIGNAL COMMON
6		CHLORINE STORAGE UNIT HEATER #10
7		36" METER VAULT SAMPLE PUMP #4
8		SIGNAL COMMON
9		36" METER VAULT SAMPLE PUMP #5
10		36" METER VAULT SAMPLE PUMP #5
11		SIGNAL COMMON
12		CHLORINE STORAGE VENT FAN #4
13		CHLORINE STORAGE UNIT HEATER #749
14		SIGNAL COMMON
15		36" METER VAULT UNIT HEATER #2
16		36" METER VAULT VENT FAN
17		SIGNAL COMMON
18		D.O. BLOWER ROOM UNIT HEATER #132
19		SULPHONATOR ROOM UNIT HEATER #2
20		SIGNAL COMMON
21		ELECTRICAL VAULT VENT FAN
22		D.O. BLOWER ROOM VENT FAN
23		SIGNAL COMMON
24		SULPHONATOR ROOM VENT FAN

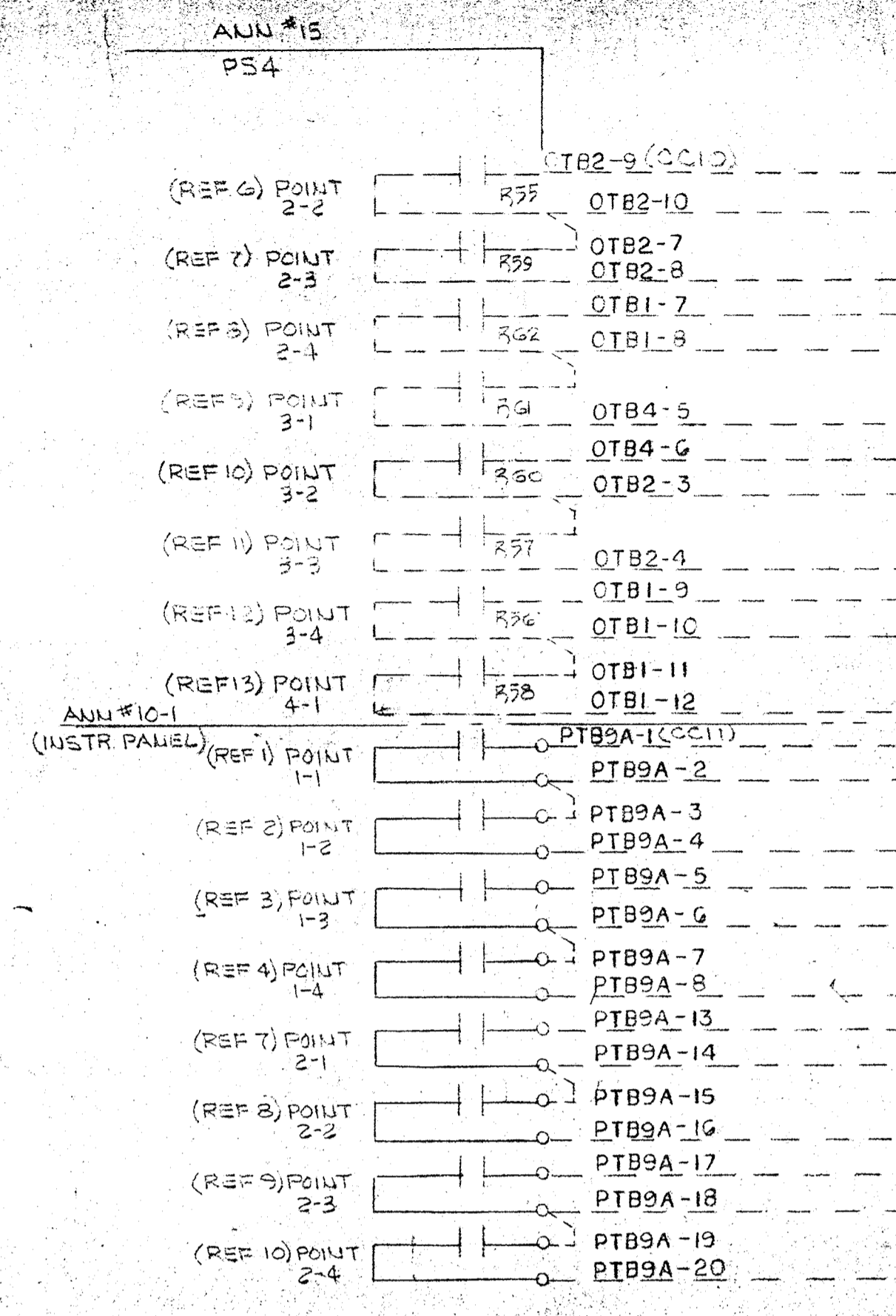
CABINET NO. HL3
CFA NO. 1
TERM BLOCK NO. 4
CARD TYPE PX1DZ1

(C-NAME CHG.)



TERM	TAG	NAME
1		CHLORINATOR ROOM VENT FAN
2		SIGNAL COMMON
3		MAIN BREAKER #1 OPEN 480 V MCC-CC11 FILTRATION BLDG
4		TIE BREAKER CLOSED 480 V MCC-CC11 FILTRATION BLDG
5		SIGNAL COMMON
6		MAIN BREAKER #2 OPEN 480 V MCC-CC11 FILTRATION BLDG
7		NO VOLTAGE SER. FDR #1 480 V MCC-CC11 FILTRATION BLDG
8		SIGNAL COMMON
9		NO VOLTAGE SER. FDR #2 480 V MCC-CC11 FILTRATION BLDG
10		MAIN BREAKER #1 OPEN 480 V MCC-CC12 DISINFECTION BLDG
11		SIGNAL COMMON
12		TIE BREAKER CLOSED 480 V MCC-CC12 DISINFECTION BLDG
13		MAIN BREAKER #2 OPEN 480 V MCC-CC12 DISINFECTION BLDG
14		SIGNAL COMMON
15		NO VOLTAGE SER. FDR #1 480 V MCC-CC12 DISINFECTION BLDG
16		NO VOLTAGE SER. FDR #2 480 V MCC-CC12 DISINFECTION BLDG
17		SIGNAL COMMON
18		MAIN SWITCH #1 OPEN PLANT FDR #1 SUBSTATION PS4
19		HIGH TEMPERATURE 2500 KVA XFMR-1 SUBSTATION PS4
20		SIGNAL COMMON
21		LOW LIQUID LEVEL 2500 KVA XFMR-1 SUBSTATION PS4
22		HIGH PRESSURE 2500 KVA XFMR-1 SUBSTATION PS4
23		SIGNAL COMMON
24		MAIN BREAKER #1 OPEN 480 V MGR SUBSTATION PS4

CABINET NO. HL3
CFA NO. 1
TERM BLOCK NO. 5
CARD TYPE PX1DZ1



TERM	TAG	NAME
1		TIE BREAKER CLOSED 480 V MGR SUBSTATION PS4
2		SIGNAL COMMON
3		MAIN BREAKER #2 OPEN 480 V MGR SUBSTATION PS4
4		HIGH PRESSURE 2500 KVA XFMR-2 SUBSTATION PS4
5		SIGNAL COMMON
6		LOW LIQUID LEVEL 2500 KVA XFMR-2 SUBSTATION PS4
7		HIGH TEMPERATURE 2500 KVA XFMR-2 SUBSTATION PS4
8		SIGNAL COMMON
9		MAIN SWITCH #2 OPEN PLANT FDR #2 SUBSTATION PS4
10		NO VOLTAGE 480 V SER #1 SUBSTATION PS4
11		SIGNAL COMMON
12		NO VOLTAGE 480 V SER #2 SUBSTATION PS4
13		HIGH WATER LEVEL FLOCCULATOR BASIN #1 FILTRATION BLDG
14		SIGNAL COMMON
15		HIGH WATER LEVEL FLOCCULATOR BASIN #2 FILTRATION BLDG
16		HIGH WATER LEVEL FLOCCULATOR BASIN #3 FILTRATION BLDG
17		SIGNAL COMMON
18		HIGH WATER LEVEL FLOCCULATOR BASIN #4 FILTRATION BLDG
19		HIGH WATER LEVEL INFLUENT FILTER #1 FILTRATION BLDG
20		SIGNAL COMMON
21		HIGH WATER LEVEL INFLUENT FILTER #2 FILTRATION BLDG
22		HIGH WATER LEVEL INFLUENT FILTER #3 FILTRATION BLDG
23		SIGNAL COMMON
24		HIGH WATER LEVEL INFLUENT FILTER #4 FILTRATION BLDG

CABINET NO. HL3
CFA NO. 1
TERM BLOCK NO. 6
CARD TYPE PX1DZ1

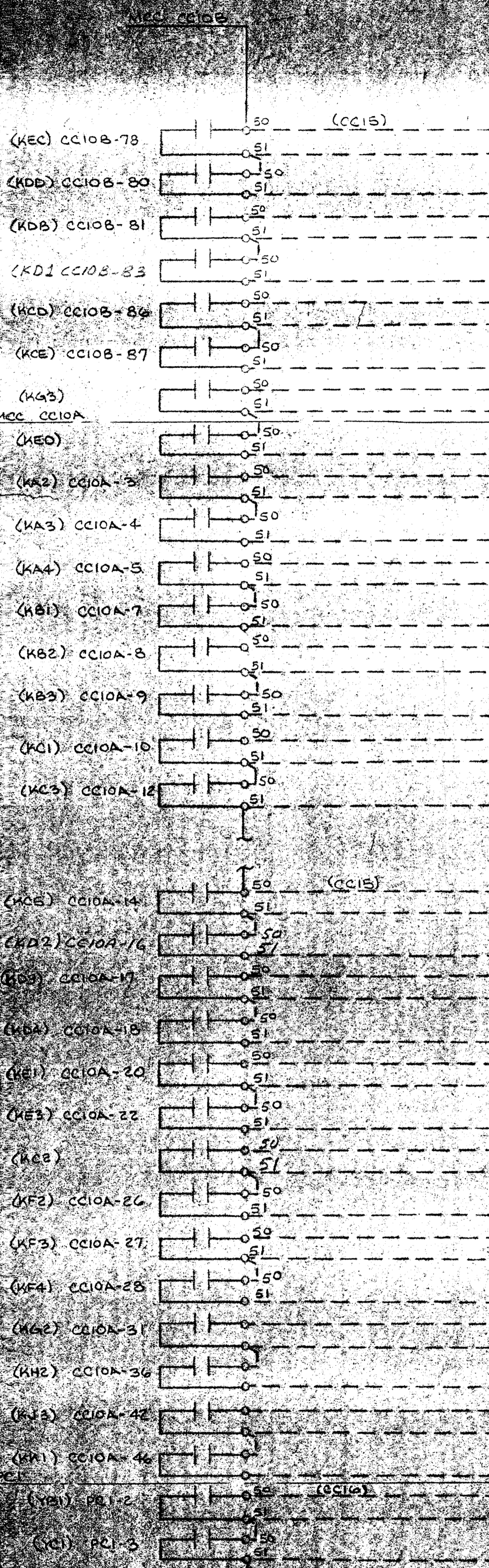
* CONTACTS OF R51, R52 AND R53 ARE WIRED IN PARALLEL. REMOVE PARALLEL WIRING TO ALLOW USE AS SINGLE CONTACTS.
** CONTACTS OF R60, R61 AND R62 ARE WIRED IN PARALLEL. REMOVE PARALLEL WIRING TO USE AS SINGLE CONTACTS.

LEGEND
 --- FIELD WIRING (NOT BY HONEYWELL)
 --- WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION
 ⊗ DEVICES (NOT BY HONEYWELL)
 ◀ 20 PSIG. AIR SUPPLY

DRAFTER	STEVE SMITH	DATE	4/27/78
CHK	NL		4/27/78
ENGR	R. Entola		5/2/78
SCALE	H		
DWG. NO.	916D-28342-PIU-2	SHEET	2 OF 7

D	4/16/78	AS INSTALLED	CE
C	4/16/78	ENGR. CHG.	CE
B	4/16/78	NO CHANGE	CE
A	4/16/78	ENGR. CHANGES	JWB
1	4/16/78	ENGR. UPDATE	JWB
REV.	DATE	DESCRIPTION	CHK

HONEYWELL INC.
VALLEY FORGE, PA.
SAVAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY, MARYLAND
ADDITION NO. 4 CONTRACT 505-S

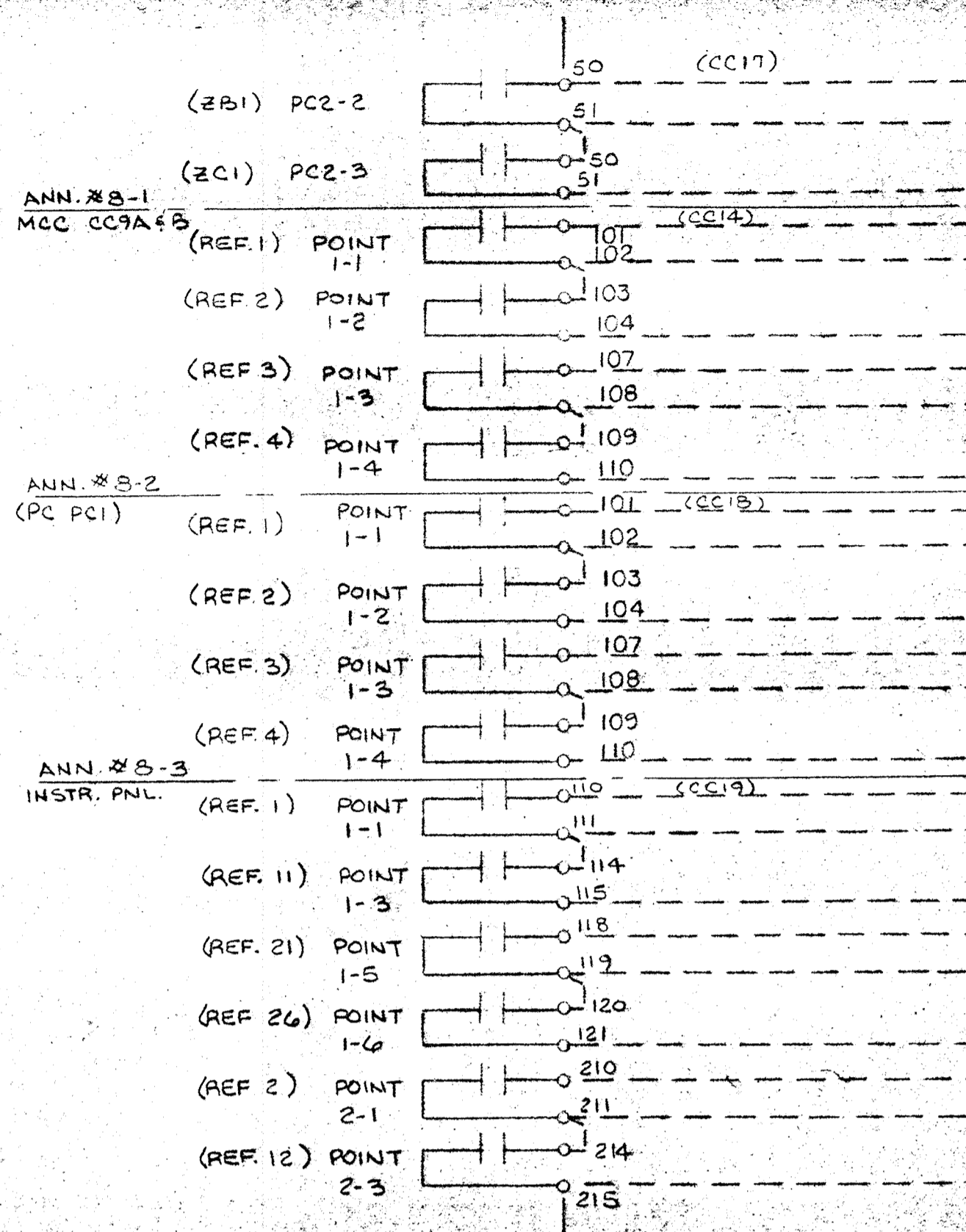


TERM	TAG	NAME
1		DEWATERING BLDG AIR COMPRESSOR #2
2		SIGNAL COMMON
3		FLOT THICKENER AREA RECYCLE PUMP #2
4		FLOT THICKENER AREA RE-AERATION PUMP #2
5		SIGNAL COMMON
6		(FUTURE) DEWATERING BLDG POLYMER A
7		DEWATERING BLDG FLUSHING WATER PUMP #2
8		SIGNAL COMMON
9		SUBSTATION VAULT CENTRIFUGAL FAN #5
10		DEWATERING BLDG WASH WATER PUMP NO. 3
11		SIGNAL COMMON
12		FLOT THICKENER AREA RECYCLE PUMP #4
13		DEWATERING BLDG BASINMENT EXH FAN #21
14		SIGNAL COMMON
15		DEWATERING BLDG POLYMER "A" CHEM MIXER #2
16		DEWATERING BLDG POLYMER "B" CHEM MIXER #2
17		SIGNAL COMMON
18		FLOT THICK GALLERY RADIANT HEATERS
19		DEWATERING BLDG VAC FILTER ROOM RADIANT HEATERS
20		SIGNAL COMMON
21		DEWATERING BLDG STD LOCKER TOILET RAD. HINS.
22		DEWATERING BLDG POLYMER "A" FEED PUMP #2
23		SIGNAL COMMON
24		DEWATERING BLDG POLYMER "B" FEED PUMP #2

CABINET NO. HL4
 CFA NO. 1
 TERM BLOCK NO. 8
 CARD TYPE PXID21

TERM	TAG	NAME
1		DEWATERING BLDG POLYMER FEED PUMP #2
2		SIGNAL COMMON
3		(FUTURE) DEWATERING BLDG POLYMER "A" SUPPLY PUMP #2
4		DEWATERING BLDG POLYMER "B" SUPPLY PUMP #2
5		SIGNAL COMMON
6		DEWATERING BLDG POLYMER SUPPLY PUMP #2
7		DEWATERING BLDG VAC FILTER ROOM INTL HEATER #1A
8		SIGNAL COMMON
9		DEWATERING BLDG CHEM AREA EXH FAN #24
10		(FUTURE) DEWATERING BLDG POLYMER "A" FEED PUMP #3
11		SIGNAL COMMON
12		DEWATERING BLDG BELT CONVEYOR #2
13		FLOT THICK ROOM ROOF VENT #11
14		SIGNAL COMMON
15		DEWATERING BLDG MECH ROOM CENTRIFUGAL FAN #3
16		DEWATERING BLDG HYDRAULIC POWER DRIVE NO. 3
17		SIGNAL COMMON
18		DEWATERING BLDG HYDRAULIC POWER DRIVE #2
19		DEWATERING BLDG WASH WATER PUMP #3
20		SIGNAL COMMON
21		DEWATERING BLDG ELECT ROOM DUCT HEATER #2
22		DIGESTER PIPE GALLERY BLOWER #1
23		SIGNAL COMMON
24		DIGESTER PIPE GALLERY BLOWER #2

CABINET NO. HL4
 CFA NO. 2
 TERM BLOCK NO. 1
 CARD TYPE PXID21



TERM	TAG	NAME
1		DIGESTER PIPE GALLERY BLOWER #4
2		SIGNAL COMMON
3		DIGESTER PIPE GALLERY BLOWER #2
4		MAIN BREAKER OPEN 480 V-MCC-CC9A8B SLUDGE FACILITY
5		SIGNAL COMMON
6		MAIN BREAKER OPEN 480 V-MCC-CC10A8B SLUDGE FACILITY
7		NO VOLTAGE SER FDR 480 V-MCC-CC9A8B SLUDGE FACILITY
8		SIGNAL COMMON
9		NO VOLTAGE SER FDR 480 V-MCC-CC10A8B SLUDGE FACILITY
10		MAIN BREAKER OPEN 480 V-PC-PC1 SLUDGE FACILITY
11		SIGNAL COMMON
12		MAIN BREAKER OPEN 480 V-PC-PC2 SLUDGE FACILITY
13		NO VOLTAGE SER FDR 480 V-PC-PC1 SLUDGE FACILITY
14		SIGNAL COMMON
15		NO VOLTAGE SER FDR 480 V-PC-PC2 SLUDGE FACILITY
16		LOW LIQUID LEVEL FLOTATION THICKENER #1 SLUDGE FACILITY
17		SIGNAL COMMON
18		CENTER DRIVE OVERLOAD GRAVITY THICKENER #1
19		LOW WATER LEVEL HYDRO-PNEUMATIC TANK SLUDGE FACILITY
20		SIGNAL COMMON
21		HIGH WATER LEVEL WET WELL-PROCESS OVERFLOW RETURN P.S.
22		HIGH LIQUID LEVEL FLOTATION THICKENER #1 SLUDGE FACILITY
23		SIGNAL COMMON
24		CENTER DRIVE OVERLOAD GRAVITY THICKENER #2

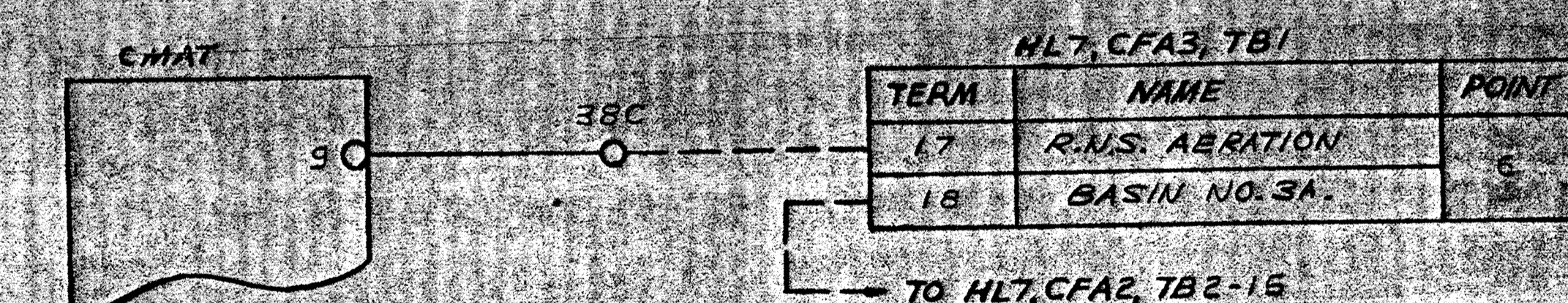
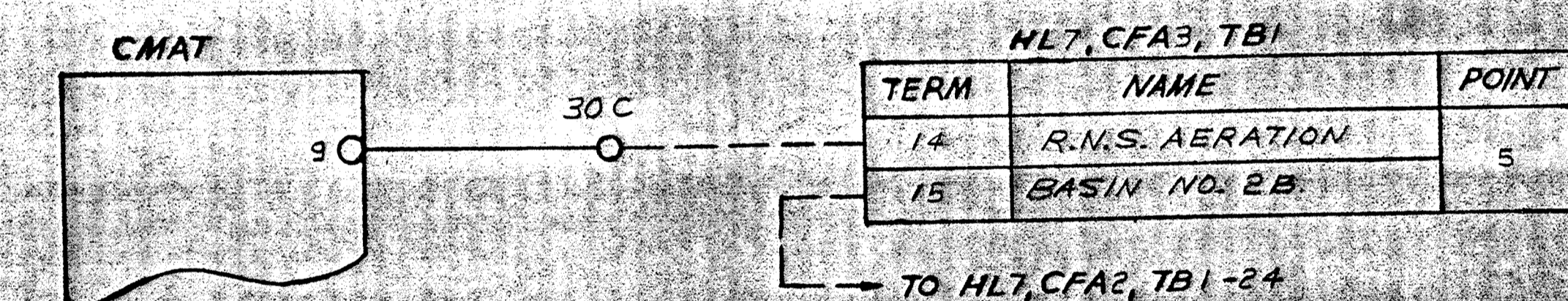
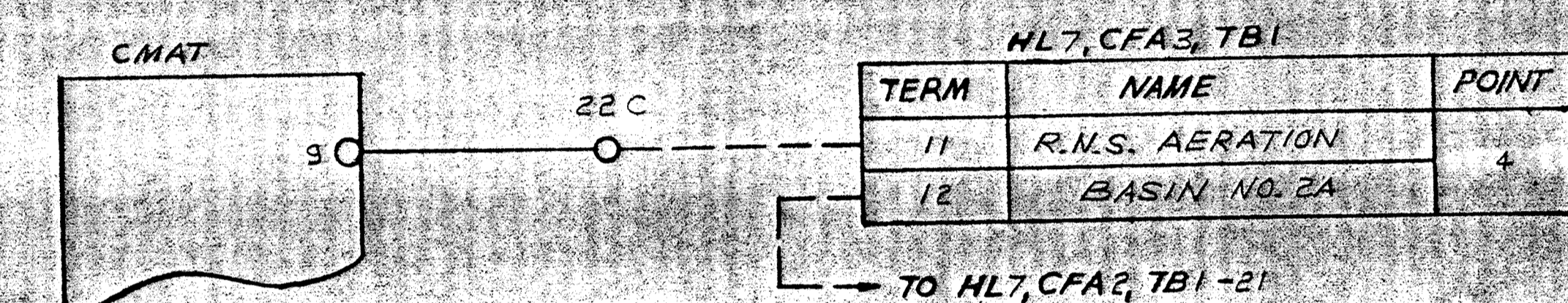
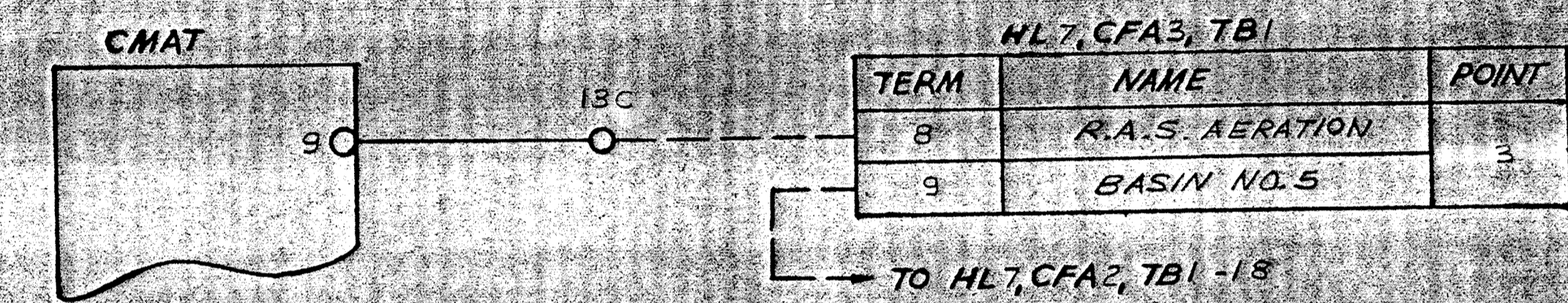
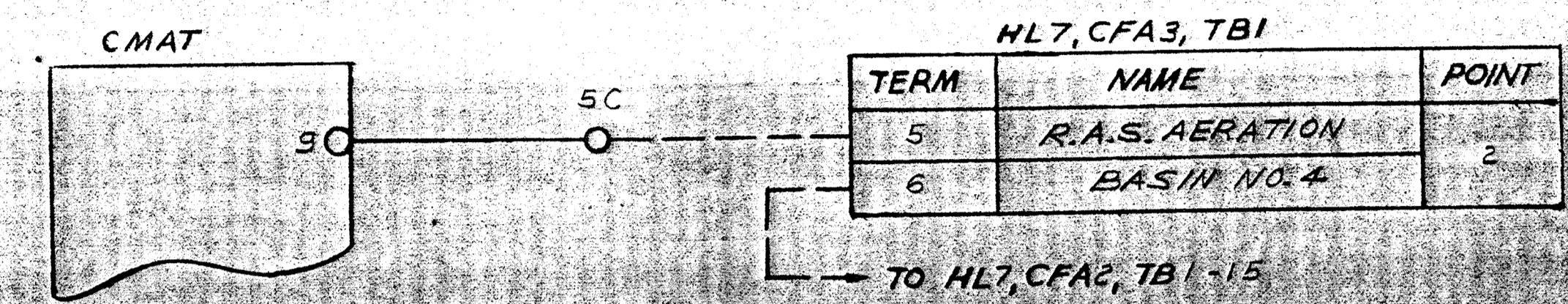
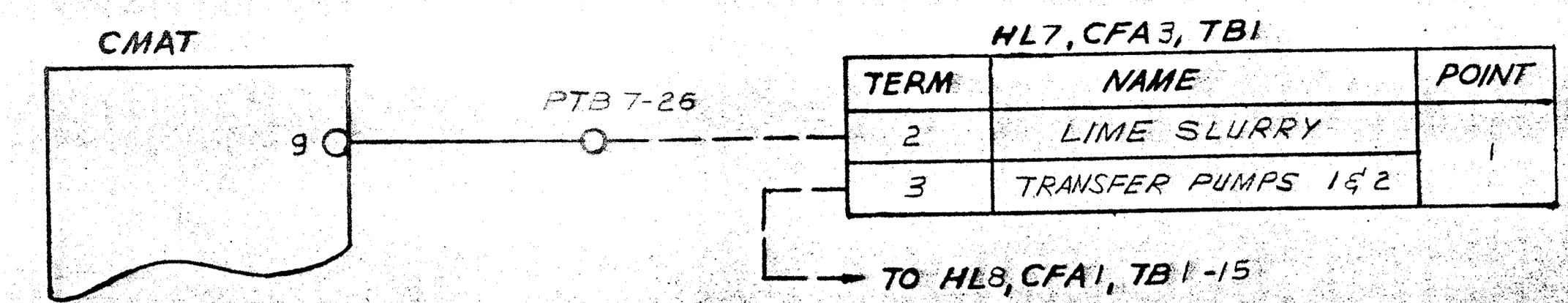
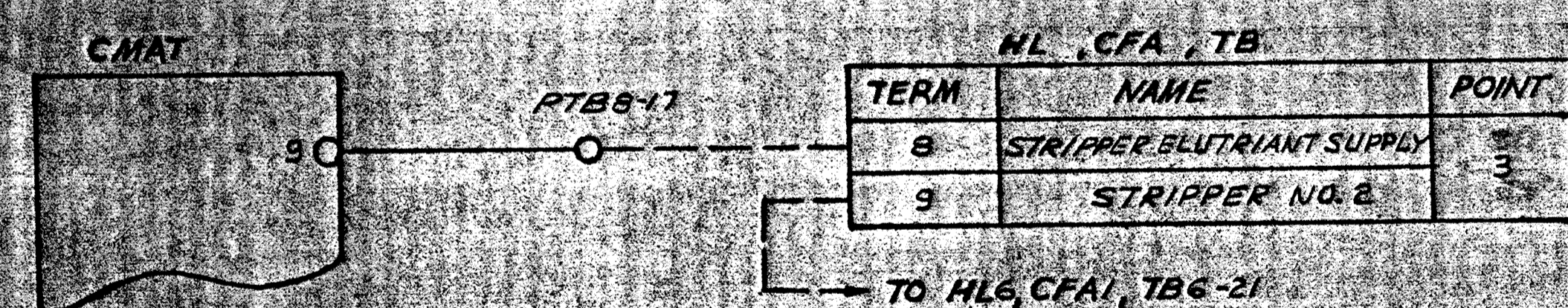
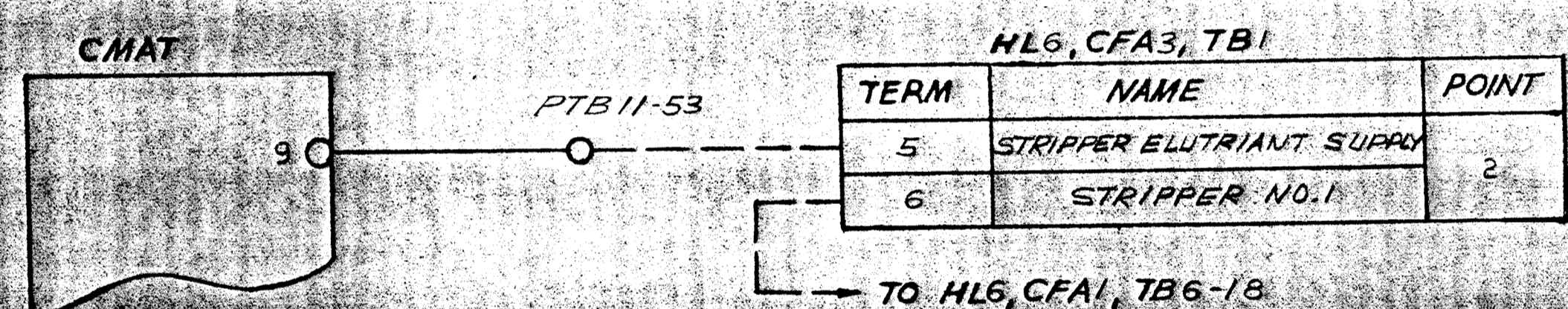
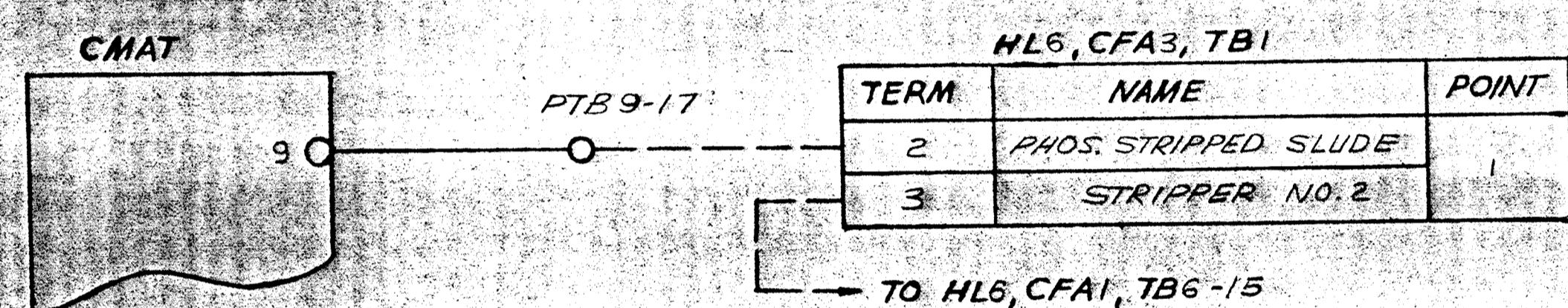
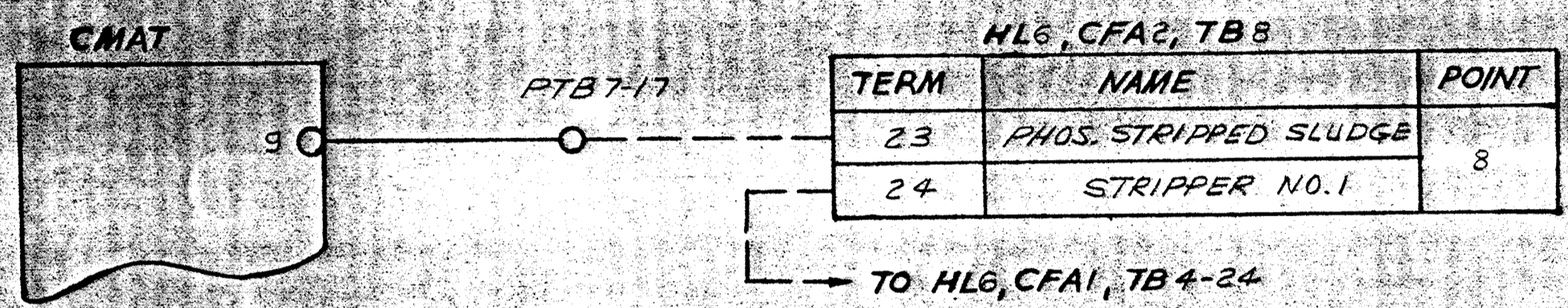
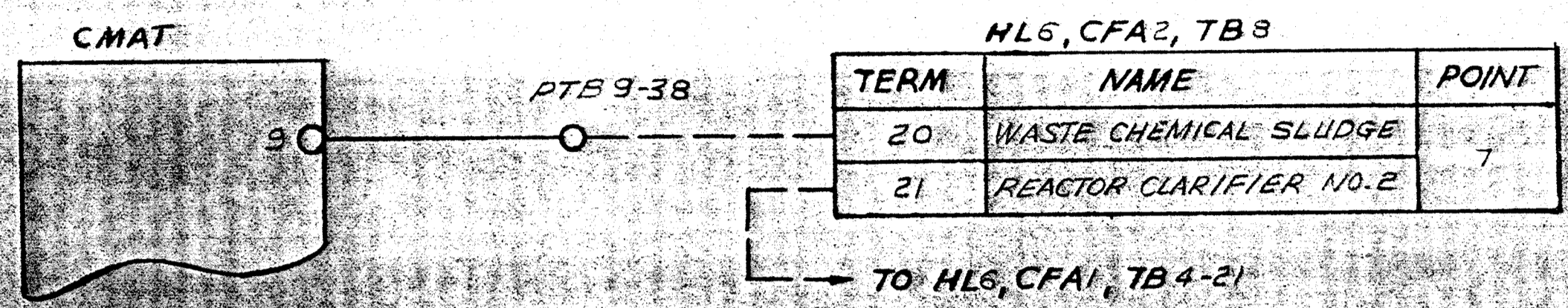
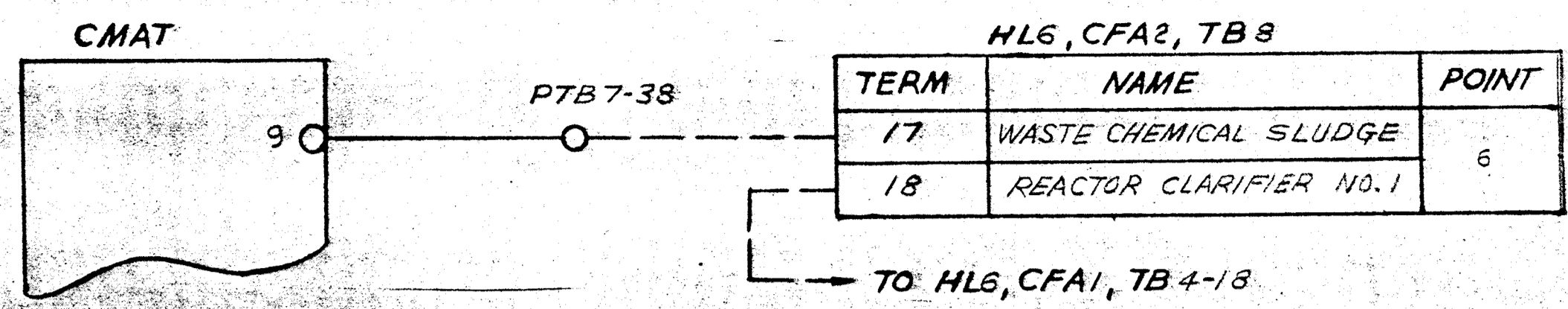
CABINET NO. HL4
 CFA NO. 2
 TERM BLOCK NO. 4
 CARD TYPE PXID21

LEGEND
 WIRING BY HONEYWELL
 WIRING BY HONEYWELL
 BACK OF PANEL TERMINAL
 TERMINATING CONNECTION

● DEVICES (NOT BY HONEYWELL)
 ← 20 PSIG AIR SUPPLY

DRAWN BY STEVE SMITH
 CHKD BY [Signature]
 ENGR BY [Signature]
 SCALE

REV	DATE	DESCRIPTION	CHK	APPD
E	7/16/82	AS INSTALLED		
D	7/16/82	ENGR. CHG.		
C	7/16/82	REDRAWN		
HONEYWELL INC. VALLEY FORGE PA.				
VALLEY FORGE PA.				
SAVAGE WASTEWATER TREATMENT PLANT 60000 GPD CAPACITY ADDITIO. 10000 GPD CAPACITY				
DRAW NO. 9160-28342-PRO-2				



LEGEND

--- FIELD WIRING (NOT BY HONEYWELL)

--- WIRING (BY HONEYWELL)

□ BACK OF PANEL TERMINAL

○ PNEUMATIC CONNECTION

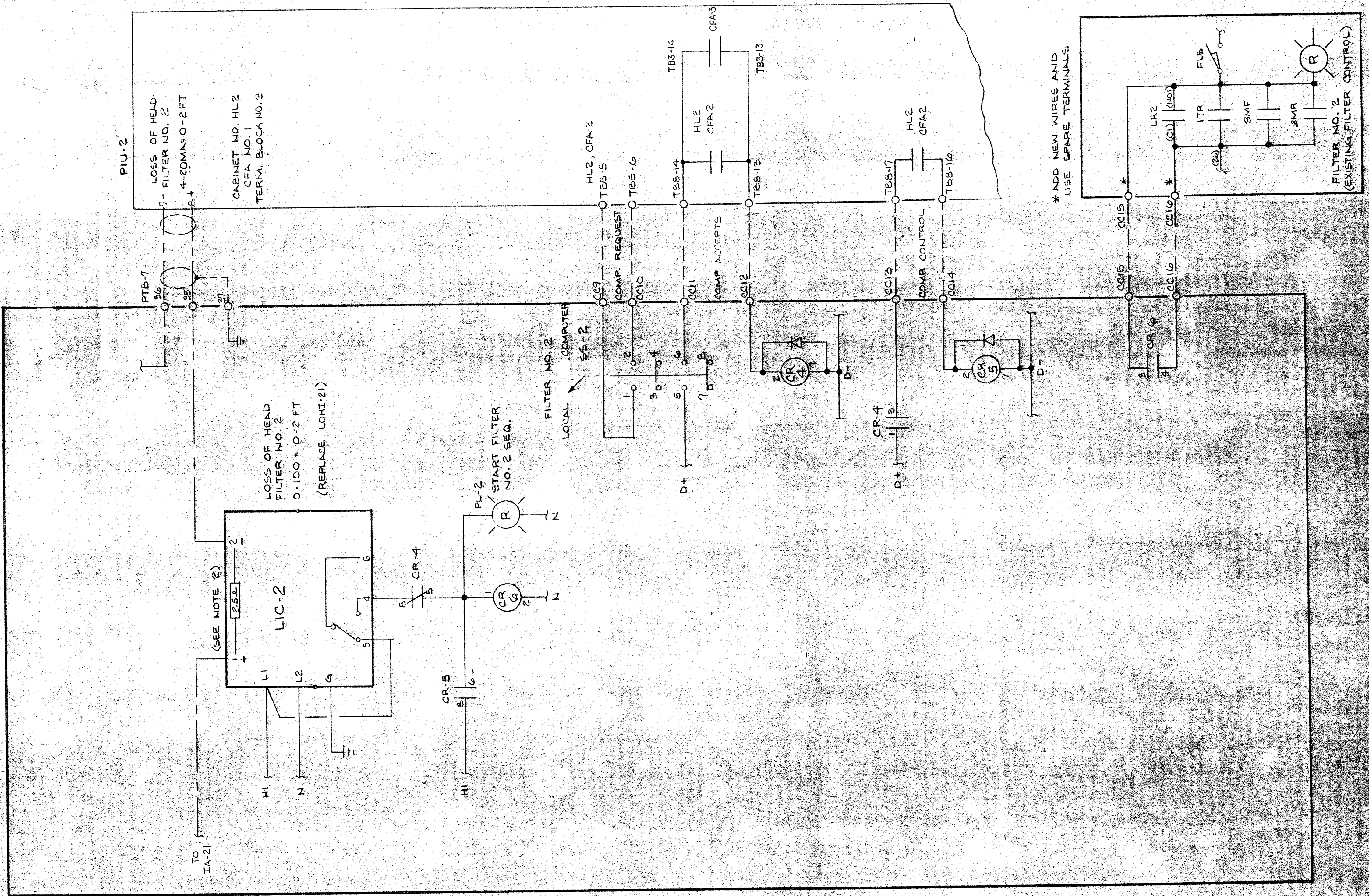
⊗ DEVICES (NOT BY HONEYWELL)

◀ 20 PSIG. AIR SUPPLY

REV.	DATE	DESCRIPTION	CHK.	APPD.
A	7/19/92	NEW SHT., AS INSTALLED		
HONEYWELL INC. VALLEY FORGE, PA.				
DRAFTER	DATE	SARGE WASTEWATER TREATMENT PLANT		
CHK.		HARVARD COUNTY, MARYLAND		
ENGR.		ADDITION NO. 4 CONTRACT 505-S		
SCALE		CMAT VOLTAGE MOUNTING		
DWG. NO. 015D-22342 VM-1		SHT 2 OF 5		

NOTES:

- 1. EXISTING WIRING INDICATES
- 2. DISCONNECT AND REMOVE LOSS OF HEAD FILTER NO. 2 AND SUBSTITUTE LIMIT CONTROLLER AND RE-ATTACH SIGNAL WIRES.
- 3. DO NOT CONNECT THE OUTPUT OF THIS POWER SUPPLY TO THE EXISTING SUPPLY.



LEGEND

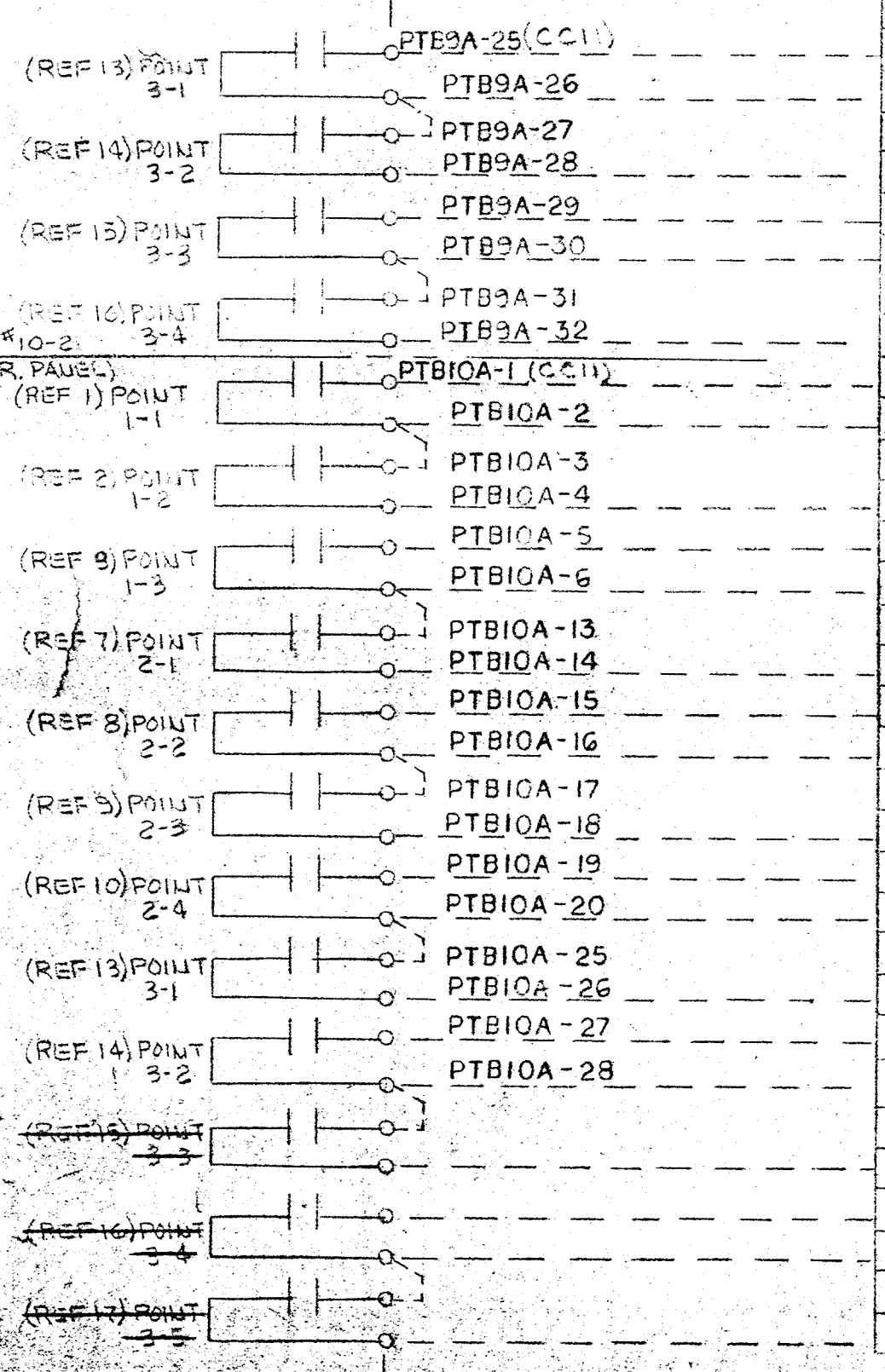
- - - FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊙ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

REV.	DATE	DESCRIPTION	CHK.	APPD.
B	7/16/82	AS INSTALLED		CS
A	2/27/82	REL. FOR FABRICATION		CS

HONEYWELL INC.
VALLEY FORGE, PA.

DRAFTER	DATE	DESCRIPTION	DWG. NO.	SHT. 2 OF 4
W. J. ...	7/1/82	SAVAGE WASTEWATER TREATMENT PLANT	712D-28842-W2	
CHK	7/1/82	HOWARD COUNTY, MARYLAND		
ENGR	7/1/82	ADDITION NO. 4, 505-S		
SCALE	1/4" = 1'-0"	PROPOSAL 3, REV. 5; ITEM 1		

ANN #10-1
(INSTR. PANEL)

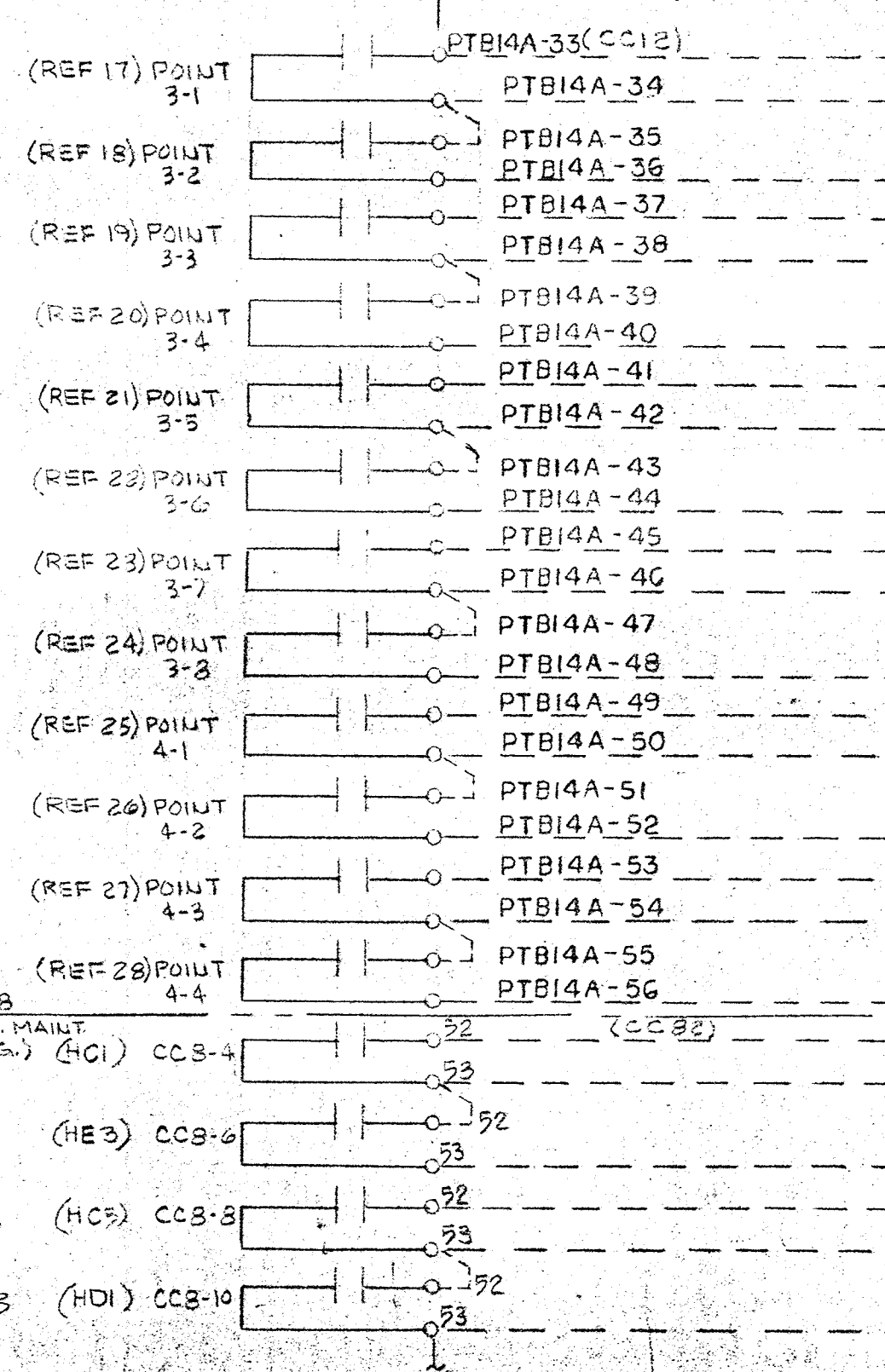


TERM	TAG	NAME
1		EXCESS LOSS OF HEAD FILTER #1 FILTRATION BLDG
2		SIGNAL COMMON
3		EXCESS LOSS OF HEAD FILTER #2 FILTRATION BLDG
4		EXCESS LOSS OF HEAD FILTER #3 FILTRATION BLDG
5		SIGNAL COMMON
6		EXCESS LOSS OF HEAD FILTER #4 FILTRATION BLDG
7		HIGH WATER LEVEL EFFLUENT SUMP FILTRATION BLDG
8		SIGNAL COMMON
9		LOW WATER LEVEL EFFLUENT SUMP FILTRATION BLDG
10		LOW AIR PRESSURE STATION AIR FILTRATION BLDG
11		SIGNAL COMMON
12		FILTER MALFUNCTION A.S.W. FILTER #1 FILTRATION BLDG
13		FILTER MALFUNCTION A.S.W. FILTER #2 FILTRATION BLDG
14		SIGNAL COMMON
15		FILTER MALFUNCTION A.S.W. FILTER #3 FILTRATION BLDG
16		FILTER MALFUNCTION A.S.W. FILTER #4 FILTRATION BLDG
17		SIGNAL COMMON
18		LOW ALUM LEVEL ALUM TANK #1 FILTRATION BLDG
19		LOW ALUM LEVEL ALUM TANK #2 FILTRATION BLDG
20		SIGNAL COMMON
21		LOSS OF LUBE WATER EFFLUENT PUMP #1 FILTRATION BLDG
22		LOSS OF LUBE WATER EFFLUENT PUMP #2 FILTRATION BLDG
23		SIGNAL COMMON
24		LOSS OF LUBE WATER EFFLUENT PUMP #4 FILTRATION BLDG

CABINET NO. HL3
CPA NO. 1
TERM BLOCK NO. 7
CARD TYPE PKID21

(D-DELETE)
(D-DELETE)
(D-DELETE)

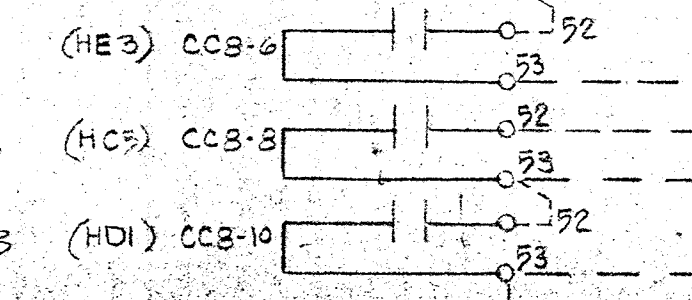
ANN #12
(INSTR. PANEL)



TERM	TAG	NAME
1		LOW GAS FLOW CHLORINATOR #1 DISINFECTION BLDG
2		SIGNAL COMMON
3		HIGH GAS FLOW CHLORINATOR #1 DISINFECTION BLDG
4		LOW GAS FLOW CHLORINATOR #2 DISINFECTION BLDG
5		SIGNAL COMMON
6		HIGH GAS FLOW CHLORINATOR #2 DISINFECTION BLDG
7		LOW GAS FLOW SULPHONATOR #1 DISINFECTION BLDG
8		SIGNAL COMMON
9		HIGH GAS FLOW SULPHONATOR #1 DISINFECTION BLDG
10		LOW GAS FLOW SULPHONATOR #2 DISINFECTION BLDG
11		SIGNAL COMMON
12		HIGH GAS FLOW SULPHONATOR #2 DISINFECTION BLDG
13		HIGH CL ₂ RESIDUAL PLANT EFFLUENT DISINFECTION BLDG
14		SIGNAL COMMON
15		LOW H ₂ O PRESS CHLORINATORS INJECTOR WATER DISINFECTION BLDG
16		LOW D.O. PLANT EFFLUENT OUTFALL STRUCTURE
17		SIGNAL COMMON
18		LOW H ₂ O PRESS SULPHONATOR INJECTOR WATER DISINFECTION BLDG
19		MAINTENANCE UNIT HEATER #1
20		SIGNAL COMMON
21		CARBON MONOXIDE EXHAUST FAN
22		FAN-3
23		SIGNAL COMMON
24		AIR COMPRESSOR

CABINET NO. HL3
CPA NO. 2
TERM BLOCK NO. 7
CARD TYPE PKID21

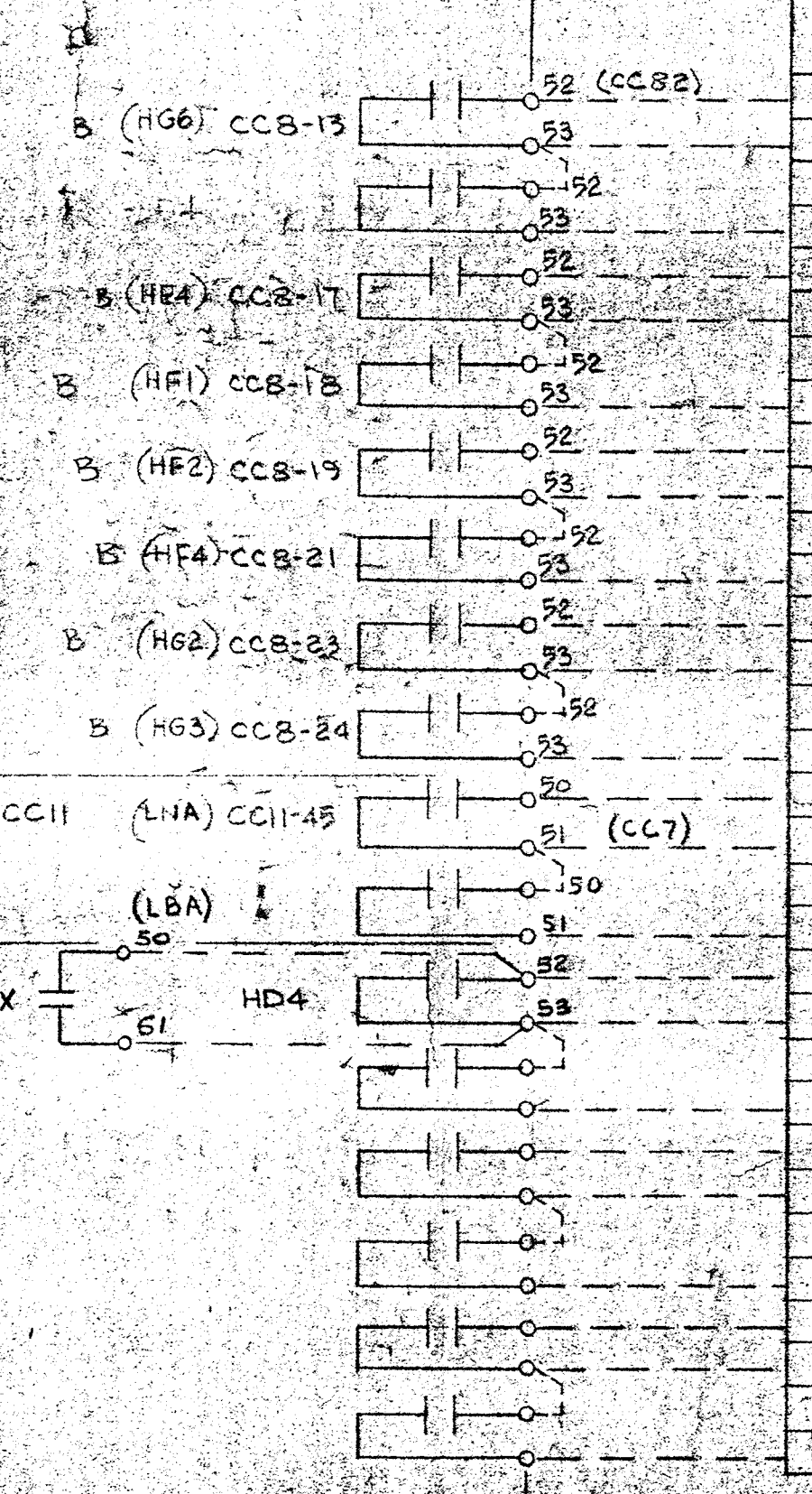
MCC CCB
(ELEC. RM. MAINT. BLDG.) (HGI) CCB-4



