2476

G-000-102.50

RCRA PART B PERMIT APPLICATION SECTION B: FACILITY DESCRIPTION VOLUME 2 OF 13 OCTOBER 31, 1991

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APPLICATION

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2476

RCRA PART B PERMIT APPLICATION

October 31, 1991

SECTION B: FACILITY DESCRIPTION

(Volume 2 of 13)

Fernald Environmental Management Project

U.S. EPA Identification No. 0H6890008976
Ohio EPA Permit No. 05-31-0681

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SECTION B - FACILITY DESCRIPTION

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SECTION B:
FACILITY DESCRIPTION

SECTION B - FACILITY DESCRIPTION

RCRA Part B Permit Application
Fernald Environmental Management Project
Fernald, Ohio

This section provides a general description of the Fernald Environmental Management Project (FEMP) as required by Ohio Administration Code (OAC) 3745-50-44(a)(1) and Title 40 of the Code of Federal Regulations (CFR) 270.14(b).

It is Westinghouse Environmental Management Company of Ohio's (WEMCO) position that the following surface impoundments listed in this document did not manage a listed hazardous waste because of the application of the wastewater mixture rule exemption, and, as such, are exempt from hazardous waste management unit requirements: waste pit No. 5, the clearwell, the bio-surge lagoon, the sludge drying beds, the lime sludge ponds and the coal pile runoff basin. WEMCO is executing this document as co-operator in the spirit of cooperation with DOE which has overall responsibility for the FEMP. But in doing so, WEMCO does not agree that the listed surface impoundments are hazardous waste management units or that they and the listed surface impoundments are hazardous waste management units or that they and the listed wastewater streams are subject to hazardous waste statutes or regulations and WEMCO, in executing the document expressly reserves all rights with respect thereto.

B-1 GENERAL DESCRIPTION

Formerly the Feed Materials Production Center (FMPC), the FEMP is located on a 1050-acre Federal Reservation in Hamilton and Butler counties in Southwestern Ohio. The FEMP is approximately 20 miles northwest of Cincinnati, Ohio between the villages of Ross and Fernald. The production facilities occupy approximately 136 acres in the center of the site. Figure B-1 shows the location of the FEMP relative to the surrounding area.

The FEMP is owned by the United States Department of Energy (DOE) and operated by the DOE/Fernald Office (DOE-FO). Operational guidance and program direction for the FEMP is administered through DOE Headquarters, Environmental Restoration and Waste Management.

The FEMP was a large-scale integrated feed materials production facility which produced uranium metal used in the fabrication of fuel cores and target fuel elements for the DOE defense programs. In July, 1989, the FEMP's primary function officially changed from uranium metal production to environmental restoration and site clean-up activities.

Because past operations at the facility involved uranium and thorium, much of the hazardous waste currently in storage is radioactive mixed waste. Only the hazardous components of the mixed waste are subject to regulation under the Resource Conservation Recovery Act (RCRA).

The FEMP is not required to comply with Federal and Ohio hazardous waste laws and hazardous waste regulations, with regard to mixed waste, where compliance will increase the risk to human safety and health or the environment, as applied in the Consent Decree and its proposed amendments.

The FEMP is seeking a permit for on-site container storage units. The units are to be used for the storage of hazardous waste generated when the facility was in production and for the storage of currently generated hazardous waste. The hazardous waste currently generated at the FEMP

includes maintenance/construction wastes, laboratory waste, closure and remedial activity wastes.

Hazardous waste generated by other DOE programs has been and may be received and stored at the FEMP. This hazardous waste is similar to the types of hazardous waste generated at the FEMP. Hazardous waste generated at off-site laboratories during the analysis of FEMP waste may also be returned to the FEMP. Hazardous waste from off-site sources is received at the FEMP in accordance with the conditions set forth in the Consent Decree and its proposed amendments.

Table B-1 lists the name, location, and capacities for the container storage areas to be permitted for storage of hazardous waste. The locations of these units are identified on Figure B-2 (Section B).

B-2 TOPOGRAPHIC MAP

B-2a General Requirements

Several maps and drawings have been included in order to satisfy the requirements in OAC 3745-50-44(A)(19), OAC 3745-50-44(B)(3) and 40 CFR 270.14(b)(19). The site plan, production facility boundaries, and locations of on-site buildings are shown in Figure B-2 (Sections A, B, and C).

Topography

Figure B-2 (Sections A, B, and C) shows the topography of the FEMP site and approximately 1000 feet beyond the property line. The elevations are defined by contour intervals of one foot. The topography was produced by stereographic mapping techniques from a flyover done on April 12, 1985.

The production facilities are located near the center of the site. Topographically, the production area is on a relatively level plane at about 580 feet above sea level. North of the production area at the northern boundary of the site the elevation rises to 698 feet above sea level. The western and southern edges of the site slope towards Paddy's Run to an elevation of approximately 551 feet.

One Hundred Year Floodplain Area

The 100-year floodplain areas are identified on Figure B-3 (Sections A, B, and C). Additional information concerning the floodplain area is contained in Section B-3b.

Surface Water

The surface water bodies within 1000 feet of the FEMP include Paddy's Run and its tributaries as shown on Figure B-4. Paddy's Run is a small creek that runs along the western boundaries of the FEMP. The Great Miami River is located approximately 0.75 miles east of the FEMP.

Surrounding Land Uses

Figure B-3 (Sections A, B, and C) identifies the land usage within 1000 feet of the FEMP boundary. Area land uses include agricultural, residential, and light industrial. Included under the agricultural designation are farm crops and dairy farming.

Population distribution located within a ten mile radius of the FEMP is shown by compass sector in Table B-2.

Wind Rose

A wind rose indicating the wind speed and direction is shown on Figure B-3 (Section C). The FEMP wind rose is based on data obtained from 1987 through 1990 from the on-site meteorological station. Approximately 83% of the possible observations at the 10 meter height are represented. The predominant wind direction is from the southwest.

Map Orientation

The plant orientation as to Grid North, True North and Magnetic North is shown on Figure B-3 (Section C).

Legal Boundaries

The FEMP's legal boundaries are identified on Figure B-3 (Sections A, B, and C). The boundaries are defined by 36 segments. The coordinates of the points of intersection of these segments are included in a table on Figure B-3 (Section C).

Access Control

Primary access to the facility is at the southern end of the site from Willey Road. Willey Road connects to State Route 128 approximately 3300 feet southeast of the facility entrance. The main vehicle traffic entrance to the production area is through a locked gate that is under 24 hour surveillance. A second access road to the facility connects to State Route 126 to the north. Truck access is available through a gate at the Receiving and

Incoming Materials Inspection Area. Also located on the north side of the facility is a construction entrance through a locked gate. This gate is used infrequently, but could be used if necessary. When this gate is open, entrance to the production area is only possible if other, internal gates are open. Both the facility perimeter and the production area are surrounded by eight foot high chain link fencing. The personnel gate entrance and an entrance through the administration office is located at the southern end of the facility.

Figure B-5 shows the various major roads and Interstates located in and around the FEMP.

Injection and Withdrawal Wells

There are no injection wells located at the FEMP. There are three withdrawal (production) wells located in the southwest quadrant the production facility shown on Figure B-4. The depth of each of the wells is 210 feet and the depth to the surface of the regional aquifer water table ranges between 50 and 60 feet. Water used at the FEMP is supplied by these production wells.

Several private wells are located within 1000 feet of the property boundary. These wells are identified on Figure B-4. No private injection wells are known to be located within the vicinity of the FEMP.

Buildings and Structures

Figure B-6 locates and identifies the major buildings and structures within the FEMP production area.

Sewer Systems (Sanitary, Storm, and Process)

The FEMP production area has separate sanitary, storm, and process sewer systems. Attachment B-1 includes drawings identifying the underground sewer systems for the entire facility.

Loading and Unloading Areas

The two primary loading and unloading areas for the permitted storage units are identified on Figure B-8. Of the permitted units, only the Plant 6 Warehouse (Building 79) and the Plant 1 Pad have designated loading and unloading areas. Additional and temporary loading/unloading areas are located at various locations throughout the production area. Section D, Process Information includes more detailed information concerning loading and unloading areas at the FEMP.

Fire Control Facilities

The fire control facilities are identified on Figure B-3 (Sections B and C). Vehicles that contain emergency response and fire protection equipment are stored in Building 31 and Building 46. Water supply storage at the FEMP consists of several ground level and elevated storage tanks supplied by the three on-site production wells. Underground water main systems supply water to hydrants, sprinkler systems, and standpipes at the major buildings and processing areas. Additional information about the FEMP's fire control facilities, including fire equipment, hydrants, and fire extinguishers is discussed in Section G, Contingency Plan.

Run-off and Drainage Control Systems

The storm sewer system currently collects stormwater runoff from building roof drains, uncontrolled storage pads, roadways, open ground areas, and railroad underdrains. Site drainage is partially controlled by curbs and modified topography. The controlled stormwater run-off and drainage areas located within the FEMP boundaries are indicated by the shaded areas on Figure B-4.

B-2b Additional Requirements for Land Disposal Facilities

This section is not applicable. The FEMP is not seeking a permit to operate a land disposal facility.

B-3 LOCATION INFORMATION

B-3a Seismic Standard

The FEMP is not required to address this section in accordance with OAC 3745 50-44, 40 CFR 270.14(b)(11), 40 CFR 264.28(a) and 40 CFR 264 Appendix VI.

B-3b Floodplain Standard

The cross-hatched areas of the map, shown in Figure B-3 (Sections A, B, and C), are those within 100 year floodplain (Zone A). The narrow band along the western boundary is within the 100 year floodplain of Paddy's Run. The remainder of the site i located in Zone C (areas of minimal flooding). This information is taken from the 1973 US Geological Survey, and the Flood Insurance Rate Map (FIRM), Panel 10 of 105 (Community Pane), Number 390204 0010 B, effective date June 1, 1982.

The FEMP is built on an upland till plain above the Great Miami River 100 year floodplain. The eastern boundary of the site i located approximately 0.75 miles west of the Great Miami River. The 100 year floodplain elevation of the Great Miami River nearest the FEMP is approximately 548 feet above mean sea level. The production and hazardous waste storage areas rest on a relatively level plain at an approximate elevation of 580 feet. The plain slopes from 600 feet along the eastern boundary of the FEMP to 570 feet at the K-65 silos, and then drops off towards Paddy's Run at an elevation of 550 feet. The maximum elevation at the FEMP is located along the northern boundary and is approximately 700 feet above sea level.

B-3b(1) Demonstration of Compliance

The FEMP hazardous waste management units are located above the Great Miami River floodplain and Paddy's Run floodplain,

therefore this section is not applicable.

B-3b(2) Plan for Future Compliance with Floodplain Standard

The FEMP Hazardous Waste Management Units are located above the Great Miami River floodplain and Paddy's Run floodplain, therefore this section is not applicable.

B-3b(3) Waiver for Land Storage and Disposal Facilities

The FEMP Hazardous Waste Management Units are located above the Great Miami River floodplain and Paddy's Run floodplain, therefore this section is not applicable.

B-4 TRAFFIC INFORMATION

Primary vehicle access to the FEMP is located at the southern end of the site from Willey Road. Willey Road connects to State Route 128 approximately 3300 feet southeast of the FEMP. Plant personnel, contractors, visitors, and some shipments are received through an entrance located at the southeast corner of the production area. A secondary entrance tot he production area is located on the east side of the facility on an access road between the primary entrance and State Route 126. The secondary entrance is identified as the Receiving and Incoming Materials Inspection Area for miscellaneous deliveries. A third entrance, located at the north end of the facility, is currently not used. This entrance is accessed from State Route 126. State Route 126 intersects with State Route 128 at Ross, Ohio, northeast of the facility.

Access to the facility is limited by perimeter fences and gates under continuous 24 hour, seven days per week control by security patrolmen as described in Section F-1, Security.

Traffic control signals within the FEMP boundaries consist of stop signs, yield signs, and speed limit signs (Figure B-8). The FEMP main roads are two-way. There are no stacking or turning lanes within the production area. Within the production area, vehicles consist primarily of trucks, four wheel trailers, other company personnel transport vehicles, and industrial equipment. Employee vehicles are confined to the parking lots and entrance roads located outside of the production area. The number of vehicles on plant roads is generally light. The two heaviest time periods for traffic are between 6:30 and 7:30 AM, and 3:30 and 4:30 PM.

The FEMP bases its selection of hazardous waste movement routes ont eh shortest route, the best road, and the least congested area, when possible. Since most of the production area roadways are used for pedestrian traffic, utmost caution is used in the movement of hazardous wastes to ensure the loads are secured and do not endanger pedestrians.

Existing paved on-site roads at the FEMP consist of two inches of bituminous concrete pavement (blacktop) overlaid on a six to eighth inch reinforced concrete slab pavement. Below the concrete slab pavement is six to twelve inches of compacted aggregate base. New major roads are constructed of a similar cross section as the existing roads, generally an asphaltic concrete surface wearing course overlaid on stabilized aggregate base.

