

5/14/2025

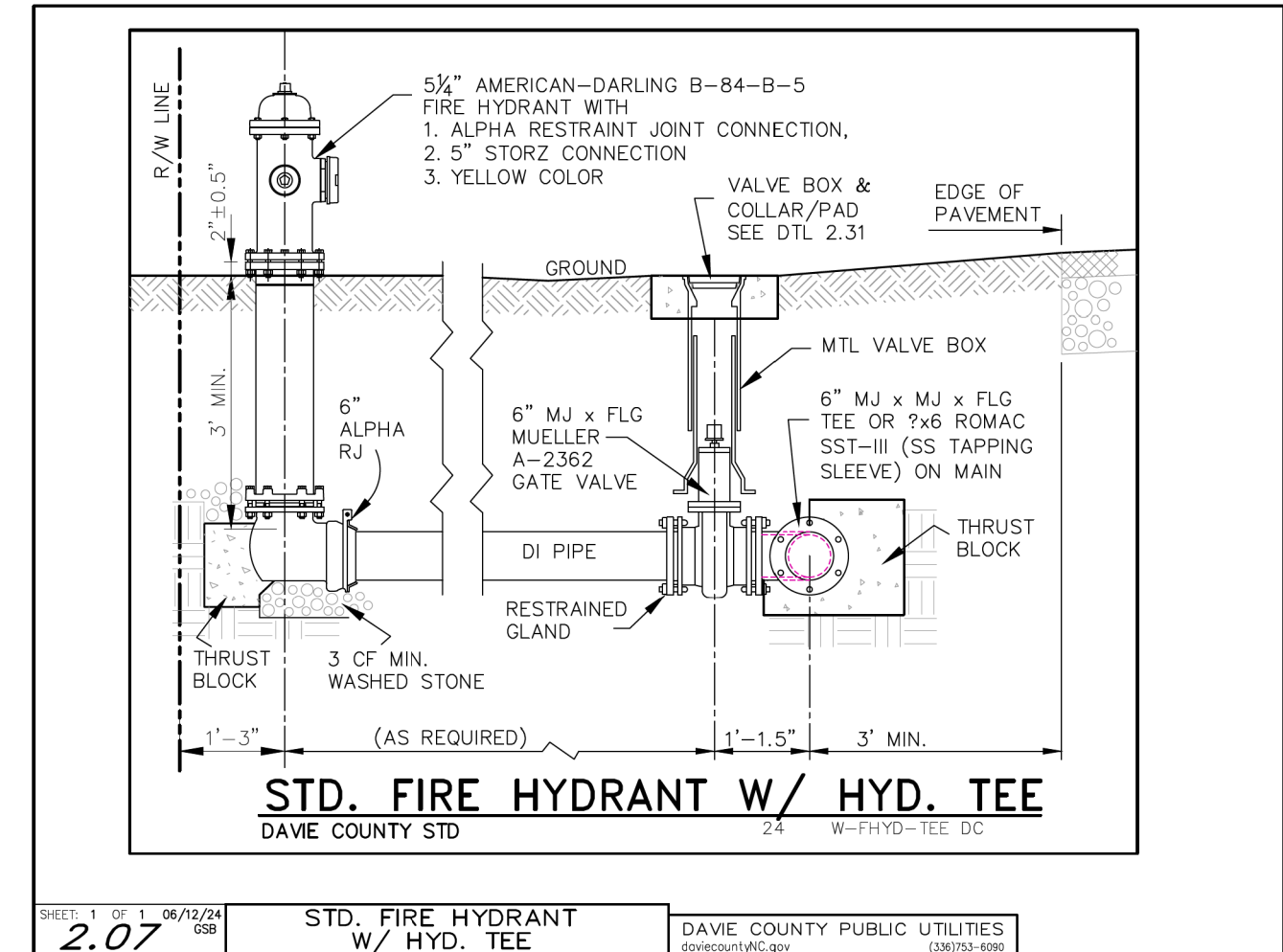
PROJECT TYPICAL DETAILS

PROJECT REFERENCE NO.	SHEET NO.
U-6187	UC-3B
DESIGNED BY: JMK	5/1/2025
DRAWN BY: JMK	
CHECKED BY:	
APPROVED BY: JMK	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

