

2259

**APPLICATION FOR PERMIT TO INSTALL
MANHOLE #34 SPILL CONTROL**

09/01/91

DOE-FSO/OEPA

23

ENCLOSURE

APPLICATION FOR PERMIT TO INSTALL
MANHOLE #34 SPILL CONTROL

2259

September, 1991

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT COMPANY OF OHIO
P.O. Box 398704
Cincinnati, Ohio 45239-8704

ENVIRONMENTAL ENGINEERING
GENERAL PLANT PROJECT ENGINEERING

Prepared for the
U. S. DEPARTMENT OF ENERGY
FERNALD SITE OFFICE

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#34 SPILL CONTROL PROJECT

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OHIO ENVIRONMENTAL PROTECTION AGENCY
 Division of Water Pollution Control
 Application for Permit to Install or Plan Approval

2259

- Treatment Works (Includes Septic Systems)
 - New Source (1)
 - Modification (1) and (2)
- Pretreatment Only
- Sludge or Waste Management Plan Approval
- Other (Sewers, Pump Stations, Fly Ash or Bottom Ash Disposal Site, etc.) (2)

For Office Use Only	
Application No.	_____
Date Received	_____
PAID	
Amount	_____ Date _____
Check #	_____ Date _____

1. a) Owner U.S. Department of Energy - Oak Ridge Operations
 - b) Applicant (per OAC 3745-1-04, See General Instructions).
 Responsible Official Gerald W. Westerbeck Title Site Manager
 Firm Fernald Site Office Telephone (513) 738-63
 Mailing Address P.O. Box 398705 Cincinnati, Ohio 45239-8705
 - c) Name of Project/Facility Fernald Environmental Management Project; Manhole 34 Spi
 Location (List street/road address, township and county, or latitude and longitude if possible. Otherwise provide legal description) Control
7400 Willey Road Fernald, Ohio 45030
 - d) Receiving Stream or Treatment Works to Receive Wastewaters Great Miami River
 - e) Person to Contact (Person most familiar with the technical aspects of the project)
 Name Tom Owen Title Sr. Engineer
 Organization Westinghouse Environmental Management Co. of OH Telephone (513) 738-6
 - f) Operator of facility Westinghouse Environmental Management Company of Ohio
2. a) Reason for project: Provide the ability to isolate a spill entering the storm sewer system. Prevent SWRB from becoming contaminated in the event of a spill.

- b) Is this facility regulated under an effective NPDES Permit? Y N Permit 11000004*
 !X! ! !
- c) Is this application filed in compliance with Ohio EPA Findings and Orders or a Consent Order* Y N Date: _____
 ! ! X! !
 *If the answer is yes, fill in the effective date of the Finding and Orders.

(1) If the treatment works or modification of treatment works involves the construction any type of lagoon (non-concrete lined) other than a flow equalization lagoon, then hydrogeologic site investigation report, meeting the requirements given in Detailed Information, Item 13. m, page 5, must be submitted with this application.

(2) For modifications, additions, or replacement of existing works.

3. a) Designed by: Westinghouse Environmental Management Company of Ohio
 b) Address: P.O. Box 398704 Cincinnati, OH 45234-8704 Phone: (513) 738-6200
 c) Inspection Responsibility: Westinghouse Environmental Management Company of Ohio
 d) Address: P.O. Box 398704 Cincinnati, OH 45239-8704 Phone: (513) 738-6200

4. Project Costs: \$ 109,000 (X estimated bid invoiced)
 (Amount) (Check one)

5. Estimated schedule 2259
 a) Construction: begin Immediately after PTI issued complete 8 wks after begin const
 b) Operation: start 8 wks after begin const. compliance N/A

6. a) This new system has been designed for 0 MGD average flow.
 b) This existing system has been modified for additional 0 MGD average flow.
 c) This existing system has been modified to comply with effluent limits in Item 7.

7. Design performance criteria (use attachment if necessary)

Parameter	Units	30 Day Average	7 Day Average	Maximum
<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

8. Facility type: new X modify replace

- a) Pretreatment(*)
 b) X Industrial Direct Discharger(*)
 c) Livestock Management Plan
 d) Public
 Treatment Works(*)
 Sanitary Sewers
 Pump Station
 Land Application of Sludge (Plan Approval Only)
 e) Semi-Public, Private or Commercial(*)
 (*) Part 9d. must be completed

9. Plan Submitted should include (to be attached to the application)
- a) X Detail Plans (4 sets; consult with the appropriate District Office)
 X Construction Drawings
 Specifications
 X Site Plan
 X Vicinity Map
 X Schematic diagrams
- b) Data Sheets (as appropriate)
 Sanitary Sewer Data Sheet (sanitary sewers only)
 Pump Station Data Sheet (pump stations)
 Appendix G (long or short as appropriate)
 Wastewater Treatment Works-General Information (EPA Form 8003)

