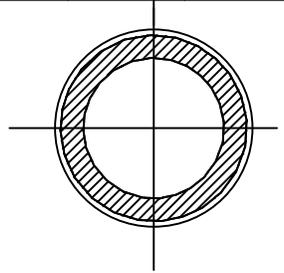


PIPE SIZE	NUMBER OF STRIPS OF RAM-NEK	WIDTH OF GALVANIZED STEEL COLLAR	NUMBER OF STAINLESS STEEL BANDS
6"	3	9"	3
8"	3	9"	3
10"	5	12"	5
12"	5	12"	5



1. SEWER REPAIR CLAMP TO BE USED ON PIPE NOT GREATER THAN 12" IN DIAMETER.
2. SEWER REPAIR CLAMP NOT TO BE USED ON GAPS GREATER THAN 1/2".
3. PIPE SHALL BE CLEANED OF DIRT, GREASE, ETC., WITH SCRUB-BRUSH AND CLEAN WATER AND ALLOWED TO DRY BEFORE APPLYING CLAMP. THE CRACKED PIPE SHALL BE RE-ALIGNED TO THE SLOPE OF ADJACENT PIPE BEFORE INSTALLING THE CLAMP.
4. THE AREA ON THE PIPE WHICH THE CLAMP IS TO BE APPLIED SHALL BE GIVEN A THIN COAT ROOFING CEMENT.
5. STRIPS OF "RAM-NEK" ARE TO BE APPLIED TO THE PIPE SUCH THAT NO STRIP STRETCHES MORE THAN 1". ADJACENT STRIPS OF "RAM-NEK" SHALL ABUT EACH OTHER BUT NOT OVERLAP. THE "RAM-NEK" SHALL COMPLETELY SURROUND THE PIPE WITH ONE TURN OF "RAM-NEK" CENTERED OVER THE CRACK. THE "RAM-NEK" SHALL BE APPLIED TO THE PIPE ONE LAYER THICK.
6. A GALVANIZED STEEL COLLAR SHALL BE WRAPPED TIGHTLY AROUND THE "RAM-NEK" AND THE TWO ENDS OF THE GALVANIZED STEEL COLLAR SHALL OVERLAP NOT MORE THAN 4" NOR LESS THAN 3". THE GALVANIZED STEEL COLLAR SHALL BE CENTERED OVER THE CRACK.
7. THE FIRST STAINLESS STEEL BAND SHALL BE PLACED SUCH THAT IT RESTS ON THE GALVANIZED STEEL COLLAR AND ABOVE THE CRACK. SUBSEQUENT BANDS SHALL BE PLACED ALTERNATELY, ON SIDE OF THE MIDDLE AND THEN ON THE OTHER SIDE. THE BUCKLES FOR THE STAINLESS STEEL BAND SHALL BE PLACED SO THAT THEY REST ON THE AREA OF OVERLAP OF THE TWO ENDS OF THE GALVANIZED STEEL COLLAR. ADJACENT BUCKLES SHALL BE STAGGERED. NO STAINLESS STEEL BANDS SHALL BE PLACED OVER THE GALVANIZED COLLAR WHERE SAID COLLAR EXTENDS PAST THE "RAM-NEK". THE STAINLESS STEEL BANDS SHALL BE TIGHTENED WITH THE APPROPRIATE BANDING TOOL SUCH THAT THE "RAM-NEK" YIELDS SLIGHTLY.
8. IN CASES WHERE THE CRACK IN THE PIPE IS NOT PERPENDICULAR TO THE AXIS OF THE PIPE. THE "RAM-NEK" SHALL EXTEND A DISTANCE OF 3" (6" & 8") OR 5" (10" & 12") PIPE ALONG THE AXIS OF THE PIPE FROM ANY POINT OF THE CRACK. FOR THESE CASES, THE GALVANIZED STEEL COLLAR SHALL EXTEND A DISTANCE OF 2" BEYOND EACH END OF THE "RAM-NEK" ALONG THE PIPE AXIS. THE NUMBER OF STAINLESS STEEL BANDS TO BE USED IN THESE CASES SHALL CONFORM TO THE INCLUDED CHART FOR THE GIVEN PIPE SIZE, OR AS DIRECTED BY THE ENGINEER.
9. A BURLAP DIAPER SHALL BE PUT AROUND THE CLAMP SO THAT IT EXTENDS 2 1/2" PAST EACH END OF GALVANIZED STEEL COLLAR ALONG THE PIPE AXIS. THE DIAPER SHALL THAN BE FILLED WITH A SAND-CEMENT MORTAR IN A RATIO OF 2 TO 1 TO A MINIMUM THICKNESS OF 1 1/2". THE MORTAR SHALL COMPLETELY FILL THE VOID BETWEEN THE PIPE AND THE GALVANIZED STEEL COLLAR WHERE SAID COLLAR EXTENDS PAST THE "RAM-NEK". THE MORTAR SHALL BE OF A POURABLE CONSISTENCY.
10. THE GALVANIZED STEEL COLLAR SHALL BE OF 20 TO 24 GAGE SHEET METAL.
11. THE STAINLESS STEEL BANDS SHALL BE 3/4" CORROSION RESISTANT BAND-IT BAND, OR EQUAL.
12. THE STAINLESS STEEL BUCKLES SHALL BE 3/4" CORROSION RESISTANT BAND-IT BUCKLES, OR EQUAL.
13. THE STAINLESS STEEL BANDS AND BUCKLES SHALL BE APPLIED TO THE CLAMP USING A BAND-IT TOOL BANDING MACHINE, OR EQUAL.
14. IN SIZES GREATER THAN 12", METHOD OF REPAIR MUST BE SUBMITTED FOR REVIEW.



**CHARLES COUNTY GOVERNMENT**  
 DEPARTMENT OF PLANNING & GROWTH MANAGEMENT  
 APPROVED: Raymond N. Swemaker, Jr. Aug 8, 2023  
Raymond N. Swemaker, Jr. (Aug 8, 2023 12:00 EDT)  
 CHIEF OF CODES, PERMITS, & INSPECTION SERVICES DATE  
Andy B. Ellis Aug 8, 2023  
Andy B. Ellis (Aug 8, 2023 14:40 EDT)  
 PROFESSIONAL ENGINEER DATE

STANDARD DETAIL  
 METHOD OF REPAIRING  
 CRACKED CONCRETE  
 OR VITRIFIED CLAY  
 SEWER PIPE

S
5.00
REVISIONS: