JASPER WATER WORKS & SEWER BOARD

SEWER IMPROVEMENTS

TOWN CREEK WWTP CLARIFIER #1 AND #2 IMPROVEMENTS

The PDF digital Contract Documents for this project consist of the Drawings and Specifications and are being released by the Engineer solely as a convenience to the Bidders. Actual hard copies of Contract Documents bearing a stamp and signature of a professional engineer shall be used for the purpose of providing a bid proposal for this project.

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OCTOBER 2021

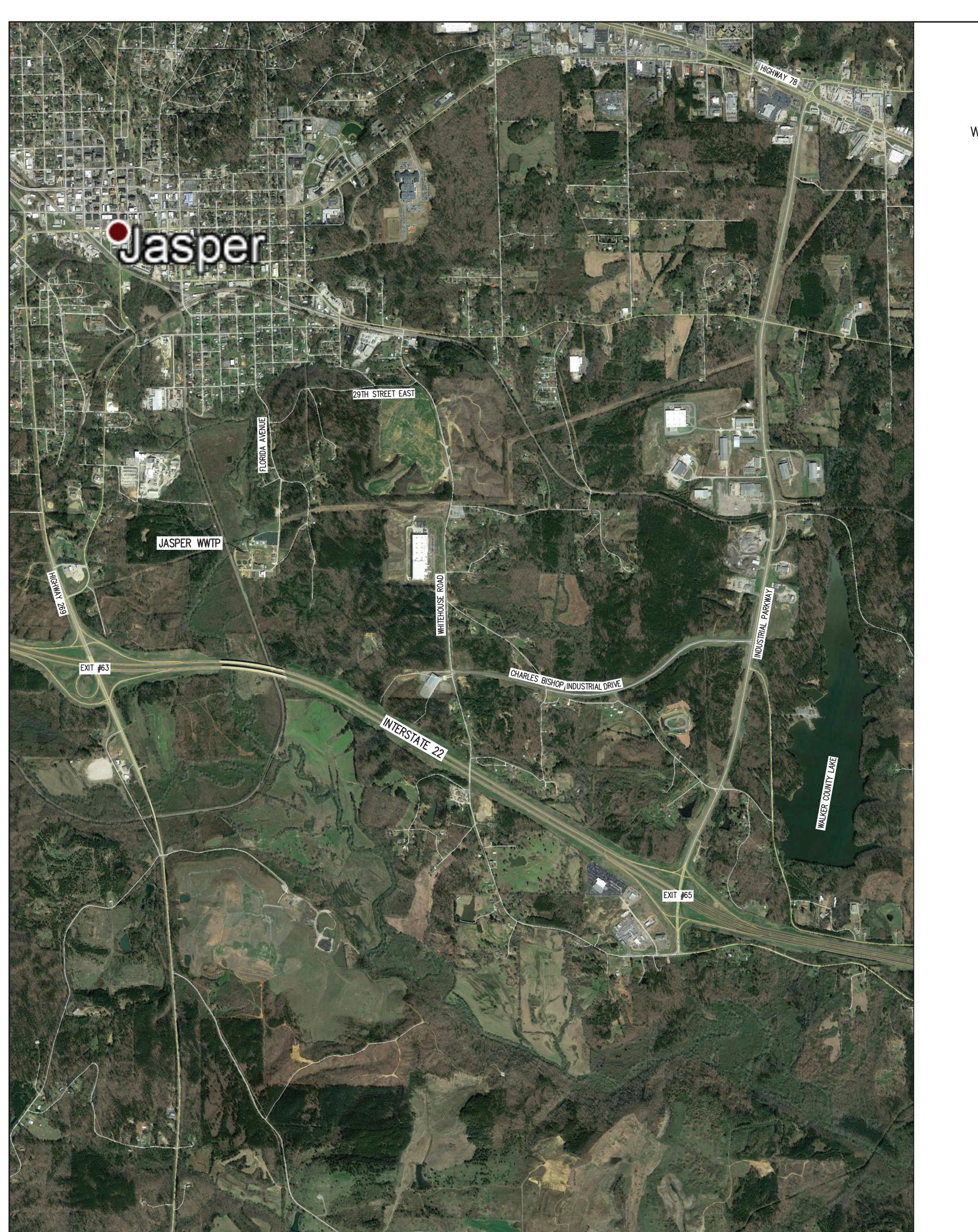
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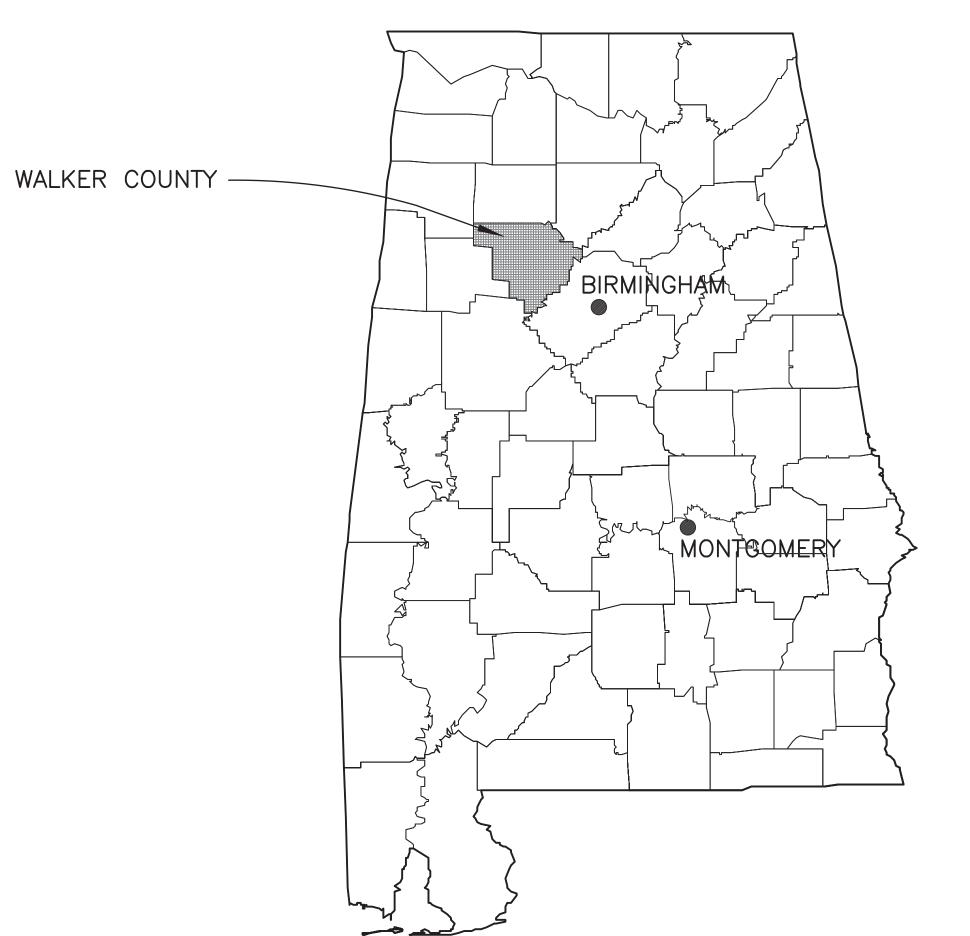
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Municipal Consultants, Inc. Birmingham, Alabama

