LEGEND

	EXISTING	PROPOSED
IRON PIN FOUND	IPF	
IRON PIN SET	IPS	
CONCRETE MONUMENT FOUND	CMF	
BENCHMARK		
PROPERTY LINE / RIGHT OF WAY		
CREEK / SWALE		
CONTOUR	100	100
BOLLARD	B	
WATER LINE	W	W
FIRE HYDRANT		
WATER VALVE		
IRRIGATION CONTROL VALVE	ICV	
WATER METER		
WELL	W	
GAS LINE	G	
GAS VALVE		
GAS METER	G	
MANHOLE	S	S
SANITARY SEWER LINE	SAN	
CLEAN OUT	CO	CO
STORM SEWER PIPE		
HEADWALL		
DROP/YARD INLET/JUNCTION BOX		
END SECTION		
CATCH BASIN (GA. DOT)		
LIGHT POLE		
POWER/UTILITY POLE/GUY WIRE		
OVERHEAD POWER, TELEPHONE, & CABLE	OHP,T,TV	
UNDERGROUND POWER	UGP	
UNDERGROUND TELEPHONE	UGT	
TRANSFORMER	TP	
TELEPHONE BOX	T	
CABLE BOX	C	
TREE		
ASPHALT PAVEMENT		
CONCRETE PAVEMENT		
UNPAVED/GRAVEL ROAD		
WETLANDS		
LANDLOT		
100-YEAR FLOOD LIMITS	100YR	
EASEMENT		
RAILROAD TRACK		
GUARD RAIL		
FENCE		
BORE HOLE		

CONTRACTOR/DEVELOPER NOTES:

1. FOR OTHER SITE, MISCELLANEOUS AND/OR SPECIAL NOTES SPECIFIC TO VARIOUS CONSTRUCTION PHASES, REFER TO EACH INDIVIDUAL SHEET FOR SAID NOTES AND/OR CONDITIONS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO THE STORMWATER CONVEYANCE SYSTEM.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTACTOR TO INSURE THAT PRIOR TO ORDERING PROJECT MATERIALS THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS HAVE BEEN OBTAINED FROM THE PROJECT ENGINEER INCLUDING, BUT NOT LIMITED TO, THE APPROVED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE. THE PROJECT ENGINEER ACCEPTS NO RESPONSIBILITY FOR IMPROPER ORDERING OF MATERIALS.
4. THE DEVELOPER AND/OR DEVELOPERS CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT.
5. DISTURBANCE TO ANY SURVEY MARKER MAY REQUIRE RE-ESTABLISHMENT OF THE MARKER OR MONUMENT BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
6. **THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF PRE CONSTRUCTION CONDITIONS ENCOUNTERED ON THE PROJECT SITE DIFFER FROM THOSE DEPICTED ON THE PLANS. IF ANY CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY AND SHALL NOT COMMENCE OR CONTINUE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.**

DEMOLITION:

1. CONTRACTOR SHALL REVIEW SITE DEVELOPMENT PLANS, AND SHALL REMOVE ALL EXISTING SITE FEATURES REQUIRED FOR CONSTRUCTING THE PROPOSED IMPROVEMENTS.
2. ALL PAVEMENT TO BE REMOVED (CONCRETE & ASPHALT) SHALL BE SAW CUT AT THE EDGE OF THE REMOVAL.
3. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY OWNERS TO ENSURE UNINTERRUPTED UTILITY SERVICE TO USERS. SERVICE LINES TO BE REMOVED SHALL BE REMOVED TO THE MAIN LINE.
4. CLEAN-UP AND DISPOSAL

   TRANSPORT TRASH, RUBBISH AND DEBRIS FROM SITE DAILY AND DISPOSE OF THEM IN A LEGAL FASHION. REMOVE AND PROMPTLY DISPOSE OF CONTAMINATED, VERMIN INFESTED, OR DANGEROUS MATERIALS ENCOUNTERED. DO NOT BURN OR BURY MATERIALS ON SITE. REMOVE TOOLS, EQUIPMENT, AND PROTECTIONS WHEN WORK IS COMPLETE AND WHEN AUTHORIZED TO DO SO BY THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

GRADING AND EARTHWORK NOTES:

1. SURVEY CONTROL
   THE VERTICAL AND HORIZONTAL DATUM FOR THIS PROJECT CAN BE OBTAINED FROM THE SURVEYOR LISTED ON THE TITLE SHEET.
2. UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS DEPICTED ON THE DRAWINGS, INCLUDING ADJACENT TRANSITION AREAS. SMOOTH FINISHED SOIL SURFACE WITHIN 0.1' OF THE PROPOSED CONTOURS AS DEPICTED ON THE DRAWINGS, COMPACT WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES.
3. SUB-GRADE AND FOUNDATION PREPARATION
   REMOVE ALL TOPSOIL, VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. TOPSOIL SHALL BE CONSIDERED TO MEAN ORIGINAL SURFACE SOIL, TYPICAL OF AREA, WHICH IS CAPABLE OF SUPPORTING NATIVE PLANT GROWTH, AND SHALL BE FREE OF LARGE STONES, ROOTS, BRUSH, WASTE CONSTRUCTION DEBRIS AND OTHER UNDESIRABLE MATERIAL OR CONTAMINATION. PLOW, STRIP, OR BREAK-UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE.
4. WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER "COMPACTION" FOR PARTICULAR AREA CLASSIFICATIONS, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE-CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY. REMOVE AND REPLACE ANY EXISTING GROUND MATERIAL THAT DOES NOT MEET THE CRITERIA FOR SATISFACTORY SOIL MATERIAL OR WILL NOT COMPACT TO THE SPECIFICATIONS LISTED BELOW.
5. SATISFACTORY SOIL MATERIALS
   SATISFACTORY SOIL MATERIALS FOR FILL MATERIAL SHALL BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D2487 AS SM, SC, ML AND CL. SATISFACTORY SOIL MATERIALS DESCRIBED ABOVE MUST BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, OR ANY OTHER DELETERIOUS MATTER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING INCLUDING TESTING OF BORROW MATERIALS TO DETERMINE SUITABILITY FOR USE AS FILL MATERIAL. UNSUITABLE MATERIALS FOR FILLING AND BACKFILLING ARE THOSE CLASSIFIED AS MH, CH, OL, OH AND PT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM. EXCAVATED SOILS THAT ARE TOO WET TO COMPACT SHALL NOT BE CLASSIFIED UNSUITABLE DUE TO HIGH MOISTURE CONTENT ALONE.
6. SOIL PLACEMENT, COMPACTION, AND TESTING REQUIREMENTS
   CONTROL SOIL COMPACTION DURING CONSTRUCTION PROVIDING NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY (ASTM D-698) FOR SOILS WHICH EXHIBIT A WELL-DEFINED MOISTURE DENSITY RELATIONSHIP DETERMINED IN ACCORDANCE WITH ASTM STANDARDS. ADDITIONAL COMPACTION SPECIFICATIONS MAY BE ASSOCIATED WITH THE CONSTRUCTION DETAILS OR BY AN ASSOCIATED GEOTECHNICAL SUB-SURFACE INVESTIGATION REPORT.

