

102nd STREET LANDFILL SITE

NIAGARA FALLS, NEW YORK

FINAL CLOSE OUT REPORT

OPERABLE UNITS 1 & 2

VOLUME 8

(Response to Comments by Additions to Revision 0, Dated August 13, 1999)

Prepared for:
Occidental Chemical Corporation
Olin Corporation

Prepared by:
IT Corporation
Greenville, SC

September 22, 2000
Revision 1 to August 13, 1999 Report

Prepared for:
Occidental Chemical
Corporation
Olin Corporation

Volume 8

102nd Street Landfill Site
Niagara Falls, New York
Final Close Out Report
Operable Units 1 & 2

September 22, 2000
Revision 1 to
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IT Corporation
Greenville, SC

934022



P.O. BOX 248, 1188 LOWER RIVER ROAD, NW, CHARLESTON, TN 37310-0248
(423) 838-4000 FAX: (423) 838-4183

September 22, 2000

Mr. Paul Olive, Proj. Mgr.
New York-Caribbean Response Superfund Branch II
Emergency and Remedial Response Division
U.S. Environmental Protection Agency
290 Broadway
New York, NY 10007-1866

RE: 102nd Street Landfill Site, Niagara Falls, NY
Final Closeout Report and Remedial Action Report, Response to EPA comments dated July 11, 2000
Landfill Residuals, Perimeter Soils, Shallow Groundwater,
Non-Aquous Phase Liquids (NAPL), and Embayment Sediments
Operable Units 1 & 2

Dear Mr. Olive:

Enclosed are three (3) copies of the signed and sealed Response to Comments (Volume II) for the Final Closeout and Remedial Action Reports for Operable Units (OU) 1 and 2 at the 102nd Street Landfill Site. This is an addition to the original Revision 0 "Report", dated August 13, 1999 per your request.

We believe with addition of this information the Report is comprehensive, thorough, complete, and meets the requirements of the USEPA. However, should you have any questions or concerns, please contact us at (423) 336-4387 or (839) 543-2159 respectively. We look forward to the end of this project. Your review and final approval of this document is appreciated. Thank you for your assistance.

Very truly yours,

Charles Taylor Jr.

Michael Bellotti
Site Team Leader, 102nd Street Site
Olin Corporation

Charles Taylor Jr.

George W. Luxbacher, P.E., Ph.D.
Director and Project Coordinator
Glen Springs Holdings, Inc.

cc: Gary Kline - NYDEC w/ 6 copies
John Burns - Olin Corp w/ 1 copy
James Thornton, P.E. - CRA Services w/ 1 copy
Ming Kuo - Foster Wheeler w/ 5 copies
Charles Taylor, P.E. w/ 2 copies
Michael Bellotti w/ 3 copies
George W. Luxbacher, P.E., Ph.D. w/ 3 copies
Don Tabbidy, 1 copy

RECEIVED

NOV 1 2000

NYDOSC Rec'd
REL: DUNN

**102nd STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK**

**FINAL CLOSE OUT REPORT
OPERABLE UNITS 1 AND 2**

VOLUME 8

(Response to Comments by Additions to Revision 0, Dated August 13, 1999)

IT Corporation

Prepared for
Occidental Chemical Corporation
Olin Corporation

September 22, 2000
Revision 1 to August 13, 1999 Report

September 22, 2000

*List of Drawings (Modified Additions for detailed "as-built" Electrical Drawings and
Modified P&IDs per Comment 3)*

Drawing Number	Title
594000-25J-01 Rev. 4	APL System Flow Diagram
594000-25J-02 Rev. 7	P&ID APL System
594000-25J-03 Rev. 1	Piping & Instrumentation Diagram NAPL System
594000-65U-01 Rev. 6	Electrical Plan
594000-65U-02 Rev. 5	One Line Diagram
594000-65U-03 Rev. 11	Elementary Wiring Diagram
594000-65U-04 Rev. 4	Details
594000-65U-05 Rev. 7	Cable Block Diagram/Schedule
23594010-SK-270-001 Rev. 5	Control Panel (SP-1)
23594010-SK-270-002 Rev. 6	Local Wet Well Panel
23594010-SK-270-100 Rev. 10	Control Panel (SP-1) Wiring
23594010-SK-270-101 Rev. 9	Local Wet Well Panel (CP-1) Wiring
23594010-SK-270-102 Rev. 9	Local Wet Well Panel (CP-2) Wiring
23594010-SK-270-103 Rev. 9	Local Wet Well Panel (CP-3) Wiring
23594010-SK-270-104 Rev. 9	Local Wet Well Panel (CP-4) Wiring
23594010-SK-270-105 Rev. 6	Manholes 8, 9, & 10 & Sample Pit Wiring Diagram
23594010-SK-270-106 Rev. 6	Leak Detection Pump Trip & Surge Protection System
23594010-SK-270-107 Rev. 5	Instrument Block Diagram
23594010-SK-270-108 Rev. 3	Control Panel (RTU) Wiring

September 22, 2000

from EXECUTIVE SUMMARY (Modified Additions per Comment 4)

The remedial activities implemented for OU-1 and OU-2 were completed in conformance with the requirements of the Remedial Design Documents (RDDs), the Record of Decision (ROD), ROD Addendum, ROD Amendment, and the Administrative Order (AO). Exceptions to be noted include: the bulkhead walkway was not installed, and APL is pumped to the Love Canal Treatment Facility in lieu of being hauled off-site.

The agencies required the original drawings to show a walkway along the river for use by the general public. Olin Corporation and Glenn Springs Holding, Inc. acting on behalf of Occidental Chemical Corporation (collectively referred to as the "Companies"), never agreed to the walkway and were reluctant to construct it. The Companies agreed to construct the walkway if the maintenance and liability responsibility for the walkway was assumed by a governmental entity such as the State of New York, Niagara County, or the City of Niagara Falls.

Only the City expressed any interest in the walkway but had reservations about safety and maintenance costs. As a result the City decided that at this time a walkway was not desired. The Companies gave the City the amount of money that it would have cost to build the walkway, which was then used to enhance Griffon Park.

The Companies have also granted an easement to the City for the area along the river so that in the future the City could build the walkway at the City's expense. The City would then assume all liability for the walkway area.

1.2 Background (Modified Additions per Comment 2)

OU-2:

- Removal and off-Site incineration of highly impacted embayment sediments, and removal of the remaining impacted sediments with subsequent placement on the Site.

No incineration was actually performed since deletion of the incineration requirement was accomplished by a later modification of the ROD.

4.1.1 Embayment Sediment Excavation and Placement (Modified Additions per Comment 1)

The total volume of embayment sediments that was removed from the embayment area and placed on the landfill was 25,436 cubic yards.

4.2.2 Triangular Area Excavation and Placement (Modified Additions per Comment 1)

The Triangular Area is a narrow triangular parcel of land with its long axis trending east-west and varied in width from approximately 10 feet (east end) to 125 feet (west end) and was approximately 1110 feet long. The triangular area is bordered on the south by Buffalo Avenue and on the north by the LaSalle Expressway. This parcel is located north of the landfill, across Buffalo Avenue. Excavation of soils took place in October and November of 1993, with the soils being placed in the Site's Fill Material Placement Cell. The excavated areas were backfilled with clay material and then covered by 6 inches of topsoil.

The total volume of non-hazardous soils and debris excavated from the Triangular Area and placed on the 102nd Street Landfill Site was approximately 5,000 cubic yards. The SJB Services Inc., Laboratory Test Report LTR-1 dated November 17, 1993 indicated that 5,000 cubic yards of clay fill material was placed in the Triangular Area.

4.2.3 Perimeter Soils Excavation and Placement (*Modified Additions per Comment 1*)

"Off-site" perimeter soils located outside of the perimeter slurry wall were excavated and transported onto the Site for consolidation and placement.

The total volume of perimeter soils that were removed and placed on the landfill was 6,497 cubic yards of non-hazardous materials and 1,602 cubic yards of soil contaminated with dioxin.

4.2.4 Filling and Grading (*Modified Additions per Comment 1*)

Materials generated by construction activities were placed on-site in bermed areas and used as fill to meet the contours of the design grades. The final "as-built" contours are shown on Drawing 594000-1OU-01. Site fill was generated from the following sources with "as-built" volumes provided as follows.

Embayment Sediments - Silty sands	25,436 cy
Perimeter Soils - Mixed soils	8,099 cy
Slurry Wall Spoils- Mixed soils	11,347 cy
APL Collection Trench Spoils- Mixed soils	1,891 cy
Storm Sewer Spoils- Mixed soils	4,298 cy
Little Niagara River Dredge Spoils- Silty sands	1,993 cy
Drill Spoils- Mixed soils	10 cy
Cofferdam Material- Frontier Clay	3,550 cy
Cribwall Trench Spoils- Clayey soils	200 cy
Olin Building Demolition Debris from Buffalo Ave. Facility	3,100 cy
Riprap from river bank- Large armor stone	2,333 cy
Used Activated Carbon- Water Treatment System	20 cy
Brine Solids from Olin's Niachlor Plant	1,600 cy
Quick Lime (used for soil stabilization)	1,750 cy
Gypsum (used for soil stabilization)	3,800 cy
Personal Protective Equipment	10 cy
<i>Total Construction Fill</i>	<i>69,437 cy</i>

September 22, 2000

The materials listed above were generated by construction activities or brought onto the Site to be used as fill to meet the landfill-grading plan. Fill material overruns caused by over-excavation of materials and more than anticipated sediment stabilization required a new Grading Plan (Revision #7) to be developed. The landfill was re-contoured with minimum slopes of 3%. All fills existing on May 7, 1997 were re-graded to meet Revision 7 contours. Some previously placed subbase material was incorporated into the Site fills.

Erosion control and surface water control was always maintained to prevent erosion from occurring and the escape of materials from the Site. The fill materials were graded and continuously compacted by vibratory compaction equipment. The fill materials were moved using typical earth-moving equipment such as bulldozers, backhoes, front-end loaders, and dump trucks.

Non-hazardous wastes from approximately 30 off-Site locations were brought to the Site and placed on the landfill as fill before construction. The data showing the individual quantities of the non-hazardous wastes brought from each location along with the name of each such location is listed herein as follows on Table 1.

TABLE 1
PRE-CONSTRUCTION OFF SITE FILL MATERIALS

Source	Cubic Yards	Material
93 rd Street Processing Facility	5,000	Granular asphalt
93 rd Street School	7,000	Excavated material
Lockport Waterline	28,000	Excavated material
198 DiMatteo Drive	600	Soil fill
Hennepin Avenue	1,500	Soil fill
104 th Street, 1331/1335	1,000	Soil fill
Love Canal Emergency Declaration Area (EDA 4)	1,000	Soils

Final Closeout Report

Volume 8, Response to Comments Dated July 11, 2000

Additions to Original Revision 0 dated August 13, 1999

102nd Street Landfill Site Operable Units 1 & 2

September 22, 2000

Buffalo Avenue Plant Barrier Wall	2,750	Soil fill
10114 Buffalo Avenue	300	Soil
J Area of Niagara Plant	10,000	Brick, concrete, and rubble
Niagara Plant Liquid Incinerator unused fire brick	100	Fire brick
Energy from Waste Facility (EFW) Soil	530	Soil
EFW Fire Protection Pump House Excavation	1,000	Soil
EFW	14,000	Tipping floor ramp
EFW	500	Concrete debris form tipping floor ramp
EFW	4,000	Soil from excavator form stack foundation
EFW	12,000	Soil, rock and asphalt
EFW	4,500	Soil form excavation of cooling water line
EFW	20,000	Soil, rock, asphalt, concrete, and brick
EFW	1,000	Concrete from old foundation
EFW	1,500	Soil and crusher run
Durez Niagara Facility	900	Soil
Lower Gill Creek Remediation	5,000	Soil
Nash/Walck Road work	1,100	Clay soil
Fitch Farm	1,200	Clay soil
Creekside Stone	2,400	Stone
9802 Buffalo Avenue	50	Demolition Debris
Buffalo Avenue Plant	62,500	Gypsum
Niagara Durez	100	Soil and cement debris
Niagara Durez	250	Soil, concrete, and asphalt

Final Closeout Report
Volume 8, Response to Comments Dated July 11, 2000
Additions to Original Revision 0 dated August 13, 1999
102nd Street Landfill Site Operable Units 1 & 2

September 22, 2000

Buffalo Avenue Plant, L Area	1,053	Concrete and brick debris
Little Niagara River	3,000	River sediments
Love Canal	86,000	Clay, plastic liner, and drain line debris
Niagara Plant 003 Outfall	120	Soil
Niagara Plant Buildings V-18, 50, 65, and 68	1,720	Concrete and red brick
Total Off-Site Fill before Construction	281,673	

September 22, 2000

8.0 CERTIFICATION THAT REMEDY MEETS PERFORMANCE STANDARDS

NEW YORK STATE PROFESSIONAL ENGINEER'S CERTIFICATION FOR:

102nd STREET LANDFILL SITE

FINAL CLOSE OUT REPORT

LANDFILL RESIDUALS, PERIMETER SOILS, SHALLOW GROUNDWATER, NON-AQUEOUS
PHASE LIQUIDS (NAPL), AND EMBAYMENT SEDIMENTS

OPERABLE UNITS 1 & 2

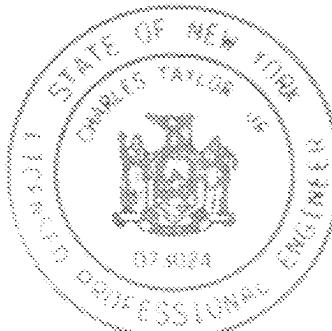
NIAGARA FALLS, NEW YORK

September 22, 2000 (Response to Comments by Additions to Revision 6, Dated August 13, 1999)

Prepared by IT Corporation

This report documents the remedial action activities completed at 102nd Street Landfill Site. The action included remediation for the landfill residuals, perimeter soils, shallow groundwater, and non-aqueous phase liquids and the sediments in the Niagara River within 300 feet of the shore. I certify that the remedial action implemented for these activities was completed in substantial conformance with the requirements of the Remedial Design Documents, the ROD, ROD Amendment, and the Administrative Order. The data presented is considered to be technically correct to the best of my knowledge.

Charles Taylor, Jr. 9-22-2000
Charles Taylor, State of New York Professional Engineer (073024)



JUL 11 2000

David L. Cummings
Mgr., Environmental Remediation
Olin Corporation
P.O. Box 248
Lower River Road
Charleston, TN 37310

George W. Luxbacher, P.E., PhD
Director and Project Coordinator
Glenn Springs Holdings, Inc.
2480 Fortune Drive, Suite 300
Lexington, KY 40509

Re: 102nd Street Superfund Site
Niagara Falls, New York
Final Close Out Report, Operable Units 1 and 2

Gentlemen:

This letter pertains to your submittal dated August 13, 1999, wherein the Olin Corporation and Glenn Springs Holdings, Inc., acting on behalf of the Occidental Chemical Corporation, (collectively referred to as the "Companies"), forwarded to the U.S. Environmental Protection Agency (the "EPA") for the EPA's approval, the Final Close Out Report (the "Report") for Operable Units 1 and 2. The Report consists of seven volumes.

Please be advised that the EPA has reviewed the Report. The EPA's comments to the Report are as follows:

1.- The following data shall be added to the Report, Volume I.:

Section 4.1.1 - Embayment Sediments Excavation and Placement

A statement shall be added to this section specifying the total volume of the embayment sediments which were removed from the embayment area and placed on the landfill.

Sections 4.2.2 and 4.2.3 - Triangular Area and Perimeter Soil Excavations

A statement shall be added to these sections specifying the total volume of non-hazardous soil and debris excavated from various off-Site areas,

transported to, and placed on the landfill.

Section 4.2.4 - Filling and Grading.

A statement shall be added to this section to the effect that more than 300,000 cubic yards of non-hazardous wastes from approximately 30 off-Site locations were brought to the Site and placed on the landfill as fill. The Report shall indicate the total volume of this fill material. In addition, the data showing the individual quantities of the non-hazardous wastes brought from each location along with the name of each such location shall be listed in the appendix.

- 2.- The following revisions shall be made in the text of the Report, Volume 1.:

Section 1.2 - Background, Pages 2 and 3

The text for OU-2 notes that a ROD requirement existed for the incineration of highly impacted embayment sediments. Since no incineration was actually done, an explanation to that effect shall be added. Clarification may be supplied by adding a sentence which indicates that the deletion of the incineration requirement was accomplished by a later amendment to the ROD.

- 3.- As-Built Drawings:

Drawings 594000-25J-02 (P&ID APL) and 23594010-SK-270-107 (INST. BLOCK)

These drawings are acceptable only as schematic drawings. Detailed as-built electrical drawings shall also be provided.

- 4.- Walkway:

A statement on the proposed Walkway shall be included in the Report. Such statement shall include the history of the Walkway, a description with appropriate schematic drawings, and the current status of the Walkway as well as details of the actions taken to date by the Companies and the City of Niagara Falls with respect to the Walkway.

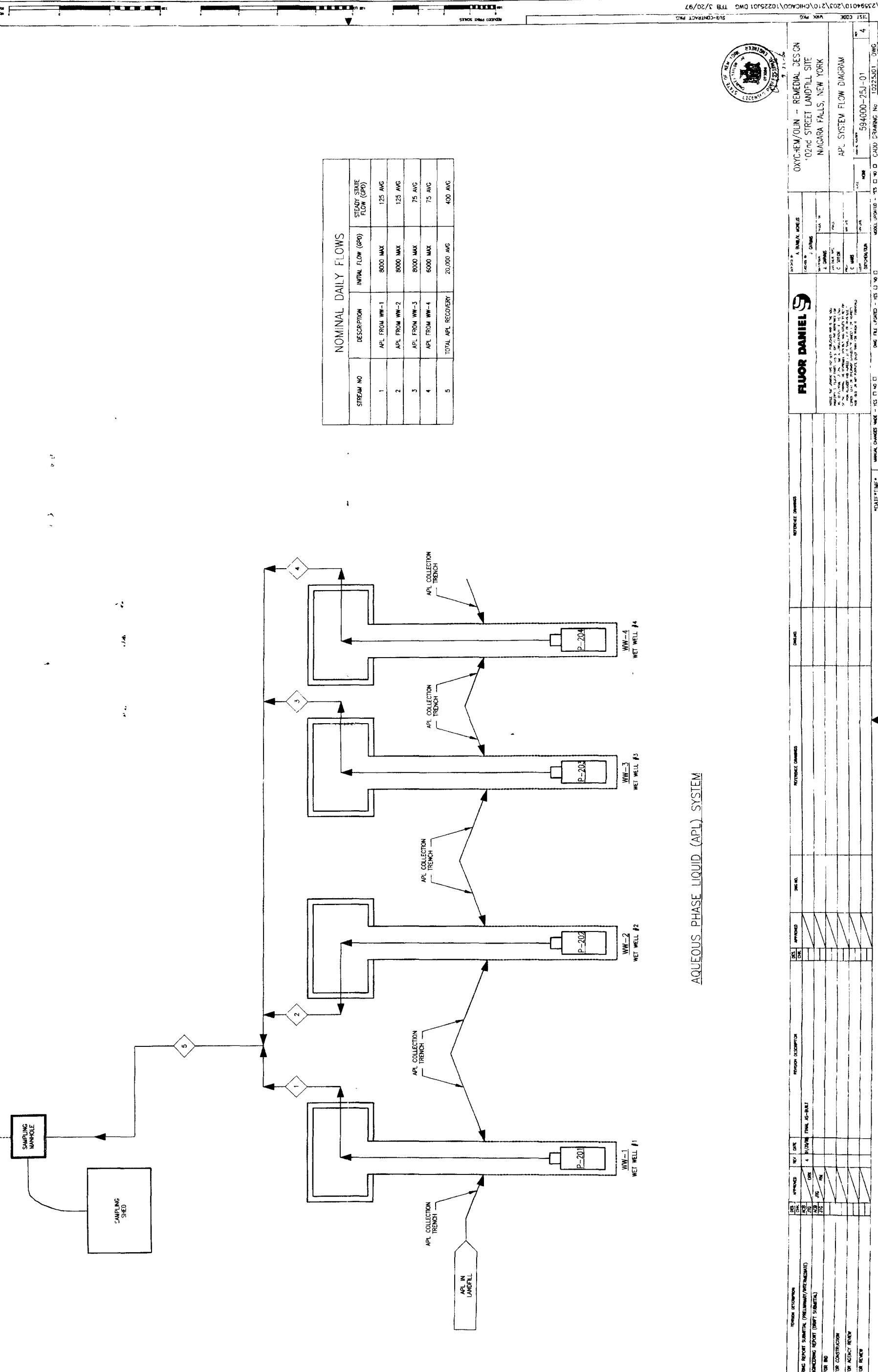
The Companies shall incorporate their responses to the above comments into a separate volume to the Report. Such separate addendum shall be designated as "Volume 8." This addendum shall be re-submitted to the EPA for its approval.

