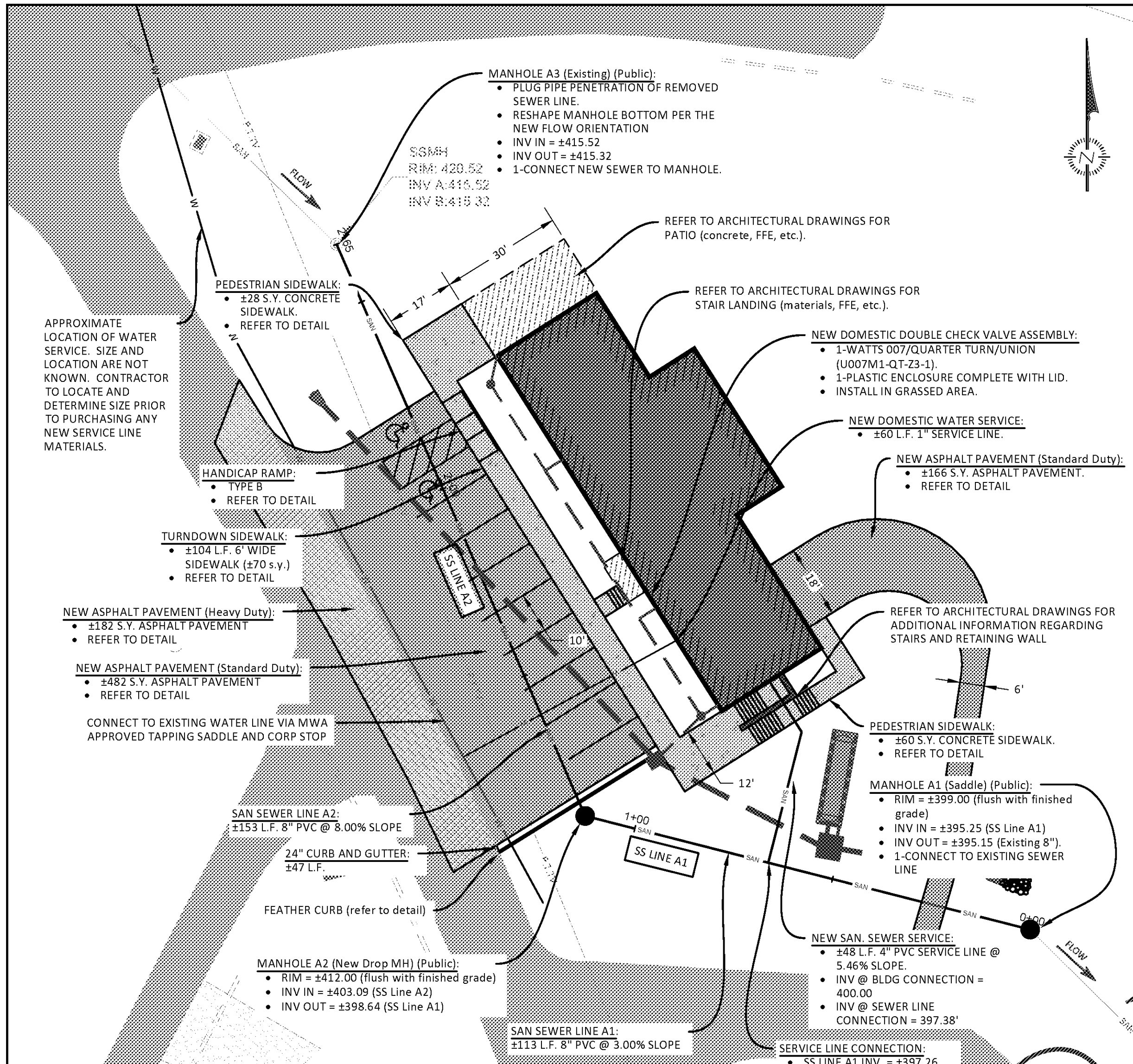


SITE LAYOUT

SCALE: 1" = 20'

