

Request for Proposals

For SCADA Integration for Commerce, GA Wastewater Treatment System

Prepared for:

City of Commerce
27 Sycamore Street
Commerce, GA 30529

Prepared By:

The logo for Goodwyn Mills Cawood, LLC, featuring the letters 'GMC' in a bold, black, sans-serif font. The letters are set against a light yellow rectangular background.

GOODWYN MILLS CAWOOD, LLC
6120 Powers Ferry Road NW, Suite 200
Atlanta, GA 30339

1 INTRODUCTION

The purpose of this request for proposals (RFP) is to solicit proposals from Vendors for SCADA Integration for the city of Commerce's Wastewater Treatment System. It is the intent of Commerce to select a vendor that will be used in the design and implementation of SCADA within its system.

It is Commerce's intent to have proposals representative of similar scope, supply, and configuration between suppliers based on performance requirements so that the proposals can be evaluated on an equal and fair basis with like-for-like comparison where possible. The proposals will be evaluated using criteria listed in Section 3. Commerce may request site visits and/or presentations from a short-list of Vendors prior to making a selection.

Background

Commerce's wastewater treatment system is primarily comprised of an existing Water Pollution Control Plant (WPCP), the Northside WPCP, water towers and pump stations to efficiently serve the surrounding area. An additional WPCP has been designed to better support the Northside WPCP, and is to begin construction soon.

Northside WPCP:

The Northside WPCP is an existing 2.1 million gallon per day (MGD) maximum monthly average daily flow (MMADF) facility in Commerce, GA. The Plant serves approximately 7,800 acres of property in Jackson County, Georgia and treats domestic, commercial and industrial wastewater. The facility consists of coarse screening, influent flow measurement and recording, grit removal, aeration basins, filtration, chlorination and dechlorination. The original plant was constructed in 1974, and was upgraded in 1986 to treat 1.05 MGD of flow and was again upgraded in 2003 to treat its present 2.1 MGD permitted flow. A PFD of Northside WPCP site plant, adjacent lift station and P&I Diagram following their 2003 upgrade is attached in **Appendix A**.

The current SCADA system installed at the Northside WPCP is the General Electric Intellution iFIX 3.5 SCADA system. Computer displays present graphic illustrations of each system with equipment run status, process flow readings, chemical flow readings, chemical tank levels, alarms, alarm report history, reports and trending information.

Grove Creek WPCP:

Commerce recently has requested the design of a new wastewater treatment facility to provide support to the Northside WPCP. This plant, the Grove Creek WPCP, is designed as a 2.0 MGD greenfield facility. The plant will feature an Orbal oxidation ditch, tertiary cloth disc filters, and a UV system. A PFD of the site plan for the proposed facility is attached in **Appendix B**. The location of the Beck Road lift station is also shown.

Submittal Registration

Proposers must register via email with the Engineer, Goodwyn Mills Cawood, to ensure that all addenda are received. Proposals by unregistered suppliers will not be considered. Send contact information to Charles Welch at Charles.Welch@gmcnetwork.com with the subject line, "Commerce SCADA Integrator Proposal". The email shall in its body provide the following information:

1. Contact Name
2. Phone (Office/Cell)
3. E-mail Address
4. Physical Address
5. SCADA Integrator Manufacturer

Questions

All questions should be addressed in writing to Charles Welch at Charles.Welch@gmcnetwork.com. PLEASE DO NOT CALL such that questions may be properly managed and all suppliers provided the same information. The engineer will issue addenda as deemed necessary and appropriate. Questions shall be submitted no later than the following: November 15, 2024 at 5:00 P.M. E.S.T.

Companies that wish to schedule an on-site review of the existing Northside WPCP may do so by contacting Charles Welch at Charles.Welch@gmcnetwork.com or by calling 404-626-3893.

Preparation of Proposal

Each Proposal shall be assembled in one PDF document with a Title Page, Table of Contents, and Section Dividers. The submittal information shall be presented in the order requested under Section 5, Proposal Information.

In the case of Vendors who choose to furnish "confidential information", this information shall be clearly identified as the confidential portion of the Vendor's Proposal and shall be assembled in the same manner as described above.

Delivery of Proposal

The Proposal shall be emailed to Charles Welch at Charles.Welch@gmcnetwork.com. If the PDF is too large, GMC can provide an FTP site or OneDrive folder where the Vendor can upload the document.

The Proposal must be received by: 12:01 P.M. E.S.T. on December 16, 2024.

2 Project Description

General description of the work at each facility is detailed below. It is the request of Commerce that the new SCADA system at both plants allows operators control of either facility and also the control of the Beck Road Pump Station.

Northside WPCP:

1. Provision and installation of all Local Control Panels (LCPs). Replace all existing LCPs with the latest technology.
2. Replacement of Remote Input Output (RIO) cabinets and equipment as required to operate the new system.
3. Rehabilitation and/or upgrading of existing SCADA server/panel.
4. New SCADA program.
5. New Operator Interface Terminal (OIT) computers and equipment.
6. Replacement, calibration, and commissioning of necessary instruments.
7. Complete programming for SCADA and LCPS.

Grove Creek WPCP:

The project description for Grove Creek WPCP includes the Beck Road Pump Station adjacent to the plant.

1. Provision and installation of all LCPS and integration with Factory Control Panels (FCPs).
2. Provision and installation of primary and backup SCADA program and server/panel, OITs, communication equipment including ModBUS CAT6 managed network switches, radios, and milt-mode Fiber Optic (FO) converters.
3. Provision, calibration, and commissioning of all integrator supplied instrumentation.
4. Complete programming for SCADA, LCPS, ad VFDS not factory programmed.

Note: Any supplier who submits in its Proposal to Commerce any information that is determined by Commerce or its engineer, Goodwyn Mills Cawood, to be substantially inaccurate, misleading, exaggerated, or incorrect may be disqualified from consideration.

3 SELECTION PROCESS

CATEGORIES

Commerce and its consultants reserve the right to change, suspend, or rescind the Proposal rating and/or sole source selection based on subsequently ascertained information.

The offers will be evaluated according to the five categories below:

- Lead Time – 20%
- Established Presence – 20%
- Experience/Installations – 20%
- Design, Operation, and Maintenance – 20%
- Cost – 20%

4 REQUIRED SUBMITTAL INFORMATION FOR SUPPLIERS

GENERAL

- Provide an acknowledgment of all addenda.
- Provide the following information:
 - Sales Representative company name (if applicable), project contact, address, phone number, web address and email
 - Manufacturer company name, project contact, address, phone number, web address and email

LEAD TIME

- Length of time between approval of shop drawings/submittal and delivery to the job site. It is anticipated that shop drawings/submittal will be approved prior to project bid.