If either of you has any immediate questions or comments on this matter, please contact Paul J. Olivo of my staff at 212-637-4280.

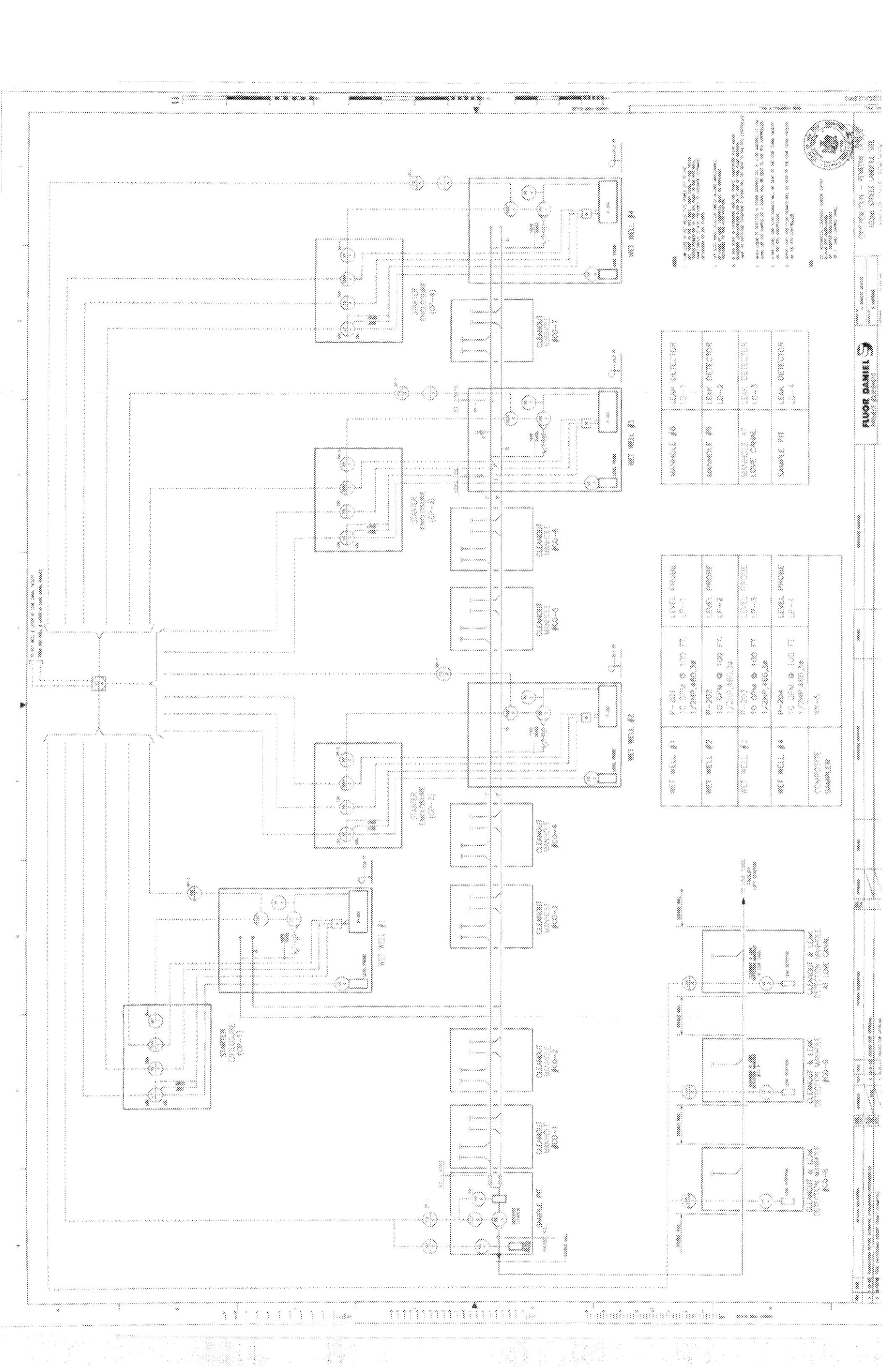
Sincerely yours,

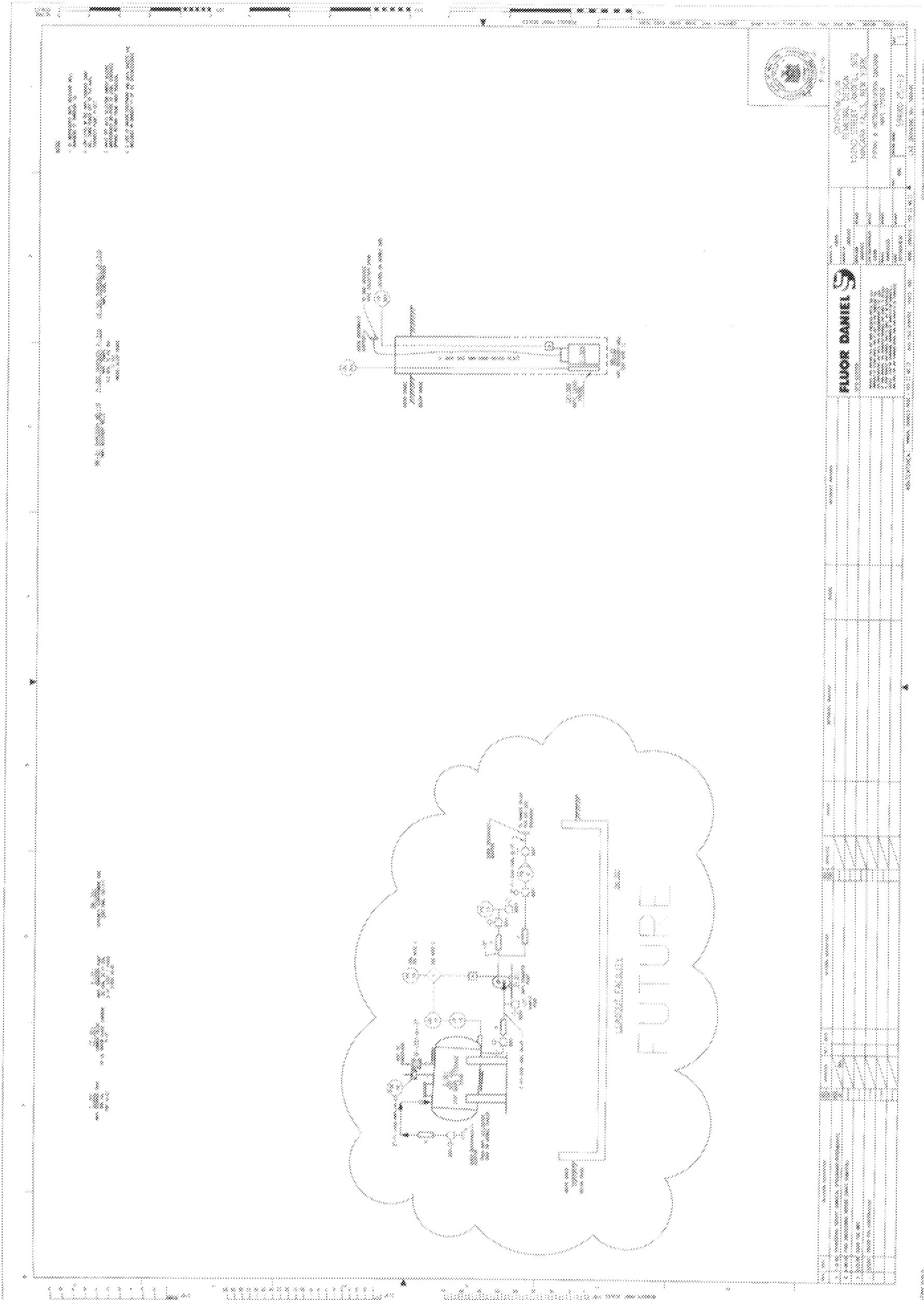
Kevin Lynch, Chief
Western New York Remediation Section

