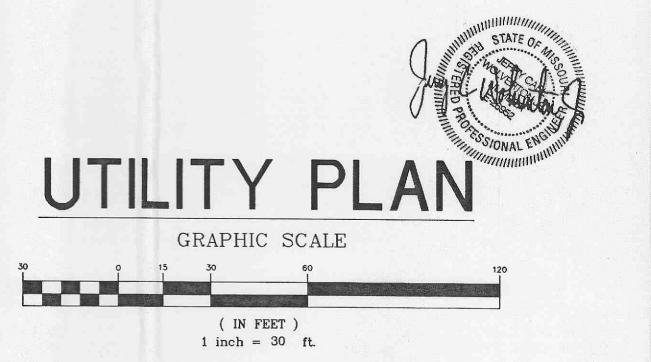
CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD. CONDUIT AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY,

- 1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED
- 2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- 3. ALL SANITARY SEWER LINES ARE TO BE PVC AND SHALL CONFORM TO ASTM SPECIFICATION D 3034. THE MINIMUM WALL THICKNESS SHALL CONFORM TO ASTM D 2321 FOR CLASS I MATERIALS, INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D 2321 AND/OR MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT. ALL JOINTS FOR PVC PIPE SHALL BE GASKETED JOINTS WITH A GASKET CONFINED IN EITHER THE SPIGOT END OR THE END OF THE PIPE. RUBBER GASKET SHALL CONFORM TO ASTM SPECIFICATION D 1869. GASKETS SHALL BE NEOPRENE OR OTHER SYNTHETIC MATERIAL. NATURAL RUBBER GASKETS WILL NOT BE ACCEPTABLE. ALL FITTINGS SHALL BE SADDLE TYPE FITTINGS WITH STAINLESS STEEL BANDS OR PVC PLASTIC. ALL FITTINGS SHALL BE SUITABLE FOR ASSEMBLY TO (4) FOUR OR (6) SIX INCH BUILDING SEWERS.
- ALL WATER LINES AND APPERTURES TO MEET THE REQUIREMENT OF THE DISTRICT II THE MISSOURI DEPARTMENT OF NATURAL RESOURCES COUNTY PLUMBING CODE.
- ALL WATER LINES SHALL BE PVC AND SHALL CONFORM TO ASTM SPECIFICATION D 2441. THE MATERIAL USED TO PRODUCE THE PIPE SHALL CONFORM TO ASTM D 1784, TYPE 1 GRADE 1, TWO THOUSAND(2000) POUNDS PER SQUARE INCH(PSI) DESIGN STRESS. ALL WATER MAIN SHALL BE SDR 21 AND SHALL BE RATED FOR TWO HUNDRED(200) PSI WORKING PRESSURE AT 73.4' DEGREES F.
- 6. ALL WATER MAIN FITTINGS SHALL BE DUCTILE IRON CONFORMING TO THE REQUIREMENTS OF A.S.A. STANDARD A 21.10 WITH A PRESSURE RATING OF THREE HUNDRED FIFTY(350) PSI. THE FITTING SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH A.S.A. 21.4 AND EXTERIOR SHALL BE COATED IN ACCORDANCE WITH A.S.A. STANDARD A 21.10 JOINTING FOR PIPES OR PUSH-ON TYPE, ALL FITTINGS SHALL HAVE MECHANICAL JOINTS, THE JOINTS SHALL CONFORM TO A.S.A. STANDARD A 21,11 AND ALL GASKETS SHALL BE SYNTHETIC RUBBER.
- 7. ALL GATE VALVES SHALL BE AWWA APPROVED FOR 200 POUNDS WORKING PRESSURE; MUELLER IRON BODY DOUBLE DISC GATE VALVE WITH 2 INCH SQUARE WRENCH NUT; PARALLEL SEATS-BRONZE MOUNTED, WITH ADAPTER AND COUPLINGS FOR PVC PIPE.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET. ALL TRENCH CONSTRUCTION SHALL BE PER OSHA/ STATE REQUIREMENTS.
- 9. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" APART (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
- 10. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-6" COVER ON ALL WATERLINES AND 3'-6" ON ALL SANITARY SEWER LINES.
- 11. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
- 12. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- 13. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS OUTSIDE PAVED AREAS.
- 14. CONTRACTOR SHALL COORDINATE WITH BUILDING ARCHITECT AND TELEPHONE COMPANY FOR EXACT LOCATIONS OF TELEPHONE ENTRIES TO SHOPS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDUITS, PULL WIRES, TRENCHING, ETC. REQUIRED BY SOUTHWESTERN BELL. TRENCHING, ETC. REQUIRED BY SOUTHWESTERN BELL.
- 15. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
- 16. CONNECTION FROM THE METER TO SITE UTILITY LINES SHALL BE MADE BY BUILDING CONTRACTOR.
- 17. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
- 18. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- 19. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- 20. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- 21. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 22. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF
- 23. CONTRACTOR SHALL MAINTAIN MINIMUM HORIZONTAL CLEARANCE BETWEEN LIGHT POLES AND OVERHEAD ELECTRICAL LINES AS REQUIRED BY THE ELECTRIC COMPANY.
- 24. CONTRACTOR SHALL COORDINATE WITH BUILDING ARCHITECT AND ELECTRIC COMPANY FOR EXACT LOCATION OF ELECTRIC ENTRY FOR SHOPS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDUITS, TRENCHING, CABLES, ETC. REQUIRED BY ELECTRIC COMPANY. THE SERVICE DROPS FOR THE STRIP STORES WILL BE FROM THE TRANSFORMER TO PRE-BUSSED TERMINAL BOXES. ELECTRIC COMPANY WILL SPECIFY THE NUMBER AND SIZE OF THE CABLES AND CONDUITS TO THE PRE-BUSSED TERMINAL BOXES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL THE CABLES AND CONDUITS. BUT ELECTRIC COMPANY WILL TAKE OVER OWNERSHIP, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY TREE TRIMMING FOR THE LINE EXTENSION AND INSTALLING SECONDARY CONDUITS AND CABLES.
- 25. CONTRACTOR SHALL INSTALL A 5/8" DOMESTIC METER W/ GATE VALVE IN VALVE BOX ON A 3/4" DOMESTIC WATERLINE TO MEET CITY SPECIFICATIONS FOR SERVICE TO SHOPS (TYPICAL), CONTRACTOR SHALL COORDINATE WITH BUILDING ARCHITECT FOR THE EXACT NUMBER AND LOCATION OF WATER CONNECTIONS TO SHOPS.
- 26. CONTRACTOR SHALL COORDINATE WITH THE BUILDING ARCHITECT FOR THE LOCATION OF SANITARY SEWER LATERALS TO SERVE SHOPS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION TO SANITARY SEWER LINE, CLEAN OUTS, ETC. AS REQUIRED BY CODE.
- 27. CONTRACTOR SHALL INSTALL A BACKFLOW PREVENTION ASSEMBLY ON EACH WATER SERVICE LINE INSIDE THE BUILDING. THIS SHALL INCLUDE BUT NOT BE LIMITED TO BACKFLOW PREVENTORS, DOUBLE CHECK VALVE ASSEMBLY, GATE VALVES, ETC. TO MEET THE GOVERNING AUTHORITIES SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH ARCH. PLANS.
- 28. ALL SANITARY SEWER MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48".



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