ESTABLISHED PRESENCE

Please state the following:

- A brief company (manufacturer) history
- Duration that the Vendor has been in business
- Provide an organizational chart with the team that will be assigned to this project
- Location and qualifications of nearest qualified service representative
- Overview of maintenance and troubleshooting program

EXPERIENCE/INSTALLATIONS

- State the number of total installations the manufacturer has in operation in North America.

- State the number of installations the manufacturer has in Georgia.
- List installations completed within the past ten (10) years.
 - All projects submitted shall be separated projects
 - All the projects must have been completed by the Vendor submitting a Proposal for this project.
- For two (2) projects, include the following additional information.
 - Owner's representative who has personal knowledge of the manufacturer's performance during the referenced project. More than one person may be listed, but all must have knowledge of the project. DO NOT list principals or individuals who cannot answer specific questions about the equipment.
 - Cost of manufacturer's portion of the project

PERFORMANCE AND SITE REQUIREMENTS

- State what power requirements are needed to run the SCADA system and all associated equipment provided by the Vendor (i.e., phase, kW, etc.)
- State any additional set up and/or site requirements

COST

- Provide the hourly rates for the installation and setup the vendor will perform.
- Provide an estimated schedule of O&M costs for the next 20 years that would include the following at a minimum:
 - Annual maintenance and repairs
 - Any replacement costs for equipment
 - Annual power usage (assume \$0.12/kwh)
 - Call out costs
- Provide the capital cost for all equipment necessary for the SCADA system.

DESIGN

- Please provide a technical specification specific for your equipment.
- Please provide cut sheets or any other brochures and technical information that would be helpful in evaluating your equipment.
- Provide equipment layout drawings with dimensions and component sizing drawn to scale for the proposed project. Provide a process and instrumentation diagram as well as electrical drawings (panels, one line, etc.).
- Provide written description of routine maintenance requirements and expected frequency. This shall match the cost estimate.
- Provide standard manufacturer equipment used by Vendor for major components, and clearly state the proposed manufacturer for all major equipment.

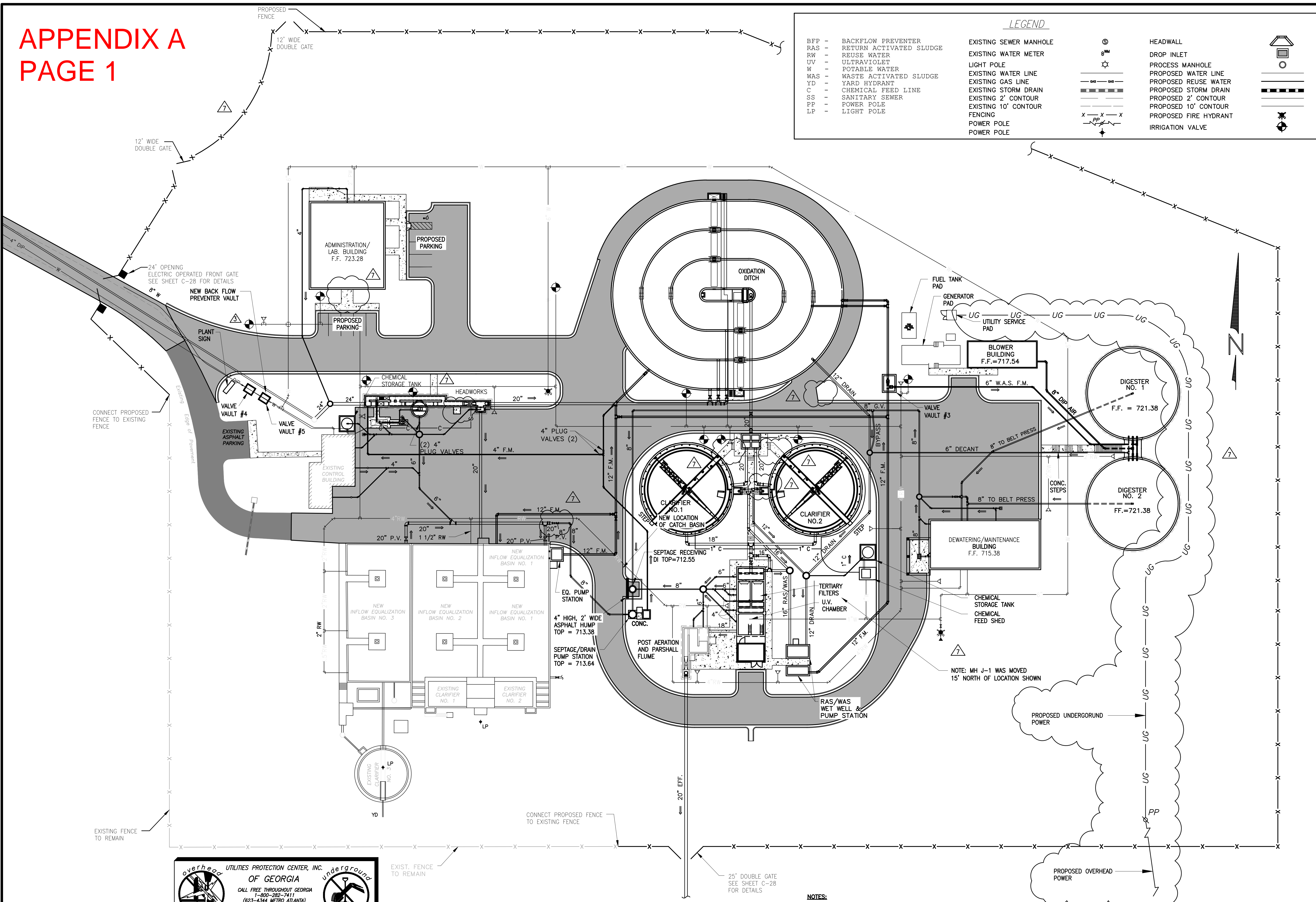
- Provide Vendor scope of supply.
- Clearly list all required materials not provided by the Vendor that are needed for successful installation, such as anchor bolts, supports, etc. This should not include items specifically listed as not required to be provided by the Vendor in Section 2.
- Vendors should contact the engineer in writing as described in Section 1 should they find that requirements of the RFP contribute considerable cost, yet questionable benefit. Further, cost saving or value engineering suggestions are recommended in the proposals.