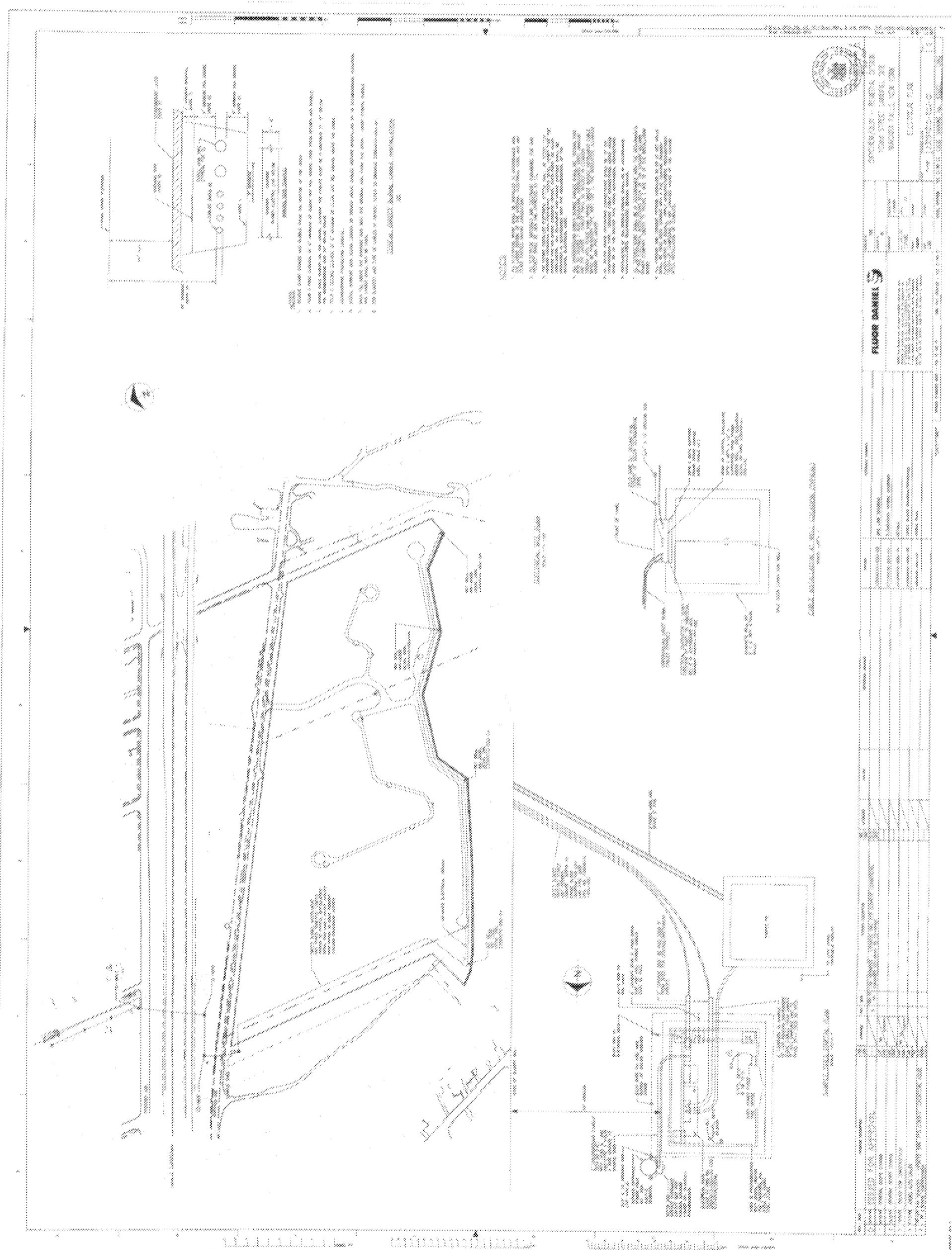
cc: G. Kline - NYSDEC
D. King - NYSDEC/Region 9
A. Barkat - NYSDEC/Region 9
T. Robinson - NYSDEC/Region 9
G.A. Carlson - NYSDOH
N. Spiegel - NYSDOL
P. Olivo - USEPA
G. Shanahan - USEPA
M. Basile - USEPA
J. Thornton - CRA Services

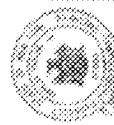


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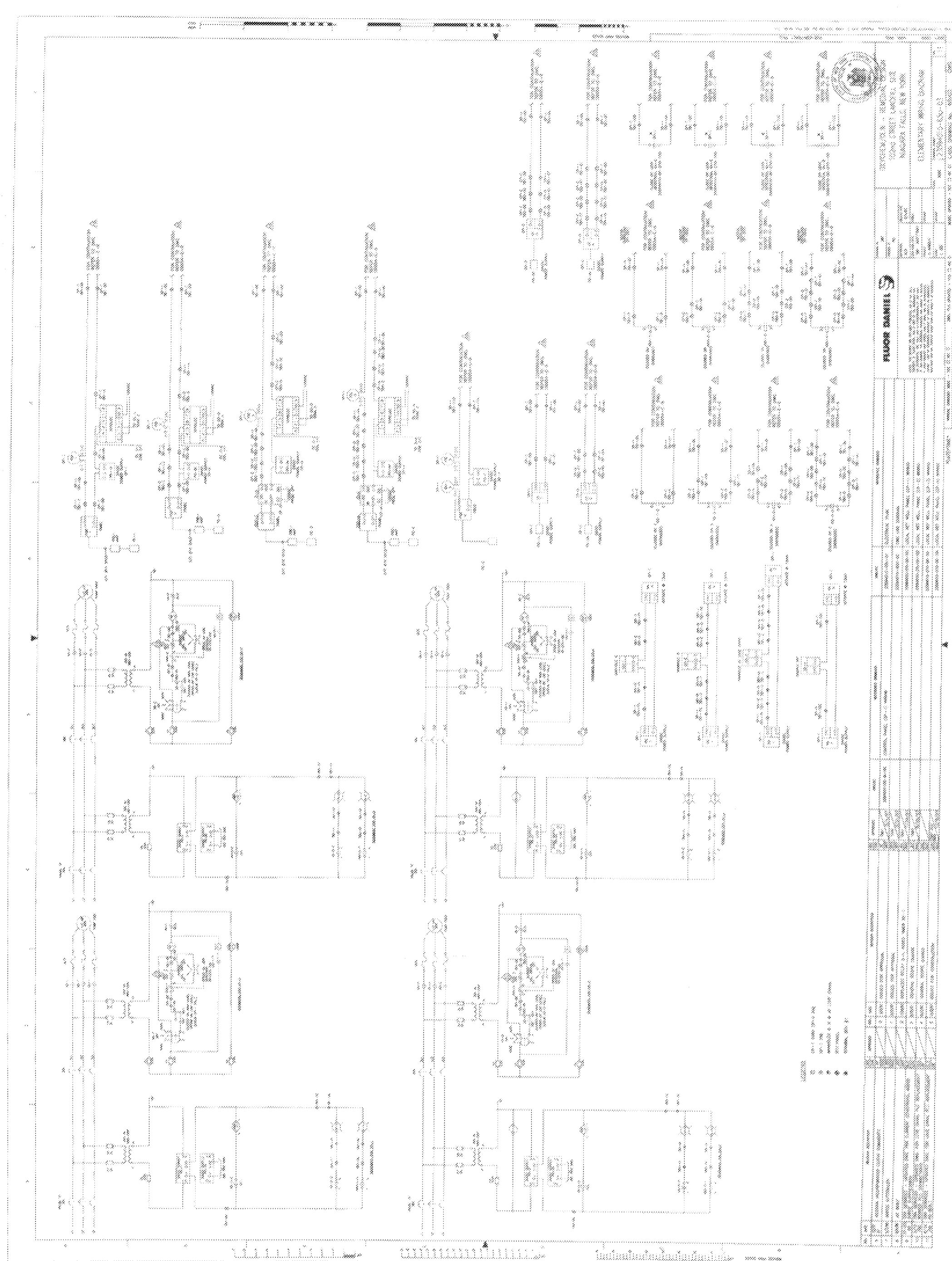
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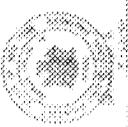
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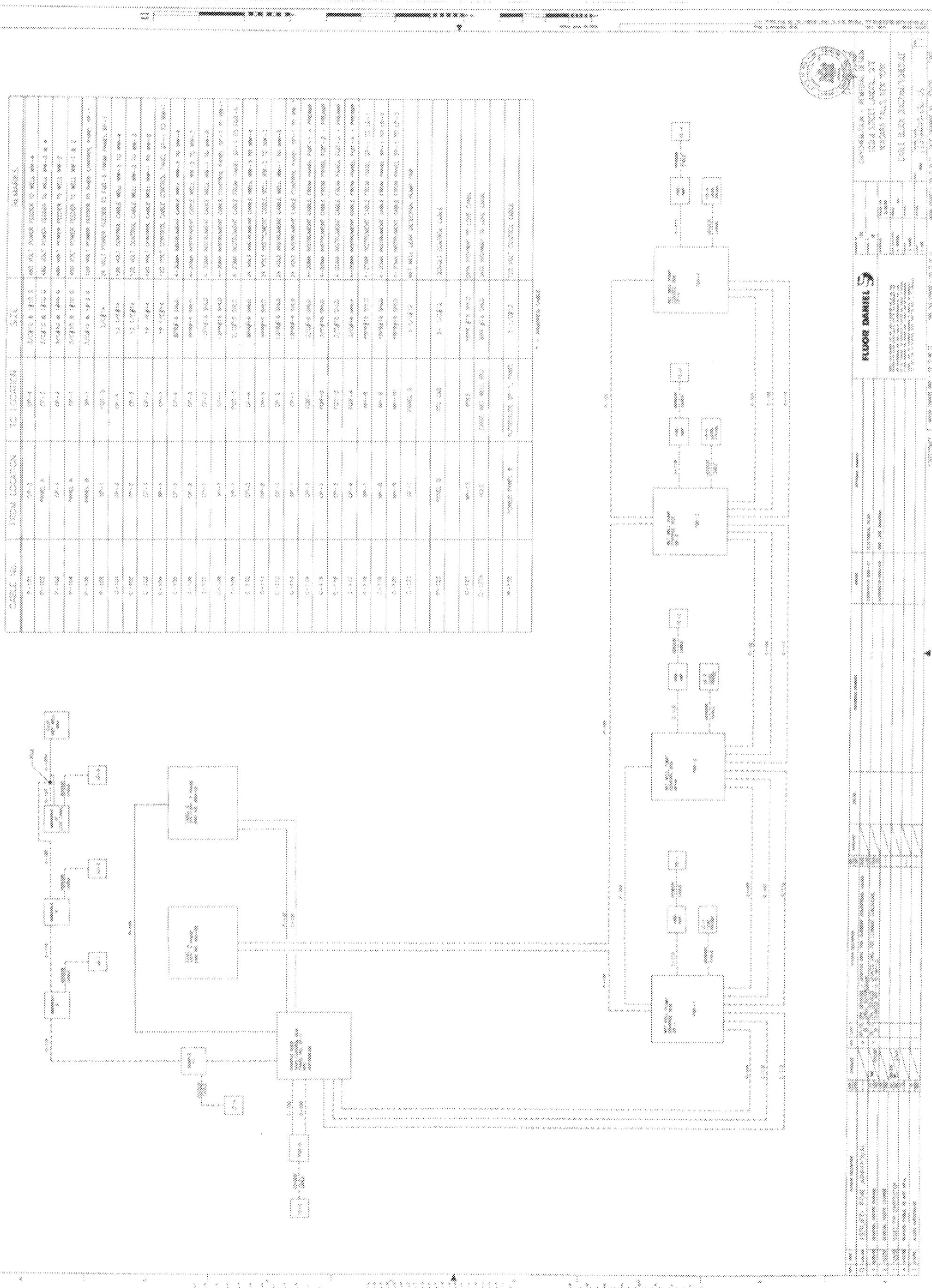
Year	Revenue	Profit	Margin
2018	\$100M	\$10M	10%
2019	\$120M	\$12M	10%
2020	\$140M	\$14M	10%
2021	\$160M	\$16M	10%
2022	\$180M	\$18M	10%
2023	\$200M	\$20M	10%
2024	\$220M	\$22M	10%
2025	\$240M	\$24M	10%
2026	\$260M	\$26M	10%
2027	\$280M	\$28M	10%
2028	\$300M	\$30M	10%
2029	\$320M	\$32M	10%
2030	\$340M	\$34M	10%
2031	\$360M	\$36M	10%
2032	\$380M	\$38M	10%
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2034	\$420M	\$42M	10%
2035	\$440M	\$44M	10%
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2043	\$600M	\$60M	10%
2044	\$620M	\$62M	10%
2045	\$640M	\$64M	10%
2046	\$660M	\$66M	10%
2047	\$680M	\$68M	10%
2048	\$700M	\$70M	10%
2049	\$720M	\$72M	10%
2050	\$740M	\$74M	10%
2051	\$760M	\$76M	10%
2052	\$780M	\$78M	10%
2053	\$800M	\$80M	10%
2054	\$820M	\$82M	10%
2055	\$840M	\$84M	10%
2056	\$860M	\$86M	10%
2057	\$880M	\$88M	10%
2058	\$900M	\$90M	10%
2059	\$920M	\$92M	10%
2060	\$940M	\$94M	10%
2061	\$960M	\$96M	10%
2062	\$980M	\$98M	10%
2063	\$1000M	\$100M	10%
2064	\$1020M	\$102M	10%
2065	\$1040M	\$104M	10%
2066	\$1060M	\$106M	10%
2067	\$1080M	\$108M	10%
2068	\$1100M	\$110M	10%
2069	\$1120M	\$112M	10%
2070	\$1140M	\$114M	10%
2071	\$1160M	\$116M	10%
2072	\$1180M	\$118M	10%
2073	\$1200M	\$120M	10%
2074	\$1220M	\$122M	10%
2075	\$1240M	\$124M	10%
2076	\$1260M	\$126M	10%
2077	\$1280M	\$128M	10%
2078	\$1300M	\$130M	10%
2079	\$1320M	\$132M	10%
2080	\$1340M	\$134M	10%
2081	\$1360M	\$136M	10%
2082	\$1380M	\$138M	10%
2083	\$1400M	\$140M	10%
2084	\$1420M	\$142M	10%
2085	\$1440M	\$144M	10%
2086	\$1460M	\$146M	10%
2087	\$1480M	\$148M	10%
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2089	\$1520M	\$152M	10%
2090	\$1540M	\$154M	10%
2091	\$1560M	\$156M	10%
2092	\$1580M	\$158M	10%
2093	\$1600M	\$160M	10%
2094	\$1620M	\$162M	10%
2095	\$1640M	\$164M	10%
2096	\$1660M	\$166M	10%
2097	\$1680M	\$168M	10%
2098	\$1700M	\$170M	10%
2099	\$1720M	\$172M	10%
2100	\$1740M	\$174M	10%
2101	\$1760M	\$176M	10%
2102	\$1780M	\$178M	10%
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2105	\$1840M	\$184M	10%
2106	\$1860M	\$186M	10%
2107	\$1880M	\$188M	10%
2108	\$1900M	\$190M	10%
2109	\$1920M	\$192M	10%
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2111	\$1960M	\$196M	10%
2112	\$1980M	\$198M	10%
2113	\$2000M	\$200M	10%
2114	\$2020M	\$202M	10%
2115	\$2040M	\$204M	10%
2116	\$2060M	\$206M	10%
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2127	\$2280M	\$228M	10%
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2158	\$2900M	\$290M	10%
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2160	\$2940M	\$294M	10%
2161	\$2960M	\$296M	10%
2162	\$2980M	\$298M	10%
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2166	\$3060M	\$306M	10%
2167	\$3080M	\$308M	10%
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2178	\$3300M	\$330M	10%
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2204	\$3820M	\$382M	10%
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2207	\$3880M	\$388M	10%
2208	\$3900M	\$390M	10%
2209	\$3920M	\$392M	10%
2210	\$3940M	\$394M	10%
2211	\$3960M	\$396M	10%
2212	\$3980M	\$398M	10%
2213	\$4000M	\$400M	10%
2214	\$4020M	\$402M	10%
2215	\$4040M	\$404M	10%
2216	\$4060M	\$406M	10%
2217	\$4080M	\$408M	10%
2218	\$4100M	\$410M	10%
2219	\$4120M	\$412M	10%
2220	\$4140M	\$414M	10%
2221	\$4160M	\$416M	10%
2222	\$4180M	\$418M	10%
2223	\$4200M	\$420M	10%
2224	\$4220M	\$422M	10%
2225	\$4240M	\$424M	10%
2226	\$4260M	\$426M	10%
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2228	\$4300M	\$430M	10%
2229	\$4320M	\$432M	10%
2230	\$4340M	\$434M	10%
2231	\$4360M	\$436M	10%
2232	\$4380M	\$438M	10%
2233	\$4400M	\$440M	10%
2234	\$4420M	\$442M	10%
2235	\$4440M	\$444M	10%
2236	\$4460M	\$446M	10%
2237	\$4480M	\$448M	10%
2238	\$4500M	\$450M	10%
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2240	\$4540M	\$454M	10%
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2242	\$4580M	\$458M	10%
2243	\$4600M	\$460M	10%
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2245	\$4640M	\$464M	10%
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2251	\$4760M	\$476M	10%
2252	\$4780M	\$478M	10%
2253	\$4800M	\$480M	10%
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2255	\$4840M	\$484M	10%
2256	\$4860M	\$486M	10%
2257	\$4880M	\$488M	10%
2258	\$4900M	\$490M	10%
2259	\$4920M	\$492M	10%
2260	\$4940M	\$494M	10%
2261	\$4960M	\$496M	10%
2262	\$4980M	\$498M	10%
2263	\$5000M	\$500M	10%

