THE CITY OF PELHAM, ALABAMA WWTP IMPROVEMENTS

INSTALLATION OF GRIT & GREASE REMOVAL EQUIPMENT

SHEET NO. DRAWING TITLE:

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- 14. REVERE SUBMITTAL EXCERPT MCC-2 DRAWINGS (PARTIAL)

FEBRUARY 2023

Municipal Consultants, Inc. Birmingham, Alabama

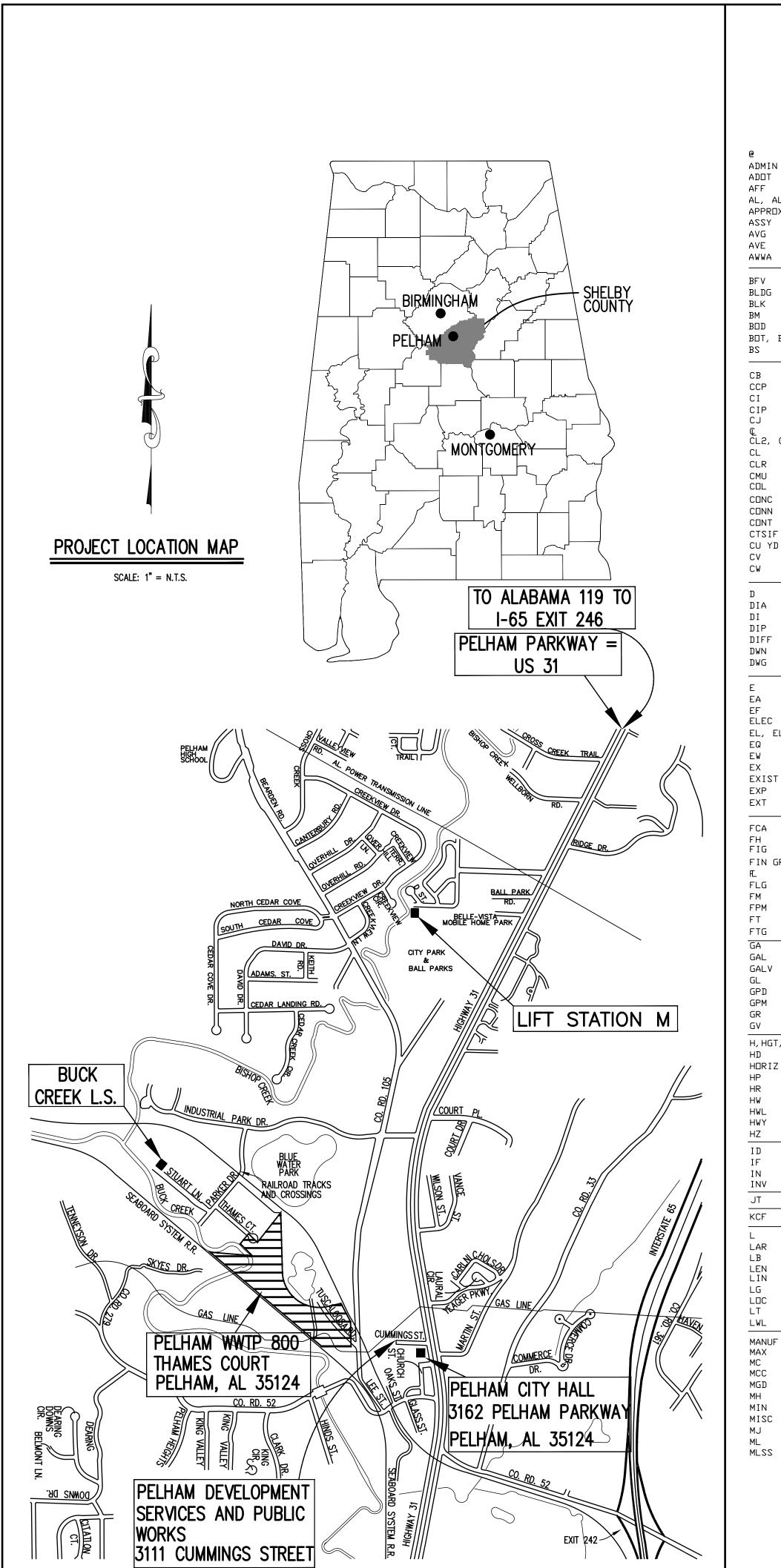
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3-1-2023

BID SET



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ADMIN	ADMINISTRATION	NIC	NOT IN CONTR
ADOT AFF	ALABAMA DEPT. OF TRANSPORTATION ABOVE FINISHED FLOOR	N□. , # N□M	NUMBER NDMINAL
AL, ALUM	ALUMINUM	NORM	NORMAL
APPROX ASSY	APPROXIMATE ASSEMBLY	NPW NTS	NON POTABLE NOT TO SCALE
AVG	AVERAGE	NWL	NORMAL WATER
AVE AWWA	AVENUE AMERICAN WATER WORKS ASSOCIATION	ПС	ON CENTER
		OD OF	DUTSIDE DIAM
BFV BLDG	BUTTERFLY VALVE BUILDING	ΠZ	DUNCE
BLK	BLOCK	PE PEJ	PLAIN END PIPE EXPANSII
BM B□D	BENCHMARK BIOCHEMICAL OXYGEN DEMAND	PH	PHASE
B□T, BTM		PI PL, PLS	PDINT OF INTI PLACES
BS	BOTH SIDES	PL	PLATE
СВ	CATCH BASIN	PM PO	PROCESS MAIN PUSH ON
CCP CI	CONCRETE CULVERT PIPE CAST IRON	PP PPD	POWER POLE POUNDS PER DA
CIP	CAST IRON PIPE	PRESS	PRESSURE
€ CJ	CONSTRUCTION JOINT CENTER LINE	PRV	PRESSURE REDI
CL2, C	CHLORINE	PR□P PSI	PROPOSED POUNDS PER SO
CL CLR	CLASS CLEAR	PV	PLUG VALVE
CMU	CONCRETE MASONRY UNIT'	PVC	POLYVINYL CH
	CDLUMN CDNCRETE	RAS P PAD	RETURN ACTIV
CONN	CONNECTION	R, RAD RCP	RADIUS REINFORCED C
CONT CTSIF	CONTINUOUS CUT TO SUIT IN FIELD	RED	REDUCER
CU YD	CUBIC YARD	REINF REQD	REINFORCING REQUIRED
CV	CHECK VALVE	RJ	RESTRAINED J
	CULD WAILN	R□W, R/W RT	RIGHT-OF-WAY RIGHT
D	DOOR	S	SOUTH, SLUDG
DIA DI	DIAMETER DUCTILE IRON	SCFM	STANDARD CUB
DIP	DUCTILE IRON PIPE	SCH SECT	SCHEDULE SECTION
DIFF DWN	DIFFUSER DOWN	SF SHT	SQUARE FEET SHEET
DWG	DRAWING	NIS	SIMILAR
E	EAST, EXHAUSTER	SL SP	SURVEY LINE STATIC PRESS
EA	EACH	SPD	STANDARD PRO
EF ELEC	EACH FACE ELECTRICAL	SPECS SQ	SPECIFICATION SQUARE
EL, ELEV	ELEVATION	SRT	SULIDS RETEN
EQ EW	EQUAL EACH WAY, EFFLUENT WATER	22 T2	SANITARY SEW
EX	EXISTING	STA	STREET, STOR
	EXISTING EXPANSION	STD	STANDARD
EXT	EXTINGUISHER	22 21 21 °C '22	STAINLESS ST SANITARY SEW
	ELANCED COURT INC. ADAPTED	SMD	SIDE WATER D
FCA FH	FLANGED COUPLING ADAPTER FIRE HYDRANT	T&B	TOP AND BOTT
FIG	FIGURE	TBM	TEMPORARY BE
FIN GR FL	FINISH GRADE FLOW LINE	TC TEMP	THRUST COLLA
FLG	FLANGED	THK	THICKNESS
FM FPM	FORCE MAIN FEET PER MINUTE	TL	TRANSFER LIN
FT	FOOT	TOC Tow	TOP OF CURB
FTG GA	FOOTING GAUGE, GAGE	TYP	TYPICAL
GAL	GALLON(S)	UH LIND	UNIT HEATER
GALV	GALVANIZED	UND ————————————————————————————————————	UNLESS NOTED
GL GPD	GAS LINE GALLONS PER DAY	٧	VALVE, VENTI
GPM	GALLONS PER MINUTE	VC VERT	VITRIFIED CL VERTICAL
GR GV	GRADE GATE VALVE	VICT	VICTAULIC
H, HGT, HT	HEIGHT	VT	VENTILATOR
HD	HOT DIPPED	W W/	WEST, WIDTH, WITH
HDRIZ HP	HORIZONTAL HORSEPOWER	W/□	WITHOUT
HR	HOUR	WAS WC	WASTE ACTIVA
HW HWL	HDT WATER HIGH WATER LEVEL	WL	WATER LINE,
HWY HZ	HIGHWAY	WS WTM	WATERSTOP WATER TRANSM
	INSIDE DIAMETER	WWF WTP	WELDED WIRE
ID IF	INSIDE DIAMETER INSIDE FACE	WIP	WATER TREATM WASTEWATER T
IN INV	INCHES INVERT		
JT	JOINT	X	BY
KCF	THOUSAND CUBIC FEET		
L LAR	LOUVER LENGTH AS REQUIRED		
LB	POUND		
LEN LIN	LEFT LINEAL, LINEAR		
LG LDC	LONG LOCATION		
LOC LT	LUCATION LEFT		
LWL	LOW WATER LEVEL		
MANUF	MANUFACTURER		
NA /\ \	MAXIMUM		
MAX MC	MOTOR CONTROL		

MIXED LIQUOR SUSPENDED SOLIDS

MANHOLE

MINIMUM

MISCELLANEOUS

MIXED LIQUOR

MECHANICAL JOINT

NON POTABLE WATER

DUTSIDE DIAMETER DUTSIDE FACE

PIPE EXPANSION JOINT

POINT OF INTERSECTION

PRESSURE REDUCING VALVE

POUNDS PER SQUARE INCH

RETURN ACTIVATED SLUDGE

REINFORCED CONCRETE PIPE

STANDARD PROCTOR DENSITY

SOLIDS RETENTION TIME

POLYVINYL CHLORIDE

NOT TO SCALE NORMAL WATER LEVEL

TEMPORARY BENCHMARK

TEMPORARY, TEMPERED

UNLESS NOTED OTHERWISE

VALVE, VENTILATOR, VOLTS

WEST, WIDTH, WINDOW, WATER

WASTE ACTIVATED SLUDGE

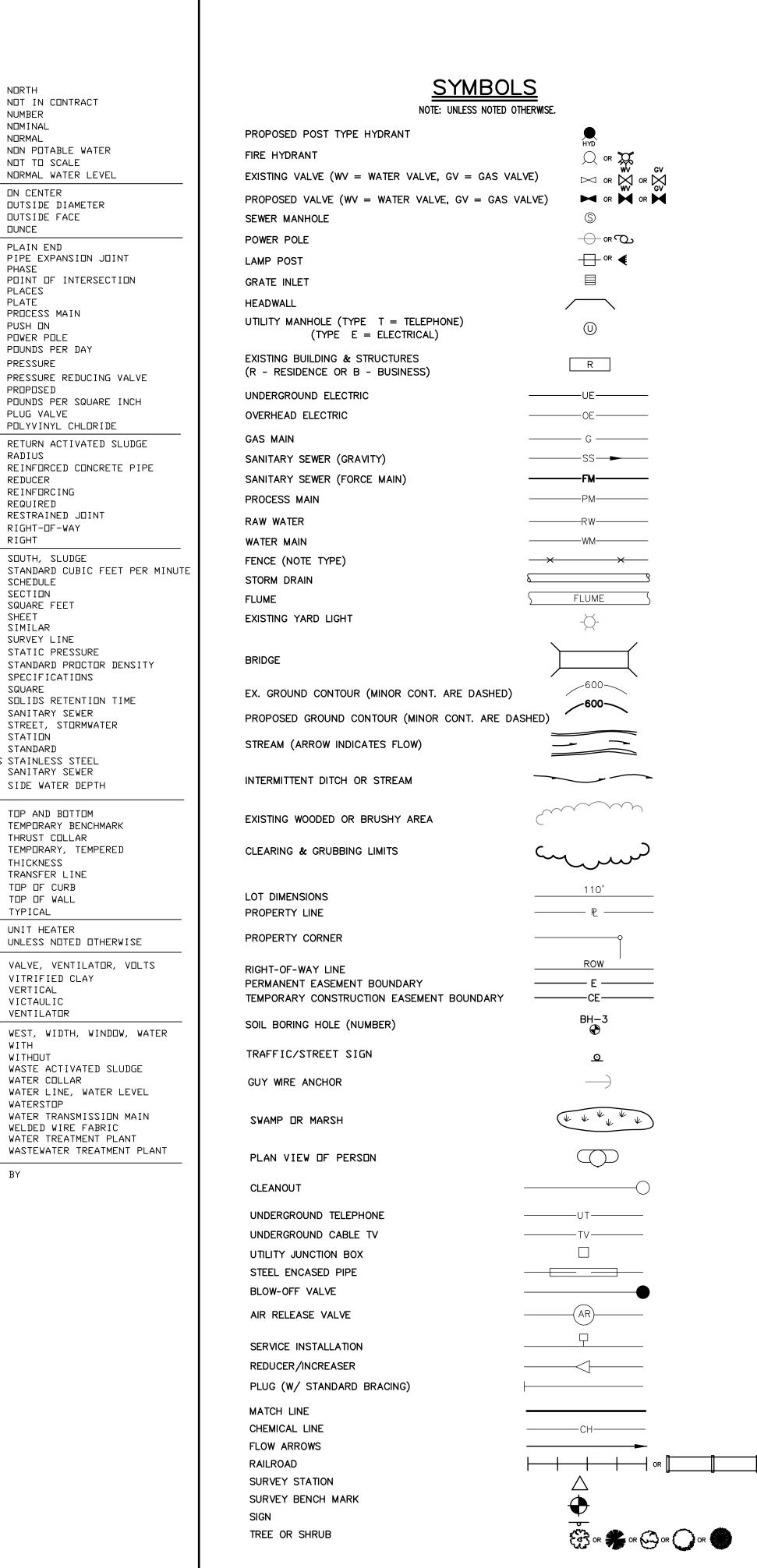
WATER LINE, WATER LEVEL

WATER TRANSMISSION MAIN

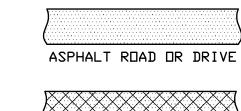
WASTEWATER TREATMENT PLANT

WELDED WIRE FABRIC WATER TREATMENT PLANT

STREET, STORMWATER



SYMBOLS NOTE: UNLESS NOTED OTHERWISE



PAVED ROAD WITH CURB AND GUTTER (DRAINAGE INLET SHOWN)

EXISTING ASPHALT PAVING TO

BE REMOVED AND REPLACED

CONCRETE ROAD OR DRIVE

UNIMPROVED ROAD OR DRIVE



SECTION AND DETAIL MARKS

SECTION REFERENCE BETWEEN PAGES

SHEET ON WHICH
—SECTION APPEARS
OR IS FROM

SECTION REFERENCE SAME PAGE

DETAIL MARK BETWEEN PAGES SHEET ON WHICH
—SECTION APPEARS
OR IS FROM

DETAIL MARK SAME PAGE

NOTE: DETAILS ALSO REFERENCED BY NAME OR IDENTIFYING MARE SUCH AS "TYPICAL OR "TYP"

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Municipal
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Inc. 200 Century Pork South, Suite 212
(1905) Birmingham, Alabama 35226

ALABAM

PELHAM,

NOTES, LEGEND LOCATION MAP

GENERAL AND

1. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR SAFETY. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR SAFETY. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA STANDARDS AND RECOMMENDATIONS, ETC., APPLICABLE TO ALL WORK AND COMPONENTS ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL CONTINUOUSLY UTILIZE SAFETY PRACTICES THAT MAY BE NEEDED FOR THE FULL PROTECTION OF ALL PERSONS INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION PERSONNEL, THE OWNER'S PERSONNEL, INSPECTORS, AND THE GENERAL PUBLIC, ETC.

2. WASTEWATER TREATMENT PLANTS CONTAIN MANY DANGERS AND SAFETY HAZARDS. THESE INCLUDE, <u>BUT ARE BY NO MEANS LIMITED TO</u>, SUCH DANGERS AS CONFINED SPACES, DEADLY ATMOSPHERES WITH DANGEROUSLY LOW OXYGEN LEVELS, TOXIC AND EXPLOSIVE GASES, ETC., POTENTIALLY HAZARDOUS (POISONOUS) GASES AND CHEMICALS STORED AND USED ONSITE, SEWAGE AND SLUDGE WITH PATHOGENS (INFECTIOUS DISEASE HAZARDS), NON-POTABLE WATER SYSTEMS, ELECTRICAL HAZARDS, FALLING HAZARDS, DROWNING HAZARDS, UNANTICIPATED EQUIPMENT STARTING, AND TRENCH DANGERS, AMONG MANY OTHERS. NOTE THAT POWER IN A PANEL, AN ENCLOSURE, OR AT EQUIPMENT, ETC., MAY ORIGINATE FROM MULTIPLE, DIFFERENT AND INDEPENDENT SOURCES.

THIS PLANT CONTAINS MOVING EQUIPMENT AND ROTATING EQUIPMENT. SUCH EQUIPMENT MAY BEGIN MOVING OR ROTATING SILENTLY AND MAY BEGIN OPERATION AUTOMATICALLY WITHOUT ANY WARNING. THE CONTRACTOR SHALL ALWAYS UTILIZE PROPER SAFETY PROCEDURES WHENEVER ANY WORK IS BEING PERFORMED NEAR PLANT EQUIPMENT AND WHENEVER ANY PERSONNEL ARE IN THE VICINITY OF PLANT EQUIPMENT. THESE SAME SAFETY PRECAUTIONS SHOULD BE UTILIZED REGARDLESS OF WHETHER THE EQUIPMENT IS OPERATING OR NOT AS THERE IS ALWAYS THE POTENTIAL FOR THE EQUIPMENT TO BEGIN OPERATION. THE CONTRACTOR SHALL HAVE A THOROUGH UNDERSTANDING OF ALL THE DANGERS AND HAZARDS ASSOCIATED WITH THIS TYPE OF WORK. THIS SHALL INCLUDE ALL ADDITIONAL POTENTIAL DANGERS NOT LISTED HEREIN. IT SHALL BE THE RESPONSIBILITY SOLELY OF THE CONTRACTOR TO FULLY EDUCATE HIMSELF AND ALL HIS PERSONNEL, SUBCONTRACTORS, SUPPLIERS, AND ALL OTHER VISITORS, ETC., REGARDING ALL THE POTENTIAL HAZARDS. THE CONTRACTOR SHALL FULLY UNDERSTAND ALL THE POSSIBLE HAZARDS AND SHALL CONTINUOUSLY FOLLOW APPROPRIATE SAFETY PROCEDURES AT ALL TIMES. THE CONTRACTOR SHALL INSURE THAT ALL HIS PERSONNEL AND ALL SUBCONTRACTOR PERSONNEL, SUPPLIERS, ETC., FOLLOW ALL APPROPRIATE SAFETY PRECAUTIONS AT ALL TIMES, CONTINUOUSLY COMPLY WITH ALL OSHA REGULATIONS AND REQUIREMENTS, ETC. AND ALWAYS FOLLOW GOOD, EFFECTIVE SAFETY PRACTICES.

THE CONTRACTOR SHALL BE AWARE THAT THIS IS AN OPERATING FACILITY AND THAT PLANT PERSONNEL MUST MAKE THEIR ROUNDS AND WORK THROUGH ALL AREAS AND BUILDINGS IN THE PLANT AT ANY TIME DURING THE DAY OR NIGHT. AS SUCH, THE CONTRACTOR MUST CAREFULLY PLAN HIS ACTIVITIES AND ALWAYS PROVIDE ADEQUATE SAFETY BARRIERS AND OTHER MEASURES AS DESIRABLE, ETC., TO CONTINUOUSLY PROTECT PLANT PERSONNEL AND VISITORS, AS WELL AS HIS OWN PERSONNEL.

IT IS IMPOSSIBLE TO LIST ALL POTENTIAL DANGERS THAT A CONTRACTOR MAY INCUR DURING THE CONSTRUCTION OF A PROJECT. IT IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR TO IDENTIFY ALL POTENTIAL DANGERS AND TO ALWAYS TAKE ALL APPROPRIATE SAFETY MEASURES. SAFETY IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR.

3. THE CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES FOR SAFETY, INCLUDING BUT BY NO MEANS LIMITED TO, GUARDRAILS, BARRIERS, LIGHTING, AND SIGNS, ETC., AS DESIRABLE FOR THE PROTECTION OF THE PLANT VISITORS AND PERSONNEL WHO MUST OPERATE AND MAINTAIN THE PLANT THROUGHOUT THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM HIS WORK AND MAINTAIN CLEAN AND CLEAR PASSAGES IN A MANNER TO ELIMINATE TRIPPING HAZARDS AND OTHER SAFETY HAZARDS DURING CONSTRUCTION TO THE GREATEST EXTENT POSSIBLE.

4. WWTPS HAVE MANY HAZARDS FROM WHICH THE GENERAL PUBLIC MUST BE PROTECTED. THE CONTRACTOR SHALL PERFORM AND COORDINATE HIS WORK TO MAINTAIN THE WWTP SECURITY. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, MAINTAINING SECURE FENCING AROUND THE ENTIRE SITE AT ALL TIMES. TEMPORARY FENCING THAT MAINTAINS PLANT SECURITY SHALL BE PROVIDED IF THE EXISTING FENCE IS REMOVED. THE CONTRACTOR SHALL TAKE MEASURES AS APPLICABLE TO MAINTAIN A SECURE SITE AT ALL TIMES, WHETHER OR NOT WORK IS ONGOING. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURELY CLOSING THE PLANT ENTRANCE GATE WHEN HE LEAVES THE SITE AT THE END OF HIS WORKING DAY.

5. THE EXISTING CONDUIT AND ELECTRICAL LINE LOCATIONS AND DEPTHS ARE NOT KNOWN AND GENERALLY ARE NOT SHOWN. SOME PULLBOXES ARE SHOWN. IN SOME CASES, THE ASSUMED ROUTING OF WIRING, CONDUITS, OR DUCT BANKS ENTERING OR LEAVING THE PULL BOXES MAY BE SHOWN. THE CONTRACTOR SHALL CONDUCT HIS WORK CAREFULLY AND COORDINATE WITH THE WWTP STAFF. HOWEVER, THE STAFF DOES NOT KNOW THE EXACT LOCATION OR DEPTH OF THESE LINES. THE CONTRACTOR SHALL COORDINATE HIS EXCAVATION ACTIVITY IN THE VICINITY OF SUSPECTED OR POSSIBLE ELECTRICAL FACILITIES WITH THE WWTP SUPERINTENDENT. PERFORM EXPLORATORY EXCAVATION CAREFULLY AND IN A TIMELY MANNER SO THAT THE PRESENCE, LOCATION, AND DEPTH OF BURIED ELECTRICAL LINES AND DUCT BANKS AND OTHER BURIED UTILITIES CAN BE DETERMINED IN A TIMELY MANNER SO AS TO NOT DELAY CONSTRUCTION. THE DUCTBANK LOCATIONS SHOWN ARE APPROXIMATE AND GENERAL IN NATURE.

6. MUCH INFORMATION IN THESE DRAWINGS ARE BASED ON DRAWINGS PREPARED FOR THE CONSTRUCTION OF THE ORIGINAL PLANT AND MULTIPLE MODIFICATION PROJECTS. MUCH OF THIS INFORMATION HAS NOT BEEN OR CANNOT BE VERIFIED.

7. THE CONTRACTOR SHOULD ANTICIPATE THAT EXISTING VALVES AND GATES OR OTHER FLOW CONTROL STRUCTURES OR DEVICES WILL LEAK. SOME SLIDE GATES MAY BE INOPERABLE OR DIFFICULT TO OPERAT

8. THIS PROJECT REQUIRES WORK IN AND CONNECTIONS TO AN EXISTING, OPERATING 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 ALL OTHER INTERRUPTIONS DURING SUITABLE PERIODS, THOROUGHLY PLANNING WORK ACTIVITIES TO MINIMIZE INTERRUPTIONS OF NORMAL OPERATIONS, MAINTAINING PLANT SAFETY AT ALL TIMES FOR THE PLANT OPERATIONS AND MAINTENANCE STAFF, AND LEAKING GATES AND VALVES, ETC. SOME ACTIVITIES MAY BE BEST PERFORMED DURING THE EARLY MORNING HOURS OF DRY WEATHER IF THE OWNER ALLOWS WORK TO BE PERFORMED DURING NORMAL QUIET HOURS. THE OWNER SHALL HAVE THE AUTHORITY TO MAKE THE FINAL DECISION AS TO WHETHER OR NOT TIE-INS AND INTERRUPTIONS CAN BE ALLOWED AT THE TIME REQUESTED BY THE CONTRACTOR.

