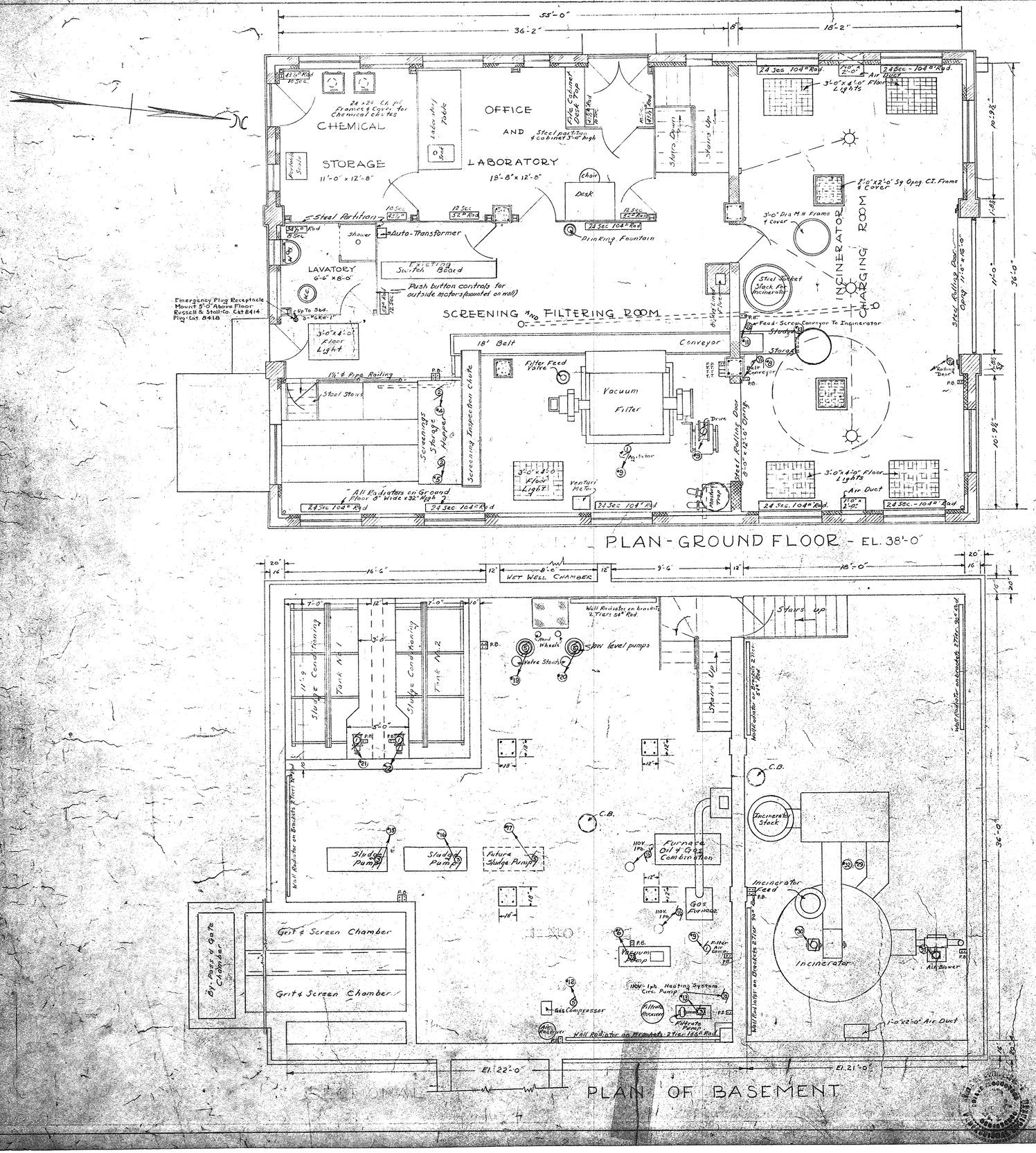

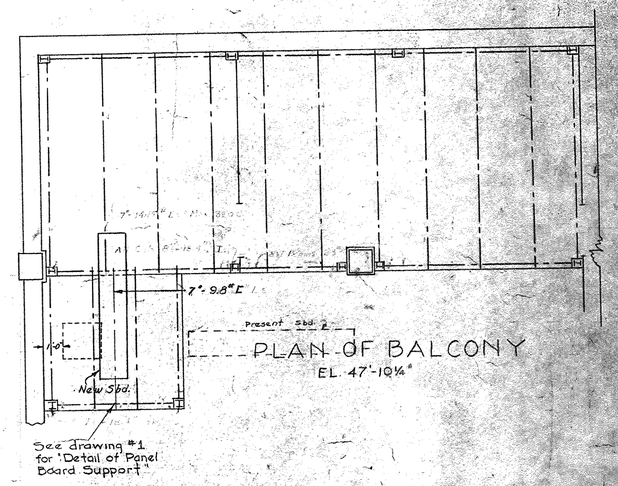

Note:
All Elevations below balcony floor to be considered wet location.

WIRE - CONDUIT & CONTROL SCHEDULE

DESCRIPTION		WIRE						CONDUIT					CONTROL							
CURCUIT		MOTOR		MOTOR		CONTROL				LENGTH			MOTOR STARTER			PUSH BUTTON			
No	USE	AMP	HP	SIZE	INSULATION	SIZE	INSULATION	SIZE	TYPE	RUN	FROM	TO	SIZE	TYPE	LOCATION	TYPE	ENCLOSURE	LOCATION	
4	Bar Screen	5.6	2	12	U.F.	12	TW	1"	Rigid Steel	50'	New Switchboard	Screen Motor	1	Combination	New Switch	Heavy Duty Magnetic w/ Mtr.	Waterproof	at Motor	
5	Bar Screen	5.6	2	12	"	12	"	1"	"	50'	"	"	1	"	"	"	"	"	
6	Filter Vacuum Pump (Exist.)	19.0	7½	8	"	12	"	1"	"	80'	"	Filter Vacuum Pump Motor	2	"	"	"	"	"	
7	" " (New)	19.0	7½	8	"	12	"	1"	"	100'	"	" " "	2	"	"	"	"	"	
8	Belt Conveyor (Screens to Screw Conv.)	2.0	½	12	"	12	"	1"	"	75'	"	Belt Conveyor Motor	1	"	"	"	"	"	
9	Filter Drive (Exist.)	3.2	1	12	"	12	"	1"	"	75'	"	Filter Drive Motor	1	"	"	"	"	"	
9	" Agitator (Exist)	3.2	1	12	"	12	"	1"	"	75'	"	" Agitator "	1	"	"	"	"	"	
9	Air Pump to Filter (Exist)	3.2	1	12	"	12	"	1"	"	90'	"	" Air Pump "	1	"	"	"	"	"	
10	Filter Drive (New)	3.2	1	12	"	12	"	1"	"	75'	"	Filter Drive Motor	1	"	"	"	"	"	
10	" Agitator (New)	3.2	1	12	"	12	"	1"	"	75'	"	" Agitator "	1	"	"	"	"	"	
10	Air Pump to Filter (New)	3.2	1	12	"	12	"	1"	"	100'	"	" Air Pump "	1	"	"	"	"	"	
11	Screw Conveyor to Sludge Incinerator	2.0	½	12	"	12	"	1"	"	65'	"	Screw Conveyor Motor	1	"	"	"	"	"	
12	Gas Compressor	13.0	5	10	"	12	"	1"	"	85'	"	Gas Compressor "	1	"	"	"	"	"	
13	Vacuum Filtrate Pump (Exist.)	8.0	3	10	"	12	"	1"	"	100'	"	Vacuum Filtrate Pump Motor	1	"	"	"	"	"	
