GENERAL UTILITY NOTES

1. COORDINATE ALL BUILDING CONNECTIONS WITH BUILDING CONTRACTOR AND THE INFORMATION PROVIDED ON MECHANICAL AND ELECTRICAL SHEETS.

2. PROVIDE A MINIMUM NOTICE OF THIRTY (30) DAYS FOR ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CONTRACTING OFFICER. PROVIDE TEMPORARY EQUIPMENT TO CONTINUE OPERATIONS DURING UTILITY SHUTDOWNS IF REQUIRED BY CONTRACTING OFFICER.

3. FOLLOW THE MINIMUM DEPTH OF COVER FOR UTILITIES UNLESS INDICATED OTHERWISE:

   a. COMMUNICATION: 24 INCHES
   b. ELECTRICAL: 24 INCHES
   c. ALL OTHER UTILITIES: 36 INCHES

4. PAINT ALL EQUIPMENT TO MATCH EXISTING CONDITIONS AT THE BASE UNLESS INDICATED OTHERWISE.

5. OBTAIN WRITTEN APPROVAL FROM THE CONTRACTING OFFICER FOR ANY CHANGES TO PROPOSED UTILITY DESIGN.

6. COORDINATE AND PAY ALL UTILITY CONNECTION FEES AND OBTAIN ALL PERMITS REQUIRED FOR THE UTILITY CONSTRUCTION AND CONNECTIONS. THIS INCLUDES ALL FEES ASSOCIATED WITH CONNECTION CHARGES AND METERS.

7. ALL UNDERGROUND UTILITIES ARE SUBJECT TO ACCEPTANCE TESTING AND INSPECTION METHODS DETAILED IN THE SPECIFICATIONS FOR EACH UTILITY TYPE, WHICH MAY INCLUDE VIDEO CAMERA INSPECTION. COORDINATE CAMERA AND EQUIPMENT WITH THE SITE SECURITY MANAGER AND CONTRACTING OFFICER PRIOR TO BRINGING ANY PHOTOGRAPHY OR VIDEO EQUIPMENT ON SITE.

8. PERFORM ALL WATER & SEWER CONSTRUCTION WORK ON THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY CODES AND STANDARDS. THESE CODES AND STANDARDS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: AMERICAN WATER WORKS ASSOCIATION (AWWA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNIFIED FACILITIES CRITERIA (UFC), ENVIRONMENTAL PROTECTION AGENCY (EPA) AND USACE EM 385-1-1 SAFETY AND HEALTH REQUIREMENT MANUAL. APPLY THE MOST STRINGENT REQUIREMENT IN ALL CASES ESPECIALLY FOR ISSUES RELATED TO SAFETY.

WATER UTILITY NOTES

1. THRUST BLOCKS OR JOINT RESTRAINTS ARE REQUIRED AT ALL TEES, BENDS, OR ELBOWS OF PRESSURIZED PIPING. SEE SHEET CU502 FOR TYPICAL THRUST BLOCK DETAILS. MECHANICAL JOINT RESTRAINTS ARE ALLOWED IN AREAS WHERE PROXIMITY OF ADJACENT UTILITIES OR STRUCTURES WILL MAKE PLACEMENT OF THRUST BLOCKS DIFFICULT. OBTAIN APPROVAL FROM THE CONTRACTING OFFICER FOR THE USE OF JOINT RESTRAINTS.

2. INSTALL WATER LINES A MINIMUM OF 3 FEET BEHIND THE EDGE OF PAVEMENT OR FACE OF CURB UNLESS INDICATED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL CLEARANCE REQUIREMENTS FOR WATER PIPING.

3. INSTALL FIRE HYDRANTS A MINIMUM OF 3 FEET AND A MAXIMUM OF 6 FEET FROM EDGE OF PAVEMENT OR FACE OF CURB AND A MINIMUM OF 1 FEET FROM EDGE OF SIDEWALK UNLESS INDICATED OTHERWISE. KEEP CLEAR A RADIUS OF 3 FEET AROUND THE HYDRANT FOR FIRE DEPARTMENT ACCESS. KEEP AREA BETWEEN CURB AND HYDRANTS CLEAR OF OBSTRUCTIONS. PAINT FIRE HYDRANT BODY YELLOW WITH LIGHT GREEN BONNET TO MATCH EBBING ANGB STANDARDS.

