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Final Construction Report for the Ground-Water Collection System

Former Firestone Tire & Rubber Company
Albany, Dougherty County, Georgia

ATC Associates Inc. Project Number
12161.6156

ATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

January 15, 1998

Mr. Charles L. King, Jr.
Remedial Project Manager
South Superfund Remedial Branch
United States Environmental Protection Agency, Region IV
Atlanta Federal Center
100 Alabama Street, SW
Atlanta, Georgia 30303-3104

Subject: **Final Construction Report - Ground-Water Collection System Remedial Action**
Former Firestone Tire & Rubber Company Site
Albany, Georgia
ATC Associates Inc. Project 12161.6156

Dear Mr. King:

ATC Associates Inc. (ATC) on behalf of Bridgestone/Firestone, Inc. (BFS) is pleased to present this *Final Construction Report* for the Ground-Water Collection System Remedial Action (RA) recently completed at the former Firestone Tire & Rubber Company Site located in Albany, Dougherty County, Georgia. This report has been prepared in accordance with Section IV, Task III-E of the Statement of Work (SOW) for the former Firestone Tire & Rubber Company Site as contained in the Consent Decree, dated March 4, 1994, between the United States of America and Bridgestone/Firestone, Inc./Albany-Dougherty Payroll Development Authority.

If you have any questions concerning this document, please contact either Nicholas S. Fouts or Earl H. Scott at 770-427-9456.

Sincerely,

ATC Associates Inc.

Nicholas S. Fouts, P.E.
Senior Environmental Engineer

Earl H. Scott, P.G.
Vice President

James W. Beauchamp, P.E.
Consultant

cc: Mary Lou Winn - Georgia Environmental Protection Division
Stephen C. Jones - Jones, Day, Reavis & Pogue
Jane A. Moore - Bridgestone/Firestone, Inc.

1300 Williams Drive, Suite A • Marietta, GA 30066-6299 • (770) 427-9456 • FAX (770) 427-1907

FINAL CONSTRUCTION REPORT FOR THE GROUND-WATER COLLECTION SYSTEM REMEDIAL ACTION

FORMER FIRESTONE TIRE & RUBBER COMPANY SITE
ALBANY, DOUGHERTY COUNTY, GEORGIA

Submitted to:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION IV

Prepared for:

BRIDGESTONE/FIRESTONE, INC.
Nashville, Tennessee

Prepared by:

ATC ASSOCIATES INC.
Marietta, Georgia

January 15, 1998

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1.0 INTRODUCTION

Bridgestone/Firestone, Inc. (BFS) retained ATC Associates Inc. (formerly ATEC Associates Inc.) to construct the ground-water collection system at the former Firestone Tire & Rubber Company Site in Albany, Georgia. Site activities were conducted in general accordance with the *Remedial Action Plan* (RA Plan) *for the Ground-Water Collection System*, dated July 25, 1996. This section includes project background information, an overview of the Remedial Action Plan, and the Engineer's Certification.

1.1 Project Background

The Firestone Tire & Rubber Company Site is located in Dougherty County at 3300 Sylvester Road, approximately four miles east of Albany, Georgia. The facility, which encompasses 329.2 acres, is owned by the Albany-Dougherty Payroll Development Authority and was leased to the Firestone Tire & Rubber Company from 1968 to 1990. Pneumatic tires were manufactured at the facility from 1968 until 1986, when Firestone Tire & Rubber Company ceased operations.

In preparation for cessation of operations in 1986, Firestone performed initial assessment activities in 1985. Based on the results of these initial assessment activities, Firestone conducted several interim remedial activities including installation and operation of an interim ground-water collection and treatment system.

After a June 1988 Site Inspection, the United States Environmental Protection Agency (USEPA) proposed including the facility on the National Priorities List (NPL) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In October 1989, the site was listed on the NPL, and Bridgestone/Firestone, Inc. (BFS) subsequently entered into an Administrative Order by Consent with USEPA in 1990.

A Remedial Investigation/Feasibility Study (RI/FS) was conducted by BFS in accordance with the Administrative Order, and, on June 23, 1993, a Record of Decision (ROD) was issued by USEPA stipulating the selected Remedial Action (RA) for the site. In 1994, a Consent Decree was signed by BFS to conduct Remedial Design (RD) and RA at the site.

In 1995, BFS conducted design activities for the purpose of preparing a RD Report. Based on data obtained during these RD activities, USEPA issued an Explanation of Significant Difference (ESD) in March 1996. The 100% RD Report (Law Engineering and Environmental Services {LAW}, 1996) was issued on April 19, 1996 and approved by USEPA on June 28, 1996. Following approval of the 100% RD Report, ATC prepared the RA Plan for the ground-water collection system which was approved by USEPA on September 18, 1996.

1.2 Implementation of the Remedial Action Plan

The RA Plan, submitted to USEPA on July 26, 1996, was prepared to implement the Remedial Action described in the 100% Remedial Design Report for the ground-water collection system at the Firestone Tire & Rubber Company Site in Albany, Georgia. USEPA approved the RA Plan in a letter from Mr. Charles King to Mr. Timothy Bent, dated September 18, 1996. The following were included in the RA Plan:

- a ground-water remedial action work plan including:
  - description of each of the tasks to be performed for the installation of the ground-water collection system;
  - a description of the work products to be submitted to USEPA;
  - schedules for implementation of the RA Plan and submission of the required deliverables;
- a project management plan with provisions for monthly progress reports to USEPA during implementation of the Plan and meetings / presentations to USEPA at the conclusion of the RA;
- the community relations plan, which was in accordance with the 1994 Consent Decree;
- a Project Delivery Strategy which addressed the management approach to implementing the RA, including procurement methods, contracting strategy, and contractor and equipment availability concerns;
- a Construction Management Plan which described how construction activities were to be implemented and coordinated with USEPA during the RA, and how construction changes were to be reviewed and approved by USEPA;
- the Construction Management Plan which designated the RA Coordinator and described other RA Team personnel, responsibilities, lines of communication and authority;

- a Construction Quality Assurance Plan which described the management, documentation, procedures, and materials used in the construction of the ground-water collection system; and

- a Construction Health and Safety Plan.

1.3 Certification

Representatives of ATC observed, documented, and supervised the implementation of the RA Plan. ATC representatives worked under the direction of Earl H. Scott, P.G. and James W. Beauchamp, P.E. Mr. Beauchamp is the certifying engineer (Georgia P.E. 20619). RA Plan activities began on November 4, 1996 and were substantially complete on November 16, 1996. The Final Construction Inspection was conducted on September 4, 1997. A representative of the certifying engineer was present during the remedial activities. The required Certification is included on the following page.

CERTIFICATION

An independent registered professional engineer employed by ATC Associates Inc. directed the implementation of the Remedial Action Plan at Firestone's former facility in Albany, Georgia. The professional engineer (James W. Beauchamp) directed the activities performed by technicians and engineers required to document compliance with the EPA approved RA Plan. Based on the monitoring of field activities, the compliance with the Construction Quality Assurance Plan, and observations made by the professional engineer's representatives, James W. Beauchamp, P.E. hereby certifies the ground-water recovery system, as presented in the RD documents, was installed in general accordance with the approved project plans and specifications.

GEORGIA REGISTERED No. 20619 PROFESSIONAL ENGINEER JAMES W. BEAUCHAMP

James W. Beauchamp, P.E.
Senior Process Engineer
Georgia Registration No. 20619

2.0 CONSTRUCTION ACTIVITIES

The RA Plan included the scope of work to be performed in the RA, the schedule for the RA, a project management plan, a data management plan, and a community relations plan. This section of the Final Construction Report includes the RA scope of work, a review of the project management activities and a summary of the community relations tasks.

2.1 Remedial Action Scope of Work

The tasks performed during implementation of the RA were modifications to the existing ground-water collection system. Details of the ground-water collection system modifications were presented in the Design Specifications (Appendix A) of the 100% RD Report (LAW 1996). The existing interim ground-water collection system at the site required modification to meet the specifications for the final Remedial Design presented in the 100% RD Report. These modifications included demolition of portions of the existing ground-water collection system, inspection of the remaining existing equipment, and installation of additional equipment for the final ground-water collection system.

The existing ground-water collection system was composed of two ground-water recovery wells (PTW-1 and MW-1-3) with submersible pumps, and an associated air-sparging treatment system. The recovery wells were connected to the air-sparging system by subsurface piping. The air-sparging system included a storage tank, blower, and associated electrical systems and controls. Subsurface piping also connected the air-sparging system to a discharge manhole, where effluent is discharged to the POTW.

2.1.1 Demolition and Removal

Equipment from three areas of the ground-water remedial action system was demolished and removed during implementation of the RA. These areas were:

- the piping between ground-water recovery wells PTW-1 and MW-1-3 and the air sparging tank;
- the air sparging system, including the fiberglass storage tank, blower, and associated electrical systems and controls; and,
- the discharge piping between the air sparging tank and the discharge manhole.

This equipment was demolished and removed in accordance with the Specifications presented in the 100% RD Report.

2.1.2 Inspection of Existing Equipment

The two existing recovery pumps and pulse sending units (in recovery wells PTW-1 and MW-1-3), controller, air compressor, air dryer, air filters, and appurtenances were inspected in accordance with the Specifications presented in the 100% Remedial Design Report. Equipment which did not meet the specifications in the RD was repaired or replaced with equipment which met these specifications.

2.1.3 Modification of Existing Equipment

After demolition and removal of unneeded portions of the interim ground-water collection system, and inspection of the remaining portions of the system, modifications and additions were made to the remaining equipment. These modifications included:

- alteration of the four recovery well heads to elevations below grade, and installation of recovery well vault boxes, and locking covers with gaskets;
- installation of recovery well pumps in wells MW-1-2 and MW-1-1;
- installation of pump controllers for wells MW-1-2 and MW-1-1;
- installation of flow counters to the four recovery well controllers to count pump pulses, and modification of the recovery well controllers to operate the flow counters at the control panel;
- reconfiguration of the well heads to allow for sampling ports and the presence of piping for influent compressed air, bubbler controller, and effluent water;
- trenching, installation, and backfilling of subsurface recovery well piping to connect the four recovery wells to the control room;
- modification of the piping and controls in the control room to accept the contingent granular activated carbon units;
- installation of an effluent sampling port in the control room for the combined ground-water flow; and,
- trenching, installation, and backfilling of subsurface effluent discharge piping to connect the control room with the discharge to the POTW.

These activities were performed in accordance with the Specifications presented in Appendix A of the 100% RD Report.

2.1.4 Post-Construction Activities

The scope of work for the Ground-Water Remedial Action Work Plan encompassed construction activities and associated reporting. Activities scheduled or performed after completion of the construction modifications to the ground-water collection system, such as baseline ground-water quality sampling, system activation, ground-water quality monitoring, compliance monitoring and effluent monitoring have been, or will be, implemented as specified in the Performance Standards Verification Plan (Appendix D of the 100% RD Report). Baseline ground-water monitoring was conducted on November 20-21, 1996 and reported to USEPA in a letter, dated January 22, 1997. System activation was accomplished at the completion of the construction activities on or about November 16, 1996. Monthly system effluent monitoring has been, and will continue to be, conducted by the City of Albany, in accordance with the POTW discharge permit (see Appendix B). A Final Operations and Maintenance (O & M) manual was prepared after completion of the construction modifications to the ground-water collection system and submitted to USEPA on August 11, 1997.

2.2 Project Management Plan

The Project Management Plan described the project management team, which was responsible for implementing the RA Plan, the schedule for implementing the RA Plan, monthly progress reports on the status of the RA, the preconstruction conference call, the prefinal / final construction inspection, and the Final Construction Report.

2.2.1 Completion of Remedial Action

The requirements for the completion of Remedial Action were described in detail in the Performance Standards Verification Plan. In general, the Remedial Action is to be considered complete after three consecutive years of sampling resulting in concentrations which do not exceed ROD-specified clean-up levels in the recovery and compliance wells.

2.2.2 Post-Remedial Action Activities

The activities required after completion of the Remedial Action were described in the Performance Standards Verification Plan. Generally, post remedial action ground-water monitoring will occur five years after completion of the remedial action. Ground-water samples will be collected from the four collection system wells and seven compliance monitoring wells and analyzed for the three ROD-specified constituents of concern. If, after five years, the ground-water samples do not indicate constituents of concern above ROD-specified clean-up levels, the wells will be abandoned in accordance with state requirements.