14	" " (New)	8.0	3	10	"	12	"	1"	"	100'	"	" " "	1	"	"	"	"	"	
15	Sludge Pump (Exist)	8.0	3	10	"	12	"	1"	"	50'	"	Sludge Pump Motor	1	"	"	"	"	"	
16	" " "	8.0	3	10	"	12	"	1"	"	50'	"	" " "	1	"	"	"	"	"	
17	" " (New)	13.0	5	10	"	12	"	1"	"	"	"	" " "	1	"	"	"	"	"	
18	Heat Exchanger Pump (New)	5.0	1½	12	"	12	"	1"	"	"	"	Heat Exchanger Motor	1	"	"	"	with Pilot Lt.	"	
19	Low Level Sewage Pump	13.0	5	10	"	12	"	1"	"	75'	"	Low Level Sewage Pump Mot.	1	"	"	Heavy Duty Magnetic w/ Mtr.	"	"	
20	" " "	13.0	5	10	"	12	"	1"	"	75'	"	" " " "	1	"	"	"	"	"	
21	Sludge Conditioner	3.2	1	12	"	12	"	1"	"	50'	"	Sludge Conditioner Motor	1	"	"	"	"	"	
22	" "	3.2	1	12	"	12	"	1"	"	50'	"	" " "	1	"	"	"	"	"	
23	Digester Tank Rake (Exist)	5.6	2	10	"	12	"	1"	"	100' to Terminal 150' total	"	Digester Tank Rake Motor	1	"	"	"	with Pilot Lt.	"	Grd. Fault Int. Lock prot.
24	" " (Exist)	5.6	2	10	"	12	"	1"	"	200' total	"	" " "	1	"	"	"	"	"	
25	Clarifier Tank Rake (Exist)	5.6	2	10	"	12	"	1"	"	215' total	"	Clarifier Tank Motor	1	"	"	"	"	"	
26	" " "	5.6	2	10	"	12	"	1"	"	250' total	"	" " "	1	"	"	"	"	"	
27	" " (New)	5.6	2	10	"	12	"	1"	"	"	"	" " "	1	"	"	"	"	"	
28	" " (New)	5.6	2	10	"	12	"	1"	"	"	"	" " "	1	"	"	"	"	"	
29	Sludge Incinerator Drive (Exist)	5.3	1½	12	"	12	"	1"	"	120'	"	Sludge Incin. Drive Motor	1	"	"	Heavy Duty Magnetic w/ Mtr.	"	"	
30	" Blower	2.8	1	12	"	12	"	1"	"	110'	"	" Blower "	1	"	"	"	"	"	
31	" Ash Blower	5.0	2	10	"	12	"	1"	"	120'	"	" Ash Blower "	1	"	"	"	"	"	
32	" Air Turbine	2.9	1	12	"	12	"	1"	"	120'	"	" Air Turbine "	1	"	"	"	"	"	
33	" Inlet Feed	1.8	½	12	"	12	"	1"	"	70'	"	" Inlet Feed "	1	"	"	"	"	"	