9. ALL WORK ACTIVITIES (INCLUDING ELECTRICAL) THAT AFFECT PLANT OPERATIONS MUST BE CAREFULLY SEQUENCED WITH THE EXISTING PLANT OPERATIONS. THESE SHALL BE CAREFULLY PLANNED AND COORDINATED WELL IN ADVANCE WITH BOTH THE OWNER AND THE ENGINEER TO RESULT IN A MINIMUM OF INTERFERENCE WITH THE EXISTING OPERATIONS. THE CONTRACTOR SHALL SUBMIT A STEP-BY-STEP DETAILED, WRITTEN SEQUENCE FOR EACH SUCH OPERATION. THE CONTRACTOR SHALL PERFORM AS MUCH PRELIMINARY OR ASSEMBLY WORK AS POSSIBLE PRIOR TO INITIATING OPERATIONS REQUIRING SEQUENCING OR INTERRUPTIONS, ETC.. THE CONTRACTOR SHALL ALWAYS HAVE STANDBY EQUIPMENT ON SITE SUCH THAT THE LOSS OF INDIVIDUAL EQUIPMENT WILL NOT PREVENT THE COMPLETION OF SUCH CONNECTIONS, ETC, IN A TIMELY MANNER IN ACCORDANCE WITH THE ALLOWED DURATION OF INTERRUPTION. THE CONTRACTOR SHALL HAVE SPARE MATERIALS ON SITE TO ALLOW FOR POTENTIAL PROBLEMS. & UNKNOWNS. ETC.

10. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL FINES AND COSTS, ETC., DUE TO BYPASSING OR INADEQUATE TREATMENT, OR PERMIT VIOLATIONS, ETC., THAT ARE DUE TO THE CONTRACTOR'S OPERATIONS. NOTE THAT RUNOFF, DISCHARGES, OR OVERFLOWS FROM THE PROJECT SITE ENTER A SMALL, ENVIRONMENTALLY SENSITIVE STREAM THAT FLOWS THROUGH A PUBLIC PARK.

11. ONCE TIE-INS OR OTHER ACTIVITIES INTERRUPT NORMAL PLANT OPERATION, WORK EXPEDITIOUSLY TO COMPLETE THE WORK AND RETURN THE PLANT TO NORMAL OPERATIONS AS SOON AS POSSIBLE.

12. BLASTING IS NOT ALLOWED ON THIS PROJECT. ALL ROCK MUST BE REMOVED BY A MEANS SUCH THAT THERE IS NO RISK OF DAMAGE TO PIPING, TANKS, STRUCTURES, AND EQUIPMENT, ETC.

13. WHERE EXISTING PAVING OR CONCRETE MUST BE CUT TO INSTALL NEW PIPING, ELECTRICAL, OR OTHER FACILITIES, SAWCUT THE EXISTING IN NEAT, STRAIGHT LINES. BACKFILL WITH PUGMIX COMPACTED IN LIFTS. CONTINUOUSLY MAINTAIN THE BACKFILL FLUSH WITH THE ADJOINING SURFACES UNTIL PAVED OR CONCRETED. RE-SAWCUT IN STRAIGHT LINE IMMEDIATELY PRIOR TO PATCHING. PATCHING SHALL BE SMOOTH AND FLUSH WITH ADJOINING PAVEMENT. GENERALLY, REPAVING OR CONCRETE REPLACEMENT SHOULD BE PERFORMED NO LATER THAN 2 TO 3 WEEKS.

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

15. ALL ANCHOR BOLTS, WEDGE ANCHORS, EPOXY ANCHORS, ETC. AND APPURTENANCES ON THE PROJECT SHALL BE STAINLESS STEEL.

16. KEEP THE ELECTRICAL POWER TO ALL NEW EQUIPMENT SHUTOFF AND PADLOCKED OFF (WITH THE CONTRACTOR'S LOCK) UNTIL IT HAS BEEN STARTED UP, TESTED, AND TURNED OVER TO THE OWNER FOR NORMAL OPERATION.

17. AFTER THE STARTUP OF ANY PLANT COMPONENTS, PREVENT ANY CONSTRUCTION RELATED ACTIVITY OR DEBRIS FROM GETTING INTO THE FLOWSTREAM AND DAMAGING EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY THE OWNER DUE TO SUCH PROBLEMS.

18. WHEN AN ITEM OF WORK (INCLUDING BUT NOT LIMITED TO DEMOLITION) RESULTS IN OR REQUIRES REMOVING WATER FROM EXISTING STRUCTURES OR EXISTING PIPING, SUCH WATER SHALL NOT BE PUMPED TO, OR ALLOWED TO DRAIN TO, A DRAINAGE DITCH OR STREAM. INSTEAD, SUCH WATER SHALL BE PUMPED INTO ONE OF THE OXIDATION DITCHES. PERFORM WORK IN A MANNER SUCH THAT DIRT OR MUD IS NOT PUMPED INTO THE OXIDATION DITCHES.