2.2.3 Monthly Status Reports

Each month a brief report has been, and will continue to be, prepared which summarizes the actions taken at this site or regarding this site during the preceding month. These reports have outlined sampling results, submittal of deliverables, impending planned activities, delays encountered, schedule modifications, and community relations plan activities. These reports have been submitted to USEPA on approximately the ninth day of each month.

2.2.5 Prefinal / Final Construction Inspection

During the period November 23, 1996 to July 15, 1997, while conducting prefinal construction inspection activities, US EPA identified and required that the following issues be addressed prior to approval of the RA:

- Repair or replacement of one well controller;
- Compressed air filter (for the removal of oil/water from the air supply) drain to be hard piped to the sanitary sewer;
- Standing water in each of the recovery well vaults;
- Standing water in the discharge vault;
- Pipe supports for the compressed air line between the aftercooler and the air dryer;
- Gaskets for the recovery well vault covers

BFS/ATC responded to these requirements by taking the following actions:

- The well controller was replaced with a new one, and the original controller was subsequently repaired and is stored on site for future use.
- A drain line was installed from the compressed air filter to the sanitary sewer.
- Standing water in each of the recovery vaults was determined to be the result of surface water (during periods of heavy rainfall) following the path of the pipe bedding material, and collecting in the vaults. Concrete was placed in the bottom of each vault to eliminate this occurrence.
- A hole in the bottom of the discharge vault was located and sealed with elastomeric sealant.
- Pipe supports were installed on the referenced portion of the compressed air line.
- Gasket material was installed along the rim of each recovery well vault, and stainless steel bolts were installed to secure the vault covers to the vault base.

During the Final Construction Inspection on September 4, 1997, US EPA observed the functioning system and the results of the actions to address issues raised during the Prefinal Construction Inspection. As a result of this inspection, representatives of US EPA verbally approved completion of the Remedial Action activities.

2.2.6 Final Construction Report

This document, the *Final Construction Report,* has been prepared in accordance with the RA Plan. As required, this report includes:

- A brief description of the resolution of deficiencies identified in the Prefinal Construction Inspection Report;
- An explanation of modifications, if any, made during the RA construction to the design presented in the 100% RD Report;
- Project Record Drawings of the ground-water collection system (contained in Appendix A);
- A summary of the construction work defined in the SOW; and,
- A certification that the construction work has been completed.

2.3 Community Relations Plan

The purpose of the community relations plan, as provided in the Consent Decree, was to present the public and interested parties with information on the Remedial Action at the site. The USEPA has maintained an information repository at the Dougherty Public Library in the Albany, Georgia as part of their community relations plan. The repository contains information on the Firestone Tire & Rubber Company Site. The address of the repository is:

Dougherty Public Library
300 Pine Avenue
Albany, Georgia 31701

Information is also available at the USEPA Region IV office in Atlanta, Georgia:

Betty Winter, Community Relations
South Superfund Remedial Branch
EPA
Atlanta Federal Center
100 Alabama Street, S.W.
Atlanta, Georgia 30303
(800) 435-9234

3.0 CONCLUSIONS

Implementation of the RA Plan between November 4, 1996 and September 4, 1997 has successfully addressed the issue of ground-water collection at the site. Additional tasks at this site include regular operation and maintenance and system monitoring.

3.1 System Operation and Performance

The ground-water collection system installed and activated in general accordance with the 100% RD Report and the Remedial Action Plan appears to be successfully collecting and removing impacted ground water from the site. Based upon flow data and discharge water analyses, the system is removing ground water from all four recovery wells and discharging the collected ground water to the City of Albany POTW. Analyses of the discharge water provided by the City of Albany indicate that concentrations in the ground water are below any mandated discharge limits. The Discharge Permit and October 1997 results are included as Appendix B.

3.2 Path Forward

Future site activities anticipated include monthly system operation and maintenance (O&M), ground-water quality monitoring, compliance monitoring and effluent monitoring. O&M has been ongoing since system activation and is conducted in accordance with the *Final Operation and Maintenance Manual,* dated August 11, 1997. Ground-water quality monitoring and compliance will proceed upon approval of the Final Construction Report by USEPA at the frequency described in the Performance Standards Verification Plan. Effluent monitoring is being conducted by the City of Albany POTW on a monthly basis. Results from the discharge sampling will be included in the applicable Monthly Project Progress Report.

4.0 REFERENCES

1. ATC, 1997, *Final Operation and Maintenance Manual for the Ground-Water Collection System*, Firestone Tire & Rubber Company Site, Albany, Georgia. ATC Associates Inc., Marietta, Georgia, August 11, 1997.

2. ATEC 1996, *Remedial Action Work Plan*, Firestone Tire & Rubber Company Site, Albany, Georgia. ATEC Associates, Inc., Marietta, Georgia, July 25, 1996.

3. LAW 1996, *100% Remedial Design Report for the Ground-Water Collection System*, Firestone Tire & Rubber Company Superfund Site, Albany, Georgia. Law Engineering and Environmental Services, Kennesaw, Georgia, April 19, 1996.

4. LAW 1994, *Health and Safety Plan*, Firestone Tire & Rubber Company Superfund Site, Albany, Georgia. Law Environmental, Inc., Kennesaw, Georgia, April 1994.

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

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FINAL (100%) DESIGN DRAWINGS
GROUND-WATER COLLECTION SYSTEM

FIRESTONE TIRE AND RUBBER COMPANY SITE
ALBANY, GEORGIA
PROJECT NO. 41-4537

PREPARED BY:

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

APRIL 19, 1996

RECORD DRAWINGS PREPARED BY:

VATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS
1300 Williams Drive . Marietta, GA 30066
(770) 427-9456 . FAX (770) 427-1907
ATC PROJECT NO. 12161.0136

DRAWN	
CHECKED	
APPROVED	
DATE	1/14/97

INDEX OF DRAWINGS

PAGE NO.	DRAWING NO.	TITLE
–		**GENERAL INFORMATION**
		COVER SHEET
	GR-001	INDEX OF DRAWINGS, ABBREVIATIONS AND SYMBOLS
		CIVIL
2	CL-001	SITE PLAN
3	CL-002	SITE LAYOUT (EXISTING)
4	CL-003	TRENCH DETAILS
		INSTRUMENTATION
5	PI-001	P & ID LEGEND
6	PI-002	PROCESS FLOW DIAGRAM
7	PI-003	P & ID
		MECHANICAL
8	ME-001	PIPING LAYOUT
9	ME-002	RECOVERY WELL DETAILS
10	ME-003	MECHANICAL DETAILS
11	ME-004	TREATMENT SYSTEM BUILDING LAYOUT

ABBREVIATIONS AND SYMBOLS

AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
APPROX	APPROXIMATE	MIN	MINIMUM
BVC	BEGIN VERTICAL CURVE	MSL	MEAN SEA LEVEL
℄	CENTER LINE	MW	MONITORING WELL
CO	CLEANOUT	NO	NUMBER
CMP	CORRUGATED METAL PIPE	NTS	NOT TO SCALE
DEG	DEGREE	OD	OUTSIDE DIAMETER
DIA	DIAMETER	PC	POINT OF CURVATURE
DIM	DIMENSION	PI	POINT OF INTERSECTION
DWG	DRAWING	℞	PROPERTY LINE
EL	ELEVATION	PT	POINT OF TANGENCY
EXIST	EXISTING	PVC	POLYVINYLCHLORIDE
EVC	END VERTICAL CURVE	RCP	REINFORCED CONCRETE PIPE
EW	EACH WAY	R/W	RIGHT OF WAY
FT	FEET	SS	STAINLESS STEEL
HDPE	HIGH DENSITY POLYETHYLENE	STA	STATION
HORIZ	HORIZONTAL	TYP	TYPICAL
ID	INSIDE DIAMETER	UV	ULTRAVIOLET
INV	INVERT	VERT	VERTICAL
LF	LINEAR FEET	VLDPE	VERY LOW DENSITY POLYETHYLENE
MAX	MAXIMUM	W/	WITH

GENERAL NOTES

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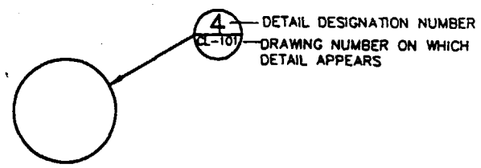
DETAILS



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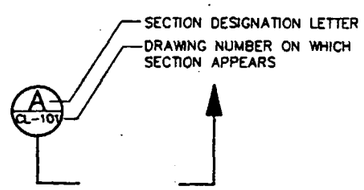

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CL-001 — DRAWING NUMBER ON WHICH DETAIL IS IDENTIFIED

SECTION

DRAWING NUMBER ON WHICH SECTION APPEARS — (A / CL-101) — SECTION DESIGNATION LETTER

CL-001 — DRAWING NUMBER ON WHICH SECTION IS IDENTIFIED

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ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS

1300 Williams Drive · Marietta, GA 30066

(770) 427-9456 · FAX (770) 427-1907

ATC PROJECT NO. 12161.6136

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DESIGNED
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IN CHARGE
DATE 19 APR 96

FIRESTONE TIRE AND RUBBER COMPANY SITE

SUBMITTED

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

APPROVED

INDEX OF DRAWINGS, ABBREVIATIONS AND SYMBOLS
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE: NONE

CONTRACT: 41-4537

DWG NO.	REV	PAGE NO
GR-001	0	1

PLOT DATE: 11/26/96

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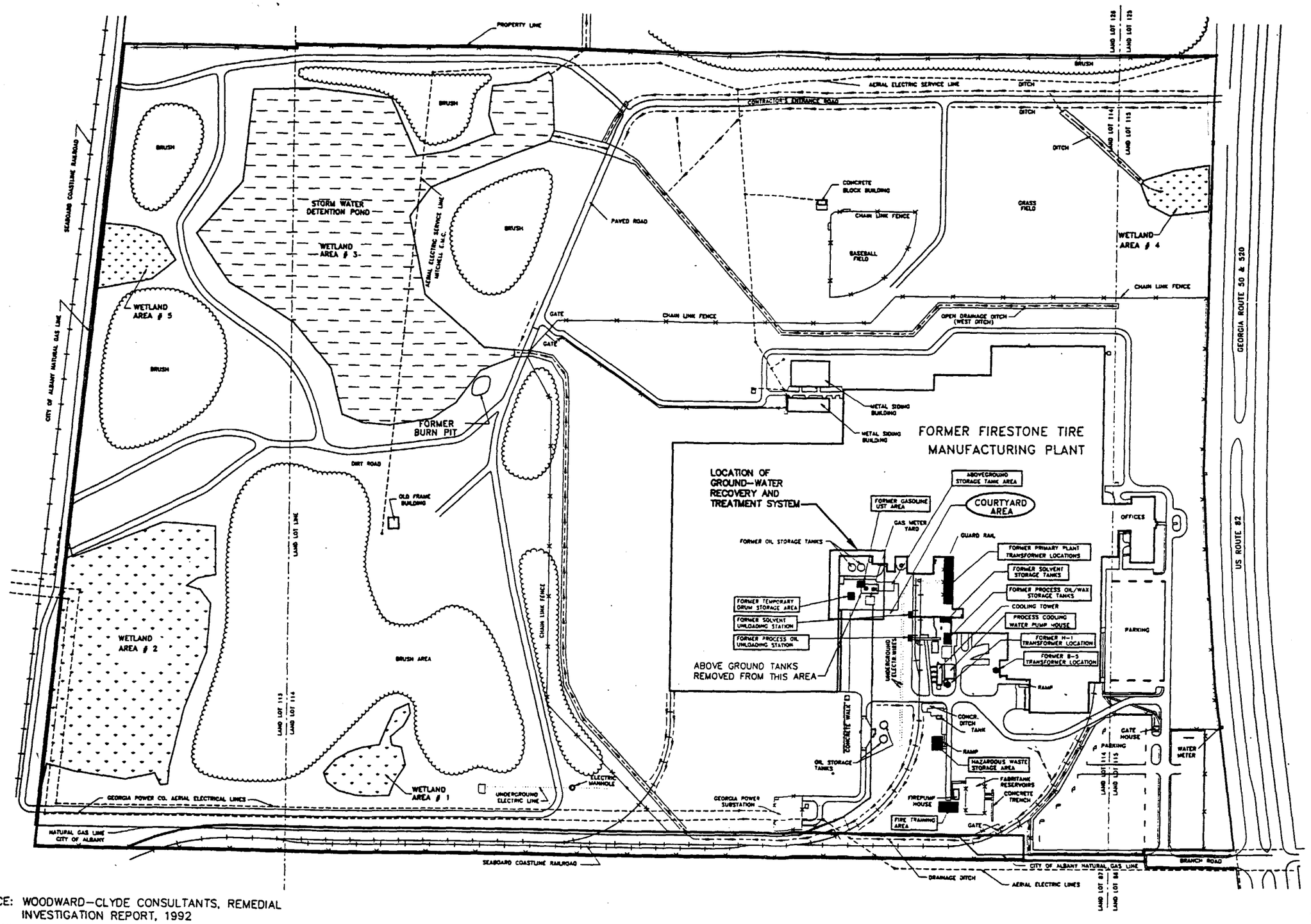

