

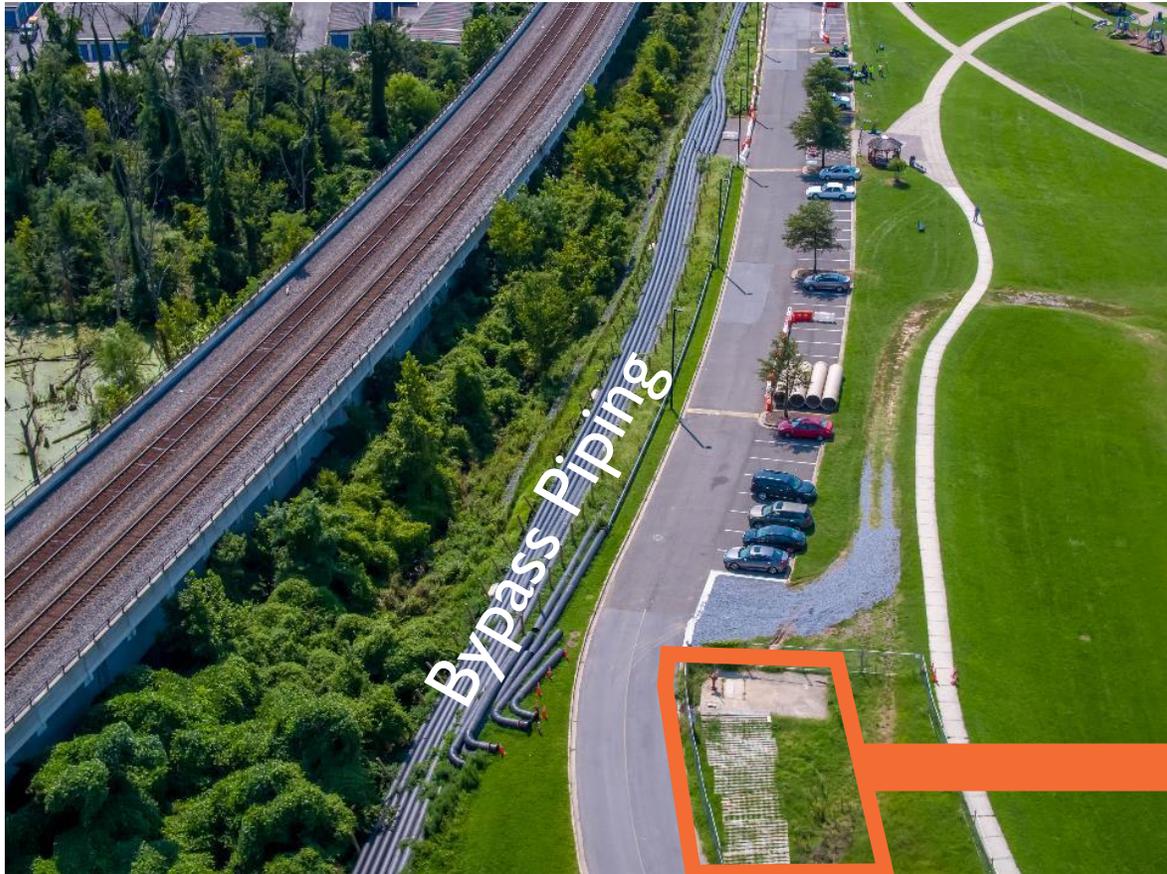


102-inch Anacostia Trunk Sewer Rehabilitation

March 17, 2021



Bypass Piping and Fenced Area



Fenced For Pipe Condition

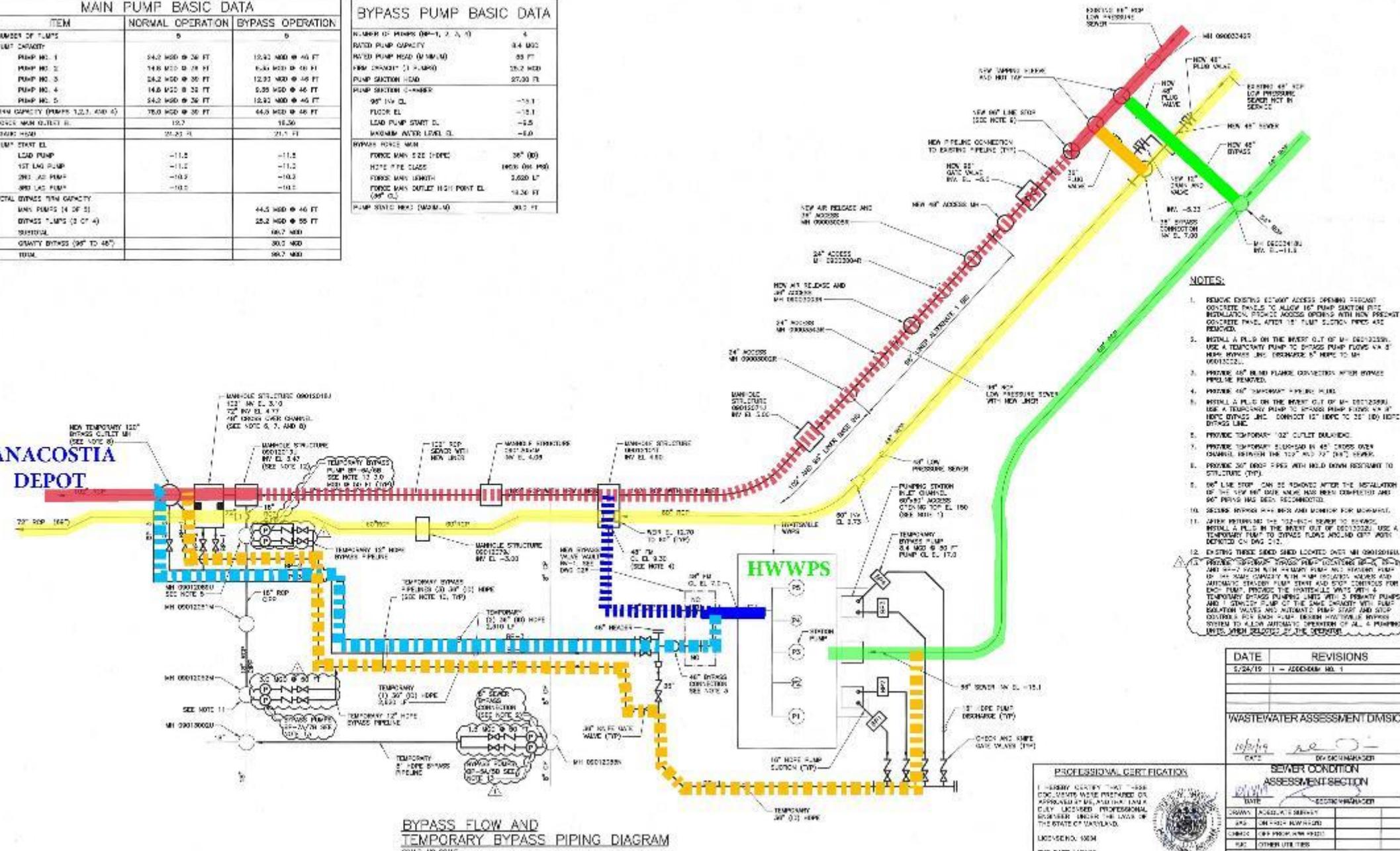
Hyattsville Pumping Station with Bypass Piping Under Construction



MAIN PUMP BASIC DATA		
ITEM	NORMAL OPERATION	BYPASS OPERATION
NUMBER OF PUMPS	0	0
PUMP CAPACITY		
PUMP NO. 1	54.0 MGD @ 36 FT	10.40 MGD @ 46 FT
PUMP NO. 2	14.0 MGD @ 36 FT	6.40 MGD @ 46 FT
PUMP NO. 3	54.0 MGD @ 36 FT	10.40 MGD @ 46 FT
PUMP NO. 4	14.0 MGD @ 36 FT	6.40 MGD @ 46 FT
PUMP NO. 5	54.0 MGD @ 36 FT	10.40 MGD @ 46 FT
MIN CAPACITY (PUMPS 1,2,3 AND 4)	78.0 MGD @ 36 FT	44.8 MGD @ 46 FT
ROCKE MAN OBJECT EL.	10.7	10.30
ROCKE HEAD	30.20 FT	21.1 FT
PUMP START EL.		
LOAD PUMP	-11.0	-11.0
1ST LAG PUMP	-11.0	-11.0
2ND LAG PUMP	-10.0	-10.0
3RD LAG PUMP	-10.0	-10.0
TOTAL BYPASS TRM CAPACITY		
MAIN PUMPS (4 OF 5)		44.8 MGD @ 46 FT
BYPASS PUMPS (2 OF 4)		25.2 MGD @ 55 FT
TOTAL		70.0 MGD
GRAVITY BYPASS (36" TO 46")		30.2 MGD
TOTAL		100.2 MGD

