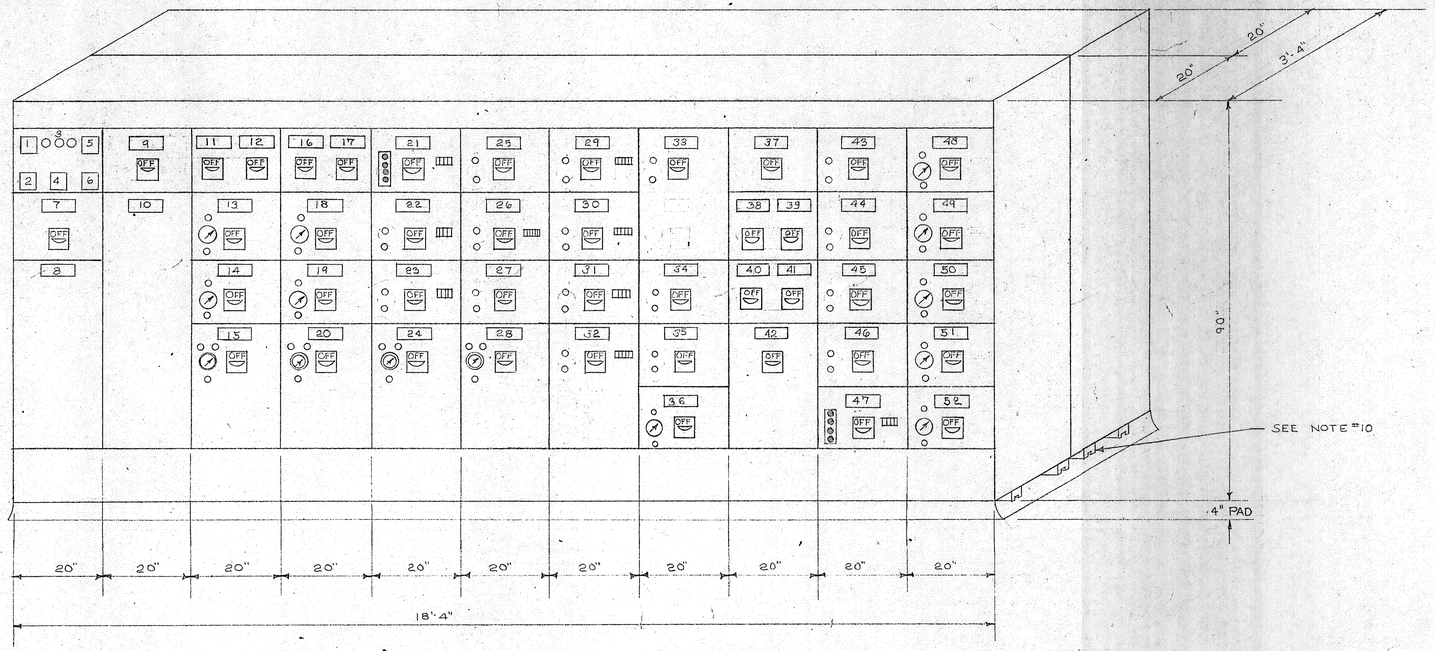
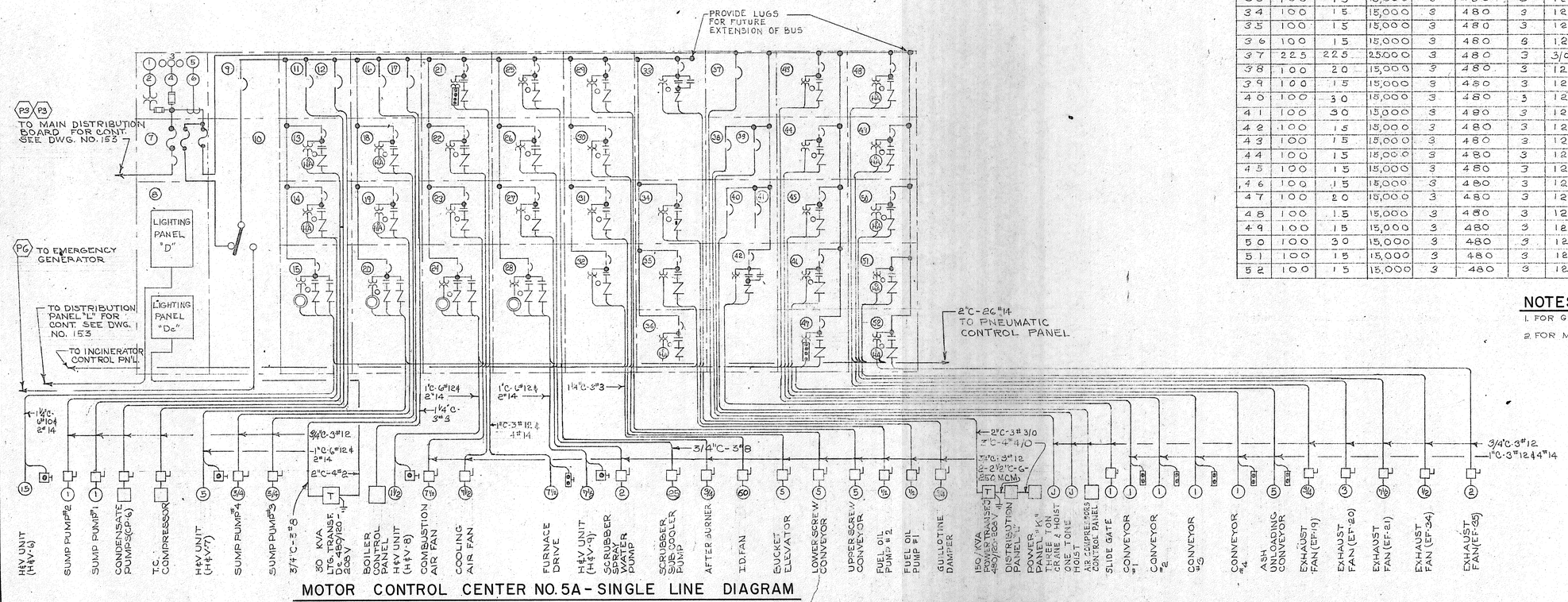


REAR ELEVATION - MOTOR CONTROL CENTER NO. 5A



MOTOR CONTROL CENTER NO. 5A - SINGLE LINE DIAGRAM

MOTOR CONTROL CENTER NO. 5 A SCHEDULE

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C.CAP AMPS AT 480	NO. OF POLES	OPER. VOLTAGE	LUGS NO.	LUGS SIZE	START NEMA SIZE	H.P	NAMEPLATE	SEE NOTE
1	—	—	—	—	0/600	—	—	—	—	VOLTMETER	
2	—	—	—	—	0/600	—	—	—	—	VOLTMETER SWITCH	
3	—	—	—	—	0/600	—	—	—	—	GROUND DETECTOR LAMPS	
4	—	—	—	—	0/600	—	—	—	—	GROUND DETECTOR SWITCH	
5	—	—	—	—	0/600	—	—	—	—	AMMETER	
6	—	—	—	—	0/600	—	—	—	—	AMMETER SWITCH	
7	600	600	35,000	3	480	6	250 MCM	—	—	MAIN SECONDARY BREAKER	
8										LIGHTING PANELS D & Dc	
9	350	300	35,000	3	480	—	—	—	—	SECONDARY BREAKER	
10	—	—	—	—	—	—	—	—	—	TRANSFER SWITCH	12
11	100	15	15,000	3	480	3	12	—	—	CONDENSATE PUMP (CP-6)	
12	100	15	15,000	3	480	3	12	—	—	T.C. COMPRESSOR	
13	100	15	15,000	3	480	3	12	1	1	SUMP PUMP #1	2
14	100	15	15,000	3	480	3	12	1	1	SUMP PUMP #2	2
15	100	50	15,000	3	480	6	10	2	15	H&V UNIT (H&V-6)	11,13
16	100	50	15,000	3	480	3	8	—	—	LTG. TRANSF. Dc	
17	100	100	15,000	3	480	3	3	—	—	BOILER CONTROL PANEL	
18	100	15	15,000	3	480	3	12	1	3/4	SUMP PUMP #3	2
19	100	15	15,000	3	480	3	12	1	3/4	SUMP PUMP #4	2
20	100	20	15,000	3	480	6	12	1	5	H&V UNIT (H&V-7)	11,13
21	100	30	15,000	3	480	3	12	1	7 1/2	FURNACE DRIVE	3,7
22	100	30	15,000	3	480	3	12	1	7 1/2	COOLING AIR FAN	7,14
23	100	30	15,000	3	480	3	12	1	7 1/2	COMBUSTION AIR FAN	7,14
24	100	15	15,000	3	480	6	12	1	1 1/2	H&V UNIT (H&V-8)	11,13
25	100	15	15,000	3	480	3	12	1	3/4	AFTER BURNER	14
26	100	70	15,000	3	480	3	8	2	25	SCRUBBER SUB COOLER PUMP	7,14
27	100	15	15,000	3	480	3	12	1	2	SCRUBBER SPRAY WATER PUMP	14
28	100	30	15,000	3	480	6	12	1	7 1/2	H&V UNIT (H&V-9)	11,13
29	100	20	15,000	3	480	3	12	1	5	UPPER SCREW CONVEYOR	7,14
30	100	20	15,000	3	480	3	12	1	5	LOWER SCREW CONVEYOR	14,7
31	100	20	15,000	3	480	3	12	1	5	BUCKET ELEVATOR	7,14
32	225	150	25,000	3	480	3	3	4	60	I.D. FAN	7,14
33	100	15	15,000	3	480	3	12	1	3/4	GUILLOTINE DAMPER	14,15
34	100	15	15,000	3	480	3	12	1	1/2	FUEL OIL PUMP #1	14
35	100	15	15,000	3	480	3	12	1	1/2	FUEL OIL PUMP #2	14
36	100	15	15,000	3	480	3	12	1	—	BLANK (SPARE)	2
37	225	225	25,000	3	480	3	3/0	—	—	POWER TRANSF. "J" BKR.	
38	100	20	15,000	3	480	3	12	—	—	THREE TON TROLLEY & HOIST	
39	100	15	15,000	3	480	3	12	—	—	ONE TON HOIST	
40	100	30	15,000	3	480	3	12	—	—	AIR COMPRESSORS	
41	100	30	15,000	3	480	3	12	—	—	SPARE BREAKER	
42	100	15	15,000	3	480	3	12	1	1	SLIDE GATE	15
43	100	15	15,000	3	480	3	12	1	1	CONVEYOR #1	14
44	100	15	15,000	3	480	3	12	1	1	CONVEYOR #2	14
45	100	15	15,000	3	480	3	12	1	1	CONVEYOR #3	14
46	100	15	15,000	3	480	3	12	1	1	CONVEYOR #4	14
47	100	20	15,000	3	480	3	12	1	3	ASH UNLOADING CONVEYOR	3,7
48	100	15	15,000	3	480	3	12	1	3/4	EXHAUST FAN (EF-19)	2
49	100	15	15,000	3	480	3	12	1	3	EXHAUST FAN (EF-20)	2
50	100	30	15,000	3	480	3	12	1	7 1/2	EXHAUST FAN (EF-21)	2
51	100	15	15,000	3	480	3	12	1	1/2	EXHAUST FAN (EF-34)	2
52	100	15	15,000	3	480	3	12	1	2	EXHAUST FAN (EF-35)	2

NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. 133
2. FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. 139

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

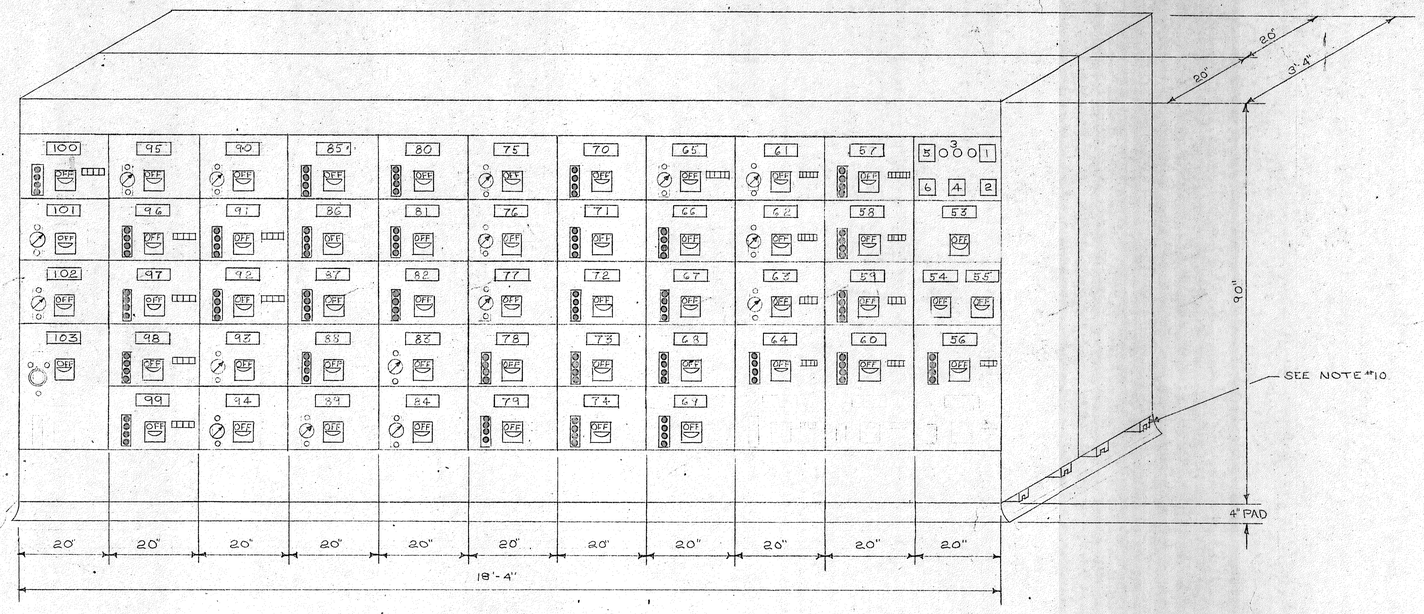
DRAWN: R. BURMAN DESIGNED: G.G ACHOWSKI
CHECKED: J. LITTLEJOHN APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

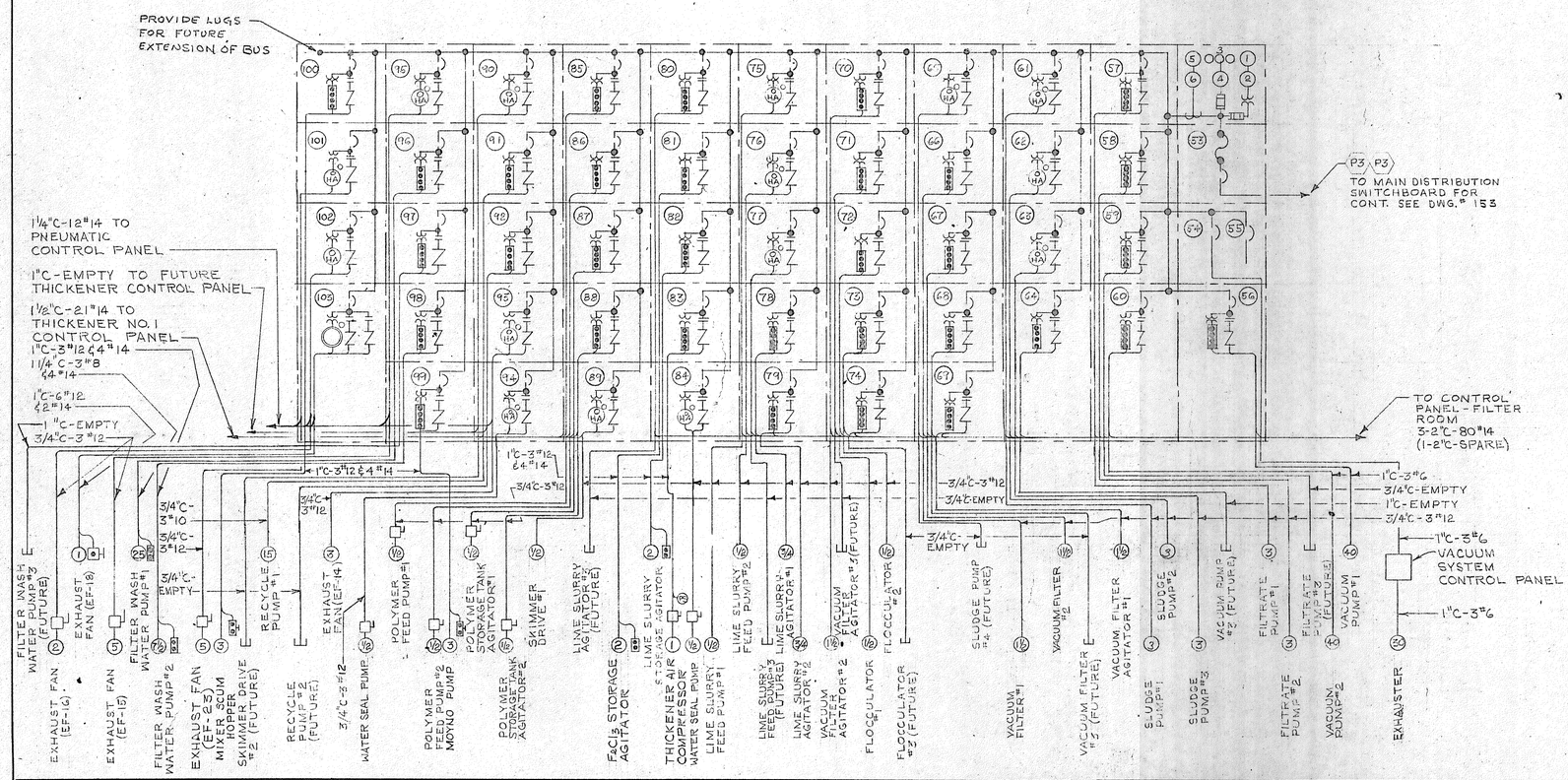
CHARLES A. MAGUIRE & ASSOCIATES
ENGINEERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

APPROVED
TOWN OF STRATFORD

TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
MOTOR CONTROL CENTER NO. 5A

SCALE: NO SCALE
C. A. M. NO. 1165
DRAWING NO. 156





MOTOR CONTROL CENTER NO. 5 SCHEDULE (CONT.)

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C.CAP AMPS AT 480	NO. OF POLES	OPER. VOLTAGE	LUGS NO.	LUGS SIZE	START NEMA SIZE	H.P.	NAMEPLATE	SEE NOTE
1	—	—	—	—	0/600	—	—	—	—	VOLTMETER	
2	—	—	—	—	0/600	—	—	—	—	VOLTMETER SWITCH	
3	—	—	—	—	0/600	—	—	—	—	GROUND DETECTOR LAMPS	
4	—	—	—	—	0/600	—	—	—	—	GROUND DETECTOR SWITCH	
5	—	—	—	—	0/600	—	—	—	—	AMMETER	
6	—	—	—	—	0/600	—	—	—	—	AMMETER SWITCH	
53	600	600	35,000	3	480	6	250 MCM	—	—	MAIN SECONDARY BREAKER	
54	100	100	15,000	3	480	3	6	—	—	VACUUM SYSTEM	
55	100	15	15,000	3	480	3	12	—	—	SPARE BREAKER	
56	100	100	15,000	3	480	3	6	3	40	VACUUM PUMP #1	3,7
57	100	15	15,000	3	480	3	12	1	3	FILTRATE PUMP #1	3,7
58	100	15	15,000	3	480	3	12	1	3	FILTRATE PUMP #2	3,7
59	100	15	15,000	3	480	3	12	1	3	FILTRATE PUMP #3 (FUTURE)	3,7
60	100	100	15,000	3	480	3	6	3	40	VACUUM PUMP #2	3,7
61	100	15	15,000	3	480	3	12	1	3	SLUDGE PUMP #1	2,7
62	100	15	15,000	3	480	3	12	1	3	SLUDGE PUMP #2	2,7
63	100	15	15,000	3	480	3	12	1	3	SLUDGE PUMP #3	2,7
64	100	100	15,000	3	480	3	6	3	40	VACUUM PUMP #3 (FUTURE)	3,7
65	100	15	15,000	3	480	3	12	1	3	SLUDGE PUMP #4 (FUTURE)	2,7
66	100	15	15,000	3	480	3	12	1	1½	VACUUM FILTER DRIVE #1	3
67	100	15	15,000	3	480	3	12	1	1½	VACUUM FILTER DRIVE #2	3
68	100	15	15,000	3	480	3	12	1	1½	VACUUM FILTER DRIVE #3 (FUTURE)	3
69	100	15	15,000	3	480	3	12	1	1½	VACUUM FILTER AGITATOR DRIVE #1	3
70	100	15	15,000	3	480	3	12	1	1½	VACUUM FILTER AGITATOR DRIVE #2	3
71	100	15	15,000	3	480	3	12	1	1½	VACUUM FILTER AGITATOR DRIVE #3 (FUTURE)	3
72	100	15	15,000	3	480	3	12	1	½	FLOCCULATOR DRIVE #1	3
73	100	15	15,000	3	480	3	12	1	½	FLOCCULATOR DRIVE #2	3
74	100	15	15,000	3	480	3	12	1	½	FLOCCULATOR DRIVE #3 (FUTURE)	3
75	100	15	15,000	3	480	3	12	1	½	LIME SLURRY FEED PUMP #1	2
76	100	15	15,000	3	480	3	12	1	½	LIME SLURRY FEED PUMP #2	2
77	100	15	15,000	3	480	3	12	1	½	LIME SLURRY FEED PUMP #3 (FUTURE)	2
78	100	15	15,000	3	480	3	12	1	¾	LIME SLURRY AGITATOR #1	3
79	100	15	15,000	3	480	3	12	1	¾	LIME SLURRY AGITATOR #2	3
80	100	15	15,000	3	480	3	12	1	¾	LIME SLURRY AGITATOR #3 (FUTURE)	3
81	100	15	15,000	3	480	3	12	1	2	FeCl3 STORAGE AGITATOR	3
82	100	15	15,000	3	480	3	12	1	2	LIME SLURRY STORAGE AGITATOR	3
83	100	15	15,000	3	480	3	12	1	.1	THICKENER AIR COMPRESSOR	2
84	100	15	15,000	3	480	3	12	1	½	WATER SEAL PUMP	2
85	100	15	15,000	3	480	3	12	1	½	POLYMER FEED PUMP #1	3
86	100	15	15,000	3	480	3	12	1	½	POLYMER FEED PUMP #2	3
87	100	15	15,000	3	480	3	12	1	½	POLYMER STORAGE AGITATOR #1	3
88	100	15	15,000	3	480	3	12	1	½	POLYMER STORAGE AGITATOR #2	3
89	100	15	15,000	3	480	3	12	1	½	SKIMMER DRIVE #1	2
90	100	15	15,000	3	480	3	12	1	½	SKIMMER DRIVE #2 (FUTURE)	2
91	100	50	15,000	3	480	3	10	2	15	RECYCLE PUMP #1	3,7
92	100	50	15,000	3	480	3	10	2	15	RECYCLE PUMP #2 (FUTURE)	3,7
93	100	15	15,000	3	480	3	12	1	3	EXHAUST FAN (EF-14)	2
94	100	15	15,000	3	480	3	12	1	½	WATER SEAL PUMP	2
95	100	20	15,000	3	480	3	12	1	5	EXHAUST FAN (EF-15)	2
96	100	70	15,000	3	480	3	8	2	25	FILTER WASH WATER PUMP #1	3,7
97	100	30	15,000	3	480	3	12	1	7½	FILTER WASH WATER PUMP #2	3,7
98	100	30	15,000	3	480	3	12	1	7½	FILTER WASH WATER PUMP #3 (FUTURE)	3,7
99	100	15	15,000	3	480	3	12	1	3	MOYNO PUMP	3,7
100	100	15	15,000	3	480	3	12	1	3	MIXER (SCUM HOPPER)	3,7
101	100	20	15,000	3	480	3	12	1	5	EXHAUST FAN (EF-23)	2
102	100	15	15,000	3	480	3	12	1	2	EXHAUST FAN (EF-16)	2
103	100	15	15,000	3	480	6	12	1	1	EXHAUST FAN (EF-18)	11,13

NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO. 133
2. FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. 139

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: R. BURMAN DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

CHARLES A. MAGUIRE & ASSOCIATES
ENGINEERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

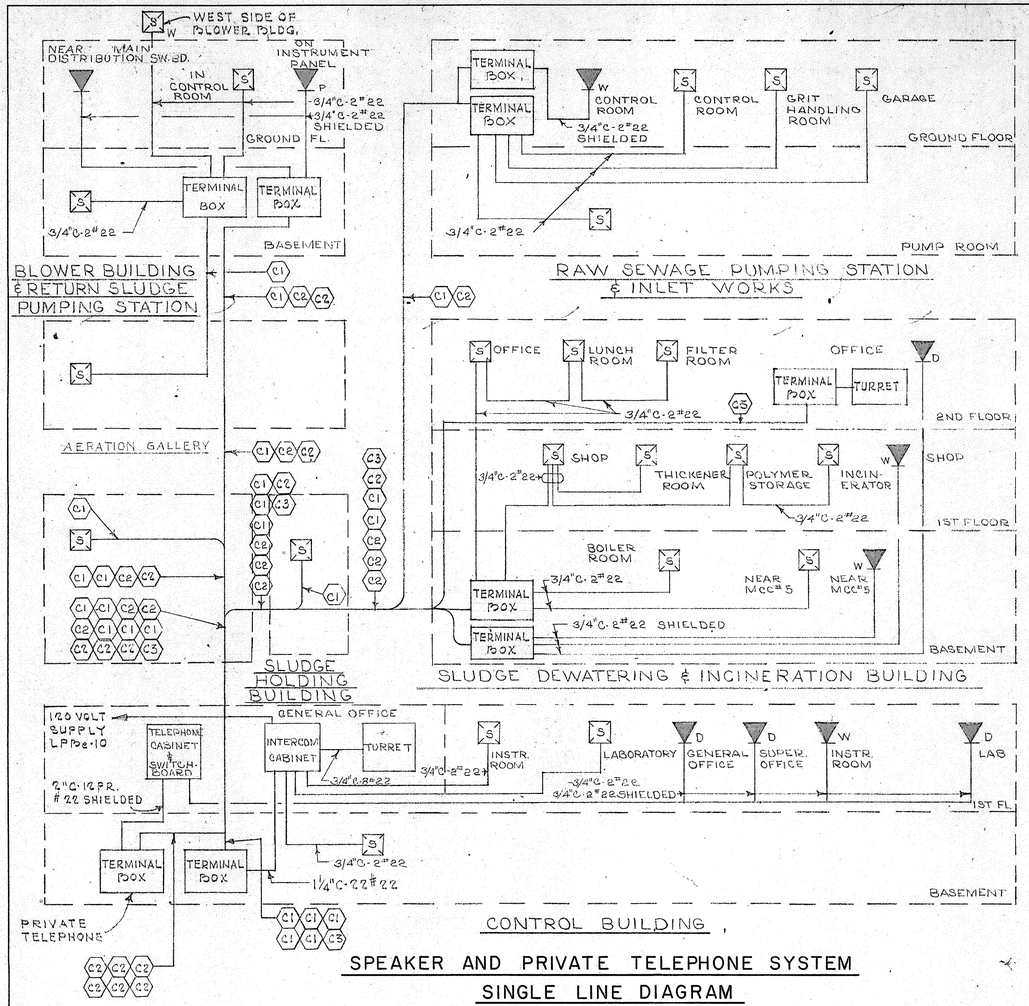
APPROVED
TOWN OF STRATFORD

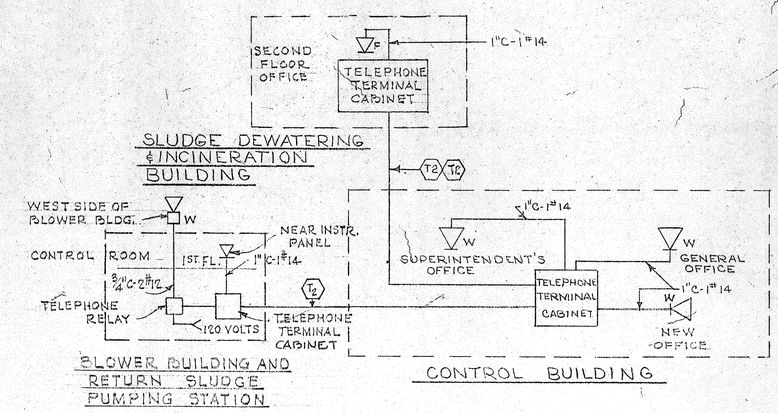
TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
MOTOR CONTROL CENTER NO.5

SCALE
NO. SCALE

C. A. M. NO. 1165

DRAWING NO.
157





PUBLIC TELEPHONE SYSTEM
SINGLE LINE DIAGRAM

NOTES:
1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO. 133

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

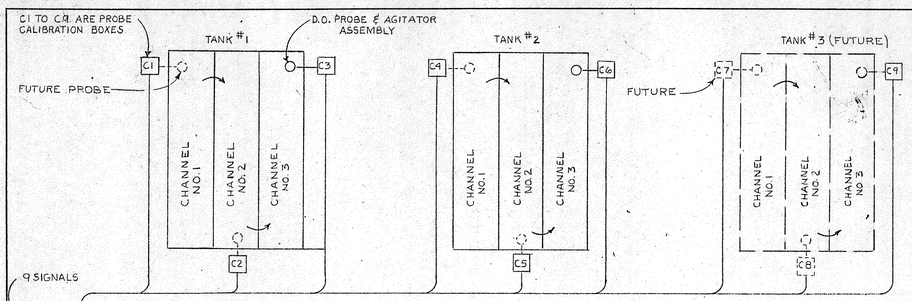
DRAWN: R. BURMAN DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

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PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

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TOWN OF STRATFORD

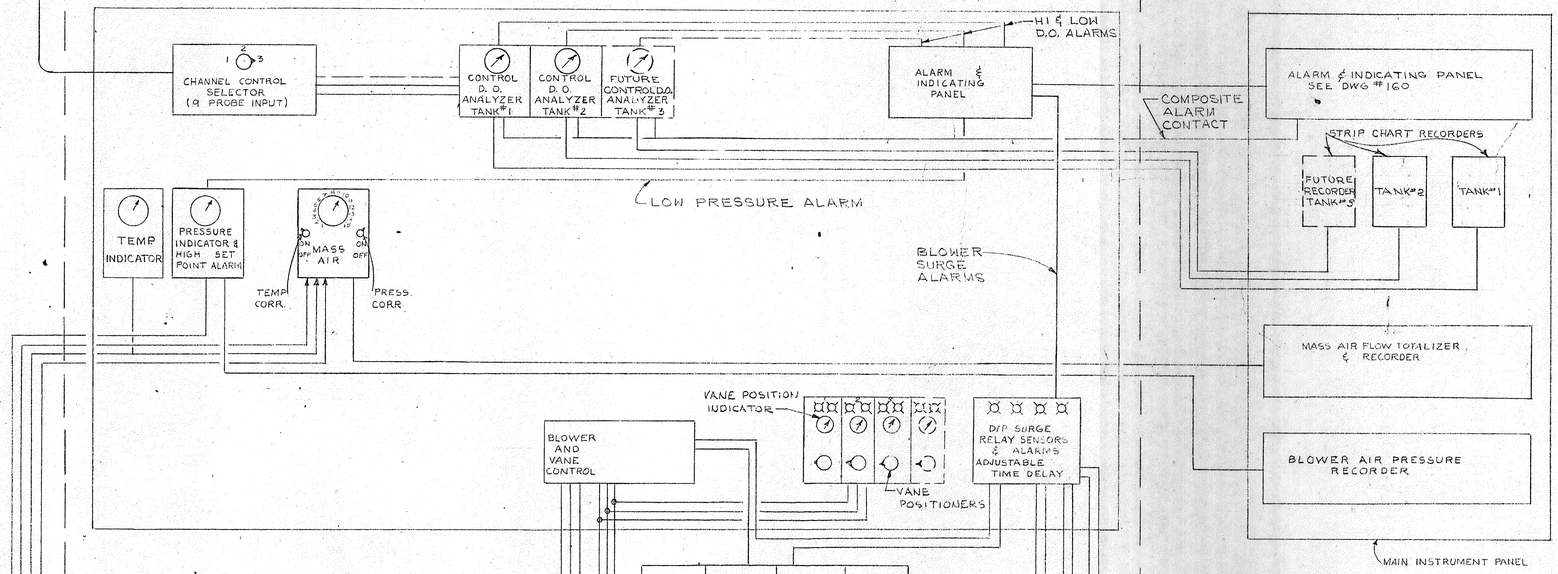
TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
TELEPHONE & COMMUNICATIONS SYSTEM
SINGLE LINE DIAGRAM

SCALE
NO SCALE
C. A. M. NO. 1165
DRAWING NO.
158



AERATION TANKS

INSTRUMENT PANEL



BLOWER BUILDING

NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO. 155
2. FOR BLOWER BUILDING INSTRUMENT PANEL ELEVATION SEE DWG. NO. 160

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

STATE OF CONNECTICUT — WALTER T. GAGLIOTTI — No. 5369 — REGISTERED PROFESSIONAL ENGINEER

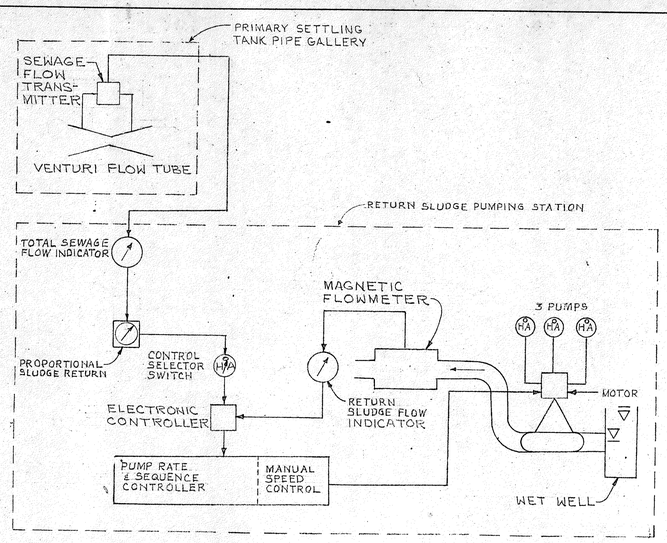
DRAWN: C. WASKIEWICZ — DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN — APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

CHARLES A. MAGUIRE & ASSOCIATES
ENGINEERS
PROVIDENCE, R.I. — WETHERSFIELD, CONN. — BOSTON, MASS.

APPROVED
TOWN OF STRATFORD

TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
INSTRUMENTATION — SHEET #1

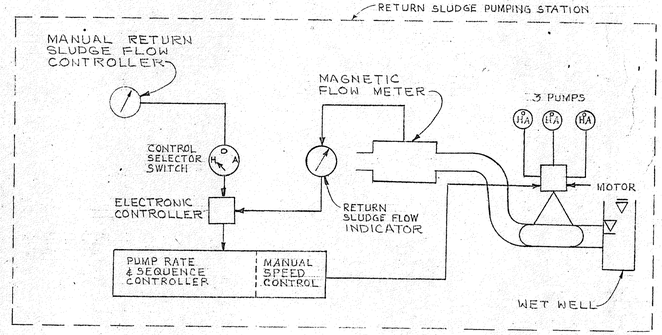
SCALE: NO SCALE
C. A. M. NO. 1165
DRAWING NO. 159



RETURN SLUDGE PUMP CONTROL NO.1

(AUTOMATIC RATE CONTROL BY SEWAGE FLOW)

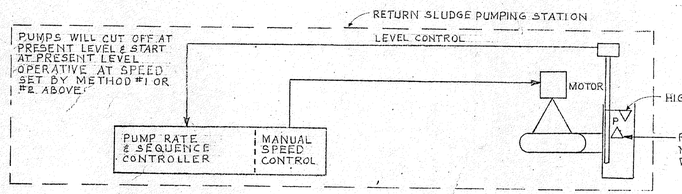
NO SCALE



RETURN SLUDGE PUMP CONTROL NO.2

(MANUALLY SET FLOW RATE)

NO SCALE

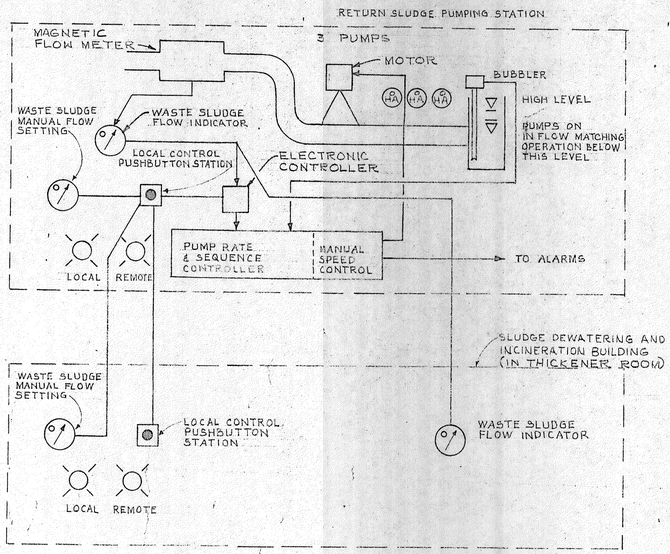


RETURN SLUDGE PUMP CONTROL NO.3

(SAFETY LEVEL OPERATION)

(OVERIDES CONTROL NO. 2)

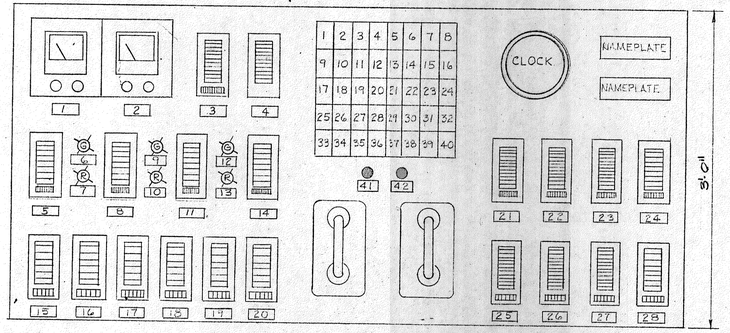
NO SCALE



WASTE SLUDGE CONTROL

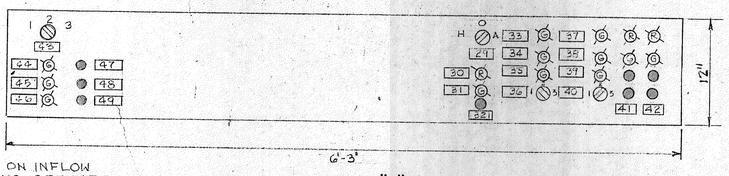
(FIXED OR SET FLOW)

NO SCALE



DETAIL "A"

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

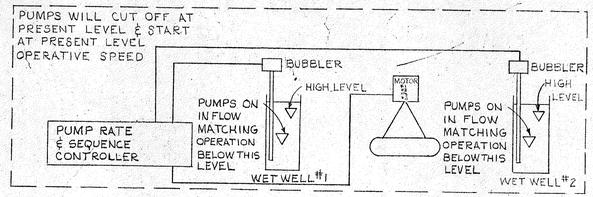


DETAIL "B"

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

NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING NO. 133
2. FOR LOCATION OF BLOWER BUILDING INSTRUMENT PANEL SEE DRAWING NO. 137
3. PROVIDE SHIPPING CHANNELS GROUTED INTO EQUIPMENT PAD.



RAW SEWAGE PUMP CONTROL

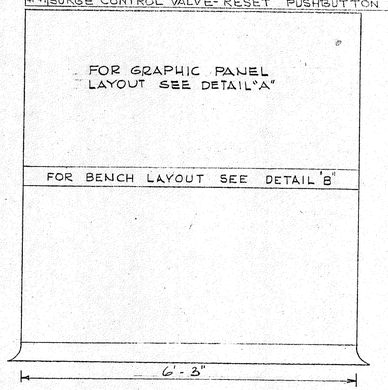
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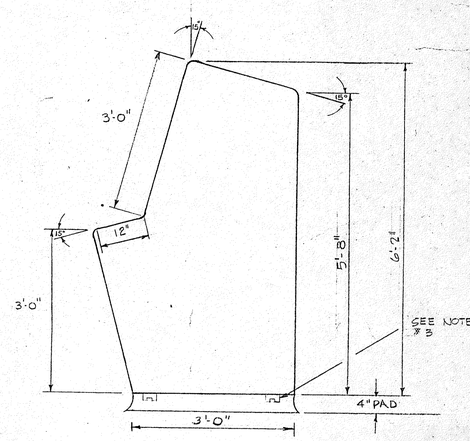
INSTRUMENT PANEL SCHEDULE

NO.	NAMEPLATE
1	DISSOLVED OXYGEN — TANK #1
2	DISSOLVED OXYGEN — TANK #2
3	PRESSURE
4	TEMPERATURE
5	VANE POSITIONER — BLOWER #1
6	VANE — FULL OPEN
7	VANE — FULL CLOSED
8	VANE POSITIONER — BLOWER #2
9	VANE — FULL OPEN
10	VANE — FULL CLOSED
11	VANE POSITIONER — BLOWER #3
12	VANE — FULL OPEN
13	VANE — FULL CLOSED
14	MASS AIR
15	BLOWER #1 — SURGE CONTROLLER
16	BLOWER #1 — SURGE RATIO CONTROLLER
17	BLOWER #2 — SURGE CONTROLLER
18	BLOWER #2 — SURGE RATIO CONTROLLER
19	BLOWER #3 — SURGE CONTROLLER
20	BLOWER #3 — SURGE RATIO CONTROLLER
21	SEWAGE FLOW
22	RETURN SLUDGE FLOW
23	RETURN SLUDGE FLOW — TANK #1
24	RETURN SLUDGE FLOW — TANK #2
25	RETURN SLUDGE — RATIO CONTROLLER
26	RETURN SLUDGE — MANUAL CONTROLLER
27	WASTE SLUDGE FLOW
28	WASTE SLUDGE — MANUAL CONTROLLER
29	RETURN SLUDGE CONTROL
30	REMOTE
31	LOCAL
32	WASTE SLUDGE CONTROL
33	RETURN SLUDGE PUMP #1
34	RETURN SLUDGE PUMP #2
35	RETURN SLUDGE PUMP #3
36	RETURN SLUDGE LEAD PUMP CONTROL
37	WASTE SLUDGE PUMP #1
38	WASTE SLUDGE PUMP #2
39	WASTE SLUDGE PUMP #3
40	WASTE SLUDGE LEAD PUMP CONTROL
41	FROTH SPRAY PUMP #1
42	FROTH SPRAY PUMP #2
43	AERATION TANKS CHANNEL SELECTOR SWITCH
44	BLOWER #1
45	BLOWER #2
46	BLOWER #3
47	SURGE CONTROL VALVE-RESET PUSHBUTTON

ALARM PANEL SCHEDULE

NO.	NAMEPLATE
1	AIR BLOWER #1 — OVERLOAD
2	AIR BLOWER #1 — SURGE
3	AIR BLOWER #1 — LOW OIL PRESSURE
4	AIR BLOWER #1 — HIGH OIL TEMPERATURE
5	AIR BLOWER #1 — HIGH AIR TEMPERATURE
6	AIR BLOWER #2 — OVERLOAD
7	AIR BLOWER #2 — SURGE
8	AIR BLOWER #2 — LOW OIL PRESSURE
9	AIR BLOWER #2 — HIGH OIL TEMPERATURE
10	AIR BLOWER #2 — HIGH AIR TEMPERATURE
11	AIR BLOWER #3 — OVERLOAD
12	AIR BLOWER #3 — SURGE
13	AIR BLOWER #3 — LOW OIL PRESSURE
14	AIR BLOWER #3 — HIGH OIL TEMPERATURE
15	AIR BLOWER #3 — HIGH AIR TEMPERATURE
16	AIR BLOWER #4 — OVERLOAD
17	AIR BLOWER #4 — SURGE
18	AIR BLOWER #4 — LOW OIL PRESSURE
19	AIR BLOWER #4 — HIGH OIL TEMPERATURE
20	AIR BLOWER #4 — HIGH AIR TEMPERATURE
21	TANK #1 — HIGH — LOW D.O.
22	TANK #2 — HIGH — LOW D.O.
23	TANK #3 — HIGH — LOW D.O.
24	LOW AIR HEADER PRESSURE
25	AIR FILTER
26	BLANK
27	BLANK
28	BLANK
29	BLANK
30	BLANK
31	BLANK
32	BLANK
33	SECONDARY COLLECTOR #1 — OVERLOAD
34	SECONDARY COLLECTOR #2 — OVERLOAD
35	SECONDARY COLLECTOR #3 — OVERLOAD
36	RETURN SLUDGE — WET WELL — LOW LEVEL
37	WASTE SLUDGE — WET WELL — LOW LEVEL
38	WATER SEAL PUMPS
39	BLANK
40	BLANK
41	LAMP TEST
42	ACKNOWLEDGE





