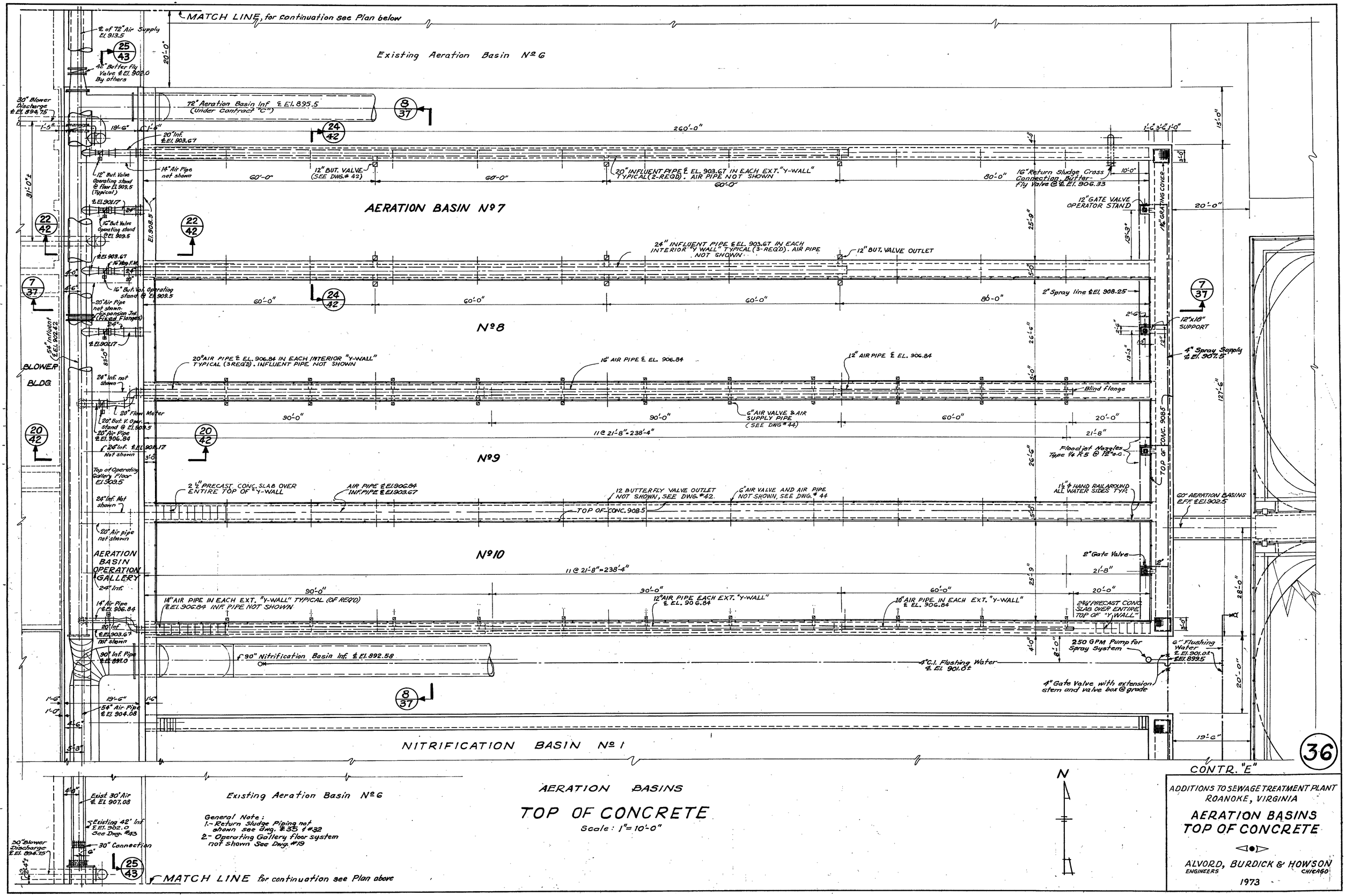
MATCH LINE, for continuation see Plan below
℄ of 72" Air Supply El. 913.5
42" Butter Fly Valve ℄ El. 902.0 By others
Existing Aeration Basin Nº 6
30" Blower Discharge ℄ El. 894.75
72" Aeration Basin Inf ℄ El. 895.5 (Under Contract "C")
20" Inf. ℄ El. 903.67
14" Air Pipe not shown
12" BUT. VALVE (SEE DWG.# 42)
20" INFLUENT PIPE ℄ EL. 903.67 IN EACH EXT. "Y-WALL" TYPICAL (2-REQD). AIR PIPE NOT SHOWN
16" Return Sludge Cross Connection, Butter-Fly Valve @ ℄ El. 906.33
12" GATE VALVE OPERATOR STAND
12" But. Valve Operating stand @ floor El. 909.5 (Typical)
AERATION BASIN Nº 7
16" But. Valve Operating stand @ El. 909.5
24" INFLUENT PIPE ℄ EL. 903.67 IN EACH INTERIOR "Y WALL" TYPICAL (3-REQD). AIR PIPE NOT SHOWN
12" BUT. VALVE OUTLET
2" Spray line ℄ El. 908.25
20" Air Pipe not shown. Expansion Jnt. (Flexed Flanges)
Nº 8
12"x18" SUPPORT
4" Spray Supply ℄ El. 907.5
54" Influent (℄ El. 902.42)
BLOWER BLDG
20" AIR PIPE ℄ EL. 906.84 IN EACH INTERIOR "Y-WALL" TYPICAL (3 REQ'D). INFLUENT PIPE NOT SHOWN
16" AIR PIPE ℄ EL. 906.84
12" AIR PIPE ℄ EL. 906.84
Blind Flange
24" Inf. not shown
20" Flow Meter
20" But. V. Oper. stand @ El. 909.5
20" Air Pipe ℄ El. 906.84
6" AIR VALVE & AIR SUPPLY PIPE (SEE DWG.# 44)
11 @ 21'-8" = 238'-4"
Floodjet Nozzles Type 1/4 K 5 @ 12" o.c.
Nº 9
Top of Operating Gallery Floor El. 909.5
2 1/2" PRECAST CONC. SLAB OVER ENTIRE TOP OF "Y-WALL