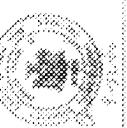
Year	Number of new cases	Number of new deaths	Number of new recoveries
2010	1,000	100	900
2011	2,000	200	1,800
2012	3,000	300	2,700
2013	4,000	400	3,600
2014	5,000	500	4,500
2015	6,000	600	5,400
2016	7,000	700	6,300
2017	8,000	800	7,200
2018	9,000	900	8,100
2019	10,000	1,000	9,000

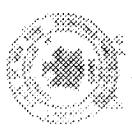
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ECONOMIC GROWTH




| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 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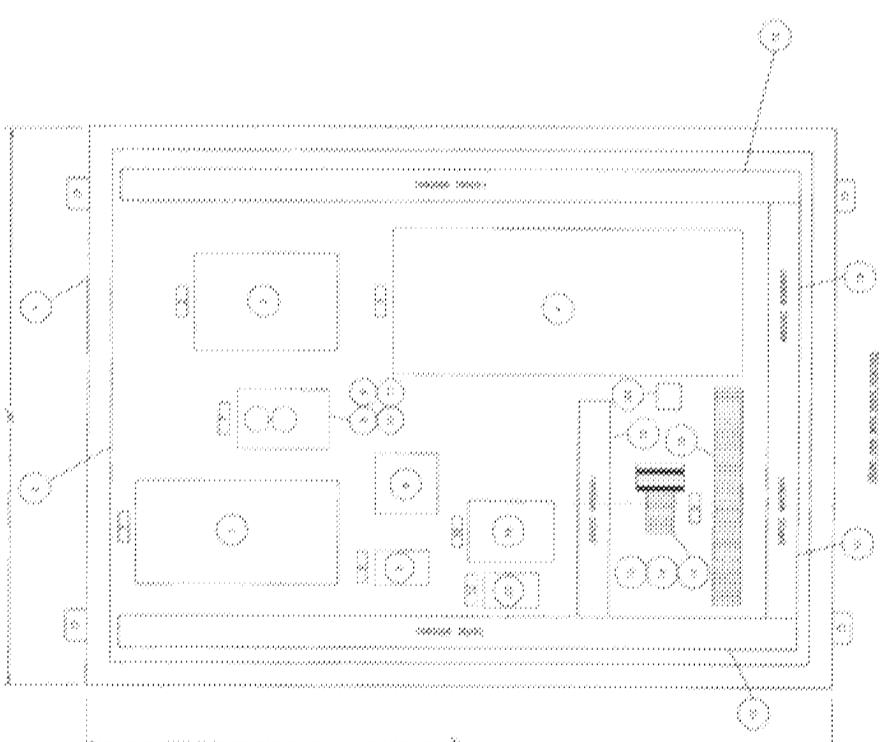


