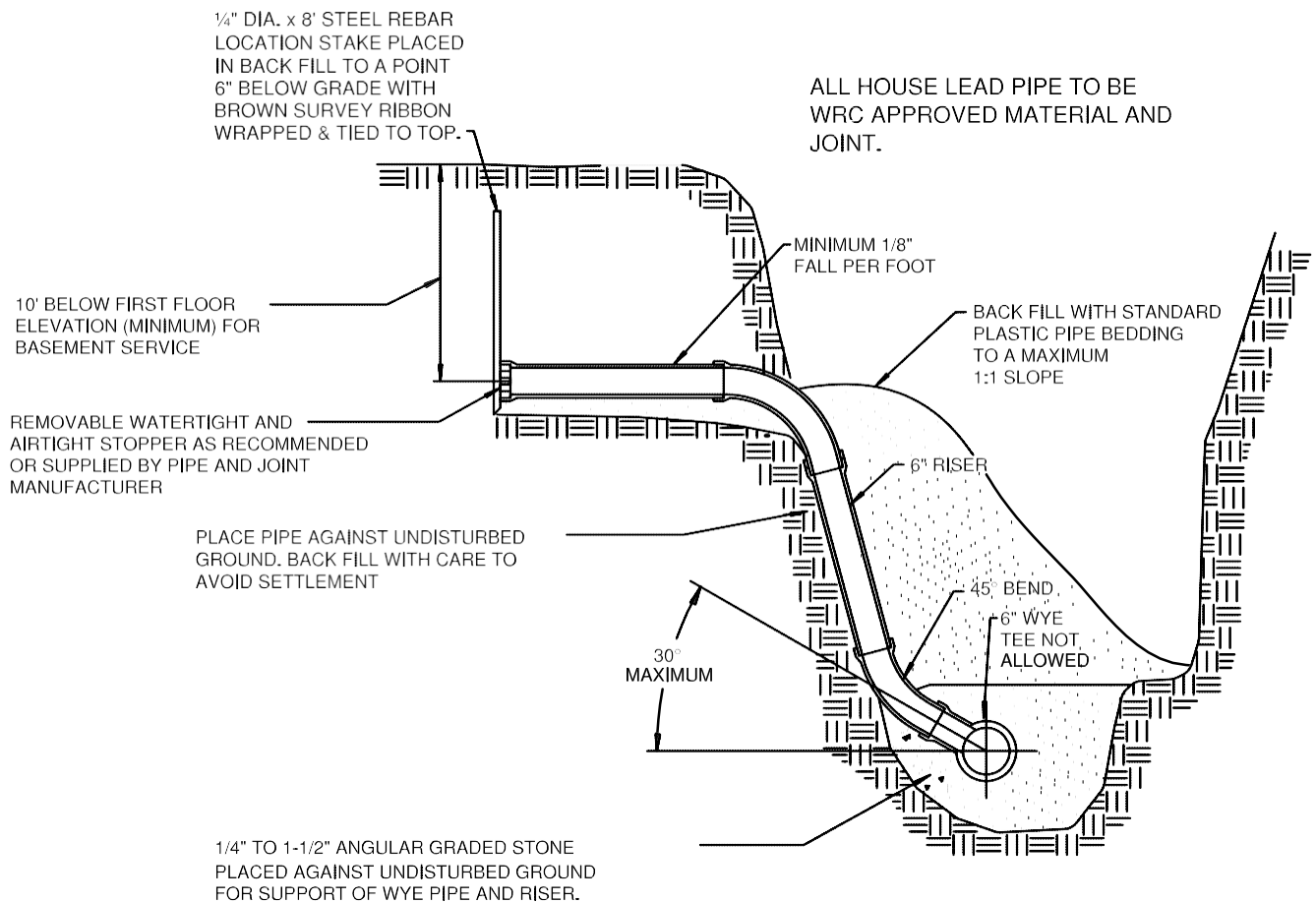


WATER RESOURCES COMMISSIONER

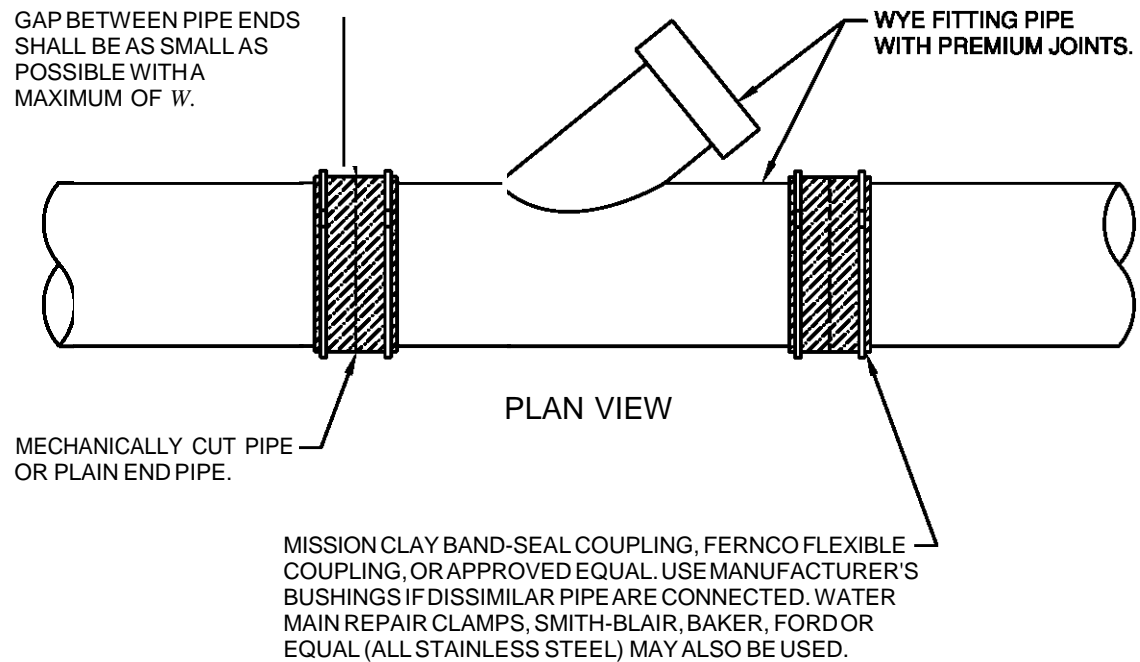
Gravity Building Lead Requirements and Details

1. All building lead work must be performed under Water Resources Commissioner (WRC) and/or local unit of government inspection.
2. For all WRC-operated systems, call 248-858-1105 24-hours in advance of work to schedule inspection.
3. No sanitary sewer may be used as a cleanout or dewatering outlet.
4. Where an existing building lead is being extended, dissimilar types and sizes of pipe shall be joined using an WRC approved adapter.
5. Approved building lead pipe for gravity sewer leads:
 - a. ABS plastic, ASTM D2751, SDR 23.5.
 - b. PVC plastic, ASTM D3034, SDR 23.5 or ASTM D2665, Schedule 40.
 - c. Ductile Iron Pipe, American Water Works Association (AWWA) C-104/A21.4, Class 54. Joints shall be Super Bel Tite, Tyton, Ty-Seal, Multi-Tite, Dual-Tite, or Veri-Tite.
 - d. Any deviations from specified above require approval by WRC.
6. Allowable types of sewer pipe adapters:
 - a. Fernco adapter/reducer donuts.
 - b. Fernco flexible coupling.
 - c. Mission clay band-seal coupling.
 - d. Smith-Blair stainless steel repair clamp.
 - e. Huron-Clinton O-ring adapter.
 - f. Hamilton-Kent Gear Grip adapter.
 - g. Plant fabricated joint conversion pipe.