   AT COMPLETION OF CLEARING, GRUBBING AND STRIPPING OF TOPSOIL, STUMP HOLES OR OTHER DEPRESSIONS SHALL BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHALL THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHALL BE PLACED IN EIGHT-INCH-THICK LOOSE LIFTS AND COMPACTED TO 98% DENSITY IN ACCORDANCE WITH ASTM D698.

   EACH BUILDING PAD AND ALL PAVING SUBGRADE AREAS SHALL BE COMPACTED AND PRE-DENSIFIED AS RECOMMEND BY THE GEOTECHNICAL ENGINEER. ALL AREAS THAT ARE UNSTABLE UNDER THE COMPACTION EQUIPMENT SHALL BE UNDERCUT TO FIRM SOIL AND REPLACED WITH CLEAN FILL COMPACTED AS SPECIFIED IN EIGHT-INCH LOOSE LIFTS. PRE-DENSIFICATION SHALL BE OBSERVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER. PRE-DENSIFICATION SHALL BE ACCOMPLISHED WITH A FULLY LOADED DUMP TRUCK (20-TON MIN.) OR OTHER RUBBER-TIRED EQUIPMENT. OVERLAPPING PASSES OF THE VEHICLE SHALL BE MADE ACROSS THE SITE IN ONE DIRECTION, AND THEN AT RIGHT ANGLES TO THE ORIGINAL DIRECTION.
7. PLACE BACKFILL AND MATERIALS IN LAYERS NOT MORE THAN 6" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.
8. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM (AND NO MORE THAN 3% ABOVE OPTIMUM) MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
9. PLACE BACKFILL AND FILL MATERIALS EVENLY ADJACENT TO STRUCTURES TO REQUIRED ELEVATIONS. TAKE CARE TO PREVENT WEDGING ACTION OF BACKFILL AGAINST STRUCTURES BY CARRYING MATERIAL UNIFORMLY AROUND STRUCTURE TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACTION OF SOILS ADJACENT TO STRUCTURES MUST MEET THE SPECIFICATIONS LISTED ABOVE.
10. PERFORM FIELD DENSITY TESTS IN ACCORDANCE WITH ASTM D 2937 (DRIVE CYLINDER METHOD), ASTM D 1556 (SAND CONE METHOD), AS APPLICABLE, OR NUCLEAR METHOD ASTM D 2922. MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 12" LAYER OF FILL PLACEMENT FOR EVERY 2,500 SQ. FT. OF STRUCTURAL FILL AREA OR 5,000 SQ. FT. FOR GENERAL FILL EARTHWORK AREAS.
11. IF IN THE OPINION OF THE ENGINEER, BASED ON TESTING SERVICE REPORTS AND INSPECTIONS, SUBGRADE OR FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, REMOVE THE UNSUITABLE FILL AND REPLACE IT WITH FILL MATERIAL COMPACTED TO THE SPECIFICATIONS ABOVE.
12. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DISCOVERY OF ANY GROUNDWATER, SUB-SURFACE SEEPAGE, OR SPRINGS DISCOVERED DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH A REGISTERED GEOTECHNICAL ENGINEER TO INSPECT THE SITE, AND TO MAKE ANY RECOMMENDATIONS REGARDING EVIDENCE AND REMEDIATION (IF ANY) OF SAID SUB-SURFACE WATERS.
13. THE CONTRACTOR SHALL INCLUDE IN THE BID COSTS ANY ITEMS RELATED TO TEMPORARY AND/OR PERMANENT MEASURES TO REMOVE ANY SUBSURFACE SEEPAGE, SPRINGS, OR ANY OTHER GROUND WATER, WHETHER OR NOT DEPICTED IN THE BID SET.
14. ALL CUT AND FILL SLOPES (WHERE NO WALL IS PROPOSED) SHALL BE EQUAL TO OR FLATTER THAN 3:1 (HORIZONTAL:VERTICAL).
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STATE, CITY, AND LOCAL PERMITS; INCLUDING, BUT NOT LIMITED TO BUILDING, EROSION CONTROL, AND ENCROACHMENT PERMITS. NO WORK IS TO BE INITIATED UNTIL PERMITS ARE RECEIVED.
16. ALL UTILITY TRENCHES ARE TO BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FURTHER CONCRETE/ASPHALTIC PAVEMENT AND STRUCTURES.

ELECTRONIC CAD FILE NOTICE

THE DWG FILE IS ONLY SUITABLE FOR USE BY THE DESIGN PROFESSIONAL FOR PRODUCING PRINTS OF THE DESIGN INTENT. ANY OTHER USE OF THE DWG FILE IS AT THE RISK OF THE USER.

