



- NOTES:**
- 1 CONTRACTOR SHALL PROVIDE ALL FITTINGS, ADAPTERS, THRUST RESTRAINT AND APPURTENANCES AS REQUIRED TO TIE INTO EXISTING PIPING.
 - 2 PLUG EXISTING OPENING.
 - 3 CONTRACTOR MAKE CONNECTION TO EXISTING 16" WALL PIPE AT CL 895.50.
 - 4 PROVIDE A THRUST BLOCK FOR JOINT RESTRAINT.
 - 5 2" SPD SHALL PENETRATE INFLUENT DISTRIBUTION BOX AT CL 903.00. SEE DETAIL 1509211.
 - 6 PROVIDE FULL PORT PLUG VALVES ON ALL SLUDGE LINES AND 6" PD.
 - 7 LOCATION OF TEMPORARY BYPASS PUMPING CONNECTIONS SEE SPECIFICATIONS SECTIONS 01520 AND 01525.
 - 8 PROVIDE MECHANICAL JOINT RESTRAINT DEVICE.
 - 9 CONTRACTOR SHALL PROVIDE EXCAVATION SUPPORT AS REQUIRED DURING CONSTRUCTION OF THE THICKENED SLUDGE PUMP STATION TO PROTECT EXISTING AND NEW PIPING. SEE NOTE 7/G13.

BOTTOM PLAN
1/4"=1'-0"

				DESIGNED	MAF	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 DAVID A. NAILOR, 025465. 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	GRAVITY THICKENER MODIFICATIONS MECHANICAL BOTTOM PLAN	THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.	DATE JULY 2003	
				DRAWN	RWB								H & S JOB NUMBER 30788A	
				CHECKED									CONTRACT NUMBER A	DRAWING NUMBER M701
	RECORD DRAWINGS	MAR 2008	RLT	PROJ. ENGR.	DAN									
	CONSTRUCTION	MAR 2004	RLT											
	REGULATORY APPROVAL	NOV 2003	RLT											
	PRELIMINARY DESIGN	NOV 2002	RLT											
NO.	ISSUED FOR	DATE	BY	APPROVED										