Maintenance of the road system is conducted under the FEMP's yearly program of road upgrading and consists of repaving or replacement as needed.

Paved on-site roads are capable of bearing loads up to allowable state highway limitations of 80,000 pounds. Various equipment including forklifts, small trailers, and trucks may be used to transport containers within the FEMP.

Off-site shipments are loaded into tractors trailers at the storage areas or at the loading dock. These tractor trailers normally weigh up to 32,000 pounds and are loaded with approximately 43,000 or less pounds of hazardous wastes when transporting off-site. The number of containers that can be transported is dependent upon the individual container's weight and size.

SECTION B:
TABLES

SECTION B - FACILITY DESCRIPTION

TABLE B-1

CONTAINER STORAGE AREAS TO BE PERMITTED AT THE FEMP

HAZARDOUS WASTE MANAGEMENT UNIT	LOCATION OF HWMU	UNIT CAPACITY
CP Storage Warehouse Building 56 (Butler Building	Northwest corner of production area on 3rd Street	127,435 gallons
KC-2 Warehouse (Building 63)	North end of production area, east of B Street and North of RR tracks	234,520 gallons
Pilot Plant Warehouse (Building 68)	Southwest corner of production area	9,900 gallons
Plant 1 Pad	Northwest section of production area, north of 2nd Street and west of E Street	10,892,200 gallons
Plant 6 Warehouse (Building 79)	Western section of production area, north of 1st Street and east of E Street	202,620 gallons
Plant 8 Warehouse (Building 80)	Western section of production area, north of 1st Street and west of B Street	139,260 gallons
Plant 9 Warehouse (Building 81)	Northwest section of production area, north of 2nd Street and east of D Street	83,160 gallons

SECTION B - FACILITY DESCRIPTION

TABLE B-2

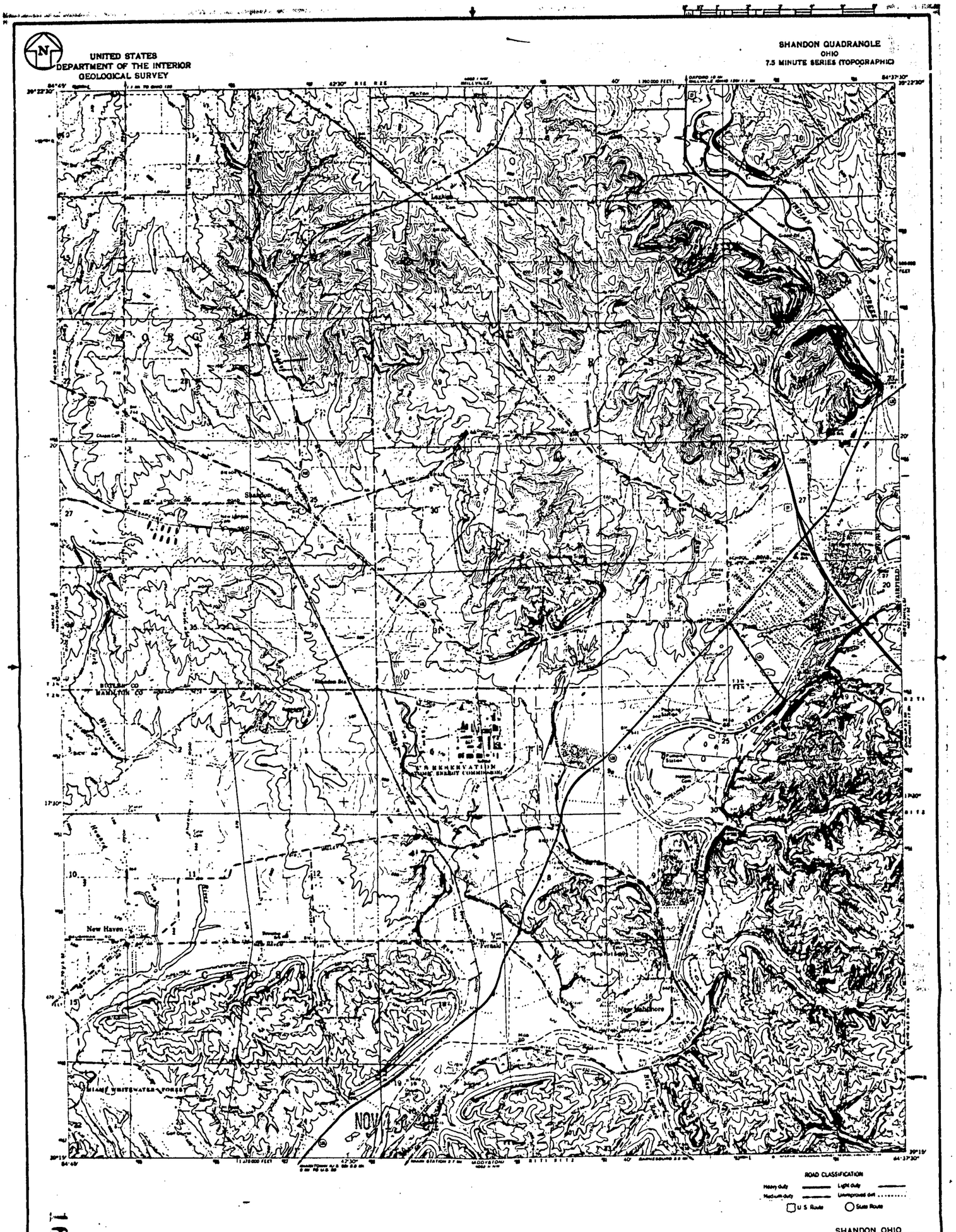
POPULATION DISTRIBUTION WITHIN TEN MILES OF THE FEMP

Compass Sector	0-5 miles (0-8 km)	5-10 miles (8-16 km)
N	445	3,395
NNE	221	18,959
NE	489	32,001
E	512	40,770
ESE	713	54,533
SE	1,606	36,467
SSE	985	28,932
S	669	19,214
SSW	390	4,217
SW	185	2,957
WSW	440	4,961
W	519	1,765
WNW	157	1,361
NW	511	1,433
NNW	519	1,134
TOTAL	10,850	277,859

TOTAL FOR ALL SECTORS: 288,709

Based on "Report Findings, Population Studies for DOE, Feed Materials Production Center, Near Fernald, Ohio," dated May 18, 1981.

SECTION B:
FIGURES



NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

APPROVALS

CHEMICAL	E.S. & H.
CIVIL & STR.	MAINTENANCE
ELECTRICAL	NAT. SAFETY
ENGINEER	Q.A.
INSTRUMENT	PRODUCTION
MECHANICAL	PROD. TECH.
	WASTE MANAGE
CHECKED	
APPROVED	

U.S. DEPARTMENT OF ENERGY

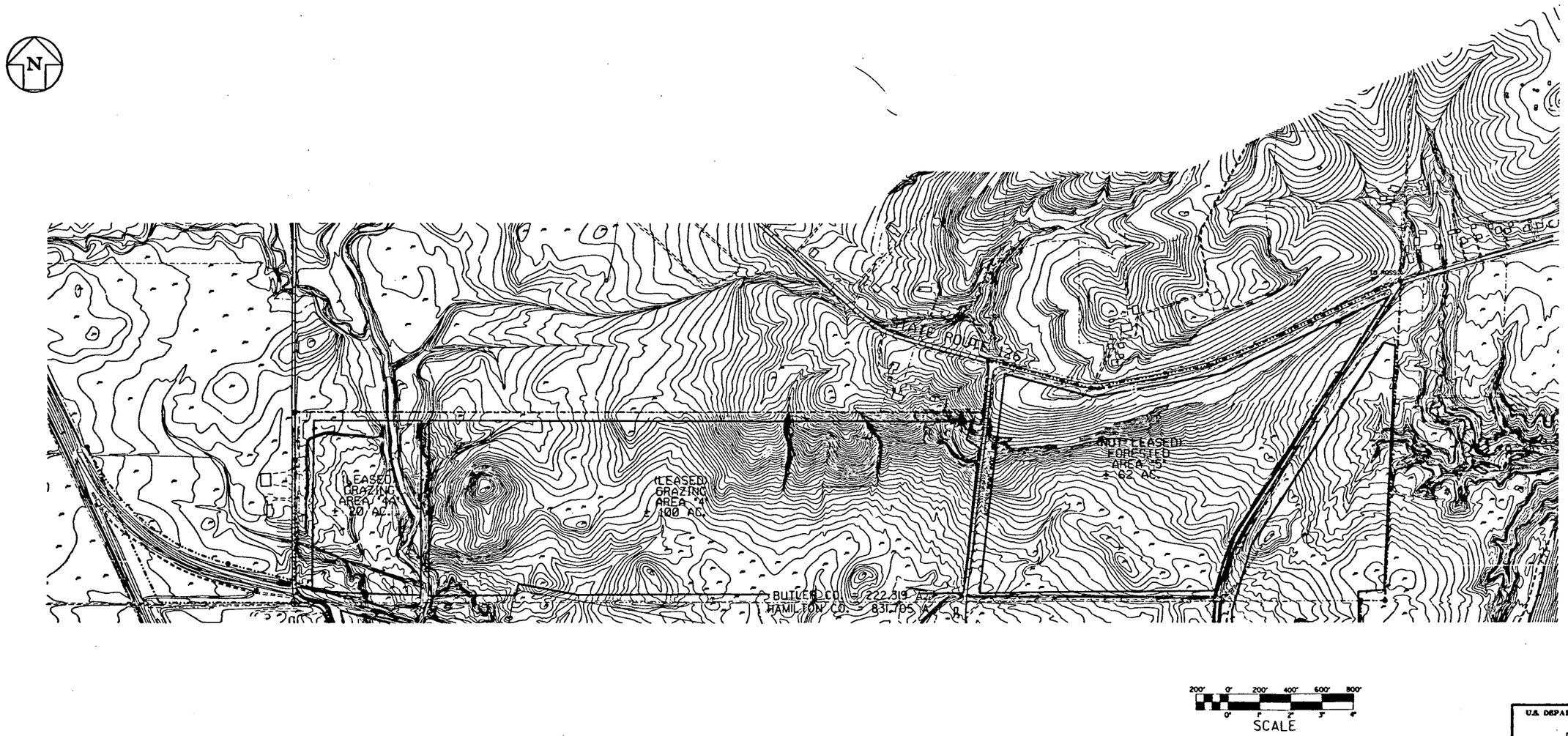
FIGURE B-1

FERNALD, OHIO

FILE NAME:

16

2476

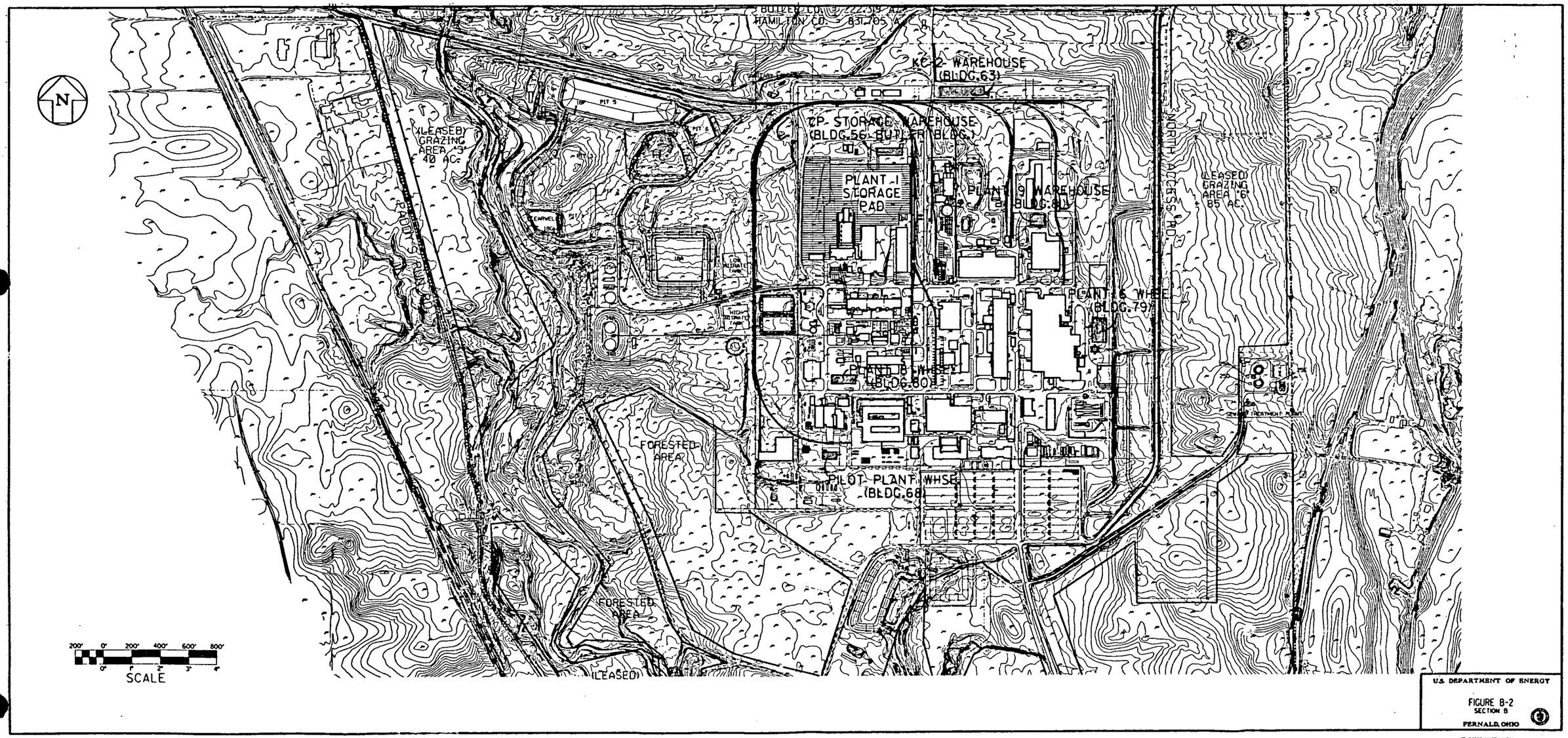


200' 0' 200' 400' 600' 800'
0" 1" 2" 3" 4"
SCALE

U.S. DEPARTMENT OF ENERGY

FIGURE B-2
SECTION A

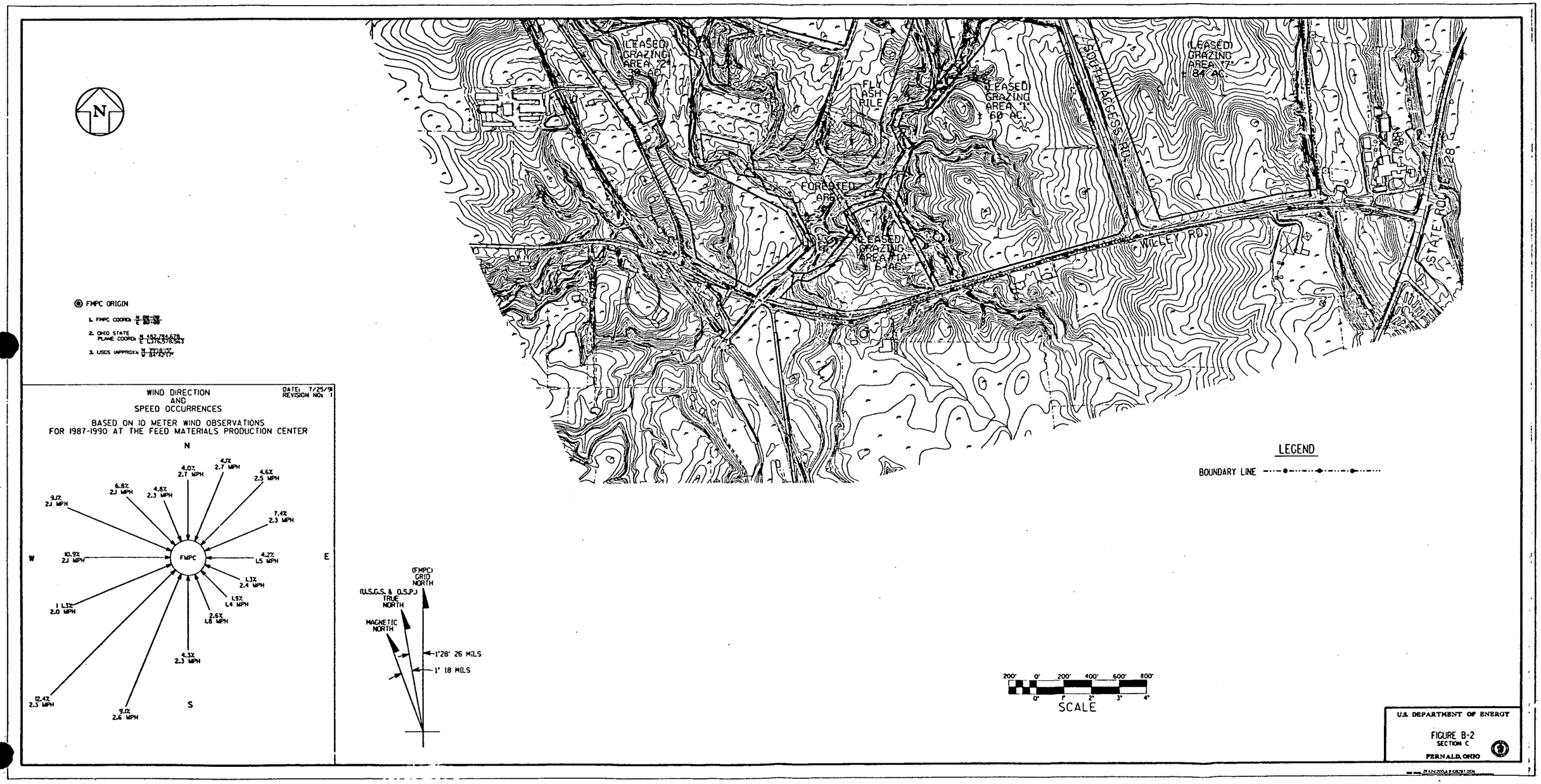
FERNALD, OHIO

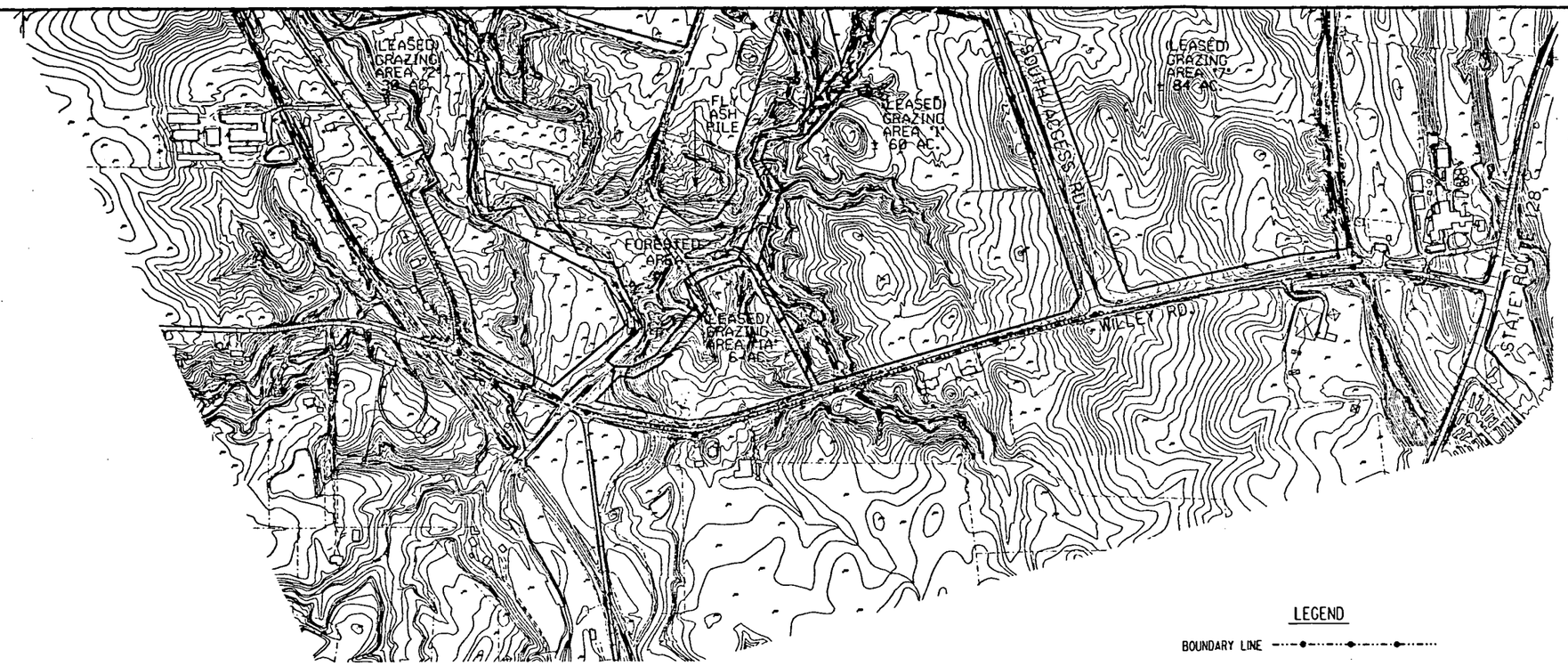


U.S. DEPARTMENT OF ENERGY

FIGURE B-2
SECTION B

FERNALD, OHIO


N
(LEASED) GRAZING AREA "2" ± 30 AC.
FLY ASH PILE
(LEASED) GRAZING AREA "1" ± 60 AC.
SOUTH ACCESS RD.
(LEASED) GRAZING AREA "7" ± 84 AC.
FORESTED AREA
(LEASED) GRAZING AREA "1A" ± 6 AC.
WILLEY RD.
STATE ROUTE 128
FMPC ORIGIN
1. FMPC COORD: N 00-00 E 00-00
2. OHIO STATE PLANE COORD: N 482,794.678 E 1,376,578.563
3. USGS (APPROX): N 39°18'15" W 84°42'17"
WIND DIRECTION AND SPEED OCCURRENCES
DATE: 7/25/91
REVISION NO: 1
BASED ON 10 METER WIND OBSERVATIONS FOR 1987-1990 AT THE FEED MATERIALS PRODUCTION CENTER
N
W
E
S
FMPC
4.0% 2.7 MPH
4.1% 2.7 MPH
4.6% 2.5 MPH
7.4% 2.3 MPH
4.2% 1.5 MPH
1.3% 2.4 MPH
1.9% 1.4 MPH
2.6% 1.8 MPH
4.3% 2.3 MPH
9.1% 2.6 MPH
12.4% 2.3 MPH
1 1.3% 2.0 MPH
10.9% 2.1 MPH
9.1% 2.1 MPH
6.8% 2.1 MPH
4.8% 2.3 MPH
(FMPC) GRID NORTH
(U.S.G.S. & O.S.P.) TRUE NORTH
MAGNETIC NORTH
1°28' 26 MILS
1° 18 MILS
LEGEND
BOUNDARY LINE
200' 0' 200' 400' 600' 800'
0° 1° 2° 3° 4°
SCALE
U.S. DEPARTMENT OF ENERGY
FIGURE B-2
SECTION C
FERNALD, OHIO



N

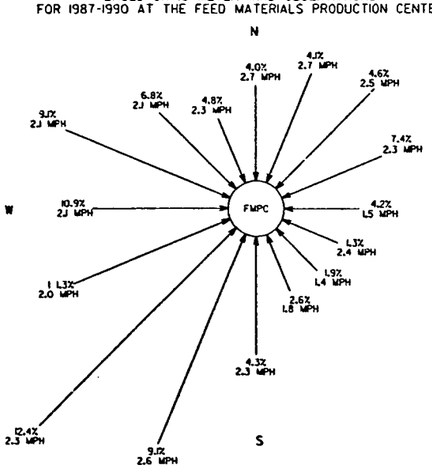
FMPC ORIGIN

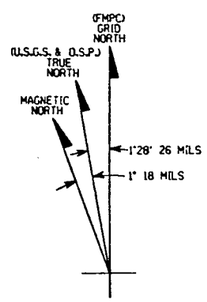
1. FMPC COORD: N 00-00 E 00-00
2. OHIO STATE PLANE COORD: N 492,734.673 E 1,176,578.523
3. USGS (APPROX): N 39°18'18" W 84°42'17"