UTILITY LOCATION:

1. THE CONTRACTOR SHALL LOCATE UTILITIES BY CALLING (TOLL FREE) 811 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN ON THIS PLAN. ABOVE GROUND UTILITY LOCATIONS WERE OBTAINED FROM FIELD OBSERVATIONS AND AVAILABLE RECORDS. UNDERGROUND UTILITY LOCATIONS AND EASEMENT LOCATIONS AND/OR REFERENCES WERE FURNISHED TO US BY AGENCIES OR INDIVIDUALS AND WE DO NOT CERTIFY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. UTILITY LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO PROCEEDING WITH CONSTRUCTION. THE OWNER SHALL COORDINATE WITH EASEMENT AND UTILITY OWNERS PRIOR TO COMMENCING CONSTRUCTION.
2. ALL EXISTING UTILITIES, UTILITIES EASEMENTS, AND UTILITY RIGHT-OF-WAY MAY NOT BE DEPICTED ON THESE DRAWINGS. UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS PLAN (IF ANY) ARE APPROXIMATE ONLY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ANY SUCH UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY TO VERIFY ALL UTILITY LOCATION. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY EXISTING UTILITIES WILL AFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
3. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY OWNER PRIOR TO THE START OF ANY CONSTRUCTION.
4. UTILITY OWNERS SHALL BE NOTIFIED IN ADVANCE OF THE WORK.

EROSION AND CONTROL:

1. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL INSPECTOR. GRADING SHALL NOT BE INITIATED UNTIL SILT BARRIER INSTALLATION AND SEDIMENT CONTROL FACILITIES ARE CONSTRUCTED.
2. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
3. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR SEDIMENT AND EROSION CONTROL IN GEORGIA, LATEST EDITION AND IN CONFORMANCE WITH LOCAL ORDINANCES.
4. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH SITE ENTRY/EXIT. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THEY MAY REQUIRE PERIODIC REPAIR AND/OR TOP DRESSING WITH STONE. ALL CONSTRUCTIONS EXITS SHALL BE UNDERPINNED WITH A MINIMUM 2 OZ/SY NON-WOVEN CONTINUOUS FILAMENT NEEDLE PUNCHED FILTER FABRIC.
5. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS AS INDICATED ON THE APPROVED PLANS.
6. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND SEDIMENT STORAGE DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
7. STORM DRAIN SYSTEMS SHALL BE PROTECTED AND MAINTAINED SUCH THAT THEY REMAIN CLEAN AND FREE OF SILT AND DEBRIS.
8. SEEDING SPECIFICATIONS AND APPLICATION RATES ARE SHOWN IN THIS PLAN. ANY SUBSTITUTIONS WILL REQUIRE APPROVAL OF THE LOCAL GOVERNMENTAL AGENCY AND THE OWNER.
9. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY NEED TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFICULTY IN CONTROLLING EROSION DURING CONSTRUCTION TO THE ENGINEER.

MACON WATER AUTHORITY (MWA)

AMERSON WATER TREATMENT PLANT GENERATOR FUEL SYSTEM REPLACEMENT

703 RIVERBEND RD, MACON, GA 31211

Macon Water Authority

DESIGNER

CLARKNEXSEN
A JMT Company
3920 ARKWRIGHT ROAD SUITE 385
MACON, GEORGIA 31201
478-743-8415

TRIPLE POINT ENGINEERING
93 Gateway Drive • Macon, Georgia 31210
phone 478.476.0700 • www.tpointeng.com

PROFESSIONAL SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER CLINTON SANDERS TERRY

