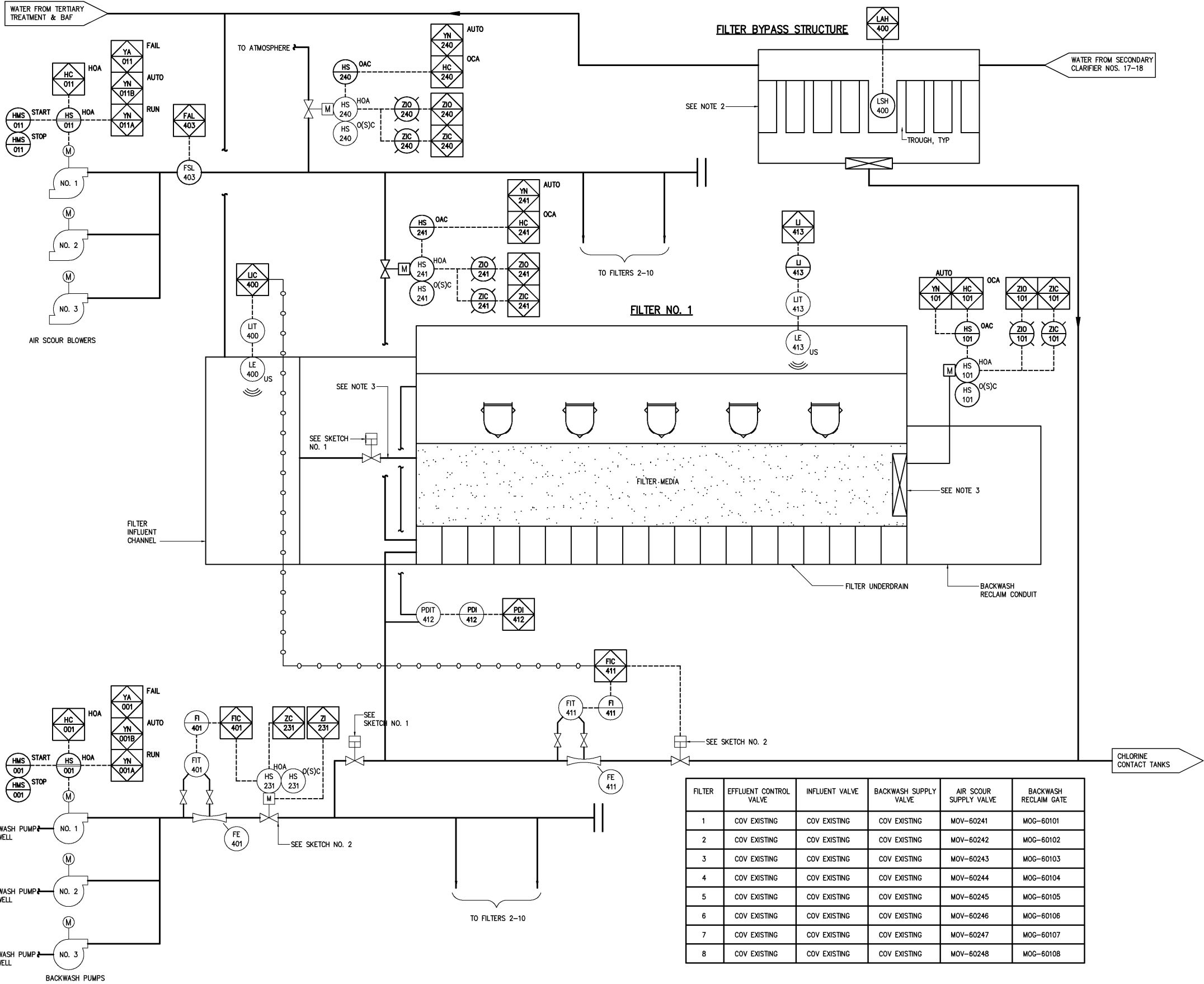
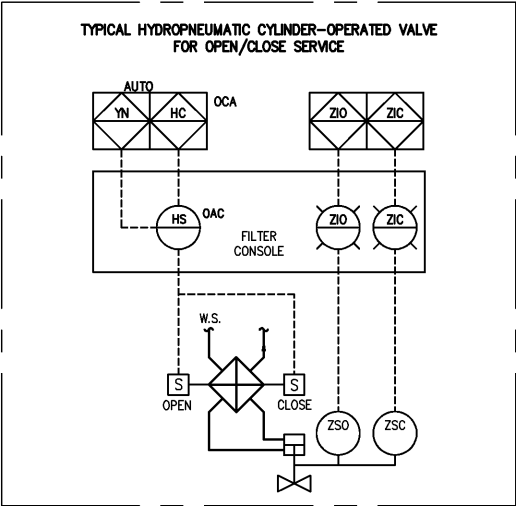