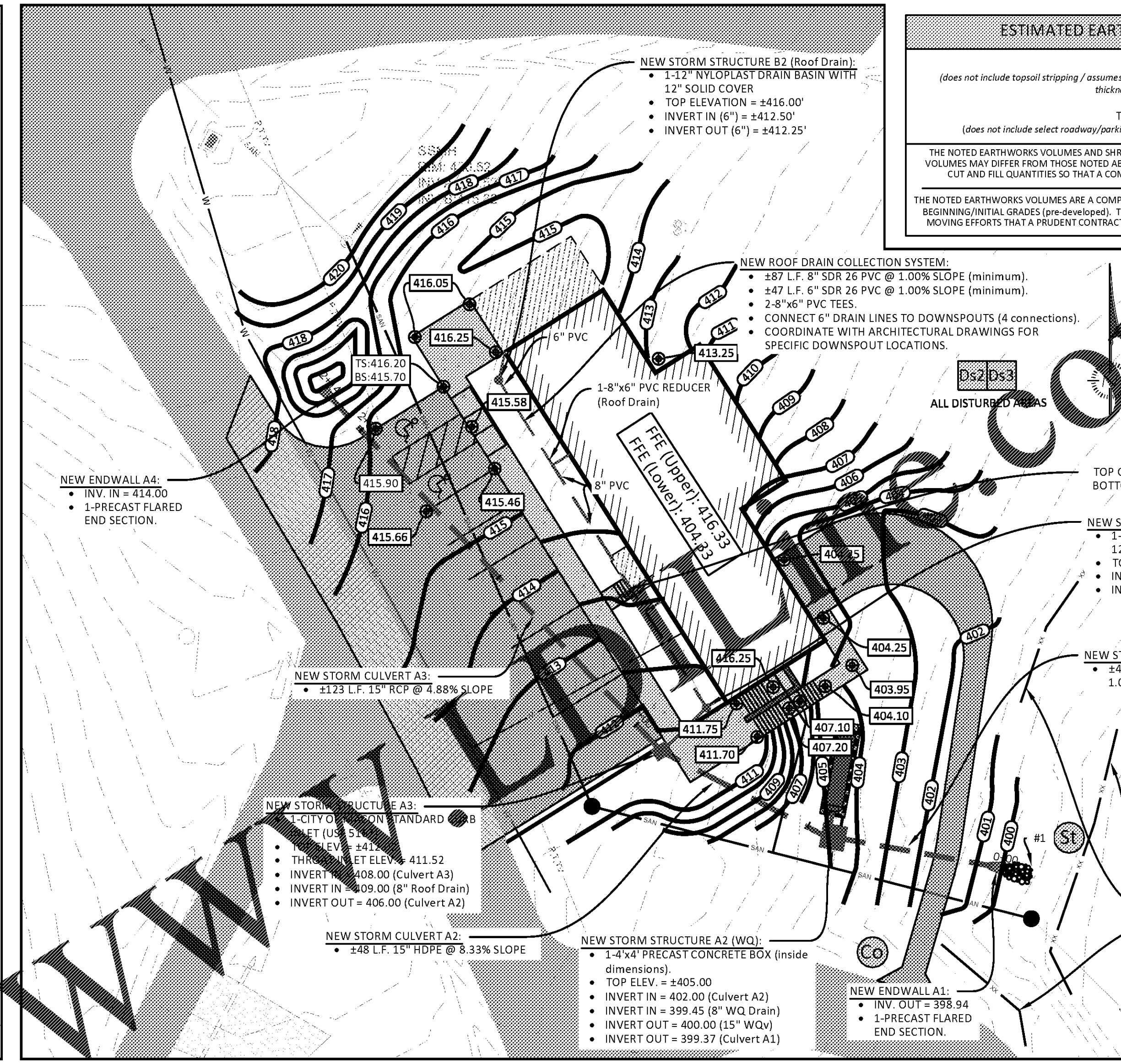
0 20 40 60

GRAPHIC SCALE IN FEET

ESTIMATED EARTHWORK QUANTITIES	
TOTAL CUT = *(does not include topsoil stripping / assumes general aggregate base and pavement thicknesses for roadway/parking installations)*	±1,280 C.Y.
TOTAL FILL (*1.25 adjustment factor*) = *(does not include select roadway/parking subgrade backfill or aggregate base)*	±425 C.Y.