WIND DIRECTION AND SPEED OCCURRENCES

BASED ON 10 METER WIND OBSERVATIONS FOR 1987-1990 AT THE FEED MATERIALS PRODUCTION CENTER

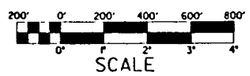
DATE: 7/25/91
REVISION NO: 1





LEGEND

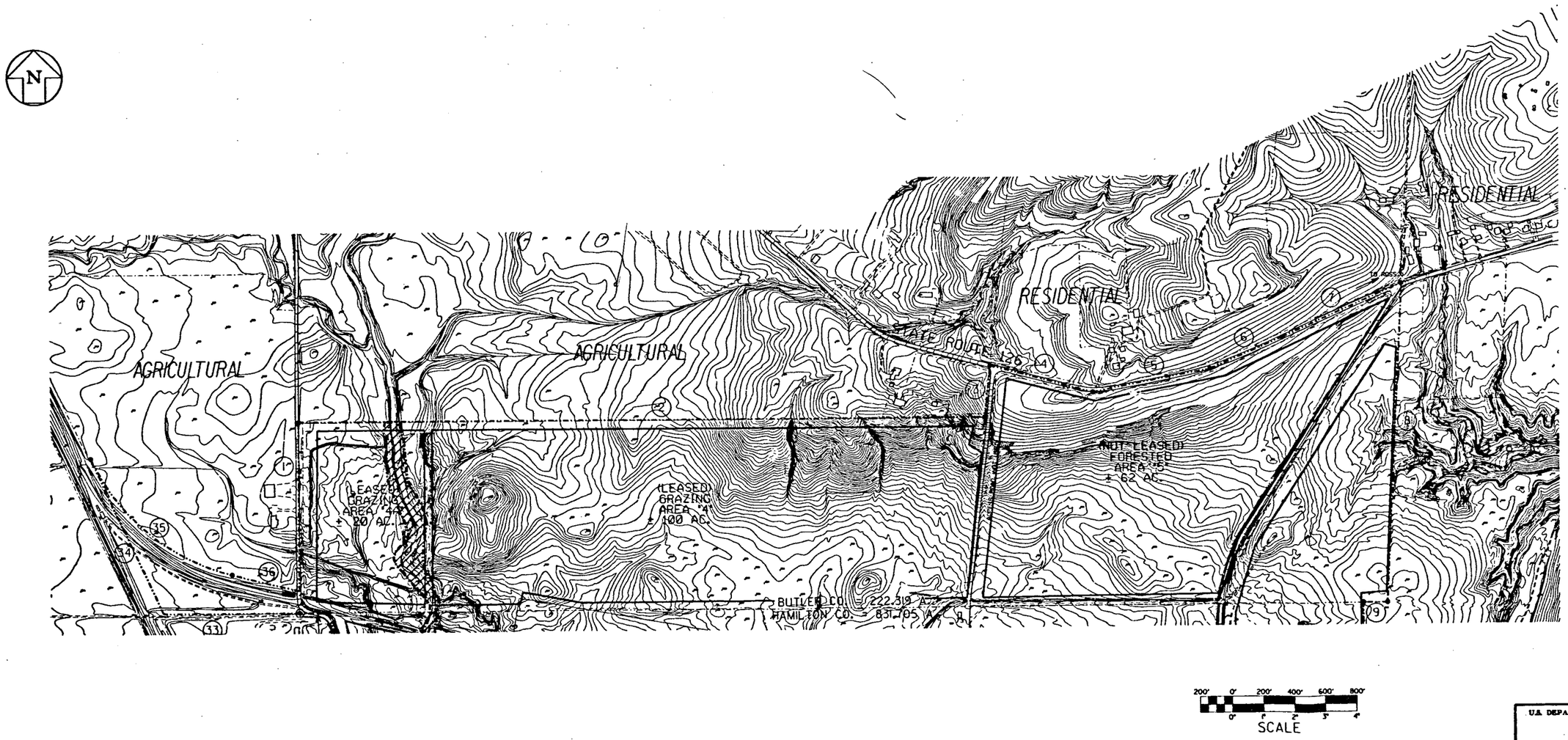
BOUNDARY LINE



U.S. DEPARTMENT OF ENERGY

FIGURE B-2
SECTION C

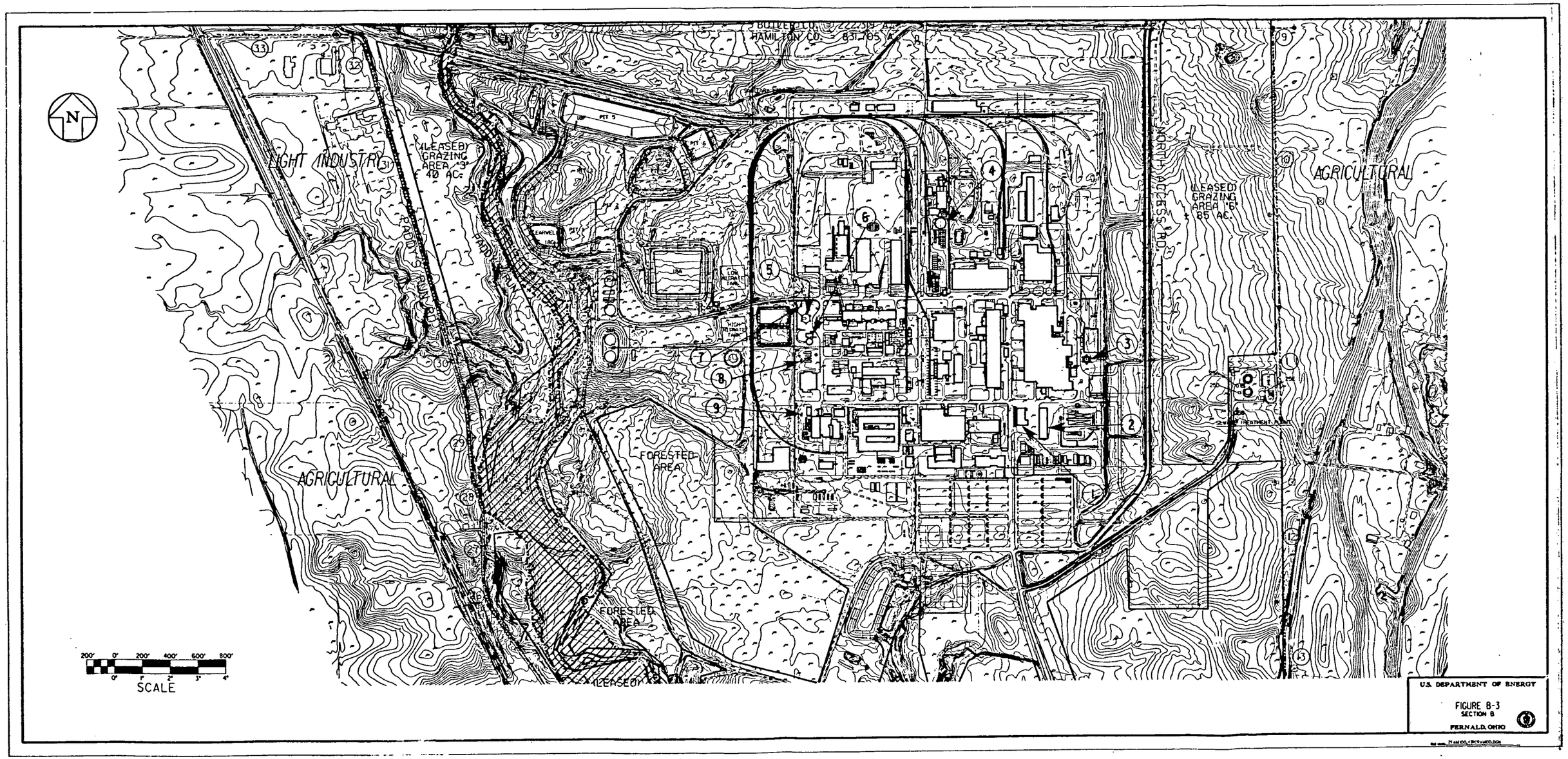
FERNALD, OHIO



U.S. DEPARTMENT OF ENERGY

FIGURE 8-3
SECTION A

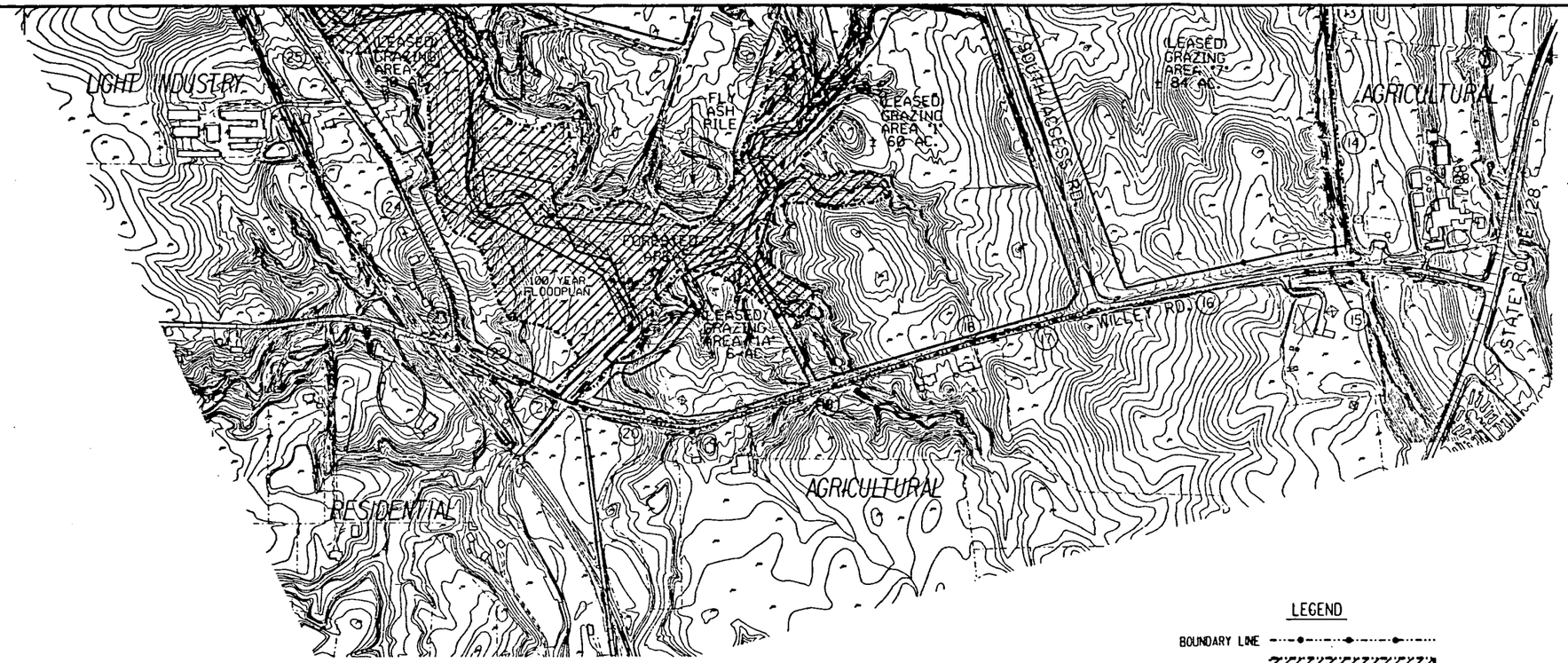
FERNALD, OHIO


N
LIGHT INDUSTRY
(LEASED) GRAZING AREA "3" 40 AC.
PADDY'S RUN
AGRICULTURAL
FORESTED AREA
FORESTED AREA
(LEASED)
NORTH ACCESS RD.
(LEASED) GRAZING AREA "6" 85 AC.
AGRICULTURAL
HAMILTON CO. = 831.705 A.
200' 0' 200' 400' 600' 800'
0' 1' 2' 3' 4'
SCALE
U.S. DEPARTMENT OF ENERGY
FIGURE 8-3
SECTION B
FERNALD, OHIO

FMPC ORIGIN

1. FMPC COORD: N 88+00 E 88+00
2. OHIO STATE PLANE COORD: N 482,784.678 E 1,376,578.563
3. USGS (APPROX): N 39°18'15" W 84°42'17"

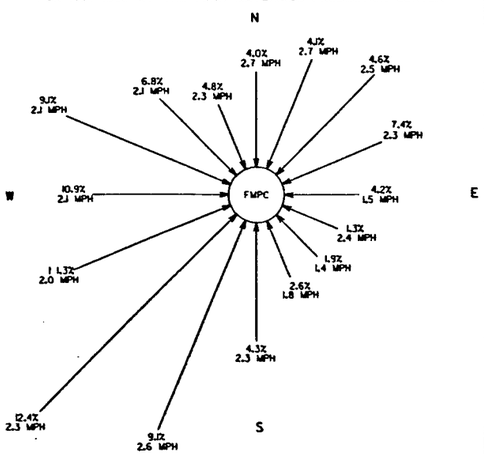
BOUNDARY DESCRIPTION			
NO.	BEARING & DISTANCE	NO.	BEARING & DISTANCE
1	N 0°07' W - 1207.33'	19	S 72°38' W - 1438.48'
2	N 90°00' E - 4357.77'	20	N 78°48' W - 580.97'
3	N 5°51' E - 330.00'	21	N 68°24' W - 356.69'
4	S 74°59' E - 672.50'	22	N 81°35' W - 300.00'
5	N 79°01' E - 751.00'	23	N 6°40' W - 271.40'
6	N 66°44' E - 500.00'	24	N 24°51' W - 773.40'
7	N 66°04' E - 831.30'	25	N 34°57' W - 1465.00'
8	S 2°36'35" W - 2030.85'	26	N 1 1°27' E - 172.05'
9	S 89°46'20" W - 152.00'	27	N 0°43' E - 581.50'
10	S 1°03'15" E - 2018.00'	28	N 19°12' W - 267.60'
11	S 0°32'15" E - 806.00'	29	N 3°40' W - 585.70'
12	S 0°46'58" E - 1621.47'	30	N 16°28' W - 700.60'
13	S 1°43'43" E - 217.00'	31	N 15°16' W - 2012.00'
14	S 5°58'43" E - 1204.50'	32	S 90°00' W - 182.52'
15	S 80°13' W - 231.25'	33	N 89°46'30" W - 864.60'
16	S 79°45' W - 1146.15'	34	N 25°03'30" W - 1003.10'
17	S 75°25' W - 532.90'	35	R=1349.69' - ARC=1203.49'
18	S 73°23' W - 200.10'	36	S 76°09'30" E - 436.50'

