

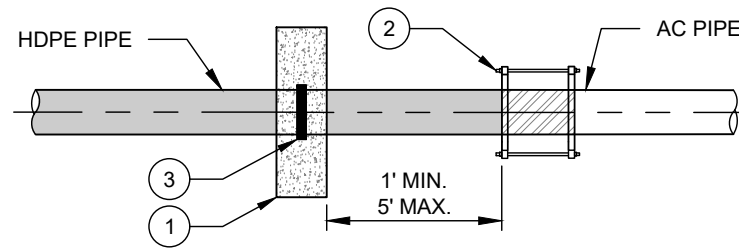
NOTES TO DESIGNER

- A. THIS DETAIL APPLIES ONLY TO 4" THROUGH 12" PIPE TRANSITIONS. LARGER DIAMETER TRANSITIONS REQUIRE SPECIFIC DESIGN AND APPROVAL.
- B. CLTW PREFERS JOINING HDPE USING BUTT FUSION JOINING. IF BUTT FUSION IS NOT POSSIBLE THEN ELECTROFUSION FITTINGS ARE ALLOWED. IF ELECTROFUSION FITTINGS ARE NOT POSSIBLE, THEN MECHANICAL FITTINGS ARE ALLOWED. CLTW DOES NOT ALLOW BURIED FLANGED JOINTS.

**HDPE TO ASBESTOS CEMENT PIPE
(4" TO 12" ONLY)
TRANSITION ASSEMBLY**

NO. DESCRIPTION:

- 1. WALL BLOCKING, REFER TO APPROPRIATE STANDARD DETAIL.
- 2. RESTRAINED MECHANICAL COUPLING OR REDUCING MECHANICAL COUPLING. STEEL PIPE STIFFENER REQUIRED ON HDPE.
- 3. WALL ANCHOR OR FLEX RESTRAINT, REFER TO APPROPRIATE STANDARD DETAIL.



TRANSITION NOTES:

- A. FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C906.
- B. HIGH DENSITY POLYETHYLENE (HDPE) FITTINGS SHALL BE MOLDED OR FABRICATED BY PIPE MANUFACTURER.
- C. MECHANICAL FITTINGS SHALL BE SPECIFICALLY DESIGNED FOR USE WITH HDPE PIPE.
- D. STAINLESS STEEL INTERNAL STIFFENERS SHALL BE INSTALLED IN THE END OF THE HDPE PIPE WHEN HDPE PIPE IS INSERTED INTO THE BELL END OF NON-HDPE PIPE, VALVE, FITTING, OR INTO THE HUB OF A BOLTED COUPLING. INTERNAL STIFFENER CAN BE WEDGE TYPE OR SOLID BODY. STIFFENER WILL BE RATED FOR DR AND ID OF PIPE. FOR WATER, 304 OR 316 STAINLESS STEEL IS ALLOWED. FOR WASTEWATER, 316 IS REQUIRED.
- E. MECHANICAL JOINT ADAPTERS SHALL BE PE4710 AND CAN BE MADE TO ASTM D3261. IF MACHINED, ADAPTERS MUST MEET THE REQUIREMENTS OF ASTM F2206. ADAPTERS SHALL HAVE A PRESSURE RATING EQUAL TO THE PIPE.
- F. WHEN BELL END IS ENCOUNTERED, FIELD CUT PIPE TO FORM A PLAIN END.

ASBESTOS NOTES:

- A. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE, IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM). SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS.
- B. WRITTEN NOTIFICATION TO THE NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES OR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION OF MECKLENBURG COUNTY 10 DAYS PRIOR COMMENCING WITH THE REMOVAL OF AC PIPE IS REQUIRED. AT EACH LOCATION SHOWN IN THE PLANS AND/OR IDENTIFIED BY THE CONTRACTOR TO INVOLVE AC PIPE, THE CONTRACTOR WILL BE REQUIRED TO REMOVE THE NECESSARY AMOUNT OF AC PIPE TO MAKE THE CONNECTION WITHOUT CREATING ANY FRIABLE MATERIAL. THE CONTRACTOR SHALL REMOVE WHOLE SECTIONS OF AC PIPE AND MAKE THE TIE-IN AT THE NEAREST JOINT. CONTRACTOR WILL UNCOVER NO MORE THAN 20- FEET OF AC PIPE AT ANY TIME. CUTTING OF AC PIPE SHALL BE MINIMIZED. THE CONTRACTOR SHALL REMOVE ANY CUT AC PIPE AND STORE IT IN A SECURE, ENGINEER APPROVED LOCATION FOR EVENTUAL DISPOSAL BY CONTRACTOR. PRIOR TO PERFORMING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER OF THE UTILITY OF THE WORK SCHEDULE 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
- C. WHEN WORKING WITH AC PIPES, CONTRACTOR WILL COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) REGULATIONS, INCLUDING BUT NOT LIMITED TO USE OF PERSONAL PROTECTIVE EQUIPMENT, SPECIALIZED TRAINING, ACCREDITATION, USE OF WET WORK PROCEDURES TO CUT AND REMOVE AC PIPE, AND HANDLING AND DISPOSAL OF AC PIPE AND MATERIAL INCLUDING CONTAMINATED SOIL.
- D. AC PIPE WILL BE ABANDONED BY REMOVAL OR ABANDON IN PLACE BY GROUTING. ALL AC PIPE AND MATERIALS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR WILL PROVIDE THE OWNER WITH DISPOSAL RECEIPTS SHOWING PROPER DISPOSAL AT AN AUTHORIZED FACILITY.