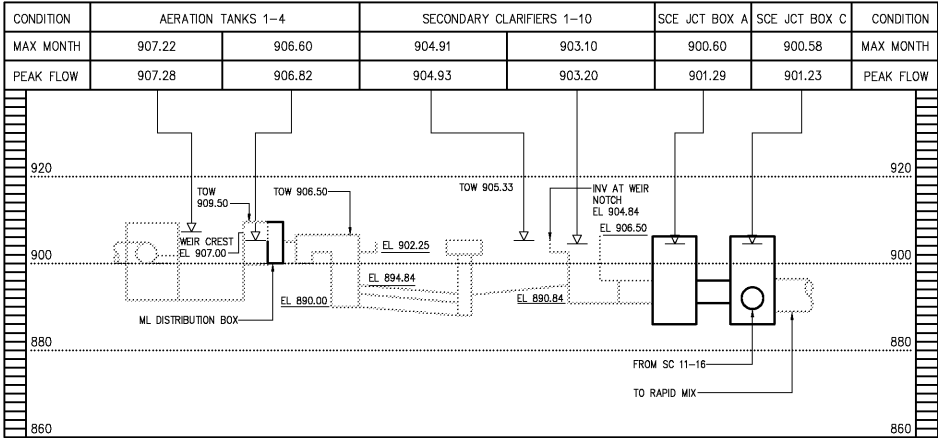
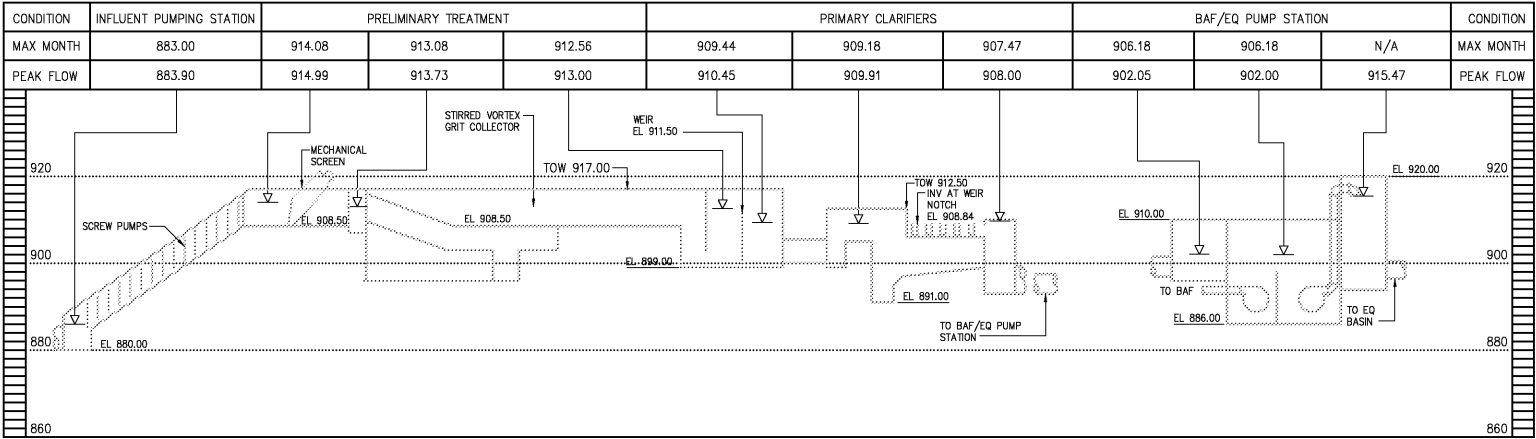
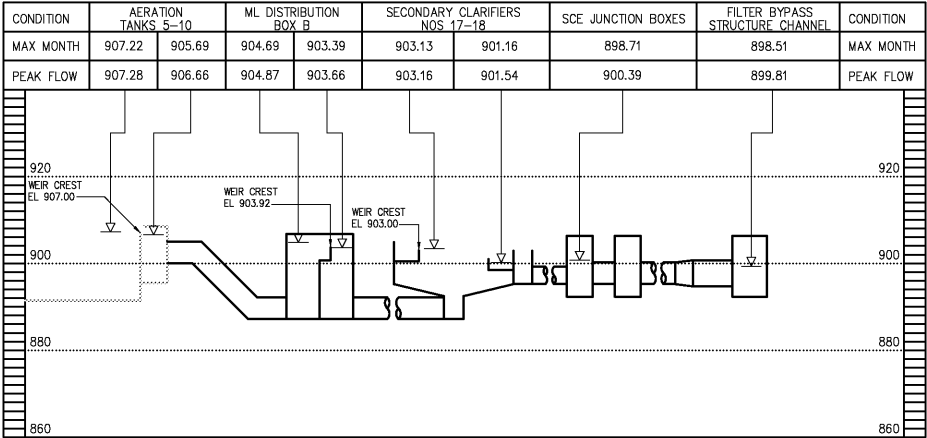