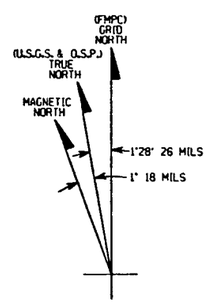


WIND DIRECTION AND SPEED OCCURRENCES

DATE: 7/25/91
REVISION NO: 1

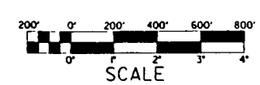
BASED ON 10 METER WIND OBSERVATIONS FOR 1987-1990 AT THE FEED MATERIALS PRODUCTION CENTER





FIRE CONTROL FACILITIES

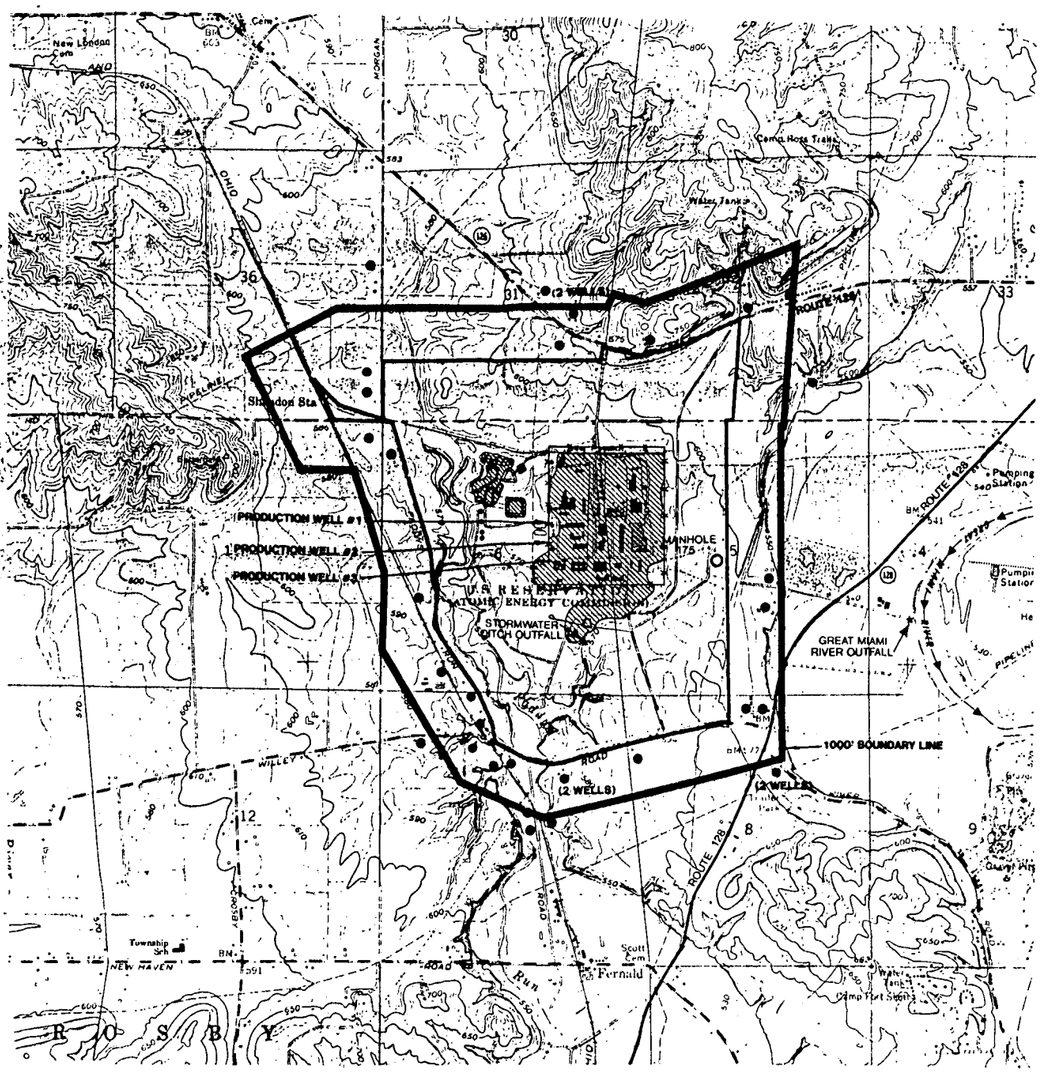
1. ENGINE HOUSE/GARAGE
2. HEAVY EQUIPMENT BLDG.
3. ELEVATED POTABLE STORAGE TANK
4. PROCESS WATER STORAGE TANK
5. ELEVATED WATER STORAGE TANK
6. PUMPHOUSE - HP FIRE PROTECTION
7. PRODUCTION WELL #1
8. PRODUCTION WELL #2
9. PRODUCTION WELL #3



U.S. DEPARTMENT OF ENERGY

FIGURE B-3
SECTION C

FERNALD, OHIO



LEGEND:

- ● RESIDENTIAL WATER WELLS **(APPROXIMATE LOCATIONS)**
- ★ NPDES DISCHARGE POINT
- ◄– RIVER FLOW
- | PROPERTY BOUNDARY
- – – – INTERMITTENT STREAM
- O MANHOLE
- ▨ **CONTROLLED STORMWATER RUNOFF AREAS**
- **X–X–X PRODUCTION AREA PERIMETER**

NOTE:

MAP SOURCE - USGS SHANDON QUADRANGLE REV 1974

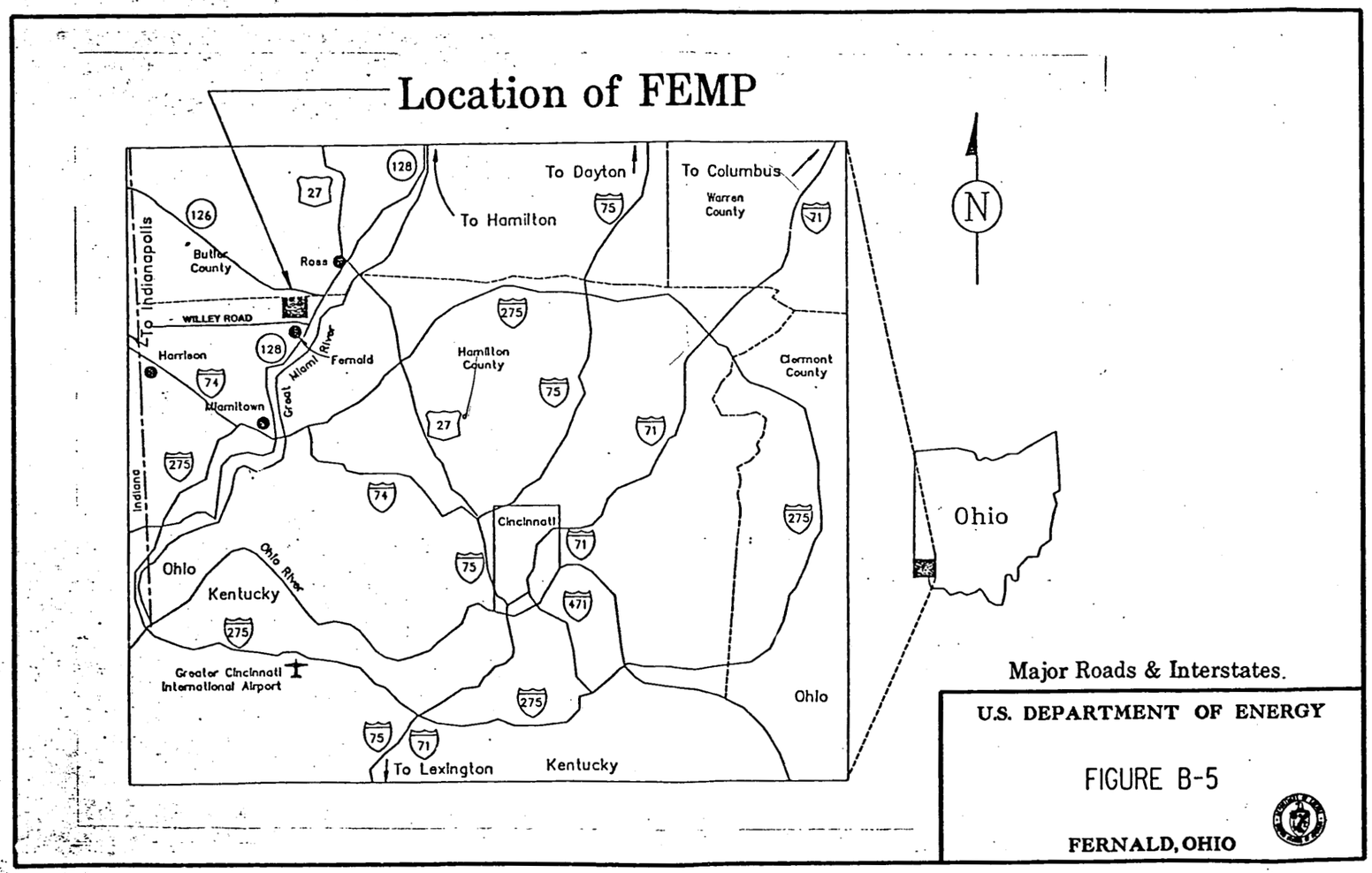
SCALE: 1" = 1000'

U.S. DEPARTMENT OF ENERGY

FIGURE B-4

FERNALD, OHIO

FILE NAME:



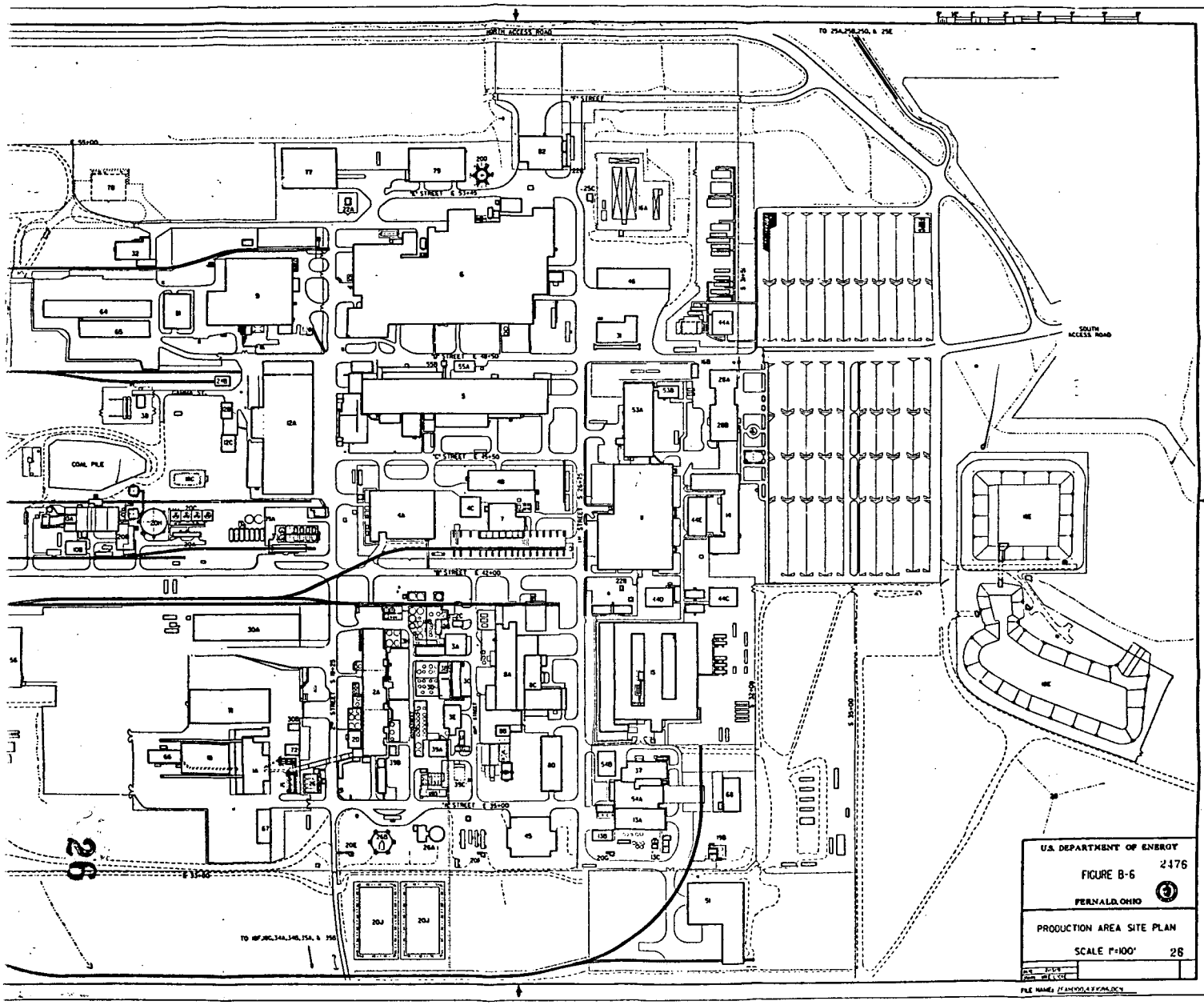
Major Roads & Interstates.