- 2259
- f) State the anticipated quality (concentration and loads) of all types of pollutants to be discharged by the facility.
 - g) State in detail the method for disposal for any wastewater or sludge listed in the question above. A complete description of any control system to be employed should be included.
 - h) If wastewater is to be discharged to a surface water, state the anticipated concentration (mg/l) and loading (lbs/day) of pollutants in the discharge, and the effect this discharge will have on the surface water under critical conditions. List any NPDES permits or indicate if an application has been filed.
 - i) If wastewater is to be discharged by injection into the groundwater, you must apply for a (UIC) underground injection control permit pursuant to OAC 3745-34. List any UIC permits or indicate if an application has been filed.
 - j) If wastewater is to be discharged to a sewerage system, what will be the effect on the sewerage system and wastewater treatment system.
 - k) Describe any monitoring equipment to be installed at the facility.
 - l) Will the proposed source conform with area-wide waste management plans for wastewater treatment?
 - m) Hydrogeologic site investigation report required for construction or modification of any type of a lagoon other than a concrete lined lagoon or a flow equalization lagoon which shall contain as a minimum:
 - 1) Well logs and material characteristics.
 - 2) Define the uppermost aquifer.
 - 3) Definition of geology/hydrogeology, and major aquifer(s) for water supply in the area of the proposed facility.
 - 4) Definition of depth to bedrock.
 - 5) Definition of saturated zone ("High Seasonal Water Table", perched zones etc.), includes interconnections and relationships between zones and with surface dischargers (streams, springs and seeps, etc.)
 - 6) Data characterizing soil materials to be utilized in construction. (If applicable.
 - 7) Note all sources of drinking water, including wells and springs, within 1,000 feet of the limits of waste placement.

For more details contact the district representative.

APPLICATION FOR PERMIT TO INSTALL ITEM 13 (a - m)

Manhole #34 Spill Control

- 13 a). Describe the product or service to be produced by the applicant along with a description of the proposed source/facility (i.e., the number of homes to be serviced, the number of employees, an existing electroplater subject to 40 CFR 413 Sub Part _____ and produces _____).
-

The Fernald Environmental Management Project (FEMP) (formally the Feed Materials Production Center) is a government-owned facility. Westinghouse Environmental Management Company of Ohio (WEMCO) manages the FEMP under prime contract with the United States Department of Energy (DOE).

The FEMP is located near the unincorporated town of Fernald, Ohio, approximately 32 km (20 mi) northwest of Cincinnati, Ohio (see Figure 1 in Appendix A). FEMP production operations cover approximately 136 acres in the center of a 1,050 acre site (see Figure 2 in Appendix A). Several rural communities and commercial operators lie within a 1-5 km (0.6-3 mi) radius of the plant.

The FEMP previously utilized various chemical and metallurgical processes to reduce uranium oxides, uranium fluorides, and recycle materials to uranium ingots and billets. Some of this metal was extruded into tubular form on press facilities located at the RMI Company, Ashtabula, Ohio, and returned to the FEMP for fabrication into fuel cores and target elements. These were used in nuclear reactors at other DOE sites. The FEMP ceased production in 1989 and is now devoted to cleanup and environmental remediation.

Manhole #34 is the collection point for the storm sewer system in the production area. In this application, the FEMP proposes to modify Manhole #34 to better control spills generated in the process area. The Manhole #34 Spill Control Project will remove an existing 15-inch high weir and replace it with a 17-inch high concrete dam and valve installed in the 60-inch outlet (see Figures 3 & Dwg. 22-G-5500-A-000427, Rev. 1 in Appendix A). This equipment will provide the capability of closing the valve and diverting spills back to the storm sewer lift station pump where materials will be pumped to the General Sump for treatment.

- 13 b). List the name and quantity of all materials and chemicals (solid, liquid, or gaseous) that will be used or produced by the source/facility (industrial facilities only).
-

This valve will be a pneumatic actuated mechanism controlled at the manhole. Hydraulic oils or liquids will not be involved.

- 13 c). State the reason for this application. Is this a new installation, modification to an existing source/facility, reconstruction of an existing source/facility, start up of a source/facility that has been permanently shutdown for _____ years? (State number of years), or as built plans for a facility already constructed.
-

This application is for a modification to the existing Manhole #34 structure. Manhole #34 is the control point for the disposition of storm water. Currently, storm water may either be pumped to Manhole 175 via the Stormsewer Lift Station or allowed to over flow the existing 15-inch high weir to the Storm Water Retention Basin (SWRB). The existing MH-34 weir acts like a dam and maintains a constant water level in the storm sewer. A spill of an oil based substance could float on top of the water and flow over the weir in such an arrangement. The new proposed weir and valve will reduce the level of stormwater in the system by allowing, during normal operation, stormwater to flow to the Stormwater Retention Basins. This system provides 1) a faster response to a spill entering the storm sewer system and 2) additional capacity to handle a spill entering the storm sewer system.

- 13 d). Has a previous Ohio EPA PTI or plan review application or plan submission been filed for this source/facility? If so, state the date and type of the application previously submitted.
-

Previous applications or plans have not been filed for this facility; however, this facility is part of a system covered under Permit #05-1043, Stormwater/Spill Retention Facility.

- 13 e). Will the proposed source/facility comply with all rules, laws, and regulations of Ohio EPA and U. S. EPA?
-

The proposed facility has been designed to comply with all applicable rules, laws, regulations of the Ohio EPA and U. S. EPA.

- 13 f). State the anticipated quality (concentration and loads) of all types of pollutants to be discharged by the facility.
-

Water

The manhole #34 spill control equipment will not generate or produce any discharges of pollutants. It will be used to control spills that may accidentally get into the stormsewer system.

Solid Waste

Sediment flow through manhole #34 into the Storm Water Retention Basin will depend on the stormwater runoff inflow rate. Much of this sediment will settle and accumulate in the downstream Stormwater Retention Basin and be cleaned out on a scheduled basis. The Stormwater Retention Basin is currently a permitted facility (Refer to 13 d. above).

- 13 g). State in detail the method for disposal for any wastewater or sludge listed in the question above. A complete description of any control equipment to be employed should be included.
-

Water

All stormwater, except spills, will be allowed to flow through Manhole #34 and on to the Stormwater Retention Basin (SWRB). Any spill will be diverted to the Stormsewer Lift Station and pumped to the General Sump for treatment or disposition.

Solid Waste

Sediment suspended in the stormwater will be allowed to flow through and on to the SWRB where solids will be allowed to settle out. Sludge in the SWRB will be

removed according to current "Standard Operating Procedures." sludge is removed, containerized, and delivered to the Plant 8 Rotary Kiln for roasting and final disposition.

- 13 h). If wastewater is to be discharged to a surface water, state the anticipated concentration (mg/l) and loading (lbs/day) of pollutants in the discharge, and the effect this discharge will have on the surface water under critical conditions. List any NPDES permits or indicate if an application has been filed.

The new equipment provides the capability to better control stormwater flow. It will allow the normal flow of stormwater into the SWRB or, in the event of a spill, be used to divert the spill through the Storm Sewer Lift Station to the General Sump for treatment. The Storm Sewer Lift Station and Stormwater Retention Basin are currently permitted outfalls under NPDES Permit No. 11000004*CD. Stormwater with currently regulated parameters will be handled in a manner that will not cause a violation of an effluent limitation. Spills will be isolated and analyzed for potential contaminants of concern and handled according to applicable environmental regulations.

- 13 i). If wastewater is to be discharged by injection into the groundwater, you must apply for a (UIC) underground injection control permit pursuant to OAC 3745-34. List any UIC permits or indicate if an application has been filed.

N/A. Discharge to groundwater will not occur.

- 13 j). If wastewater is to be discharged to a sewerage system, what will be the effect on the sewerage system and wastewater treatment system?

N/A. Wastewater or stormwater will not be discharged to a Publicly Owned Treatment Works (POTW).

- 13 k). Describe any monitoring equipment to be installed at the facility.

N/A. Additional monitoring equipment is not needed in the proposed Manhole #34 modification.

- 13 l). Will the proposed source conform with area-wide waste management plans for wastewater treatment?

The new facilities are compatible with the "Comprehensive Water Quality Report for the Lower Mainstream of the Great Miami River (River Mile 92.5 - 0.9) Montgomery, Warren, Butler, and Hamilton Counties, Ohio." This report is dated August, 1982 (Revised September, 1984) and was prepared by the Ohio EPA, Division of Water Pollution Control, Water Quality Management Section.

- 13 m). Hydrogeologic site investigation report required for construction or modification of any lagoon other than a concrete lined lagoon or a flow equalization lagoon which shall contain as a minimum:

- 1) Well logs and material characteristics.
- 2) Define the uppermost aquifer.
- 3) Definition of geology/hydrogeology, and major aquifer(s) for water supply in the area of the proposed facility.
- 4) Definition to depth of bedrock.
- 5) Definition of saturated zone ("High Seasonal Water Table", perched zones etc.), includes interconnections and relationships between zones and with surface discharges (streams, springs and seeps, etc.)
- 6) Data characterizing soil materials to be utilized in construction. (If applicable).
- 7) Note all sources of drinking water, including wells and springs, within 1,000 feet of the limits of waste placement.

N/A. This project does not involve the construction or modification of a lagoon.

APPLICATION FOR PERMIT TO INSTALL ITEM 9 (c); FORM 4309 - REPORT
OF INSTALLATION OF THE MANHOLE #34 SPILL CONTROL PROJECT

- A. SUMMARY
- B. DESCRIPTION OF EXISTING STORMWATER SYSTEM
- C. DESCRIPTION OF PROPOSED FACILITIES
- D. DESCRIPTION OF OPERATION OF MANHOLE 34

A. SUMMARY

The U. S. Department of Energy, Fernald Environmental Management Project (FEMP) is proposing a project to install equipment in Manhole #34 to improve the capability for controlling spills in the stormwater sewer system.

B. DESCRIPTION OF EXISTING STORMWATER SYSTEM

The FEMP is located near the unincorporated town of Fernald, Ohio, approximately 32 km (20 mi) northwest of Cincinnati, Ohio (Figure 1). FEMP production operations cover approximately 136 acres in the center of a 1,050 acre site (Figure 2).

The FEMP storm sewer system collects stormwater runoff and conveys it, by gravity, from the plant process area to Manhole #34. During periods of minimal rainfall, storm water collected in the process area storm sewers is pumped to the Great Miami River via MH-175 (NPDES outfall 1I000004001). This is accomplished by activating the pumps at the Storm Sewer Lift Station (SSLS - NPDES outfall 1I000004604) which drains the accumulated storm water (accumulated by means of a weir) from the storm sewer. When a rainfall event causes the collected stormwater quality to be threatened due to increased levels of suspended solids, the SSLS pumps are temporarily shut off. This allows the stormwater depth to build up and spill over the weir to the Stormwater Retention Basin (SWRB).

The SWRB serves as a collection/retention reservoir for stormwater runoff. The SWRB is designed for a 10-year, 24-hour storm event. Effluent from the SWRB (NPDES outfall 1I000004606) is pumped to the Great Miami River via MH-175 and is monitored daily (when discharging) for TSS, oil and grease, and monitored continuously (when discharging) for flow rate and pH.

Manhole #34 is a connector at which four stormsewer lines join and empty into one 60-inch line. This 60-inch stormsewer line runs south and empties into the Storm Water Retention Basin (SWRB), (Ref. Fig. 2 in Appendix A).