TERM	TAG	NAME
1		LOSS OF LUBE WATER EFFLUENT PUMP #1 FILTRATION BLDG
2		SIGNAL COMMON
3		CHLORINE LEAK CHLORINE STORAGE AREA DISINFECTION BLDG
4		CHLORINE LEAK CHLORINATOR ROOM DISINFECTION BLDG
5		SIGNAL COMMON
6		SULPHUR DIOXIDE LEAK STORAGE AREA DISINFECTION BLDG
7		SULPHUR DIOXIDE LEAK SULPHONATOR ROOM DISINFECTION BLDG
8		SIGNAL COMMON
9		LOW WEIGHT SO ₂ SCALE #1 DISINFECTION BLDG
10		LOW WEIGHT SO ₂ SCALE #2 DISINFECTION BLDG
11		SIGNAL COMMON
12		LOW WEIGHT SO ₂ SCALE #3 DISINFECTION BLDG
13		LOW WEIGHT CHLORINE SCALE #1 DISINFECTION BLDG
14		SIGNAL COMMON
15		LOW WEIGHT CHLORINE SCALE #2 DISINFECTION BLDG
16		LOW WEIGHT CHLORINE SCALE #3 DISINFECTION BLDG
17		SIGNAL COMMON
18		LOW WEIGHT CHLORINE SCALE #4 DISINFECTION BLDG
19		LOW WEIGHT CHLORINE SCALE #5 DISINFECTION BLDG
20		SIGNAL COMMON
21		LOW WEIGHT CHLORINE SCALE #6 DISINFECTION BLDG
22		LOW WEIGHT CHLORINE SCALE #7 DISINFECTION BLDG
23		SIGNAL COMMON
24		LOW WEIGHT CHLORINE SCALE #8 DISINFECTION BLDG

CABINET NO. HL3
CPA NO. 1
TERM BLOCK NO. 8
CARD TYPE PKID21

(D-DELETE)



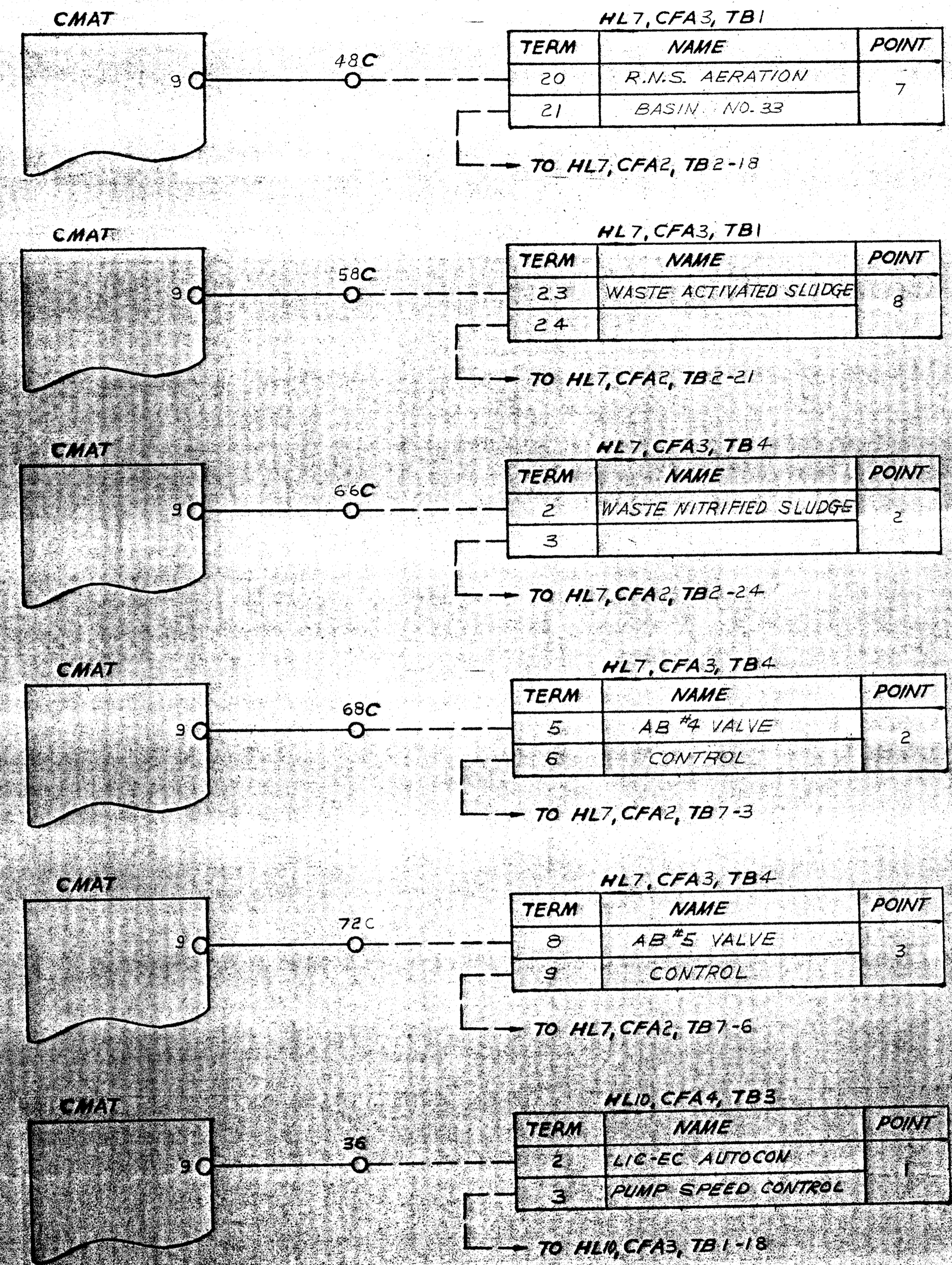
TERM	TAG	NAME
1		MAINTENANCE UNIT HEATER #1
2		SIGNAL COMMON
3		MAINTENANCE UNIT HEATER #2
4		SIGNAL COMMON
5		MAINTENANCE UNIT HEATER #3
6		SIGNAL COMMON
7		FAN-4
8		FAN-5
9		SIGNAL COMMON
10		DUCT HEATER
11		FAN UNIT HEATER #1
12		SIGNAL COMMON
13		FAN UNIT HEATER #2
14		PUMP ROOM RADIANT HEATER'S NO 10, 11, 12
15		SIGNAL COMMON
16		SUBSTATION VAULT VENT FAN
17		V. GARAGE VENT FAN
18		SIGNAL COMMON
19		
20		SIGNAL COMMON
21		
22		
23		
24		

(D-NAME CHG.)
CABINET NO. HL3
CPA NO. 2
TERM BLOCK NO. 2
CARD TYPE PKID21

LEGEND
 FIELD WIRING (NOT BY HONEYWELL)
 WIRING (BY HONEYWELL)
 BACK OF PANEL TERMINAL
 PNEUMATIC CONNECTION
 DEVICES (NOT BY HONEYWELL)
 20 PSIG. AIR SUPPLY

DATE: 8/28/82
 DRAFTER: STEVE SMITH
 CHK: [Signature]
 ENGR: [Signature]
 SCALE: 1/8" = 1'-0"
 DATE: 8/28/82
 SAVAGE WASTEWATER TREATMENT PLANT
 HOWARD COUNTY, MARYLAND
 ADDITION NO. 4 CONTRACT 505-S
 DWG. NO. 916D-28342-PI0-2 SHEET 3 OF 7

REV.	DATE	DESCRIPTION	CHK.	APPR.
E	7/16/82	AS INSTALLED		CE
D	8/28/82	ENGR. CHG.		ACM/CE
C	7/26/82	ENGR. CHG.		CE
B	8/25/82	NO CHG.		CE
A	8/25/82	ENGR. CHANGE'S		SWB/CE
I	8/28/82	ENGR. UPDATE		JANA



LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

REV	DATE	DESCRIPTION	CHK.	APPD.
A	7/19/63	NEW SMT. AS INSTALLED		

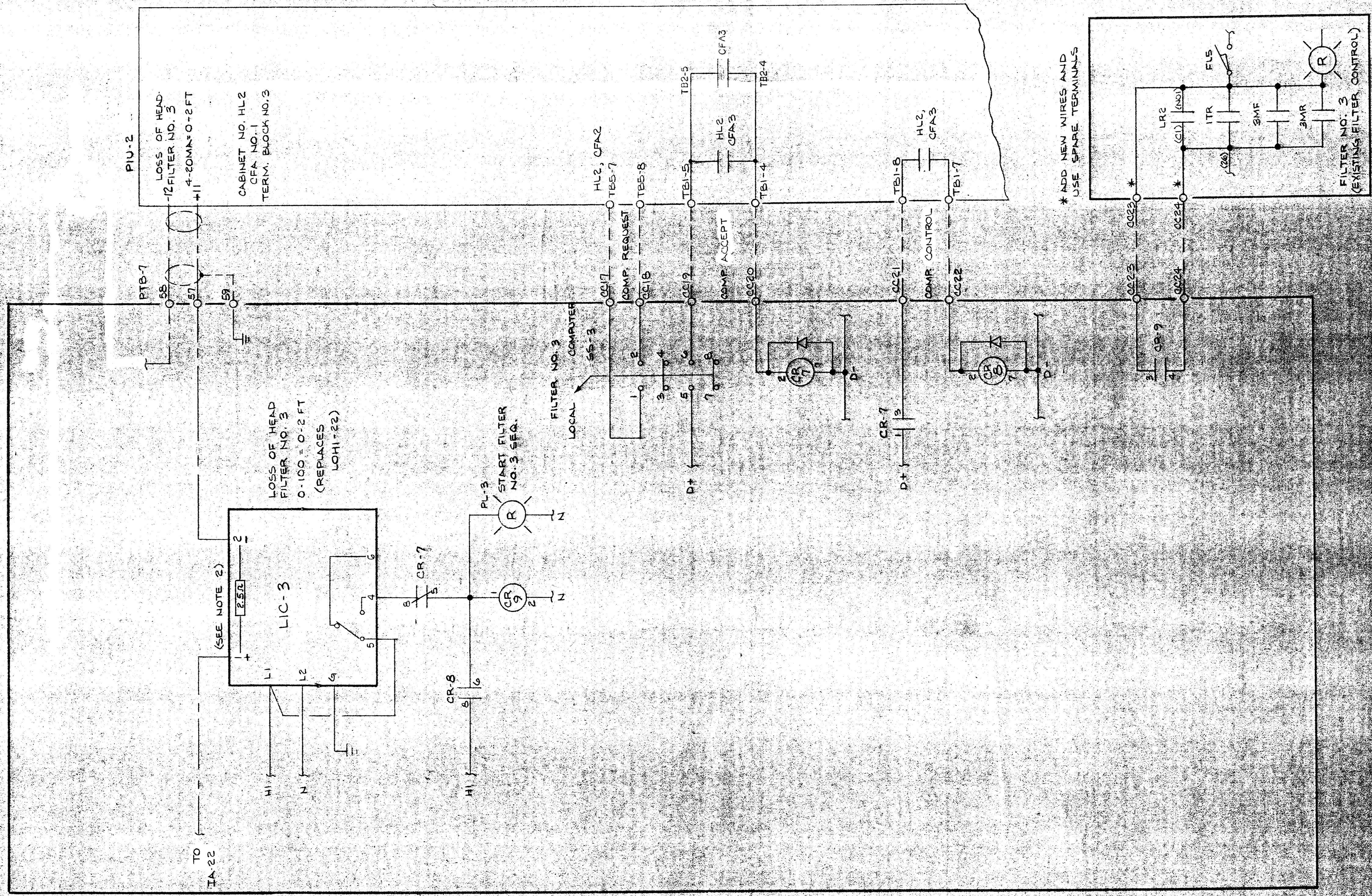
HONEYWELL INC.
VALLEY FORGE, PA.

SAVAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY, MARYLAND
ADDITION NO. 4 CONTRACT 535-S
CMAT VOLTAGE MONITORING

DRAFTER: M.E. DATE: 7/19/63
CHK: ENGR: SCALE: DWG. NO. 916D-22742 YM-1 SHT. 3 OF 3

NOTES:

- EXISTING WIRING INDICATES
- DISCONNECT AND REMOVE LOSS OF HEAD FILTER NO. 3 SUBSTITUTE LIMIT CONTROLLER AND RE-ATTACH SIGNAL WIRES.
- DO NOT CONNECT THE OUTPUT OF THIS POWER SUPPLY TO THE EXISTING SUPPLY.



LEGEND

- - -	FIELD WIRING (NOT BY HONEYWELL)	⊙	DEVICES (NOT BY HONEYWELL)
—	WIRING (BY HONEYWELL)	▲	20 PSIG. AIR SUPPLY
□	BACK OF PANEL TERMINAL		
○	PNEUMATIC CONNECTION		

REV.	DATE	DESCRIPTION	CHK.	APPD.
B	7/16/82	AS INSTALLED		CC
A	7/16/82	REL. FOR FABRICATION		CC

HONEYWELL INC.
VALLEY FORGE, PA.

DRAFTER	DATE	Savage Wastewater Treatment Plant
CHK.		Howard County, Maryland
ENGR.		ADDITION NO. 4, 305.5
SCALE		PROPOSAL 3, REV. 5; ITEM 1

OWG: 716D-28342-W2 SHT. 3 OF 4

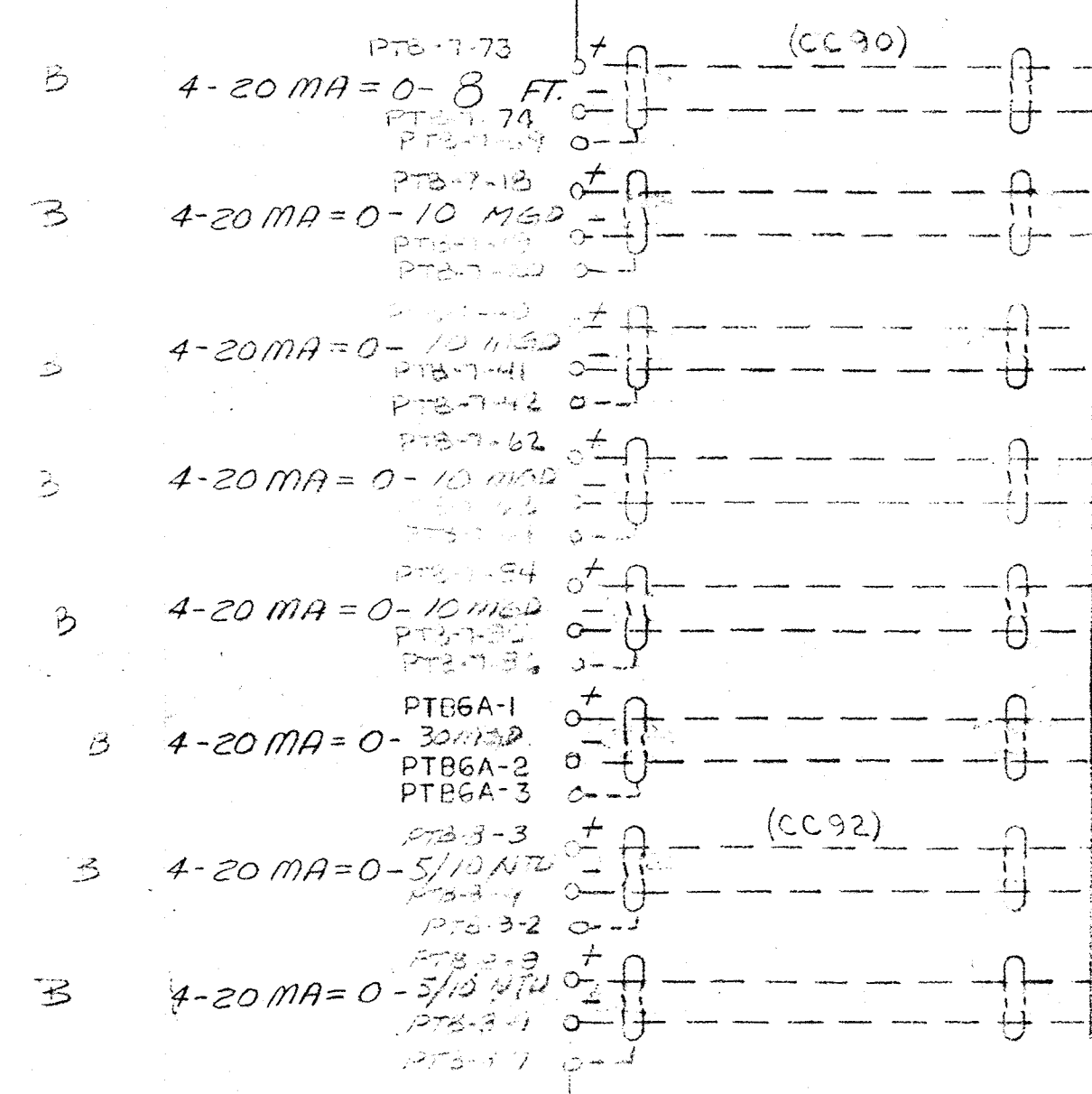
ANALOG INPUT UNIT

FILTER CONTROL PANEL

TERM	TAG	NAME
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CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 2
CARD TYPE PXIAZI

FILTER CONTROL PANEL



ANALOG INPUT UNIT

TERM	TAG	NAME
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CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 4
CARD TYPE PXIAZI

ANALOG INPUT UNIT

TERM	TAG	NAME
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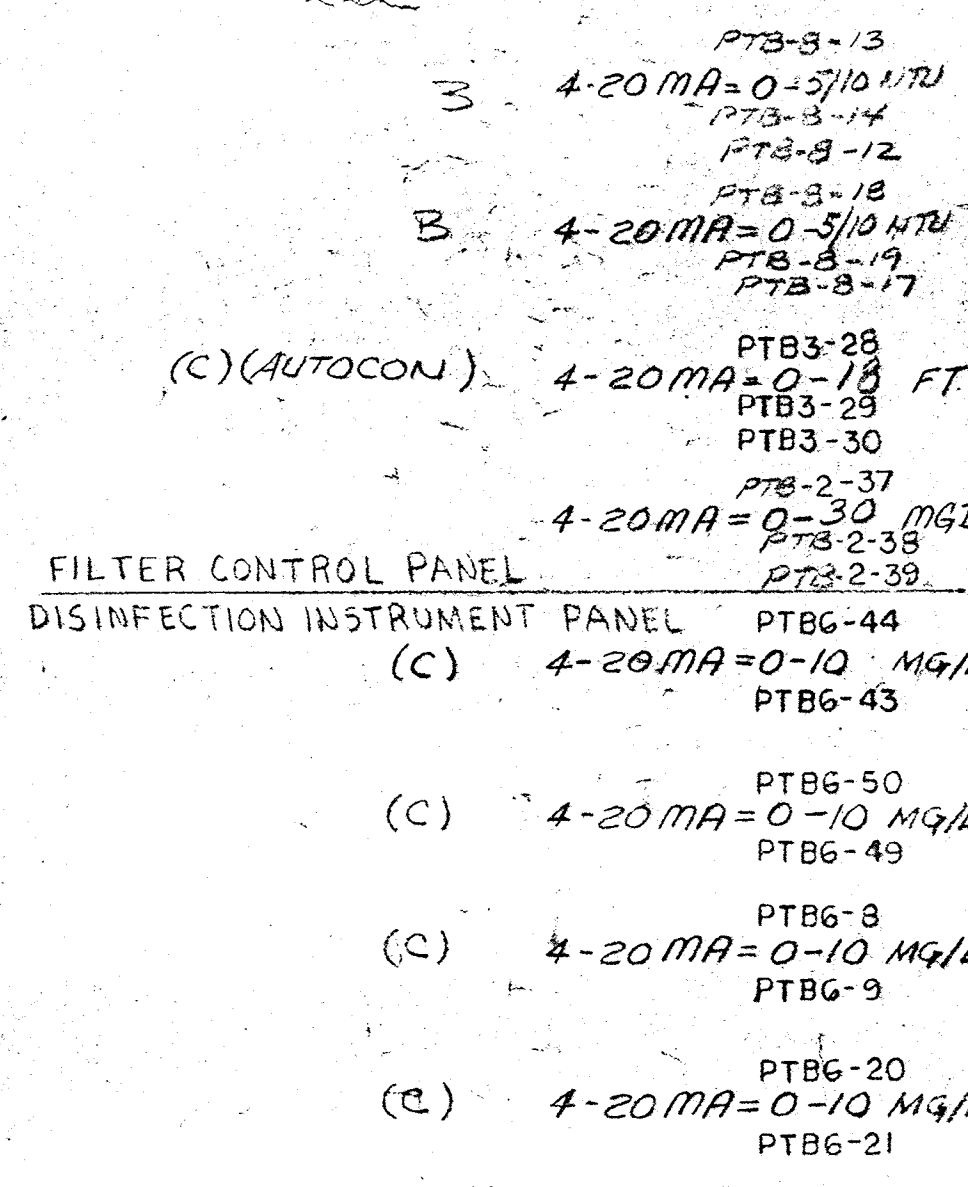
CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 3
CARD TYPE PXIAZI

ANALOG INPUT UNIT

TERM	TAG	NAME
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CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 5
CARD TYPE PXIAZI

FILTER CONTROL PANEL
DISINFECTION INSTRUMENT PANEL



D	7/16/82	AS INSTALLED	
C	9/20/81	ENGR CHG.	
B	2/28/81	NO CHG.	
A	2/27/81	ENG. CHANGES	
1	9/27/80	ENG. UPDATE	
REV.	DATE	DESCRIPTION	CHK. APPD.

HONEYWELL INC.
VALLEY FORGE, PA.

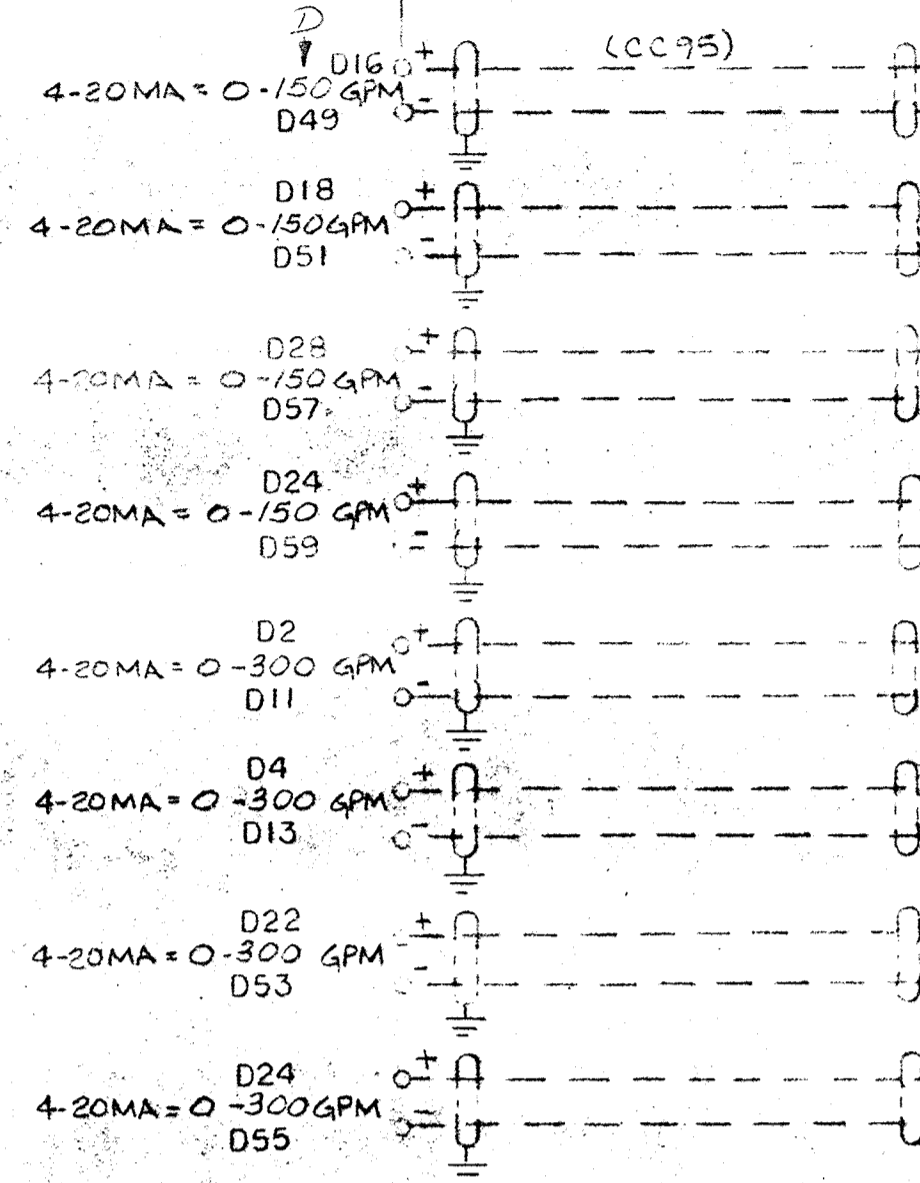
LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

DRAFTER	LTS	DATE	9/21/80
CHK.	NA		
ENGR	R. Entel		
SCALE	AS		

DATE: 9/21/80
Savage Wastewater Treatment Plant
HOWARD COUNTY, MARYLAND
ADDITION NO. 4 CONTRACT 505-S
DWG. NO. 91GD-28342-PIU-2 SHY 4 OF 7

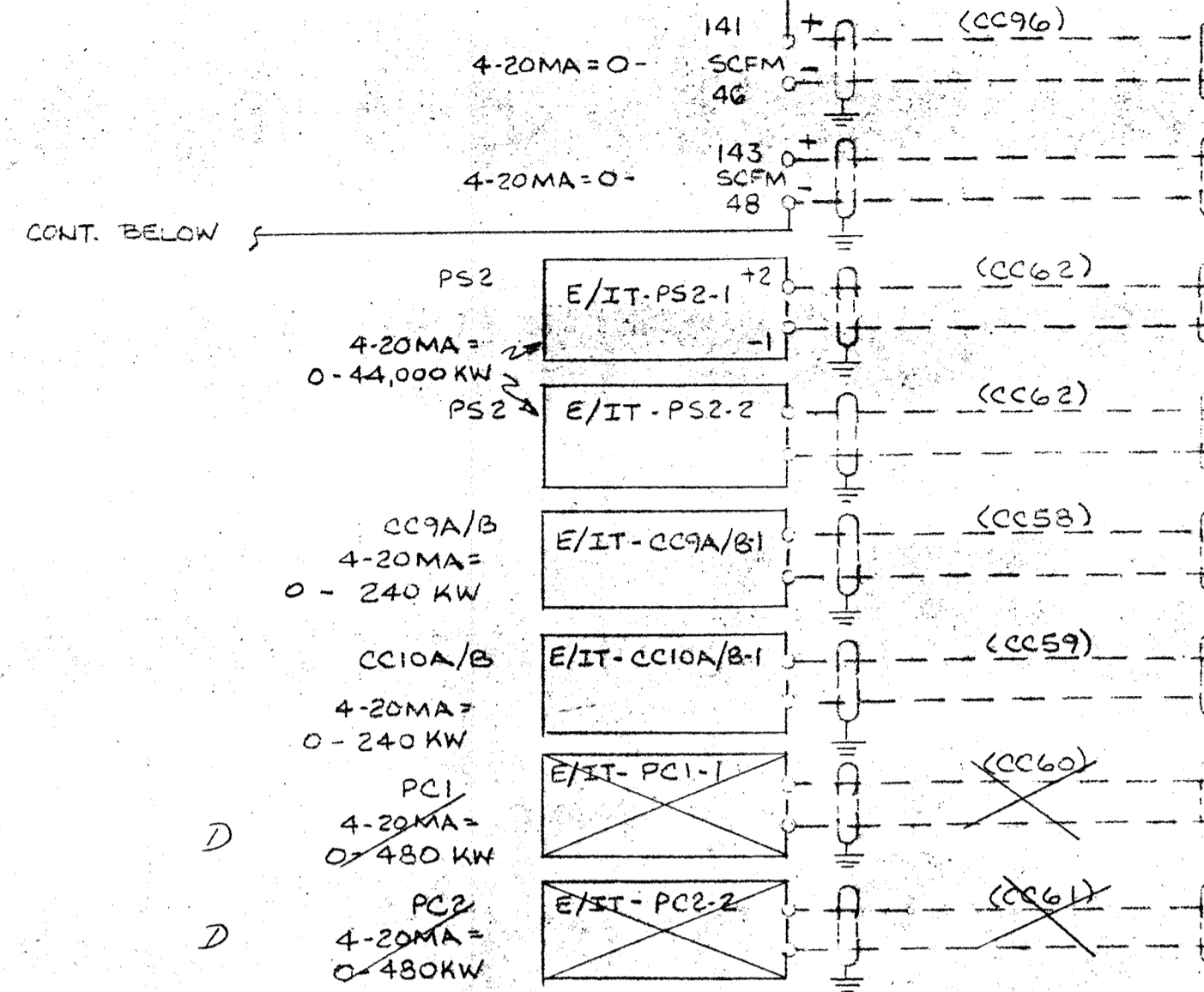
DEWATERING BUILDING
INSTRUMENT PANEL BOARD



TERM	TAG	NAME
1.		
2.		THICKENED W.A.S. & W.N.S. FLOW-THICKENER & DIGESTER #1
3.		THICKENED W.A.S. & W.N.S. FLOW-THICKENER & DIGESTER #1
4.		
5.		THICKENED W.A.S. & W.N.S. FLOW-THICKENER & DIGESTER #2
6.		THICKENED W.A.S. & W.N.S. FLOW-THICKENER & DIGESTER #2
7.		
8.		DIGESTED SLUDGE FLOW TO BELT FILTER PRESS #1
9.		DIGESTED SLUDGE FLOW TO BELT FILTER PRESS #1
10.		
11.		DIGESTED SLUDGE FLOW TO BELT FILTER PRESS #2
12.		DIGESTED SLUDGE FLOW TO BELT FILTER PRESS #2
13.		
14.		UNTHICKENED W.A.S. & W.N.S. FLOW TO FLOTATION THICKENER #1
15.		UNTHICKENED W.A.S. & W.N.S. FLOW TO FLOTATION THICKENER #1
16.		
17.		UNTHICKENED W.A.S. & W.N.S. FLOW TO FLOTATION THICKENER #2
18.		UNTHICKENED W.A.S. & W.N.S. FLOW TO FLOTATION THICKENER #2
19.		
20.		PRIMARY SLUDGE FLOW-THICKENER & DIGESTER #1
21.		PRIMARY SLUDGE FLOW-THICKENER & DIGESTER #1
22.		
23.		PRIMARY SLUDGE FLOW-THICKENER & DIGESTER #2
24.		PRIMARY SLUDGE FLOW-THICKENER & DIGESTER #2

CABINET NO. HL4
CFA NO. 1
TERM BLOCK NO. 1
CARD TYPE PXIAZI

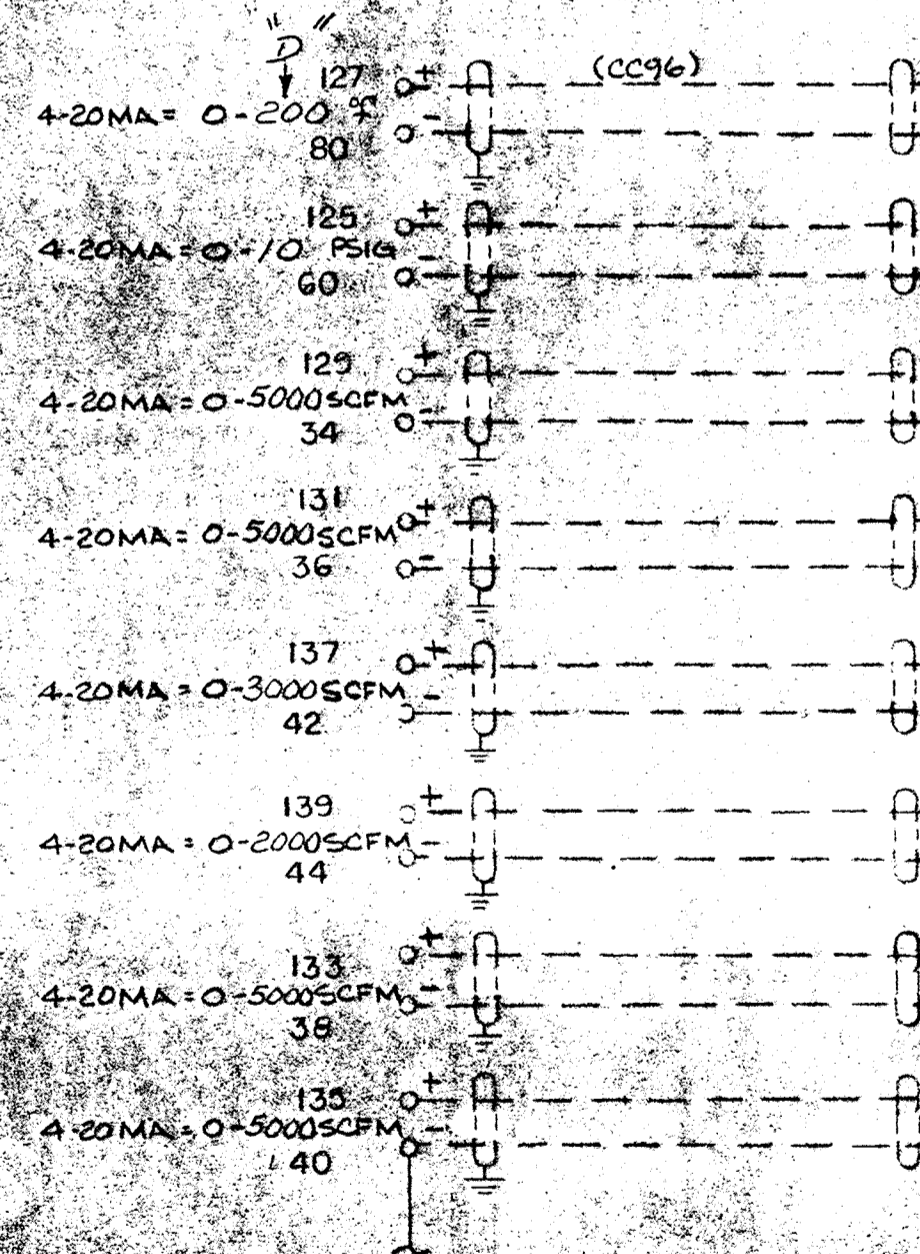
DEWATERING BUILDING
INSTRUMENT PANEL BOARD



TERM	TAG	NAME
1.		
2.		AIR TO DIGESTER NO. 2, PASS 3
3.		AIR TO DIGESTER NO. 2, PASS 3
4.		
5.		AIR TO DIGESTER NO. 2, PASS 4
6.		AIR TO DIGESTER NO. 2, PASS 4
7.		
8.		PRIMARY SUBSTATION PS-2 2500 KW/AMR NO. 1
9.		PRIMARY SUBSTATION PS-2 2500 KW/AMR NO. 1
10.		
11.		PRIMARY SUBSTATION PS-2 2500 KW/AMR NO. 2
12.		PRIMARY SUBSTATION PS-2 2500 KW/AMR NO. 2
13.		
14.		MOTOR CONTROL CENTER-CC9A/B FEEDER NO. 1
15.		MOTOR CONTROL CENTER-CC9A/B FEEDER NO. 1
16.		
17.		MOTOR CONTROL CENTER-CC10A/B FEEDER NO. 1
18.		MOTOR CONTROL CENTER-CC10A/B FEEDER NO. 1
19.		
20.		POWER CENTER PC1 FEEDER NO. 1
21.		POWER CENTER PC1 FEEDER NO. 1
22.		
23.		POWER CENTER PC2 FEEDER NO. 1
24.		POWER CENTER PC2 FEEDER NO. 1

CABINET NO. HL4
CFA NO. 1
TERM BLOCK NO. 3
CARD TYPE PXIAZI

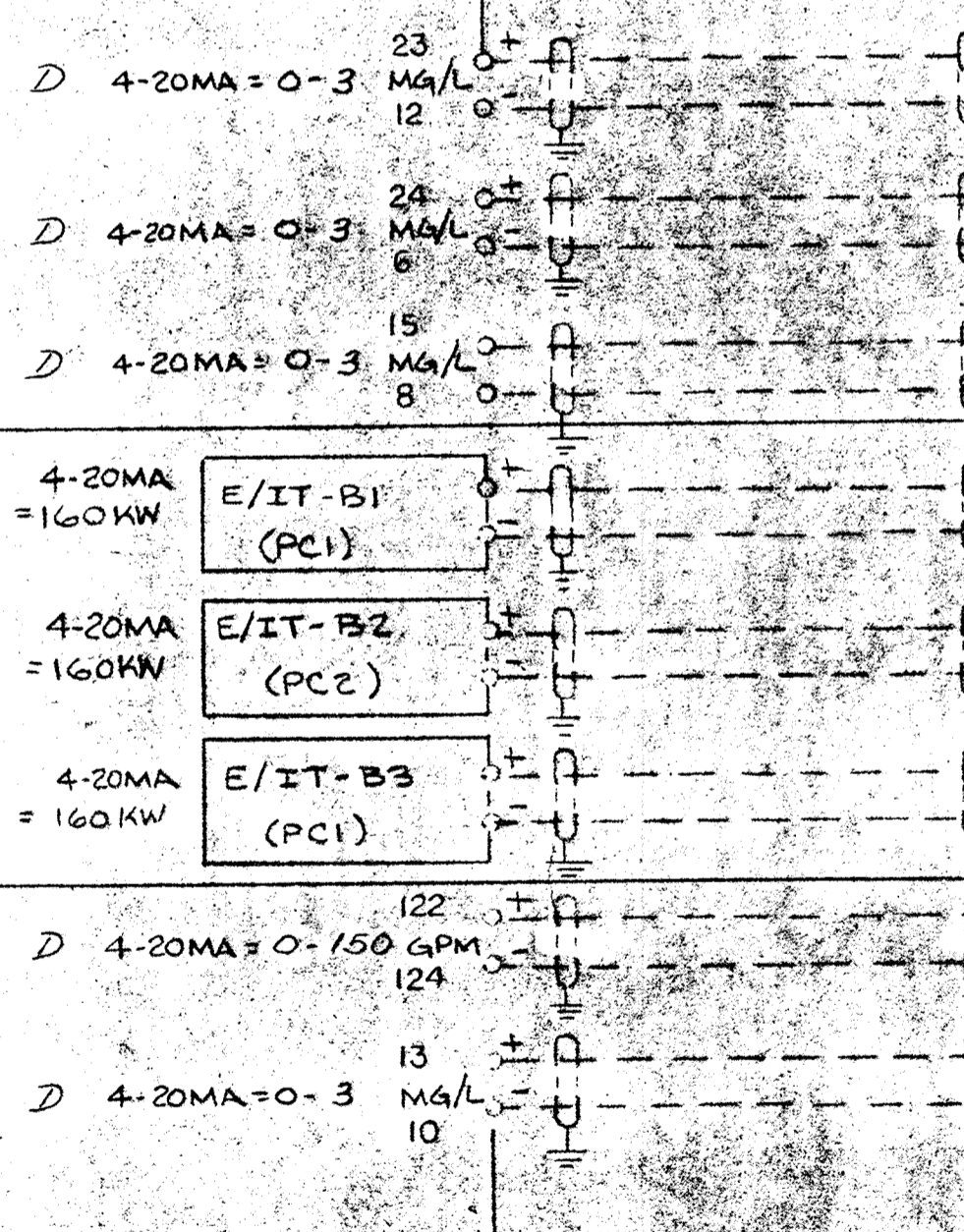
ANALOG INPUT UNIT



TERM	TAG	NAME
1.		
2.		DIGESTER AIR TEMPERATURE
3.		DIGESTER AIR TEMPERATURE
4.		
5.		DIGESTER AIR PRESSURE
6.		DIGESTER AIR PRESSURE
7.		
8.		AIR TO DIGESTER NO. 1, PASS 1
9.		AIR TO DIGESTER NO. 1, PASS 1
10.		
11.		AIR TO DIGESTER NO. 1, PASS 2
12.		AIR TO DIGESTER NO. 1, PASS 2
13.		
14.		AIR TO DIGESTER NO. 1, PASS 3
15.		AIR TO DIGESTER NO. 1, PASS 3
16.		
17.		AIR TO DIGESTER NO. 1, PASS 4
18.		AIR TO DIGESTER NO. 1, PASS 4
19.		
20.		AIR TO DIGESTER NO. 2, PASS 1
21.		AIR TO DIGESTER NO. 2, PASS 1
22.		
23.		AIR TO DIGESTER NO. 2, PASS 2
24.		AIR TO DIGESTER NO. 2, PASS 2

CABINET NO. HL4
CFA NO. 1
TERM BLOCK NO. 2
CARD TYPE PXIAZI

DEWATERING BUILDING
INSTRUMENT PANEL BOARD



TERM	TAG	NAME
1.		D.O. PROBE NO. 2, DIGESTER NO. 1
2.		D.O. PROBE NO. 2, DIGESTER NO. 1
3.		
4.		D.O. PROBE NO. 3, DIGESTER NO. 2
5.		D.O. PROBE NO. 3, DIGESTER NO. 2
6.		
7.		D.O. PROBE NO. 4, DIGESTER NO. 2
8.		D.O. PROBE NO. 4, DIGESTER NO. 2
9.		
10.		BLOWER NO. 1
11.		BLOWER NO. 1
12.		
13.		BLOWER NO. 2
14.		BLOWER NO. 2
15.		
16.		BLOWER NO. 3
17.		BLOWER NO. 3
18.		
19.		DIGESTED SLUDGE FLOW TO BELT FILTER PRESS #3
20.		DIGESTED SLUDGE FLOW TO BELT FILTER PRESS #3
21.		
22.		D.O. PROBE NO. 1, DIGESTER NO. 1
23.		D.O. PROBE NO. 1, DIGESTER NO. 1
24.		

CABINET NO. HL4
CFA NO. 1
TERM BLOCK NO. 4
CARD TYPE PXIAZI

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING BY HONEYWELL
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- DEVICES (NOT BY HONEYWELL)
- 20 PSIG. AIR SUPPLY

REV.	DATE	DESCRIPTION	DRG. APPR.
E	7/16/82	AS INSTALLED	
D	1/27/82	ENGR. CHG.	
C	1/27/82	ENGR. CHG.	

HONEYWELL INC.
VALLEY FORGE, PA.

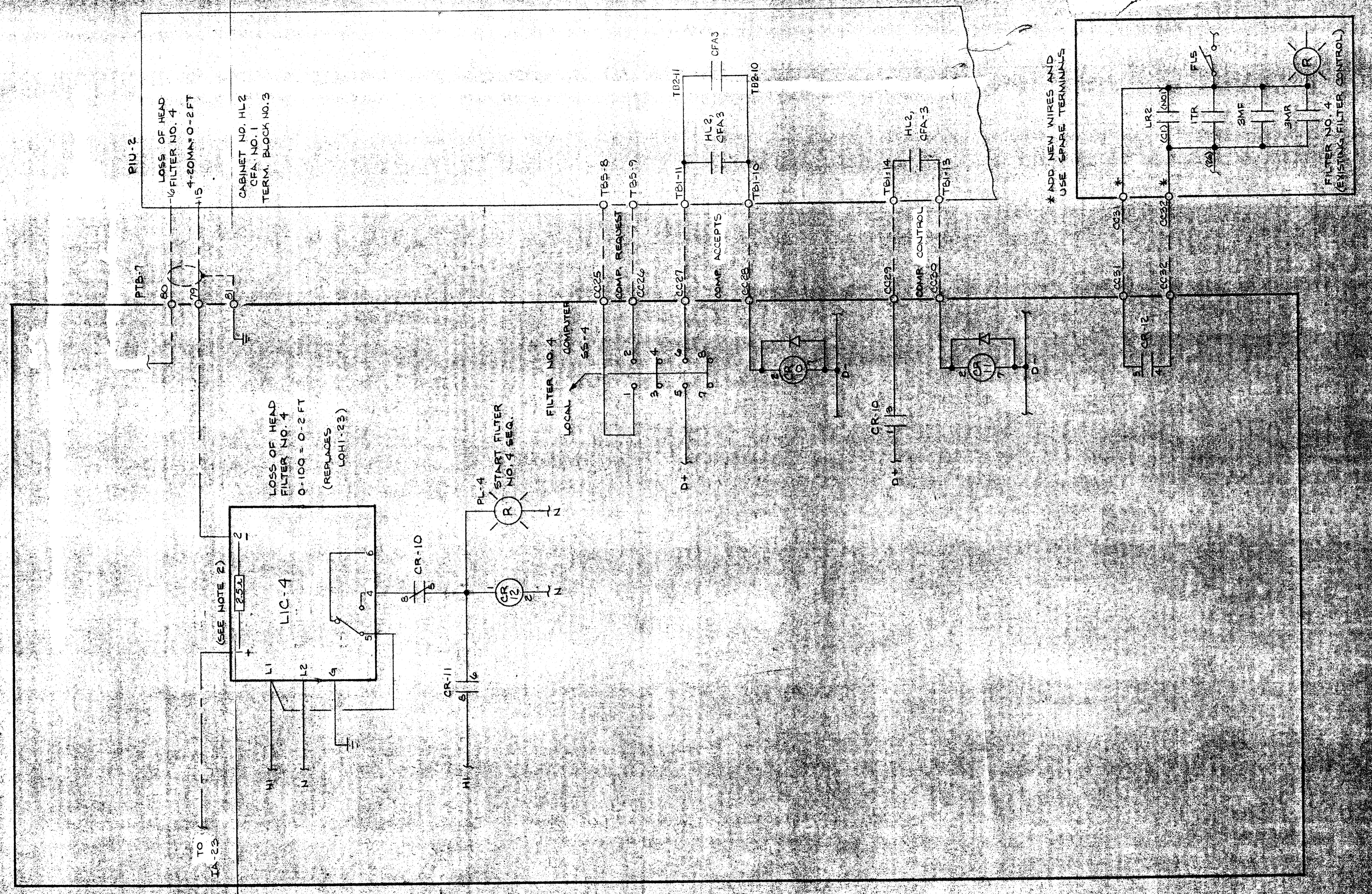
DRAFTER: STEVE SMITH
CHK: [Signature]
ENGR: [Signature]
SCALE: [Signature]

DATE: VALLEY FORGE, PA.
SAVAGE WASTEWATER TREATMENT PLANT HOWARD COUNTY, MARYLAND
ADDITION NO. 1 CONTRACT 503-3

DWG. NO. 3160-28342-PIU-3

NOTES:

- EXISTING WIRING INDICATES DISCONNECT AND REMOVE LINES OF HEAD FILTER NO. 4 SUBSTITUTE LIMIT CONTROLLER AND RE-ATTACH SIGNAL WIRES.
- DO NOT CONNECT THE OUTPUT OF THIS POWER SUPPLY TO THE EXISTING SUPPLY.



LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ▲ 20 PSIG. AIR SUPPLY

REV.	DATE	DESCRIPTION	CHK.	APPD.
B	7/16/82	AS INSTALLED		BC
A	5/21/81	REV. FOR FABRICATION		BC

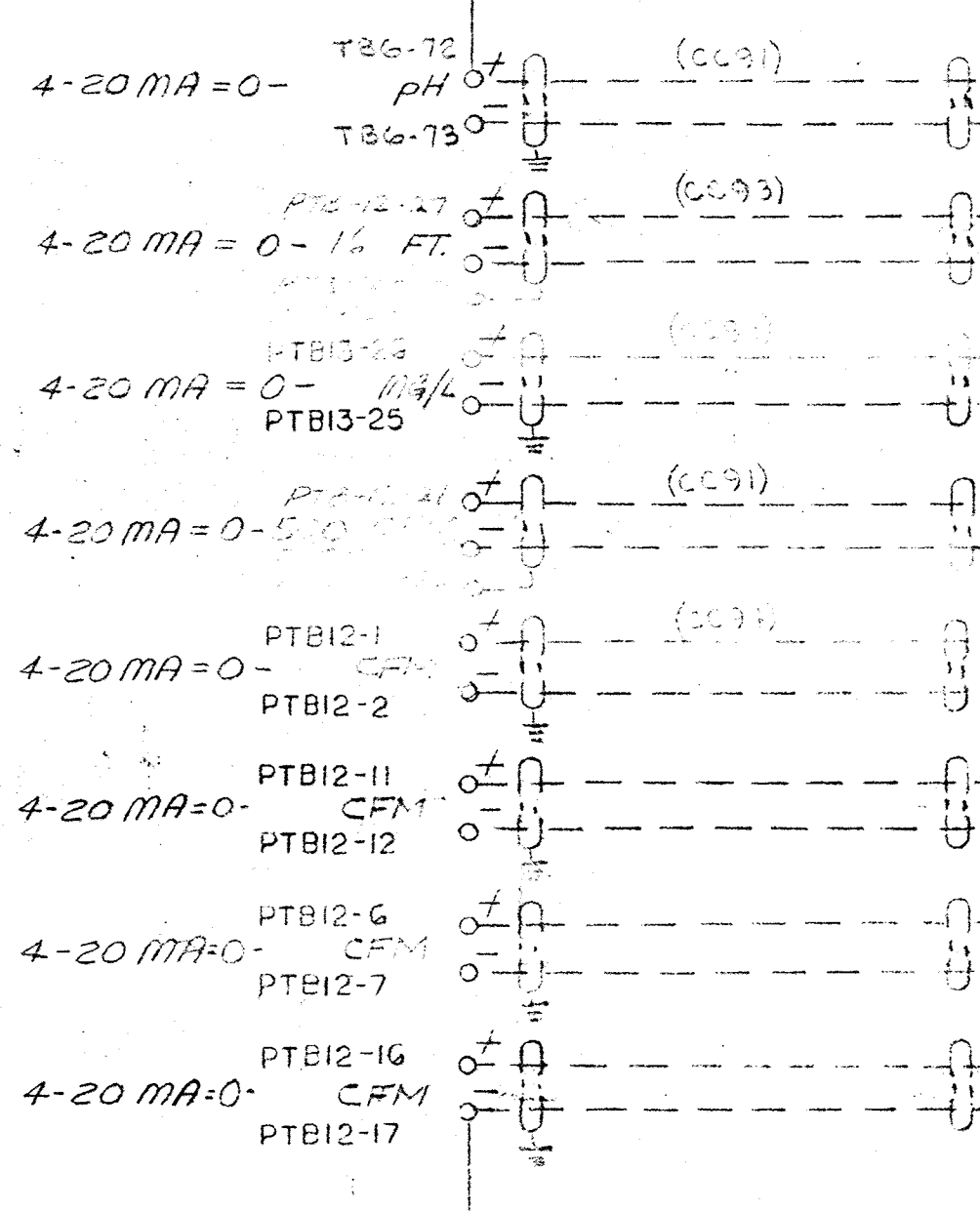
HONEYWELL INC.
VALLEY FORGE, PA.

DRAFTER:	DATE:	NO.	DATE:
CHK:			
ENGR:			
SCALE:			
Savage Wastewater Treatment Plant		HOWARD COUNTY, MARYLAND	
		ADDITION NO. 4, 505-S	
		PROPOSAL 9, REV. 5; ITEM 1.	
DWG. NO. 9160-28342-W2		SHT. 4 OF 4	

DISINFECTION INSTRUMENT PANEL

ANALOG INPUT UNIT

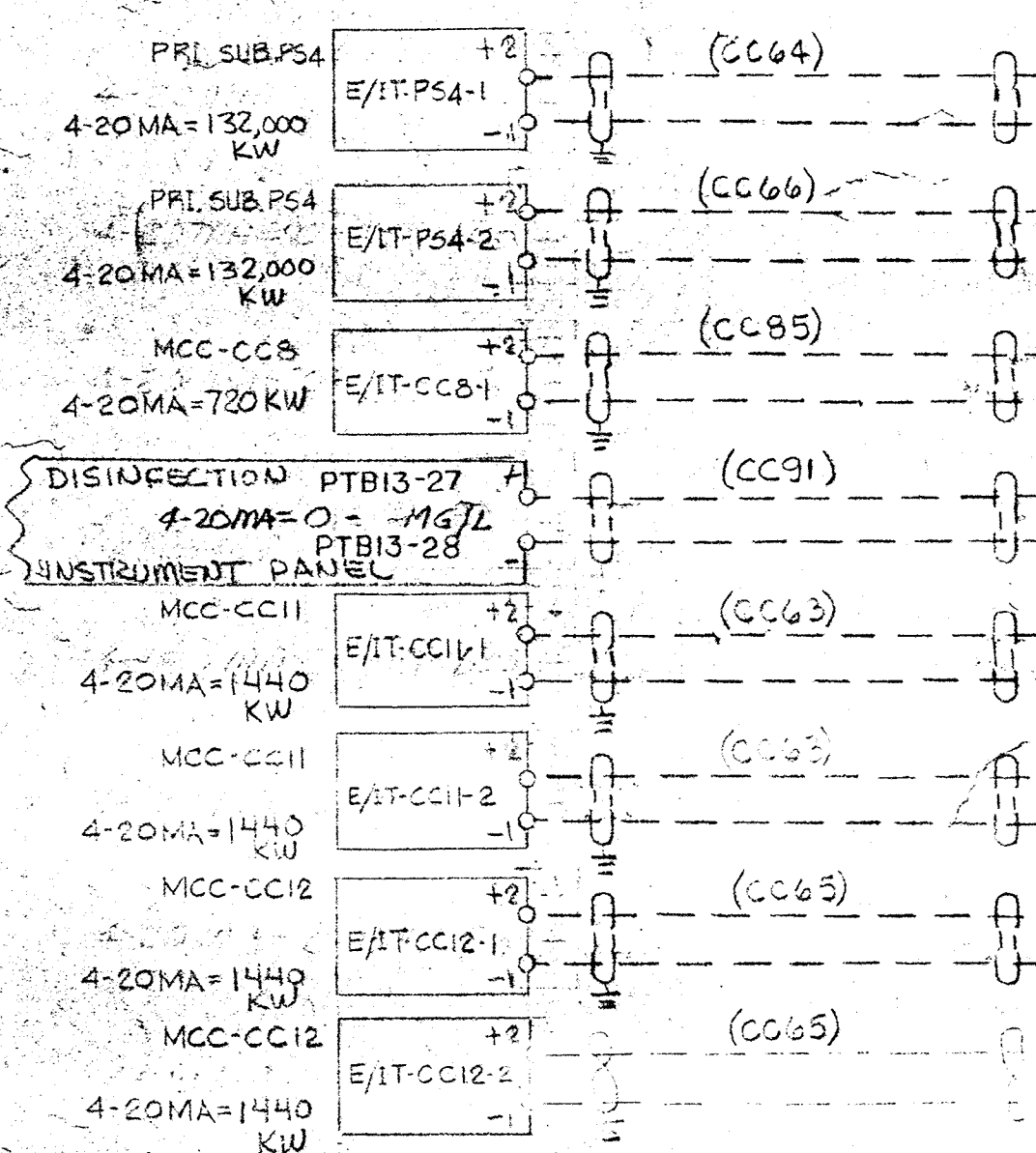
TERM	TAG	NAME
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CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 6
CARD TYPE PXIA21

ANALOG INPUT UNIT

TERM	TAG	NAME
1		
2		PRIMARY SUBSTATION PS-4 2500 KVA XFMR #1
3		PRIMARY SUBSTATION PS-4 2500 KVA XFMR #1
4		
5		PRIMARY SUBSTATION PS-4 2500 KVA XFMR #2
6		PRIMARY SUBSTATION PS-4 2500 KVA XFMR #2
7		
8		MOTOR CONTROL CENTER-CC8 FEEDER #1
9		MOTOR CONTROL CENTER-CC8 FEEDER #1
10		
11		AERATION TANK EFFLUENT D.O.
12		AERATION TANK EFFLUENT D.O.
13		
14		MOTOR CONTROL CENTER-CC11 FEEDER #1
15		MOTOR CONTROL CENTER-CC11 FEEDER #1
16		
17		MOTOR CONTROL CENTER-CC11 FEEDER #2
18		MOTOR CONTROL CENTER-CC11 FEEDER #2
19		
20		MOTOR CONTROL CENTER-CC12 FEEDER #1
21		MOTOR CONTROL CENTER-CC12 FEEDER #1
22		
23		MOTOR CONTROL CENTER-CC12 FEEDER #2
24		MOTOR CONTROL CENTER-CC12 FEEDER #2



CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 7
CARD TYPE PXIA21

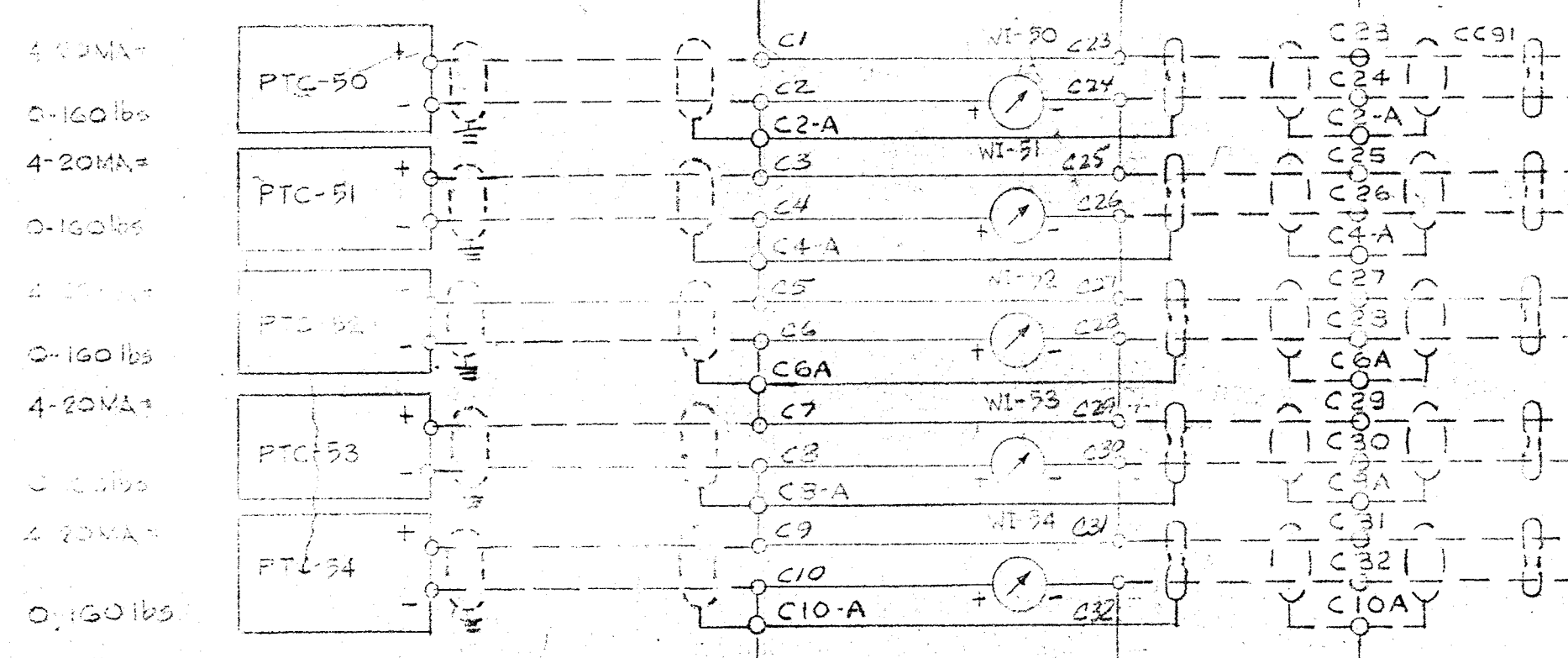
(EXISTING) DISINFECTION INSTRUMENT PANEL

ANALOG INPUT UNIT

TERM	TAG	NAME
1		
2		CHLORINE SCALE No 1 WEIGHT
3		
4		CHLORINE SCALE No 2 WEIGHT
5		
6		
7		
8		
9		
10		CHLORINE SCALE No 4 WEIGHT
11		
12		
13		CHLORINE SCALE No 5 WEIGHT
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

CABINET NO. HL2
CFA NO. 1
TERM BLOCK NO. 9
CARD TYPE PXIA31

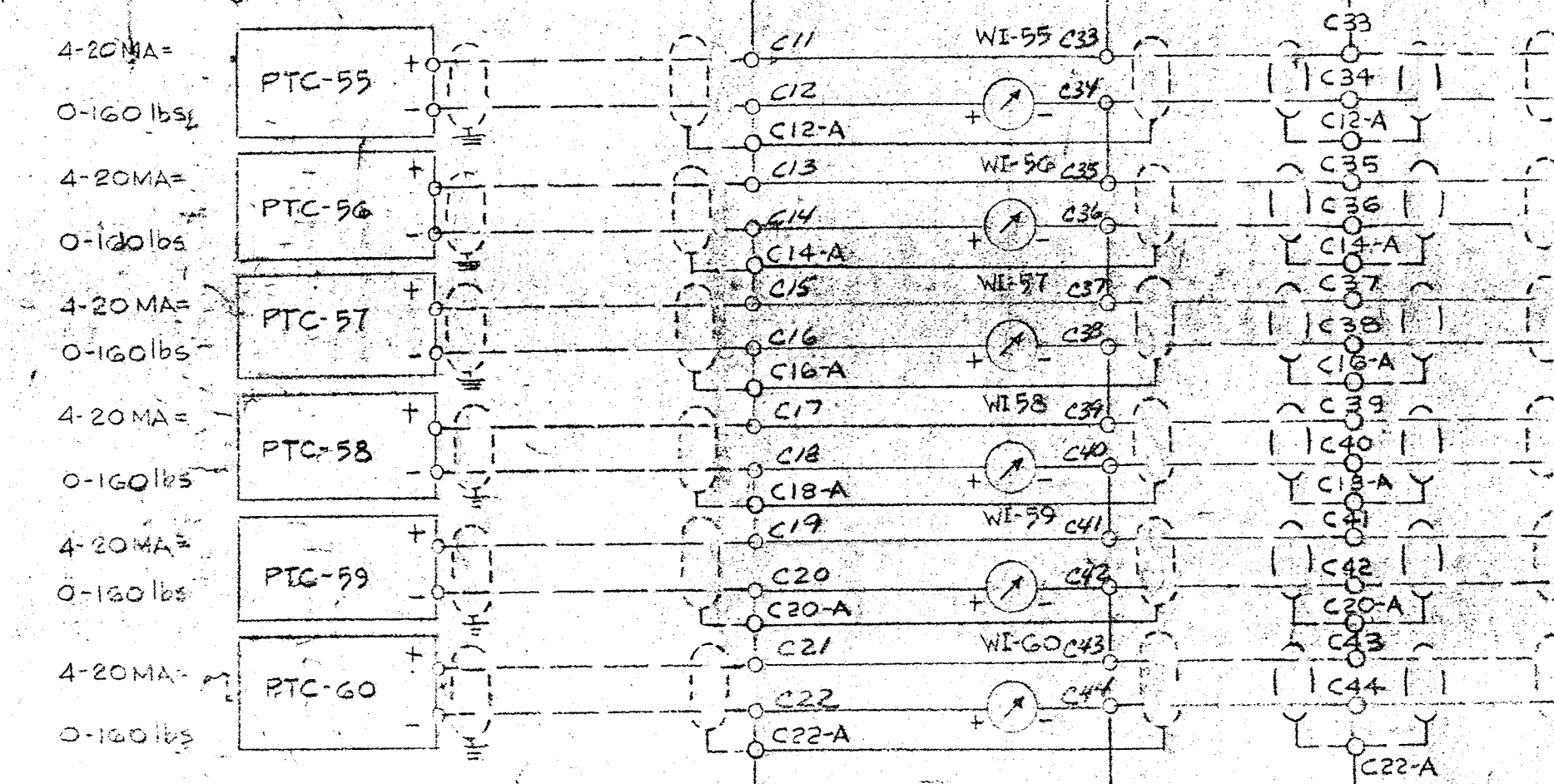
WEIGHT PANEL



ANALOG INPUT UNIT

TERM	TAG	NAME
1		CHLORINE SCALE No 6 WEIGHT
2		" " " " " " " "
3		" " " " " " " "
4		CHLORINE SCALE No 7 WEIGHT
5		" " " " " " " "
6		" " " " " " " "
7		CHLORINE SCALE No 8 WEIGHT
8		" " " " " " " "
9		" " " " " " " "
10		SULPHUR DIOXIDE SCALE No 1
11		" " " " " " " "
12		" " " " " " " "
13		SULPHUR DIOXIDE SCALE No 2
14		" " " " " " " "
15		" " " " " " " "
16		SULPHUR DIOXIDE SCALE No 3
17		" " " " " " " "
18		" " " " " " " "
19		" " " " " " " "
20		" " " " " " " "
21		" " " " " " " "
22		" " " " " " " "
23		" " " " " " " "
24		" " " " " " " "

CABINET NO. HL2
CFA NO. 2
TERM BLOCK NO. 1
CARD TYPE PXIA31



NOTE: TERMINALS C1 TO C44 ARE ADDED BY HONEYWELL (PRO. 9)

REV	DATE	DESCRIPTION	CHK	APPD
G	7/16/82	AS INSTALLED		
F	7/16/82	ENGR. CHG.		
E	13 Jun 81	Car. Ltr. - Resub. Per Record		
D	9/23/81	CHG. REC PER #9		

REV	DATE	DESCRIPTION	CHK	APPD
C	7/16/82	ENGR. CHG.		
B	13 Jun 81	Car. Ltr. - Resub. Per Record		
A	9/23/81	CHG. REC PER #9		

HONEYWELL INC.
VALLEY FORGE, PA.

