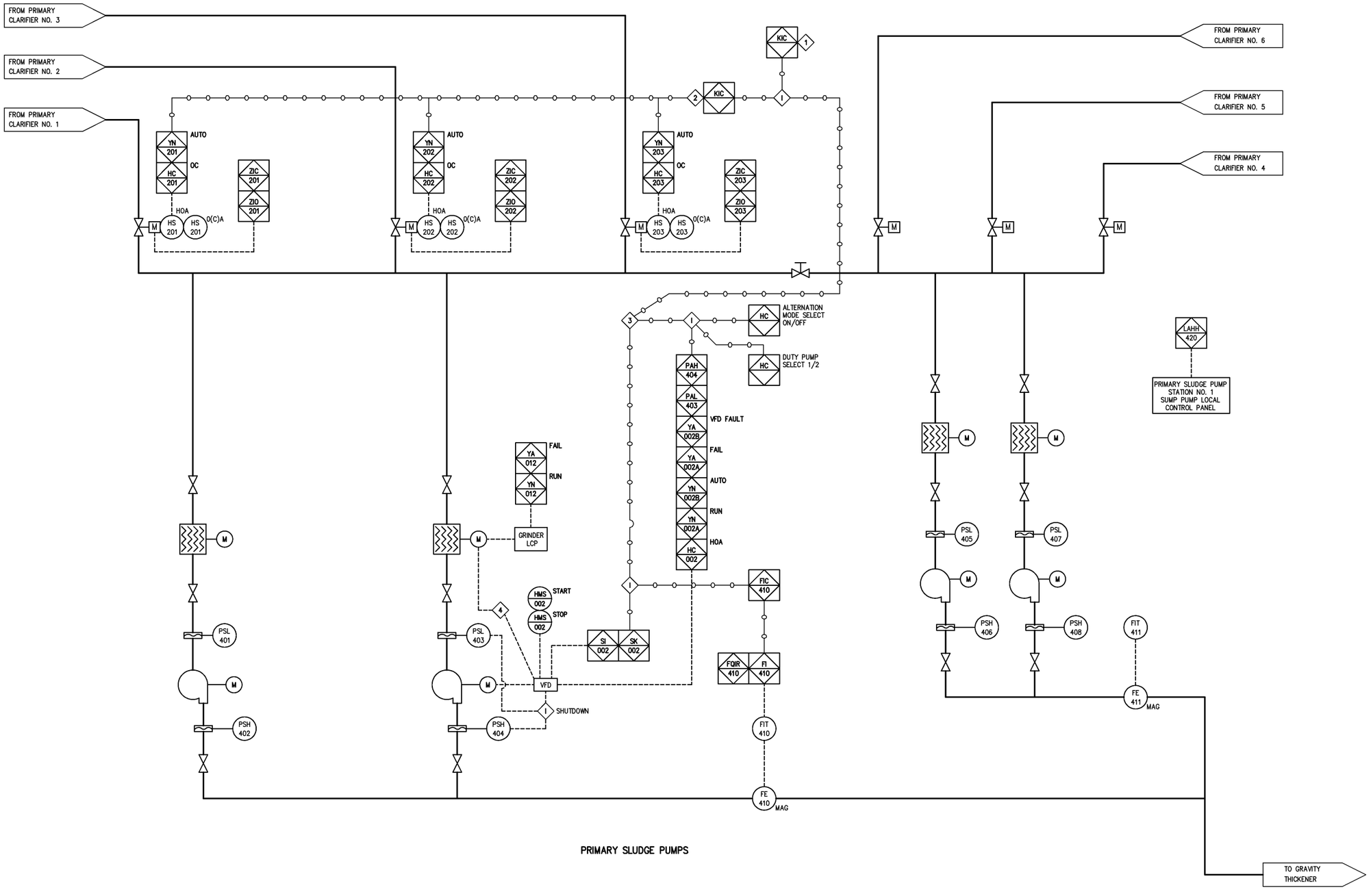

PRIMARY SLUDGE PUMPS

NOTES:

1 ALL PRIMARY SLUDGE PUMP STATION TAG NUMBERS ARE PRECEDED BY '22'.

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.

NO.	ISSUED FOR	DATE	BY
	RECORD DRAWINGS	MAR 2008	RLT
	CONSTRUCTION	MAR 2004	RLT
	REGULATORY APPROVAL	NOV 2003	RLT
	PRELIMINARY DESIGN	NOV 2002	RLT

DESIGNED DBE
DRAWN PTL
CHECKED
PROJ. ENGR. DAN
APPROVED

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NO. 22769

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY RONALD L. TAYLOR, SEAL NO. 024649

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 SLUDGE PUMP STATION NO. 1
PROCESS AND INSTRUMENTATION DIAGRAM

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

DATE JULY 2003
H & S JOB NUMBER 30788A
CONTRACT NUMBER A
DRAWING NUMBER I220

PLOT DATE: 07/08/03 10:57am FILE= N:\30788\30788A\INST\I220 by DZIMPEL XREFs=30788a\proc\30788fb.