BLOWER BUILDING INSTRUMENT PANEL

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

NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

STATE OF CONNECTICUT REGISTERED PROFESSIONAL ENGINEER No. 5286

DRAWN: L. KALINA DESIGNED: G. GACHOWSKI

CHECKED: J. LITTLEJOHN APPROVED: J. LITTLEJOHN

DATE: AUGUST, 1970

CHARLES A. MAGUIRE & ASSOCIATES ENGINEERS

PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

APPROVED

TOWN OF STRATFORD

TOWN OF STRATFORD, CONNECTICUT

SYSTEM OF SEWERS

CONTRACT NO. 2

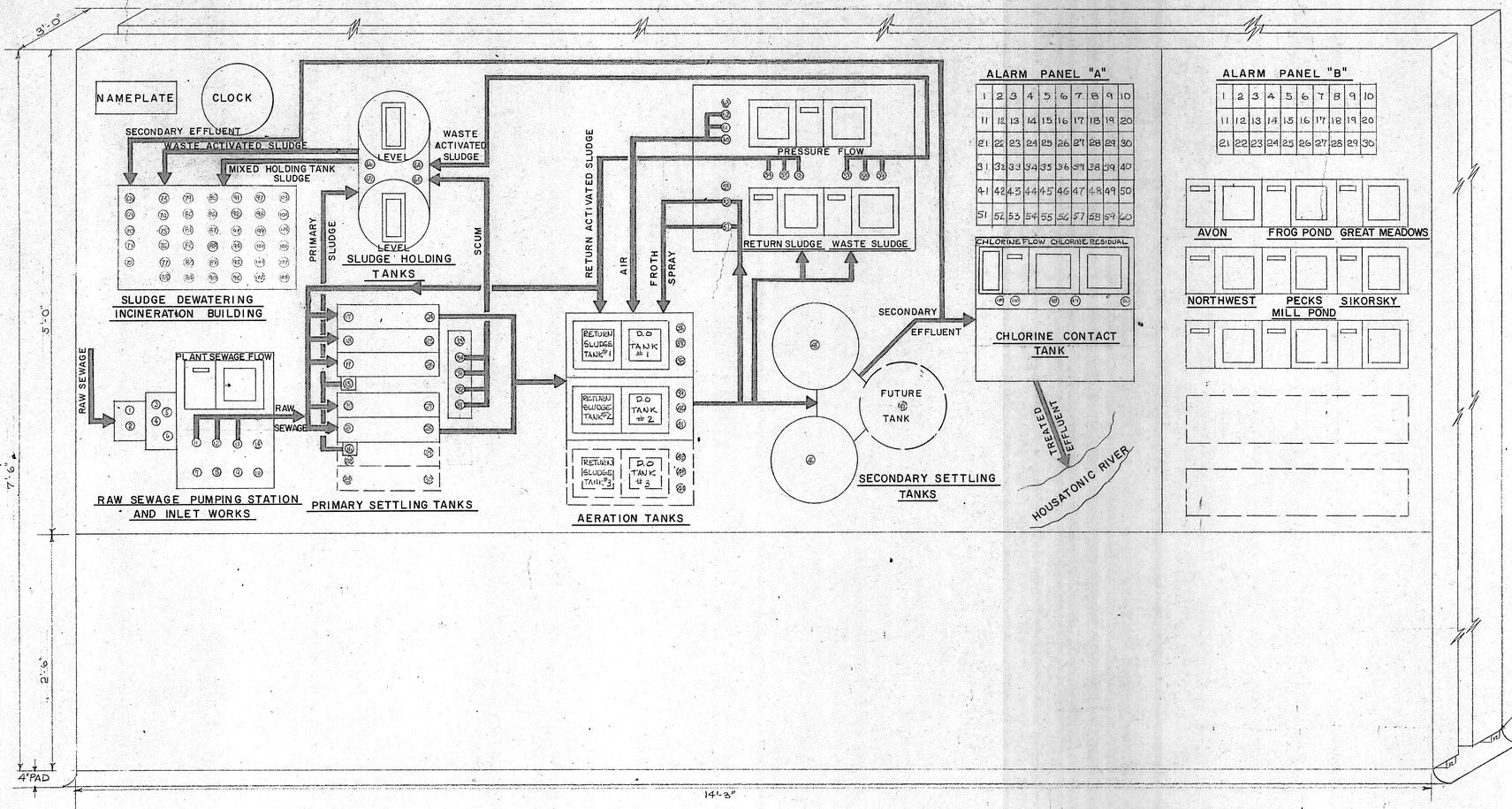
ELECTRICAL

INSTRUMENTATION — SHEET # 2

SCALE AS NOTED

C. A. M. NO. 1165

DRAWING NO. 160



MAIN INSTRUMENT PANEL

LEGEND

- 4" STRIP CHART RECORDER TOTALIZER
- 4" STRIP CHART RECORDER
- INDICATOR
- INDICATOR LIGHTS
- FUTURE PLANT UNITS CHARTS AND LIGHTS INDICATED BY DASH

NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO. 133
2. SEE DRAWING NO. 159 FOR D.O. SIGNAL SOURCE.
3. SEE DRAWINGS NOS. 162 & 163 FOR ALARM, INDICATING AND INSTRUMENTATION ONE LINE DIAGRAM
4. SEE DRAWING NO. 145 FOR LOCATION OF MAIN INSTRUMENT PANEL.
5. SHIPPING CHANNEL TO BE GROUTED INTO EQUIPMENT PAD

ALARM PANEL "A" SCHEDULE

NO.	NAMEPLATE
1.	AIR BLOWER OVERLOAD
2.	AIR BLOWER SURGE
3.	AIR BLOWER - HIGH AIR TEMP.
4.	AIR BLOWER - LOW AIR PRESSURE
5.	AIR BLOWER - LOW OIL PRESSURE OR HIGH OIL TEMPERATORE
6.	HIGH - LOW D. O.
7.	AIR FILTER
8.	RAW SEWAGE PUMPS
9.	WASTE SLUDGE PUMPS
10.	RETURN SLUDGE PUMPS
11.	RETURN SLUDGE WETWELL LOW LEVEL
12.	WASTE SLUDGE WETWELL LOW LEVEL
13.	FROTH SPRAY WATER-LOW DISCHARGE PRESS.
14.	SECONDARY COLLECTORS OVERLOAD
15.	SLUDGE STORAGE TANKS HIGH-LOW LEVEL
16.	CHLORINE GAS DETECTOR ALARM
17.	LOW OR HIGH CHLORINE RESIDUAL
18.	CHLORINE VACUUM
19.	LOW CHLORINE GAS PRESSURE NO. 1 OR 2
20.	HIGH LEVEL RAW SEWAGE PUMPS WET WELL
21.	LOW LEVEL RAW SEWAGE PUMPS WET WELL
22.	SUMP PUMPS - HIGH LEVEL (INLET WORKS)
23.	SUMP PUMPS - HIGH LEVEL (SLUDGE DEWATER)
24.	SUMP PUMPS - HIGH LEVEL (BOILER ROOM)
25.	SUMP PUMPS - HIGH LEVEL (CONTROL BLDG.)

ALARM PANEL "A" SCHEDULE (CONT.)

NO.	NAMEPLATE
26.	SUMP PUMPS - HIGH LEVEL (AERATION GALLERY)
27.	SUMP PUMPS - HIGH LEVEL (PRIMARY GALLERY)
28.	SUMP PUMPS - HIGH LEVEL (BLOWER BLDG.)
29.	SUMP PUMPS - HIGH LEVEL (RETURN SLUDGE)
30.	POWER FAILURE FEEDER MCC2 & 3
31.	POWER FAILURE FEEDER MCC5
32.	POWER FAILURE FEEDER MCC6
33.	GENERATOR # 1
34.	GENERATOR # 2
35.	GENERATOR # 3
36.	INCINERATOR #1 TEMPERATURE REG. HIGH LIMIT
37.	INCINERATOR #1 GAS LEAK
38.	INCINERATOR #1 SHAFT ROTATION STOPPED
39.	INCINERATOR #1 BY PASS DAMPER OPEN
40.	INCINERATOR #1 HIGH SHAFT COOLING AIR TEMP.
41.	BLOWER BLDG - TEMP. CONTROL
42.	RAW SEWAGE BLDG. - TEMP. CONTROL
43.	INCINERATION BLDG - TEMP. CONTROL
44.	CONTROL BLDG - TEMP. CONTROL
#60	BLANKS

GRAPHIC OPERATION PANEL SCHEDULE

NO.	NAMEPLATE
1	COMMINUTOR NO. 1
2	COMMINUTOR NO. 2
3	GRIT COLLECTOR DRIVE NO. 1
4	GRIT COLLECTOR DRIVE NO. 2
5	GRIT COLLECTOR SCREW CROSS CONVEYOR
6	GRIT COLLECTOR WASHER DRIVE
7	EMERGENCY GENERATOR NO. 1
8	EMERGENCY GENERATOR NO. 2
9	GRIT COMPRESSOR NO. 1 OR 2
10	WATER SEAL PUMP NO. 1 OR 2
11	RAW SEWAGE PUMP NO. 1
12	RAW SEWAGE PUMP NO. 2
13	RAW SEWAGE PUMP NO. 3
14	RAW SEWAGE PUMP #4 (FUTURE)
15	SCUM PUMP NO. 1
16	SCUM PUMP NO. 2
17	TRAVELING BRIDGE NO. 1
18	TRAVELING BRIDGE NO. 2
19	TRAVELING BRIDGE NO. 3
20	TRAVELING BRIDGE NO. 4
21	TRAVELING BRIDGE NO. 5
22	TRAVELING BRIDGE NO. 6 (FUTURE)
23	TRAVELING BRIDGE NO. 7 (FUTURE)
24	PRIMARY SLUDGE COLLECTOR NO. 1
25	PRIMARY SLUDGE COLLECTOR NO. 2
26	PRIMARY SLUDGE COLLECTOR NO. 3
27	PRIMARY SLUDGE COLLECTOR NO. 4
28	PRIMARY SLUDGE COLLECTOR NO. 5
29	PRIMARY SLUDGE COLLECTOR #6 (FUTURE)
30	PRIMARY SLUDGE COLLECTOR #7 (FUTURE)
31	RAW SLUDGE PUMP NO. 1
32	RAW SLUDGE PUMP NO. 2
33	RAW SLUDGE PUMP NO. 3
34	RAW SLUDGE PUMP NO. 4
35	RAW SLUDGE PUMP NO. 5 (FUTURE)
36	DISSOLVED OXYGEN PROBE #1 (SEE NOTE 2)
37	DISSOLVED OXYGEN PROBE #2 (SEE NOTE 2)
38	DISSOLVED OXYGEN PROBE #3 (SEE NOTE #2)
39	DISSOLVED OXYGEN PROBE #4 (SEE NOTE #2)
40	DISSOLVED OXYGEN PROBE #5 (SEE NOTE #2)
41	DISSOLVED OXYGEN PROBE #6 (SEE NOTE #2)
42	DISSOLVED OXYGEN PROBE #7 (FUTURE)
43	DISSOLVED OXYGEN PROBE #8 (FUTURE)
44	DISSOLVED OXYGEN PROBE #9 (FUTURE)
45	SECONDARY SLUDGE COLLECTOR #1
46	SECONDARY SLUDGE COLLECTOR #2
47	SECONDARY SLUDGE COLLECTOR #3 (FUTURE)
48	CHLORINATOR NO. 1
49	CHLORINATOR NO. 2
50	EMERGENCY GENERATOR NO. 3
51	FROTH SPRAY PUMP NO. 1
52	FROTH SPRAY PUMP NO. 2
53	WATER SEAL PUMP NO. 1 OR 2
54	RETURN SLUDGE PUMP NO. 1
55	RETURN SLUDGE PUMP NO. 2
56	RETURN SLUDGE PUMP NO. 3
57	WASTE SLUDGE PUMP NO. 1
58	WASTE SLUDGE PUMP NO. 2
59	WASTE SLUDGE PUMP NO. 3
60	BLOWER NO. 1
61	BLOWER NO. 2
62	BLOWER NO. 3
63	BLOWER NO. 4 (FUTURE)
64	CIRCULATOR PUMP NO. 1
65	CIRCULATOR PUMP NO. 2
66	COMPRESSOR NO. 1
67	COMPRESSOR NO. 2
68	FILTER WASH WATER PUMP NO. 1
69	FILTER WASH WATER PUMP NO. 2
70	FILTER WASH WATER PUMP NO. 3 (FUTURE)
71	SCRUBBER SPRAY WATER PUMP
72	SCRUBBER SUB-COOLER PUMP
73	SLUDGE PUMP #1
74	SLUDGE PUMP #2
75	SLUDGE PUMP #3

GRAPHIC OPERATION PANEL SCHEDULE (CONT.)

NO.	NAMEPLATE
76	SLUDGE PUMP #4 (FUTURE)
77	THICKENER SKIMMER #1
78	THICKENER SKIMMER #2 (FUTURE)
79	RECYCLE PUMP #1
80	RECYCLE PUMP #2 (FUTURE)
81	VACUUM PUMP #1
82	VACUUM PUMP #2
83	VACUUM PUMP #3 (FUTURE)
84	FILTRATE PUMP #1
85	FILTRATE PUMP #2
86	FILTRATE PUMP #3 (FUTURE)
87	VACUUM FILTER #1
88	VACUUM FILTER #2
89	VACUUM FILTER #3 (FUTURE)
90	VACUUM FILTER AGITATOR #1
91	VACUUM FILTER AGITATOR #2
92	VACUUM FILTER AGITATOR #3 (FUTURE)
93	FLOCCULATOR #1
94	FLOCCULATOR #2
95	FLOCCULATOR #3 (FUTURE)
96	BLANK
97	BLANK
98	BLANK
99	BLANK
100	BLANK
101	BLANK
102	BLANK
103	FURNACE DRIVE
104	COOLING AIR FAN
105	COMBUSTION AIR FAN
106	I.D. FAN
107	AIR COMPRESSOR
108	BLANK
109	WASH WATER PUMP #1 OR #3
110	CHLORINE INJECTOR PUMP #1 OR 2

ALARM PANEL "B" SCHEDULE

NO.	NAMEPLATE
1	AVON PUMPING STATION - HIGH WATER
2	FROG POND PUMPING STAT. - HIGH WATER
3	GREAT MEADOWS PUMPING STAT. - HIGH WATER
4	LONG BROOK PUMPING STAT. - HIGH WATER
5	NORTHWEST PUMPING STAT. - HIGH WATER, POWER FAILURE
6	NORTHWEST PUMPING STAT. - LOW PRESSURE
7	RACHEL DRIVE PUMP. STAT. - LOW PRESSURE
8	PECKS MILL POND PUMP STAT. - HIGH WATER
9	SIKORSKY PUMPING STATION - HIGH WATER
10-20	BLANK

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

STATE OF CONNECTICUT — PROFESSIONAL ENGINEER — No. 5183

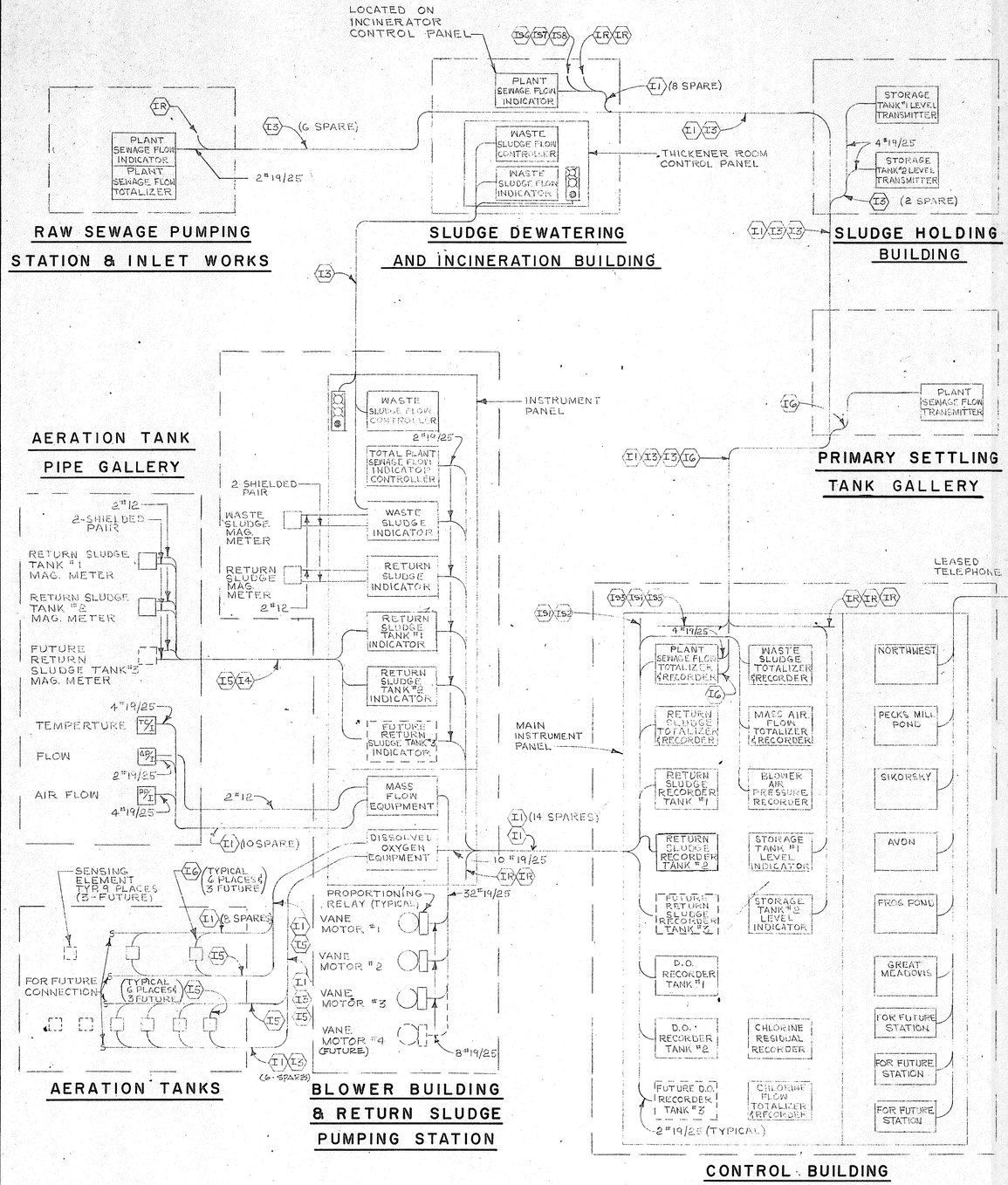
DRAWN: R. BURMAN — DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN — APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

CHARLES A. MAGUIRE & ASSOCIATES
ENGINEERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

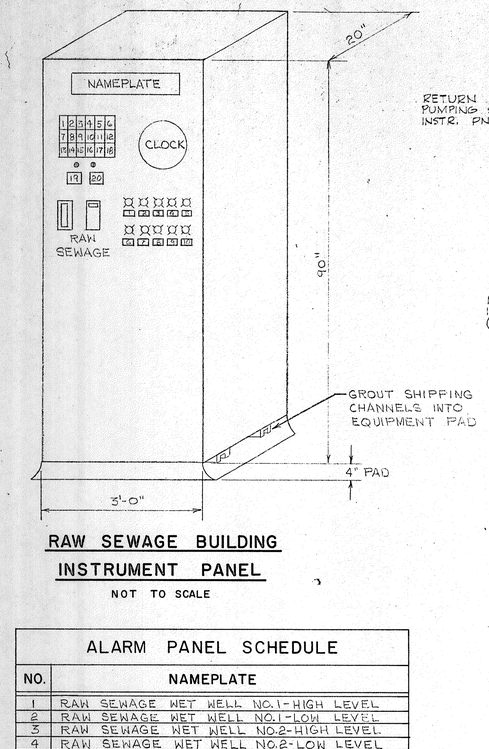
APPROVED
TOWN OF STRATFORD

TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
INSTRUMENTATION SHEET #3

SCALE 1 1/2" = 1'-0"
C. A. M. NO. 1165
DRAWING NO. 161



INSTRUMENTATION —— SINGLE LINE DIAGRAM



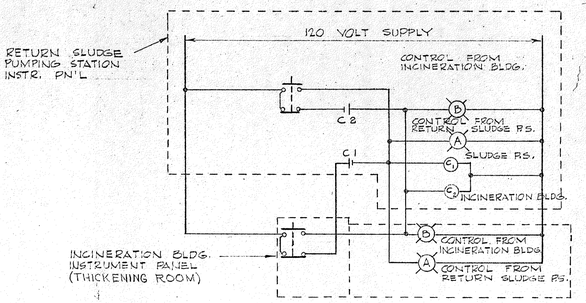
RAW SEWAGE BUILDING INSTRUMENT PANEL

NOT TO SCALE

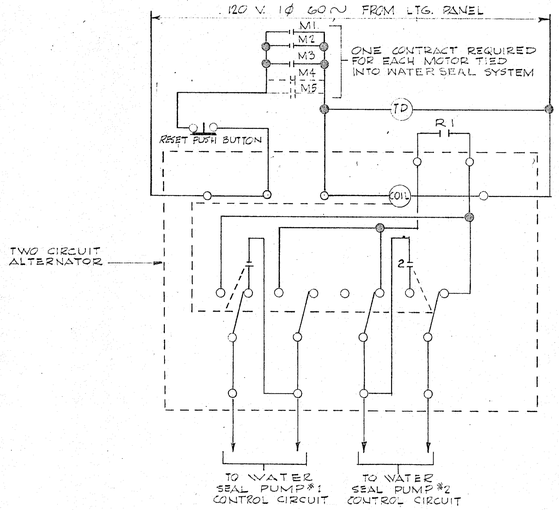
ALARM PANEL SCHEDULE	
NO.	NAMEPLATE
1	RAW SEWAGE WET WELL NO.1-HIGH LEVEL
2	RAW SEWAGE WET WELL NO.1-LOW LEVEL
3	RAW SEWAGE WET WELL NO.2-HIGH LEVEL
4	RAW SEWAGE WET WELL NO.2-LOW LEVEL
5	GRIT COLLECTOR NO.1- OVERLOAD
6	GRIT COLLECTOR NO.2- OVERLOAD
7	HIGH EXHAUST TEMP-AIR COMP NO.1 OR NO.2
8	WATER SEAL PUMPS
9	BLANK (SPARE)
10	BLANK (SPARE)
11	BLANK (SPARE)
12	BLANK (SPARE)
13	BLANK (SPARE)
14	BLANK (SPARE)
15	BLANK (SPARE)
16	BLANK (SPARE)
17	BLANK (SPARE)
18	BLANK (SPARE)
19	ACKNOWLEDGE
20	LAMP TEST