U.S. DEPARTMENT OF ENERGY

FIGURE B-5

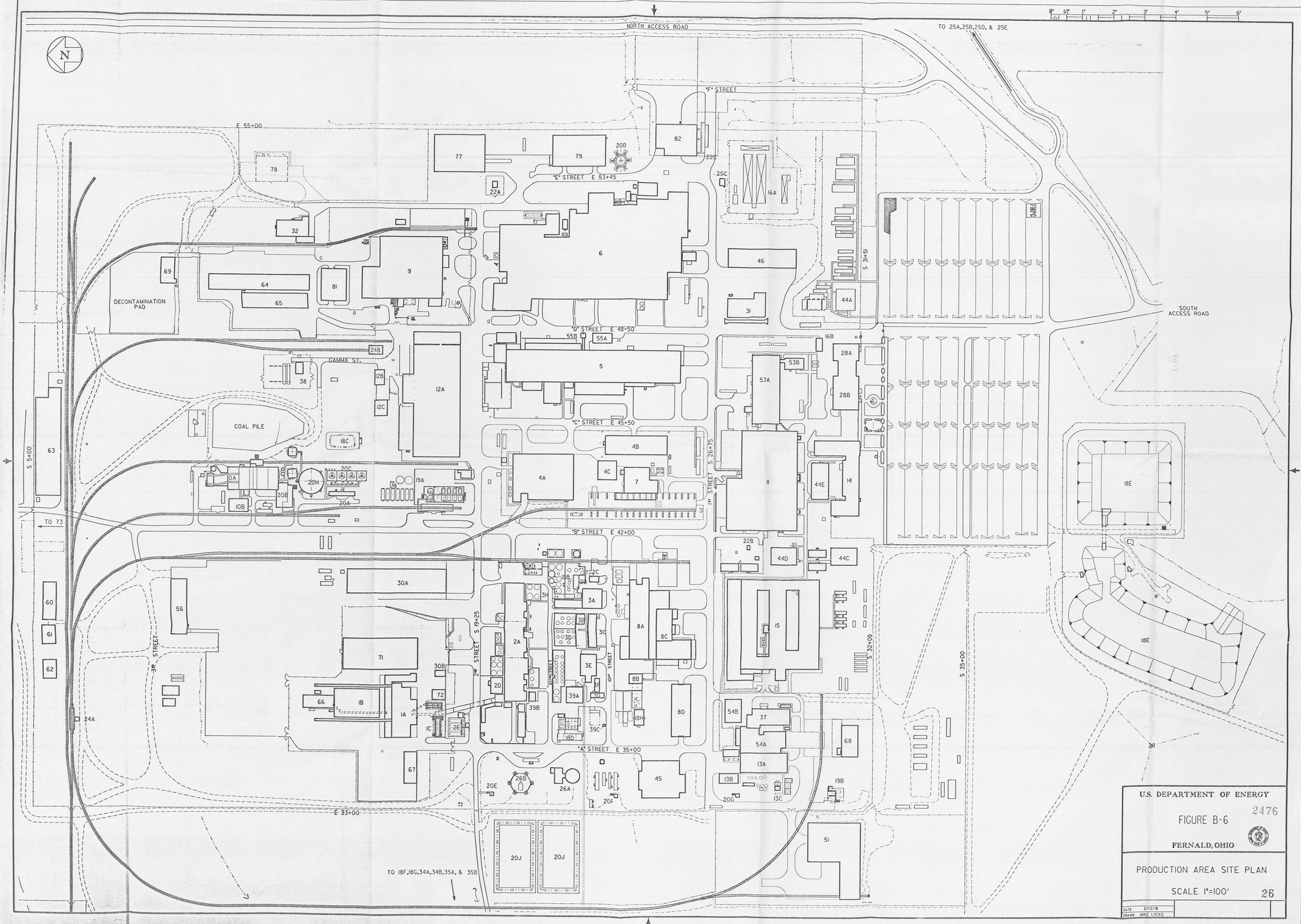
FERNALD, OHIO

FILE NAME: _____



FMPC BUILDING IDENTIFICATION

0D	GENERAL
1A	PREPARATION PLANT
1B	PLANT 1 STORAGE BLDG.
2A	ORE REFINERY PLANT
2B	LIME HANDLING BLDG.
1C	PLANT 1 SILOS
2C	BULK LIME HANDLING BLDG.
2D	METAL DISSOLVER BLDG.
2E	NFS STORAGE AND PUMP HOUSE
3A	MAINTENANCE BLDG.
3B	OZONE BLDG.
3C	CONTROL HOUSE
3D	HAR TOWERS
3E	HOT RAFFINATE BLDG.
3F	DIGESTION FUME RECOVERY
3G	REFRIGERATION BLDG.
3H	REFINERY SUMP
4A	GREEN SALT PLANT
4B	PLANT 4 WHSE.
4C	PLANT 4 MAINTENANCE BLDG.
5	METALS PRODUCTION PLANT
6	METALS FABRICATION PLANT
7	PLANT 7
8A	RECOVERY PLANT
8B	MAINTENANCE BLDG.
8C	ROTARY KILN/DRUM RECONDITIONING BLDG.
9	SPECIAL PRODUCTS PLANT
10A	BOILER PLANT
10B	BOILER PLANT MAINTENANCE BLDG.
11	SERVICE BLDG.
12A	MAIN MAINTENANCE BLDG.
12B	CYLINDER STORAGE BLDG.
12C	LUMBER STORAGE BLDG.
13A	PILOT PLANT WET SIDE
13B	PILOT PLANT MAINTENANCE BLDG.
13C	SUMP PUMP HOUSE
14	ADMINISTRATION BLDG.
15	LABORATORIES
16A	MAIN ELECTRICAL STATION
16B	ELECTRICAL SUBSTATION
18A	SURGE LAGOON
18B	GENERAL SUMP
18C	COAL PILE RUNOFF BASIN
18D	BIODENITRIFICATION TOWERS
18E	STORM WATER RETENTION BASIN
18F	PIT 5 SLUICE GATE
18G	CLEARWELL PUMP HOUSE
18H	BON EFFLUENT TREATMENT FACILITY
19A	MAIN METAL TANK FARM
19B	PILOT PLANT AMMONIA TANK FARM
20A	VALVE/CONTROL BLDG.
20B	FILTER/CHEMICAL BLDG.
20C	COOLING TOWERS
20D	ELEVATED POTABLE STORAGE TANK
20E	WELL HOUSE #1
20F	WELL HOUSE #2
20G	WELL HOUSE #3
20H	PROCESS WATER STORAGE TANK
20J	LIME SLURRY PITS
22A	GAS METER BLDG.
22B	SEWER LIFT STATION
22C	TRUCK SCALE
23	METEOROLOGICAL TOWER
24A	RAILROAD SCALE HOUSE
24B	RAILROAD ENGINE HOUSE
25A	CHLORINATION BLDG.
25B	MH PITS
25C	SEWAGE LIFT STATION BLDG.
25D	U.V. DISINFECTION BLDG.
25E	DIGESTER CONTROL BLDG.
26A	PUMP HOUSE-HP FIRE PROTECTION
26B	ELEVATED WATER STORAGE TANK
28A	SECURITY BLDG.
28B	HUMAN RESOURCES BLDG.
30A	CHEMICAL WHSE.
30B	DRUM STORAGE WHSE.
31	ENGINE HOUSE/GARAGE
32	MAGNESIUM STORAGE BLDG.
34A	K-65 STORAGE TANK (NORTH)
34B	K-65 STORAGE TANK (SOUTH)
35A	METAL OXIDE STORAGE TANK (NORTH)
35B	METAL OXIDE STORAGE TANK (SOUTH)
37	PILOT PLANT ANNEX
38	PROPANE STORAGE
39A	INCINERATOR BLDG.
39B	SHELTER STORAGE BLDG.
39C	INCINERATOR BLDG. SPRINKLER RISER HOUSE
44A	TRAILER COMPLEX 16-PLEX)
44B	
44C	TRAILER COMPLEX 17 PLEX 51
44D	TRAILER COMPLEX 17 PLEX 16
44E	TRAILER COMPLEX 00 PLEX)
45	RUST ENG. BLDG.
46	HEAVY EQUIPMENT BLDG.
51	6 to 4 REDUCTION FACILITY #2
53A	U.R.S. &T. BLDG.
53B	IN-VIVO BLDG.
54A	6 to 4 REDUCTION FACILITY #1
54B	PILOT PLANT WHSE.
55A	SLAG RECYCLING BLDG.
55B	SLAG RECYCLING PIT/ELEVATOR
56	CP STORAGE WHSE.
60	QUONSET HUT #1
61	QUONSET HUT #2
62	QUONSET HUT #3
63	KC-2 WHSE.
64	THORIUM WHSE.
65	(OLD) PLANT 5 WHSE.
66	DRUM RECONDITIONING BLDG.
67	PLANT 1 THORIUM WHSE.
68	PILOT PLANT WHSE.
69	DECONTAMINATION BLDG.
71	GENERAL IN-PROCESS STORAGE WHSE.
72	DRUM STORAGE BLDG.
73	FIRE BRIGADE TRAINING CENTER BLDG.
77	FINISHED PRODUCT WHSE.
78	D & D BLDG. (NOT CONSTR.)
79	PLANT 6 WHSE.
80	PLANT 8 WHSE.
81	PLANT 9 WHSE.
82	RECEIVING/INCOMING MATL'S. INSPECTION BLDG.



FMPC BUILDING IDENTIFICATION

00	GENERAL
1A	PREPARATION PLANT
1B	PLANT 1 STORAGE BLDG.
2A	ORE REFINERY PLANT
2B	LIME HANDLING BLDG.
1C	PLANT 1 SILOS
2C	BULK LIME HANDLING BLDG.
2D	METAL DISSOLVER BLDG.
2E	NFS STORAGE AND PUMP HOUSE
3A	MAINTENANCE BLDG.
3B	OZONE BLDG.
3C	CONTROL HOUSE
3D	NAR TOWERS
3E	HOT RAFFINATE BLDG.
3F	DIGESTION FUME RECOVERY
3G	REFRIGERATION BLDG.
3H	REFINERY SUMP
4A	GREEN SALT PLANT
4B	PLANT 4 WHSE.
4C	PLANT 4 MAINTENANCE BLDG.
5	METALS PRODUCTION PLANT
6	METALS FABRICATION PLANT
7	PLANT 7
8A	RECOVERY PLANT
8B	MAINTENANCE BLDG.
8C	ROTARY KILN/DRUM RECONDITIONING BLDG.
9	SPECIAL PRODUCTS PLANT
10A	BOILER PLANT
10B	BOILER PLANT MAINTENANCE BLDG.
11	SERVICE BLDG.
12A	MAIN MAINTENANCE BLDG.
12B	CYLINDER STORAGE BLDG.
12C	LUMBER STORAGE BLDG.
13A	PILOT PLANT WET SIDE
13B	PILOT PLANT MAINTENANCE BLDG.
13C	SUMP PUMP HOUSE
14	ADMINISTRATION BLDG.
15	LABORATORIES
16A	MAIN ELECTRICAL STATION
16B	ELECTRICAL SUBSTATION
18A	SURGE LAGOON
18B	GENERAL SUMP
18C	COAL PILE RUNOFF BASIN
18D	BIODENITRIFICATION TOWERS
18E	STORM WATER RETENTION BASIN
18F	PIT 5 SLUICE GATE
18G	CLEARWELL PUMP HOUSE
18H	BDN EFFLUENT TREATMENT FACILITY
19A	MAIN METAL TANK FARM
19B	PILOT PLANT AMMONIA TANK FARM
20A	VALVE/CONTROL BLDG.
20B	FILTER/CHEMICAL BLDG.
20C	COOLING TOWERS
20D	ELEVATED POTABLE STORAGE TANK
20E	WELL HOUSE #1
20F	WELL HOUSE #2
20G	WELL HOUSE #3
20H	PROCESS WATER STORAGE TANK
20J	LIME SLURRY PITS
22A	GAS METER BLDG.
22B	SEWER LIFT STATION
22C	TRUCK SCALE
23	METEOROLOGICAL TOWER
24A	RAILROAD SCALE HOUSE
24B	RAILROAD ENGINE HOUSE
25A	CHLORINATION BLDG.
25B	MH #175
25C	SEWAGE LIFT STATION BLDG.
25D	U.V. DISINFECTION BLDG.
25E	DIGESTER CONTROL BLDG.
26A	PUMP HOUSE-HP FIRE PROTECTION
26B	ELEVATED WATER STORAGE TANK
28A	SECURITY BLDG.
28B	HUMAN RESOURCES BLDG.
30A	CHEMICAL WHSE.
30B	DRUM STORAGE WHSE.
31	ENGINE HOUSE/GARAGE
32	MAGNESIUM STORAGE BLDG.
34A	K-65 STORAGE TANK (NORTH)
34B	K-65 STORAGE TANK (SOUTH)
35A	METAL OXIDE STORAGE TANK (NORTH)
35B	METAL OXIDE STORAGE TANK (SOUTH)
37	PILOT PLANT ANNEX
38	PROPANE STORAGE
39A	INCINERATOR BLDG.
39B	SHELTER STORAGE BLDG.
39C	INCINERATOR BLDG. SPRINKLER RISER HOUSE
44A	TRAILER COMPLEX (6-PLEX)
44B	
44C	TRAILER COMPLEX (7 PLEX S)
44D	TRAILER COMPLEX (7 PLEX N)
44E	TRAILER COMPLEX (10 PLEX)
45	RUST ENG. BLDG.
46	HEAVY EQUIPMENT BLDG.
51	6 to 4 REDUCTION FACILTY #2
53A	I.R.S. & T. BLDG.
53B	IN-VIVO BLDG.
54A	6 to 4 REDUCTION FACILITY #1
54B	PILOT PLANT WHSE.
55A	SLAG RECYCLING BLDG.
55B	SLAG RECYCLING PIT/ELEVATOR
56	CP STORAGE WHSE.
60	QUONSET HUT #1
61	QUONSET HUT #2
62	QUONSET HUT #3
63	KC-2 WHSE.
64	THORIUM WHSE.
65	(OLD) PLANT 5 WHSE.
66	DRUM RECONDITIONING BLDG.
67	PLANT 1 THORIUM WHSE.
68	PILOT PLANT WHSE.
69	DECONTAMINATION BLDG.
71	GENERAL IN-PROCESS STORAGE WHSE.
72	DRUM STORAGE BLDG.
73	FIRE BRIGADE TRAINING CENTER BLDG.
77	FINISHED PRODUCT WHSE.
78	D & D BLDG. (NOT CONSTR.)
79	PLANT 6 WHSE.
80	PLANT 8 WHSE.
81	PLANT 9 WHSE.
82	RECEIVING/INCOMING MAT'LS. INSPECTION BLDG.