UTILITY STRUCTURE NOTES

1. CONSTRUCT ALL UTILITY STRUCTURES ON THE PROJECT TO SUPPORT STANDARD TRUCK LOADS (AASHTO H20/HS20), UNLESS INDICATED OTHERWISE.

2. SUBMIT STRUCTURAL DRAWINGS, DESIGN CALCULATIONS, AND WATERPROOFING METHOD, DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS FOR APPROVAL.

3. MANHOLE RIM ELEVATION MUST BE FLUSH WITH FINAL GRADE, EXCEPT WHERE INDICATED ON DRAWINGS.

4. COORDINATE THE COVERS AND CASTINGS OF MANHOLES AND STRUCTURES WITH THE LOCAL STANDARDS FOR THE APPROPRIATE UTILITY TYPE. STAMP COVERS AND CASTINGS PER THE ORIGIN OF MANUFACTURE.

5. PROVIDE TAMPER-PROOF COVERS AND CASTINGS FOR ELECTRICAL OR COMMUNICATIONS MANHOLES/HANDHOLES STRUCTURES LOCATED IN PEDESTRIAN AREAS, EASEMENT AREAS, AND AREAS WITH SPECIAL SECURITY RESTRICTIONS. COORDINATE WITH THE CONTRACTING OFFICER AND 188TH SFS PRIOR TO INSTALLATION TO ENSURE 188TH SFS KNOWS HOW TO OPERATE THE TAMPER-PROOF STRUCTURE.

GENERAL NOTES

1. ALL DIMENSIONS, ELEVATIONS, AND STATIONS ARE IN FEET UNLESS INDICATED OTHERWISE.

2. ALL PIPE SIZES ARE IN INCHES UNLESS INDICATED OTHERWISE.

3. CALLOUTS, COORDINATES, ELEVATIONS, AND DIMENSIONS ARE POINTED TO OR MEASURED TO STRUCTURE CENTER, EDGE OF PAVEMENT, OUTSIDE FACE OF FOUNDATION WALL OR COLUMN CENTERLINE, UNLESS INDICATED OTHERWISE.

EXISTING CONDITIONS NOTES

1. THE LOCATIONS OF STRUCTURES AND UNDERGROUND UTILITIES AS INDICATED HAVE BEEN OBTAINED FROM EXISTING RECORDS AND FIELD SURVEYS. UNDERGROUND STRUCTURES AND UTILITIES MAY BE PRESENT WHICH ARE NOT DOCUMENTED OR LOCATED.

2. FIELD-CHECK ALL EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE SITE BEFORE ANY WORK COMMENCES. IMMEDIATELY REPORT ANY DISCREPANCIES IN THE DRAWINGS TO THE CONTRACTING OFFICER BEFORE ANY WORK COMMENCES.

3. FIELD-VERIFY EXISTING STRUCTURES, UTILITIES, AND SURVEY INFORMATION, AND TAKE NECESSARY PRECAUTIONS DURING DEMOLITION AND CONSTRUCTION. VERIFY EXISTENCE AND MARK LOCATIONS OF ALL UTILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CONTACT THE CONTRACTING OFFICER AND ALL ASSOCIATED UTILITY COMPANIES AND AGENCIES TO IDENTIFY THE LOCATION OF UTILITIES. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION.

4. PRIOR TO CONSTRUCTION, NOTIFY THE CONTRACTING OFFICER OF OPERATIONAL PLANS. IN THE EVENT AN UNEXPECTED UTILITY OR STRUCTURE INTERFERENCE OR CONFLICT IS ENCOUNTERED DURING CONSTRUCTION, IMMEDIATELY NOTIFY THE CONTRACTING OFFICER. RESTORE ANY UTILITY SERVICES OR STRUCTURES DISTURBED BY CONTRACTOR'S OPERATIONS IMMEDIATELY AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CONTRACTING OFFICER.

