

ABBREVIATIONS			
AASHTO	AMERICAN ASSOCIATION OF HIGHWAY & TRANSPORTATION OFFICIALS	M.U.T.C.D. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	
ACHM	ASPHALT CONCRETE HOT MIX	N	NORTHING
AHTD	ARKANSAS HIGHWAY TRANSPORTATION DEPT.	NAD 83	NORTH AMERICAN DATUM OF 1983
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
ASSY.	ASSEMBLY	N.T.S	NOT TO SCALE
A.T.F.P.	ANTI-TERRORISM FORCE PROTECTION	O.C.	ON CENTER
BLDG.	BUILDING	O.C.E.W.	ON CENTER EACH WAY
CMU	CONCRETE MASONRY UNIT	O.A.E.W	ON CENTER EACH WAY
CY	CUBIC YARD	OD	OUTSIDE DIAMETER
COMM	COMMUNICATIONS	OPH	OPPOSITE HAND
DI	DUCTILE IRON	OZ	OUNCE
DIA	DIAGONAL	P.A.C.	PORTLAND CEMENT CONCRETE
DWG	DRAWING	PE	POLYETHYLENE
E	EASTING	PERF.	PERFORATED
EA	EACH	PROP.	PROPOSED
EG	EXISTING GRADE	PSI	POUNDS PER SQUARE INCH
ELEV	ELEVATION	PT.	POINT
EX.	EXISTING	P.V.A.	POLYVINYL CHLORIDE PIPE
FD	FRENCH DRAIN	R.C.B	REINFORCED CONCRETE BOX
FES	FLARED END SECTION	R.C.P	REINFORCED CONCRETE PIPE
FFE	FINISH FLOOR ELEVATION	S.F.	SQUARE FOOT
FL	FLOW LINE	SQ.	SQUARE
FP	FIRING POINT	STA.	STATION
GALV.	GALVANIZED	SS	SANITARY SEWER
HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE	STD	STANDARD
I.D.	INSIDE DIAMETER	S.Y.	SQUARE YARD
J.W.W.	JACKSONVILLE WATER WORKS	SW	SIDEWALK
L.F.	LINEAR FEET	T.B.C.	TOP BACK OF CURB
L.S.	LUMP SUM	TP	TOP OF PAVEMENT
LVC	LOW VOLUME CHANGE MATERIAL	TYP	TYPICAL
MAX.	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN.	MINIMUM	VLV	VALVE
M.J.	MECHANICAL JOINT	WWR	WELDED WIRE REINFORCEMENT
MH	MANHOLE		



1. CAUTION: UNDERGROUND UTILITIES LIE WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS, HOWEVER ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL MARK THE VISIBLE UTILITIES & THE UTILITIES SHOWN ON THE PLANS IN THE FIELD. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKING UNTIL THEY ARE NO LONGER NECESSARY. USE EXTREME CAUTION WHEN EXCAVATING.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE APPROPRIATE BARRICADES AND SAFETY PRECAUTIONS IN ALL EXCAVATED AREAS. EXCAVATED AREAS SHALL BE ADEQUATELY FILLED OR COVERED BY THE CONTRACTOR BEFORE LEAVING THE JOBSITE EACH DAY.
3. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING STRUCTURES, PAVEMENTS, AND UTILITIES.
4. CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO THE SITE DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN THE SITE IN AN ORDERLY AND CLEAN FASHION.
6. ALL WASTE MATERIALS GENERATED FROM CONSTRUCTION BECOME THE PROPERTY OF THE CONTRACTOR (UNLESS OTHERWISE NOTED ON THE PLANS). THE CONTRACTOR SHALL REMOVE THE WASTE MATERIALS FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER.
7. CONTRACTOR SHALL COORDINATE WITH THE LRAFB AND UTILITY COMPANIES FOR WORK ON ALL UTILITIES PRIOR TO DEMOLITION/RENOVATION. THESE UTILITIES SHALL INCLUDE (BUT ARE NOT LIMITED TO) WATER, NATURAL GAS, ELECTRIC, SANITARY SEWER, AND COMMUNICATIONS LINES. PROVIDE NOTICE TO THE OWNER PRIOR TO ANY DISRUPTION IN SERVICE.
8. CONTRACTOR SHALL SAWCUT ALL PAVEMENTS OR SIDEWALKS TO BE REMOVED IN A NEAT AND ORDERLY MANNER PRIOR TO DEMOLITION. SAWCUT TO THE NEAREST JOINT WHENEVER POSSIBLE.