SUBMITTAL

6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

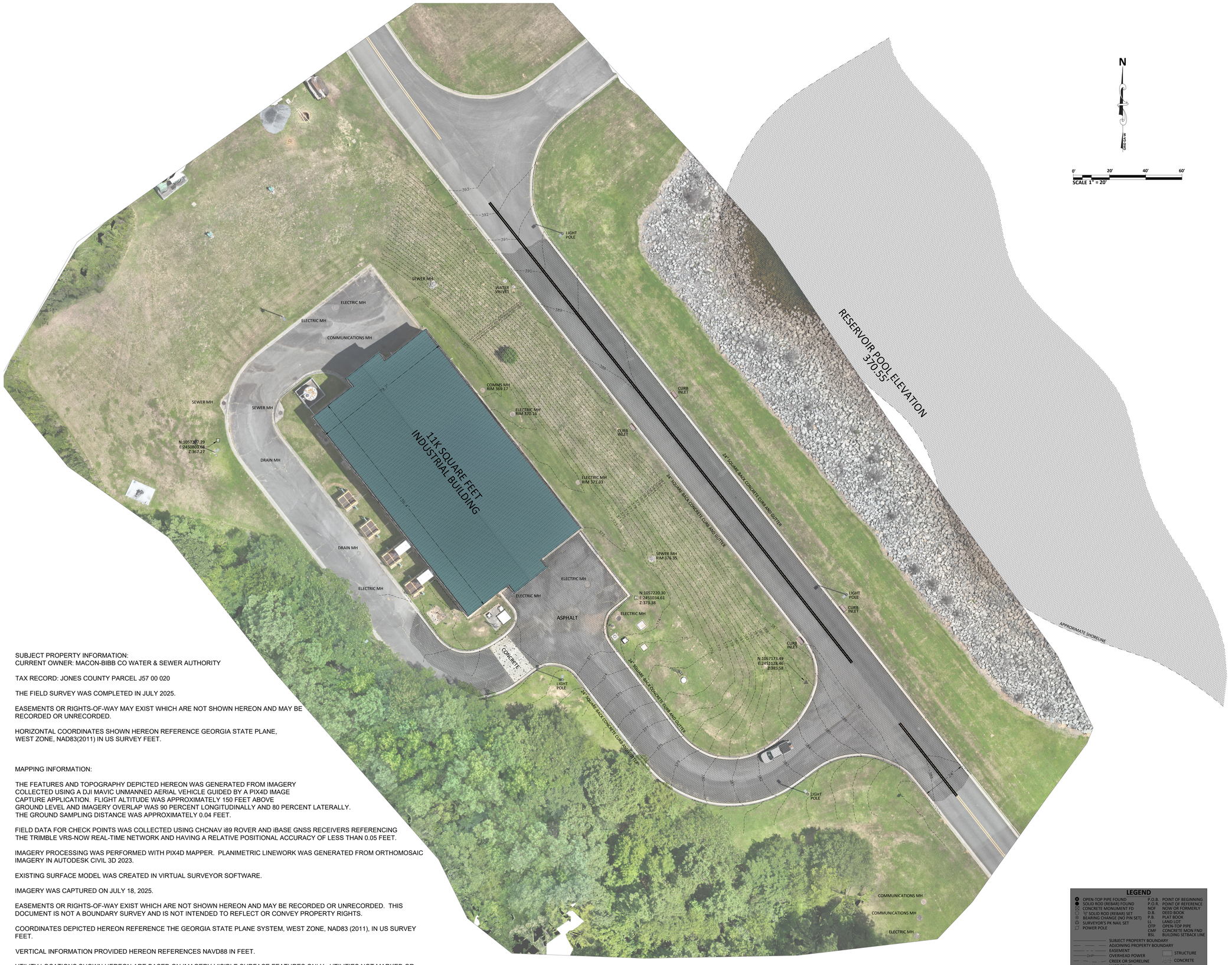
KEY PLAN

SHEET

C0.1 - LEGEND AND GENERAL NOTES

DESIGN: CST
DRAWN: JCR
REVIEW: RRW

CN 10709 - 100



N

0' 20' 40' 60'

SCALE 1" = 20'

SUBJECT PROPERTY INFORMATION:
CURRENT OWNER: MACON-BIBB CO WATER & SEWER AUTHORITY

TAX RECORD: JONES COUNTY PARCEL J57 00 020

THE FIELD SURVEY WAS COMPLETED IN JULY 2025.

EASEMENTS OR RIGHTS-OF-WAY MAY EXIST WHICH ARE NOT SHOWN HEREON AND MAY BE RECORDED OR UNRECORDED.

HORIZONTAL COORDINATES SHOWN HEREON REFERENCE GEORGIA STATE PLANE, WEST ZONE, NAD83(2011) IN US SURVEY FEET.

MAPPING INFORMATION:

THE FEATURES AND TOPOGRAPHY DEPICTED HEREON WAS GENERATED FROM IMAGERY COLLECTED USING A DJI MAVIC UNMANNED AERIAL VEHICLE GUIDED BY A PIX4D IMAGE CAPTURE APPLICATION. FLIGHT ALTITUDE WAS APPROXIMATELY 150 FEET ABOVE GROUND LEVEL AND IMAGERY OVERLAP WAS 90 PERCENT LONGITUDINALLY AND 80 PERCENT LATERALLY. THE GROUND SAMPLING DISTANCE WAS APPROXIMATELY 0.04 FEET.

FIELD DATA FOR CHECK POINTS WAS COLLECTED USING CHCNAV i89 ROVER AND iBASE GNSS RECEIVERS REFERENCING THE TRIMBLE VRS-NOW REAL-TIME NETWORK AND HAVING A RELATIVE POSITIONAL ACCURACY OF LESS THAN 0.05 FEET.

IMAGERY PROCESSING WAS PERFORMED WITH PIX4D MAPPER. PLANIMETRIC LINEWORK WAS GENERATED FROM ORTHOMOSAIC IMAGERY IN AUTODESK CIVIL 3D 2023.

EXISTING SURFACE MODEL WAS CREATED IN VIRTUAL SURVEYOR SOFTWARE.

IMAGERY WAS CAPTURED ON JULY 18, 2025.

EASEMENTS OR RIGHTS-OF-WAY EXIST WHICH ARE NOT SHOWN HEREON AND MAY BE RECORDED OR UNRECORDED. THIS DOCUMENT IS NOT A BOUNDARY SURVEY AND IS NOT INTENDED TO REFLECT OR CONVEY PROPERTY RIGHTS.

COORDINATES DEPICTED HEREON REFERENCE THE GEORGIA STATE PLANE SYSTEM, WEST ZONE, NAD83 (2011), IN US SURVEY FEET.

VERTICAL INFORMATION PROVIDED HEREON REFERENCES NAVD88 IN FEET.

UTILITY LOCATIONS SHOWN HEREON ARE BASED ON IMAGERY-VISIBLE SURFACE FEATURES ONLY. UTILITIES NOT MARKED OR UTILITIES WITH MARKINGS NOT VISIBLE IN IMAGERY MIGHT NOT BE SHOWN HEREON.

LEGEND

OPEN-TOP PIPE FOUND		P.O.B.	POINT OF BEGINNING
SOLID ROD (REBAR) FOUND		P.O.R.	POINT OF REFERENCE
CONCRETE MONUMENT FD		N/F	NOW OR FORMERLY
½" SOLID ROD (REBAR) SET		D.B.	DEED BOOK
BEARING CHANGE (NO PIN SET)		P.B.	PLAT BOOK
SURVEYOR'S PK NAIL SET		LL	LAND LOT
POWER POLE		OTP	OPEN-TOP PIPE
		CMF	CONCRETE MON FND
		BSL	BUILDING SETBACK LINE
SUBJECT PROPERTY BOUNDARY			
ADJOINING PROPERTY BOUNDARY			
EASEMENT			
OVERHEAD POWER			STRUCTURE
CREEK OR SHORELINE			CONCRETE
WIRE FENCE			SURFACE WATER
APPROX. TREELINE			ASPHALT
EDGE OF GRAVEL/DIRT			

MACON WATER AUTHORITY (MWA)

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478-743-8415

SURVEY PERFORMED BY
JORDAN ENGINEERING
144 N. WARREN ST. MONTICELLO, GA. 31064
TELEPHONE: (706) 468-8999
Land Planning • Surveying • Soils Classification

FOR
TRIPLE POINT ENGINEERING
93 Gateway Drive • Macon, Georgia 31210
phone 478.476.0700 • www.tpointeng.com