SAVAGE WASTEWATER TREATMENT PLANT

HOWARD COUNTY, MARYLAND
ADDITION NO. 4 CONTRACT 505-S

DWG. NO. 91GD-28342-PIU-2 SH. 5 OF 7

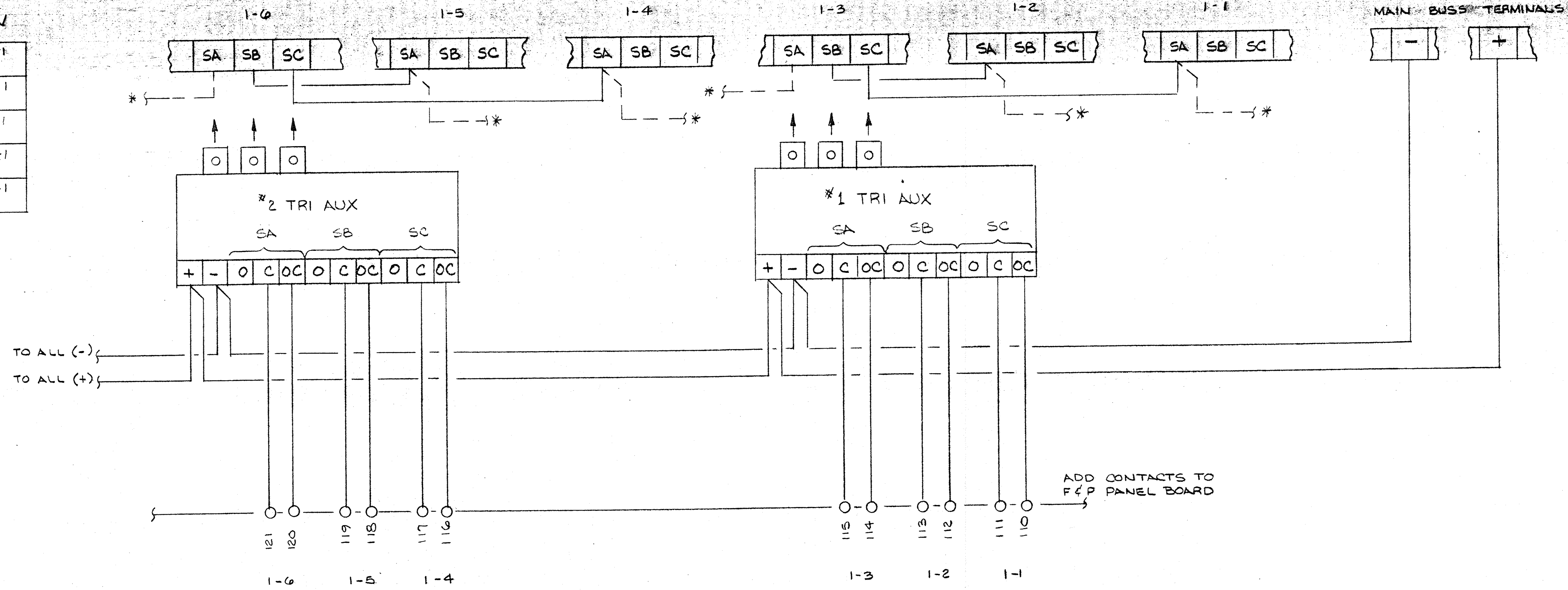
LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

ANN. 8-3 - REAR VIEW

1-6	1-5	1-4	1-3	1-2	1-1
*2			*1		
2-6	2-5	2-4	2-3	2-2	2-1
*4			*3		
3-6	3-5	3-4	3-3	3-2	3-1
*6			*5		
4-6	4-5	4-4	4-3	4-2	4-1
*8			*7		
5-6	5-5	5-4	5-3	5-2	5-1
*10			*9		

TOTAL 10 TRI-AUX
MDL 70 TCF1-12



* WIRING BY PANEL MANUFACTURER
BLANK WINDOWS MAY NOT HAVE THESE WIRES

C - (PRO. IS WORK)

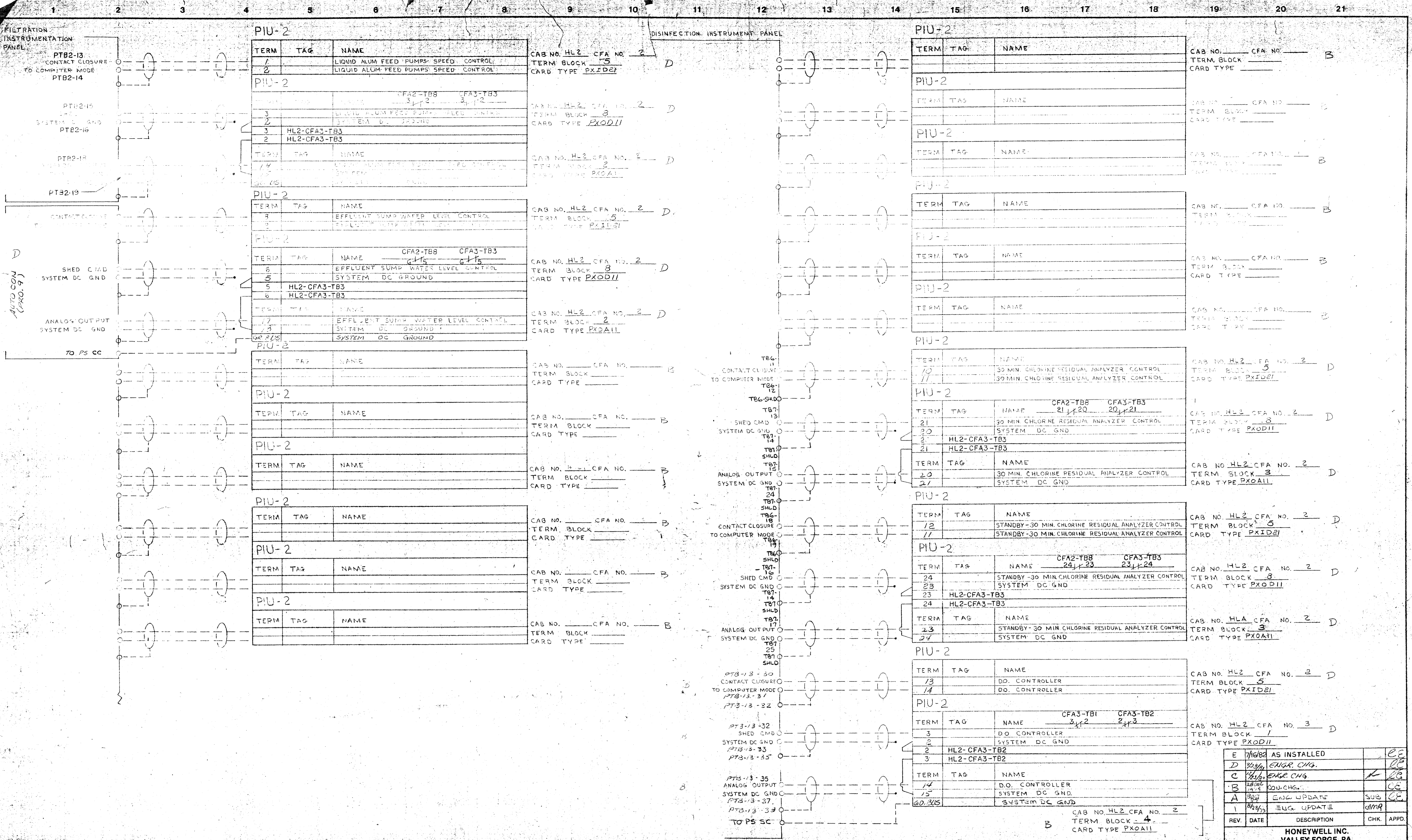
LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

D	7/16/80	AS INSTALLED		CC
C	7/16/80	SEE NOTE		CC
B	7/16/80	NEW SHEET		CC
REV.	DATE	DESCRIPTION	CHK.	APPO.

HONEYWELL INC.
VALLEY FORGE, PA.

DRAWN	DATE	7/16/80	SAVAGE WASTEWATER TREATMENT PLANT
CHK.	DATE	7/17/80	HOWARD COUNTY, MARYLAND
ENGR.	DATE	7/17/80	ADDITION NO. 4 CONTRACT 505-3 (ANN. 8-3)
SCALE	DWG. NO.	916D-28342-PIU-3	SHT. 5 OF 10



TERM	TAG	NAME
1		LIQUID ALUM FEED PUMPS SPEED CONTROL
2		LIQUID ALUM FEED PUMPS SPEED CONTROL

TERM	TAG	NAME
3		LIQUID ALUM FEED PUMPS FEED CONTROL
2		BY EM. DC. PRESSURE

TERM	TAG	NAME
14		LIQUID ALUM FEED PUMPS FEED CONTROL
15		BY EM. DC. PRESSURE

TERM	TAG	NAME
3		EFFLUENT SUMP WATER LEVEL CONTROL
2		EFFLUENT SUMP WATER LEVEL CONTROL

TERM	TAG	NAME
5		EFFLUENT SUMP WATER LEVEL CONTROL
6		SYSTEM DC GROUND

TERM	TAG	NAME
17		EFFLUENT SUMP WATER LEVEL CONTROL
18		SYSTEM DC GROUND

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME

TERM	TAG	NAME
10		30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL
11		30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL

TERM	TAG	NAME
21		30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL
20		SYSTEM DC GND

TERM	TAG	NAME
20		30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL
21		SYSTEM DC GND

TERM	TAG	NAME
12		STANDBY-30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL
11		STANDBY-30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL

TERM	TAG	NAME
24		STANDBY-30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL
23		SYSTEM DC GND

TERM	TAG	NAME
23		STANDBY-30 MIN. CHLORINE RESIDUAL ANALYZER CONTROL
24		SYSTEM DC GND

TERM	TAG	NAME
13		DO. CONTROLLER
14		DO. CONTROLLER

TERM	TAG	NAME
3		DO. CONTROLLER
2		SYSTEM DC GND

TERM	TAG	NAME
14		DO. CONTROLLER
15		SYSTEM DC GND

REV.	DATE	DESCRIPTION	CHK.	APPD.
E	7/6/82	AS INSTALLED		EE
D	10/26/81	ENGR. CHG.		EE
C	1/25/82	ENGR. CHG.		EE
B	2/10/82	ENGR. CHG.		EE
A	3/22/82	ENGR. UPDATE	SUS	EE
1	8/22/79	EUG. UPDATE	CMR	

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- DEVICES (NOT BY HONEYWELL)
- 20 PSIG. AIR SUPPLY

HONEYWELL INC.
VALLEY FORGE, PA.

Savage Wastewater Treatment Plant

HOWARD COUNTY, MARYLAND
ADDITION NO. 4 CONTRACT 505-5

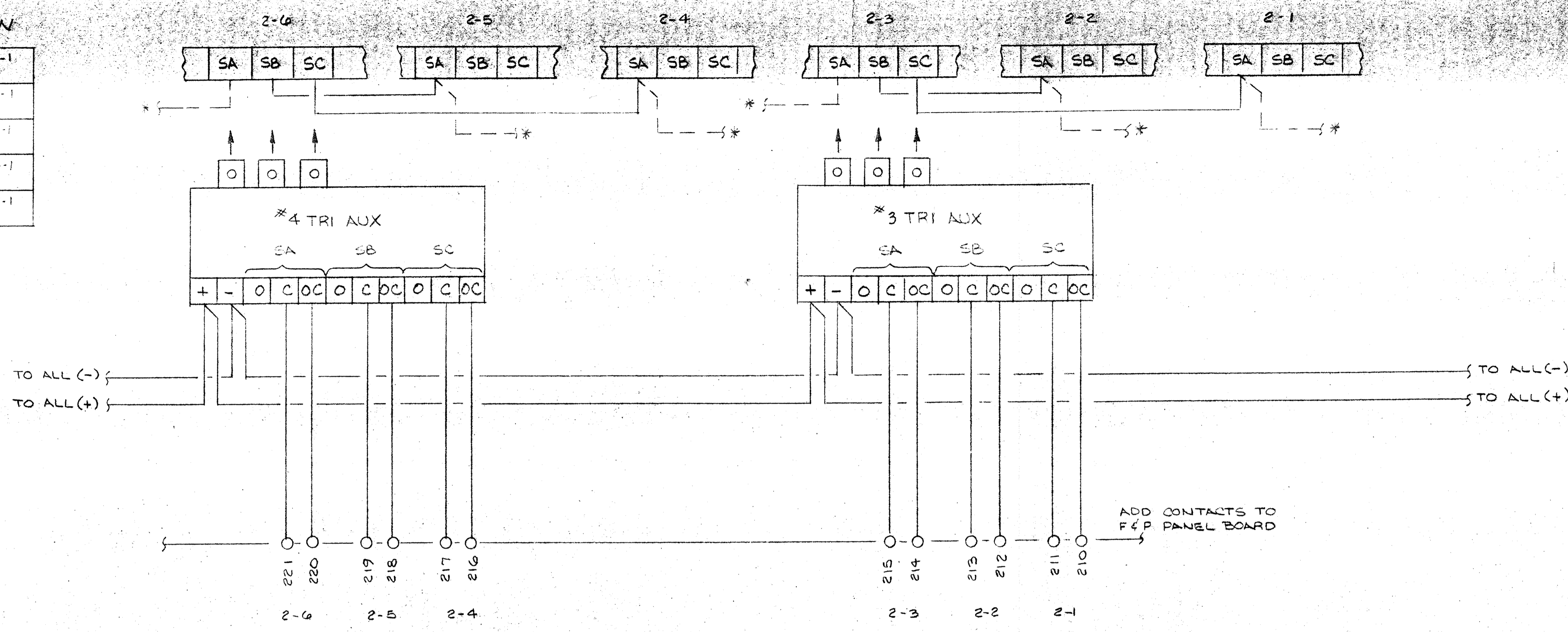
DWG. 916D-28342-PIU-2 SHT. 6 OF 7

DATE: 4/23/79
DRAFTER: E. WRL
CHK: [Signature]
ENGR: E. ENGR
SCALE: [Signature]

ANN 8-3 - REAR VIEW

1-6	1-5	1-4	1-3	1-2	1-1
*2			*1		
2-6	2-5	2-4	2-3	2-2	2-1
*4			*3		
3-6	3-5	3-4	3-3	3-2	3-1
*6			*5		
4-6	4-5	4-4	4-3	4-2	4-1
*8			*7		
5-6	5-5	5-4	5-3	5-2	5-1
*10			*9		

TOTAL 10 TRI-AUX
MDL TO TCFI-12



* WIRING BY PANEL MANUFACTURER
BLANK WINDOWS MAY NOT HAVE THESE WIRES

C- (PRO. 12 WORK)

LEGEND

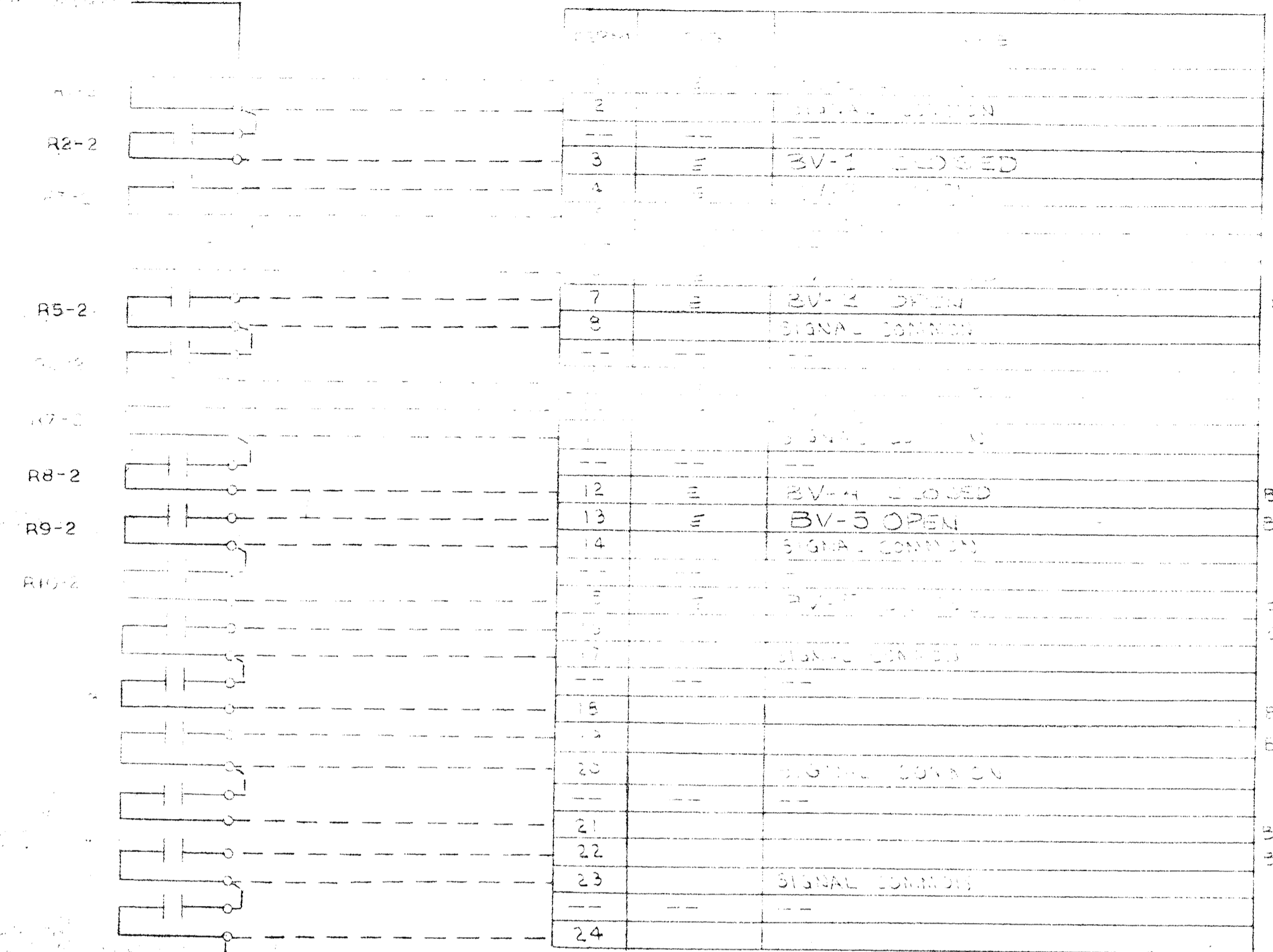
	FIELD WIRING (NOT BY HONEYWELL)		DEVICES (NOT BY HONEYWELL)
	WIRING (BY HONEYWELL)		20 PSIG. AIR SUPPLY
	BACK OF PANEL TERMINAL		
	PNEUMATIC CONNECTION		

DRAFTED	DATE	SAVAGE WASTEWATER TREATMENT PLANT	
CHK.	DATE	HOWARD COUNTY MARYLAND	
ENGR.	DATE	ADDITION NO 4 CONTRACT 505-S (ANN 8-3)	
SCALE		DWG. NO. 916D 28342-PIU-3	SHT. 60/10

REV.	DATE	DESCRIPTION	CHK.	APPD.
D	11/10/88	AS INSTALLED		CE
C	11/10/88	SEE NOTE		CE
B	11/10/88	NEW SHEET		CE

HONEYWELL INC.
VALLEY FORGE, PA.

FILTRATION CONTROL PANEL

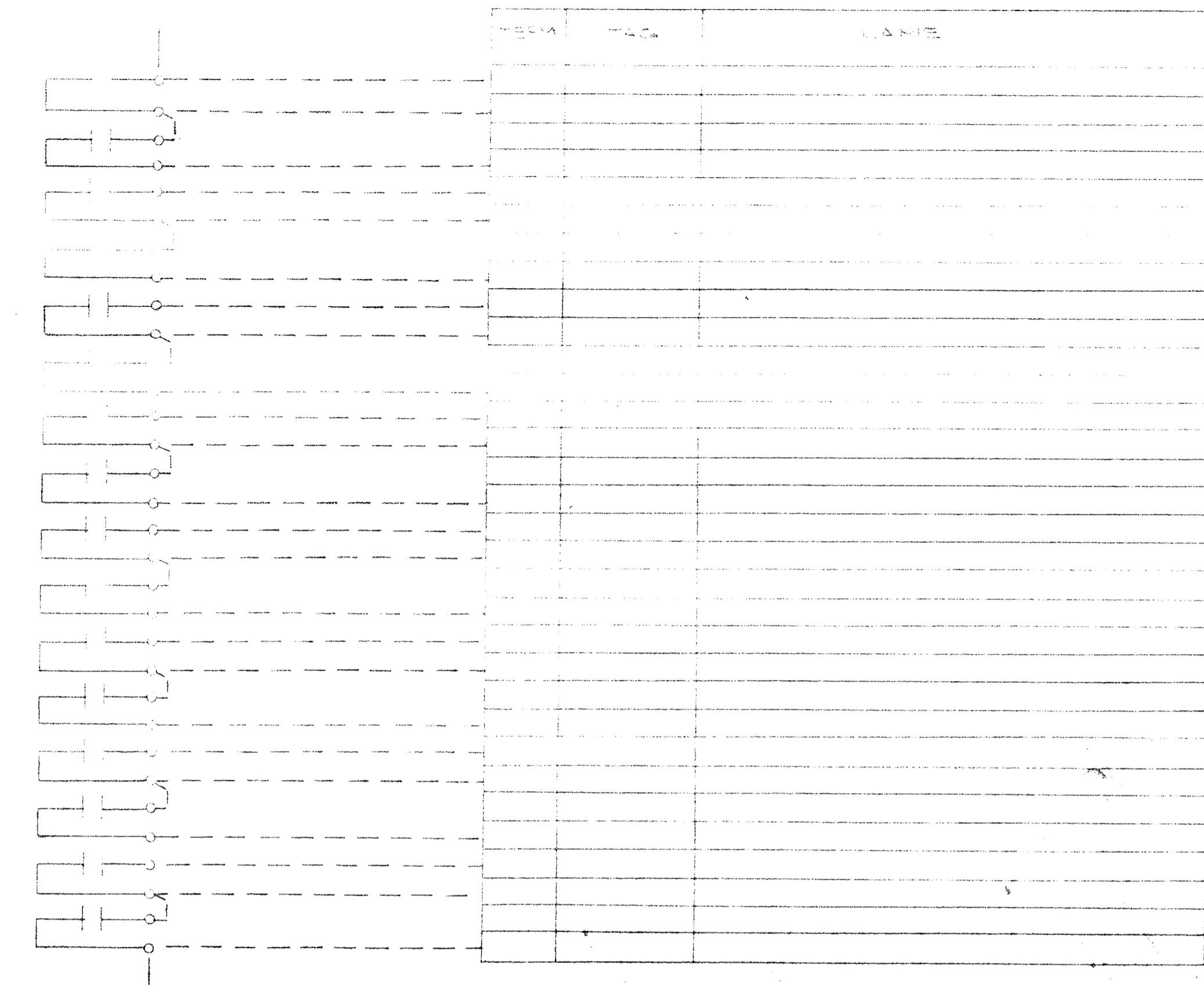


TERMINAL BLOCK NO. 6
CARD TYPE PXID21

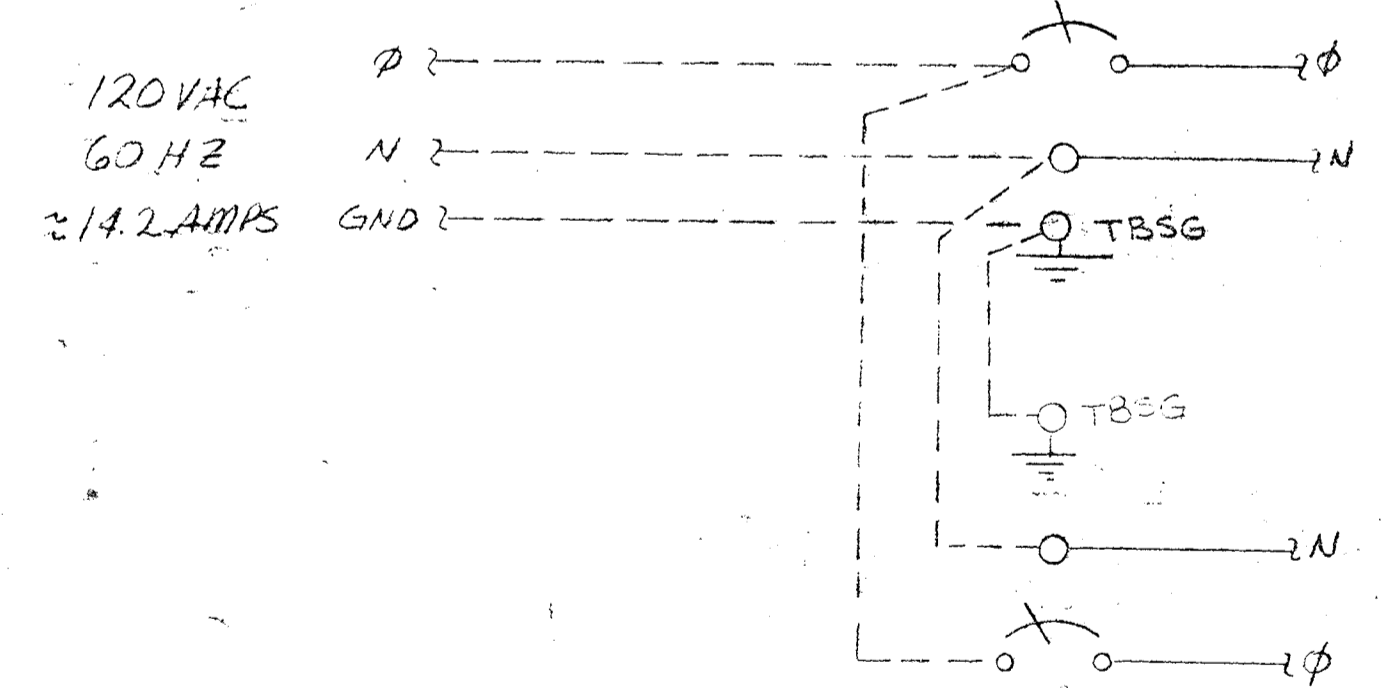
PROPOSAL 9

CABINET NO. HL2
CFA NO. 2
TERM. BLOCK NO. 7
CARD TYPE PXID21

TERM	TAG	NAME
1		
2		SIGNAL COMMON
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		



(PRO. 9)
NOTE: THE FOLLOWING TERMINALS ARE USED BUT SHOWN ON DWG. 916D-28342-W2, SHTS 1-4
HL2, CFA-2, TB5 (INPUT DIGITAL CARD)
4, 5, 6, 7, 8, 9
HL2, CFA-2, TB8 (OUTPUT DIGITAL CARD)
7, 8, 10, 11, 13, 14, 16, 17
HL2, CFA-3, TB1 (OUTPUT DIGITAL CARD)
4, 5, 7, 8, 10, 11



LEGEND
 FIELD WIRING (NOT BY HONEYWELL)
 WIRING (BY HONEYWELL)
 BACK OF PANEL TERMINAL
 PNEUMATIC CONNECTION
 ⊕ DEVICES (NOT BY HONEYWELL)
 ◀ 20 PSIG. AIR SUPPLY

REV.	DATE	DESCRIPTION	CHK.	APPD.
E	7/16/68	AS INSTALLED		CC
D	9/2/67	ENGR. CHG.		CC
C	7/26/66	ENGR. CHG.		CC
B	8/2/66	CON. CHG. - SUB. FOR RECORD	SUB-2	CC
A	8/2/66	Eng. Change	SUB-2	CC

HONEYWELL INC.
VALLEY FORGE, PA.

DRAFTER	DATE
WHS STEVE SMITH	8.9.19

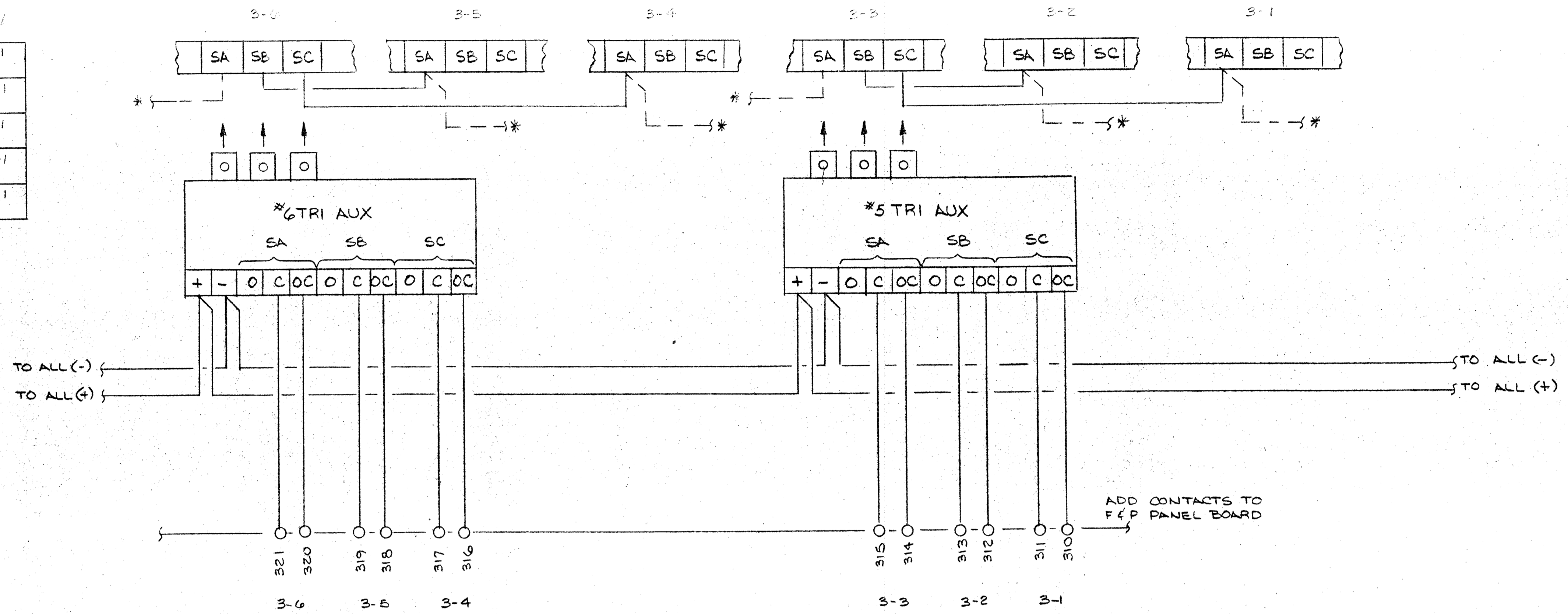
VALLEY FORGE, PA.
SAVAGE WASTEWATER TREATMENT PLANT HOWARD COUNTY, MARYLAND
ADDITION NO. 4 CONTRACT 505-5

DWG. NO. 916D-28342-PIU-2 SH. 1 OF 7

ANN. B-3 - REAR VIEW

1-6	1-5	1-4	1-3	1-2	1-1
*2			*1		
2-6	2-5	2-4	2-3	2-2	2-1
*4			*3		
3-6	3-5	3-4	3-3	3-2	3-1
*6			*5		
4-6	4-5	4-4	4-3	4-2	4-1
*8			*7		
5-6	5-5	5-4	5-3	5-2	5-1
*10			*9		

TOTAL 10 TRI-AUX
MDL 70 TCFI-12



* WIRING BY PANEL MANUFACTURER
BLANK WINDOWS MAY NOT HAVE THESE WIRES

ADD CONTACTS TO F&P PANEL BOARD

C- PRO. 12 WORK

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

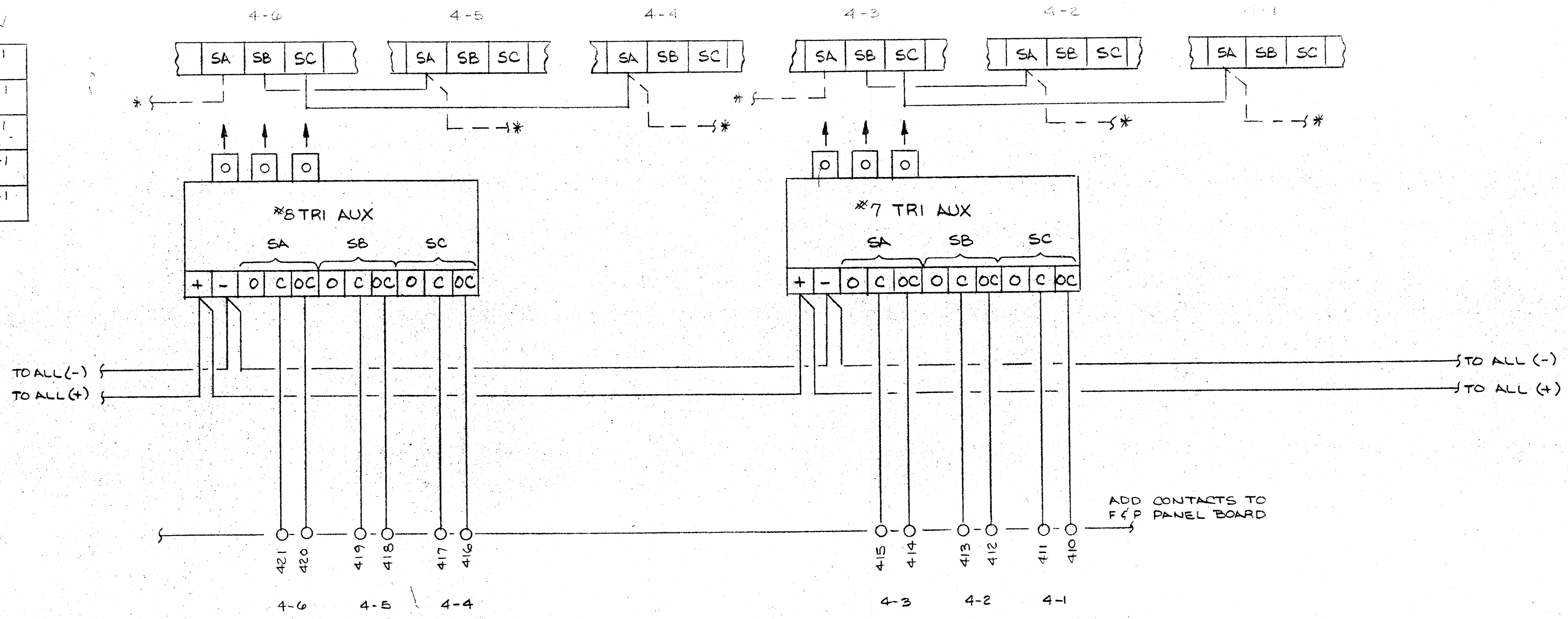
DRAFTER	DATE	HONEYWELL INC. VALLEY FORGE, PA.	
CHK.	DATE	SAVAGE WASTEWATER TREATMENT PLANT	
ENGR.	DATE	HOWARD COUNTY MARYLAND ADDITION NO. 4 CONTRACT 503-5 (ANN. B-3)	
SCALE	DWG. NO.	916D-28342-PIU-3	SHT. 70/10

REV.	DATE	DESCRIPTION	CHK.	APPD.
D	7/16/82	AS INSTALLED		
C	4/2/81	ADD NOTE		
B	7/22/80	NEW SHEET		

ANN. B-3 - REAR VIEW

1-6	1-5	1-4	1-3	1-2	1-1
*2			*1		
2-6	2-5	2-4	2-3	2-2	2-1
*4			*3		
3-6	3-5	3-4	3-3	3-2	3-1
*6			*5		
4-6	4-5	4-4	4-3	4-2	4-1
*8			*7		
5-6	5-5	5-4	5-3	5-2	5-1
*10			*9		

TOTAL 10 TRI-AUX
MDL 70 TCF1-12



* WIRING BY PANEL MANUFACTURER
BLANK WINDOWS MAY NOT HAVE THESE WIRES

ADD CONTACTS TO F&P PANEL BOARD

C- PRO. 12 WORK

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

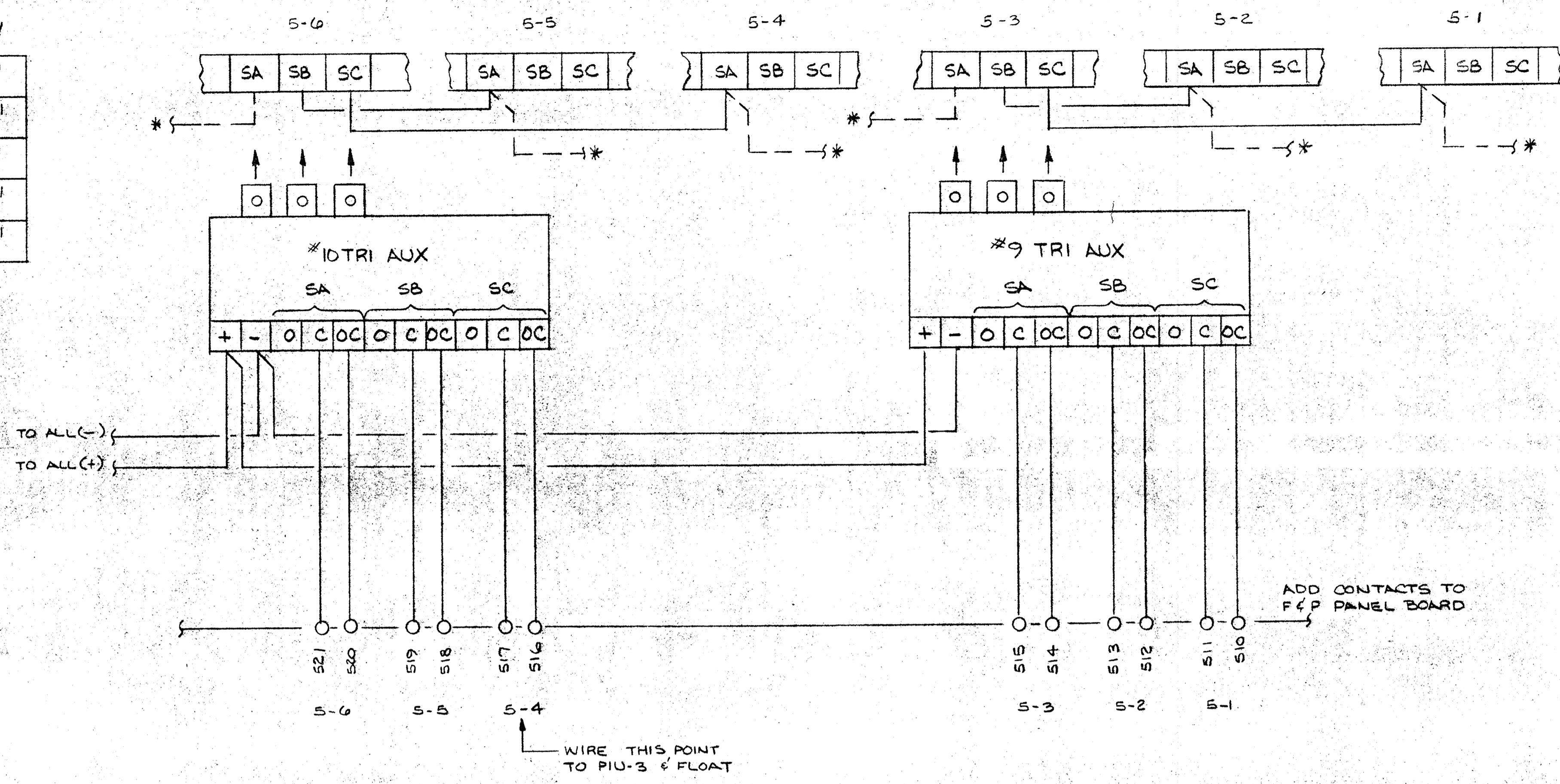
REV.	DATE	DESCRIPTION	CHK	APPD.
D	7/19/83	AS INSTALLED		
C	7/29/81	ADD NOTE		
B	7/29/81	NEW SHEET		

DRAFTER	DATE	HONEYWELL INC. VALLEY FORGE, PA.
CHK		SAVAGE WASTEWATER TREATMENT PLANT
ENGR.		HOWARD COUNTY MARYLAND ADDITION NO.4 CONTRACT.505-5 (ANN B-3)
SCALE		DWG NO. 916D-28342-PIU-3 SHT. 8 OF 1

ANN. 8-3 - REAR VIEW

1-6	1-5	1-4	1-3	1-2	1-1
*2			*1		
2-6	2-5	2-4	2-3	2-2	2-1
*4			*3		
3-6	3-5	3-4	3-3	3-2	3-1
*6			*5		
4-6	4-5	4-4	4-3	4-2	4-1
*8			*7		
5-6	5-5	5-4	5-3	5-2	5-1
*10			*9		

TOTAL 10 TRI-AUX
MDL 70 TCFI-12



* WIRING BY PANEL MANUFACTURER
BLANK WINDOWS MAY NOT HAVE THESE WIRES

REV	DATE	DESCRIPTION	CHK	APPD
D	7/16/82	AS INSTALLED		CC
C	7/22/82	ADD NOTE		CC
B	7/22/82	NEW SHEET		CC

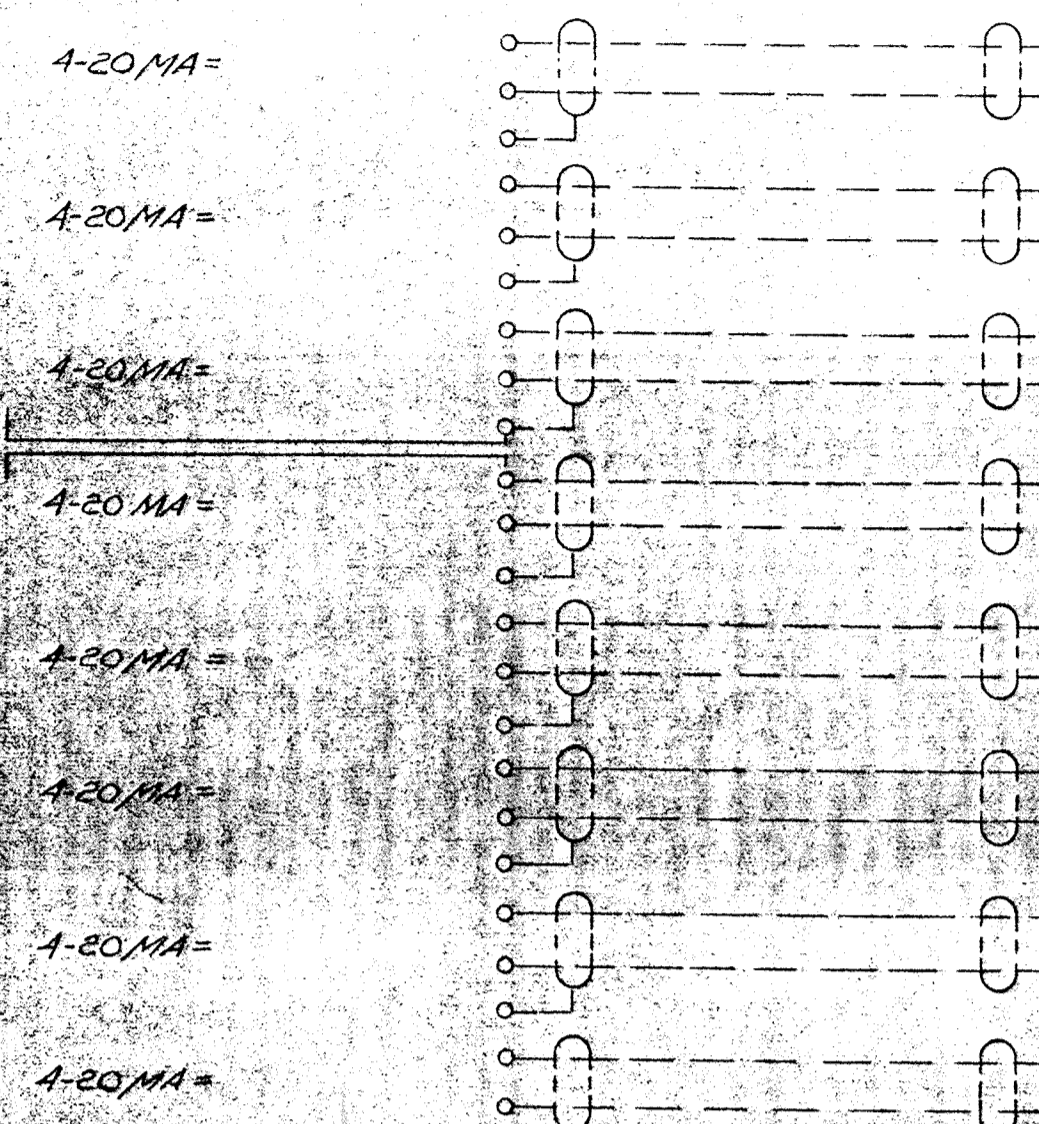
C- PRO. 12 WORK

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊕ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

DRAFTER	DATE	HONEYWELL INC. VALLEY FORGE, PA.		
CHK		SAVAGE WASTEWATER TREATMENT PLANT		
ENGR		HOWARD COUNTY MARYLAND ADDITION NO. 4 CONTRACT 805-S (ANN 8-3)		
SCALE		DWG. NO. 916D-28342-PIU-3	SHT. 9 OF 10	

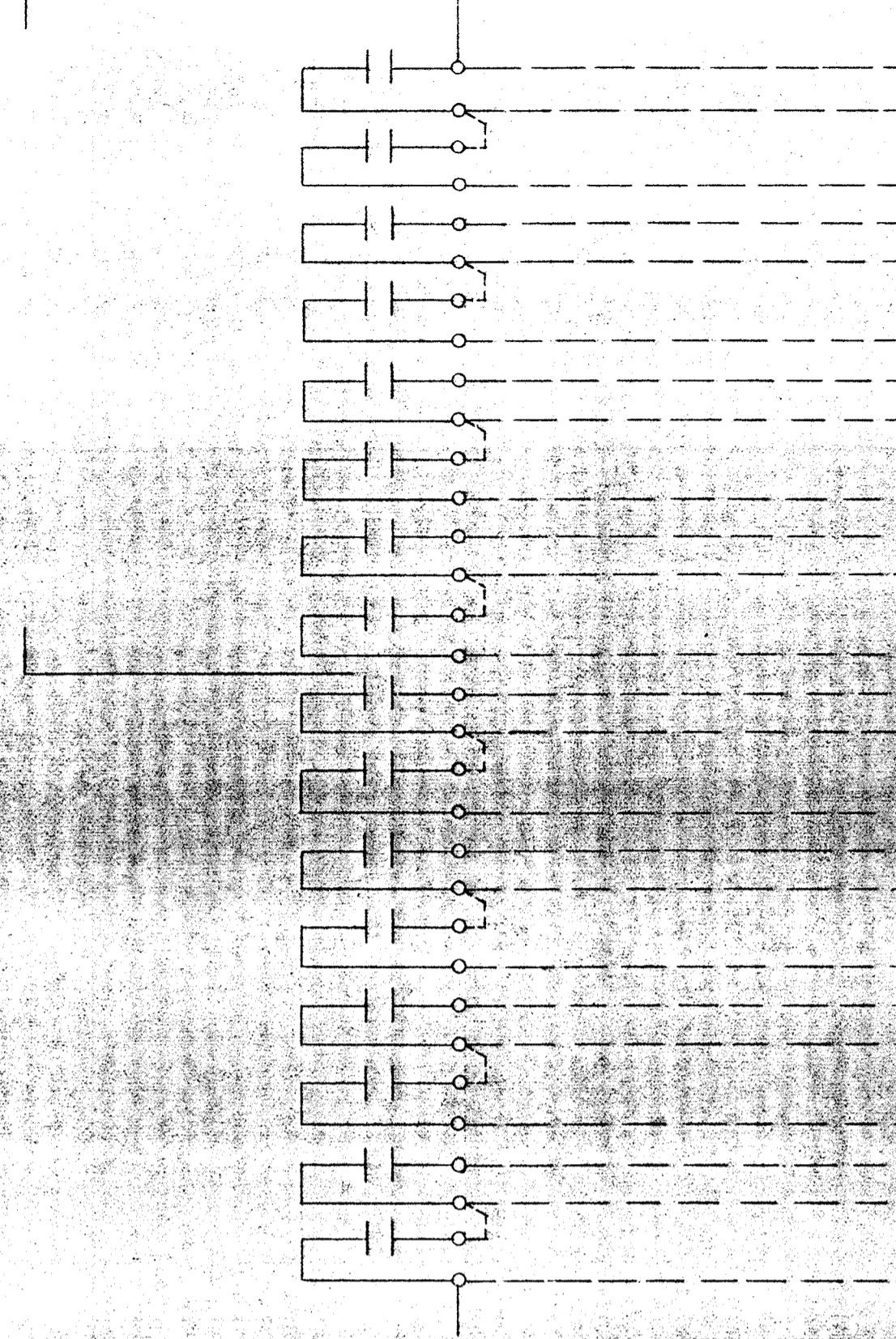
F&P INSTR. PANEL



TERM.	TAG	NAME
1		
2		PRIMARY SLUDGE DENSITY
3		" " " " " "
4		
5		ACT. SLUDGE AND NITRIFIED SLUDGE DENSITY
6		" " " " " " " "
7		
8		WASTE CHEMICAL SLUDGE DENSITY
9		" " " " " "
10		
11		POLYMER STORAGE TANK #1 LEVEL (PT1)
12		" " " " " "
13		
14		POLYMER STORAGE TANK #2 LEVEL (PT2)
15		" " " " " "
16		
17		POLYMER STORAGE TANK #3 LEVEL (PT3)
18		" " " " " "
19		
20		POLYMER STORAGE TANK #4 LEVEL (PT4)
21		" " " " " "
22		
23		POLYMER STORAGE TANK #5 LEVEL (PT5)
24		" " " " " "

* A
CABINET NO. HL4
CFA NO. 2
TERM BLOCK 7
CARD TYPE PXI2E1

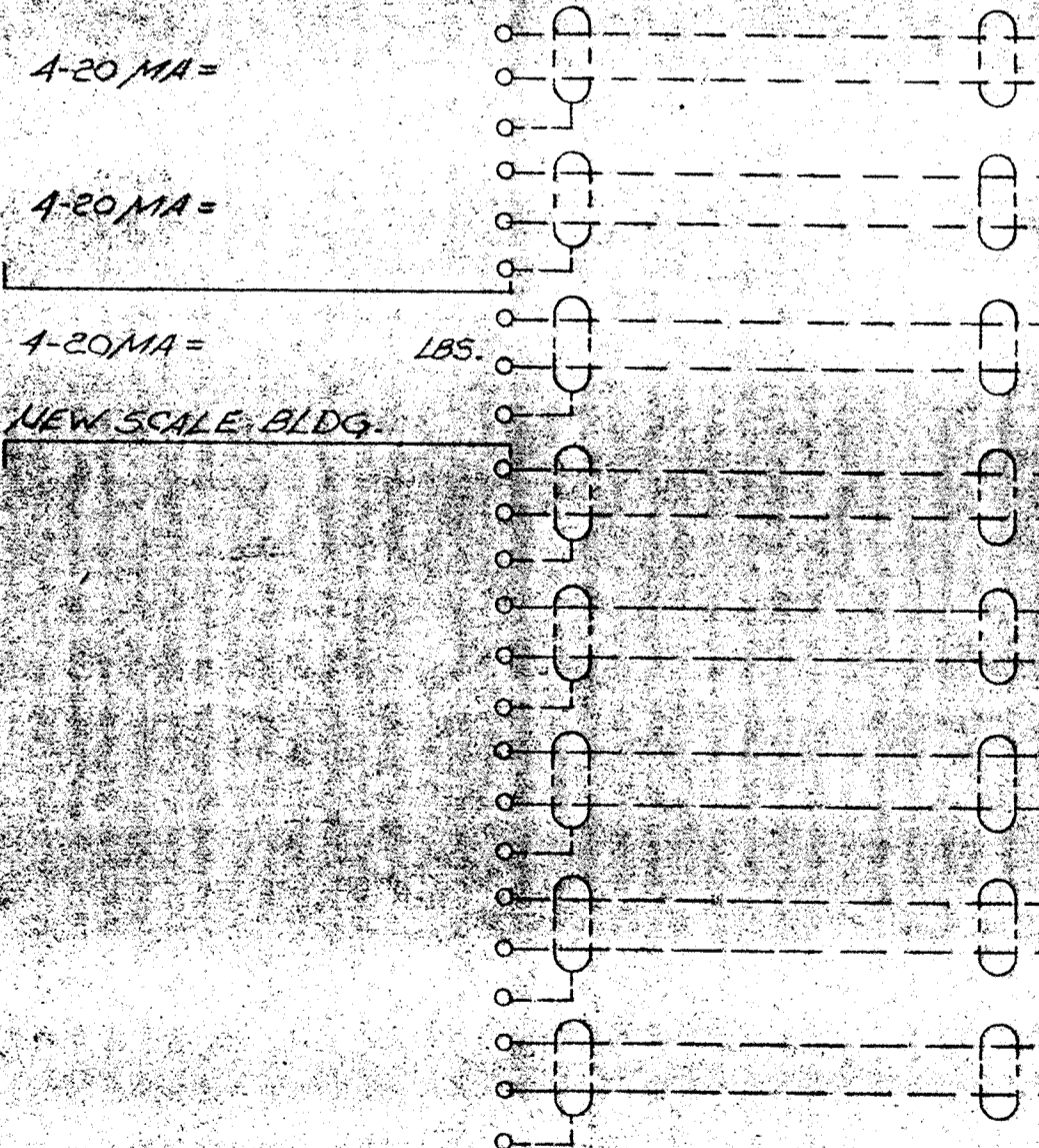
NEW SCALE BLDG.



