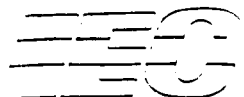


TM



Ltd

Industrial Environmental Consultants

PLAINTIFF'S
EXHIBIT

CHR-137

November 4, 1988

Chrysler Motors Corporation
30500 Northwestern Highway
Farmington Hills, MI 48018

ATTENTION: Ms. J. B. Spencer, Buyer

REGARDING: Industrial Hygiene Summary Report for the Asbestos Identification Survey at Acustar Inc., Trenton Chemical Division, 5437 West Jefferson, Trenton, Michigan

Dear Ms. Spencer:

Thank you again for providing Industrial Environmental Consultants, Ltd. the opportunity to serve the industrial hygiene needs of the Chrysler Motors Corporation and Acustar Inc.

Enclosed is the industrial hygiene report for the Asbestos Identification Survey of September 6 - 23, 1988 at the subject location. If there are questions concerning any aspect of this report, please do not hesitate to contact us.

We look forward to serving the industrial hygiene needs of the Chrysler Motors Corporation and Acustar Inc in the future.

Sincerely,

INDUSTRIAL ENVIRONMENTAL CONSULTANTS, LTD.

Mark E. Young
Mark E. Young, M.S.
President/Industrial Hygienist

MEY/cmf

Enclosure

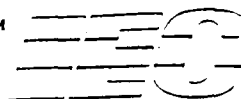
cc: Ray Gryniwicz, Acustar
Vince Peters, Chester Engineers

Corporate Office
2875 Northwind
Suite 113
East Lansing, Michigan 48823
(517) 332-7026

Laboratory
1350 East Lake Lansing Road
Suite C
East Lansing, Michigan 48823
(517) 351-4002

Branch Office
24780 Hathaway
Suite 200A
Farmington Hills, Michigan 48018
(313) 476-5773

Branch Office
55 West Wacker Drive
Suite 716
Chicago, Illinois 60601
(312) 419-1160

**INDUSTRIAL HYGIENE SUMMARY REPORT****OF****THE ASBESTOS IDENTIFICATION SURVEY**

**ACUSTAR INC.
TRENTON CHEMICAL DIVISION
5437 WEST JEFFERSON
TRENTON, MICHIGAN**

FOR

**CHRYSLER MOTORS CORPORATION
FARMINGTON HILLS, MICHIGAN**

PROJECT NO. 2088

**SURVEY DATES:
SEPTEMBER 6 - 23, 1988**

SURVEY CONDUCTED BY:

**W. JAMES BOLAND
VICTOR M. COCCO
MARILYN M. LAKE
SCOTT G. SHEPHERD
INDUSTRIAL HYGIENISTS
INDUSTRIAL ENVIRONMENTAL CONSULTANTS, LTD.**

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(312) 419-1160**

ENDORSEMENT

Acustar Inc./Chrysler Motors Corporation

Project No. 2088

This survey was conducted by industrial hygiene professional as defined by the American Industrial Hygiene Association and the American Conference of Governmental Industrial Hygienists, represented by the undersigned.

Submitted by:

Victor M. Cocco
Victor M. Cocco
Industrial Hygienist (CP)

Reviewed by:

James C. Fox
James C. Fox, Manager
Asbestos Services

1.0 INTRODUCTION

The Chrysler Motors Corporation, in keeping with Environmental Protection Agency (EPA) guidelines, contracted Industrial Environmental Consultants, Ltd. (IEC) to identify friable asbestos-containing building materials (ACBM) in specified areas of Acustar Inc., Trenton Chemical Division. This action was initiated by a concern for potential exposure of employees to airborne asbestos and to provide documentation for planning abatement activities.

In addition, IEC was contracted to quantify all asbestos containing material and provide cost estimates for repair or removal. Following each material description section, an approximate unit price is given for information purposes. For repair costs, manpower was estimated for various types of patch and repair work, and approximations were given by various contractors for unique problems (such as the surface contamination in the friction building). Please note that these prices only include the costs of removal and reinsulation. In many cases, reinsulation costs are 30% to 40% of removal costs.

2.0 CONCLUSIONS

FRICTION BUILDING

Piping - All piping that is wrapped with insulation other than fibrous glass has asbestos-containing materials (ACM). This includes all mudded joints, tees, and elbows. The condition of ACM ranges from Class 1 (Good Condition - Raw or Friable ACM is not exposed and no repair is needed) to Class 2 (material is torn, ripped, opened, or damaged to a degree which is repaired or can be encapsulated). The exception is the area above the west mezzanine (Bay F-1 and G-1). Much of this piping is Class 3 (material is damaged so severely that complete removal is required) due to moisture damage from steam and condensate leaks. There are also many isolated Class 3 damaged areas throughout the Friction Building that need immediate attention. These areas are indicated in the section of building system drawings of this report. The damaged areas are noted on the drawings by the letter Q.

Total quantity of ACM: Approximately 4,164 linear feet.

Unit price: Approximately \$10.00 per linear foot.

High and Low Pressure Condensate Tanks - Both tanks are insulated with ACM in Class 3 condition.

Total quantity of ACM: Approximately 400 square feet.

Unit price: Approximately \$25.00 per square foot.

Material Transport Bins - Wipe samples indicate that bins contain asbestos-contaminated dust. (Note, all equipment that will be removed from the Friction Building should be wet wiped before removal.)

Roofing - Samples indicate roofing material has ACM in both the surface and substrate. This material poses no health threat, providing the surface material (stone and gravel) are not disturbed. Any disturbance would most likely be due to renovation work on the roof level, therefore, the cost of removing this material has been included in the demolition situation cost estimate.

Total quantity of ACM: Approximately 120,000 square feet.

Unit price: Approximately \$8.00 per square foot.

Mixing Mezzanine Landing - Areas to the elevator contain large amounts of friable ACM.

Floor Tile - All gray vinyl floor tile (9" x 9") proved to contain the same asbestos found in the Dynameter room and the office above the lunch room.

Total quantity of ACM: Approximately 5,800 square feet.

Unit price: Approximately \$1.00 per square foot.

Ovens - Door gaskets are ACM.

Total quantity of ACM: Approximately 400 linear feet.

Unit price: Approximately \$1.00 per linear foot.

General Equipment - Due to gross contamination, all equipment should be wet wiped, and cleaned before removal from the building.

Vents and Bag Housing - Approximately 12,000 square feet of duct work and 35,400 square feet of the bag house area was grossly contaminated with ACM. Extreme caution should be used when removing or entering access panels.

REMOVAL COST ESTIMATES

The parameters used in each cost estimate area:

1. Compliance Situation - Patch and repair damaged friable material in addition to cleanup of any surface contamination (i.e., exposed insulation, dropped insulation, asbestos-containing dust).
2. Non-Demolition Situation - Removal and clean up of all friable and accessible ACM only.
3. Demolition Situation - Abatement and clean up of all friable and non-friable ACM, as well as the removal of structurally inaccessible materials.

<u>Compliance</u>	<u>Non-Demolition Situation</u>	<u>Demolition Situation</u>
\$ 850,000	\$ 941,000	\$ 2,000,000

CHEMICAL BUILDING

Piping - All piping, other than those pipes listed below, are ACM including tees, elbows, and union joints:

- Blue transport lines including joints;
- City water pipe (runs only);
- Mill water 6" outside diameter runs and return piping in Room 26 (Bay D1); and
- Fibrous glass wrapping.

Most piping located in the Chemical Building and the Chemical Building storage areas are Class 1 and 2. Damage due primarily to storage fork lift traffic. Areas of Class 3 damage is restricted to mezzanine piping valve header stations, and north Administration office mezzanine east/west pipe chase. See drawing section for pipe system locations of severely damaged areas.

Total quantity of ACM: Approximately 9,047 linear feet.

Mixing Tanks - Mixing and storage tanks have ACM with the exception of the tank heat exchanger and Room 3 under coating tanks. The insulation on these tanks is Class 3.

Total quantity of ACM: Approximately 1,650 square feet.

Unit price: Approximately \$25.00 per square foot.

All Floor Tile - Gray 9" x 9" floor tile in east west hall and administration offices. East-west hall, administration offices, reception area, personnel offices, and mezzanine electrical storage.

Total quantity of ACM: Approximately 9,350 square feet.

Electrical Storage Room - The storage room ceiling above the cold storage room proved to be 60% amosite dry board. The condition of the ceiling is Class 2.

Total quantity of ACM: Approximately 750 square feet.

Unit price: Approximately \$2.00 per square foot.

Chiller Bridging and Duct Work - The material proved to contain asbestos. The condition of the material is Class 1.

Total quantity of ACM: Approximately 850 square feet.

Roofing Material - Includes loose top coat and substrate; both layers contain asbestos--Substrate is Class 1, top coat is Class 3.

Total quantity of ACM: Approximately 80,000 square feet.

Window Caulk - Proved to contain ACM and is in Class 1 condition.

Insignificant quantity of ACM.

REMOVAL COST ESTIMATES

<u>Compliance</u>	<u>Non-Demolition Situation</u>	<u>Demolition Situation</u>
\$ 15,000	\$ 160,000	\$ 830,000

POWER HOUSE

Piping - All piping except 8" outside diameter city water runs, joints, and fibrous glass lines without a mud wrap coating have ACM. Piping condition is mostly Class 1 with few scattered Class 2 within system. See pipe system drawings for damage locations. See pipe system drawings for damage locations.

Total quantity of ACM: Approximately 576 linear feet.

Duct Work - Total quantity of ACM, approximately 400 square feet.

Unit price: Approximately \$25.00 per square foot.

Condensate Tanks - Approximately 160 square feet of ACM in Class 2 condition.

Roof Material - Insulated with ACM, approximately 4,250 square feet.

REMOVAL COST ESTIMATES

<u>Compliance</u>	<u>Non-Demolition Situation</u>	<u>Demolition Situation</u>
\$ 6,000	\$ 20,000	\$ 60,000

MANUFACTURING BUILDING

Piping - All steam and condensate lines have ACM in Class 1 condition and some scattered Class 2 sections of pipe.

Total quantity of ACM, approximately 1,328 linear feet.

Roofing Material - The material proved to contain asbestos.

Total quantity of ACM: Approximately 38,000 square feet.

REMOVAL COST ESTIMATES

<u>Compliance</u>	<u>Non-Demolition Situation</u>	<u>Demolition Situation</u>
\$ 7,000	\$ 18,000	\$ 350,000

SOLVENT PUMPING BUILDING

Piping - There is thirty-eight feet of steam pipe in Class 3 condition.

Roofing - The material proved to contain asbestos.

Total quantity of ACM: Approximately 750 square feet.

REMOVAL COST ESTIMATES

<u>Compliance</u>	<u>Non-Demolition Situation</u>	<u>Demolition Situation</u>
\$ 3,000	\$ 3,000	\$ 8,000

ROLLING OIL BUILDING

No ACM was found in this building.

SEWAGE DISPOSAL BUILDING

No ACM was found in this building.

EXTERIOR PIPING AND MATH PIPE TUNNELS

Three hundred linear feet of piping and approximately 150 elbows are ACM. All fibrous glass lines, except elbows, are free of ACM.

REMOVAL COST ESTIMATES

<u>Compliance</u>	<u>Non-Demolition Situation</u>	<u>Demolition Situation</u>
\$ 5,000	\$ 12,500	\$ 12,500

REMOVAL COST ESTIMATES (PLANT-WIDE)

The following removal cost estimates (plant-wide total) have been derived with the assistance of estimates from several abatement companies in the Midwest. (industrial hygiene costs are estimated and included).

<u>Compliance</u>	<u>Non-Demolition Situation</u>	<u>Demolition Situation</u>
\$ 900,000	\$ 1,155,000	\$ 3,400,000

3.0 DESCRIPTION OF SURVEY METHODS AND LABORATORY ANALYSES

Bulk material samples were taken from various locations throughout the facilities of Acustar Inc. located in Trenton, Michigan. Each sample was collected using a method of wetting that prevents fiber release. Sample locations were sealed with duct tape and labeled with an identification number.

Bulk material samples were analyzed by the IEC laboratory utilizing polarized light microscopy and dispersion staining techniques.

4.0 DESCRIPTION OF ASBESTOS IDENTIFICATION SURVEY SHEET INFORMATION

The following section is provided to assist the reader to better understand the information reported in Appendix I, Asbestos Identification Survey Sheets.

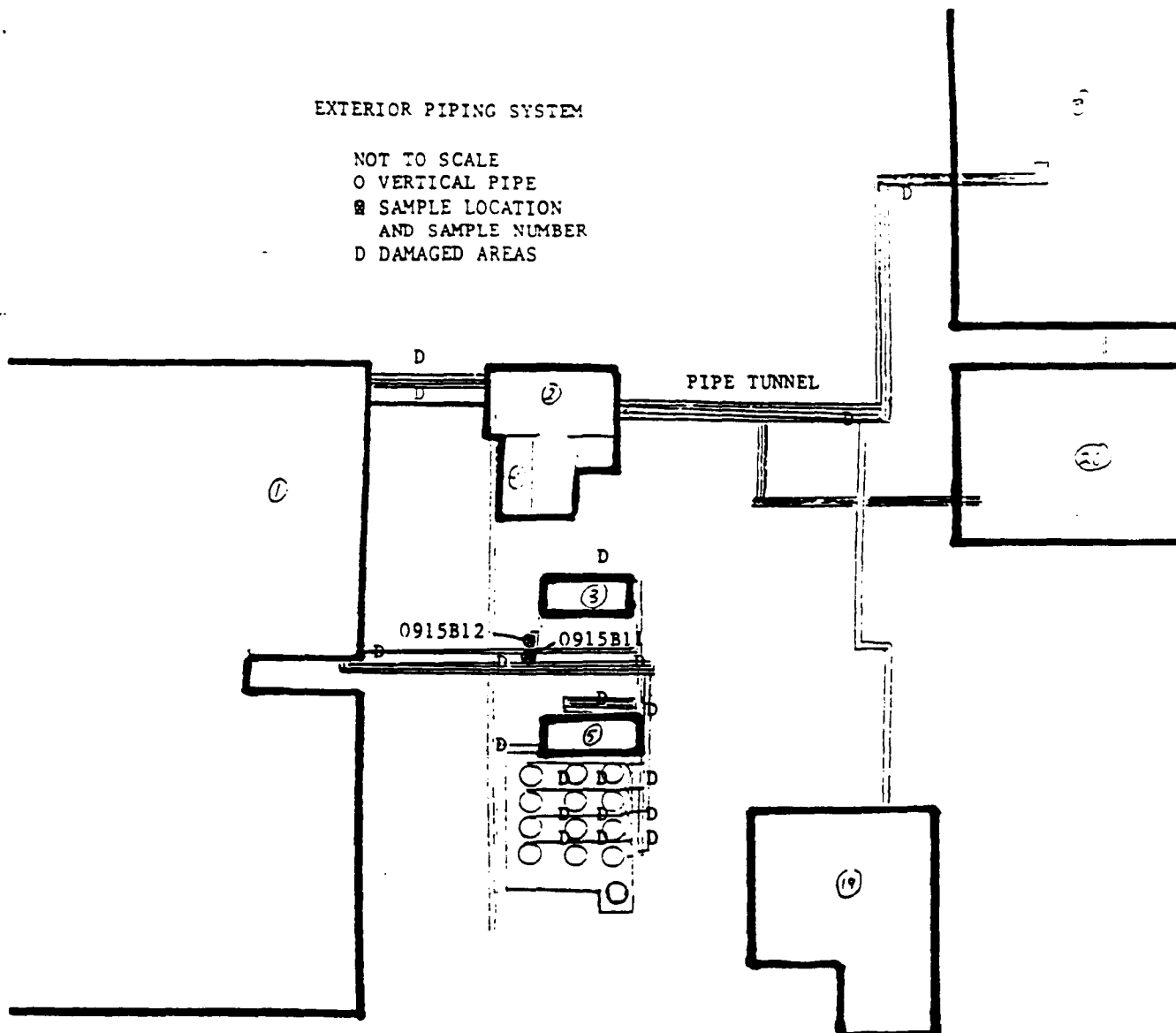
The sample summaries include the following information:

1. The facility investigated
2. The name of the IEC investigator
3. The sample number assigned at the time of collection
4. Sample Location Column - This column identifies the general area of the building being sampled.
5. Pipe/Fixture Designation Column - This column identifies the general type of sample as well as its origin; these include but are not limited to architectural ceilings, pipe fixtures, structural ceilings, etc.
6. Physical Description Column - A general description of the physical characteristics of each sample.
7. Estimated Quantity Column - Gives an estimate of the total quantity of the material under analysis.
8. Asbestos Column - Indicates the type and percent of asbestos found in the samples. Some materials, upon microscopic examination, may contain no detectable asbestos and are reported as ND (<1%). One percent (1%) is the accepted limit of detection for bulk analysis.
9. Non-Asbestos Column - Indicates the type and percent of non-asbestos material found in the sample.
10. Condition Factor Column
 - Class 1 - Good condition
 - Class 2 - Requires repair or encapsulation
 - Class 3 - Material is exposed and is damaged beyond repair

DIAGRAMS

EXTERIOR PIPING SYSTEM

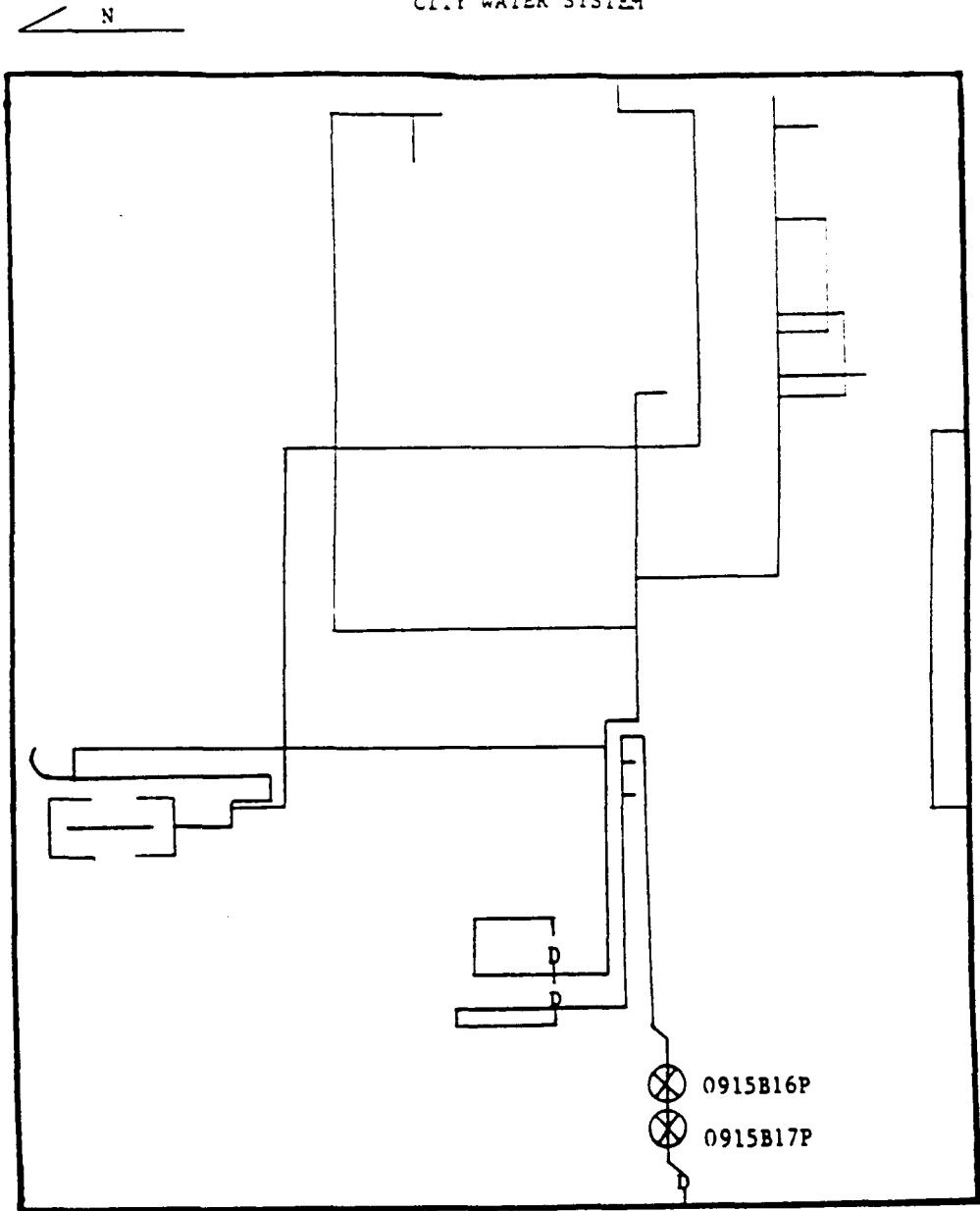
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1. CHEMICAL BUILDING
2. POWER HOUSE
3. PUMP HOUSE (SOLVENT)
5. PUMP HOUSE (OIL)
8. GARAGE
9. FRICTION BUILDING
19. ROLLING OIL BUILDING
20. MANUFACTURING BUILDING

CHRYSLER MOTOR CORPORATION
 ACUSTAR, INC.
 TRENTON CHEMICAL DIVISION
 EXTERIOR PIPING
 9-6-88 TO 9-23-88
 P.A. 2088
 V.C. M.L. S.S.

CITY WATER SYSTEM

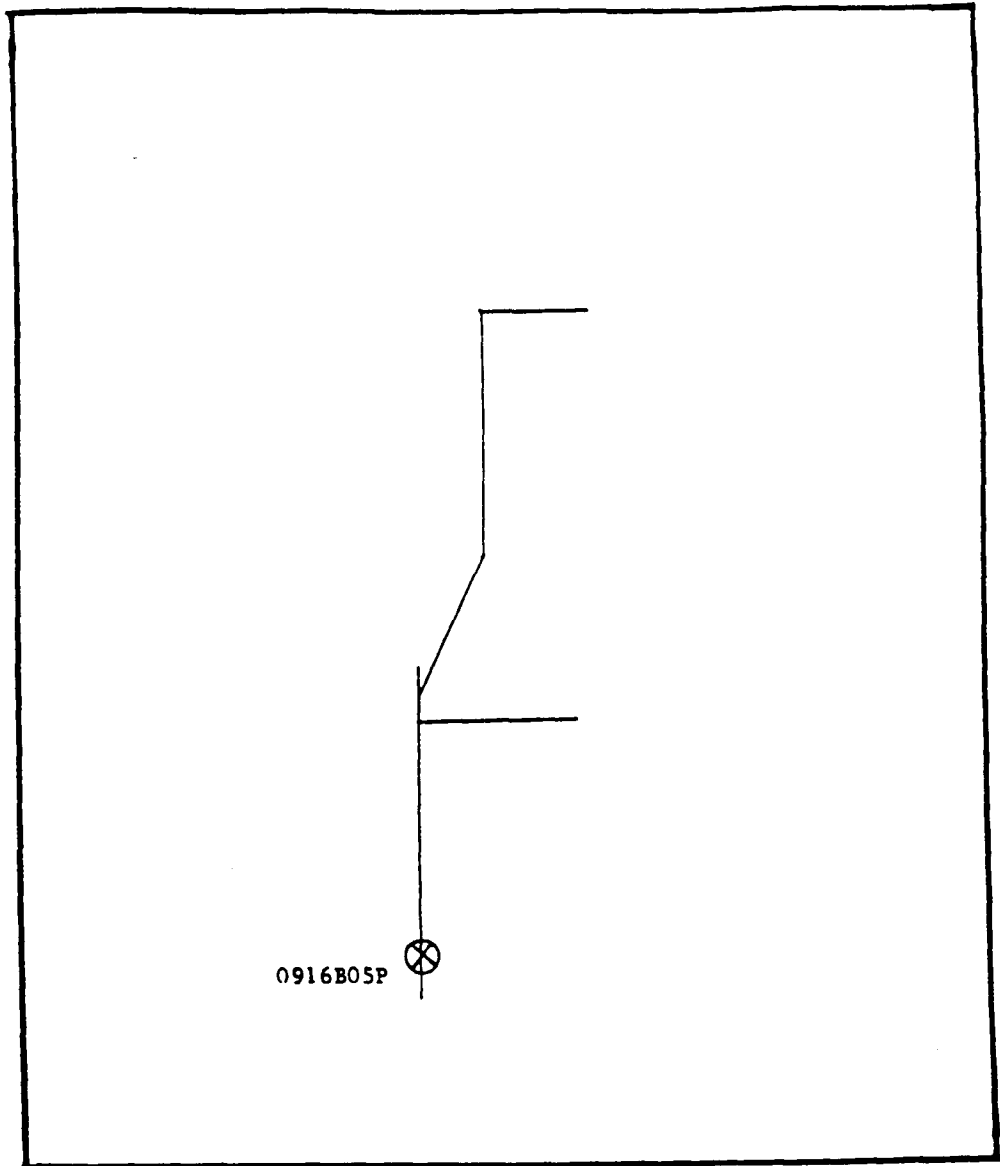


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CHRYSLER MOTOR CORPORATION
 ACUSTAR, INC.
 TRENTON CHEMICAL DIVISION
 POWER HOUSE
 9-6-88 TO 9-23-88
 P.A. 2088
 V.C. M.L. S.S.

N

DRAIN WATER SYSTEM

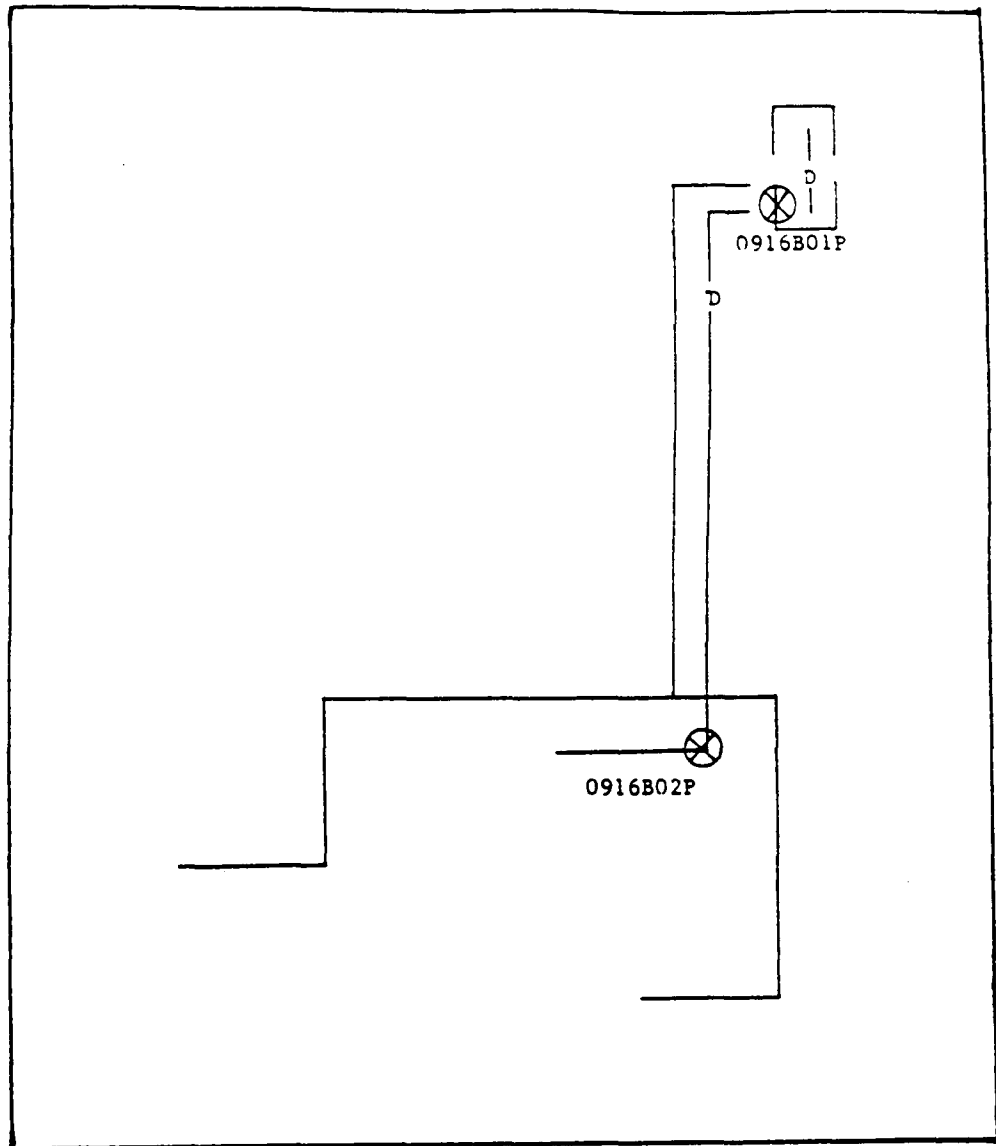


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CHRYSLER MOTOR CORPORATION
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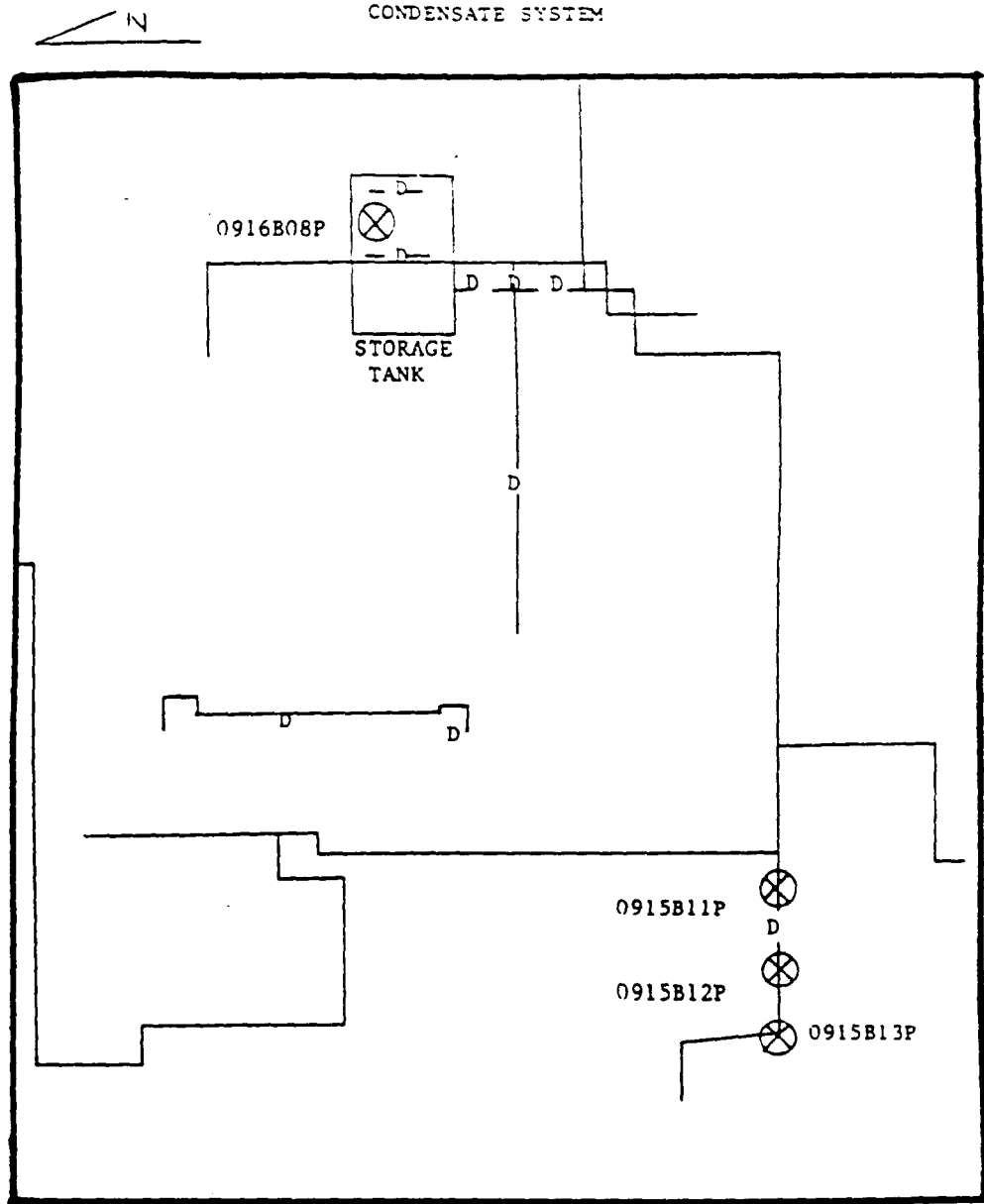
FEED WATER SYSTEM



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CHRYSLER MOTOR CORPORATION
ACUSTAR, INC.
TRENTON CHEMICAL DIVISION
POWER HOUSE
9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.