SOURCE: WOODWARD-CLYDE CONSULTANTS, REMEDIAL INVESTIGATION REPORT, 1992

LEGEND

- TREE AND BRUSH AREAS
- WETLAND AREAS [Defined by 9 Jan 1990 wetland survey]
- SURFACE WATER RUNOFF DITCH
- AERIAL ELECTRICAL LINES
- UNDERGROUND ELECTRICAL LINES
- FENCE LINE
- RAILROAD TRACKS

NOTE:
THE LOCATION OF DIRT ROAD SYSTEM IN THE SOUTHERN HALF OF THE SITE IS APPROXIMATE.

RECORD DRAWINGS PREPARED BY:
VATC ASSOCIATES INC.
ENVIRONMENTAL, GEOTECHNICAL AND MATERIALS PROFESSIONALS
1300 Williams Drive Marietta, GA 30066
(770) 427-9456 FAX (770) 427-1907
ATC PROJECT NO. 12181.8156

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DESIGNED
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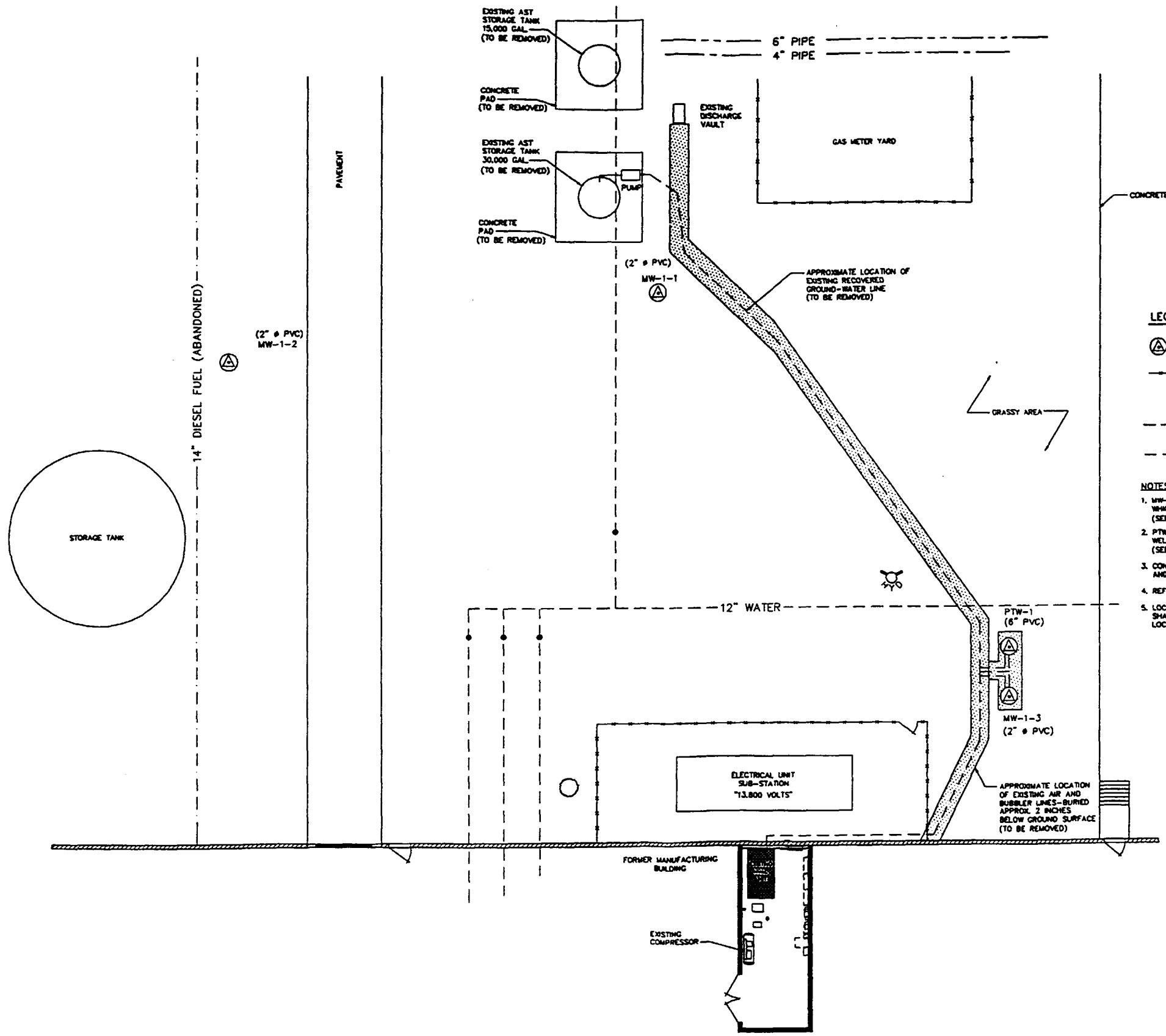
IN CHARGE
DATE 15 MAR 96

FIRESTONE TIRE AND RUBBER COMPANY SITE

SUBMITTED
LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
APPROVED

SITE PLAN
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE 1"=200'
CONTRACT 41-4537
DWG. NO. CL-001 REV 0 PAGE NO 2



LEGEND

- MW-1-3 RECOVERY WELL
- FENCE
- FIRE HYDRANT
- WATERLINE VALVE
- EXISTING RECOVERED GROUND-WATER LINE

NOTES:

1. MW-1-1 AND MW-1-2 ARE EXISTING MONITORING WELLS WHICH SHALL BE CONVERTED TO RECOVERY WELLS. (SEE DWG. ME-002 FOR COMPLETE DETAILS).
2. PTW-1 AND MW-1-3 ARE EXISTING OPERABLE RECOVERY WELLS WHICH SHALL BE MODIFIED. (SEE DWG. ME-002 FOR COMPLETE DETAILS).
3. CONTRACTOR IS RESPONSIBLE FOR LOCATION, IDENTIFICATION AND PROTECTION OF ALL UTILITIES LOCATED WITHIN THE WORK AREA.
4. REFER TO DWG. ME-001 FOR REQUIRED PIPING IN EACH TRENCH.
5. LOCATIONS OF EXISTING WELLS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY WELL LOCATIONS, ALIGNMENT AND LOCATIONS OF PIPE TRENCHES.

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REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED
DRAWN
CHECKED 8-26-97
INCHARGE 8-26-97
DATE 19 APR 96

FIRESTONE TIRE AND RUBBER COMPANY SITE

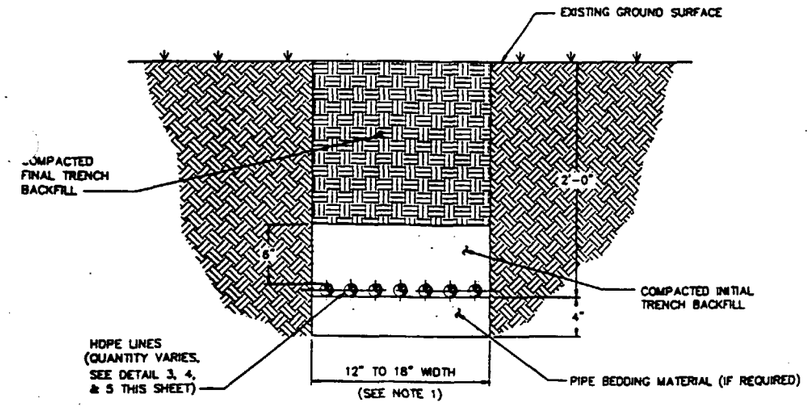
SUBMITTED

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

APPROVED

SITE LAYOUT (EXISTING)
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE 1"=10'
CONTRACT 41-4537
DWG. NO. CL-002 | REV 0 | PAGE 3

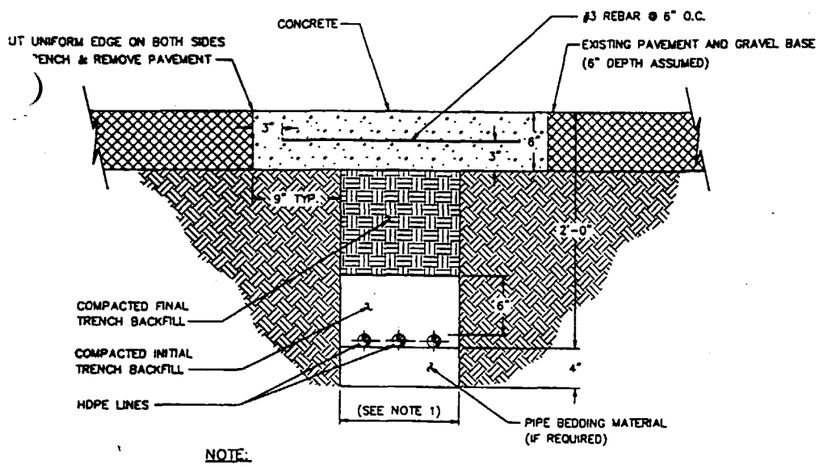


NOTE:

1. TRENCHES SHALL BE EXCAVATED TO MINIMUM WIDTH NECESSARY FOR INSTALLATION OF PIPES. TRENCH SIDES SHALL BE AS NEARLY VERTICAL AS POSSIBLE, IN COMPLIANCE WITH OSHA REQUIREMENTS FOR TRENCH STABILITY.

TYPICAL TYPE "A" TRENCH

DETAIL 1 — SCALE: 1-1/2"=1'-0" — CL-003 / CL-002

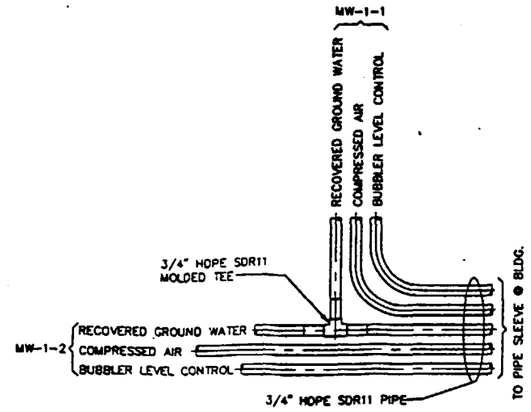


NOTE:

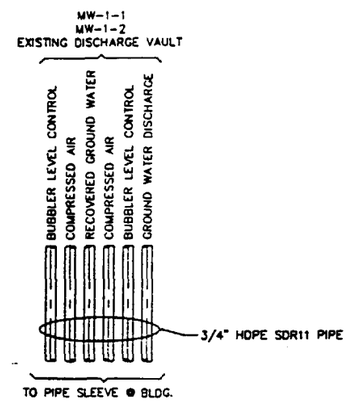
1. TRENCHES SHALL BE EXCAVATED TO MINIMUM WIDTH NECESSARY FOR INSTALLATION OF PIPES. TRENCH SIDES SHALL BE AS NEARLY VERTICAL AS POSSIBLE, IN COMPLIANCE WITH OSHA REQUIREMENTS FOR TRENCH STABILITY.