CABINET NO. HL4 TERM BLOCK 1
CFA NO. 3 CARD TYPE PXI2E1

TERM	TAG	NAME
1		TRUCK NO. 1 IDENTIFICATION
2		SIGNAL COMMON
3		TRUCK NO. 2 IDENTIFICATION
4		TRUCK NO. 3 IDENTIFICATION
5		SIGNAL COMMON
6		TRUCK NO. 4 IDENTIFICATION
7		TRUCK NO. 5 IDENTIFICATION
8		SIGNAL COMMON
9		OVERLOAD - DO NOT READ
10		
11		SIGNAL COMMON
12		COMPUTER REQUEST TO "READ"
13		
14		SIGNAL COMMON
15		
16		
17		SIGNAL COMMON
18		
19		
20		SIGNAL COMMON
21		
22		
23		SIGNAL COMMON
24		

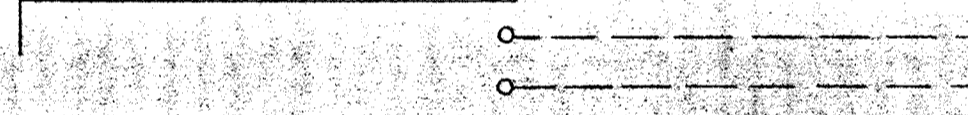
F&P INSTR. PANEL



TERM	TAG	NAME
1		
2		DILUTING WATER FLOW #1 TO GRAVITY THICKENERS
3		" " " " " " " "
4		
5		DILUTING WATER FLOW #2 TO GRAVITY THICKENERS
6		" " " " " " " "
7		
8		DEWATERED SLUDGE TO DISPOSAL
9		" " " " " "
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

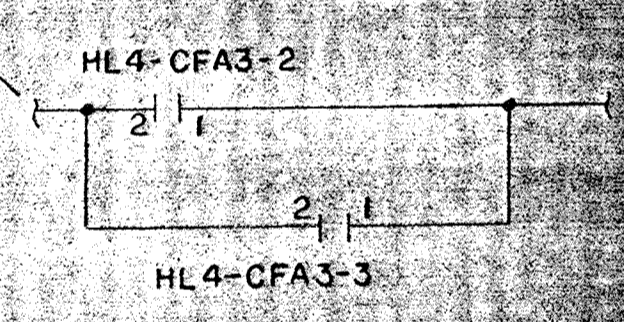
* A
CABINET NO. HL4
CFA NO. 2
TERM BLOCK 8
CARD TYPE PXI2E1

NEW SCALE BLDG.



TERM	TAG	NAME
1		COMPUTER ACCEPT-READ WEIGHT
2		SIGNAL COMMON
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

CABINET NO. HL4
CFA NO. 3
TERM BLOCK 2
CARD TYPE PXI2E1

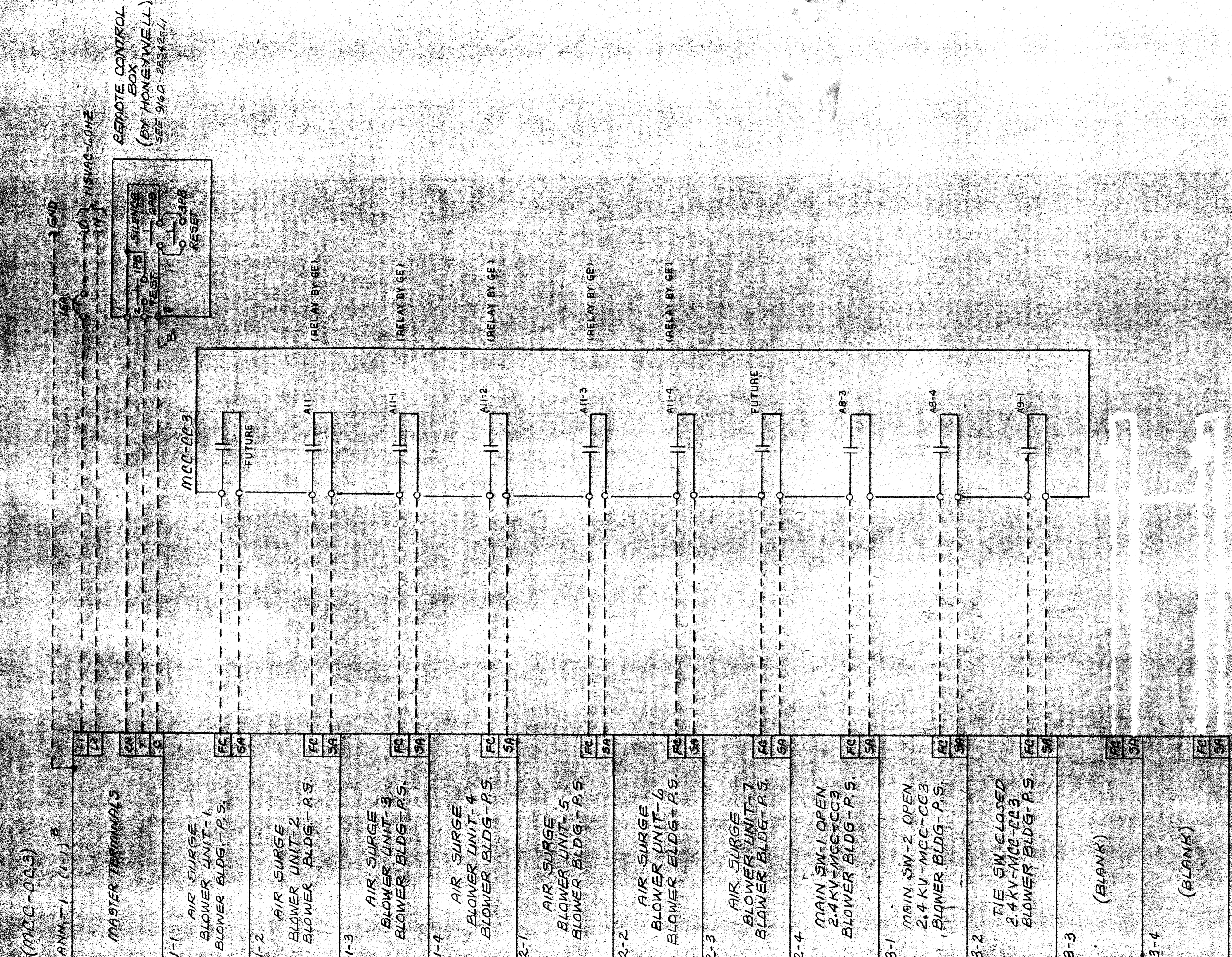


* WIRING TO BE INSTALLED UNDER T&E CONTRACT; HARDWARE, ENGINEERING & DRAWINGS UNDER 505-S, PRO. 9

LEGEND
 - - - FIELD WIRING (NOT BY HONEYWELL)
 - - - WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION
 ⊗ DEVICES (NOT BY HONEYWELL)
 ◀ 20 SIG. AIR SUPPLY

REV.	DATE	DESCRIPTION	CHK.	APPD.
B	7/16/82	AS INSTALLED-SEE *		EE
A	7/16/81	NEW SHEET		EE

HONEYWELL INC. VALLEY FORGE, PA.	
DRAFTER A. P. MCKENNA	DATE 7/16/82
CHK.	VALLEY FORGE, PA.
ENGR.	SIVAGE WASTEWATER TREATMENT PLANT HOWARD COUNTY MARYLAND ADDITION NO. 4 CONTRACT 505-S
SCALE	DWG. NO. 916D-28342-PIU-3 SHT. 10 OF 10



NOTE:
OTHER SET OF CONTACTS GO TO PLUS.
RELAY COILS ARE ENERGIZED BY LOCAL
POWER THROUGH AUXILIARY SWITCHES

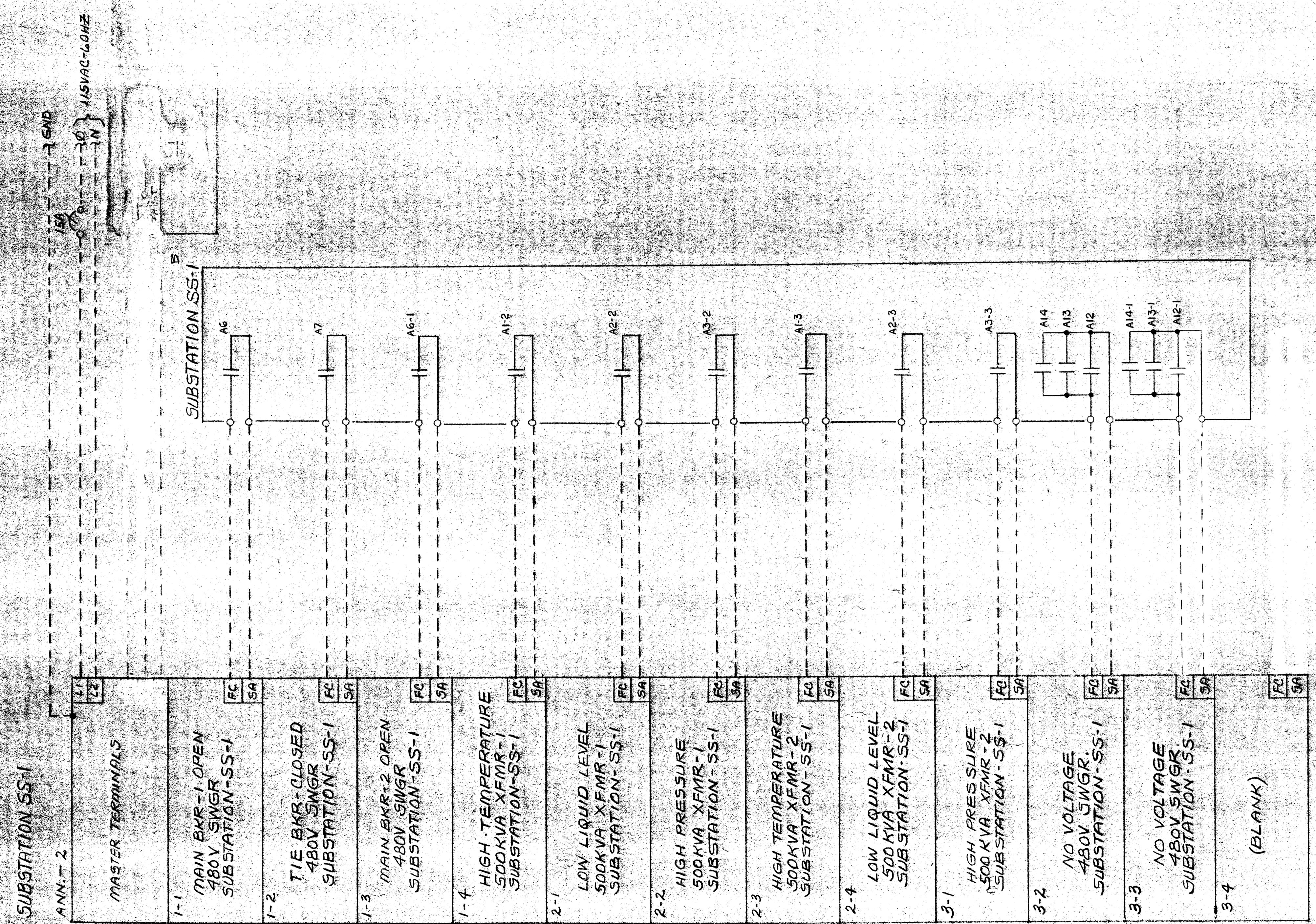
LEGEND

---	FIELD WIRING (NOT BY HONEYWELL)	⊙	DEVICES (NOT BY HONEYWELL)
—	WIRING (BY HONEYWELL)	◀	20 PSIG. AIR SUPPLY
⊞	BACK OF PANEL TERMINAL		
⊙	PNEUMATIC CONNECTION		

REV.	DATE	DESCRIPTION	CHK.	APPD.
C	7/16/88	AS INSTALLED		CE
B	5/14/84	ADD. CHG. - RESUB. FOR RECOR.	SUB-2	CE
A	8/30/83	Eng. Chg's	SUB	CE
HONEYWELL INC. VALLEY FORGE, PA.				
DRAFTER	DATE	SVAW-6 WASTEWATER TREATMENT PLANT		
CHK	DATE	HEWARD SCUNT 1, MARYLAND		
ENGR	DATE	ADDITION NO. 4 CONTRACT 505-5		
SCALE	DATE	DWG. NO. 01aD-28342-ANN-1		

(B)

A
B
C
D
E
F
G
H
I
J
K



LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊙ DEVICES (NOT BY HONEYWELL)
- ▲ 20 PSIG. AIR SUPPLY

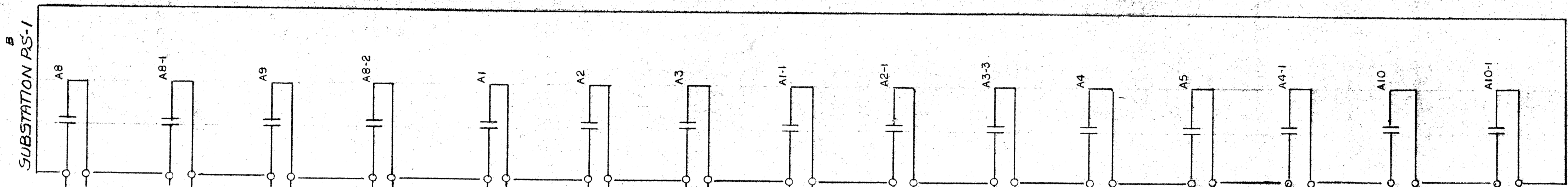
REV.	DATE	DESCRIPTION	CHK.	APPD.
C	7/16/82	AS INSTALLED		EE
B	7/16/82	ENG. CHG. RESUB. FOR RECORD SUB		EE
A	8/29/82	ENG. CHG. SUB		EE

HONEYWELL INC.
VALLEY FORGE, PA.

DRAFTER	DATE	NO.	SCALE	DWG. NO.	SHEET	TOTAL
JWR	7/16/82	1	1/1	916D-28342-ANN-2	1	1
CHK						
ENGR						
SCALE						

SAVAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY, MARYLAND
ADDITION NO. 4 CONTRACT 505-S

(SUBSTATION PS-1)
 ANN. - 3
 150
 115VAC-60HZ
 GND



1-1	XFMR SW-1 OPEN 13.2 KV O.D. STRUCTURE SUBSTATION P.S.-1	FC	SA
1-2	XFMR SW-2 OPEN 13.2 KV O.D. STRUCTURE SUBSTATION P.S.-1	FC	SA
1-3	TIE SW CLOSED 13.2 KV O.D. STRUCTURE SUBSTATION P.S.-1	FC	SA
1-4	MAINT. SW. OPEN 13.2 KV O.D. STRUCTURE SUBSTATION P.S.-1	FC	SA
1-5	HIGH TEMPERATURE 1500 KVA XFMR-1 SUBSTATION P.S.-1	FC	SA
1-6	LOW LIQUID LEVEL 1500 KVA XFMR-1 SUBSTATION P.S.-1	FC	SA
2-1	HIGH PRESSURE 1500 KVA XFMR-1 SUBSTATION P.S.-1	FC	SA
2-2	HIGH TEMPERATURE 1500 KVA XFMR-2 SUBSTATION P.S.-1	FC	SA
2-3	LOW LIQUID LEVEL 1500 KVA XFMR-2 SUBSTATION P.S.-1	FC	SA
2-4	HIGH PRESSURE 1500 KVA XFMR-2 SUBSTATION P.S.-1	FC	SA
2-5	MAIN BKR-1 OPEN 2.4KV SWGR SUBSTATION P.S.-1	FC	SA
2-6	TIE BKR. CLOSED 2.4KV SWGR SUBSTATION P.S.-1	FC	SA
3-1	MAIN BKR-1 OPEN 2.4KV SWGR SUBSTATION P.S.-1	FC	SA
3-2	NO VOLTAGE SER. FDR-1 2.4KV SWGR. SUBSTATION P.S.-1	FC	SA
3-3	NO VOLTAGE SER. FDR-2 2.4KV SWGR. SUBSTATION P.S.-1	FC	SA
3-4	(BLANK)	FC	SA
3-5	(BLANK)	FC	SA
3-6	(BLANK)	FC	SA

LEGEND
 - - - FIELD WIRING (NOT BY HONEYWELL)
 - - - WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION
 ⊗ DEVICES (NOT BY HONEYWELL)
 ▲ 20 PSIG. AIR SUPPLY

REV.	DATE	DESCRIPTION	CHK.	APPD.
C	7/1/83	AS INSTALLED		EE
B	5/17/77	ENG. CHG. SUB. FOR RECORD		EE
A	8/27/75	Eng Chg's		EE

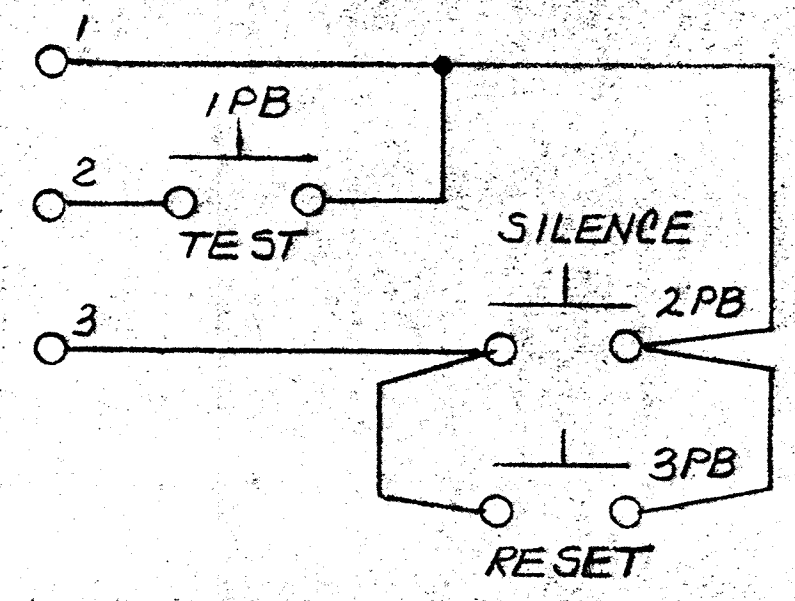
HONEYWELL INC. VALLEY FORGE, PA.	
DRAFTER	DATE
JATR	10/6/73
CHK.	
ENGR.	
E. ENR	8/27/73
SCALE	1/4"
C. NO.	916D-28342-ANN-3
SHT.	1 OF 1

SAVAGE WASTEWATER TREATMENT PLANT
 HOWARD COUNTY, MARYLAND
 ADDITION NO. 4 CONTRACT 505-5

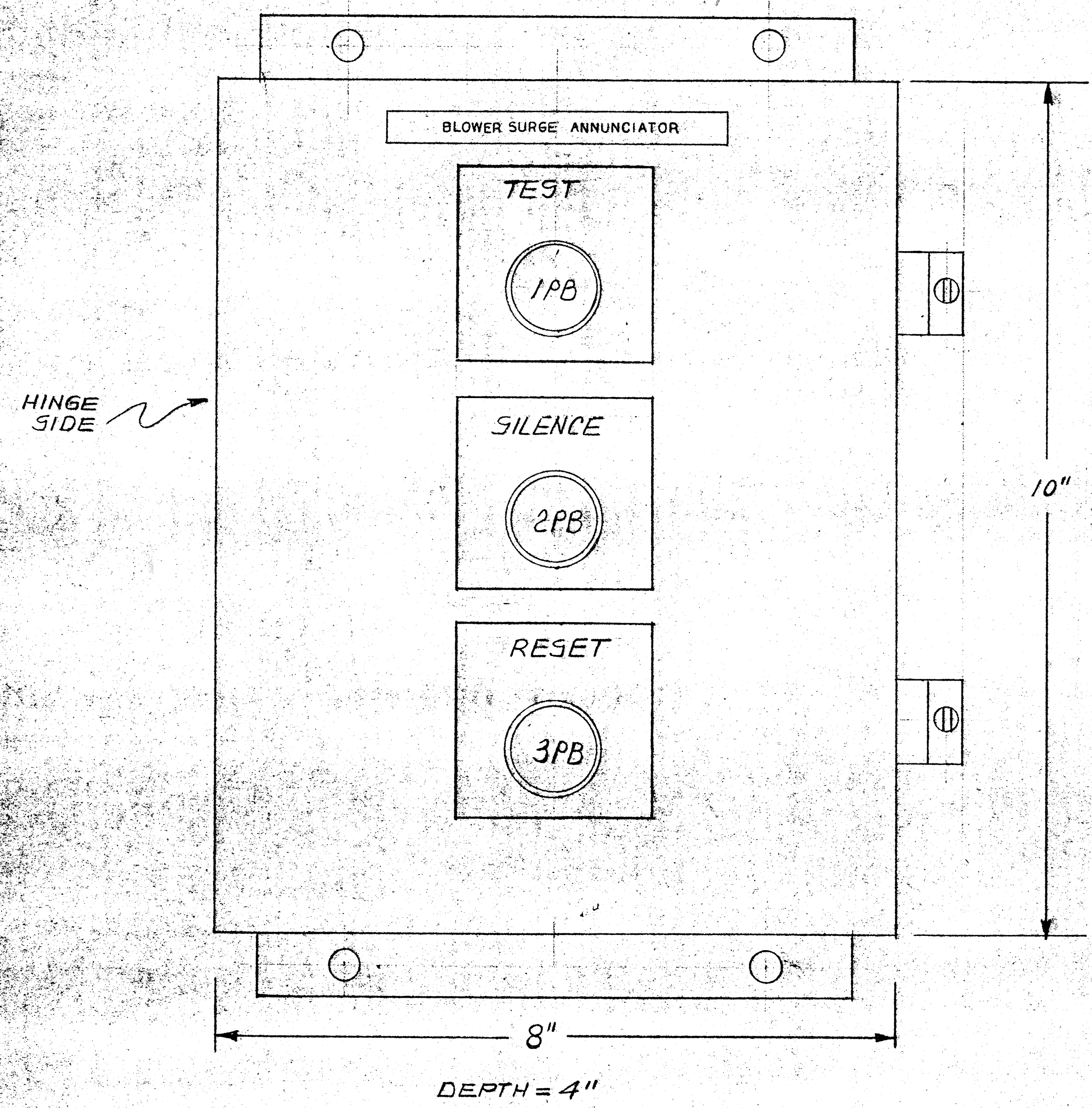
1PB - PTP43D, HONEYWELL, FULLGUARD, RED BUTTON
 2PB - PTP42D, HONEYWELL, FULLGUARD, BLACK BUTTON
 3PB - PTP42D, HONEYWELL, FULLGUARD, BLACK BUTTON

NAMEPLATES, QTY. 3, 2.25" SQUARE.
 ENGRAVED AS FOLLOWS: (BLACK FILL)
 TEST — (FOR 1PB)
 SILENCE — (FOR 2PB)
 RESET — (FOR 3PB)

BOX - NEMA 12, HOFFMAN, CONTINUOUS HINGE, CLAMP COVER BOX,
 P/N A1008CH, PANEL A-8PB. STANDARD FINISH IS
 GREY HAMMERSTONE (BY HOFFMAN)



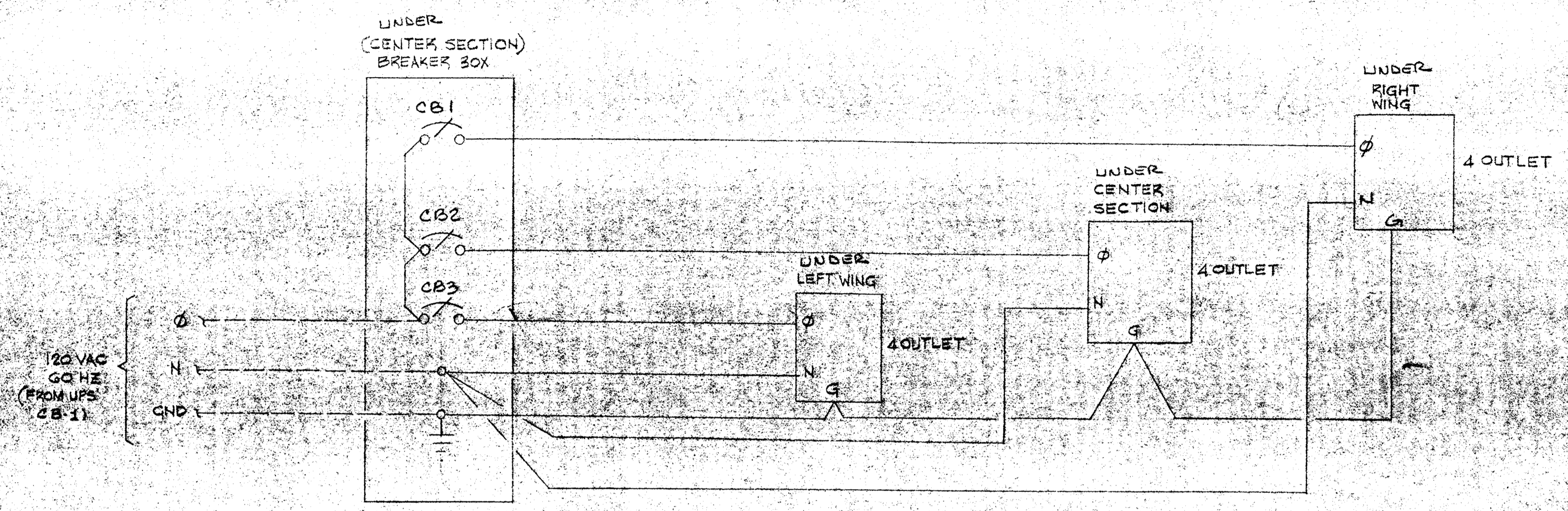
QTY. 1 - REMOTE CONTROL BOX,
 USED WITH ANN-1 (1-1) FOR MCC-CC 3
 SEE DWG 916D-28342-ANN-1 FOR FIELD WIRING



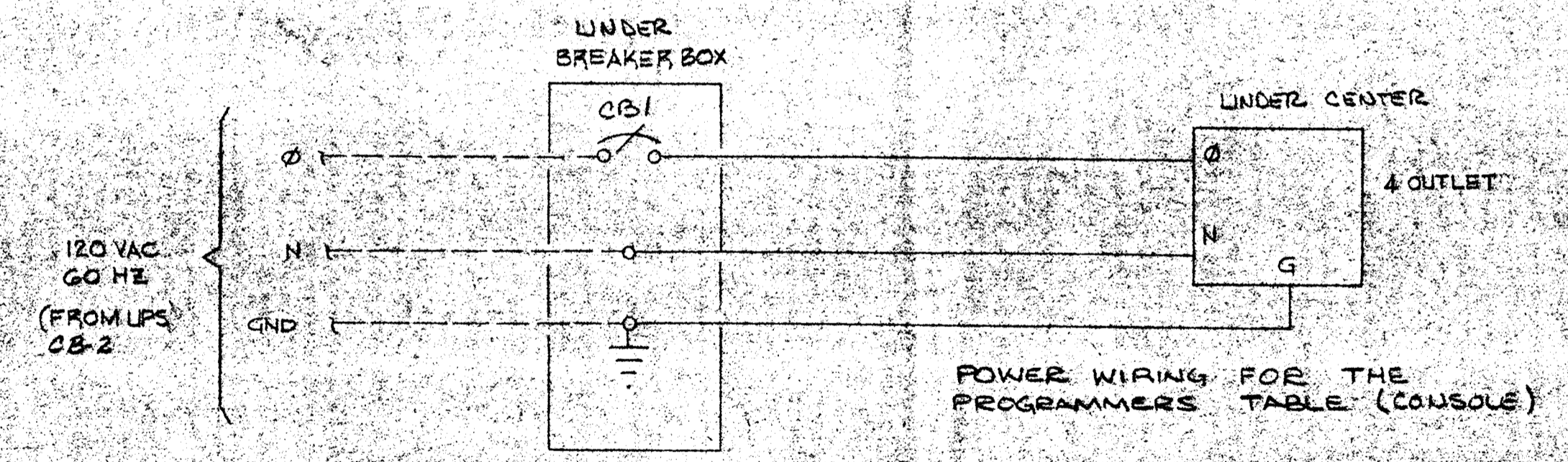
LEGEND
 - - - FIELD WIRING (NOT BY HONEYWELL)
 ——— WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION
 ⊗ DEVICES (NOT BY HONEYWELL)
 ◀ 20 PSIG AIR SUPPLY

REV.	DATE	DESCRIPTION	CHK.	APPD.
C	7/16/88	AS INSTALLED		CE
B	7/16/88	COMM. CHG. - RESUME FOR RESUMED	SUB-2	CE
A	8/27/87	Eng. Chg.	SUB	CE

HONEYWELL INC. VALLEY FORGE, PA.				
DRAWN	DATE	SAVAGE WASTE WATER TREATMENT PLANT		
CHK.	DATE	HOWARD COUNTY, MARYLAND		
ENGR.	DATE	ADDITION NO. 4 CONTRACT 505-S		
SCALE	DWG. NO.	916D-28342-L1		SHT. 1 OF 1



POWER WIRING FOR OPERATIONS TABLE (CONSOLE)



POWER WIRING FOR THE PROGRAMMER'S TABLE (CONSOLE)

NOTES:
EACH CIRCUIT BREAKER HAS A RATING OF 20 AMPERES.

- LEGEND**
- FIELD WIRING (NOT BY HONEYWELL)
 - WIRING (BY HONEYWELL)
 - BACK OF PANEL TERMINAL
 - PNEUMATIC CONNECTION
 - ⊕ DEVICES (NOT BY HONEYWELL)
 - ◀ 20 PSIG. AIR SUPPLY

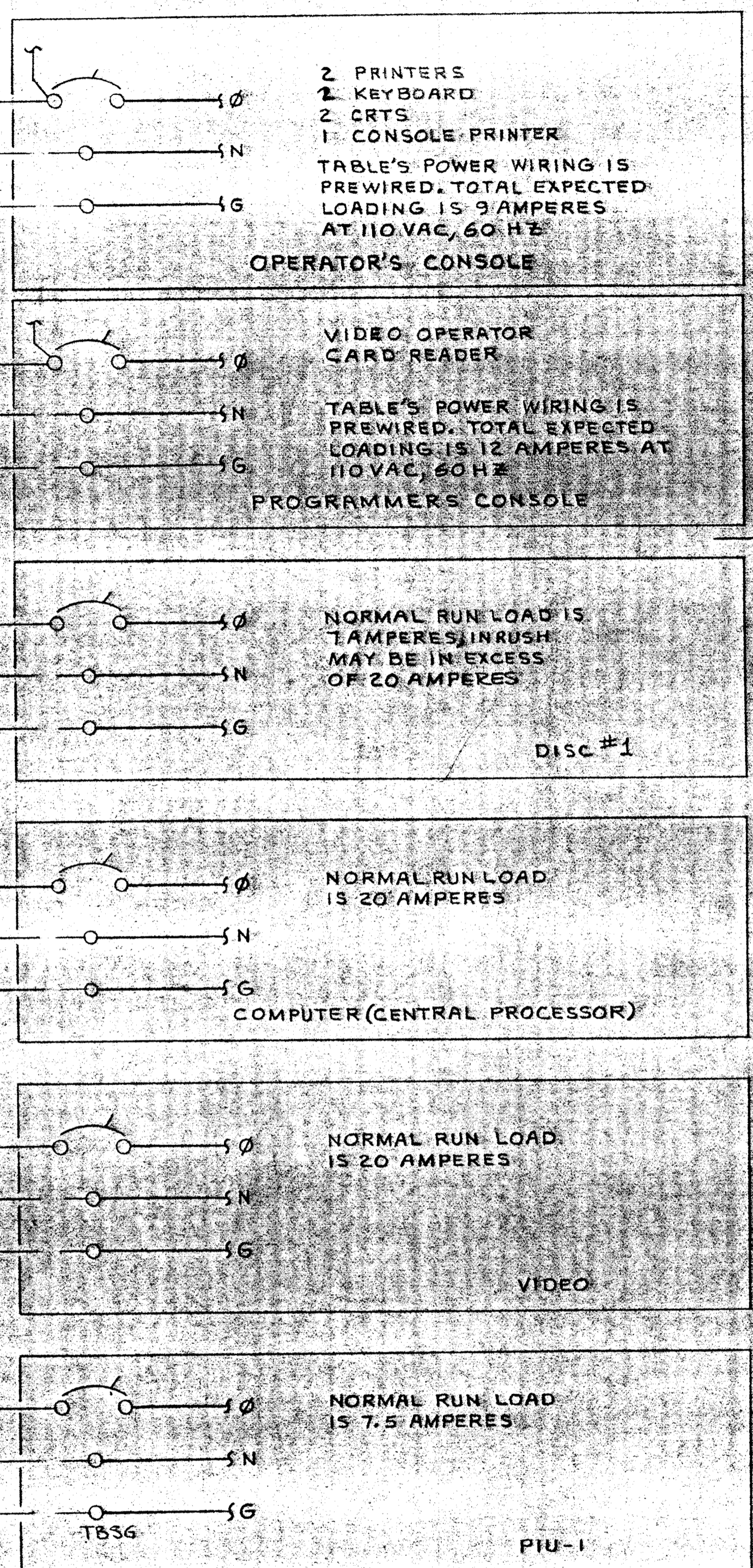
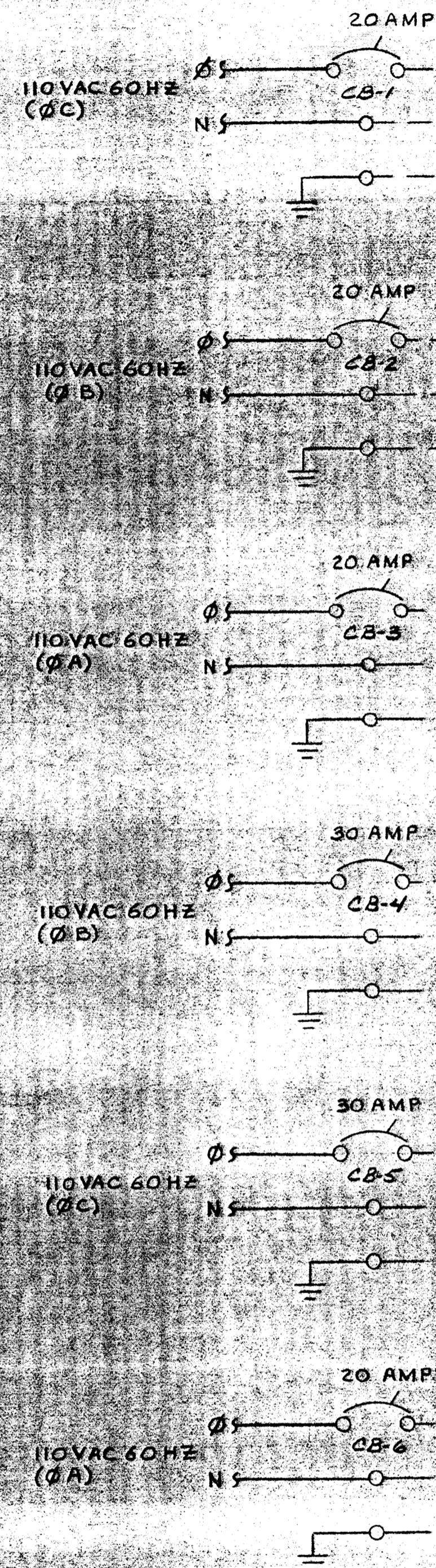
REV.	DATE	DESCRIPTION	CHK.	APP.
B	7/16/83	AS INSTALLED		LB
A	30 MAR 83	Rel. to Fabrication		LB

HONEYWELL INC.
VALLEY FORGE, PA.

DRAFTER	DATE	SAVATE WASTE/WATER TREATMENT PLANT
CHK.	4/2/83	HOWARD COUNTY, MARYLAND
ENGR.	4/1/83	ADDITION NO. 4 CONTRACT 303-S
SCALE		TABLE WIRING PER PAGE HA-23, PARAM 2
DWG. NO. 912D23342-PD1		SHT. 1 OF 1

MAIN BREAKER - 225 AMP SHUNT TRIP
 3-30 AMP BREAKERS, 7-20 AMP BREAKERS

UNINTERRUPTIBLE POWER SYSTEM
 DISTRIBUTION PANEL



2 PRINTERS
 2 KEYBOARD
 2 CRTS
 1 CONSOLE PRINTER
 TABLE'S POWER WIRING IS
 PREWIRED. TOTAL EXPECTED
 LOADING IS 9 AMPERES
 AT 110 VAC, 60 HZ

OPERATOR'S CONSOLE

VIDEO OPERATOR
 CARD READER
 TABLE'S POWER WIRING IS
 PREWIRED. TOTAL EXPECTED
 LOADING IS 12 AMPERES AT
 110 VAC, 60 HZ

PROGRAMMERS CONSOLE

NORMAL RUN LOAD IS
 1 AMPERES, INRUSH
 MAY BE IN EXCESS
 OF 20 AMPERES

DISC #1

NORMAL RUN LOAD
 IS 20 AMPERES

COMPUTER (CENTRAL PROCESSOR)

NORMAL RUN LOAD
 IS 20 AMPERES

VIDEO

NORMAL RUN LOAD
 IS 7.5 AMPERES

PIU-1

SEE CONSOLE
 WIRING DIAGRAM
 916D28342-PD1

4. INPUT POWER TO THE DISTRIBUTION PANEL SHALL BE PROTECTED BY A SHUNT TRIP BREAKER.
3. CIRCUIT BREAKER TYPE PANELBOARDS SHALL BE NEMA 1 AND CONFORM TO FEDERAL SPECIFICATION W-P-115A. BREAKER TYPE IS "E".
2. DISTRIBUTION PANEL IS TO INCLUDE FOUR SPARE CIRCUIT BREAKERS.
1. SIZE FIELD WIRE PER FULL LOAD RATING OF THE CIRCUIT BREAKER IN THE UPS DISTRIBUTION PANEL.

REV.	DATE	DESCRIPTION	CHK.	APPD.
C	7/19/82	AS INSTALLED		CE
B	12/1/80	NO CHG. SUBFOR RECORD	SUB-2	CE
A	3/22/79	Eng. Chg. 1	SUB	CE

HONEYWELL INC.
 VALLEY FORGE, PA.

LEGEND

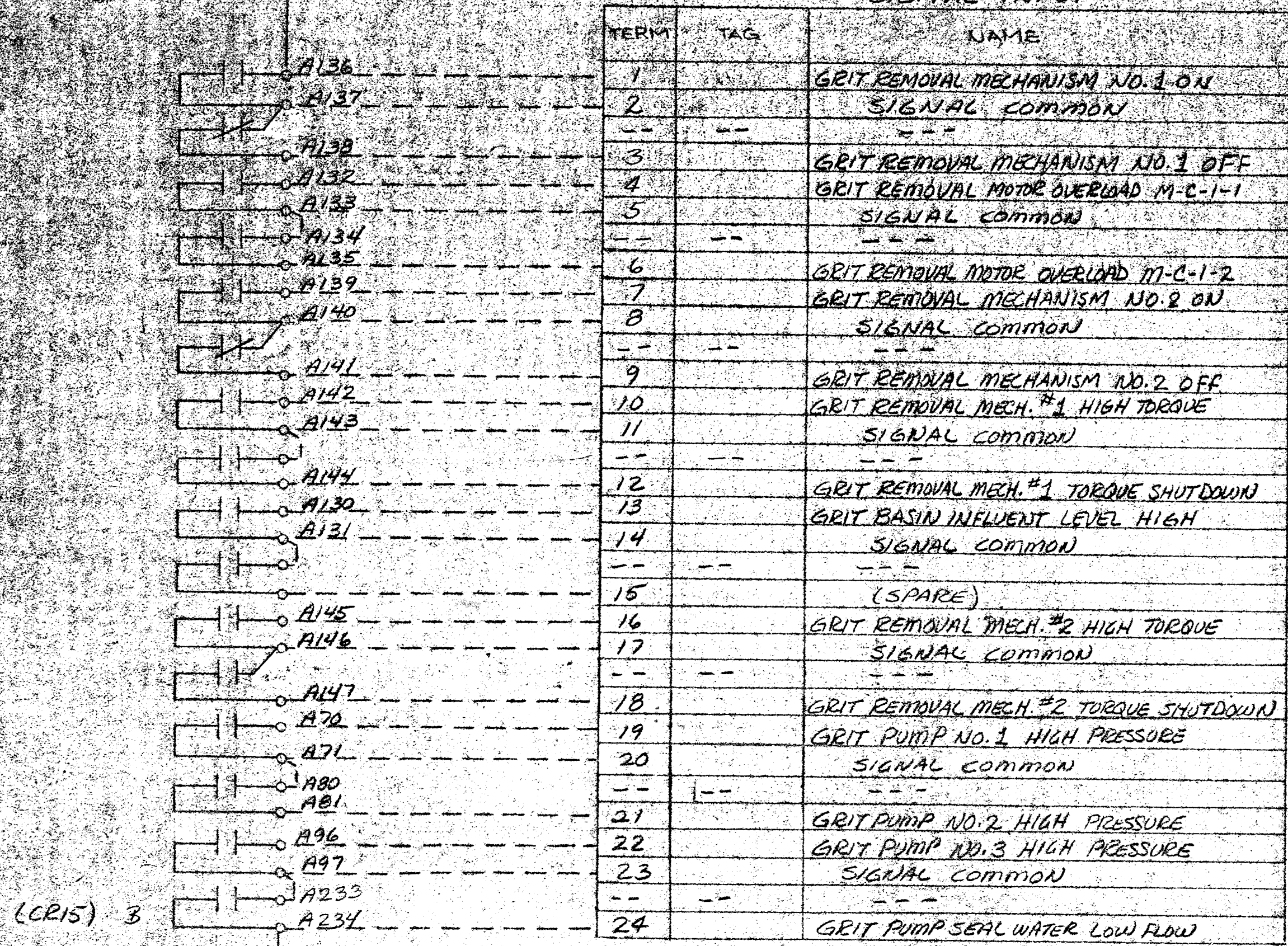
--- FIELD WIRING (NOT BY HONEYWELL)
 --- WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION

⊗ DEVICES (NOT BY HONEYWELL)
 ◀ 20 PSIG. AIR SUPPLY

DRAFTER	RRL	DATE	14 MAY 79
CHK.	WJ	DATE	5/1/80
ENGR.	DEAN	DATE	3/27/79
SCALE	1/1	DWG. NO.	916D28342-PD2
			SHT. 1 OF 2

SAVAGE WASTE WATER TREATMENT PLANT
 UPS POWER FIELD WIRING

GRIT REMOVAL CONTROL PANEL LP-2



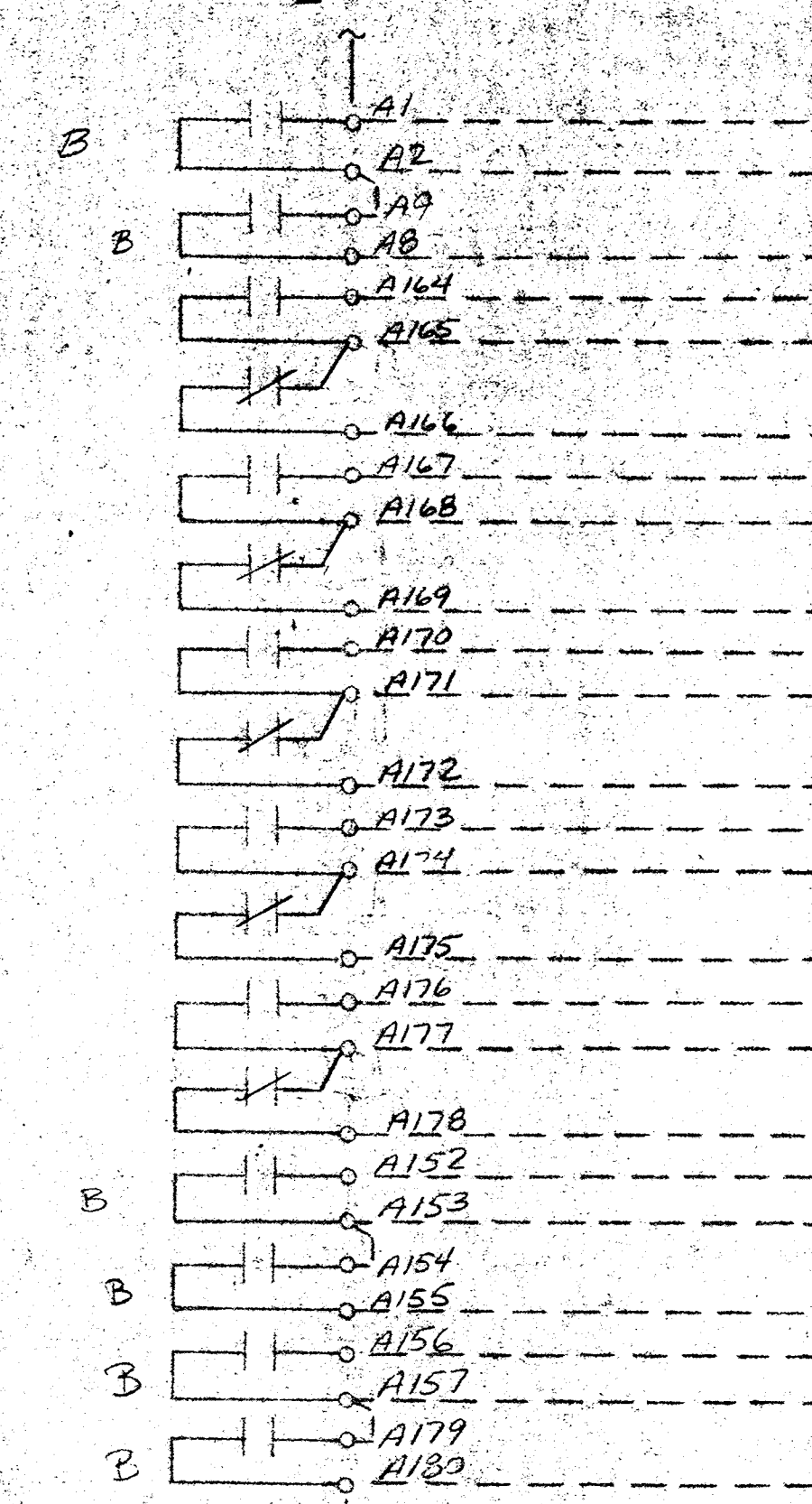
TERM	TAG	NAME
1		GRIT REMOVAL MECHANISM NO. 1 ON
2		SIGNAL COMMON
3		GRIT REMOVAL MECHANISM NO. 1 OFF
4		GRIT REMOVAL MOTOR OVERLOAD M-C-1-1
5		SIGNAL COMMON
6		GRIT REMOVAL MOTOR OVERLOAD M-C-1-2
7		GRIT REMOVAL MECHANISM NO. 2 ON
8		SIGNAL COMMON
9		GRIT REMOVAL MECHANISM NO. 2 OFF
10		GRIT REMOVAL MECH. #1 HIGH TORQUE
11		SIGNAL COMMON
12		GRIT REMOVAL MECH. #1 TORQUE SHUTDOWN
13		GRIT BASIN INFLUENT LEVEL HIGH
14		SIGNAL COMMON
15		(SPARE)
16		GRIT REMOVAL MECH. #2 HIGH TORQUE
17		SIGNAL COMMON
18		GRIT REMOVAL MECH. #2 TORQUE SHUTDOWN
19		GRIT PUMP NO. 1 HIGH PRESSURE
20		SIGNAL COMMON
21		GRIT PUMP NO. 2 HIGH PRESSURE
22		GRIT PUMP NO. 3 HIGH PRESSURE
23		SIGNAL COMMON
24		GRIT PUMP SEAL WATER LOW FLOW

CABINET NO. HL9
CFA NO. 1
TERM. BLOCK NO. 3
CARD TYPE P3D21

TERM	TAG	NAME
1		GRIT PUMP NO. 1 ON
2		SIGNAL COMMON
3		GRIT PUMP NO. 1 OFF
4		GRIT PUMP NO. 2 ON
5		SIGNAL COMMON
6		GRIT PUMP NO. 2 OFF
7		SCUM SUMP PUMP ON
8		SIGNAL COMMON
9		EQUALIZATION BASIN NO. 1 HIGH LEVEL
10		EQUALIZATION BASIN NO. 2 HIGH LEVEL
11		SIGNAL COMMON
12		MECH. MOUNT. PANEL AIR HANDLING UNIT #1 ON
13		MECH. MOUNT. PANEL AIR HANDLING UNIT #1 AIR FLOW FAILURE
14		SIGNAL COMMON
15		MECH. MOUNT. PANEL UNIT EXH. FAN #1 LOW
16		MECH. MOUNT. PANEL UNIT EXH. FAN #1 HIGH
17		SIGNAL COMMON
18		
19		
20		SIGNAL COMMON
21		WATER SEAL PUMP ON
22		FLOW METERING CHAMBER SUMP PUMP #1 HIGH
23		SIGNAL COMMON
24		FLOW METERING CHAMBER SUMP PUMP #2 HIGH

CABINET NO. HL9
CFA NO. 1
TERM. BLOCK NO. 4
CARD TYPE P3D21

GRIT REMOVAL CONTROL PANEL LP-2



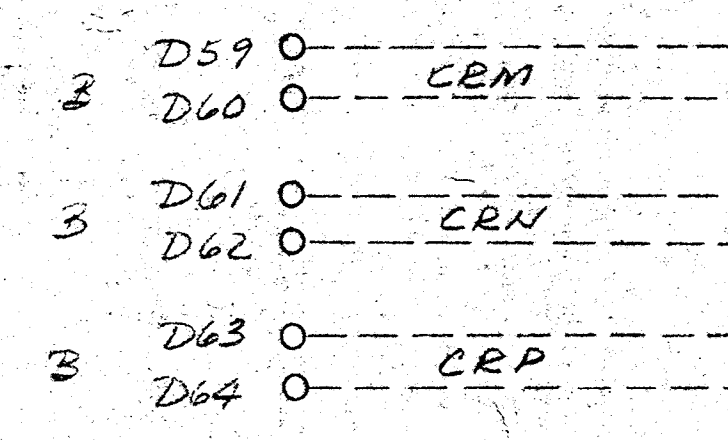
TERM	TAG	NAME
1		COMP. REQ. - RETURN FLOOD CONTROL
2		SIGNAL COMMON
3		COMP. REQ. - PRE. CLARIFIER INFLUENT CONTROL
4		GRIT PUMP NO. 3 ON
5		SIGNAL COMMON
6		GRIT PUMP NO. 3 OFF
7		GRIT CLASSIFIER NO. 1 ON
8		SIGNAL
9		GRIT CLASSIFIER NO. 1 OFF
10		GRIT CLASSIFIER NO. 2 ON
11		SIGNAL COMMON
12		GRIT CLASSIFIER NO. 2 OFF
13		GRIT BIN LEVELING SCREW NO. 1 ON
14		SIGNAL COMMON
15		GRIT BIN LEVELING SCREW NO. 1 OFF
16		GRIT BIN LEVELING SCREW NO. 2 ON
17		SIGNAL COMMON
18		GRIT BIN LEVELING SCREW NO. 2 OFF
19		COMPUTER REQUEST - GRIT PUMP NO. 1 ON
20		SIGNAL COMMON
21		COMPUTER REQUEST - GRIT PUMP NO. 2 ON
22		COMPUTER REQUEST - GRIT PUMP NO. 3 ON
23		SIGNAL COMMON
24		(SPARE)

CABINET NO. HL9
CFA NO. 1
TERM. BLOCK NO. 5
CARD TYPE P3D21

TERM	TAG	NAME
1		
2		
3		
4		
5		
6		
7		COMP. ACCEPT - GRIT PUMP NO. 1 RUN
8		COMMON
9		
10		COMP. ACCEPT - GRIT PUMP NO. 2 RUN
11		COMMON
12		
13		COMP. ACCEPT - GRIT PUMP NO. 3 RUN
14		COMMON
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

CABINET NO. HL9
CFA NO. 1
TERM. BLOCK NO. 6
CARD TYPE P3D21

DIGITAL OUTPUT
CONTACT RATING - 100 VA
MAXIMUM RATING - 100VDC
MAXIMUM CURRENT - 1 AMPERE
NON-INDUCTIVE



LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- DEVICES (NOT BY HONEYWELL)
- 20 PSIG. AIR SUPPLY

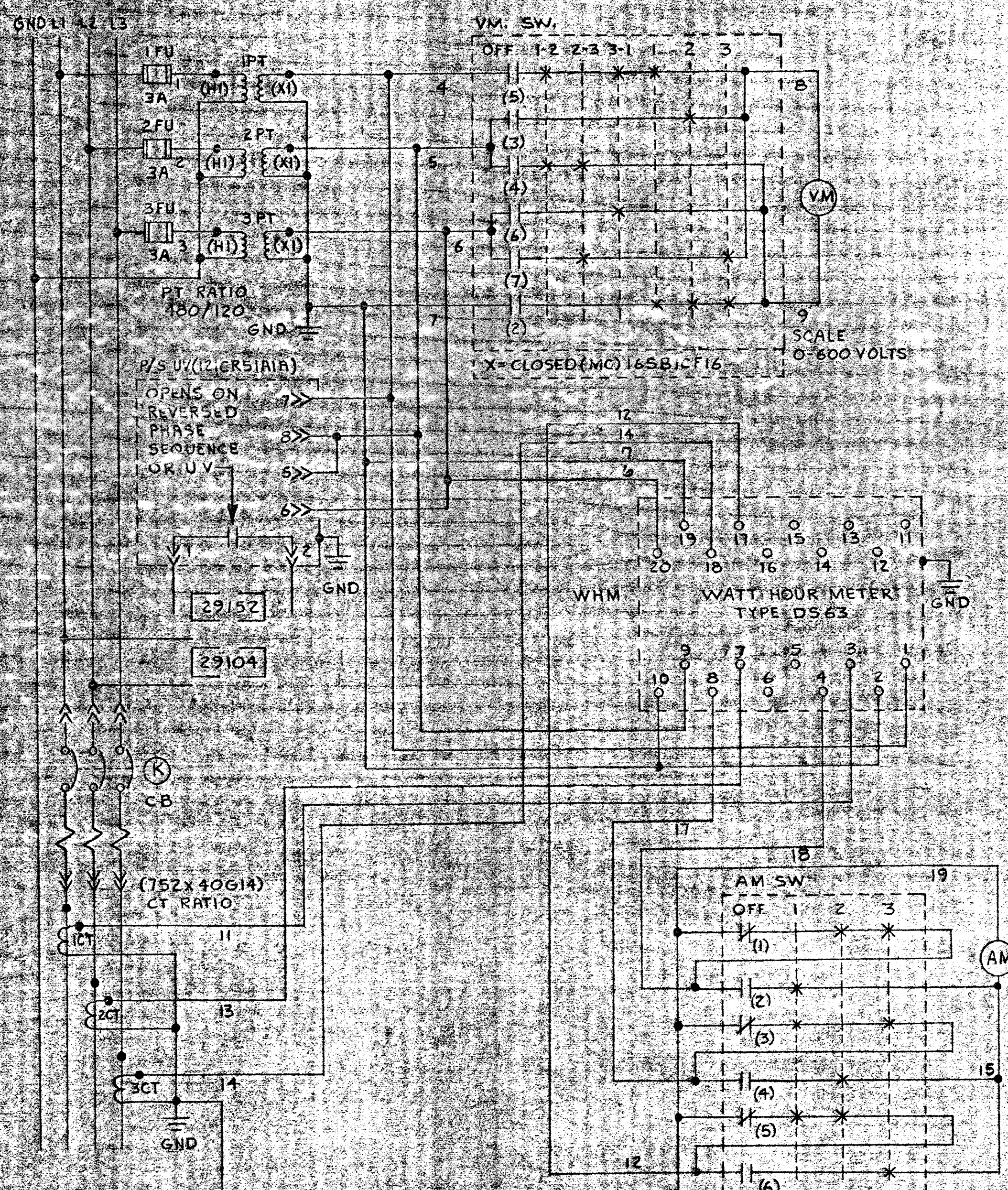
DATE	2-18-1973
DRAFTER	STEVE SMITH
ENGR.	[Signature]
SCALE	
DATE	2-18-1973
DWG. NO.	516D-28342-PIU-7
APPD.	[Signature]

REV	DATE	DESCRIPTION	CHK	APPD.
C	7/1/82	AS INSTALLED		EE
B	1/28/80	COND. CHG.		EE
A	7/79	First Issue		EE

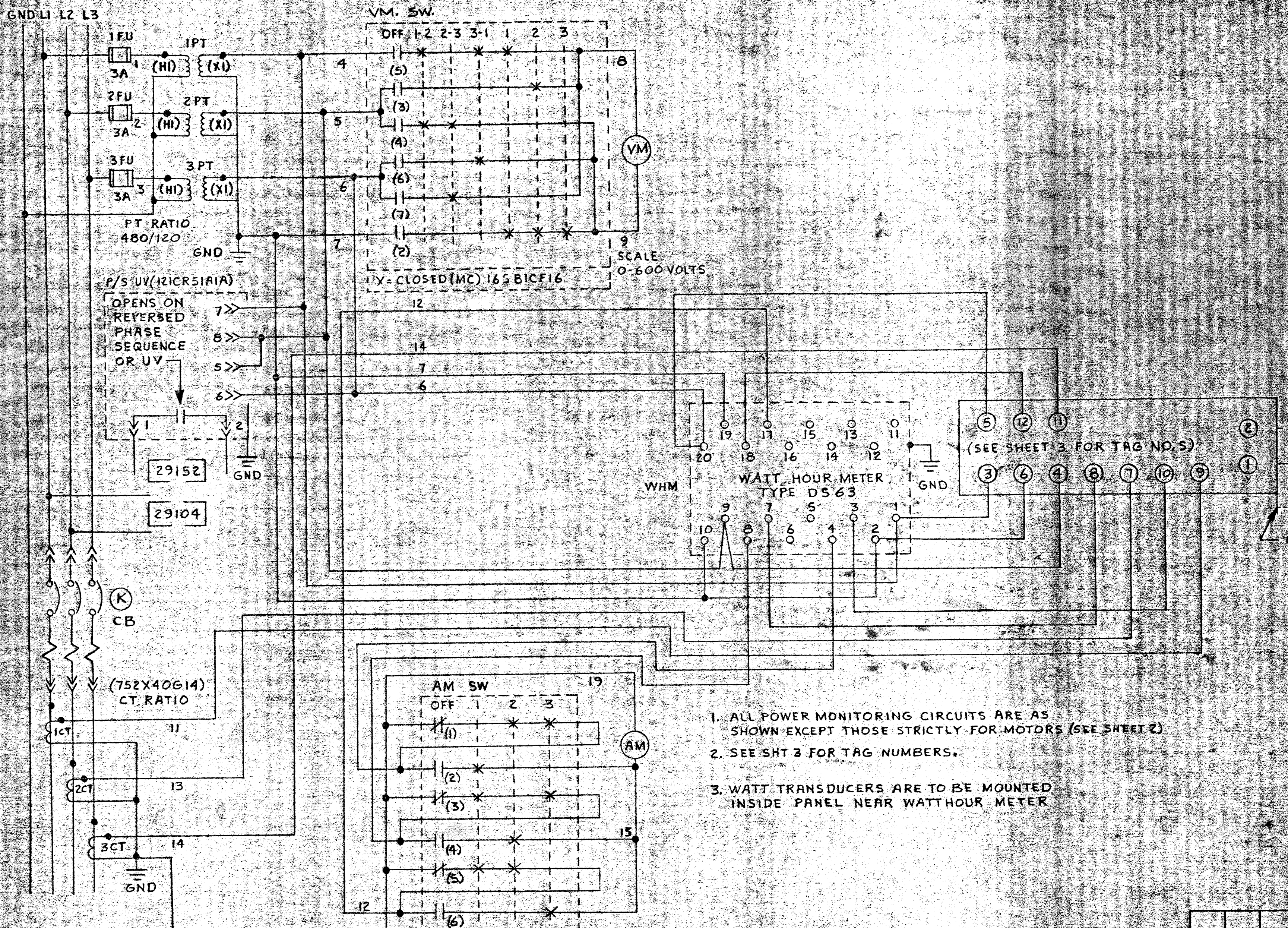
HONEYWELL INC. VALLEY FORGE, PA

VALLEY FORGE, PA

SEWAGE WASTEWATER TREATMENT PLANT HOWARD COUNTY MARYLAND ADDITION NO. 1 CONTRACT 805-S



TYPICAL VOLTAGE, CURRENT & WATTHOUR POWER FDR CIRCUIT - PRESENT STATUS
FIGURE 1



TYPICAL VOLTAGE, CURRENT & WATTHOUR POWER FDR CIRCUIT - MODIFIED TO SHOW ADDITION OF AN ELECTRONIC WATT TRANSUDER.
FIGURE 2