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9. ITEMS LABELED AS "PROPOSED" OR "INSTALL" SHALL BE CONSTRUCTED AS INDICATED IN THE CONSTRUCTION DOCUMENTS AS PART OF THIS PROJECT UNLESS NOTED AS GF/GI.
10. ENSURE ALL ADA FACILITIES / WALKS / PARKING ADHERE TO CURRENT ADA STANDARDS.
11. UTILIZE CLASS F FLY ASH FOR ALL EXTERIOR, EXPOSED CONCRETE FOR THE SIDEWALKS AND RAMPS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH ANY SUB-CONTRACTORS, TO ENSURE THE ENTIRE PROJECT IS BUILT ACCORDING TO THE GUIDANCE PROVIDED IN THE CONTRACT DOCUMENT.

1. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATE EROSION CONTROL MEASURES. THESE MEASURES WILL SATISFY THE REQUIREMENTS OF LITTLE ROCK AIR FORCE BASE AND US ARMY CORPS OF ENGINEERS LITTLE ROCK DISTRICT. EROSION CONTROL DEVICES WILL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
2. SOD, FERTILIZE AND MULCH AREAS DISTURBED BY CONSTRUCTION (EXCEPT AREAS TO BE PAVED). COMPLY WITH THE STANDARDS SET FORTH IN THE THE STANDARD SPECIFICATIONS. SEE LANDSCAPE PLANS/SPECS FOR GROUND COVER REQUIREMENTS.
3. CONTRACTOR SHALL EMPLOY A QUALIFIED MATERIALS TESTING LABORATORY, ACCEPTABLE TO THE ENGINEER, TO PROVIDE TESTING SERVICES DURING CONSTRUCTION. TEST RESULTS SHALL BE PROMPTLY SENT TO THE OWNER/ENGINEER.
4. CONTRACTOR SHALL MAINTAIN BENCHMARKS ON SITE UNTIL THE END OF CONSTRUCTION.
5. IT IS INCUMBENT UPON THE CONTRACTOR TO FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. A TOPOGRAPHIC SURVEY INCLUDING UTILITY ROUTES AND TIE-INS, PAVEMENTS, STRUCTURES, AND GRADES SHALL BE CONDUCTED BY THE CONTRACTOR. SHOULD SIGNIFICANT DISCREPANCIES BE FOUND, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER AND ENGINEER OF RECORD.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL GRADING RELATED PERMITS PRIOR TO BEGINNING EARTHWORK.
7. SITE FILL SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

