

PROPOSED LEGEND

==	STORM DRAIN
---	COND
---	GAS
⊕	GAS METER
⊕	ELECTRIC METER
---	OVERHEAD ELECTRIC LINE
---	OVERHEAD ELECTRIC & FIBER OPTIC LINE
---	OVERHEAD ELECTRIC & TELEPHONE LINE
---	OVERHEAD FIBER OPTIC LINE
---	OVERHEAD TELEPHONE & FIBER OPTIC LINE
---	OVERHEAD TELEVISION
---	UNDERGROUND FIBER OPTIC LINE
---	UNDERGROUND ELECTRIC LINE
---	UNDERGROUND ELECTRIC & FIBER OPTIC LINE
---	UNDERGROUND ELECTRIC & TELEPHONE LINE
---	UNDERGROUND TELEPHONE
---	UNDERGROUND TELEVISION
---	UNDERGROUND TELEPHONE & FIBER OPTIC LINE
---	WATER LINE
⊕	FIRE DEPARTMENT CONNECTION
⊕	FIRE HYDRANT
⊕	POST INDICATOR VALVE
⊕	WATER METER
⊕	WATER VALVE
⊕	AIR RELEASE VALVE
⊕	BALL VALVE
⊕	BLOW-OFF VALVE
⊕	REDUCER
⊕	CORPORATION STOP
⊕	SANITARY SEWER LINE
⊕	SANITARY SEWER MANHOLE
⊕	FORCE MAIN LINE
⊕	CLEAN-OUT
⊕	ELECTRIC TRANSFORMER
⊕	POWER POLE/POWER POLE & GUY
⊕	LIGHT POLE
⊕	ELECTRICAL PEDESTAL
⊕	TELEPHONE PEDESTAL
⊕	TRAFFIC SIGNAL PEDESTAL
⊕	CATCH BASIN

UTILITY KEYNOTES

- FIRE SPRINKLER BUILDING ENTRY (SEE ARCH. / MEP PLANS) - SHOULD THE FIRE DESIGN FROM THE FIRE CONSULTANT DEVIATE IN ANY WAY FROM THE CIVIL UTILITY SITE PLAN, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR COORDINATION PRIOR TO THE START OF CONSTRUCTION.
- DOMESTIC WATER SERVICE BUILDING ENTRY (SEE ARCH. / MEP PLANS)
- FIRE DEPARTMENT CONNECTION (PER LOCAL CODES)
- PROPOSED WATER METER (SEE SIZE AT SYMBOL)
- TAPPING SLEEVE AND VALVE w/ THRUST BLOCKING AND ADJUSTABLE VALVE BOX (SEE SIZE AT SYMBOL)
- REDUCER (SEE SIZE AT SYMBOL)
- GATE VALVE WITH ADJUSTABLE VALVE BOX (SEE SIZE AT SYMBOL)
- 90° BEND w/ THRUST BLOCKING (SEE SIZE AT SYMBOL)
- CAP / PLUG w/ THRUST BLOCKING (SEE SIZE AT SYMBOL)
- TEE w/ THRUST BLOCKING (SEE SIZE AT SYMBOL)
- 90° BEND w/ THRUST BLOCKING (SEE SIZE AT SYMBOL)
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER SERVICE BUILDING ENTRY (SEE ARCH. / MEP PLANS)
- GREASE TRAP w/ CLEAN OUTS (SEE ARCH. / MEP PLANS)
- CONNECT TO EXISTING SANITARY SEWER MANHOLE
- SANITARY SEWER SERVICE CONNECTION (PER LOCAL CODES)
- POINT OF CONNECTION - ELECTRIC SERVICE (PER ELECTRIC COMPANY REQUIREMENTS)
- ELECTRIC BUILDING ENTRY (SEE ARCH. / MEP PLANS)
- PROPOSED POWER POLE
- POINT OF CONNECTION - TELEPHONE / INTERNET SERVICE (PER TELEPHONE COMPANY REQUIREMENTS)
- TELEPHONE / INTERNET / FIBER BUILDING ENTRY (SEE ARCH. / MEP PLANS)
- TELEPHONE / INTERNET / FIBER CONDUITS TO BE SCH. 40 PVC (SIZE AND QUANTITY PER TELEPHONE COMPANY) (UNDER PAVED AREAS ONLY)
- POINT OF CONNECTION - NATURAL GAS SERVICE (PER GAS COMPANY REQUIREMENTS)
- NATURAL GAS METER
- NATURAL GAS BUILDING ENTRY (SEE ARCH. / MEP PLANS)
- NATURAL GAS CAP / PLUG (SEE SIZE AT SYMBOL)
- MAINTAIN 18" VERTICAL SEPARATION (MIN.)
- MAINTAIN 10" HORIZONTAL SEPARATION (MIN.)
- POINT OF RELOCATION