1. ALL POWER MONITORING CIRCUITS ARE AS SHOWN EXCEPT THOSE STRICTLY FOR MOTORS (SEE SHEET 2)
2. SEE SHT 3 FOR TAG NUMBERS.
3. WATT TRANSUDERS ARE TO BE MOUNTED INSIDE PANEL NEAR WATTHOUR METER

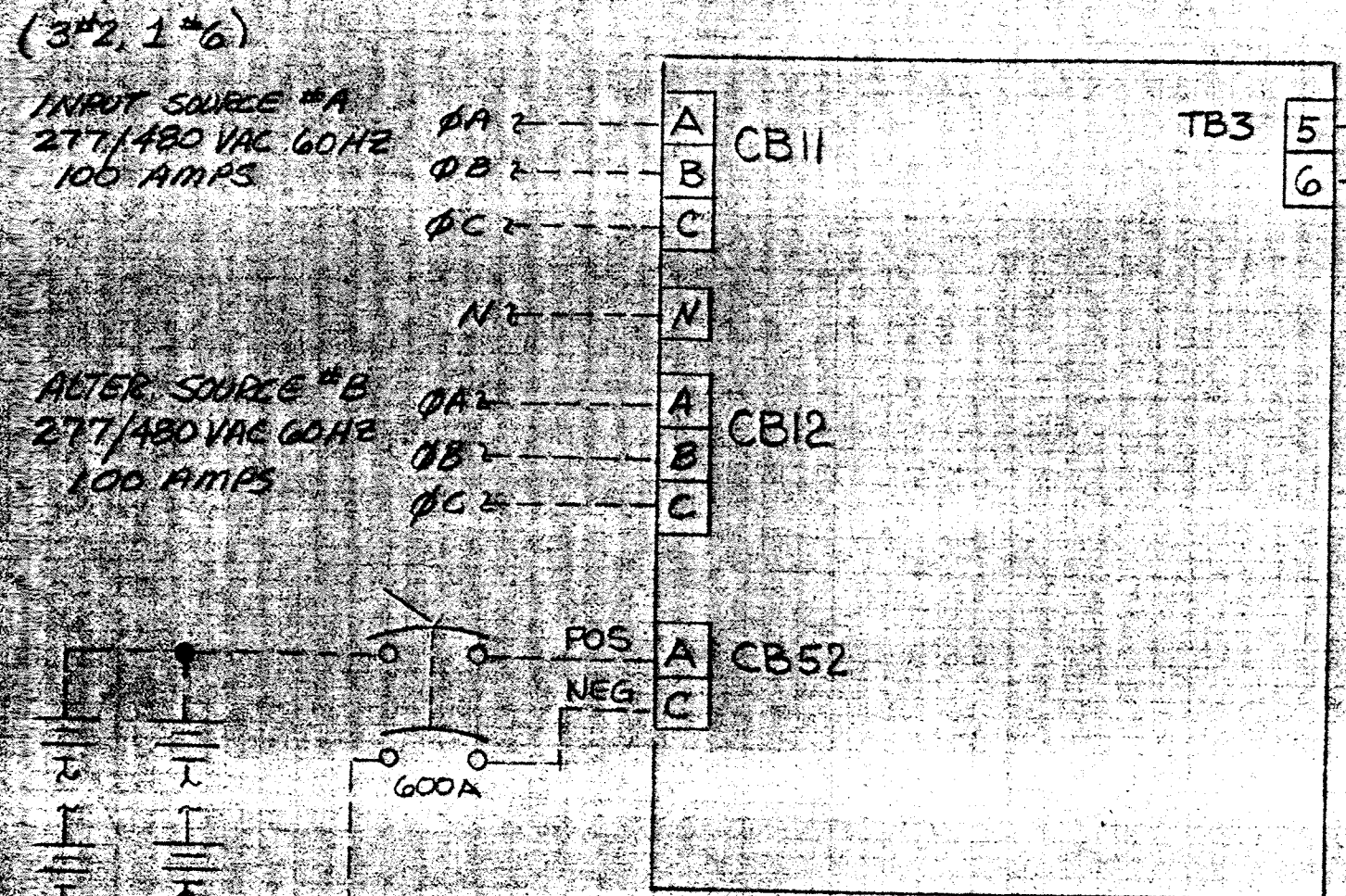
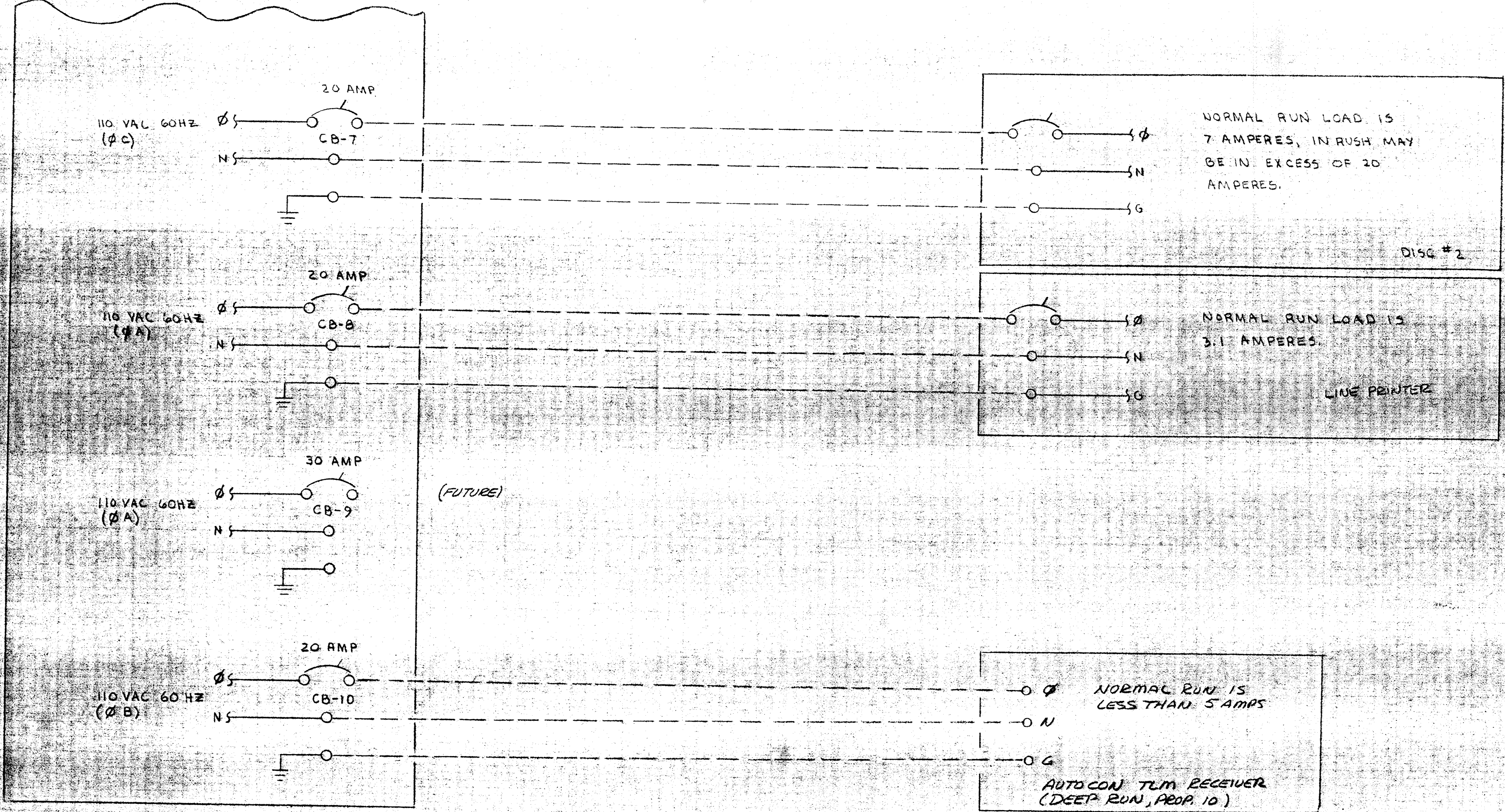
LEGEND

—	FIELD WIRING (NOT BY HONEYWELL)	⊕	DEVICES (NOT BY HONEYWELL)
—	WIRING (BY HONEYWELL)	◀	20 PSIG. AIR SUPPLY
□	BACK OF PANEL TERMINAL		
○	PNEUMATIC CONNECTION		

REV.	DATE	DESCRIPTION	CHK.	APPD.
C	7/16/82	AS INSTALLED		EE
B	1/18/82	ADD CHGS - SUB. FOR BOARD	5062	EE
A	1/18/82	FOR CHG	5062	EE

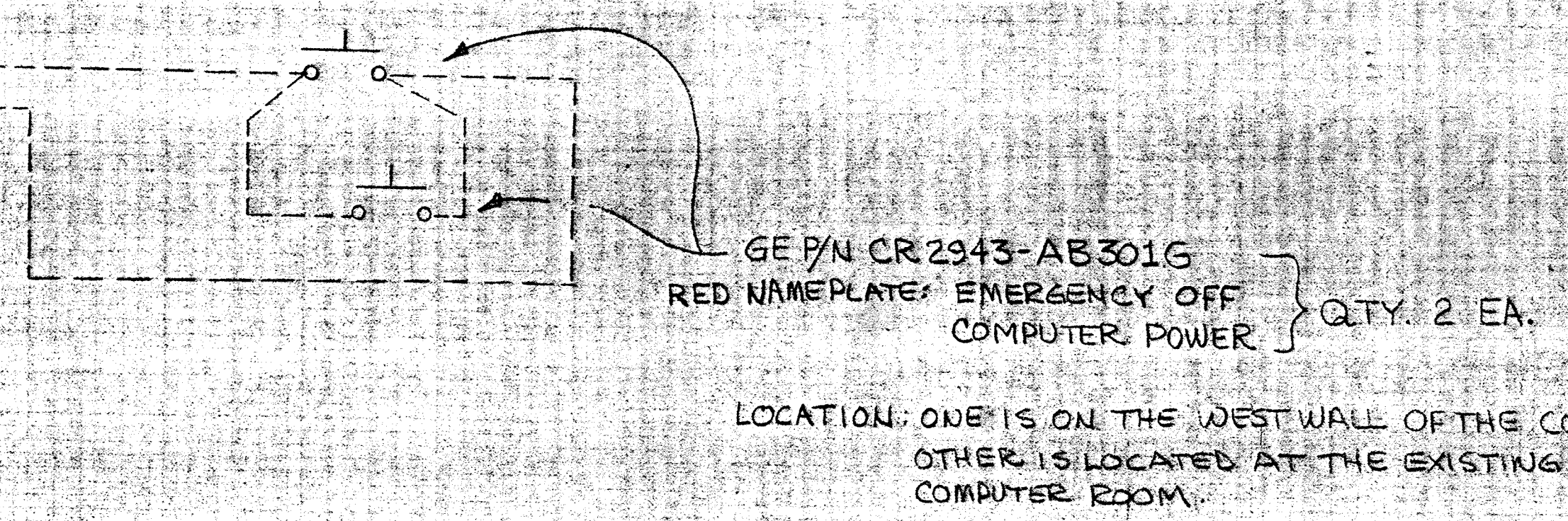
HONEYWELL INC. VALLEY FORGE, PA.	
SAVAGE WASTEWATER TREATMENT PLANT	
HOWARD COUNTY, MARYLAND ADDITION NO. 4 CONTRACT 505-S	
DRAWN RRL	DATE 5 APR 79
ENG. DEW	DATE 9 OCT 79
SCALE 1/2"	FIG. NO. 916D-28342-PWR

DISTRIBUTION PANEL



NORMAL BATTERY INPUT CURRENT IS 400 AMPS.
 EACH SERIES OF BATTERIES CONTAIN 92 CELLS.
 4 BATTERIES ARE SPARE BUT ARE MOUNTED IN RACK ALSO.
 600 AMP. BREAKER IS MOUNTED ON LEFT END OF
 BATTERY RACK NEAR DOOR

- LEGEND**
- FIELD WIRING (NOT BY HONEYWELL)
 - WIRING (BY HONEYWELL)
 - BACK OF PANEL TERMINAL
 - PNEUMATIC CONNECTION
 - ⊕ DEVICES (NOT BY HONEYWELL)
 - ◀ 20 PSIG. AIR SUPPLY

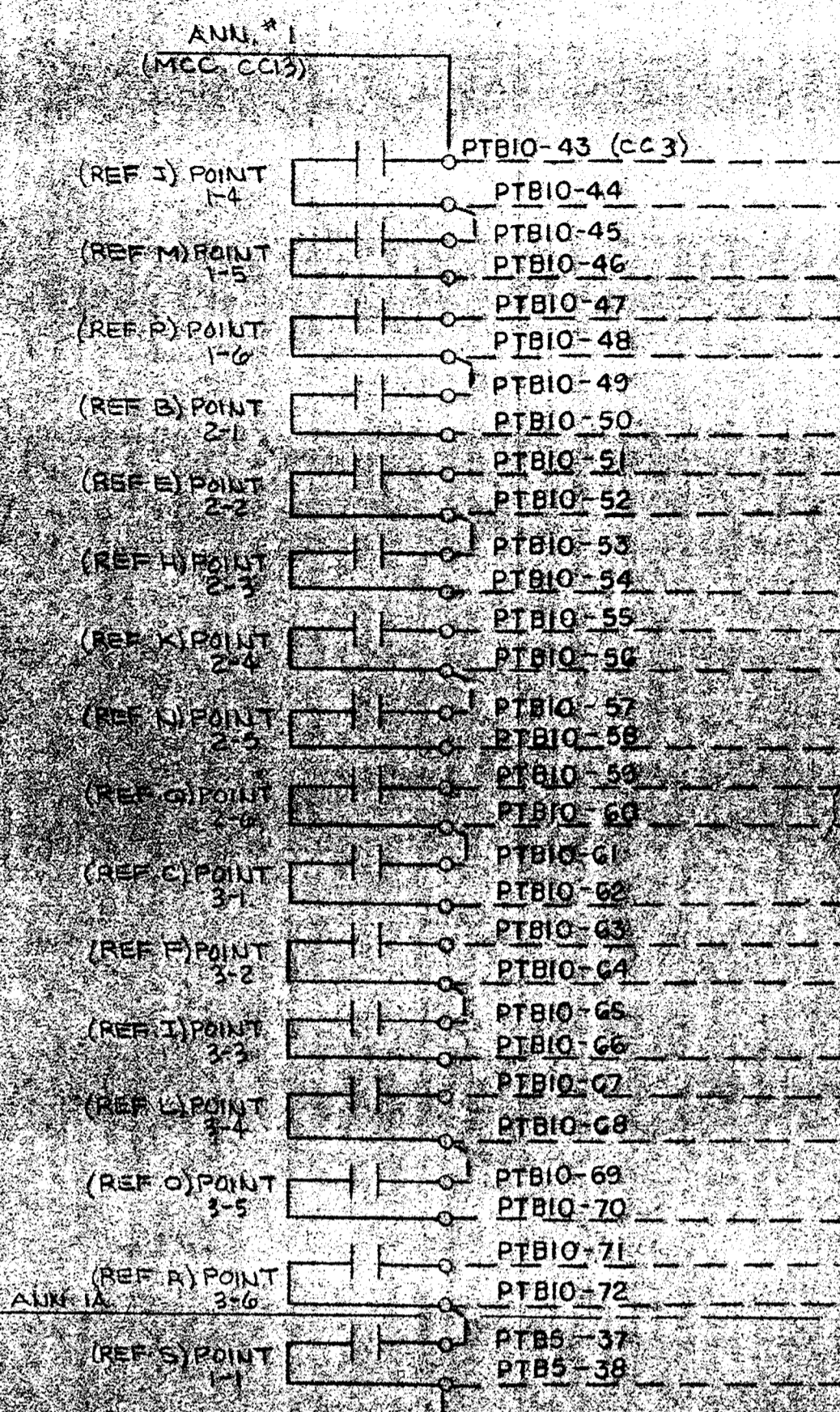


CB11, N, CB12 (PART OF AUTOMATIC TRANSFER SWITCH) AND DISTRIBUTION
 PANEL ARE LOCATED IN INPUT-OUTPUT SECTION (RIGHT SIDE OF SYSTEM).
 PHASE SEQUENCE OF A-B-C MUST BE MAINTAINED ON CB11 AND CB12.
 CONNECTIONS - TERMINATE WIRES ON CIRCUIT BREAKERS AND NEUTRAL BUS.
 CB52 IS LOCATED ON RIGHT SIDE OF CHARGER SECTION. TERMINATE WIRES
 ON CB52.
 TB3 IS IN THE INVERTER SECTION, UPPER RIGHT SIDE.
 ALARM TERMINALS ARE SHOWN ON PILL-1

D	7/12/73	AS INSTALLED		CE
C	7/21/73	PROP. 10-DEEP RUN		CE
B	7/23/73	100WGS. SUB. FOR DEEP RD	SUB 2	CC
A	7/24/73	ENG. CHG'S	SUB	CE
REV.	DATE	DESCRIPTION	CHK.	APPD.

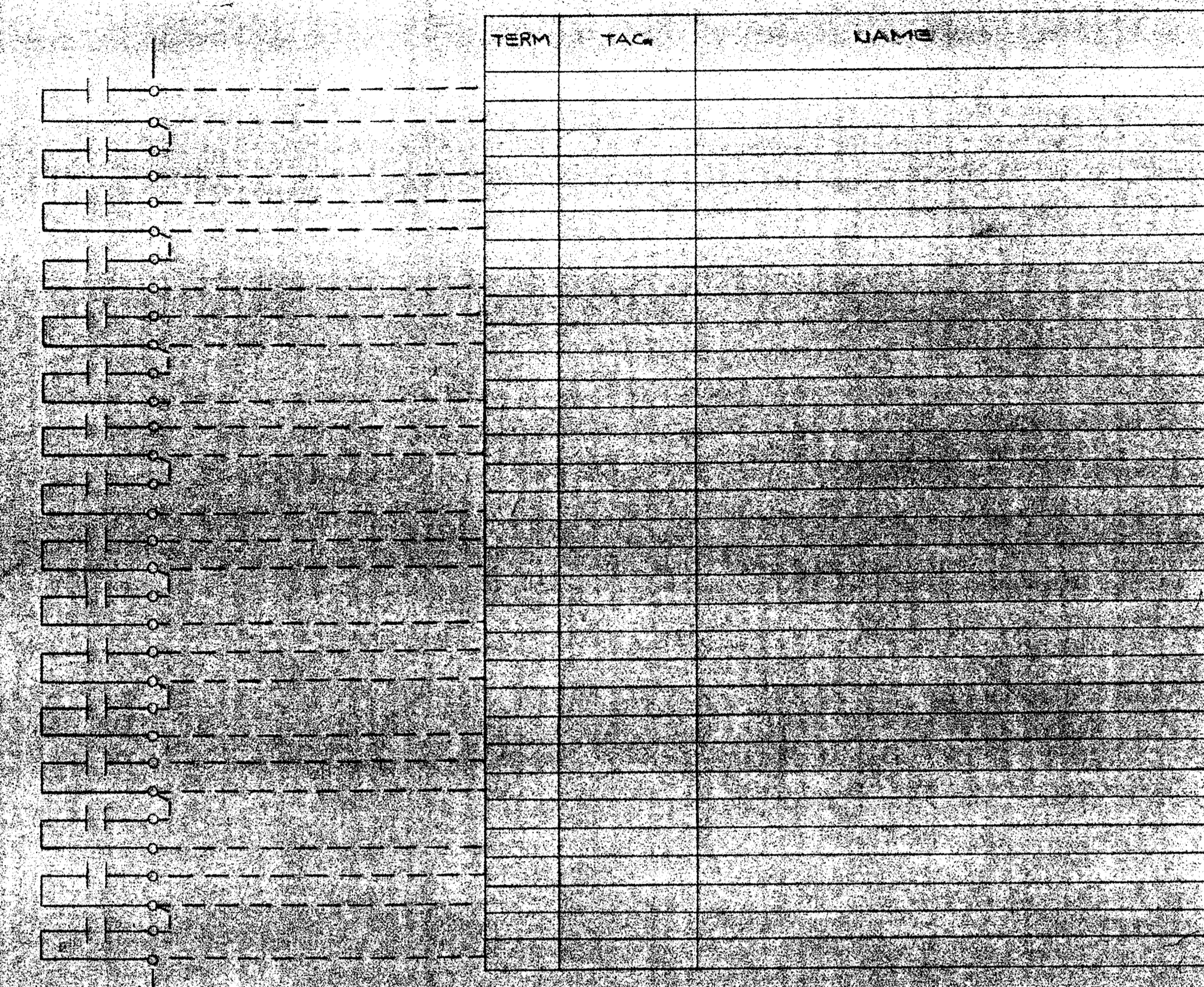
HONEYWELL INC.
 VALLEY FORGE, PA.

DRAFTER	DATE	SAVAGE WASTEWATER TREATMENT PLANT
CHK.	7/21/73	UPS POWER FIELDWIRING
ENGR.	8/21/73	
SCALE	1/1	DWG NO 5100-28342-PD2 SHT 2 OF 2



TERM	TAG	NAME
1		OVERLOAD TURBINE DRIVE REACTOR CLARIFIER #1
2		SIGNAL COMMON
3		HIGH PH. REACTOR CLARIFIER #1
4		LOW PH. REACTOR CLARIFIER #1
5		SIGNAL COMMON
6		OVERLOAD TURBINE DRIVE PHOSPHORUS STRIPPER #2
7		HIGH SLUDGE BLANKET PHOSPHORUS STRIPPER #2
8		SIGNAL COMMON
9		OVERLOAD CENTER DRIVE REACTOR CLARIFIER #2
10		OVERLOAD TURBINE DRIVE REACTOR CLARIFIER #2
11		SIGNAL COMMON
12		HIGH PH. REACTOR CLARIFIER #2
13		LOW PH. REACTOR CLARIFIER #2
14		SIGNAL COMMON
15		OVERLOAD TURBINE DRIVE PHOSPHORUS STRIPPER #3
16		HIGH SLUDGE BLANKET PHOSPHORUS STRIPPER #3
17		SIGNAL COMMON
18		OVERLOAD CENTER DRIVE REACTOR CLARIFIER #3
19		OVERLOAD TURBINE DRIVE REACTOR CLARIFIER #3
20		SIGNAL COMMON
21		HIGH PH. REACTOR CLARIFIER #3
22		LOW PH. REACTOR CLARIFIER #3
23		SIGNAL COMMON
24		HIGH SLUDGE BLANKET REACTOR CLARIFIER #3

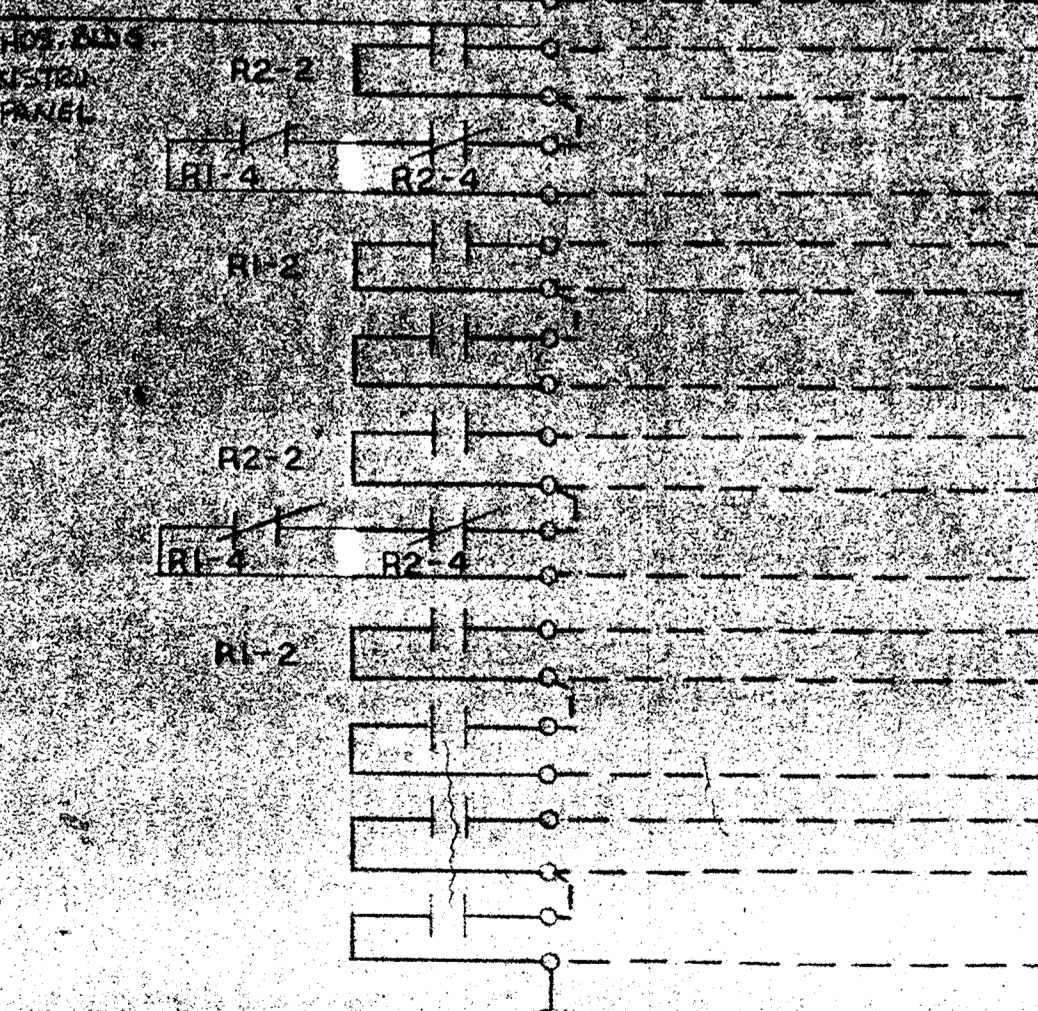
CABINET NO. 1142
 CFA NO. 7
 TERM BLOCK NO. 7
 CARD TYPE PXTD2



TERM	TAG	NAME
25		HIGH LEVEL RETURN OVERFLOW SWITCH #2
26		SIGNAL COMMON
27		HIGH SLUDGE BLANKET REACTOR CLARIFIER #2
28		LOW LEVEL OVERFLOW CHAMBER REACTOR CLARIFIER #2
29		SIGNAL COMMON
30		HIGH SLUDGE BLANKET REACTOR CLARIFIER #3
31		LOW LEVEL OVERFLOW CHAMBER REACTOR CLARIFIER #3
32		SIGNAL COMMON
33		PHOS. STRIP. NO. 1 INCIDENT SLUDGE VALVE CONTROL
34		PHOS. STRIP. NO. 2 INCIDENT SLUDGE VALVE CONTROL
35		PHOS. STRIP. NO. 1 INCIDENT SLUDGE VALVE CONTROL
36		PHOS. STRIP. NO. 2 INCIDENT SLUDGE VALVE CONTROL
37		SIGNAL COMMON
38		
39		
40		
41		
42		
43		
44		
45		
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CABINET NO. 1142
 CFA NO. 1
 TERM BLOCK NO. 8
 CARD TYPE PXTD2

CABINET NO. 1142
 CFA NO. 1
 TERM BLOCK NO. 8
 CARD TYPE PXTD2



TERM	TAG	NAME
65		PHOS. STRIP. NO. 1 INCIDENT SLUDGE VALVE CONTROL
66		PHOS. STRIP. NO. 2 INCIDENT SLUDGE VALVE CONTROL
67		PHOS. STRIP. NO. 1 INCIDENT SLUDGE VALVE CONTROL
68		PHOS. STRIP. NO. 2 INCIDENT SLUDGE VALVE CONTROL
69		SIGNAL COMMON
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100		

PROVIDED



LEGEND
 - - - FIELD WIRING (NOT BY HONEYWELL)
 ——— WIRING (BY HONEYWELL)
 BACK OF PANEL TERMINAL
 PNEUMATIC CONNECTION
 DEVICES (NOT BY HONEYWELL)
 20 PSIG AIR SUPPLY

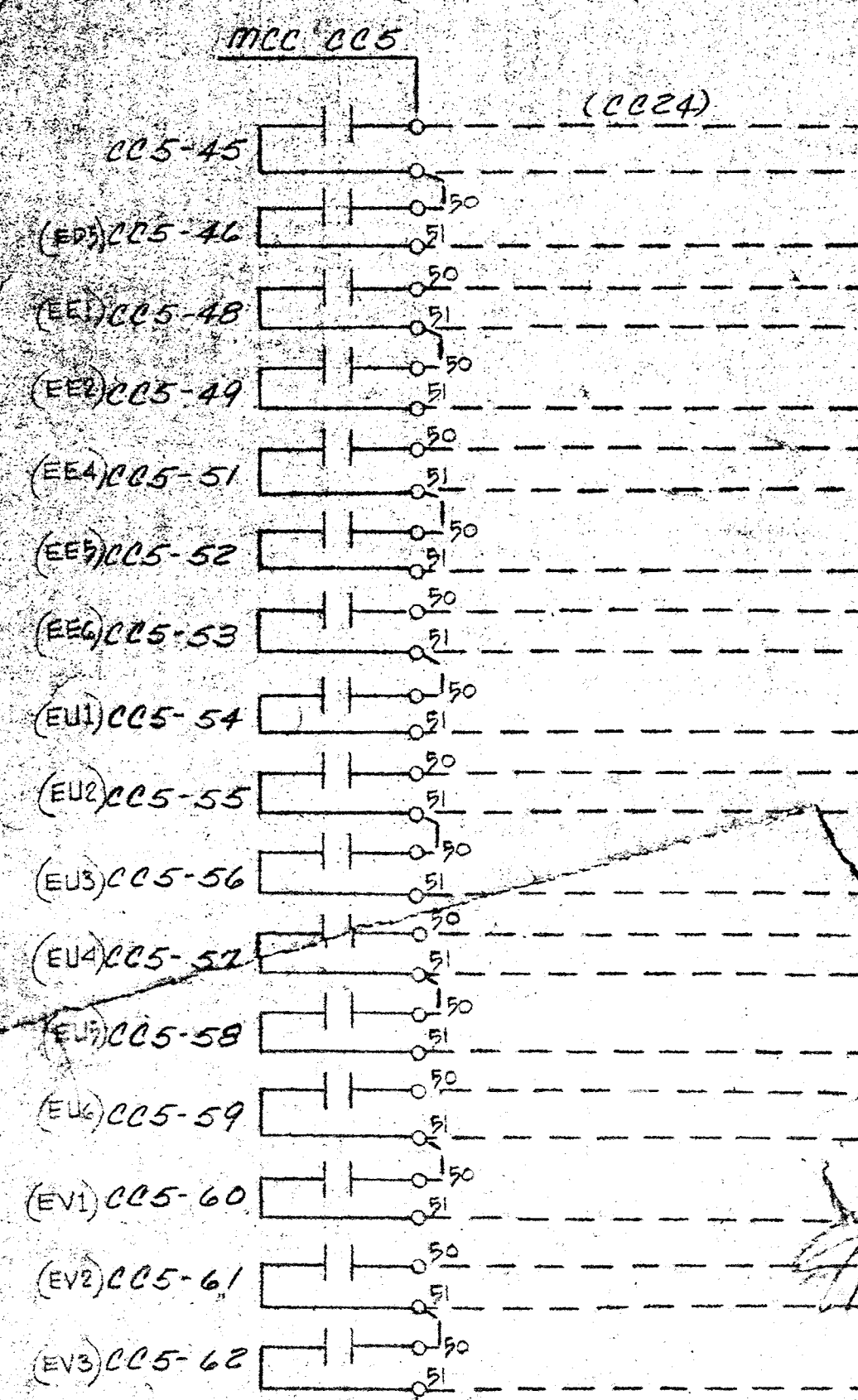
REV.	DATE	DESCRIPTION	CHK.	APPD.
E	7/16/62	AS INSTALLED		CC
D	7/16/62	ENGR. CHG.		CC
C	7/16/62	ENGR. CHG.		CC
B	7/16/62	CON. CHGS.		CC
A	8/23/62	ENGR. CHG'S		CC
1	7/17/73	ENG. UPDATE	JMB	

HONEYWELL INC.
 VALLEY FORGE, PA.

DRAFTER	DATE	SCALE	DWG. NO.	SHT. OF
STEVE SMITH	7-17-73		716D-23342-PIU-5	5
CHK.				
ENGR.				
SCALE				

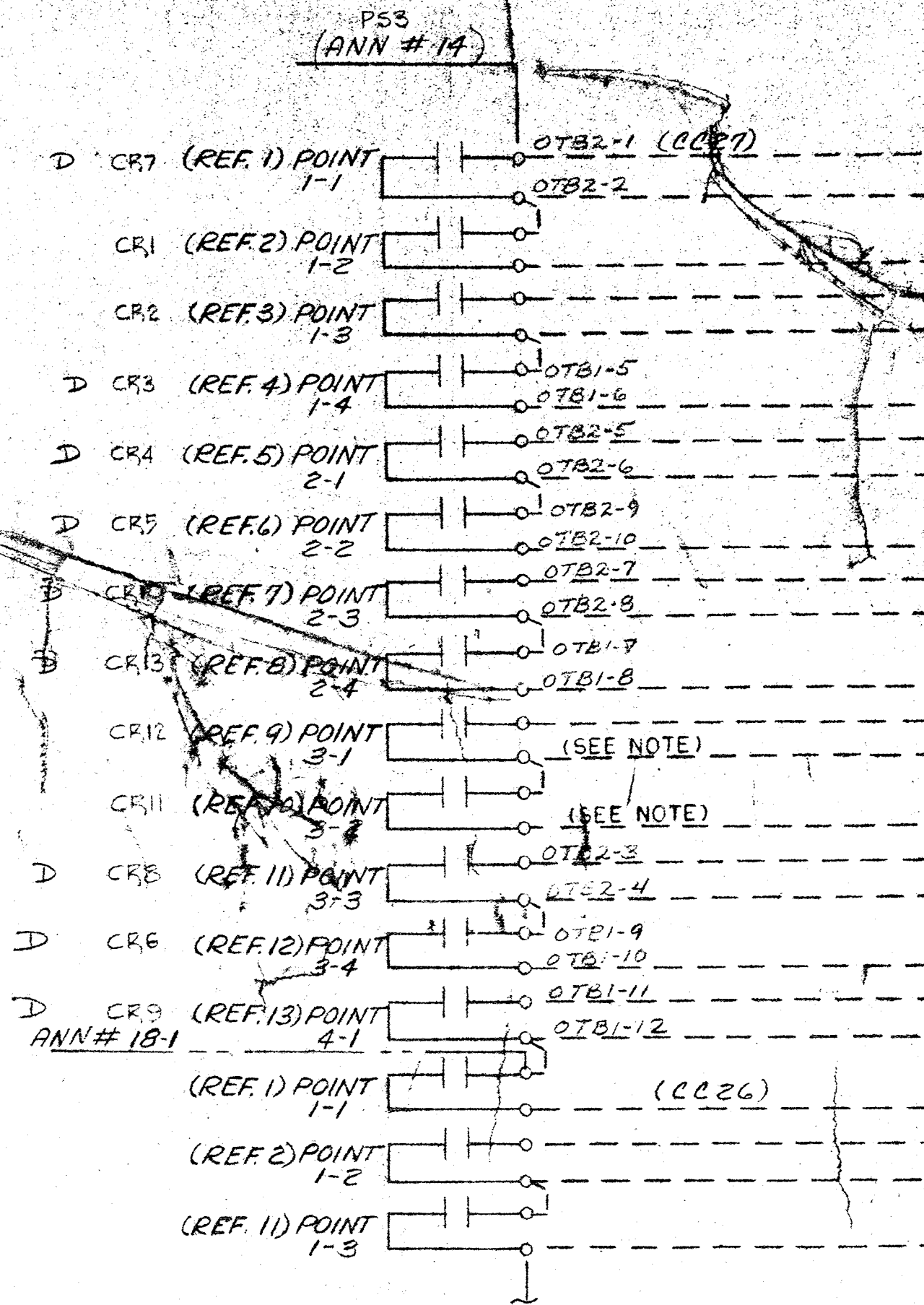
HOWARD COUNTY, MARYLAND
 ADDITION NO. 4 CONTRACT 305-5

NOTE: PS3 VENDOR HAS PARALLELED CR1, CR2, CR3, ALSO CR11, CR12 AND CR13. REWIRE TO USE AS SINGLE CONTACTS AS SHOWN BELOW.

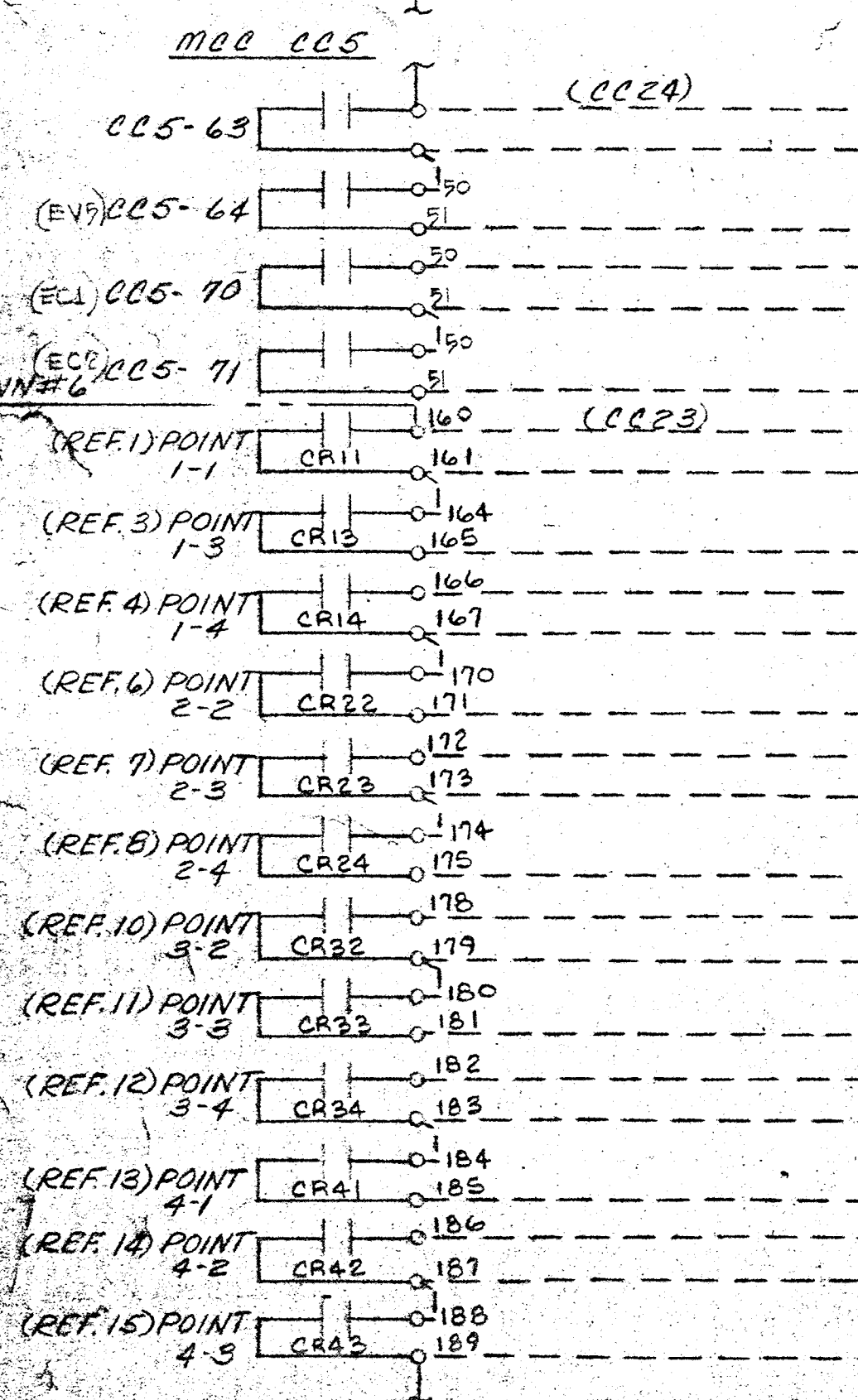


TERM	TAG	NAME
1		GRINDER #1
2		SIGNAL COMMON
3		PRIMARY SLUDGE PUMP #4
4		PIPE GALLERY UNIT HEATER #6
5		SIGNAL COMMON
6		PIPE GALLERY VENT-FAN #2
7		SECONDARY CLARIFIER #5
8		SIGNAL COMMON
9		PRIMARY CLARIFIER #5
10		WAS PUMP #1
11		SIGNAL COMMON
12		PIPE GALLERY UNIT HEATER #7
13		WAS PUMP #2
14		SIGNAL COMMON
15		RETURN SLUDGE PUMP #5B
16		PRIMARY CLARIFIER #4
17		SIGNAL COMMON
18		PRIMARY SLUDGE PUMP #5
19		SCUM PUMP SECONDARY CLARIFIER #4
20		SIGNAL COMMON
21		PIPE GALLERY UNIT HEATER #8
22		PIPE GALLERY UNIT HEATER #17
23		SIGNAL COMMON
24		RETURN SLUDGE PUMP #5A

CABINET NO. HLB
CFA NO. 1
TERM BLOCK NO. 3
CARD TYPE P&ID21



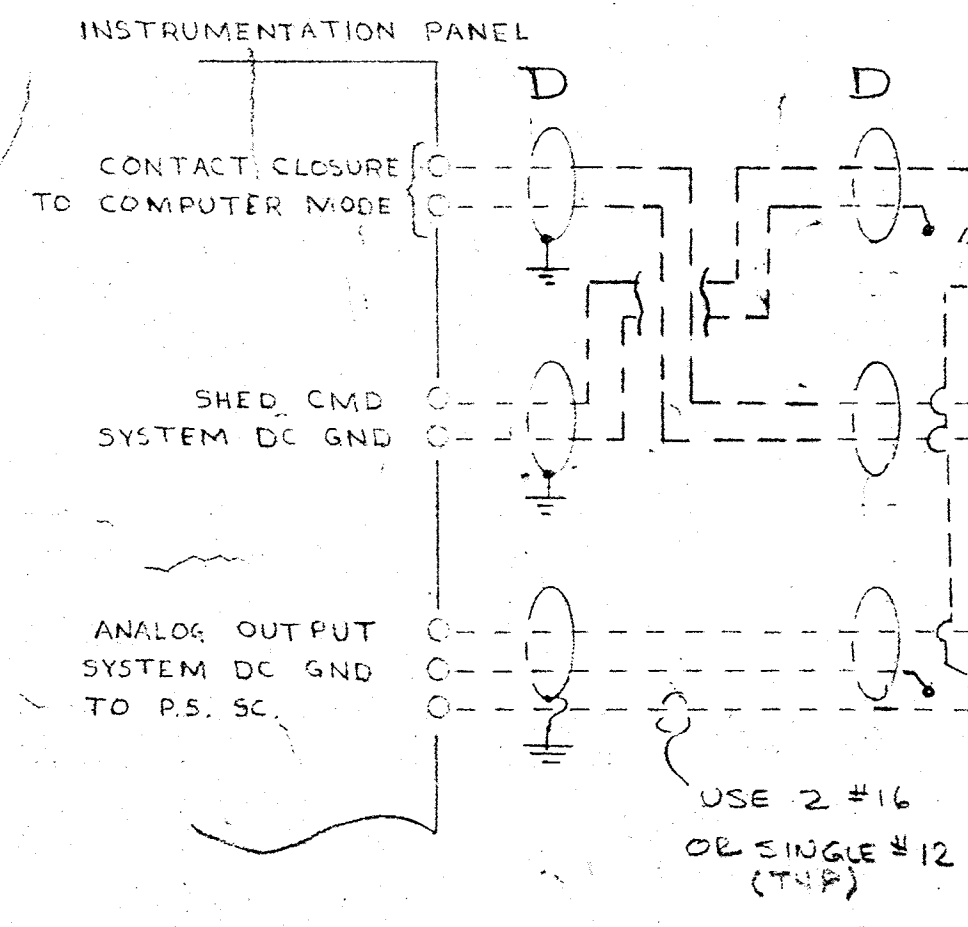
TERM	TAG	NAME
1		MAIN SWITCH #1 - OPEN SUBSTATION PS3 PLANT FDR
2		SIGNAL COMMON
3		HIGH TEMPERATURE 1000 KVA TRANSF #1 SUBSTATION PS3
4		LOW LIQUID LEVEL 1000 KVA TRANSF #1 SUBSTATION PS3
5		SIGNAL COMMON
6		HIGH PRESSURE 1000 KVA TRANSF #1 SUBSTATION PS3
7		MAIN BREAKER #1 - OPEN 480 V SWITCHGEAR SUBSTATION PS3
8		SIGNAL COMMON
9		TIE BREAKER CLOSED 480 V SWITCHGEAR SUBSTATION PS3
10		MAIN BREAKER #2 - OPEN 480 V SWITCHGEAR SUBSTATION PS3
11		SIGNAL COMMON
12		HIGH PRESSURE 1000 KVA TRANSF #2 SUBSTATION PS3
13		LOW LIQUID LEVEL 1000 KVA TRANSF #2 SUBSTATION PS3
14		SIGNAL COMMON
15		HIGH TEMPERATURE 1000 KVA TRANSF #2 SUBSTATION PS3
16		MAIN SWITCH #2 - OPEN SUBSTATION PS3 PLANT FDR
17		SIGNAL COMMON
18		NO VOLTAGE 480 V SERVICE #1 SUBSTATION PS3
19		NO VOLTAGE 480 V SERVICE #2 SUBSTATION PS3
20		SIGNAL COMMON
21		HIGH SUSPENDED SOLIDS NITRIFICATION AERATION BASIN #2
22		LOW D.O. - MIDPOINT NITRIFICATION AERATION BASIN #2B
23		SIGNAL COMMON
24		LOW D.O. EFFLUENT NITRIFICATION AERATION BASIN #2B



TERM	TAG	NAME
1		GRINDER #2
2		SIGNAL COMMON
3		PRIMARY SLUDGE PUMP #4/5 - STANDBY
4		SCUM PUMP PRIMARY CLARIFIER #5
5		SIGNAL COMMON
6		SCUM PUMP SECONDARY CLARIFIER #5
7		SET RATE DEVIATION CHEMICAL FEEDER #1 CHEMICAL BLDG
8		SIGNAL COMMON
9		LOW STORAGE BIN CHEMICAL FEEDER #1 CHEMICAL BLDG
10		SET RATE DEVIATION CHEMICAL FEEDER #2 CHEMICAL BLDG
11		SIGNAL COMMON
12		LOW STORAGE BIN CHEMICAL FEEDER #2 CHEMICAL BLDG
13		LOW STORAGE BIN CHEMICAL FEEDER #3 CHEMICAL BLDG
14		SIGNAL COMMON
15		CENTER DRIVE OVERLOAD SECONDARY CLARIFIER #3
16		FLOODED PIPE GALLERY CHEMICAL BLDG
17		SIGNAL COMMON
18		MAIN BREAKER #1 - OPEN 480 V-MCC-CC6 CHEMICAL BLDG
19		TIE BREAKER - CLOSED 480 V-MCC-CC6 CHEMICAL BLDG
20		SIGNAL COMMON
21		MAIN BREAKER #2 - OPEN 480 V-MCC-CC6 CHEMICAL BLDG
22		NO VOLTAGE SERVICE FDR #1 480 V-MCC-CC6 CHEMICAL BLDG
23		SIGNAL COMMON
24		NO VOLTAGE SERVICE FDR #2 480 V-MCC-CC6 CHEMICAL BLDG

CABINET NO. HLB
CFA NO. 1
TERM BLOCK NO. 4
CARD TYPE P&ID21

CABINET NO. HLB
CFA NO. 1
TERM BLOCK NO. 5
CARD TYPE P&ID21



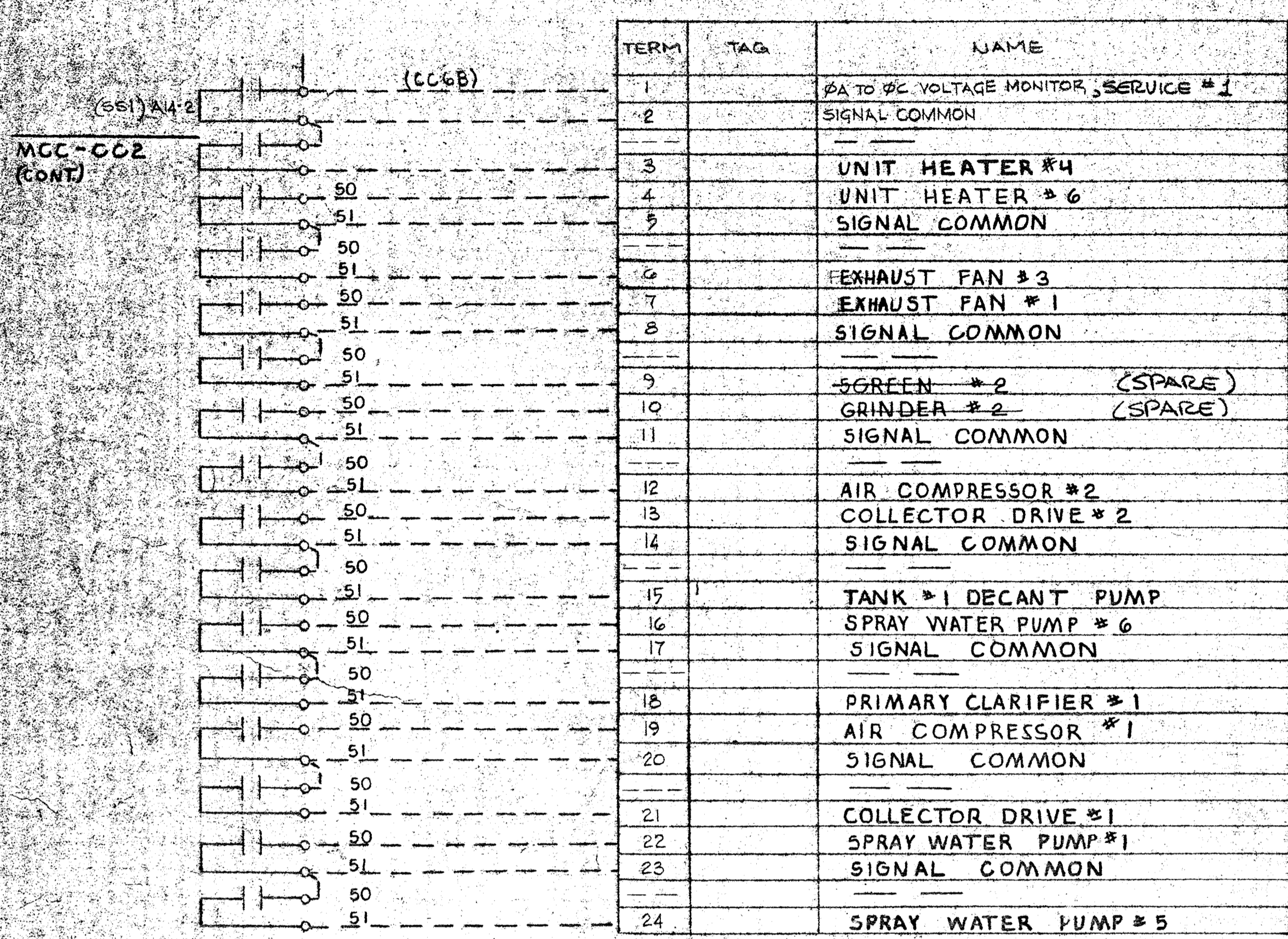
TERM	TAG	NAME
3		LIME SLURRY TRANSFER PUMPS 1 F2
2		LIME SLURRY TRANSFER PUMPS 1 E2
2		HLB-CFA2-TBG
3		HLB-CFA2-TBG
1		LIME SLURRY TRANSFER PUMPS 1 F2
2		" " " " " "
14		LIME SLURRY TRANSFER PUMPS 1 F2
15		SYSTEM DC GROUND
15		SYSTEM DC GROUND

LEGEND
 --- FIELD WIRING (NOT BY HONEYWELL)
 --- WIRING (BY HONEYWELL)
 □ BACK OF PANEL TERMINAL
 ○ PNEUMATIC CONNECTION
 ⊕ DEVICES (NOT BY HONEYWELL)
 ◀ 20 PSIG. AIR SUPPLY

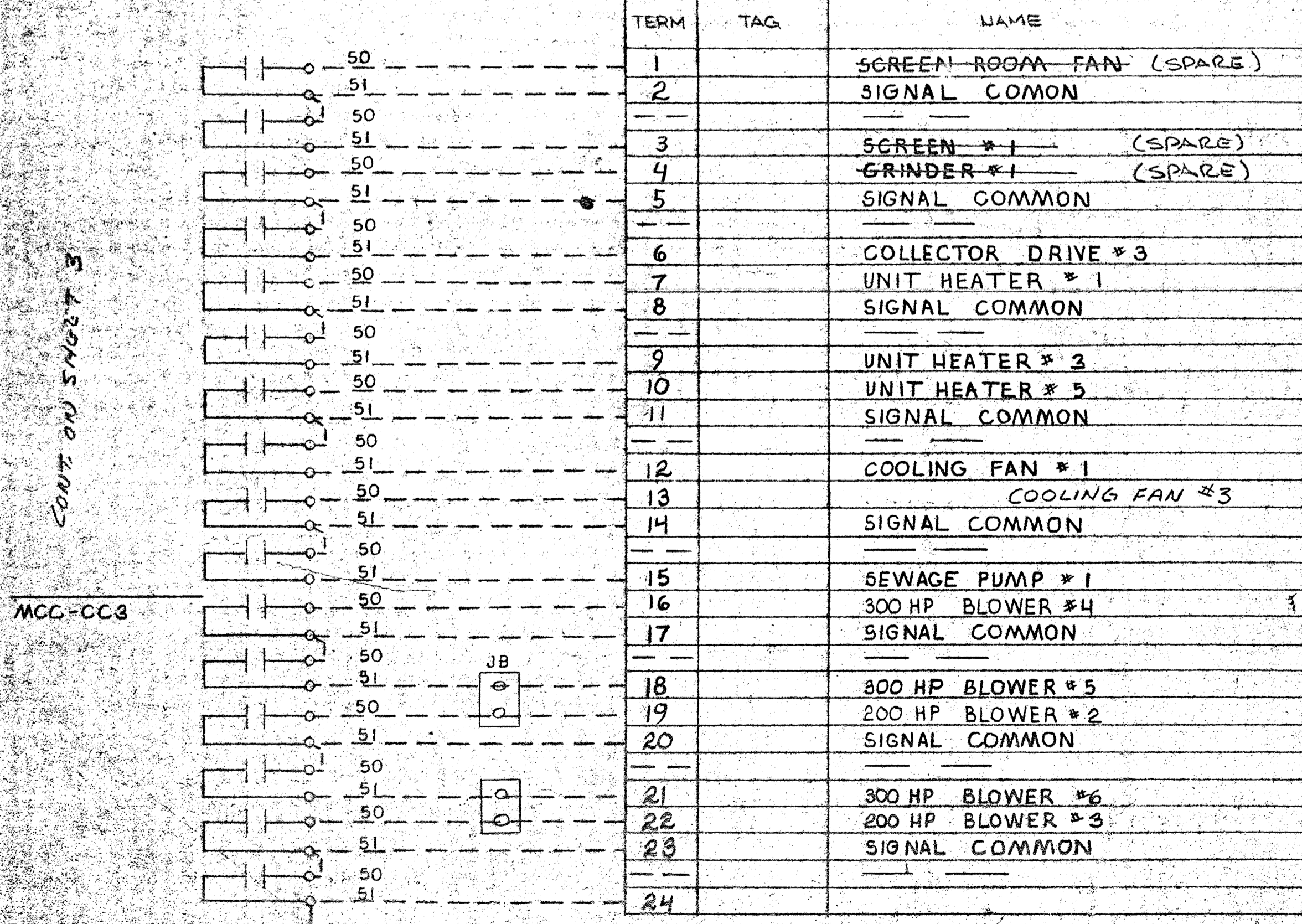
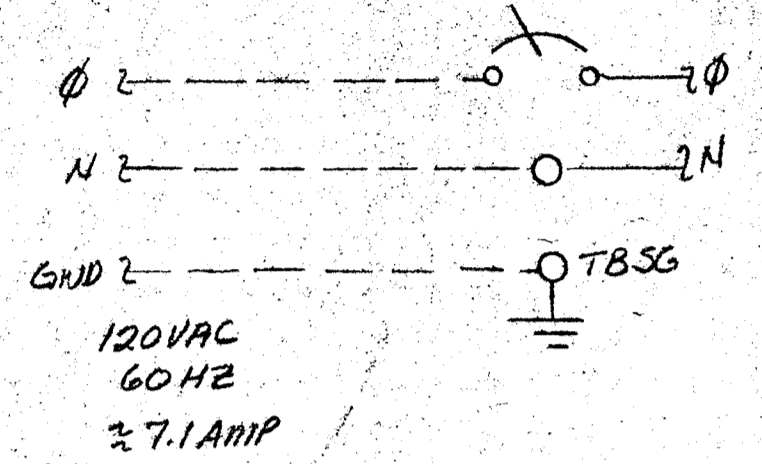
REV.	DATE	DESCRIPTION	CHK.	APPD.
E	7/16/82	AS INSTALLED		EE
D	8/24/82	ENGR. CHG.		EE
C	9/24/82	ENGR. CHG.		EE
B	10/24/82	ENGR. CHG.		EE
A	8/24/82	ENGR. CHG.		EE
1	8/24/82	ENGR. UPDATE		EE

HONEYWELL INC.
VALLEY FORGE, PA.
 SAVAGE WASTEWATER TREATMENT PLANT
 HOWARD COUNTY, MARYLAND
 ADDITION NO. 4 CONTRACT 505-S
 DATE: 9/19/82
 DRAFTER: LTO STEVE SMITH
 ENGR: R.E. W...
 SCALE: 1/8" = 1'-0"
 DWG. NO. 916D-28342-PIU-6 SHEET 2 OF 10