19. SEE SCHEDULE REQUIREMENTS IN SPECIFICATION FOR INSTALLATION OF GRIT & GREASE REMOVAL EQUIPMENT.

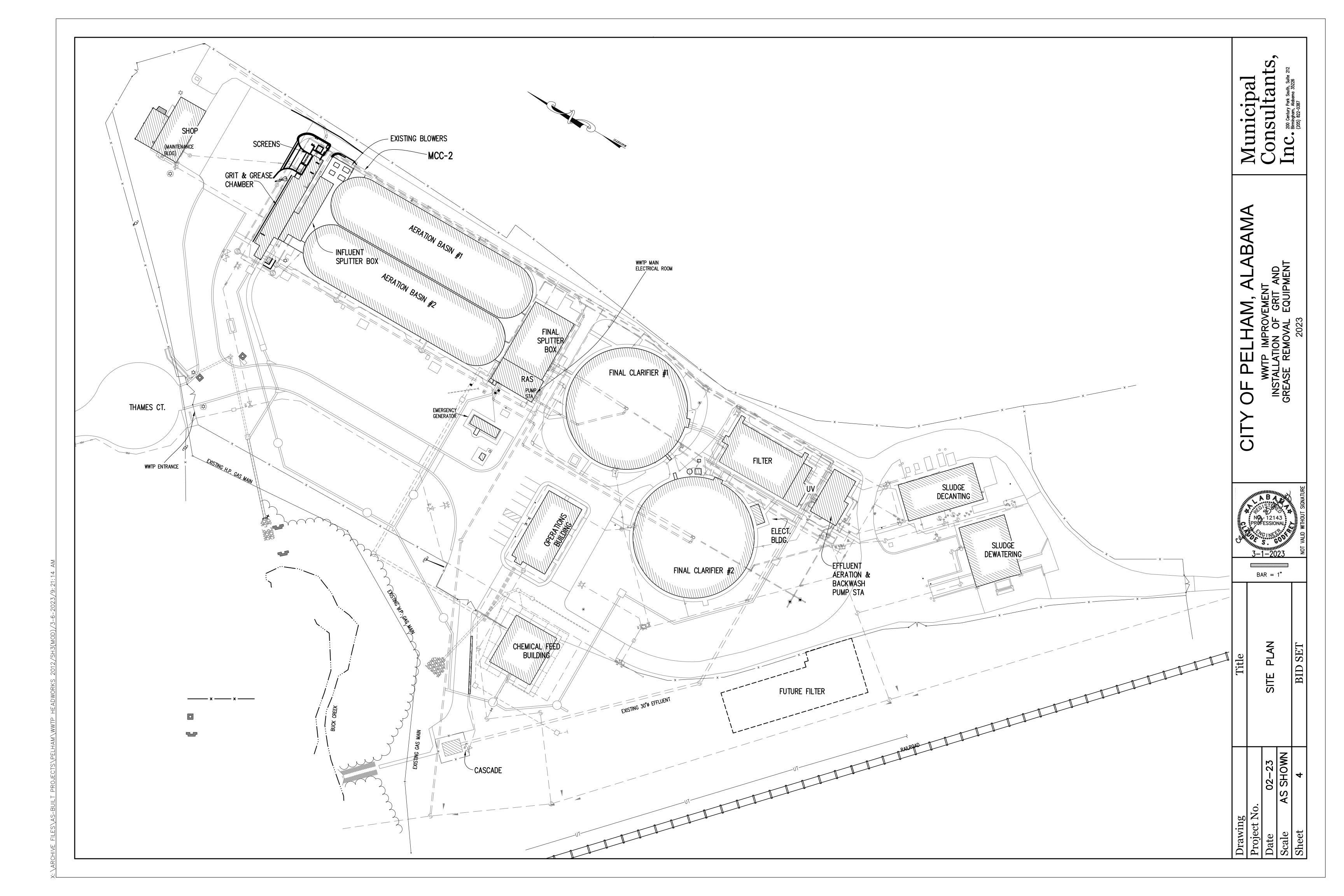
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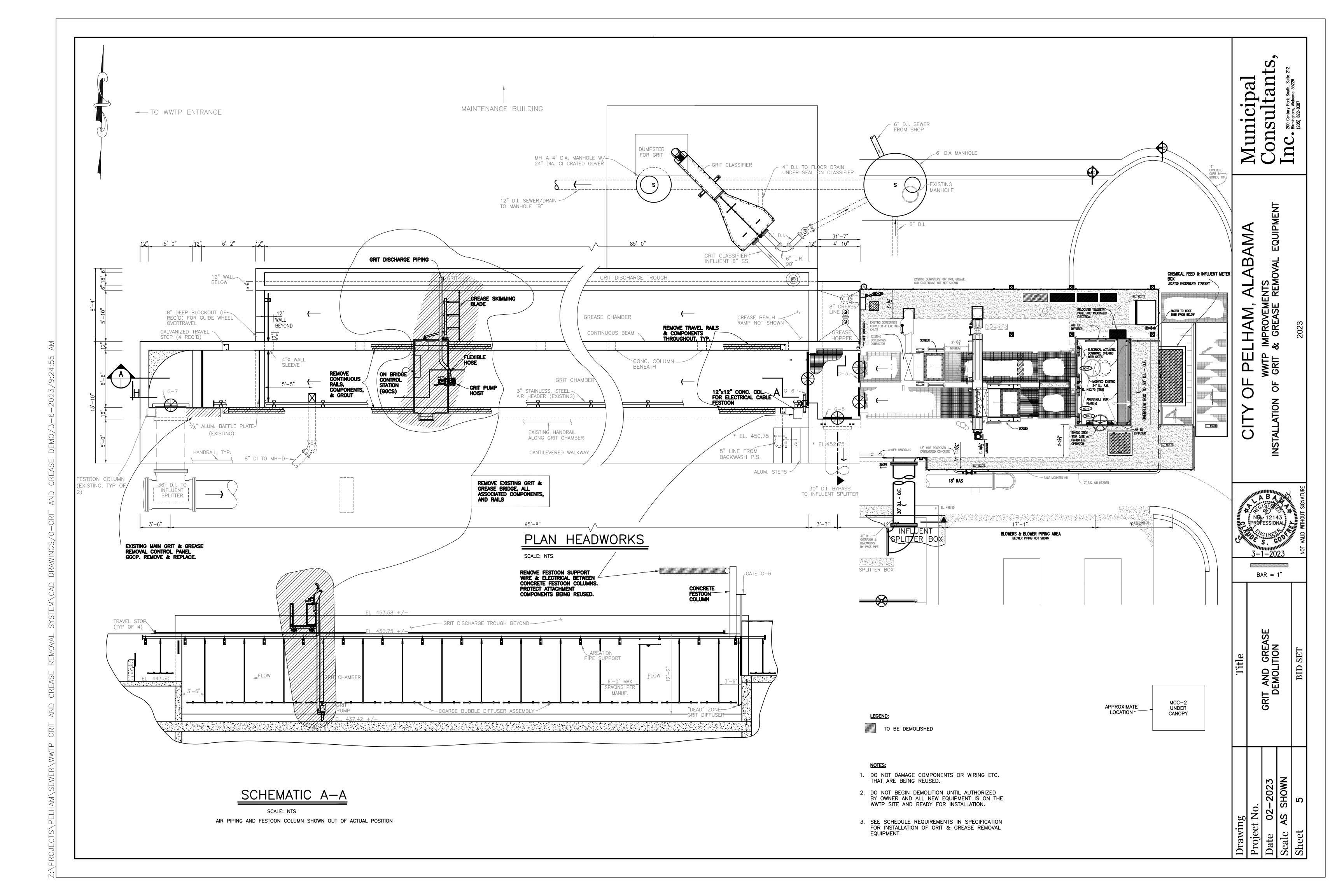
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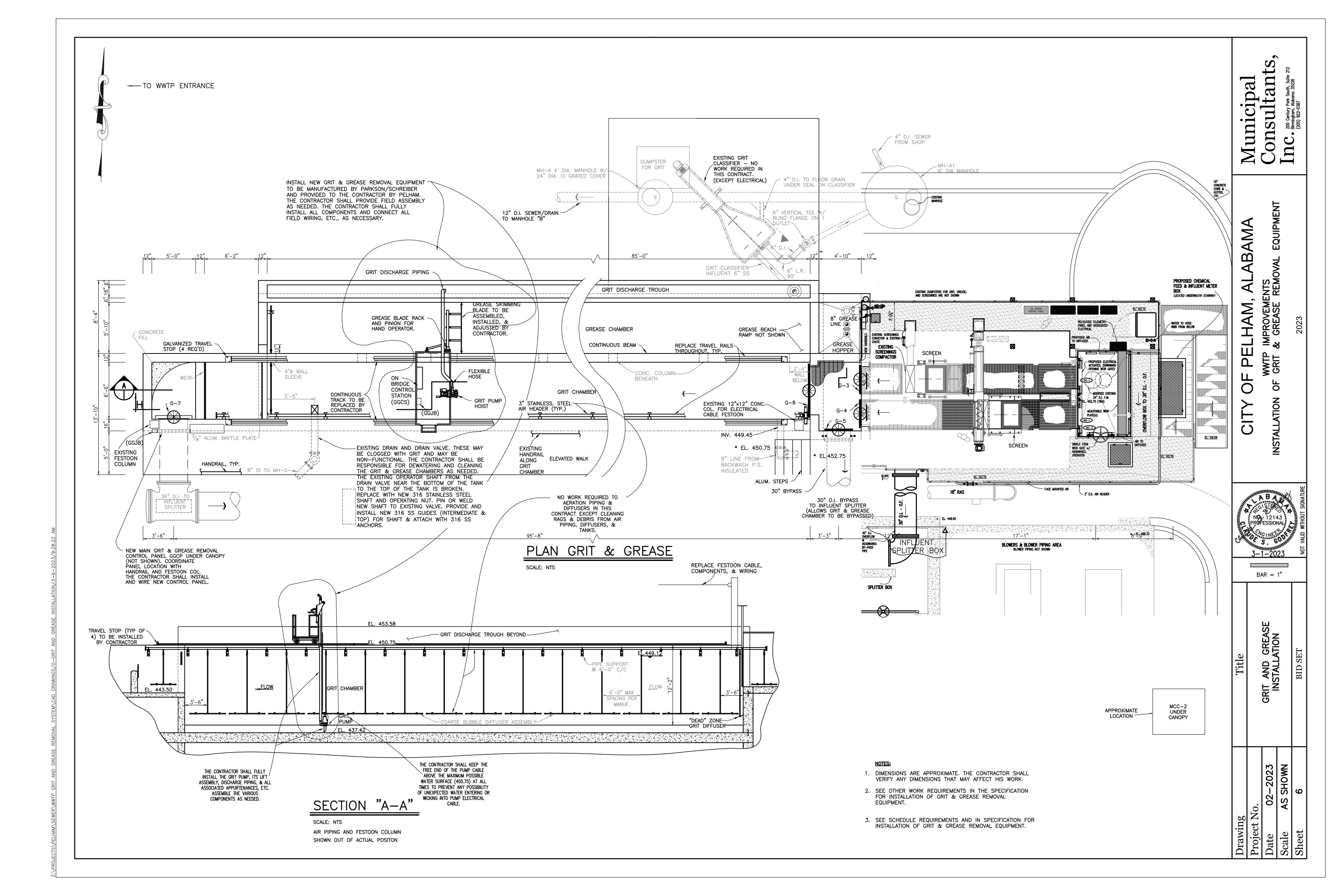
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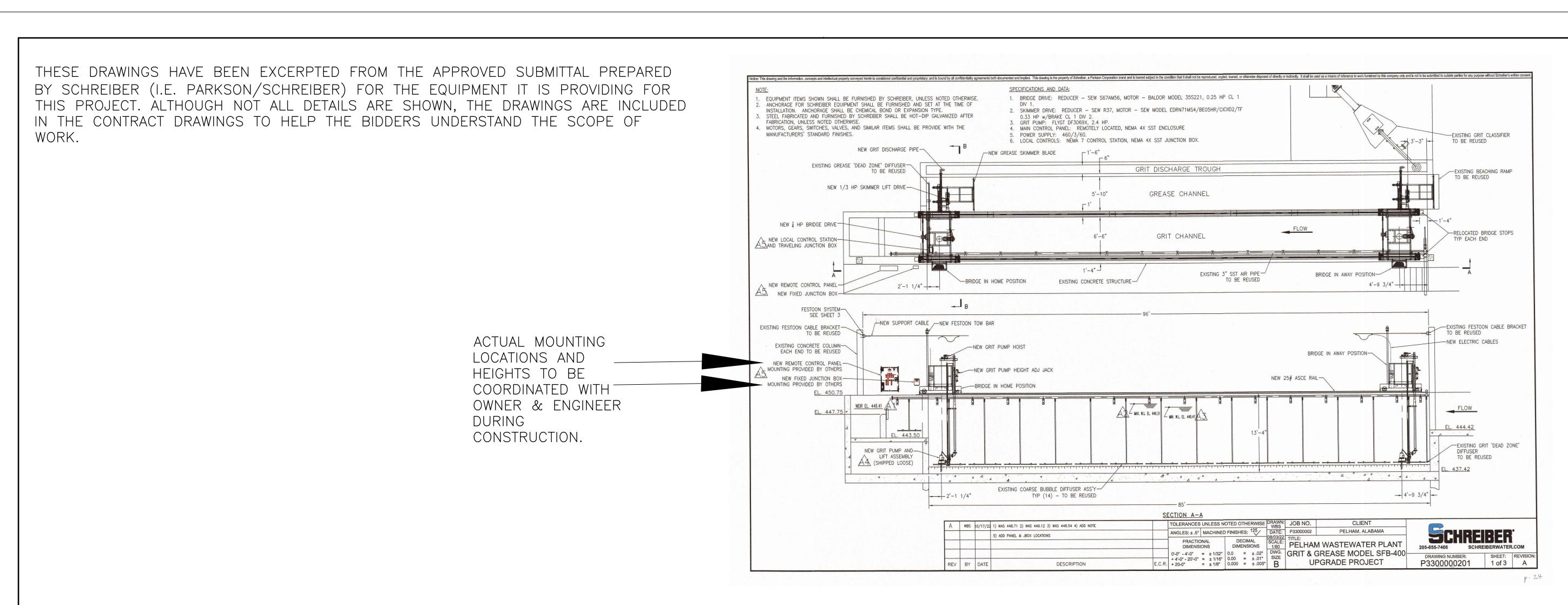
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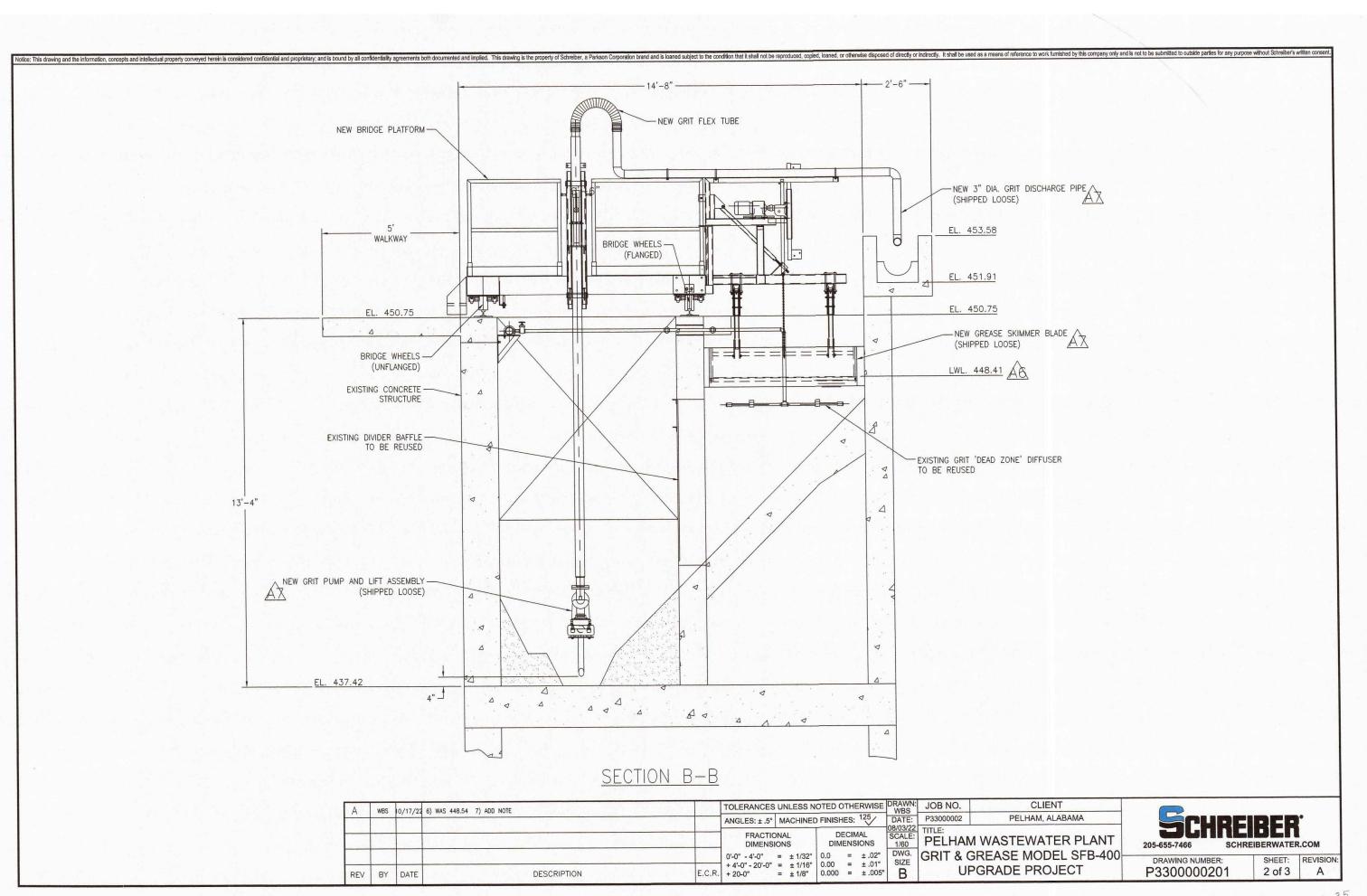








INSTALL NEW GGCP IN PLACE OF EXISTING PANEL. INSTALL NEW FIXED FESTOON JUNCTION BOX APPROXIMATELY 4' ABOVE FLOOR.