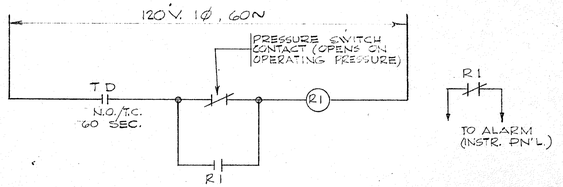
RUNNING LIGHT SCHEDULE	
NO.	NAMEPLATE
1	GENERATOR NO. 1
2	GENERATOR NO. 2
3	AIR COMPRESSOR NO. 1
4	AIR COMPRESSOR NO.2
5	WATER SEAL PUMP NO. 1 OR NO. 2
6	BLANK (SPARE)
7	BLANK (SPARE)
8	BLANK (SPARE)
9	BLANK (SPARE)
10	BLANK (SPARE)

NOTES:
1. FOR GENERAL NOTES AND LEGEND SEE DRAWING NO. 153



WASTE SLUDGE PUMPS SCHEMATIC WIRING





TYPICAL WATER SEAL PUMP CONTROL DIAGRAM

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: L. SIMONEAU — DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN — APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

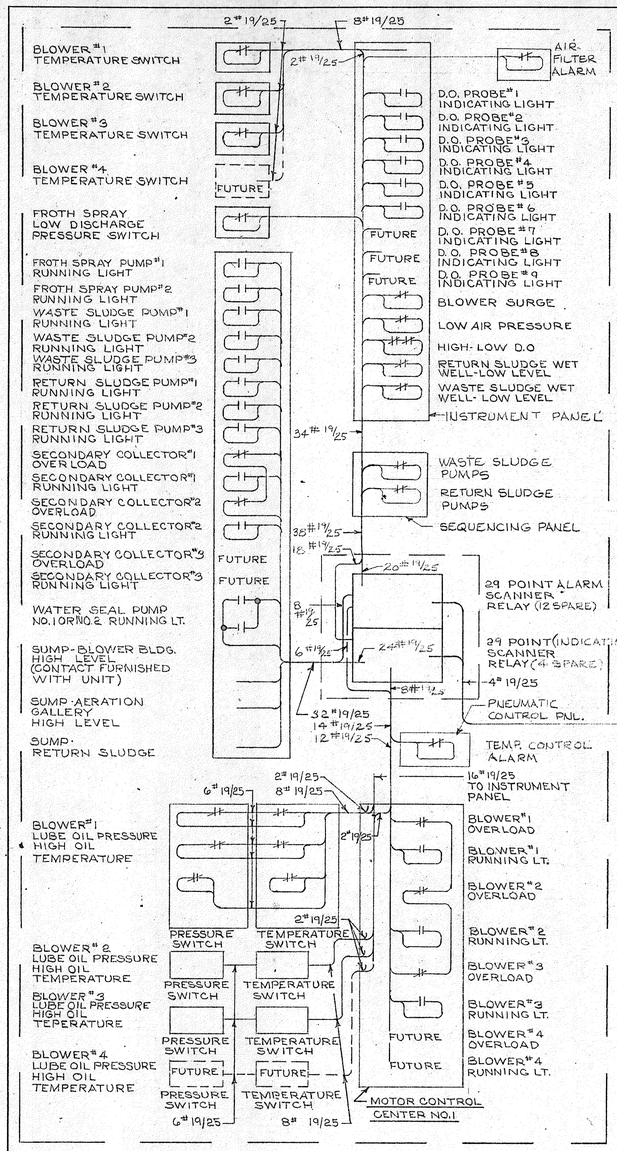
CHARLES A. MAGUIRE & ASSOCIATES ENGINEERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

APPROVED
TOWN OF STRATFORD

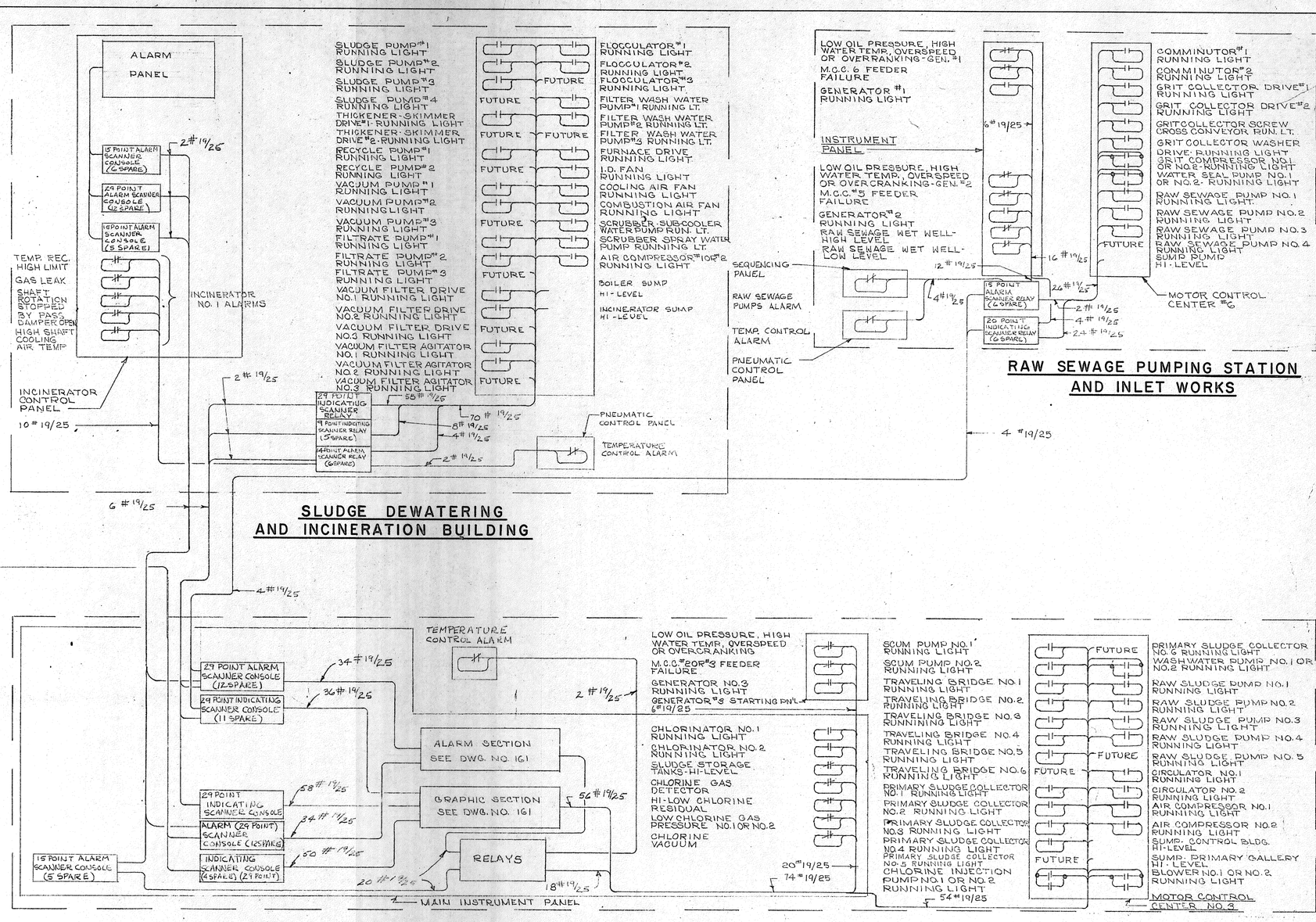
TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2

INSTRUMENTATION SHEET #4

SCALE NONE
C. A. M. NO. 1165
DRAWING NO. 162



BLOWER BUILDING & RETURN SLUDGE PUMPING STATION



SLUDGE DEWATERING AND INCINERATION BUILDING

RAW SEWAGE PUMPING STATION AND INLET WORKS

CONTROL BUILDING

NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. 133

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

STATE OF CONNECTICUT — ALBERT T. CARTER — No. 5783 — REGISTERED PROFESSIONAL ENGINEER

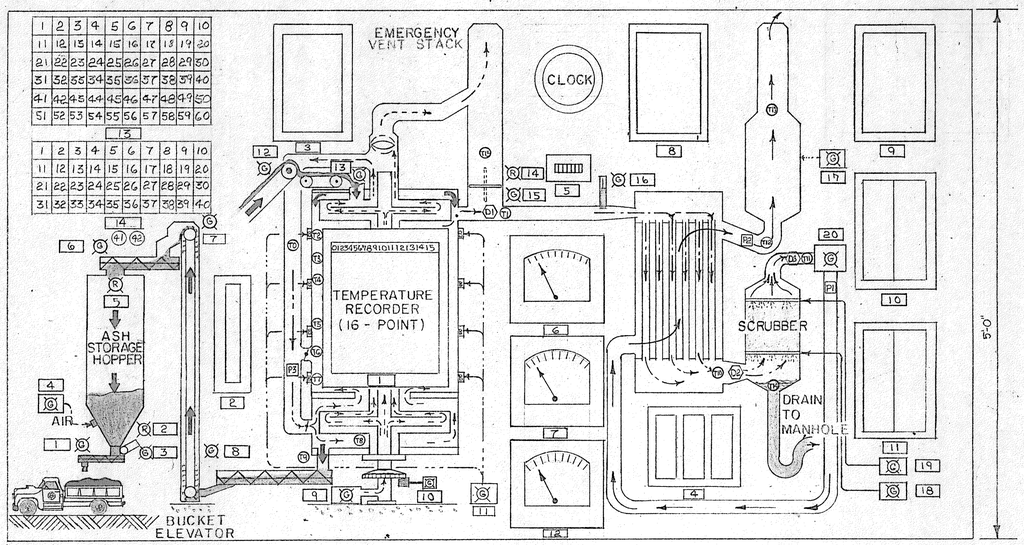
DRAWN: R. BURMAN — DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN — APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

CHARLES A. MAGUIRE & ASSOCIATES
ENGINEERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

APPROVED
TOWN OF STRATFORD

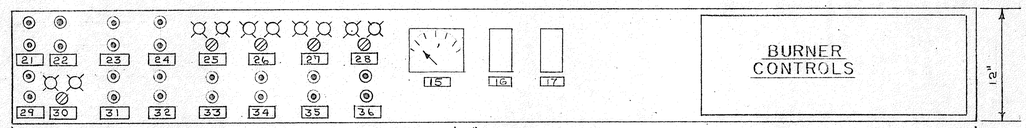
TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
INSTRUMENTATION - SHEET #5

SCALE: NOT TO SCALE
C. A. M. NO. 1165
DRAWING NO. 163



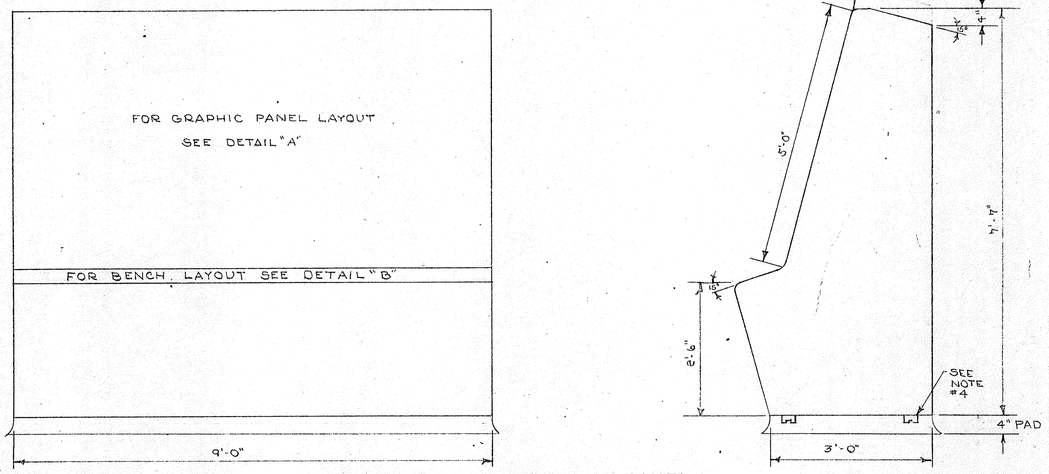
DETAIL "A"

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



DETAIL "B"

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



INCINERATOR INSTRUMENT PANEL

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

ALARM PANEL "A" SCHEDULE

NO.	NAMEPLATE
1	AIR BLOWER OVERLOAD
2	AIR BLOWER SURGE
3	AIR BLOWER-HIGH AIR TEMPERATURE
4	AIR BLOWER-LOW AIR PRESSURE
5	AIR BLOWER-LOW OIL PRESSURE OR HIGH OIL TEMPERATURE
6	HI-LOW D.O.
7	AIR FILTER
8	RAW SEWAGE PUMPS
9	WASTE SLUDGE PUMPS
10	RETURN SLUDGE PUMPS
11	RETURN SLUDGE WET WELL-LOW LEVEL
12	WASTE SLUDGE WET WELL-LOW LEVEL
13	FROTH SPRAY WATER-LOW DISCHARGE PRES.
14	SECONDARY COLLECTORS OVERLOAD
15	SLUDGE STORAGE TANKS HIGH-LOW LEVEL
16	CHLORINE GAS DETECTOR ALARM
17	LOW OR HIGH CHLORINE RESIDUAL
18	CHLORINE VACUUM
19	LOW CHLORINE GAS PRESSURE NO. 1 OR NO. 2
20	HIGH LEVEL RAW SEWAGE PUMPS-WET WELL
21	LOW LEVEL RAW SEWAGE PUMPS-WET WELL
22	SUMP PUMPS-HIGH LEVEL (INLET WORKS)
23	SUMP PUMPS-HIGH LEVEL (SLUDGE DEWATERING)
24	SUMP PUMPS-HIGH LEVEL (BOILER ROOM)
25	SUMP PUMPS-HIGH LEVEL (CONTROL BLDG)
26	SUMP PUMPS-HIGH LEVEL (AERATION GALLERY)
27	SUMP PUMPS-HIGH LEVEL (PRIMARY GALLERY)
28	SUMP PUMPS-HIGH LEVEL (BLOWER BLDG.)
29	SUMP PUMPS-HIGH LEVEL (RETURN SLUDGE)
30	POWER FAILURE FEEDER MCC 2 & 3
31	POWER FAILURE FEEDER MCC 5
32	POWER FAILURE FEEDER MCC 6
33	GENERATOR #1
34	GENERATOR #2
35	GENERATOR #3
36	BLOWER BLDG. - TEMP. CONTROL
37	RAW SEWAGE BLDG.-TEMP. CONTROL
38	INCINERATION BLDG.-TEMP. CONTROL
39	CONTROL BLDG.- TEMP. CONTROL
40	VACUUM & FILTRATE PUMPS-WATER SEAL UNIT
41	BLANK (SPARE)
42	BLANK (SPARE)
43	BLANK (SPARE)
44-50	BLANKS (SPARES)
51	AVON PUMPING STATION-HIGH WATER
52	FROG POND PUMPING STATION-HIGH WATER
53	GREAT MEADOWS PUMPING STATION-HIGH WATER
54	LONG BROOK PUMPING STATION-HIGH WATER
55	NORTHWEST PUMPING STATION-HIGH WATER
56	NORTHWEST PUMPING STATION-POWER FAILURE
57	RACHEL LANE PUMPING STATION-HIGH WATER
58	PECK'S MILL POND PUMPING STATION-HIGH WATER
59	SIKORSKY PUMPING STATION-HIGH WATER
60	BLANK (SPARE)

ALARM PANEL "B" SCHEDULE

NO.	NAMEPLATE
1	HIGH TEMPERATURE BREECHING
2	HIGH TEMPERATURE HEARTH #4
3	HIGH TEMPERATURE INDUCED DRAFT FAN
4	HIGH TEMPERATURE AFTERBURNER
5	HIGH SCRUBBER WASTE WATER TEMPERATURE
6	LOW BREECHING DRAFT
7	LOW AIR PRESSURE-CAKE COMBUSTION AIR
8	LOW PRESSURE AUX. FUEL COMBUSTION AIR
9	LOW PRESSURE SCRUBBER SPRAY WATER
10	LOW INDUCED DRAFT SCRUBBER SUB COOLER WATER FLOW
11	HIGH PRESSURE INDUCED DRAFT FAN
12	HIGH SHAFT COOLING AIR TEMPERATURE
13	HIGH RINGLEMANN (SMOKE)
14	EMERGENCY STACK BYPASS DAMPER OPEN
15	SHAFT ROTATION STOPPED
16	LOW SHAFT AIR PRESSURE
17	FLAME FAILURE #2L
18	FLAME FAILURE #2R
19	FLAME FAILURE #4L
20	FLAME FAILURE #4R
21	FLAME FAILURE #5 (SCUM BURNER)
22	FLAME FAILURE #6L
23	FLAME FAILURE #6R
24	FLAME FAILURE #7L
25	FLAME FAILURE #7R
26	GAS LEAK ALARM
27	HIGH ASH LEVEL-STORAGE HOPPER
28	LOW PRESSURE-COMPRESSED AIR TANK
29	TEMPERATURE RECORDER-HIGH LIMIT
30	BLANK (SPARE)
31	BLANK (SPARE)
32	BLANK (SPARE)
33	BLANK (SPARE)
34	BLANK (SPARE)
35	BLANK (SPARE)
36	BLANK (SPARE)
37	BLANK (SPARE)
38	BLANK (SPARE)
39	BLANK (SPARE)
40	BLANK (SPARE)
41	LAMP TEST
42	ACKNOWLEDGE

INDICATING AND CONTROL SCHEDULE

NO.	NAMEPLATE
1.	ASH UNLOADING CONVEYOR
2.	SLIDEGATE - OPEN
3.	SLIDEGATE - CLOSED
4.	PULSATING DAMPERS
5.	HI-LEVEL
6.	UPPER SCREW CONVEYOR
7.	BUCKET ELEVATOR
8.	LOWER SCREW CONVEYOR
9.	COOLING AIR FAN
10.	FURNACE DRIVE
11.	COMBUSTION AIR FAN
12.	CONVEYOR #3
13.	CONVEYOR #4
14.	BY-PASS DAMPER - OPEN
15.	BY-PASS DAMPER - CLOSED
16.	GUILLOTINE DAMPER - OPEN
17.	AFTERBURNER
18.	SCRUBBER SPRAY WATER PUMP
19.	SCRUBBER SUB COOLER PUMP
20.	I.D. FAN
21.	FURNACE DRIVE
22.	COOLING AIR FAN
23.	COMBUSTION AIR FAN
24.	I.D. FAN
25.	SCRUBBER SUB COOLER PUMP
26.	SCRUBBER SPRAY WATER PUMP
27.	AIR COMPRESSOR #1
28.	AIR COMPRESSOR #2
29.	GUILOTINE DAMPER
30.	AFTERBURNER
31.	CONVEYOR #3
32.	CONVEYOR #4
33.	LOWER SCREW CONVEYOR
34.	BUCKET ELEVATOR
35.	UPPER SCREW CONVEYOR
36.	ASH UNLOADING CONVEYOR

INSTRUMENT SCHEDULE

NO.	NAMEPLATE
1.	TEMPERATURE RECORDER
2.	PRESSURE INDICATOR - P3
3.	O_2 CONTROLLER - RECORDER
4.	DRAFT INDICATOR - D1, D2, D3
5.	GUILLOTINE DAMPER POSITION INDICATOR
6.	HEARTH #1 - TEMPERATURE CONTROLLER
7.	HEARTH #4 - TEMPERATURE CONTROLLER
8.	SMOKE RECORDER
9.	GAS AFTERBURNER RECORDER
10.	PRESSURE INDICATOR - P1, P2
11.	SCRUBBER WATER FLOW INDICATOR
12.	HEARTH-TEMPERATURE CONTROLLER
13.	ALARM PANEL "A"
14.	ALARM PANEL "B"
15.	CENTER SHAFT SPEED INDICATOR
16.	FILTER SCALE INDICATOR
17.	SEWAGE FLOW INDICATOR

SYMBOLS AND LEGEND

- SLUDGE CAKE
- ASH
- COMBUSTION AIR
- RETURN COMBUSTION AIR
- COOLING AIR
- SMOKE
- CLEAN AIR
- [B] AUXILIARY GAS/OIL BURNER
- (D) DRAFT MEASUREMENT LOCATIONS
- [P] PRESSURE MEASUREMENT LOCATIONS

SYMBOLS AND LEGEND (CONT.)