CONDENSATE SYSTEM

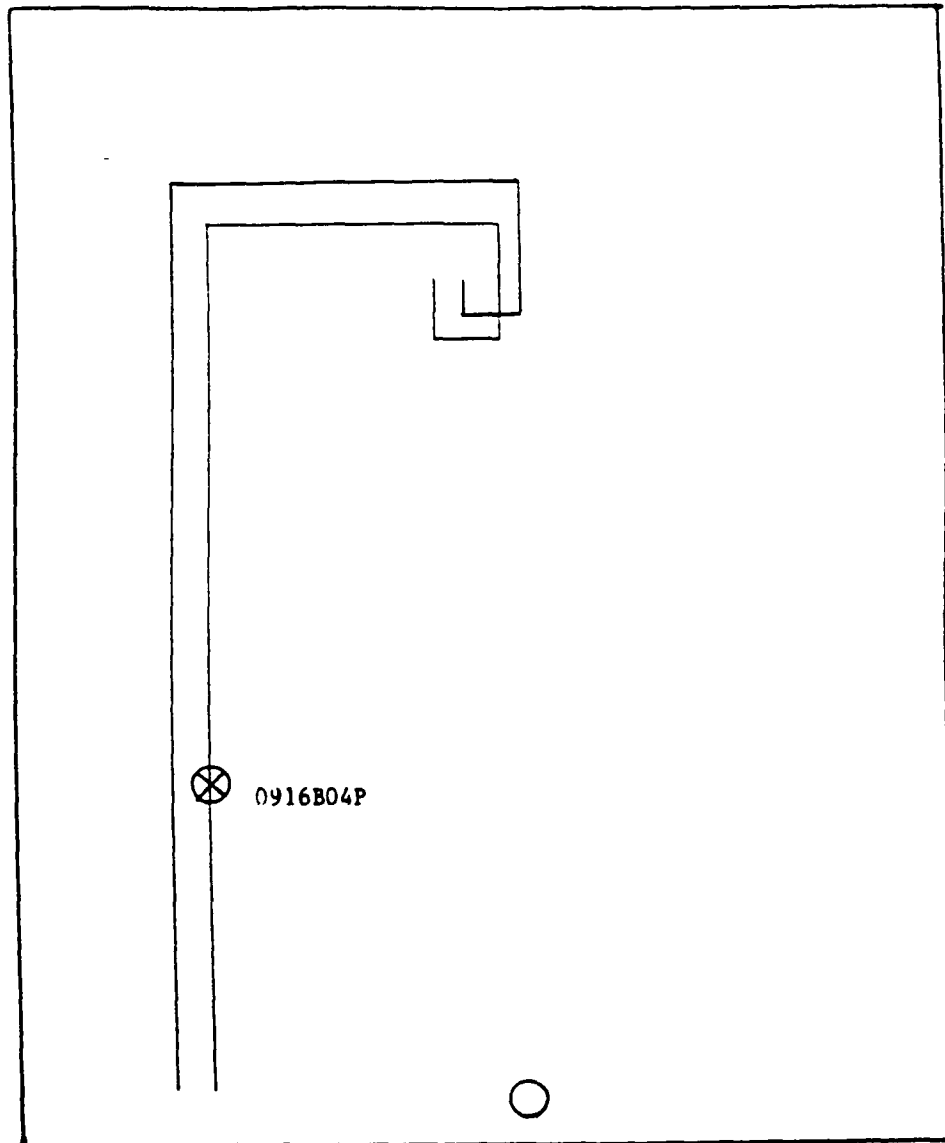


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CHRYSLER MOTOR CORPORATION
 ACUSTAR, INC.
 TRENTON CHEMICAL DIVISION
 POWER HOUSE
 9-6-88 TO 9-23-88
 P.A. 2088
 V.C. M.L. S.S.



MILL WATER SYSTEM

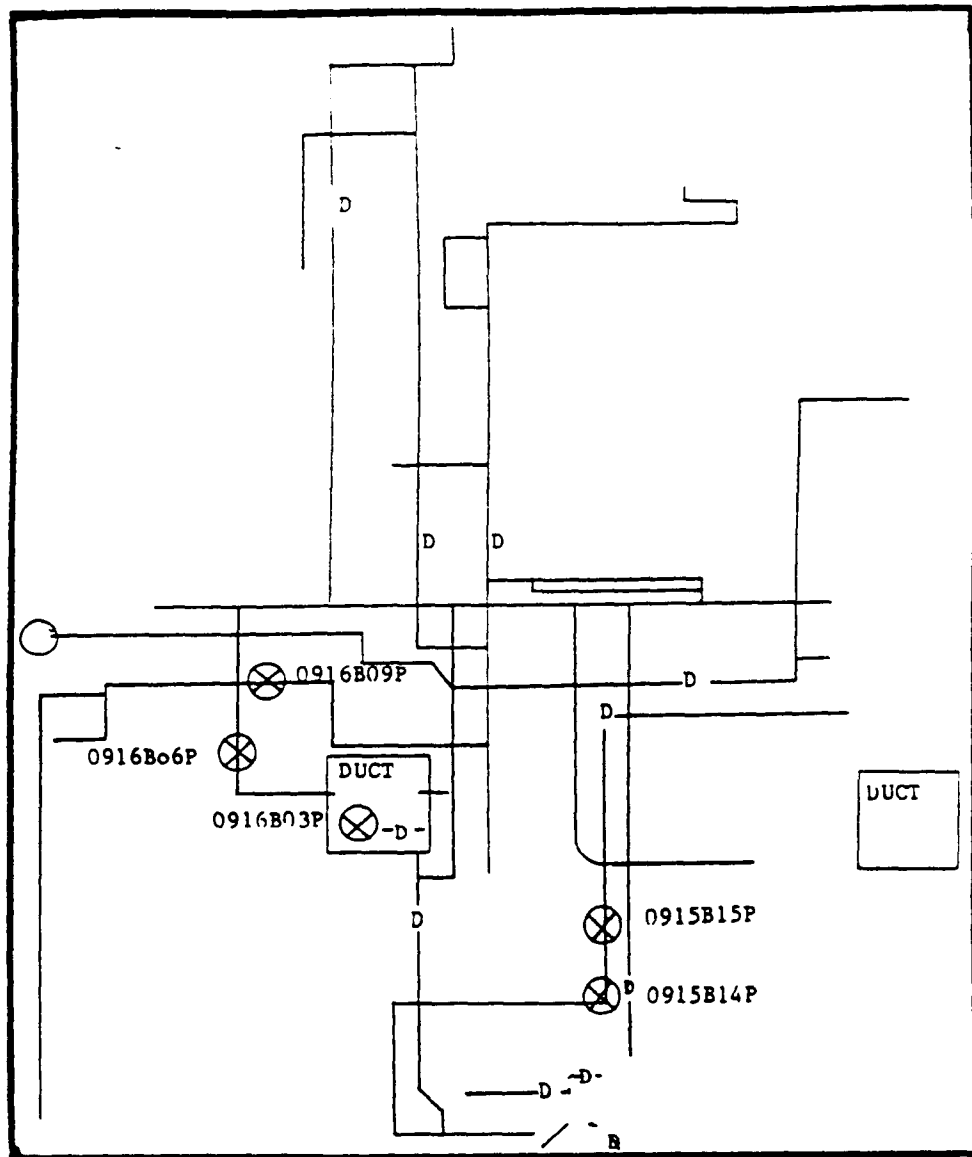


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9-6-88 TO 9-23-88
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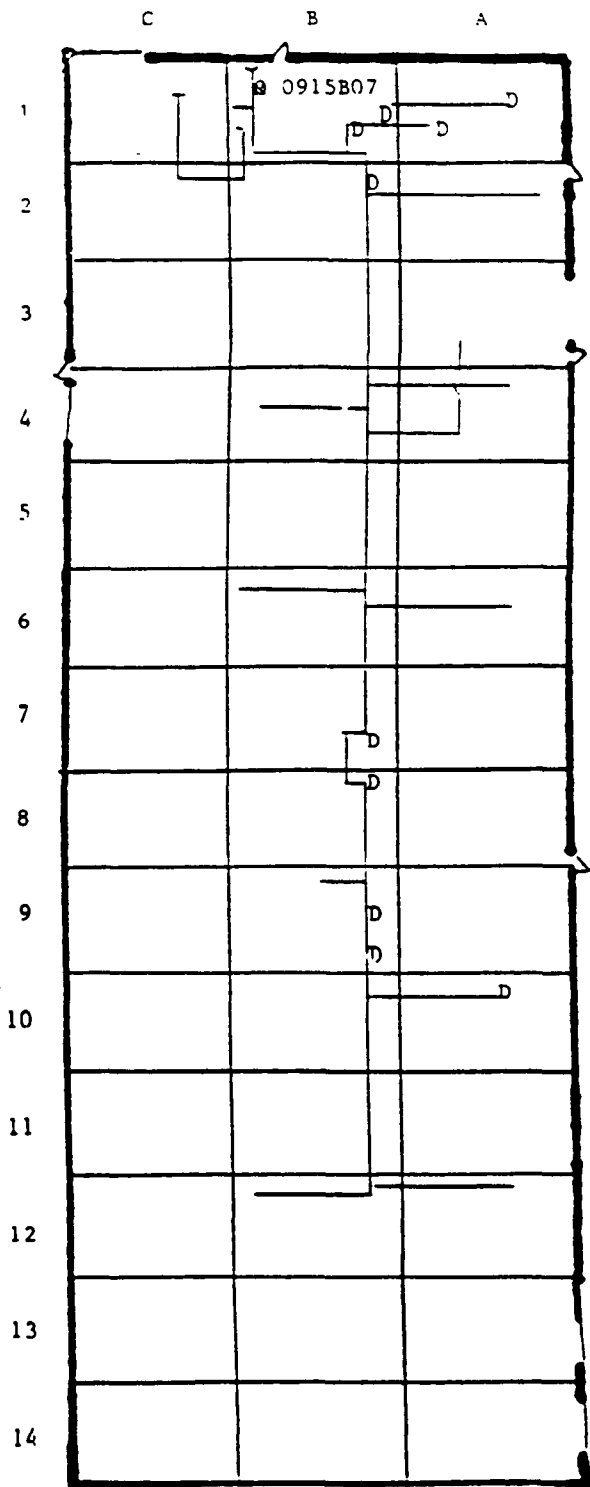
STEAM SYSTEM



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CHRYSLER MOTOR CORPORATION
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 9-6-88 TO 9-23-88
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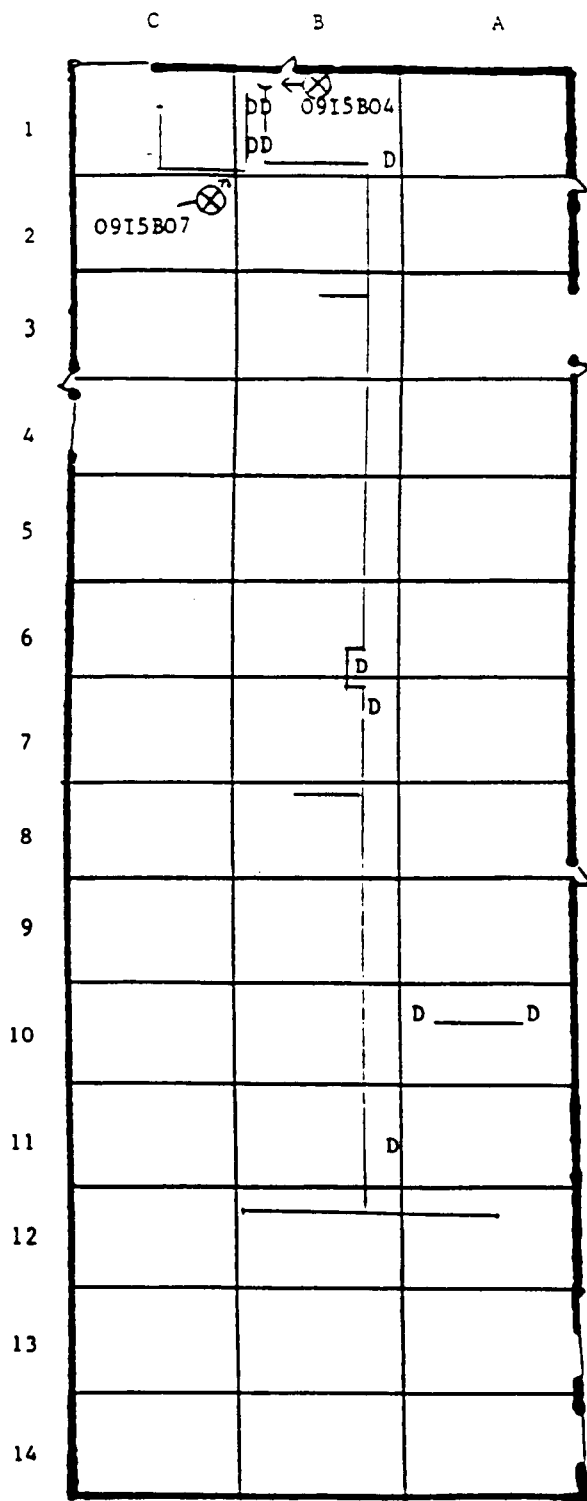
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STEAM SYSTEM

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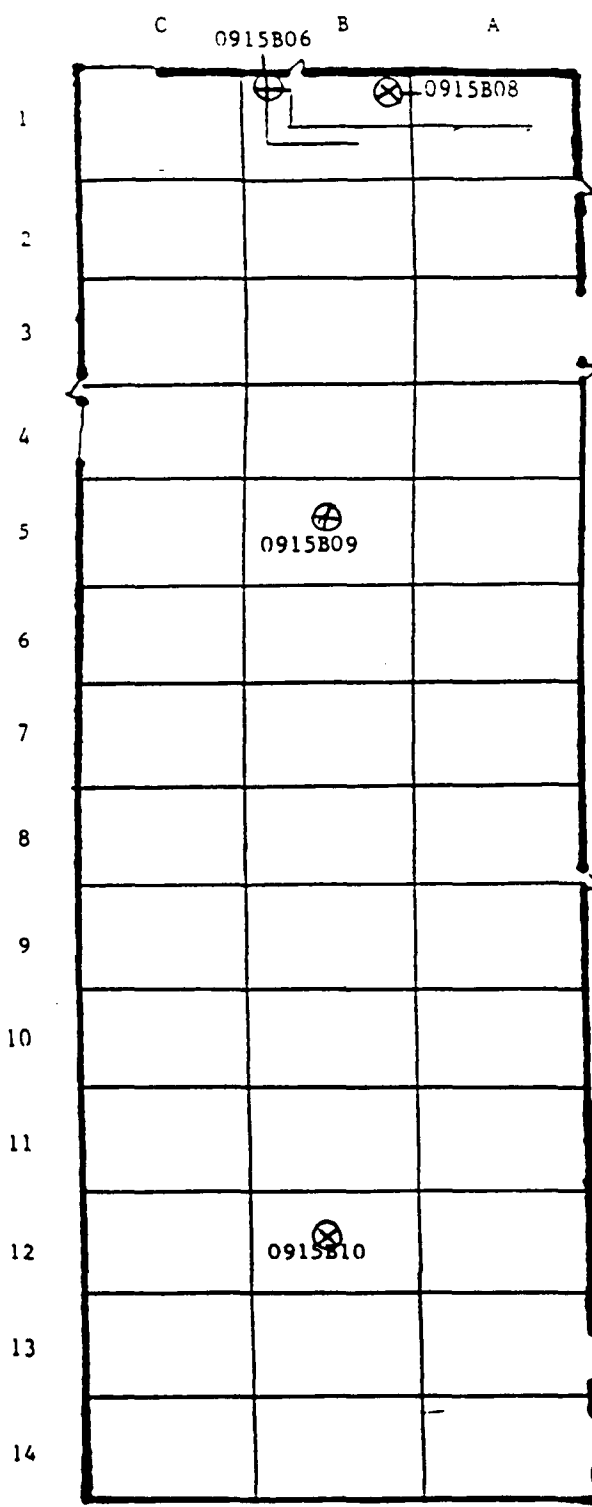
CHRYSLER MOTORS CORPORATION
ACUSTAR, INC.
TRENTON CHEMICAL DIVISION
MANUFACTURING BUILDING
9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.