5. PROTECT ITEMS NOT TO BE DAMAGED DURING DEMOLITION AND CONSTRUCTION. REPAIR OR REPLACE DAMAGED OR DISTURBED ITEMS TO THE SATISFACTION OF THE CONTRACTING OFFICER.

DEMOLITION NOTES

1. DISPOSE ALL DEMOLITION, WASTE, DEBRIS, AND UNSATISFACTORY MATERIALS OFF BASE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

2. LOCATIONS NOTED FOR DEBRIS REMOVAL MAY CONTAIN ANY OF THE FOLLOWING MATERIALS: AGGREGATE, CONCRETE, ASPHALT, MASONRY, FOUNDATIONS, REBAR, FENCE MATERIAL, PIPING, AND MISCELLANEOUS STRUCTURES. LARGE PIECES OF MATERIAL MAY NEED TO BE CRUSHED AND/OR BROKEN UP FURTHER IN ORDER TO BE HAULED AWAY TO THE WASTE DISPOSAL SITE.

3. ALL BUILDING DEMOLITION INCLUDES COMPLETE REMOVAL OF ALL STRUCTURES, FOUNDATIONS, AND UTILITIES ASSOCIATED WITH THE EXISTING BUILDING FOOTPRINT. REMOVE UTILITIES NOTED FOR DEMOLITION IN THEIR ENTIRETY AND NOT ABANDONED UNLESS INDICATED OTHERWISE.

4. COORDINATE LIMITS OF SAWCUT AND PAVEMENT REMOVAL WITH PAVEMENT LAYOUT AND JOINTING PLAN. SITE CONCRETE PAVEMENTS MAY CONTAIN REINFORCEMENT. SAWCUT FULL DEPTH AND DOUBLE CUT PAVEMENT DESIGNATED FOR SAWCUT. SAWCUT EXISTING PAVEMENT EDGES IN LOCATIONS SHOWN TO PROVIDE CLEAN EDGE FOR CONSTRUCTION OF PAVEMENT.

5. ADJUST PAVEMENT REMOVAL LIMITS TO THE NEAREST EXISTING PAVEMENT JOINT TO THE GREATEST EXTENT POSSIBLE TO PREVENT PARTIAL PANEL REMOVAL.

6. PAVEMENT REMOVAL INCLUDES REMOVAL OF PAVEMENT AND ANY SUBBASE MATERIAL PRESENT DOWN TO SUBGRADE. SEE EXISTING PAVEMENT SECTIONS ON CD501.

7. COORDINATE WITH THE CONTRACTING OFFICER PRIOR TO REMOVAL OF EXISTING UTILITIES IN SERVICE. CONSTRUCT RELOCATED UTILITIES BEFORE REMOVAL OF EXISTING UTILITIES TO ENSURE UNINTERRUPTED SERVICE TO THE FACILITIES SERVED BY THE UTILITY. COORDINATE ALL RELOCATIONS WITH THE CONTRACTING OFFICER.

8. UTILITY CAPPING METHODS MUST BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC PIPE MATERIAL IN SERVICE. INSPECT ALL CAPPING AND OBTAIN APPROVAL BY THE CONTRACTING OFFICER PRIOR TO PLACING BACKFILL.

9. REMOVE STRUCTURES AND UTILITIES TO BE REMOVED IN ACCORDANCE WITH SPECIFICATION 02 41 00 DEMOLITION AND BACKFILL IN ACCORDANCE WITH SPECIFICATION 31 00 00 EARTHWORK.

DEMOLITION NOTES CONT.

10. REPORT THE WEIGHT (IN TONS) OF ALL MATERIALS TAKEN OFF THE BASE FOR RECYCLING TO THE CONTRACTING OFFICER MONTHLY FOR DOCUMENTATION.

11. DISPOSE OF ALL INORGANIC MATERIALS IDENTIFIED FOR DEMOLITION AND REMOVE OFF BASE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING BUT NOT LIMITED TO: ANY APPLICABLE MATERIALS MUST BE CONSIDERED FOR RECYCLE.