- (T) TEMPERATURE MEASUREMENT LOCATIONS (THERMOCOUPLES)
- INDICATING LIGHT
- PUSHBUTTON WITH LIGHT
- HAND-OFF AUTOMATIC SELECTOR SWITCH
- [I] NAMEPLATE

NOTES:

1. FOR GENERAL NOTES & LEGEND, SEE DWG. NO. NO. 153
2. FOR INSTRUMENT PANEL LOCATION, SEE DWG. NO. 155
3. ALL DIMENSIONS SHOWN ARE APPROXIMATE
4. SHIPPING CHANNELS SHALL BE GROUTED INTO EQUIPMENT PAD

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

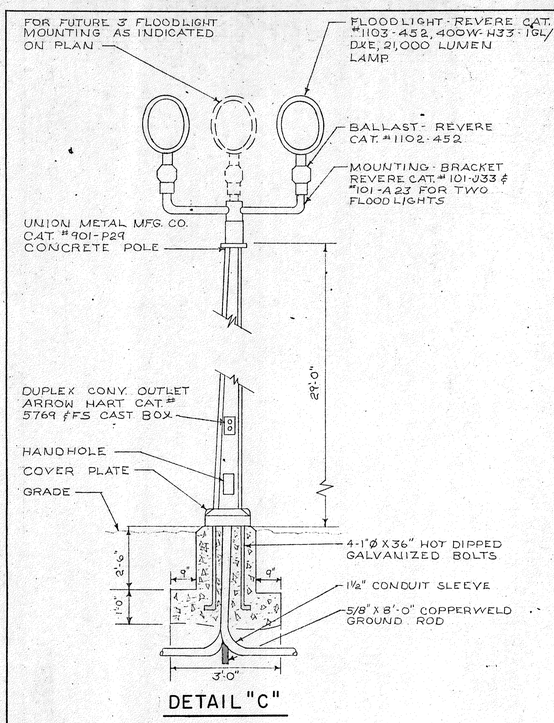
DRAWN: R. BURMAN DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

CHARLES A. MAGUIRE & ASSOCIATES
ENGINEERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. BOSTON, MASS.

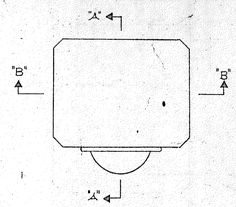
APPROVED
TOWN OF STRATFORD

TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
INSTRUMENTATION SHEET #6

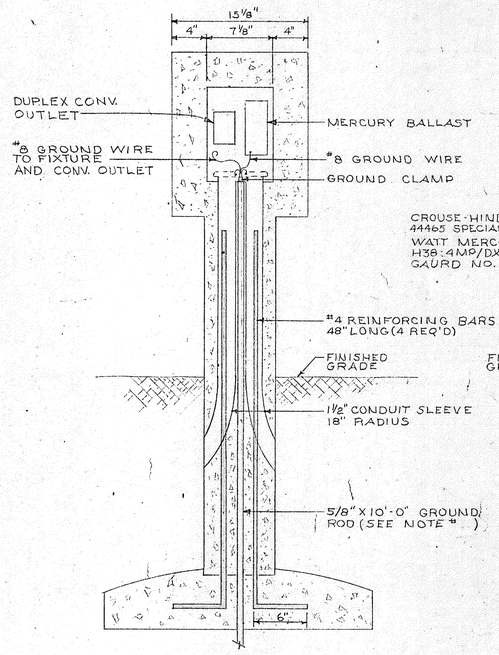
SCALE: AS NOTED
C. A. M. NO. 1165
DRAWING NO. 164



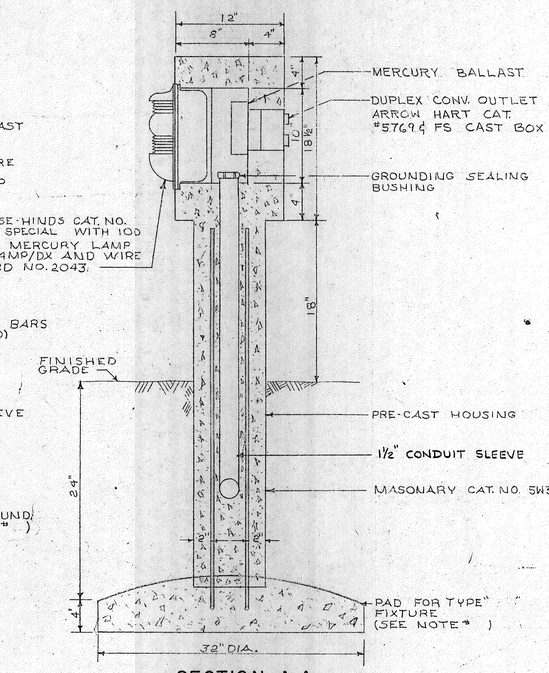
DETAIL "C"



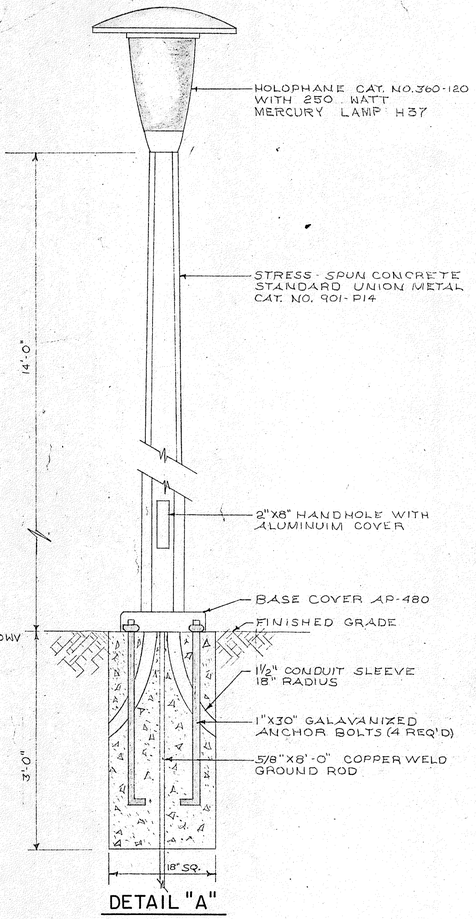
PLAN



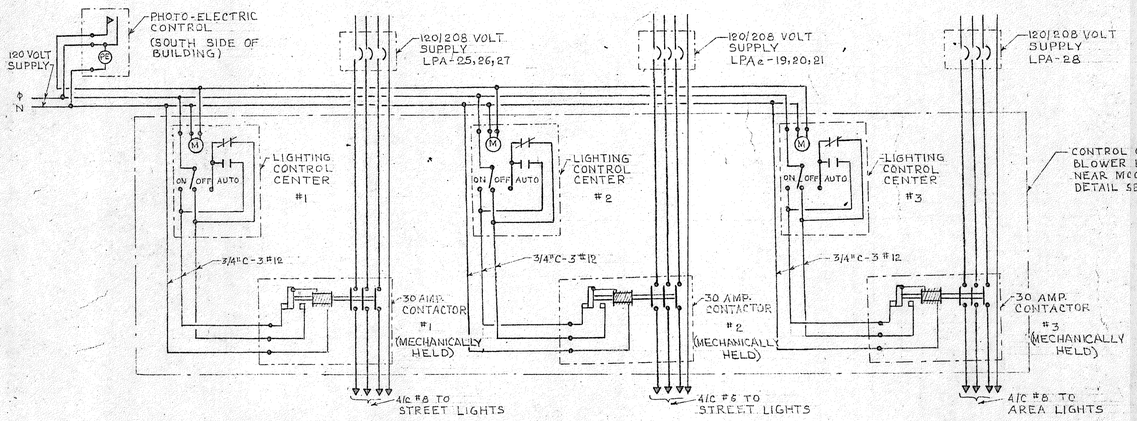
SECTION B-B



SECTION A-A

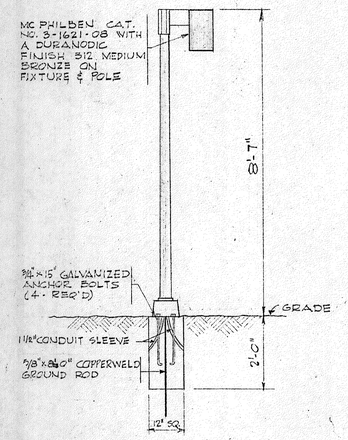


DETAIL "A"



SITE LIGHTING SYSTEM
SINGLE LINE DIAGRAM
NOT TO SCALE

DETAIL "B"



DETAIL "D"

NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE DRAWING NO. 133

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

STATE OF CONNECTICUT — PAUL T. CARLSON — No. 5389 — REGISTERED PROFESSIONAL ENGINEER

DRAWN: R. BURMAN — DESIGNED: G. GACHOWSKI
CHECKED: J. LITTLEJOHN — APPROVED: J. LITTLEJOHN
DATE: AUGUST, 1970

CHARLES A. MAGUIRE & ASSOCIATES
ENGINEERS
PROVIDENCE, R.I. — WETHERSFIELD, CONN. — BOSTON, MASS.

APPROVED
TOWN OF STRATFORD

TOWN OF STRATFORD, CONNECTICUT
SYSTEM OF SEWERS
CONTRACT NO. 2
ELECTRICAL
MISCELLANEOUS DETAILS — SHEET #2

SCALE: NO SCALE
C. A. M. NO. 1165
DRAWING NO. 165

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

CONTRACT NO. 12

19 74

ENVIRONMENTAL PROTECTION AGENCY
PROJECT NO. C-090168-01

STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION
PROJECT NO. DEP/WPC-138-501

CE MAGUIRE, INC.

ENGINEERS

WETHERSFIELD WALTHAM PROVIDENCE

PER: Vincent M. Cangiano DATE 12/16/74

INDEX

DIKE PLANS

D-1 Index Sheet
D-2 General Plan
D-3 Landscape Plan
D-4 Boring Location Plan
D-5 Site Lighting Plan
D-6 Typical Sections
D-7 thru D-8 Profiles
D-9 thru D-12 Drainage Details
D-13 thru D-14 Miscellaneous Details
D-15 thru D-35 Cross Sections

PUMP STATION AND APPURTENANCES

HYDRAULICS

H-1 Yard Piping - Endwall
H-2 Hydraulic Profile & Diversion Chamber Details
H-3 thru H-4 Plan and Sections
H-5 Plant Effluent 54" Pipe

STRUCTURAL

S-1 Typical Details
S-2 thru S-4 Pump Station
S-5 Diversion Chambers

ARCHITECTURAL

A-1 Floor Plan and Elevations
A-2 Sections and Details

MECHANICAL

M-1 Heating & Ventilation — Plumbing

ELECTRICAL

E-1 Electrical Site Plan
E-2 Power Plan and Details
E-3 Lighting Plans
E-4 Motor Control Diagram
E-5 Power Plans and Miscellaneous Details

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: K.R.W.
DRAWN BY: C.M.B.
CHECKED BY: P.O.T.
SCALE
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
DATE

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT

INDEX SHEET

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-1

CENTER LINE CURVE DATA				
CURVE#	Δ	R	T	L
1	50°-00'-00"	291.68'	136.01'	254.54'
2	43°-00'-00"	320.00'	126.05'	240.16'
3	21°-20'-00"	320.00'	60.27'	119.15'
4	120°-57'-50.3"	100.00'	176.62'	211.12'
5	06°-22'-58.5"	960.00'	53.52'	106.92'
6	42°-06'-11.5"	100.00'	38.49'	73.48'
7	38°-46'-54.1"	60.00'	21.12'	40.61'
8	90°-00'-00"	10.00'	10.00'	15.71'
9	63°-14'-43.7"	280.35'	176.83'	221.39'
10	4°-45'-40.9"	74.58'	47.29'	84.29'
11	91°-19'-35.1"	125.00'	127.93'	199.24'
12	30°-57'-49.6"	480.00'	132.95'	259.40'
13	29°-45'-10.3"	200.00'	53.13'	103.86'
14	65°-51'-47.4"	50.00'	33.01'	58.35'
15	96°-56'-25.7"	50.00'	55.47'	83.76'

E 496,400

N 126,400

N 126,200

N 126,000

SOUTH ROAD

NORTH ROAD

BEACON POINT ROAD

BIRDSEYE ST.

HOUSATONIC RIVER

Future Aeration Tanks

Aeration Tanks

Future Primary Settling Tanks

Primary Settling Tanks

Gallery

Blower Building & Return Pumping Station

Secondary Settling Tank

Future Secondary Settling Tank

Raw Sewage Pumping Station & Inlet Works

Chlorine Contact Tank

Beacon Point Rd. Pumping Station

Health Office

Rip-Rap Protection

Toe of Slope

270' U-Drain

300'±64" R.C.P.

196' U-Drain

360' U-Drain

266' U-Drain

Install Barbed Wire On Existing Fence

Install 30' Chain Link Double Gate 6' High w/ Barbed Wire

Install 6' Chain Link Fence w/ Barbed Wire

Remove Exist. Fence

Remove Exist. Conc. Slab to be removed

*Shall be included in the Price Bid for Earth Excavation.

Limit of Construction Sta 1+00 to Meet Exist. Pavement

New Driveway Opening, Location to be Determined in the Field

Begin BCLC

End BCLC

Meet Existing Pavement

Meet Exist. Fence

Meet Rip Rap Ditch

Toe of Dike Sta 14+08.84 to Dike Sta 15+48.51 (104.ft.)

Remove Exist. C.B.

Remove Exist. Inlet

Remove Exist. Tidal Gate Structure

Remove Exist. Pipe

Remove Exist. Fence

Remove Exist. Concrete Slab

Remove Exist. Metal Railing

Remove Exist. Tide Gate

Remove Exist. Chain Link Fence

Remove Exist. Bollards

Remove Exist. Guide Rail

Remove Exist. Pavement

Remove Exist. Sidewalk

Remove Exist. Curb

Remove Exist. Manhole

Remove Exist. Catch Basin

Remove Exist. Hydrant

Remove Exist. Water Gate

Remove Exist. Sign

Remove Exist. Utility Pole

Remove Exist. Guy Wire

Remove Exist. Light Pole

Remove Exist. Tree

Remove Exist. Shrubs

Remove Exist. Bench

Remove Exist. Trash Can

Remove Exist. Flag Pole

Remove Exist. Flood Light

Remove Exist. Electric Box

Remove Exist. Telephone Box

Remove Exist. Gas Line

Remove Exist. Water Line

Remove Exist. Sewer Line

Remove Exist. Drain Line

Remove Exist. Electric Line

Remove Exist. Telephone Line

CURVE DATA				
CURVE NO.	Δ	R	T	L
1	50°00'00"	291.68'	136.01'	254.54'
2	43°00'00"	320.00'	126.05'	240.16'
3	15°00'00"	320.00'	60.87'	119.15'
4	100°57'50.3"	100.00'	76.42'	211.15'
5	[illegible]	[illegible]	53.59'	106.93'
6	[illegible]	[illegible]	[illegible]	[illegible]
7	58°46'54.1"	60.00'	[illegible]	[illegible]
8	[illegible]	[illegible]	10.00'	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]
13	29°46'10.3"	200.00	53.13'	103.86'
14	66°51'47.4"	50.00	33.01'	58.36'
15	95°56'25.7"	50.00	55.47'	83.72'

N 166,600

N 166,200

N 166,400

E 496,000

E 496,400

E 496,100

PC Sta. 21+41.78

CURVE #12

PT Sta. 19+94.36

PT Sta. 24+01.13

24+08.86 Dike

NORTH ROAD

PT Sta. 16+71.67

PC Sta. 13+68.53

Sludge Holding Bed (To Be Filled)

Meet Existing Pavement

Future Aeration Tanks

Future Primary Settling Tanks

Primary Settling Tanks

Gallery

Aeration Tanks

Blower Building & Return Pumping Station

Transformer

PT Sta. 12+39.07

Sludge

Gallery

Holding Tanks

Bit. Walk

Sludge Dewatering Incineration Building

Parking Lot

PT Sta. 11+35.79

J-10

Walk

Oil Tank

BCTCC

PC Sta. 11+52.51

Oil Tank

Bit Walk

Bit Walk

Bit Walk

Meet Existing Pavement

Control Building

Flag Pole

Bit. Walk

PC Sta. 11+19.96

Secondary Settling Tank

Secondary Settling Tank

Bit. Walk

EXISTING PLANTS TO REMAIN

Future Secondary Settling Tank

PT Sta. 10+43.88

PT Sta. 13+43.56

PC Sta. 12+65.27

CURVE #10

CURVE #9

Sta. 13+70 Beacon Point Rd.
Sta. 10+00 Dike
PT Sta. 10+35.71

PT Sta. 12+90.40

CURVE #1

Sta. 0+12.86

Sta. 10+20

PC Sta. 11+65.39

Sta. 15+10.59 Beacon Point Rd.
Sta. 10+00.00 North Rd.

B.C.L.C.

CURVE #2

BEACON POINT ROAD

PT Sta. 17+05.55

Toe of Slope

Sta. 20+84.00 Beacon Point Rd.
Sta. 10+00.00 Birdseye St.

Sta. 3+78.51 North Rd.
Sta. 10+00.00 Access Dr.

Sta. 2+28.37 North Rd.
Sta. 1.5+44.29 Access Dr.

PT Sta. 22+14.11

Sta. 23+16.38 North Rd.
Sta. 14+66.41 Birdseye St.

Sta. 19+75.45

PC Sta. 21+66.79

Oil Tank

Garage

Meet Exist. Pavement

Raw Sewage Pumping Station & Inlet Works

Valve Pit

PC Sta. 22+53.50

PT Sta. 14+23.39

ACCESS DRIVE

PC Sta. 15+89.67

PT Sta. 21+58.86

BIRDSEYE ST.

Bit. Walk

Chlorine Contact Tank

U/G

Toe of Slope

E-20
G-7

F-1

H-56

F-3

H-48

H-20

H-10

K-3

C1

C2

D-3

J-10

A

B

C

D

E

F

G

H

J

K

L

PLANT LIST

KEY	SCIENTIFIC NAME COMMON NAME	SIZE	NO OF STAKES	ROOT
A	GLEDITSIA TRIACANTHOS MORAINE, THORNLESS HONEY-LOCUST	2½"TO 3" CALIPER	2	B&B
B	CORNUS FLORIDA, FLOWERING DOGWOOD	6'TO 8' HT.	2	B&B
C	PICEA PUNGENS GLAUCA, BLUE COLORADO SPRUCE	8'TO 10' HT.	2	B&B
D	PINUS NIGRA, AUSTRIAN PINE	6'TO 8' HT.	2	B&B
E	PINUS STROBUS EASTERN WHITE PINE	8'TO 10' HT.	2	B&B
F	PINUS SYLVESTRIS, SCOTCH PINE	6'TO 8' HT.	2	B&B
G	TSUGA CANADENSIS, CANADIAN HEMLOCK	8'TO 10' HT.	2	B&B
H	THUJA OCCIDENTALIS NIGRA DARK AMERICAN ARBORVITE	5' HT.	1	B&B
J	JUNIPERUS VIRGINIANA PHILIZER JUNIPER	2'TO 3' SPREAD		B&B
K	PINUS MUGHO MUGHUS, MUGHO PINE	2'TO 3' SPREAD		B&B
L	PRUNUS MARITIMA, BEACH PLUM	3'TO 4' SPREAD		B&B

Note Topsoil areas to be stripped and stockpiled will be designated by the Engineer prior to construction

PLANT KEY

PLANTS TO BE PLANTED ARE INDICATED ON THE DRAWING BY A KEY LETTER AND A NUMBER. THE KEY LETTER REFERS TO THE PLANT LIST AND INDICATES THE KIND OF PLANT. THE NUMBER INDICATES THE QUANITY TO BE USED. WHERE THE NUMBER IS OMITTED, ONLY ONE PLANT IS TO BE PLANTED.

B & B – BALLED & BURLAPPED

2" of Gravel 6" in Depth around Indicated Structures
Material Gravel Bedding for Rip Rap
Areas to be Topsoiled and Seeded.

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: W.S.
DRAWN BY: C.M.B.
CHECKED BY: P.O.T.
CONTRACT NO. 12
SCALE 1"= 40'
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. DATE

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

LANDSCAPING PLAN

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-3

13	29°45'-10.3"	200.00'	53.19'	103.86'
14	66°51'-47.4"	50.00'	33.01'	58.35'
15	85°56'-25.7"	50.00'	55.47'	83.72'

N 165,600

N 165,200

N 164,800

N 164,400

N 164,000

N 163,600

N 163,200

N 162,800

E 496,000

E 496,400

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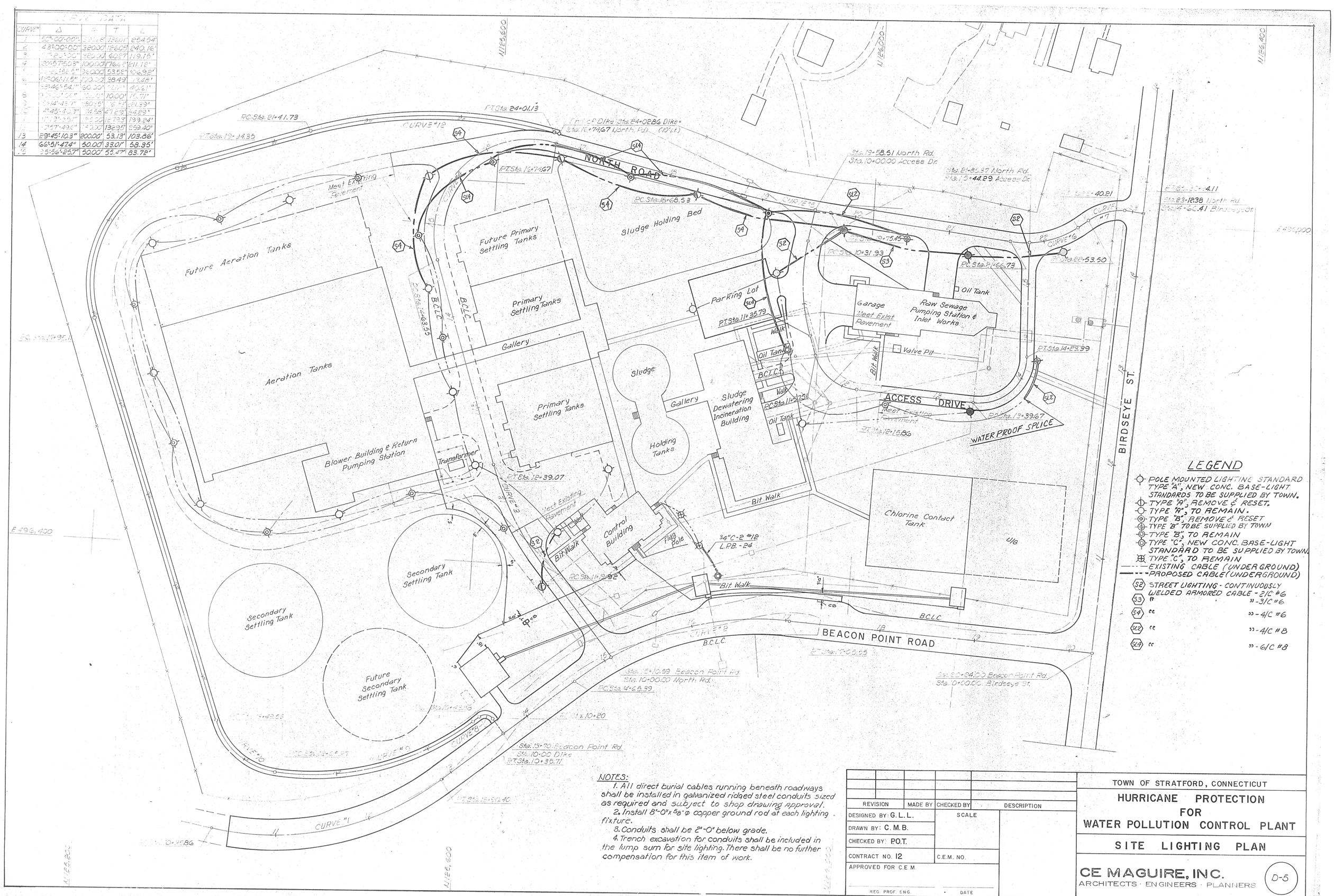
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CURVE DATA

CURVE	Δ	R	T	L
1	20°00'00"	330.18'	182.01'	364.54'
2	43°00'00"	320.00'	126.05'	240.16'
3	"R" 3°30"	920.00'	60.87'	119.75'
4	201°57'50.3"	100.00'	764.82'	611.18'
5	"R" 36°5"	30.000'	53.52'	106.92'
6	4°06'11.5"	120.00'	38.49'	13.42'
7	33°46'54.1"	60.30'	18.24'	40.61'
8	90°00'00"	10.00'	10.00'	15.71'
9	34°14'43.7"	360.55'	16.52'	21.99'
10	4°45'40.3"	14.58'	47.62'	54.89'
11	171°31'55.1"	65.00'	12.73'	193.24'
12	3°57'49.4"	1900.00'	132.96'	259.40'
13	29°45'10.3"	200.00'	53.13'	103.86'
14	66°51'47.4"	50.00'	33.01'	58.35'
15	95°56'25.7"	50.00'	55.47'	83.72'



LEGEND

- POLE MOUNTED LIGHTING STANDARD TYPE "A", NEW CONC. BASE-LIGHT STANDARDS TO BE SUPPLIED BY TOWN.
- TYPE "A", REMOVE & RESET.
- TYPE "A", TO REMAIN.
- TYPE "B", REMOVE & RESET
- TYPE "B" TO BE SUPPLIED BY TOWN
- TYPE "B", TO REMAIN
- TYPE "C", NEW CONC. BASE-LIGHT STANDARD TO BE SUPPLIED BY TOWN.
- TYPE "C", TO REMAIN
- EXISTING CABLE (UNDERGROUND)
- PROPOSED CABLE (UNDERGROUND)
- (S2) STREET LIGHTING - CONTINUOUSLY WELDED ARMORED CABLE - 2/C #6
- (S3) " " - 3/C #6
- (S4) " " - 4/C #6
- (S12) " " - 4/C #8
- (S24) " " - 6/C #8

NOTES:

1. All direct burial cables running beneath roadways shall be installed in galvanized ridged steel conduits sized as required and subject to shop drawing approval.
2. Install 8'-0" x 5/8" ø copper ground rod at each lighting fixture.
3. Conduits shall be 2'-0" below grade.
4. Trench excavation for conduits shall be included in the lump sum for site lighting. There shall be no further compensation for this item of work.