APPENDIX A – See attached

Page 1	Northside Site Plan
Page 2	Process & Instrumentation Diagram
Page 3	Process & Instrumentation Diagram
Page 4	Process & Instrumentation Diagram
Page 5	Process & Instrumentation Diagram

APPENDIX A PAGE 1

LEGEND	
BPP - BACKFLOW PREVENTER	EXISTING SEWER MANHOLE
RAS - RETURN ACTIVATED SLUDGE	EXISTING WATER METER
RW - REUSE WATER	LIGHT POLE
UV - ULTRAVIOLET	EXISTING WATER LINE
W - POTABLE WATER	EXISTING GAS LINE
WAS - WASTE ACTIVATED SLUDGE	EXISTING STORM DRAIN
YD - YARD HYDRANT	EXISTING 2' CONTOUR
C - CHEMICAL FEED LINE	EXISTING 10' CONTOUR
SS - SANITARY SEWER	FENCING
PP - POWER POLE	POWER POLE
LP - LIGHT POLE	POWER POLE
	HEADWALL
	DROP INLET
	PROCESS MANHOLE
	PROPOSED WATER LINE
	PROPOSED REUSE WATER
	PROPOSED STORM DRAIN
	PROPOSED 2' CONTOUR
	PROPOSED 10' CONTOUR
	PROPOSED FIRE HYDRANT
	IRRIGATION VALVE



DATE	REVISION DESCRIPTION
8-05-03	
1-09-07	
AS-BUILT	

PROJECT No.	DRAWING FILE	DATE
15219-00-35	CI-C7.10.13.14.17.22-27	10/13/14

DESIGNED BY	CHECKED BY	DATE
DHH/WBK	CBG/RCS	OCT. 2002

2430 HERODIAN WAY, SUITE 101
 SMYRNA, GEORGIA 30080
 FAX (770) 955-1064

Stevenson & Palmer
 Engineering
 INCORPORATED

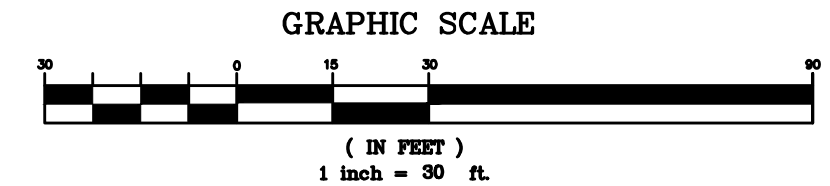
PROPOSED SITE PLAN
NORTHSIDE WWTP EXPANSION
 CITY OF COMMERCE, GEORGIA

SHEET No.
C-3
 8 OF 159

UTILITIES PROTECTION CENTER, INC. OF GEORGIA
 CALL FREE THROUGHOUT GEORGIA
 1-800-282-7411
 (623-4344 METRO ATLANTA)

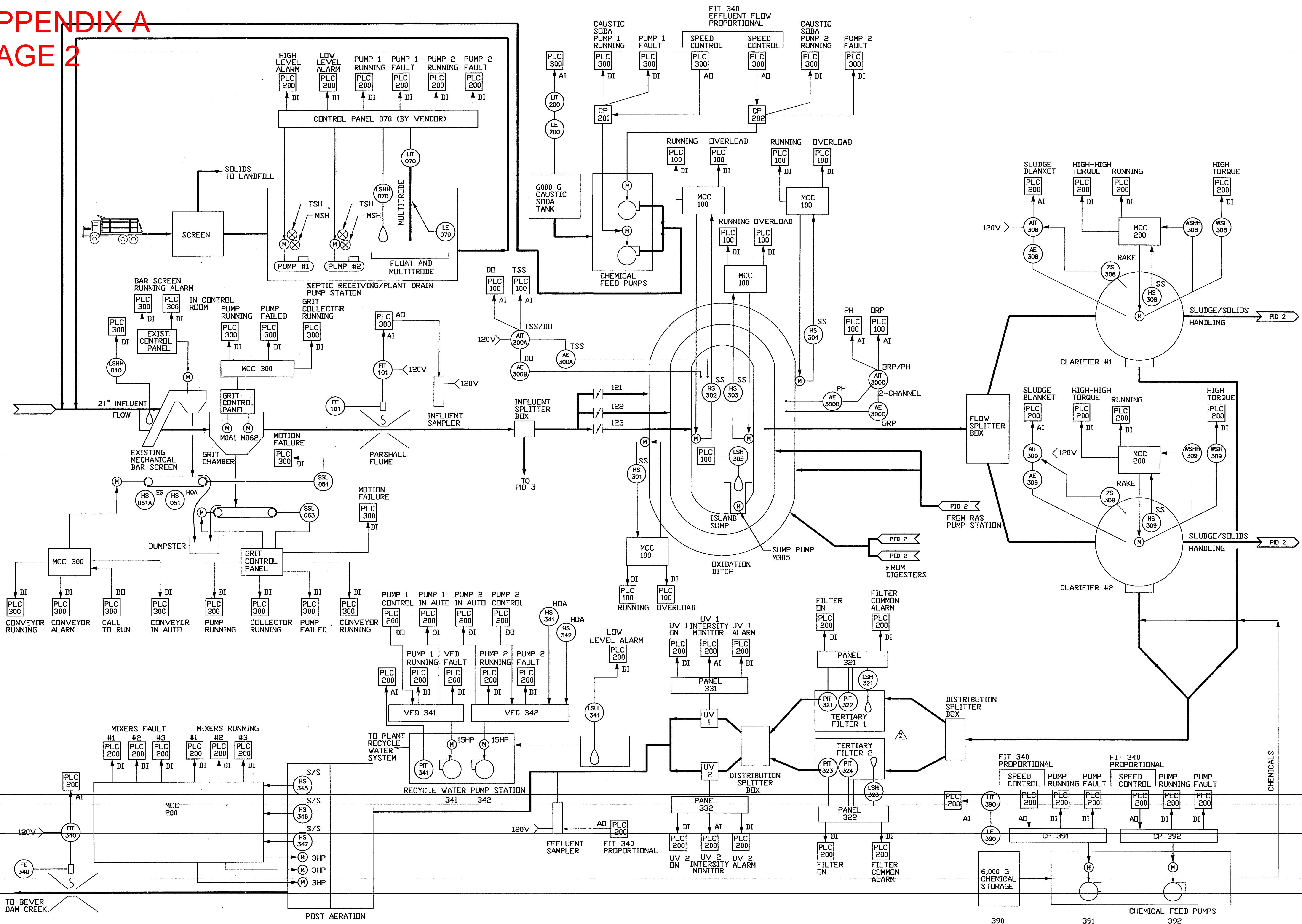
OUT-OF-STATE: CALL COLLECT (404)325-5000
 THREE WORKING DAYS BEFORE YOU DIG
 IT'S THE LAW

BEFORE ANY EXCAVATION WORK BEGINS OR ANY WORK BEGINS
 WITHIN TEN(10') FT. OF OVERHEAD POWER LINES OF 750 VOLTS OR
 MORE, NOTIFICATION MUST BE MADE TO THE UTILITIES PROTECTION
 CENTER, INC. IT'S THE LAW.



NOTES:
 THIS SHEET REPRESENTS COMPLETION OF NEW COMPONENTS, PIPING, PAVING, ETC..
 REFER TO PERTINENT SHEET FOR VARIOUS DISCIPLINES OF WORK.