C. DESCRIPTION OF PROPOSED FACILITIES

The proposed modification consists of removing an existing 15-inch high concrete weir located in the 60-inch pipeline to the SWRB and replacing it with a 17-inch high concrete dam and valve. An 8-inch pipe will be cast through the concrete dam and an air actuated valve will be attached to

the down stream end (Ref. Fig. 3 and Dwg. 22G-5500-A-00427, Rev. 1 in Appendix A).

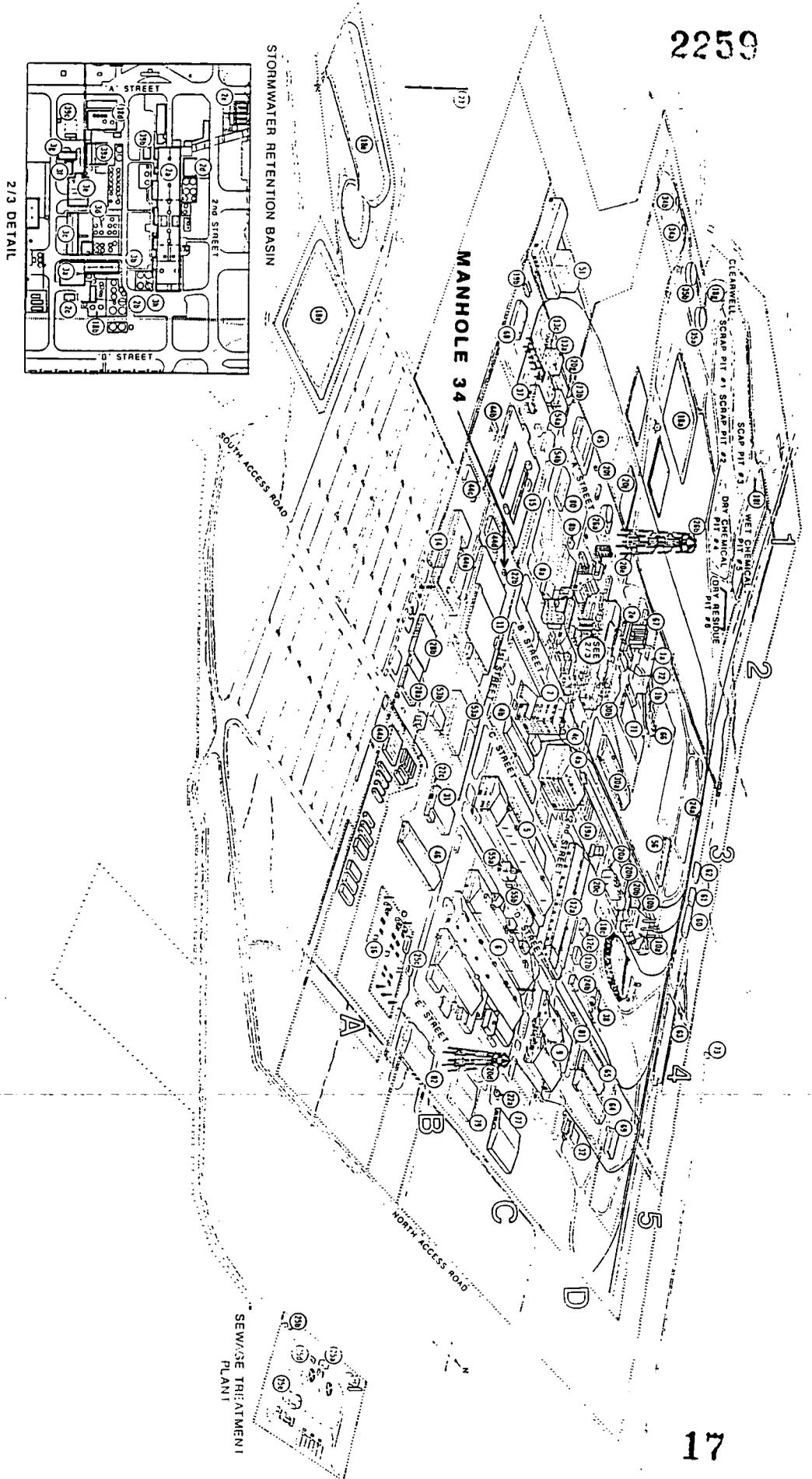
D. OPERATION

The air actuated valve will be open during normal operation. In the open position, an effluent level of approximately 5 inches will be maintained in the storm sewer system. In the event of a spill, the valve will be closed and all flow will be stopped at this point to a level of 17-inches deep.

There is an existing 12-inch pipe line that runs from the SSLS to the General Sump. When a spill has occurred and the proposed air actuated valve has been closed, the existing valves will be aligned to allow the SSLS pumps to discharge the spill, or spill contaminated storm water, directly to the General Sump for containment and disposition.