HOUSE LEAD DETAIL

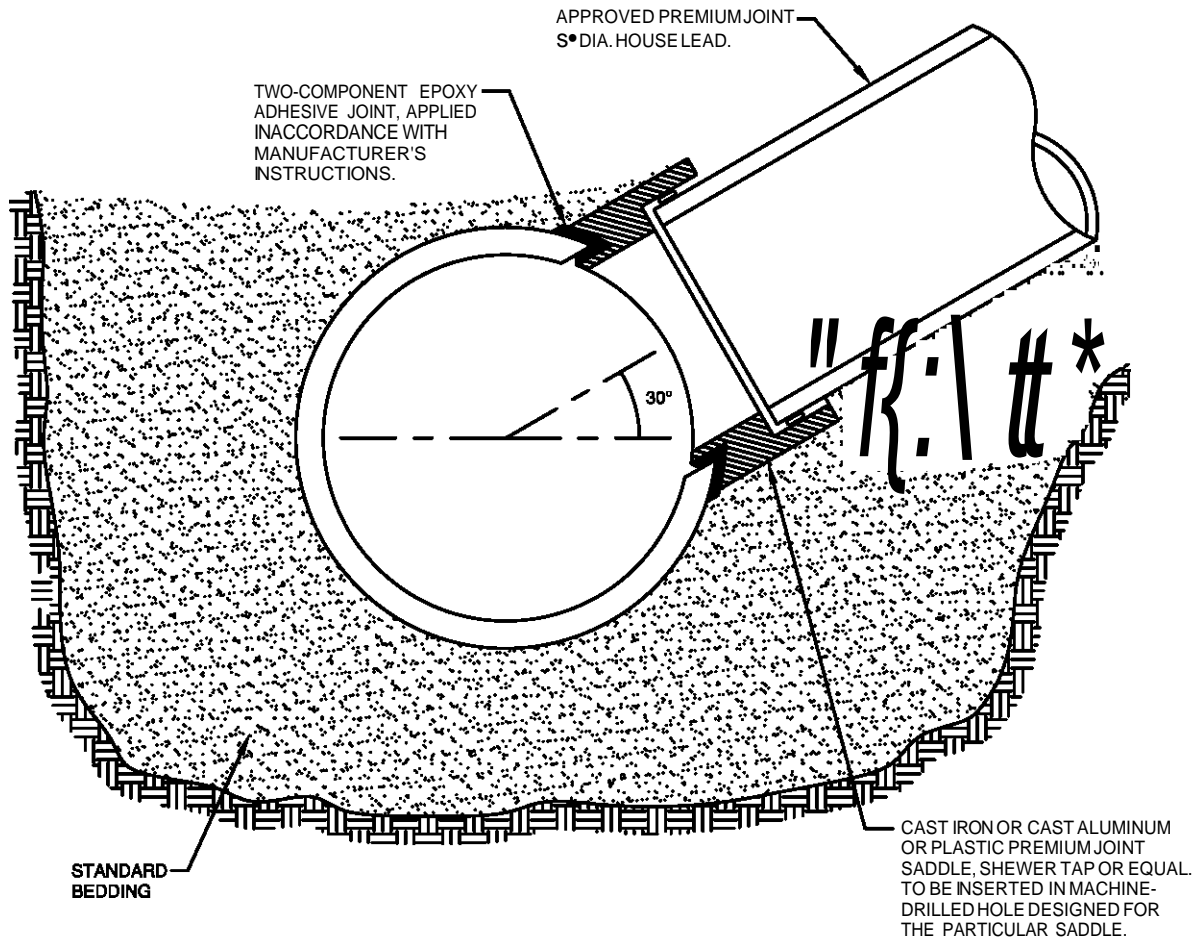
DETAILS OF HOUSE LEAD CONNECTIONS TO MAIN SEWER WHERE WYE OPENINGS ARE NOT PROVIDED



NOTE: PIPE SHALL BE BEDDED IN STANDARD PLASTIC PIPE BEDDING.

WYE PIPE INSERTION WITH FLEXIBLE COUPLINGS (RIGID PIPE)