DWG-JMB\STUCKEY DWG

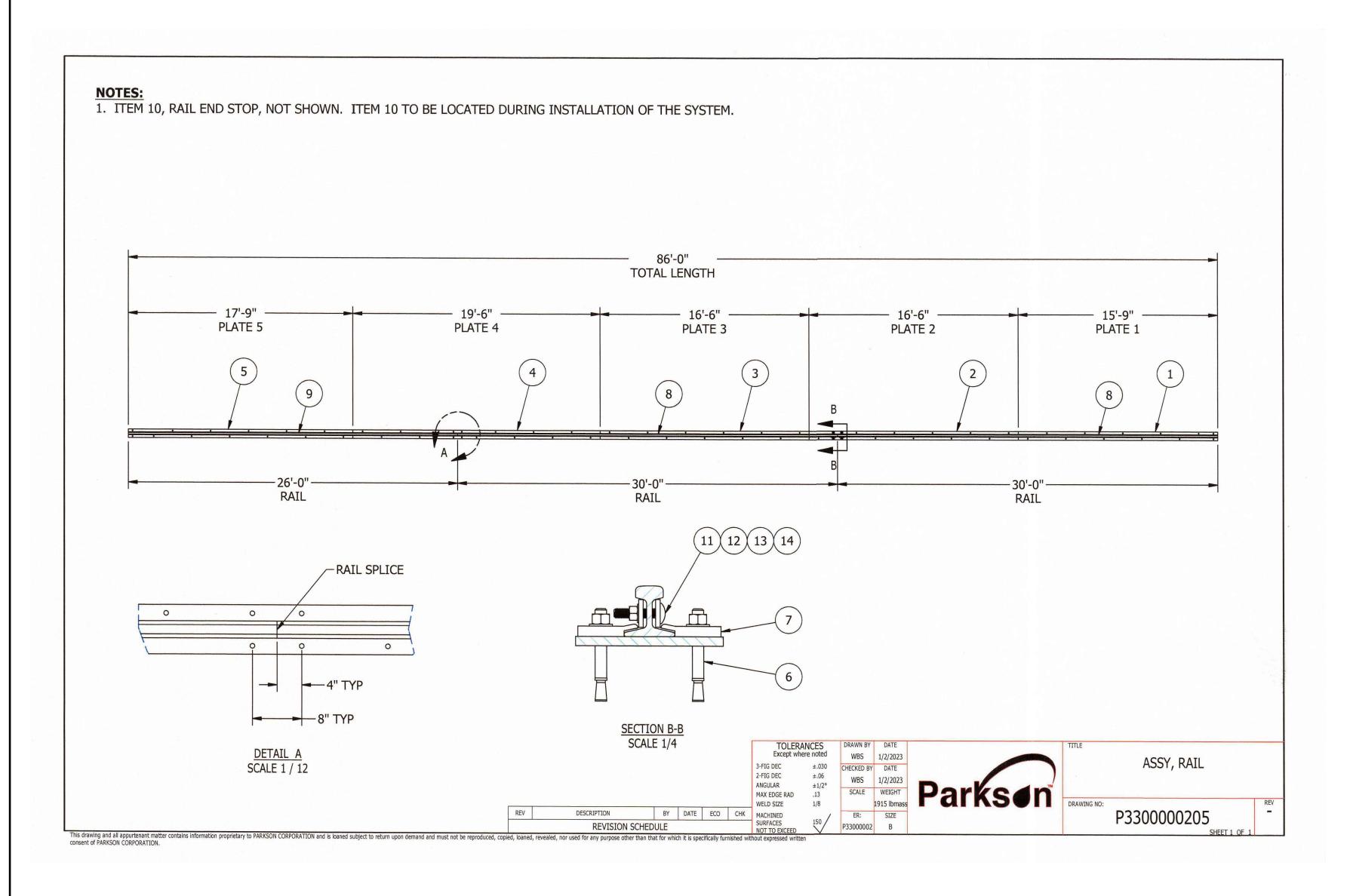
ABAMA A PELHAM,

WWTP GRIT

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(1905) Birmingham, Alabama 35226

BAR = 1"

2023 T.S.



THIS DRAWING WAS PREPARED BY PARKSON/SCHREIBER TO INDICATE SOME OF THE WORK REQUIRED TO INSTALL THE RAILS AND ASSOCIATED COMPONENTS FOR THE TRAVELING GRIT BRIDGE. THIS DRAWING IS BEING PROVIDED TO THE BIDDERS TO ASSIST THEM IN UNDERSTANDING PART OF THE GENERAL SCOPE OF THE WORK THE CONTRACTOR WILL HAVE TO PERFORM.

NOTE THE FOLLOWING:

ALL DETAILS ARE NOT SHOWN.

THIS DRAWING SHOWS ONLY ONE RAIL. AS SHOWN BY OTHER DRAWINGS, THERE ARE TWO SETS OF RAILS, ONE ON EACH SIDE OF THE GRIT CHAMBER.

THE RAILS MUST BE INSTALLED PARALLEL TO EACH OTHER AND IN THE CORRECT LOCATION FOR THE TRAVELING GRIT BRIDGE. THE RAILS MUST BE AT THE SAME ELEVATION.

THE RAILS THEMSELVES (ITEM 9 IN THE PARKSON/SCHREIBER DRAWING) SHALL BE CLIPPED (ITEM 7 IN THE PARKSON/SCHREIBER DRAWING) TO GALVANIZED STEEL PLATES (ITEMS 1 THROUGH 5 IN THE PLAN VIEW OF THE PARKSON/SCHREIBER DRAWING) THAT EXTEND THE FULL LENGTH OF EACH RAIL. THE PLATES SHALL BE SUPPORTED BY A BED OF NONSHRINK GROUT (NOT SHOWN IN THE DRAWING) PROVIDED BY THE CONTRACTOR AND INSTALLED IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS.

SPLICE PLATE ASSEMBLIES (ITEMS 11 THROUGH 14 IN THE PARKSON/SCHREIBER DRAWING) SHALL BE INSTALLED WHERE INDICATED. THIS DRAWING INDICATES THAT THE PLATE ANCHOR BOLTS (ITEM 6 IN THE PARKSON/SCHREIBER DRAWING, AND TO BE PROVIDED BY PARKSON/SCHREIBER) ARE EXPANSION ANCHORS. THESE ANCHORS BOLTS MAY BE ADHESIVE ANCHORS. THE CONTRACTOR SHALL INSTALL WHICHEVER ANCHOR TYPE IS PROVIDED IN ACCORDANCE WITH THE ANCHOR BOLT MANUFACTURER'S RECOMMENDATIONS.

THIS DRAWING SHOULD BE CONSIDERED PRELIMINARY AND THE FINAL ASSEMBLY SHALL BE IN ACCORDANCE WITH INSTRUCTIONS FROM PARKSON/SCHREIBER. FOUR RAIL END STOPS (NOT SHOWN) SHALL BE INSTALLED BY THE CONTRACTOR.

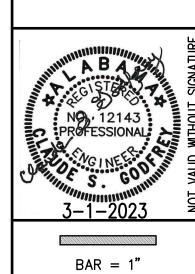
GENERAL ELECTRICAL, CONTROL, INSTRUMENTATION & SCADA REQUIREMENTS - NOTE: WHERE THESE NOTES CONFLICT WITH PLAN OR SPECIFICATION REQUIREMENTS, THE MOST STRINGENT SHALL GOVERN.

- 1. SAFETY, INCLUDING BUT BY NO MEANS LIMITED TO COORDINATION WITH OTHERS FOR CIRCUITS OR EQUIPMENT THAT IS LIVE OR MAY BECOME LIVE, IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR. THE OWNER OR THE ENGINEER ARE NOT RESPONSIBLE FOR
- 2. ALL ELECTRICAL EQUIPMENT PROVIDED AND INSTALLED FOR THIS PROJECT SHALL MEET THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARDS FOR SAFETY OR OTHER EQUIVALENT NATIONALLY RECOGNIZED STANDARDS (E.G. ANSI) FOR THE SPECIFIC
- 3. CONTRACTOR SHALL COORDINATE ALL COMPONENTS IN A TIMELY MANNER.
- 4. CONTRACTOR SHALL PROVIDE ALL MEANS, METHODS, AND MISCELLANEOUS APPURTENANCES. ETC., AS REQUIRED TO PERFORM AND PROPERLY COMPLETE THE WORK.
- 5. ALL MATERIALS AND WORK SHALL BE IN FULL COMPLIANCE WITH THE NEC AND WITH ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- 6. GROUND HANDRAIL TO GROUNDING GRID.
- 7. THE CONTRACTOR SHALL COORDINATE THE WIRING REQUIREMENTS, CONTROLS, AND RELAYS, ETC, WITH SUBMITTALS AND WITH EQUIPMENT ACTUALLY PROVIDED. MAKE ADJUSTMENTS TO WIRING SCHEDULES AS NECESSARY. NO ADDITIONAL TIME OR COMPENSATION SHALL BE GRANTED FOR SUCH COORDINATION AND ADJUSTMENTS.
- 8. ALL EXPOSED AND/OR VISIBLE CONDUIT, FITTINGS, WIREWAYS, GUTTERS, APPURTENANCES, ETC. SHALL BE ALUMINUM OR SS. SIZE CONDUIT AS REQUIRED EXCEPT 3/4" MINIMUM.
- 9. ALL HANGERS, UNISTRUT, CABLE TRAYS (WHERE AND IF SHOWN ON DRAWINGS). BRACKETS, ATTACHMENTS, CLAMPS, SCREWS, BOLTS, ANCHOR BOLTS, NUTS, WASHERS, HARDWARE, AND APPURTENANCES, ETC., USED SHALL BE STAINLESS STEEL OR ALUMINUM.
- 10. AT EXISTING FACILITIES, PERFORM ALL ELECTRICAL WORK IN A SEQUENCE AND MANNER THAT MINIMIZES DISTURBANCE TO PLANT OPERATIONS. SEE OTHER SEQUENCE NOTES IN OTHER PARTS OF THE PLANS AND CONTRACT DOCUMENTS. CAREFULLY PLAN AND SCHEDULE ALL WORK REQUIRED. ALL SHUTDOWNS OR INTERRUPTIONS SHALL HAVE PRIOR APPROVAL FROM THE OWNER.
- 11. THE CIRCUITS LISTED IN THE CIRCUIT SCHEDULES REPRESENT ONE METHOD OF ACHIEVING THE REQUIRED PERFORMANCE FOR THE EQUIPMENT SPECIFIED. IF, DUE TO THE EQUIPMENT PROVIDED, MORE OR DIFFERENT CIRCUITS ARE REQUIRED THAN SHOWN, THE CONTRACTOR SHALL PROVIDE THOSE CIRCUITS AT NO ADDITIONAL COST OR TIME TO THE
- 12. THE CONTRACTOR SHALL PROVIDE SS JUNCTION BOXES WHERE REQUIRED.
- 13. MOUNT ALL ELECTRICAL EQUIPMENT, BRACKETS, AND STANDS, ETC. SUCH THAT SHARP EDGES OR CORNERS DO NOT POSE A POTENTIAL HAZARD TO PERSONNEL. GRIND AND SMOOTH EDGES AND CORNERS WHERE DESIRABLE OR REQUIRED.
- 14. THESE PLANS DO NOT SHOW ALL THE APPURTENANCES, DETAILS, AND MATERIALS, ETC. REQUIRED TO PROPERLY PERFORM THE WORK. THE CONTRACTOR SHALL PROVIDE ALL APPURTENANCES, DETAILS, AND MATERIALS, ETC. REQUIRED AT NO EXTRA TIME OR COST.
- 15. THESE PLANS DO NOT, IN GENERAL, SHOW EXACT LOCATIONS OR CONFIGURATIONS OF CONDUIT ROUTING AND METHODS, INCLUDING THE METHOD OF ACCESSING STRUCTURES. THE CONTRACTOR SHALL PROPOSE TO THE ENGINEER AND OWNER HIS REQUESTED ROUTING (FOR BOTH NEW AND EXISTING STRUCTURES) FOR THEIR APPROVAL OR DENIAL OF APPROVAL. ROUTING WILL HAVE TO BE ADJUSTED IN THE FIELD TO AVOID EXISTING PIPING, STRUCTURES, AND EQUIPMENT CONFLICTS, ETC.
- 16. CAREFULLY EXAMINE GENERAL CONDITIONS, OTHER SPECIFICATION SECTIONS, AND OTHER DRAWINGS (IN ADDITION TO ELECTRICAL) IN ORDER TO BE FULLY ACQUAINTED WITH THEIR EFFECT ON ELECTRICAL WORK.
- 17. DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES, THE NATIONAL ELECTRICAL CODE AND THE REGULATIONS OF THE LOCAL UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE.
- 18. COOPERATE AND COORDINATE WITH OTHER TRADES AND CONTRACTORS AT JOB SITES. PERFORM WORK IN SUCH MANNER AND AT SUCH TIMES AS NOT TO DELAY OR CONFLICT WITH WORK OF OTHER TRADES. COMPLETE ALL WORK AS SOON AS STRUCTURE AND INSTALLATIONS OF EQUIPMENT AND THE OVERALL SEQUENCE WILL PERMIT.
- 19. THE CONTRACTOR SHALL INSPECT ALL SITES WHERE WORK IS NEEDED TO DETERMINE DIMENSIONS AND ALL CONDITIONS AFFECTING ELECTRICAL WORK. FAILURE TO DO SO SHALL IN NO WAY RELIEVE CONTRACTOR OF HIS RESPONSIBILITY UNDER CONTRACT.
- 20. THE ELECTRICAL SUBCONTRACTOR, HIS KEY MANAGEMENT, ONSITE SUPERINTENDENT, AND OPERATING PERSONNEL ONSITE, HIS KEY PERSONNEL IN THE OFFICE AND ONSITE, AND HIS STAFF SHALL BE WELL-EXPERIENCED IN PERFORMING QUALITY WORK OF SIMILAR OR GREATER COMPLEXITY ON PROJECTS OF SIMILAR OR GREATER MAGNITUDE AND DIFFICULTY AT WATER AND WASTEWATER PLANTS. THE SUB CONTRACTOR'S EXPERIENCE SHALL BE SATISFACTORY TO THE OWNER.
- 21. COORDINATE ALL WORK WITH INSTRUMENTATION & SCADA, ETC.
- 22. NO CONDUIT OR ELECTRICAL FACILITY OR APPURTENANCE SHALL BE INSTALLED IN A MANNER THAT CREATES A POTENTIAL TRIPPING HAZARD OR AN OBSTRUCTION TO PASSAGE
- 23. ALL SMALL PANELS, INCLUDING BUT NOT LIMITED TO, INSTRUMENTATION AND SCADA, SHALL HAVE A #4 BARE COPPER GROUND EXTENDED DIRECTLY TO GROUNDING GRID, UNLESS THE PANEL/INSTRUMENT MANUFACTURER RECOMMENDS AN INDEPENDENT GROUND.
- 24. ALL DETAILS, APPURTENANCES, CONNECTIONS, COMPONENTS AND WIRING, ETC. ARE NOT SHOWN. PROVIDE ALL COMPONENTS AND DEVICES, ETC., AS REQUIRED FOR A COMPLETE AND PROPERLY OPERATIONAL SYSTEM. PROVIDE THOROUGH AND TIMELY COORDINATION.
- 25. THE CONTRACTOR SHALL COORDINATE EQUIPMENT ACTUALLY PROVIDED WITH OTHER REQUIREMENTS, COMPONENTS, AND SUBMITTALS, ETC., AND MAKE ADJUSTMENTS AS
- 26. PROVIDE DANGER LABELS ON ALL PANELS OR BOXES OR MCC'S. ETC., WHERE POWER IS FED FROM ONE THAN ONE SOURCE OR WHERE TURNING OFF THE MAIN BREAKER OR SWITCH DOES NOT AUTOMATICALLY KILL ALL POWER INSIDE THE PANEL.
- 27. NOTE THAT ALL ELECTRICAL REQUIREMENTS ARE NOT SHOWN IN ANY ONE LOCATION OF THE PLANS OR SPECIFICATIONS. IT IS NECESSARY TO HAVE AN UNDERSTANDING OF THE ENTIRE PLANS AND SPECIFICATIONS IN ORDER TO KNOW ALL THE PROJECT REQUIREMENTS. CIRCUITS THAT EXTEND FROM ONE LOCATION TO ANOTHER LOCATION ARE TYPICALLY LISTED ONLY AT ONE LOCATION.
- 28. PROVIDE REMOVABLE SEALANT (UNLESS PERMANENT SEALANT CALLED FOR) AT ALL CONDUIT ENTRY POINTS INTO PANELS & BOXES, ETC. TYPICAL.
- 29. PROVIDE APPROPRIATE WARNING LABELS ON ALL TYPES OF ENCLOSURES THAT CONTAIN DEVICES (SUCH AS CAPACITORS) THAT MAY CONTAIN ENERGY OR PRESENT A SHOCK HAZARD EVEN AFTER THE MAIN POWER SUPPLY IS DISCONNECTED. THIS ALSO APPLIES TO SITUATIONS WHERE AN ENCLOSURE IS FED FROM A POWER SOURCE SEPARATE FROM THE MAIN POWER SUPPLY.
- 30. CONDUITS & WIRING ENTER THE BOTTOMS OF ENCLOSURES & PANELS, ETC., SO THAT RAINWATER CANNOT ENTER AT THE WIRING & CONDUIT. INSTALL CONDUITS IN A MANNER TO KEEP WATER FROM ENTERING THE CONDUIT.
- 31. INSTALL CABLE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. DO NOT EXCEED MINIMUM RECOMMENDED BEND RADIUS, INCLUDING DURING INSTALLATION AND