APPENDIX A

APPLICATION FOR PERMIT TO INSTALL ITEM 9(a); FORM 4309



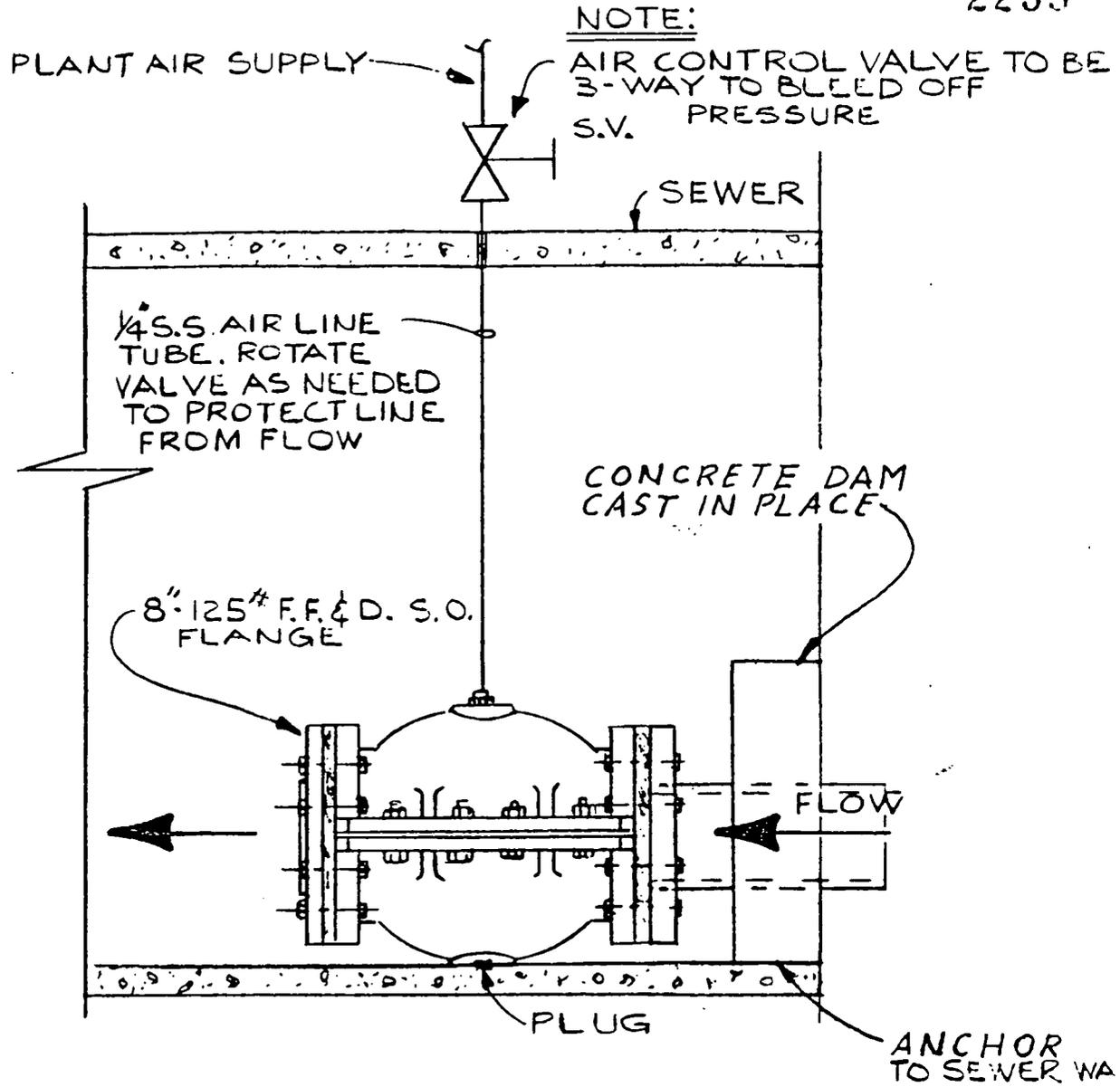
See Following Page For Building Identification