CABINET NO. HL 10
 CFA NO. 1
 TERM BLOCK NO. 7
 CARD TYPE PXIAZ1

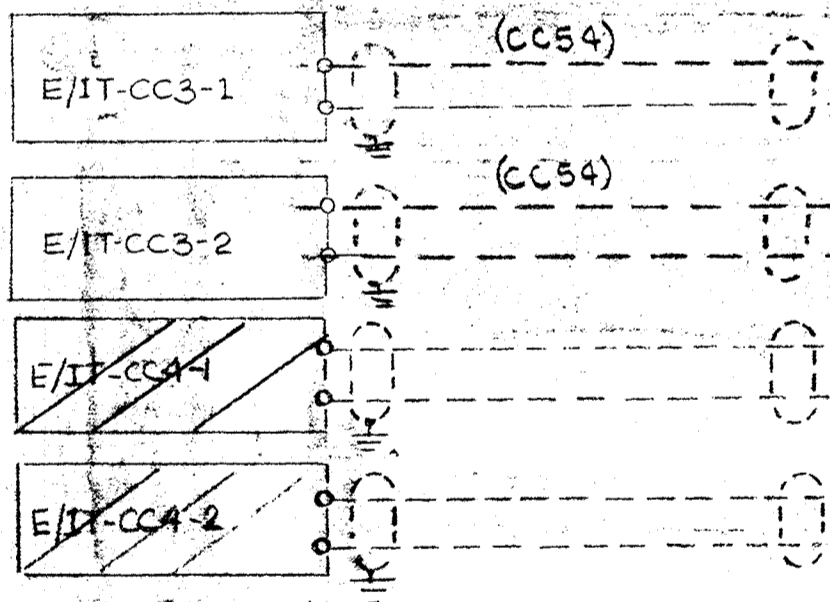


CABINET NO. HL 10
 CFA NO. 1
 TERM BLOCK NO. 7
 CARD TYPE PXID21

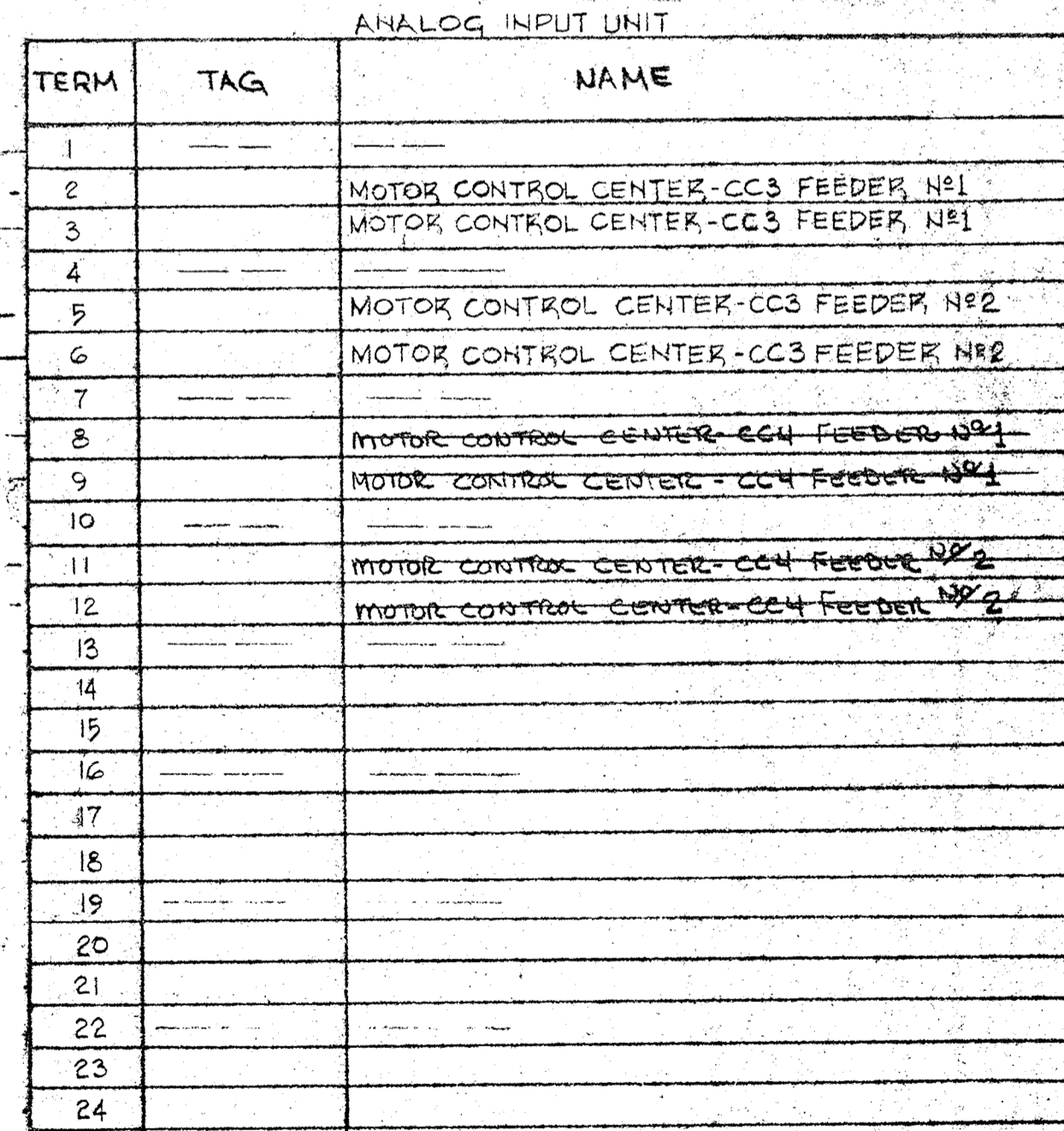
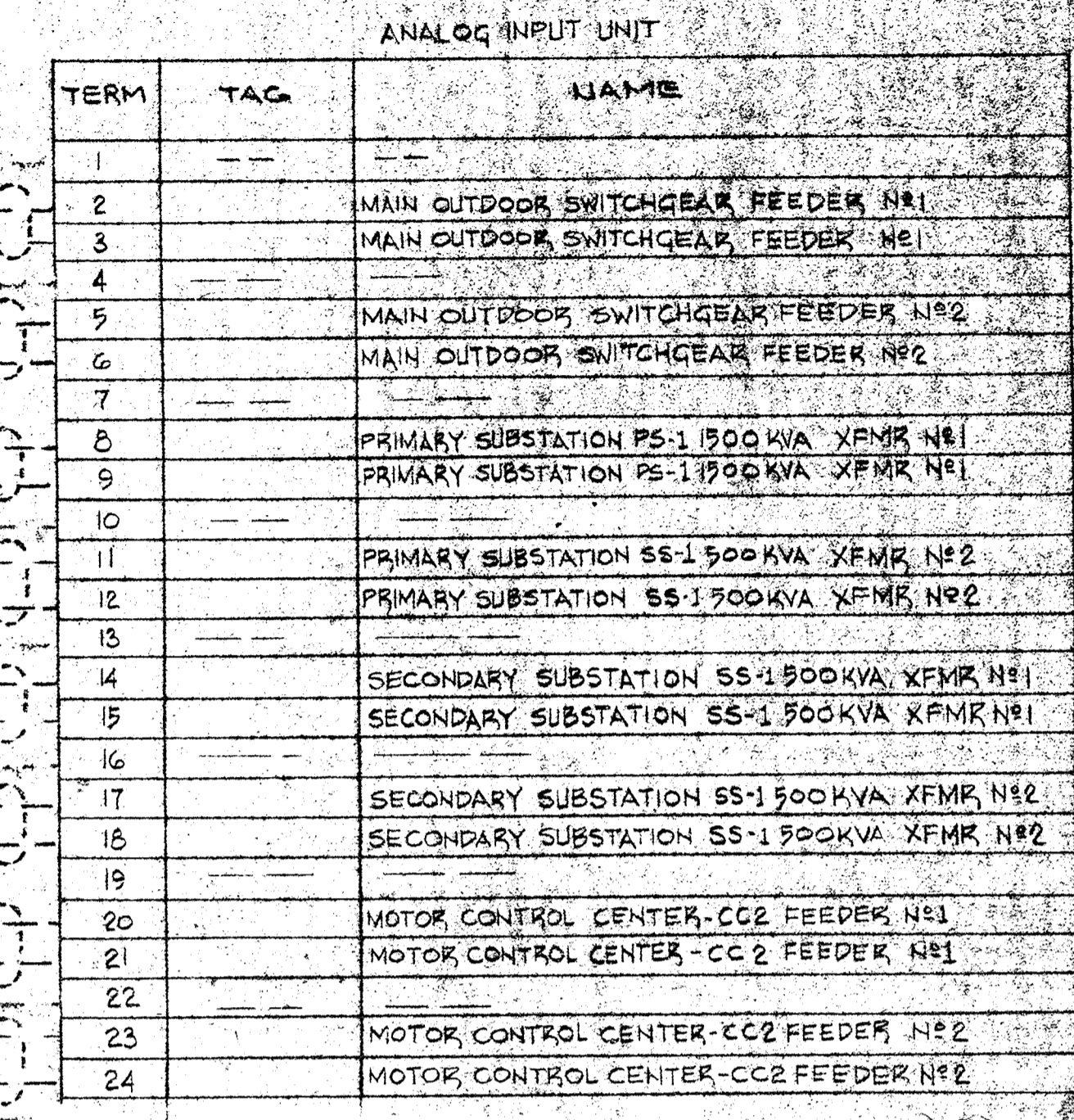


CABINET NO. HL 10
 CFA NO. 1
 TERM BLOCK NO. 8
 CARD TYPE PXID21

MCC-CC3
 4-20MA=2400KW
 MCC-CC3
 4-20MA=2400KW
 MCC-CC3
 4-20MA=720KW



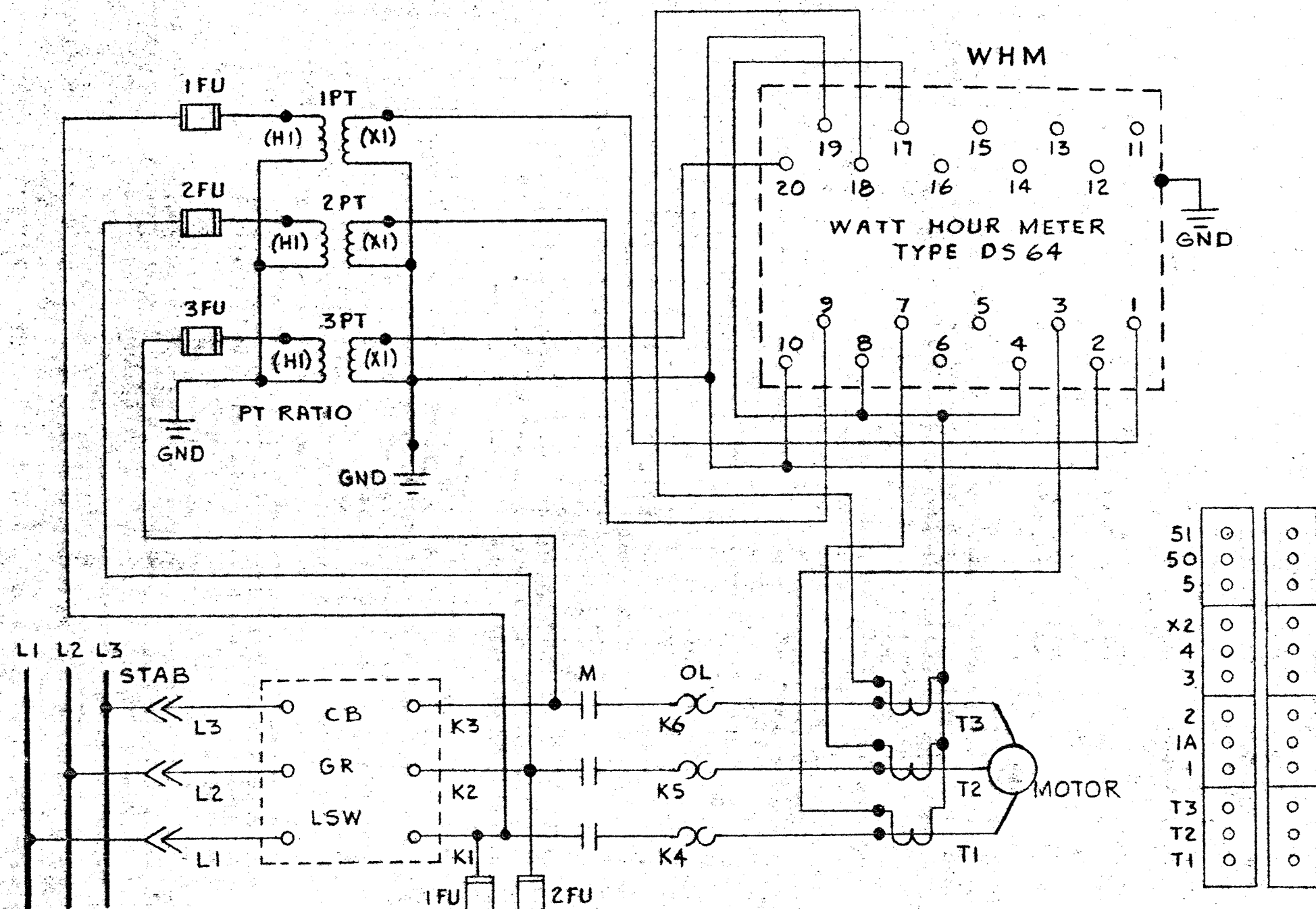
LEGEND
 FIELD WIRING (NOT BY HONEYWELL)
 WIRING (BY HONEYWELL)
 BACK OF PANEL TERMINAL
 PNEUMATIC CONNECTION
 DEVICES (NOT BY HONEYWELL)
 20 PSIG. AIR SUPPLY



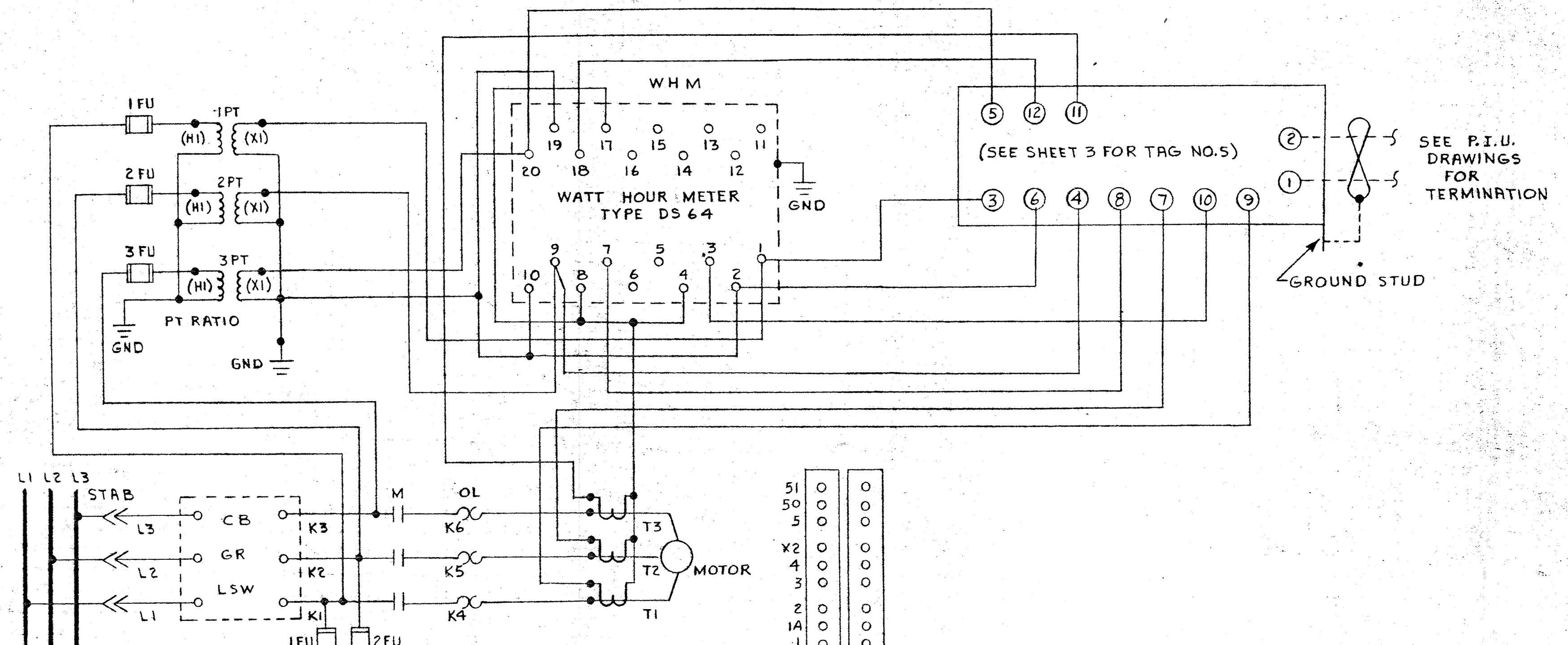
CABINET NO. HL 10
 CFA NO. 1
 TERM BLOCK NO. 2
 CARD TYPE PXIAZ1

REV	DATE	DESCRIPTION	CHK.	APPR.
F	7/16/82	AS INSTALLED		CE
E	8/20/82	ENG. CHG.		CE
D	7/16/82	ENG. CHG.		CE
C	5/28/82	CONCLUS.		CE
B	10/27/79	CONSULTANTS CHG'S.		CE
A	8/27/79	ENG. CHG'S.		CE
I	9/27/79	ENG. UPDATE		CE

HONEYWELL INC.
 VALLEY FORGE, PA.
 VALLEY FORGE, PA.
 SAVAGE WASTEWATER TREATMENT
 PLANT HOWARD COUNTY, MARYLAND
 ADDITION NO. 4 CONTRACT E05-S
 DRAFTER STEVE SMITH
 ENGR. [Signature]
 DATE 8/07/79
 DWG. NO. 916D-28342-P108
 SHEET 2 OF 3



TYPICAL WATT HOUR MOTOR FOR CIRCUIT
PRETRAINING TO AN INDIVIDUAL
MOTOR STARTER - PRESENT STATUS
FIGURE 3



TYPICAL WATT HOUR MOTOR FOR CIRCUIT PRETRAINING TO AN
INDIVIDUAL STARTER MODIFIED TO SHOW THE
ADDITION OF AN ELECTRONIC WATT TRANSDUCER
FIGURE 4

1. ALL POWER MONITORING CIRCUITS ARE THE SAME FOR MOTORS.
2. SEE SHEET 3 FOR TAG NUMBERS
3. WATT TRANSDUCERS ARE TO BE MOUNTED INSIDE PANEL NEAR WATT HOUR METER

LEGEND

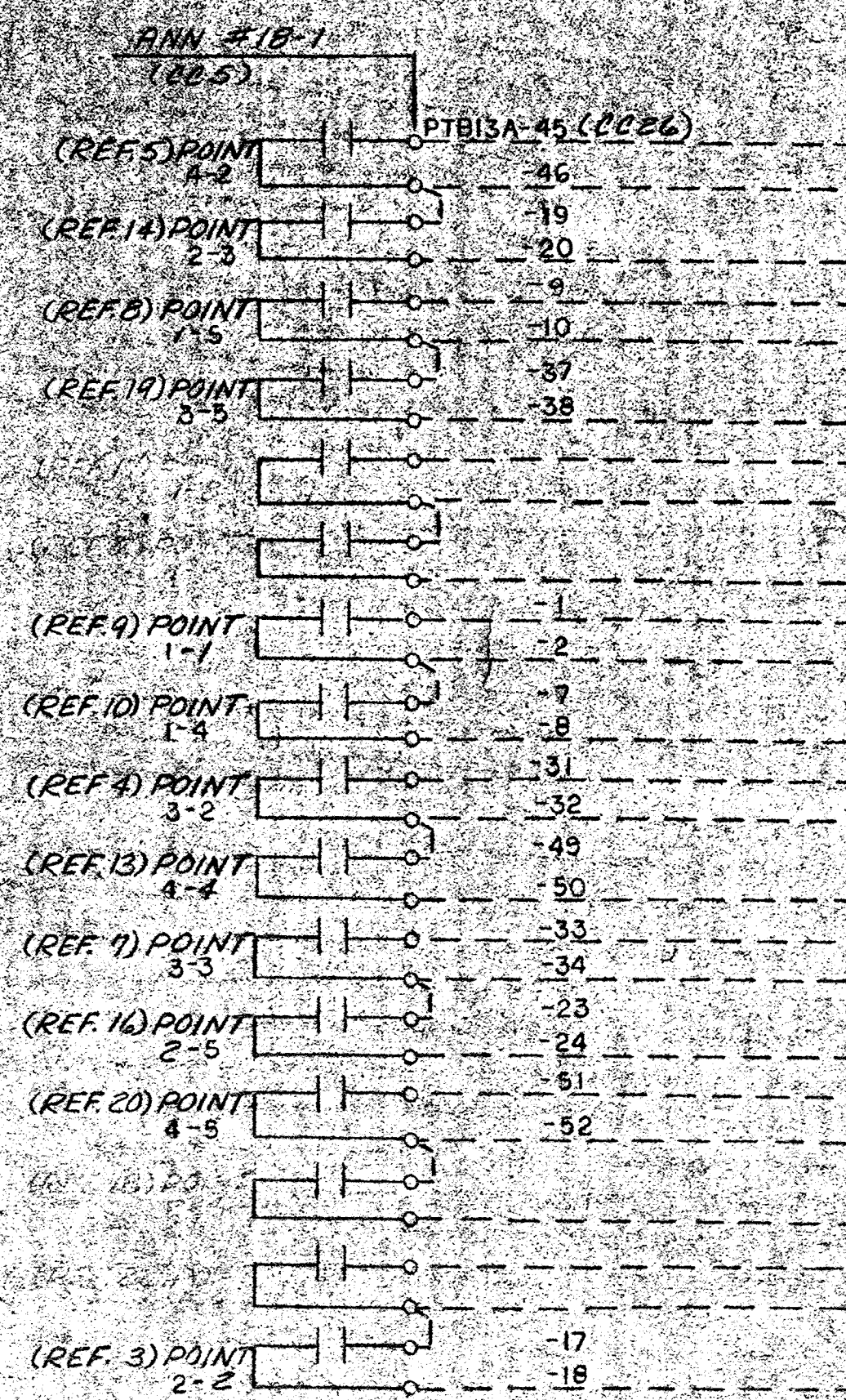
---	FIELD WIRING (NOT BY HONEYWELL)	⊗	DEVICES (NOT BY HONEYWELL)
---	WIRING (BY HONEYWELL)	◀	20 PSIG. AIR SUPPLY
□	BACK OF PANEL TERMINAL		
○	PNEUMATIC CONNECTION		

C	7/16/82	AS INSTALLED		
B	3/5/82	CON. CHECK - SUB. FOR RECORD	SUB-2	EE
A	8/27/79	Eng. Chg.	SUB	EE
REV.	DATE	DESCRIPTION	CHK.	APPD.

DRAFTER		RRL	DATE	4/17/79
CHK.		AMR	DATE	5/1/79
ENGR.		R. Enhr	DATE	8/27/79
SCALE		1/4"	DWG. NO.	916D-28342-PWR-1
			SHT.	2 OF 2

SAVAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY, MARYLAND
ADDITION NO.4 CONTRACT 505-5

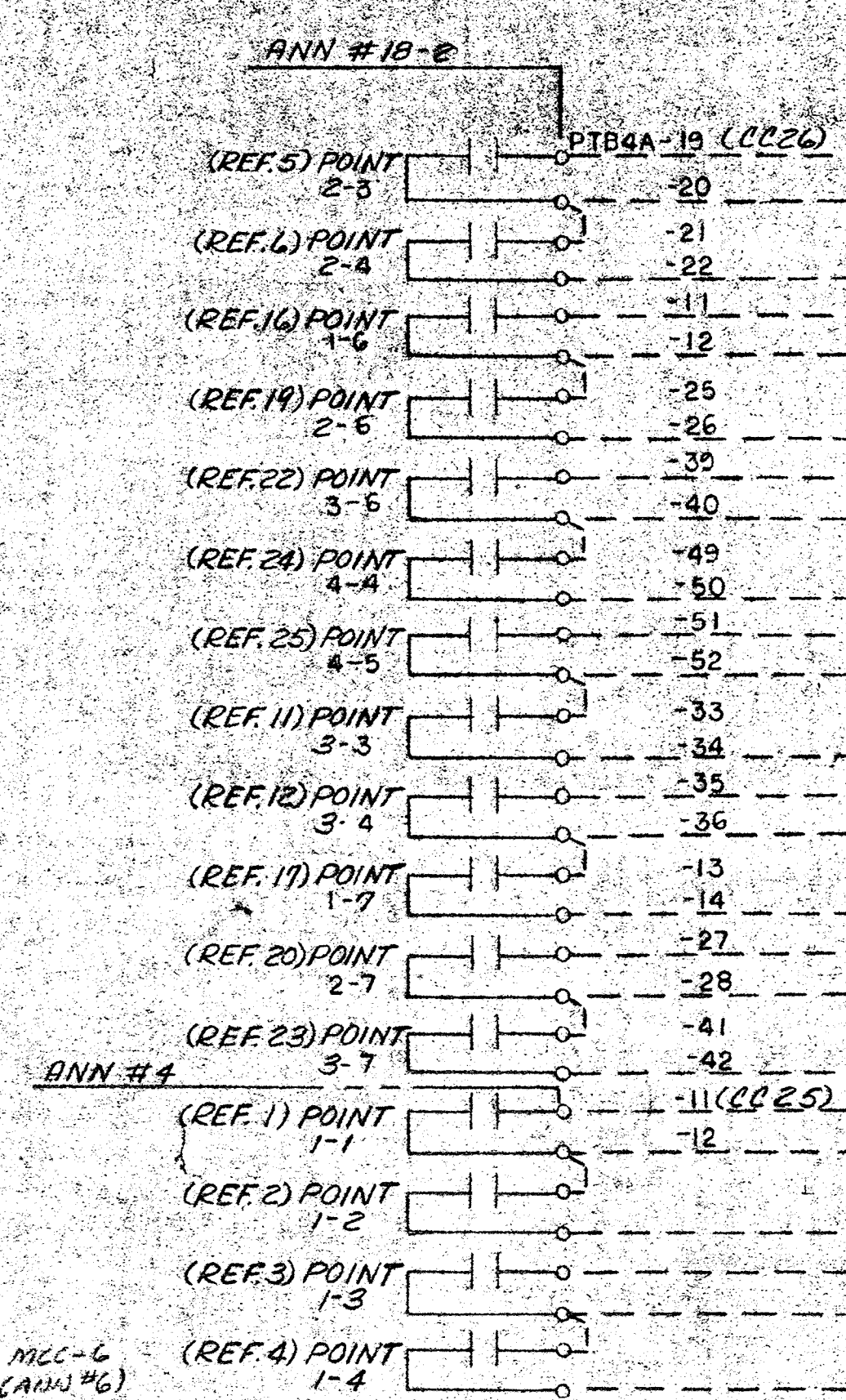
HONEYWELL INC.
VALLEY FORGE, PA.



TERM	TAG	NAME
1		LOW D.O. EFFLUENT NITRIFICATION AERATION BASIN #20
2		SIGNAL COMMON
3		LOW PH NITRIFICATION AERATION BASIN #20
4		HIGH SLUDGE BLANKET NITRIFICATION CLARIFIER #1
5		SIGNAL COMMON
6		HIGH SLUDGE BLANKET NITRIFICATION CLARIFIER #1
7		SIGNAL COMMON
8		SIGNAL COMMON
9		SIGNAL COMMON
10		LOW SUSPENDED SOLIDS NITRIFICATION AERATION BASIN #22 & #23
11		SIGNAL COMMON
12		LOW D.O. EFFLUENT NITRIFICATION AERATION BASIN #22
13		LOW D.O. MIDPOINT NITRIFICATION AERATION BASIN #23
14		SIGNAL COMMON
15		LOW D.O. EFFLUENT NITRIFICATION AERATION BASIN #28
16		LOW PH NITRIFICATION AERATION BASIN #34
17		SIGNAL COMMON
18		HIGH SLUDGE BLANKET NITRIFICATION CLARIFIER #2
19		HIGH SLUDGE BLANKET NITRIFICATION CLARIFIER #4
20		SIGNAL COMMON
21		SIGNAL COMMON
22		SIGNAL COMMON
23		SIGNAL COMMON
24		LOW D.O. MIDPOINT NITRIFICATION AERATION BASIN #22

CABINET NO. HLB
CFA NO. 1
TERM BLOCK NO. 2
CARD TYPE P11D21

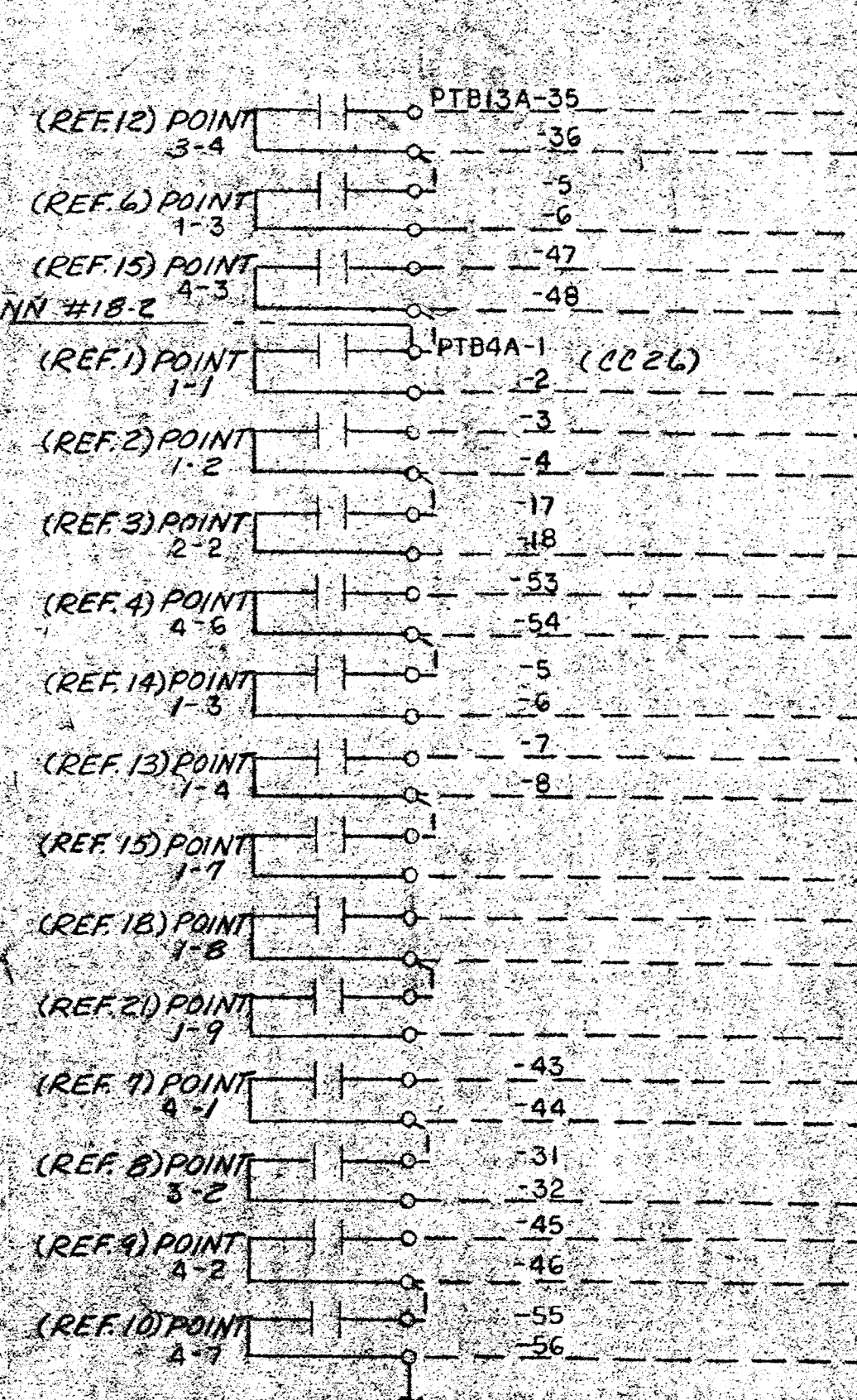
B
B



TERM	TAG	NAME
1		HIGH SLUDGE BLANKET SECONDARY CLARIFIER #1
2		SIGNAL COMMON
3		HIGH SCUM PIT LEVEL SECONDARY CLARIFIER #4
4		HIGH SLAKER WATER LEVEL CHEMICAL FEEDER #1 CHEMICAL BLDG
5		SIGNAL COMMON
6		HIGH SLAKER WATER LEVEL CHEMICAL FEEDER #2 CHEMICAL BLDG
7		HIGH SLAKER WATER LEVEL CHEMICAL FEEDER #3 CHEMICAL BLDG
8		SIGNAL COMMON
9		HIGH SCUM PIT LEVEL PRIMARY CLARIFIER #1
10		HIGH SCUM PIT LEVEL PRIMARY CLARIFIER #2
11		SIGNAL COMMON
12		HIGH SLUDGE BLANKET SECONDARY CLARIFIER #5
13		HIGH SCUM PIT LEVEL SECONDARY CLARIFIER #5
14		SIGNAL COMMON
15		LOW SLAKER WATER LEVEL CHEMICAL FEEDER #1 CHEMICAL BLDG
16		LOW SLAKER WATER LEVEL CHEMICAL FEEDER #2 CHEMICAL BLDG
17		SIGNAL COMMON
18		LOW SLAKER WATER LEVEL CHEMICAL FEEDER #3 CHEMICAL BLDG
19		FLOODED PIPE GALLERY AERATION BASIN WEST AERATION STRUCTURE
20		SIGNAL COMMON
21		LOW SPRAY WATER PRESSURE AERATION BASIN
22		LOW STATION ATR PRESSURE AERATION BASIN
23		SIGNAL COMMON
24		OVERLOAD CENTER DRIVE SECONDARY CLARIFIER #3

MCC-6
(ANN #6)

SPARE D
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SPARE D
SPARE D
SPARE D
IN MCC-6
ANN-6
PRO-9 D

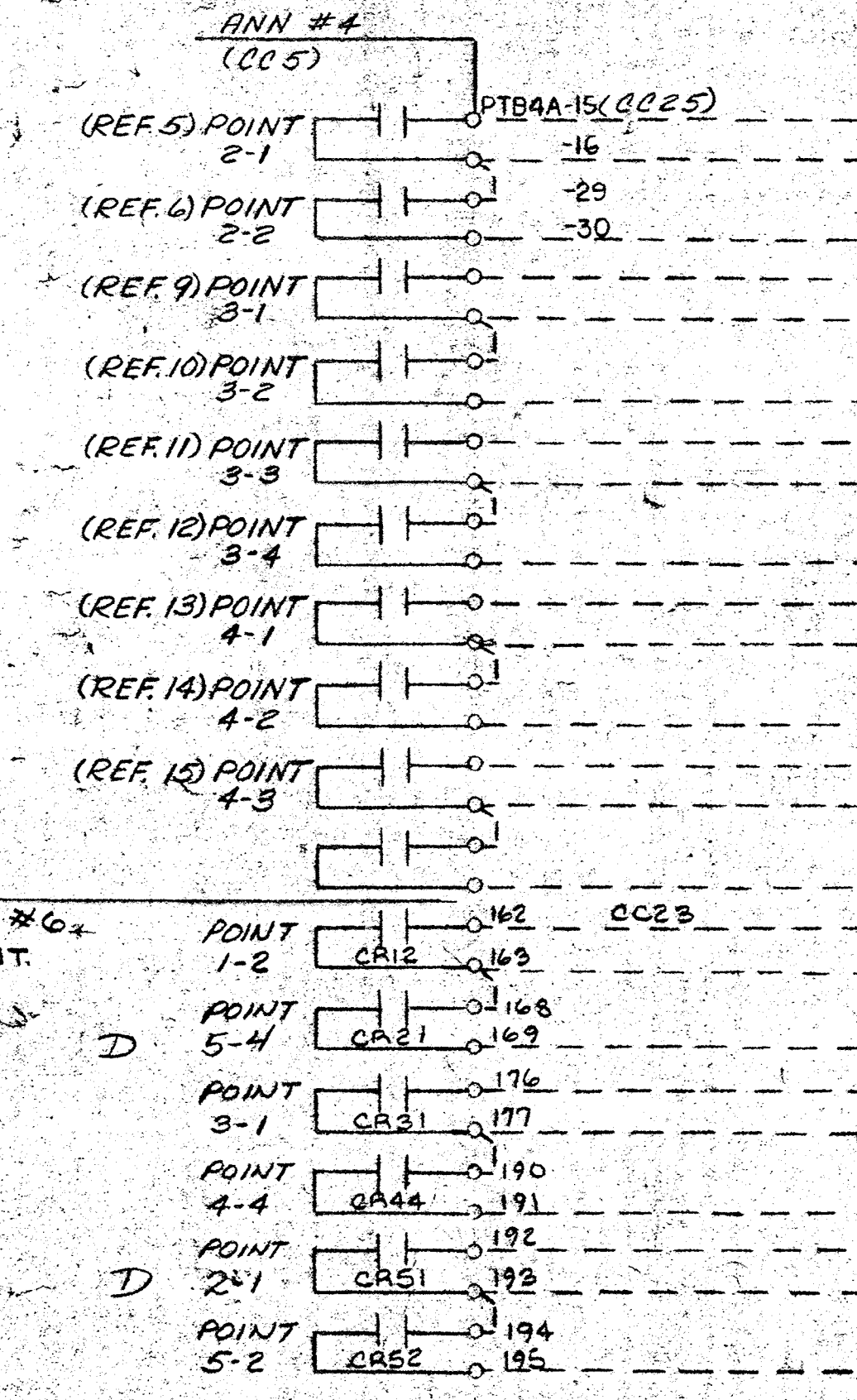


TERM	TAG	NAME
1		LOW D.O. EFFLUENT NITRIFICATION AERATION BASIN #24
2		SIGNAL COMMON
3		LOW PH NITRIFICATION AERATION BASIN #28
4		LOW PH NITRIFICATION AERATION BASIN #28
5		SIGNAL COMMON
6		HIGH SUSPENDED SOLIDS ACTIVATED SLUDGE AERATION BASIN #14 & #15
7		LOW D.O. MIDPOINT ACTIVATED SLUDGE AERATION BASIN #4
8		SIGNAL COMMON
9		LOW D.O. MIDPOINT ACTIVATED SLUDGE AERATION BASIN #8
10		LOW PH EFFLUENT ACTIVATED SLUDGE AERATION BASIN #4 & #5
11		SIGNAL COMMON
12		HIGH SLUDGE BLANKET SECONDARY CLARIFIER #3
13		HIGH SCUM PIT LEVEL SECONDARY CLARIFIER #3
14		SIGNAL COMMON
15		HIGH SLAKER TEMP. CHEMICAL FEEDER #1 CHEMICAL BLDG
16		HIGH SLAKER TEMP. CHEMICAL FEEDER #2 CHEMICAL BLDG
17		SIGNAL COMMON
18		HIGH SLAKER TEMP. CHEMICAL FEEDER #3 CHEMICAL BLDG
19		LOW SUSPENDED SOLIDS ACTIVATED SLUDGE AERATION BASIN #4 & #5
20		SIGNAL COMMON
21		LOW D.O. EFFLUENT ACTIVATED SLUDGE AERATION BASIN #4
22		LOW D.O. EFFLUENT ACTIVATED SLUDGE AERATION BASIN #5
23		SIGNAL COMMON
24		LOW PH EFFLUENT RAPID MIXER CHEMICAL BLDG

CABINET NO. HLB
CFA NO. 2
TERM BLOCK NO. 2
CARD TYPE P11D21

B
B

D
PRO-9
(FROM ANN #6)



TERM	TAG	NAME
1		OVERLOAD CENTER DRIVE SECONDARY CLARIFIER #4
2		SIGNAL COMMON
3		OVERLOAD CENTER DRIVE SECONDARY CLARIFIER #5
4		OVERLOAD CENTER DRIVE PRIMARY CLARIFIER #4
5		SIGNAL COMMON
6		OVERLOAD CENTER DRIVE PRIMARY CLARIFIER #5
7		MAIN BREAKER 1 - OPEN 480 V-MCC-CC5 A.B. CONTROL BLDG
8		SIGNAL COMMON
9		TIE BREAKER - CLOSED 480 V-MCC-CC5 A.B. CONTROL BLDG
10		MAIN BREAKER 2 - OPEN 480 V-MCC-CC5 A.B. CONTROL BLDG
11		SIGNAL COMMON
12		NO VOLTAGE SER. FOR-1 480 V-MCC-CC5 A.B. CONTROL BLDG
13		NO VOLTAGE SER. FOR-2 480 V-MCC-CC5 A.B. CONTROL BLDG
14		SIGNAL COMMON
15		SIGNAL COMMON
16		MALFUNCTION CHEMICAL FEEDER #1 CHEMICAL BLDG
17		SIGNAL COMMON
18		SET RATE DEVIATION CHEMICAL FEEDER #3 CHEMICAL BLDG
19		MALFUNCTION CHEMICAL FEEDER #2 CHEMICAL BLDG
20		SIGNAL COMMON
21		MALFUNCTION CHEMICAL FEEDER #3 CHEMICAL BLDG
22		(FUTURE) HI WATER LEVEL NIT. METER VAULT
23		SIGNAL COMMON
24		(FUTURE)

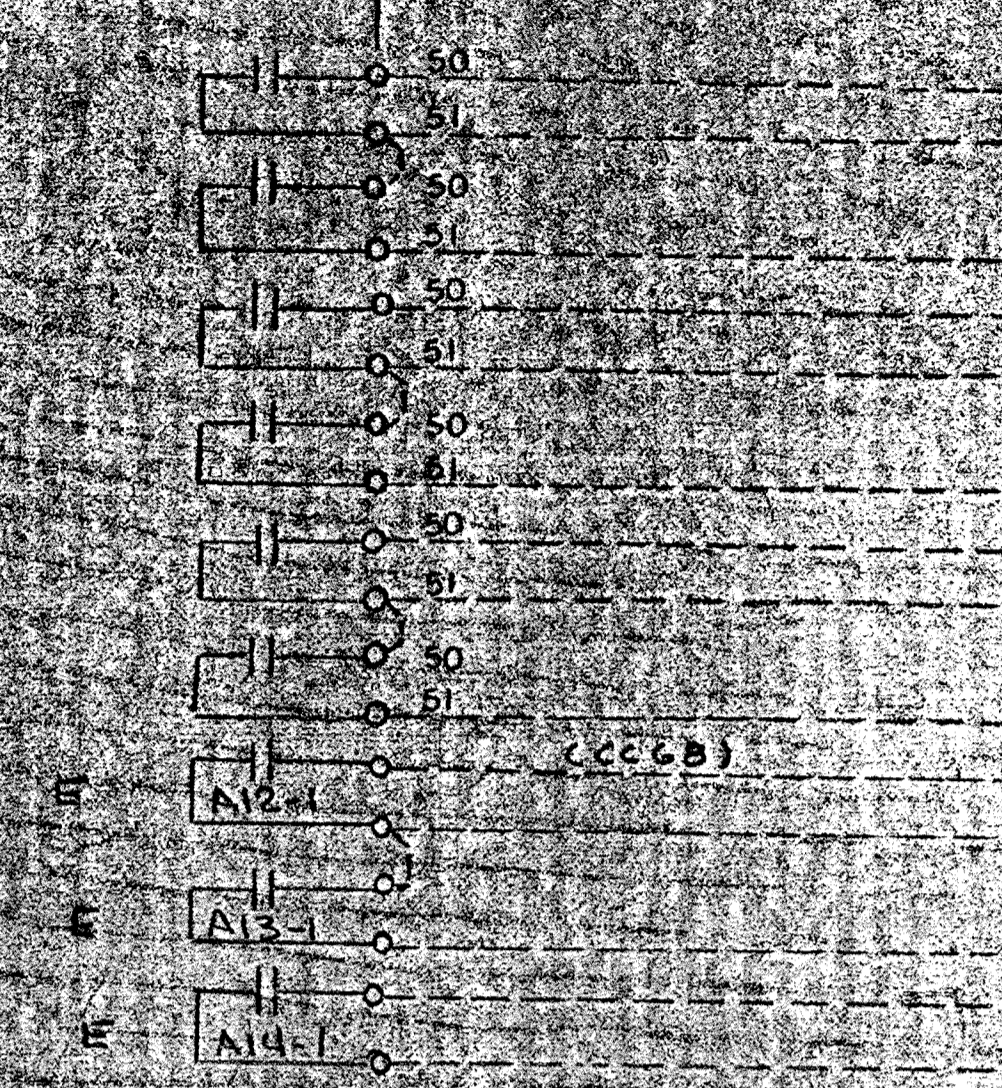
CABINET NO. HLB
CFA NO. 2
TERM BLOCK NO. 2
CARD TYPE P11D21

B
B

LEGEND
 FIELD WIRING (NOT BY HONEYWELL)
 WIRING (BY HONEYWELL)
 BACK OF PANEL TERMINAL
 PNEUMATIC CONNECTION
 DEVICES (NOT BY HONEYWELL)
 20 PSIG. AIR SUPPLY

DATE: 7/20/82
 DRAFTER: LTT STEVE SMITH
 CHK: [Signature]
 ENGR: [Signature]
 SCALE: 1/4"
 HONEYWELL INC. VALLEY FORGE, PA.
 SAVAGE WASTEWATER TREATMENT PLANT
 HOWARD COUNTY, MARYLAND
 ADDITION NO. 4 CONTRACT 505-S
 06D 28342 PIU 6

CONT FROM SH 2
MCC-CC-2



TERM	TAG	NAME
1		S.W. PUMP NO. 4
2		SIGNAL COMMON
3		SEWAGE PUMP NO. 3
4		SEWAGE PUMP NO. 4
5		SIGNAL COMMON
6		S.W. PUMP NO. 3
7		S.W. PUMP NO. 2
8		SIGNAL COMMON
9		
10		DA TO AB VOLTAGE MONITOR, SERVICE #2
11		SIGNAL COMMON
12		DB TO AC VOLTAGE MONITOR, SERVICE #2
13		DA TO DC VOLTAGE MONITOR, SERVICE #2
14		SIGNAL COMMON
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

NEW (C)
CABINET NO. HL 10
CFA NO. 1
TERM BLOCK
CARD TYPE PKID21

PART OF
BASE SOS-5

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊕ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

NEW SHEET

REV	DATE	DESCRIPTION	CHK	APPD
F	7/1/82	AS INSTALLED		CE
E	8/2/82	ENGR. CHG		CE
D	8/2/82	ENGR. CHG		CE
C	8/2/82	ENGR. CHG		CE

HONEYWELL INC.
VALLEY FORGE, PA.

SAVAGE WASTEWATER TREATMENT PLANT
MUNICIPALITY OF WINDY HOLLOW
ADDITIONAL CONTRACT SOS-5

SCALE: 9/60-28340-PTU-B 5 of 5

ITEM NO.	TAG NO.	LOCATION	FIGURE NO.	P. T. INPUT	R.T. OUTPUT	C.T. RATIO	C.T. OUTPUT AMPS	CALIBRATION	PIU NO.
3	E/IT-PS1-1	PRIMARY SUBSTATION PS-1 1500 KVA XFMR NO.1	2	13,200-2400Y/1385V	69 VAC	100/1	0-5	4-20 MA= 5500 KW	8
4	E/IT-PS1-2	PRIMARY SUBSTATION PS-1 1500 KVA XFMR NO.2	2	13,200-2400Y/1385V	69 VAC	100/1	0-5	4-20 MA= 5500 KW	8
5	E/IT-PS2-1	PRIMARY SUBSTATION PS-2 2500 KVA XFMR NO.1	2	13,200-480Y/277V	120 VAC	800/1	0-5	4-20 MA= 44000 KW	3
6	E/IT-PS2-2	PRIMARY SUBSTATION PS-2 2500 KVA XFMR NO.2	2	13,200-480Y/277V	120 VAC	800/1	0-5	4-20 MA= 44000 KW	3
7	E/IT-PS3-1	PRIMARY SUBSTATION PS-3 1000 KVA XFMR NO.1	2	13,200-480Y/277V	120 VAC	300/1	0-5	4-20 MA= 16,600 KW	6
8	E/IT-PS3-2	PRIMARY SUBSTATION PS-3 1000 KVA XFMR NO.2	2	13,200-480Y/277V	120 VAC	300/1	0-5	4-20 MA= 16,600 KW	6
9	E/IT-PS4-1	PRIMARY SUBSTATION PS-4 2500 KVA XFMR NO.1	2	13,200-480Y/277V	120 VAC	800/1	0-5	4-20 MA= 44,000 KW	2
10	E/IT-PS4-2	PRIMARY SUBSTATION PS-4 2500 KVA XFMR NO.2	2	13,200-480Y/277V	120 VAC	800/1	0-5	4-20 MA= 44,000 KW	2
11	E/IT-SS1-1	SECONDARY SUBSTATION SS-1 500 KVA XFMR NO.1	2	2400-480/277V	69 VAC	120/1	0-5	4-20 MA= 1200 KW	8
12	E/IT-SS1-2	SECONDARY SUBSTATION SS-1 500 KVA XFMR NO.2	2	2400-480/277V	69 VAC	120/1	0-5	4-20 MA= 1200 KW	8
13	E/IT-CC2-1	MOTOR CONTROL CENTER-CC2 FEEDER NO.1	2	480V	480 VAC	120/1	0-5	4-20 MA= 240 KW	8
14	E/IT-CC2-2	MOTOR CONTROL CENTER-CC2 FEEDER NO.2	2	480V	480 VAC	120/1	0-5	4-20 MA= 240 KW	8
15	E/IT-CC3-1	MOTOR CONTROL CENTER-CC3 FEEDER NO.1	6	2400V	120 VAC	80/1	0-5	4-20 MA= 240 KW	8
16	E/IT-CC3-2	MOTOR CONTROL CENTER-CC3 FEEDER NO.2	6	2400V	120 VAC	80/1	0-5	4-20 MA= 240 KW	8
17	E/IT-CC4-1	MOTOR CONTROL CENTER-CC4 FEEDER NO.1	2	480V	120 VAC	120/1	0-5	4-20 MA= 240 KW	8
18	E/IT-CC4-2	MOTOR CONTROL CENTER-CC4 FEEDER NO.2	2	480V	120 VAC	120/1	0-5	4-20 MA= 240 KW	8
19	E/IT-CC5-1	MOTOR CONTROL CENTER-CC5 FEEDER NO.1	2	480V	480 VAC	120/1	0-5	4-20 MA= 240 KW	6
20	E/IT-CC5-2	MOTOR CONTROL CENTER-CC5 FEEDER NO.2	2	480V	480 VAC	120/1	0-5	4-20 MA= 240 KW	6
21	E/IT-CC6-1	MOTOR CONTROL CENTER-CC6 FEEDER NO.1	2	480V	120 VAC	120/1	0-5	4-20 MA= 240 KW	6
22	E/IT-CC6-2	MOTOR CONTROL CENTER-CC6 FEEDER NO.2	2	480V	120 VAC	120/1	0-5	4-20 MA= 240 KW	6
23	E/IT-CC7A/B-1	MOTOR CONTROL CENTER-CC7A/B FEEDER NO.1	2	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	4
24	E/IT-CC7A/B-2	MOTOR CONTROL CENTER-CC7A/B FEEDER NO.2	2	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	4
25	E/IT-CC8-1	MOTOR CONTROL CENTER-CC8 FEEDER NO.1	2	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	2
26									
27	E/IT-CC9A/B-1	MOTOR CONTROL CENTER-CC9A/B FEEDER NO.1	2	480V	120 VAC	240/1	0-5	4-20 MA= 240 KW	3
28	E/IT-CC9A/B-2	MOTOR CONTROL CENTER-CC9A/B FEEDER NO.2	2	480V	120 VAC	240/1	0-5	4-20 MA= 240 KW	3
29	E/IT-CC11-1	MOTOR CONTROL CENTER-CC11 FEEDER NO.1	2	480V	69 VAC	240/1	0-5	4-20 MA= 480 KW	2
30	E/IT-CC11-2	MOTOR CONTROL CENTER-CC11 FEEDER NO.2	2	480V	69 VAC	240/1	0-5	4-20 MA= 480 KW	2
31	E/IT-EP-1	EFFLUENT PUMP NO.1	4	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	2
32	E/IT-EP-2	EFFLUENT PUMP NO.2	4	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	2
33	E/IT-EP-3	EFFLUENT PUMP NO.3	4	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	2
34	E/IT-EP-4	EFFLUENT PUMP NO.4	4	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	2
35	E/IT-EP-5	EFFLUENT PUMP NO.5	4	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	2
36	E/IT-CC12-1	MOTOR CONTROL CENTER-CC12 FEEDER NO.1	2	480V	69 VAC	240/1	0-5	4-20 MA= 480 KW	2
37	E/IT-CC12-2	MOTOR CONTROL CENTER-CC12 FEEDER NO.2	2	480V	69 VAC	240/1	0-5	4-20 MA= 480 KW	2
38	E/IT-CC13-1	MOTOR CONTROL CENTER-CC13 FEEDER NO.1	2	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	5
39	E/IT-CC13-2	MOTOR CONTROL CENTER-CC13 FEEDER NO.2	2	480V	69 VAC	120/1	0-5	4-20 MA= 240 KW	5
40	E/IT-CC17-1	MOTOR CONTROL CENTER-CC17 FEEDER NO.1	2	480V	120 VAC	120/1	0-5	4-20 MA= 240 KW	1
41	E/IT-SWBD-1-1	SWITCHBOARD SWBD-1 FEEDER NO.1	2	480V	120 VAC	120/1	0-5	4-20 MA= 240 KW	1
42	E/IT-SWBD-1-2	SWITCHBOARD SWBD-1 FEEDER NO.2	2	480V	120 VAC	120/1	0-5	4-20 MA= 240 KW	1
43									
44									
45	E/IT-B1	BLOWER NO.1, PC-1	4	480V	120 VAC	80/1	0-5	4-20 MA= 160 KW	3
46	E/IT-B2	BLOWER NO.2, PC-2	4	480V	120 VAC	80/1	0-5	4-20 MA= 160 KW	3
47	E/IT-B3	BLOWER NO.3, PC-1	4	480V	120 VAC	80/1	0-5	4-20 MA= 160 KW	3
48	E/IT-B4	BLOWER NO.4, PC-2	4	480V	120 VAC	80/1	0-5	4-20 MA= 160 KW	3
49	E/IT-B5	BLOWER NO.5, PC-1	4	480V	120 VAC	80/1	0-5	4-20 MA= 160 KW	3
50	E/IT-B6	BLOWER NO.6, PC-2	4	480V	120 VAC	80/1	0-5	4-20 MA= 160 KW	3

PCE-20-P3-E0-C5-XA-F60-W0-Z0-A1-G1

PCE-20-P3-E0-C5-XA-F60-W0-Z0-A1-G1

C.T. RATIOS WERE TAKEN FROM MCC MANUFACTURER'S PRINTS; ENGINEER IS VERIFYING ACTUAL RATIOS TO THE OWNER.

CALIBRATION DATA SHOWN IS AS LAST RECEIVED FROM ENGINEER; HOWEVER NEW DATA WILL BE FURNISHED TO THE OWNER BY THE ENGINEER THAT WILL SUPERCEDE THAT WHICH IS SHOWN.

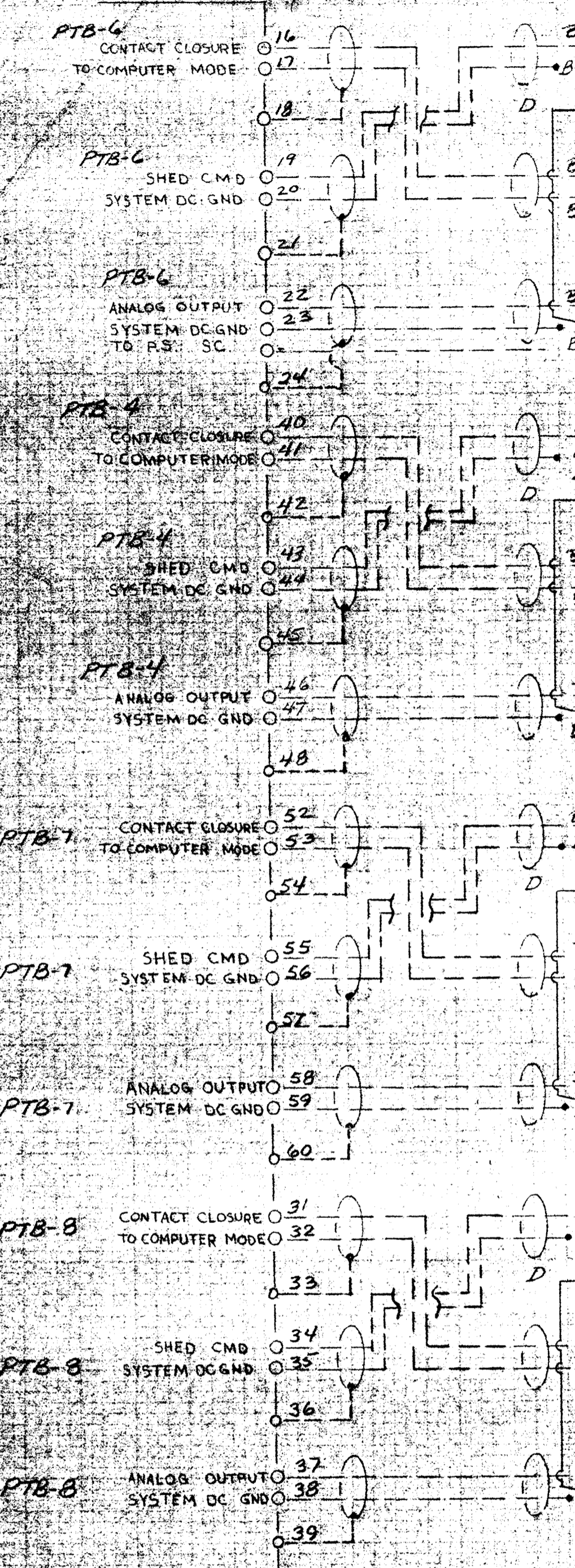
NOTE: TRANSDUCER PART NO. 15 PCE-30-P1-E0-C5-XA-F60-W0-Z0-A1-G1 UNLESS OTHERWISE NOTED (120VAC P.T. OUTPUT); PCE-30-P4-E0-C5-XA-F60-W0-Z0-A1-G1 FOR 69VAC P.T. OUTPUT.