BYPASS PUMP BASIC DATA	
NUMBER OF PUMPS (0=1, 2, 3, 4)	4
BATED PUMP CAPACITY	0.4 MGD
RAISED PUMP HEAD (0' MIN.)	35 FT
RAISE CRANKS (1 = 1, 2, 3, 4)	25.2 MGD
PUMP SECTION HEAD	27.00 FT
PUMP SECTION 1-CRANK	
90" DIA. CL.	-10.1
FLOOR EL.	-10.1
LOAD PUMP START EL.	-10.0
MAXIMUM WATER LEVEL CL.	-6.0
BYPASS FORCE MAIN	
FORCE MAIN SIZE (DIPS)	36" (0)
NOTE PIPE CLASS	1800 OH 180
FORCE MAIN LENGTH	2,000 LF
FORCE MAIN OUTLET HIGH POINT CL.	14.36 FT
PUMP SECTION HEAD (MAXIMUM)	30.2 FT

ANACOSTIA DEPOT



- NOTES:**
- REMOVE EXISTING 60" DIA ACCESS OPENING THROUGH CONCRETE PAVES TO ALLOW 18" PUMP SECTION PIPE INSTALLATION. PROVIDE ACCESS OPENING WITH NEW PRECAST CONCRETE PANEL AFTER 18" FLAT SLURRY PIPE AND REMOVED.
 - INSTALL & FILL ON THE BENT OUT OF MH-00012258. USE A TEMPORARY PUMP TO BYPASS PUMP FLOWS VIA 3" MAIN BYPASS LINE (DEGRADE 6" PIPE TO 18" DIA) TO MH-00012258.
 - PROVIDE 36" IN 90 DEGREE CONNECTION AFTER BYPASS PIPELINE REMOVED.
 - PROVIDE 48" TEMPORARY FORCE MAIN.
 - INSTALL & FILL ON THE BENT OUT OF MH-00012258. USE A TEMPORARY PUMP TO BYPASS PUMP FLOWS VIA 3" MAIN BYPASS LINE. CONNECT 12" DIPS TO 24" DIA 180 DEGREE LINE.
 - PROVIDE TEMPORARY 102" OUTLET DRAINAGE.
 - PROVIDE TEMPORARY SLURRY IN 48" DISS OVER EXISTING 180" IN THE BENT OUT OF 00012258.
 - PROVIDE 36" DISS PIPES WITH WELD DOWN RESTRAINT TO STRUCTURE (TYP).
 - 60" LINE STOP CAN BE REMOVED AFTER THE INSTALLATION OF THE NEW 60" DISS AND HAS BEEN COMPLETED AND 60" PIPES HAS BEEN RECONNECTED.
 - REMOVE BYPASS PUMP AND MONITOR FOR WORKING.
 - CHECK INTERIOR THE 102" DIA TO REMOVE. INSTALL & FILL IN THE BENT OUT OF 00012258. USE A TEMPORARY PUMP TO BYPASS FLOWS AND NO GET AHEAD DETECTED ON DWG 012.
 - EXISTING THREE SINKS SHOLD LOCKED OVER MH-00012258. PROVIDE TEMPORARY 36" DIA CONNECTION FROM 180" DIA 180" DIA WITH 4" DIA PUMP. PROVIDE THE CONNECTION WITH 4" TEMPORARY BYPASS PUMPING UNIT WITH 4" PRIMARY PUMPS AND 4" SECONDARY PUMP OF THE SAME CAPACITY WITH ISOLATION VALVES AND AUTOMATIC PUMP START AND STOP OUTLET. PROVIDE 3" DIA 4" DIA 180 DEGREE CONNECTION TO ALLOW AUTOMATIC OPERATION OF ALL 4 PUMPING UNITS WITH DELAY OF THE OPERATOR.

DATE	REVISIONS
5/24/19	1 - APPROVAL NO. 1

WASTEWATER ASSESSMENT DIVISION

DATE: 5/24/19 BY: [Signature]

SEWER CONDITION ASSESSMENT SECTION

DATE: 5/24/19 BY: [Signature]

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE CIVIL ENGINEERING DRAWINGS WERE PREPARED OR SUPERVISED BY ME, A PROFESSIONAL ENGINEER LICENSED UNDER THE LAWS OF THE STATE OF MARYLAND.

DATE: 5/24/19



BYPASS FLOW AND TEMPORARY BYPASS PIPING DIAGRAM
SCALE: NO SCALE

Questions?