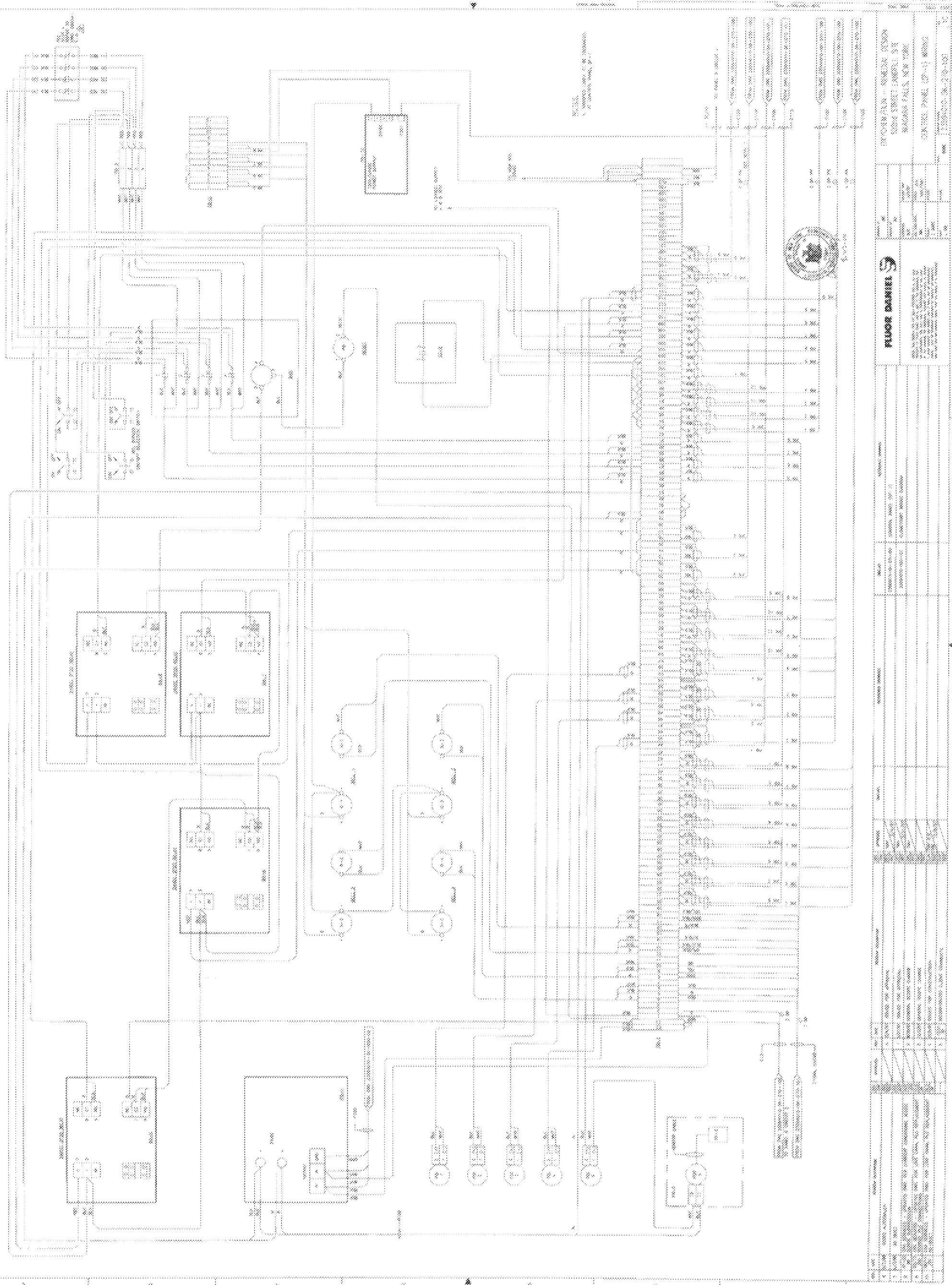
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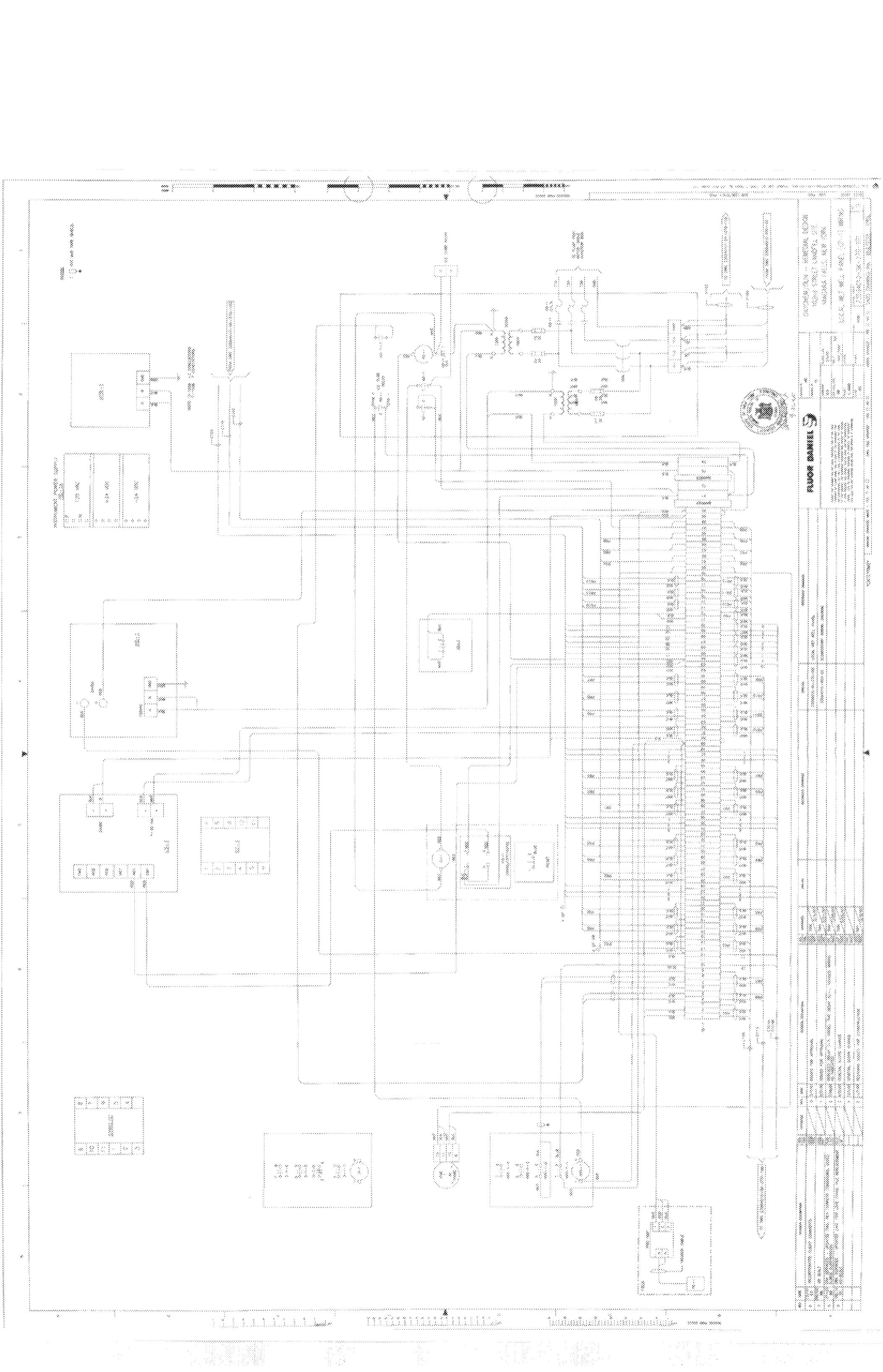
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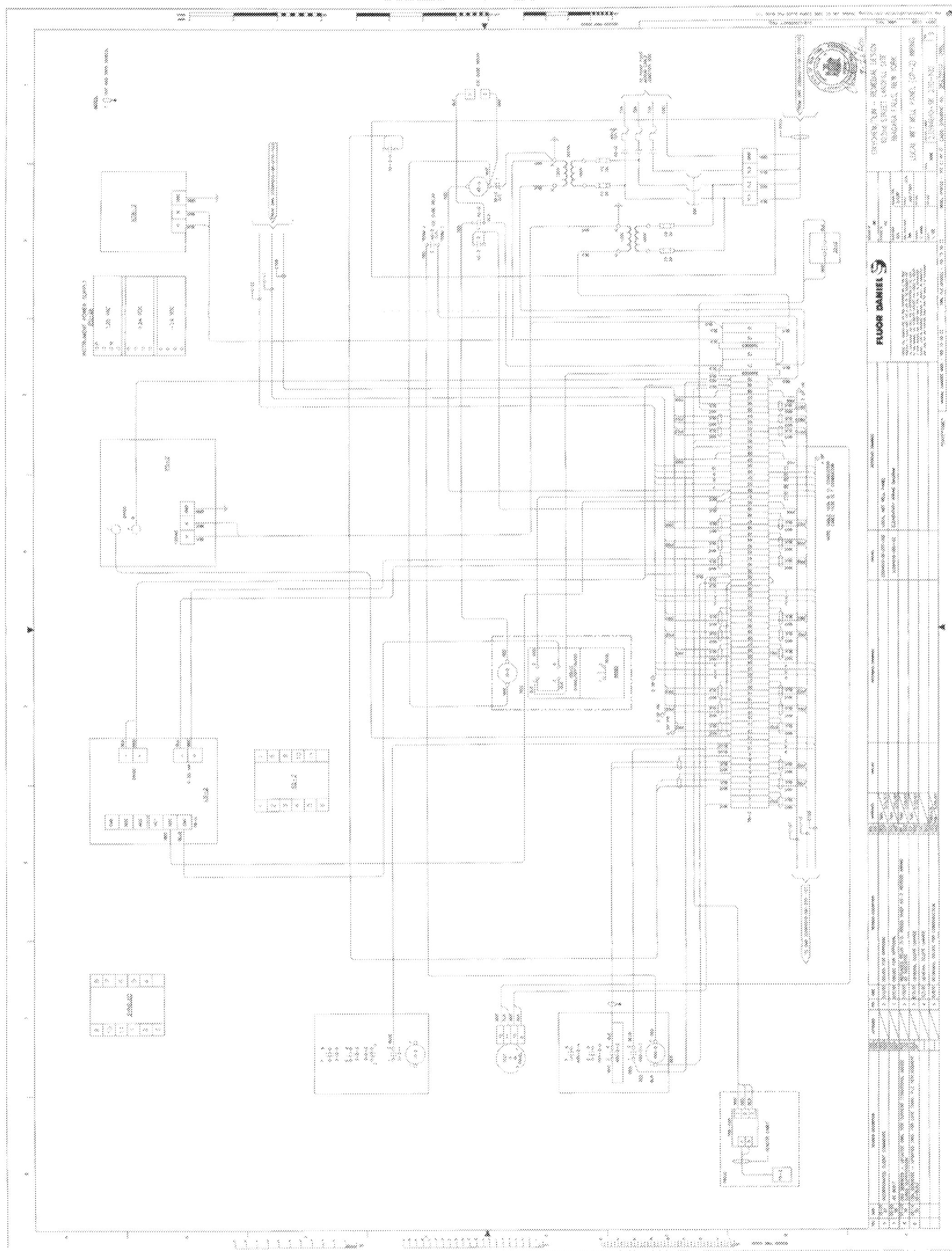