Figure 2

1A BUILDING IDENTIFICATION

Building No.	Grid Coordinates	Title	Building ID No.	Grid Coordinates	Title
00	C-3	General	24a	D-3	Railroad Scale House
1a	C-3	Preparation Plant	24b	C-4	Railroad Engine Building
1b	B-3	Plant 1 Storage Building	24c	*	Chlorination House
2a	B-3	Ore Refinery Plant	25b	*	MH #175
2b	B-3	Lime Handling Building	25c	A-5	Sewage Lift Station Building
2c	B-3	Bulk Lime Handling Building	25d	*	U.V. Disinfection Building
2d	C-3	Metal Dissolver Building	25e	*	Digester Control House
2e	C-3	NFS Storage and Pump House	26a	B-3	Pump House - H.P. Fire Protection
3a	B-3	Maintenance Building	26b	B-3	Fire Protection Storage Tank
3b	B-3	Ozone Building	28a	A-4	Security Building
3c	B-3	Control House	28b	A-4	Human Resources Building
3d	B-3	NAR Towers	30a	C-3	Chemical Warehouse
3e	B-3	Hot Raffinate Building	30b	C-3	Drum Storage Warehouse
3f	B-3	Digestion Fume Recovery	31	A-5	Engine House - Garage
3g	B-3	Refrigeration Building	32	D-5	Magnesium Storage
3h	B-3	Refinery Sump	34a	B-1	K-65 Storage Tank - North
4a	B-4	Green Salt Plant	34b	B-1	K-65 Storage Tank - South
4b	B-4	Plant 4 Warehouse	35a	C-1	Metal Oxide Storage Tank - North
4c	B-4	Plant 4 Maintenance Building	35b	B-1	Metal Oxide Storage Tank - South
5	B-4	Metals Production Plant	37	A-3	Pilot Plant Annex
6	B-5	Metals Fabricating Plant	38	D-4	Propane Storage
7	B-4	Plant 7	39a	B-3	Incinerator Building
8a	B-3	Recovery Plant	39b	B-3	Warehouse
8b	B-3	Maintenance Building	39c	B-3	Incinerator Bulding Sprinkler Riser House
9	C-5	Special Products Plant	44a	A-5	Trailer Complex - 6-Plex - East
10a	D-4	Boiler Plant	44b	A-4	Trailer Complex - 3-Plex
10b	D-4	Boiler House Maintenance Building	44c	A-3	Trailer Complex - 7-Plex - South
11	A-4	Service Building	44d	A-3	Trailer Complex - 7-Plex - North
12a	C-4	Maintenance Building (Main)	44e	A-4	Trailer Complex - 10-Plex
12b	C-4	Cylinder Storage Building	45	A-3	Building 45
12c	C-4	Lumber Storage Building	46	A-5	Heavy Equipment Garage
13a	A-3	Pilot Plant Wet Side	51	A-2	UF ₆ to UF ₄ Reduction Facility II
13b	A-3	Pilot Plant Maintenance Building	53a	A-4	Health, Safety & Production Control Building
13c	A-3	Sump Pump House	53b	A-4	In-Vivo Building
14	A-4	Administration Building	54a	A-3	UF ₆ to UF ₄ Reduction Facility I
15	A-3	Laboratories	54b	A-3	Warehouse/Weather Shelter
16	A-5	Main Electrical Substation	55a	B-4	Slag Recycling Plant
18a	C-2	Surge Lagoon	55b	B-4	Slag Recycling Pit/Elevator
18b	B-3	General Sump	56	D-3	CP Storage Warehouse
18c	C-4	Coal Pile Runoff Basin	60	D-3	Quonset Number 1
18d	B-3	Biodenitrification Towers	61	D-3	Quonset Number 2
18e	*	Storm Water Retention Basin	62	D-3	Quonset Number 3
18f	D-1	Pit 5 Sluice Gate	63	D-4	KC-2 Warehouse
18g	C-1	Clearwell Pump House	64	D-5	Plant 9 Warehouse
19a	C-4	Metal Tank Farm	65	D-5	Plant 5 Warehouse
19b	A-3	Pilot Plant Ammonia Tank Farm	66	C-3	Drum Reconditioning Building
20a	C-4	Valve/Control Building	67	C-3	Plant 1 Storage Building
20b	D-4	Filter/Chemical Building	68	A-3	Pilot Plant Warehouse
20c	C-4	Cooling Towers	69	D-5	Decontamination Building
20d	B-5	Elevated Storage Tank (Potable H ₂ O)	71	C-3	General In-Process Storage Warehouse
20e	B-3	Well House	72	C-3	Drum Storage Building
20f	B-3	Well House	73	*	Fire Brigade Training Center Building
20g	A-3	Well House	77	C-5	Finished Products Warehouse
20h	D-4	Process Water Storage Tank	78	*	New D&D Facility (On Hold)
20j	B-2	Lime Slurry Pits	79	B-5	Plant 6 Warehouse
22a	B-5	Gas Meter Building	80	B-3	Plant 8 Warehouse
22b	A-3	Sewer Lift Station	81	C-5	Plant 9 Warehouse
22c	A-5	Truck Scale	82	B-5	Receiving & Incoming Materials Inspection Area
23	*	Meteorological Tower			* Outside of Perimeter Security Fence