NOTES:

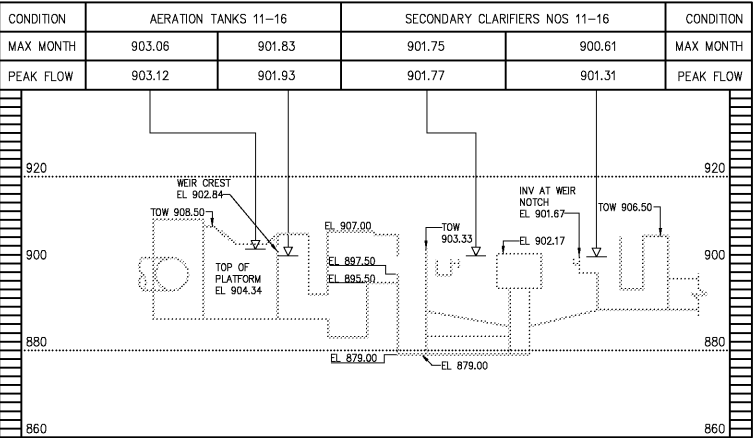
- 1 SEE TABLE BELOW FOR MAXIMUM MONTH AND PEAK FLOWS USED TO CALCULATE PROFILE.
- 2 THE MAXIMUM MONTH HYDRAULIC PROFILE ASSUMES NORMAL WATER LEVEL IN RIVER AND NO EFFLUENT PUMPING. PEAK FLOW PROFILE ASSUMES 100 YEAR FLOOD LEVEL IN RIVER WITH EFFLUENT PUMPING.



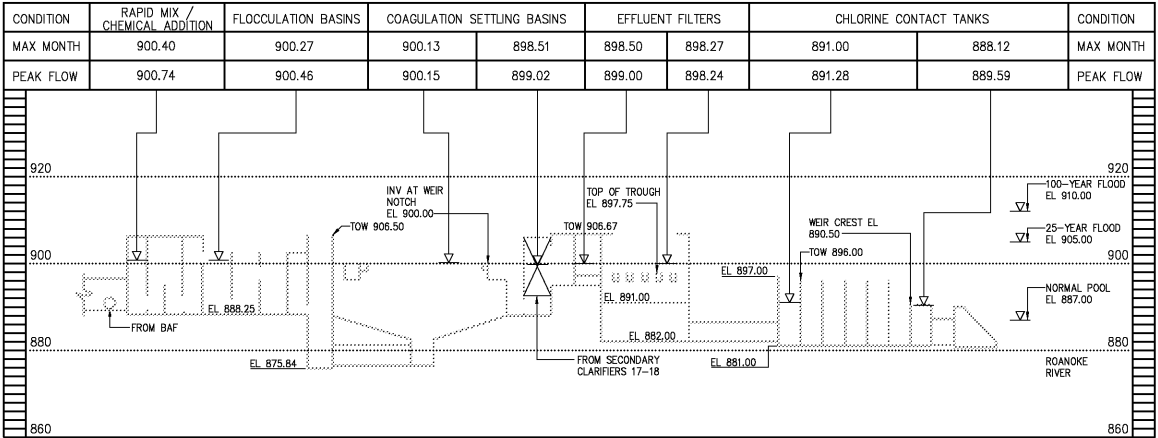
ACTIVATED SLUDGE TRAIN A



ACTIVATED SLUDGE TRAIN B



ACTIVATED SLUDGE TRAIN C



PLANT FLOWS (MGD)		
PROFILE SEGMENT	MAX MONTH FLOW	PEAK FLOW
INFLUENT PUMP STATION THROUGH PRIMARY CLARIFIERS	60.0	137.5
PRIMARY CLARIFIERS TO BAF/EQ PUMP STATION	14.0	57.0
PRIMARY CLARIFIERS THROUGH ACTIVATED SLUDGE	46.0	80.5
ACTIVATED SLUDGE TRAIN A	11.5	20.1
ACTIVATED SLUDGE TRAIN B	17.25	30.2
ACTIVATED SLUDGE TRAIN C	17.25	30.2
EFFLUENT FILTERS TO OUTFALL	55.0	94.5
RAPID MIX/FLOC/COAGS	42.8	64.3

				DESIGNED	DAN
				DRAWN	H & S
				CHECKED	
3	AS BUILT	OCT 2007	RLT	PROJ. ENGR.	DAN
2	CONSTRUCTION	MAR 2004	RLT		
1	REGULATORY APPROVAL	NOV 2003	RLT		
NO.	ISSUED FOR	DATE	BY	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

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CITY OF ROANOKE
VIRGINIA

REGIONAL WATER POLLUTION CONTROL PLANT
PROCESS TRAIN IMPROVEMENTS

HYDRAULIC PROFILE

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.		DATE	MARCH 2004
		H & S JOB NUMBER	30788B
		CONTRACT NUMBER	B
		DRAWING NUMBER	M3