U.S. DEPARTMENT OF ENERGY

2476

FIGURE B-6

FERNALD, OHIO

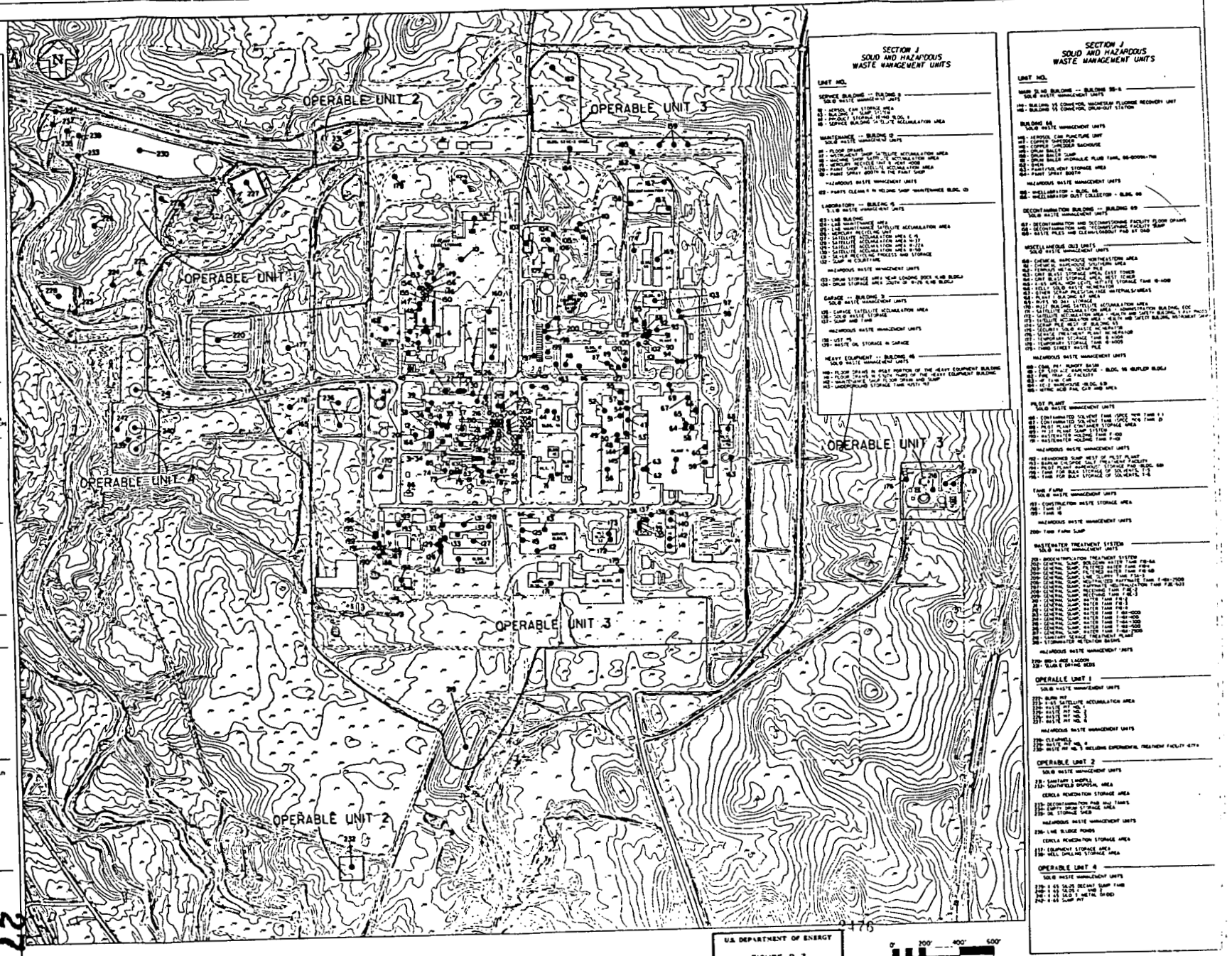
PRODUCTION AREA SITE PLAN

SCALE 1"=100'

26

DATE 2/13/91
DRAWN MIKE LOCKE

FILE NAME: ZFAE100,43FIGB6.DGN


OPERABLE UNIT 1
OPERABLE UNIT 2
OPERABLE UNIT 3
OPERABLE UNIT 4
SECTION J
SOLID AND HAZARDOUS
WASTE MANAGEMENT UNITS
UNIT NO.
SERVICE BUILDING -- BUILDING 2
SOLID WASTE MANAGEMENT UNITS
MAINTENANCE -- BUILDING 9
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
LABORATORY -- BUILDING 6
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
GARAGE -- BUILDING 3
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
HEAVY EQUIPMENT -- BUILDING 46
SOLID WASTE MANAGEMENT UNITS
SECTION J
SOLID AND HAZARDOUS
WASTE MANAGEMENT UNITS
UNIT NO.
BUILDING 66
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
DECONTAMINATION BUILDING -- BUILDING 69
SOLID WASTE MANAGEMENT UNITS
MISCELLANEOUS (MU) UNITS
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
PILOT PLANT
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
TANK FARM
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
WASTEWATER TREATMENT SYSTEM
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
OPERABLE UNIT 1
SOLID WASTE MANAGEMENT UNITS
HAZARDOUS WASTE MANAGEMENT UNITS
OPERABLE UNIT 2
SOLID WASTE MANAGEMENT UNITS
CERCLA REMEDIATION STORAGE AREA
HAZARDOUS WASTE MANAGEMENT UNITS
CERCLA REMEDIATION STORAGE AREA
OPERABLE UNIT 4
SOLID WASTE MANAGEMENT UNITS
0' 200' 400' 600'
SCALE
U.S. DEPARTMENT OF ENERGY
FIGURE B-7
FERNALD, OHIO
FILE NAME

2476

SECTION J
SOLID AND HAZARDOUS WASTE MANAGEMENT UNITS

UNIT NO. OPERABLE UNIT 3

PLANT I -- SAMPLING PLANT
SOLID WASTE MANAGEMENT UNITS

1 - COPPER METAL SCRAP PILE
2 - MAGNESIUM FLUORIDE TITAN MILL
3 - PLANT I ORE SILOS
4 - PLANT I SAMPLE LINE
5 - PLANT I SUMP SYSTEM
6 - PLANT I THAW TUNNEL
7 - SAFE GEOMETRY DIGESTION SUMP
8 - SLOP STORAGE TANK

HAZARDOUS WASTE MANAGEMENT UNITS

9 - DETREX STILL
10 - PLANT I PAD
11 - PLANT I STORAGE BLDG. (BLDG. 67)

PLANT 2/3 -- REFINERY
SOLID WASTE MANAGEMENT UNITS

12 - INCINERATOR BUILDING SATELLITE ACCUMULATION AREA
13 - MAINTENANCE SHOP FLOOR DRAINS
14 - PLANT 2/3 SUMP SYSTEM
15 - RAFFINATE STORAGE TANK F1-400
16 - RAFFINATE STORAGE TANK F1-401
17 - RAFFINATE STORAGE TANK F1-402
18 - RAFFINATE STORAGE TANK F1-403
19 - REFINERY SUMP, FILTER WASH TANK F1-608
20 - REFINERY SUMP, FILTER WASH TANK F1-609
21 - REFINERY SUMP, FILTER WASH TANK F1-610
22 - REFINERY SUMP, FILTER WASH TANK F2E-601
23 - REFINERY SUMP, FILTER WASH TANK F2E-602
24 - REFINERY SUMP, THICKENER SLURRY TANK F1-612
25 - SATELLITE ACCUMULATION AREA (CURRENT)
26 - SATELLITE ACCUMULATION AREA (PRIOR)
27 - TRIBUTYL PHOSPHATE/KEROSENE BLEND TANK 17A
28 - TRIBUTYL PHOSPHATE/KEROSENE BLEND TANK 17B
29 - TRIBUTYL PHOSPHATE/KEROSENE BLEND TANK 17C
30 - TRIBUTYL PHOSPHATE/KEROSENE HOLDING TANK F1-512
31 - UNH STORAGE TANK F1-310
32 - UNH STORAGE TANK F1-311
33 - UNH STORAGE TANK F1-312
34 - UNH STORAGE TANK F1-317
35 - URANYL NITRATE TANK F1-405
36 - URANYL NITRATE RAFFINATE TANK F3E-405

HAZARDOUS WASTE MANAGEMENT UNITS

37 - NAR SYSTEM COMPONENTS
38 - TRANE THERMAL LIQUID INCINERATOR
39 - URANYL NITRATE TANKS (DIGESTION AREA)
40 - URANYL NITRATE TANKS (NFS STORAGE AREA)
41 - URANYL NITRATE TANKS (NORTH OF PLANT 2)
42 - URANYL NITRATE TANKS (SOUTHEAST OF PLANT 2)

PLANT 4 -- GREEN SALT PLANT
SOLID WASTE MANAGEMENT UNITS

43 - PLANT 4 SUMP SYSTEM

HAZARDOUS WASTE MANAGEMENT UNITS

44 - DRUMMED HF RESIDUE/ASSOCIATED STORAGE AREAS INSIDE PLANT 4
45 - DRUMMED HF RESIDUE/ASSOCIATED STORAGE AREAS N.W. OF PLANT 4
46 - DRUMMED HF RESIDUE/ASSOCIATED STORAGE AREAS S. OF COOLING TOWERS

PLANT 5 -- METALS PRODUCTION PLANT
SOLID WASTE MANAGEMENT UNITS

47 - HOFFMAN DUST COLLECTOR SYSTEM 101
48 - HOFFMAN DUST COLLECTOR SYSTEM 256
49 - HOFFMAN DUST COLLECTOR SYSTEM 258
50 - HOFFMAN DUST COLLECTOR SYSTEM 260
51 - HOFFMAN DUST COLLECTOR SYSTEM 261
52 - HOFFMAN DUST COLLECTOR SYSTEM 262
53 - MAINTENANCE SHOP FLOOR DRAIN AND SUMP
54 - MAINTENANCE SHOP STEAM BOOTH
55 - METALS PLANT SATELLITE ACCUMULATION AREA
56 - PLANT 5 SUMP SYSTEM