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG AIR SUPPLY

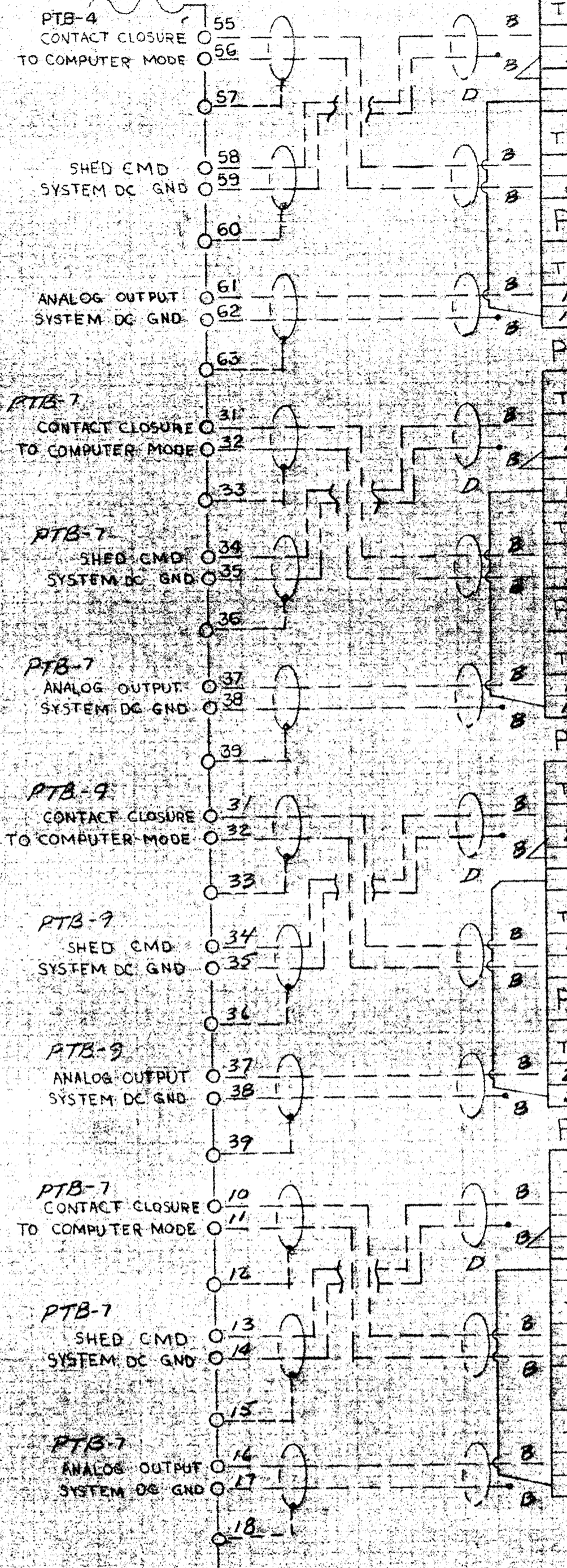
D	7/1/82	AS INSTALLED		
C	7/1/82	ENGINEER		
B	7/1/82	CONTRACTOR		
A	7/1/82	EMERGENCY		
REV	DATE	DESCRIPTION	CHK	APPD
HONEYWELL INC. VALLEY FORGE, PA.				
Savage Wastewater Treatment Plant				
HOWARD COUNTY, MARYLAND				
ADDITION NO. 4, CONTRACT 505-5				
SCALE	9/10 28342-PWR1			
SHT 2 OF 6				

INSTRUMENTATION PANEL



TERM	TAG	NAME	TB4	TB7	CAB NO.	HLG	CFA NO.	TERM BLOCK	CARD TYPE
3		LIME SLURRY TRANSFER PUMPS 3 F 4	3	2	2			4	PXOD11
2		LIME SLURRY TRANSFER PUMPS 3 F 4							
2		HLG-CFA2-TB7							
3		HLG-CFA2-TB7							
1		LIME SLURRY TRANSFER PUMPS 3 F 4			2			3	PXID21
2		" " " " " "							
14		LIME SLURRY TRANSFER PUMPS 3 F 4			1			5	PXOD11
15		SYSTEM DC GROUND							
15		SYSTEM DC GROUND							
6		LIME SLURRY TRANSFER PUMPS 4 F 5	6	5	2			4	PXOD11
5		LIME SLURRY TRANSFER PUMPS 4 F 5							
5		HLG-CFA2-TB7							
6		HLG-CFA2-TB7							
3		LIME SLURRY TRANSFER PUMPS 4 F 5			2			3	PXID21
2		" " " " " "							
17		LIME SLURRY TRANSFER PUMPS 4 F 5			1			5	PXOD11
18		SYSTEM DC GND							
9		PHOS. STRIPPER NO.1 INFLUENT SLUDGE	9	8	2			4	PXOD11
8		PHOS. STRIPPER NO.1 INFLUENT SLUDGE							
8		HLG-CFA2-TB7							
9		HLG-CFA2-TB7							
4		PHOS. STRIPPER NO.1 INFLUENT SLUDGE			2			3	PXID21
5		" " " " " "							
20		PHOS. STRIPPER NO.1 INFLUENT SLUDGE			1			5	PXOD11
21		SYSTEM DC GND							
12		PHOS. STRIPPER NO.2 INFLUENT SLUDGE	12	11	2			4	PXOD11
11		PHOS. STRIPPER NO.2 INFLUENT SLUDGE							
11		HLG-CFA2-TB7							
12		HLG-CFA2-TB7							
6		PHOS. STRIPPER NO.2 INFLUENT SLUDGE			2			3	PXID21
5		" " " " " "							
23		PHOS. STRIPPER NO.2 INFLUENT SLUDGE			1			5	PXOD11
24		SYSTEM DC GND							

INSTRUMENT PANEL



TERM	TAG	NAME	TB4	TB7	CAB NO.	HLG	CFA NO.	TERM BLOCK	CARD TYPE
15		TOTAL PHOS. STRIPPER INFLUENT SLUDGE	15	14	2			4	PXOD11
14		TOTAL PHOS. STRIPPER INFLUENT SLUDGE							
14		HLG-CFA2-TB7							
15		HLG-CFA2-TB7							
7		TOTAL PHOS. STRIPPER INFLUENT SLUDGE			2			3	PXID21
8		" " " " " "							
14		TOTAL PHOS. STRIPPER INFLUENT SLUDGE			1			4	PXOD11
15		SYSTEM DC GND							
18		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.1	18	17	2			4	PXOD11
17		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.1							
17		HLG-CFA2-TB7							
18		HLG-CFA2-TB7							
9		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.1			2			3	PXID21
8		" " " " " "							
17		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.1			1			4	PXOD11
18		SYSTEM DC GND							
21		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.2	21	20	2			4	PXOD11
20		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.2							
20		HLG-CFA2-TB7							
21		HLG-CFA2-TB7							
10		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.2			2			3	PXID21
11		" " " " " "							
20		WASTE CHEMICAL SLUDGE-REACTOR-CLARIFIER NO.2			1			4	PXOD11
21		SYSTEM DC GND							
24		PHOS. STRIPPED SLUDGE-STRIPPER NO.1	24	23	2			4	PXOD11
23		PHOS. STRIPPED SLUDGE-STRIPPER NO.1							
23		HLG-CFA2-TB7							
24		HLG-CFA2-TB7							
13		PHOS. STRIPPED SLUDGE-STRIPPER NO.1			2			3	PXID21
14		" " " " " "							
23		PHOS. STRIPPED SLUDGE-STRIPPER NO.1			1			5	PXOD11
24		SYSTEM DC GND							

LEGEND

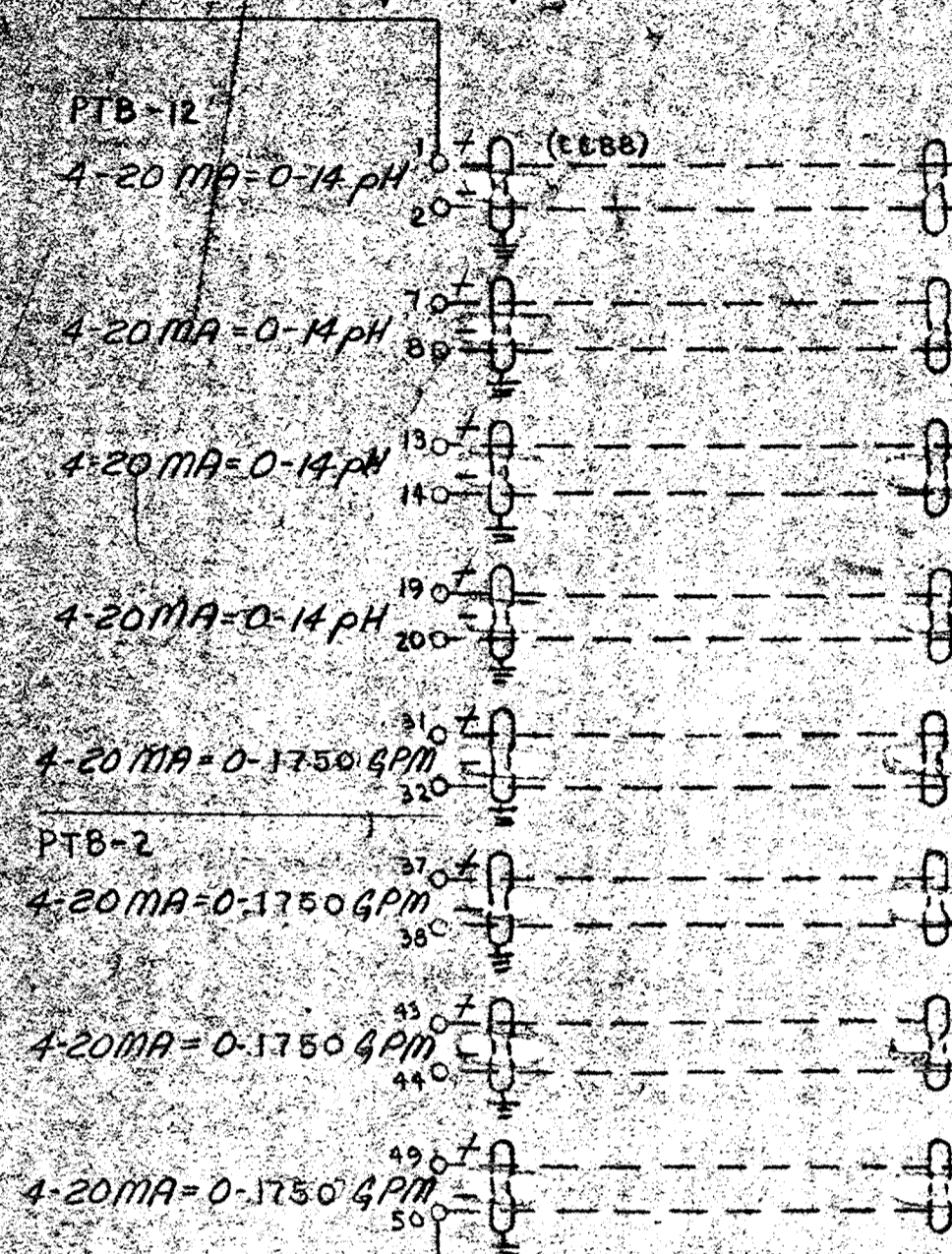
- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG AIR SUPPLY

E	7/16/82	AS INSTALLED	C/C
D	7/24/82	ENGR. CHG.	ACM
C	7/24/82	ENGR. CHG.	W/B
B	7/24/82	PHEN. CHGS.	GE
A	8/2/82	ENR. CHANG'S	SUB
1	7/28/79	ENR. UPDATE	JAMR
REV.	DATE	DESCRIPTION	CHK. APPD.

HONEYWELL INC.
VALLEY FORGE, PA.

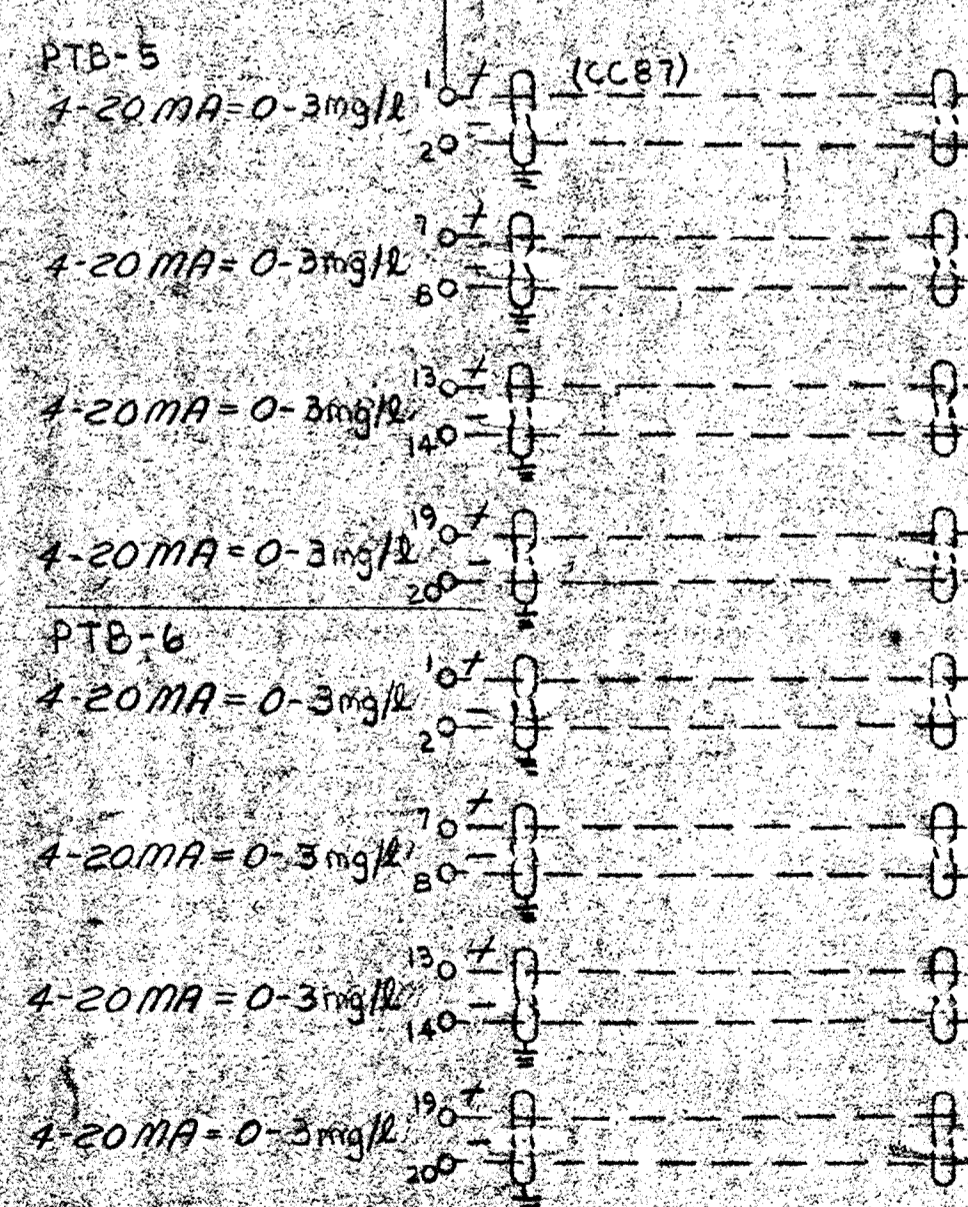
DRAFTER	DATE	PROJECT
WPL	8/25/80	SAVAGE WASTEWATER TREATMENT PLANT
CHK		
ENGR		HOWARD COUNTY, MARYLAND ADDITION NO. 4 CONTRACT 505-5
SCALE		DWG. 916-D-28342-PIU-5 SHEET 4 OF 5

INSTRUMENTATION PANEL
CONTROL BLDG NO. 1



TERM	TAG	NAME
1		
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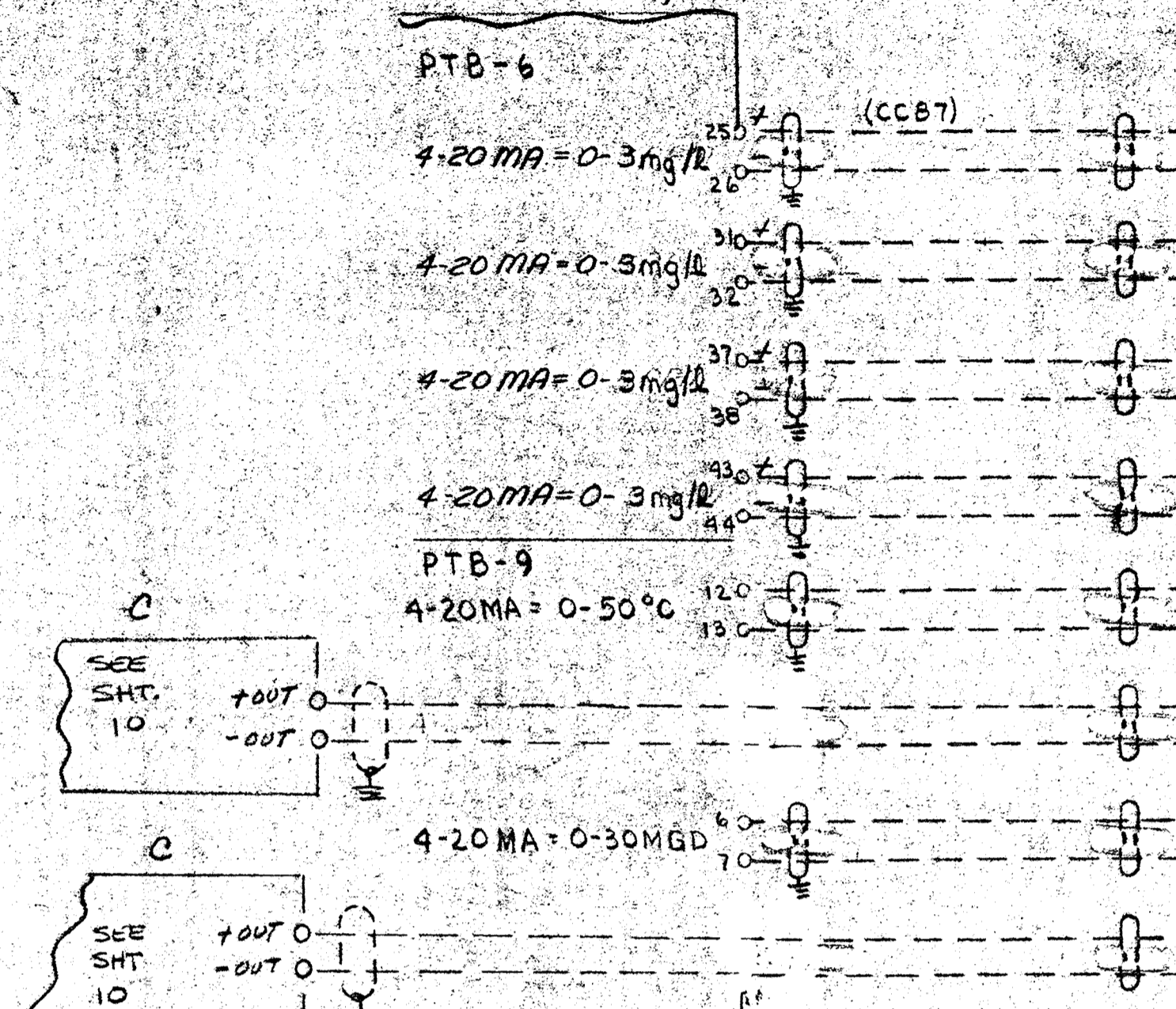
CABINET NO. 447
CFA NO. 1
TERM BLOCK NO. 1
CARD TYPE PXIA21



TERM	TAG	NAME
1		
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CABINET NO. 447
CFA NO. 1
TERM BLOCK NO. 2
CARD TYPE PXIA21

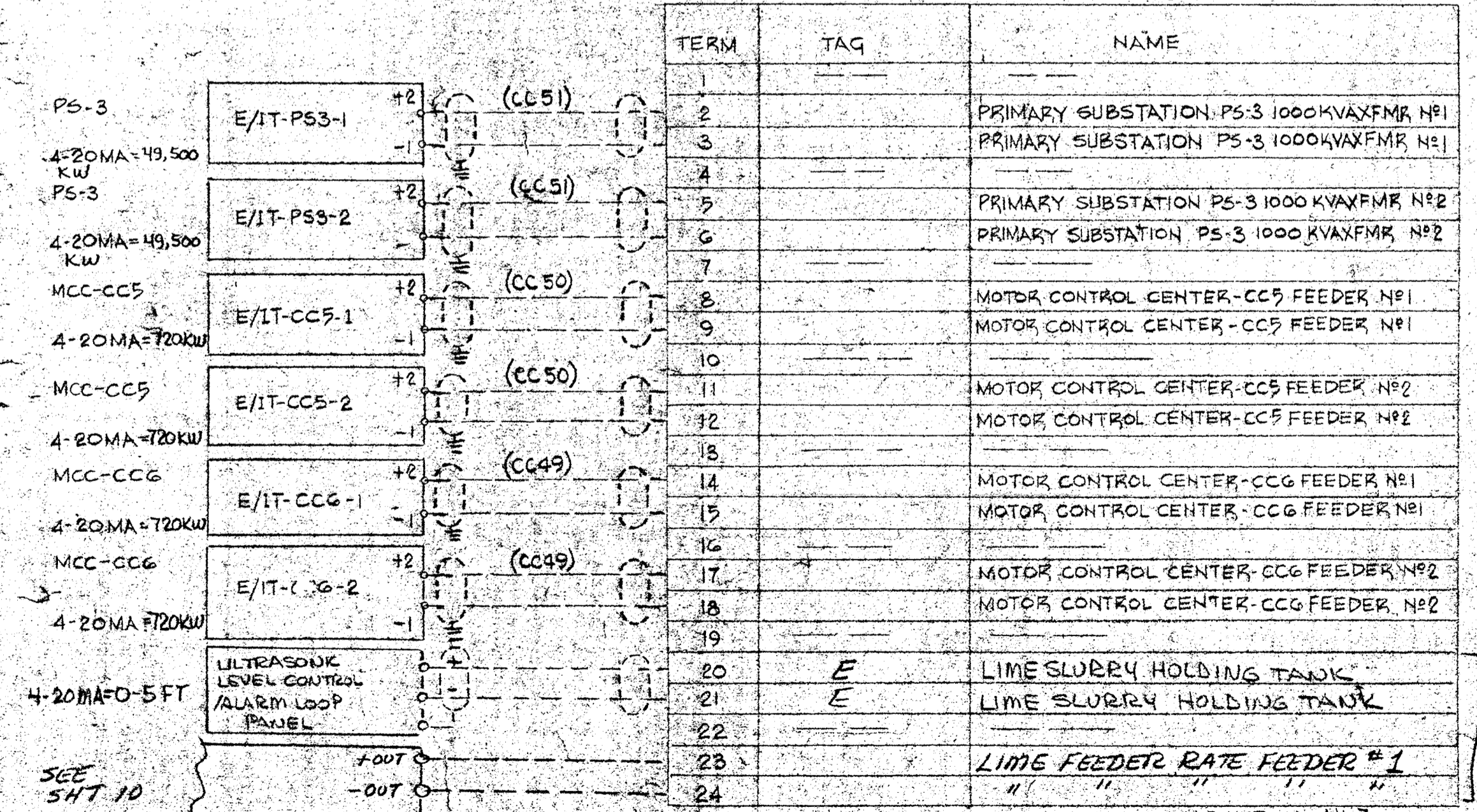
INSTRUMENTATION PANEL
CONTROL BLDG NO. 1



TERM	TAG	NAME
1		
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CABINET NO. 447
CFA NO. 1
TERM BLOCK NO. 3
CARD TYPE PXIA21

ANALOG INPUT UNIT



TERM	TAG	NAME
1		
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CABINET NO. 447
CFA NO. 1
TERM BLOCK NO. 4
CARD TYPE PXIA21

REV	DATE	DESCRIPTION	CHK	APPD
D	7/16/82	AS INSTALLED		
B	8/27/81	ENG. CHGS		
C	11/20	ENG. CHGS		
A	8/27	ENG. CHGS		
1	8/28/81	ENGR. UPDATE		

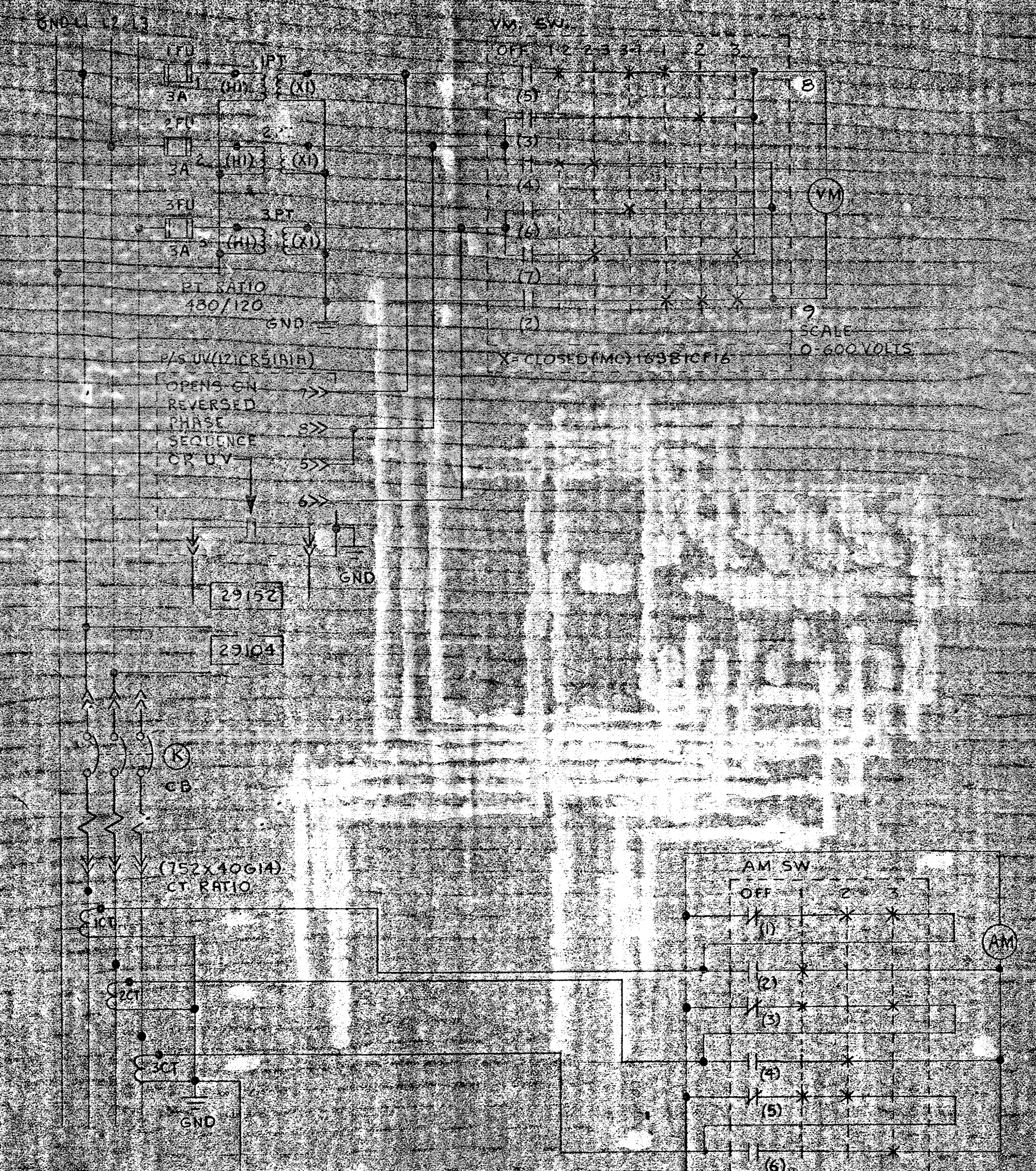
LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- DEVICES (NOT BY HONEYWELL)
- 20 PSIG. AIR SUPPLY

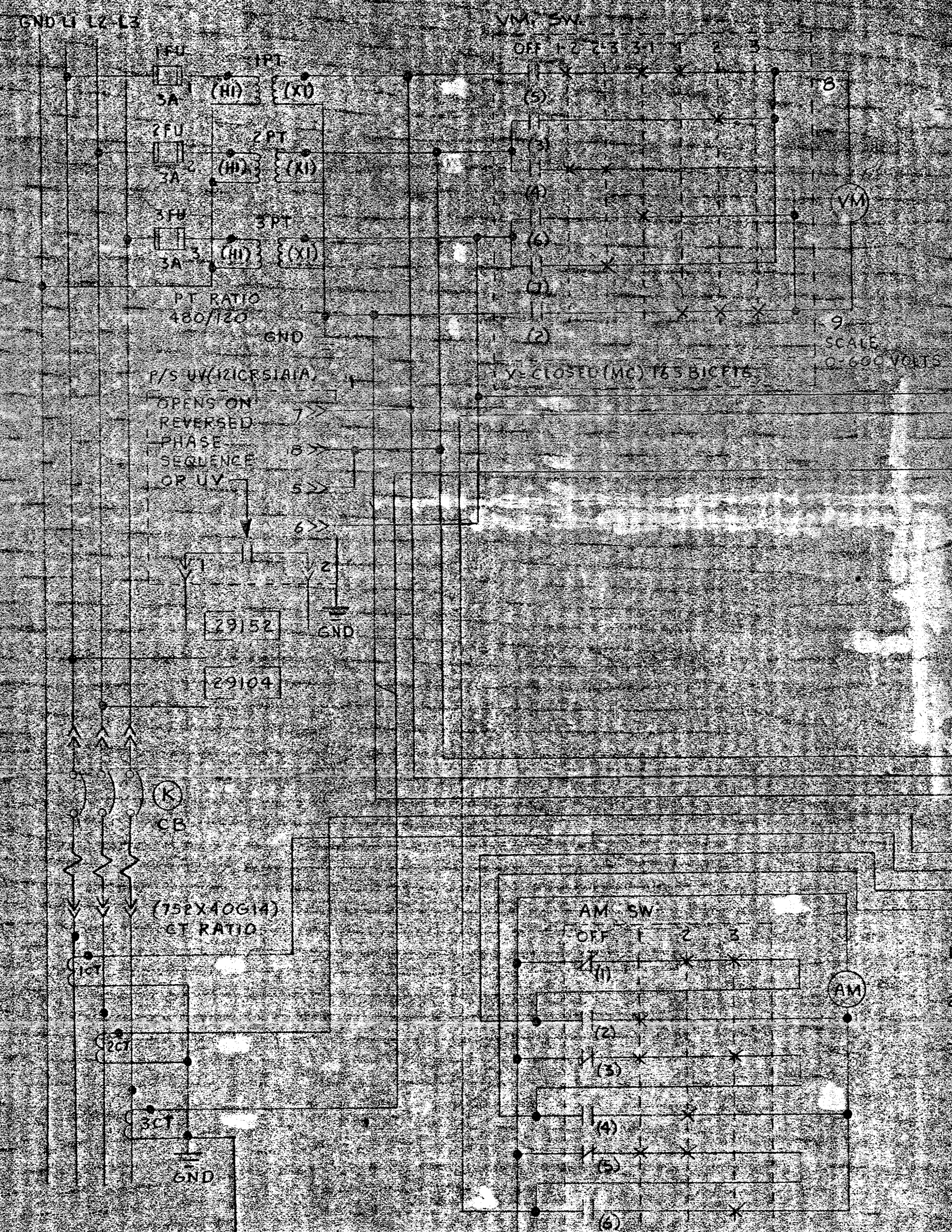
DATE: 9/28/82
DRAFTER: LTB
STEVE SMITH
CHK: [Signature]
ENGR: [Signature]
SCALE: 1/2"

SAVAGE WASTEWATER TREATMENT PLANT
ADDITONAL WORK CONTRACT # 85-3
HONEYWELL INC. VALLEY FORGE, PA.

HWG NO. 916D-28342 PID-C

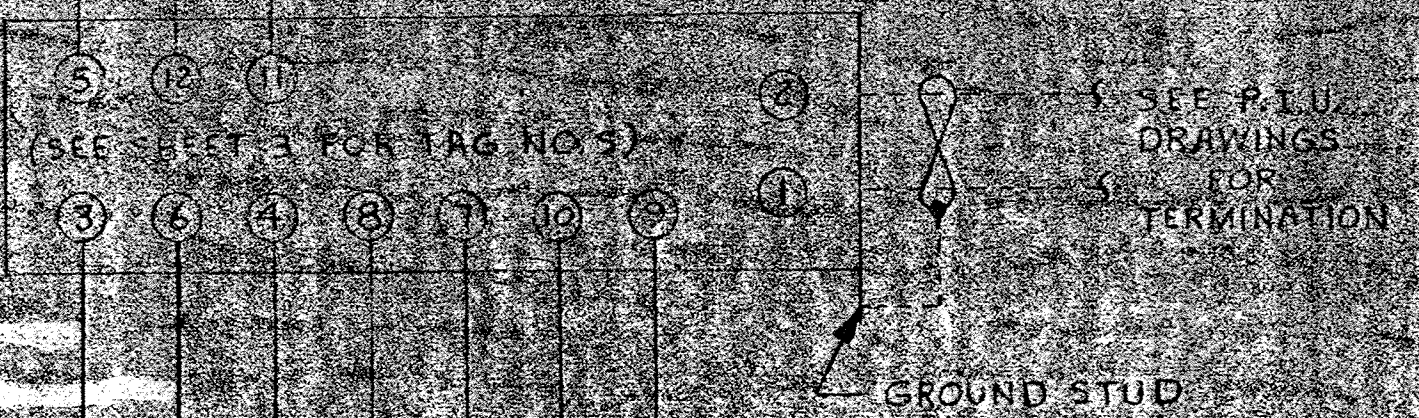


TYPICAL VOLTAGE CURRENT POWER FDR
CIRCUIT - PRESENT STATUS
FIGURE 5



TYPICAL VOLTAGE CURRENT POWER FDR
CIRCUIT - MODIFIED TO SHOW ADDITION
OF AN ELECTRONIC WATT TRANSDUCER
FIGURE 6

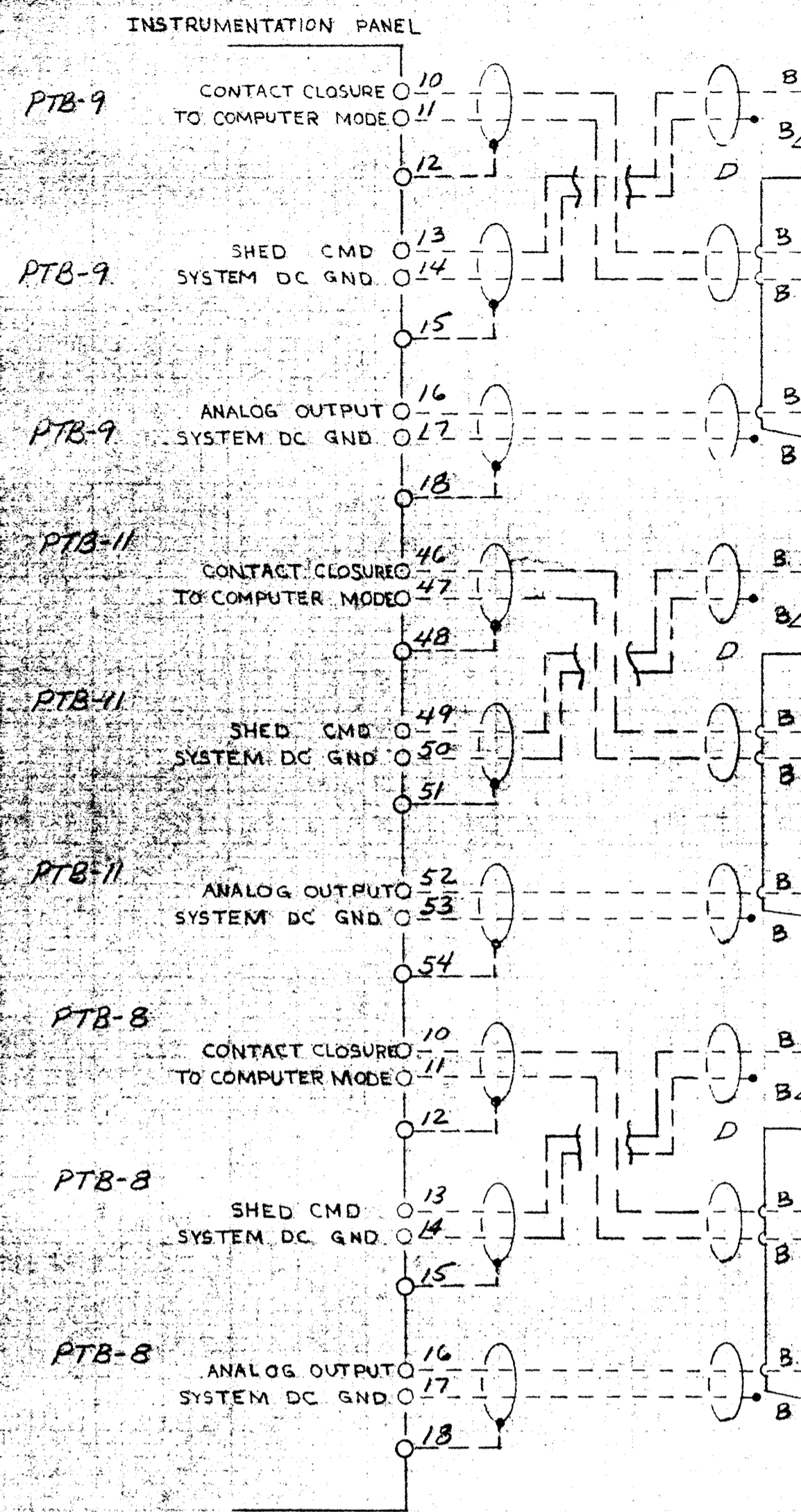
1. ALL POWER MONITORING CIRCUITS ARE AS SHOWN EXCEPT THOSE STRICTLY FOR MOTORS (SEE SHEET 2)
2. SEE SHEET 3 FOR TAG NUMBERS.
3. WATT TRANSDUCERS ARE TO BE MOUNTED INSIDE PANEL NEAR AMMETER OR VOLTMETER



REV	DATE	DESCRIPTION	CHK	APP
0	7/16/88	AS INSTALLED		CE
1	8/1/88	ADD CHES. RESINS FOR RESORB		SR
4	8/23/88	REV. 4/88		SR

HONEYWELL INC.
VALLEY FORGE, PA.

CHARTER	DATE	DESCRIPTION
SAVAGE	1/23/78	SAVAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY	1/23/78	HOWARD COUNTY MARY AND ADDITION NO. 4 CONTRACT 505-S
916D-28342-PWR-1	1/23/78	916D-28342-PWR-1



PIU-5

TERM	TAG	NAME	TB5	TB6
3		PHOS. STRIPPED SLUDGE - STRIPPER NO. 2	3+2	2+3
2		PHOS. STRIPPED SLUDGE - STRIPPER NO. 2		
2		HLG-CFA2-G		
3		HLG-CFA2-G		

CAB NO. HLG CFA NO. 2
 TERM. BLOCK 5
 CARD TYPE PXD11

TERM	TAG	NAME
13		PHOS. STRIPPED SLUDGE - STRIPPER NO. 2
14		" " " " " "

CAB NO. HLG CFA NO. 2
 TERM. BLOCK 3
 CARD TYPE PXD21

PIU-5

TERM	TAG	NAME
14		PHOS. STRIPPED SLUDGE - STRIPPER NO. 2
15		SYSTEM DC GROUND

CAB NO. HLG CFA NO. 1
 TERM. BLOCK 6
 CARD TYPE PXD11

PIU-5

TERM	TAG	NAME	TB5	TB6
6		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 1	6+5	5+6
5		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 1		
5		HLG-CFA2-G		
6		HLG-CFA2-G		

CAB NO. HLG CFA NO. 2
 TERM. BLOCK 5
 CARD TYPE PXD11

TERM	TAG	NAME
15		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 1
14		" " " " " "

CAB NO. HLG CFA NO. 2
 TERM. BLOCK 3
 CARD TYPE PXD21

PIU-5

TERM	TAG	NAME
17		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 1
18		SYSTEM DC GROUND

CAB NO. HLG CFA NO. 1
 TERM. BLOCK 6
 CARD TYPE PXD11

PIU-5

TERM	TAG	NAME	TB5	TB6
9		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 2	9+8	8+9
8		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 2		
8		HLG-CFA2-G		
9		HLG-CFA2-G		

CAB NO. HLG CFA NO. 2
 TERM. BLOCK 5
 CARD TYPE PXD11

TERM	TAG	NAME
16		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 2
17		" " " " " "

CAB NO. HLG CFA NO. 2
 TERM. BLOCK 3
 CARD TYPE PXD21

PIU-5

TERM	TAG	NAME
20		STRIPPER ELUTRIANT SUPPLY - STRIPPER NO. 2
21		SYSTEM DC GROUND

CAB NO. HLG CFA NO. 1
 TERM. BLOCK 6
 CARD TYPE PXD11

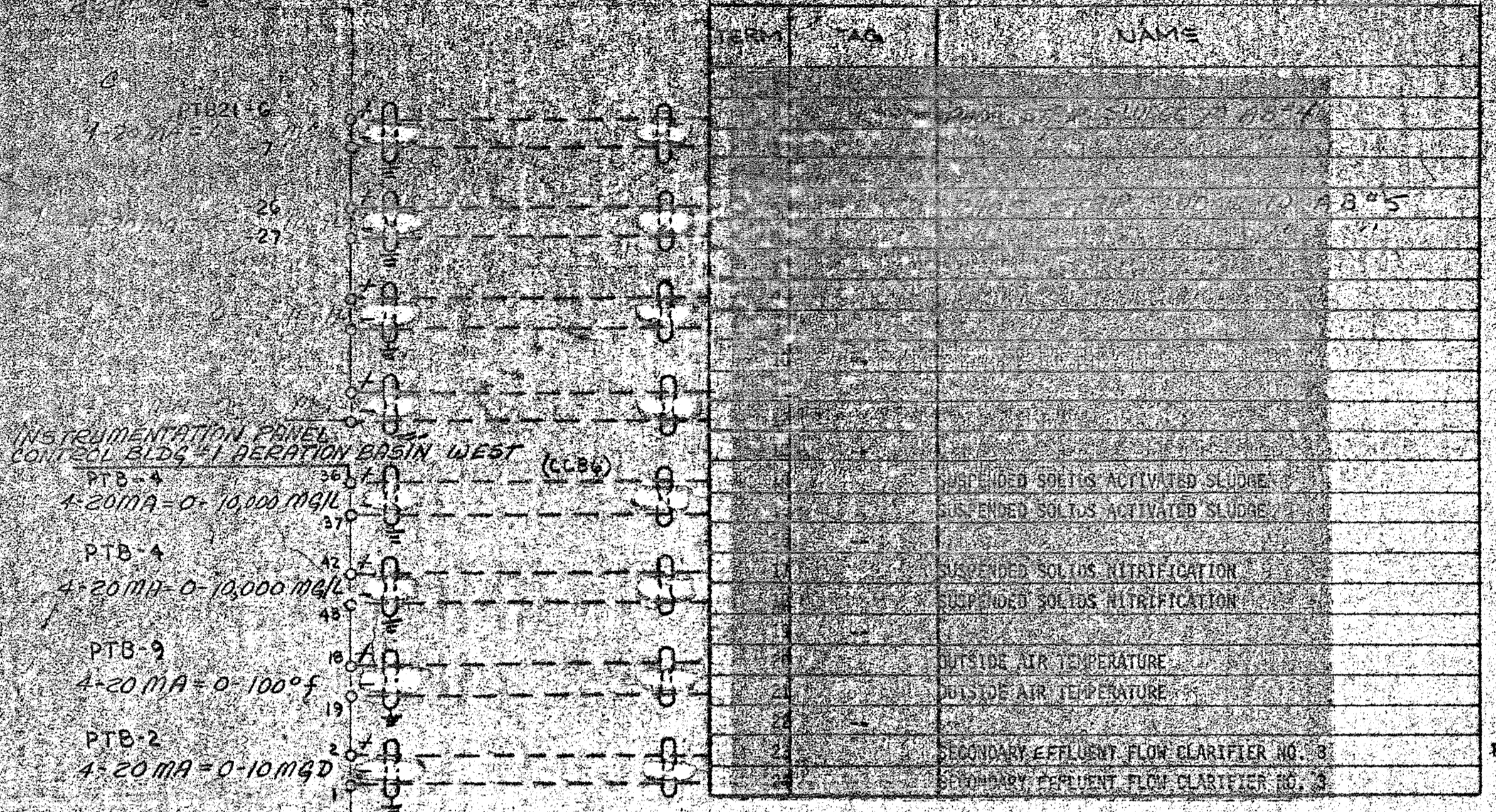
LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊕ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

REV	DATE	DESCRIPTION	CHK	APPD.
E	7/16/83	AS INSTALLED		CE
D	5/16/81	ENGR. CHG.	ACM	CE
C	4/2/81	ENGR. CHG.	ACM	CE
B	3/28/81	PANEL CHG.		CE
A	3/28/81	ENGR. CHG.	SUB	CE

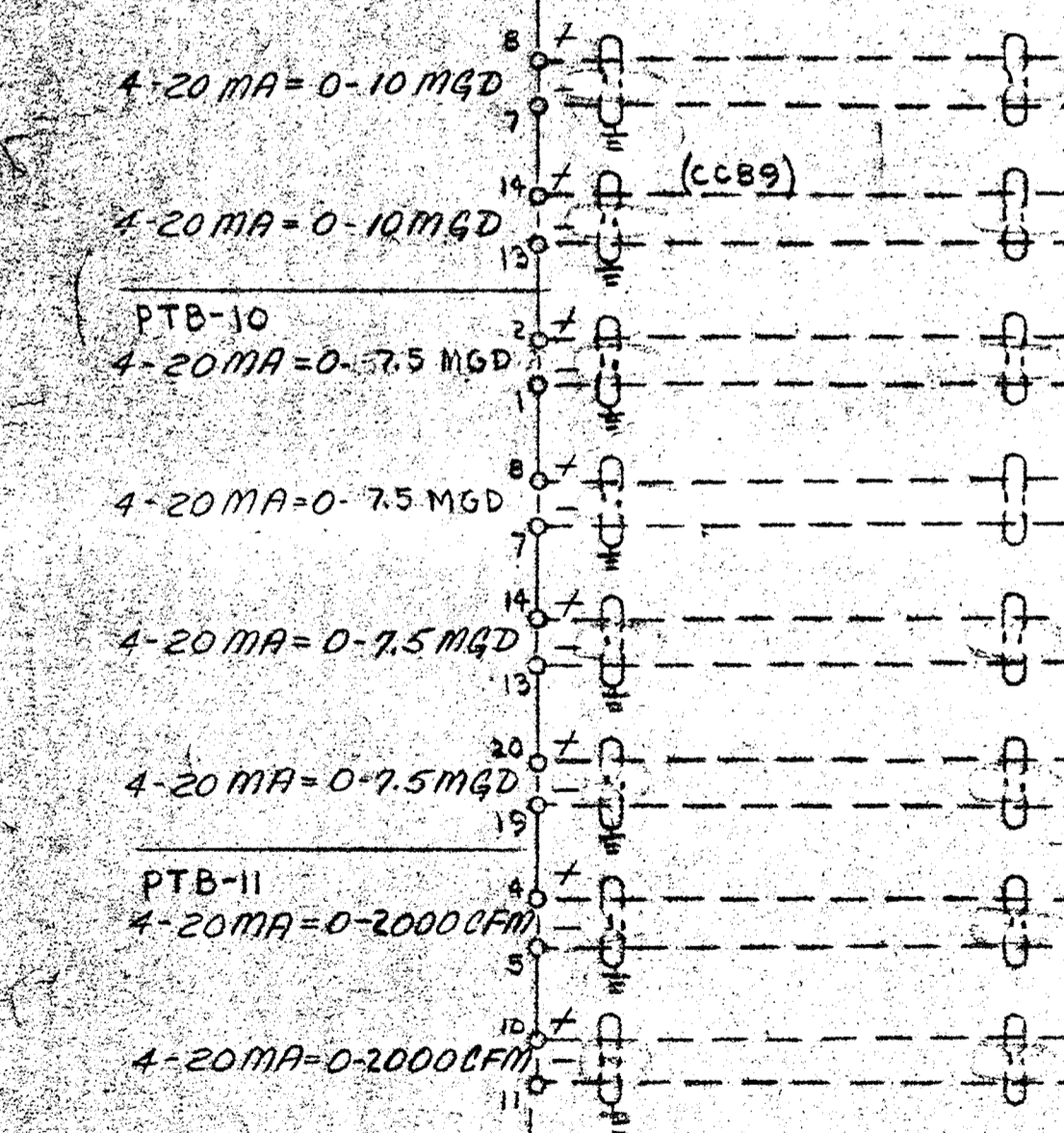
HONEYWELL INC.
 VALLEY FORGE, PA.

DRAFTER	DATE	DWG. NO.	SHT. 5 OF 5
		916D-28342-PIU-5	
CHK		SARGE WASTE WATER TREATMENT PLANT	
ENGR.		HOWARD COUNTY, MD. PLANT	
SCALE		ADDITION NO. 4 CONTRACT 503-3	



TERM	TAG	NAME
1		
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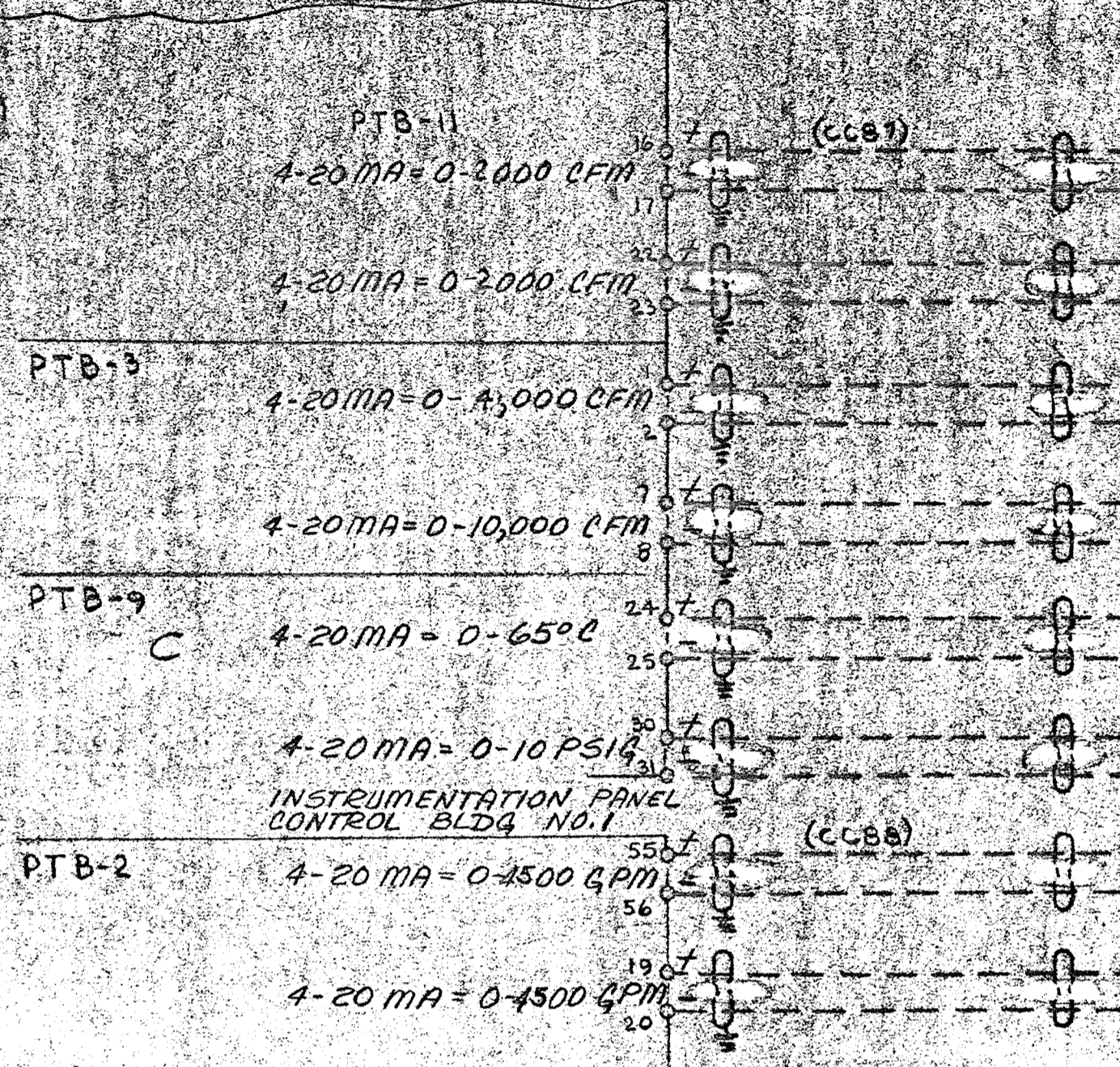
CABINET NO. HLT
 CFA NO. 1
 TERM BLOCK NO. 5
 CARD TYPE PXIAZI



TERM	TAG	NAME
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

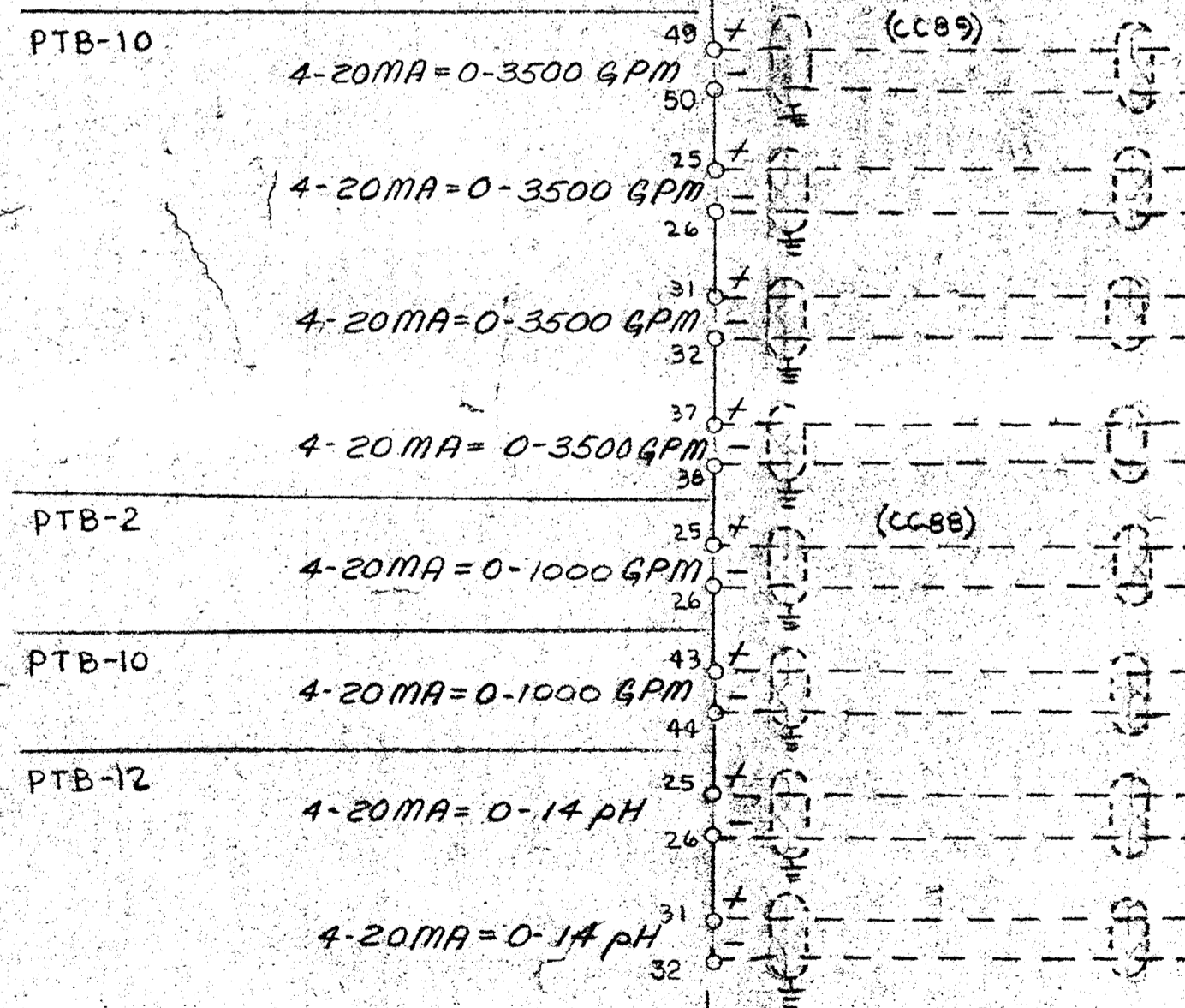
CABINET NO. HLT
 CFA NO. 1
 TERM BLOCK NO. 6
 CARD TYPE PXIAZI

INSTRUMENTATION PANEL CONTROL BLDG. NO. 1



TERM	TAG	NAME
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

CABINET NO. HLT
 CFA NO. 1
 TERM BLOCK NO. 7
 CARD TYPE PXIAZI



TERM	TAG	NAME
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

CABINET NO. HLT
 CFA NO. 1
 TERM BLOCK NO. 8
 CARD TYPE PXIAZI

REV.	DATE	DESCRIPTION	CHK.	APPD.
D	7/16/82	AS INSTALLED		EE
C	8/2/82	ENG. CHG'S		EE
B	1/20/80	ENG. CHG'S		EE
A	8/2/82	ENG. CHG'S		EE
1	8/28/79	ENG. UPDATE		JMR

LEGEND
 FIELD WIRING (NOT BY HONEYWELL)
 WIRING (BY HONEYWELL)
 BACK OF PANEL TERMINAL
 PNEUMATIC CONNECTION
 DEVICES (NOT BY HONEYWELL)
 20 PSIG. AIR SUPPLY

DRAFTER LTP STEVE SMITH
 DATE 10/2/82
 CHK. [Signature]
 ENGR. [Signature]
 SCALE [Signature]
 HONEYWELL INC. VALLEY FORGE, PA.
 SAVAGE WASTEWATER TREATMENT PLANT
 HOWARD COUNTY, MARYLAND
 ADDITION 1984 CONTRACT 505-S
 DWG NO. 916D-28342 PIU-6

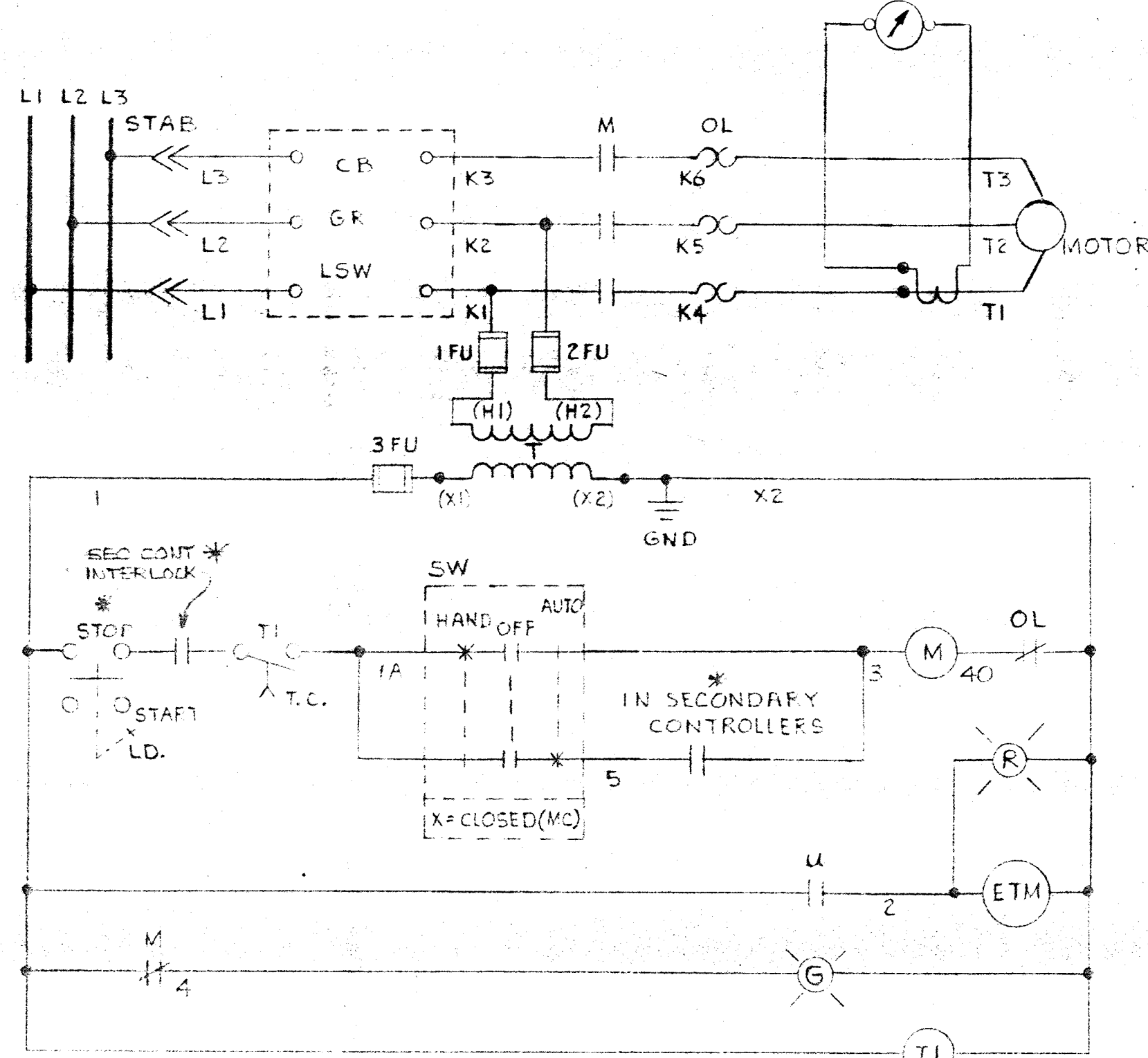


FIGURE 7
TYPICAL MOTOR FDR CIRCUIT
PRETAINING TO AN INDIVIDUAL
MOTOR STARTER - PRESENT STATUS

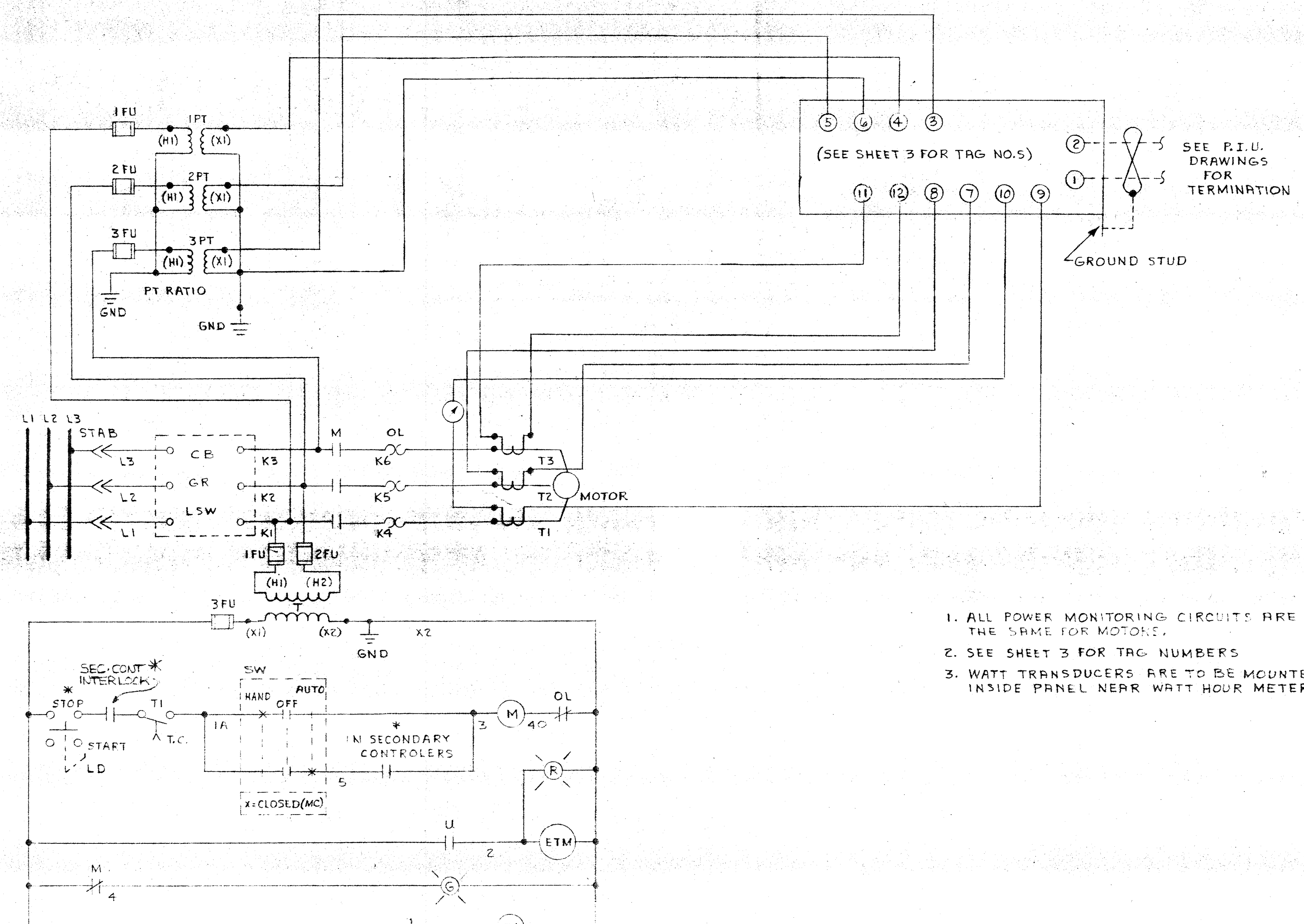


FIGURE 8
TYPICAL MOTOR FDR CIRCUIT PRETAINING TO AN
INDIVIDUAL STARTER MODIFIED TO SHOW THE
ADDITION OF AN ELECTRONIC WATT TRANSDUCER

1. ALL POWER MONITORING CIRCUITS ARE THE SAME FOR MOTORS.
2. SEE SHEET 3 FOR TAG NUMBERS
3. WATT TRANSDUCERS ARE TO BE MOUNTED INSIDE PANEL NEAR WATT HOUR METER

REV	DATE	DESCRIPTION	CHK	APP
C	7/16/82	AS INSTALLED		CE
B	10/25/81	CON. CHGS - RESOL FOR REVISED SUB 2		CE
A	8/27/81	ENG CHGS		CE

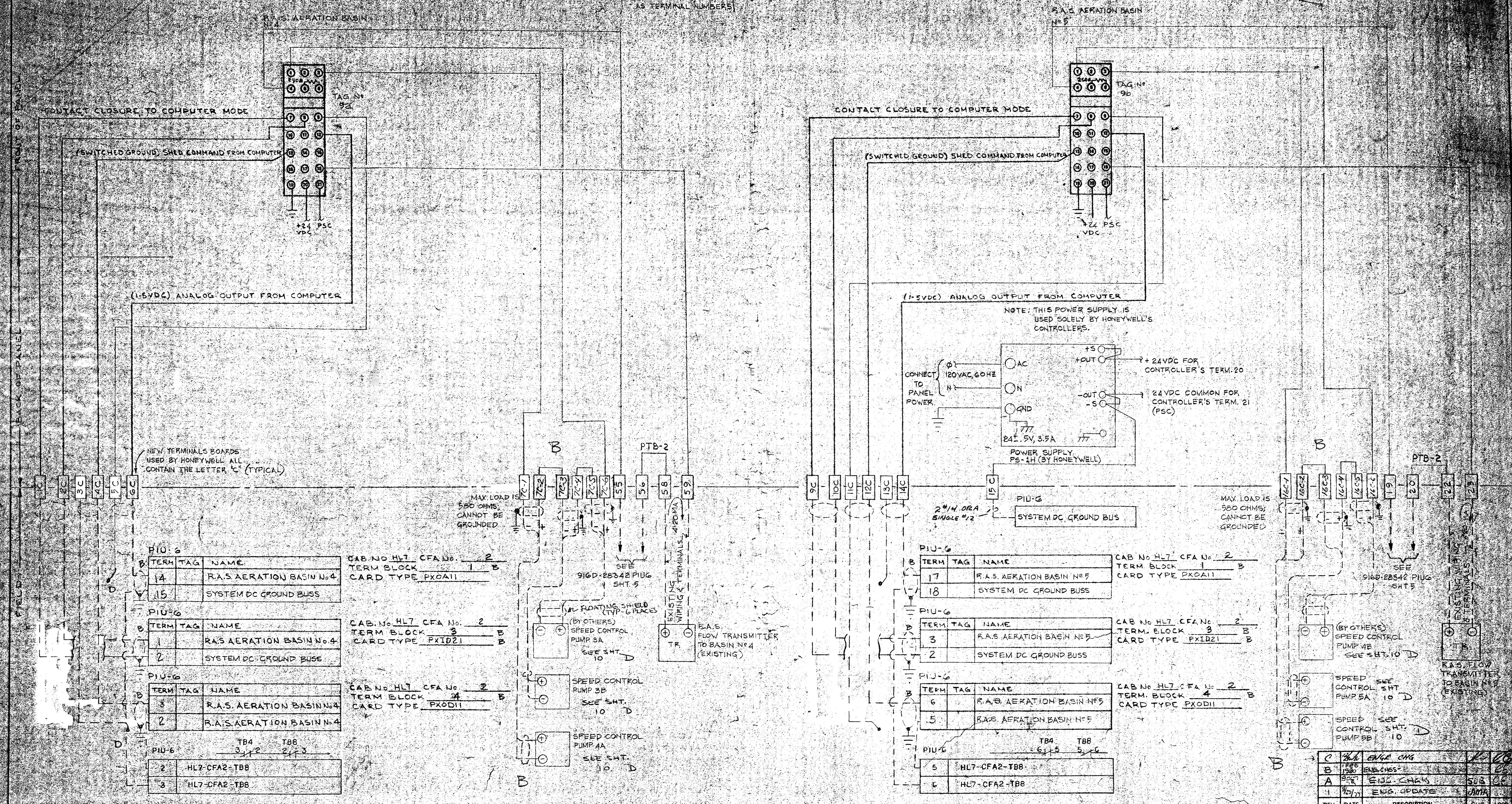
HONEYWELL INC.
VALLEY FORGE, PA.

SAWAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY, MARYLAND
ADDITION NO.4 CONTRACT 505-S

DRAFTER	RRL	DATE	4/17/82
CHK	AMR	DATE	5/1/82
ENGR	R. Entel	DATE	7/79
SCALE			

DWG NO. 916D-28342-PWR-1 SHEET 5 OF 6

PANEL WIRING NOTE:
WIRES GOING TO TERMINALS 18, 20, & 21 OF THE CONTROLLERS SHALL BE 14 AWG. ALL OTHER WIRES ARE 16 AWG. ROUTE ALL WIRES AWAY FROM ANY AC WIRING. WIRE NUMBERS ARE THE SAME AS TERMINAL NUMBERS.



PIU-6

TERM	TAG	NAME
14		R.A.S. AERATION BASIN No. 4
15		SYSTEM DC GROUND BUSS

CAB No. HL7 CFA No. 2
TERM. BLOCK 1 B
CARD TYPE PXOAI1

PIU-6

TERM	TAG	NAME
1		R.A.S. AERATION BASIN No. 4
2		SYSTEM DC GROUND BUSS

CAB No. HL7 CFA No. 2
TERM. BLOCK 3 B
CARD TYPE PXID21

PIU-6

TERM	TAG	NAME
3		R.A.S. AERATION BASIN No. 4
2		R.A.S. AERATION BASIN No. 4

CAB No. HL7 CFA No. 2
TERM. BLOCK 4 B
CARD TYPE PXOD11

PIU-6

TERM	TAG	NAME
2	HL7-CFA2-TB8	
3	HL7-CFA2-TB8	

PIU-6

TERM	TAG	NAME
17		R.A.S. AERATION BASIN No. 5
18		SYSTEM DC GROUND BUSS

CAB No. HL7 CFA No. 2
TERM. BLOCK 1 B
CARD TYPE PXOAI1

PIU-6

TERM	TAG	NAME
3		R.A.S. AERATION BASIN No. 5
2		SYSTEM DC GROUND BUSS

CAB No. HL7 CFA No. 2
TERM. BLOCK 3 B
CARD TYPE PXID21

PIU-6

TERM	TAG	NAME
6		R.A.S. AERATION BASIN No. 5
5		R.A.S. AERATION BASIN No. 5

CAB No. HL7 CFA No. 2
TERM. BLOCK 4 B
CARD TYPE PXOD11

PIU-6

TERM	TAG	NAME
5	HL7-CFA2-TB8	
6	HL7-CFA2-TB8	

REV.	DATE	DESCRIPTION	CHK	APP
C	7/16/82	ENGR. CHG		
B	7/28/82	ENGR. CHG		
A	8/27/82	ENGR. CHG	SUG	
1	9/21/82	ENGR. UPDATE		

HONEYWELL INC.
VALLEY FORGE, PA.

LEGEND

--- FIELD WIRING (NOT BY HONEYWELL)
--- WIRING (BY HONEYWELL)
□ BACK OF PANEL TERMINAL
○ PNEUMATIC CONNECTION

⊕ DEVICES (NOT BY HONEYWELL)
◀ 20 PSIG AIR SUPPLY

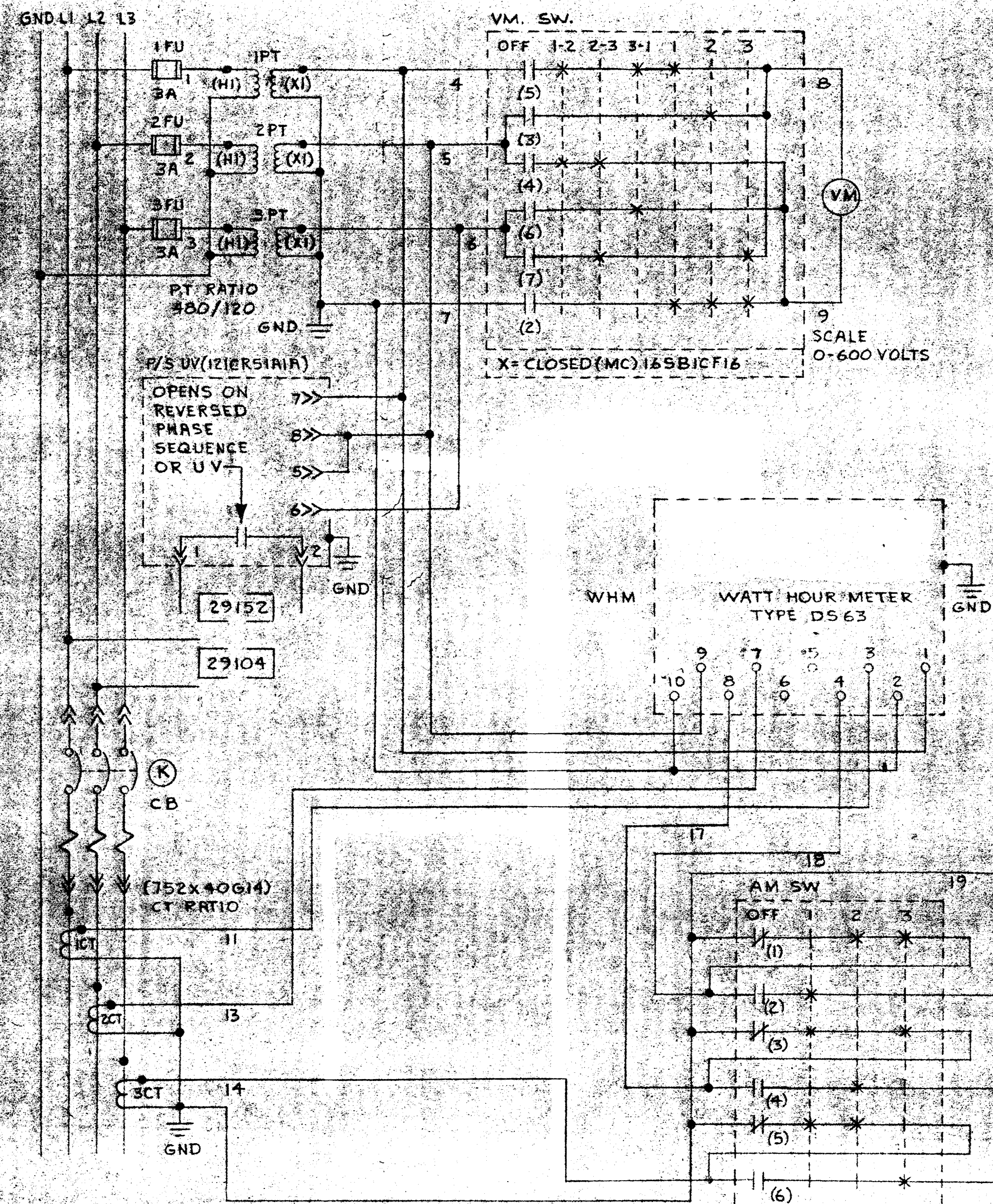
E 7/16/82 AS INSTALLED
D 7/28/82 ENGR. CHG

DATE 3/8/75
DRAFTER LTF
CHK [Signature]
ENGR. [Signature]
SCALE 1/8"

DATE 3/8/75
DRAFTER LTF
CHK [Signature]
ENGR. [Signature]
SCALE 1/8"

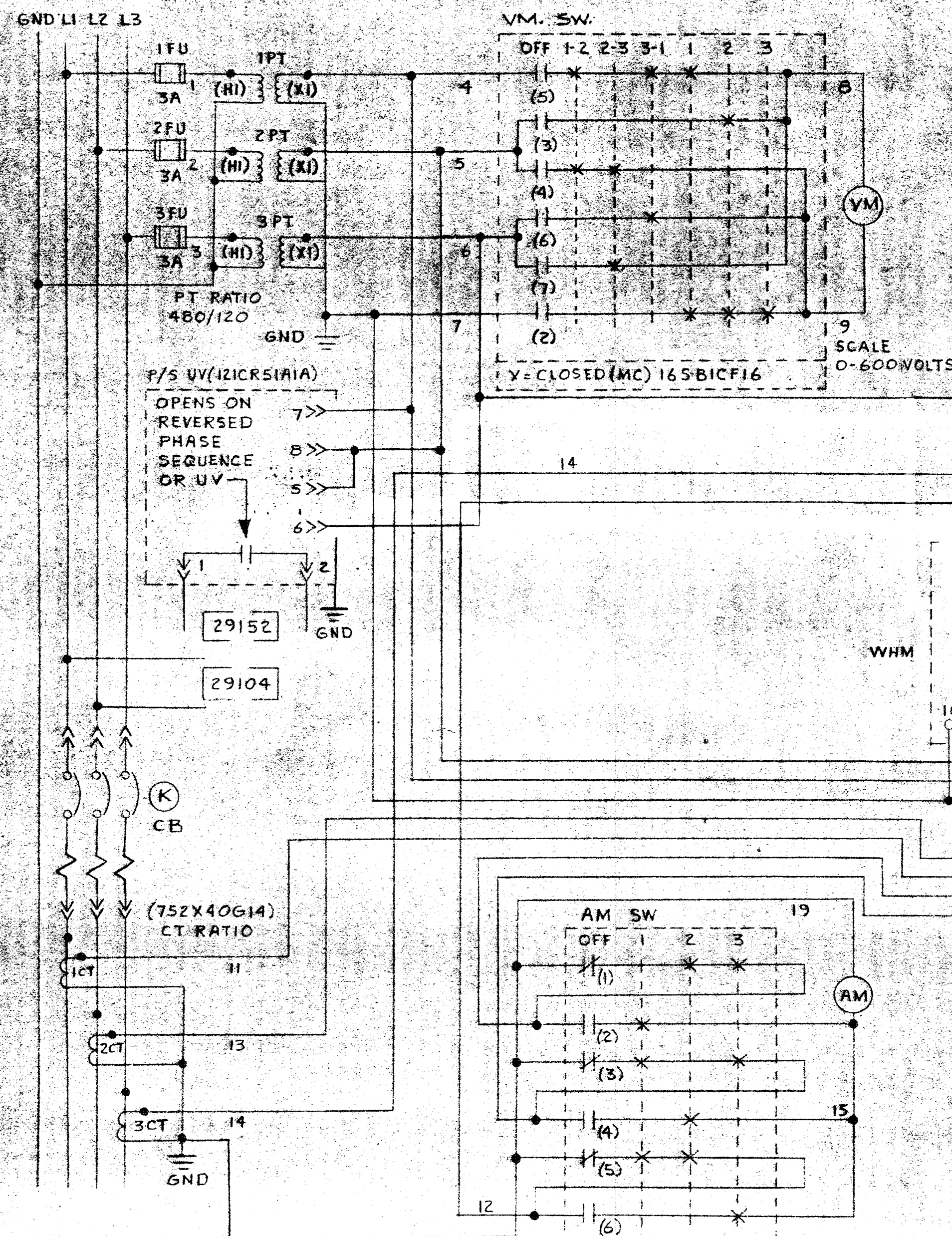
DWG. NO. 916D-28342-PIU

SAVAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY, MARYLAND
ADDITION No. 4 CONTRACT 503-5



TYPICAL VOLTAGE, CURRENT & WATT HOUR POWER FDR CIRCUIT - PRESENT STATUS, DS63

FIGURE 1



TYPICAL VOLTAGE CURRENT & WATT HOUR POWER FDR CIRCUIT - MODIFIED TO SHOW ADDITION OF AN ELECTRONIC WATT TRANSDUCER.

FIGURE 2

1. ALL POWER MONITORING CIRCUITS ARE AS SHOWN EXCEPT THOSE STRICTLY FOR MOTORS (SEE SHEET 2)
2. SEE SHT 3 FOR TAG NUMBERS. ITEM 3 THRU 12, 16, 17, 25, 27, 28, 40, 41, 42
3. WATT TRANSDUCERS ARE TO BE MOUNTED INSIDE PANEL NEAR WATT HOUR METER
4. ITEMS 27 & 28 ARE SHOWN DS64 BUT CONNECTED AS TYPE DS63

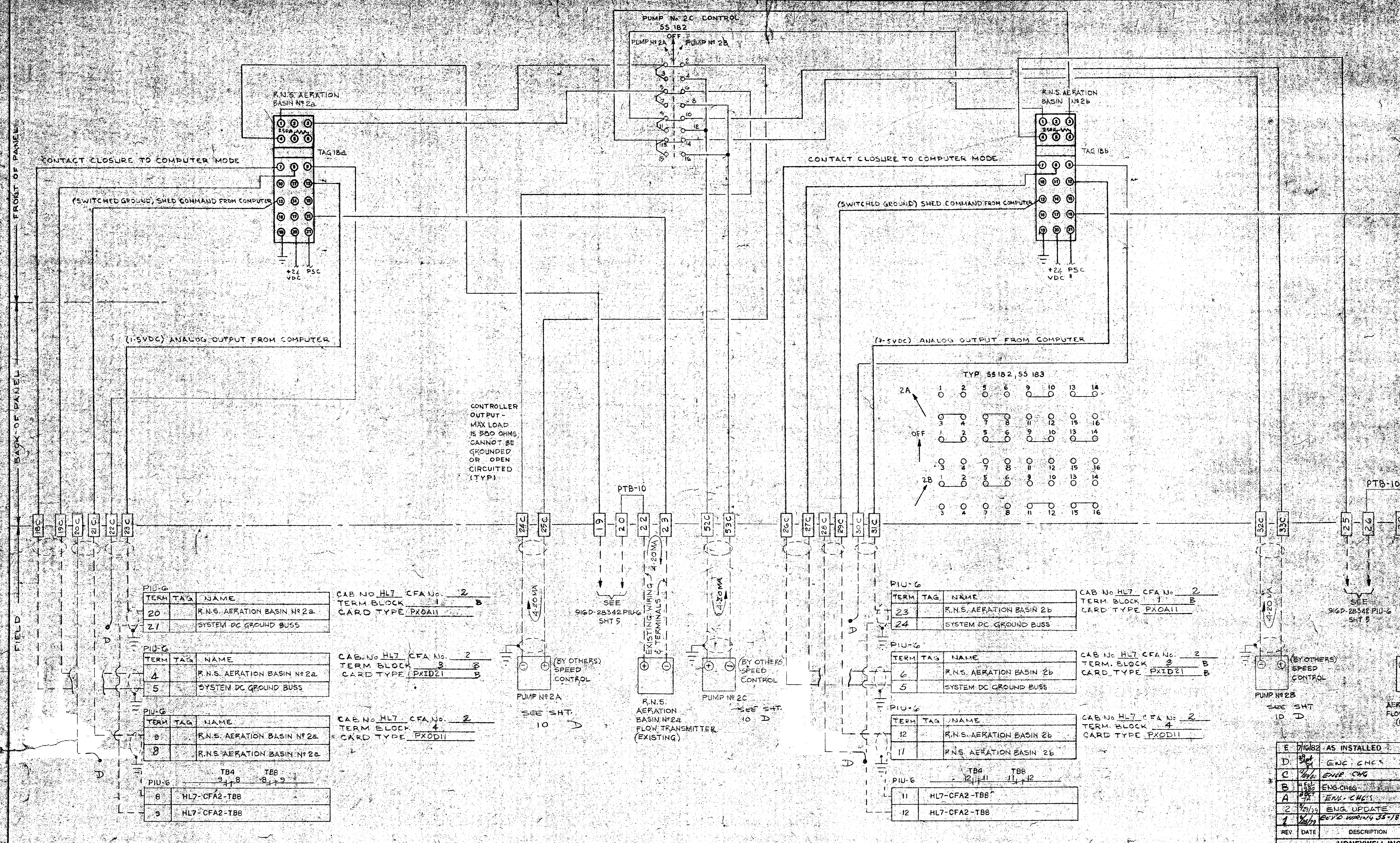
LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊗ DEVICES (NOT BY HONEYWELL)
- ▲ 20 PSIG. AIR SUPPLY

DRAWN	R L	DATE	3 APR 79
CHK	<i>[Signature]</i>		
ENGR	<i>[Signature]</i>		
SCALE	<i>[Signature]</i>		
Savage Wastewater Treatment Plant			
Howard County, Maryland			
Addition No. 4 Contract 505-S			
DWG. NO.	916D-28342-PWR-1	SHT.	6 OF 6

REV.	DATE	DESCRIPTION	CHK.	APPD.
0	7/16/82	AS INSTALLED		
1	2/1/83	REVISED		

SEE P.I.U. DRAWINGS FOR TERMINATION
GROUND STUD

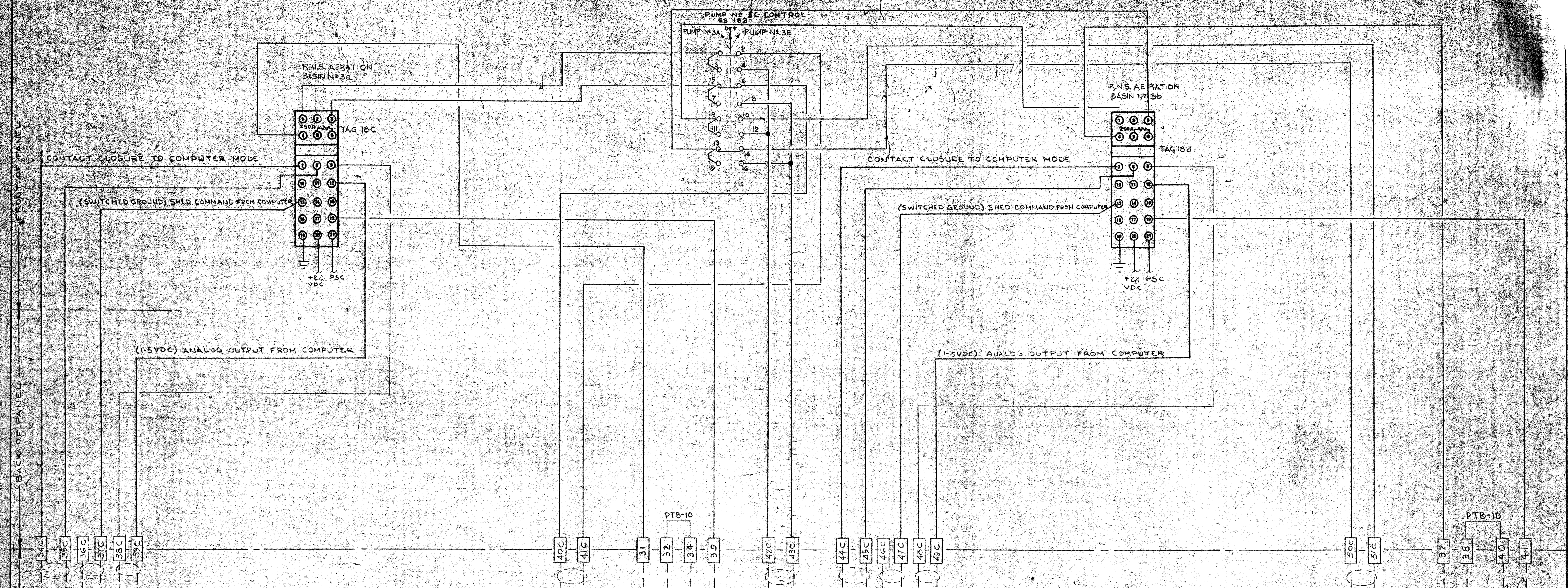


REV.	DATE	DESCRIPTION	CHK.	APPD.
E	7/16/82	AS INSTALLED		CE
D	3/8/81	ENG. CHG'S		CE
C	2/20/80	ENG. CHG		CE
B	1/15/80	ENG. CHG'S		CE
A	1/15/80	ENG. CHG'S	SOE	CE
2	2/19/79	ENG. UPDATE	AMR	
1	1/15/79	REV'D WIRING 35-182		

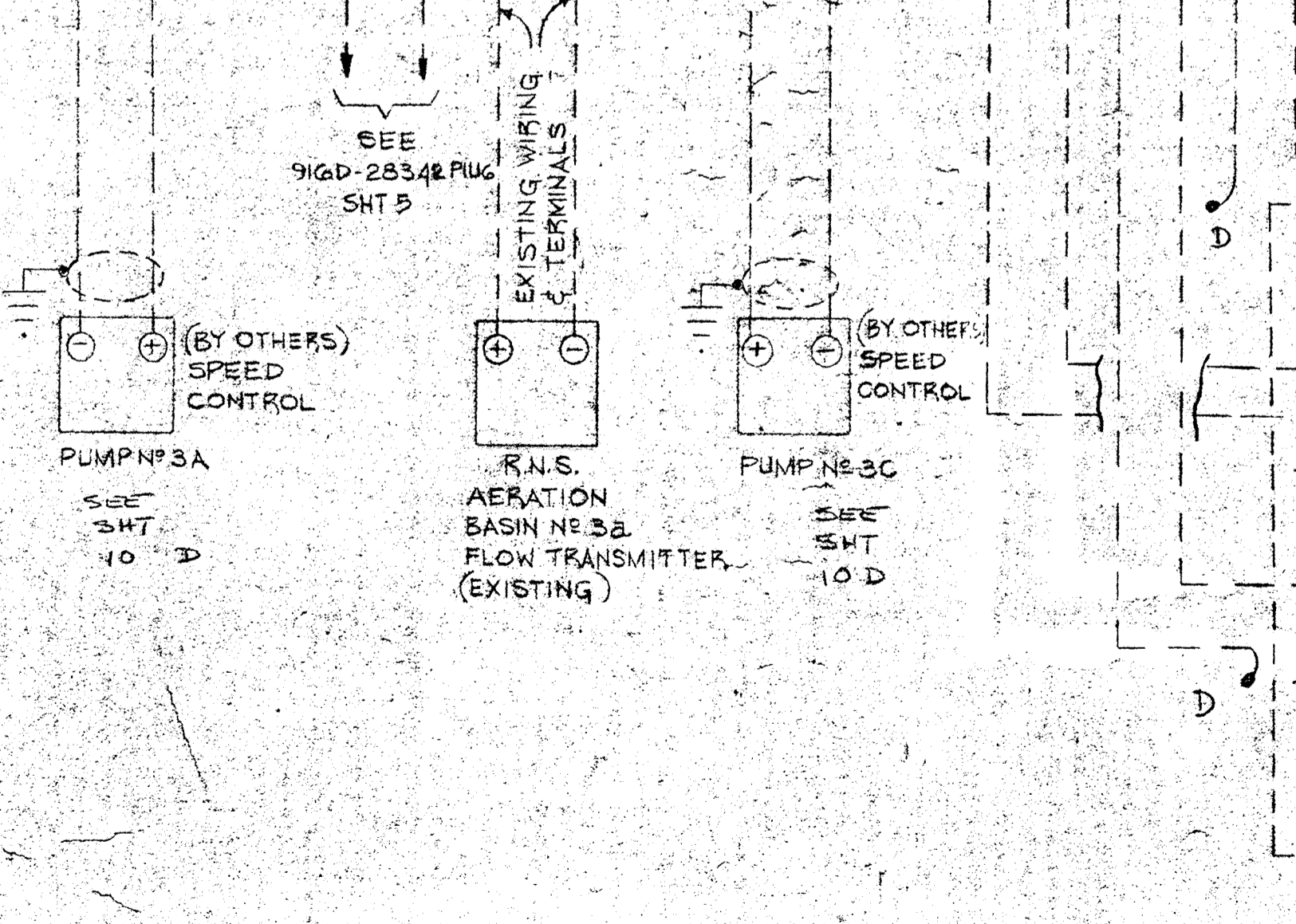
HONEYWELL INC. VALLEY FORGE, PA.	
DRAWN	DATE
CHK'D	DATE
ENGR.	DATE
SCALE	DATE

SAVAGE WASTEWATER TREATMENT PLANT
HOWARD COUNTY, MARYLAND
ADDITION No. 4 CONTRACT 505-B

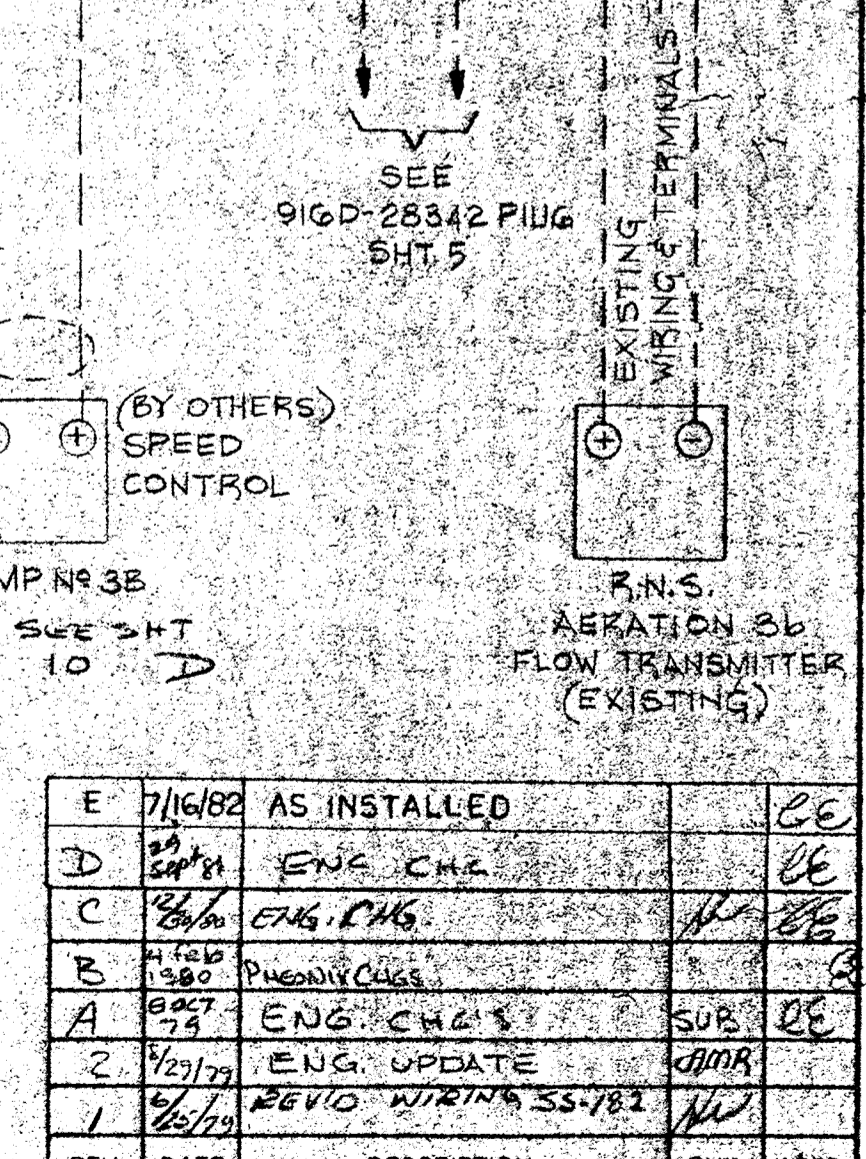
DWG. No. 916D-28342-PIU-6 SH 7 OF 8



TERM	TAG	NAME	CAB. NO.	HL7	CFA No.
14		R.N.S. AERATION BASIN No 3a	2		2
15		SYSTEM DC GROUND BUSS	2		2
7		R.N.S. AERATION BASIN No 3a	2	B	2
8		SYSTEM DC GROUND BUSS	2	B	2
15		R.N.S. AERATION BASIN No 3a	2		2
14		R.N.S. AERATION BASIN No 3a	2		2
14	HL7-CFA2-TB8				
15	HL7-CFA2-TB8				



TERM	TAG	NAME	CAB. NO.	HL7	CFA No.
17		R.N.S. AERATION BASIN 3b	2		2
18		SYSTEM DC GROUND BUSS	2		2
9		R.N.S. AERATION BASIN 3b	2	B	2
8		SYSTEM DC GROUND BUSS	2	B	2
18		R.N.S. AERATION BASIN 3b	2		2
17		R.N.S. AERATION BASIN 3b	2		2
17	HL7-CFA2-TB8				
18	HL7-CFA2-TB8				



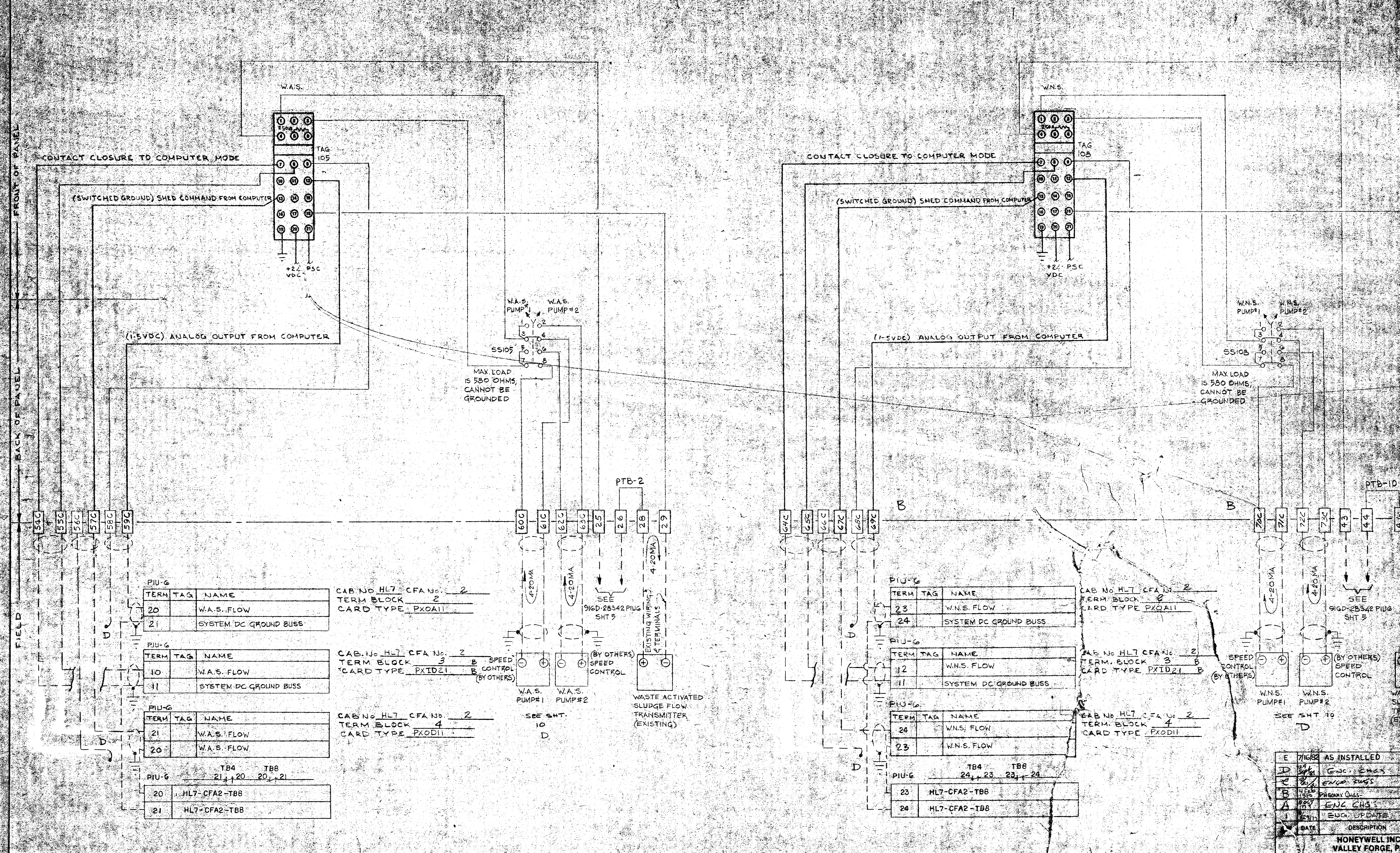
REV.	DATE	DESCRIPTION	CHK.	APPD.
E	7/16/82	AS INSTALLED		CC
D	5/24/81	ENG. CHG.		CC
C	2/26/80	ENG. CHG.		CC
B	11/20/79	PNEUMATIC CHG.		CC
A	6/27/79	ENG. CHG.		CC
2	4/29/79	ENG. UPDATE		CC
1	6/27/79	REVISED WIRING SS-781		CC

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- ⊙ DEVICES (NOT BY HONEYWELL)
- ◀ 20 PSIG. AIR SUPPLY

DRAFTER	DATE	DESCRIPTION
Liz	4/12/79	SAVAGE WASTEWATER TREATMENT PLANT
CHK	7/1/79	HOWARD COUNTY, MARYLAND ADDITION No. 4 CONTRACT 505-S
ENGR	8/27/79	
SCALE	7A	

DWG. NO. 916D/28342PIUG SH. 2 OF 10



LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING (BY HONEYWELL)
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- DEVICES (NOT BY HONEYWELL)
- 20 PSIG. AIR SUPPLY

E	7/16/82	AS INSTALLED	
D	8/1/82	ENG. CHGS	
C	8/1/82	ENG. CHGS	
B	8/1/82	PRELIM CHGS	
A	8/1/82	ENG. CHGS	
	8/1/82	ENG. UPDATE	
	DATE	DESCRIPTION	CHK APPD

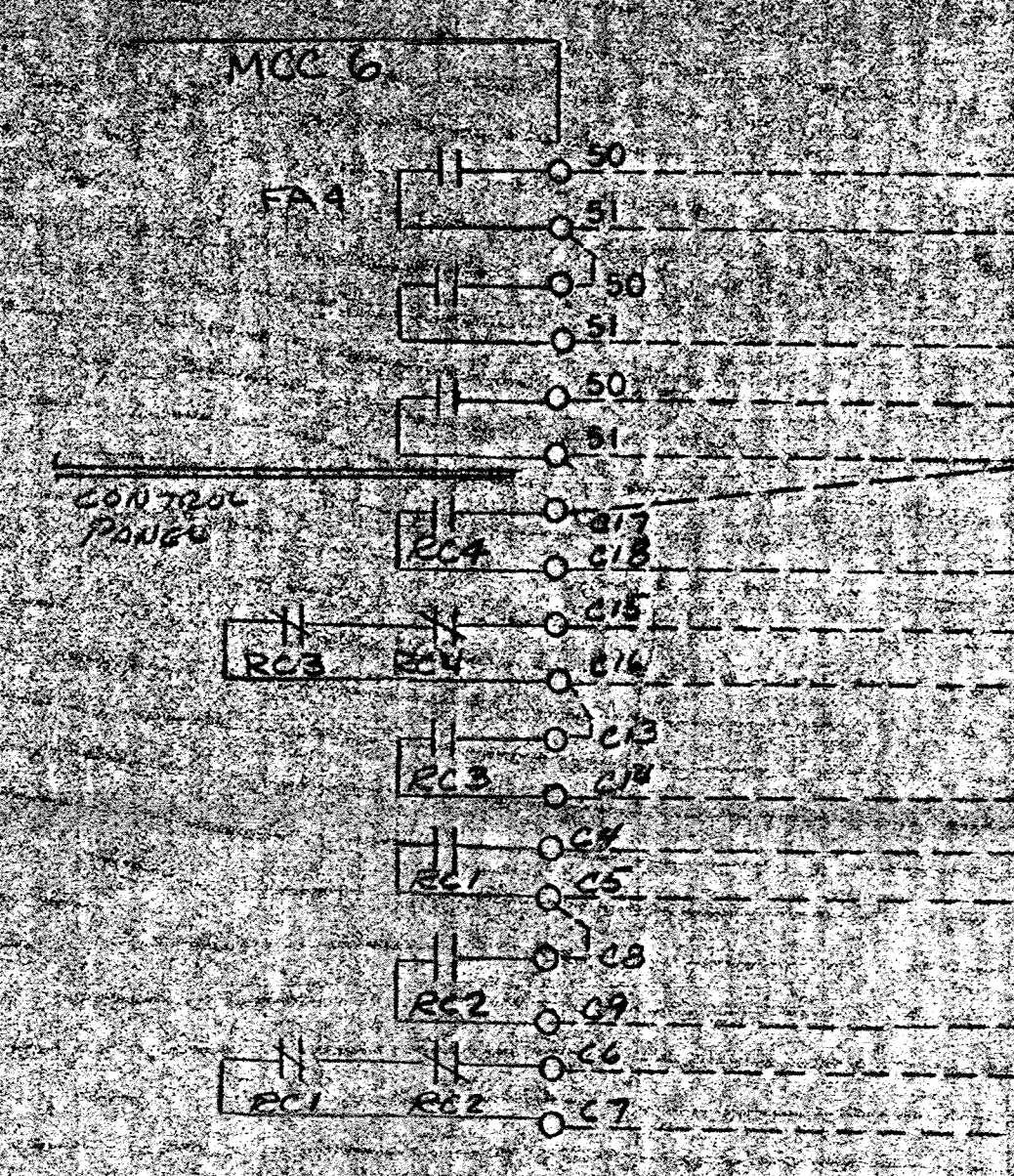
HONEYWELL INC.
VALLEY FORGE, PA.

SAVAGE WASTEWATER TREATMENT PLANT
HARRISBURG COUNTY ENERGY AND ADDITION #014 CONTRACT CO'S 5

DRAWER: LIZ DATE: 4-12-79
CHK: [Signature] DATE: 1/1/80
ENGR: [Signature] DATE: 8-01-80
SCALE: [Signature] DATE: 1/1/80

DWG NO. 310D/28342 P10 SHT 2 OF 10

B-NEW CARD



TERM	TAG	NAME
1		LIME SLURRY TRANSFER PUMP #1
2		SIGNAL COMMON
3		LIME SLURRY TRANSFER PUMP #4
4		LIME SLURRY TRANSFER PUMP #5
5		SIGNAL COMMON
6		PSS AB#4 VALVE OPENED
7		PSS AB#4 VALVE CONTROL
8		SIGNAL COMMON
9		PSS AB#4 VALVE CLOSED
10		PSS AB#5 VALVE CLOSED
11		SIGNAL COMMON
12		PSS AB#5 VALVE OPENED
13		PSS AB#5 VALVE CONTROL
14		SIGNAL COMMON
15		
16		
17		SIGNAL COMMON
18		
19		
20		SIGNAL COMMON
21		
22		
23		SIGNAL COMMON
24		

CABINET NO 7
CFA NO 2
TERM BLOCK 6
CARD TYPE PXID21

PART OF BASE CONTRACT

PRO. 9 D

INSTRUMENT PANEL

PTB21-31 SHD CMD
SYSTEM DC GND

PTB21-29 CONTACT CLOSURE TO COMPUTER MODE
SYSTEM DC GND

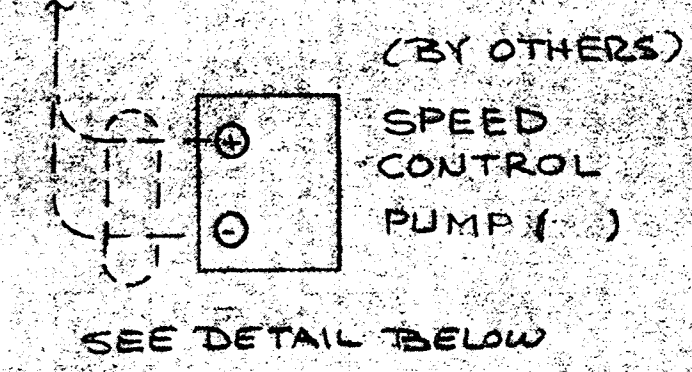
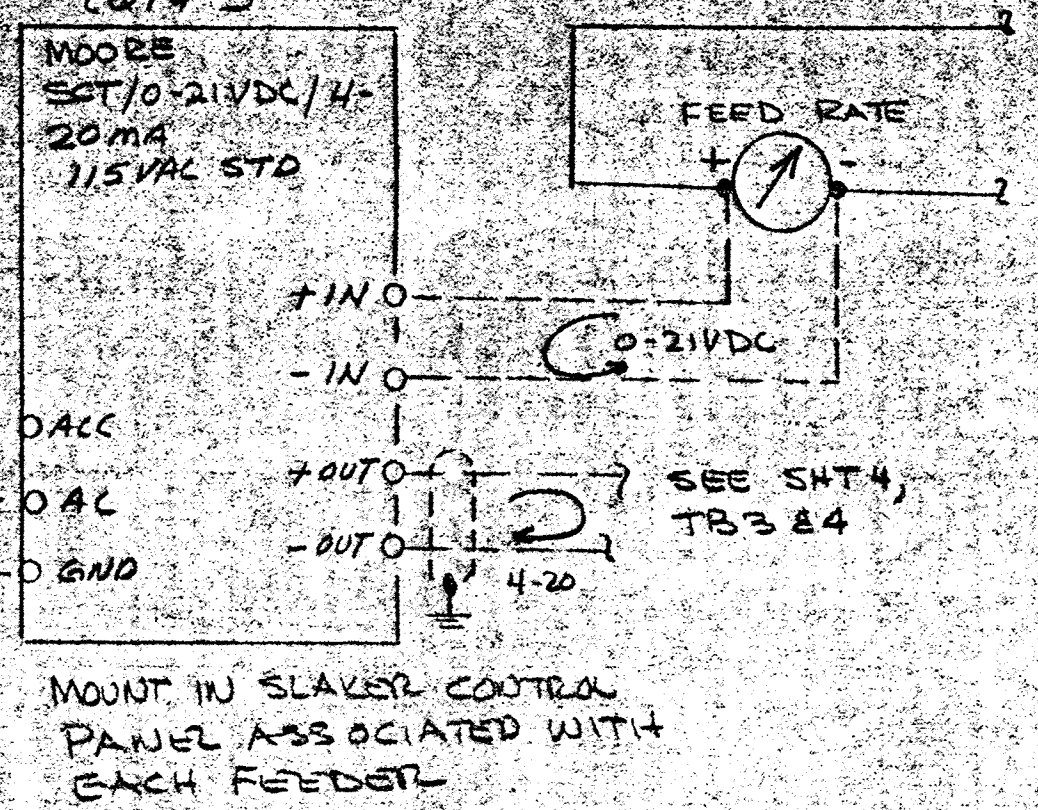
ANALOG OUTPUT -34
SYSTEM DC GND

PTB21-11 SHED CMD
SYSTEM DC GND

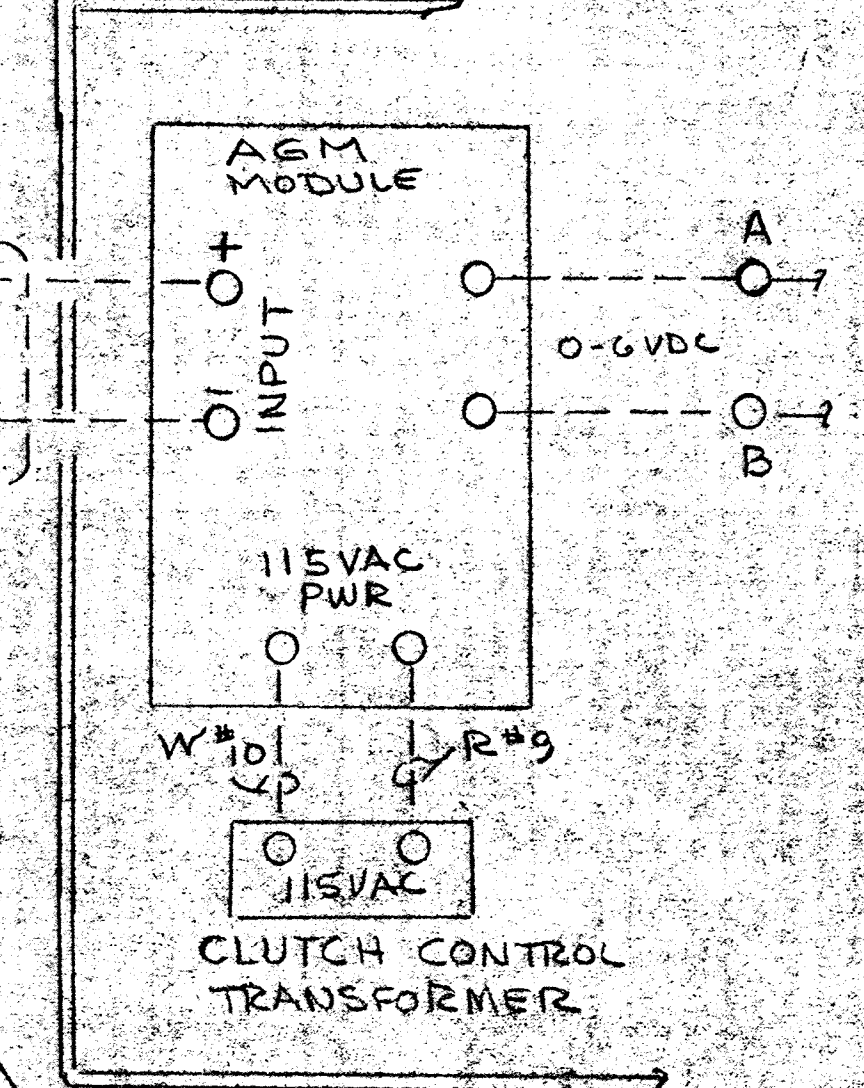
CONTACT CLOSURE TO COMPUTER MODE -9
SYSTEM DC GND -10

ANALOG OUTPUT -14
SYSTEM DC GND

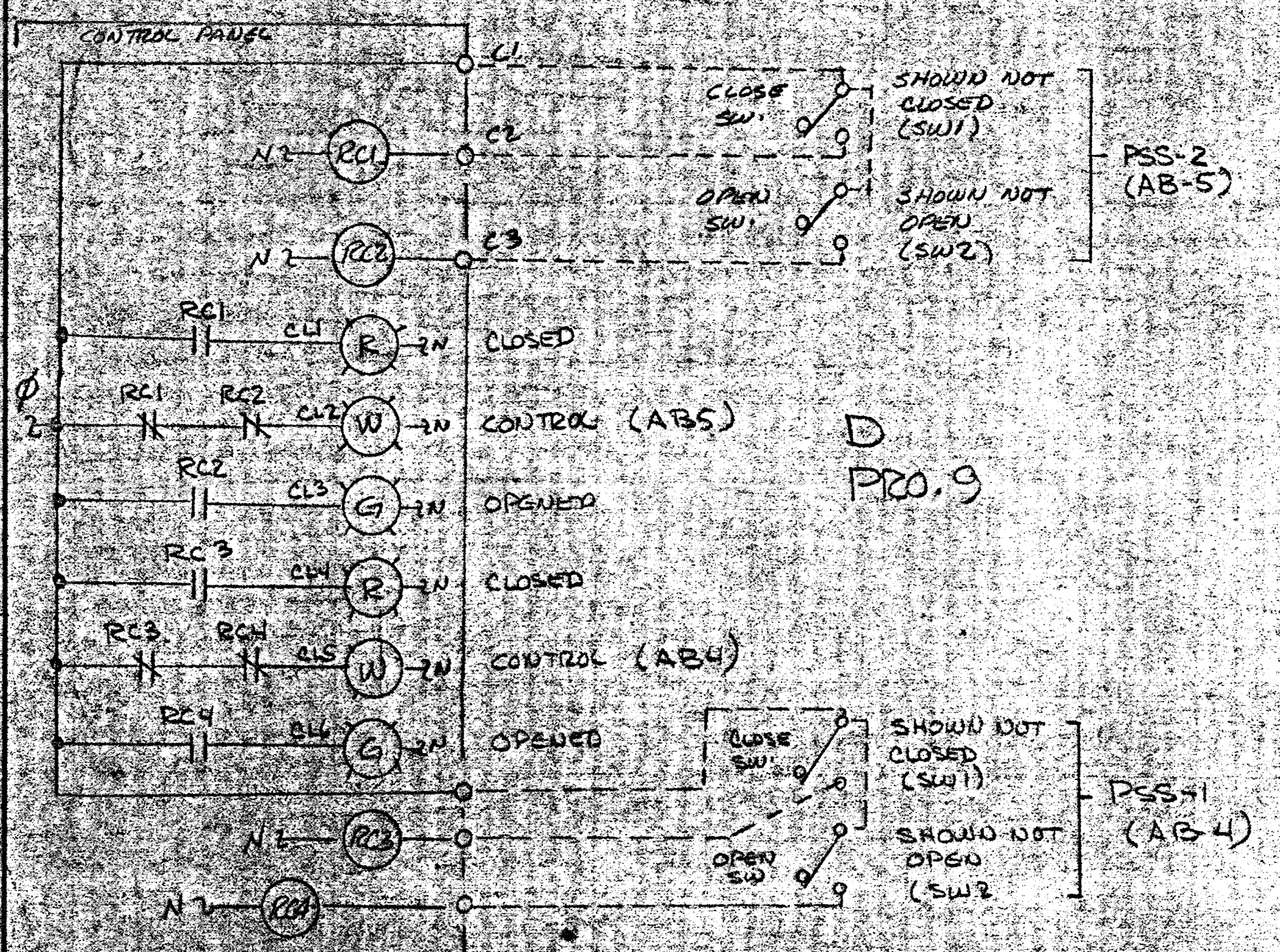
D PRO. 9



VARIABLE SPEED PUMP CONTROL ENCLOSURE



TERM.	EM	UIS
A	37	7
B	38	8



D PRO. 9

(PART OF BASIC 505-8 WORK)

PIU-6 (SEE NOTES BELOW) D

TERM	TAG	NAME	TB6	TB7
3		AB#4 VALVE CONTROL	3+2	2+3
2		AB#4 VALVE CONTROL		
2	HL7-CFA2-TB7			
3	HL7-CFA2-TB7			

CAB NO. 7
CFA NO. 2
TB. 6
TYPE PX011

TERM	TAG	NAME
13		AB#4 VALVE CONTROL
14		AB#4 VALVE CONTROL

CAB NO. 7
CFA NO. 2
TB. 3
TYPE PXID21

TERM	TAG	NAME
17		AB#4 VALVE CONTROL
18		SYSTEM DC GROUND

CAB NO. 118
CFA NO. 1
TB. 1
TYPE PX011

TERM	TAG	NAME	TB6	TB7
6		AB#5 VALVE CONTROL	6+5	5+6
5		AB#5 VALVE CONTROL		
5	HL7-CFA2-TB7			
6	HL7-CFA2-TB7			

CAB NO. 7
CFA NO. 2
TB. 6
TYPE PX011

TERM	TAG	NAME
14		AB#5 VALVE CONTROL
15		AB#5 VALVE CONTROL

CAB NO. 7
CFA NO. 2
TB. 3
TYPE PXID21

TERM	TAG	NAME
20		AB#5 VALVE CONTROL
21		SYSTEM DC GROUND

CAB NO. 8
CFA NO. 1
TB. 1
TYPE PX011

- PUMP 3A } R.A.S. AERATION BASIN NO 4, SHT. 6
- PUMP 3B } R.A.S. AERATION BASIN NO 4, SHT. 6
- PUMP 4A } R.A.S. AERATION BASIN NO 5, SHT. 6
- PUMP 4B } R.A.S. AERATION BASIN NO 5, SHT. 6
- PUMP 5A } R.A.S. AERATION BASIN NO 5, SHT. 6
- PUMP 5B } R.A.S. AERATION BASIN NO 5, SHT. 6
- PUMP 2A } R.N.S. AERATION BASIN NO 2a, SHT. 7
- PUMP 2B } R.N.S. AERATION BASIN NO 2b, SHT. 7
- PUMP 3A } R.N.S. AERATION BASIN NO 3a, SHT. 8
- PUMP 3C } R.N.S. AERATION BASIN NO 3b, SHT. 8
- PUMP 3B } R.N.S. AERATION BASIN NO 3b, SHT. 8
- PUMP #1 } W.A.S. SHT. 9
- PUMP #2 } W.A.S. SHT. 9
- PUMP #1 } W.N.S. SHT. 9
- PUMP #2 } W.N.S. SHT. 9

"PROPOSAL NO 18"

REV. C

LEGEND

- FIELD WIRING (NOT BY HONEYWELL)
- WIRING BY HONEYWELL
- BACK OF PANEL TERMINAL
- PNEUMATIC CONNECTION
- DEVICES (NOT BY HONEYWELL)
- 20 PSIG. AIR SUPPLY

NOTE: ADD NEW CARD PXID11 TO HL7, CFA2, TB5

REV.	DATE	DESCRIPTION	CHK.	APP.
E	7/1/82	AS INSTALLED		CE
D	5/1/81	EDS - CHAS		CE
C	1/1/81	ADDED PRTL PRO. 18		CE
B		NEW SHEET FOR P220		CE

HONEYWELL INC. VALLEY FORGE, PA.

SAVAGE WASTE WATER TREATMENT PLANT

HOWARD COUNTY, MARYLAND

ADDITION NO. 4 CONTROL BASIS

DWG NO. 0160-28342-PIU-6 SHT. 10 OF 10