CONDENSATE SYSTEM

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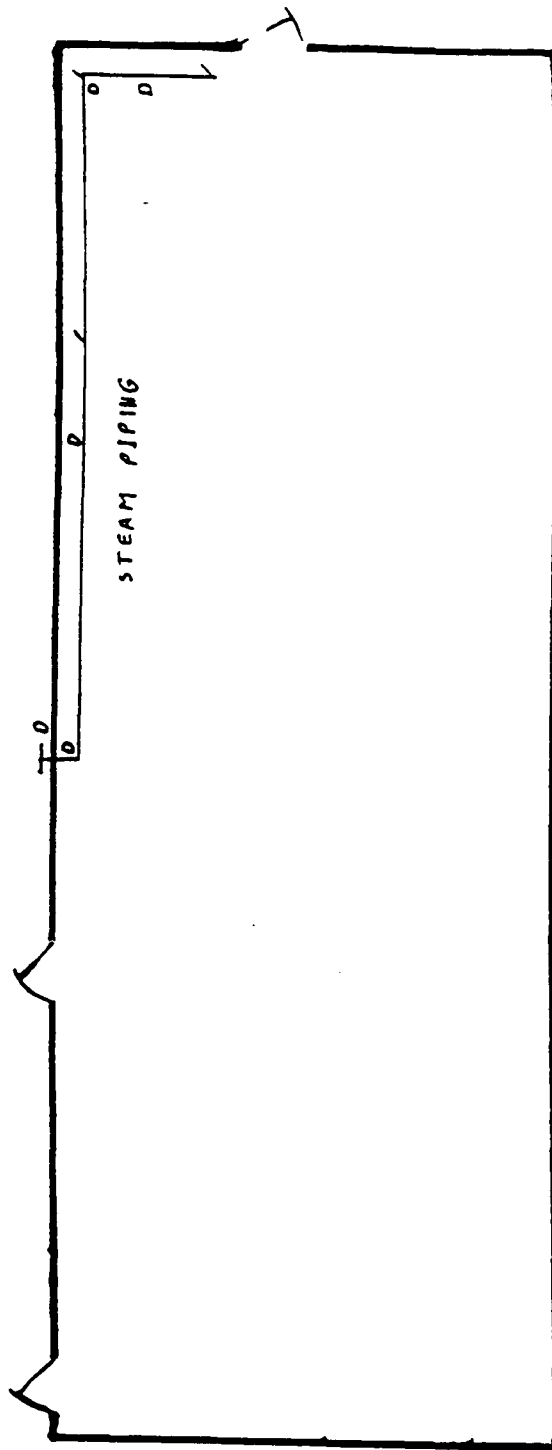
CHRYSLER MOTORS CORPORATION
ACUSTAR, INC.
TRENTON CHEMICAL DIVISION
MANUFACTURING BUILDING
9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.



CITY WATER SYSTEM

NOT TO SCALE
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CHRYSLER MOTORS CORPORATION
ACUSTAR, INC.
TRENTON CHEMICAL DIVISION
MANUFACTURING BUILDING
9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.



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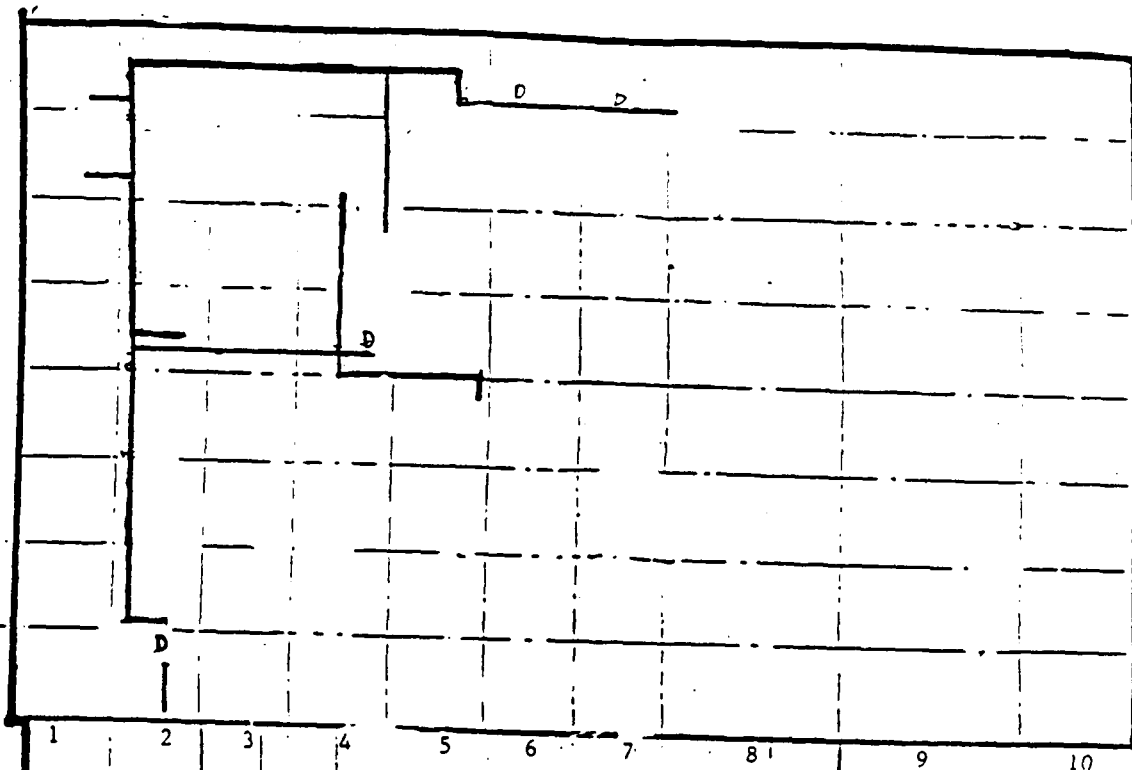
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CHRYSLER MOTORS CORPORATION
 ACUSTAR, INC.
 TRENTON CHEMICAL DIVISION
 PUMP HOUSE-SOLVENT
 9-6-88 TO 9-23-88
 P.A. 2088
 V.C. M.L. S.S.



MILL WATER AND MILL WATER RETURN PIPES

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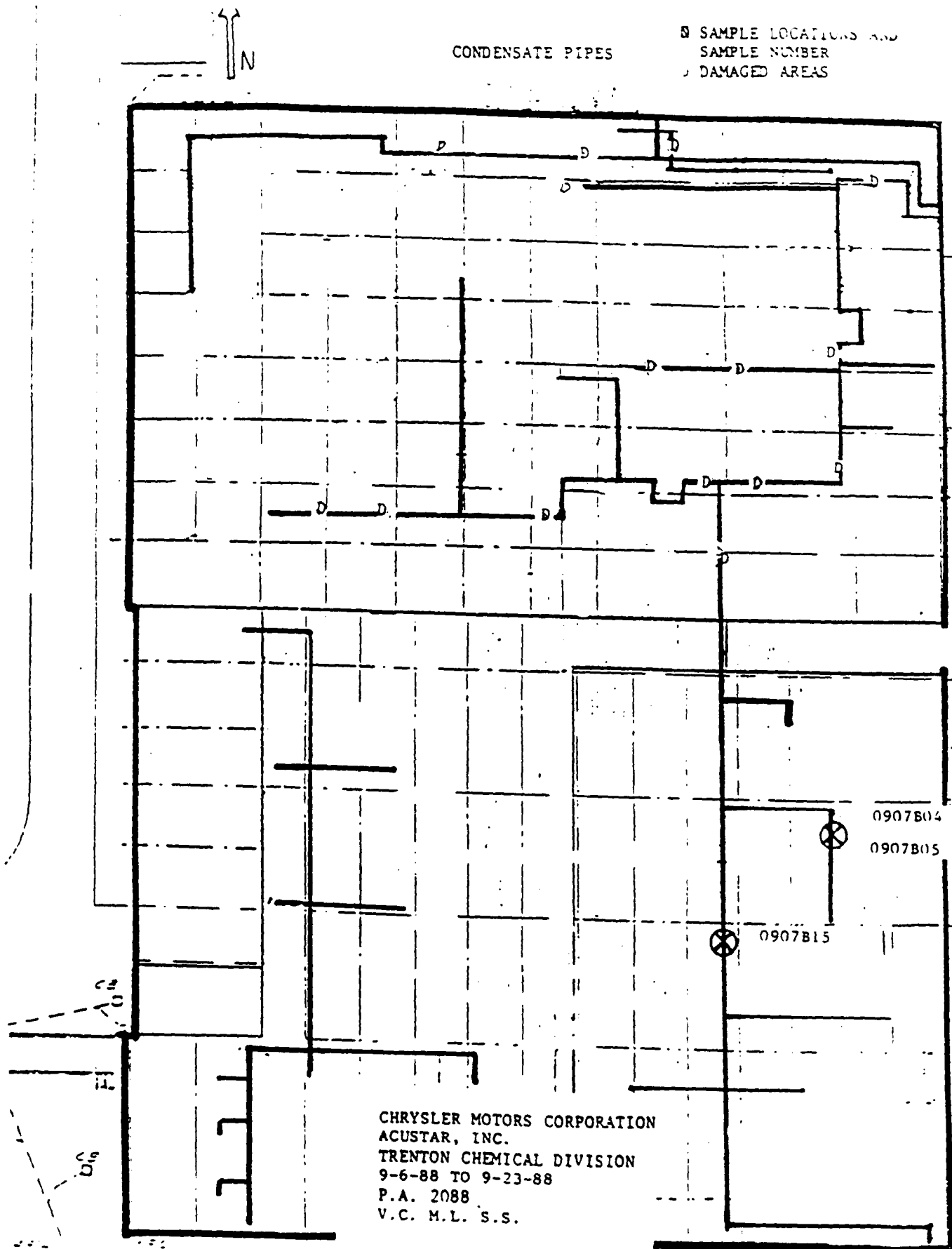


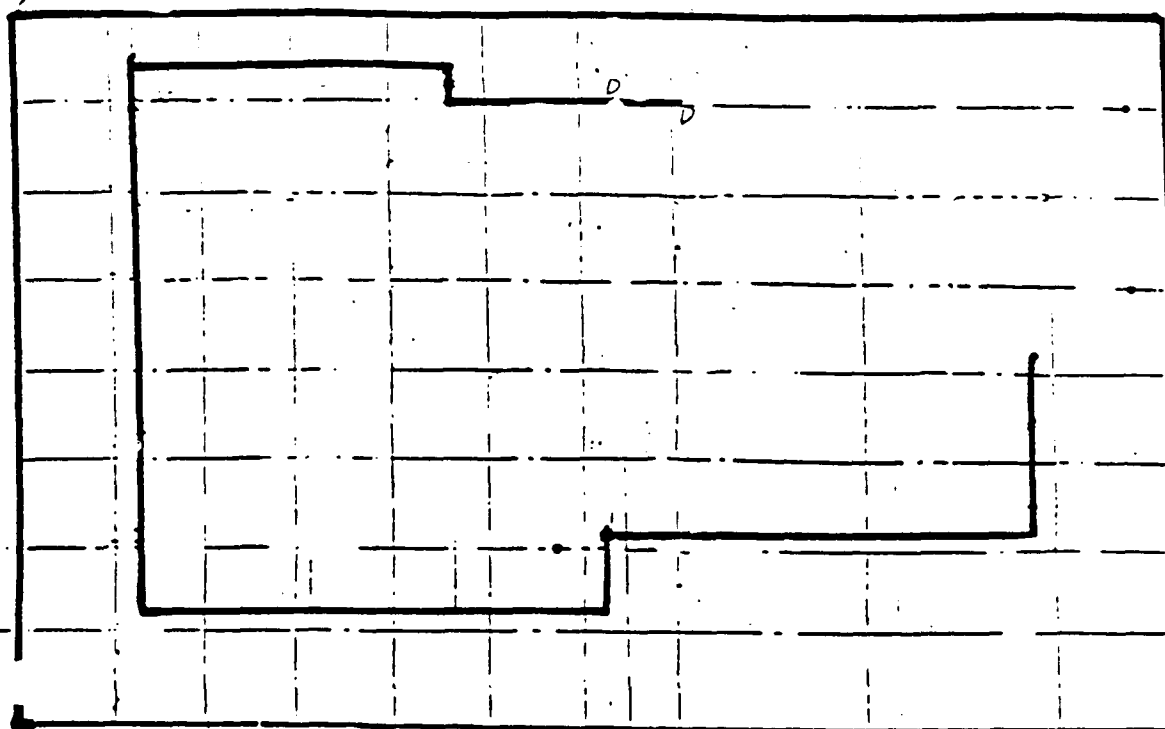
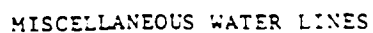
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CHRYSLER MOTORS CORPORATION
ACUSTAR, INC.
TRENTON CHEMICAL DIVISION
CHEMICAL BUILDING
9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.

