

NO.	REVISIONS

PopEyes
 NASHVILLE ROAD
 BOWLING GREEN, KY 42103

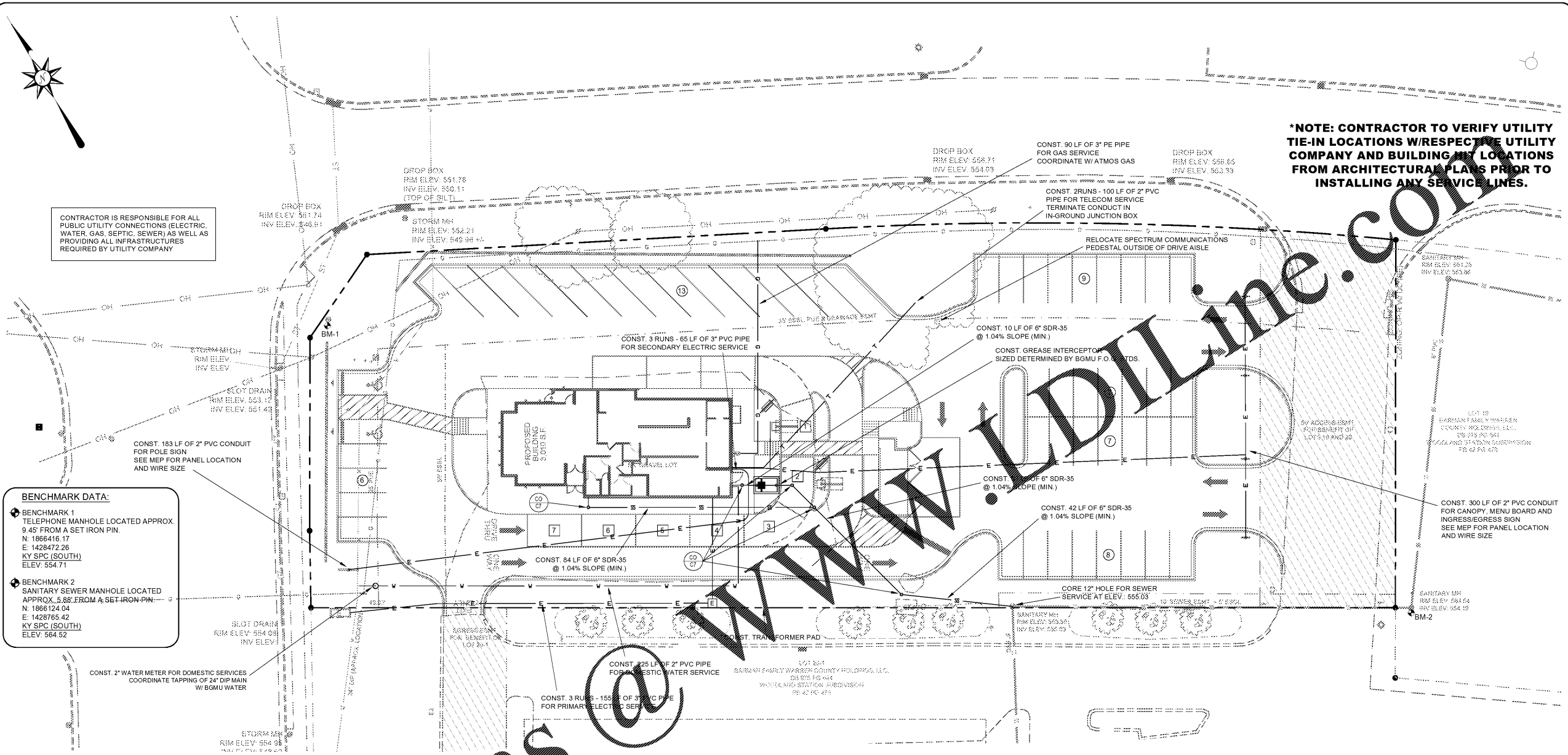
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JOB NUMBER: 20-1338-L
 DATE: 04-23-2020
 SCALE: 1" = 20'
 DRAWN: A. ARNOLD
 CHECKED: A. ARNOLD
 FILE PATH:
 Z:\11DC\CS-WATER & SEWER.DWG



C5
 SITE UTILITIES

***NOTE: CONTRACTOR TO VERIFY UTILITY TIE-IN LOCATIONS W/RESPECT TO UTILITY COMPANY AND BUILDING FOOTPRINT LOCATIONS FROM ARCHITECTURAL PLANS PRIOR TO INSTALLING ANY SERVICE LINES.**



CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURES REQUIRED BY UTILITY COMPANY

BENCHMARK DATA:
 BENCHMARK 1
 TELEPHONE MANHOLE LOCATED APPROX. 9' 45" FROM A SET IRON PIN.
 N: 1866416.17
 E: 1428472.26
 KY SPC (SOUTH)
 ELEV: 554.71
 BENCHMARK 2
 SANITARY SEWER MANHOLE LOCATED APPROX. 5.88' FROM A SET IRON PIN.
 N: 1866124.04
 E: 1428765.42
 KY SPC (SOUTH)
 ELEV: 564.52

SEWER NOTES

- PVC PIPE MATERIAL AND JOINTS SHALL CONFORM TO ASTM D-3034, LATEST REVISION.
- FLEXIBLE THERMOPLASTIC SEWER PIPE INSTALLATION SHALL CONFORM TO ASTM D-2241, LATEST REVISION.
- ALL SEWER LINES SHALL BE LAID 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN EXCEPT WHERE THE WATER MAIN CROSSES OVER THE SANITARY SEWER LINE.
- ALL PIPELINE TRENCHING AND STRUCTURE EXCAVATION SHALL BE UNCLASSIFIED.
- SANITARY SEWER PIPE SHALL HAVE A MINIMUM COVER OF THIRTY-SIX INCHES.
- ALL SEWERS SHALL BE SMOKE TESTED AND/OR LOW PRESSURE AIR TESTED. A DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACK FILL HAS BEEN IN PLACE FOR SEVEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 1/8" IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANHOLE. THE BALL SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
- SUBGRADE AND BACK FILL FOR SEWERS LOCATED IN FILL AREAS SHALL BE COMPACTED TO NOT LESS THAN 95% OF DENSITY DETERMINED FROM THE STANDARD PROCTOR TEST.
- SEWERS CROSSING WATER MAINS SHALL BE DESIGNED TO PROVIDE A VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE COVERING OVER THE WATER MAINS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE THE WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

GENERAL NOTES

- THE CONTRACTOR IS ADVISED THAT ALL EXISTING UTILITIES SHOWN ON THESE FIELD SURVEYED BASED ON LOCATIONS PROVIDED BY EXISTING UTILITY COMPANY. OTHER UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR IS ADVISED TO VERIFY ALL UNDERGROUND UTILITIES BY CONTACTING THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO EXCAVATION.
- ALL UTILITIES TO BE CONSTRUCTED WITHIN THE FOOTPRINT OF BUILDING.
- BACK FILL OF TRENCHES BENEATH STRUCTURES AND/OR PAVEMENT SHALL BE CRUSHED STONE OR SIMILAR MATERIAL AS APPROVED BY ENGINEER.
- CONTRACTORS ARE ADVISED TO COORDINATE INSTALLATION OF ALL BURIED CONDUITS AND LINES SUCH THAT LINES WHICH CROSS ARE LAID BEGINNING WITH DEEPEST LINE FIRST.
- DEPTH OF WATERLINE SHALL BE ADJUSTED AS REQUIRED TO ALLOW FOR PROFFERED PLACEMENT OF SANITARY AND STORM SEWERS, BUT IN NO CASE LESS THAN 48 INCHES.
- TAPPING AND INSPECTION FEES TO BE PAID BY CONTRACTOR. METER FEES TO BE PAID BY OWNER.
- CONTRACTOR SHALL COORDINATE WATER AND SEWER SERVICES CONSTRUCTION WITH THE APPROPRIATE LOCAL UTILITY COMPANY. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- ALL TRENCHING, PIPE LAYING AND BACK FILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM ALL GOVERNING AGENCIES HAVING JURISDICTION OF UTILITY SYSTEMS PRIOR TO INSTALLATION.
- ALL GATE VALVES SHALL BE PROVIDED WITH VALVE BOX IN ACCORDANCE WITH WATER UTILITY STANDARDS. MAIN WATER VALVES ONLY TO BE OPERATED BY LOCAL UTILITY COMPANY PERSONNEL.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES AND FIRE HYDRANTS AND SHALL BE CONSTRUCTED ACCORDING TO WATER DEPARTMENT STANDARDS.