PROFESSIONAL SEAL

GEORGIA REGISTERED No. 2902 LAND SURVEYOR ROBERT Q. JORDAN

SUBMITTAL

12/01/2025

90% SUBMITTAL

REVISIONS

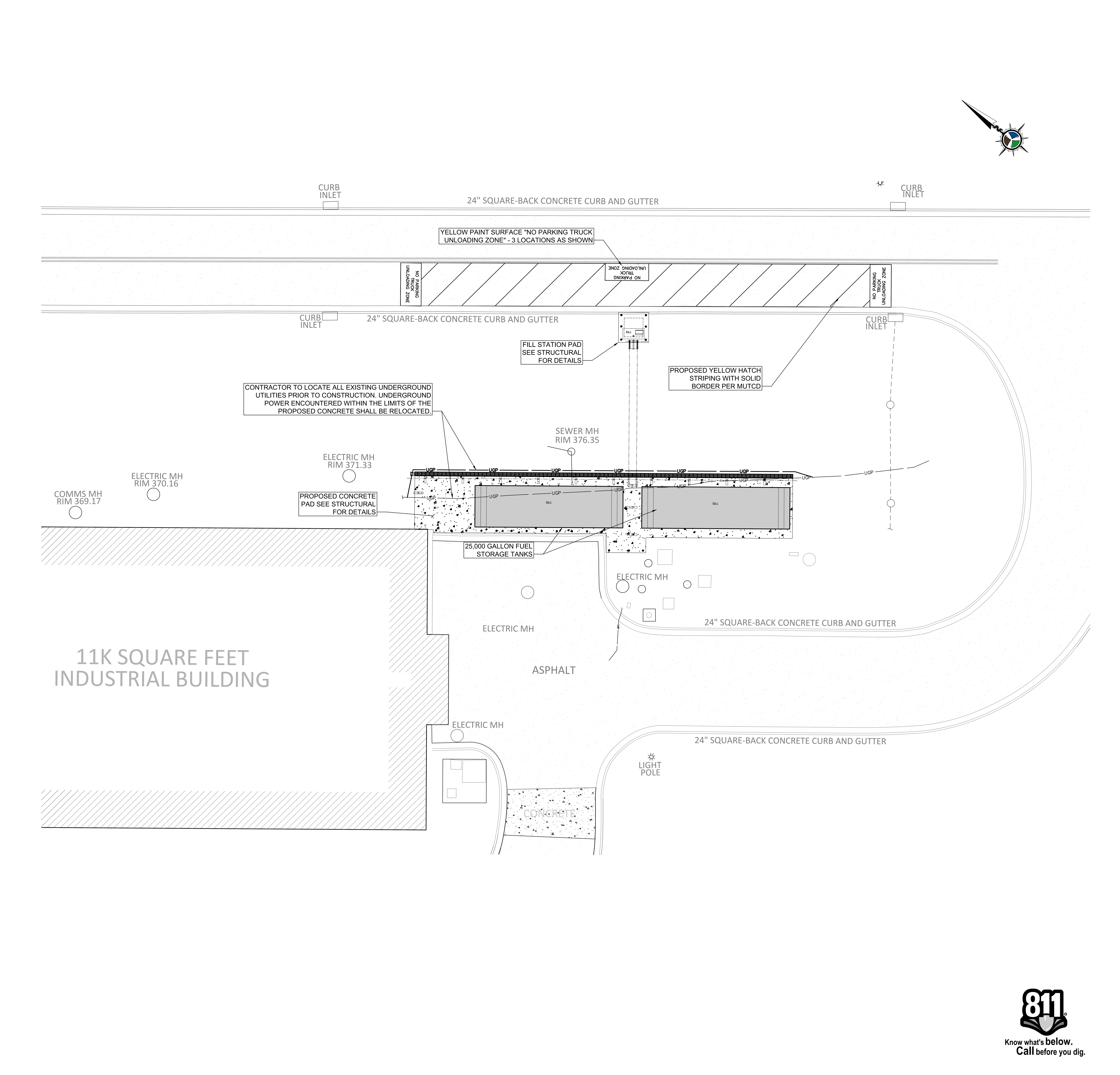
KEY PLAN

SHEET

C1.0 - TOPOGRAPHIC AND FEATURE SURVEY

DESIGN: CST
DRAWN: CST
REVIEW: JDW

CN 10709 - 100



GENERAL NOTES

KEY NOTES

GRAPHIC SCALE(S)

GRAPHIC SCALE IN FEET
SCALE: 1"=10'

MACON WATER AUTHORITY (MWA)