TYPICAL TYPE "B" TRENCH
(PAVEMENT CROSSING)

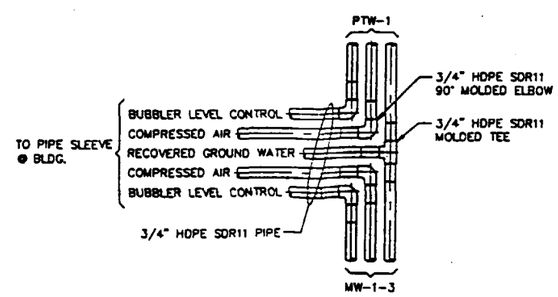
DETAIL 2 — SCALE: 1-1/2"=1'-0" — CL-003 / CL-002



DETAIL 3 — SCALE: 1-1/2"=1'-0" — CL-003 / ME-001



DETAIL 4 — SCALE: 1-1/2"=1'-0" — CL-003 / ME-001



DETAIL 5 — SCALE: 1-1/2"=1'-0" — CL-003 / ME-001

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(770) 427-9456 FAX (770) 427-1907
ATC PROJECT NO. 12161 8158

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FIRESTONE TIRE AND RUBBER COMPANY SITE

SUBMITTED

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

APPROVED

TRENCH DETAILS
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE: AS SHOWN
CONTRACT: 41-4537
DWG. NO.: CL-003 | REV: 0 | PAGE NO.: 4

PLOT DATE: 01/06/97

CADD FILE: D:\ACAD\JOBS\ATC\CL-003

BALL VALVE, CLOSED
BALL VALVE, OPEN
BUTTERFLY VALVE
GATE VALVE
GLOBE VALVE
CHECK VALVE
PRESSURE RELIEF OR SAFETY VALVE

VALVE OR DEVICE
FLANGED CONNECTION
SAUNDERS DIAPHRAGM VALVE

VALVE ACTUATOR SYMBOLS

PNEUMATIC W/ POSITIONER
PNEUMATIC W/ SOLENOID
ELECTRIC
ELECTRIC W/ POSITIONER
VALVE ACTUATOR W/ATTACHED ELECTRO-PNEUMATIC CONVERTER

HYDRAULIC
SOLENOID
MANUAL
FAIL OPEN
FAIL CLOSED
3-WAY VALVE, FAIL OPEN TO PATH A-C
FAIL LOCKED (POSITION DOES NOT CHANGE)
FAIL INDETERMINATE

SYMBOL IDENTIFICATION

1ST LETTER OF ISA TABLE
SUCCEEDING LETTERS
UNIT NUMBER (WHEN MULTIPLE SETS)
EQUIPMENT NUMBER
PROCESS NUMBER
FIELD MOUNTED INSTRUMENT
REAR OF PANEL MOUNTED DEVICE
PANEL MOUNT INSTRUMENT
FUNCTION DESIGNATOR SEE ABREVIATIONS & LETTER SYMBOLS LIST
PLC OR DCS FUNCTION OR INPUT/OUTPUT
DENOTES LOGIC FUNCTION OR COMPUTATION PERFORMED BY PLC OR DCS SOFTWARE
OR INTERLOCK, SEE CONTROL DIAGRAM
SOFTWARE INTERLOCK
ANALOG SIGNAL
DISCRETE SIGNAL
PNUEMATIC SIGNAL
PULSE FREQUENCY SIGNAL
INTERFACE TO OR FROM DWG. NO. INTERFACE LETTER
PROCESS OR SIGNAL LINE CONTINUATION

INSTRUMENT SOCIETY OF AMERICA TABLE 7 8

LETTER	FIRST LETTER (S) PROCESS OR INITIATING VARIABLE	MODIFIER	SUCCEEDING LETTERS READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (+)		ALARM		
B	BURNER FLAME		USERS CHOICE (+)	USERS CHOICE (+)	USERS CHOICE (+)
C	CONDUCTIVITY			CONTROL	
D	DENSITY (S.G)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			
G	GAUGE		GLASS	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME OR SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTION				MIDDLE
N	USERS CHOICE (+)		USERS CHOICE (+)	USERS CHOICE (+)	USERS CHOICE (+)
O	USERS CHOICE(+)		ORIFICE		
P	PRESSURE (OR VACUUM)		POINT (TEST CONNECTION)		
Q	QUANTITY OR EVENT (+)	INTEGRATE	INTEGRATE		
R			RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (+)		MULTIFUNCTION (+)	MULTIFUNCTION (+)	MULTIFUNCTION (+)
V	VISCOSITY			VALVE OR DAMPER	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED (+)		UNCLASSIFIED (+)	UNCLASSIFIED (+)	UNCLASSIFIED (+)
Y	USERS CHOICE (+)			RELAY OR COMPUTE (+)	
Z	POSITION			DRIVE, ACTUATE OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.

ABBREVIATIONS & LETTER SYMBOLS

AC	ALTERNATING CURRENT
ACK	ACKNOWLEDGE
AHP	AIR HIGH PRESSURE
AFD	ADJUSTABLE FREQUENCY DRIVE
ALTN	ALTERNATION
AM	AUTO-MANUAL
B/W	BACKWASH
CL_2 etc.	(TYPICAL: USE STANDARD CHEMICAL ELEMENT ABBREVIATION)
COMP	COMPRESSOR
CH_4	METHANE
D	DRAIN
DC	DIRECT CURRENT
DISC	DISCHARGE
DO	DISSOLVED OXYGEN
EF	EXHAUST FAN
EFF	EFFLUENT
EM	EMERGENCY
FCL_2	FREE CHLORINE RESIDUAL
FP-X	FIELD PANEL NO. X
GAL	GALLONS
GPM	GALLONS PER MINUTE
HOA	HAND-OFF-AUTO
LEL	LOWER EXPLOSIVE LIMIT
LOR	LOCAL-OFF-REMOTE
LR	LOCAL-REMOTE
MA	MANUAL-AUTO
MCC	MOTOR CONTROL CENTER
MCP	MAIN CONTROL PANEL
MFR	MANUFACTURER
MOA	MANUAL-OFF-AUTO
MTD	MOTOR TEMPERATURE DETECTOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPT	NATIONAL PIPE TAPER
OC	OPEN-CLOSE (D)
OCR	OPEN-CLOSE-REMOTE
OCA	OPEN-CLOSE-AUTO
OO	ON-OFF
OOA	ON-OFF-AUTO
OOL	ON-OFF-LOCAL
OOR	ON-OFF-REMOTE
OSC	OPEN-STOP-CLOSE
pH	HYDROGEN ION CONCENTRATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
POTW	PUBLICALLY OWNED TREATMENT WORKS
PSV	PRESSURE SAFETY VALVE
PVC	POLYVINYL CHLORIDE
SEQ	SEQUENCE
SP	SAMPLING PORT
SS	START-STOP
SW	SOCKET WELD
TORQ	TORQUE
TURB	TURBIDITY
UPS	UNINTERRUPTIBLE POWER SUPPLY
VIB	VIBRATION
Δ	DIFFERENCE
Σ	SUM
X	MULTIPLY
÷	DIVIDE
√	SQUARE ROOT
>	SELECT HIGHEST SIGNAL
<	SELECT LOWEST SIGNAL
#/HR	POUNDS PER HOUR
ug/L	MICROGRAMS PER LITER

120 V — 120 VOLT, 60 Hz POWER
480 V — 480 VOLT, 60 Hz, 3 PHASE POWER
* * PACKAGE SYSTEM
DENOTES EQUIPMENT IN PACKAGE SYSTEM
IF REQUIRED

ELEMENT SYMBOLS

FLUME
WEIR
ORIFICE PLATE
VENTURI TUBE
PITOT-STATIC
VORTEX METER
ROTAMETER
ULTRASONIC FLOWMETER (INLINE)
PRESSURE REDUCING REGULATOR, SELF-CONTAINED, W/HANDWHEEL ADJUSTABLE SET POINT

MAGNETIC FLOWMETER
PROPELLER OR TURBINE METER
THERMAL DISPERSION FLOWMETER
ULTRASONIC FLOW METER (CLAMP ON)
LEVEL (ULTRASONIC)
LEVEL (BUBBLER TUBE)
LEVEL (FLOAT)
TRAP
POSITIVE DISPLACEMENT FLOW TOTALIZING INDICATOR

MISCELLANEOUS SYMBOLS

CENTRIFUGAL PUMP
SUBMERSIBLE PUMP
BLOWER
COMPRESSOR UNIT
AFTERCOOLER
CHEMICAL FEED PUMP
DIAPHRAGM PUMP

Y-STRAINER
REDUCER
"KAMLOCK" QUICK CONNECT
TANK MIXER W/MOTOR
MOTOR
VACUUM RELIEF VALVE
SAMPLE PORT
AIR DRYER

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DATE 19 APR 96

FIRESTONE TIRE AND RUBBER COMPANY SITE

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

SUBMITTED
APPROVED

P & ID LEGEND
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE NONE
CONTRACT 41-4537
DWG. NO. PI-001 REV 0 PAGE NO 5

PLOT DATE: 01\06\97
CADD FILE: D:\ACAD\JOBS\ATC\PID-LEG

CONSTITUENT	① COMPOSITE CONCENTRATION[A] ug/L	② DISCHARGE LIMIT[B] ug/L
BENZENE	13	20
CARBON TETRACHLORIDE	ND	100
CHLOROFORM	ND	4
CHLORINATED ETHANES	2J	700
DICHLOROBENZENES (TOTAL)	NA	4000
DICHLOROETHENES (TOTAL)	2J	20
DICHLOROMETHANE	ND	180
1,1,2,2-TETRACHLOROETHANE	ND	10
1,1,1-TRICHLOROETHANE	ND	20
TOLUENE	ND	2000
XYLENES (TOTAL)	3J	10000

SOURCE: A. VOLATILES DATA REPORT, SDG: 73553, LAW ENVIRONMENTAL NATIONAL LABORATORIES, 1995.

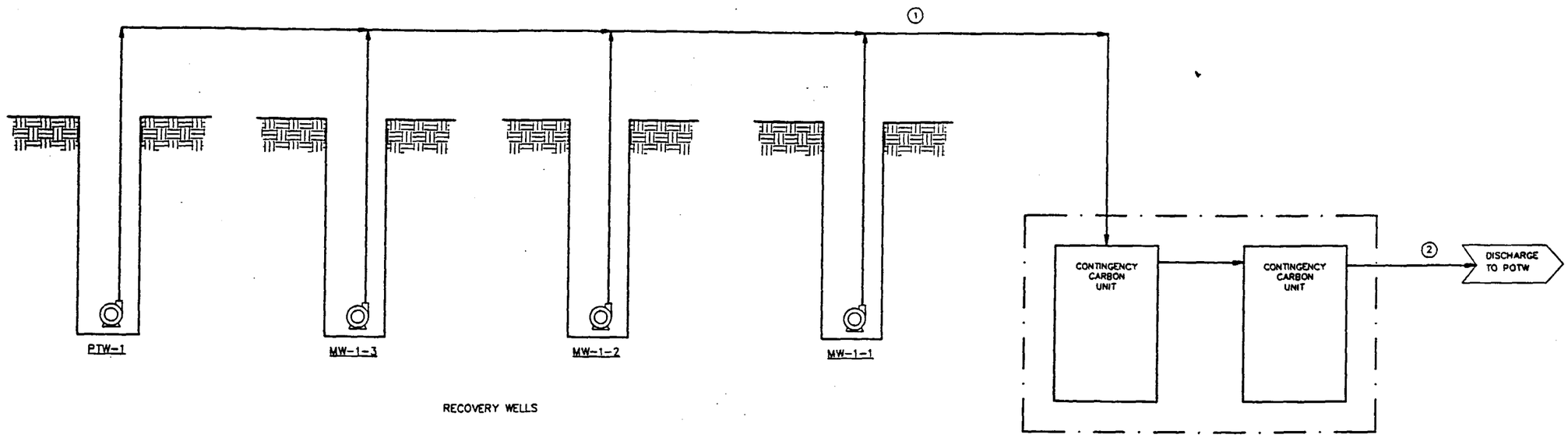
B. INDUSTRIAL WASTEWATER CONTRIBUTION PERMIT NUMBER T-1, USER CODE CO P11.

