GROOVE TONGUE JOINTS AND STUD M-198. 3" OR 6" CONCRETE GRADE RINGS WITH FINISH TOP AND BOTTOM SURFACES PLACED AT A MAXIMUM DISTANCE OF 21" FROM MANUFACTURE. PLACE AT 16" CEN. ON CEN. 45' EQUAL STEPS TO BE INSTALLED DURING MANHOLE.

Press Wedge II, Res-Seal, Link-Seal, or Kor-N-Seal boot from centerline of sewer. First step to be channel. Minimum encaement = 12" cut and removed. Bottom half of pipe concrete cured, top half of pipe to be concrete openings encaed in and equal. See note #18.

AFTER MANHOLE IS CONSTRUCTED AND 04101, TYPE II, GRADE 49108, M.A. INSTALLATION GUIDELINES OF RISER-WRAP KOR-N-SEAL BOOT (WITH STAINLESS STEEL METAL WASHER, 3/4", 1/16" THICK) TO REMAIN IN PLACE AS FLOW CHANNEL.

No. 1040 AGS WITH PRESSURE TIGHT COVER. Removal and/or replacement of any installation which does not meet minimum manhole requirements on manholes shall be provided to maintain joint flexibility. Provide sweeping channel as shown. Springline of pipe top bench shall 2" above top of rifled joint wrap or approved equal. See note #32.

For water-tightness wrap to have finish surface. Apply epoxy coating approved by engineer, to protect corrosion. Apply neoprene sealing washer and nuts. Testing bulkhead with top to existing manhole. Testing bulkhead with top to existing manhole.

NOTE: REMOVAL AND/OR REPLACEMENT OF ANY INSTALLATION WHICH DOES NOT MEET THE CITY OF N.Y. DESIGN MANUAL OR THESE STANDARD DETAILS MAY BE REQUIRED AT THE PROPERTY OWNER'S EXPENSE.
**Internal Drop Manhole Connection**

- Use 24" x 24" cast iron or cast aluminum joint or hub for manhole insert.
- Use 6" service connection with precast base.
- Use 1/2" machine-drilled hole in lead with chemically welded joint.
- Use approved 6" Dia House Lead with chemically welded joint.

**External Drop Manhole Connection with Precast Base**

- Use 24" x 24" cast iron or cast aluminum joint or hub for manhole insert.
- Use 6" service connection with precast base.
- Use 1/2" machine-drilled hole in lead with chemically welded joint.
- Use approved 6" Dia House Lead with chemically welded joint.

**Sewer Tap - All Sizes of Manhole, Stiffened Clay Pipe**

- Use 6" service connection with precast base.
- Use approved 6" Dia House Lead with chemically welded joint.

**Construction Notes**

- Sewer size up to 18"
- Use 6A tamped in place (maximum 6" layers).
- Use minimum 1/8" fall per foot.
- Use 1/4" fall per foot for new sanitary sewer system construction.

- Internal taping per footnote.
- Use appropriate fittings and materials for pipe and joint manufacturer.
- Use approved equivalent PVC pipe, ASTM D3033.

- Use Taps to existing manholes shall exist uniformly tamped.

- Use Gallery pipe and joint manufacturer.
- Use approved equivalent ductile iron casting.