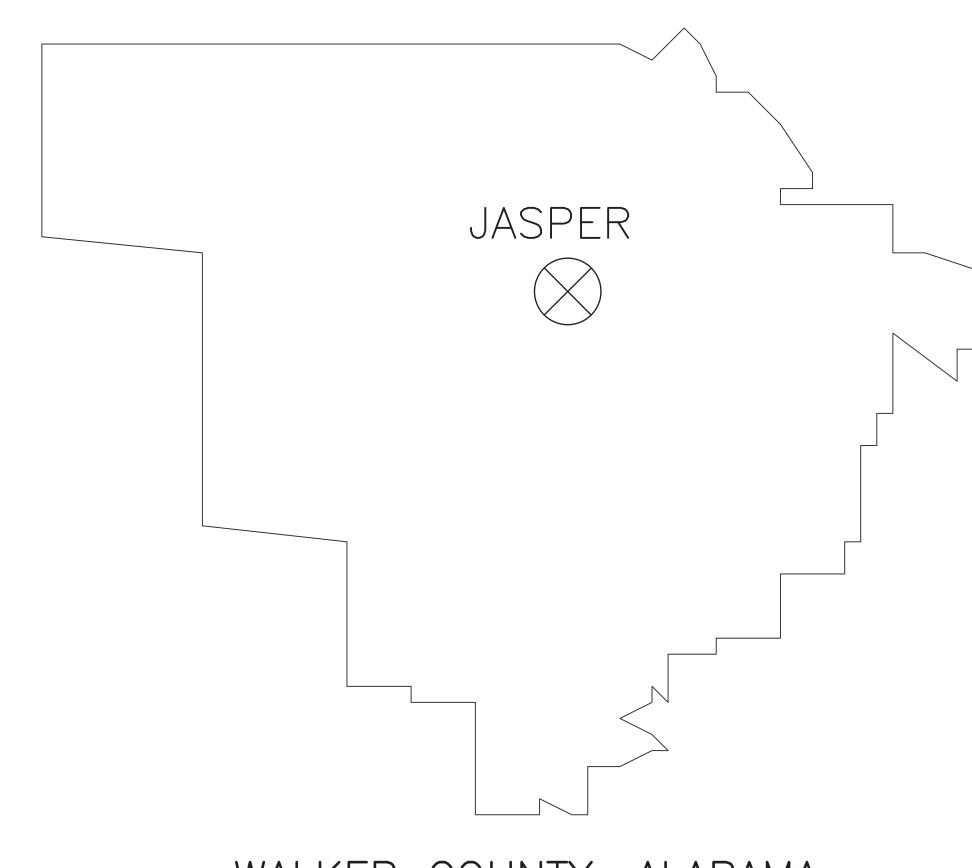


BID SET





ALABAMA MAP



BAR = 1"

WALKER COUNTY, ALABAMA

1. THE CONTRACTOR IS FULLY AND SOLELY RESPONSIBLE FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROCEDURES, TECHNIQUES, MEANS AND METHODS OF CONSTRUCTION.

2. WASTEWATER TREATMENT PLANTS CONTAIN MANY DANGERS AND HAZARDS. THESE INCLUDE, <u>BUT ARE BY NO MEANS LIMITED TO</u>, SUCH DANGERS AS CONFINED SPACES, ATMOSPHERES WITH DANGEROUSLY LOW OXYGEN LEVELS, TOXIC AND EXPLOSIVE GASES, POTENTIALLY HAZARDOUS GASES STORED AND USED ONSITE, SEWAGE AND SLUDGE WITH PATHOGENS, ELECTRICAL HAZARDS, FALLING HAZARDS, DROWNING HAZARDS, NATURAL GAS HAZARDS, UNANTICIPATED EQUIPMENT STARTING, AND TRENCH DANGERS, AMONG OTHERS. NOTE THAT POWER IN A PANEL, AN ENCLOSURE, OR AT EQUIPMENT, ETC., MAY ORIGINATE FROM MULTIPLE, DIFFERENT AND INDEPENDENT SOURCES. THE CONTRACTOR SHALL HAVE A THOROUGH UNDERSTANDING OF ALL THE DANGERS AND HAZARDS ASSOCIATED WITH THIS TYPE OF WORK. THE CONTRACTOR SHALL INSURE THAT ALL HIS PERSONNEL AND ALL SUBCONTRACTOR PERSONNEL, ETC., FOLLOW ALL APPROPRIATE SAFETY PRECAUTIONS AT ALL TIMES. CONTINUOUSLY COMPLY WITH ALL OSHA REGULATIONS AND REQUIREMENTS, ETC. AND ALWAYS FOLLOW GOOD SAFETY PRACTICES. THE CONTRACTOR SHALL BE AWARE THAT THIS IS AN OPERATING FACILITY AND THAT PERSONNEL MUST MAKE THEIR ROUNDS THROUGH ALL AREAS OF THE WWTP THROUGHOUT THE DAY. AS SUCH, THE CONTRACTOR MUST CAREFULLY PLAN HIS ACTIVITIES AND ALWAYS PROVIDE ADEQUATE SAFETY BARRIERS AND OTHER MEASURES AS DESIRABLE, ETC., TO CONTINUOUSLY PROTECT PERSONNEL AND VISITORS, AS WELL AS HIS OWN PERSONNEL. SAFETY IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER HAVE ANY DUTY TO REVIEW THE SAFETY PRACTICES OF THE CONTRACTOR.

3. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS EQUIPMENT AND MATERIALS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO FIELD VERIFY ALL EXISTING PIPE FITTINGS AND LENGTHS BEFORE ORDERING MATERIALS.

4. THIS PROJECT REQUIRES WORK IN AND CONNECTIONS TO AN EXISTING, ACTIVE, OPERATING WASTEWATER TREATMENT PLANT. AS SUCH, THE CONTRACTOR SHOULD ANTICIPATE THE PROBLEMS ASSOCIATED WITH SUCH WORK, INCLUDING BUT NOT LIMITED TO, COORDINATION OF ALL WORK WITH THE OWNER (THROUGH THE ENGINEER) INCLUDING MAKING TIE—INS, ELECTRICAL TIE—INS AND MODIFICATIONS, AND INTERRUPTIONS DURING SUITABLE PERIODS, THOROUGHLY PLANNING WORK ACTIVITIES TO MINIMIZE INTERRUPTIONS OF NORMAL OPERATIONS, MAINTAINING SITE SAFETY FOR THE OPERATIONS AND MAINTENANCE STAFF, AND LEAKING GATES AND VALVES, ETC. SOME ACTIVITIES MAY BE BEST PERFORMED DURING THE EARLY MORNING HOURS OF DRY WEATHER. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER/ENGINEER DURING LOW DEMAND TIMES. THIS MAY REQUIRE WEEKEND AND OR NIGHT TIME WORK (NO ADDITIONAL PAYMENTS WILL BE MADE FOR THIS WORK IF NEEDED).

5. WHERE WORK TIES TO, OR IS LOCATED IN OR ADJACENT TO, EXISTING STRUCTURES OR PIPING, CAREFULLY INSPECT FACILITIES AND VERIFY MATERIALS, DEPTHS, DIMENSIONS, AND ANY POSSIBLE CONFLICTS PRIOR TO PLANNING THE WORK OR ORDERING MATERIALS, ETC. DEWATER OR EXCAVATE EXISTING FACILITIES AS REQUIRED FOR THESE INSPECTIONS. THE CONTRACTOR SHALL ANTICIPATE THAT CHANGES WILL BE NECESSARY AS A RESULT OF THESE INSPECTIONS AND THERE SHALL BE NO EXTRA PAYMENT OR TIME FOR THESE CHANGES OR ADJUSTMENTS.

6. PRIOR TO PLACING ANY NEW STRUCTURES, PIPING, OR EQUIPMENT, ETC., INTO SERVICE, CLEAN UP ALL TRASH AND DEBRIS AND CHECK OUT ALL EQUIPMENT, GATES, AND ALL APPURTENANCES TO THE MAXIMUM EXTENT POSSIBLE AND TAKE OTHER ACTIONS AS APPROPRIATE TO MINIMIZE THE POTENTIAL FOR PROBLEMS.

7. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL BACKUPS, BYPASSES, OR OVERFLOWS, ETC., RESULTING FROM HIS WORK, AND FOR ANY AND ALL SUBSEQUENT DAMAGES, FINES, PENALTIES, OR OTHER COSTS INCURRED, INCLUDING ANY AND ALL COSTS INCURRED BY THE OWNER, CAUSED BY WORK BY THE CONTRACTOR.

8. THIS IS AN EXISTING PLANT THAT HAS BEEN MODIFIED AFTER THE ORIGINAL CONSTRUCTION. MUCH INFORMATION IS BASED ON DRAWINGS PREPARED FOR THE CONSTRUCTION OF THE ORIGINAL PLANT AND OTHER ADDITIONS. MUCH OF THIS INFORMATION HAS NOT BEEN FIELD VERIFIED. CONTRACTOR SHALL FIELD VERIFY INFORMATION AS REQUIRED FOR THE TIMELY PROSECUTION OF THE WORK.

9. ALL WORK ACTIVITIES (INCLUDING ELECTRICAL) THAT AFFECT PLANT OPERATIONS MUST BE SEQUENCED WITH THE EXISTING PLANT OPERATIONS. THESE SHALL BE CAREFULLY PLANNED AND COORDINATED WITH BOTH THE OWNER AND THE ENGINEER TO RESULT IN A MINIMUM OF INTERFERENCE WITH THE EXISTING OPERATIONS. THE CONTRACTOR SHALL PERFORM AS MUCH PRELIMINARY OR ASSEMBLY WORK AS POSSIBLE PRIOR TO INITIATING OPERATIONS REQUIRING SEQUENCING. WHERE APPLICABLE, THE CONTRACTOR SHALL HAVE STANDBY EQUIPMENT ON SITE SUCH THAT THE LOSS OF INDIVIDUAL EQUIPMENT WILL NOT PREVENT THE COMPLETION OF SUCH CONNECTIONS, ETC.