CONDENSATE PIPES

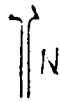
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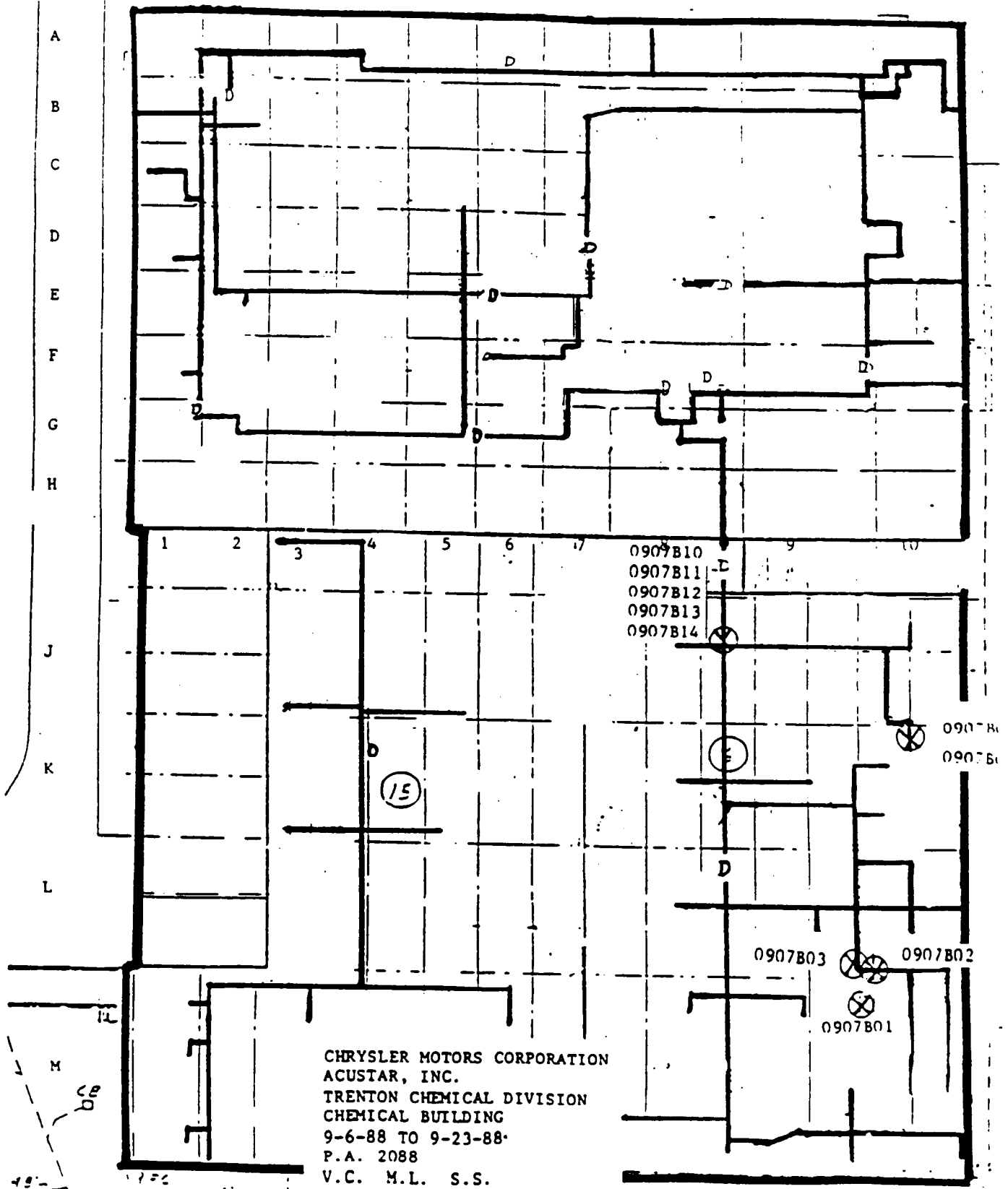
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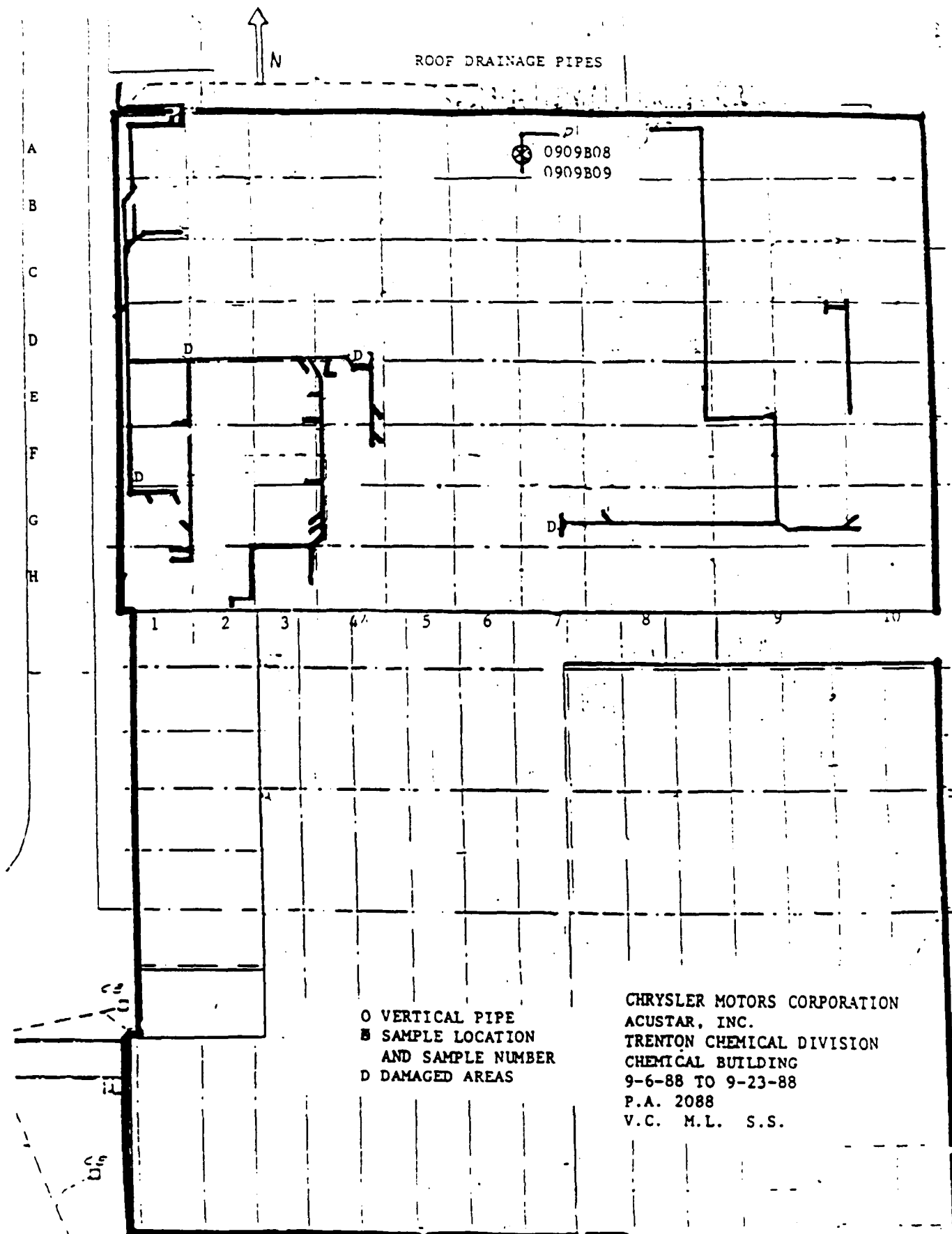
CHRYSLER MOTORS CORPORATION
ACUSTAR, INC.
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CHEMICAL BUILDING
9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.



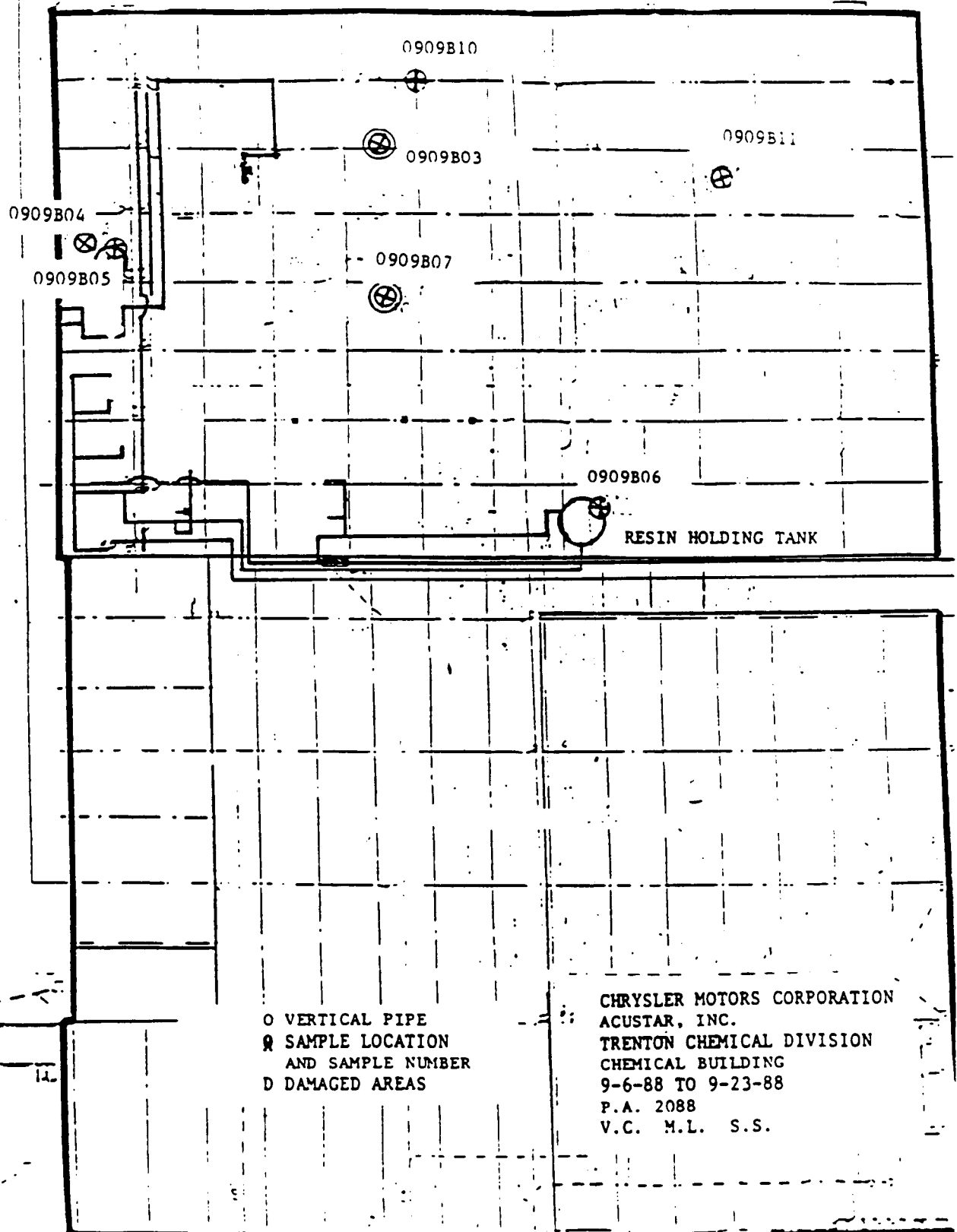
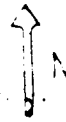
STEAM PIPES

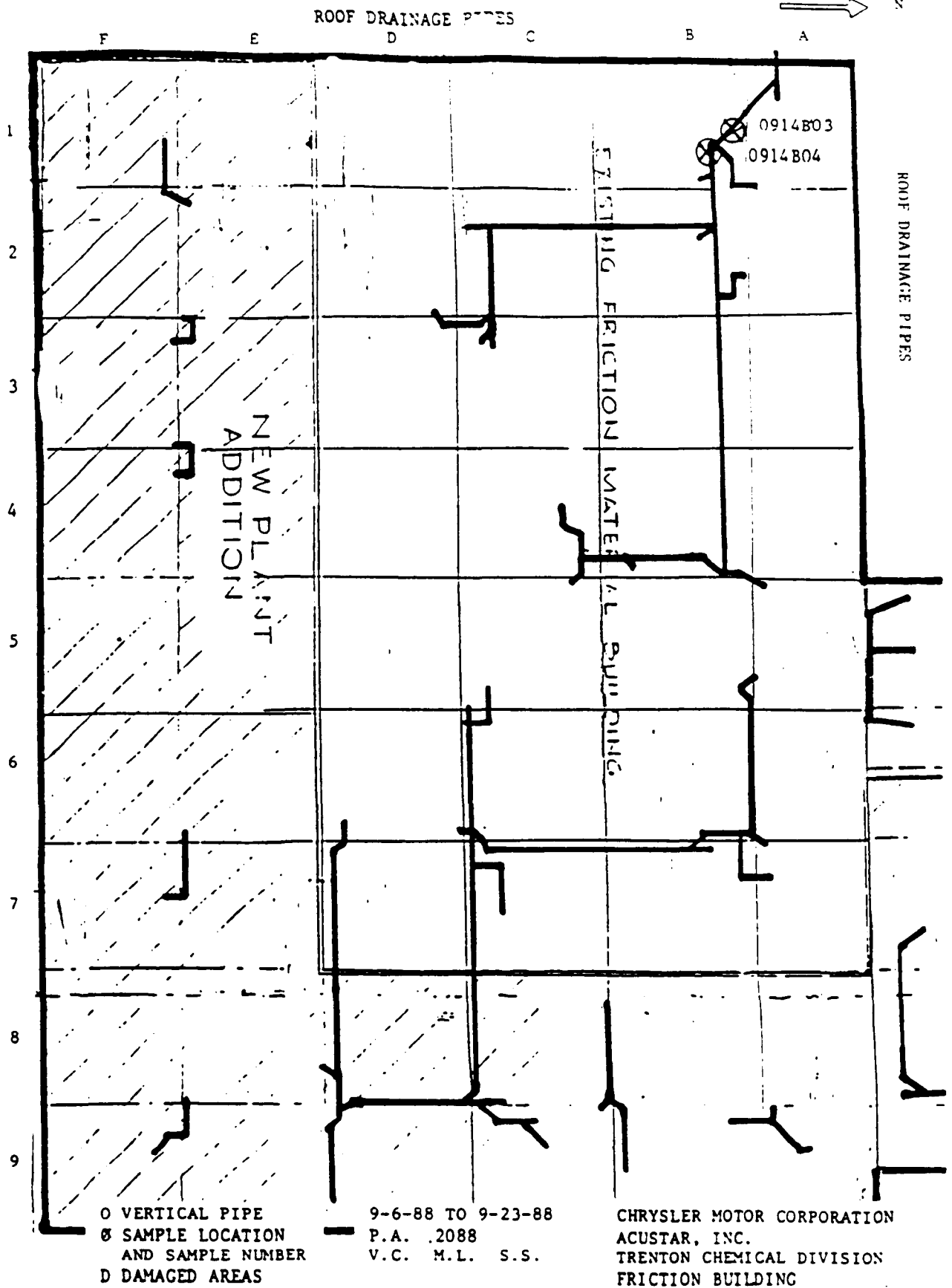
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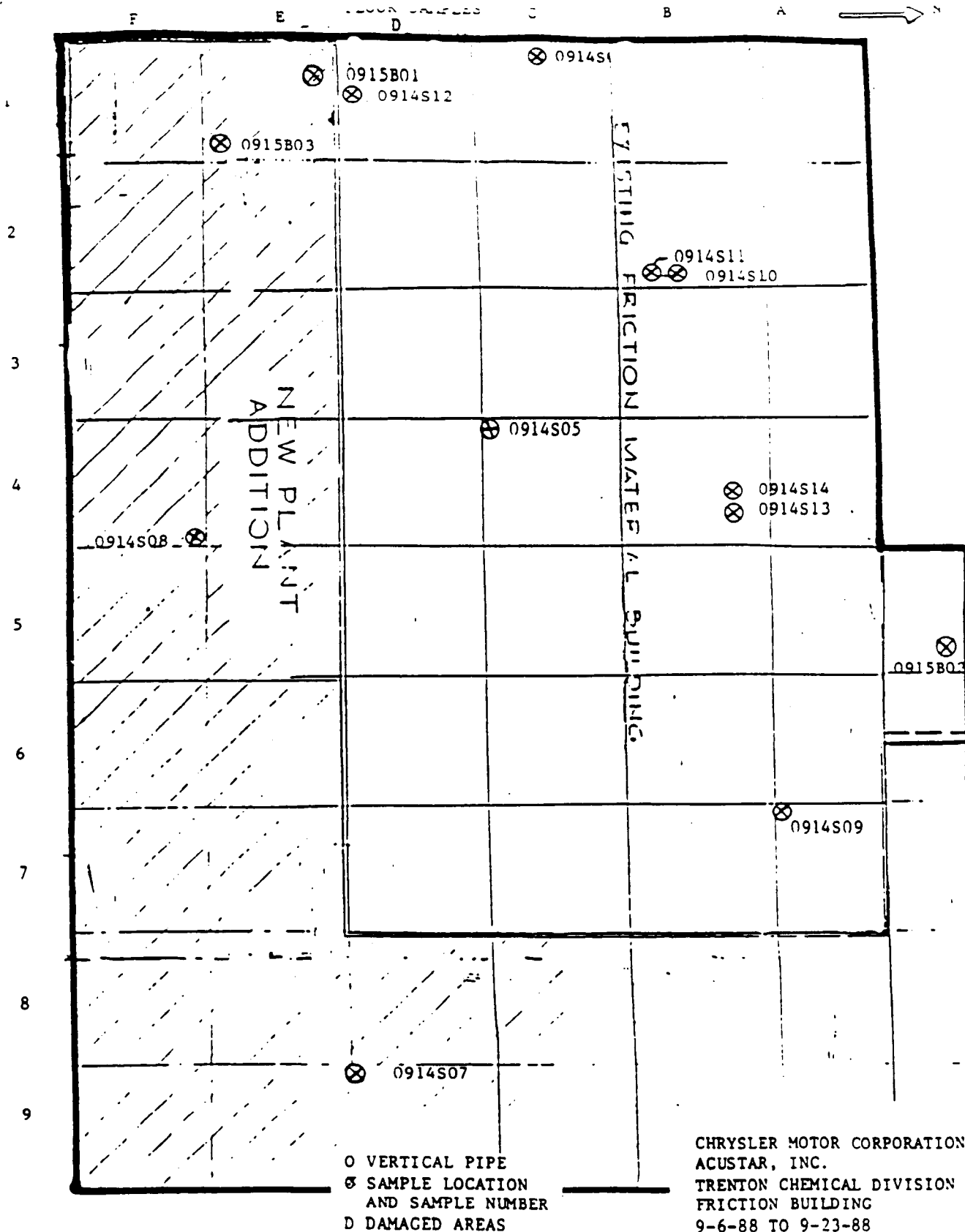