1. ALL WATERLINES (12-INCHES OR LESS) SHALL BE FABRICATED FROM PVC C-900, DR18.
2. ALL PVC WATER LINE PIPE SHALL BE BLUE.
3. ALL MECHANICAL JOINT BENDS USED ON WATER MAINS 4-INCHES AND LARGER, SHALL BE RESTRAINED USING CONCRETE THRUST BLOCKS OR ANCHOR COLLAR AS DIRECTED BY JWW SPECIFICATIONS.
4. PROVIDE METALLIC TAPE ABOVE ALL WATER DISTRIBUTION LINE ROUTES. INCLUDE A #14 INSULATED COPPER LOCATOR WIRE ABOVE THE PIPE. WIRE SHALL BE BROUGHT TO GRADE AT VALVE BOXES AND HYDRANTS.
5. PROVIDE CHLORINATION AND INDEPENDENT TESTING OF WATER SAMPLES FOR NEWLY INSTALLED WATER MAINS AND SERVICE PIPING, IN ACCORDANCE WITH THE SPECIFICATIONS AND THE ARKANSAS DEPARTMENT OF HEALTH. SAMPLING AND TESTING SHALL BE PERFORMED BY A CERTIFIED LABORATORY QUALIFIED TO PERFORM WATER TESTING. SEE JWW SPECIFICATIONS SECTION GP-7 INSPECTION AND ACCEPTANCE.
6. PROVIDE A MINIMUM COVER OF 3 FEET FROM FINISHED GRADE TO THE TOP OF THE PIPE UNLESS OTHERWISE SPECIFIED. SEE ALSO JWW SPECIFICATIONS.
7. CONTRACTOR SHALL NOTIFY DPW AND JWW PRIOR TO BACKFILLING UTILITY TRENCHES. NO UTILITY SHALL BE COVERED UNTIL DPW HAS GPS SURVEYED THAT UTILITY AND JWW HAS INSPECTED THE WORK.

1. ALL GRAVITY PIPING 4-INCHES TO 15-INCHES IN DIAMETER SHALL BE PVC, ASTM D3034, SDR 26 OR BETTER AND THE COLOR SHALL BE GREEN.
2. THE DEPTH OF COVER FOR FORCE MAINS, GRAVITY MAINS, AND LATERALS SHALL NOT BE LESS THAN 30-INCHES.
3. WASTEWATER GRAVITY OR FORCE MAINS SHALL MAINTAIN HORIZONTAL (10' MINIMUM) AND VERTICAL SEPARATION (1.5' MINIMUM) FROM WATER MAINS. SEWER BELOW AT CROSSINGS.
4. INSTALLATION OF PVC PIPE SHALL BE IN ACCORDANCE WITH ASTM 2321. WHERE PVC ENTERS A MANHOLE, A SUITABLE MANHOLE COUPLER OR FLEXIBLE MANHOLE CONNECTOR SHALL BE INSTALLED IN THE MANHOLE WALL TO PROVIDE A WATER TIGHT CONNECTION.
5. ALL SERVICE LATERALS SHALL BE AT LEAST 4-INCH DIAMETER, AND SHALL HAVE A SURFACE (FLUSH WITH THE GROUND) CLEANOUT MADE OF PVC BELL AND SPIGOT. THE CLEANOUT SHALL BE ENCASED WITH AN 18-INCH SQUARE OR ROUND BY 6-INCH THICK COLLAR.
6. ALL SERVICE LATERALS CONNECTING TO THE COLLECTION LINES SHALL HAVE GASKET "WYED" FITTINGS MADE OF PVC, WHICH WILL BE HELD IN PLACE WITH STAINLESS STEEL BANDS.
7. PROVIDE METALLIC TAPE ABOVE ALL SEWER LINE AND FORCE MAIN ROUTES. INCLUDE A LOCATOR WIRE IN THE TRENCH. WIRE SHALL BE BROUGHT TO GRADE AT CLEANOUTS AND MANHOLES.

1. 12 AWG BLUE COATED SOLID COPPER TRACER WIRE TO BE INSTALLED ON ALL WATER MAINS.
2. MARKER BALL TO BE INSTALLED EVERY 60' AND AT EVERY CHANGE IN DIRECTION.
3. CONTRACTOR TO FIELD VERIFY SIZE AND MATERIAL OF EXISTING WATER LINES.
4. TAPPING SLEEVE AND VALVE MAY BE USED ON FIRE MAIN.
5. JWW INSPECTION FEES ARE \$75.00 PER HOUR AND REQUIRE 24 HOURS PRIOR NOTICE.
6. MARKER POST REQUIRED EVERY 150'. AT EVERY FIRE HYDRANT LOCATION OR AT DIRECTION OF JWW (SEE DETAILS TD 16 THRU TD 18C AND JWW SPECIFICATIONS G7.13).

AIR MOBILITY COMMAND