10. THE CONTRACTOR SHOULD ANTICIPATE THAT EXISTING VALVES, GATES, OR OTHER FLOW CONTROL STRUCTURES OR DEVICES WILL LEAK. THE CONTRACTOR SHALL MAKE ALL PROVISIONS AND PROVIDE ALL REQUIRED EQUIPMENT (I.E. PLUGS, CAPS, COVERS, ETC.) TO HANDLE THE EXISTING FLOW WHILE PERFORMING THE REQUIRED WORK.

11. ALL CONSTRUCTION TO BE IN ACCORDANCE W/ CITY OF JASPER RULES AND REGULATIONS. CONTRACTOR SHALL OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR CONSTRUCTION.

DEMOLITION NOTES

1. THE CLARIFIER STRUCTURES ARE EXISTING. THE CONTRACTOR SHALL REMOVE AND DEMOLISH ALL ITEMS NOTED OR INFERRED IN REGARDS TO THE CLARIFIER MECHANISM, CENTER COLUMN, TRUSS ARMS, CAGES, SCUM BEACH, SCUM ARMS, CENTER WELL, ETC. THE CONTRACTOR SHALL BE AWARE THAT ALL EQUIPMENT, COMPONENTS, PIPING, ELECTRICAL, ETC. THAT WILL BE REQUIRED TO BE REMOVED MAY NOT BE SHOWN OR NOTED ON THE PLAN VIEW OR SECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND PROPERLY DISPOSE OF ALL EQUIPMENT, MATERIALS, ETC. REQUIRED TO COMPLETE THE PROJECT.

2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROPER DISPOSAL OF ANY AND ALL EXCESS MATERIALS, EQUIPMENT, ETC. RESULTING FROM THE DEMOLITION AND/OR THE WORK PERFORMED. ANY AND ALL EXCESS MATERIALS, EQUIPMENT, CONSTRUCTION WASTE, ETC. SHALL BE HAULED OFF-SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL COST(S) ASSOCIATED WITH THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. ALL UNUSED/OLD ANCHOR BOLTS, MISCELLANEOUS METAL, ETC. SHALL BE CUT AND GROUND SMOOTH FLUSH (OR BELOW THE SURFACE) WITH SURROUNDING CONCRETE FLOORS, WALLS, ETC.

4. SLAB DEFECTS SUCH AS HOLES, IMPERFECTIONS, DETERIORATED AREAS SHALL BE REPAIRED WITH GROUT AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION

PROJECT NOTES

1. THE CONTRACTOR SHALL REMOVE AND REPLACE THE CLARIFIER MECHANISM IN ITS ENTIRETY IN CLARIFIER #1 AND #2 WITH NEW EQUIPMENT. THE CONTRACTOR SHALL INSTALL AND MAKE FULLY FUNCTIONAL ALL EQUIPMENT AND COMPONENTS REQUIRED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. SEE SPECIFICATIONS FOR EXACT EQUIPMENT TO BE PROVIDED. THE CLARIFIER MANUFACTURER SHALL PROVIDE (AS PART OF EQUIPMENT CONTRACT) A FIELD TECHNICIAN TO OVERSEE AND APPROVE THE INSTALLATION OF THE EQUIPMENT. CONTRACTOR WILL BE REQUIRED TO PROPERLY COORDINATE WITH THEM FOR INSPECTION OF EQUIPMENT.

2. MUCH OF THE INFORMATION IS BASED ON DRAWINGS PREPARED FOR THE CONSTRUCTION OF THE ORIGINAL PLANT AND/OR OTHER ADDITIONS/MODIFICATIONS. THE CONTRACTOR/CLARIFIER MANUFACTURER SHALL BE RESPONSIBLE FOR, IN A TIMELY MANNER, VERIFYING ALL EXISTING SIZES, MATERIALS, LOCATIONS, ELEVATIONS, DEPTHS, AND DIMENSIONS OF WALLS, CONCRETE, PIPING, ELECTRICAL, ETC. PRIOR TO ORDERING MATERIALS FOR EQUIPMENT OR OTHER PROPOSED WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, LOCATIONS, ETC. ASSOCIATED WITH THE WORK REQUIRED. CONTRACTOR/CLARIFIER MANUFACTURER SHALL PROVIDE THE VERIFIED DIMENSIONS, ELEVATIONS, SIZES, ETC. TO THE OWNER/ENGINEER.

3. THE EXISTING PIPING AND ELECTRICAL LOCATIONS ARE NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR EXISTING PIPING AND ELECTRICAL ITEMS THAT MAY CONFLICT WITH PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL REMOVE/REPLACE, REROUTE, ETC. ANY ITEMS THAT CONFLICT WITH THE PROPOSED ITEMS TO BE INSTALLED AS DIRECTED BY THE OWNER.

4. NO EXISTING YARD PIPING AND ELECTRICAL FACILITIES ARE SHOWN. USE APPROPRIATE MEASURES AND SAFETY PRECAUTIONS TO AVOID DIGGING INTO ELECTRICAL LINES AND OTHER POTENTIAL DANGERS. COORDINATE WITH THE OWNER.

5. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS EQUIPMENT AND MATERIALS REQUIRED FOR A COMPLETE, FULLY FUNCTIONAL SYSTEM AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL PROVIDE ALL SUPPORTS REQUIRED (I.E. UNI-STRUT, L BRACKETS, ETC.). THESE SUPPORTS SHALL BE STAINLESS STEEL.

6. CONTRACTOR SHALL PROVIDE A DUMPSTER (IF NEEDED) AND PORTABLE TOILET FACILITIES FOR HIS FORCES, COORDINATE LOCATION OF FACILITIES WITH OWNER AND ENGINEER.

7. COORDINATE ALL WORK WITH EQUIPMENT PROVIDED, EXISTING STRUCTURES, WALLS, FLOORS, ETC, AND ADJUST AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

8. THE CONTRACTOR SHALL BE AWARE THAT EQUIPMENT DIMENSIONS VARY BY MANUFACTURER. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH APPROVED SHOP DRAWINGS BEFORE ORDERING MATERIALS. COORDINATE ALL WORK WITH EQUIPMENT PROVIDED, EXISTING STRUCTURES, WALLS, FLOORS, ETC, AND ADJUST AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

9. THE CONTRACTOR SHALL PROPERLY ANCHOR ALL EQUIPMENT, PIPING, ELECTRICAL, SUPPORTS, BRIDGE, STAIRS, ETC. TO THE CONCRETE WALLS, FOUNDATION, OR OTHER AREAS. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE ALL ANCHOR BOLTS AND HARDWARE AS REQUIRED. ALL ANCHOR BOLTS AND HARDWARE SHALL BE STAINLESS STEEL.

10. UNLESS INDICATED OTHERWISE ALL ANCHOR BOLTS, WEDGE ANCHORS, EPOXY ANCHORS, MISCELLANEOUS FASTENERS & HARDWARE, ETC, NOT PROVIDED WITH THE PURCHASED EQUIPMENT, SHALL BE STAINLESS STEEL AND BE PROVIDED BY THE CONTRACTOR. ALL THREADS ON STAINLESS STEEL BOLTS, ANCHORS, ETC. USED IN EQUIPMENT APPLICATIONS SHALL BE COATED WITH ANTI-GALLING COMPOUND DESIGNED FOR STAINLESS STEEL.

11. THE CONTRACTOR SHALL COORDINATE WITH OWNER FOR VERTICAL (ELEVATION) CONTROL ONSITE. CONTRACTOR SHALL ESTABLISH VERTICAL CONTROL AROUND CLARIFIER FOR SETTING EQUIPMENT. THE CONTRACTOR SHALL TRANSFER ELEVATION AS REQUIRED FOR WORK TO BE PERFORMED. COORDINATE WITH THE OWNER/ENGINEER.

12. ALL EXISTING D.I. PIPING IN THE CLARIFIER SHALL BE BRUSH BLASTED, CLEANED, AND PREPARED TO BE PRIMED WITH TNEMEC SERIES N140 OR APPROVED EQUAL. ALL NEW AND EXISTING PRIMED PIPING SHOULD BE COATED WITH 2 COATS OF A TNEMEC 142 SPECIFICALLY DESIGNED FOR SEWAGE APPLICATIONS APPLIED OVER TNEMEC PRIMER. FINAL COLOR OF PIPING SHOULD BE BLACK.

13. CONTRACTOR SHALL PROVIDE THEIR OWN JOB—SITE TRAILER (IF NECESSARY) FOR HIS FORCES. CONTRACTOR SHALL CONNECT WATER, POWER, AND OTHER UTILITIES AS REQUIRED. JOB SITE TRAILER AND OTHER ONSITE POWER DEMANDS SHALL BE SERVED FROM THE OWNERS EXISTING ONSITE POWER SUPPLY. WHERE CONSTRUCTION DEMANDS (E.G. CONCRETE VIBRATORS) EXCEED ONSITE POWER AVAILABILITY AT A LOCATION, PROVIDE AUXILIARY POWER AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL MAKE ALL UTILITY CONNECTION(S) REQUIRED.