AS BUILT
 BY CONTRACTORS INFORMATION ONLY



DATE	INIT.	REV.	DESCRIPTION
8-05-03		1	ADDED TO 2. ITEM 30
		2	REVISION INFORMATION

PROJECT NO.: 9719-00-35
DRAWING NO.: 9719-00-35
SURVEYED BY: JH/ABR
DRAWN BY: AKR
DESIGNED BY: AKR
CHECKED BY: AKR
DATE: MARCH 2003
SCALE: AS SHOWN

2430 HERODIAN WAY, SUITE 101
SAVANNAH, GEORGIA 30906
(770) 952-2481
FAX (770) 955-1064

ENGINEERING A BETTER WORLD

Stevenson & Palmer
Engineering
INCORPORATED

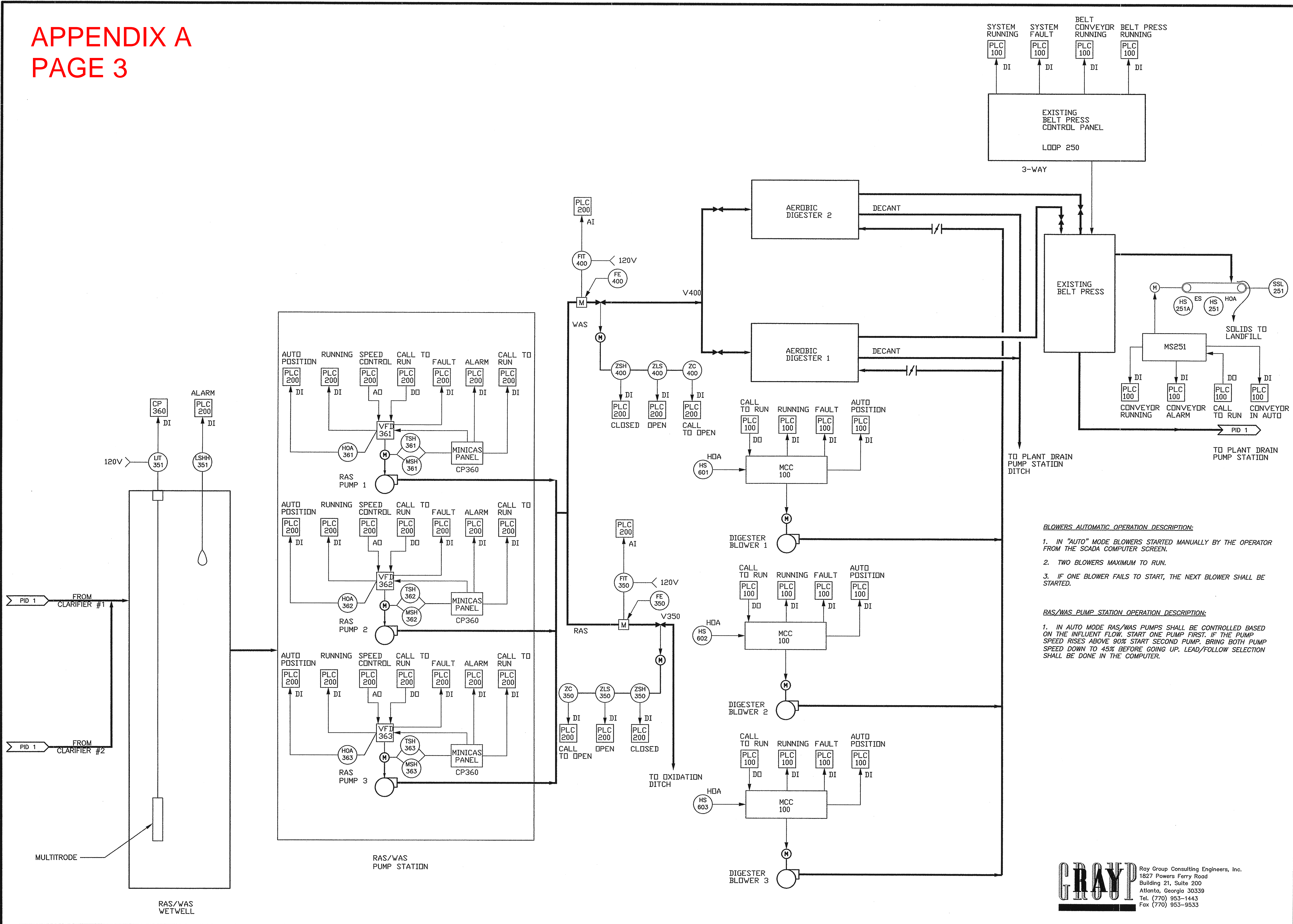
AUGUSTA SAVANNAH
SAVANNAH

PROCESS AND INSTRUMENTATION
DIAGRAM 1
NORTHSIDE WWTP EXPANSION
CITY OF COMMERCE, GEORGIA

GRAYP
Ray Group Consulting Engineers, Inc.
1827 Powers Ferry Road
Building 21, Suite 200
Atlanta, Georgia 30339
Tel. (770) 953-1443
Fax (770) 953-9533

APPENDIX A PAGE 3

I:\Projects\Commerces\219-00-35\select in\Final\212 PID_Solids.dwg, 05/09/2003 10:56:52 AM, HP DesignJet, 1050C, Final.pcs



BLOWERS AUTOMATIC OPERATION DESCRIPTION:

1. IN "AUTO" MODE BLOWERS STARTED MANUALLY BY THE OPERATOR FROM THE SCADA COMPUTER SCREEN.
2. TWO BLOWERS MAXIMUM TO RUN.
3. IF ONE BLOWER FAILS TO START, THE NEXT BLOWER SHALL BE STARTED.

RAS/WAS PUMP STATION OPERATION DESCRIPTION:

1. IN AUTO MODE RAS/WAS PUMPS SHALL BE CONTROLLED BASED ON THE INFLUENT FLOW. START ONE PUMP FIRST. IF THE PUMP SPEED RISES ABOVE 90% START SECOND PUMP. BRING BOTH PUMP SPEED DOWN TO 45% BEFORE GOING UP. LEAD/FOLLOW SELECTION SHALL BE DONE IN THE COMPUTER.

