



- NOTES:
- 1 BOTTOM MAT REINFORCEMENT SHOWN FOR CLARIFIER No. 18 IS TYPICAL FOR CLARIFIER No. 17.
  - 2 BOTTOM MAT OF CLARIFIERS SHALL BE PLACED IN FOUR EQUAL PLACEMENTS. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS PRIOR TO OR CONCURRENT WITH BOTTOM MAT REINFORCING STEEL SUBMITTAL.
  - 3 ALL PIPING BELOW CLARIFIER TANKS SHALL BE ENCASED IN CLASS 'B' CONCRETE. ENCASEMENT SHALL BE A MINIMUM OF 12" THICK AROUND PIPE AND SHALL BE TIED INTO THE TOP MAT OF SLAB REINFORCEMENT AS SHOWN IN SECTION E/S483. ALL CONCRETE ENCASEMENTS SHALL EXTEND OUT TO OUTSIDE EDGE OF CONCRETE SLAB.
  - 4 PRESSURE RELIEF VALVES SHALL BE NEENAH MODEL R-5002 TYPE B OR EQUAL. PLACEMENT OF PRESSURE RELIEF VALVE WALL PIPE SHALL BE SIMILAR TO STANDARD DETAIL 1509210. FLANGE OF PRESSURE RELIEF VALVES SHALL EXTEND A MAXIMUM OF 2" PAST THE INTERIOR FACE OF WALL. CONTRACTOR SHALL VERIFY THAT ELEVATIONS AND EXTENSION OF PRESSURE RELIEF VALVES DO NOT CONFLICT WITH ANY MECHANICAL EQUIPMENT. IF PRESSURE RELIEF VALVE ARE TO BE RELOCATED CONTRACTOR SHALL COORDINATE NEW LOCATIONS OF PRESSURE RELIEF VALVES WITH ENGINEER PRIOR TO INSTALLATION.
  - 5 CONTRACTOR SHALL LAY OUT ROCK ANCHORS AT THE RADIUS SHOWN ON THE CONTRACT DRAWING. CONTRACTOR SHALL SPACE ROCK ANCHORS AT 18" AROUND THE CENTER OF THE CLARIFIERS. CONTRACTOR SHALL NOT PLACE ROCK ANCHORS IN THE LOCATION OF PIPING.

				DESIGNED <u>DAN/DDZ</u>	THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NO. 22769	RECORD DRAWING	<b>Hazen and Sawyer</b> Environmental Engineers & Scientists 4011 WestChase Blvd, Raleigh, North Carolina 27607	CITY OF ROANOKE VIRGINIA	REGIONAL WATER POLLUTION CONTROL PLANT PROCESS TRAIN IMPROVEMENTS	SECONDARY CLARIFIER NOS.17 AND 18	STRUCTURAL  BOTTOM PLAN	THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE <u>MARCH 2004</u>		
				DRAWN <u>BRC/DDZ</u>									H & S JOB NUMBER <b>30788B</b>		
				CHECKED _____									CONTRACT NUMBER <b>B</b>		
3	AS BUILT	OCT 2007	RLT	PROJ. ENGR. <u>DAN</u>	THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY RONALD L. TAYLOR, SEAL NO. 024649	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 CHRISTOPHER T. PHILLIPS, 033796. THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.							DRAWING NUMBER <b>S480</b>		
2	CONSTRUCTION	MAR 2004	RLT												
1	REGULATORY APPROVAL	NOV 2003	RLT												
NO.	ISSUED FOR	DATE	BY	APPROVED _____											