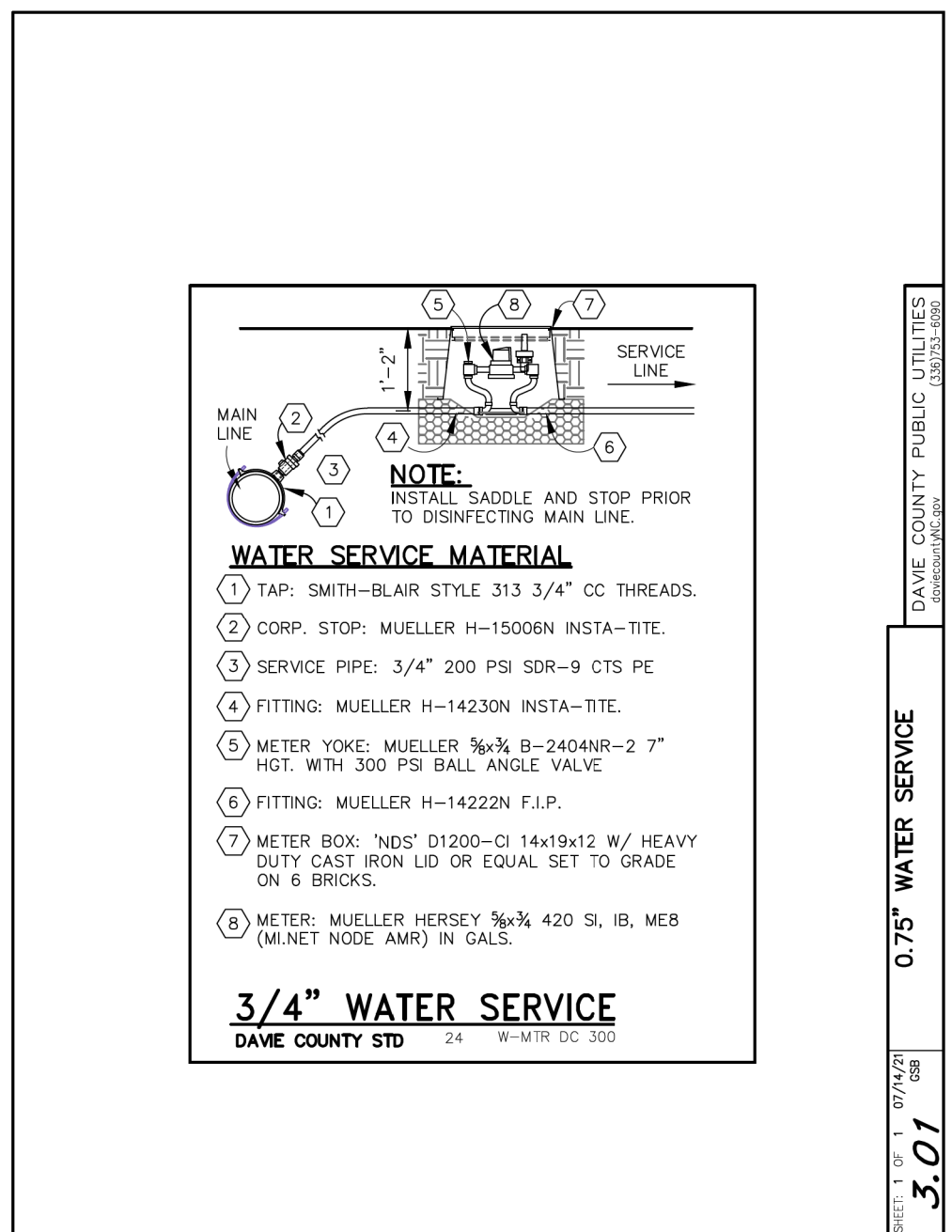


UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



2.07 STD. FIRE HYDRANT W/ HYD. TEE DAVE COUNTY