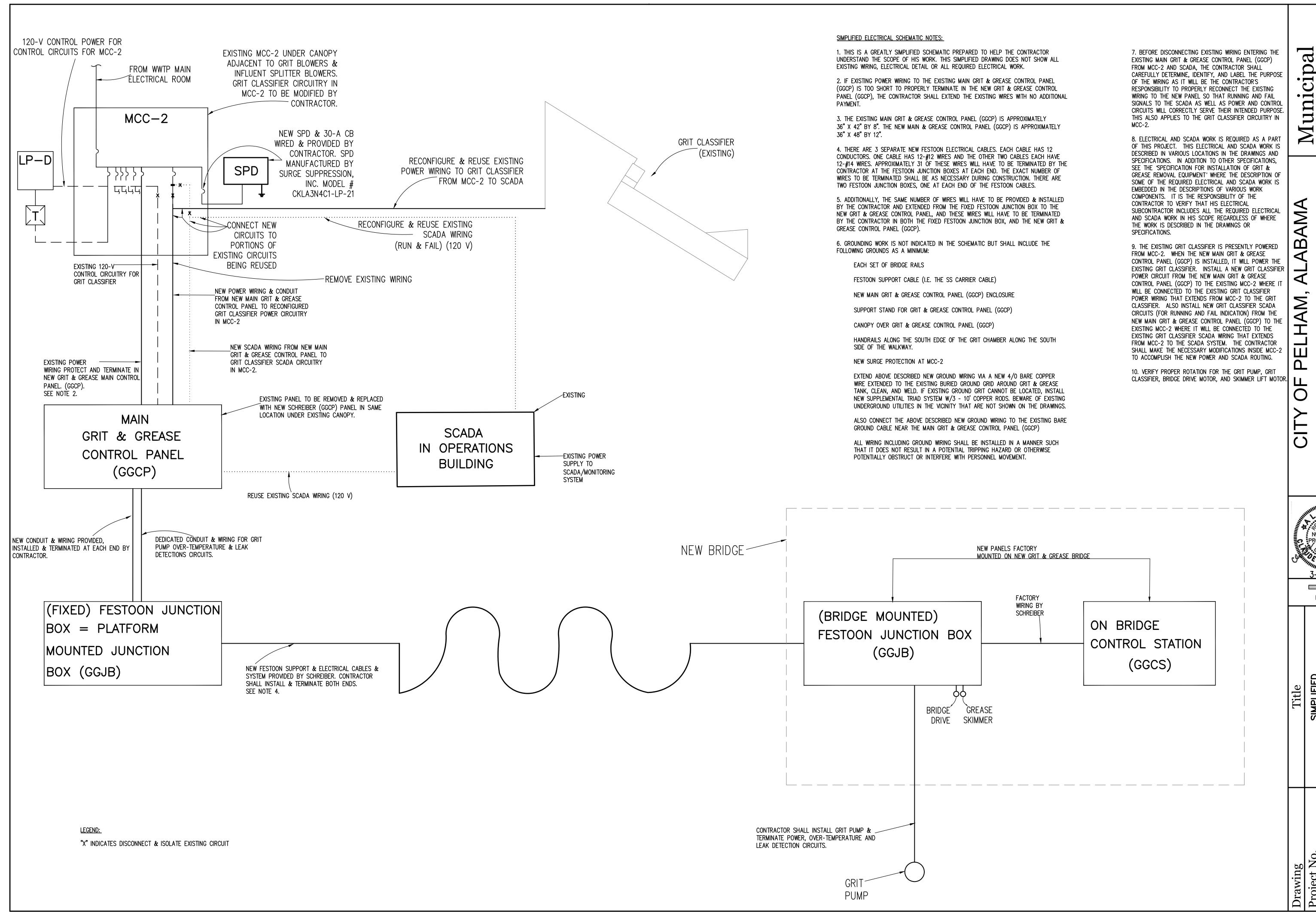
- 32. KEEP FREE ENDS OF CABLE TIGHTLY CLOSED TO PREVENT THE ENTRANCE OF ANY MOISTURE DURING STORAGE AND AT ALL TIMES WHEN CABLE IS NOT BEING PULLED OFF A REEL, ETC.
- 33. THE CONTRACTOR SHALL ADJUST ALL EQUIPMENT, CONTROLS, RELAYS, APPURTENANCES, TIMERS, FLOATS, SETPOINTS, AND ALARMS, ETC., PRIOR TO STARTUP SUCH THAT THEY PROPERLY SERVE THEIR INTENDED PURPOSE AND DO NOT RESULT IN NUISANCE TRIPS OR ALARMS. COORDINATE WITH EQUIPMENT MANUFACTURERS AND PROVIDERS. ENGINEER. AND OWNER. ADJUST AS NECESSARY AFTER STARTUP. PROPERLY ADJUST ALL TIMER RELAYS, ETC., TO PREVENT SIMULTANEOUS RESTART AFTER POWER OUTAGES OR TRANSFERS, ETC., AND TO PROTECT EQUIPMENT.
- 34. THE LOCATIONS SHOWN ON THE DRAWINGS FOR PANELS, STARTERS, DISCONNECTS, AND ALL OTHER ELECTRICAL EQUIPMENT ARE CONCEPTUAL. TYPICAL FOR ALL EQUIPMENT: ACTUAL EQUIPMENT LAYOUT, SIZE, AND EQUIPMENT CONTROL PANEL LOCATION WILL VARY FROM THAT INDICATED. STUB UP ALL CONDUITS PER FINAL APPROVED SUBMITTAL DRAWINGS. THE CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL EQUIPMENT. THE FINAL LOCATION SHALL BE BASED ON THE DIMENSIONS AND LOCATION OF THE ACTUAL EQUIPMENT FURNISHED AND SHALL PROVIDE THE CLEARANCES REQUIRED BY THE CODE, ETC. ALL GEAR AND PANELS, ETC., MUST FIT IN THE SPACE INDICATED ON THE DRAWINGS AND IN THE SPACE AVAILABLE.
- 35. THE CONTRACTOR SHALL USE HIS OWN PADLOCKS TO LOCK OUT ALL BREAKERS AND EQUIPMENT, ETC., WHICH IS NOT SUPPOSED TO BE POWERED OR OPERATED. THE CONTRACTOR SHALL TAKE THE MEASURES NECESSARY TO PREVENT THE OPERATION OF ANY EQUIPMENT (BY THE OWNER OR OTHERS) WHEN IT IS NOT INTENDED TO BE OPERATED. THIS REQUIREMENT APPLIES DURING ALL PHASES OF THE WORK, INCLUDING BUT NOT LIMITED TO. STORAGE, INSTALLATION, TESTING, STARTUP, EARLY PHASES OF OPERATION. TROUBLESHOOTING, REPAIRS, AND MODIFICATIONS, ETC. APPROVAL OF THE MANUFACTURER SHALL BE OBTAINED PRIOR TO MAKING GEAR HOT.
- 36. ALL ELECTRICAL PANELS SHALL BE STORED INDOORS IN A BUILDING OR WAREHOUSE. PANELS INCLUDE METAL CLAD GEAR, SWITCHGEAR, SWITCHBOARDS, MCC'S, STARTERS, CONTROL PANELS, INSTRUMENT PANELS, AND ALL OTHER SIMILAR ELECTRICAL PANELS. THE INDOOR AREA SHALL BE HEATED (60° MINIMUM) DURING COOLER PERIODS OF THE YEAR. ALL STORED AND INSTALLED PANELS SHALL BE HEATED AT ALL TIMES BY AN INTERNAL CONDENSATION HEATER OR BY TEMPORARY LIGHT BULBS (MINIMUM 1 - 60 WATT PER SECTION) TO PREVENT CONDENSATION. EQUIPMENT SHALL NOT BE PAID FOR IF NOT PROPERLY STORED IN ACCORDANCE WITH THESE AND ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE MANUFACTURER. IF EQUIPMENT HAS ALREADY BEEN PAID FOR AS STORED OR INSTALLED MATERIALS BUT IS NOT PROPERLY HEATED OR OTHERWISE PROTECTED FROM DUST, WATER, HUMIDITY, AND WEATHER, ETC., THE COST OR PARTIAL COST OF IT MAY BE DEDUCTED FROM SUBSEQUENT PAYMENT REQUESTS. ARRANGE STORED PANELS TO ALLOW FOR EASE OF ENGINEER VERIFICATION (ON REGULAR BASIS) THAT PANEL HEATERS OR LIGHT BULBS ARE IN OPERATION.
- 37. WHEN WORKING ON EXISTING OR NEW FACILITIES, BE AWARE THAT PANELS, ETC., ARE OFTEN SUPPLIED FROM MORE THAN ONE POWER SUPPLY. THEREFORE, TURNING OFF THE MAIN DISCONNECT MAY NOT KILL ALL POWER. TAKE APPROPRIATE PRECAUTION.