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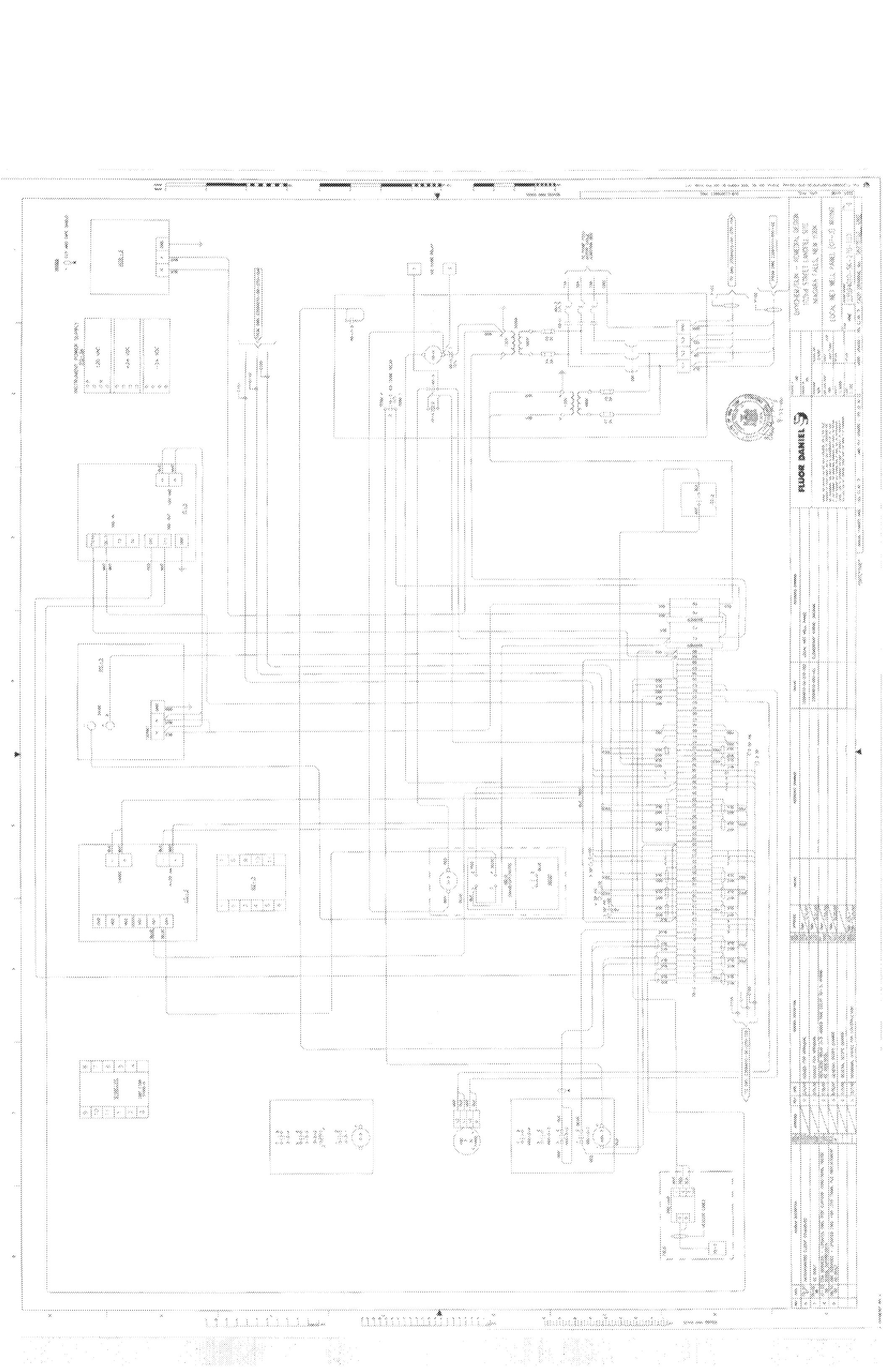
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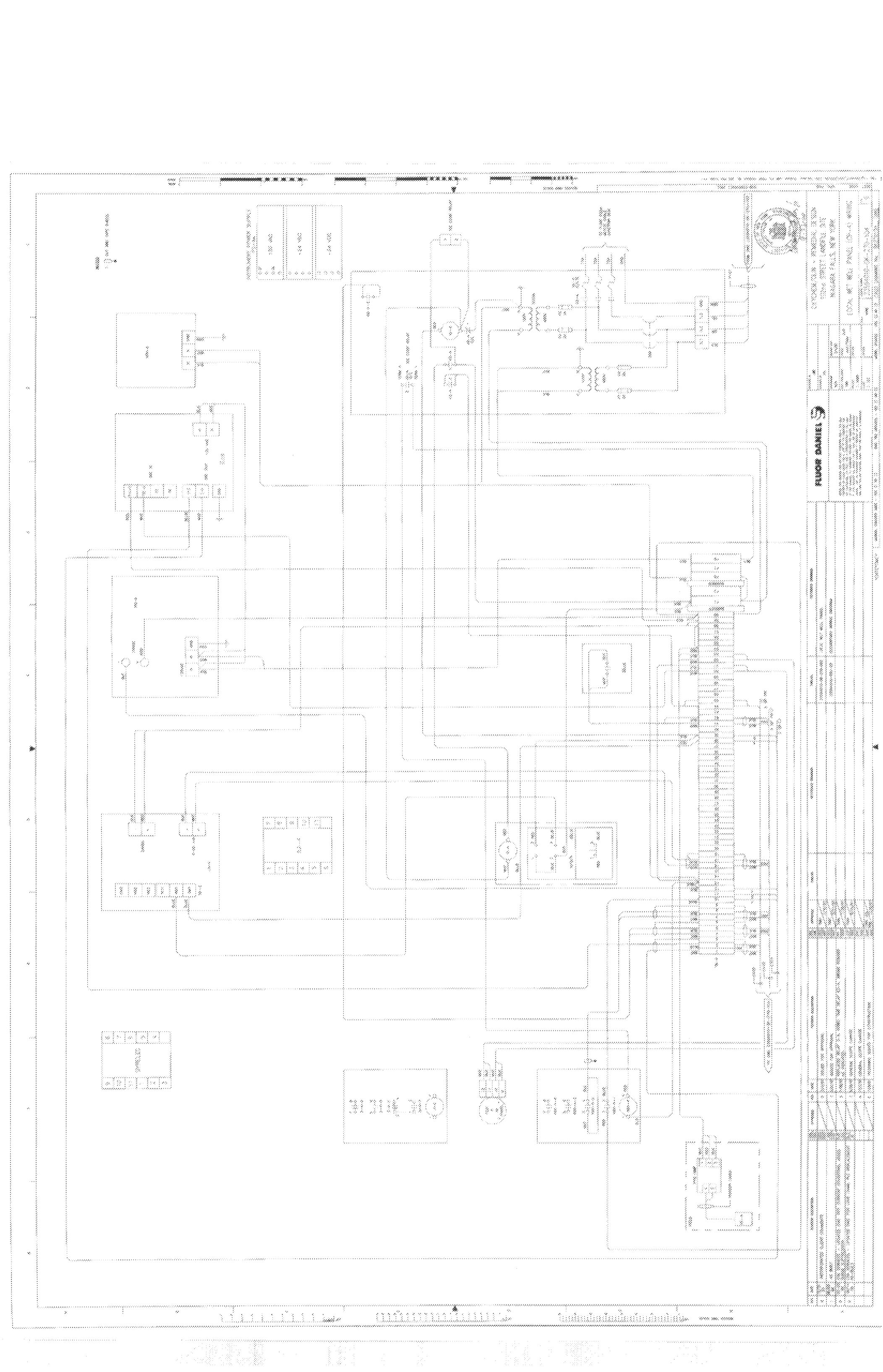