PUBLIC UTILITIES



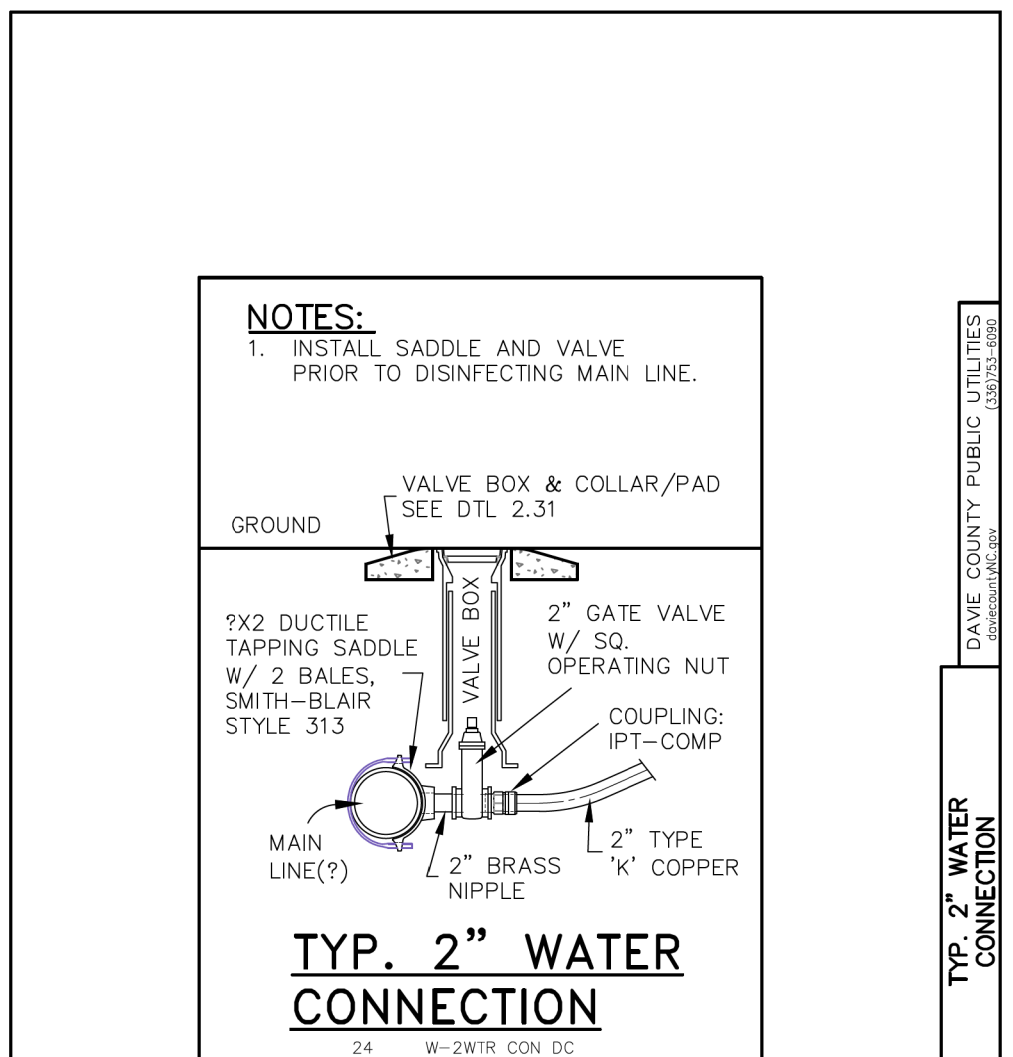
3.01 0.75" WATER SERVICE DAVE COUNTY PUBLIC UTILITIES

FORCEMAIN GENERAL NOTES:

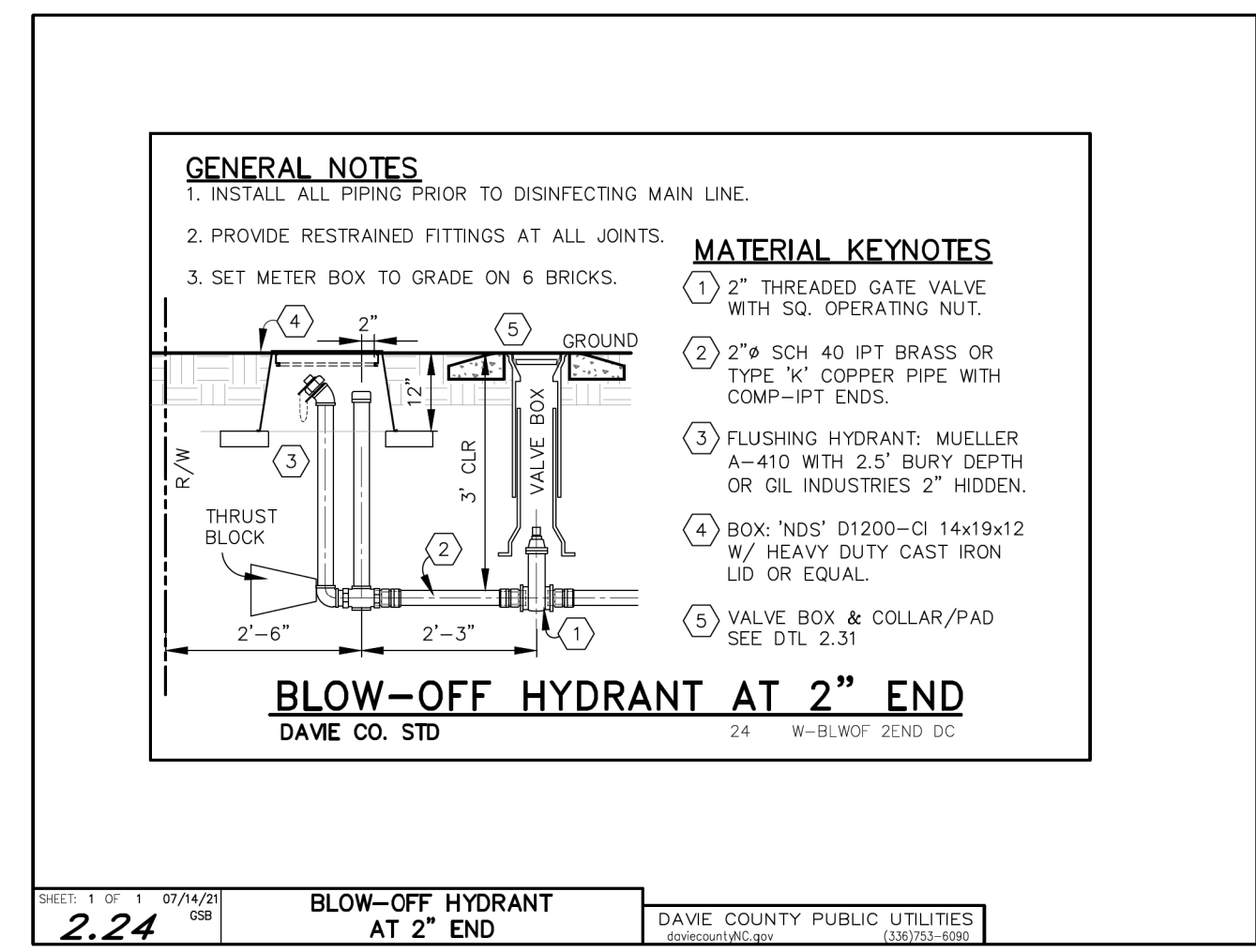
- STANDARD SEWER FORCEMAIN SHALL BE PVC C-900 OR FUSIBLE HDPE WHERE APPROVED.
- DUCTILE IRON PIPE SHALL BE USED IF SANITARY SEWER DOES NOT MEET OR EXCEED THE FOLLOWING SEPARATION:
 - A. 36" MINIMUM GROUND COVER
 - B. 24" VERTICAL FROM STORM SEWER PIPE (CROSSING OR PARALLEL)
 - C. 18" VERTICAL UNDER OR 10' HORIZONTAL FROM WATER MAIN
 - D. 10' HORIZONTAL FROM STREAM, LAKE OR WATER IMPOUNDMENTS. COMPLY WITH 15A NCAC 02T.0305 (f).
- CENTER ONE 20' SECTION OF DUCTILE IRON PIPE AT ALL CROSSINGS.
- FOR AIR VALVES IN ROAD RIGHT-OF-WAY, SET MANHOLE FRAME AND COVER TO SHOULDER GRADE WITH SURROUNDING SOIL OR STONE IN A COMPACTED CONDITION.
- PROVIDE TRACER WIRE 12" ABOVE PIPE WITH CONTINUOUS CONNECTION.
- PRESSURE TEST THE SYSTEM AT 150 PSI OR GREATER. MAINTAIN FOR AT LEAST THREE HOURS. ADD SUFFICIENT WATER TO BRING BACK TO STARTING PRESSURE AFTER THREE HOURS. WATER ADDED SHALL NOT EXCEED THE GPH/1000 FT. OF LINE TESTED PER THE FOLLOWING TABLE. PRESSURE TESTING MUST BE OBSERVED BY THE A UTILITY REPRESENTATIVE AND DOCUMENTED IN THE CONSTRUCTION RECORDS BY THE CONTRACTOR.