THE NOTED EARTHWORKS VOLUMES AND SHRINKAGE/ADJUSTMENT FACTOR ARE ESTIMATES. ACTUAL VOLUMES MAY DIFFER FROM THOSE NOTED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUT AND FILL QUANTITIES SO THAT A COMPLETE AND ACCEPTABLE PROJECT IS CONSTRUCTED

THE NOTED EARTHWORKS VOLUMES ARE A COMPARISON BETWEEN FINISHED GRADES (post-developed) AND BEGINNING/INITIAL GRADES (pre-developed). THE NOTED VOLUMES DO NOT INCLUDE ORDINARY EARTH MOVING EFFORTS THAT A PRUDENT CONTRACTOR MAY INCUR DURING THE PROJECT'S DEVELOPMENT.

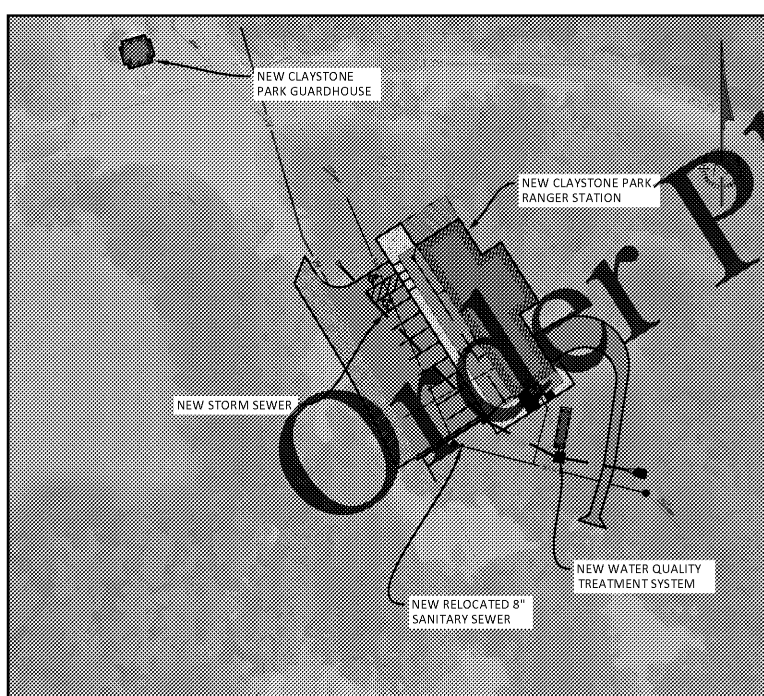


GRADING and DRAINAGE

SCALE: 1" = 20'