NOTES: ND - CONSTITUENT WAS NOT DETECTED.

NA - NOT ANALYZED. DATA OBTAINED DURING THE REMEDIAL INVESTIGATION INDICATE THAT DICHLOROBENZENES ARE NOT PRESENT IN SAMPLES COLLECTED FROM THESE WELLS.

J - REPORTED CONCENTRATION IS ESTIMATED.

COMBINED FLOW RATES WERE ANTICIPATED TO BE 30 GALLONS PER HOUR.



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FIRESTONE TIRE AND RUBBER COMPANY SITE

SUBMITTED

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

APPROVED

PROCESS FLOW DIAGRAM
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

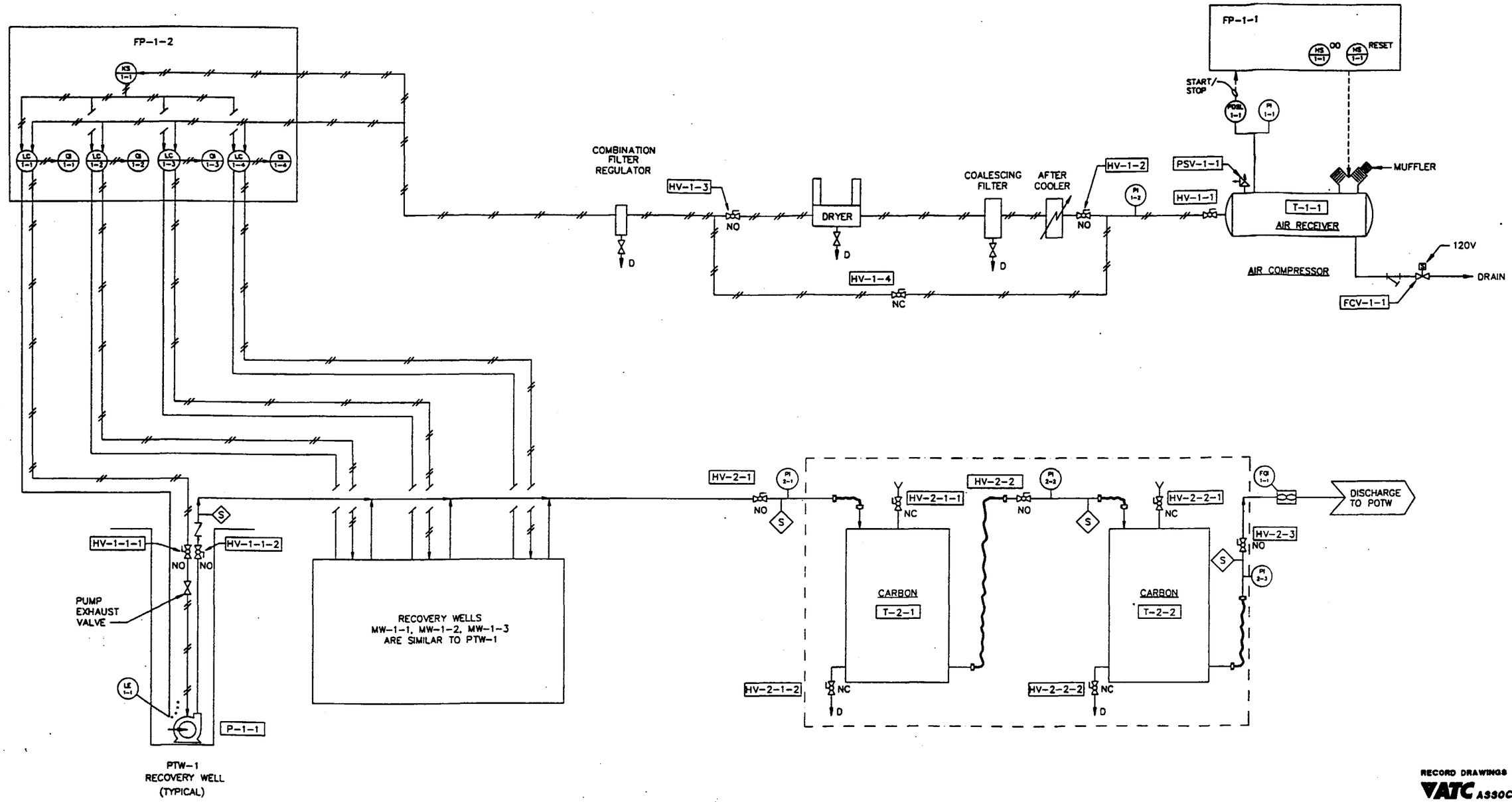
SCALE: NONE

CONTRACT: 41-4537

DWG NO. PI-002 | REV 0 | PAGE NO 6

PLOT DATE: 01\06\97

CADD FILE: D:\ACAD\JOBS\ATC\PI-002



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FIRESTONE TIRE AND RUBBER COMPANY SITE

SUBMITTED

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

APPROVED

P & ID
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

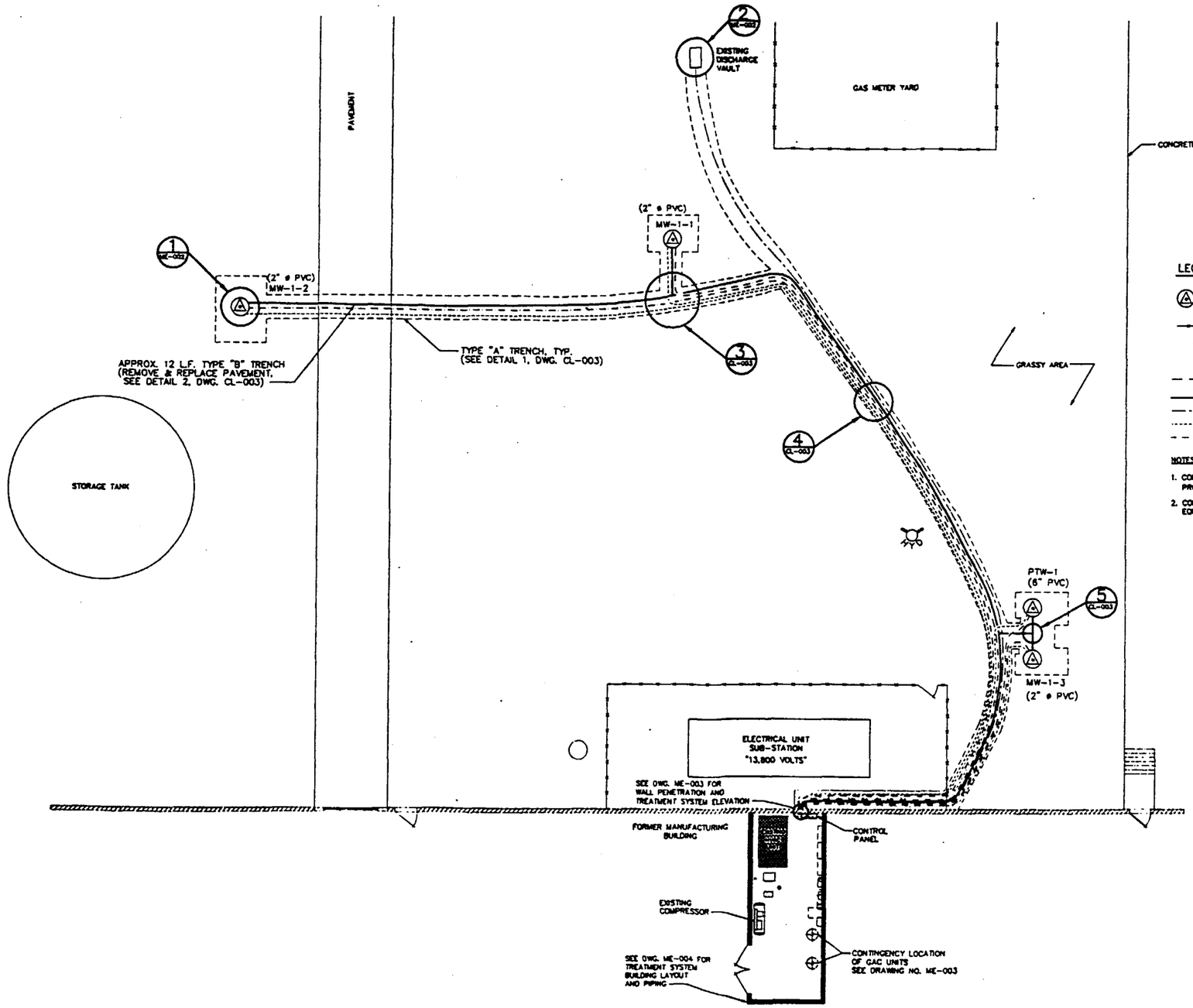
SCALE: NONE

CONTRACT: 41-4537

DWG. NO.: PI-003 | REV: 0 | PAGE NO.: 7

PLOT DATE: 01\06\97

CADD FILE: D:\ACAD\JOBS\ATC\PI-003



LEGEND

MW-1-3	RECOVERY WELL
	FENCE
	FIRE HYDRANT
	WATERLINE VALVE
	GROUND-WATER SUPPLY PIPING
	GROUND-WATER DISCHARGE PIPING
	BUBBLER LEVEL CONTROL PIPING
	COMPRESSED AIR PIPING

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATION, IDENTIFICATION AND PROTECTION OF ALL UTILITIES LOCATED WITHIN THE WORK AREA.
2. CONTRACTOR TO FIELD VERIFY ALL DISTANCES AND EQUIPMENT LOCATIONS.

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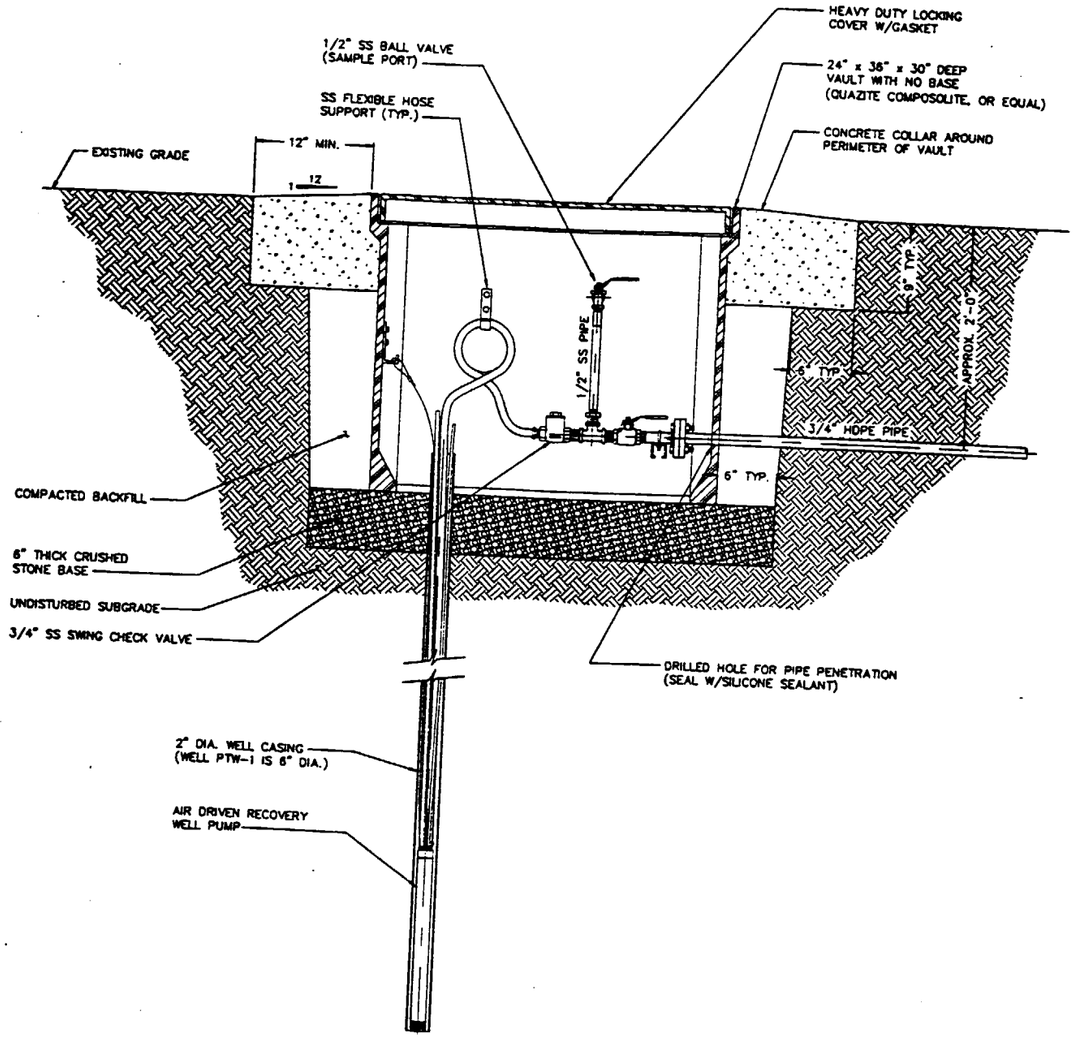
PIPING LAYOUT
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE 1"=10'