NOTE: Any Unidentified Area is Referred to as 00 General



M.H. #34 - INSTALLATION OF VALVE

RE.S.1404

PD-18-90101-02

FIGURE 3

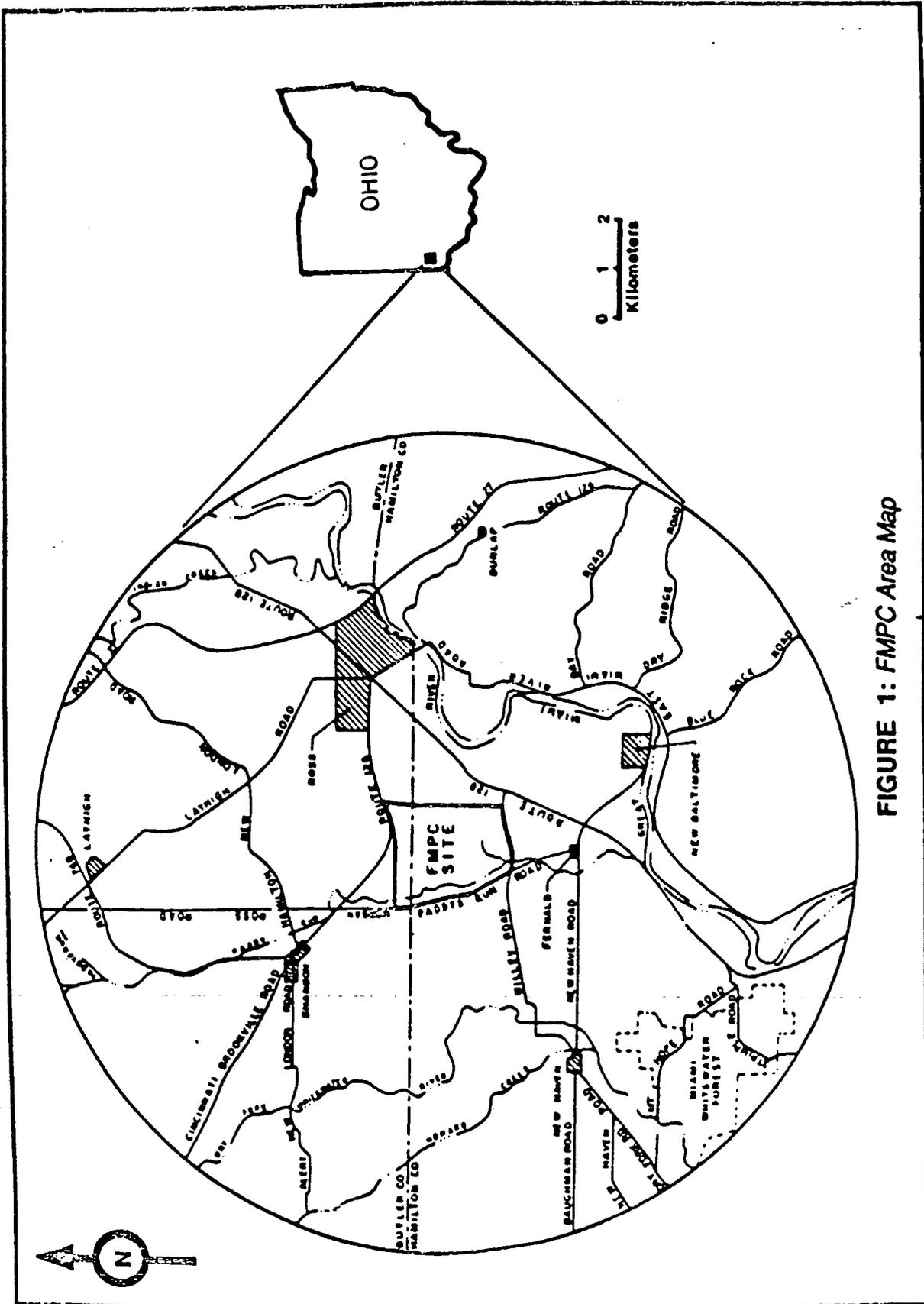


FIGURE 1: FMPC Area Map

2259



Westinghouse Materials Company of Ohio, Inc.

P.O. Box 398704
Cincinnati, Ohio 45239

CHECK NUMBER **0925**
56-204
322

PAYABLE THROUGH
THE CENTRAL TRUST COMPANY, N.A.
TechnoCenter - RCPC Office
Milford, Ohio 45150

DATE **91/09/13**

PAY EXACTLY *******333DOLLARS AND00CENTS**
TO THE ORDER OF **VOID 90 DAYS FROM DATE**

\$333.00

TREASURER, STATE OF OHIO

WESTINGHOUSE MATERIALS COMPANY OF OHIO, INC.
GENERAL ACCOUNT

Wastewater Treatment PTI Mod. to Manhole 34

⑈92555⑈



⑈770991196⑈

2259

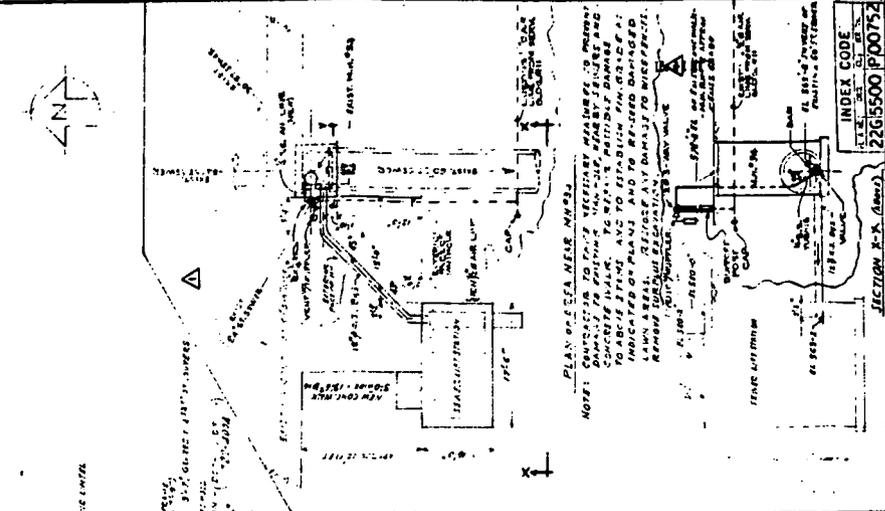
INVOICE DATE	REFERENCE/INVOICE NO.	AMOUNT OF INVOICE	DEDUCTION	AMOUNT
05/20/91	85274 / 00085274	333.00		333.00
Wastewater Treatment PTI Modification to Manhole 34				

THE ACCOMPANYING CHECK IS IN
SETTLEMENT OF THE ITEMS STATED
ABOVE IF NOT CORRECT PLEASE
RETURN AT ONCE

092555

Westinghouse Materials Company of Ohio, Inc.
P.O. Box 68870, Cincinnati, Ohio 45268