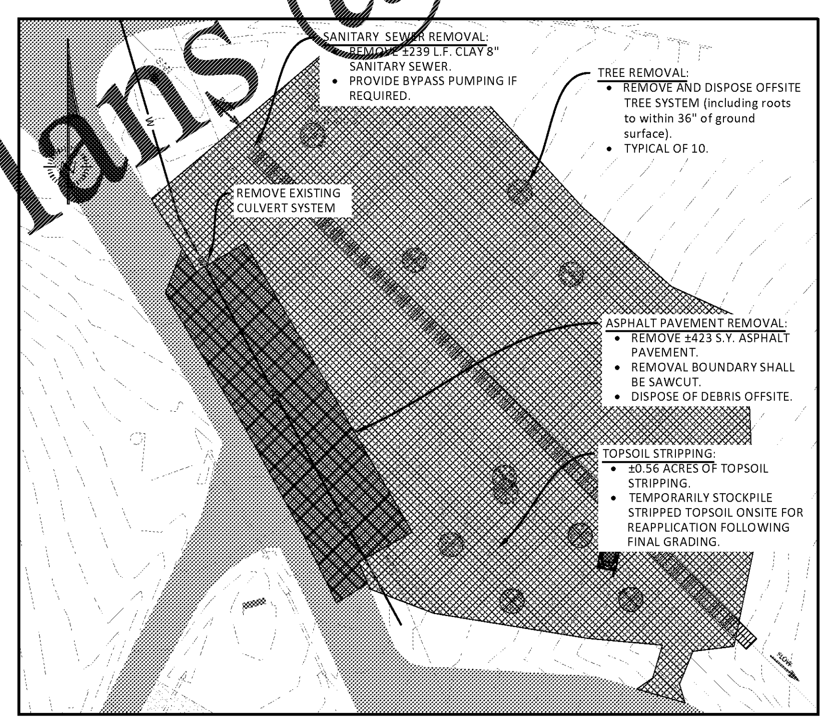
ISSUED FOR REVIEW

January 14, 2020



OVERALL LAYOUT

SCALE: 1" = 50'



DEMOLITION

SCALE: 1" = 30'

WATER AND SANITARY SEWER UTILITY NOTES:

1. GENERAL (Contractor Responsibilities):
   - REPAIR EXISTING SIDEWALKS AND CURB/GUTTER AS NECESSARY FOR SERVICE (water and sewer) INSTALLATIONS.
   - A HORIZONTAL SEPARATION OF 10' SHALL BE MAINTAINED BETWEEN WATER LINES AND SANITARY SEWERS WHERE POSSIBLE. THE DISTANCE SHALL BE MEASURED FROM EACH PIPE'S INSIDE EDGE TO EDGE. WHEN A WATER LINE MUST CROSS AND/OR PARALLEL A SEWER, THE WATER LINE AND/OR SEWER SHALL BE LAID SUCH THAT THE TOP OF THE SEWER IS A MINIMUM OF 18" BELOW THE BOTTOM OF THE WATER LINE.
   - FOR BOTH THE WATER AND SEWER SYSTEMS, REFER TO PLUMBING DRAWINGS FOR SPECIFIC CONNECTION LOCATIONS AND ELEVATIONS INTO EACH STRUCTURE.
2. WATER SYSTEM (Domestic and Fire):
   - WATER SERVICE PIPING LESS THAN 4-INCH IN SIZE SHALL BE SCHEDULE 40 PVC (Pressure Pipe) UNLESS OTHERWISE NOTED.
   - ALL SCHEDULE 40 PVC PIPING AND FITTINGS SHALL BE SOLVENT WELDED.
   - MINIMUM COVER OVERTOP WATER SERVICE MAINS SHALL BE 36".
   - WATER SERVICE INSTALLATIONS SHALL BE IN ACCORDANCE WITH MACON WATER AUTHORITY SPECIFICATIONS.
   - CONTRACTOR SHALL SUPPLY ALL REQUIRED FITTINGS (adaptive fittings for dissimilar materials, bends, tees, connection with public meter assembly/well system, connection with building plumbing, etc.).
   - THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING TO THE EXISTING WATER SERVICE, AND ALL ASSOCIATED PAVEMENT REMOVAL ASSOCIATED WITH THE SERVICE LINE RECONNECTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL NEW SERVICE LINE BETWEEN THE CONNECTION POINT AND THE NEW STRUCTURE.
3. SANITARY SEWER SYSTEM:
   - SANITARY SEWER SERVICE PIPING SHALL BE PVC SDR 26 UNLESS OTHERWISE NOTED.
   - ALL SANITARY SEWER PIPING SHALL UTILIZE PVC CLEANOUTS AT ALL BENDS AND AT INTERVALS OF 75' ALONG STRAIGHT RUNS OF PIPE. CLEANOUTS SHALL BE BROUGHT FLUSH WITH THE FINISHED GRADE. IN GRASSED AREAS, THE CLEANOUT TOP SHALL BE FLUSH WITH THE TOP OF DIRT/BOTTOM OF GRASS, AND IT SHALL BE ENCASED IN A 12"x12"x4" CAST-IN-PLACE CONCRETE COLLAR.
   - SANITARY SERVICE INSTALLATIONS SHALL BE IN ACCORDANCE WITH MACON WATER AUTHORITY SPECIFICATIONS.
   - CONTRACTOR SHALL COORDINATE ALL INSTALLATION AND REVIEW APPROVAL ACTIVITIES WITH THE MWA INSPECTOR.
   - CONTRACTOR SHALL SUPPLY ALL REQUIRED FITTINGS (adaptive fittings for dissimilar materials, cleanout wyes, connection with public collection system/septic system, connection with building plumbing, etc.).
   - THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING TO THE EXISTING SANITARY SERVICE, AND ALL ASSOCIATED PAVEMENT REMOVAL ASSOCIATED WITH THE SERVICE LINE RECONNECTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL NEW SERVICE LINE BETWEEN THE CONNECTION POINT AND THE NEW STRUCTURE.