Note:-
1- From Emergency Plug Receptacle to New Control Board #3 Wire, 4 Wires, R.W. Insulation, 1¼ Rigid Steel Conduit — 40'
2- From Power Co. Meter to 100A CB & 25 KVA Auto. Trans. #0 Wire, 3 Wires, RH INSUL, 2" Rigid Steel Conduit — 25'
3- From 100 A 25 K 32 to 175 Auto. Trans. to old Switch Board #0 Wire, 3 Wires, RH Insul, 2" Rigid Steel Conduit — 10'
4- From New Control Board to New Panel Board (For Existunits) 30'-2½ Galv. Steel Conduit with 4 Sets of 3-30 Lengths #12 Wire, U.F. Insul. (For New Units) 3 Sets of 3-30' Lengths #12 Wire, U.F. Insul.
5- #0 Wire, 4 Wires, All Insul, 2½ Galv. Steel Conduit from Power Pole to Comm. Power Co. Meter and New Control Board — 150'

SEWAGE TREATMENT PLANT
CONTROL CENTER
CITY OF MIDDLETOWN CONNECTICUT
R.W. GENOVESE & ASSOCIATES
294 ELM ST., NEW HAVEN, CONN.
SCALE: ⅛" = 1'-0" Nov., 1955
DRAWING NO. 2
S 12-7