DATE	INT.	REVISION DESCRIPTION

DRAWING INFORMATION
 PROJECT NO: 219-00-35
 DRAWING FILE: 219-00-35.dwg
 SURVEYED BY: DHH/NER
 DRAIN BY: AKR
 DESIGNED BY: AKR
 APPROVED BY: AKR
 DATE: MARCH 2003
 SCALE: AS SHOWN

Stevens & Palmer Engineering
INCORPORATED

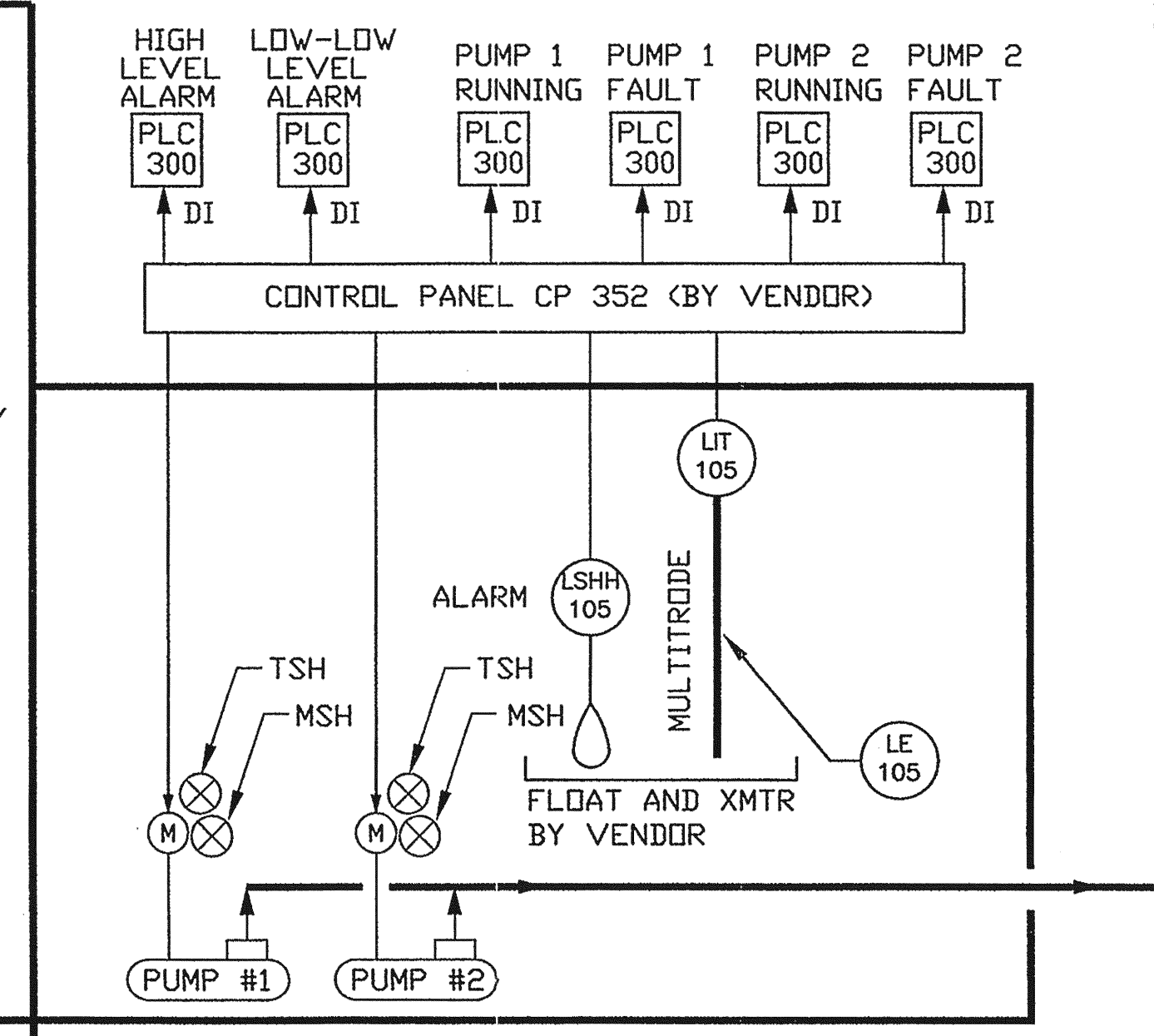
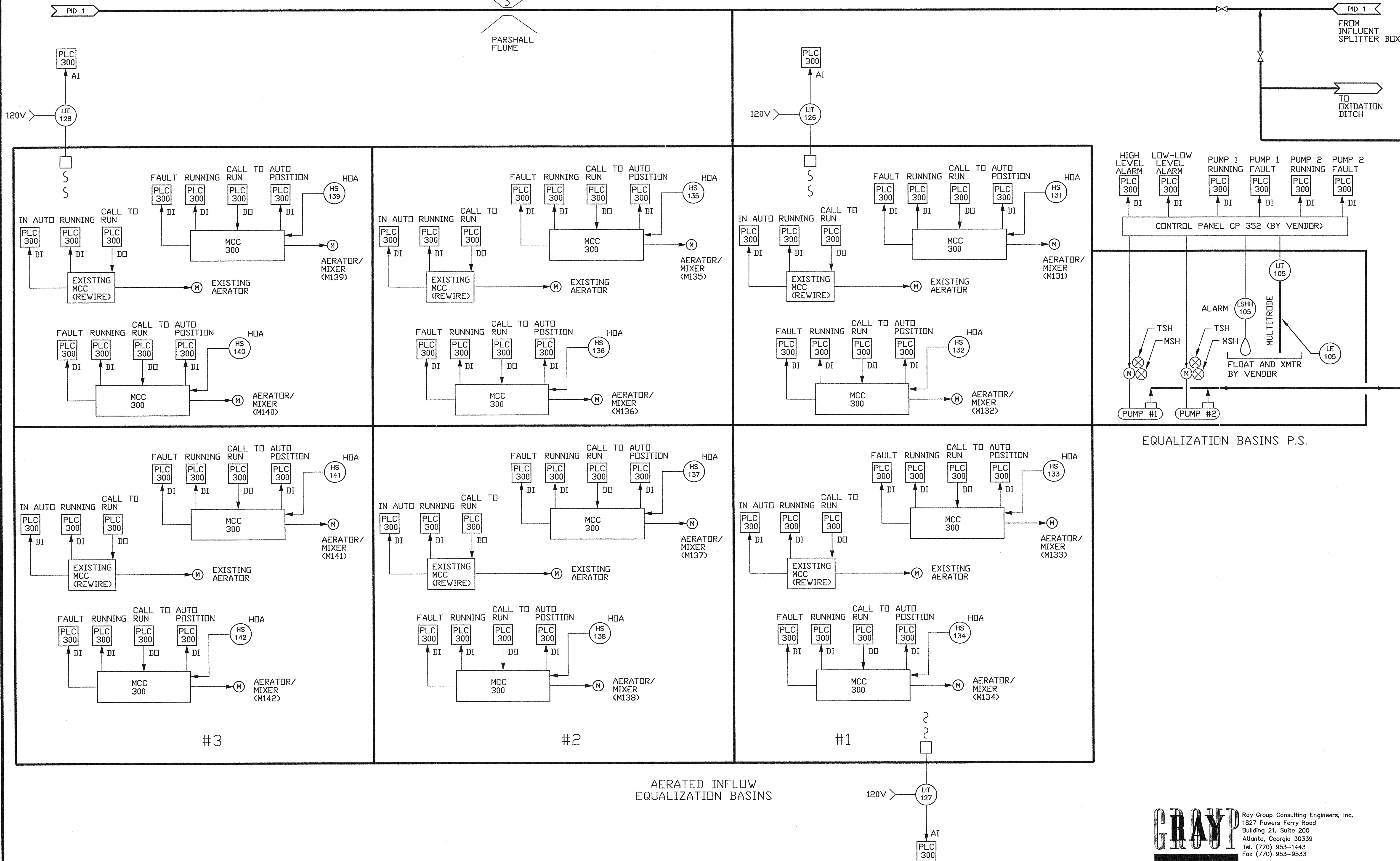
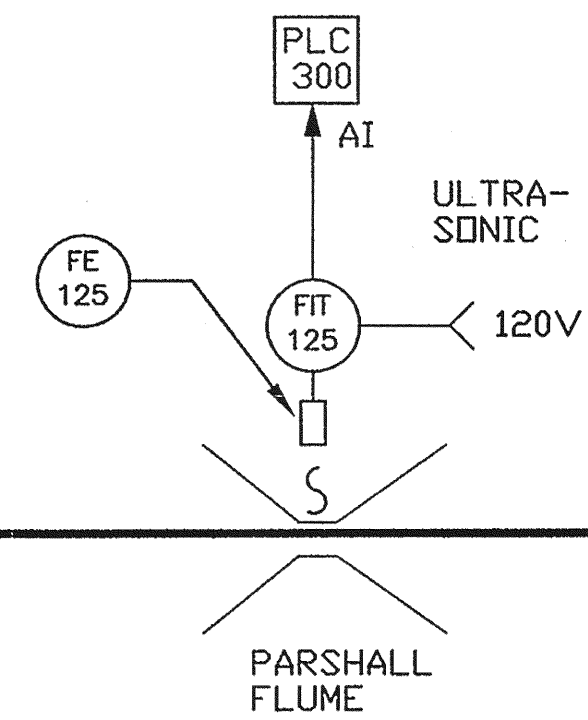
2430 HERODIAN WAY, SUITE 101
 SWYRNA, GEORGIA 30080
 (770) 952-2481
 FAX (770) 952-1064