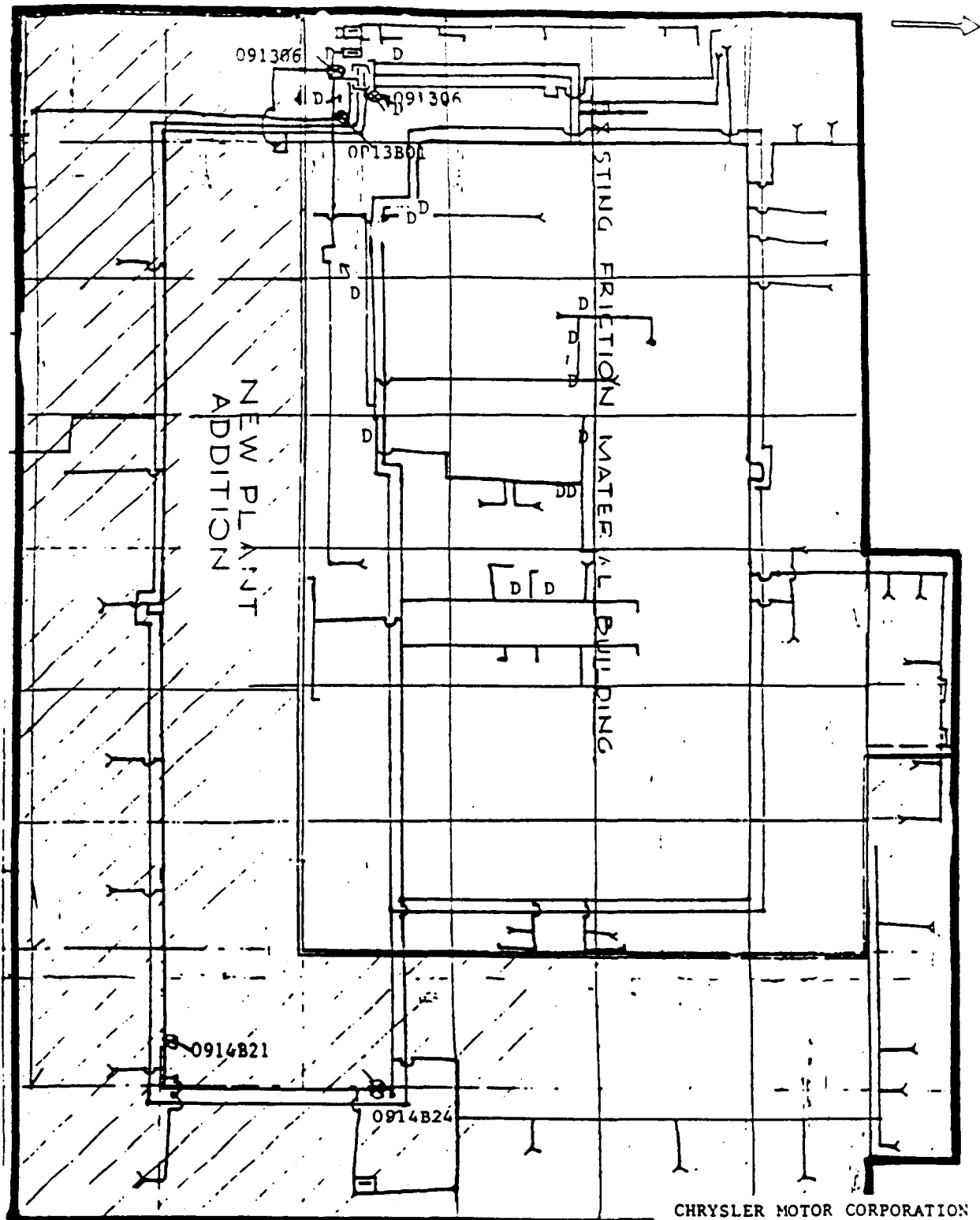


RESIN LINES AND BLUE TRANSPORT LINES





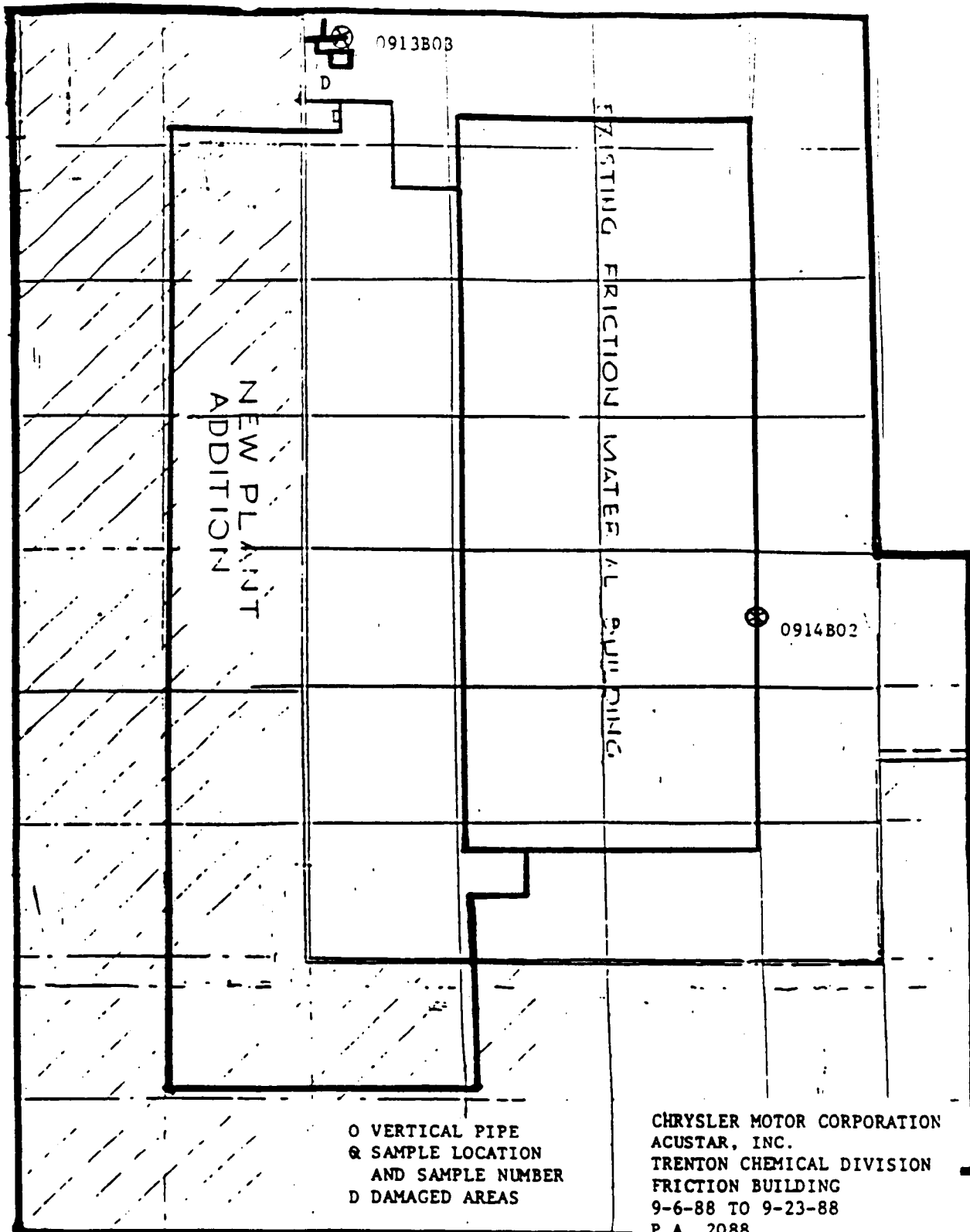
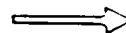




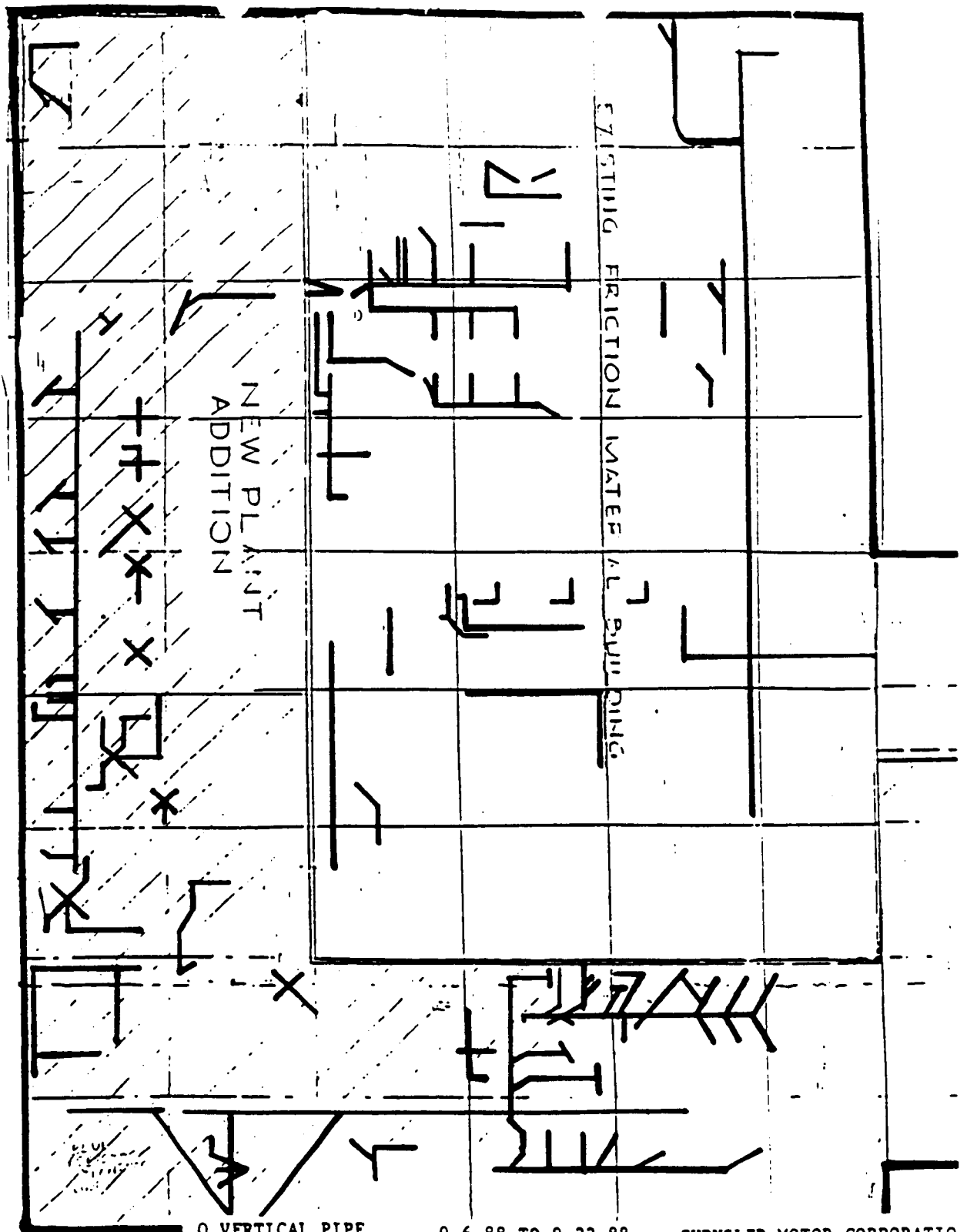
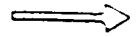
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CHRYSLER MOTOR CORPORATION
 ACUSTAR, INC.
 TRENTON CHEMICAL DIVISION
 FRICTION BUILDING
 9-6-88 TO 9-23-88
 P.A. 2088
 V.C. M.L. S.S.

CITY WATER



DUCT WORK WITHIN FRICTION BUILDING

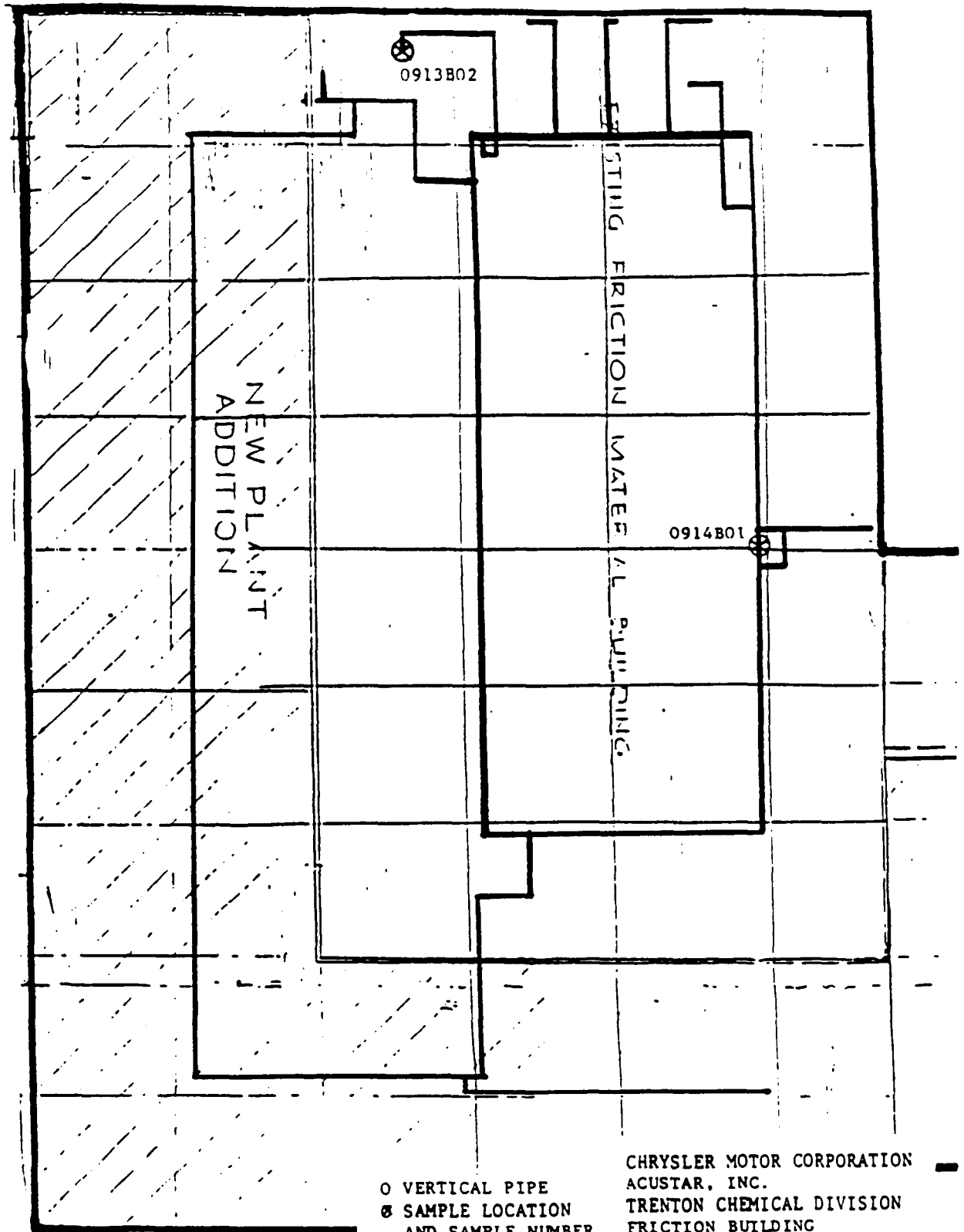
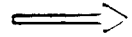