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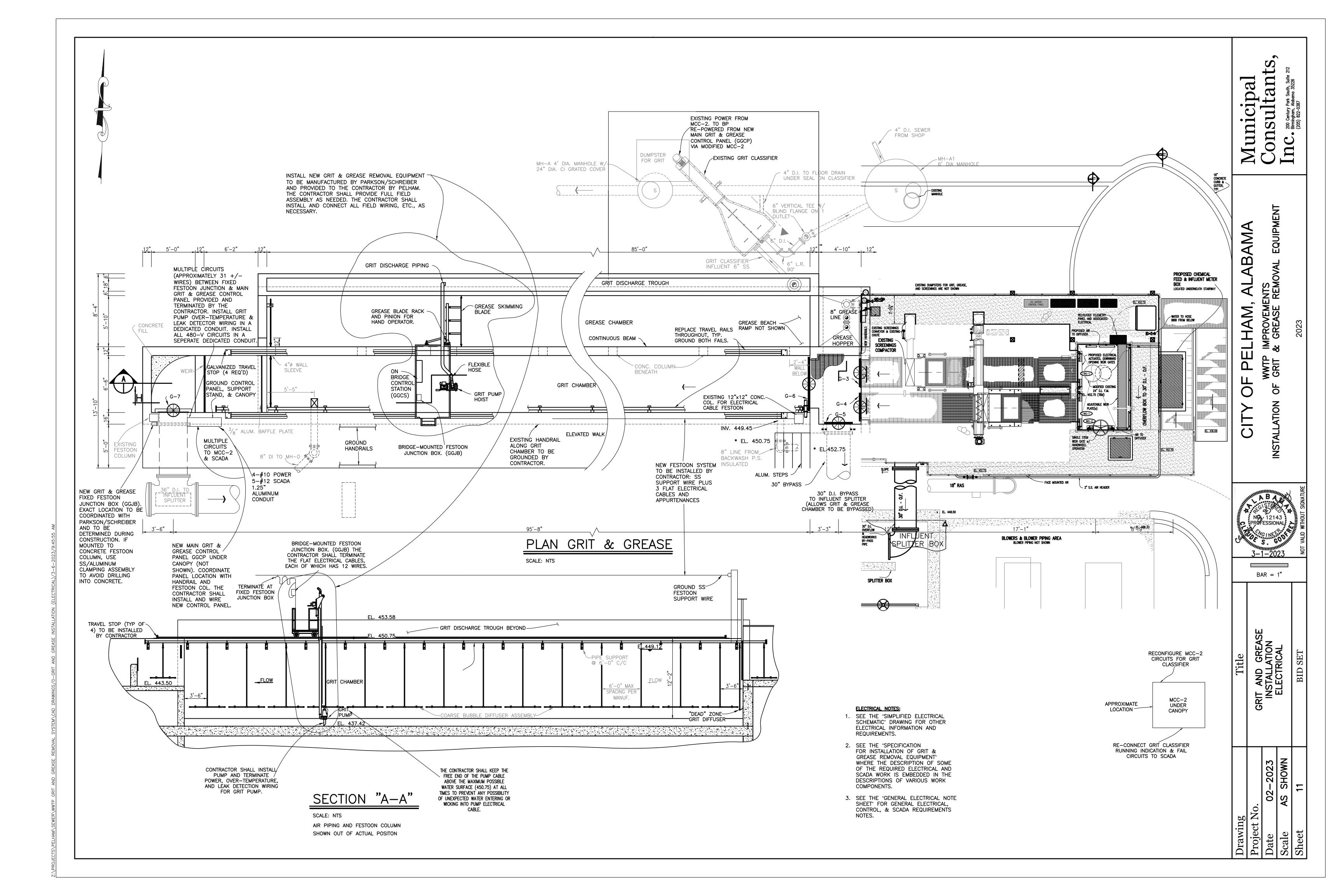
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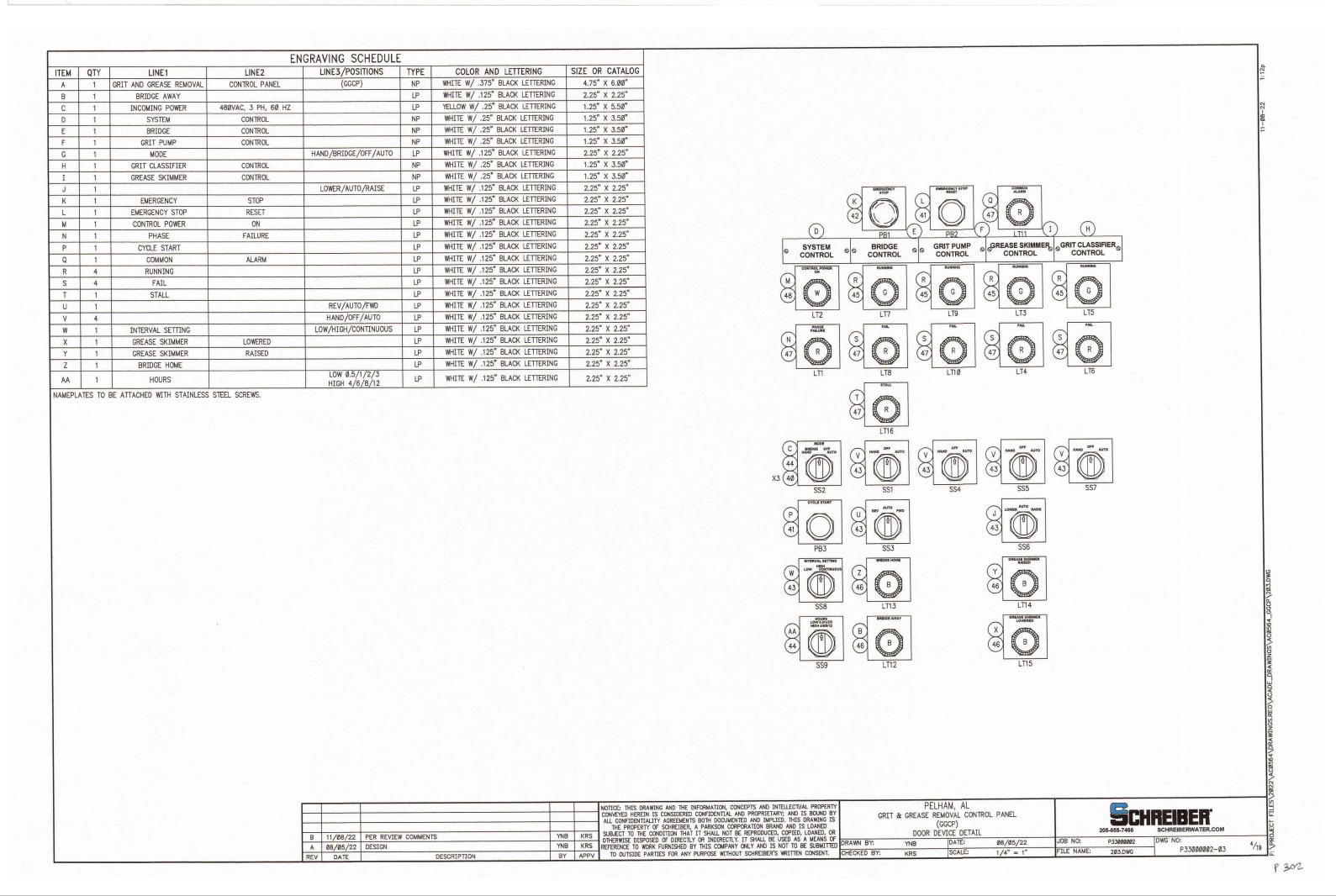
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SCHREIBER GRIT & CONTROL PA CONTRO 2023 T.S.

22.25" —

ENCLOSURE LAYOUT
(10" DEEP) 1. FOR TERMINAL BLOCK DETAIL SEE DWG 204. 2. FOR DOOR DEVICE DETAIL SEE DWG 203. 3. REMOVE TOP COVER.



NOTE:

THE WIRING FROM THIS GGCP TO THE BRIDGE SHALL BE TERMINATED BY THE CONTRACTOR IN THE FIXED FESTOON JUNCTION BOX (GGJB). THE FIXED END OF THE FESTOON CABLES SHALL ALSO BE TERMINATED BY THE CONTRACTOR IN THE FIXED FESTOON JUNCTION BOX (GGJB). THE BRIDGE END OF THE FESTOON CABLES SHALL BE TERMINATED BY THE CONTRACTOR IN THE BRIDGE MOUNTED FESTOON JUNCTION BOX (GGJB). SEE THE SCHRÈIBER SUBMITTAL INTERCONNECTION DIAGRAM FOR NUMBER OF WIRES TO BE INSTALLED & TERMINATED.

ALTHOUGH THIS DRAWING SHOWS

A PANEL DEPTH OF 10", MORE

CURRENT CORRESPONDENCE

INDICATES A DEPTH OF 12".

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THESE DRAWINGS HAVE BEEN

APPROVED SUBMITTAL PREPARED

PARKSON/SCHREIBER) FOR THE

THIS PROJECT. ALTHOUGH NOT

ALL DETAILS ARE SHOWN, THE

CONTRACT DRAWINGS TO HELP

THE BIDDERS UNDERSTAND THE

EQUIPMENT IT IS PROVIDING FOR

DRAWINGS ARE INCLUDED IN THE

EXCERPTED FROM THE

BY SCHREIBER (I.E.

SCOPE OF WORK.

THE YELLOW HIGHLIGHT INDICATES WIRING TO BE INSTALLED AND TERMINATED BY THE CONTRACTOR. THE YELLOW HIGHLIGHTING IS NOT PART OF THE SUBMITTAL. THE YELLOW HIGHLIGHT WAS ADDED TO ASSIST THE CONTRACTOR BY INDICATING (IN GENERAL TERMS) SOME OF THE FIELD WIRING

THAT MUST BE INSTALLED AND

TERMINATED BY THE

CONTRACTOR.

0 00x 9 60125 EXTREME FORWARD TRAVEL STOP REVERSE TRAVEL STOP & PARK STALL LIMIT SWITCH GREASE SKIMMER RAISED LIMIT SWITCH GRIT PUMP OVER-TEMP/CASE SENSOR 14 #14 ALARM AND STATUS
REPORTING TO SCADA 3 #12, & 1 #12 GND TO CRIT CLASSIFIER 3 #12 & 1 #12 GND FROM MAIN FEED DISCONNECT (BY OTHERS) NUMBER OF CONDUCTORS AND AWG SIZES ARE MINIMUM AND DO NOT INCLUDE SPARES. REFER TO CONTRACT DRAWINGS FOR LONG WIRING RUNS THAT WILL REQUIRE LARGER SIZING. REMOVAL CONTROL PANEL GRIT & GREASE REMOVAL CONTROL PANEL (GGCP) SCHREIBER 05-655-7466 SCHREIBERWATER.CO

NOTE RE: ITEM 3 FESTOON SUPPORT CABLE: THIS CABLE WILL NOT BE VINYL COVERED ROPE BUT WILL BE PROVIDED AS STAINLESS STEEL WIRE WITHOUT THE PLASTIC COATING.

THIS DRAWING IS FOR

DURING BIDDING. THE

TERMINATE WIRING IN

PARKSON/SCHREIBER.