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: G.L.L.	SCALE
DRAWN BY: C.M.B.	
CHECKED BY: P.O.T.	
CONTRACT NO. 12	C.E.M. NO.
APPROVED FOR C.E.M.	
REG. PROF. ENG.	DATE

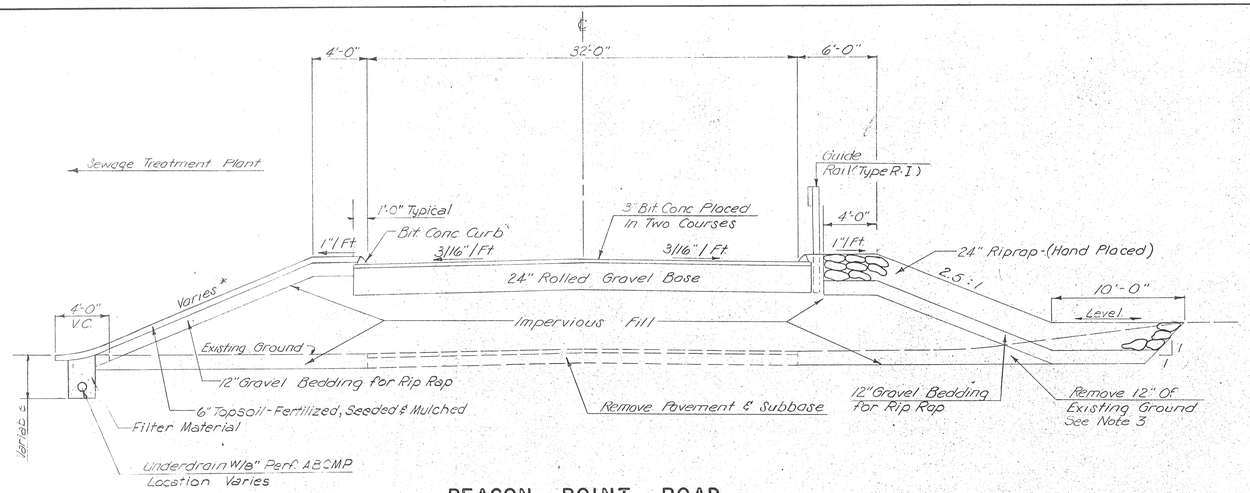
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

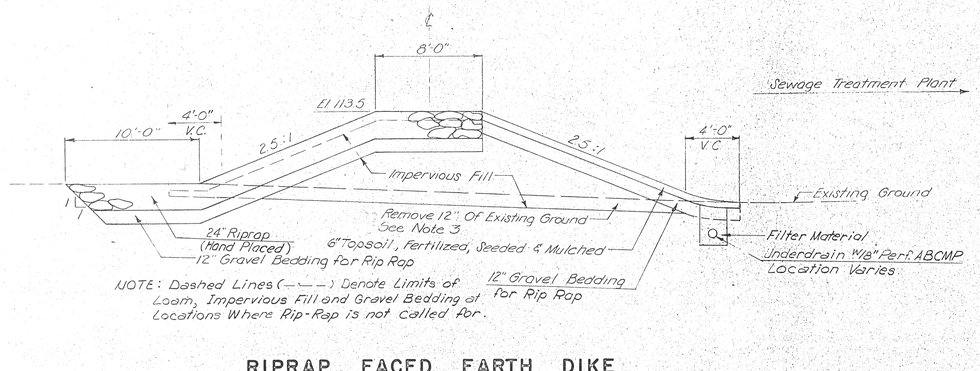
SITE LIGHTING PLAN

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-5

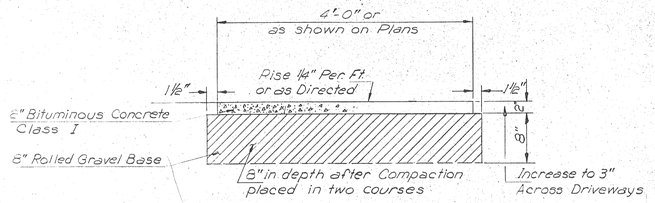


BEACON POINT ROAD
BIRDSEYE STREET
(NOT TO SCALE)

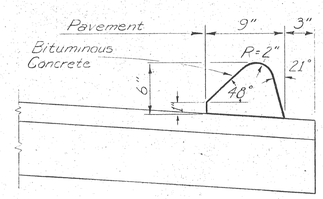


NOTE: Dashed Lines (— — —) Denote Limits of Loam, Impervious Fill and Gravel Bedding at Locations Where Rip-Rap is not called for.

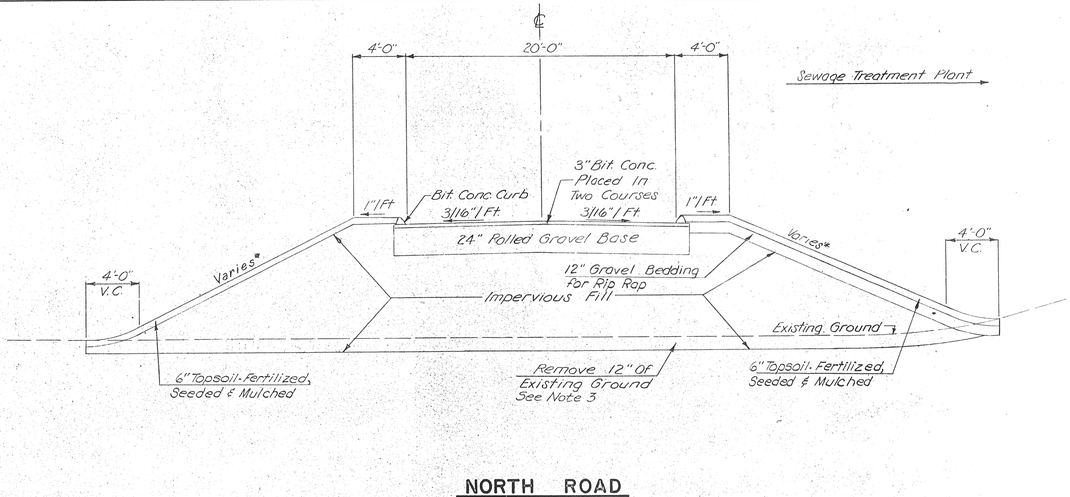
RIPRAP FACED EARTH DIKE
(NOT TO SCALE)



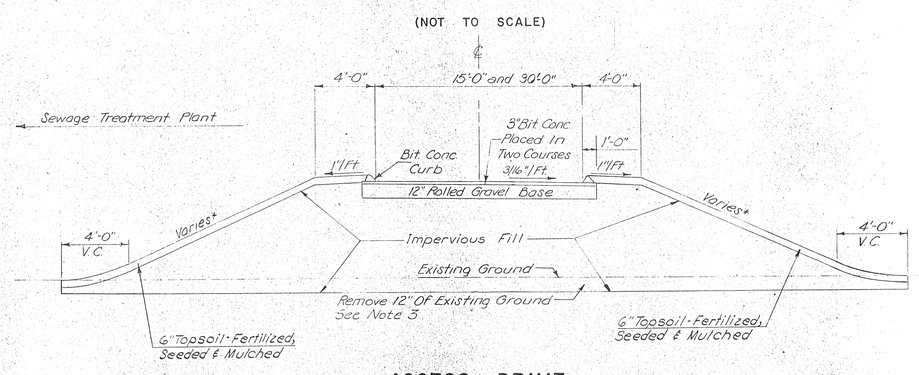
CROSS SECTION
BITUMINOUS CONCRETE SIDEWALK
(NOT TO SCALE)



CROSS SECTION
BITUMINOUS CONCRETE LIP CURBING
(NOT TO SCALE)



NORTH ROAD
(NOT TO SCALE)



ACCESS DRIVE
(NOT TO SCALE)

Notes: 1. Pavement and Base for Parking Lot Shall Conform to the Details of the Access Drive. In Addition the Parking Lot Surface Shall be Sealed as Specified in the Specifications.
2. See Profiles for Additional Limits of Impervious Fill Beyond Limits of Impervious Fill as shown on the Profiles, Normal Embankment Shall be Substituted for Impervious Fill and Gravel Bedding.
3. Topsoil shall be stripped and stockpiled prior to construction. Locations of topsoil stripping shall be designated by the Engineer.
* Max. Slope 2:1, See Cross Sections

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: J.D.B.
DRAWN BY: A.J.K.
CHECKED BY: P.O.T.
SCALE: As Shown
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. ____ DATE ____

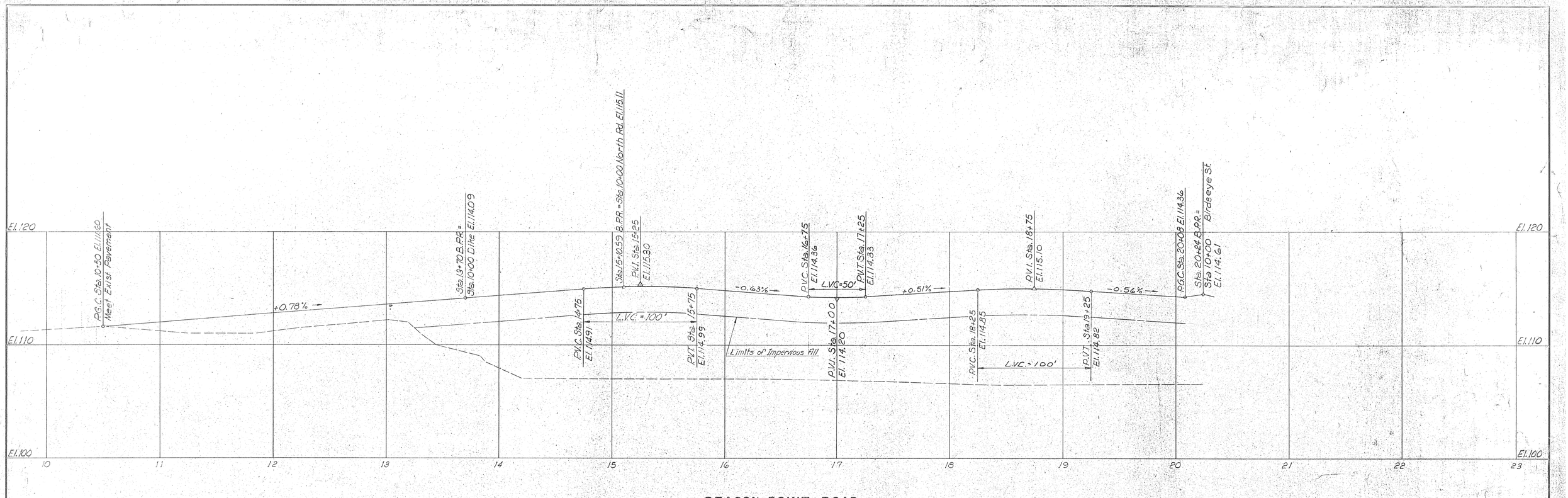
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

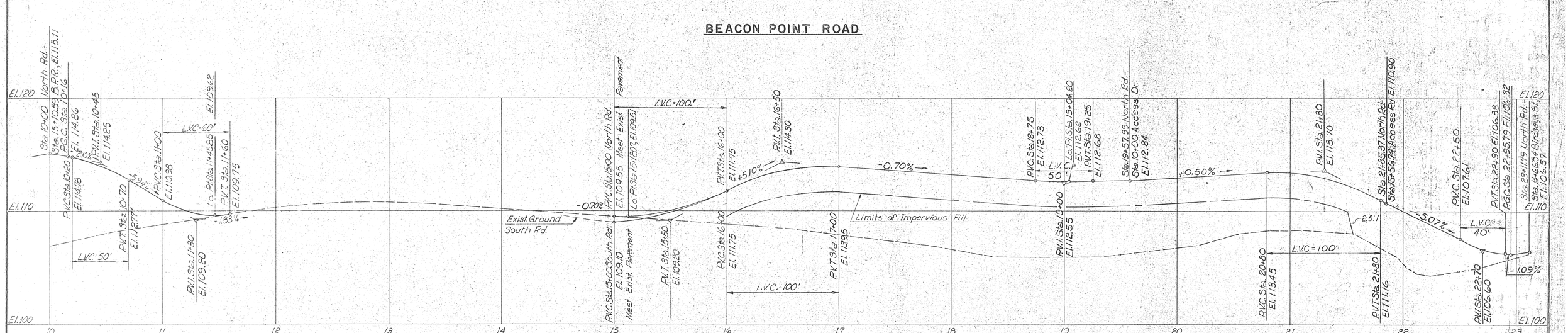
TYPICAL SECTIONS

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-6



BEACON POINT ROAD



NORTH ROAD

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: J.D.B.
DRAWN BY: C.M.B.
CHECKED BY: P.O.T.
CONTRACT NO. 12
SCALE: Horiz. 1"= 40' Vert. 1"= 4'
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. _____ DATE _____

TOWN OF STRATFORD, CONNECTICUT

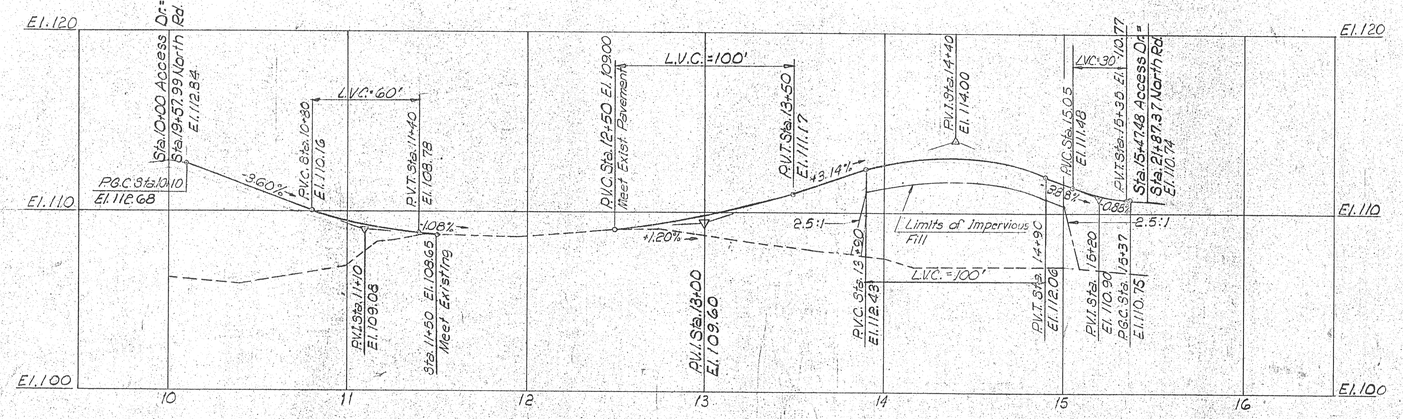
HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

PROFILES

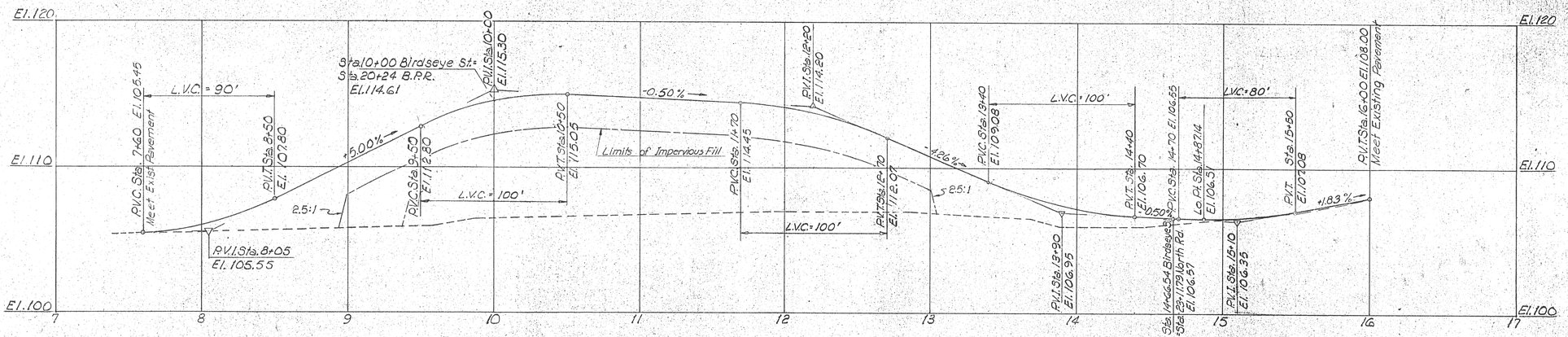
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-7

The Draftboard, Inc.



ACCESS DRIVE



BIRDSEYE STREET

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: J.D.B.	SCALE
DRAWN BY: C.M.B.	Horiz. 1"= 40'
CHECKED BY: P.O.T.	Vert. 1"= 4 '
CONTRACT NO. 12	C.E.M. NO. 1912
APPROVED FOR C.E.M.	
REG. PROF. ENG.	DATE

TOWN OF STRATFORD, CONNECTICUT

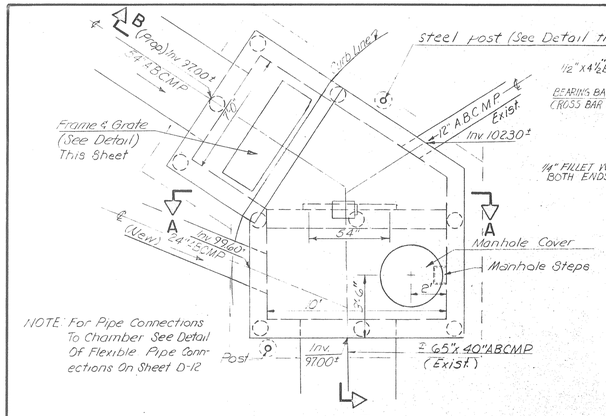
HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

PROFILES

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-1

This Drafthoard, Inc.



