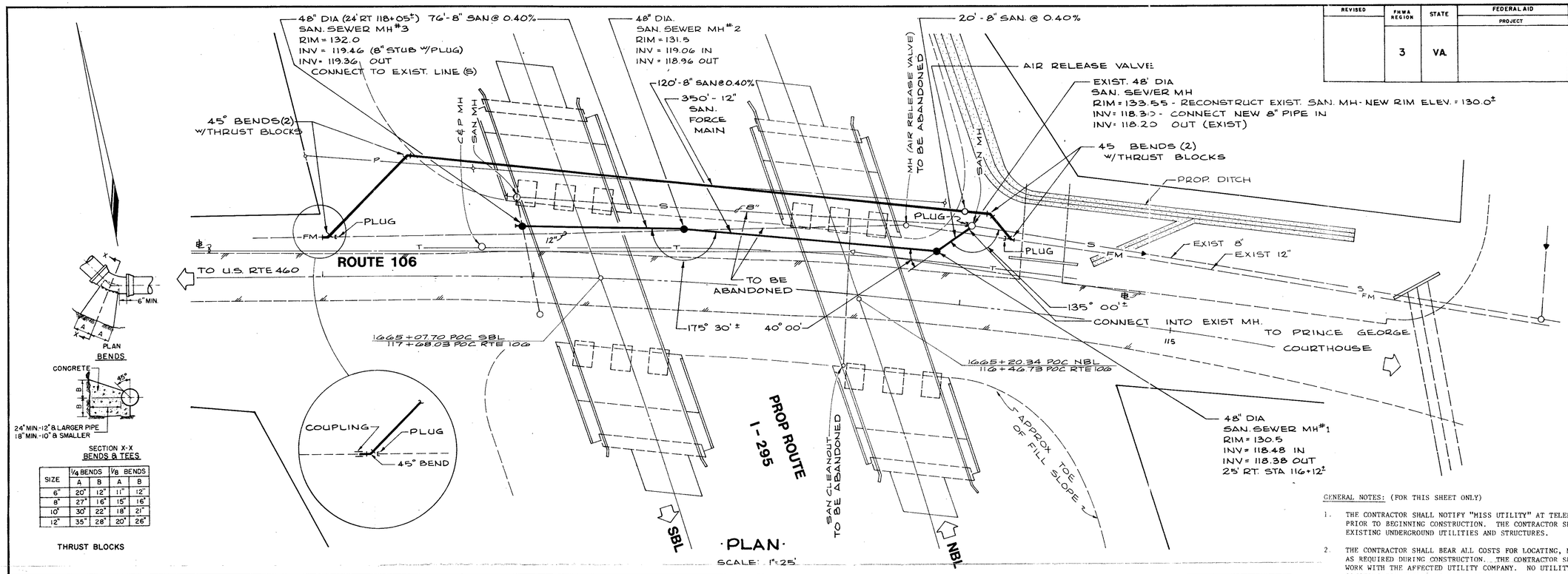
REVISED	FHWA REGION	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	3	VA.		295	0095-074-101, B-302	13( )



SIZE	1/4 BENDS A	1/4 BENDS B	1/8 BENDS A	1/8 BENDS B
6"	20"	12"	11"	12"
8"	27"	16"	15"	16"
10"	30"	22"	18"	21"
12"	35"	28"	20"	26"

GENERAL NOTES: (FOR THIS SHEET ONLY)

1. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT TELEPHONE NUMBER 1-800-552-7001, 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES.

2. THE CONTRACTOR SHALL BEAR ALL COSTS FOR LOCATING, MAINTAINING AND SUPPORTING ALL UTILITIES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL PHASES OF HIS WORK WITH THE AFFECTED UTILITY COMPANY. NO UTILITY CAN BE TAKEN OUT OF SERVICE DURING CONSTRUCTION EXCEPT AS NOTED BELOW.