14. THE CONTRACTOR WILL BE REQUIRED TO EXTEND 3-1" ALUMINUM CONDUITS ON THE BRIDGE TO THE CENTER PIER LOCATION OF EACH CLARIFIER. PROPERLY ATTACH AND SECURE THESE CONDUITS TO THE BRIDGE WITH STAINLESS STEEL SUPPORTS AND HARDWARE.

15. ONCE EXISTING CENTER PIER IS REMOVED, CONTRACTOR SHALL CHIP, HAMMER, GRIND, ETC. LEVELING GROUT AS REQUIRED FOR INSTALLATION OF NEW CLARIFIER CENTER PIER. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANCHOR BOLTS, HARDWARE, EPOXY GROUT AND NON-SHRINK GROUT FOR LEVELING/INSTALLING NEW CENTER PIER AS RECOMMENDED AND REQUIRED.

16. ALL CONCRETE USED (IF ANY) ON THE PROJECT SHALL BE 4,000 PSI TYPE II CEMENT.

17. THE EXISTING SCUM BAFFLE AND EFFLUENT WEIRS IN BOTH CLARIFIERS ARE STAINLESS STEEL. THEY APPEAR TO BE OUT OF LEVEL ACROSS THE CLARIFIERS. THE CONTRACTOR SHALL REMOVE, REUSE, AND REINSTALL THE SCUM BAFFLES AND EFFLUENT WEIRS FOR THE FULL PERIMETER IN EACH OF THE CLARIFIERS. THE CONTRACTOR SHALL REMOVE ALL CAULK, SEALANT, ETC. ON EXISTING WEIRS. THE CONTRACTOR SHALL PROVIDE ALL NEW EXPANSION ANCHOR BOLTS AND HARDWARE (IF NEEDED) IN SAME SIZE AS EXISTING FOR REINSTALLATION. ONCE INSTALLED THE CONTRACTOR SHALL CAULK WALL AND WEIR JOINT AND ALL ALL EDGES, SEAMS, ETC. AS NECESSARY WITH SIKAFLEX 2C OR EQUAL. COORDINATE FINAL V-NOTCH ELEVATIONS WITH OWNER. WEIRS AND SCUM BAFFLES SHALL BE LEVELED ACROSS THE CLARIFIER WITH NO DEVIATION GREATER THAN 1/16" FROM ONE QUADRANT TO THE OTHER WITH NO GREATER THAT 1/8" VARIATION ACROSS THE CLARIFIER.

18. THE CONTRACTOR SHALL COMPLETE IMPROVEMENTS TO CLARIFIER #2 FIRST. THE CONTRACTOR WILL NOT BE ALLOWED TO TAKE THE EXISTING CLARIFIER #2 OUT OF SERVICE FOR IMPROVEMENTS UNTIL 1 WEEK PRIOR TO THE EXPECTED EQUIPMENT DELIVERY DATE. THE CONTRACTOR SHALL PROVIDE THE FIRM EQUIPMENT DELIVERY DATE TO OWNER PRIOR TO TAKING CLARIFIER OUT OF SERVICE.

19. ONCE CLARIFIER MECHANISM IS COMPLETE AND POWERED BY THE OWNER, THE CLARIFIER SHALL BE PLACED INTO SERVICE AND RUN TROUBLE FREE FOR A MINIMUM OF 10 DAYS PRIOR TO OWNER ACCEPTANCE.

SITE NOTES

1. ALL DAMAGED OR DISTURBED AREAS DURING CONSTRUCTION SHALL BE BACKFILLED AND/OR GRADED TO MATCH SURROUNDING GRADES. ALL DISTURBED AREAS SHALL BE SEEDED TO MATCH SURROUNDING AREA GRASSING. CONTRACTOR SHALL PROVIDE TOPSOIL, FERTILIZER, GRASSING, ETC. AS NECESSARY TO MAINTAIN AN EROSION FREE SURFACE.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SITE GRADING AS REQUIRED FOR PROPER AND POSITIVE SITE DRAINAGE. NO PONDING OR STANDING WATER WILL BE ALLOWED OR ACCEPTED.

3. ALL EXISTING SURFACES, STRUCTURES, SIDEWALKS, PAVEMENT, ASPHALT, CURB AND GUTTER, WALKWAYS, PADS, LANDSCAPING, ETC. DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN LIKE KIND AT NO ADDITIONAL COST TO THE OWNER, EXCEPT WHERE IMPROVEMENTS OR CHANGES ARE SHOWN OR NOTED ON THE DRAWINGS. CONCRETE SHALL BE REPLACED FROM THE NEAREST UNDAMAGED CONSTRUCTION OR CONTROL JOINTS. ALL EXISTING SIDEWALKS, WALKWAYS, PADS, PAVEMENT, ETC. AND ALL OTHER CONCRETE MAY NOT BE SHOWN ON THESE DRAWINGS.

4. WALKWAYS, SIDEWALKS, MOW STRIPS, ETC. SHALL BE POURED WITH SLIGHT SLOPE AND NO LOW SPOTS TO ENSURE THEY WILL DRAIN FREE.

PIPING NOTES

1. ALL NEW PIPING INSIDE CLARIFIER SHALL BE FLANGED DUCTILE IRON WITH D.I. FLANGED FITTINGS. PROVIDE ALL GASKETS REQUIRED.

2. ALL PIPING AND FITTINGS THROUGHOUT THE PROJECT SHALL BE CEMENT LINED DUCTILE IRON PRIMED WITH TNEMEC N140 PRIMER.

3. THE CONTRACTOR SHALL PROVIDE ALL PIPE HARDWARE (I.E. BOLTS, NUTS, WASHERS, GASKETS, ETC.) AS REQUIRED TO PROPERLY SECURE ALL PIPING.

4. CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED PIPING, TEES, FITTINGS, REDUCERS, INCREASERS, BUSHINGS, SPOOL PIECES, ETC. AS REQUIRED FOR A COMPLETE AND FUNCTIONAL PIPING SYSTEM INSTALLATION.

5. CONTRACTOR IS RESPONSIBLE FOR, IN A TIMELY MANNER, VERIFYING EXISTING LINE SIZES, MATERIAL, LOCATIONS, DEPTHS, AND DIMENSIONS PRIOR TO ORDERING MATERIALS FOR CONNECTIONS.

6. SEE PAINTING NOTE FOR PIPING IN PROJECT NOTES.

7. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STAINLESS PIPING, FITTINGS, REDUCERS, ETC. FOR A COMPLETE WATERLINE SHOULD BE MOUNTED SECURELY TO THE BRIDGE. CONTRACTOR SHALL PROVIDE ALL REQUIRED SUPPORTS, BRACKETS, ETC. AND HARDWARE. ALL BRACKETS AND HARDWARE SHALL BE STAINLESS STEEL.

SCHEDULING NOTES

PRE-SUBMITTAL CLARIFIER DOWNTIME NOTES:

1. PRIOR TO THE SUBMITTAL PROCESS OF THE CLARIFIER EQUIPMENT, THE CONTRACTOR SHALL STOP ALL FLOW INTO CLARIFIER #2 FIRST AND DRAIN THE CLARIFIER. CONTRACTOR SHALL CLEAN/PRESSURE WASH CLARIFIER WALLS AND FLOOR.

2. THE CONTRACTOR/CLARIFIER MANUFACTURER SHALL MEASURE/VERIFY ALL ELEVATIONS, DIMENSIONS, SIZES, LENGTHS, DIAMETER, ETC. OF THE EXISTING CLARIFIER WALLS, FLOOR, PIPING, ETC. AS REQUIRED FOR THE NEW CLARIFIER EQUIPMENT.

3. THE CONTRACTOR SHALL ALSO VERIFY THE CONDITION OF THE EXISTING CONCRETE/GROUT BOTTOM WITH THE ENGINEER.

4. THE CLARIFIER MAY ONLY BE OUT OF SERVICE FOR 3 (THREE) DAYS IN ORDER FOR CLEANING, MEASUREMENT, AND INSPECTIONS.

5. ONCE THE CLARIFIER #2 IS PUT BACK INTO SERVICE, IT SHALL BE OPERATING BEFORE TAKING CLARIFIER #1 OUT OF SERVICE.

6. THE CONTRACTOR SHALL STOP ALL FLOW INTO CLARIFIER #1 AND DRAIN THE CLARIFIER. CONTRACTOR SHALL CLEAN/PRESSURE WASH CLARIFIER WALLS AND FLOOR.