DIVERSION CHAMBER "C"

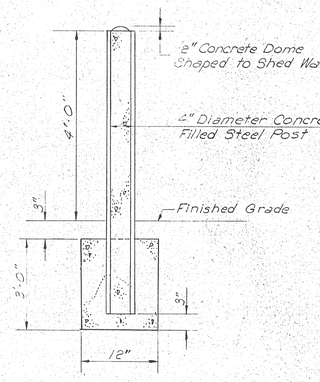
PLAN

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

FOR STRUCTURAL DETAILS OF CHAMBER "C" SEE SHEET S-1

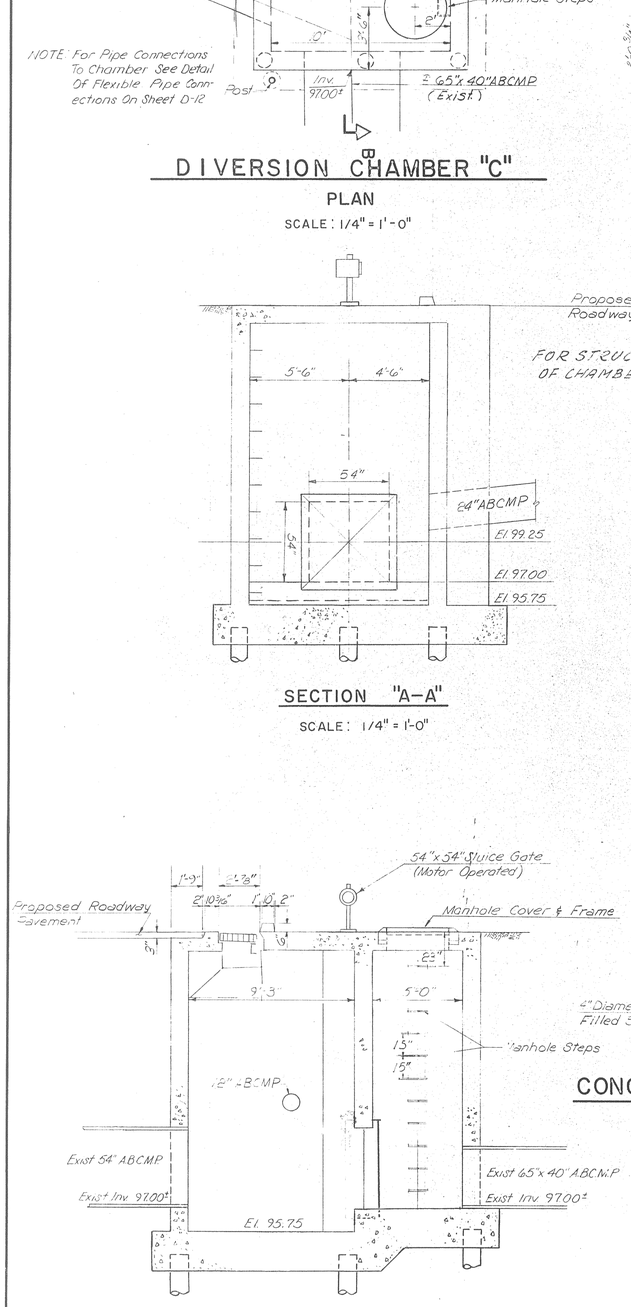
SECTION "A-A"

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



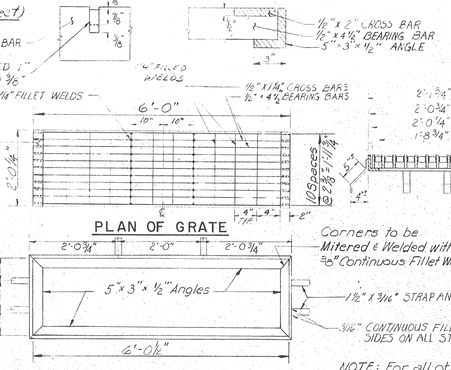
SECTION E-E

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



SECTION "B-B"

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



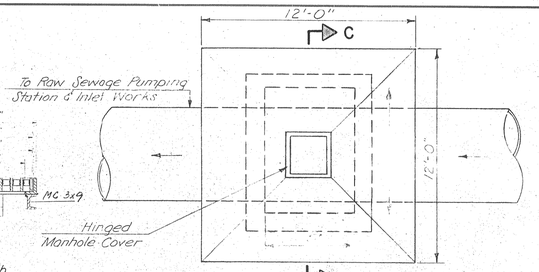
PLAN OF GRATE

PLAN OF FRAME

Corners to be Mitered & Welded with 3/8" Continuous Fillet Weld

FRAME AND GRATE FOR TIDAL GATE STRUCTURE

NOT TO SCALE



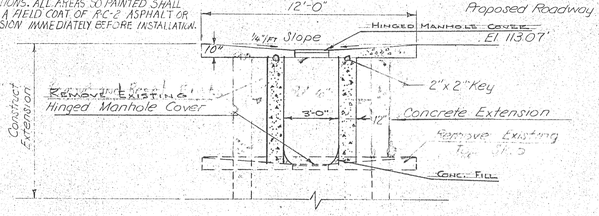
PLAN

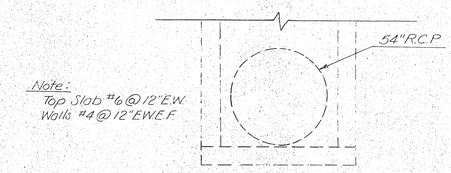
SCALE: 1/4" = 1'-0"

NOTE: TOP SLAB #6 @ 12 E.W. WALLS . #4 @ 12 E.W.E.F.

NOTE: For all other details, dimensions, and notes refer to Sheet D-10

PAINTING: FRAME AND GRATE SHALL BE PAINTED ONE SHOP COAT OF RED LEAD PAINT CONFORMING TO SPECIFICATIONS. ALL AREAS SO PAINTED SHALL BE GIVEN A FIELD COAT OF AC-2 ASPHALT OR SS-1 EMULSION IMMEDIATELY BEFORE INSTALLATION.



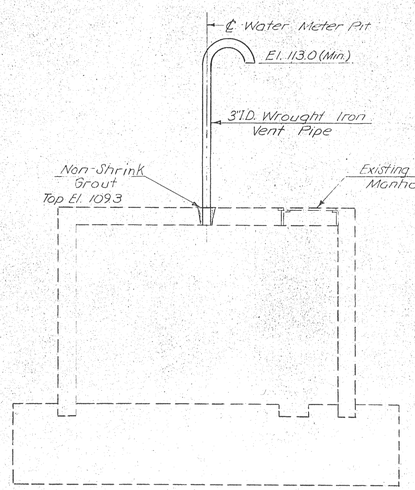


Note: Top Slab #6 @ 12" E.W. Walls #4 @ 12" E.W.E.F.

SECTION "C-C"

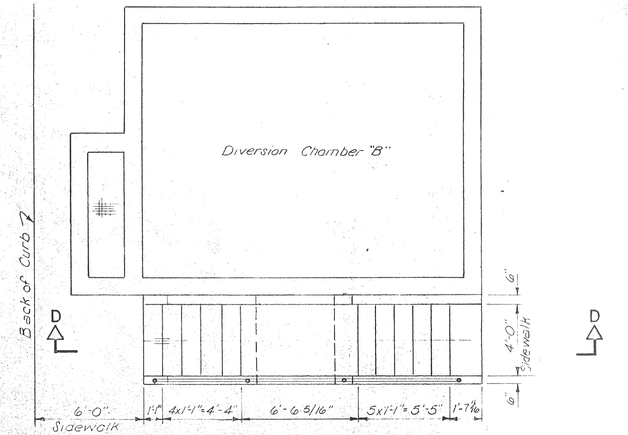
SCALE: 1/4" = 1'-0"

SEPTIC TANK DISPOSAL MANHOLE #1



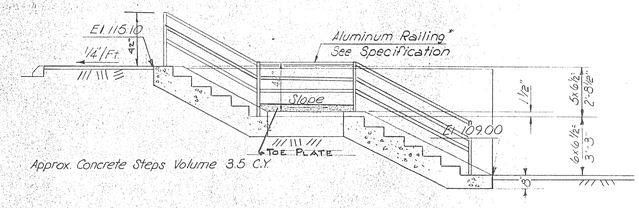
WATER METER PIT VENT

NOT TO SCALE



PLAN

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



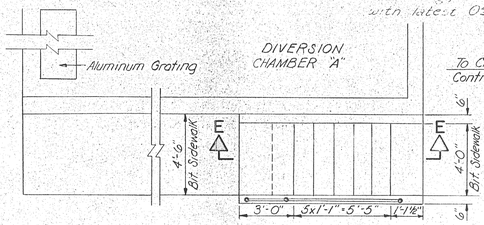
Approx. Concrete Steps Volume 3.5 C.Y.

CONCRETE STEPS AT DIVERSION CHAMBER "B"

SECTION "D-D"

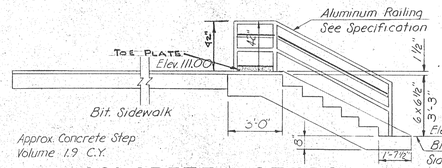
SCALE: 1/4" = 1'-0"

*Note: All railing, interior & exterior, shall comply with latest OSHA requirements



PLAN

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

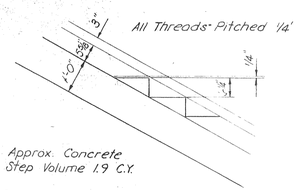


Approx. Concrete Step Volume 1.9 C.Y.

CONCRETE STEPS AT DIVERSION CHAMBER "A"

SECTION "E-E"

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



Approx. Concrete Step Volume 1.9 C.Y.

STEP DETAIL

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

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: K.R.W.
DRAWN BY: A.J.K.
CHECKED BY: P.O.T.
CONTRACT NO. 12
SCALE: As Shown
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. — DATE

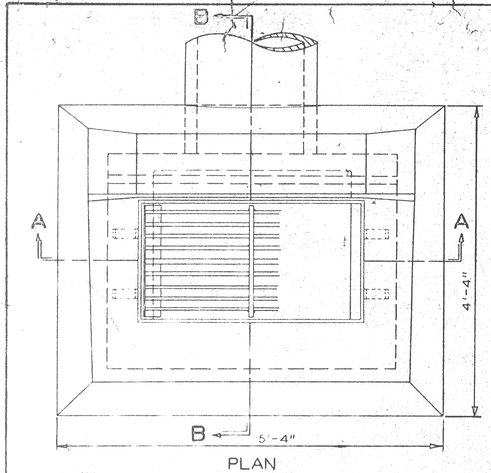
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

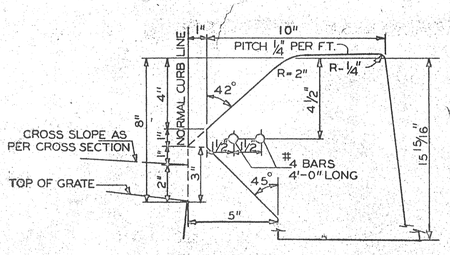
DRAINAGE DETAILS

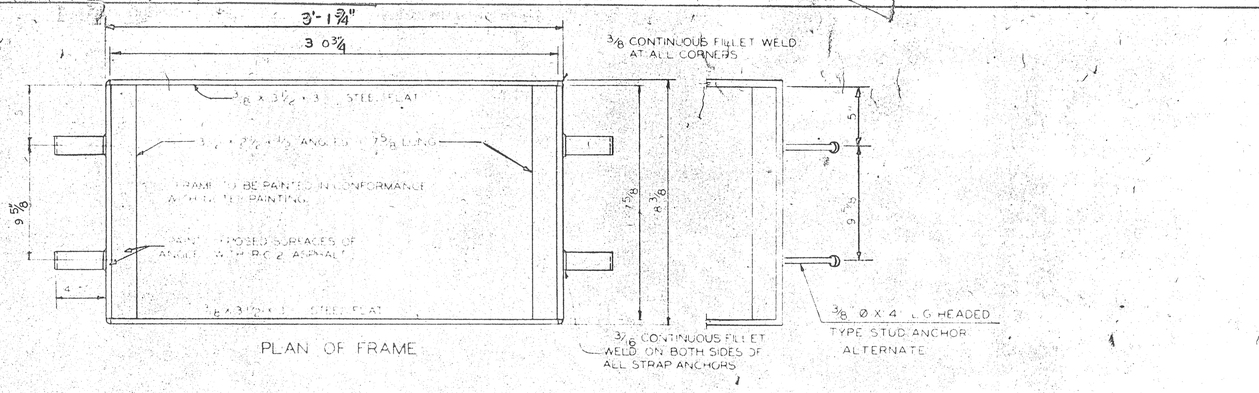
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-9

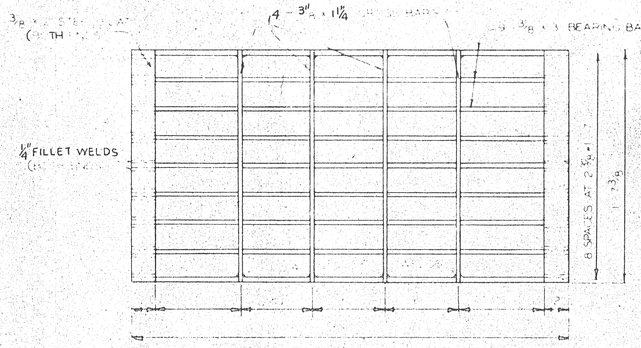


PLAN

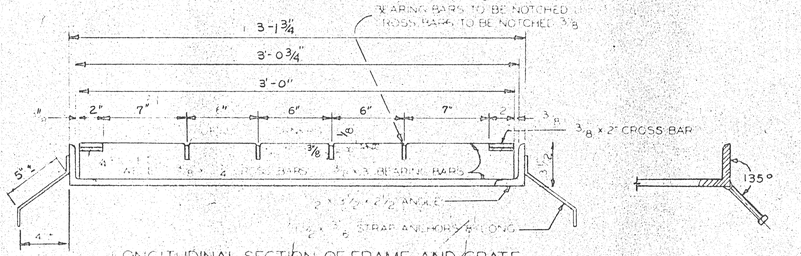




PLAN OF FRAME

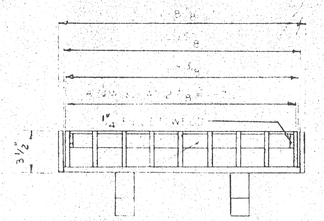


PLAN OF GRATE



LONGITUDINAL SECTION OF FRAME AND GRATE

ALTERNATE ANCHOR

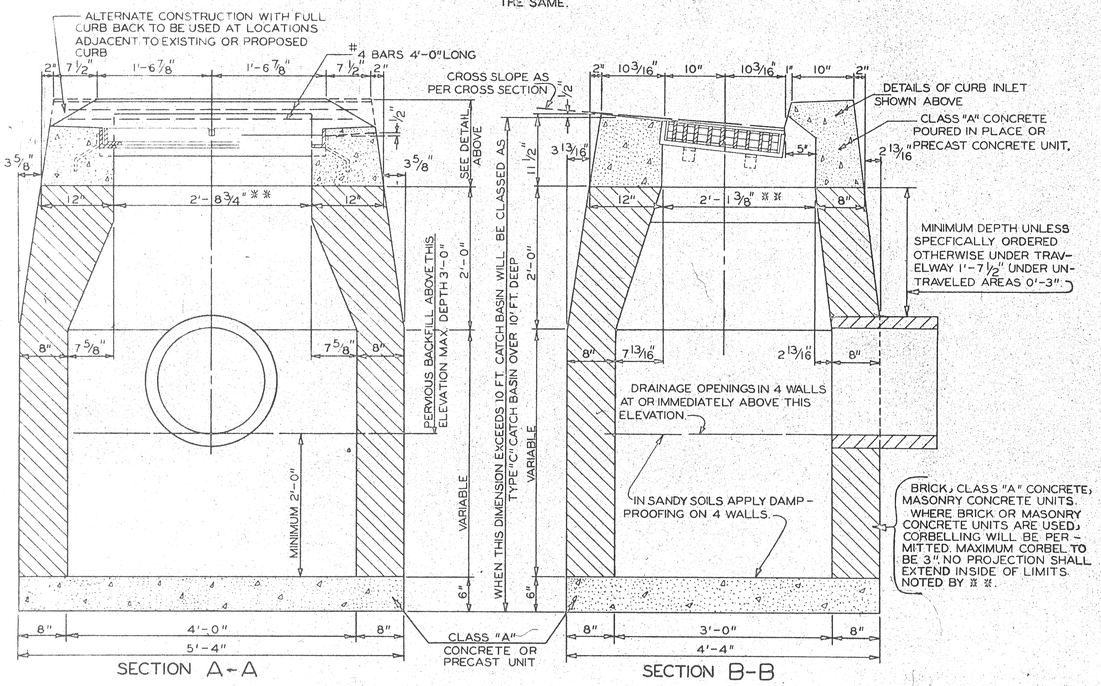


TRANSVERSE SECTION OF FRAME AND GRATE

STEEL FRAME AND GRATE

NOTE:
WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT THE 1/2" SLOPE ON THE TOP SURFACE SHALL BE CHANGED TO MATCH ADJOINING PAVEMENT.

WALLS OF ALL CATCH BASINS OVER 10 FT. DEEP TO BE INCREASED TO 12" THICKNESS. INSIDE DIMENSIONS TO REMAIN THE SAME.



WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

TYPE "C" CATCH BASIN

NOTES

STEEL

All steel to be structural grade conforming to A.S.T.M. Des. A-7, or A-283 latest issue, grade B or better, except in the chemical composition of steel, the 0.20% of copper may be omitted.

PAINTING

Where shown, frames and grates shall be painted one shop coat of red lead paint conforming to standard specifications in addition all areas so painted shall be given a field coat of R-C 2 Asphalt or SS-1 Emulsion immediately before installation.

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: R.P.W.
DRAWN BY: C.M.B.
CHECKED BY: P.O.T.
SCALE: As Shown
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. ____ DATE ____

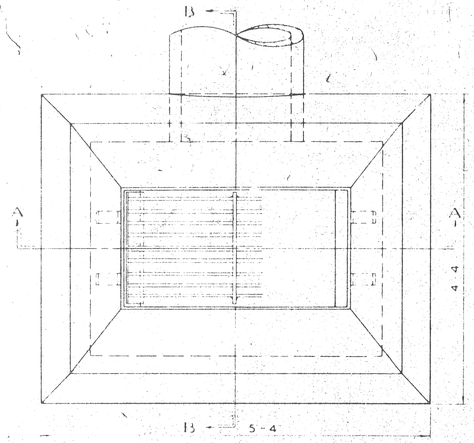
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT

DRAINAGE DETAILS

CE MAGUIRE, INC.

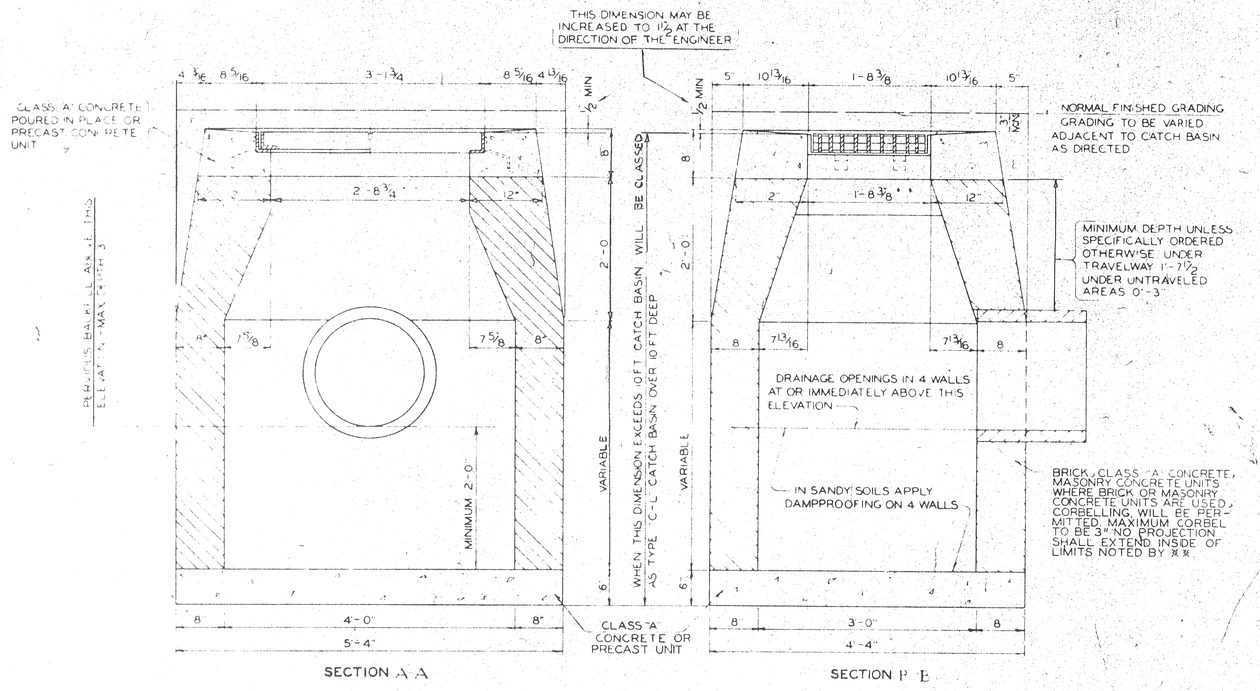
D-10



PLAN

WALLS OF ALL CATCH BASINS OVER 10FT. DEEP TO BE INCREASE TO 12" THICKNESS INSIDE DIMENSIONS TO REMAIN THE SAME.