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9-6-88 TO 9-23-88
 P.A. 2088
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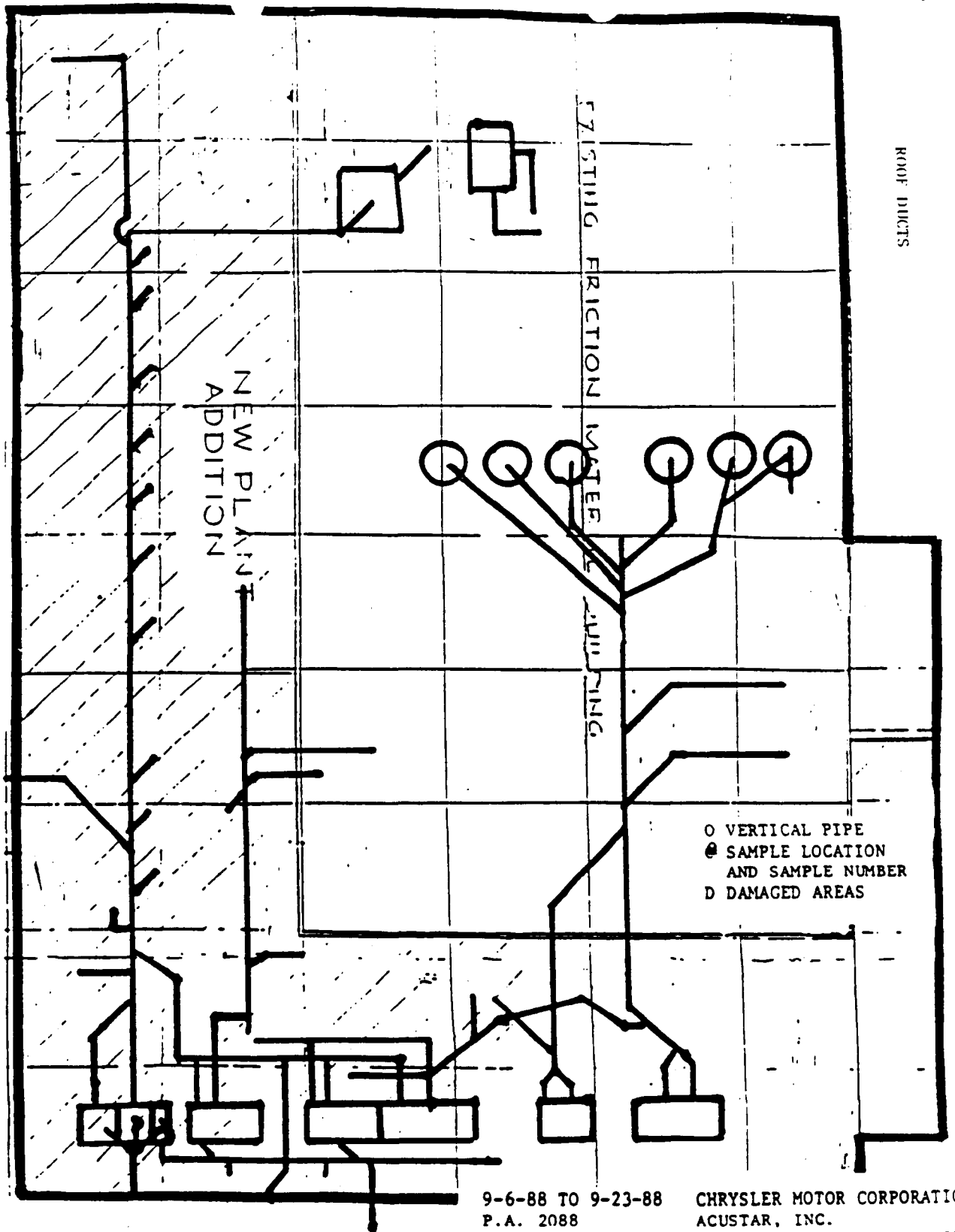
CHRYSLER MOTOR CORPORATIO
 ACUSTAR, INC.
 TRENTON CHEMICAL DIVISION
 FRICTION BUILDING

RIVER WATER



O VERTICAL PIPE
X SAMPLE LOCATION
AND SAMPLE NUMBER
D DAMAGED AREAS

CHRYSLER MOTOR CORPORATION
ACUSTAR, INC.
TRENTON CHEMICAL DIVISION
FRICTION BUILDING
9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.



9-6-88 TO 9-23-88
P.A. 2088
V.C. M.L. S.S.

CHRYSLER MOTOR CORPORATION
ACUSTAR, INC.
TRENTON CHEMICAL DIVISION
FRICTION BUILDING

APPENDIX I

INDUSTRIAL ENVIRONMENTAL CONSULTANTS, LTD.
ASBESTOS IDENTIFICATION SURVEY SHEETS

APPENDIX I
INDUSTRIAL ENVIRONMENTAL CONSULTANTS, LTD.
ASBESTOS IDENTIFICATION SURVEY SHEET

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Facility: Chrysler Motors Corporation - Trenton Chemical Plant

IEC Representatives: James Boland, Victor Cocco,
Marilyn Lake, and Scott Shepherd

Project No.: 2088

Date: September 7 - 16, 1988

SAMPLE ID/ IEC LAB NO.	SAMPLE LOCATION	PIPE/FIXTURE DESIGNATION	PHYSICAL DESCRIPTION	ESTIMATED QUANTITY	ASBESTOS	NON- ASBESTOS	COND. FACTOR
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CHEMICAL BUILDING

2088-0907-B01 21431	Mezzanine above Pilot Lab, Bay L-15	18" x 12" duct	Fibrous glass	Not Applicable	N.D. (<1%)	70% Fibrous glass 30% Mortar	1
2088-0907-B02 21432	Mezzanine above Pilot Lab, Bay L-15	4" steam straight run	Fibrous glass	Not Applicable	N.D. (<1%)	85% Fibrous glass 10% Cellulose 5% Mortar	1
2088-0907-B03 21433	Mezzanine above Pilot Lab, Bay L-15	4" steam elbow	White mud	134 fittings	5% Chrysotile	50% Mineral wool 35% Mortar 10% Cellulose	1
2088-0907-B04 21434	Mezzanine above Pilot Lab, Bay K-15	4" condensate return straight run	Fibrous glass	Not Applicable	N.D. (<1%)	95% Fibrous glass 5% Mortar	1
2088-0907-B05 21435	Mezzanine above Pilot Lab, Bay K-15	4" condensate return elbow	White mud	32 fittings	10% Chrysotile	40% Mortar 35% Mineral wool 10% Cellulose	1
2088-0907-B06 21436	Mezzanine above Pilot Lab, Bay K-16	4" steam straight run	White mag	150 linear feet	45% Chrysotile 10% Amosite	35% Mortar 10% Cellulose	1
2088-0907-B07 21437	Mezzanine above Pilot Lab, Bay K-16	4" steam elbow	White mud	57 fittings	60% Chrysotile	40% Mortar	1

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CHEMICAL BUILDING							
2088-0907-B08 21438	Mezzanine above Pilot Lab, Bay K-16	3" water straight run	Fibrous glass, foil and paper	50 linear feet	N.D. (<1%)	75% Fibrous glass 15% Cellulose 10% Mortar	1
2088-0907-B09 21439	Mezzanine above Pilot Lab, Bay K-16	3" water elbow	White mud	13 fittings	5% Amosite	50% Mineral wool 45% Mortar	1
2088-0907-B10 21440	Bay J-13	6" steam straight run	White mag	1,175 linear feet	30% Chrysotile 15% Amosite	30% Mortar 25% Cellulose	1
2088-0907-B11 21441	Bay J-13	8" steam straight run	White mag	1,000 linear feet	25% Chrysotile 20% Amosite	30% Mortar 25% Cellulose	1
2088-0907-B12 21442	Bay J-13	8" steam straight run	Dust on top of pipe	Not Applicable	N.D. (<1%)	98% Mortar 2% Cellulose	1
2088-0907-B13 21443	Bay J-13	8" steam elbow	White mud	54 fittings	35% Chrysotile	35% Mineral wool 25% Mortar 5% Cellulose	1
2088-0907-B14 21444	Bay J-13	6" condensate straight run	White mag	200 linear feet	50% Chrysotile 15% Amosite 15% Crocidolite	20% Mortar	1
2088-0907-B15 21445	Bay L-13	6" steam straight run	Gray aircell	Previously Quantified	20% Chrysotile	60% Cellulose 15% Mortar 5% Mineral wool	1
2088-0907-B16 21446	Bay M-15, south wall	Wall insulation	Mineral wool and foil	Not Applicable	N.D. (<1%)	40% Fibrous glass 30% Cellulose 20% Mortar 10% Hair	1

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<u>CHEMICAL BUILDING</u>							
2088-0907-B17 21447	Mezzanine level, Bay H-4	Resin line, 6" straight run	Fibrous glass	Not Applicable	N.D. (<1%)	95% Fibrous glass 5% Mortar	1
2088-0907-B18 21448	Mezzanine level, Bay H-4	Resin line, 6" elbow	Gray mud	Not Applicable	N.D. (<1%)	40% Mineral wool 40% Mortar	-
2088-0907-B19 21449	Mezzanine level, Bay H-4	Resin line, 6" valve cover	Gray mud over glass	Not Applicable	N.D. (<1%)	20% Cellulose 50% Cellulose 30% Mortar 20% Mineral wool	1
2088-0907-B20 21450	Room 27 near Bay E-1	Drain pipe, 10" straight run	Glass, gray wrap	Not Applicable	N.D. (<1%)	70% Fibrous glass 20% Cellulose 10% Mortar	1
2088-0907-B21 21451	Room 27 near Bay E-1	Drain pipe, 10" elbow	White mud	180 fittings	50% Chrysotile	30% Mineral wool 10% Cellulose 10% Mortar	1
2088-0907-B22 21452	Men's locker room, west storage room	Insulation above metal ceiling tile	Fibrous glass	Not Applicable	N.D. (<1%)	75% Fibrous glass 20% Cellulose 5% Mortar	1
2088-0908-B01 21396	Mezzanine level, Bay G-2	8" mill water straight run	Yellow and gray cardboard	840 linear feet	5% Chrysotile	90% Cellulose 5% Mortar	1
2088-0908-B02 21397	Mezzanine level, Bay G-2	8" mill water elbow	Gray mud over mineral wool	38 fittings	50% Chrysotile	20% Hair 15% Mortar 10% Mineral wool 5% Cellulose	1
2088-0908-B03 21398	Mezzanine level, Bay G-2	8" mill water return straight run	Yellow and gray cardboard	780 linear feet	5% Chrysotile	90% Cellulose 5% Mortar	1

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<u>CHEMICAL BUILDING</u>							
2088-0908-B04 21399	Mezzanine level, Bay G-2	8" mill water return elbow	Gray mud over mineral wool	35 fittings	50% Chrysotile	40% Mortar 5% Cellulose 5% Mineral wool	1
2088-0908-B05 21400	Mezzanine level, Room 26 near Bay D-1	6" mill water return straight run	Yellow and gray cardboard	390 linear feet	N.D. (<1%)	90% Cellulose 10% Mortar	1
2088-0908-B06 21401	Mezzanine level, Room 26 near Bay D-1	6" mill water straight run	Yellow and gray cardboard	460 linear feet	N.D. (<1%)	95% Cellulose 5% Mortar	1
2088-0908-B07 21402	Mezzanine level, Bay G-2	6" water line straight run	Yellow and gray cardboard	Not Applicable	N.D. (<1%)	98% Cellulose 2% Mortar	1
2088-0908-B08 21403	Mezzanine level, Bay G-2	6" water line elbow	Yellow and gray cardboard	18 fittings	35% Chrysotile	50% Cellulose 15% Mortar	1
2088-0908-B09 21404	Mezzanine level, Room 26 near Bay D-1	4" water line straight run	Yellow and gray cardboard	270 linear feet	3% Chrysotile	90% Cellulose 7% Mortar	1
2088-0908-B10 21405	Mezzanine level, pipe chase near old personnel off.	12" steam (orange) straight run	White mag	950 linear feet	35% Amosite 15% Chrysotile	50% Mortar	1
2088-0908-B11 21406	Mezzanine level, pipe chase near old personnel off.	10" condensate (green) straight run	Gray aircell	780 linear feet	60% Chrysotile	30% Mortar 10% Cellulose	1

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CHEMICAL BUILDING							
2088-0908-B12 21407	Mezzanine level, old personnel off.	9" floor tile	Brown tile/glue	1,000 square feet	Layer 1 - Tile 2# Chrysotile Layer 2 - Glue 2# Chrysotile	98# Mortar 98# Mortar	1
2088-0908-B13 21408	Mezzanine level, Room 27 near Bay E-1	10" transport line (blue) straight run	Fibrous glass	Not Applicable	N.D. (<1#)	50# Mineral wool 35# Mortar 15# Cellulose	1
2088-0908-B14 21409	Mezzanine level, Room 27 near Bay E-1	10" transport line (blue) elbow	White mud	38 fittings	N.D. (<1#)	85# Fibrous glass 10# Mortar 5# Cellulose	1
2088-0908-B15 21410	Roof level, at base of access way	Roof flashing	Black tar-like substance	Not Applicable	N.D. (<1#)	75# Mortar 25# Cellulose	1
2088-0908-B16 21411	Roof level, 40" south of of access way	Roof debris	Gray powdery substance	Not Applicable	N.D. (<1#)	100# Mortar	1
2088-0908-B17 21412	Roof level, 20' south of access way	South facing window	Window caulk	Not Applicable	3# Chrysotile	97# Mortar	1
2088-0909-B18 20656	Roof level, 10' north of access way	Roof insulation	Black powder	80,000 square feet	5# Chrysotile	90# Mortar 5# Cellulose	1
2088-0909-B19 21413	3rd floor, heater	4" steam line straight run	Yellowish aircell	400 linear feet	15# Chrysotile	70# Cellulose 15# Mortar	1
2088-0909-B20 21414	3rd floor, heater	4" steam line elbow	White mud	9 fittings	50# Chrysotile	50# Mortar	1

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<u>CHEMICAL BUILDING</u>							
2088-0908-R1 20657	Cold room	Wall concrete	Gray mortar	2,400 square feet	N.D. (<1%)	100% Mortar	1
2088-0908-B21 21415	Mezzanine level, Bay D-4	Damaged brick wall	White brick	350 square feet	N.D. (<1%)	100% Mortar	2
2088-0908-B22 21416	Mezzanine level, Bay D-4	Railing	Residue	Not Applicable	N.D. (<1%)	98% Mortar 2% Cellulose	3
2088-0908-B23 21417	In telephone room near old personnel off.	Plaster ceiling	White plaster	400 square feet	N.D. (<1%)	100% Mortar	1
2088-0908-B24 21418	Upper storage room	9" floor tile	Dark brown tile	750 square feet	Layer 1 - Glue N.D. (<1%) Layer 2 - Tile 1% Chrysotile	95% Mortar 5% Polystyrene 99% Mortar	1
2088-0908-B25 21419	Upper storage room	Pressed board ceiling	White powdery substance	750 square feet	65% Amosite	35% Mortar	1
2088-0908-B26 21420	Catwalk opposite east loading dock	Breaching and ductwork	Fibrous white	850 square feet	55% Chrysotile	35% Mortar 5% Cellulose 5% Mineral wool	1
2088-0909-B01 21385	1st floor, Bay C-3	8" city water straight run	Grayish cardboard	Not Applicable	N.D. (<1%)	90% Cellulose 10% Mortar	1
2088-0909-B02 21386	1st floor, Bay C-3	8" city water elbow	Gray mud	Previously Quantified	50% Chrysotile	25% Mineral wool 20% Mortar 5% Cellulose	1
2088-0909-B03 21387	Lower level, No. 2 paint center, Room 3	Undercoating tank	Paper, foil and glass	Not Applicable	N.D. (<1%)	70% Fibrous glass 30% Cellulose	1

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<u>CHEMICAL BUILDING</u>							
2088-0909-B04 21388	1st floor, Room 8 near Bay D-1	Heat exchanger	Gray mud over glass	Not Applicable	N.D. (<1%)	30% Mineral wool 25% Fibrous glass 25% Mortar 20% Cellulose	1
2088-0909-B05 21389	1st floor, Room 8 near Bay D-1	Tank in SE corner, insulation inside tank skin	Fibrous white substance	400 square feet	40% Chrysotile 10% Amosite	50% Mortar	3
2088-0909-B06 21390	1st floor, tank due west of loading dock	Tank (resin holding)	Fibrous white mag	1,100 square feet	50% Amosite 25% Chrysotile	25% Mortar	3
2088-0909-B07 21391	1st floor, Bay E-5	Bottom covering of metal cased tank (old blender)	Brown cardboard over glass	150 square feet	25% Chrysotile	45% Mortar 25% Mineral wool 5% Synthetic	1
2088-0909-B08 21392	1st floor, NE room, lab area	4" drain water straight run	Gray aircell	230 linear feet	50% Chrysotile	25% Cellulose 25% Mortar	1
2088-0909-B09 21393	1st floor, NE room, lab area	4" drain water elbow	Yellow mud	24 fittings	65% Chrysotile	20% Mortar 15% Cellulose	1
2088-0909-B10 21394	1st floor, E-W corridor and front offices	Floor tile	Gray floor tile	2,400 square feet	Layer 1 - Tile 1% Chrysotile Layer 2 - Glue N.D. (<1%)	99% Mortar 50% Mortar 35% Cellulose 15% Synthetic	1