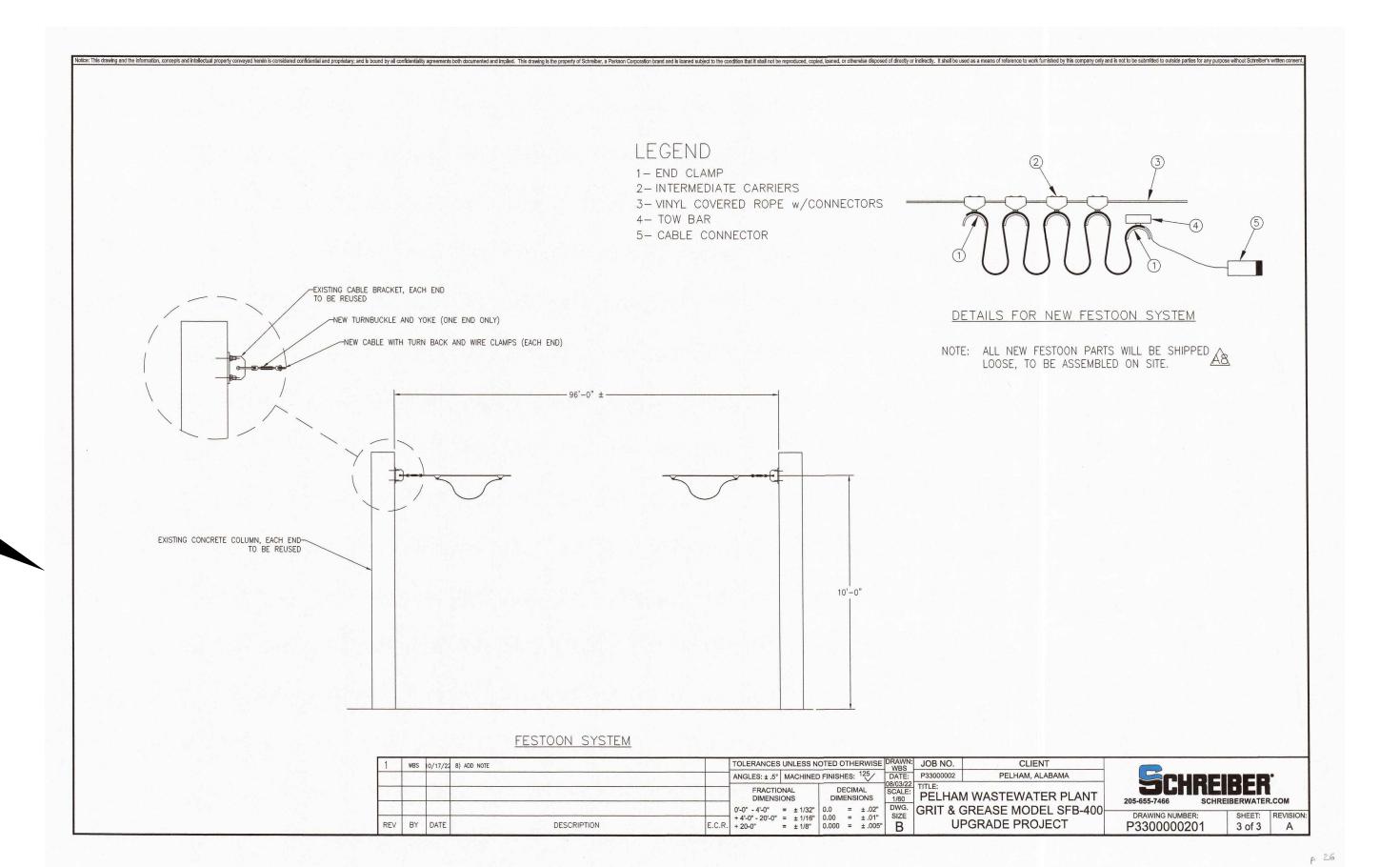
PREPARED BY

ACCORDANCE WITH THE

AS-BUILT DRAWINGS TO BE

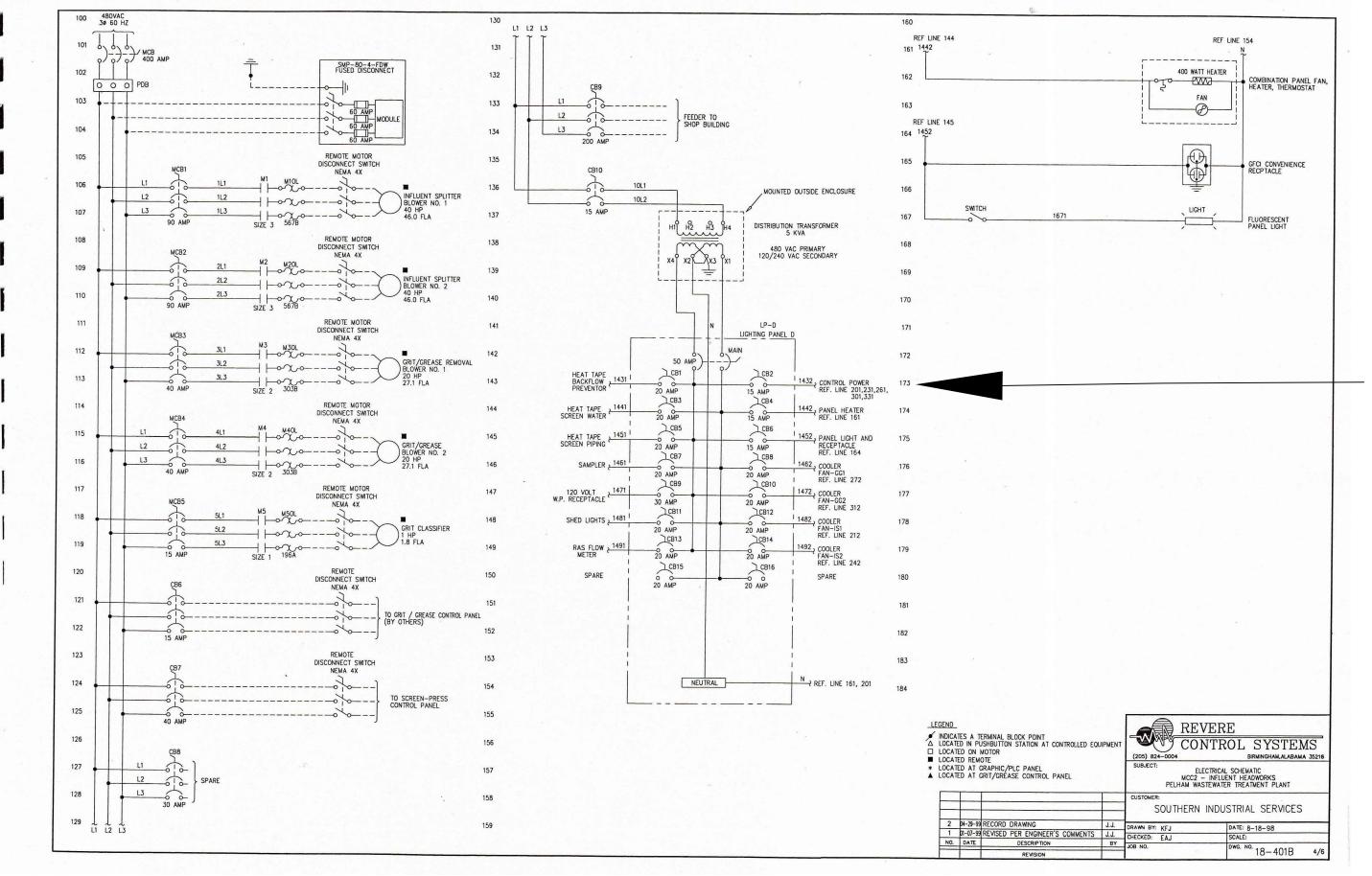
INFORMATIONAL PURPOSES

CONTRACTOR SHALL INSTALL &

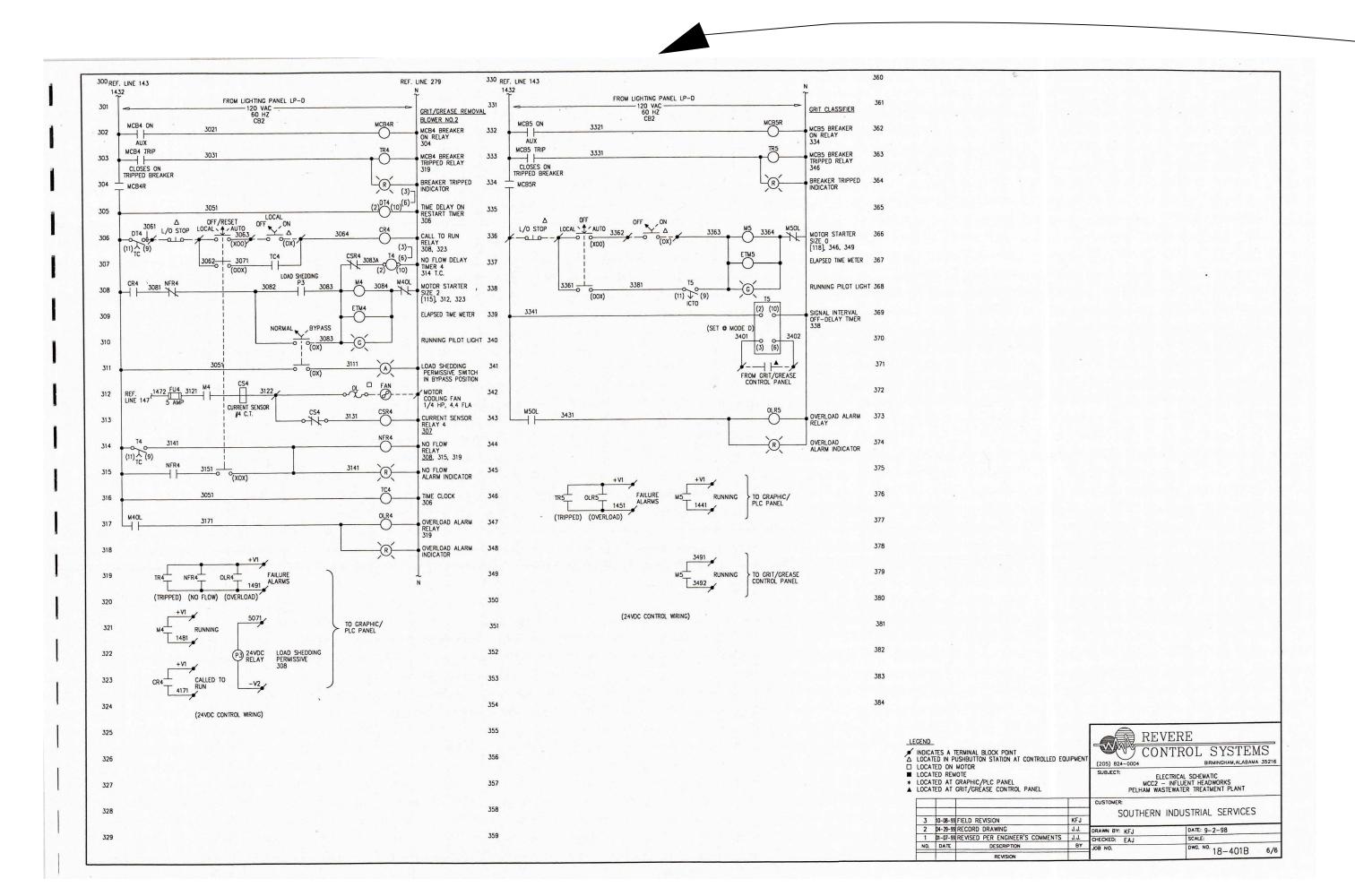


THESE DRAWINGS HAVE BEEN EXCERPTED FROM THE APPROVED SUBMITTAL PREPARED BY SCHREIBER (I.E. PARKSON/SCHREIBER) FOR THE EQUIPMENT IT IS PROVIDING FOR THIS PROJECT. ALTHOUGH NOT ALL DETAILS ARE SHOWN, THE DRAWINGS ARE INCLUDED IN THE CONTRACT DRAWINGS TO HELP THE BIDDERS UNDERSTAND THE SCOPE OF WORK.

THESE DRAWINGS WERE PREPARED BY REVERE CONTROL SYSTEMS TO INDICATE SOME (BUT BY NO MEANS ALL) OF THE WIRING INSIDE EXISTING MCC-2 WHEN IT WAS MANUFACTURED IN 1999. THESE DRAWINGS ARE BEING PROVIDED TO THE BIDDERS TO ASSIST THEM IN UNDERSTANDING PART OF THE CIRCUITRY THAT THE CONTRACTOR WILL HAVE TO MODIFY IN MCC-2. THE CONTRACTOR SHALL BE AWARE THAT SOME OF THE WIRING MAY HAVE BEEN CHANGED EITHER DURING THE INITIAL INSTALLATION OR DURING LATER CHANGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CIRCUITRY AS IT ACTUALLY CURRENTLY EXISTS AND FOR MAKING THE REQUIRED MODIFICATIONS.



CONTROL POWER FOR MCC-2 CIRCUITS (INCLUDING GRIT CLASSIFIER)



CIRCUITRY IN MCC-2 FOR GRIT CLASSIFIER. Municipal
Consultants,
Inc. 200 Century Pork South, Suite 212
Inc. Eliminghom, Alabama 35226

ABAMA A PELHAM,

WWTP GRIT

BAR = 1"