TYPE "C-L" CATCH BASIN & TYPE "C-L" DROP INLET



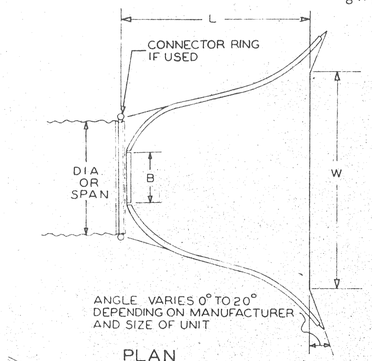
WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

TYPE "C-L" CATCH BASIN

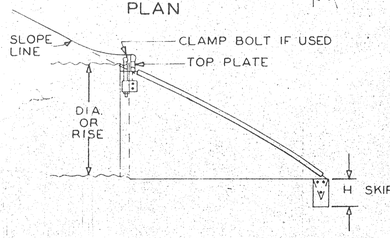
REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: K.R.W.
DRAWN BY: C.M.P.
CHECKED BY: P.O.T.
SCALE
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. DATE

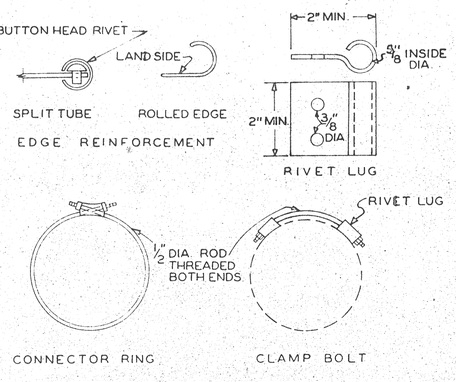
TOWN OF STRATFORD, CONNECTICUT
HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT
DRAINAGE DETAILS
CE MAGUIRE, INC.
D-11



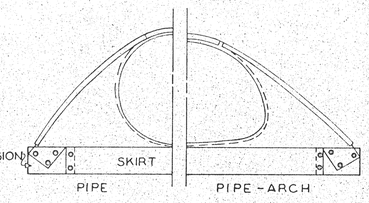
PLAN



SIDE VIEW



ATTACHMENT SYSTEMS



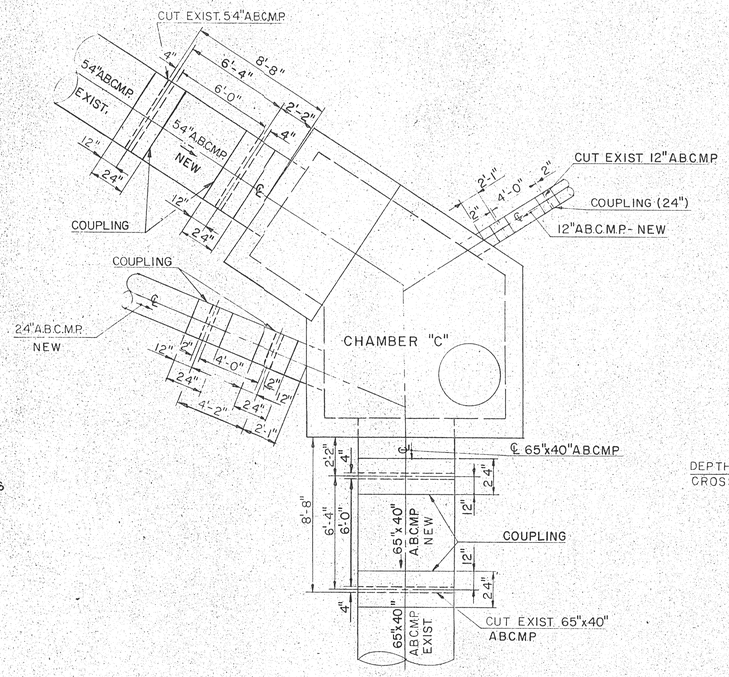
END VIEW

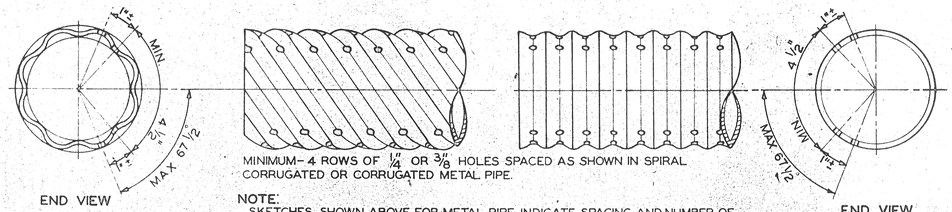
PIPE-ARCH DIA.		GAGE	DIMENSIONS			
SPAN	RISE		B (MAX.)	H (1"±)	L (1½"±)	W (2"±)
18"	11"	16	9"	6"	19"	30"
22"	13"	16	10"	6"	23"	36"
29"	18"	16	14"	6"	32"	48"
36"	22"	14	16"	6"	39"	60"
43"	27"	14	18"	8"	46"	75"
50"	31"	12	21"	9"	53"	85"
58"	36"	12	26"	12"	63"	90"
65"	40"	12	30"	12	70"	102"
72"	44"	12	33"	12	77"	114"

PIPE DIA.	GAGE	DIMENSIONS			
		B (MAX.)	H (1" ±)	L (1½"±)	W (2"±)
15"	16	8"	6"	26"	30"
18"	16	10"	6"	31"	36"
24"	16	13"	6"	41"	48"
30"	14	16"	8"	51"	60"
36"	14	19"	9"	60"	72"
42"	12	22"	11"	69"	84"
48"	12	27"	12"	78"	90"
54"	12	30"	12"	84"	102"
60"	12	33"	12"	87"	114"
72"	12	39"	12"	87"	126"
84"	12	45"	12"	87"	138"

METAL CULVERT END
ASPHALT COATED

NOTE:
ALL CORRUGATED METAL PIPE & METAL CULVERT ENDS SHALL BE ASBESTOS BONDED





NOTE: PERFORATIONS TO BE PLACED UP UNLESS OTHERWISE DIRECTED.

MINIMUM- 4 ROWS OF ¼" OR ⅜" HOLES SPACED AS SHOWN IN SPIRAL CORRUGATED OR CORRUGATED METAL PIPE.

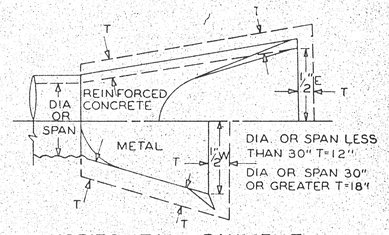
NOTE:
SKETCHES SHOWN ABOVE FOR METAL PIPE INDICATE SPACING AND NUMBER OF PERFORATIONS IN 6" DIAMETER PIPE - FOR OTHER DIAMETERS OF PIPE, HOLES WILL BE IN SIMILAR RELATIVE POSITION AND SPACED AS SHOWN IN LISTING BELOW.

NOTE: PERFORATIONS TO BE PLACED UP UNLESS OTHERWISE DIRECTED.

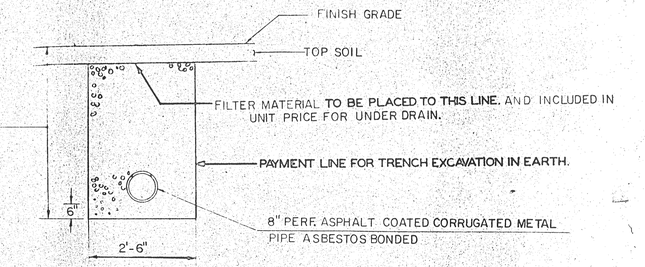
NOMINAL INTERNAL DIAMETER	GALVANIZED SHEET GAGE NUMBER	MINIMUM NUMBER OF ROWS OF PERFORATIONS	MINIMUM WIDTH OF UNPERFORATED SEGMENT
6"	18	4	4½"
8"	16	4	7"
10"	16	4	9"
12"	16	6	9½"
15"	16	6	13"
18"	16	6	16½"
21"	16	6	20"

PERFORATED ASPHALT COATED CORRUGATED METAL PIPE

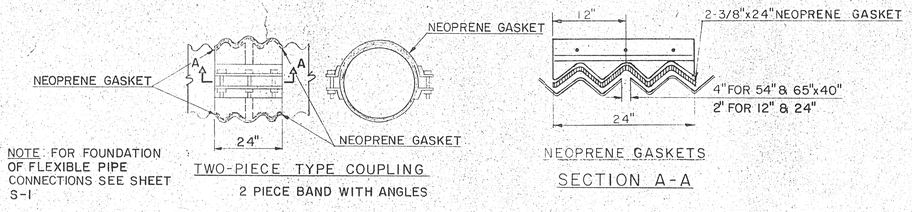
PERFORATED PIPE DETAILS



HORIZONTAL PAYMENT LIMITS FOR TRENCH EXCAVATION-CULVERT ENDS



UNDERDRAIN



NOTE: FOR FOUNDATION OF FLEXIBLE PIPE CONNECTIONS SEE SHEET S-1

TWO-PIECE TYPE COUPLING
2 PIECE BAND WITH ANGLES

NEOPRENE GASKETS
SECTION A-A

FLEXIBLE PIPE CONNECTIONS TO CHAMBER "C"

NOT TO SCALE

NO.	MADE BY	SCALE IN	DESCRIPTION
DESIGNED BY K.R.W.		SCALE	
DRAWN BY C.M.B.			
CHECKED BY P.O.T.			
CONTRACT NO 12		DRM NO.	
APPROVED FOR DEM.			

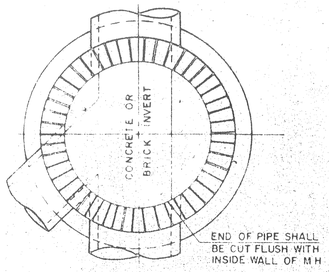
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

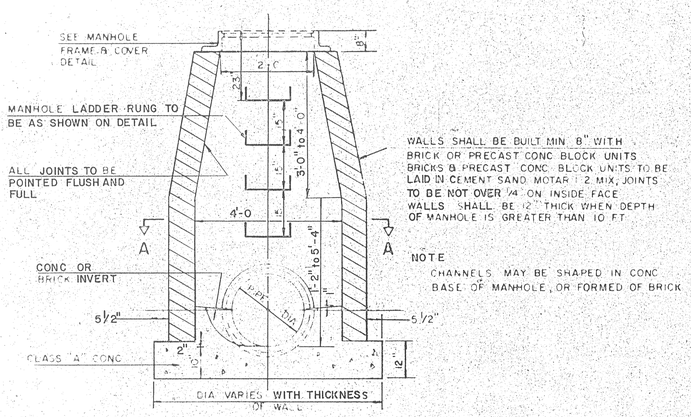
DRAINAGE DETAILS

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

D-12



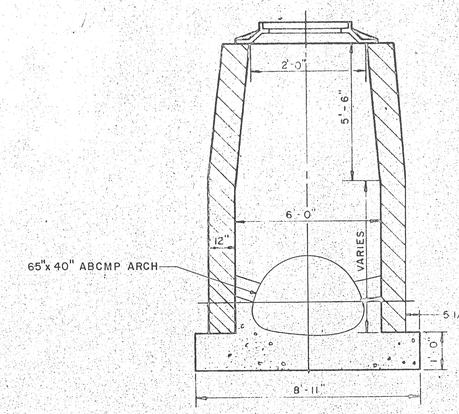
SECTION A - A



WALLS SHALL BE BUILT MIN. 8" WITH BRICK OR PRECAST CONC BLOCK UNITS. BRICKS & PRECAST CONC. BLOCK UNITS TO BE LAID IN CEMENT SAND MOTAR 1:2 MIX, JOINTS TO BE NOT OVER ¼" ON INSIDE FACE. WALLS SHALL BE 12" THICK WHEN DEPTH OF MANHOLE IS GREATER THAN 10 FT.

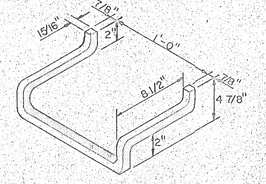
NOTE
CHANNELS MAY BE SHAPED IN CONC BASE OF MANHOLE, OR FORMED OF BRICK

MANHOLE



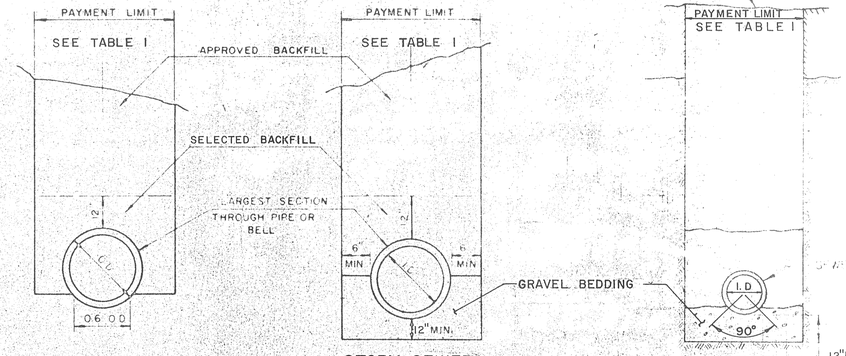
NOTE FOR FURTHER DETAILS AND MATERIALS SEE MANHOLE.
TYPE "A" MANHOLE FOR PIPE INSIDE DIAMETER 36" OR GREATER

MANHOLE
TYPE "A"



MANHOLE STEP
Forged Aluminum Safety Type Step Alloy 6061, Temper - t6

TABLE I
I.D+2' FOR PIPE UNDER 30"
I.D+3' FOR PIPE 30" & OVER
I.D= INSIDE DIAMETER
O.D.= OUTSIDE DIAMETER

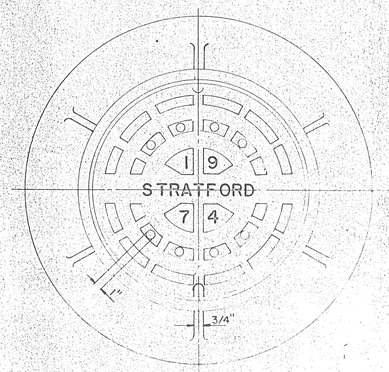


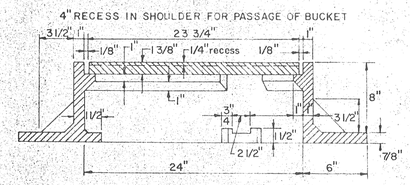
STORM SEWER

STORM SEWER WITH BEDDING MATERIAL

ROCK TRENCH

TYPICAL TRENCH AND PIPE FOUNDATION





STANDARD MANHOLE FRAME AND COVER

WATERBURY FOUNDRY CO. PATTERN NO. 3418

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY K.R.W.	SCALE
DRAWN BY G.J.Z.	NOT TO SCALE
CHECKED BY P.O.T.	
CONTRACT NO. 12	C.E.M. NO. 1912
APPROVED FOR C.E.M.	

REG. PROF. ENG.

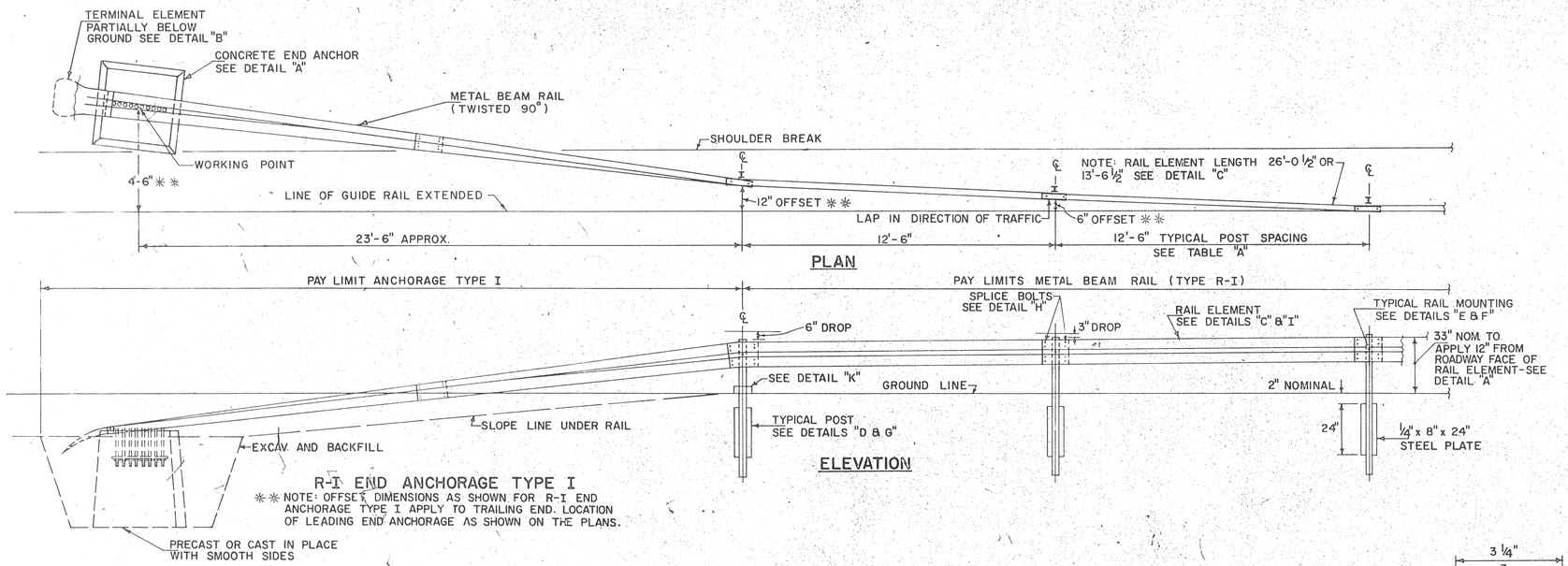
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

MISCELLANEOUS DETAILS

C.E. MAGUIRE, INC.
ARCHITECTS ENGINEERS

D-13

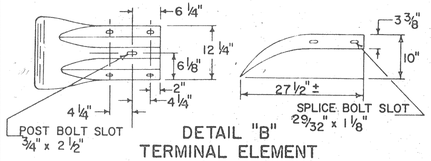


R-I END ANCHORAGE TYPE I

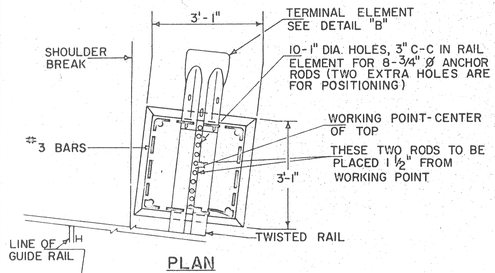
* * NOTE: OFFSET DIMENSIONS AS SHOWN FOR R-I END ANCHORAGE TYPE I APPLY TO TRAILING END. LOCATION OF LEADING END ANCHORAGE AS SHOWN ON THE PLANS.

TABLE "A"	
CURVATURE (DEG. OR RAD.)	POST SPACING
LESS THAN 26° (220 FT. RAD OR MORE)	12'-6"
219 FT. TO 111 FT. *	6'-3"
110 FT. TO 76 FT. *	4'-2"
75 FT. TO 50 FT. *	3'-1 1/2"
LESS THAN 50 FT.	NOT RECOMMENDED

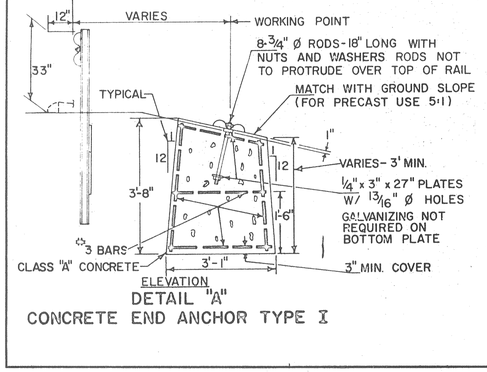
* FOR CURVES WITH RADII OF 150' OR LESS ALL RAIL MEMBERS SHALL BE FABRICATED TO THE PROPER RADIUS



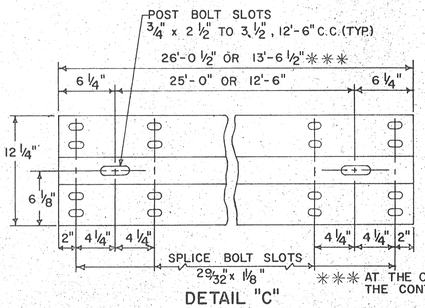
DETAIL "B" TERMINAL ELEMENT



PLAN

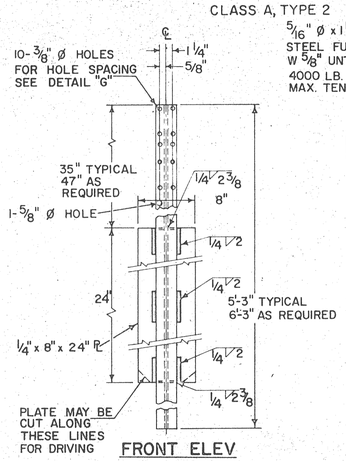


DETAIL "A" CONCRETE END ANCHOR TYPE I



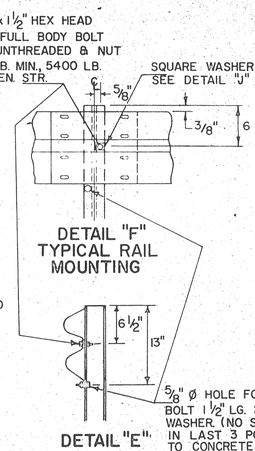
DETAIL "C" TYPICAL RAIL ELEMENT

CLASS A, TYPE 2



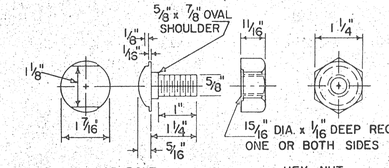
FRONT ELEV

DETAIL "D" POST S3 x 5.7



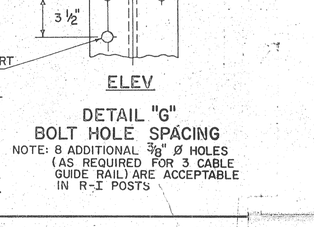
DETAIL "F" TYPICAL RAIL MOUNTING

DETAIL "E" TYPICAL RAIL MOUNTING & SUPPORT BOLT



DETAIL "H" SPLICE BOLT AND NUT

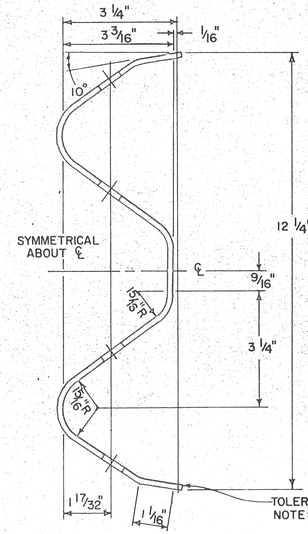
NOTE: AFTER GALVANIZING THE NUT SHALL BE FREE RUNNING ON THE BOLT



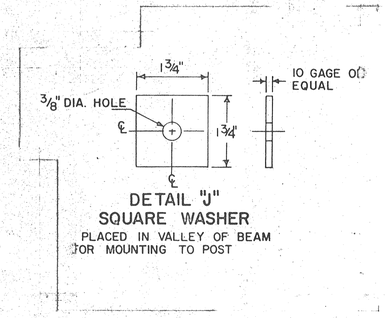
ELEV

DETAIL "G" BOLT HOLE SPACING

NOTE: 8 ADDITIONAL 3/8" Ø HOLES (AS REQUIRED FOR 3 CABLE GUIDE RAIL) ARE ACCEPTABLE IN R-I POSTS

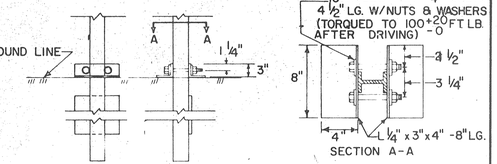


DETAIL "I" SECTION THRU RAIL ELEMENT



DETAIL "J" SQUARE WASHER

PLACED IN VALLEY OF BEAM FOR MOUNTING TO POST



DETAIL "K" BEARING CLAMP

NOTE: TO BE INSTALLED ONLY ON POST NEAREST CONCRETE END ANCHOR

APPROVED BY FHWA 6-22-73

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: J.D.B.
DRAWN BY: K.R.W.
CHECKED BY: P.O.T.
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
DATE
SCALE

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