7. THE CONTRACTOR/CLARIFIER MANUFACTURER SHALL MEASURE/VERIFY ALL ELEVATIONS, DIMENSIONS, SIZES, LENGTHS, DIAMETER, ETC. OF THE EXISTING CLARIFIER WALLS, FLOOR, PIPING, ETC. AS REQUIRED FOR THE NEW CLARIFIER EQUIPMENT.

8. THE CONTRACTOR SHALL ALSO VERIFY THE CONDITION OF THE EXISTING CONCRETE/GROUT BOTTOM WITH THE ENGINEER.

9. THE CLARIFIER MAY ONLY BE OUT OF SERVICE FOR 3 (THREE) DAYS IN ORDER FOR CLEANING, MEASUREMENT, AND INSPECTIONS.

10. THE CONTRACTOR SHALL SUBMIT ALL MEASUREMENTS, DISTANCES, ETC. TO THE OWNER/ENGINEER AND CLARIFIER MANUFACTURER ONCE COMPLETE.

11. COORDINATE WITH THE OWNER/ENGINEER FOR TIMING OF ALL WORK.

NEW CLARIFIER EQUIPMENT INSTALLATION NOTES:

1. THE CONTRACTOR SHALL COMPLETE ALL IMPROVEMENTS TO CLARIFIER #2 FIRST. ONCE COMPLETE, CONTRACTOR SHALL COMPLETE IMPROVEMENTS TO CLARIFIER #1.

2. THE CONTRACTOR WILL NOT BE ALLOWED TO TAKE THE EXISTING CLARIFIER #2 OUT OF SERVICE PRIOR TO JUNE 1, 2022. THE CONTRACTOR SHALL BE COMPLETE WITH ALL WORK IN BOTH CLARIFIERS BY OCTOBER 31, 2022. COORDINATE WITH THE OWNER/ENGINEER FOR TIMING OF ALL WORK.

3. THE CONTRACTOR WILL NOT BE ALLOWED TO TAKE THE EXISTING CLARIFIER #2 OUT OF SERVICE FOR IMPROVEMENTS UNTIL 1 WEEK PRIOR TO THE EXPECTED EQUIPMENT DELIVERY DATE. THE CONTRACTOR SHALL PROVIDE THE FIRM EQUIPMENT DELIVERY DATE FROM THE CLARIFIER MANUFACTURER TO OWNER PRIOR TO TAKING CLARIFIER OUT OF SERVICE.

4. ONCE CLARIFIER #2 IS TAKEN OUT OF SERVICE FOR DEMOLITION, IT CAN NOT BE OUT OF SERVICE LONGER THAN 8 WEEKS (56 CALENDAR DAYS).

5. THE CONTRACTOR SHALL WORK EFFECTIVELY AND EFFICIENTLY TO COMPLETE THE CLARIFIER INSTALLATION WITHIN THIS TIMEFRAME.

6. THE 8 WEEK TIME FRAME INCLUDES, BUT IS NOT LIMITED TO, ALL DEMOLITION, INSTALLATION, TESTING, AND THE 10 DAY RUN IN PERIOD FOR CLARIFIER ACCEPTANCE.

7. ONCE CLARIFIER #2 IS ACCEPTED, CONTRACTOR SHALL COMPLETE IMPROVEMENTS TO CLARIFIER #1.

8. ONCE CLARIFIER #1 IS TAKEN OUT OF SERVICE FOR DEMOLITION, IT CAN NOT BE OUT OF SERVICE LONGER THAN 8 WEEKS (56 CALENDAR DAYS).

9. THE CONTRACTOR SHALL WORK EFFECTIVELY AND EFFICIENTLY TO COMPLETE THE CLARIFIER INSTALLATION WITHIN THIS TIMEFRAME.

10. THE 8 WEEK TIME FRAME INCLUDES, BUT IS NOT LIMITED TO, ALL DEMOLITION, INSTALLATION, TESTING, AND THE 10 DAY RUN IN PERIOD FOR CLARIFIER ACCEPTANCE.

11. ALL WORK IN BOTH CLARIFIERS SHALL BE COMPLETE BY OCTOBER 31, 2022

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TOWN CREEK

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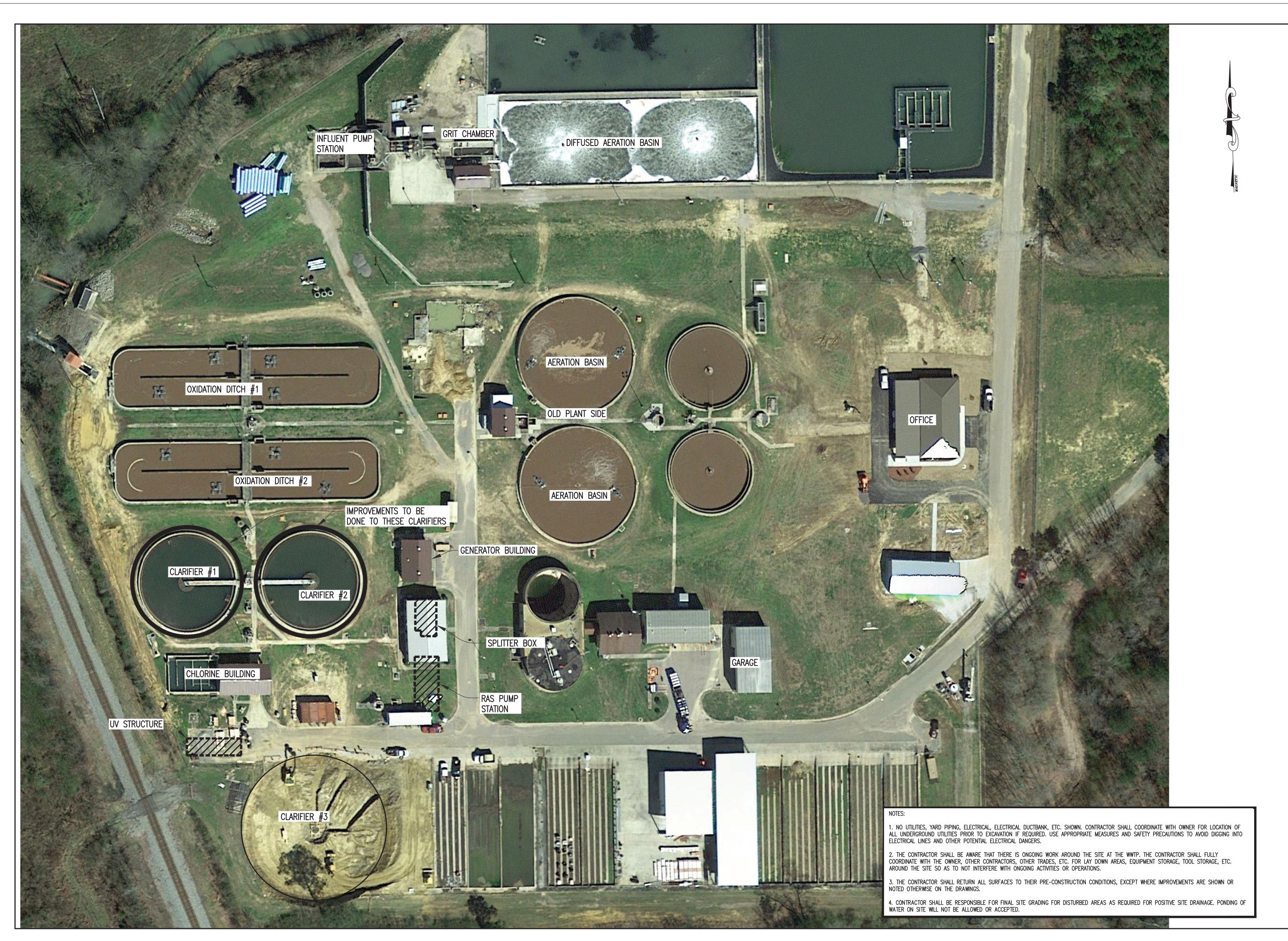
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PROJECT NOTES

