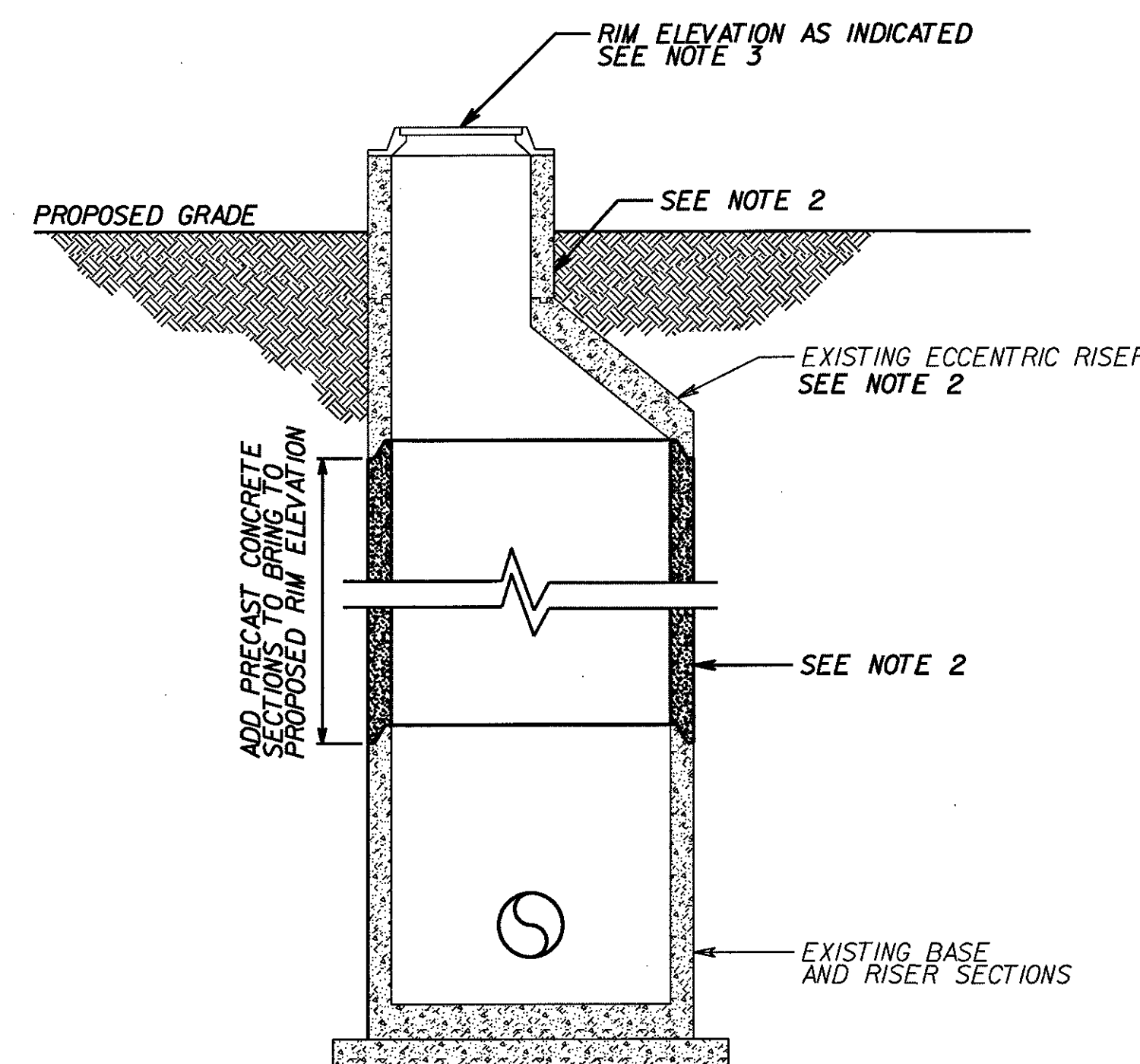




Craig S Riddle
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AECOM TECH. SERV., INC.
ROANOKE, VIRGINIA
UTILITY ENGINEER