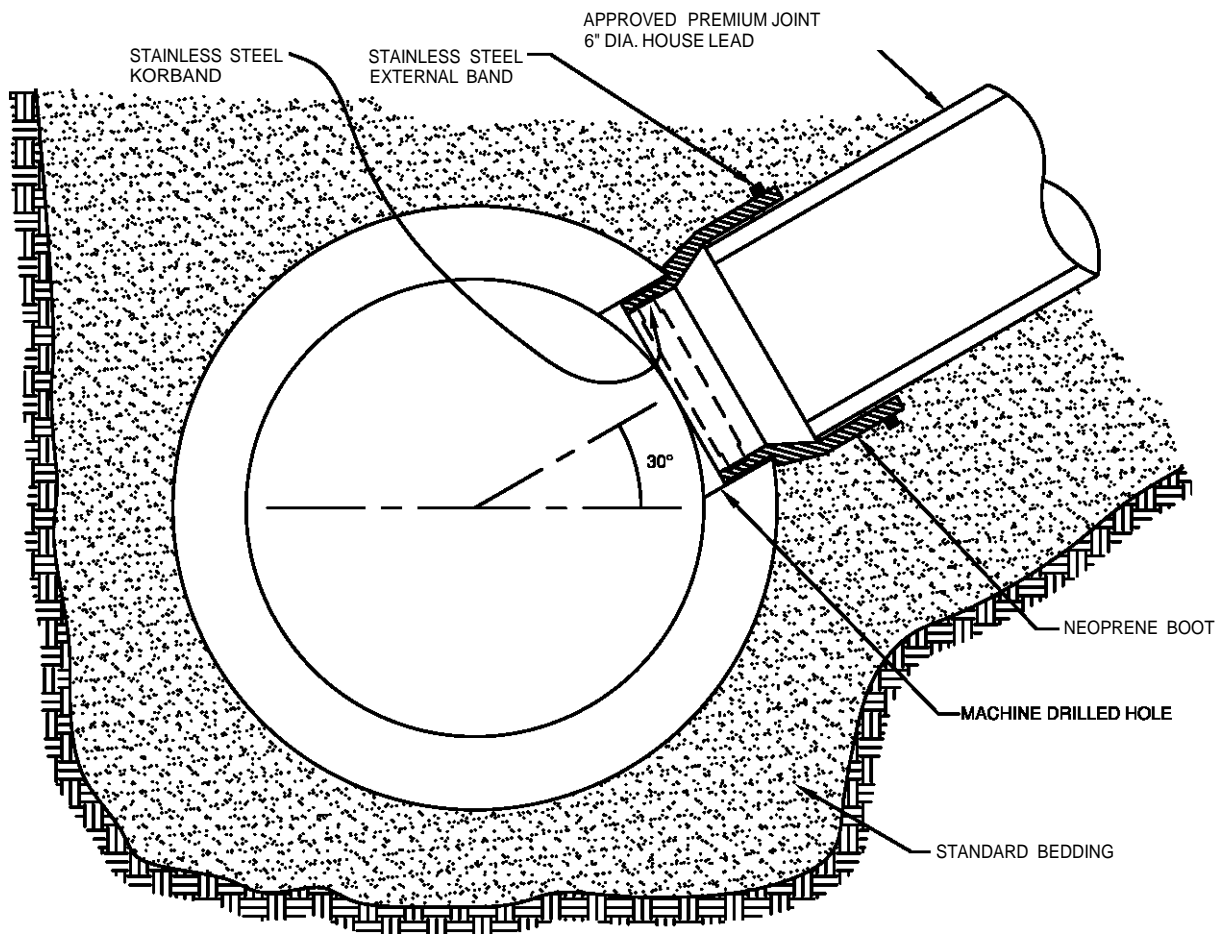
DETAILS OF HOUSE LEAD CONNECTIONS TO MAIN SEWER WHERE WYE OPENINGS ARE NOT PROVIDED



NOTE: SURFACE OF MAIN SEWER SHALL BE CLEANED WITH AN ABRASIVE GRINDER PRIOR TO EPOXY APPLICATION. DUE TO VARIATION OF SET-UP TIME OF EPOXY ADHESIVE WITH TEMPERATURE, ANCHOR STRAPS SHALL BE USED TO SECURE SADDLE IN POSITION IN COLD WEATHER OR WHENEVER WORK IS TO PROCEED PRIOR TO COMPLETE CURE OF EPOXY.

SADDLE TAP-ALL SIZES OF MAIN SEWER PIPES
(RIGID PIPE)

DETAILS OF HOUSE LEAD CONNECTIONS TO MAIN SEWER
WHERE WYE OPENINGS ARE NOT PROVIDED



KOR-N-TEE TAP FOR CONCRETE PIPE