3. SANITARY SEWER FORCE MAIN PIPE & FITTINGS SHALL BE:

   DUCTILE IRON - CLASS 52, CEMENT LINED AND BITUMINOUS COATED. JOINTS SHALL BE THE SLIP TYPE EXCEPT FOR FITTINGS WHICH SHALL BE THE MECHANICAL JOINT TYPE. FITTINGS SHALL HAVE A MINIMUM PRESSURE RATING OF 350 PSI AND THE SAME COATING AND LINING THE MAIN.

4. SANITARY SEWER GRAVITY PIPE SHALL BE DUCTILE IRON PIPE OF THE SAME CLASS, LINING AND COATING AS THE SANITARY SEWER FORCE MAIN PIPE.

5. MANHOLES SHALL BE PRECAST, V.D.H.&T. STANDARD (MH-2), WITH T-MH-2 ECCENTRIC TAPER UNITS, R-1 RISER UNITS SEALED WITH "O" RINGS AND B-1 OR B-2 BASE UNITS, STEPS (ST-1) GALVANIZED IRON, ALUMINUM OR REINFORCING STEEL WITH RUBBER, AND SHAPED INVERTS (IS-1). FRAME & COVERS SHALL BE STANDARD MH-1 WITH THE WORD "SEWER" IN LIEU OF "VDH&T".

6. ALL SANITARY SEWER PIPE, GRAVITY AND FORCE MAINS, SHALL BE INSTALLED IN CLASS "C" BEDDING.

7. ALL FORCE MAIN FITTINGS SHALL BE ANCHORED WITH CLASS A-3 CONCRETE THRUST BLOCKS (SEE DETAIL) OR RESTRAINED JOINTS. TEMPORARY RESTRAINT SHALL BE PROVIDED WHERE PRESSURE MUST BE APPLIED BEFORE CONCRETE HAS SET AND MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

8. THE FORCE MAIN SHALL BE PRESSURE TESTED AT 150 P.S.I.

9. 2" GATE VALVES SHALL BE ALL BRONZE GATE VALVES OF EITHER SOLID WEDGE OR DOUBLE DISK TAPER SEAT AND SHALL BE EQUIPPED WITH A STANDARD OPERATING HANDWHEEL.

10. FLEXIBLE COUPLINGS SHALL BE EQUAL TO DRESSER STYLE 38.

11. AIR RELEASE VALVES FOR SANITARY SEWER FORCE MAINS SHALL BE EQUAL TO APCO MODEL 400 WITH ACCESORIES AS MANUFACTURED BY THE VALVE AND PRIMER CORPORATION. PIPING SHALL BE TYPE K COPPER WITH BRONZE FITTINGS.