UNDERGROUND PRIMARY ELECTRIC REQUIREMENTS

- ALL WATER AND SANITARY SEWER SERVICE LINES TO THE BUILDING(S) SHALL BE PROVIDED WITH A TEMPORARY PLUG (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY). COORDINATE ALL TESTING AND INSPECTION WITH THE LOCAL UTILITY COMPANY.
 - THE CONTRACTOR SHALL FLUSH AND TEST ALL NEW UTILITY LINES ACCORDING TO THE LOCAL UTILITY COMPANY STANDARDS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND ELEVATIONS OF EXISTING AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION. ANY CONFLICTS DISCOVERED AFTER CONSTRUCTION HAS BEGUN SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.
 - THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES IS TEN FEET OUTSIDE DIAMETER TO OUTSIDE DIAMETER. THE MINIMUM VERTICAL SEPARATION IS EIGHTEEN INCHES.
 - BEFORE YOU DIG: CONTRACTOR SHALL NOTIFY KENTUCKY 811 48 HOURS PRIOR TO EXCAVATION, TO LOCATE AND FLAG ALL UNDERGROUND UTILITIES WITHIN THE PROPOSED SITE.
 - CONTRACTOR SHALL VERIFY LOCATIONS THAT UTILITIES ENTER THE BUILDING FROM THE ARCHITECTURAL PLANS PRIOR TO INSTALLING UTILITY SERVICE LINE.
- GENERAL:**
- TRANSFORMER PADS, VAULTS, SECONDARY CONDUCTOR, METER SOCKET, EXCAVATION, CONDUIT AND BACK FILL PROVIDED BY CONTRACTOR/DEVELOPER.
 - PAD MOUNT TRANSFORMERS, JUNCTION ENCLOSURES, PRIMARY CONDUCTORS ONLY, AND INSTALLATION BY LOCAL UTILITY COMPANY.
 - UNDERGROUND CONSTRUCTION BY CONTRACTOR IS SUBJECT TO INSPECTION BY LOCAL UTILITY COMPANY, AND MUST BE APPROVED PRIOR TO THE INSTALLATION OF CONDUCTOR AND TRANSFORMERS. CONDUIT TO BE INSPECTED BEFORE BACKFILLING.
 - REFER TO LOCAL UTILITY COMPANY'S OPERATING POLICIES FOR ADDITIONAL RULES AND REGULATIONS.
 - SUBDIVISION OR AREA IN QUESTION WILL BE AT LEAST ROUGH GRADE BEFORE ANY TRENCHING CAN BEGIN.
 - ANY CHANGES TO THESE OR ANY OTHER LOCAL UTILITY COMPANY SPECIFICATIONS RELATING TO SAME MUST BE DESIGNED OR APPROVED THAT LOCAL UTILITY COMPANY.
- CONDUIT REQUIREMENTS:**
- MINIMUM SIZE OF PRIMARY CONDUIT TO BE 3" SCH 80 PVC AND MINIMUM DEPTH FOR THIS CONDUIT IS 42 INCHES TO TOP OF CONDUIT.
 - MINIMUM SIZE OF SECONDARY CONDUIT TO BE 3 INCH SCH 80 PVC AND MINIMUM DEPTH FOR THIS CONDUIT IS 42 INCHES TO TOP OF CONDUIT. MINIMUM SIZE OF CONDUIT FOR UNDERGROUND SERVICE LATERAL TO BE 3" SCH PVC AND MINIMUM DEPTH 24 INCHES TO TOP OF CONDUIT.
 - ALL BENDS IN CONDUIT SHALL BE RIGID METAL OF SUFFICIENT RADIUS TO PERMIT EASE IN PULLING WIRE (NO PLUMBERS BENDS WILL BE ACCEPTED). ALL 90° BENDS IN PRIMARY CONDUIT WILL HAVE A MINIMUM RADIUS OF 36 INCHES. ALL 90° BENDS IN SECONDARY CONDUIT WILL HAVE A MINIMUM RADIUS OF 18 INCHES.
 - ALL CONDUITS TO CONTAIN 150 LB. TEST (OR GREATER) NYLON STRING.
 - BACKFILL OVER CONDUIT SHALL CONTAIN NO LARGE ROCKS OR DEBRIS.
 - ALL CONDUITS BENEATH ROAD SURFACE WILL BE SCH 80, OR ENCASED IN A 4 INCH CONCRETE ENVELOPE, AND WILL BE BACKFILLED WITH NO. 9 CRUSHED STONE.

CONSTRUCTION LEGEND



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