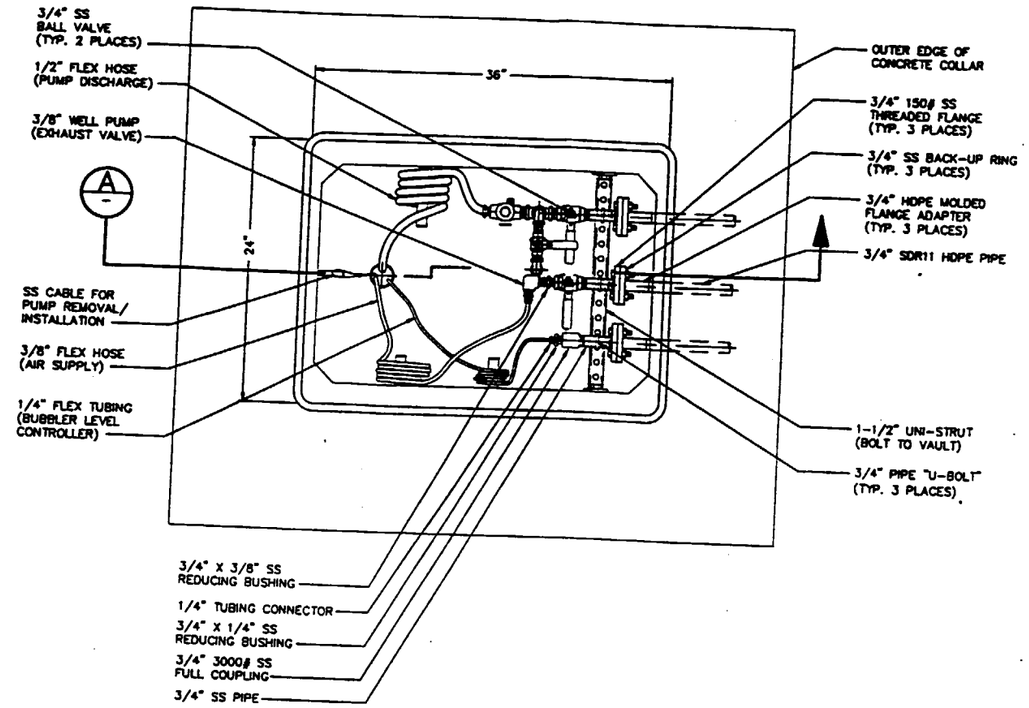
CONTRACT 41-4537

DWG. NO. ME-001 | REV 0 | PAGE NO 8



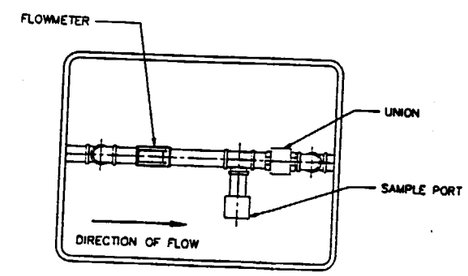
TYPICAL RECOVERY WELL SECTION

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



TYPICAL RECOVERY WELL PLAN

DETAIL 1
SCALE: 1-1/2"=1'-0"
ME-002 ME-001



EXISTING DISCHARGE VAULT

DETAIL 2
N.T.S.
ME-002 ME-001

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RECOVERY WELL DETAILS
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE: AS SHOWN
CONTRACT: 41-4537
DWG NO.: ME-002 REV: 0 PAGE NO: 9

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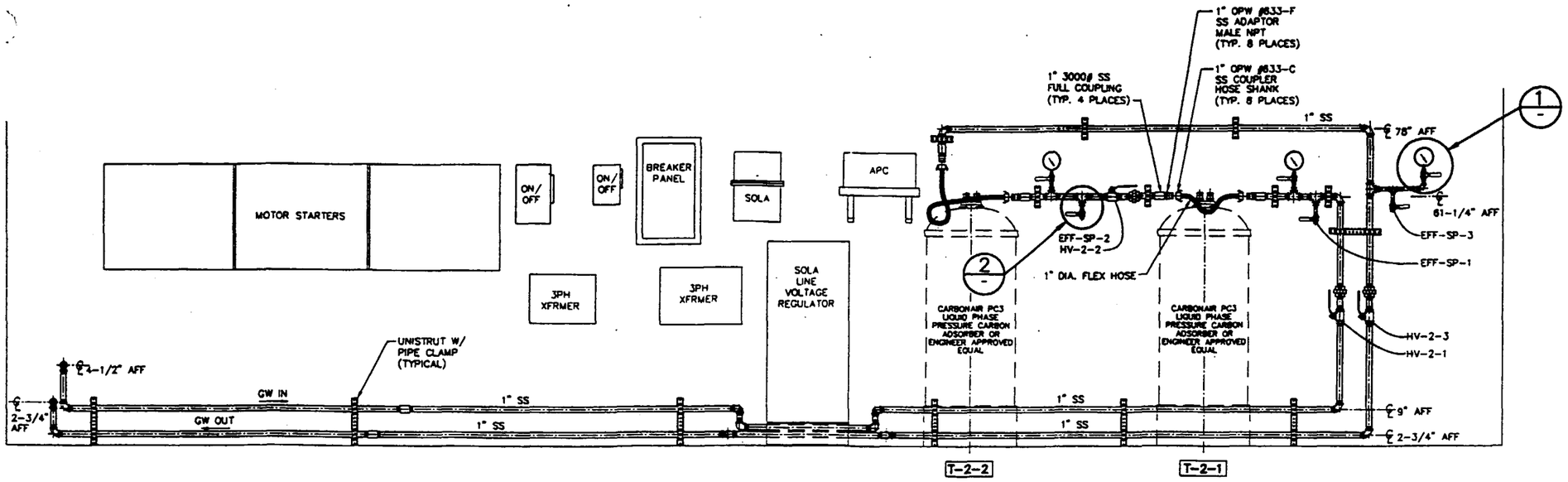
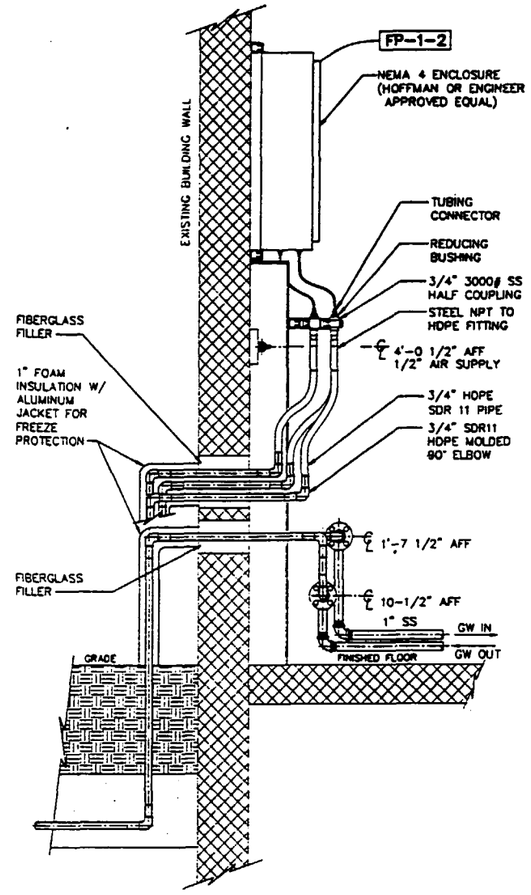
7 8 0289



CONTINGENCY ACTIVATED CARBON HEADER

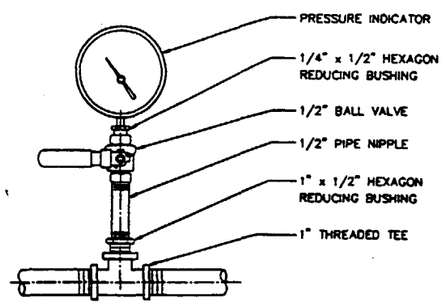
SECTION A ME-003 ME-004
SCALE: 3/4"=1'-0"



WALL PENETRATION

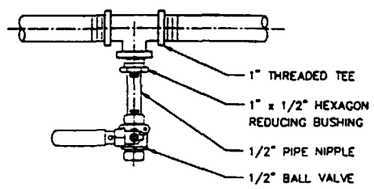
NOTE: ALL TUBING AND PIPE NOT SHOWN FOR CLARITY

SECTION D ME-003 ME-004
SCALE: 1"=1'-0"



PRESSURE GAUGE

DETAIL 1
SCALE: 3"=1'-0"



SAMPLE PORT

DETAIL 2
SCALE: 3"=1'-0"

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FIRESTONE TIRE AND RUBBER COMPANY SITE

SUBMITTED

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APPROVED

MECHANICAL DETAILS
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE: AS SHOWN
CONTRACT: 41-4537
DWG NO.: ME-003 REV: 0 PAGE NO.: 10