[illegible]

NOTES:

1. CONFORM TO WESTERN VIRGINIA WATER AUTHORITY (WVWA) STANDARDS AND SPECIFICATIONS. REMOVE EXISTING 8-INCH PVC SANITARY SEWER PIPE. REPLACE WITH NEW 40-INCH DUCTILE IRON SPECIAL THICKNESS CLASS 5L WITH PROTECTO 40 INTERIOR COATING AND BITUMASTIC OUTER COATING OR WVWA C900, DR 18, PVC PIPE, PRESSURE RATING 235. PROVIDE TRENCH PER SHEET NO. 18. ORIENTATION AND INVERTS OF EXISTING PIPES APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY. CONTRACTOR SHALL MATCH EXISTING PIPE GRADE AND ALIGNMENTS FOR ALL SANITARY SEWER. PROVIDE CONNECTION FOR NEW PIPE CONNECTION TO EXISTING MANHOLE AS DETAILLED.
2. REMOVE EXISTING ECCENTRIC RISER, EXTENSION RINGS AND MANHOLE FRAME. AND COVER. INSTALL 4- FEET DIAMETER PRECAST CONCRETE RISERS (ASTM C1244) WITH 12- INCH DIAMETER REDUCED WALL. ELEVATION INDICATED. REUSE EXISTING ECCENTRIC RISER, PROVIDE BUTYL MASTIC JOINT SEALER OR GASKETS MEETING ASTM C443, AND ASTM C1244 TESTING STANDARD FOR ALL JOINTS BETWEEN PRECAST SECTIONS.
3. PROVIDE NEW WVWA WATERTIGHT FRAME AND COVER FOR EXISTING MANHOLES. PROVIDE WVWA BOLT-DOWN COVER FOR EXISTING MANHOLE 36, RIM ELEVATION FOR EXISTING MANHOLE 39 AND 38 SHALL BE MINIMUM 2-INCH AND MAXIMUM 4-INCH ABOVE FINISH GRADE. RIM ELEVATION FOR EXISTING MANHOLE 36 SHALL BE MINIMUM 18-INCH AND MAXIMUM 24-INCH ABOVE FINISH GRADE. PROVIDE WVWA ADJUSTMENT RINGS IF REQUIRED. ASTM MANHOLE FRAME AND COVERS TO ECCENTRIC RISER PER WVWA STANDARD.
4. CONTRACTOR SHALL PROVIDE BY-PASS PUMPING OF RAW SEWAGE AS REQUIRED BY WATER AND SANITARY UTILITY NOTE 10- SHEET 18.
5. GROUT AND FILLET TO SHAPE EXISTING MANHOLE INVERTS AS REQUIRED TO PREVENT SOLIDS DEPOSITION AND PROVIDE POSITIVE DRAINAGE.

Profile view of a sanitary sewer line. The vertical axis shows elevation in feet from 1170 to 1225. The horizontal axis shows stationing from 10+00.00 to 13+00.00. The profile includes existing and proposed grades, existing and proposed rim elevations, and invert elevations. Key features include two manholes (MH 39 and MH 36), two proposed risers, and two sections of pipe to be replaced (259 LF and 68 LF). The profile is labeled with 'EXISTING GRADE' and 'PROPOSED GRADE'.

EXISTING MH 39
STA 10+00
PROPOSED RIM ELEVATION 1209.26'-1/2"
EXISTING RIM ELEV. 1204.52'
8" INVERT OUT 1193.22'
8" PVC INVERT IN 1192.79'
8" INVERT IN 1201.98'
4" INVERT IN 1202.83'
VERTICAL RISER ADDITION
4.8 LF

EXISTING MH 36
STA 12+52.59
PROPOSED RIM ELEV. 1208.74'-1/2"
EXISTING RIM ELEV. 1199.10'
8" INVERT OUT 1196.93'
8" PVC INVERT IN 1190.95'
8" INVERT IN 1190.39'
VERTICAL RISER ADDITION
9.7 LF