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Municipal Consultant

PER WATER & SEWER BOARD

TOWN CREEK WWTP CLARIFIER #1 AND #2 IMPROVE

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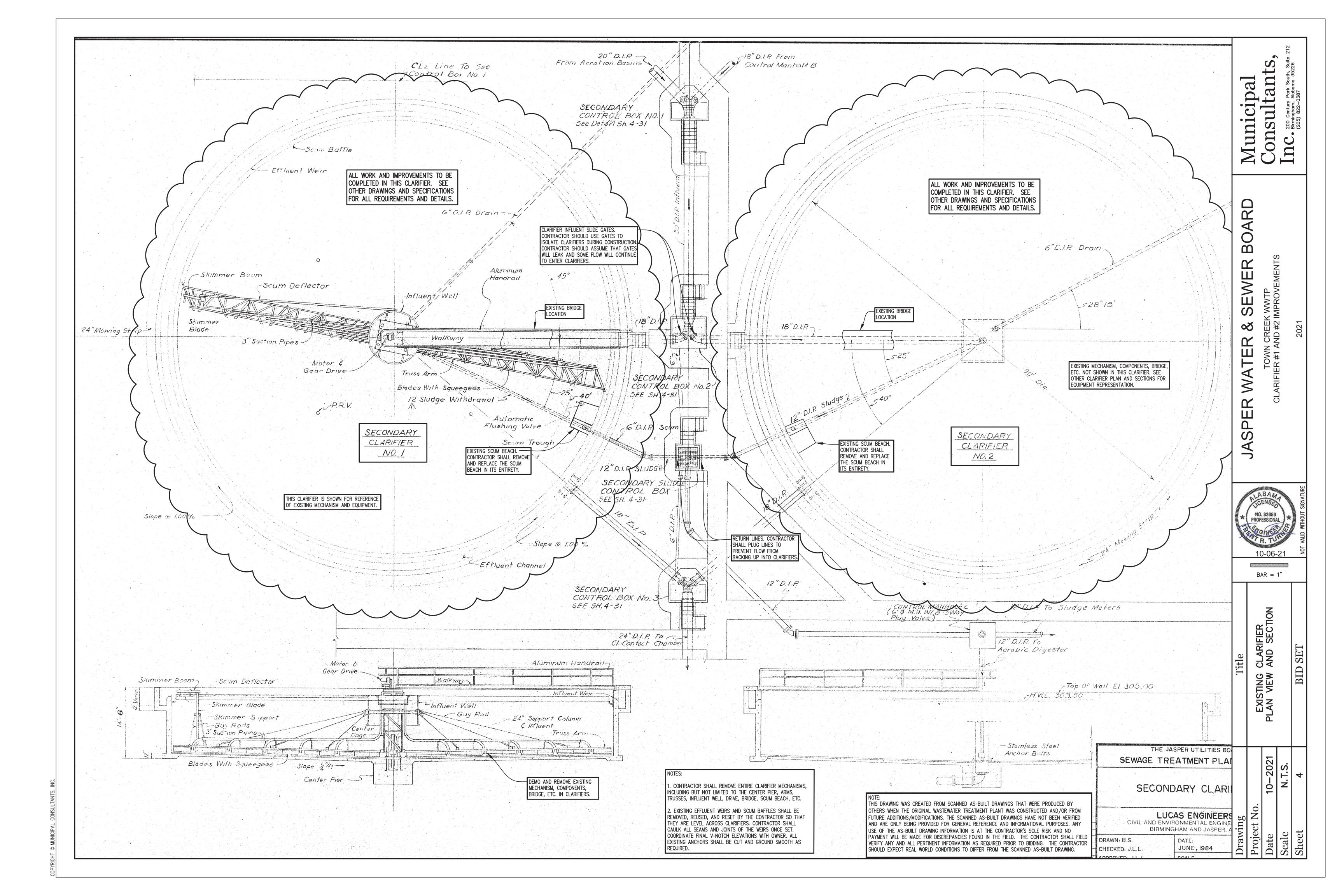
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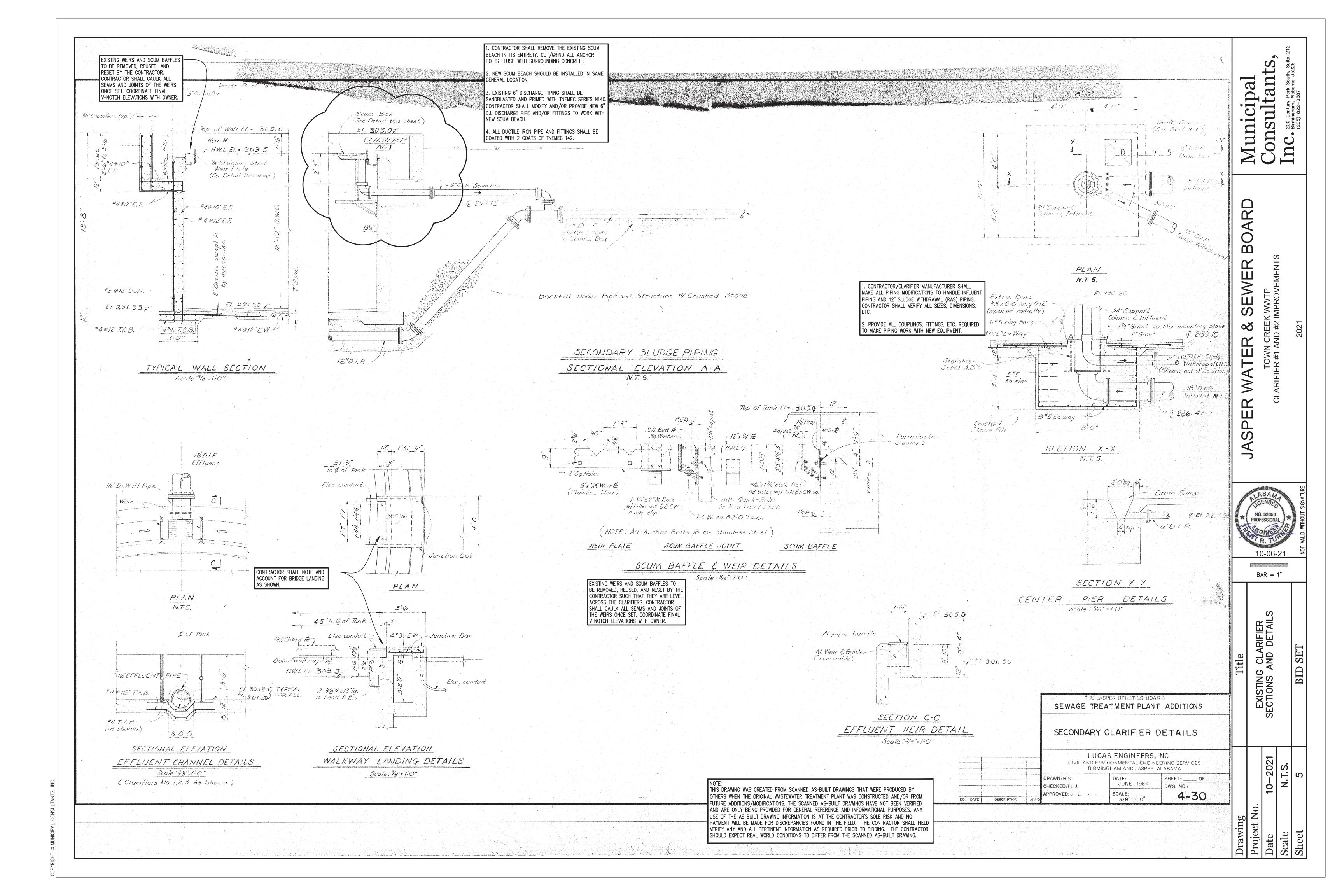