PLOT DATE: 01\06\97

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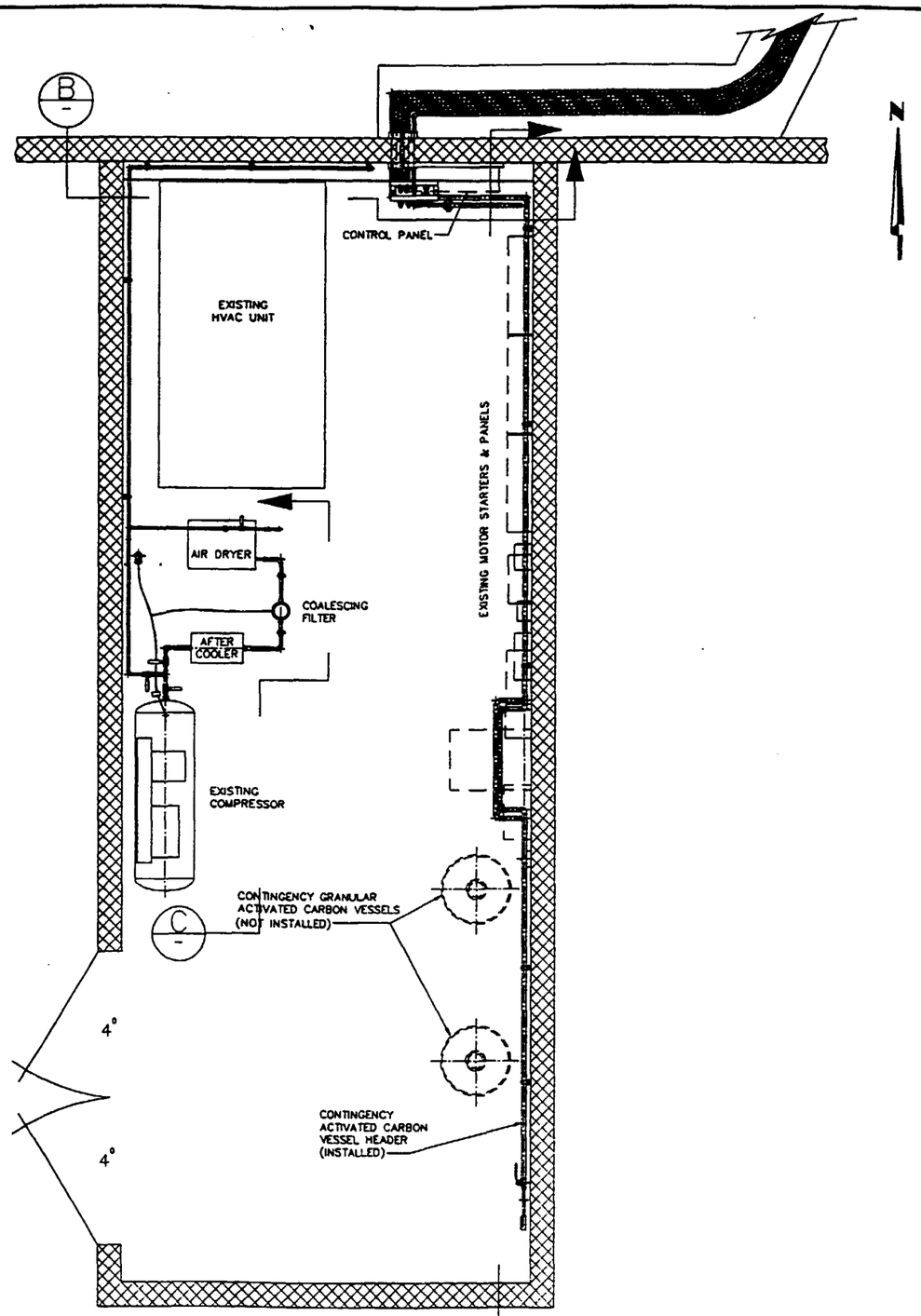
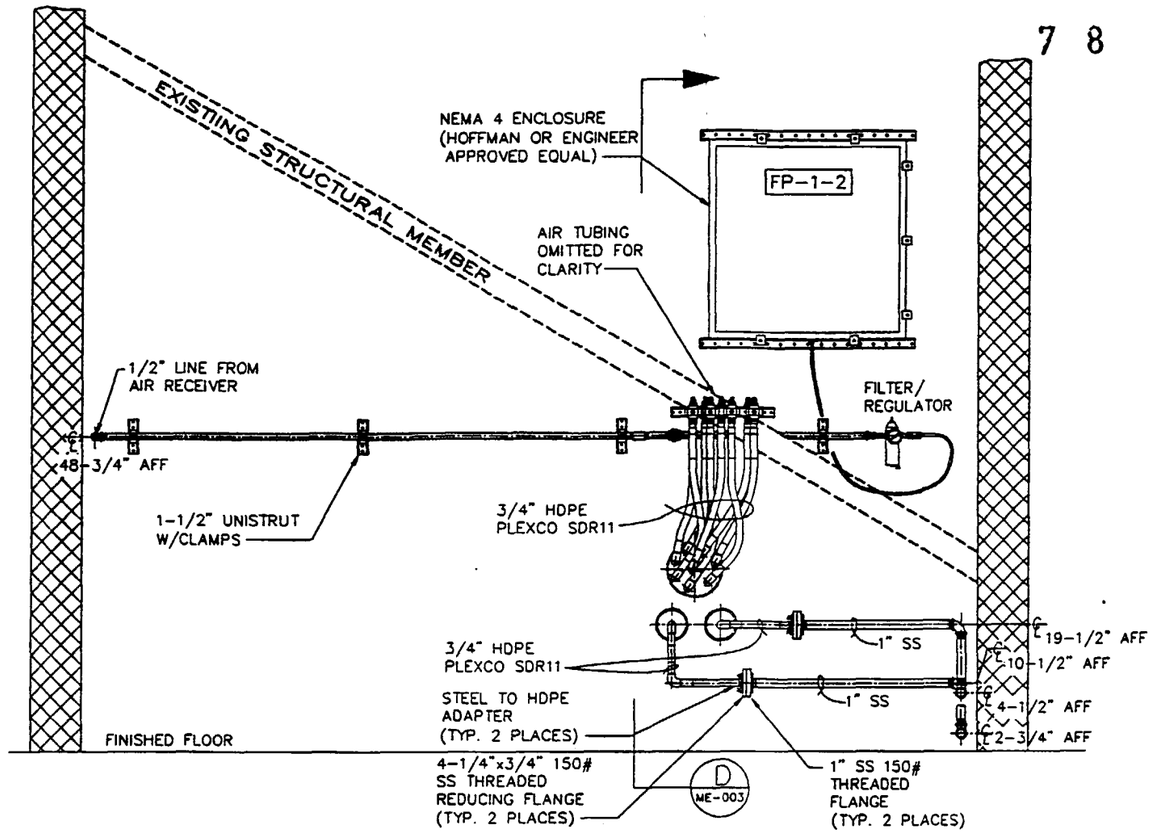
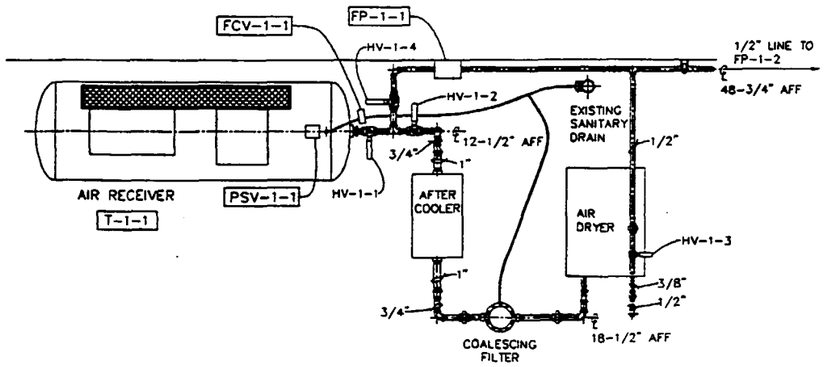


BUILDING PLAN
SCALE: 1/2"=1'-0"



CONTROL PANEL AREA SECTION
NOTE: PANEL INTERNAL COMPONENTS NOT SHOWN

SECTION B
SCALE: 1"=1'-0"



AIR PIPING ARRANGEMENT SECTION

SECTION C
SCALE: 3/4"=1'-0"

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FIRESTONE TIRE AND RUBBER COMPANY SITE

SUBMITTED
LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
APPROVED

TREATMENT SYSTEM BUILDING LAYOUT
GROUND-WATER COLLECTION SYSTEM
ALBANY, GEORGIA

SCALE: AS NOTED
CONTRACT: 41-4537
DWG. NO.: ME-004
REV: 0

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

APPENDIX B

INDUSTRIAL WASTE WATER PERMIT

and OCTOBER 1997 DISCHARGE RESULTS

7 8 0292

INDUSTRIAL WASTEWATER CONTRIBUTION PERMIT FOR CLASS I USERS

Department of Public Works
City of Albany, Georgia

Permit Number: T-1
Industrial User Code: CO P11

In accordance with all terms and conditions of the City of Albany Municipal Code, Chapter 28, entitled Sewerage Ordinance, and with any applicable provisions of federal or state law or regulation: BRIDGESTONE/FIRESTONE, INC., a Class I User of the City of Albany's Publicly Owned Treatment Works, located at: 50 CENTURY BOULEVARD NASHVILLE, TENNESSEE 37214 is hereby authorized to discharge to the City of Albany's sewer system in accordance with the limitations, monitoring requirements and other conditions set forth in Parts I and II hereof. This permit is granted in accordance with the application filed on 12/02/97, and in accordance with the other data submitted to this office and historical records.

This permit shall become effective on: 01/01/98. This permit and the authorization to discharge to the City of Albany's sewer system shall expire at midnight: 12/31/98.

Signed this day of: 12/17/97

Director of Public Works
City of Albany, Georgia

Darrell Tatum
Industrial Pretreatment & Monitoring Supervisor
City of Albany, Georgia

RECEIVED
DEC 22 1997
BRIDGESTONE
LEGAL DEPT.
ENVIRONMENTAL

PART I. DISCHARGE LIMITATIONS AND MONITORING FREQUENCY

1. All discharges must comply with limitations of Section 28-7-B and 28.2.1 of the City of Albany Sewer Ordinance. In addition, the industrial user shall comply with the specific volume and pollutant discharge limitations summarized in Tables 1.1 and 1.2 of this permit.

Table I.1
Volume of Discharge Limitations

Period	Average, 1,000 gallons	Maximum, 1,000 gallons
Daily	12	14.4
Monthly	432	432

Table I.2
Conventional Pollutants Discharge Limitations

Monitoring Parameters	Discharge Limitations (all values are in mg/l unless specified) 30 day Average Maximum	Daily	Discharge Limitations (all values are in lbs unless specified) 30 day Average Maximum	Daily	Monitoring Requirements Frequency	Sample Type	Sample Location
Flow (GPD)	12,000	14,400			Continuous	----	Manhole
BOD5	N/A	N/A	N/A	N/A	1/Month	24 comp.	Manhole
COD	N/A	N/A	N/A	N/A	1/Month	24 comp.	Manhole
TSS	N/A	N/A	N/A	N/A	1/Month	24 comp.	Manhole
TDS					1/Month	24 comp.	Manhole
Oil & Grease	N/A	N/A	N/A	N/A	1/Month	24 comp.	Manhole

2. The City of Albany may require installation of industrial pretreatment facilities in accordance with Section 28.3.1.

3. Permit holders have the responsibility to apply for permit reissuance prior to expiration in accordance with Section 28.5.7 of the Sewer Ordinance which states: *"A user with an expiring wastewater discharge permit shall apply for wastewater discharge permit reissuance by submitting a complete permit application, in accordance with Section 28.4.5 of this ordinance, a minimum of sixty (60) calendar days prior to the expiration of the user's existing wastewater discharge permit."*

4. Any change of conditions that results in altering the discharge characteristics must be reported to the City of Albany in accordance with Section 28.6.5 of the Sewer Ordinance, which states:

"Each user must notify the Director of Public Works of any planned significant changes to the User's operations or systems which might alter the nature, quality, or volume of its wastewater at least sixty (60) days before the change."

A. *The Director of Public Works may require the user to submit such information as may be deemed necessary to evaluate the changed conditions, including the submission of a wastewater discharge permit application under Section 28.4.5 of this Ordinance.*

B. *The Director of Public Works may issue a wastewater discharge permit under Section 28.4.7 of this Ordinance or modify an existing wastewater discharge permit under Section 28.5.4 of this Ordinance in response to changed conditions or anticipated changed conditions.*

C. *For purposes of this requirement, significant changes include, but are not limited to, flow increases of twenty percent (20%) or greater, and the discharge of a previously unreported pollutants.*

B. MONITORING AND SURVEILLANCE

The City of Albany will conduct unannounced monitoring for the parameters and periods listed in Table 1.2 of this permit in accordance with the Industrial Pretreatment Program.

In addition to the City's scheduled sampling program, Users may perform their own monitoring or request the City to conduct additional sampling at the User's own expense.

PART II

A. POWERS AND AUTHORITY OF THE CITY

1. The City of Albany, or its duly authorized representative or representatives, and all other duly authorized employees of the city shall be permitted to enter upon the property for which this permit is awarded, for the purpose of inspection, observation, measuring, sampling and testing, in accordance with the provisions of the Sewer Ordinance.

2. The City may suspend the wastewater treatment service and/or a wastewater contribution permit when such suspension is necessary, in the opinion of the City, in order to stop an actual or threatened discharge which presents or may present an imminent or substantial endangerment to the health or welfare of persons, to the environment, causes interference to the City of Albany POTW or causes the City to violate any condition of its NPDES Permit.

3. Any User notified of a suspension of the wastewater treatment service and/or the Wastewater Contribution Permit shall immediately stop or eliminate the contribution. In the event of a failure of the person to comply voluntarily with the suspension order, the City shall take such steps as deemed necessary including initiation of legal action by the City Attorney and immediate severance of the sewer connection, to prevent or minimize damage to the City of Albany POTW or endangerment to any individuals. The City shall reinstate the Wastewater Contribution Permit and/or the wastewater treatment service upon proof of the elimination of the non-complying discharge in accordance with Section 28.10.7 of the Sewer Ordinance.

4. Any User who violates the condition set forth in Sections 28.5.6 and 28.10.8 of the Sewer Ordinance is subject to having his permit revoked in accordance with the procedures of Section 28-10 of the City of Albany Sewer Ordinance.