EXISTING MH 36
STA 13+21
PROPOSED RIM ELEV. 1201.50'-1/2"
EXISTING RIM ELEV. 1198.95'
10" INVERT OUT 1184.68"
8" PVC INVERT IN 1186.34"
10" INVERT IN 1185.79"
VERTICAL RISER ADDITION
2.1 LF

REPLACE 259 LF
SANITARY SEWER PIPE
PER NOTE 1 THIS SHEET
Pressure Tested 4-25-16
PASSED

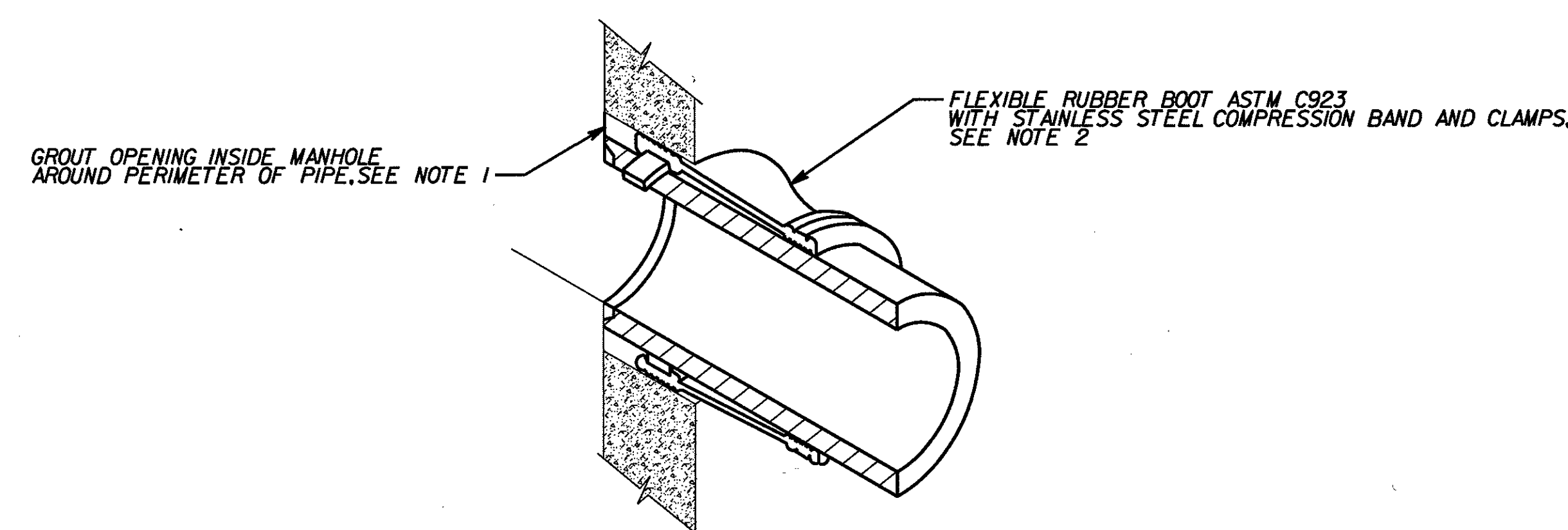
REPLACE 68 LF
SANITARY SEWER PIPE
PER NOTE 1 THIS SHEET
Pressure Tested 4-25-16
PASSED

PROPOSED GRADE
EXIST. GRADE

HORIZONTAL SCALE: SCALE

VERTICAL SCALE: SCALE

MATERIALS FOR SAN. SEWER
 RISERS: PERMATILE PRE-CAST 48"
 PIPE: NATIONAL 8" DR 14 C900 PVC
 FRAMES: COVERS: U.S. FOUNDARY



NOTES:

1. GROUT SHALL BE VDOT CLASS A3 CONCRETE.
2. PROVIDE FLEXIBLE MANHOLE BOOT AS MANUFACTURED BY PRES-SEAL GASKET CORPORATION OR EQUAL.

NEW PIPE CONNECTION
TO EXISTING MANHOLE DETAIL

	PROJECT 0081-011-120	SHEET NO. 18(5)
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