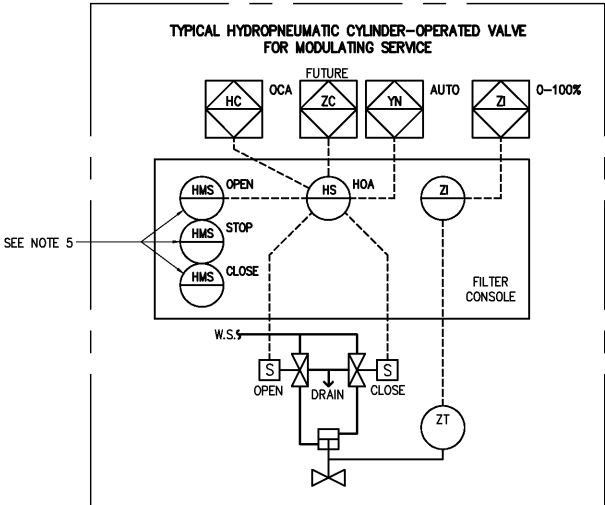


- NOTES:
- 1 ALL EFFLUENT FILTER TAG NUMBERS ARE PRECEDED BY '60'.
 - 2 ALL EFFLUENT FILTER BYPASS TAG NUMBERS ARE PRECEDED BY '62'.
 - 3 FILTER INFLUENT PIPE AND FILTER BACKWASH RECLAIM GATE ARE LOCATED BEHIND THE FILTER MEDIA IN THE FILTER GULLET.
 - 4 INTERPOSING RELAYS AND SIGNAL ISOLATORS SHALL BE PROVIDED IN THE FILTER CONSOLE TO ALLOW DIRECT MANUAL CONTROL OF THE ASSOCIATED FILTER'S LOCAL VALVES, BYPASSING THE PLC.
 - 5 OPEN AND CLOSE PUSHBUTTONS SHALL LATCH THE OUTPUT. STOP PUSHBUTTON SHALL RESET THE OUTPUT.

SKETCH NO. 1



SKETCH NO. 2



FILTER	EFFLUENT CONTROL VALVE	INFLUENT VALVE	BACKWASH SUPPLY VALVE	AIR SCOUR SUPPLY VALVE	BACKWASH RECLAIM GATE
1	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60241	MOG-60101
2	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60242	MOG-60102
3	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60243	MOG-60103
4	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60244	MOG-60104
5	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60245	MOG-60105
6	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60246	MOG-60106
7	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60247	MOG-60107
8	COV EXISTING	COV EXISTING	COV EXISTING	MOV-60248	MOG-60108

DESIGNED DMC/DBE			RECORD DRAWING			CITY OF ROANOKE VIRGINIA			INSTRUMENTATION AND CONTROL			THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.		DATE MARCH 2004	
DRAWN PTL			THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NO. 22769			HAZEN AND SAWYER			EFFLUENT FILTERS 1-8			H & S JOB NUMBER 30788B		CONTRACT NUMBER B	
CHECKED			THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINEER. THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DANIEL B. EDWARDS, SEAL NUMBER 024980. THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.			Environmental Engineers & Scientists			PROCESS AND INSTRUMENTATION DIAGRAM			DRAWING NUMBER 1600			
PROJ. ENGR. DAN						4011 WestChase Blvd, Raleigh, North Carolina 27607									
APPROVED															
NO.															
3 AS BUILT															
2 CONSTRUCTION															
1 REGULATORY APPROVAL															
ISSUED FOR															
DATE															
BY															