12. CORPORATION STOPS SHALL BE EQUAL TO MUELLER TYPE 110 WITH THREADED OUTLET.

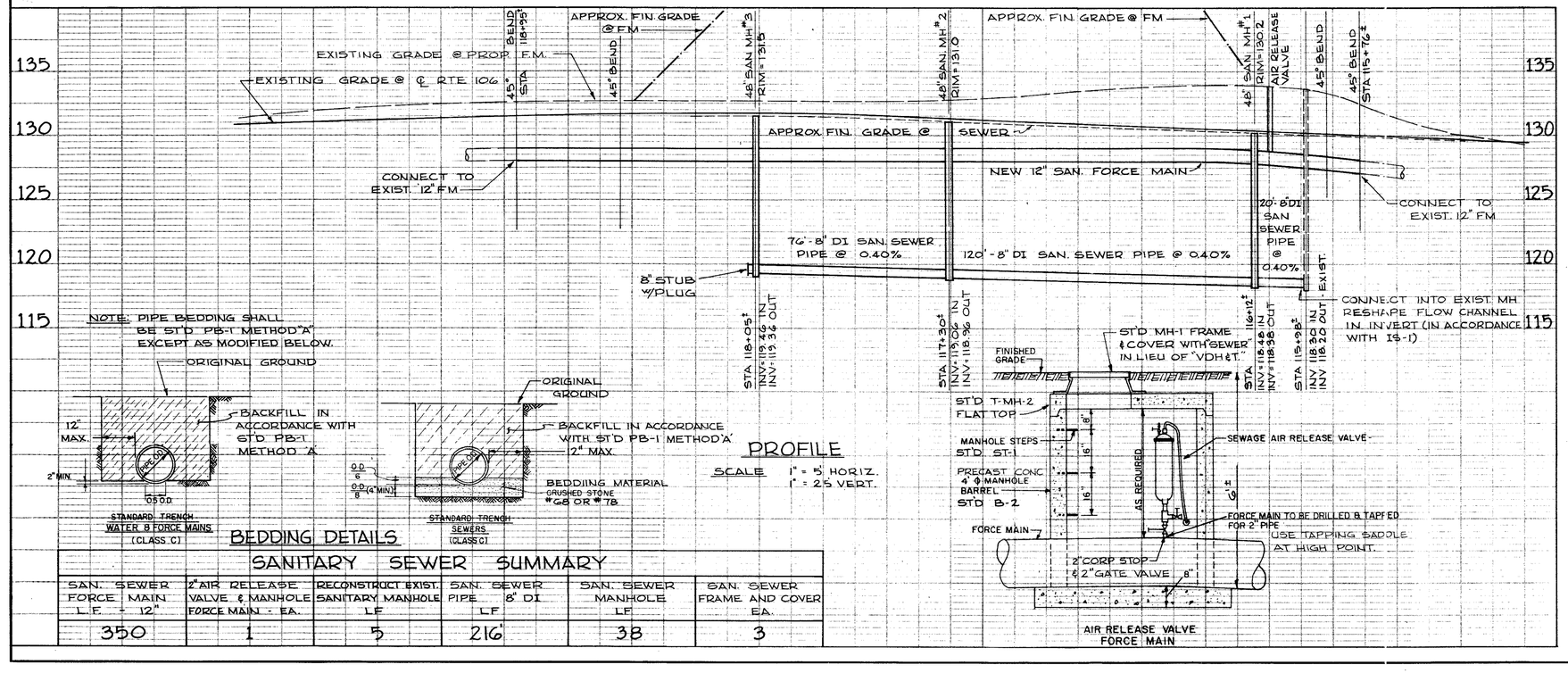
13. ALL WORK SHALL CONFORM TO THE ROAD AND BRIDGE SPECIFICATIONS EXCEPT AS LIMITED OR MODIFIED ABOVE.

SCHEDULING AND COORDINATION

a. FLOW IN GRAVITY SEWERS MUST BE MAINTAINED AT ALL TIME. CONVEY SEWAGE AROUND WORK SITE AS NECESSARY TO MAINTAIN FLOW.

b. SEWAGE FORCE MAIN CANNOT BE OUT OF SERVICE FOR MORE THAN 3 HOURS AND THEN ONLY BETWEEN THE HOURS OF MIDNIGHT AND 6:00 AM UNLESS APPROVED OTHERWISE BY PRINCE GEORGE COUNTY AND THE ENGINEER. ALL PUMPING STATIONS CONNECTED TO THE FORCE MAIN SHALL BE PUMPED TO LOW LEVEL AND THEN SHUT-OFF DURING THE TIME THE SYSTEM MUST BE OUT OF SERVICE. WORK IN PUMP STATIONS SHALL BE PERFORMED BY PRINCE GEORGE COUNTY PERSONNEL.

c. ANY BACKFLOW OUT OF THE FORCE MAIN MUST BE EITHER BLOCKED TEMPORARILY, COLLECTED OR DISCHARGED INTO THE SEWER SYSTEM. THERE MUST BE NO OVERFLOW ONTO THE GROUND OR DISCHARGE INTO SURROUNDING DITCHES OR STREAMS.



SANITARY SEWER SUMMARY

SAN. SEWER FORCE MAIN L.F. - 12"	2" AIR RELEASE VALVE & MANHOLE FORCE MAIN - EA.	RECONSTRUCT EXIST. SANITARY MANHOLE LF	SAN. SEWER PIPE 8" DI LF	SAN. SEWER MANHOLE LF	SAN. SEWER FRAME AND COVER EA.
350	1	5	216	38	3

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A	0095-074-101		13