AMERSON WATER TREATMENT PLANT GENERATOR FUEL SYSTEM REPLACEMENT

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PROFESSIONAL SEAL

SUBMITTAL
6/1/2026
ISSUE FOR CONSTRUCTION

REVISIONS

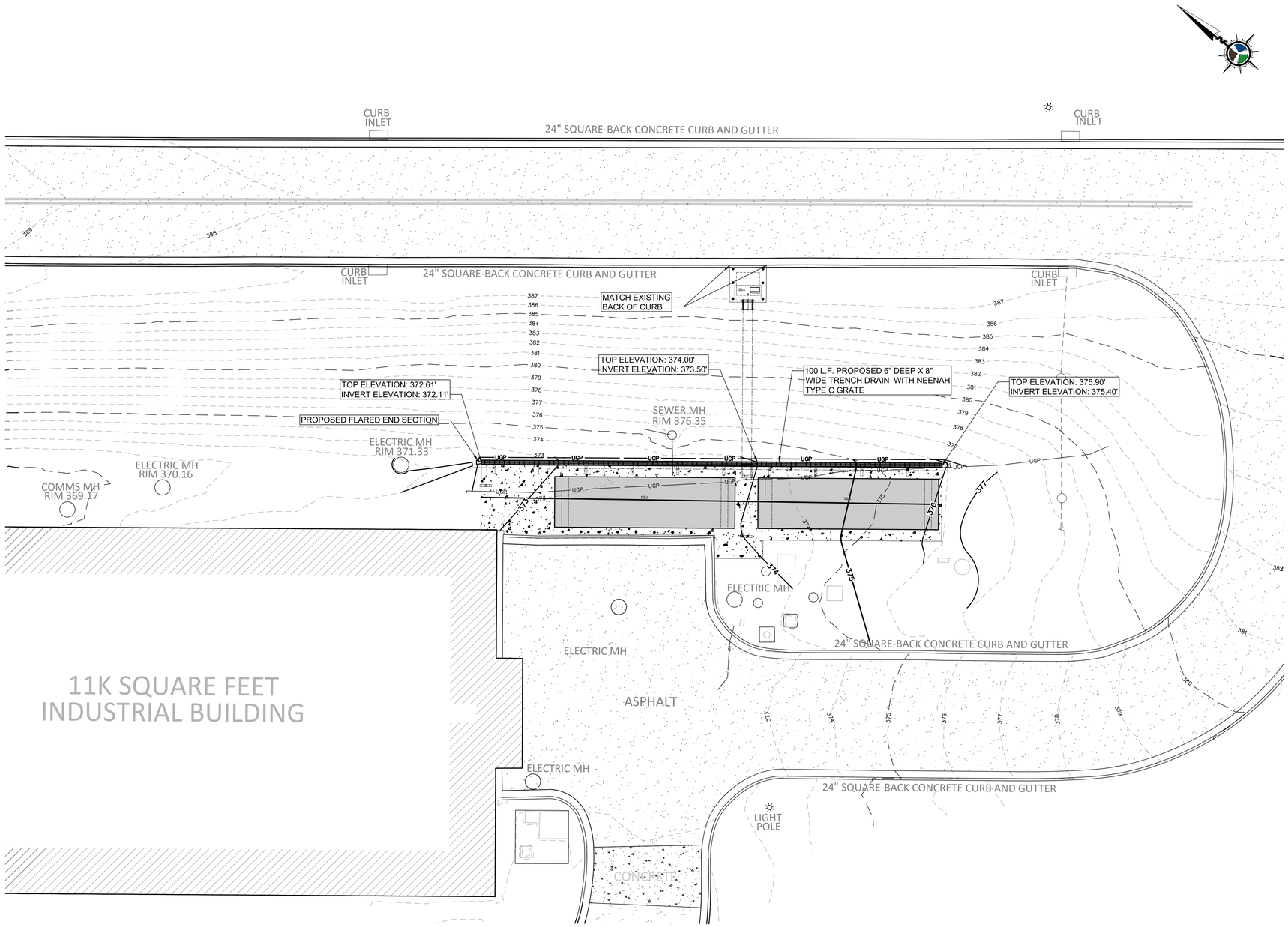
KEY PLAN

SHEET

C2.0 - SITE LAYOUT PLAN

DESIGN: CST
DRAWN: JCR
REVIEW: RRW

CN 10709 - 100



Know what's **below.**
Call before you dig.

GRAPHIC SCALE(S)

10 0 10 20 30

GRAPHIC SCALE IN FEET
SCALE: 1"=10'

MACON WATER AUTHORITY (MWA)

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PROFESSIONAL SEAL

GEORGIA REGISTERED 06/1/2026 CLINTON SANDERS TERRY

SUBMITTAL

6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

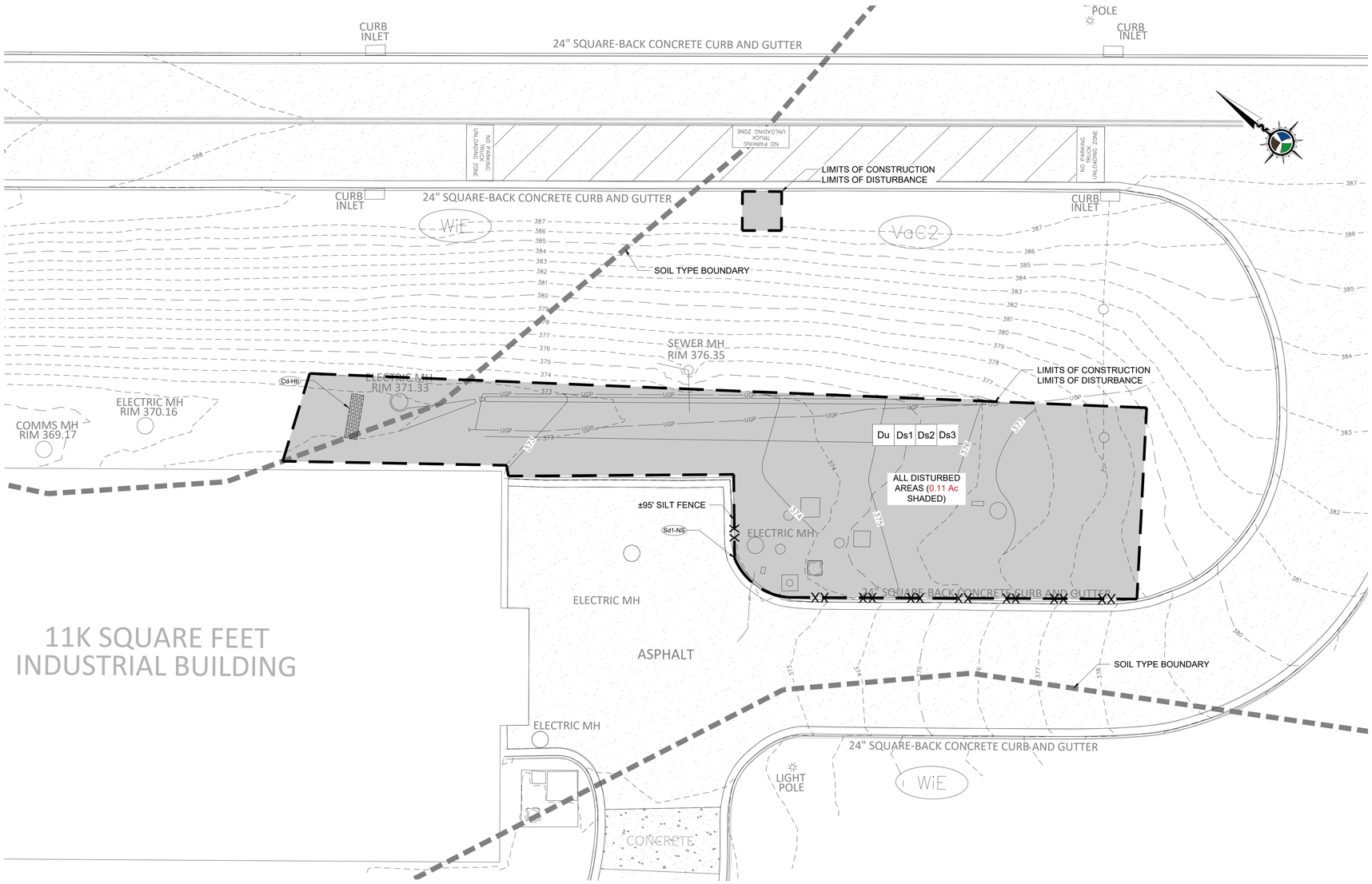
KEY PLAN

SHEET

C3.0 - GRADING & DRAINAGE PLAN

DESIGN: CST
DRAWN: JCR
REVIEW: RRW

CN 10709 - 100



SOILS LEGEND		HYDROLOGIC SOIL GROUP
VaC2 SANDY LOAM	6% TO 10% SLOPES	C
WiE SANDY LOAM	10% TO 25% SLOPES	D

Know what's **below.**
Call before you dig.

GSWCC Georgia Soil and Water Conservation Commission

Clinton S Terry
Level II Certified Design Professional

Certification Number: 0000084382
Issued: 11/03/2023 Expires: 11/03/2026

KEY NOTES

EROSION AND SEDIMENTATION CONTROL NOTES

1. These notes are taken from the Erosion, Sedimentation, and Pollution Control Plan Checklist for stand alone construction projects as published by the Georgia Soil and Water Conservation Commission on January 1, 2024.
2. The Level II certification number and seal of the certified Design Professional can be found on each sheet pertaining to the ES&PC plan (Sheet C4.0-C4.1).
3. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls shall be the general contractor's on-site representative who will be named prior to construction.
4. Total acreage of project area: 0.11 Acres
5. Disturbed acreage of project area: 0.11 Acres
6. The GPS location of the construction site is Latitude 32.905364° N, Longitude 83.663078° W.
7. The initial and/or revision date of this plan is depicted on the title block of each plan sheet. A notation shall be made on the plan of any revisions to the plan, the date of revision, and the entity that requested the revisions.
8. The construction activity includes erosion control, grading, building construction, and drainage improvements for the Generator Building at Amerson Water Treatment Plant.
9. A vicinity map showing site's relation to surrounding areas is depicted on the title sheet.
10. The project receiving waters include unnamed tributaries to Ocmulgee River.
11. I certify under penalty of law that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision. I am aware that there are significant penalties for submitted false information, including the possibility of fine and imprisonment for knowing violations.

Clinton S Terry — 12/01/2025
Design Professional — Date

12. Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.
13. The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.
14. Erosion control measures shall be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.
15. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.
16. All petroleum products shall be stored and used in an area that provides a secondary containment feature, and shall be located in an area with the least foreseeable impact if a catastrophic event should occur. Emergency contact numbers and procedures for spills shall be available on-site. All petroleum spills and leaks shall be remediated immediately. The flow must be stopped, contained, and affected soils removed. In the event of a spill or leak, contact First Environmental Nationwide toll free at (888) 720-1330.
17. A description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMP's, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization) is depicted on Sheet C4.1 of this plan.
18. A graphic scale and north arrow is depicted on Sheet C2.0.
19. Existing and proposed contour lines is depicted on Sheet C3.0. Contour lines are drawn at an interval of 1.0'. The existing contour lines are based on a field run survey by Jordan Engineering.
20. No alternate BMP's are proposed in this plan.
21. There are no 25-foot state waters buffers proposed for this project.
22. There are no state waters buffers impacts proposed for this plan.
23. The drainage basin consists of ±0.73 AC.
24. The pre-construction runoff runoff curve number is estimated to be 70. The post-construction runoff curve number is estimated to be 71.
25. No new storm drain outlets are proposed for this project..
26. Soil series and their delineation are depicted on Sheet C4.0.
27. The limits of disturbance for this site are depicted on Sheet C4.0.
28. Best management practices depicted on this plan are consistent with the requirements of the ***Manual for Erosion and Sediment Control in Georgia***. The legend for the BMP's can be found on this sheet.
29. Detailed drawings for all structural practices are depicted on Sheet C4.1 of this plan. The installation of these practices must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
30. A vegetative plan, noting temporary and permanent vegetative practices, is depicted on Sheet C4.1 of this plan.
31. Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the contractor.
32. Vehicles shall be cleaned of accumulated soil prior to exiting the construction site to a paved area or public right of way. No mud or soil shall be tracked off-site.
33. The contractor shall achieve final stabilization before the project is considered complete.