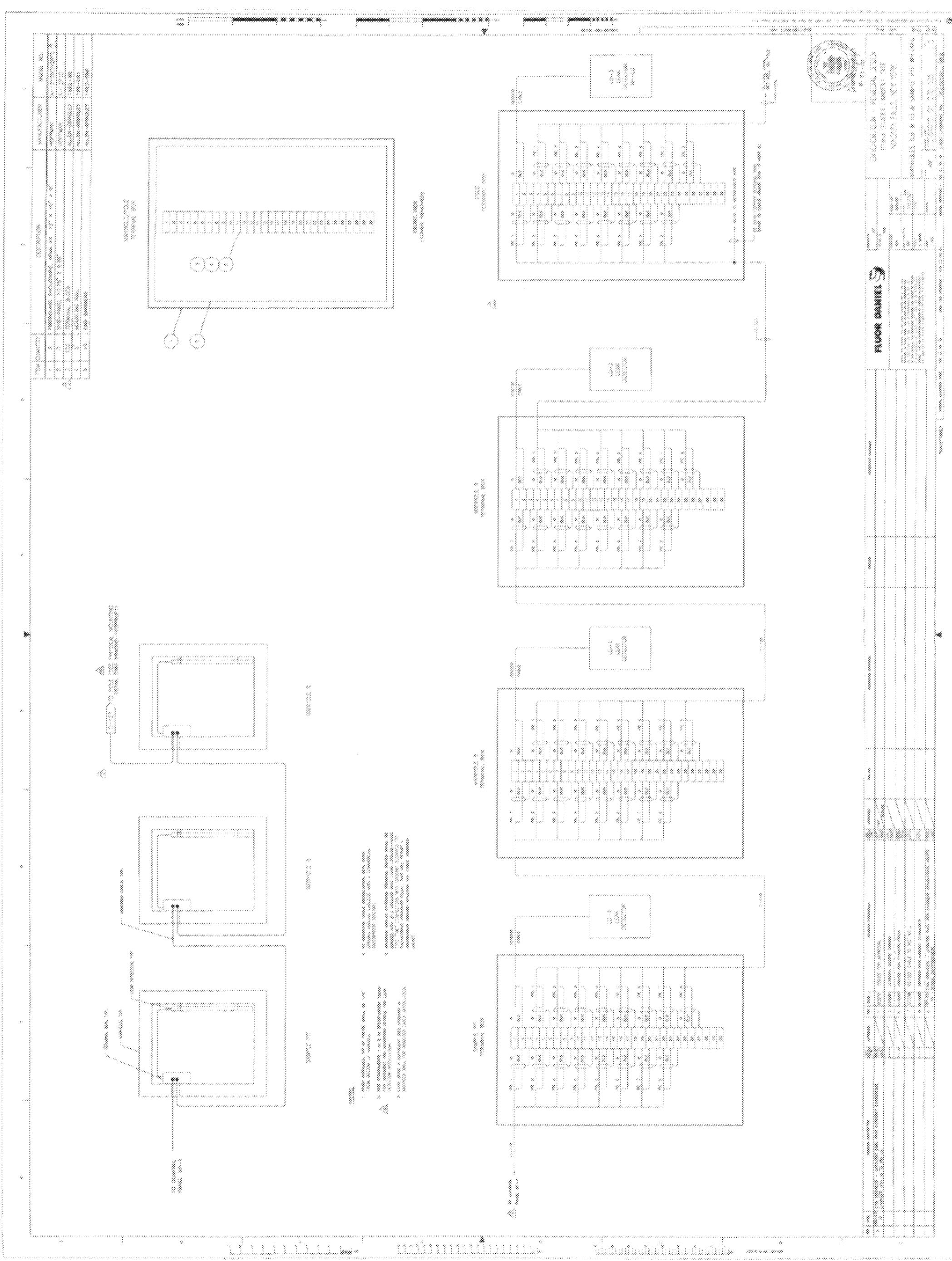


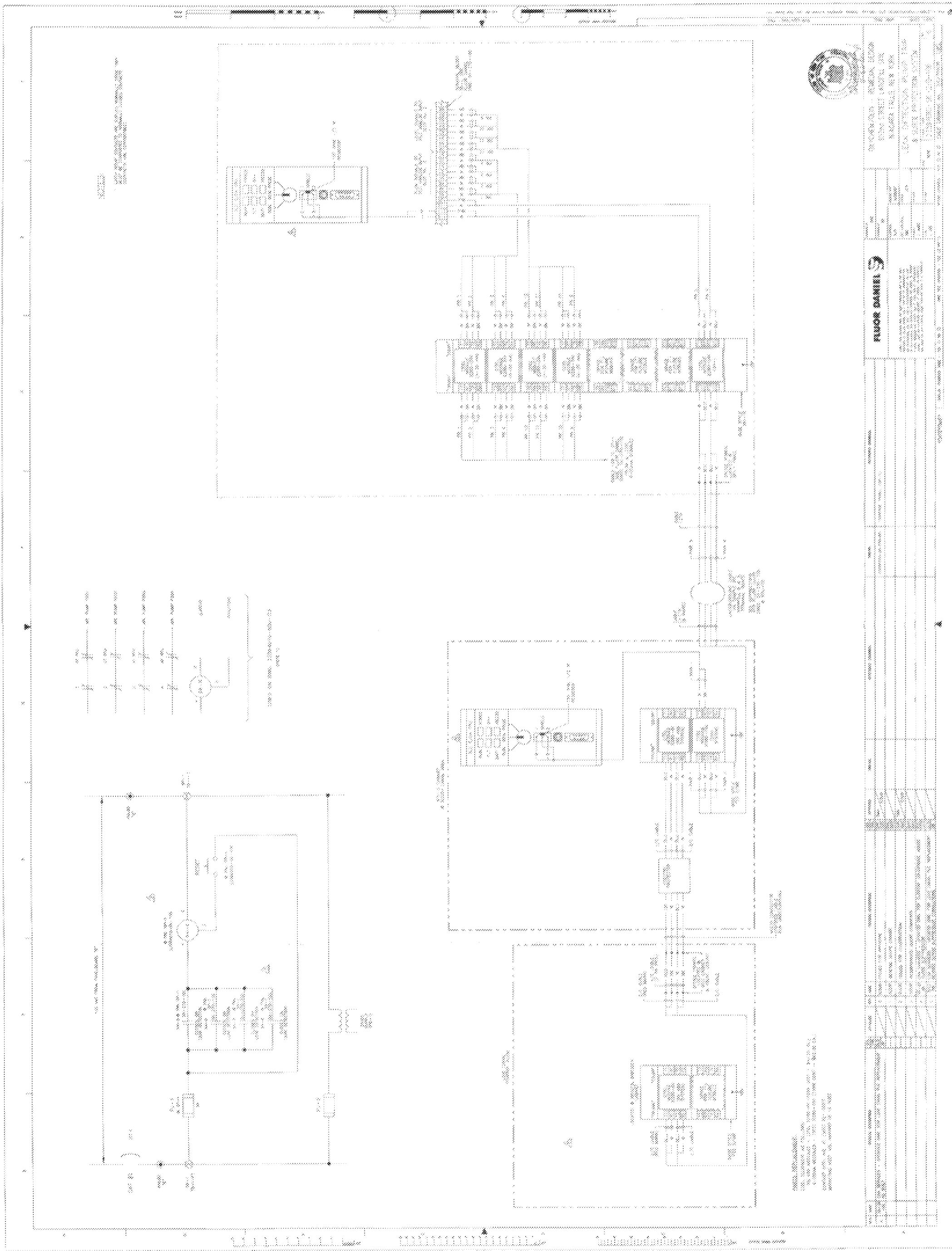


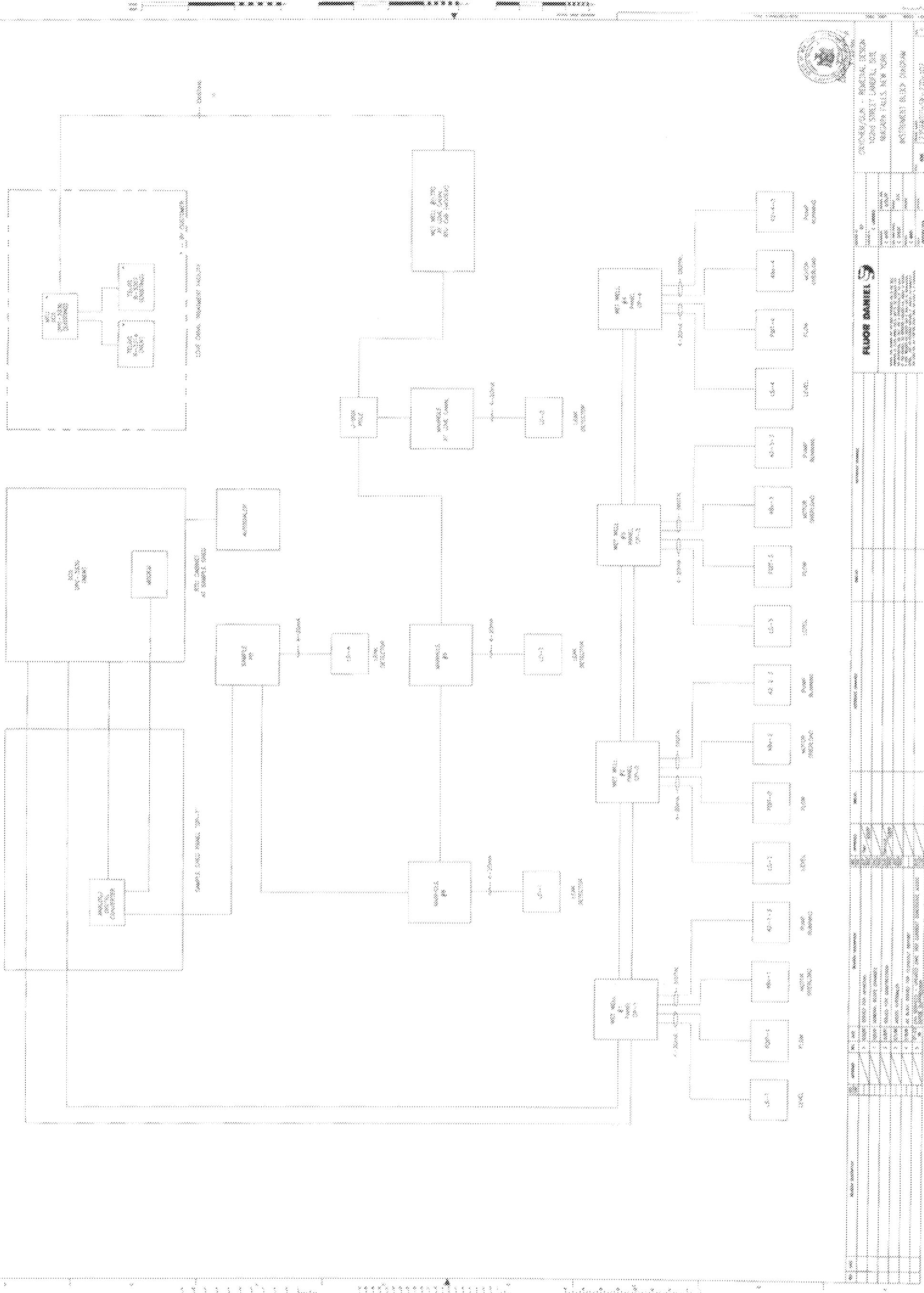


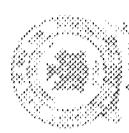












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