**PROCESS & INSTRUMENTATION
DIAGRAM 2
NORTHSIDE WWT EXPANSION
CITY OF COMMERCE, GEORGIA**

SHEET No.
I-2

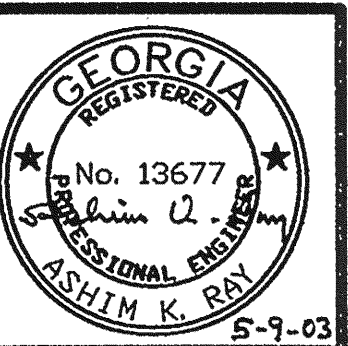
157 OF 159

APPENDIX A PAGE 4



EQUALIZATION BASINS P.S.

AERATED INFLOW
EQUALIZATION BASINS



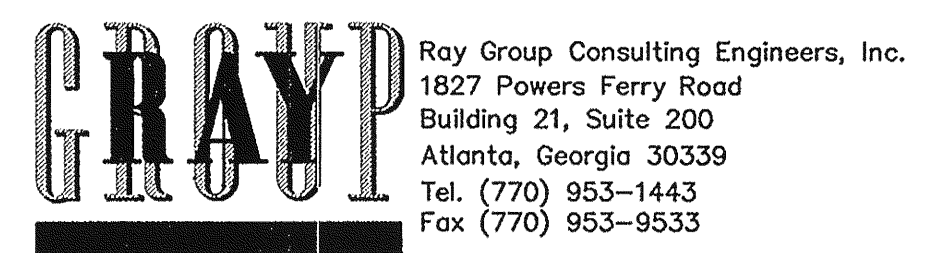
DATE	INT.	REVISION DESCRIPTION

STEVENS & PALMER
Engineering
INCORPORATED

2430 HERODIAN WAY, SUITE 101
SMYRNA, GEORGIA 30080
(770) 955-4848
FAX (770) 955-1064

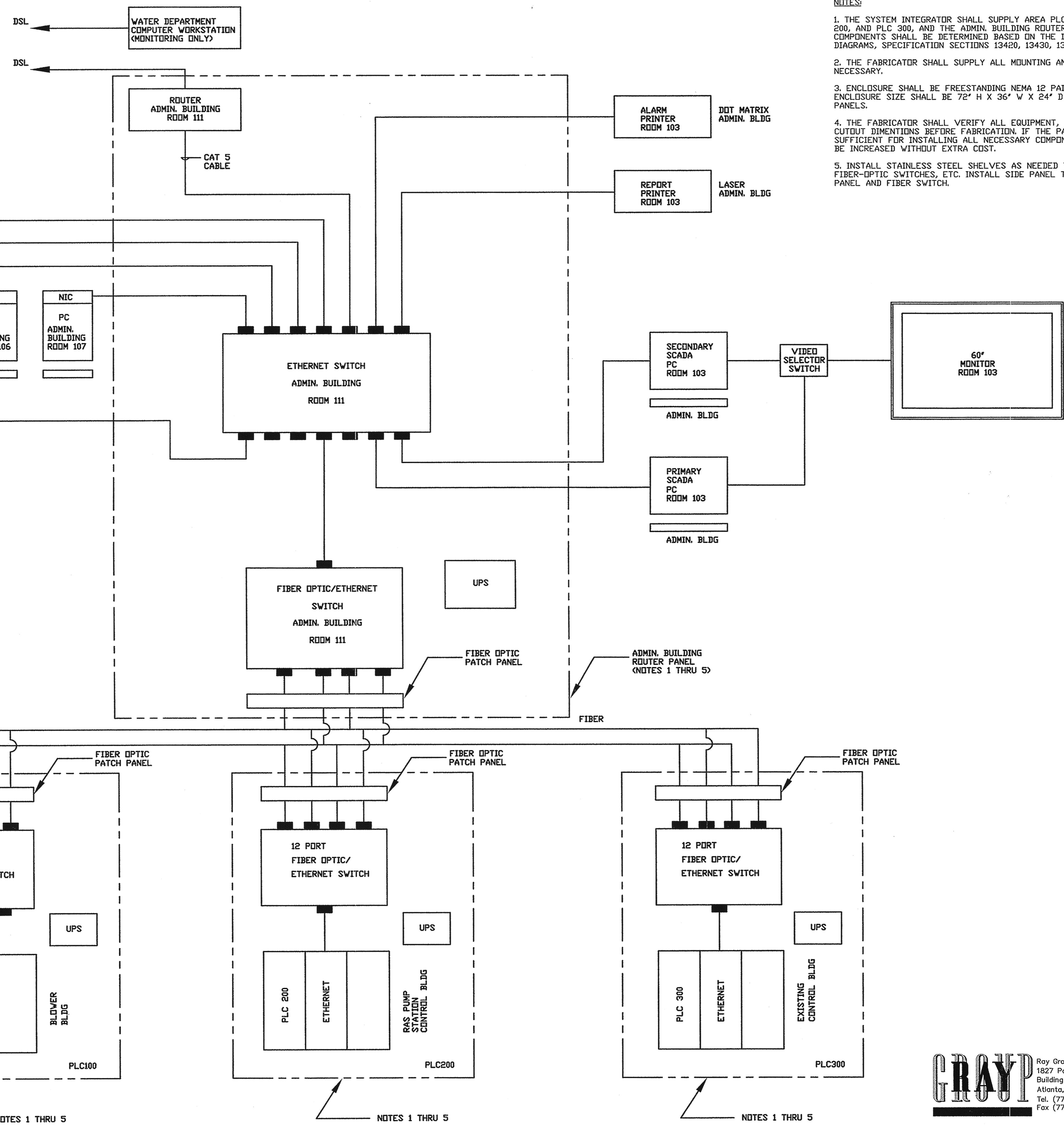
ALBANY SAVANNAH
AUGUSTA SMYRNA

**PROCESS & INSTRUMENTATION
DIAGRAM 3**
NORTHSIDE WWP EXPANSION
CITY OF COMMERCE, GEORGIA



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APPENDIX A PAGE 5



- NOTES:
1. THE SYSTEM INTEGRATOR SHALL SUPPLY AREA PLC CONTROL PANELS PLC 100, PLC 200, AND PLC 300, AND THE ADMIN. BUILDING ROUTER PANEL. THE EXACT PANEL COMPONENTS SHALL BE DETERMINED BASED ON THE I/O LIST, SCHEMATIC WIRING DIAGRAMS, SPECIFICATION SECTIONS 13420, 13430, 13450, AND 13615.
 2. THE FABRICATOR SHALL SUPPLY ALL MOUNTING AND SUPPORTING HARDWARE AS NECESSARY.
 3. ENCLOSURE SHALL BE FREESTANDING NEMA 12 PAINTED STEEL CONSTRUCTION. ENCLOSURE SIZE SHALL BE 72" H X 36" W X 24" D AND TYPICAL FOR FOUR (4) PANELS.
 4. THE FABRICATOR SHALL VERIFY ALL EQUIPMENT, DEVICE SPACINGS, AND PANEL CUTOFF DIMENSIONS BEFORE FABRICATION. IF THE PANEL INTERIOR SPACE IS NOT SUFFICIENT FOR INSTALLING ALL NECESSARY COMPONENTS, THE PANEL SIZE SHALL BE INCREASED WITHOUT EXTRA COST.
 5. INSTALL STAINLESS STEEL SHELVES AS NEEDED TO MOUNT MODEMS, INTERFACES, FIBER-OPTIC SWITCHES, ETC. INSTALL SIDE PANEL TO ACCOMMODATE FIBER PATCH PANEL AND FIBER SWITCH.

ALL WIRING TO PC BY CONTRACTOR TO WALL OUTLET (TYP. FOR 5)
PC BY OWNER

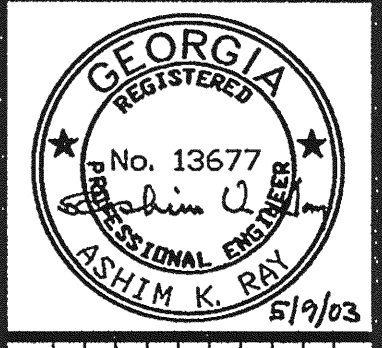
NIC - NOT IN CONTRACT

ALL WIRING TO PC BY CONTRACTOR TO WALL OUTLET
PC BY OWNER

NOTES 1 THRU 5

NOTES 1 THRU 5

NOTES 1 THRU 5



REVISION	DESCRIPTION	INIT.	DATE

DRAWING INFORMATION

PROJECT No. 15219-00-35
 DRAWING TITLE: 1719-SCADA
 SURVEYED BY: LS
 DRAWN BY: LS
 CHECKED BY: AKR
 APPROVED BY: AKR
 DATE: MARCH 2003
 SCALE: AS SHOWN

2430 HERODIAN WAY, SUITE 101
 SMYRNA, GEORGIA 30080
 (770) 953-1443
 FAX (770) 953-1064

Stevenson & Palmer
 Engineering & Construction
 INCORPORATED

ALBANY SAVANNAH AUGUSTA SMYRNA

PLC BLOCK DIAGRAM
NORTHSIDE WWP EXPANSION
 CITY OF COMMERCE, GEORGIA

GRAYP Ray Group Consulting Engineers, Inc.
 1827 Powers Ferry Road
 Building 21, Suite 200
 Atlanta, Georgia 30339
 Tel. (770) 953-1443
 Fax (770) 953-9533