GRAPHIC SCALE(S)

10 0 10 20 30
GRAPHIC SCALE IN FEET
SCALE: 1"=10'

MACON WATER AUTHORITY (MWA)

AMERSON WATER TREATMENT PLANT GENERATOR FUEL SYSTEM REPLACEMENT

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Macon Water Authority

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PROFESSIONAL SEAL

GEORGIA REGISTERED No. 30021 PROFESSIONAL ENGINEER CLINTON SANDERS TERRY

SUBMITTAL
6/1/2026
ISSUE FOR CONSTRUCTION

REVISIONS

KEY PLAN

SHEET
C4.0 - ES&PC PLAN

DESIGN: CST
DRAWN: JCR
REVIEW: RRW

CN 10709 - 100

GEORGIA
UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co (LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr (LABEL)	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1 (LABEL)	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE		Dn2 (LABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr (LABEL)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Re (LABEL)	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING		Rt (LABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		(INDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN		Sd3 (LABEL)	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk (LABEL)	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM		Spb (LABEL)	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING		Sr (LABEL)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION		St (LABEL)	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		Tc	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING		Tp (SHOW STRIPPING AND STORAGE AREAS)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION		(DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (LABEL)	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

GaSWCC (Amended – 2013)

STARTING DATE: _____
COMPLETION DATE: _____

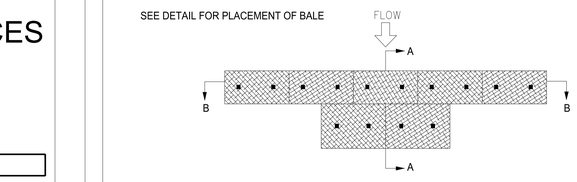
ITEM	DESCRIPTION	MONTHS OF CONSTRUCTION ACTIVITY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
1	SILT BARRIER INSTALLATION	
2	GRADING	
3	BUILDING CONSTRUCTION	
4	STORM DRAINAGE	
5	TEMPORARY GRASSING/MULCHING	AS NEEDED THROUGHOUT PROJECT
6	AGGREGATE BASE AND PAVING	
7	FINAL STABILIZATION & REMOVAL OF TEMPORARY STRUCTURES	
8	MAINTENANCE OF EROSION CONTROL STRUCTURES	

STARTING AND COMPLETION DATES ARE APPROXIMATE AND ARE NOT INTENDED TO BE CONTRACTUAL.

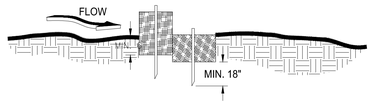
"FINAL STABILIZATION" MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION.

TYPICAL STRAW BALE CHECK DAM

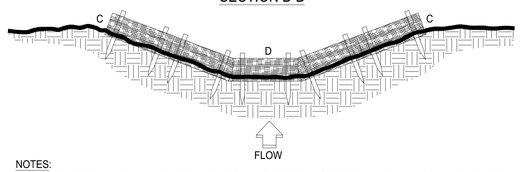
PLAN



SECTION A-A



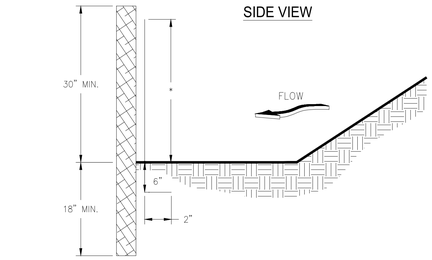
SECTION B-B



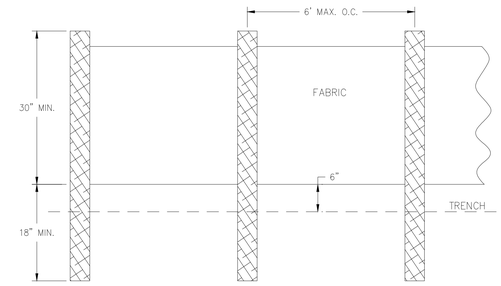
NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

Cd-Hb CHECK DAM – STRAW-BALE
N.T.S.

SIDE VIEW



FRONT VIEW



NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-NS SEDIMENT BARRIER – NON-SENSITIVE
N.T.S.

Du DUST SHALL BE CONTROLLED ON THIS SITE BY APPLYING A WATER SPRAY TO DISTURBED AREAS AS NEEDED.

Ds1 MULCHING RATES:
DRY STRAW OR HAY -SPREAD ST A RATE OF 2 1/2 TONS PER ACRE. WOOD WASTE, CHIPS, SAWDUST, OR BARK -SPREAD 2 TO 3 INCHES DEEP. EROSION CONTROL MATTING OR NETTING -APPLY IN ACCORDANCE WITH MFG. REC'S. CUTBACK ASPHALT, SLOW CURING - APPLY AT 1200 GALLONS PER ACRE.
POLYETHYLENE FILM - SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR PROTECTION.

Ds2 TEMPORARY VEGETATIVE SPECIFICATIONS;
TEMP. GRASSING SHALL BEGIN 2 WEEKS FOLLOWING INITIAL DISTURBANCE.

SPECIES	RATE PER 1000 SQ.FT.	RATE PER ACRE	PLANTING DATES
RYE	3.9 POUNDS	3 BU.	9–1 TO 1–1
RYE GRASS, ANNUAL	1 POUND	40–50 lbs.	9–1 TO 4–15
SUDAN GRASS	1.4 POUNDS	60 lbs.	4–1 TO 10–1
BROWN TOP MILLET	1 POUND	40 lbs.	4–1 TO 7–15
WHEAT	4.1 POUNDS	3 BU.	10–1 TO 1–1

Ds3

PERMANENT VEGETATIVE SPECIFICATIONS:

GRASS	SEEDING RATE	PLANTING DATES	FERTILIZER RATE N P K Year Per Acre
HULLED COMMON BERMUDA	8lbs./Ac	3–1 TO 6–15	6 12 12 1st. 1500 Lbs.
UNHULLED COMMON BERMUDA	10lbs./Ac	10–1 TO 3–1	SAME AS ABOVE
PENSACOLA BAHIA	60 Lb/Ac	Year Round	SAME AS ABOVE
MULCH – 2 1/2 TON/Ac.			
LIME – 1 TON/Ac.			

Know what's **below.** **Call** before you dig.

GSWCC Georgia Soil and Water Conservation Commission
Clinton S Terry
Level II Certified Design Professional
CERTIFICATION NUMBER 0000084382
ISSUED: 11/03/2023 EXPIRES: 11/03/2026

MACON WATER AUTHORITY (MWA)

AMERSON WATER TREATMENT PLANT GENERATOR FUEL SYSTEM REPLACEMENT

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SHEET
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DESIGN: CST
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CN 10709 - 100