Pipe Dia. in.	20' L pipe gal/hr			Gals of Water Added for D & H inches
	1 hr	2 hrs	3 hrs	
4	0.33	0.66	0.99	.0034 x D ² (H)
6	0.5	1.00	1.50	.0034 x D ² (H)
8	0.67	1.34	2.01	.0034 x D ² (H)
12	1	2.00	3.00	5.875 x D ² (H)

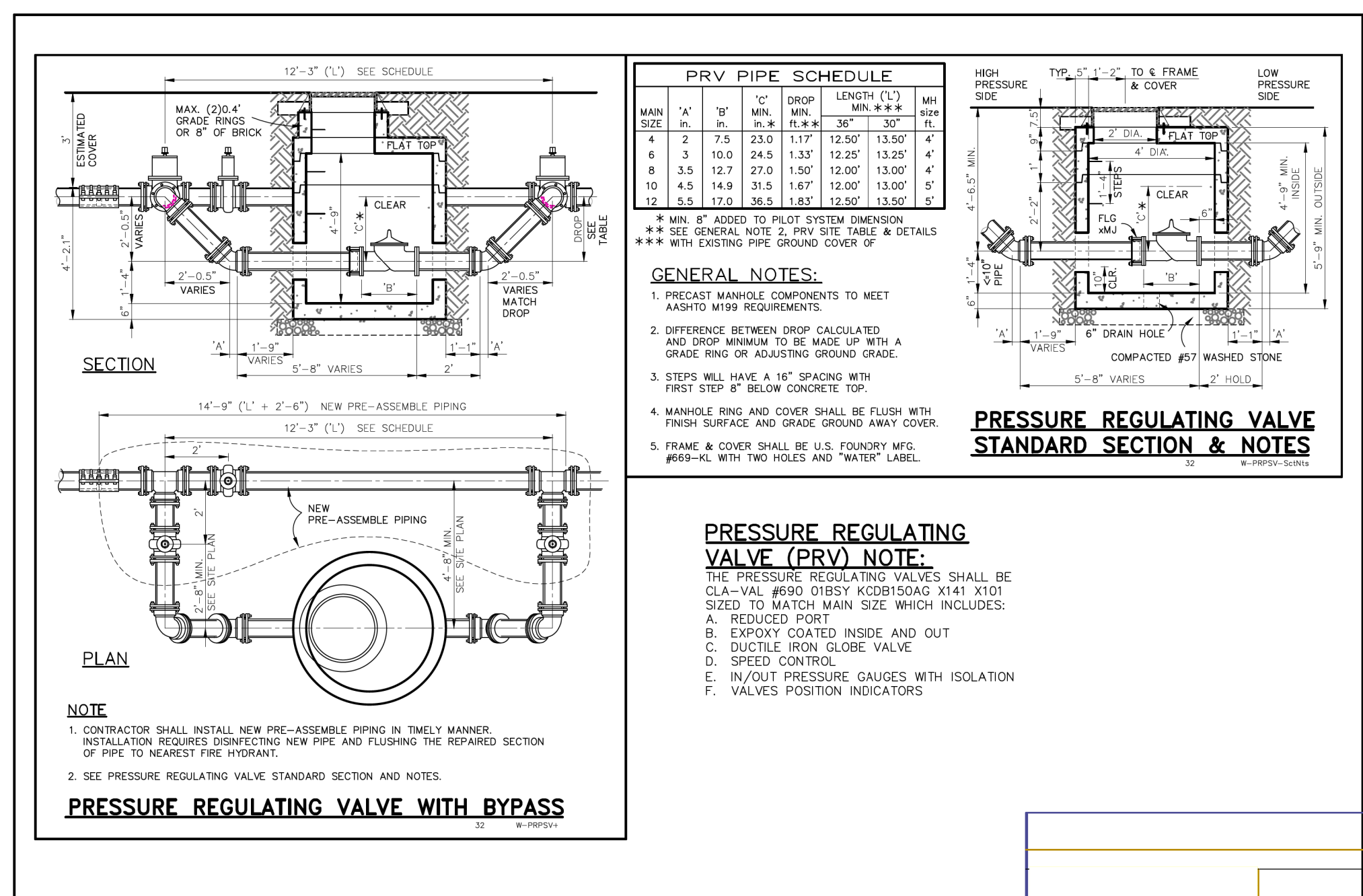
5.09 SEWER FORCEMAIN GENERAL NOTES DAVE COUNTY PUBLIC UTILITIES



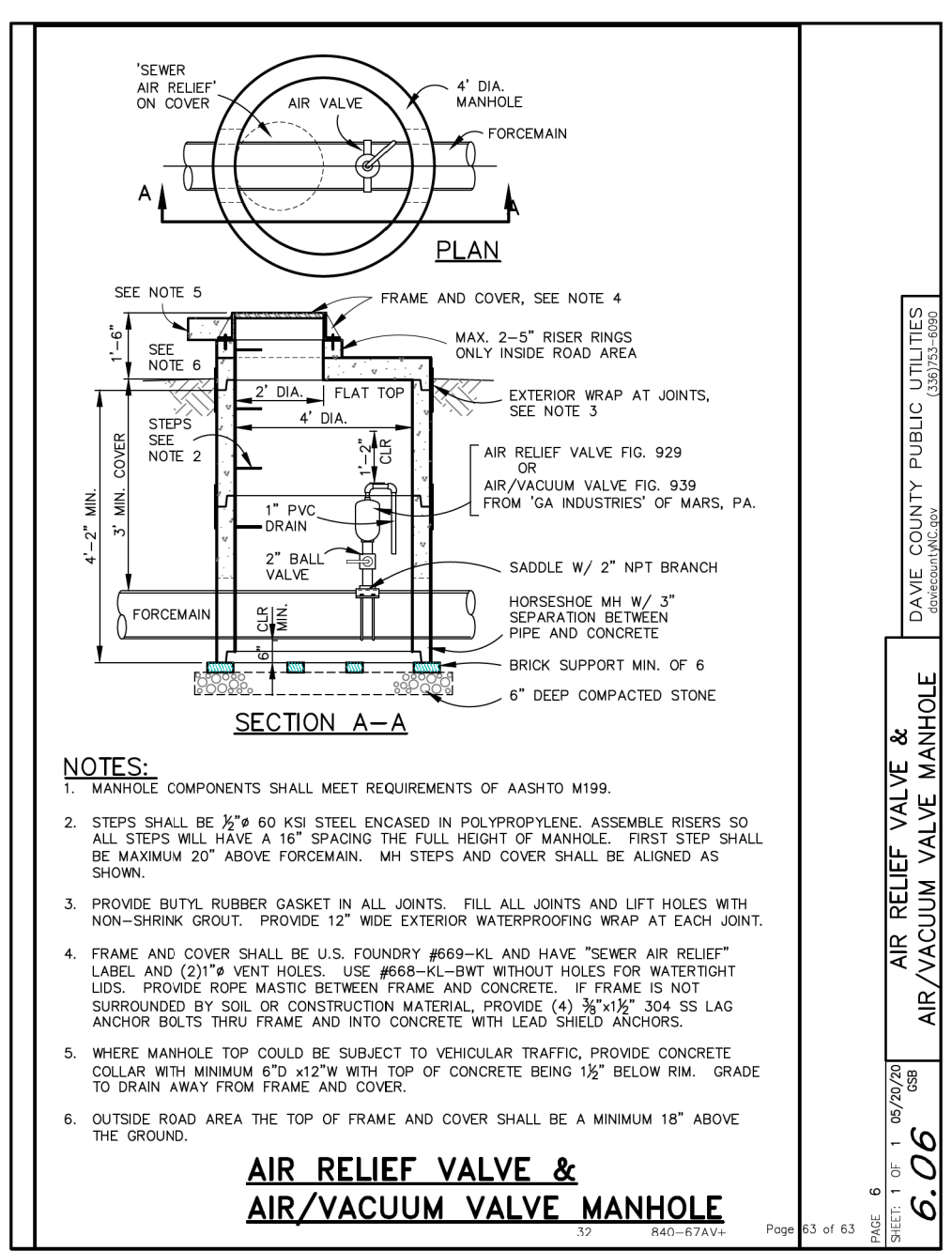
2.21 TYP. 2" WATER CONNECTION DAVE COUNTY PUBLIC UTILITIES



2.24 BLOW-OFF HYDRANT AT 2" END DAVE COUNTY PUBLIC UTILITIES



PRESSURE REGULATING VALVE STANDARD SECTION & NOTES



6.06 AIR RELIEF VALVE & AIR/VACUUM VALVE MANHOLE DAVE COUNTY PUBLIC UTILITIES