DEMOLITION CONSTRUCTION NOTES:

1. FIRE HYDRANTS, SIDEWALKS, PAVEMENT AND CURBING OUTSIDE THE LIMITS OF CONSTRUCTION SHALL REMAIN. SIDEWALKS, PAVEMENT AND /OR CURBS DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PROCESS SHALL BE REMOVED AND REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. ALL PAVEMENT TO BE SAWCUT AT THE DEMOLITION LIMITS.
3. GRASS/TREE/VEGETATION REMOVAL:
   A. GRASS, BRUSH, TREES, STUMPS AND ASSOCIATED ROOT SYSTEMS LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED. ALL TREES LOCATED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS THEIR ROOT SYSTEMS ARE SIGNIFICANTLY DISTURBED DURING THE CONSTRUCTION.
   B. DISPOSE OF DEBRIS IN ACCORDANCE WITH LOCAL DEVELOPMENT SPECIFICATIONS.
4. UTILITIES DESIGNATED FOR DEMOLITION:
   A. COORDINATE DEMOLITION OF UTILITIES (above and underground) WITH THE RESPECTIVE UTILITY PROVIDER. NOTIFY UTILITY PROVIDER A MINIMUM OF 48 HOURS PRIOR TO ABANDONING SERVICES. ABANDONMENT OF SERVICES SHALL BE IN ACCORDANCE WITH THE UTILITY PROVIDER'S REQUIREMENTS.
   B. SANITARY SERVICES AND SEWERS:
      - EXCEPT FOR SELECT SANITARY SEWERS SCHEDULED TO REMAIN IN SERVICE, REMOVE SEWER LINE TO MANHOLE.
      - IF MANHOLE REMAINS, PLUG HOLE AND RECONSTRUCT MANHOLE FLOOR IN ACCORDANCE WITH MWA REQUIREMENTS.
      - IF MANHOLE DOES NOT REMAIN, REMOVE MANHOLE COMPLETELY AND BACKFILL IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
      - IF A NEW SANITARY SEWER TAP IS REQUIRED, A MWA APPROVED PVC TEE TAP SHALL BE UTILIZED.
      - ALL PRIVATE SEWER LATERALS THAT WILL BE ABANDONED SHALL BE REMOVED WITHIN 6" OF THE SANITARY SEWER MAIN. THE REMAINING LATERAL STUB SECTION SHALL BE CAPPED WITH AN EQUAL SIZED SCH. 40 PVC CAP (solvent weld connection). ONE 40# BAG OF QUICKRETE CONCRETE MIX SHALL BE PLACED DIRECTLY BEHIND EACH CAP. SEWER LATERALS SCHEDULED TO BE REUSED AT A LATER DATE SHALL BE HAVE A 6" STUBOUT THAT EXTENDS 24" ABOVE THE FINISHED GRADE.
      - EACH TERMINATION CAPPING SHALL BE WITNESSED BY A MWA INSPECTOR. NOTIFY INSPECTOR A MINIMUM OF 48 HOURS PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
   C. ALL OPENED TRENCHES FROM THE DEMOLITION SHALL BE BACKFILLED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS OR THE UTILITY PROVIDER'S REQUIREMENTS.
   D. UTILITIES SCHEDULED TO REMAIN IN SERVICE SHALL BE MARKED AND PROTECTED FROM DAMAGE DURING THE DEMOLITION PROCESS.