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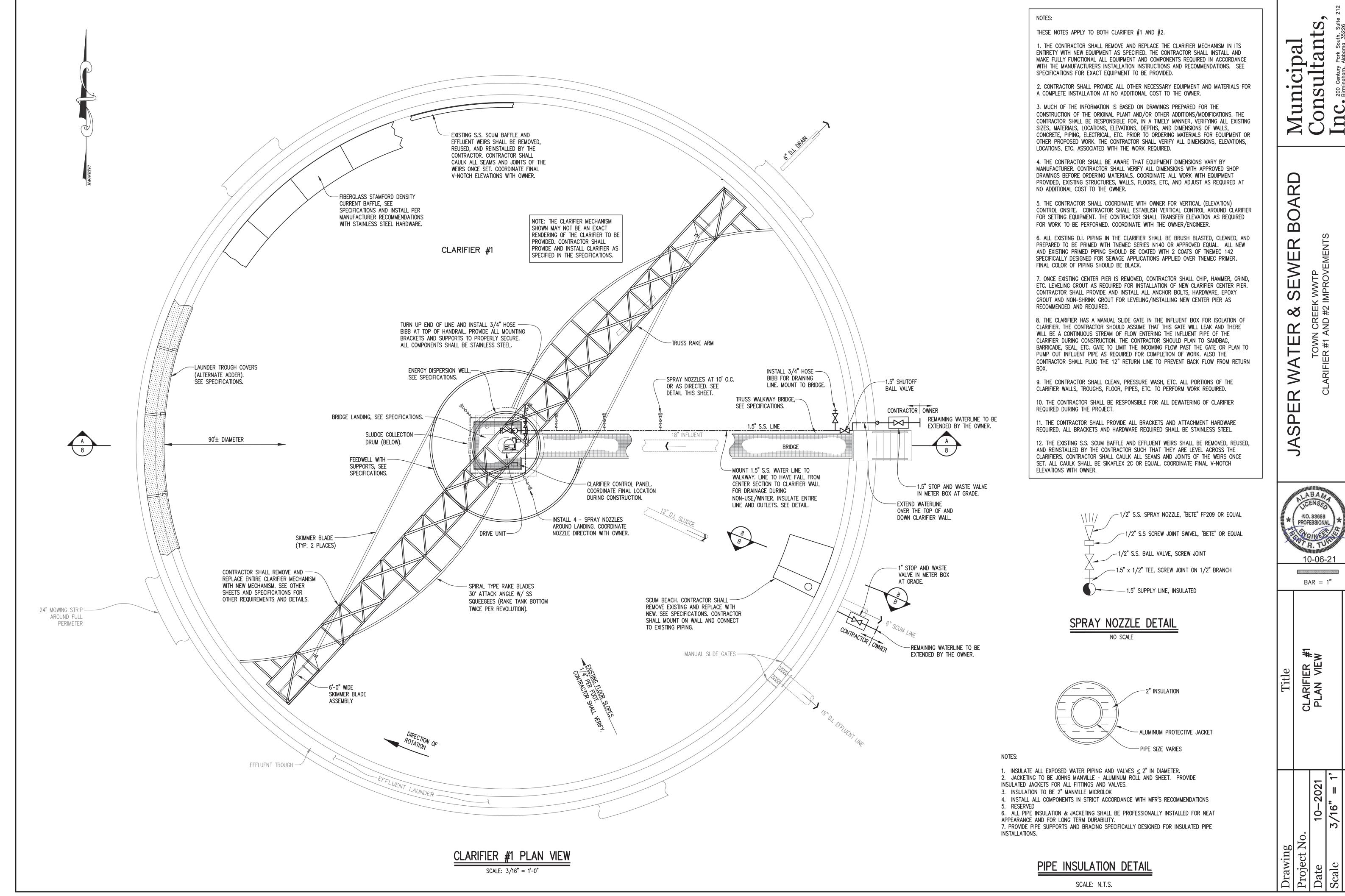
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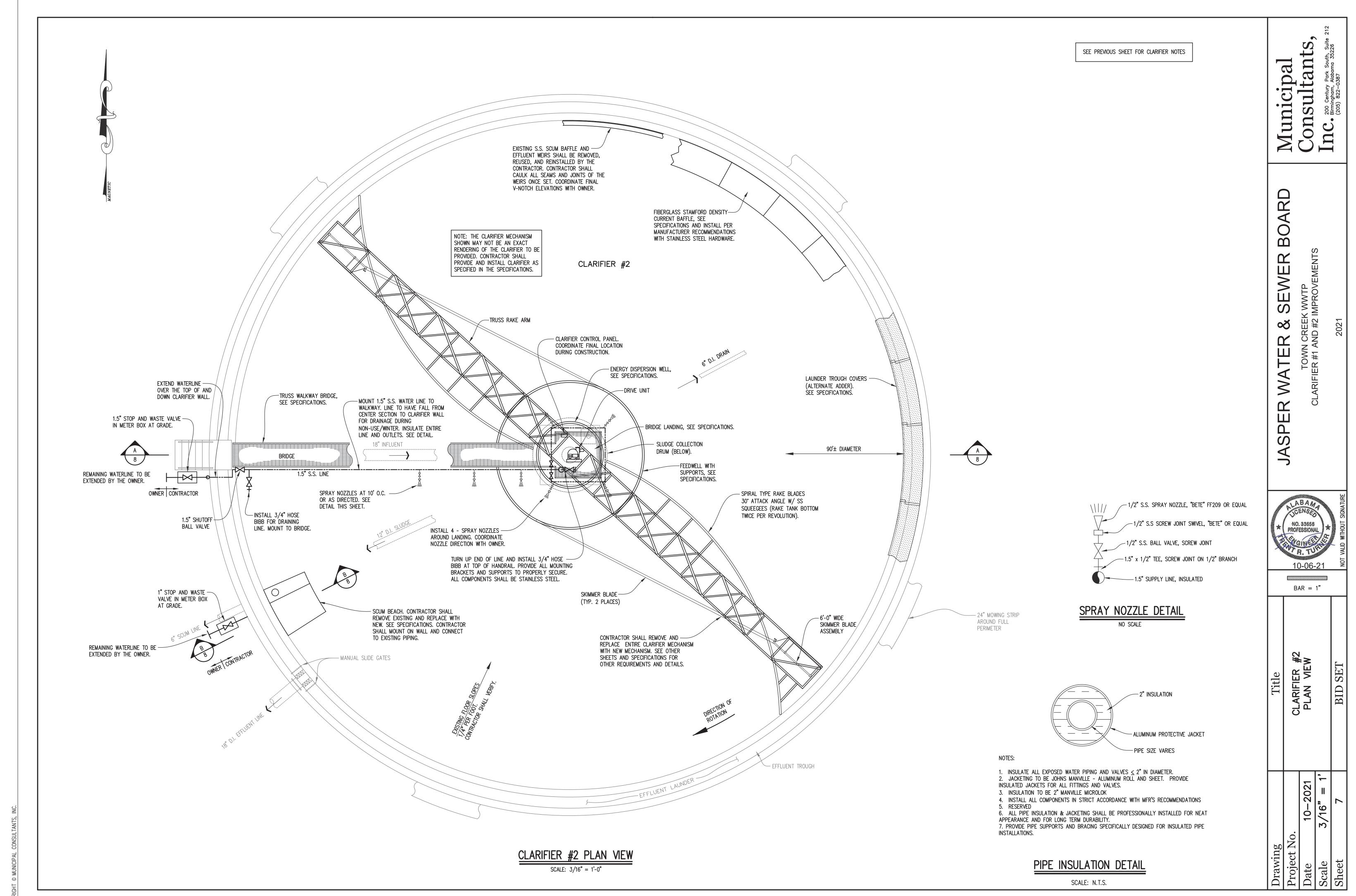
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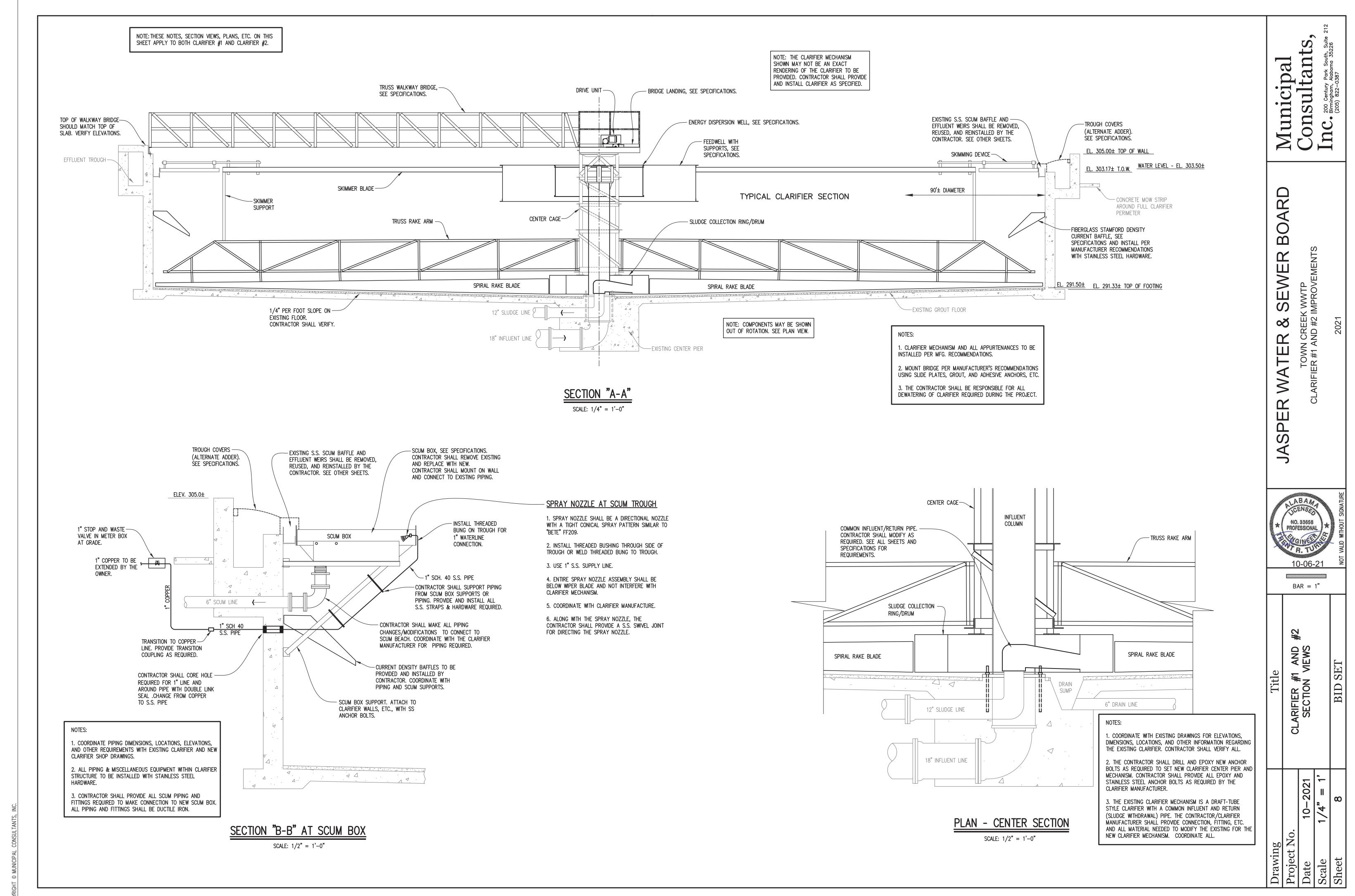
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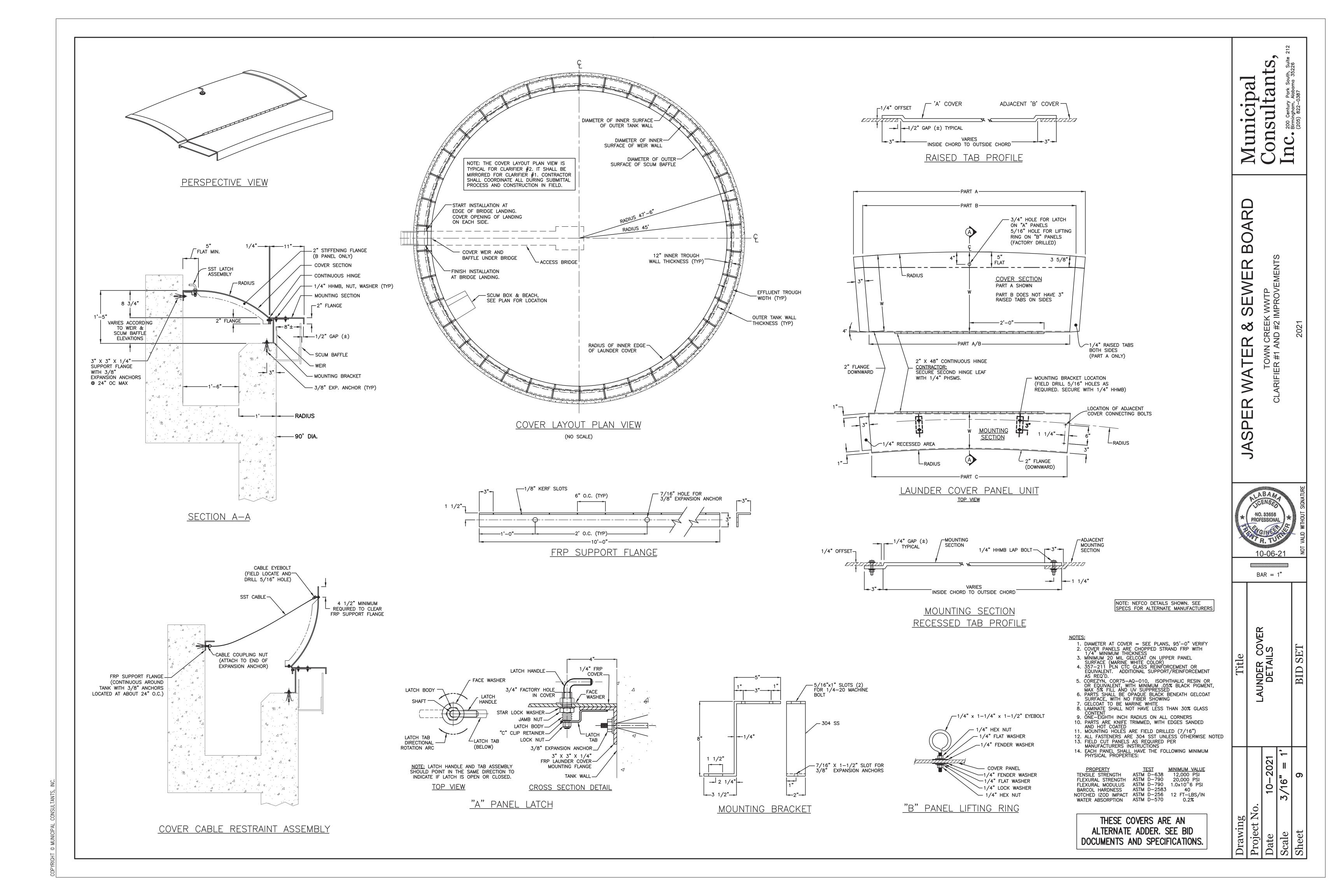