WMCO-AC-1091



INDEX CODE
22259
2266500 P001752

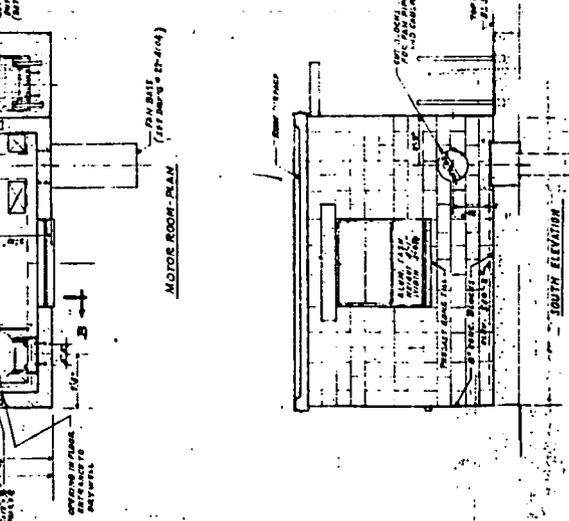
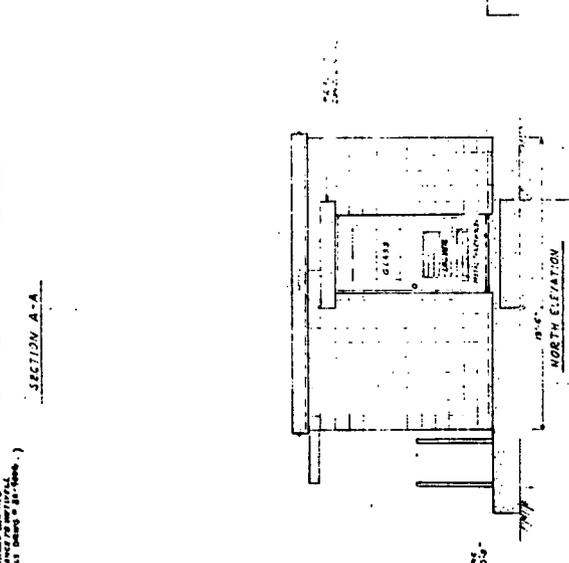
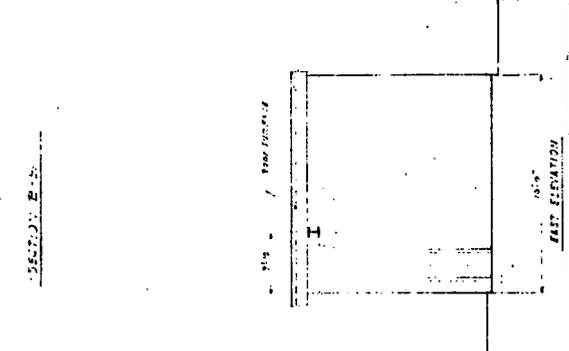
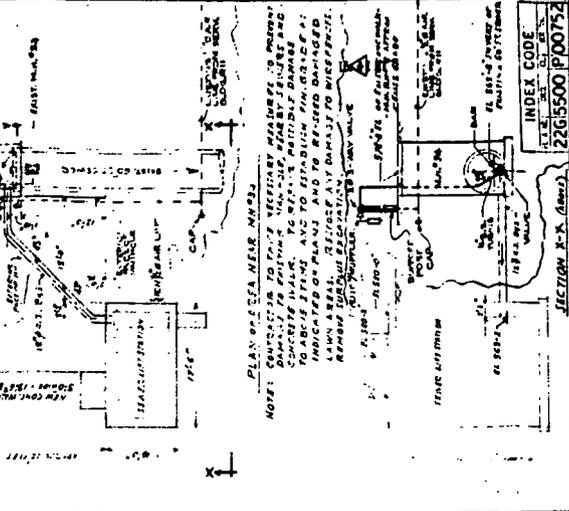
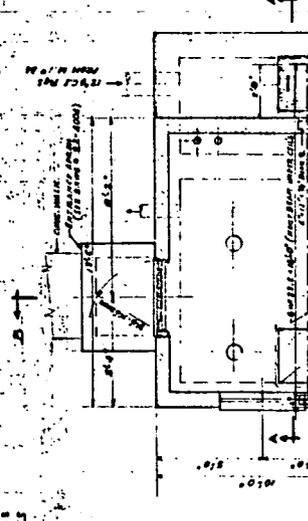
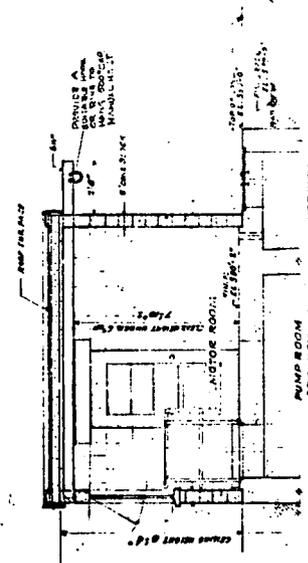
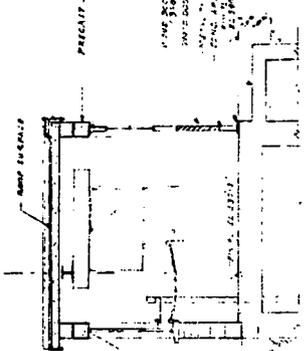
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2266500 P001752

NATIONAL LEAD COMPANY OF OHIO
FEDERAL MATERIALS PRODUCTION CENTER
FERNALD, OHIO

U.S. ATOMIC ENERGY COMMISSION

PLANT 22
SEWER LIFT STATION - ARCHITECTURAL
ARRANGEMENT AND DETAILS

NO.	DATE	BY
1	11-15-53	J.M.
2	11-15-53	J.M.
3	11-15-53	J.M.
4	11-15-53	J.M.



NO.	DATE	BY	REVISIONS
1	11-15-53	J.M.	ISSUE FOR PERMIT
2	11-15-53	J.M.	ISSUE FOR CONSTRUCTION
3	11-15-53	J.M.	ISSUE FOR CONSTRUCTION
4	11-15-53	J.M.	ISSUE FOR CONSTRUCTION

DO NOT SCALE REDUCED DRAWING

REF. DWG. NO. REF. DWG. TITLE

22-4226

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