SITE GRADING AND DRAINAGE CONSTRUCTION NOTES:

1. CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL REPORT/ENGINEER REGARDING SOIL FOUNDATION MATERIALS UNDERNEATH STRUCTURES AND ROADWAYS. UNDERCUTTING AND/OR SELECT BACKFILL MAY BE REQUIRED AT SELECT LOCATIONS ACROSS THE SITE.
2. MAXIMUM CROSS SLOPE WITHIN PEDESTRIAN CROSSWALKS SHALL NOT EXCEED 2%.
3. MINIMUM SLOPE AWAY FROM ALL STRUCTURES SHALL BE 5% FOR THE FIRST 6 FEET AS MEASURED FROM THE STRUCTURE'S BASE.
4. REAPPLY STRIPPED TOPSOIL TO DISTURBED AREAS SCHEDULED TO RECEIVE A GRASS/VEGETATIVE COVER FOLLOWING FINAL GRADING ACTIVITIES.
5. GENERAL FILL MATERIALS: ONSITE MATERIALS (stripped topsoil, excavated dirt, etc.) THAT ARE USED AS FILL SHALL NOT CONTAIN ANY ROCKS OR LUMPS IN EXCESS OF 1.5 INCHES IN DIMENSION. ONLY NATURAL STONE, CRUSHED CONCRETE AND EARTH MATERIALS SHALL BE USED AS FILL MATERIALS. NO TRASH/DEBRIS (i.e. metal, plastic, wood, glass, etc.) SHALL BE ALLOWED AS FILL. OWNER RESERVES THE RIGHT TO REJECT MATERIALS USED FOR FILL. ALL FILL DELIVERED FROM OFFSITE AREAS SHALL BE PREAPPROVED BY THE GEOTECHNICAL ENGINEER.

SITE LAYOUT CONSTRUCTION NOTES:

1. INSTALL CONCRETE CONSTRUCTION JOINTS AT ALL PROJECT RELATED PREVIOUSLY POURED OR EXISTING CONCRETE CONNECTIONS.
2. REFER TO DETAILS REGARDING NEW CONCRETE JOINT SPACING AND METHODS.
3. ALL DIMENSIONS ARE TO THE FACE OF SIDEWALK, FACE OF BUILDING OR FACE OF CURB, UNLESS OTHERWISE NOTED.
4. *THE NOTED ASPHALT PAVEMENT THICKNESS (including GAB) FOR THIS PROJECT IS BASED ON TYPICAL CONDITIONS. A SPECIFIC PAVEMENT THICKNESS RECOMMENDATION FROM A LICENSED GEOTECHNICAL ENGINEERING FIRM IS SUGGESTED. REEVES DESIGN SERVICES DOES NOT ASSUME RESPONSIBILITY FOR ANY NEW PAVEMENT FAILURES.*

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A NEW RANGER STATION AT CLAYSTONE PARK FOR MACON-BIBB COUNTY

MOSLEY DIXON ROAD MACON, GEORGIA

Revisions:	

Sheet Title: RANGER STATION

Project #: 1819

Date: 01/13/20

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