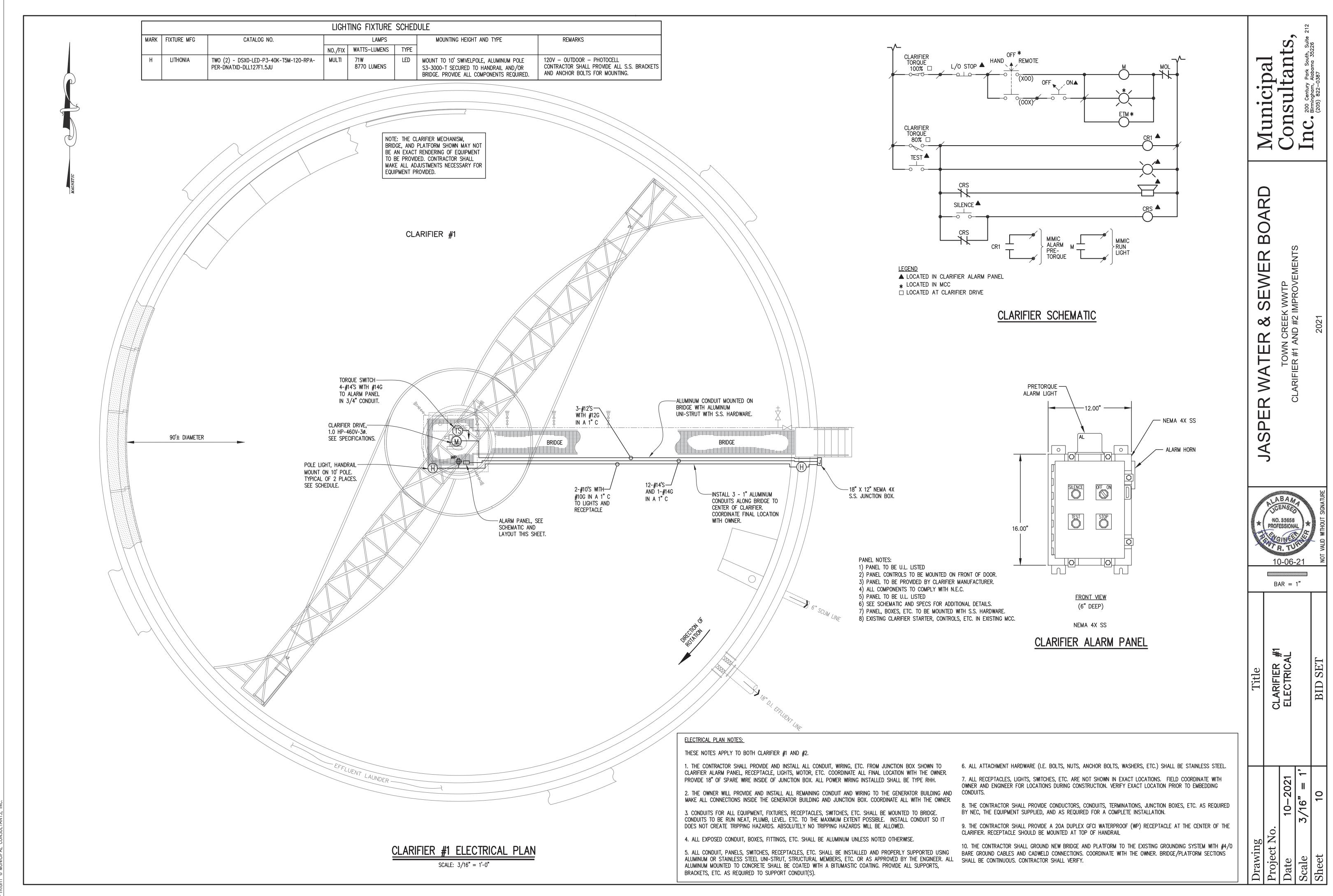












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