ADDENDUM NUMBER ONE TOWN OF HOT SPRINGS WASTEWATER TREATMENT PLANT UPGRADE COLLAB_417(A) MADISON COUNTY, NORTH CAROLINA

This Addendum Number One is issued this the 11th day of September 2025 to all parties who hold a set of Bid Documents for the project entitled: "Wastewater Treatment Plant Upgrade". This Addendum Number One shall become part of the Contract Documents, and its receipt shall be acknowledged on the bid documents at the time of bidding.

Bid Date and Time

The date and time for receipt of bids is changed to **Wednesday September 17 2025 at 2:00pm** at the Hot Springs Community Building and Temporary Town Office, located at 43 N. Andrews Ave, Hot Springs, NC 28743.

GENERAL:

- A. See attachments for updated sheets G-001, G-002, CE-101, CD-101, C-101, C-102, C-103, C-104, C-105, C-106, C-107, including the following changes:
 - Removal of original base bid MBR configuration (end to end setup) from the contract. Formerly Alternate site plan MBR configuration (parallel setup) is now considered the base bid.
 - Updates to piping layout and underground/above ground configurations.
 Note that above ground piping is to be heat treated in accordance with Specification Section 404113 Heat Tracing for Piping.
 - Relocation of proposed emergency generator from CABC pad to be adjacent with existing electrical equipment. – see attached Electrical sheets E-101 to E-701.
 - Clarification that the contractor is responsible for supply and delegated design of stairways and walkway seen on sheet C-103.
- B. Clarification that the stainless-steel pipes and air goosenecks called out on Plan Sheet C-105 Blower Details are a pre-installed component of the Modular MBR Unit that has been prepurchased by the town.
- C. The 10' X 10' X 8' wall height proposed prefabricated building serving as the sludge pump shed & electrical building is to be supplied by the contractor. Additionally, the NPW pressure tank and enclosure is to be an 8' X 8' X 8' wall height prefabricated building is to be supplied by the contractor. These buildings are to be fiberglass single-piece equipment shelters, with Openchannelflow being a prequalified manufacturer. The sludge pump shed and electrical building is to have a lighting system, 1500 W heating system, and fan. The NPW building is to have a lighting and 1500 W heating system.

- D. Verification that the two sludge pumps are prepurchased by the town. The sludge pumps are Seepex Progressive Cavity Pumps, BN 35-6L, sized at approximately 107" X 17" X 15" and weighing 670 pounds. The four (4) sludge storage containers, including three (3) 12,000 gallon tanks and one (1) 8,500 gallon tank, are also prepurchased by the town.
- E. Clarification that the town is responsible for transporting the equipment to the WWTP site. The contractor is responsible for unloading and installing all equipment.

ATTACHMENTS:

G-001

G-002

G-003

CE-101

CD-101

C-101

C-102

C-103

C-104

C-105

C-106

G-107

C-501

C-502

C-503

E-101

E-102

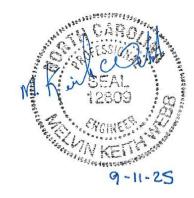
E-503

E-601

E-701

Updated Bid Form

This Addendum Number One is issued this the 11th day of September 2025.



M. Keith Webb, PE



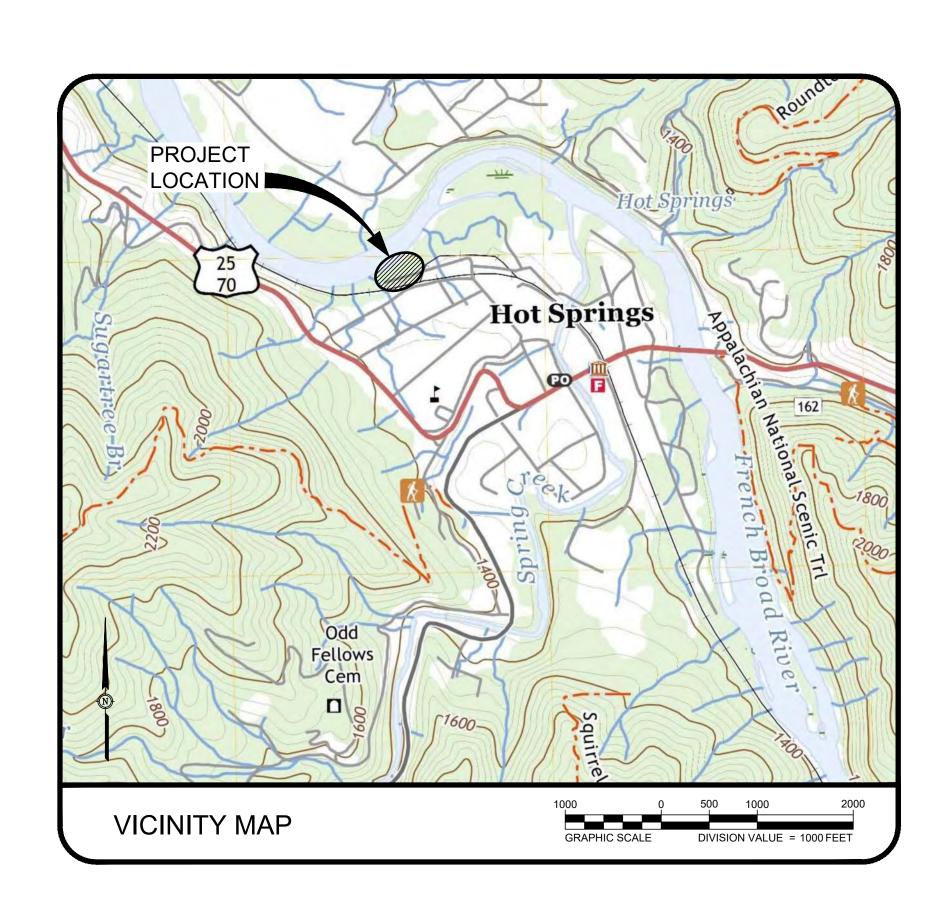
McGILL ASSOCIATES, P.A. CONSULTING ENGINEERS ASHEVILLE, NORTH CAROLINA

22.00316

WASTEWATER TREATMENT PLANT UPGRADES

TOWN OF HOT SPRINGS

MADISION COUNTY - NORTH CAROLINA



SCHEDULE OF DRAWINGS

G-001	COVER SHEET
G-002	GENERAL NOTES AND LEGENDS
G-003	PROPOSED HYDRAULIC PROFILE
CE-101	EXISTING SITE PLAN
CD-101	DEMOLITION SITE PLAN
C-101	PROPOSED SITE PLAN
C-102	EXISTING TREATEMENT PLANT OUTER EDGE PLANS - INFLUENT PUMP STATION AND FLOW EQ PUMPS
C-103	PROPOSED TREATMENT UNITS - PLAN AND SECTION VIEW
C-104	BLOWER DETAILS
C-105	SLUDGE HOLDING TANKS - PLAN AND SECTION VIEW
C-106	SLUDGE PUMP BUILDING PLAN AND SECTION VIEWS
C-501	MISCELLANEOUS DETAILS
C-502	MISCELLANEOUS DETAILS
C-503	MISCELLANEOUS DETAILS
E-001	ELECTRICAL LEGEND, NOTED, SCHEDULE, AND ABBREVIATIONS
E-101	ELECTRCAL SITE PLAN
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-601	ELECTRCIAL ONE-LINES
E-701	ELECTRICAL SCHEDULES





FINAL DRAWING
FOR REVIEW
PURPOSES ONLY
NOT RELEASED
FOR
CONSTRUCTION

UPDATED JANUARY, 2023

- FINISH GRADE TOLERANCES SHALL BE AS NOTED IN THE SPECIFICATIONS. THE ENGINEER MAY MAKE GRADE CHANGES AS REQUIRED IN THE FIELD WITHOUT EFFECTING THE UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION.
- UNLESS OTHERWISE STATED, ALL FILL AREAS SHALL BE CONSTRUCTED IN LAYERS OF 8" MAXIMUM THICKNESS, WITH WATER ADDED OR SOIL CONDITIONED TO THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE ENGINEER AND COMPACTED WITH A SHEEP'S FOOT ROLLER TO A COMPACTION EQUAL TO OR GREATER THAN 95% (100% IN THE TOP 2' OF THE SUB GRADE BELOW ROADWAYS AND PARKING LOTS) OF THE DENSITY OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH THE STANDARD PROCTOR METHOD OF MOISTURE-DENSITY RELATIONSHIP TEST, ASTM D698 OR AASHTO-99 UNLESS SPECIFIED IN OTHER SPECIFICATIONS.
- ENTIRE AREA TO BE GRADED SHALL BE CLEARED AND GRUBBED. NO FILL SHALL BE PLACED ON ANY AREA NOT CLEARED AND GRUBBED.
- ALL SOIL EROSION CONTROL MEASURES REQUIRED BY THE GRADING PLAN SHALL BE PERFORMED PRIOR TO GRADING, CLEARING OR GRUBBING. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES, ETC., SHALL BE MAINTAINED IN WORKABLE CONDITION FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT ONLY ON THE ENGINEER'S APPROVAL. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO CLEARING AND GRUBBING. IF DURING THE LIFE OF THE PROJECT, A STORM CAUSES SOIL EROSION WHICH CHANGES FINISH GRADES OR CREATES "GULLIES" AND "WASHED AREAS", THESE SHALL BE REPAIRED AT NO EXTRA COST, AND ALL SILT WASHED OFF OF THE PROJECT SITE ONTO ADJACENT PROPERTY SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AT NO EXTRA COST. THE CONTRACTOR SHALL ADHERE TO ANY APPROVED EROSION CONTROL PLANS WHETHER INDICATED IN THE CONSTRUCTION PLANS OR UNDER SEPARATE COVER.
- DISPOSABLE MATERIAL
- A. CLEARING AND GRUBBING WASTES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE, UNLESS SPECIFIED OTHERWISE.
- SOLID WASTES TO BE REMOVED. SUCH AS SIDEWALKS, CURBS, PAVEMENT, ETC., MUST BE PLACED IN SPECIFIC DISPOSAL AREAS DELINEATED ON THE PLANS OR REMOVED FROM TH SITE AS REQUIRED BY THE SPECIFICATIONS. THIS MATERIAL SHALL HAVE A MINIMUM COVER OF 2'. THE CONTRACTOR SHALL MAINTAIN SPECIFIED COMPACTION REQUIREMENTS IN THESE AREAS. WHEN DISPOSAL SITES ARE NOT PROVIDED, THE CONTRACTOR SHALL REMOVE THIS WASTE FROM THE SITE AND PROPERLY DISPOSE OF IT AT HIS EXPENSE.
- ABANDONED UTILITIES SUCH AS CULVERTS, WATER PIPE, HYDRANTS, CASTINGS, PIPE APPURTENANCES, UTILITY POLES, ETC., SHALL BE THE PROPERTY OF THE SPECIFIC UTILITY AGENCY OR COMPANY HAVING JURISDICTION. BEFORE THE CONTRACTOR CAN REMOVE. DESTROY, SALVAGE, REUSE, SELL OR STORE FOR HIS OWN USE ANY ABANDONED UTILITY. HE MUST PRESENT TO THE OWNER WRITTEN PERMISSION FROM THE UTILITY INVOLVED.
- ON SITE BURNING MAY BE AN ACCEPTABLE METHOD OF DISPOSING OF FLAMMABLE WASTES. WHEN BURNING IS ANTICIPATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND MEETING GOVERNING CODES ANY ON-SITE BURNING MUST COMPLY WITH THE NORTH CAROLINA DIVISION OF AIR QUALITY (DAQ) REQUIREMENTS, CONTACT DAQ AT 704-663-1699 TO VERIEY WHAT ON-SITE BURNING IS ALLOWED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR HIS REPRESENTATIVE AS TO THE SPECIFIC LOCATION OF BURNING. AFTER BURNING IS COMPLETED, PURE ASH MAY BE DISPOSED OF BY MIXING IT WITH FILL DIRT. ALL MATERIAL NOT TOTALLY BURNING SHALL BE DISPOSED OF AS SPECIFIED IN SECTION "B" ABOVE. THE CONTRACTOR SHALL NOT HOLD UP THE WORK PROCESS FOR THE PURPOSE OF WAITING FOR A BURNING DAY
- IN THE EVENT EXCESSIVE GROUNDWATER OR SPRINGS ARE ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR EVALUATION AND INSTRUCTION ON HOW TO PROCEED. IN THE EVENT THAT DEWATERING OR LOWERING OF THE WATER TABLE IS NECESSARY, NCDEQ DWR SHALL BE CONTACTED PRIOR TO ANY WORK BEING PERFORMED. ALL WORK SHALL BE PAID FOR BASED UPON THE UNIT BIDS UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ADJUSTMENT OF ALL UTILITY SURFACE ACCESSES WHETHER HE PERFORMS THE WORK OR A UTILITY COMPANY PERFORMS THE WORK.
- THE CONTRACTOR SHALL CONTROL ALL "DUST" BY PERIODIC WATERING AND SHALL PROVIDE ACCESS. AT ALL TIMES FOR PROPERTY OWNERS WITHIN THE PROJECT AREA AND FOR EMERGENCY VEHICLES. ALL OPEN DITCHES AND HAZARDOUS AREAS SHALL BE CLEARLY MARKED IN ACCORDANCE WITH THE
- ALL AREAS WHERE THERE IS EXPOSED DIRT SHALL BE SEEDED, FERTILIZED AND MULCHED ACCORDING TO THE SPECIFICATIONS. THE FINISHED SURFACE SHALL BE TO GRADE AND SMOOTH FREE OF ALL ROCKS LARGER THAN 3" FOLLIPMENT TRACKS DIRT CLODS BLIMPS RIDGES AND GOLIGES PRIOR TO SEFDING: THE SURFACE SHALL BE LOOSENED TO A DEPTH OF ±4"-6" TO ACCEPT SEED. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING OPERATIONS WITHOUT FIRST OBTAINING THE ENGINEER'S APPROVAL OF THE GRADED SURFACE. ALL SEEDING SHALL BE PERFORMED BY A MECHANICAL "HYDRO-SEEDER". HAND SEEDING SHALL BE AUTHORIZED ON AN AREA BY AREA APPROVAL BY THE ENGINEER.
- WHERE SPECIFIED, STORM DRAIN PIPE SHALL BE CORRUGATED METAL PIPE (CMP) CONFORMING TO AASHTO M-36, WITH RE-ROLLED ENDS TO ACCOMMODATE CORRUGATED COUPLING BANDS. 18" PIPE SHALL BE 16 GAUGE, 24" AND 30" PIPE SHALL BE 14 GAUGE AND 36" PIPE AND OVER SHALL BE 12 GALIGE AS SPECIFIED ON THE PLANS. PIPE AND COLIPLING BANDS SHALL CONFORM TO NODOT 1032-3 FOR PLAIN PIPE OR 1032-4 (A) FOR BITUMINOUS COATED AND PARTIALLY PAVED PIPE. DIMPLE BANDS SHALL NOT BE USED.

WHERE SPECIFIED, STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CONFORMING TO AASHTO M-170, AS CONTAINED IN NCDOT STANDARD SPECIFICATION 1032-9 FOR WALL "B" TYPE. WHERE SPECIFIED, ALL STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE). SMOOTH WALL INTERIOR, WITH WATER TIGHT JOINTS, BACKFILLED WITH # 57 WASHED STONE UP TO MIN. 6" OVER THE TOP OF THE PIPE. HDPE PIPE USED FOR STORM DRAINAGE DETENTION SYSTEMS SHALL BE "HANCOR BLUE SEAL" OR APPROVED EQUAL.

ALL CORRUGATED METAL STORM DRAIN PIPE (CMP) SHALL BE ALUMINIZED TYPE 2 CORRUGATED STEEL MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M—36. THE PIPE SHALL BE MANUFACTURED FROM ALUMINIZED STEEL TYPE 2 MATERIAL CONFORMING TO THE REQUIREMENTS OF AASHTO M-274. ALL PIPE SHALL BE FURNISHED WITH RE-ROLLED ENDS AND SHALL BE JOINED WITH HUGGER BANDS. THE USE OF DIMPLE BANDS WILL NOT BE ALLOWED. PIPE THROUGH 24" DIAMETER SHALL BE 16 GAUGE, PIPE THROUGH 42" DIAMETER SHALL BE 14 GAUGE, PIPE THROUGH 54" DIAMETER SHALL BE 12 GAUGE.

- CONTRACTOR SHALL VERIFY ALL ELEVATIONS BEFORE INSTALLATION OF FACILITIES.
- CATCH BASINS CAST-IN-PLACE SHALL CONFORM TO THE REQUIREMENTS OF NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES (LATEST EDITION) ARTICLES 840-1 THROUGH 840-3. CURB INLET CATCH BASIN SHALL CONFORM TO NCDOT STANDARD DETAILS 840.02 THROUGH 840.04. DROP INLETS SHALL CONFORM TO STANDARD DETAIL 840.14. JUNCTION BOXES SHALL CONFORM TO STANDARD DETAIL 840.31.
- CURB INLET FRAME, GRATE AND HOOD SHALL BE NEENAH R-3233D, PRODUCTS BY DEWEY BROS., U.S. FOUNDRY OR EQUAL. DROP INLET FRAME AND GRATE SHALL BE NEENAH R-3339A OR EQUAL. FIELD INLET COVER SHALL CONFORM TO NCDOT STANDARD DETAIL 840.04, OPENING FACING UPSTREAM.
- CONCRETE AND MASONRY SHALL MEET THE REQUIREMENTS OF APPROPRIATE SECTION OF NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES (LATEST EDITION). CONCRETE SHALL BE CLASS A OR B, 4000 PSI MINIMUM, MEETING THE REQUIREMENTS OF SECTION 1000, CONSTRUCTED IN ACCORDANCE WITH SECTION 825. MASONRY SHALL MEET THE REQUIREMENTS
- OF SECTION 1040, CONSTRUCTED IN ACCORDANCE WITH SECTION 830 AND/OR 834. 15. TOPS OF PROPOSED FRAMES AND GRATES SHALL BE FLUSH WITH FINISHED GRADE.
- 16. PRE-CAST CONCRETE BOXES ARE ACCEPTABLE ALTERNATIVES FOR PROPOSED CATCH BASINS.
- 17. NO TREE CLEARING ACTIVITIES SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 15TH.

UPDATED MARCH, 2017

- 1. ALL CONSTRUCTION OUTSIDE RIGHTS-OF-WAY SHALL TAKE PLACE WITHIN THE PERMANENT AND TEMPORARY ACCESS EASEMENTS SHOWN.
- 2. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN THE ORIGINAL SITE, OR AS NOTED.
- 3. LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS ARE TO BE VERIFIED
- 4. ALL WORK NEAR AND AROUND WATERWAYS MUST CONFORM TO THE RULES OF THE STATE OF NORTH CAROLINA.
- CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY REGULATIONS PERTAINING TO CONSTRUCTION OPERATIONS.
- 7. SEWER FORCE MAINS AND WATER LINES SHALL HAVE 3'-0" MINIMUM COVER UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- SEPARATION WITH THE WATER OVER SEWER, OR BOTH WATER AND SEWER LINES SHALL BE DUCTILE IRON PIPE 10' EITHER SIDE OF THE CROSSING.
- 9. SEWER AND STORM SEWER LINES SHALL HAVE A MINIMUM 24" SEPARATION. IF 24" SEPARATION IS NOT OBTAINABLE, DUCTILE IRON PIPE SHALL BE USED FOR THE SEWER LINE OR A SUPPORTING MATERIAL SUCH AS FLOWABLE FILL SHALL BE INSTALLED BETWEEN THE PIPES.
- 10. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SHALL BE FLANGED JOINT.
- 12. LEGAL DESCRIPTIONS FOR PROPOSED EASEMENTS BY OTHERS.
- 14. CONTRACTOR SHALL NOTIFY THE PROPER LOCAL AUTHORITIES 24 HOURS PRIOR TO ANY ROAD BEING CLOSED FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO LOCAL NEWSPAPER, RADIO STATION, FIRE DEPARTMENT, COUNTY SHERIFF'S DEPARTMENT, AMBULANCE, AND COUNTY EMERGENCY AGENCY. ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
- 15. CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER EXISTING BURIED UTILITIES HAVE BEEN LOCATED AND 24
- 16. LOCATIONS SHOWN FOR SANITARY SEWER SERVICES ARE ASSUMED. COORDINATE LOCATIONS OF ALL PROPOSED SEWER SERVICE CONNECTIONS WITH PROPERTY OWNER PRIOR TO CONSTRUCTION.
- 17 CONTRACTOR SHALL FIELD VERIEY ALL PROPOSED MANHOLF TOP FLEVATIONS AND EXISTING MANHOLF INVERTS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL ADJUST ALL PROPOSED SEWER STRUCTURES TO MATCH FINISHED PAVEMENT ELEVATIONS. COSTS OF RAISING STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO OTHER WORK ON THE PROJECT.
- 18. MANHOLES AND CASTINGS SHALL MEET THE REQUIREMENTS OF OWNER AS WELL AS THE PROJECT SPECIFICATIONS.
- 19. 4" SANITARY SEWER SERVICE LINES SHALL BE INSTALLED AT 2.0% MINIMUM SLOPE AND SHALL BE DUCTILE IRON IN PAVED AREAS.
- 20. ALL FENCE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIALS IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH STANDARD FENCE CONSTRUCTION PRACTICES AT THE CONTRACTOR'S
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS DURING CONSTRUCTION AND SHALL REPAIR ROADS PER REQUIREMENTS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. NO OPEN CUTS OF EXISTING ROADS SHALL BE ALLOWED EXCEPT WHERE INDICATED ON THE DRAWINGS OR WHERE SPECIFIC PERMISSION IS GRANTED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION. SAND OR A SIMILAR MATERIAL APPROVED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SHALL BE PLACED ON THE ROAD TO AID IN THE CLEAN UP AFTER CONSTRUCTION. A MINIMUM OF 2" OF SAND SHALL BE PLACED ON THE ROAD PRIOR TO STOCKPILING SPOIL MATERIAL ON THE ROAD SURFACE TO FACILITATE CLEANUP.
- 23. CONTRACTOR SHALL MAINTAIN SEWAGE FLOW IN SEWER SYSTEM AT ALL TIMES AND SHALL PROVIDE BYPASS PUMPING AND/OR PIPING AS REQUIRED. NO SANITARY SEWER OVERFLOWS ARE PERMITTED.

PLANT CONSTRUCTION SEQUENCE

- IN THE FIELD BY THE CONTRACTOR. AT LEAST THREE DAYS PRIOR TO CONSTRUCTION, CONTRACTOR MUST NOTIFY EXISTING UTILITY OWNERS. CALL 811 BEFORE YOU DIG
- 5. CONTRACTOR MUST PROVIDE EROSION CONTROL DEVICES TO CONTROL RUNOFF FROM THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES THAT MAY BE LEVIED DUE TO POLLUTION CREATED DURING CONSTRUCTION.
- WATER AND SEWER LINES SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION OR A MINIMUM 18" VERTICAL

- 11. UNLESS OTHERWISE NOTED, ALL BURIED PIPE SHALL BE INSTALLED WITH PUSH-ON JOINTS AND EXPOSED PIPING
- 13. SITE TOPOGRAPHIC AND BOUNDARY SURVEY PROVIDED BY SURVEYOR NOTED ON PLANS.
- HOURS PRIOR TO CONSTRUCTION.

- 21. CONTRACTOR SHALL FIELD LOCATE ALL BURIED TELEPHONE LINE IN CONFLICT WITH THE PROPOSED UTILITY LINE. WHERE NECESSARY, EXISTING BURIED TELEPHONE LINE SHALL BE TEMPORARILY MOVED DURING CONSTRUCTION OF THE PROPOSED UTILITY LINE AND RE-LAID AT NO ADDITIONAL COST TO THE OWNER.

EROSION CONTROL CONSTRUCTION SEQUENCE

a.A POSTED COPY OF THE "EROSION AND SEDIMENT CONTROL APPROVAL" ISSUED BY CATAWBA COUNTY.

3.CONTACT THE NCDEQ ASHEVILLE REGIONAL OFFICE AT (828) 296-4500 FOR A PRE-CONSTRUCTION MEETING.

8.INSTALL SILT FENCE AS SHOWN ON PLANS, CLEARING ONLY WHAT IS NECESSARY TO INSTALL THE SILT FENCE.

GROUND COVER TO BE INSTALLED ON PERMANENT DIVERSION DITCHES IMMEDIATELY UPON CONSTRUCTION.

2.PRIOR TO BEGINNING WORK ON THE PROJECT, THE CONTRACTOR SHALL OBTAIN FROM THE OWNER AND KEEP AT THE

b.A CERTIFICATE OF COVERAGE (COC) ISSUED BY NCDEQ FOR COVERAGE UNDER THE NCGO1 CONSTRUCTION

5.THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL RECORDS REQUIRED BY NCDEQ FOR THE INSTALLATION AND

9.INSTALL PERMANENT DIVERSIONS AS SHOWN ON PLANS TO DIRECT RUNOFF THROUGH OR AROUND THE SITE. ADEQUATE

10. NOTIFY THE NCDEQ ASHEVILLE REGIONAL OFFICE FOR INSPECTION OF EROSION CONTROL MEASURES PRIOR TO ANY LAND

12. INSTALL TEMPORARY SEWER BYPASS LINE AND DEMOLISH/REMOVE EXISTING GRAVITY SEWER WITHIN THE PROJECT AREA

16. EROSION CONTROL MEASURES SHALL BE MAINTAINED DURING THE ENTIRE LENGTH OF THE PROJECT AND UNTIL THE SITE

17. UPON COMPLETION OF GRADING AND SITE STABILIZATION, THE CONTRACTOR SHALL NOTIFY NCDEQ ASHEVILLE REGIONAL OFFICE FOR POST DISTURBANCE INSPECTION OF EROSION CONTROL MEASURES WITH THE NCDEQ INSPECTOR. ALL EROSION

CONTROL MEASURES LISTED ON THE PLANS ARE TO REMAIN IN PLACE, NO MEASURE SHALL BE REMOVED WITHOUT PRIOR

13. SEED/GRASS FOR STABILIZATION ON ALL NEW CUT AND FILL SLOPES WITHIN 7 DAYS AFTER COMPLETION OF ANY

14. FINAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE FINAL EROSION CONTROL PLANS.

15. AS STORM INFRASTRUCTURE BECOMES ACTIVE, INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY.

1. OBTAIN THE EROSION CONTROL PERMIT FROM THE NCDEQ ASHEVILLE REGIONAL OFFICE IF REQUIRED.

STORMWATER GENERAL PERMIT, AND A COPY OF THE NCGO1 GENERAL PERMIT.

7.CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON PLANS.

DECOMMISSIONING NOTES

- 1.1. ALL EXISTING EQUIPMENT TO BE DEMOLISHED SHALL BE DECOMMISSIONED. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL LIQUID, SOLIDS, AND WASTE FROM EQUIPMENT IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- 1.2. LIQUIDS IN TANKS SCHEDULED TO BE REHABILITATED OR REMOVED FROM SERVICE SHALL BE PUMPED AND SCREENED WITH CONTRACTOR'S EQUIPMENT, AND THEN DISPOSED OF PROPERLY.
- 1.3. WASH DOWN WALLS AND EQUIPMENT OF AREAS SCHEDULED FOR WORK TO REMOVE RESIDUE TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- 1.4. UNDERGROUND PIPING TO BE ABANDONED MAY BE LEFT IN PLACE AFTER IT HAS BEEN PROPERLY FLUSHED, DRAINED, AND PLUGGED.
- 1.5. FILL PIPES ABANDONED UNDER STRUCTURES AND BUILDINGS WITH FLOWABLE FILL.

GENERAL REQUIREMENTS

- 2.1. THE CONTRACTOR SHALL SCHEDULE WORK TO ENSURE THAT THE WASTEWATER TREATMENT PLANT REMAINS IN OPERATION AT ALL TIMES DURING CONSTRUCTION. ALL WORK SHALL BE CLOSELY COORDINATED WITH THE OWNER AND ENGINEER. ANY ACTIVITIES THAT REQUIRE TREATMENT PROCESSES TO BE TAKEN OUT OF SERVICE SHALL BE SCHEDULED WITH THE OWNER AND ENGINEER A MINIMUM OF THREE (3) WEEKS IN ADVANCE TO MAKE APPROPRIATE PROVISIONS TO SHUTDOWN PROCESSES.
- 2.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL APPLICABLE SALES TAX.
- 2.3. ALL LOCATIONS AND DIMENSIONS OF EXISTING EQUIPMENT, PIPING, SUPPORTS, CONCRETE PADS, AND OTHER COMPONENTS SHOWN ARE APPROXIMATE AND BASED UPON ORIGINAL DRAWINGS PROVIDED BY THE OWNER. ALL DIMENSIONS AND MATERIALS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR OCCUMENTATION OF COMMENTAL DRAWINGS PROVIDED BY THE OWNER. TO ORDERING MATERIALS.
- 2.4. EXISTING SYSTEMS SHALL REMAIN IN COMPLETE OPERATION UNTIL ALL NEW EQUIPMENT HAS BEEN DELIVERED.
- 2.5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER STORAGE, PROTECTION, WINTERIZATION, ETC. OF ALL NEW EQUIPMENT DELIVERED ON SITE. ALL MANUFACTURER'S STORAGE AND MAINTENANCE REQUIREMENTS SHALL BE COMPLIED WITH BY THE CONTRACTOR
- 2.6. THE CONTRACTOR SHALL AT ALL TIMES WORK IN A CLEAN AND SAFE MANNER.
- 2.7 ALL SAFETY FOLIPMENT INCLUDING THAT NECESSARY FOR CONFINED WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY
- 2.8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY MODIFICATIONS REQUIRED TO ENSURE PROPER INSTALLATION OF THE EQUIPMENT SHALL BE INCLUDED IN THE LUMP SUM BID PRICE.

BYPASS PUMPING REQUIREMENTS:

- 3.1. THE BYPASS PUMPING CONSTRUCTION SEQUENCE PROVIDED HEREIN IS BEING PROVIDED AS A GUIDE FOR THE CONTRACTOR TO FOLLOW. SOME ITEMS MAY BE PERFORMED CONCURRENTLY IF APPROVED BY THE ENGINEER. ANY DEVIATION FROM THIS SEQUENCE REQUIRES PRIOR WRITTEN APPROVAL BY THE ENGINEER. ▲ G/M
- 3.2. ALL SHUT-DOWNS SHALL BE COORDINATED WITH THE TOWN. THE TOWN AND THE ENGINEER SHALL RECEIVE NOTICE OF THE SHUT-DOWN NO LESS THAN THREE (3) WEEKS PRIOR TO THE SHUTDOWN.
- 3.3. BYPASS PUMPING SETUPS AND PIPING ROUTES SHALL BE DETERMINED BY THE CONTRACTOR. BYPASS PUMPING SHALL BE RESTRAINED AND SUPPORTED AT MAIN PIPING SHALL BE RESTRAINED AND SUPPORTED AT THE CONTRACTORS DISCRETION.
- 3.4. PROVIDE HIGH LEVEL ALARM IN UPSTREAM MANHOLE/STRUCTURE AND CELLULAR NOTIFICATION TO RESPONSIBLE PARTY (CONTRACTOR). 3.5. WHEN TEMPORARY BYPASS LINE(S) DISCHARGE INTO STRUCTURES, THE BYPASS PIPES SHALL BE ANCHORED TO THE CONCRETE AND ORIENTED DOWNWARD
- 3.6. SHOULD UNFORESEEN CIRCUMSTANCES DICTATE LONGER THAN ANTICIPATED BYPASS PUMPING TIMES, THE CONTRACTOR SHALL CONTINUE BYPASS PUMPING AT NO ADDITIONAL COST TO THE OWNER.
- DETAILED CONSTRUCTION SEQUENCING
- 4.1. A DETAILED CONSTRUCTION SEQUENCE SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR EACH NEW TREATMENT UNIT/STRUCTURE. APPROVAL OF THE CONSTRUCTION SEQUENCE BY THE ENGINEER AND THE OWNER IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORK. INCLUDED IN THIS ARE THE FOLLOWING ITEMS: INFLUENT/EQ PUMPS, REWASH WATER PUMPS AND PRESSURE TANK, MODULAR MBR UNITS AND CORRESPONDING EQUIPMENT, SLUDGE PUMP AND ELECTRICAL BUILDING, SLUDGE STORAGE AND ASSOCIATED PIPING AND ELECTRICAL EQUIPMENT.
- 4.2. PRIOR TO PUTTING THE MODULAR MBR UNITS ONLINE, THEY MUST BE SEEDED UTILIZING SLUDGE FROM THE EXISTING FACILITY. SEE SPECIFICATION 467000 FOR FURTHER DETAILS ON THIS.

RESTORATION

- 5.1. PERFORM FINAL CLEAN-UP WORK, GRASSING, SEEDING, AND ALL REQUIRED RESTORATION OF SURFACES IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS
- 5.2. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN THE ORIGINAL SITE.

MAINTENANCE PLAN

- 1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN
- NO CASE NOT LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED. 2.SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT ONE-HALF THE HEIGHT OF THE SILT FENCE. THE SILT FENCE SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- 3.INSPECT PERMANENT DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.
- 4.INSPECT INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL.
- REPLACE STONE AS NEEDED. 5.ALL SEEDED AREAS SHALL BE FERTILIZED, RESEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE SEEDING SPECIFICATION TO MAINTAIN A VIGOROUS AND DENSE VEGETATIVE COVER.
- 6.MAINTAIN ALL MATTING THAT HAS BEEN PLACED ON SLOPES AND IN DITCHES. CHECK FOR GOOD GROUND CONTACT AND FOR THE OCCURRENCE OF ANY EROSION UNDER THE MATTING. MONITOR AND REPAIR OR REPLACE AS NECESSARY.

7.THE CONTRACTOR SHALL MAINTAIN SELF INSPECTION REPORTS AS REQUIRED BY NCDEQ AND THE NPDES CONSTRUCTION STORMWATER PERMIT.

SELF-INSPECTIONS ARE TO BE CONDUCTED AFTER EACH PHASE OF THE PROJECT FOR THE RECORD OF THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL MEASURES. FOR DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, DWQ AND DEMLR DEVELOPED A COMBINED FORM. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES

ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT AND CONTINUE UNTIL PERMANENT

GROUND COVER IS ESTABLISHED. THE FORM CAN BE ACCESSED AT: HTTPS: //DEQ.NC.GOV/ABOUT/DIVISIONS/ENERGY-MINERAL-LAND-RESOURCES/EROSION-SEDIMENT-CONTROL/FORMS

EXISTING

√UG ELEC

UP

MH

SSMH

SDMH

⊙ C.O.

O F.SS

Q FH

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▲ G/V

EXISTING CONDITIONS LEGEND					
TELEPHONE PEDESTAL	Δ	CALCULATED POINT			
ELECTRIC PEDESTAL	OIPS	1/2" REBAR SET WITH CAP			
CABLE TV PEDESTAL		CONCRETE MONUMENT			
SIGN	⊠CM-R/W	RIGHT-OF-WAY MONUMENT			
UNDERGROUND CABLE TV SIGN	ODOT MON	D.O.T. CONTROL POINT			
UNDERGROUND FIBER OPTIC CABLE SIGN	RBF	REBAR FOUND			
UNDERGROUND TELEPHONE CABLE SIGN	RRSPIKE	RAILROAD SPIKE			
UNDERGROUND GAS LINE SIGN		PK NAIL FOUND / SET			
UNDERGROUND ELECTRIC LINE SIGN	SPINDLE	SPINDLE FOUND / SET			
LIGHT POLE	0	HUB & TACK SET			
UTILITY POLE		CONTROL POINT NAIL SET / FOUND			
GUY WIRE ANCHOR TRAFFIC SIGNAL POLE		CONTROL POINT/NAIL SET GPS			
RAILROAD CROSSING SIGNAL	ØCP/TEMP	CONTROL POINT TEMPORARY MARK			
MANHOLE	4	NATIONAL GEODETIC SURVEY METAL ROD			
SANITARY SEWER MANHOLE		NATIONAL GEODETIC SURVEY CONCRETE MONUMENT			
STORM DRAIN MANHOLE	⊠ ∧	TEMPORARY CONTROL POINT SET NETWORK TRIANGULATION POINT			
COMMUNICATION MANHOLE		NETWORK INANOGEATION TOINT			
ELECTRICAL MANHOLE	▲ STAKE	STAKE FOUND			
JUNCTION BOX	40	INTERSTATE HIGHWAY			
SPIGOT/YARD HYDRANT	1661	U.S. HIGHWAY			
SEWER CLEAN-OUT	FFE ELEVATION	FINISHED FLOOR ELEVATION			
ELECTRIC SERVICE STUB-OUT	⊕ MW	MONITORING WELL			
GAS SERVICE STUB-OUT		PIEZOMETER			
CATCH BASIN	⊗	LANDFILL GAS MONITORING PROBE			
CURB INLET		SURFACE WATER SAMPLING LOCATION			
WATER METER		LANDFILL GAS VENT LANDFILL GAS COLLECTION WELLHEAD			
FIRE HYDRANT WATER VALVE	O (W)	POTABLE WATER WELL			
BLOW OFF VALVE		MAILBOX OR PAPER BOX			
GAS METER	□РВ	POSTAL DROP BOX			
GAS VALVE	∂ SAT DISH	SATELLITE DISH			
IRRIGATION CONTROL VALVE	YARD ORNAMENT	STATUE, BIRD BATHS, ETC.			
POST INDICATOR VALVE	Sir S	TREES			
ELECTRIC JUNCTION BOX OR OUTLET	£3	SHRUBS / BUSHES			
TRAFFIC SIGNAL BOX	(H) HORIZONTA	L GROUND DISTANCE			
	` '	PLANE GRID DISTANCE			
	, ,				
xxx	CULVERT				
	FENCE SILT FENCE				
-0-0-0-0-0-0-0-0-0-0-0-0-	GUARD RAIL				
sss	APPROXIMATE L				
	EXISTING SEWER APPROXIMATE L				
	EXISTING WATER				
	APPROXIMATE L EXISTING GAS L				
		LINES			
DLDLDL	DITCH LINES				
	APPROXIMATE L	LOCATION OF			
OTV OTV		CABLE TV LINE			
CTV	APPROXIMATE L OVERHEAD CAB				
	APPROXIMATE L	LOCATION OF			
	UNDERGROUND	FIBER OPTIC CABLE LINE			
EEE	APPROXIMATE L				
	UNDERGROUND APPROXIMATE L				
EE	OVERHEAD ELEC				
	APPROXIMATE L				
	UNDERGROUND	TELEPHONE LINES			
ттттт	APPROXIMATE L				
ROWROW_	OVERHEAD TELE RIGHT-OF-WAY				
ROW - ROW -	TREELINE				
	SHRUBLINE PROPERTY LINE	NOT SURVEYED			
		. NOT SURVETED			
,00000000000000000000000000000000000000	ROCKLINE				

		NOCKLINE	
		STREAM LINE	
		CENTERLINE	
		CENTERLINE '	VARIANT
		SWAMPLINE/V	WETLANDS
	UUU	APPROXIMATE OVERHEAD U	E LOCATION OF TILITY LINE
IPS	IRON PIN SET	СМИ	CONCRETE MASONRY UNIT
RBF	REBAR FOUND	CPP	CORRUGATED PLASTIC PIPE
OTIPF	OPEN TOP IRON PIN FOUND	DIP	DUCTILE IRON PIPE
CTIPF	CRIMPED TOP IRON PIN FOUND	E&T	ELECTRIC & TELEPHONE
CMU	CONCRETE MASONRY UNIT	FOC	FIBER OPTIC CABLE
R/W	RIGHT OF WAY	GIP	GALVANIZED IRON PIPE
Ę.	CENTERLINE	0/H	OVERHEAD
C	CURVE (SEE CURVE TABLE)	RCP	REINFORCED CONCRETE PIPE
POB	POINT OF BEGINNING	U/G	UNDERGROUND
CP	CALCULATED POINT	VCP	VITRIFIED CLAY PIPE
PB	PLAT BOOK	PVC	POLYVINYL CHLORIDE PIPE
		FFE	FINISHED FLOOR ELEVATION
DB	DEED BOOK	PG	PAGE
L	LINE (SEE LINE TABLE)	REF DOT	REFERENCE
BLDG	BUILDING	NGS	DEPARTMENT OF TRANSPORTATIONAL GEODETIC SYRVEY

NATIONAL GEODETIC SYRVEY NORTH CAROLINA STATE PLANE MTR BOX METER BOX

FUNDING #

55 Broad Street Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com



FINAL DRAWING FOR REVIEW PURPOSES ONLY NOT RELEASED CONSTRUCTION

JOB SITE THE FOLLOWING:

DISTURBANCE OPERATION.

AS NOTED ON THE PLANS.

PHASE OF GRADING.

IS STABILIZED.

APPROVAL

c. A COPY OF THE APPROVED PLANS.

MAINTENANCE OF THE SITE EROSION CONTROL.

4.FLAG WORK LIMITS BEFORE CONSTRUCTION ACTIVITY BEGINS.

6.PRE-DISTURBANCE NOTIFICATION TO NCDEQ INSPECTOR.

11. UPON APPROVAL, BEGIN LAND DISTURBANCE OPERATIONS.

DATE BY **DESCRIPTION**

WASTEWATER TREATMENT PLANT UPGRADES TOWN OF HOT SPRINGS

OFFICE MANAGER M. CATHEY PROJECT MANAGER MADISON COUNTY - NORTH CAROLINA

K. WEBB

NOT TO SCALE GENERAL NOTES AND LEGENDS DESIGNER W. HALE

SEPTEMBER 2025

23.00328

CAST IRON PIPE

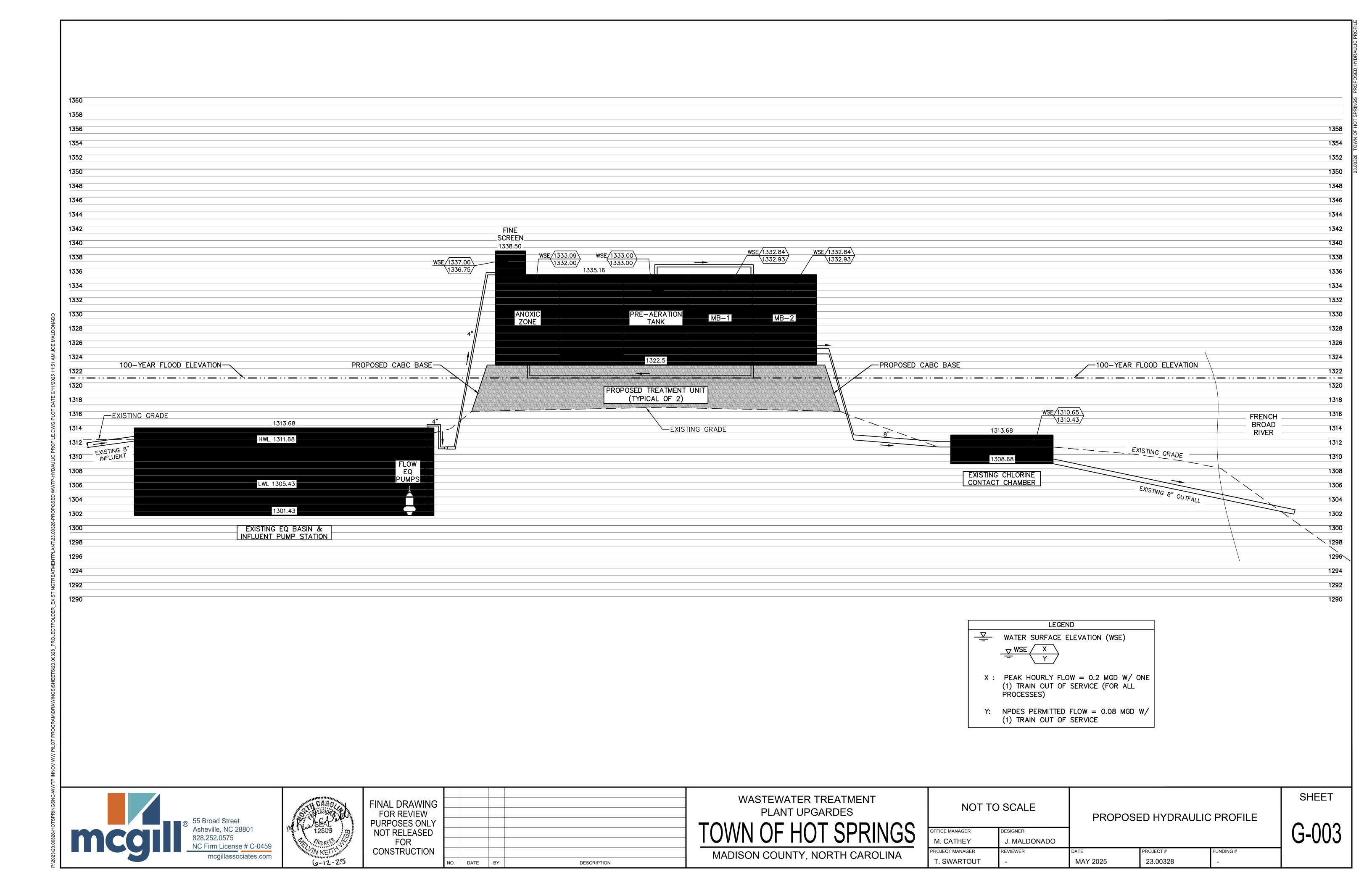
CONC CONCRETE

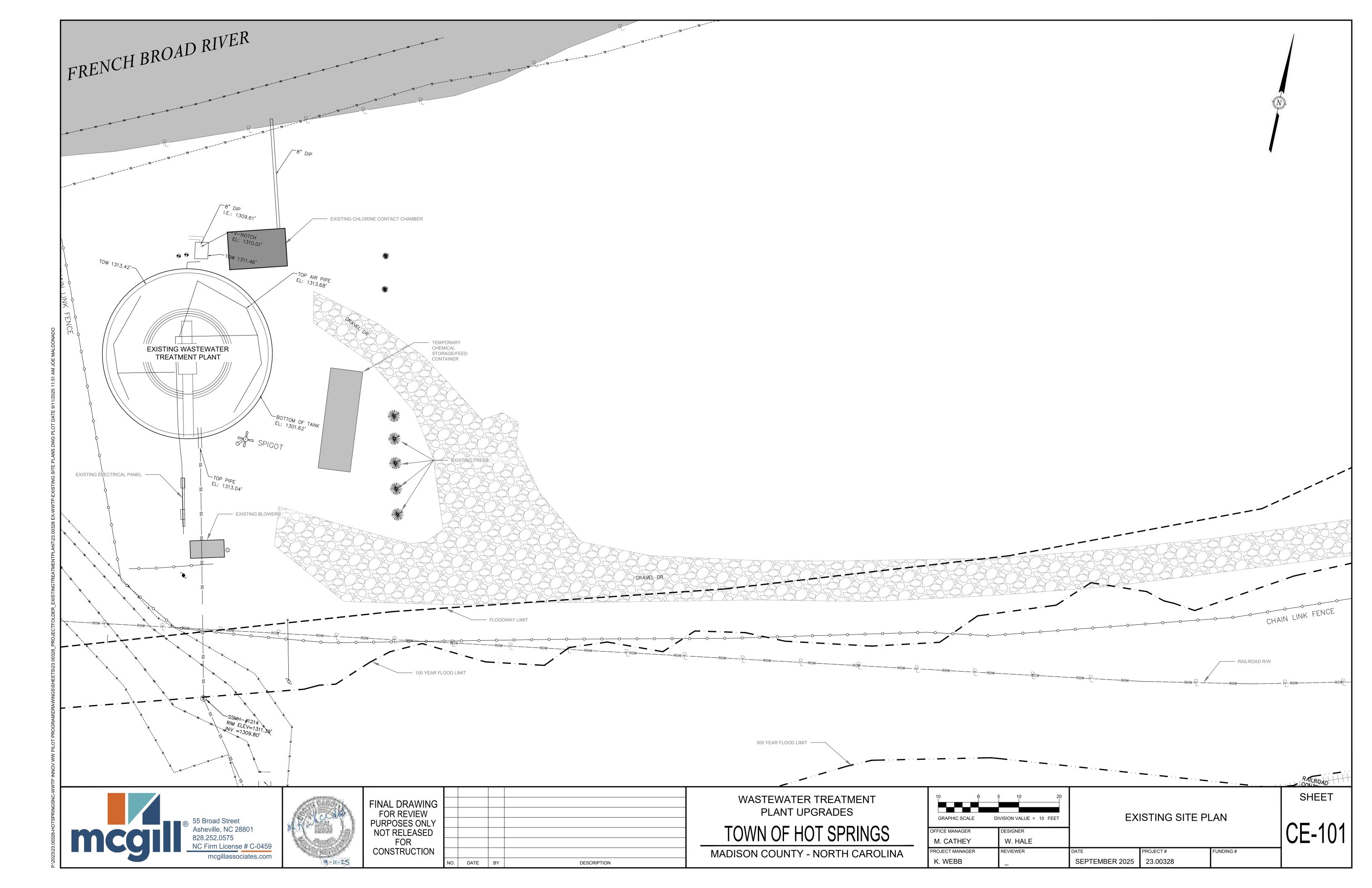
EVIEWER

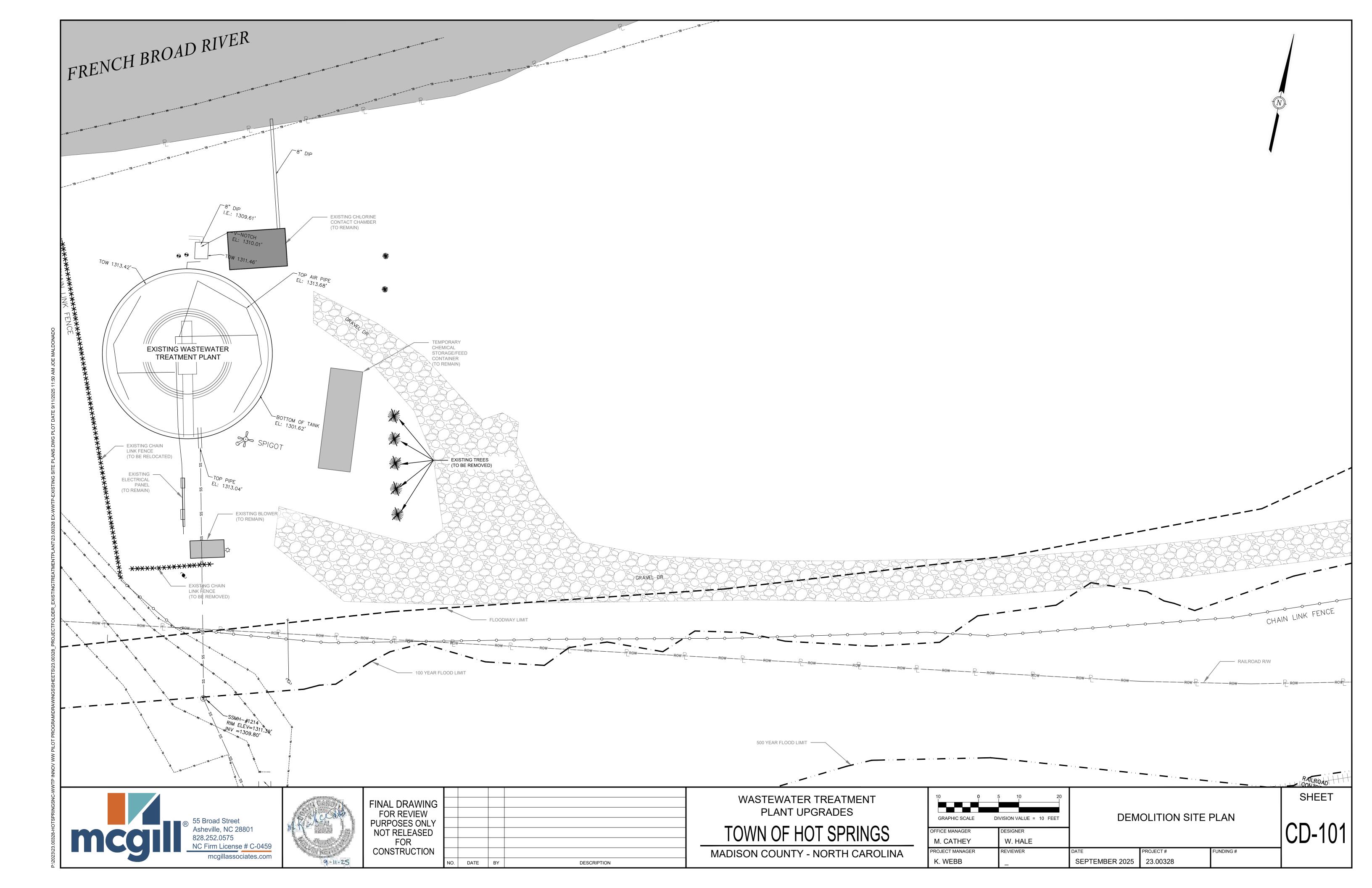
CORRUGATED METAL PIPE

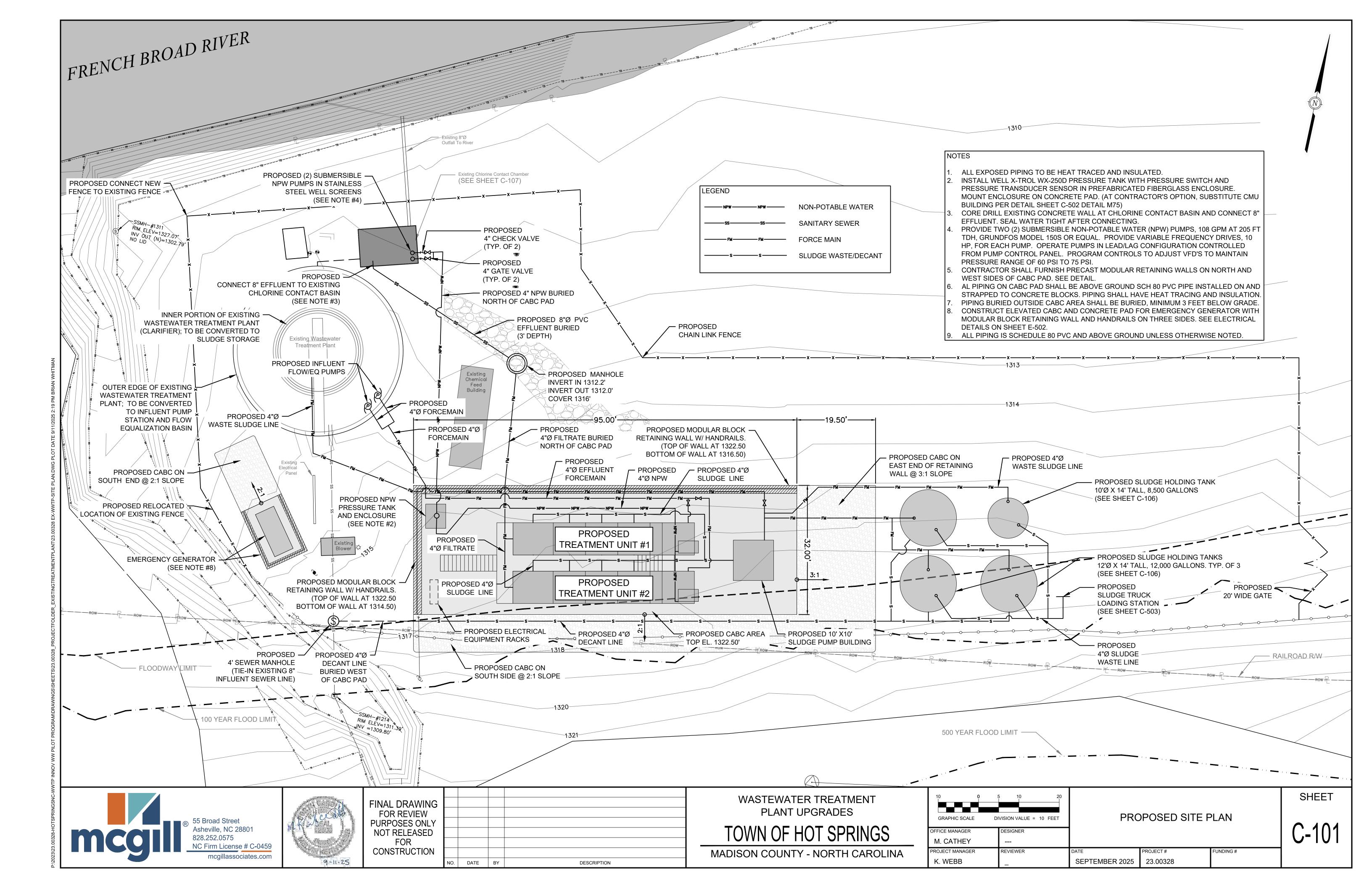
SHEET

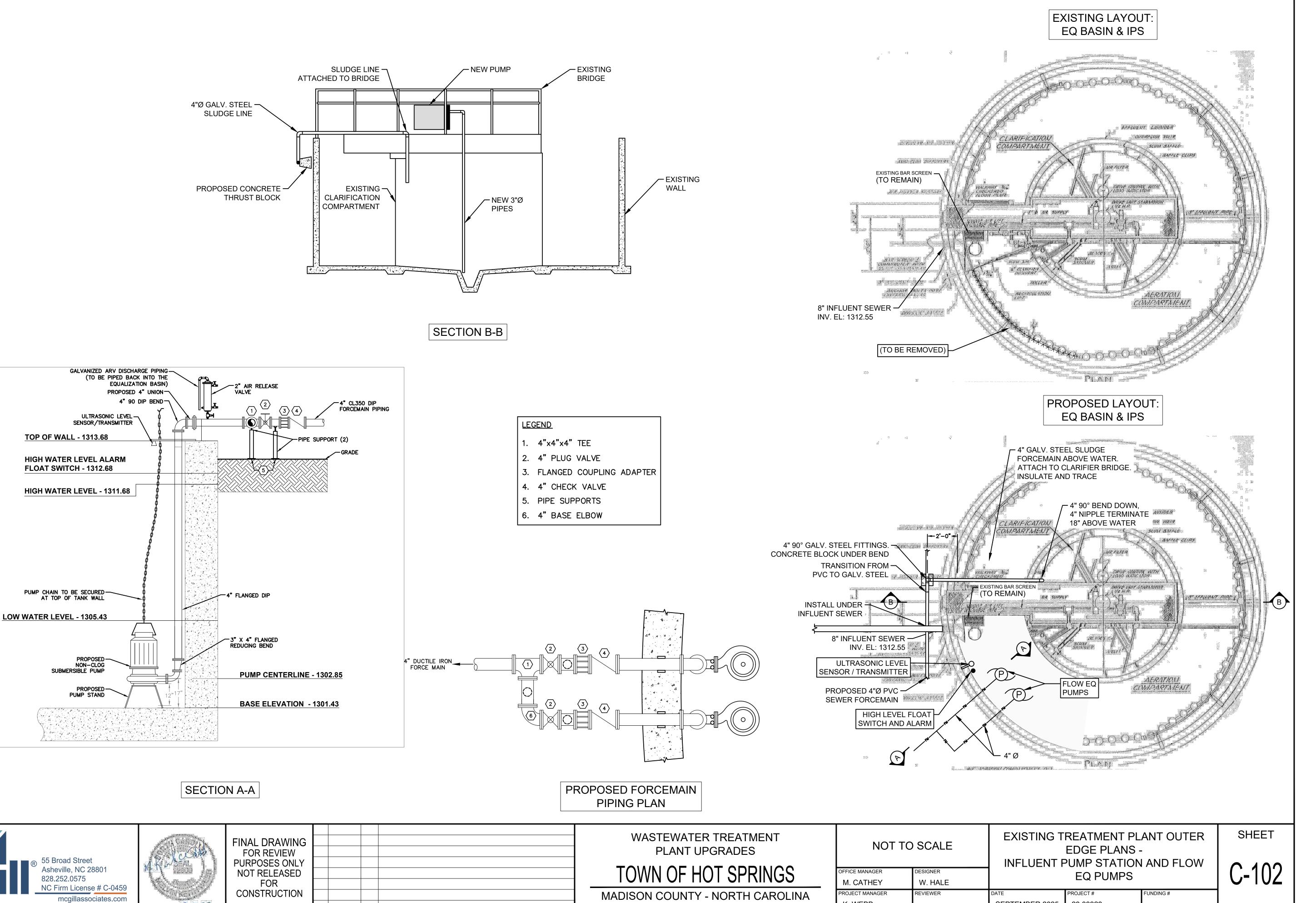
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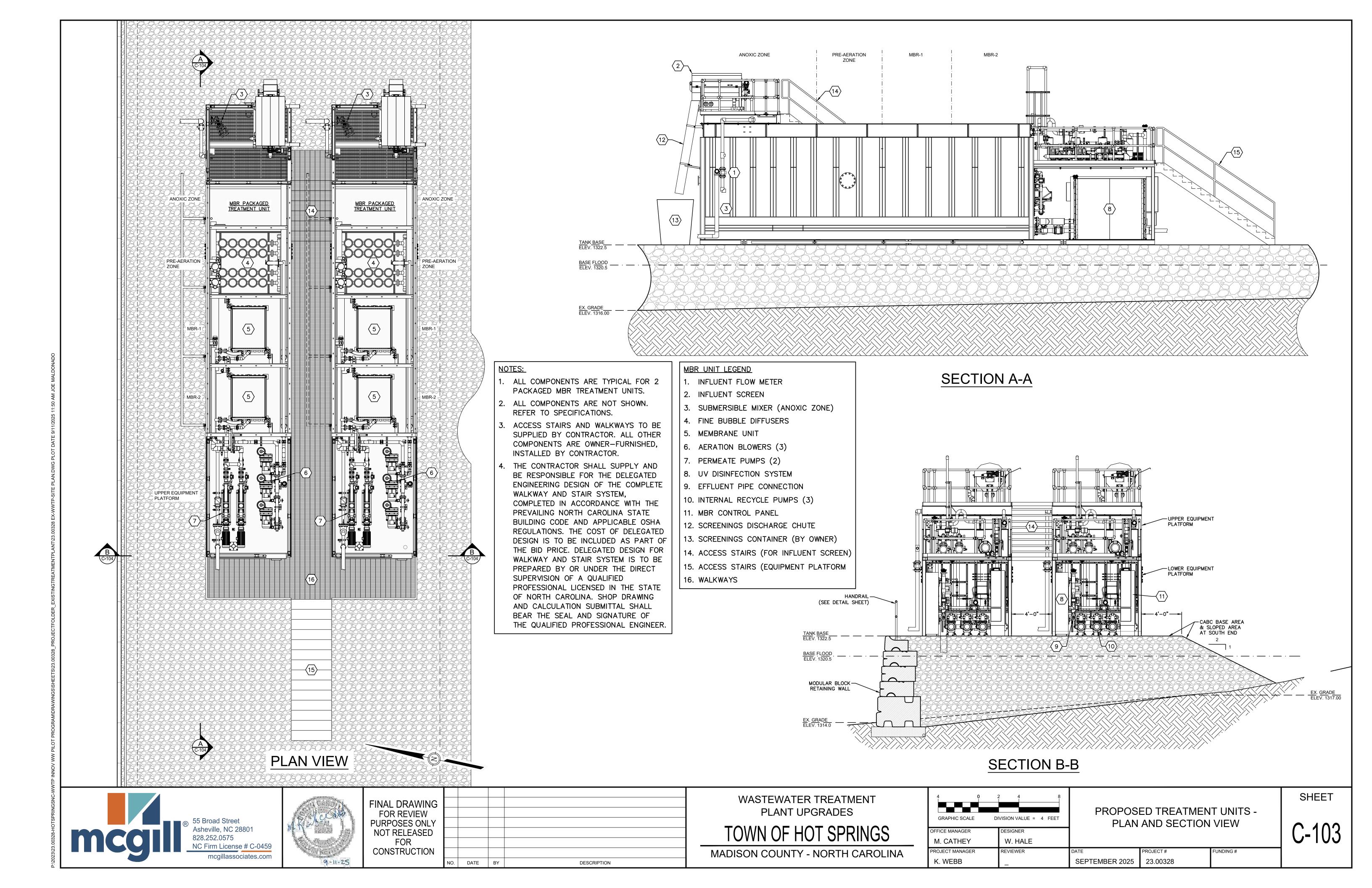
DATE BY

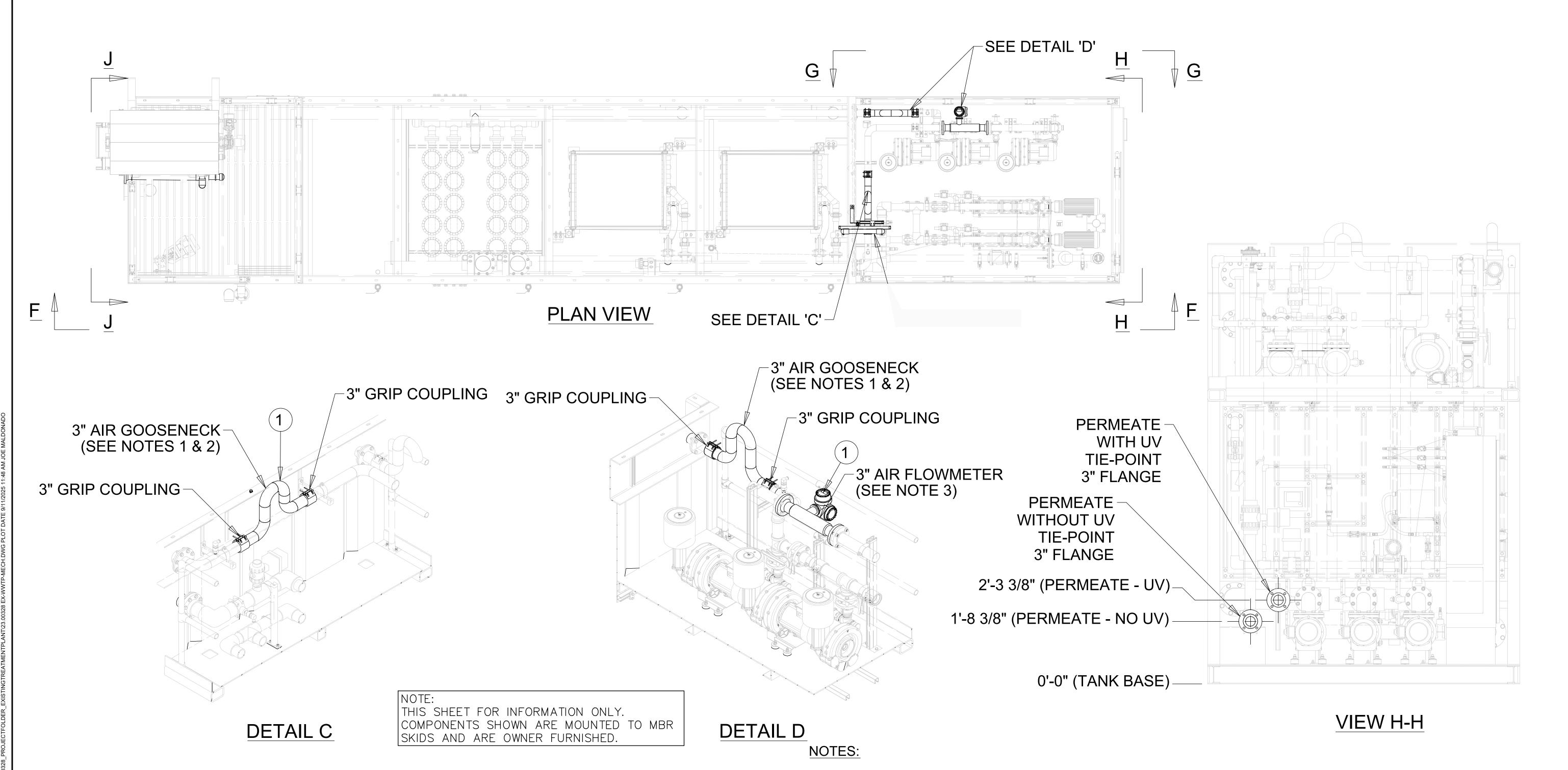
DESCRIPTION

SEPTEMBER 2025

K. WEBB

23.00328

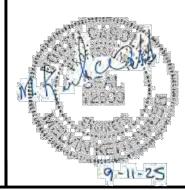




NOTES:

- 1. SECURE 3" AIR GOOSNECK SPOOLS TO EXISTING PIPING USING 3" GRIP COUPLINGS
- 2. ENSURE THAT 3" AIR GOOSENECK EXTEND ABOVE THE TOP OF TANK TO PREVENT ANY POTENTIAL BACKFLOW FROM ENTERING/REACHING INSTRUMENTS OR BLOWERS.
- 3. DISCONNECT FLANGES OF THE 3" AIR FLOWMETER AND ROTATE SO THAT THE DISPLAY IS ON TOP AS SHOWN.
- 4. SCREEN DECK ENTRY CAN BE ON LEFT OR RIGHT SIDE OF TANK BASED ON SITE SPECIFIC NEEDS.
- 1. THE FLANGED TIE-POINT SHOWN WILL BE USED FOR CIP DILUTION WATER FOR SYSTEMS UTILIZING AN AUTOMATED CIP. FOR SYSTEMS WITH MANUAL CIP, THE CONNECTION WILL BE USED FOR A PRE-MIXED CHEMICAL SOLUTION.
- 2. CIP WATER OR SOLUTION OPTIMAL FLOW IS 60 gpm @ 10 psig. NOT TO GO BELOW 30 gpm.
- 3. WASH WATER MINIMUM FLOW IS 16 gpm @ 70 psig.
- 4. SUPPLEMENTAL TANK RAS TIE-POINTS CAN BE LOCATED ON EITHER SIDE OF THE TANK, EXACTLY OPPOSITE OF ONE ANOTHER. FOR SYSTEMS WITH A SUPPLEMENTAL TANK, ENSURE THAT THE RAS CONNECTION IS FACING THE SUPPLEMENTAL TANK. FOR SYSTEMS WITHOUT A SUPPLEMENTAL TANK, THE PIPE WILL ALREADY BE CONNECTED TO THE TANK WALL.





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FOR
CONSTRUCTION
NO. DATE BY

DESCRIPTION

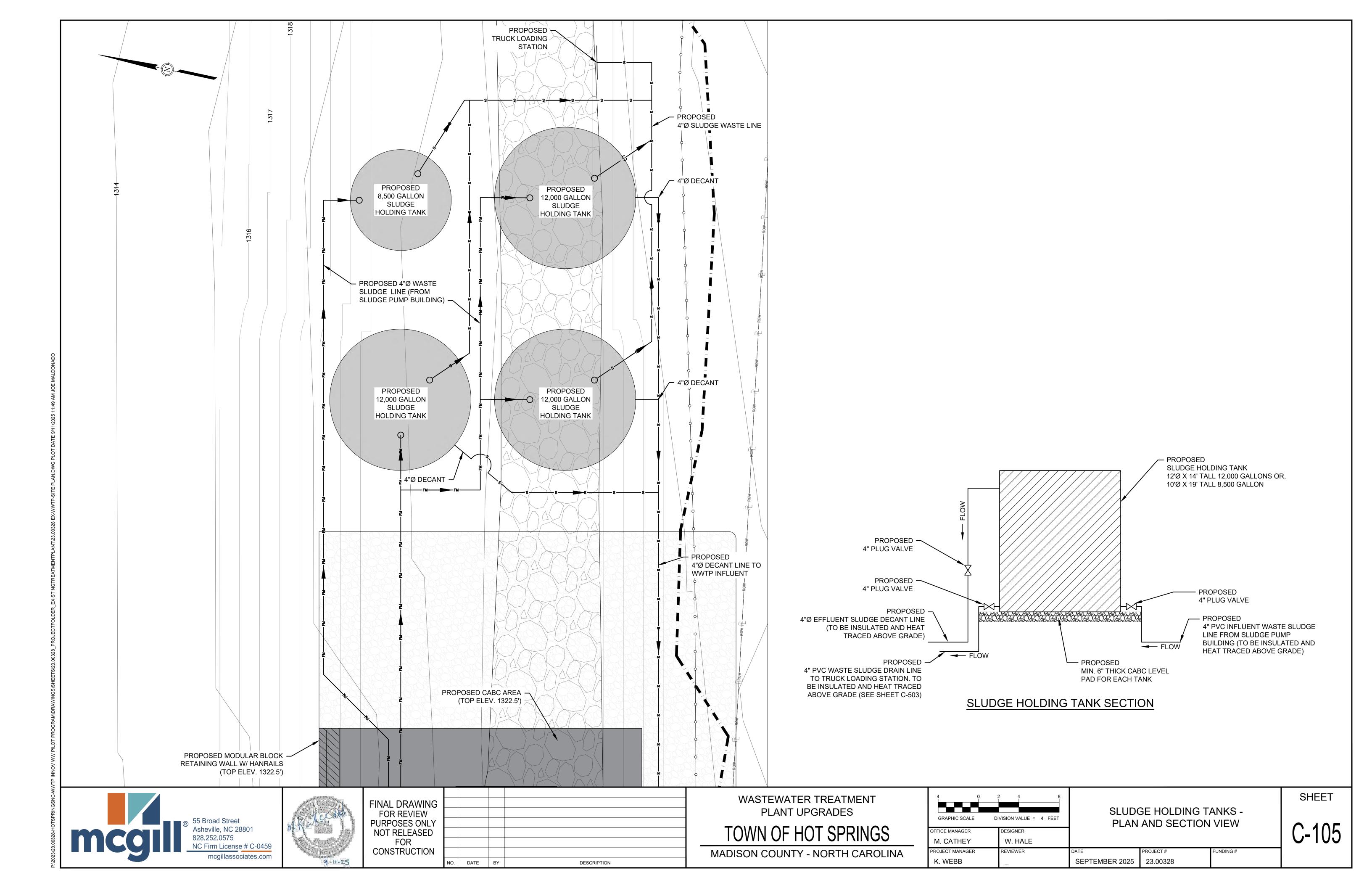
WASTEWATER TREATMENT
PLANT UPGRADES

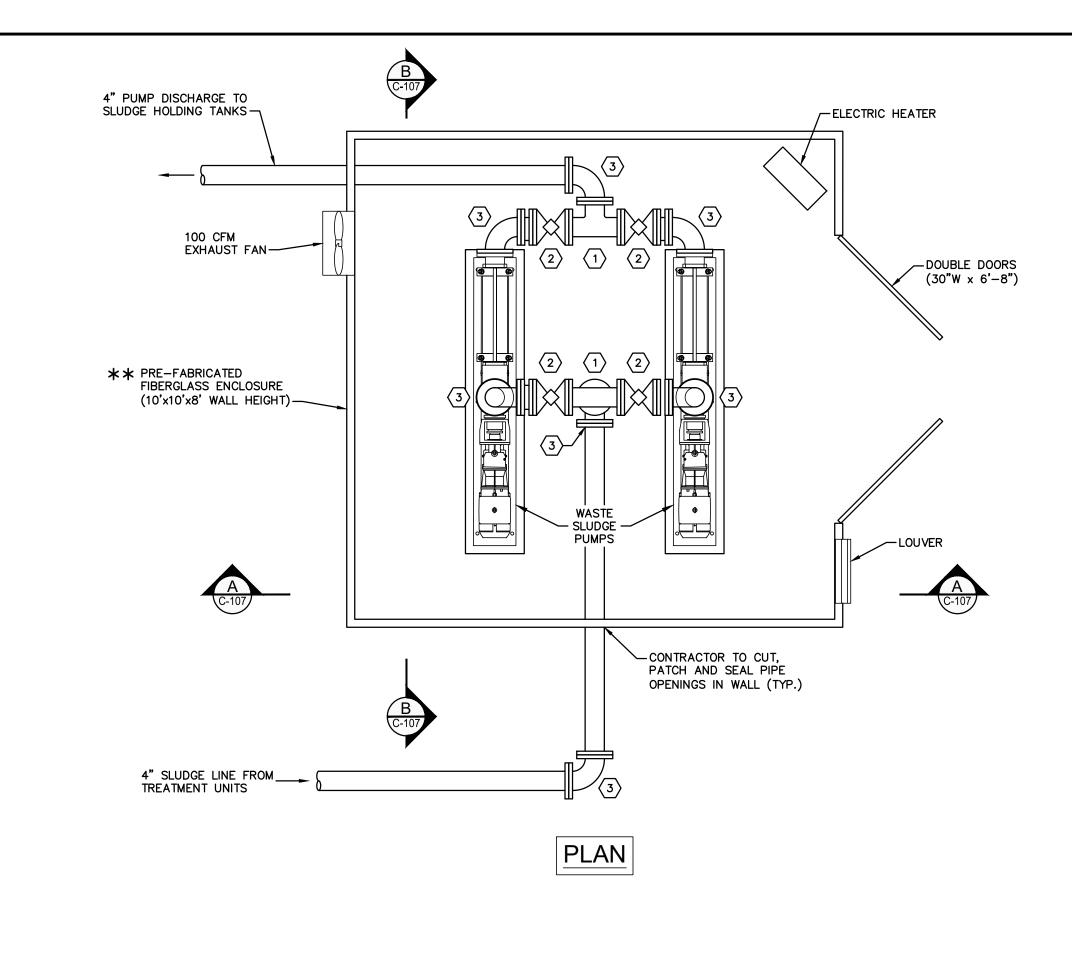
TOWN OF HOT SPRINGS

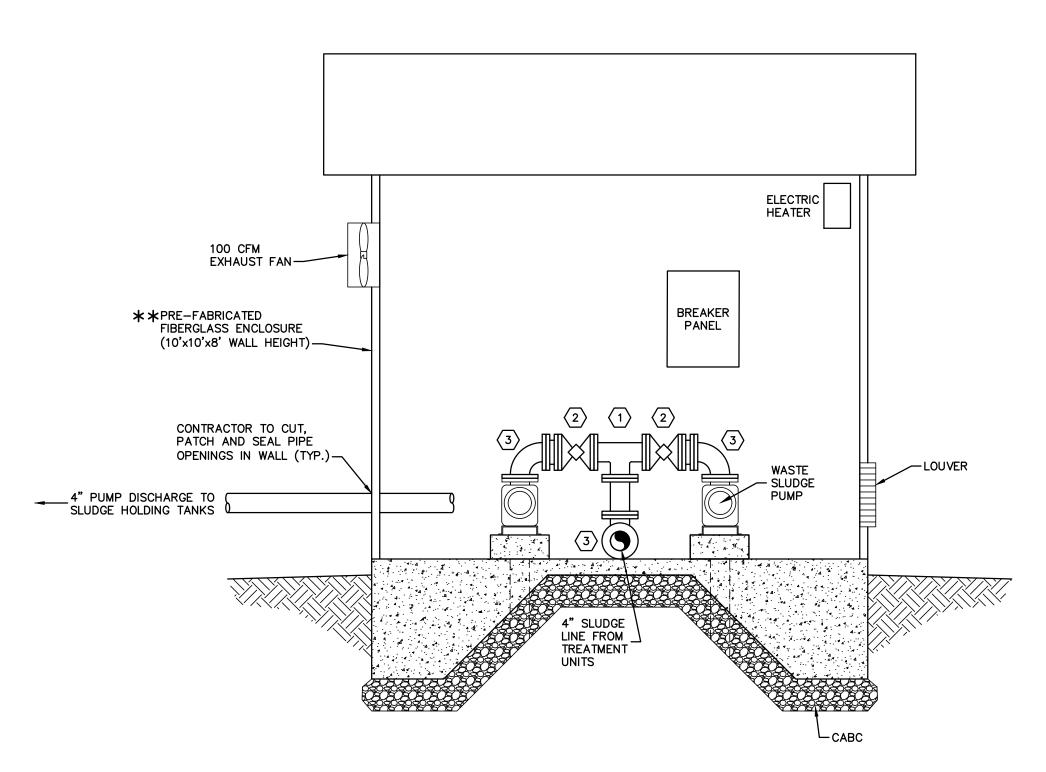
MADISON COUNTY - NORTH CAROLINA

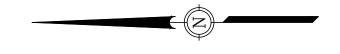
NOT TO SCALE		В	LOWER DETAI	LS
OFFICE MANAGER	DESIGNER	1		
M. CATHEY	W. HALE			
PROJECT MANAGER	REVIEWER	DATE	PROJECT#	F
K. WEBB	_	SEPTEMBER 2025	23.00328	

C-104







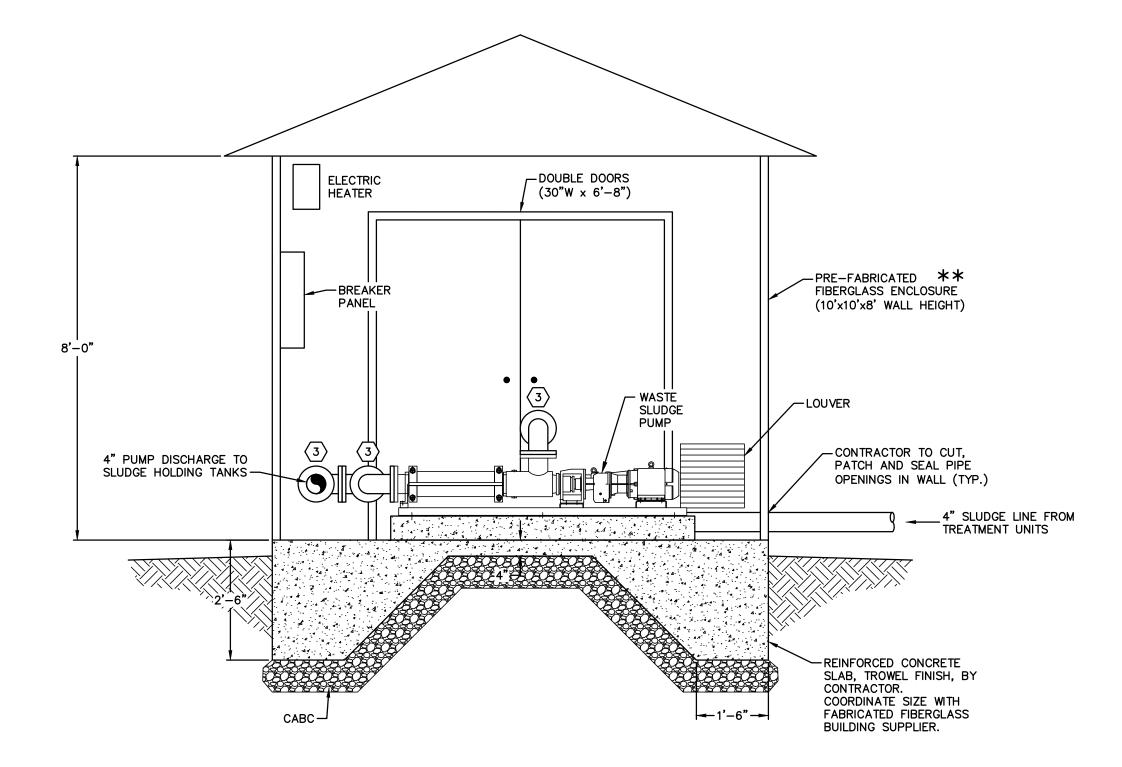


NOTE:

* WASTE SLUDGE PUMP PROVIDED BY OWNER. CONTRACTOR TO INSTALL ** AT CONTRACTOR'S OPTION, CONTRACTOR MAY CONSTRUCT CMU BUILDING INSTEAD OF PREFAB FIBERGLASS PER DETAIL ON SHEET C-502, TYPICAL BUILDING SECTION.

KEYNOTE LEGEND

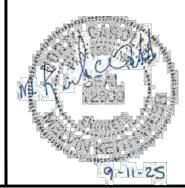
- 1. 4"x4"x4" FL. TEE
- 2. 4" PLUG VALVE
- 3. 4" FL. 90° BEND



SECTION A-A

SECTION B-B





Constitution (MANUS)	FINAL DRAWING FOR REVIEW PURPOSES ONLY NOT RELEASED FOR CONSTRUCTION
	CONSTRUCTION

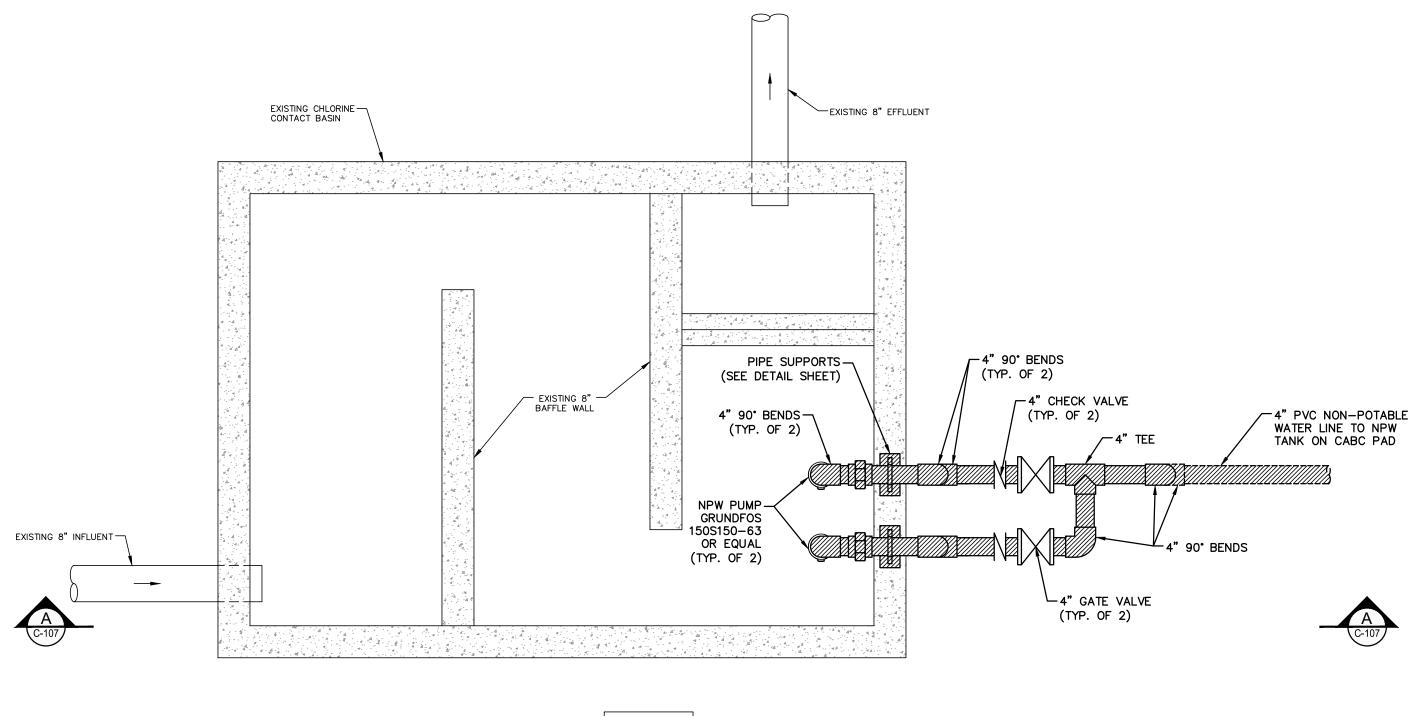
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	NO.	DATE	BY	DESCRIPTION
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WASTEWATER TREATMENT PLANT UPGRADES

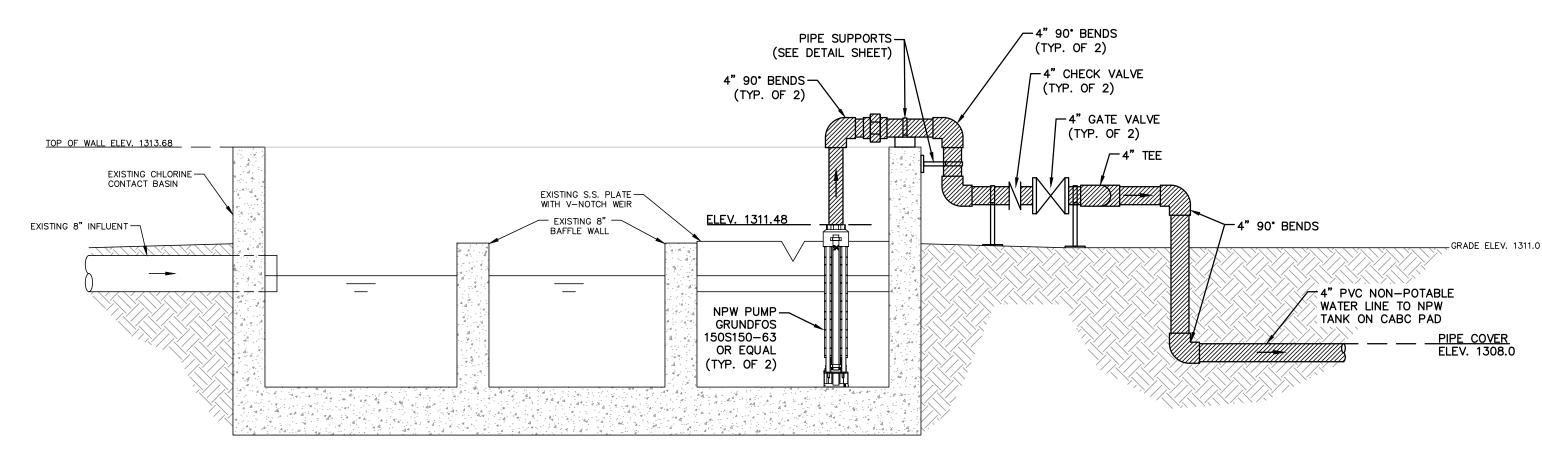
TOWN OF HOT SPRINGS MADISON COUNTY - NORTH CAROLINA

GRAPHIC SCALE D	IVISION VALUE = 2 FEET		GE PUM AND SE(
OFFICE MANAGER	DESIGNER		
M. CATHEY	W. HALE		
PROJECT MANAGER	REVIEWER	DATE	PROJECT#
K. WEBB	_	SEPTEMBER 2025	23.00328

SLUDGE PUMP BUILDING PLAN AND SECTION VIEWS



PLAN



SECTION A-A

- NPW = NON-POTABLE WATER.
- ALL EXPOSED PIPING TO BE HEAT TRACED AND INSULATED. ALL NPW PIPES TO BE PVC SCHEDULE 80 WITH GLUE JOINTS.
- ALL VALVES ARE TO BE DUCTILE IRON WITH FLANGED CONNECTIONS WHERE
- REQUIRED TO SCHEDULE 80 PVC GLUE JOINTS.
- PROVIDE TWO (2) SUBMERSIBLE NON-POTABLE WATER (NPW) PUMPS, 108 GPM AT 205 FT TDH, GRUNDFOS MODEL 150S OR EQUAL. PROVIDE VARIABLE FREQUENCY DRIVES, 10 HP, FOR EACH PUMP. OPERATE PUMPS IN LEAD/LAG CONFIGURATION CONTROLLED FROM PUMP CONTROL PANEL. PROGRAM CONTROLS TO ADJUST VFD'S TO MAINTAIN PRESSURE RANGE OF 60 PSI TO 75 PSI.

K. WEBB





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NO. DATE BY DESCRIPTION WASTEWATER TREATMENT PLANT UPGRADES

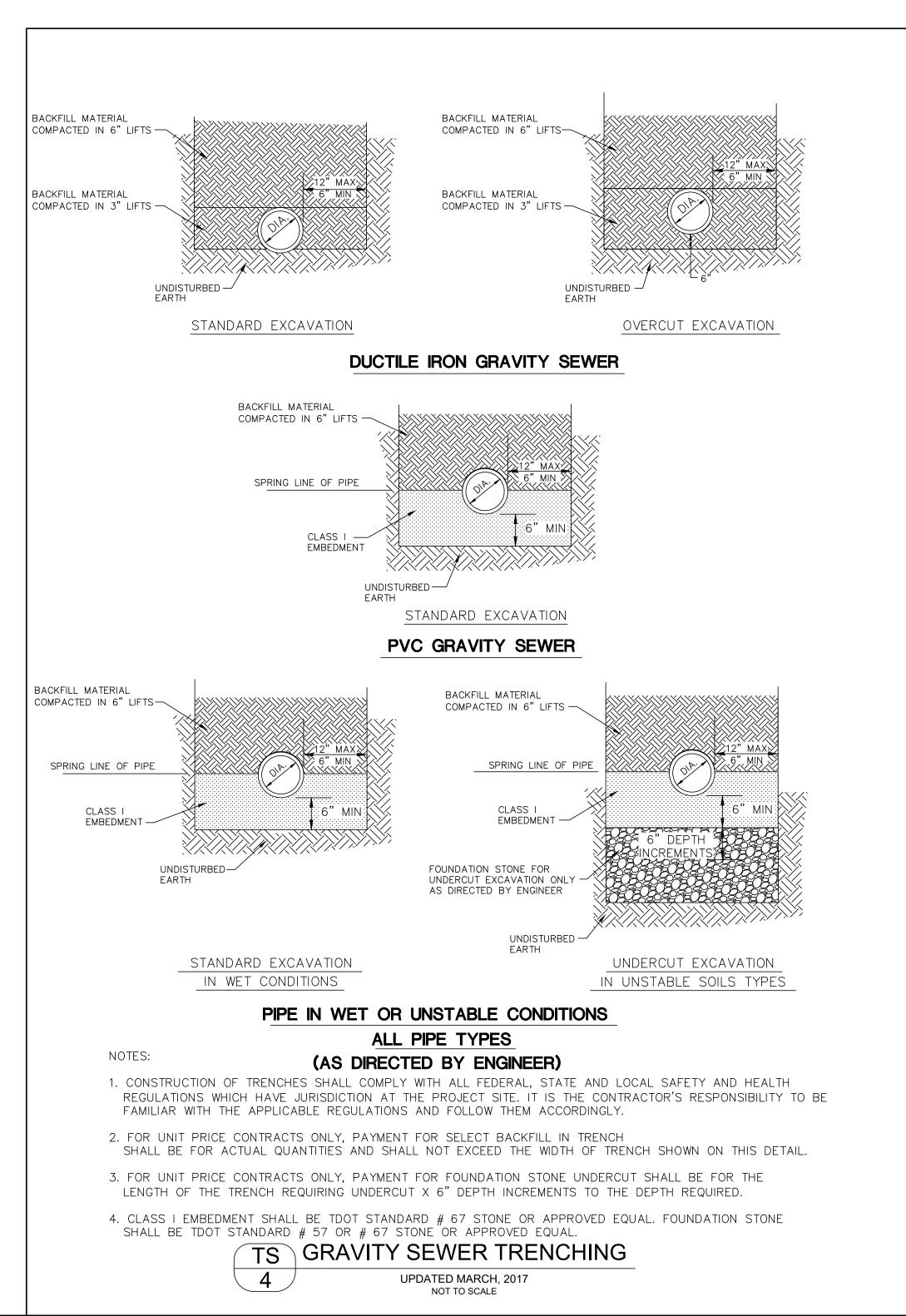
TOWN OF HOT SPRINGS MADISON COUNTY - NORTH CAROLINA

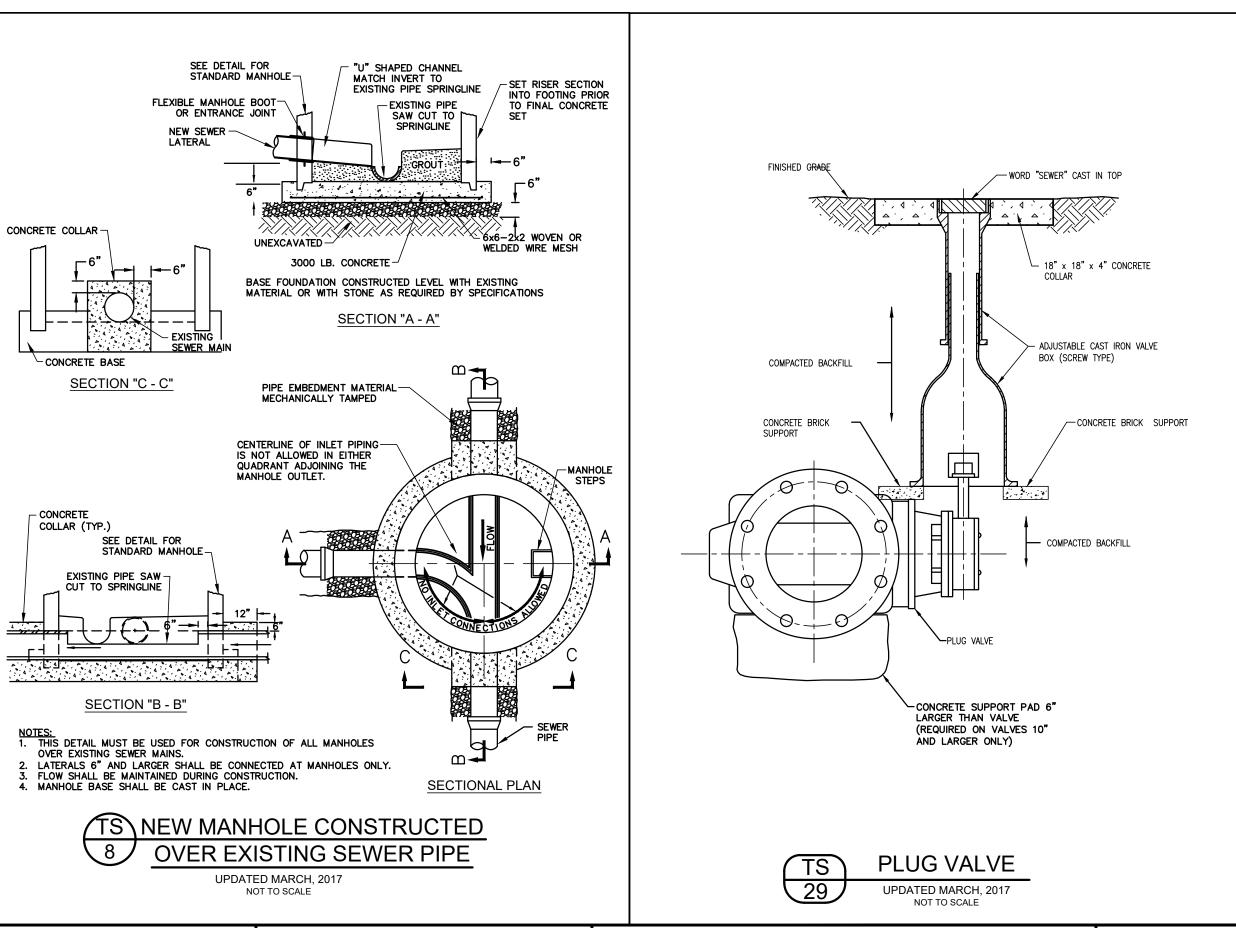
	4	0 2	2 4		8	
	GRAPHIC SCALE	DI	VISION VA	ALUE = 4	FEET	
	OFFICE MANAGER		DESIGNE	R		
_	M. CATHEY		W. H	ALE		
	PROJECT MANAGER		REVIEW	ĒR		DATE

NON-POTABLE WATER PUMP PLAN AND SECTION

SEPTEMBER 2025 23.00328

C-107









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DATE BY DESCRIPTION

WASTEWATER TREATMENT PLANT UPGRADES

TOWN OF HOT SPRINGS MADISON COUNTY - NORTH CAROLINA

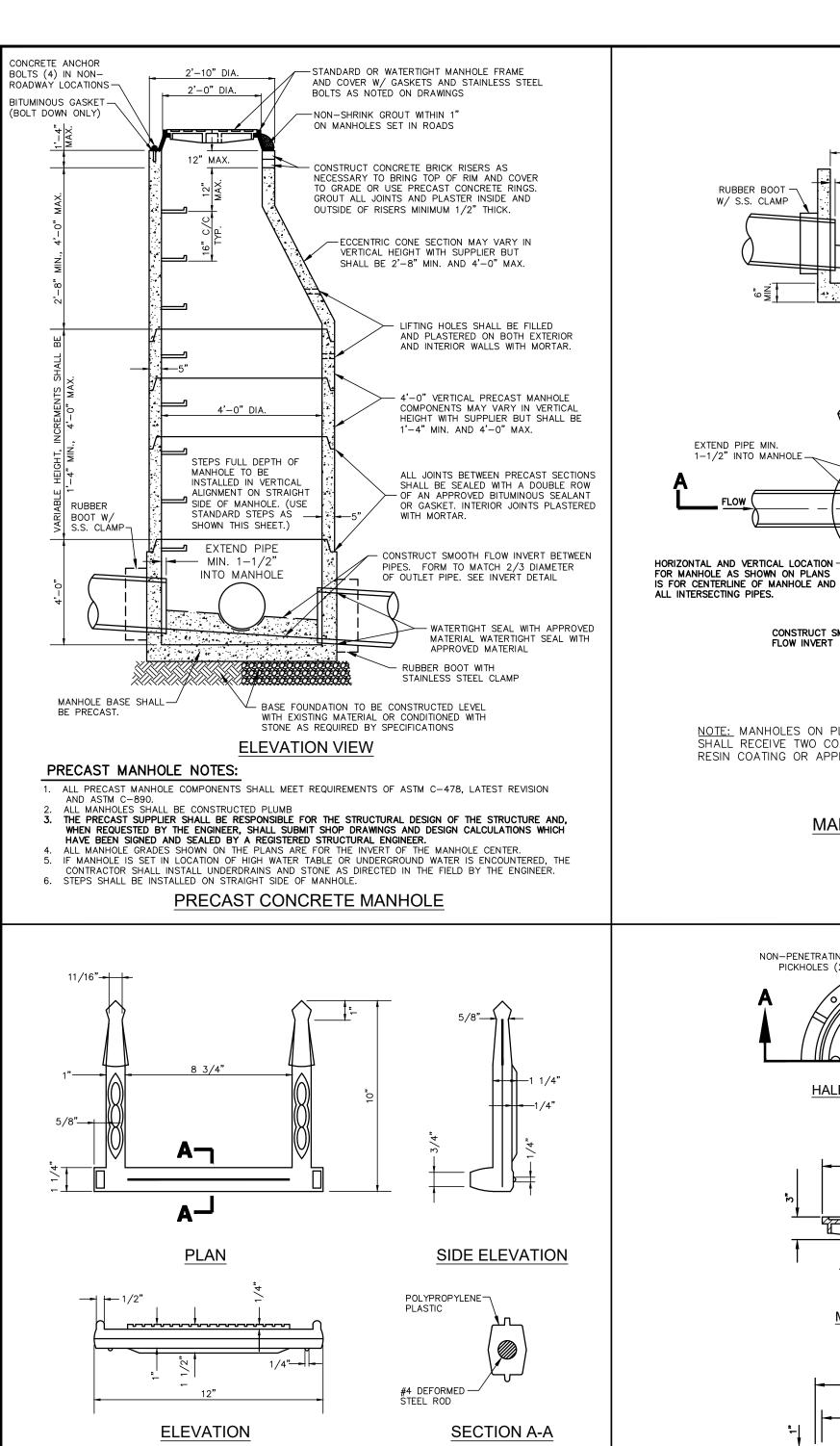
NOT TO SCALE			MISCE	LLANEOUS DE	ETAILS
OFFICE MANAGER	DESIGNER				
M. CATHEY	W. HALE				
PROJECT MANAGER	REVIEWER	DATE		PROJECT#	FUNDING#

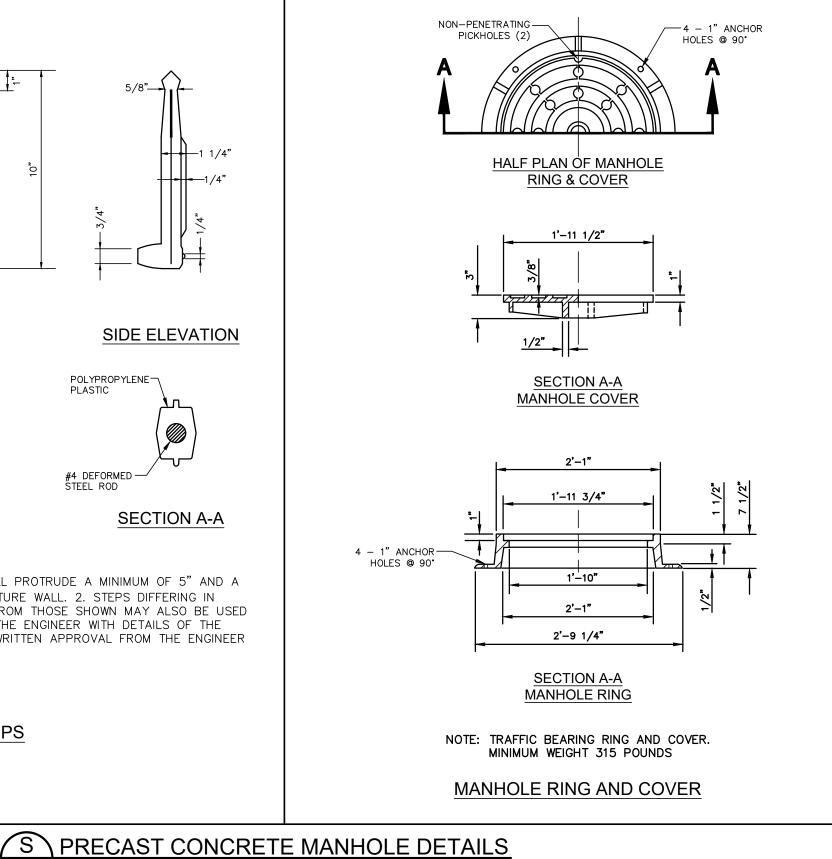
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SEPTEMBER 2025 23.00328

SHEET

C-501





EXTEND PIPE

INTO MANHOLE

SECTION A-A

PLAN

NOTE: MANHOLES ON PLANS NOTED AS HIGH VELOCITY MANHOLES

SHALL RECEIVE TWO COATS OF SIKAGARD 62, HIGH-BUILD, EPOXY

MANHOLE INVERTS

RESIN COATING OR APPROVED EQUAL ON INVERT CHANNEL.

RUBBER BOOT

W/ S.S. CLAMP

ALL PIPES SET SO THAT CENTERLINE

PIPE IS RADIAL TO MANHOLE

' MIN. 1−1/2'

SMOOTH FLOW -

INVERT 2/3 PIPE DIAMETER

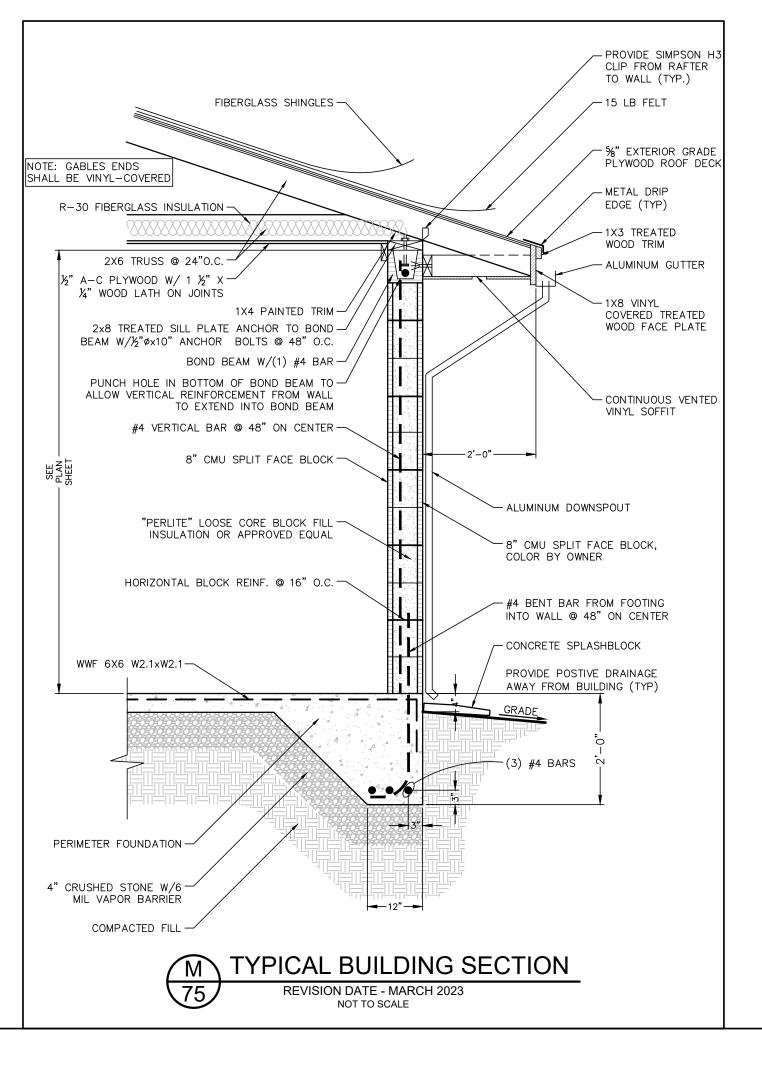
W/ S.S. CLAMP

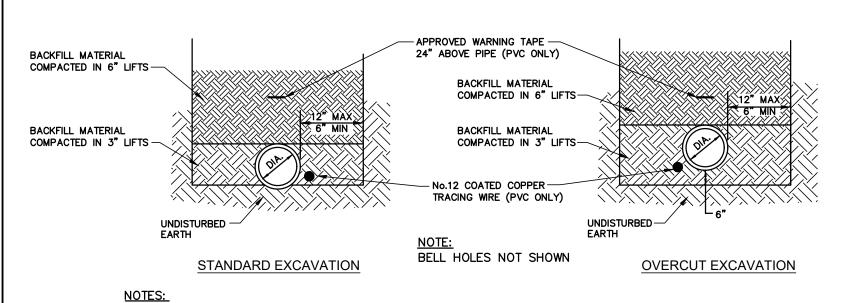
EXTEND PIPE MIN. 1-1/2" INTO MANHOLE -

HORIZONTAL AND VERTICAL LOCATION

CONSTRUCT SMOOTH-

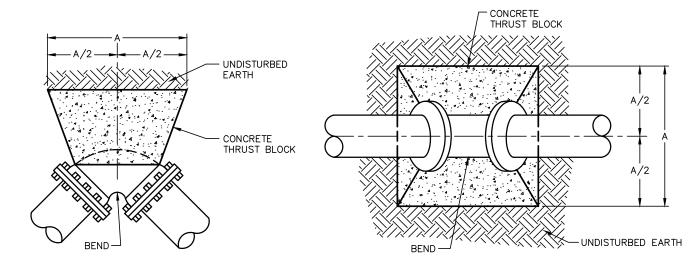
ALL INTERSECTING PIPES.



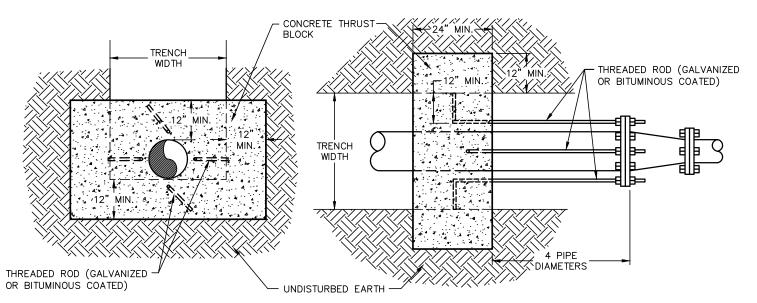


1. CONSTRUCTION OF TRENCHES SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS WHICH HAVE JURISDICTION AT THE PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE APPLICABLE REGULATIONS AND FOLLOW THEM ACCORDINGLY. 2. PAYMENT FOR ROCK EXCAVATION AND SELECT BACKFILL IN TRENCH SHALL BE FOR ACTUAL QUANTITIES AND SHALL NOT EXCEED THE WIDTH OF TRENCH SHOWN ON THIS DETAIL.

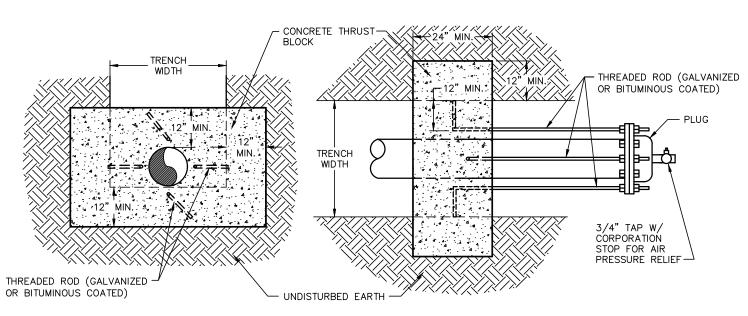
> S SEWER FORCE MAIN TRENCHING UPDATED MARCH, 2017 NOT TO SCALE



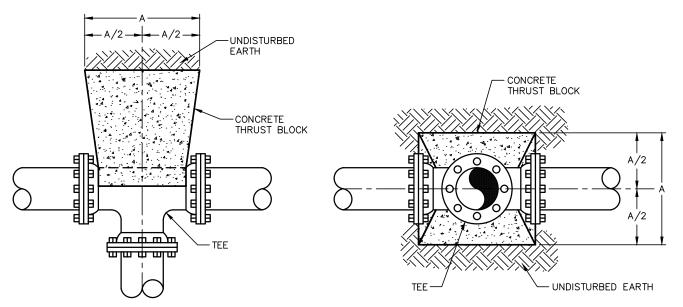
TYPICAL THRUST BLOCKS FOR BENDS



TYPICAL THRUST BLOCK FOR REDUCERS



TYPICAL THRUST BLOCK FOR PLUGS



TYPICAL THRUST BLOCKS FOR TEES

NOTES:

1. FITTING JOINTS SHALL NOT BE POURED IN CONCRETE OR HAVE CONCRETE SPILLED ON THE BOLTS OR NUTS.

THE FITTING SHALL BE WRAPPED IN A LAYER OF POLYETHYLENE PLASTIC PRIOR TO POURING THE THRUST BLOCK. 2. ROD AND EYE BOLT DIAMETER SHALL BE A MINIMUM OF 3/4" AND SHALL MATCH THE SIZE OF THE BOLT 3. CONTRACTOR SHALL REPLACE FITTING BOLTS WITH THREADED ROD FOR 1/2 OF THE BOLTS SUPPLIED WITH EACH FITTING. RODS SHALL BE EQUALLY SPACED.

	TYPE					
SIZE	11-1/4° BEND	22-1/2° BEND	45° BEND	90° BEND	TEE	PLUG
2-6	12	12	12	16	16	14
8	12	12	16	22	22	18
10	12	14	20	28	28	22
12	12	18	24	32	32	28
14	14	20	28	38	38	32
16	16	22	32	42	42	36
18	18	26	36	48	48	40
20	20	28	40	52	52	44
24	24	34	46	64	64	54
30	30	42	58	78	78	66
36	36	50	70	94	94	80
42	40	58	80	108	108	92
48	46	66	90	124	124	104

THRUST BLOCK DIMENSION "A"





CONSTRUCTION NOTES 1. ALL STEPS SHALL PROTRUDE A MINIMUM OF 5" AND A MAXIMUM OF 7" FROM INSIDE FACE OF STRUCTURE WALL. 2. STEPS DIFFERING IN

DIMENSIONS, CONFIGURATION, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED

PROPOSED STEPS AND HAS RECEIVED PRIOR WRITTEN APPROVAL FROM THE ENGINEER

PROVIDED THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS OF THE

MANHOLE STEPS

FOR THE USE OF SAID STEPS.



UPDATED MARCH, 2017 NOT TO SCALE

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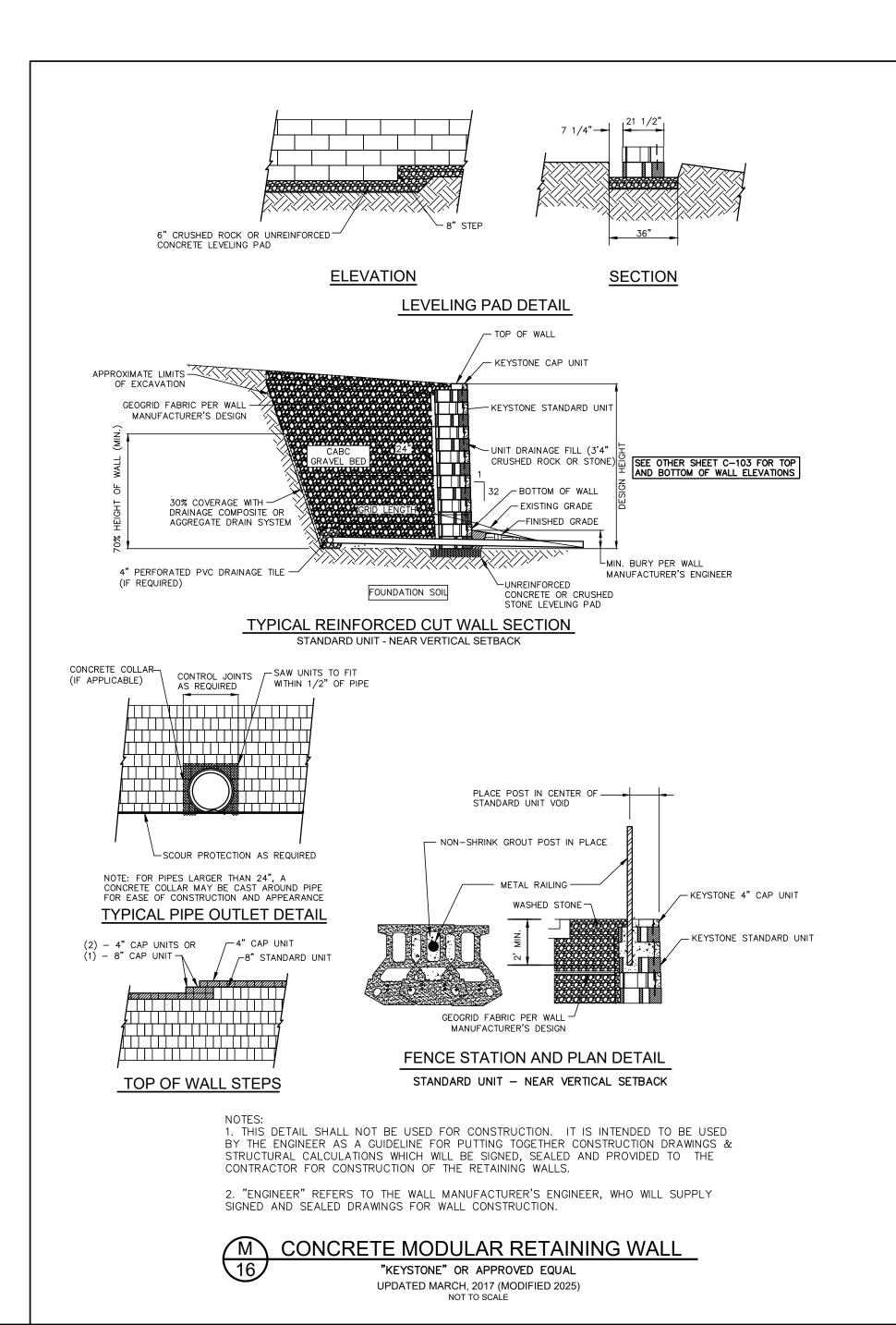
DATE BY **DESCRIPTION**

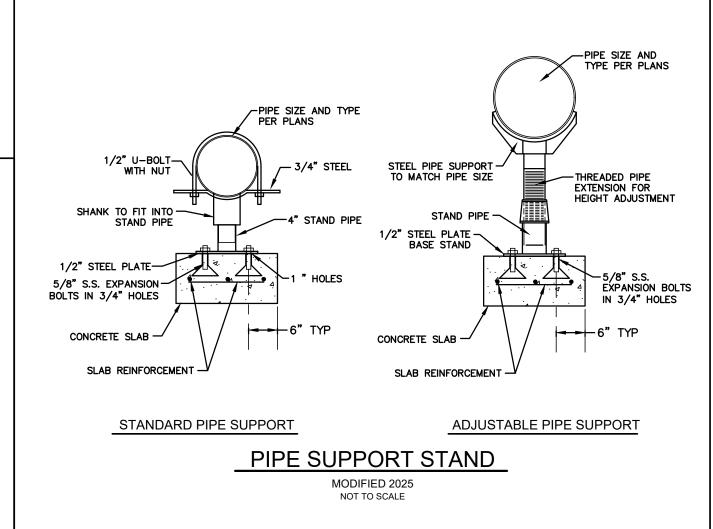
WASTEWATER TREATMENT PLANT UPGRADES

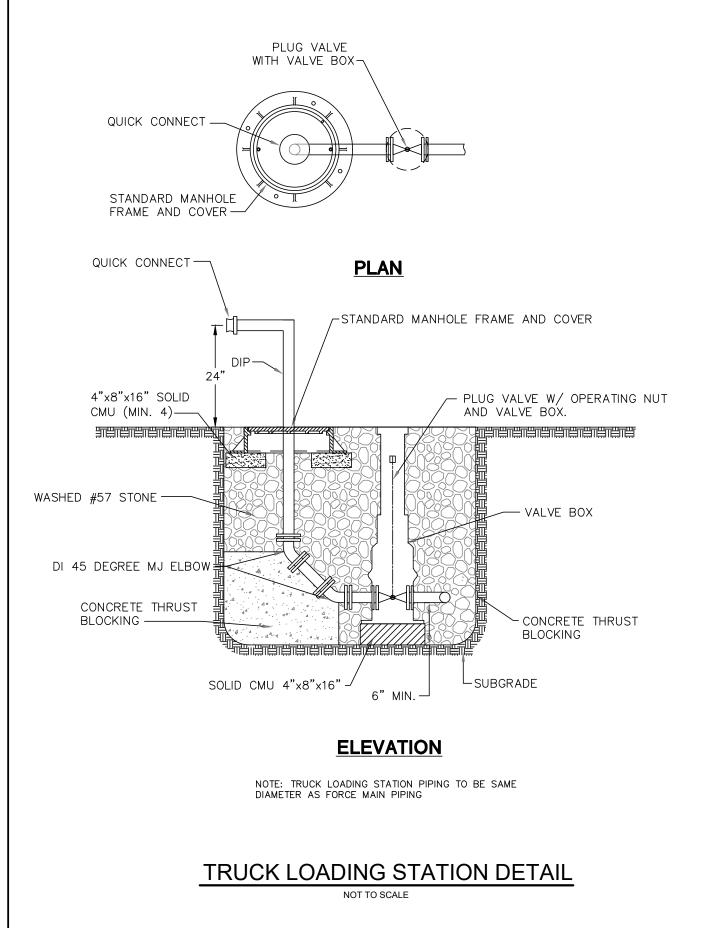
TOWN OF HOT SPRINGS

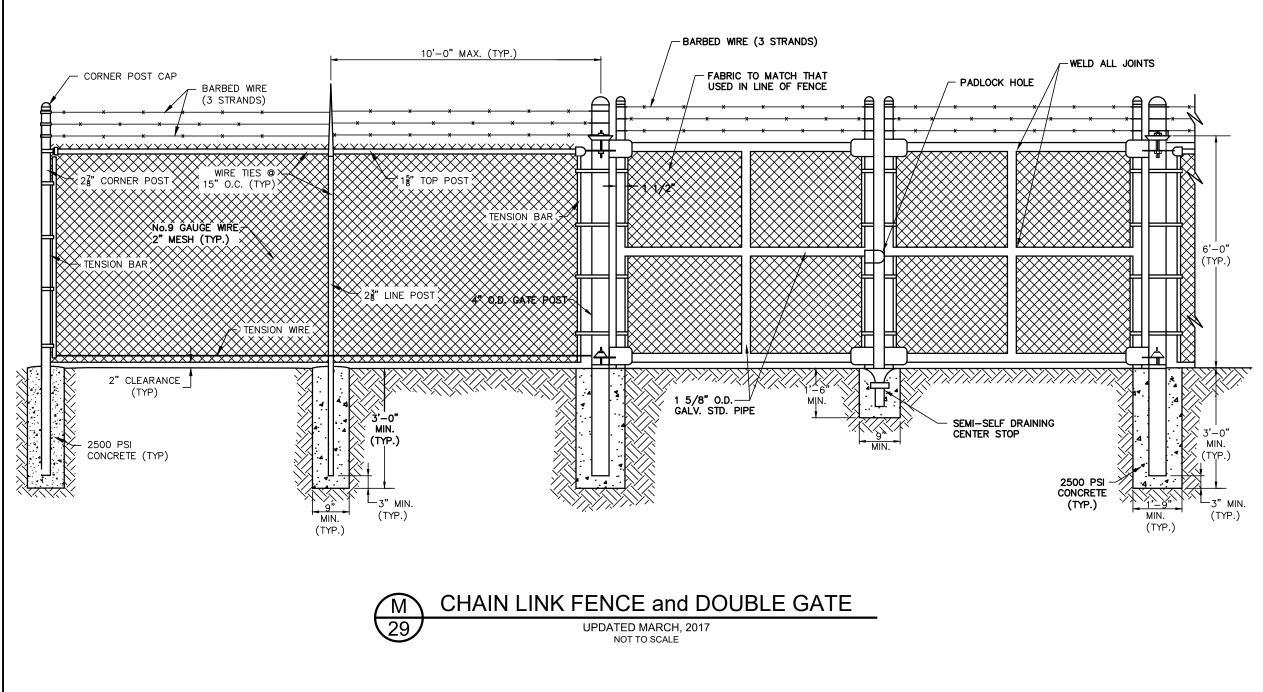
MADISON COUNTY - NORTH CAROLINA

NOT TO	SCALE	MISCELLANEOUS DETAILS		
OFFICE MANAGER	DESIGNER			
M. CATHEY	W. HALE			
PROJECT MANAGER	REVIEWER	DATE	PROJECT#	FUNDING #
K. WEBB	_	SEPTEMBER 2025	23.00328	

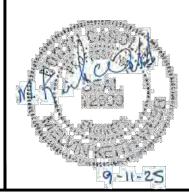












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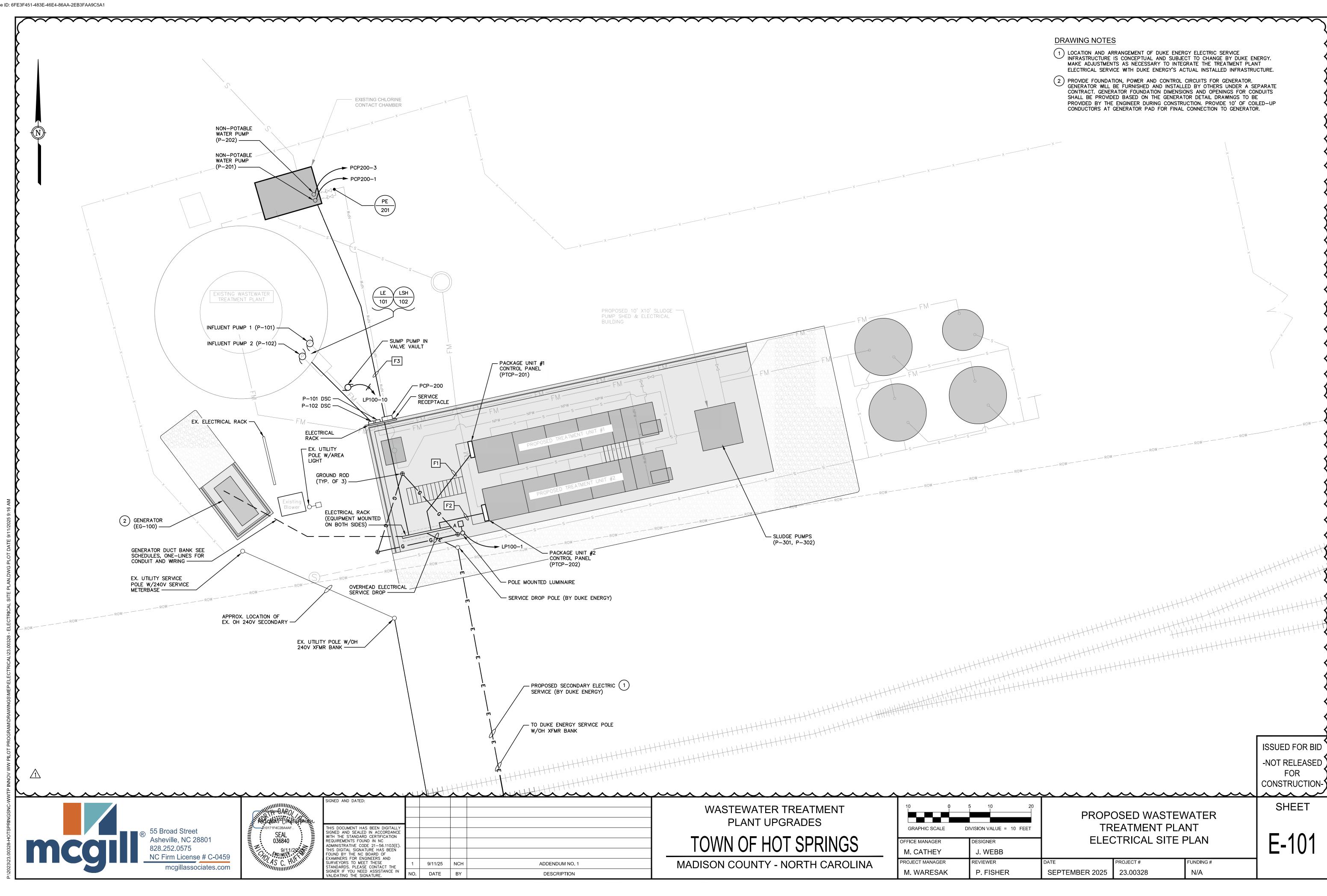
DATE BY DESCRIPTION WASTEWATER TREATMENT PLANT UPGRADES

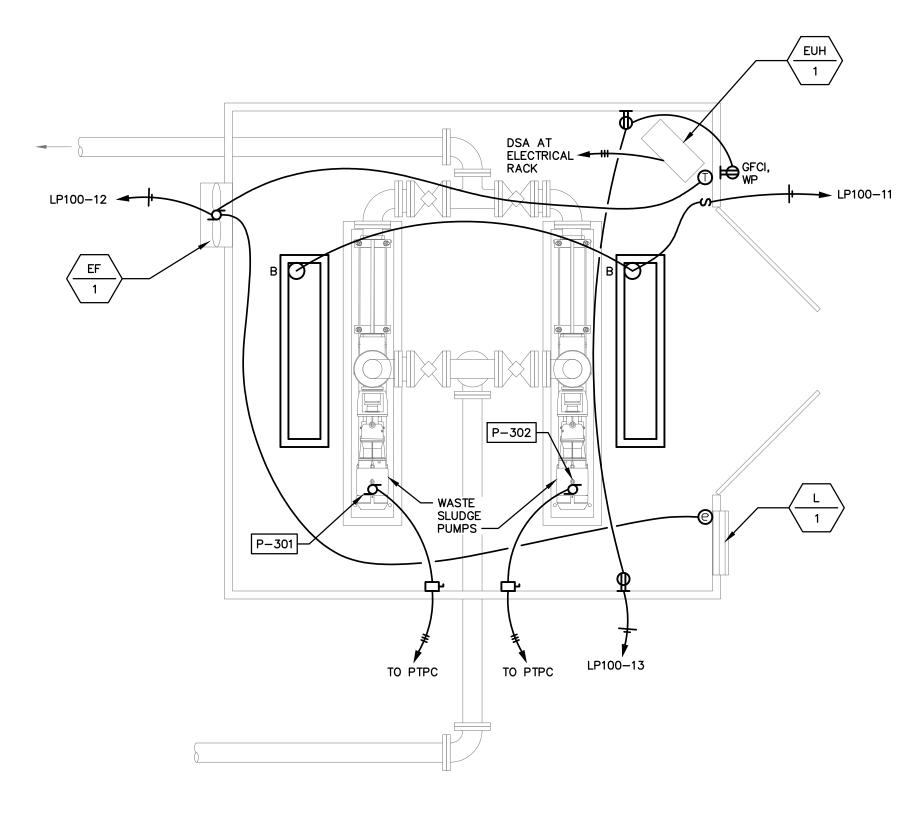
TOWN OF HOT SPRINGS

MADISON COUNTY - NORTH CAROLINA

NOT TO) SCALE	MISCELLANEOUS DETAILS		
FICE MANAGER	DESIGNER			
I. CATHEY	W. HALE			
OJECT MANAGER	REVIEWER	DATE	PROJECT#	FUNDING #
K. WEBB	_	SEPTEMBER 2025	23.00328	

SHEET C-503

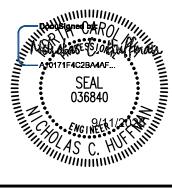




ELECTRICAL PLAN

SCALE: 1/2"=1'-0"

55 Broad Street
Asheville, NC 28801
828.252.0575
NC Firm License # C-0459
mcgillassociates.com



		<u> </u>		<u> </u>	
Cook Ground AROLLING	SIGNED AND DATED:				
Apol71F4C2BA4AF SEAL	THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED IN ACCORDANCE				
036840 = 036840	WITH THE STANDARD CERTIFICATION REQUIREMENTS FOUND IN NC ADMINISTRATIVE CODE 21–56.1103(E). THIS DIGITAL SIGNATURE HAS BEEN				
AS C. HUKUMINI	FOUND BY THE NC BOARD OF EXAMINERS FOR ENGINEERS AND SURVEYORS TO MEET THESE STANDARDS. PLEASE CONTACT THE	1	9/11/25	NCH	ADDENDUM NO. 1
· · · · · · · · · · · · · · · · · · ·	SIGNER IF YOU NEED ASSISTANCE IN VALIDATING THE SIGNATURE.	NO.	DATE	BY	DESCRIPTION

WASTEWATER TREATMENT PLANT UPGRADES

TOWN OF HOT SPRINGS MADISON COUNTY - NORTH CAROLINA

_			<u> </u>				<u> </u>
	2'	() 1	l' 2	2'	4'	
	GRAPHIC	SCALE		DIVISION	VALUE: 1/2"	= 1'-0"	
	OFFICE MANA			DESIGN			
	M. CATI	HEY		J. W	EBB		

P. FISHER

PROJECT MANAGER

M. WARESAK

SLUDGE PUMP BUILDING **ELECTRICAL PLAN VIEW**

N/A

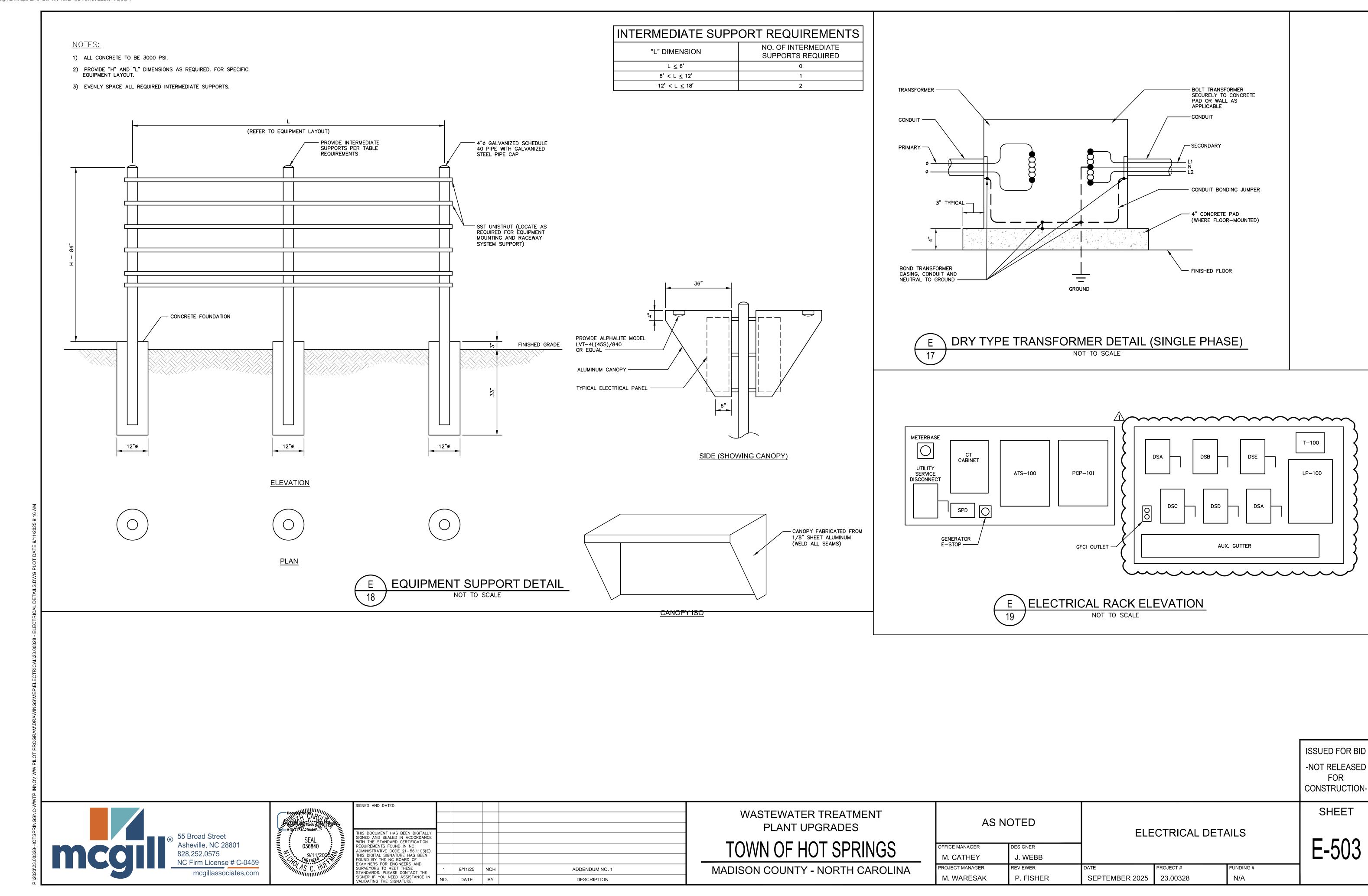
SEPTEMBER 2025 23.00328

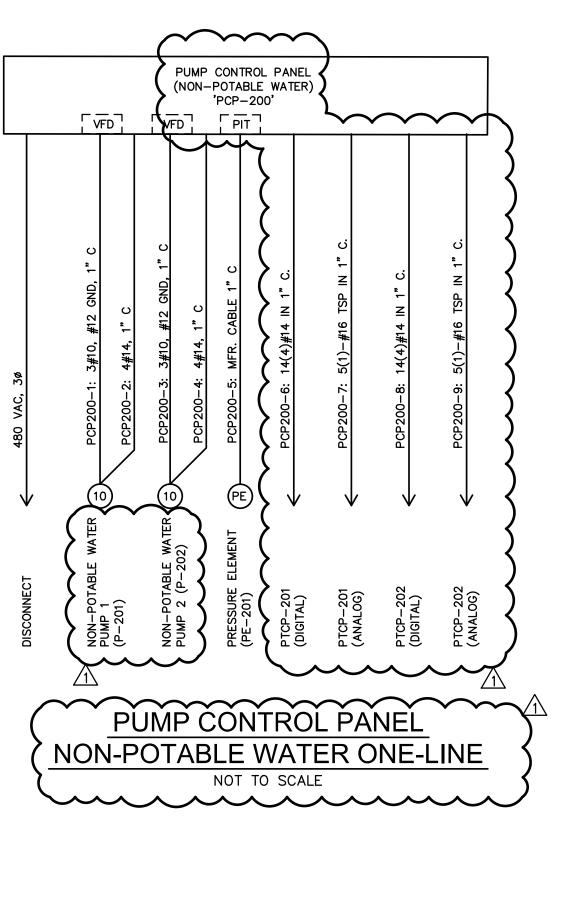
SHEET

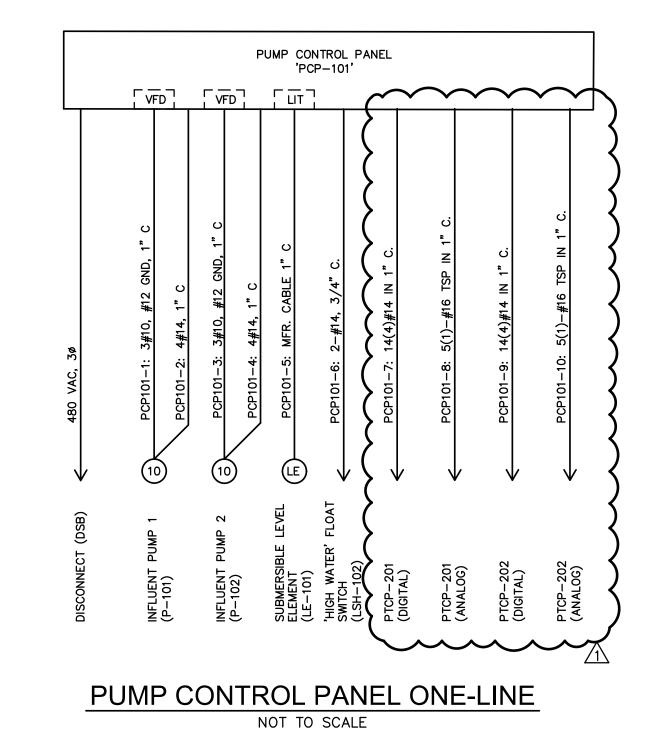
ISSUED FOR BID

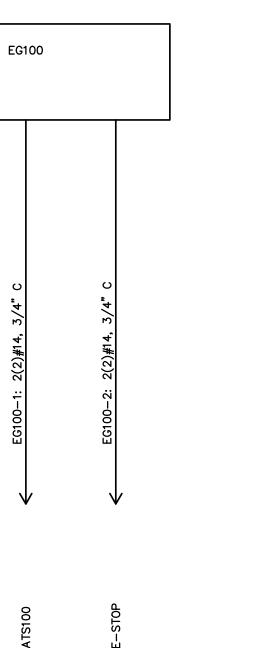
-NOT RELEASED FOR CONSTRUCTION-

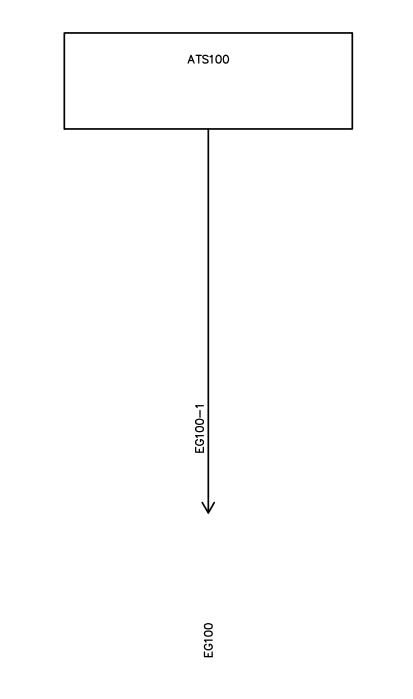
E-102

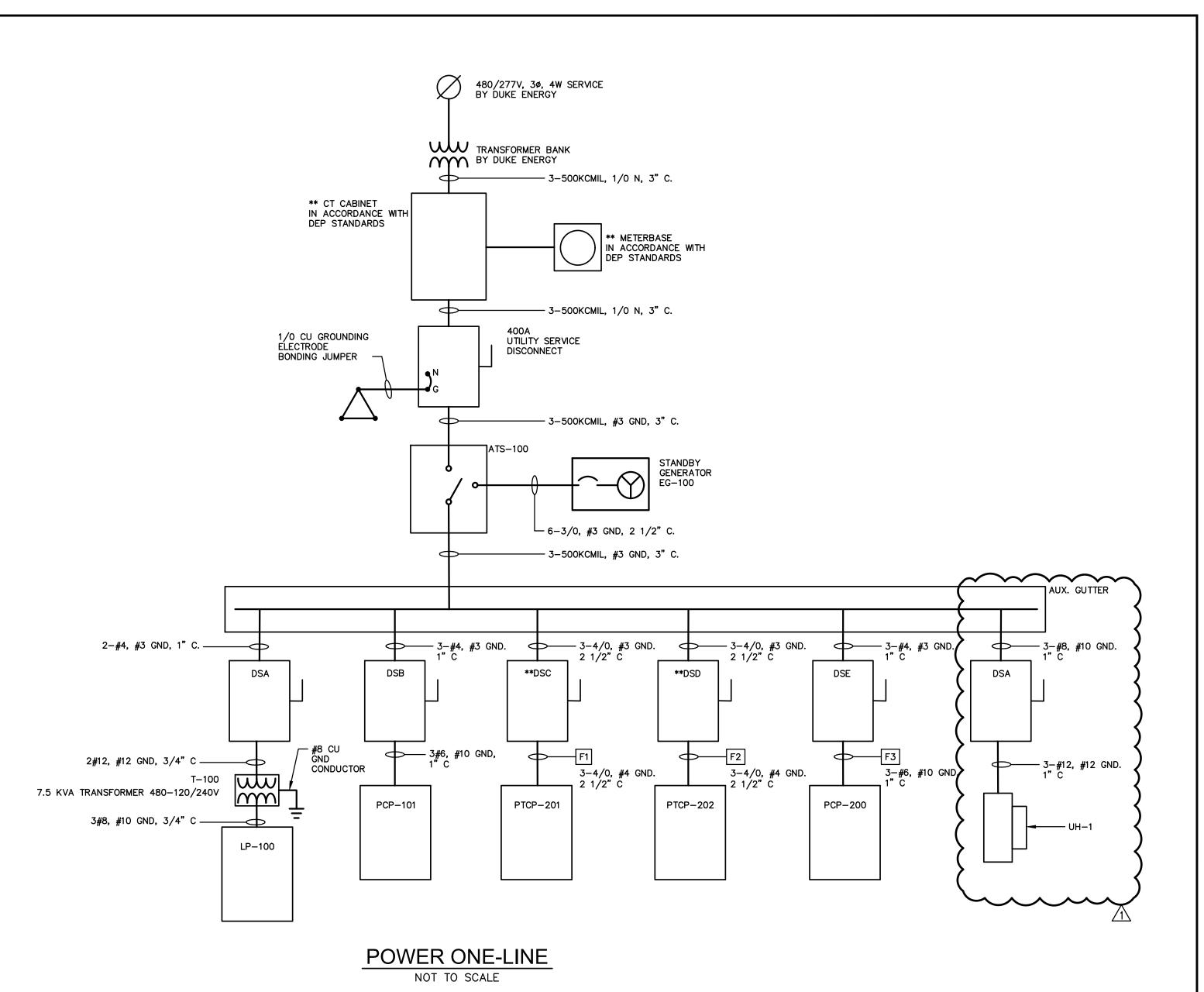












NOTES:

** - FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

M. WARESAK

P. FISHER

ATS CONTROL ONE-LINE

NOT TO SCALE

55 Broad Street
Asheville, NC 28801
828.252.0575
NC Firm License # C-0459
mcgillassociates.com

ENGINE-GENERATOR CONTROL ONE-LINE

NOT TO SCALE

	SIGNED AND DATED:				
<i>H</i> IIII	THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED IN ACCORDANCE WITH THE STANDARD CERTIFICATION REQUIREMENTS FOUND IN NC				
	ADMINISTRATIVE CODE 21-56.1103(E). THIS DIGITAL SIGNATURE HAS BEEN FOUND BY THE NC BOARD OF EXAMINERS FOR ENGINEERS AND				
	SURVEYORS TO MEET THESE STANDARDS, PLEASE CONTACT THE	1	9/11/25	NCH	ADDENDUM NO. 1
	SIGNER IF YOU NEED ASSISTANCE IN VALIDATING THE SIGNATURE.	NO.	DATE	BY	DESCRIPTION

WASTEWATER TREATMENT PLANT UPGRADES

TOWN OF HOT SPRINGS
MADISON COUNTY - NORTH CAROLIN

ASI	NOTED		ELEC	TRICAL O	NE-L	INES
OFFICE MANAGER	DESIGNER					
M. CATHEY	J. WEBB					
PROJECT MANAGER	REVIEWER	DATE		PROJECT#		FUNDING#

SEPTEMBER 2025 23.00328

SHEET

ISSUED FOR BID

-NOT RELEASED FOR CONSTRUCTION-

E-601

N/A

Dis	Disconnect Switch Schedule (All Switches Heavy Duty)												
Desig	Minimum	n Ratings	Pole	Fuse	Non-Fuse	NEMA	Mounting						
Desig	Volt	Amp	FOIE	i use	Non-i use	INCIVIA	Mounting						
DSA	480V	20	3	X (20A)		4XSS(316)	Surface						
DSB	480V	60	3	X (60A)		4XSS(316)	Surface						
*DSC	480V	300	3	X (250A)		4XSS(316)	Surface						
*DSD	480V	300	3	X (250A)		4XSS(316)	Surface						
DSE	480V	60	3	X (60A)		4XSS(316)	Surface						
* - FURNIS	HED BY OW	NER. INSTA	ALLED BY C	ONTRACTOR									

	GENERATOR SCHEDULE												
MARK	STANDB Y RATING (Kw)	RATED PF	VOLTAGE	STARTING kVA AT 15% VOLTAGE DIP	OUTPUT CB TRIP RATING (A) WITH ADJUSTABLE TRIP	FUEL TYPE							
EG100	180	0.8	480 VAC, 3Ф, 4W	190.5	400	DIESEL							

	TRANSFER SWITCH SCHEDULE												
MARK	SWITCH RATING (A)	SWITCHED POLES	VOLTAGE	CLOSING AND WITHSTAND RATING (RMS SYM. A)	ENCOLSURE TYPE (NEMA RATING)	TRANSITION TYPE							
ATS100	400	3	277/480 VAC, 3Ф, 4W	22K	3R	OPEN, DELAYED							

	PANEL	LP1	00			В	JS AMP	100A	М	IN. A.I.C.	10,000		MAIN E	BREAK	KER	4	0A		
	MOUNTING	SURFA	CE				PHASE	1	-	WIRE	3	-		VOLT	AGE	120	/240	-	
	LOCATION	ELEC.	RACK	<u> </u>		NEM	A TYPE	4X	-										
скт	DESCRIPTION	BREA	KER	LOAD	(KW)	W	IRE .	GND.	COND	COND	GND.	W	IRE	LOAD	(KW)	BRE	AKER	DESCRIPTION	Ck
O.K.I	BESSIAII TIGH	AMP	POLES	S A	В	NO	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	NO	Α	В	POLES	AMP	BEGGIAII HOIV	
1	AREA LIGHT	20	1	0.2		2	12	12	3/4	3/4	12	12	2	0.2		1	20	SERVICE RECEPTACLE	2
3	OEN COOLANT LIEATED				0.8	3	12	12	3/4						-		20	ODADE	4
5	GEN. COOLANT HEATER	20	2	0.8										-		2	20	SPARE	6
7	GEN. BATTERY CHARGER	20	1		0.2	2		12	3/4	3/4	12	12	2		0.6	1	20	HEAT TRACE	8
9	GFCI OUTLET	20	1	0.2		2	12	12	3/4	3/4	12	12	2	0.6		1	20	IPS VAULT SUMP PUMP	1
11	SLUDGE PS SHED LIGHTS	20	1		0.1	2	12	12	3/4	3/4	12	12	2		0.2	1	20	SLUDGE PS SHED EXH. FAN	1
13	SLUDGE PS SHED RECEPT.	20	1	0.5		2	12	12	3/4					-		1	20	SPARE	1.
15	SPARE	20	1												-	1	20	SPARE	10
17	SPACE - PFFB																	SPACE - PFFB	1
19	SPACE - PFFB																	SPACE - PFFB	2
1		I								1	0.15 =0								
ŀ	SUB-TOTAL LOAD KW		-	1.7	1.1						SUB-TC	OAD KW		0.8					

	LUMINAIRE SCHEDULE												
TYPE	MANUFACTURER	CATALOG NUMBER	NO.	AMPS TYPE	NO.	LLASTS TYPE	INPUT WATTS	MT. HEIGHT	REMARKS	VOLTS			
А	LUMARK GARDCO LITHONIA	PRV-PA1-A-740-U-T4W-BZ-PR-OA/RA1014 ECF-S-32L-530-NW-G2-AR-4-TLRPC-BK RSX1 LED P1 40K R4 MVOLT RPA PER7 DBLXD	1	LED	1	LED DRIVER	54 56 51	SSA POLE 20'	OUTDOOR AREA LIGHT FIXTURE WITH PHOTOCELL CONTROL, PROVIDE PHOTOCELL. 4000K, 7000 LUMENS MIN.	120			
В	METALUX LITHONIA PHILIPS	4BCLED-LD4-40SL-F-UNV-L840-SD1-U WL4-40L-EZ1-LP840-N80-DIM10 FSW440L840-120-SDIM	1	LED		DRIVER	39	SURFACE	1'x4' WALL/SURFACE MOUNTED LED LUMINAIRE 4000 LUMENS , 4000K, 80 CRI , DIFFUSE ACRYLIC LENS	120			

		Ductbank Conduit	Schedule		
Conduit Tag No.	From	То	Conduit/Wiring Legend No.	Conduit Size	Remarks
F1	DSC	PTCP-201		2 1/2"	POWER
F2	DSD	PTCP-202		2 1/2"	POWER
F3	DSE	PCP-200		1"	POWER
F4	PCP-101	P-101	PCP101-1	1"	POWER
F5	PCP-101	P-101	PCP101-2	1"	CONTROL
F6	PCP-101	P-102	PCP101-3	1"	POWER
F7	PCP-101	P-102	PCP101-4	1"	CONTROL
F8	PCP-101	LE-101	PCP101-5	1"	POWER
F9	PCP-101	LSH-102	PCP101-6	1"	POWER
F10	LP-100	AREA LIGHT	LP100-1	3/4"	POWER
F11	LP-100	SERVICE RECEPTACLE	LP100-3,5	3/4"	POWER
F12	LP-100	GEN. COOLANT HEATER	LP100-4,6	3/4"	POWER
F13	LP-100	SUMP PUMP	LP100-7	3/4"	POWER
F14	LP-100	HEAT TRACE	LP100-8	3/4"	POWER
F15	LP-100	GFCI OUTLET	LP100-9	3/4"	POWER

	ELECTRIC UNIT HEATER SCHEDULE											
EUH	LOCATION	MOUNTING	14511	0514		Е	LECTRICA	۸L				
#	LOCATION	MOUNTING	MBH	CFM	AIR RISE	AMPS	KW	VOLTS/ø	MANUFACTURER/MODEL NO.	NOTES		
EUH-1	PUMP BUILDING	CEILING	17	350	50 ° F	6	5	480/3	BERKO/SERIES HUHAA	1-2		

1. EQUALS BY REZNOR, TRANE, AND MARKEL.



EXHAUST FAN SCHEDULE										
EF#	LOCATION	CFM	E.S.P.	RPM	EL	ECTRICAL	SOUND LEVEL SONES	MAX BHP	MANUFACTURER/MODEL NO.	NOTES
EF#	LOCATION	(MAX.)	KPIVI	HP	VOLTS/PHASE	SOUND LEVEL SOINES	IVIAX BHP	MANOFACTORER/MODEL NO.	INUTES	
EF-1	PUMP BUILDING	600	0.25	1550	1/10	115/1	6.6	0.12 BHP	GREENHECK/ SE1-426-D	

- 1. ACCEPTABLE MANUFACTURERS: COOK, AEROVENT.
- 2. PROVIDE PREMIUM EFFICIENCY MOTOR AND STARTER/DISCONNECT WITH LOCKOUT DEVICE. REFER TO ELECTRICAL SHEETS FOR MOTOR STARTER REQUIREMENTS AND WIRING DIAGRAMS.
- 3. PROVIDE GRAVITY BACKDRAFT DAMPER, WALL COLLAR, AND MOTOR SIDE FAN GUARD. SIZE WALL OPENING PER WALL COLLAR DIMENSIONS.

	LOUVER SCHEDULE								
		DIM	1INSIONS (IN.)	PE	RFORMAN	ICE		
L#	LOCATION	WIDTH	HEIGHT	DEPTH	(CFM) RATING FLOW	(IN W.G.) ΔP	WATER PENETRATION*	MANUFACTURER/ MODEL NO.	NOTES
L-1	PUMP BUILDING	18	24	6	600	0.08	<0.01	NAILOR/ SERIES 1606D	

- 1. ALTERNATIVE MANUFACTURERS: CONSTRUCTION SPECIALTIES, ARROW, DOWCO, RUSKIN.
- 2. PROVIDE ALL LOUVERS WITH 1/4" GALVANIZED OR ALUMINUM BIRD SCREEN.
- 3. SUPPLY CUSTOM COLOR SELECTED BY OWNER.
- 4. LOUVER SHALL INCLUDE POWER OPEN, SPRING CLOSED 120V/1ø/60HZ MOTOR.

ISSUED FOR BID -NOT RELEASED FOR CONSTRUCTION-





SIGNED AND DATED:					
					İ
					İ
					İ
THIS DOCUMENT HAS BEEN DIGITALLY					l
SIGNED AND SEALED IN ACCORDANCE WITH THE STANDARD CERTIFICATION					İ
REQUIREMENTS FOUND IN NC ADMINISTRATIVE CODE 21-56.1103(E).					İ
THIS DIGITAL SIGNATURE HAS BEEN '					i
FOUND BY THE NC BOARD OF EXAMINERS FOR ENGINEERS AND					İ
SURVEYORS TO MEET THESE STANDARDS. PLEASE CONTACT THE	1	9/11/25	NCH	ADDENDUM NO. 1	
SIGNER IF YOU NEED ASSISTANCE IN VALIDATING THE SIGNATURE.	NO.	DATE	BY	DESCRIPTION	

WASTEWATER TREATMENT PLANT UPGRADES TOWN OF HOT SPRINGS

MADISON COUNTY - NORTH CAROLINA

AS NO	OTED	ELEC ⁻	TRICAL SCHED	ULES
OFFICE MANAGER	DESIGNER			
M. CATHEY	J. WEBB			
PROJECT MANAGER	REVIEWER	DATE	PROJECT#	FUNDING#
M. WARESAK	P. FISHER	SEPTEMBER 2025	23.00328	N/A

SHEET

E-701

N/A

BID FORM

Wastewater Treatment Plant Upgrade

Town of Hot Springs, North Carolina

TABLE OF ARTICLES

<u>Art</u>	icle No.
d Recipient	1
dder's Acknowledgements	2
dder's Representations	3
arther Representations	4
asis of Bid	5
me of Completion	6
ttachments to this Bid	7
efined Terms	8
d Submittal	9

ARTICLE 1 – BID RECIPIENT

This Bid is submitted to:

Town of Hot Springs 43 N. Andrews Ave Hot Springs, NC 28743

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the date of the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

3.01

In s	submitting this Bid, Bi	dder represents that:
A.		and carefully studied the Bidding Documents, the other related data ding Documents, and the following Addenda, receipt of which is l.
	Addendum No.	Addendum Date

- B. Bidder has visited the Project Site and has become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures, including Underground Facilities, at or contiguous to the Site which have been included as a part of the Contract Documents.
- E. Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or

which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

- F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- I. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder or, if no written response was made by Engineer, that Bidder has resolved the issue to its satisfaction prior to the submittal of its Bid.
- J. The Bidding Documents are sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- K. Bidder will submit written evidence of its authority to do business in the state where the Project is located not later than the date of its execution of the Agreement.
- L. Bidder has not relied upon any information provided by the Engineer except information which is part of the Bidding Documents and in writing in the form of a formal addendum.
- M. The submission of a Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of the Bid Documents and the Instructions to Bidders, and that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences, and procedures of construction that may be shown or indicated or expressly required by the Bidding Documents.

ARTICLE 4 – FURTHER REPRESENTATIONS

- 4.01 Bidder further represents that:
 - A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation;
 - B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid:
 - C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D.	Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder
	or over Owner.

ARTICLE 5 – BASIS OF BID

Bidders are required to fill out the Lump Sum Base Bid as follows. Bidder will complete the Work in accordance with the Contract Documents for *one* of the following lump sum prices:

Lump Sum Base Bid

The base bid price shall include all costs for furnishing materials and labor complete, each item including all sales tax, labor cost, material cost, and cost of miscellaneous items.

LUMP SUM BID	Cost
	\$
dollars	(numbers)
(Words)	

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete within 120 calendar days after the date when the Contract Times commence to run as provided in the Modified General Conditions, and will be completed and ready for final payment in accordance with the Modified General Conditions within 150 calendar days after the date when the Contract Times commence to run.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the Contract Times and Milestone time periods.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01	The following documents are attached to and made a condition of this Bid:						
	A. Required Bid security in the form of						
	B. List of Proposed Subcontractors						
	C. List of Proposed Suppliers						
	D. Bidder Qualifications and Project References						

ARTICLE 8 – BID SUBMITTAL 8.01 This Bid submitted by: If Bidder is: An Individual Name (typed or printed): By: _____(SEAL) (SEAL) Doing business as: A Partnership Partnership Name: _____(SEAL) By: _____ (Signature of general partner -- attach evidence of authority to sign) Name (typed or printed): A Corporation Corporation Name: _____(SEAL) State of Incorporation: Type (General Business, Professional, Service, Limited Liability): (Signature -- attach evidence of authority to sign) Name (typed or printed):

(CORPORATE SEAL)

Date of Authorization to do business in North Carolina is ___/____.

A Joint Venture Name of Joint Venture: First Joint Venturer Name: _____ (SEAL) By: (Signature of first joint venture partner -- attach evidence of authority to sign) Name (typed or printed): Second Joint Venturer Name: _____(SEAL) By: (Signature of second joint venture partner -- attach evidence of authority to sign) Name (typed or printed): (Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.) FOR ALL BIDDERS: Address Bidder's Business Address ____ Phone No. (____) ___-_ Fax No. (____) ___-

State Contractor License No. ______.