12. DUE TO THIS PROJECT'S PROXIMITY TO THE FLIGHTLINE, CONTINUALLY MONITOR ALL CONSTRUCTION DEBRIS TO ENSURE DEBRIS DOES NOT ENTER AN ACTIVE AIRFIELD AREA. TARP DUMPSTERS AT ALL TIMES.

SITE NOTES

1. BUILDING COORDINATES ARE INDICATED TO OR MEASURED AT THE CENTER OF BUILDING COLUMNS. COORDINATE BEARINGS OF BUILDING GRID LINES WITH STRUCTURAL DRAWINGS.

2. COORDINATE BUILDING ENTRANCES, EGRESSES, WALKWAYS, AND DOORWAY LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL SHEETS. STOOPS AND SIDEWALKS TO BE CENTERED ON DOORS.

3. SEE MECHANICAL AND ELECTRICAL SHEETS FOR MISCELLANEOUS SITE EQUIPMENT DETAILS. SEE STRUCTURAL SHEETS FOR EQUIPMENT PAD DETAILS.

GRADING NOTES

1. PROPOSED ELEVATIONS INDICATED ARE FOR TOP OF FINAL GRADE, PAVEMENT, OR STRUCTURE UNLESS INDICATED OTHERWISE.

2. ELEVATION DENOTED AS "MATCH" ARE INTENDED TO MEET EXISTING GRADE ELEVATIONS. VERIFY ELEVATIONS AT TIE-INS AND MATCH POINTS PRIOR TO BEGINNING CONSTRUCTION.

3. EXTERIOR FINISH GRADES AT BUILDING ENTRANCES AND DOORWAY THRESHOLDS MUST BE MAXIMUM 0.25-INCHES BELOW BUILDING FINISH FLOOR IF A VERTICAL THRESHOLD IS PROVIDED, AND A MAXIMUM 0.5-INCHES BELOW BUILDING FINISH FLOOR IF A BEVELED THRESHOLD IS PROVIDED, UNLESS INDICATED OTHERWISE, COORDINATE WITH STRUCTURAL DRAWINGS.

4. EXTERIOR FINISH GRADES ADJACENT TO THE BUILDING MUST BE 6-INCHES BELOW FINISH FLOOR UNLESS INDICATED OTHERWISE.

5. MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. RESTORE ANY DRAINAGE FEATURE OR STRUCTURE DISTURBED DURING CONSTRUCTION TO EXISTING CONDITIONS OR BETTER SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER.

6. GRADE SURFACES AROUND FACILITY TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND PAVEMENTS.

7. REMOVE STANDING WATER FROM THE PROJECT WORK LIMITS AS NECESSARY TO PROTECT SUBGRADE, SUBBASE, AND/OR BASE COURSE OF NEW PAVEMENT, SURROUNDING PAVEMENT-TO-REMAIN, OR OTHER COMPLETED WORKS.

8. ADJUST TOP ELEVATION OF ALL UTILITY STRUCTURES TO REMAIN FLUSH WITH FINISH GRADE ELEVATION.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22394
RYAN J. DONNELLY
7/23/2025

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
0	READY-TO-ADVERTISE (RTA) SUBMITTAL	JUL 2025

DESIGNED BY: R. DONNELLY
DRAWN BY: D. HINEMAN
CHECKED BY: R. BARUTH
SUBMITTED BY: STREEPER
SIZE: ANSI D
ISSUE DATE: JUL 2025
SOLICITATION NO.: W9127S25RA001
CONTRACT NO.: W9127S24F0007
FILE NAME: 165438C-002.dwg

US ARMY CORPS OF ENGINEERS
LITTLE ROCK DISTRICT
LITTLE ROCK, ARKANSAS

BURNS AND McDONNELL
9400 WARD PARKWAY
KANSAS CITY MO, 64114
165438

F-35: SPECIAL ACCESS PROGRAM FACILITY
EBBING AIR NATIONAL GUARD BASE (ANGB), FORT SMITH, ARKANSAS

CIVIL GENERAL NOTES

SHEET ID
C-002

READY-TO-ADVERTISE (RTA) SUBMITTAL