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<u>CHEMICAL BUILDING</u>							
2088-0909-B11 21395	Quality Control Area	Floor tile	Light brown tile	7,000 square feet	N.D. (<1%)	98% Mortar 2% Cellulose	1
<u>ERIECION BUILDING</u>							
2088-0913-B01 22378	Bay D-1	16" steam riser	Orange painted canvas over fiberglass	Not Applicable	N.D. (<1%)	100% Fibrous glass	2
2088-0913-B02 22379	Bay D-1	8" river water riser	Green painted canvas over fiberglass	Not Applicable	N.D. (<1%)	99% Fibrous glass 1% Cellulose	1
2088-0913-B03 22380	Bay D-1	8" city water riser	Lime green painted canvas over fiberglass	Not Applicable	N.D. (<1%)	94% Fibrous glass 5% Mortar 1% Cellulose	1
2088-0913-B04 22381	Bay D-1	16" condensate pipe riser	Dark green painted canvas over fiberglass	Not Applicable	N.D. (<1%)	100% Fibrous glass	1
2088-0913-B05 22382	Mezzanine, Bay D-1	Steam elbow	Yellow-gray mud covered by orange canvas	739 fittings	40% Chrysotile	40% Mortar 20% Mineral wool	1
2088-0913-B06 22383	Mezzanine, Bay D-1	Condensate high and low pressure tank wrapping	Whitish mud over fiberglass	400 square feet	40% Chrysotile	30% Mortar 29% Mineral wool 1% Cellulose	2
2088-0913-B07 22384	Bay D-1	Condensate elbow, riser	Dark green painted canvas over yellow/gray mud	628 fittings	40% Chrysotile	30% Mineral wool 29% Mortar 1% Cellulose	1

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FRICITION BUILDING							
2088-0914-B01 22418	Saw Mezzanine	River water elbow	Light green painted canvas over gray mud	89 fittings	10% Chrysotile	65% Mortar 20% Mineral wool 5% Cellulose	1
2088-0914-B02 22419	Saw Mezzanine	City water elbow	Yellow green painted canvas over gray mud	46 fittings	10% Chrysotile	60% Mortar 30% Mineral wool	
2088-0914-B03 22420	Mezzanine, Bay B-1	16" drainage pipe	Brown canvas over fiberglass	Not Applicable	N.D. (<1%)	80% Cellulose 20% Mineral wool	1
2088-0914-B04 22421	Mezzanine, Bay B-1	Drainage elbow	Brown canvas over gray mud	226 fittings	30% Chrysotile	55% Mortar 15% Mineral wool	1
2088-0914-S05 22422	Bay post area C/D - 3/4	Floor wipe	Concrete floor	Not Applicable	N.D. (<1%)	* Cellulose Mortar	1
2088-0914-S06 22423	Bay post area C-1, center	Floor wipe	Concrete floor	Not Applicable	N.D. (<1%)	* Cellulose Mortar	1
2088-0914-S07 22424	Bay post area area E/D - 8/9	Floor wipe	Concrete floor	Not Applicable	N.D. (<1%)	* Cellulose Mortar	1
2088-0914-S08 22425	Bay post area E/F - 4/5	Floor wipe	Concrete floor	Not Applicable	** Chrysotile	Cellulose Mortar	1
2088-0914-S09 22426	Bay post area A/B - 6/7	Floor wipe	Concrete floor	Not Applicable	N.D. (<1%)	* Mortar	1
2088-0914-S10 22427	No. 4 lower transport elevator	Floor wipe	Metal elevator, floor inside door	Not Applicable	N.D. (<1%)	* Cellulose Mortar	1

* Samples not quantitated due to small sample size

**Evidence of material present but unquantifiable

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FRICITION BUILDING							
2088-0914-S11 22428	No. 4 upper transport elevator	Opening to shaft - Mezzanine	Concrete base of opening	Not Applicable	20% Chrysotile	75% Mortar 5% Cellulose	1
2088-0914-S12 22429	Mezzanine, Bay D-1	Ceiling beam wipe sample	Yellow painted metal beam	Not Applicable	N.D. (<1%)	* Mortar	
2088-0914-S13 22430	Bay B-4, transport bin storage	Storage bin wipe sample	Top of metal bin No. 11	Not Applicable	N.D. (<1%)	* Cellulose Mortar	1
2088-0914-S14 22431	Bay B-4, transport bin storage	Storage bin wipe sample	Inside floor of bin No. 4	Not Applicable	** Chrysotile	Cellulose Mortar	1
2088-0914-B15 22436	Basement, NW corner	Condensate pipe	Green painted canvas over fiberglass	Not Applicable	N.D. (<1%)	70% Mineral wool 20% Fibrous glass 10% Mortar	1
2088-0914-B16 22437	Basement, NW corner	Condensate elbow	Green painted canvas over white mud	28 fittings	N.D. (<1%)	70% Mortar 25% Mineral wool 5% Cellulose	1
2088-0914-B17 22438	Basement, NW corner	Steam pipe	Orange canvas over fiberglass	60 linear feet	N.D. (<1%)	60% Mineral wool 40% Mortar	1
2088-0914-B18 22439	Basement, NW corner	Steam elbow	Orange canvas over white mud	42 fittings	N.D. (<1%)	40% Mortar 35% Mineral wool 25% Cellulose	1
2088-0914-B19 22440	Basement, SE corner	City water valve	Light blue canvas over white mud	6 fittings	N.D. (<1%)	65% Mortar 25% Mineral wool 10% Cellulose	1

* Samples not quantitated due to small sample size
** Evidence of material present but unquantifiable

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<u>FRICTION BUILDING</u>							
2088-0914-B20 22441	Between building north wall and holding tanks outside	Building to tanks piping	Metal over cloth over mud (white) over fiberglass	32 linear feet	N.D. (<1%)	60# Mortar 25# Mineral wool 15# Fibrous glass	1
2088-0914-B21 22432	Bay area E/F - 8	8" low pressure steam	Red canvas covering gray mag	1,000 linear feet	40# Chrysotile	30# Polystyrene 20# Mortar 10# Fibrous glass	1
2088-0914-B22 22433	Bay area E/F - 8	6" high pressure condensate	Dark green painted canvas covering gray mag	810 linear feet	35# Chrysotile	65# Mortar	1
2088-0914-B23 22434	Bay area E/F - 8	8" low pressure condensate	Dark green painted canvas covering gray mag	570 linear feet	30# Chrysotile	60# Polystyrene 10# Mortar	1
2088-0914-B24 22435	Bay area C/D - 8/9	14" high pressure steam	Red painted canvas covering gray mag	535 linear feet	40# Chrysotile	30# Cellulose 30# Mortar	1
2088-0915-B01 22392	Lunch room, NW corner	Floor	Poured floor, greenish	Not Applicable	N.D. (<1%)	95# Mortar 4# Cellulose 1# Cellulose	1
2088-0915-B02 22393	Dyno office, NE corner	Floor tile	Gray vinyl tile	2,800 square feet	Layer 1 - Tile 3# Chrysotile Layer 2 - Glue N.D. (<1%)	97# Mortar 95# Mortar 5# Cellulose	1 1 1
2088-0915-B03 22394	2nd floor, SE corner of south room above lunch room	Floor tile	Gray vinyl tile	3,000 square feet	1# Chrysotile	98# Mortar 1# Cellulose	1

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<u>BUILDING 20</u>							
2088-0915-B04 22365	Bay B-1	Steam line, riser	Orange canvas over white mag	858 linear feet	60% Amosite 20% Chrysotile	20% Mortar	1
2088-0915-B05 22366	Bay B-1	Condensate line, riser	White canvas aircell	470 linear feet	70% Chrysotile	20% Mortar 10% Polystyrene	
2088-0915-B06 22367	Bay B-1	City water, riser	White canvas aircell	Not Applicable	N.D. (<1%)	65% Cellulose 20% Polystyrene 10% Mortar 5% Synthetic	1
2088-0915-B07 22368	Bay C-1	Condensate elbow	White canvas over white mud	Not Applicable	N.D. (<1%)	70% Mortar 20% Mineral wool 10% Cellulose	1
2088-0915-S08 22369	Bay A-1	Dust on ceiling tile	Gray dust	Not Applicable	N.D. (<1%)	60% Synthetic 20% Cellulose 20% Mortar	1
2088-0915-S09 22370	Bay B-5	Floor	Floor dust	Not Applicable	N.D. (<1%)	50% Cellulose 50% Mortar	1
2088-0915-S10 22371	Bay B-12	Floor	Floor dust	Not Applicable	N.D. (<1%)	100% Mortar	1
2088-0915-B11 22372	Exterior overhead tank piping tram	Transfer line on tram 40' east of Bldg. line, metal cover	Metal on fiberglass, main line, metal cover	Not Applicable	N.D. (<1%)	80% Fibrous glass 20% Mortar	1
2088-0915-B12 22373	Exterior overhead tank piping tram	Transfer line on tram 40' east of Bldg. exposed elbow	Gray mud and fiberglass, exposed elbow	Not Applicable	60% Chrysotile	20% Fibrous glass 20% Mortar	1

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POWERHOUSE							
2088-0915-B11P 22385	2nd floor, 10' from SW wall at Boiler 2	8" condensate pipe, straight run	Green painted canvas over aircell	30 linear feet	25% Chrysotile	50% Cellulose 25% Mortar	1
2088-0915-B12P 22386	2nd floor, 10' from SW wall at Boiler 2	8" condensate pipe, straight	Fibrous glass	Not Applicable	N.D. (<1%)	80% Mineral wool 10% Fibrous glass 10% Mortar	1
2088-0915-B13P 22387	Upper level, west wall 10' from south wall	8" condensate return elbow	White mud over glass	28 fittings	N.D. (<1%)	60% Mineral wool 20% Cellulose 20% Fibrous glass	1
2088-0915-B14P 22388	Upper level, 10' from west and south wall	12" steam elbow	White mud over fibrous glass	120 fittings	35% Chrysotile	40% Mortar 25% Fibrous glass	1
2088-0915-B15P 22389	Upper level, 10' from west and south wall	12" steam straight run	Fibrous glass	Not Applicable	N.D. (<1%)	80% Fibrous glass 10% Cellulose 10% Mortar	1
2088-0915-B16P 22390	Upper level, 10' from west and south wall	8" city water straight run	Gray cardboard- like substance	40 linear feet	N.D. (<1%)	90% Cellulose 10% Mortar	1
2088-0915-B17P 22391	Upper level at west wall, 10' from south wall	8" city water elbow	White mud over glass	57 fittings	N.D. (<1%)	80% Mineral wool 10% Mortar 5% Cellulose 5% Fibrous glass	1
2088-0916-B01P 22405	At pumps	8" feed line pipe	Green painted cheesecloth over white masg	160 linear feet	50% Chrysotile	49% Mortar 1% Cellulose	1

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POWERHOUSE							
2088-0916-B02P 22406	Above Boiler No. 2	8" feed line elbow	Green painted cheesecloth over white mud over fiberglass	23 fittings	25# Chrysotile	25# Cellulose 25# Fibrous glass 25# Mortar	1
2088-0916-B03P 22407	Duct work above Boiler No. 1	Duct work housing	White painted canvas over white mud	400 square feet	40# Chrysotile	50# Mortar 5# Cellulose 5# Fibrous glass	2
2088-0916-B04P 22408	2nd floor, north of Boiler No. 1	Mill water elbow	Green painted cheesecloth over white mud	30 fittings	20# Chrysotile	50# Mortar 20# Mineral wool 10# Cellulose	1
2088-0916-B05P 22409	2nd floor, west of Boiler No. 1	Drain water elbow	Brown painted cheesecloth over white mud over fiberglass	15 fittings	15# Chrysotile	50# Fibrous glass 25# Cellulose 10# Mortar	1
2088-0916-B06P 22410	2nd floor, north of Boiler No. 1	8" steam line pipe	Orange painted canvas over white fibrous mag	90 linear feet	50# Amosite 30# Chrysotile	20# Mortar	1
2088-0916-B07P 22411	2nd floor, north of Boiler No. 1	6" steam line straight pipe	Orange painted canvas over white fibrous mag	80 linear feet	40# Chrysotile 30# Amosite	29# Mortar 1# Cellulose	1
2088-0916-B08P 22412	2nd floor, NE corner	Condensate storage tank	Green painted canvas over white mud over glass	160 square feet	50# Chrysotile	30# Mineral wool 20# Mortar	2
FRICITION BUILDING							
2088-0916-B09F 22413	NE corner of roof, east of dust collector	Roof surface under loose stone	Black tar and loose black dust/ soot	120,000 square feet	50# Chrysotile	49# Mortar 1# Cellulose	1

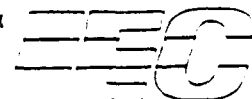
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SAMPLE ID/ IEC LAB NO.	SAMPLE LOCATION	PIPE/FIXTURE DESIGNATION	PHYSICAL DESCRIPTION	ESTIMATED QUANTITY	ASBESTOS	NON- ASBESTOS	COND. FACTOR
<u>ERUCTION BUILDING</u>							
2088-0916-B10F 22414	Center east side, west of Hopper 41	Roof surface	Black tar and grayish soot clumps, dust	Previously Quantified	70% Chrysotile	30% Mortar	1
2088-0916-B11F 22415	Center of roof	Roof surface	Fibrous appearing crust of graying soot	Previously Quantified	50% Chrysotile	49% Mortar 1% Cellulose	-
<u>BUILDING 12</u>							
2088-0916-B12 22395	NW corner, Bay A-1	Steam straight run	Orange painted canvas over fibrous glass	Not Applicable	N.D. (<1%)	100% Fibrous glass	1
2088-0916-B13 22396	NW corner, Bay A-1	Steam elbow	Orange painted canvas over fibrous glass	Not Applicable	N.D. (<1%)	60% Mortar 40% Mineral wool	1
2088-0916-B15 22398	NW corner, Bay A-1	Condensate elbow	Green painted canvas over fibrous glass	Not Applicable	N.D. (<1%)	90% Fibrous glass 10% Mortar	1
2088-0916-B16 22399	Mezzanine, NW corner, Bay A-1	City water straight run	Light green painted canvas over fibrous glass	Not Applicable	N.D. (<1%)	80% Mineral wool 10% Cellulose 10% Mortar	1
2088-0916-B17 22400	Mezzanine, NW corner, Bay A-1	City water elbow	Light green painted canvas over white mud	Not Applicable	N.D. (<1%)	80% Mortar 20% Fibrous glass	1
2088-0916-B18 22401	Mezzanine, NW corner, Bay A-1	Mixing tank lines	Light blue painted canvas over fiberglass	Not Applicable	N.D. (<1%)	70% Mineral wool 20% Mortar 10% Cellulose	1

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SAMPLE ID/ IEC LAB NO.	SAMPLE LOCATION	PIPE/FIXTURE DESIGNATION	PHYSICAL DESCRIPTION	ESTIMATED QUANTITY	ASBESTOS	NON- ASBESTOS	COND. FACTOR
BUILDING 12							
2088-0916-B19 22402	Mezzanine, NW corner, Bay A-1	Mixing tank elbows	Light blue painted canvas over white mud	Not Applicable	N.D. (<1%)	85% Mortar 15% Mineral wool	1
2088-0916-B20 22403	Tank No. 6	Mixing tank bottoms	Gray canvas over fiber board	Not Applicable	N.D. (<1%)	60% Mortar 40% Mineral wool	1
BUILDING 12							
2088-0916-B21 22404	Mezzanine, north wall	Pipe chase dust	Gray dust ball	Not Applicable	N.D. (<1%)	50% Mortar 40% Cellulose 10% Synthetic	1
FRICITION BUILDING							
2088-0916-B22F 22416	Curing Oven No. 7, outer wall	Heater insulation	Blue painted metal over fibrous glass	Not Applicable	N.D. (<1%)	90% Mineral wool 10% Mortar	1
2088-0916-B23F 22417	Curing Oven No. 7	Door gasket	Beige fibrous webbing	400 linear feet	60% Chrysotile	35% Synthetic 5% Mortar	1
2088-1014-B01 25158	Center of roof level	Roof	Rock and dark gray powder	38,000 square feet	1% Chrysotile	98% Mortar 1% Cellulose	1

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Ltd.

Industrial Environmental Consultants

ANALYTICAL REPORT

ANALYSIS OF BULK SAMPLES FOR ASBESTOS CONTENT

All samples are examined macroscopically prior to analysis and nonhomogeneous samples are homogenized to ensure consistent results.

Fibrous components of samples are identified through use of polarized light microscopy and dispersion staining techniques. Non-fibrous components are identified when possible using polarized light microscopy. A Leitz Laborlux 11 Pol polarizing microscope is used in the analysis.

Percentage estimates for each component are made based on macro- and microscopic observations of the sample.

Please see attached results.

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