AIR PIPE ℄ El. 906.84 INF. PIPE ℄ El. 903.67
12 BUTTERFLY VALVE OUTLET NOT SHOWN, SEE DWG. #42.
6" AIR VALVE AND AIR PIPE NOT SHOWN, SEE DWG. # 44
TOP OF CONC. 908.5
1 1/2" ± HAND RAIL AROUND ALL WATER SIDES TYP.
60" AERATION BASINS EFF. ℄ El. 902.5
24" Inf. Not shown
20" Air pipe not shown
AERATION BASIN OPERATION GALLERY
Nº 10
2" Gate Valve
14" AIR PIPE IN EACH EXT. "Y-WALL" TYPICAL (OF REQ'D) ℄ El. 906.84 INF. PIPE NOT SHOWN
12" AIR PIPE EACH EXT. "Y-WALL" ℄ EL. 906.84
10" AIR PIPE IN EACH EXT. "Y-WALL" ℄ EL. 906.84
2 3/4" PRECAST CONC SLAB OVER ENTIRE TOP OF "Y WALL"
14" Air Pipe ℄ El. 906.84
20" Inf. ℄ El. 903.67 not shown
90" Inf. Pipe ℄ El. 891.0
90" Nitrification Basin Inf. ℄ El. 892.58
250 GPM Pump for Spray System
6" Flushing Water ℄ El. 901.0± ℄ El. 899.5
4" G.I. Flushing Water ℄ El. 901.0±
4" Gate Valve with extension stem and valve box @ grade
54" Air Pipe ℄ El. 904.08
NITRIFICATION BASIN Nº 1
CONTR. "E"
36
Exist. 30" Air ℄ El. 907.08
Existing 42" Inf. ℄ El. 902.0 See Dwg. #43
30" Connection
30" Blower Discharge ℄ El. 894.75
Existing Aeration Basin Nº 6
General Note:
1.- Return Sludge Piping not shown see dwg. #35 & #32
2.- Operating Gallery floor system not shown See Dwg. #19
MATCH LINE for continuation see Plan above
AERATION BASINS
TOP OF CONCRETE
Scale: 1" = 10'-0"
N
ADDITIONS TO SEWAGE TREATMENT PLANT
ROANOKE, VIRGINIA
AERATION BASINS
TOP OF CONCRETE
ALVORD, BURDICK & HOWSON
ENGINEERS
CHICAGO
1973