B. NOTIFICATIONS OF VIOLATIONS

Whenever the City finds that any User has violated or is violating this wastewater contribution permit, the City may service upon such person a written notice stating the nature of the violation. Within 30 days of the date of the notice, a plan for the satisfactory correction thereof shall be submitted to the City by the User. Every December, the City will publish in the local newspaper the list of violators of the wastewater contribution permit for that year.

PART III

A. RIGHT OF ENTRY

1. The City shall inspect the facilities of any User to ascertain whether the purpose of this Permit is being met and all requirements are being complied with. Persons or occupants of premises where wastewater is created or discharged shall allow the City or their representative ready access at all times to all parts of the premises for the purpose of inspection, sampling, records examination or in the performance of any of their duties.

2. The City, the Georgia Environment Protection Division (EPD), and the United States Environmental Protection Agency (EPA) shall have the right to set up on the User's property such devices as are necessary to conduct sampling inspection, compliance monitoring, and/or metering operations. Where a User has security measures in force which would require proper identification and clearance before entry into their premises, the User shall make necessary arrangements with their security guards so that upon presentation of suitable identification personnel from the City, EPD, and EPA will be permitted to enter, without delay, for the purpose of performing their specific responsibilities.

B. RECORDS RETENTION

1. Information and data on a User obtained from reports, questionnaires, permit applications, permits, monitoring programs, and from inspections shall be available to the public, EPD, EPA or other governmental agencies without restriction unless the User specifically requests and is able to demonstrate to the satisfaction of the City, EPD and EPA, that the release of such information would divulge information, processes or methods of production entitled to protection as trade secrets of the User. Effluent sampling will be available to the City without restriction. Records retention procedures and requirements shall comply with Section 28.6.13 of the Sewer Ordinance.

C. PENALTY PROVISIONS

Noncompliance by users will be enforced by the City of Albany in accordance with the penalty provisions outlined in Section 28.10(especially, Section 28.10.6) and Section 28.11.2 of the Sewer Ordinance, which state:

28.10.6 Administrative Fines

When the IU has violated or continues to violate the ordinance or permit or other administrative enforcement actions, the Director of Public Works can issue an Administrative Fine in an amount not to exceed on thousand dollars ($1,000) per violation. Each day on which the noncompliance shall occur or continue shall be deemed a separate and distinct violation. Administrative fine notifications will e delivered personally to the principal executive, general partner, or corporate officer of higher ranking that is in-charge of operations at the local IU facility. If an IU desires to dispute such fines, a written request must be filed to the Director of Public Works to reconsider the fine within 10 days of receiving the notification of the fine. If the Director of Public Works believes that a request has merit, he will convene a hearing within 15 days from receiving the request from the IU.

28.11.2 Civil Penalties

1. *Any industrial user who has violated or continues to violate the Ordinance or any order or permit issued hereunder shall be liable to the Director of Public Works for a civil penalty of up to at least one thousand dollars ($1,000) plus actual damages incurred by the POTW ar violation per day for as long as the violation continues. In addition to the above described penalty and damages, the Director of Public Works may recover reasonable attorney's fees, court costs, and other expenses associated with the enforcement activities, including sampling and monitoring expenses.*

2. *The Director of Public Works shall petition the Municipal Court of the City of Albany or any state court having jurisdiction to impose, assess, and recover such sums. In determining amount of liability, the Municipal Court of the City of Albany or any state court having jurisdiction shall take into account all relevant circumstances, including, but not limited to, the extent of harm caused by the violation, the magnitude and duration, any economic benefit gained through the industrial user's violation, corrective actions by the industrial user, the compliance history of the user, and any other factor as justice requires.*

D. CRIMINAL PROSECUTION

Any industrial user who willfully or negligently violates any provision of this Permit or any orders or permits issued hereunder shall, upon conviction in the Municipal Court of the City of Albany, be guilty of a misdemeanor, punishable by a fine not to exceed $1,000.00 per violation per day or imprisonment for not more than six months or both.

Any industrial user who knowingly makes any false statements, representations, or certifications in any application, record, report, plan or other document filed or required to be maintained pursuant to this Permit, or wastewater permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this Permit shall, upon conviction, be punished by a fine of not more than $1,000.00 per violation per day or imprisonment for not more than six months or both.

E. NONTRANSFERABILITY

The permit is nontransferable, unless the conditions stated in Section 28.5.5 of the Sewer Ordinance are met. Section 28.5.5 states:

"Wastewater discharge permits may be transferred to a new owner or operator only if the permittee gives at least sixty (60) calendar days advance notice to the Director of Public Works and the Director of Public Works approves the wastewater discharge permit transfer. The notice to the Director of Publics must include a written certification by the new owner or operator which:

A. States that the new owner and/or operator has no immediate intent to change the facility's operations and processes:

B. Identifies the specific date on which the transfer is to occur; and

C. Acknowledges full responsibility for complying with the existing wastewater discharge permit

Failure to provide advance notice of a transfer renders the wastewater discharge permit void as of the date of facility transfer".

F. SLUG CONTROL AND SPILL PREVENTION

1. Notice of Potential Problems with Slug Loading. All users shall notify the POTW treatment plant superintendent immediately of all spills or slug discharges. All conditions and materials specified under Chapter 28 of the Ordinance are applicable. Included below is Section 28.2.1, which states the Prohibited Discharge Standards:

A. *General Prohibitions. No user shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes pass through or interference. These general prohibitions apply to all users of the POTW whether or not they are subject to categorical pretreatment standards or any other National, State, or local pretreatment standards or requirements.*

B. *Specific prohibitions. No user shall introduce or cause to be introduced into the POTW the following pollutants, substances, or wastewater:*

(1) Pollutants which create a fire or explosive hazard in the POTW, including, but not limited to, waste streams with a closed-up flashpoint of less than 140 °F (60 °C) using the test methods specified in 40 CFR 261.21.

(2) Wastewater having a pH less than 5.0 or more than 12.5, or otherwise causing corrosive structural damage to the POTW or equipment.

(3) Solid or viscous substances in amounts which will cause obstruction of the flow in the POTW resulting in interference (but in no case solids greater than 2.5 inch(es) in any dimension):

(4) Pollutant, including oxygen-demanding pollutants (BOD, etc), released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference with the POTW;

(5) Wastewater having a temperature greater than 113 °F (45 °C), or which will inhibit biological activity in the treatment plant resulting in interference, but in no case wastewater which causes the temperature at the introduction into the treatment plant to exceed 104 °F (40 °C);

(6) Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause interference or pass through;

(7) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;

(8) Trucked or hauled pollutants, except at discharge points designated by the Director of Public Works in accordance with Section 28.3.4 of this ordinance.

(9) Noxious or malodorous liquids, gases, solids, or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance or a hazard to life, or to prevent entry into the sewers for maintenance or repair;

(10) Wastewater which imparts color which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the treatment plant's effluent, thereby violating the City's NPDES permit;

(11) Wastewater containing any radioactive wastes or isotopes except in compliance with applicable State or Federal regulations;

(12) Storm water, surface water, ground water, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, condensate, deionized water, noncontact cooling water, and unpolluted wastewater, unless specifically authorized by the Director of Public Works.

(13) Sludges, screening, or other residues from the pretreatment of industrial wastes;

(14) Medical wastes, except as specifically authorized by the Director of Public Works in a wastewater discharge permit;

(15) Wastewater causing, alone or in conjunction with other sources, the treatment plant's effluent to fail a toxicity test;

(16) Detergents, surface-active agents, or other substances which may cause excessive foaming in the POTW;

(17) Fats, oils, or greases of animal or vegetable origin in concentrations greater than 100 mg/l, or other substances that will solidify or become viscous at temperatures between 35 °F (1.7 °C) and 150 °F (65.6 °C); or;

(18) Wastewater causing two readings on an explosion hazard meter at the point of discharge into the POTW.

Pollutants, substances, or wastewater prohibited by this Section shall not be processed or stored in such a manner that they could be discharged to the POTW.

2. All users permitted by the City shall prepare and submit for approval to the Director of Public Works a Spill Control and Countermeasure Plan. The plan must be updated and approved by the Director of Public Works every twenty-four (24) months. If the Director of Public Works notifies the industrial user of needing a Spill Control and Countermeasure Plan or of updating the existing plan, the plan must contain at least the following elements:

a) description of discharge practices, including nonroutine batch discharges;

b) description of stored chemicals and hazardous materials;

c) written procedures for promptly notifying the POTW treatment plant superintendent of slug discharges that would violate a discharge prohibition under 40 CFR 403;

d) any necessary procedures to prevent adverse impacts from accidental spills, including:

1) inspection and maintenance of storage area;
2) handling and transfer of materials;
3) loading and unloading operations;
4) worker training;
5) building of containment structures or equipment
6) measures for containing toxic organic pollutants (including solvents);and/or
7) measures and equipment for emergency response.

3. The Director of Public Works or the person designated by the Director of Public Works shall have access to the facilities.

4. In the case of an accidental discharge, it is the responsibility of the User to telephone immediately and notify the POTW Plant of the incident. The notification shall include location of discharge, type of waste, concentration and volume, and corrective actions.

5. Within five (5) days following an accidental discharge, the User shall submit to the City a detailed written report describing the cause of the discharge and the measures to be taken by the User to prevent similar future occurrences. Such notification shall not relieve the User of any expense, loss, damage, or other liability which may be incurred as a result of damage to the wastewater treatment facilities, fish kills, or any other damage to persons or property; not shall such notification relieve the User of any fines, civil penalties, or other liability which may be imposed by this article or other applicable law.

6. A notice shall be permanently posted on the User's bulletin board or other prominent place advising employees who to call in the event of a dangerous discharge. Employers shall ensure that all employees who may cause or suffer such a dangerous discharge to occur are advised of the emergency notification procedure.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

2846 Industrial Plaza Drive (32301) • P.O. Box 13056 • Tallahassee, FL 32317-3056 • (850) 878-3994 • Fax (850) 878-9504

LOG NO: T7-22743
Received: 03 OCT 97
Reported: 15 OCT 97

Mr. Darrell Tatum
Albany, City Of
P.O. Box 447
Albany, GA 31702-0447

Client PO. No.: C39888

Project: Groundwater Monitoring
Sampled By: Client
Code: 131771015

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
22743-1	F-57	10-02-97

PARAMETER	22743-1
Purgeable Halocarbons (601)	
Bromodichloromethane, ug/l	<1.0
Bromoform, ug/l	<5.0
Bromomethane, ug/l	<1.0
Carbon tetrachloride, ug/l	<1.0
Chlorobenzene, ug/l	<1.0
Chloroethane, ug/l	<1.0
2-Chloroethylvinyl ether, ug/l	<10
Chloroform, ug/l	<1.0
Chloromethane, ug/l	<1.0
Dibromochloromethane, ug/l	<1.0
1,2-Dichlorobenzene, ug/l	<1.0
1,3-Dichlorobenzene, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
Dichlorodifluoromethane, ug/l	<1.0
1,1-Dichloroethane, ug/l	6.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethene, ug/l	2.5
trans-1,2-Dichloroethylene, ug/l	<1.0
cis-1,2-Dichloroethene, ug/l	<1.0
1,2-Dichloropropane, ug/l	<1.0
cis-1,3-Dichloropropene, ug/l	<1.0
trans-1,3-Dichloropropene, ug/l	<1.0
Methylene chloride (Dichloromethane), ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<1.0
Tetrachloroethene, ug/l	<1.0

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PARAMETER	22743-1
1,1,1-Trichloroethane, ug/l	<1.0
1,1,2-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Trichlorofluoromethane, ug/l	<1.0
Vinyl chloride, ug/l	<1.0
Date Analyzed	10.08.97
Purgeable Aromatics (602)	
Benzene, ug/l	<1.0
Toluene, ug/l	<1.0
Ethylbenzene, ug/l	<1.0
Xylenes, ug/l	<2.0
Total Volatile Organic Aromatics, ug/l	<2.0
Date Analyzed	10.08.97

Method: EPA 40 CFR Part 136
Florida Dept. of Health Certification No:81291,E81005
FDEP CompQAP No. 890142G

Janet B. Pruitt, Project Manager

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