APPENDIX B – See attached

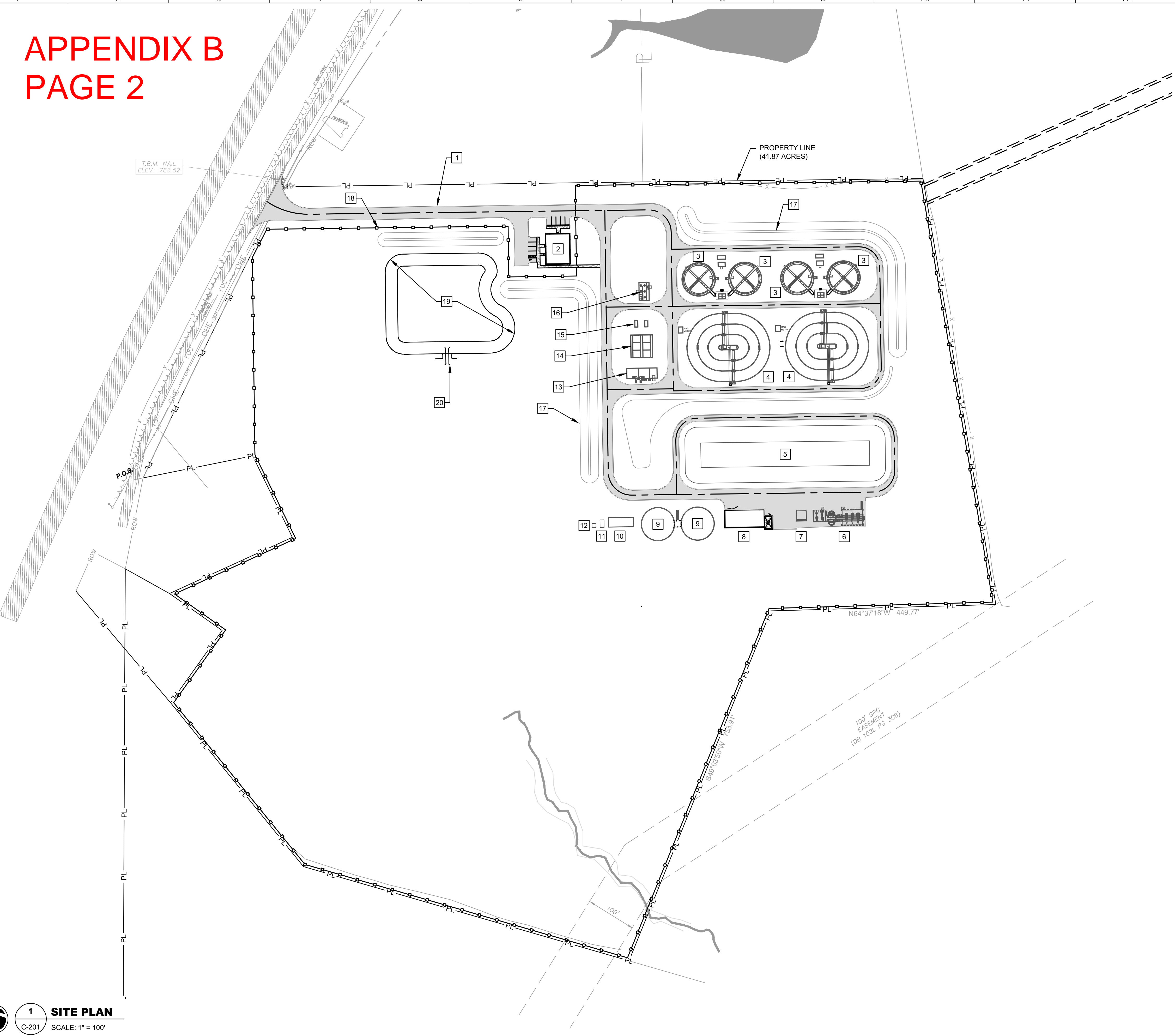
Page 1

Grove Creek WPCP Site Plan

APPENDIX B PAGE 2

T.B.M. NAIL
ELEV. = 783.52

PROPERTY LINE
(41.87 ACRES)



NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL SERVICE AND UTILITY LINES ON THE SITE AND WITHIN THE PROJECT CORRIDOR PRIOR TO BEGINNING EXCAVATION. UTILITIES LOCATED WITHIN THE FOOTPRINT OF THE PROPOSED UTILITY SHALL BE RELOCATED AS REQUIRED AND THE COST OF RELOCATION SHALL BE PART OF THE CONTRACT.
2. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED BY A TEMPORARY CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS.
3. GRADE AREAS ADJACENT TO STRUCTURE LINES TO DRAIN AWAY FROM STRUCTURES TO PREVENT PONDING.
4. WHEN FINISHED GRADING MEETS OR ABUTS CURBS, WALKS OR PAVEMENT, UPHILL GRADES SHALL BE SLIGHTLY HIGHER THAN PAVEMENT TO PERMIT PROPER DRAINAGE.
5. FIELD ADJUSTMENTS IN GRADE MUST BE APPROVED BY THE ENGINEER.
6. NO FILL MATERIAL IS TO BE STORED ON CONCRETE, ASPHALT OR PERVIOUS ROADS WITHIN SITE.
7. CONTRACTOR SHALL REFERENCE SPECIFICATIONS FOR CLEARING, GRUBBING, AND STOCK PILING SOIL.

EROSION CONTROL NOTE:

1. SEE ALSO CIVIL DRAWINGS FOR EROSION CONTROL PLANS.

KEY NOTES:

1. 24' WIDE ACCESS ROAD
2. ADMINISTRATION AND LAB BUILDING
3. CLARIFIER
4. ORBAL AERATION BASIN
5. EQUALIZATION BASIN
6. HEADWORKS
7. SEPTIC RECEIVING
8. DEWATERING BUILDING
9. DIGESTER
10. BLOWER BUILDING
11. ELECTRICAL ROOM
12. GENERATOR
13. CHEMICAL TANK FARM
14. TERTIARY FILTER
15. ULTRAVIOLET DISINFECTION
16. PARSHALL FLUME
17. PERIMETER SWALE
18. PERIMETER FENCING
19. RETENTION POND
20. EMERGENCY SPILLWAY

LEGEND

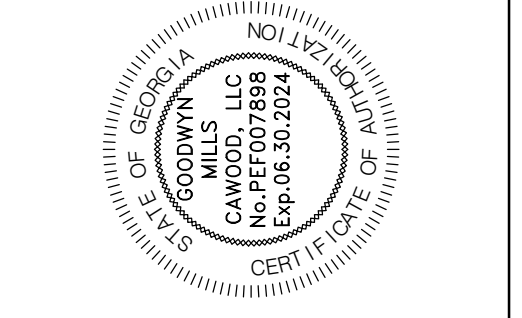
PROPERTY LINE	— PL —
PERIMETER FENCE	— x —
RETENTION POND	— [Symbol] —
ASPHALT ROAD	— [Symbol] —
ROAD CENTERLINE	— [Symbol] —
OFFSITE PROPERTY	— PL —
EXISTING ROAD	— [Symbol] —
FENCE	— x —
TREELINE	— [Symbol] —
OVERHEAD ELECTRIC	— OHE —
RIGHT OF WAY	— ROW —
EASEMENT	— [Symbol] —
WATERBODY	— [Symbol] —
STREAM CENTERLINE	— [Symbol] —

1 SITE PLAN

C-201 SCALE: 1" = 100'

This drawing is and shall remain the property of Goodwyn, Mills and Cawood, Inc. (GMC) and Goodwyn Mills Cawood LLC (GMC). Unauthorized use of any kind including use on other projects is prohibited. In the event that a conflict arises between the sealed drawings and the electronic files, the sealed drawings will govern.

GMC
6120 Powers Ferry Road NW,
Suite 200
Atlanta, GA 30339
T 770.952.2481



ISSUE	DATE	DESIGNER	DRAWN BY
30% DRAWINGS:	05.30.2024		GS
60% DRAWINGS:	08.29.2024		DS/MRA

Commerce 2.0 MGD
Grove Creek WPCP
Commerce, GA

GMC PROJ.# CATL230033
NOT - RELEASED FOR CONSTRUCTION

CIVIL SITE PLAN -
SITE LAYOUT

C-201