UTILITY DETAILS

- 40 SERIES: WATER DETAILS**
400. WATER LINE TRENCHING, BACKFILL, & BEDDING
- 41 SERIES: SANITARY DETAILS**
410. SANITARY SEWER TRENCHING, BACKFILL, & BEDDING
- 42 SERIES: PAVEMENT REPAIR DETAILS**
420. ASPHALT PAVEMENT REPAIR
420. SIDEWALK PAVEMENT REPAIR

GENERAL UTILITY NOTES

- ALL WATER MAINS THAT ARE 2 AND 3 INCH IN DIAMETER SHALL BE PVC (SDR-17), UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL WATER MAINS 4 INCH AND LARGER SHALL BE CLASS 50 DUCTILE IRON, UNLESS OTHERWISE SPECIFIED ON THE PLANS. SIZE AS NOTED ON THE PLANS AND TO MAINTAIN 36" OF COVER (MINIMUM). ALL WATER LINE WORK SHALL CONFORM TO CAW STANDARDS. ALL SEWER MAINS 15 INCHES AND LESS SHALL BE PVC (SDR-26), UNLESS OTHERWISE SPECIFIED ON THE PLANS. SIZE AS NOTED ON THE PLANS AND TO MAINTAIN 48" OF COVER (MINIMUM). ALL FIRE / FDC LINES SHALL BE CLASS 50 DUCTILE IRON, UNLESS OTHERWISE SPECIFIED ON THE PLANS. SIZE AS NOTED ON THE PLANS AND TO MAINTAIN 36" OF COVER (MINIMUM). ALL DOMESTIC WATER SERVICE LINES AFTER THE METER TO BUILDINGS SHALL BE TYPE K COPPER, UNLESS OTHERWISE SPECIFIED ON THE PLANS. SIZE AS NOTED ON THE PLANS AND TO MAINTAIN 36" OF COVER (MINIMUM). ALL DOMESTIC SANITARY SEWER SERVICE LINES SHALL BE PVC (SDR-26), OR OTHERWISE SPECIFIED ON THE PLANS. SIZE AS NOTED ON THE PLANS AND TO MAINTAIN 36" OF COVER (MINIMUM).
- EXISTING UTILITIES SHOWN ON PLANS HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATIONS PER AVAILABLE INFORMATION.
- CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE APPROPRIATE UTILITY AUTHORITIES AND THE OWNER, AND THE CONTRACTOR HAS BEEN NOTIFIED BY MCLELLAND CONSULTING ENGINEERS, INC.
- CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. MCLELLAND CONSULTING ENGINEERS, INC. AND THE OWNER ARE TO BE HELD HARMLESS.
- ALL TRENCHING, BACKFILLING AND PIPE LAYING IS TO MEET ALL OSHA REQUIREMENTS.
- THE LOCATION, DESCRIPTION AND SIZE OF ALL ABOVE-GROUND AND UNDER-GROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DETERMINED WITH DUE CARE AND DILIGENCE USING CURRENT TECHNIQUES, EQUIPMENT AND PROPER ACCURACY CONTROL PROCEDURES. HOWEVER, INFORMATION SHOWN HEREON IS NOT WARRANTED TO BE CORRECT IN EVERY DETAIL BECAUSE OF INACCURACIES IN OR LACK OF EXISTING DATA OR MAPS AND THE INABILITY TO VERIFY IN THE FIELD. PERSONS USING INFORMATION CONTAINED HEREON ARE HEREBY CAUTIONED ACCORDINGLY.
- REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLANS.
- ALL WATER & SEWER DESIGNS ARE SUBJECT TO THE CITY'S LATEST DESIGN CRITERIA (LITTLE ROCK WATER RECLAMATION AUTHORITY SEWER INFRASTRUCTURE SPECIFICATIONS PUBLISHED AUGUST 29, 2023 AND CENTRAL ARKANSAS WATER STANDARD PIPELINE MATERIALS AND CONSTRUCTION SPECIFICATIONS PUBLISHED MAY 2021). REVIEW FOR PLAT APPROVAL IS NOT APPROVAL OF PUBLIC IMPROVEMENTS, AND ALL PROPOSED IMPROVEMENTS ARE SUBJECT TO FURTHER REVIEW AT THE TIME CONSTRUCTION PLANS ARE SUBMITTED.
- ANY DAMAGE TO THE EXISTING PUBLIC STREET DUE TO CONSTRUCTION SHALL BE REPAIRED / REPLACED AT THE OWNER'S / DEVELOPER'S EXPENSE.
- WATER AND SEWER IMPACT FEES WILL APPLY FOR THE ADDITIONAL IMPACT TO THE SYSTEM (IF APPLICABLE). THE FEES WILL BE BASED ON THE PROPOSED METER SIZE AND WILL BE CHARGED AT THE TIME OF METER SET (IF APPLICABLE).
- ALL UTILITY SERVICE LINES TO BE CONNECTED TO NEW MAINS OR RELOCATED AS NEEDED FOR INSTALLATION OF STORM SEWER SYSTEM.
- ALL CONDUITS PLACED BY CONTRACTOR MUST HAVE 24" OF COVER AT FINAL GRADE AND MARKED WITH POSTS TO IDENTIFY THE ENDS OF CONDUITS. THERE MUST BE A MINIMUM SEPARATION OF 12" BETWEEN ELECTRICAL CONDUITS AND CONDUITS FOR OTHER UTILITIES.
- SERVICE TAPS ON UTILITY MAINS (PROPOSED AND / OR EXISTING) SHALL BE MADE BY THE CITY, AND FEES PAID BY CONTRACTOR.
- ALL UNDERGROUND LINES SHALL BE INSPECTED BY THE ENGINEER, OR HIS REPRESENTATIVE, PRIOR TO BACKFILLING.
- PUBLIC SANITARY SEWER MAIN LINE TRENCHING AND BEDDING SHALL BE INSTALLED PER LITTLE ROCK WATER RECLAMATION STANDARD SPECIFICATIONS AND DETAILS. PRIVATE DOMESTIC SANITARY SEWER SERVICE LINE TRENCHING AND BEDDING SHALL BE INSTALLED PER DETAIL 41N.
- PUBLIC WATER MAIN, WATER SERVICE LINE TO METER, BUILDING SPRINKLER, AND / OR FDC LINE TRENCHING AND BEDDING SHALL BE INSTALLED PER CENTRAL ARKANSAS WATER STANDARD SPECIFICATIONS AND DETAILS. PRIVATE DOMESTIC WATER SERVICE LINE AFTER METER TRENCHING AND BEDDING SHALL BE INSTALLED PER DETAIL 40Q.
- ALL WATER LINE DIMENSIONS SHOWN ARE TO CENTER OF PIPE OR FITTING; ALL SEWER LINE DIMENSIONS ARE SHOWN TO CENTER OF MANHOLE OR CENTER OF PIPE.
- TESTING OF WATER AND SEWER LINES SHALL BE AT THE CONTRACTOR'S EXPENSE.
- TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE EITHER FLUSH WITH FINISHED GRADES IN PAVED AREAS, OR 4" ABOVE FINISHED GRADES IN UNPAVED AREAS. TOPS OF PROPOSED MANHOLES SHALL BE FLUSH WITH FINISHED GRADES IN PAVED AREAS, OR 4" ABOVE FINISHED GRADES IN UNPAVED AREAS.
- ALL UTILITIES UNDER PAVED AREAS SHALL RECEIVE CLASS 3 BASE BACKFILL FULL DEPTH.
- MAINTAIN MINIMUM HORIZONTAL SEPARATION OF 10" BETWEEN WATER AND SEWER MAINS AND 5" BETWEEN OTHER UNDERGROUND UTILITIES SUCH AS STORM SEWER, ELECTRICAL, GAS, DOMESTIC WATER / SEWER SERVICE LINES, AND CONDUITS.
- ALL EXISTING WATER, GAS AND / OR ELECTRICAL METERS AS NOTED TO BE ABANDONED AND / OR REMOVED PER THE DEMOLITION PLAN WITHIN THE PROJECT AREA ARE TO BE RETURNED TO THE APPROPRIATE AUTHORITY.
- COORDINATION OF ALL CONDUIT PLACEMENT SHALL BE MADE WITH UTILITY PROVIDERS.
- ALL WATER AND SEWER FORCE MAIN FITTINGS SHALL BE RESTRAINED THROUGH THE USE OF THRUST BLOCKING PER CENTRAL ARKANSAS WATER STANDARD SPECIFICATIONS AND DETAILS OR APPROVED EQUAL.
- CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND STAKING (UNLESS APPROVED OTHERWISE BY THE ENGINEER OF RECORD).
- STAKING & LAYOUT FOR WATER & SEWER MAINS MUST BE PERFORMED BY A LICENSED PROFESSIONAL LAND SURVEYOR (SWU PROJECTS ONLY).
- CONTRACTOR SHALL MAINTAIN 4' (MINIMUM) SEPARATION DISTANCE BETWEEN SIDEWALK AND / OR BACK OF CURB AND FACE OF FIRE HYDRANT / METER BOXES AT ALL TIMES (SWU PROJECTS ONLY).
- CONTRACTOR SHALL INSTALL A TRACER WIRE PORT TO ALL BENDS THAT DO NOT HAVE A VALVE BOX OR EVERY 400' (MAXIMUM), AND AT ANY PIPE TYPE TRANSITION PER SWU STANDARD DETAIL N-1, SWU PROJECTS ONLY.

