



- NOTES:**
- 1 ALL PRIMARY CLARIFIERS 7-9 AND ASSOCIATED SLUDGE PUMPS AND SCUM PUMPS TAG NUMBERS ARE PRECEDED BY '26'.
- INTERLOCK LEGEND:**
- 1 INITIATE PRIMARY SLUDGE WITHDRAWAL CYCLE FOR GROUP OF THREE CLARIFIERS AT OPERATOR SPECIFIED TIMES OF DAY.
  - 2 ALTERNATE THROUGH SEQUENCE OF THREE CLARIFIER SLUDGE VALVES FOR OPERATOR SELECTED WITHDRAWAL TIMES. OPEN NEXT VALVE IN SEQUENCE BEFORE CLOSING PREVIOUSLY OPENED VALVE.
  - 3 RUN DUTY PUMP WHILE CLARIFIER SLUDGE VALVES ARE OPEN. STOP PUMP BEFORE CLOSING LAST VALVE IN SEQUENCE.
  - 4 START GRINDER WHEN PUMP STARTS. STOP GRINDER WHEN PUMP STOPS. PUMP SHALL NOT OPERATE WHEN GRINDER IS NOT RUNNING.
  - 5 START SCUM CONCENTRATOR WHEN ANY PRIMARY OR THICKENER SCUM PUMP IS RUNNING. STOP CONCENTRATOR AFTER TIME DELAY WHEN ALL PUMPS ARE STOPPED.
  - 6 ALLOW MAXIMUM OF TWO SCUM PUMPS TO RUN SIMULTANEOUSLY ANYWHERE IN PLANT. QUEUE REMAINING PUMPS WITH HIGH WET WELLS ON FIFO BASIS.

DESIGNED DBE				THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NO. 22769		RECORD DRAWING		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 024960. THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.		HAZEN AND SAWYER Environmental Engineers & Scientists 4011 WestChase Blvd, Raleigh, North Carolina 27607		CITY OF ROANOKE VIRGINIA		REGIONAL WATER POLLUTION CONTROL PLANT WET WEATHER IMPROVEMENTS		INSTRUMENTATION AND CONTROL PRIMARY CLARIFIERS 7-9 PROCESS AND INSTRUMENTATION		THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.		DATE JULY 2003		H & S JOB NUMBER 30788A	
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