POLK
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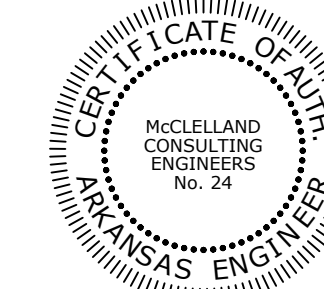
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100%
CONSTRUCTION
DOCUMENTS

English Pub

Little Rock, Arkansas

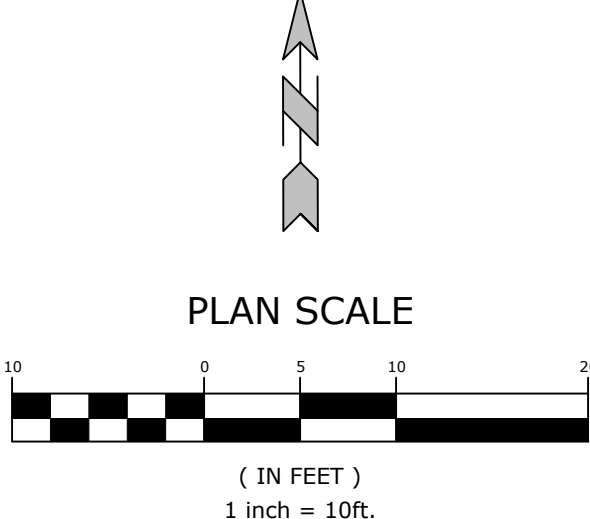
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REVISIONS		
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01	02.25.2025	ADDENDUM 1

Contents:

UTILITY PLAN



C400