HAZARDOUS WASTE MANAGEMENT UNITS

57 - HILCO OIL RECOVERY

PLANT 6 -- METALS FABRICATION PLANT
SOLID WASTE MANAGEMENT UNITS

58 - ELECTROSTATIC DUST COLLECTOR SYSTEM, NORTH DC
59 - ELECTROSTATIC DUST COLLECTOR SYSTEM, SOUTH DC
60 - OPERATIONS AREA SATELLITE ACCUMULATION AREA
61 - PLANT 6 SUMP SYSTEM
62 - SPENT COOLING WATER FOR NU-SAL HEAT TREATMENT TANK #1
63 - SPENT COOLING WATER FOR NU-SAL HEAT TREATMENT TANK #2
64 - SPENT NITRIC ACID STORAGE TANK F6-3
65 - UNDERGROUND STORAGE TANK (UST) #14
66 - WASTEWATER STORAGE TANK F6E-700
67 - WATER TREATMENT SATELLITE ACCUMULATION AREA

HAZARDOUS WASTE MANAGEMENT UNITS

68 - PLANT 6 WAREHOUSE (BLDG. 79)
69 - STORAGE PAD NORTH OF PLANT 6

PLANT 7 -- URANIUM HEXAFLUORIDE REDUCTION PLANT
SOLID WASTE MANAGEMENT UNITS

70 - ABANDONED SUMP TANK 07 - UNDESIGNATED
71 - HYDROGEN FLUORIDE SCRUBBER AREA SUMP #0817

PLANT 8 -- SCRAP RECOVERY PLANT
SOLID WASTE MANAGEMENT UNITS

72 - EAST OLIVER FILTER
73 - EIMCO FILTER (EAST)
74 - EIMCO FILTER (WEST)
75 - FILTRATE TANK #08-A005-TNK
76 - FILTRATE TANK #08-A006-TNK
77 - FILTRATE TANK #08-A007-TNK
78 - OXIDATION FURNACE #2
79 - PLANT 8 SUMP SYSTEM
80 - ROTARY KILN
81 - ROTEX SCREENING UNIT

HAZARDOUS WASTE MANAGEMENT UNITS

82 - BOX FURNACE
83 - OXIDATION FURNACE #1
84 - PLANT 8 EAST DRUM STORAGE PAD
85 - PLANT 8 WEST DRUM STORAGE PAD
86 - PLANT 8 WAREHOUSE (BLDG. 80)
87 - PRIMARY CALCINER

PLANT 9 -- SPECIAL PRODUCTS PLANT
SOLID WASTE MANAGEMENT UNITS

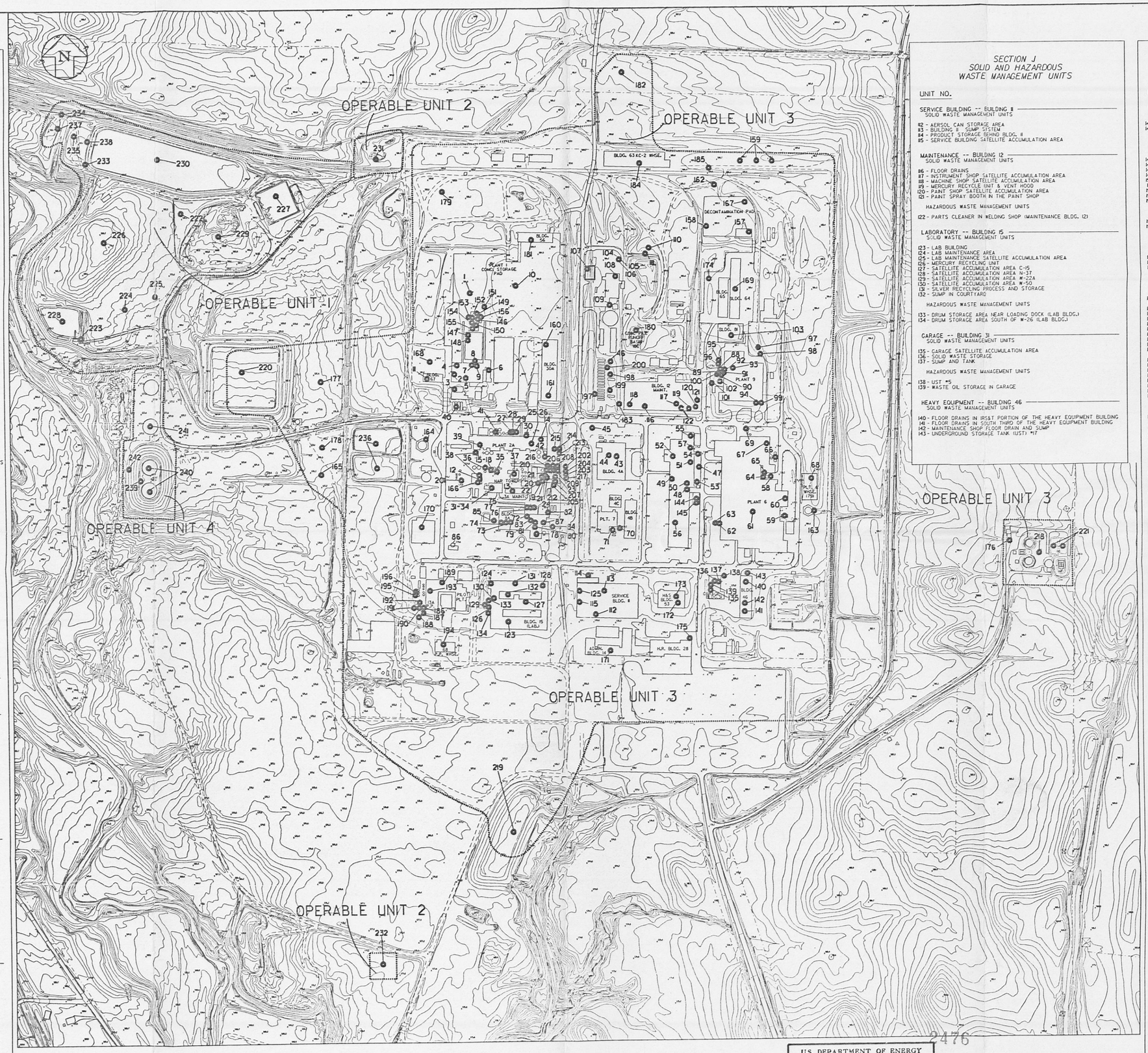
88 - DILUTE HYDROFLUORIC ACID (DHF) DUMPSTER TANK (SPCC 21 EAST)
89 - FILTRATE WATER SUMP TANK - F1-1
90 - FILTRATE WATER SUMP TANK - F1-2
91 - FILTRATE WATER SUMP TANK - F1-3
92 - LIME SLURRY DUMPSTER TANK (SPCC 21 WEST)
93 - PLANT 9 SUMP SYSTEM
94 - SPENT NITRIC ACID TANK (SPCC 20A WEST)
95 - SPENT NITRIC ACID TANK (SPCC 44 TANK 1)
96 - SPENT NITRIC ACID TANK (SPCC 44 TANK 2)
97 - UNDERGROUND STORAGE TANK (UST) #7
98 - USED CUTTING OIL TANK (SPCC 25)
99 - WASTEWATER STORAGE TANK F-9W-700
100 - WASTEWATER STORAGE TANK 2429 (SPCC 23)
101 - WATER TREATMENT AMMONIA TANK (SPCC 24)
102 - WEST PORTABLE OIL/WATER RESIDUE TANK (SPCC 15)

HAZARDOUS WASTE MANAGEMENT UNITS

103 - PLANT 9 WAREHOUSE (BLDG. 81)

BOILER PLANT -- BUILDING 10
SOLID WASTE MANAGEMENT UNITS

104 - ASH RECEIVING TANK, 10-B004A
105 - ASH RECEIVING TANK, 10-B004B
106 - ASH SYSTEM, AIR WASH SPRAYER, 10-B004C
107 - BOILER PLANT MAINTENENCE SATELLITE ACCUMULATION AREA
108 - BOILER PLANT SATELLITE ACCUMULATION AREA
109 - CHEMICAL FEED SUMP
110 - GRAPHITE BURNER
111 - OIL BURNER



SECTION J
SOLID AND HAZARDOUS WASTE MANAGEMENT UNITS

UNIT NO.

SERVICE BUILDING -- BUILDING 11
SOLID WASTE MANAGEMENT UNITS

112 - AEROSOL CAN STORAGE AREA
113 - BUILDING 11 SUMP SYSTEM
114 - PRODUCT STORAGE BEHIND BLDG. 11
115 - SERVICE BUILDING SATELLITE ACCUMULATION AREA

MAINTENANCE -- BUILDING 12
SOLID WASTE MANAGEMENT UNITS

116 - FLOOR DRAINS
117 - INSTRUMENT SHOP SATELLITE ACCUMULATION AREA
118 - MACHINE SHOP SATELLITE ACCUMULATION AREA
119 - MERCURY RECYCLE UNIT & VENT HOOD
120 - PAINT SHOP SATELLITE ACCUMULATION AREA
121 - PAINT SPRAY BOOTH IN THE PAINT SHOP

HAZARDOUS WASTE MANAGEMENT UNITS

122 - PARTS CLEANER IN WELDING SHOP (MAINTENANCE BLDG. 12)

LABORATORY -- BUILDING 15
SOLID WASTE MANAGEMENT UNITS

123 - LAB BUILDING
124 - LAB MAINTENANCE AREA
125 - LAB MAINTENANCE SATELLITE ACCUMULATION AREA
126 - MERCURY RECYCLING UNIT
127 - SATELLITE ACCUMULATION AREA C-15
128 - SATELLITE ACCUMULATION AREA N-31
129 - SATELLITE ACCUMULATION AREA W-22A
130 - SATELLITE ACCUMULATION AREA W-50
131 - SILVER RECYCLING PROCESS AND STORAGE
132 - SUMP IN COURTYARD

HAZARDOUS WASTE MANAGEMENT UNITS

133 - DRUM STORAGE AREA NEAR LOADING DOCK (LAB BLDG.)
134 - DRUM STORAGE AREA SOUTH OF W-26 (LAB BLDG.)

GARAGE -- BUILDING 31
SOLID WASTE MANAGEMENT UNITS

135 - GARAGE SATELLITE ACCUMULATION AREA
136 - SOLID WASTE STORAGE
137 - SUMP AND TANK

HAZARDOUS WASTE MANAGEMENT UNITS

138 - UST #5
139 - WASTE OIL STORAGE IN GARAGE

HEAVY EQUIPMENT -- BUILDING 46
SOLID WASTE MANAGEMENT UNITS

140 - FLOOR DRAINS IN IRSST PORTION OF THE HEAVY EQUIPMENT BUILDING
141 - FLOOR DRAINS IN SOUTH THIRD OF THE HEAVY EQUIPMENT BUILDING
142 - MAINTENANCE SHOP FLOOR DRAIN AND SUMP
143 - UNDERGROUND STORAGE TANK (UST) #17

SECTION J
SOLID AND HAZARDOUS WASTE MANAGEMENT UNITS

UNIT NO.

MAIN SLAG BUILDING -- BUILDING 55-A
SOLID WASTE MANAGEMENT UNITS

144 - BUILDING 55 CONVEYOR, MAGNESIUM FLUORIDE RECOVERY UNIT
145 - BUILDING 55 CONVEYOR, DRUM-OUT STATION

BUILDING 66
SOLID WASTE MANAGEMENT UNITS

146 - AEROSOL CAN PUNCTURE UNIT
147 - COPPER SHREDDER
148 - COPPER SHREDDER BAGHOUSE
149 - DRUM BALER
150 - DRUM BALER SUMP
151 - DRUM BALER HYDRAULIC FLUID TANK, 66-D009A-TNK
152 - OVEN
153 - PAINT/SOLVENT STORAGE AREA
154 - PAINT SPRAY BOOTH

HAZARDOUS WASTE MANAGEMENT UNITS

155 - WHEELABRATOR - BLDG. 66
156 - WHEELABRATOR DUST COLLECTOR - BLDG. 66

DECONTAMINATION BUILDING -- BUILDING 69
SOLID WASTE MANAGEMENT UNITS

157 - DECONTAMINATION AND DECOMMISSIONING FACILITY FLOOR DRAINS
158 - DECONTAMINATION AND DECOMMISSIONING FACILITY SUMP
159 - WASTE PILES AND CLEAN/LOADOUT PAD AT D&D

MISCELLANEOUS OU3 UNITS
SOLID WASTE MANAGEMENT UNITS

160 - CHEMICAL WAREHOUSE NORTHEASTERN AREA
161 - CHEMICAL WAREHOUSE SOUTHERN AREA
162 - FERROUS METAL SCRAP PILE
163 - GRIT BLAST STORAGE AREA, EAST TOWER
164 - GRIT BLAST STORAGE AREA, WEST TOWER
165 - K-65 AREA, HIGH LEVEL NITRATE STORAGE TANK 18-A010
166 - FELLY SOLID WASTE INCINERATOR
167 - OTHER SCRAP PILES/SALVAGE MATERIALS/AREAS
168 - PLANT 1 BUILDING 67 AREA
169 - RUFS 90 DAY STORAGE
170 - PILOT BUILDING SATELLITE ACCUMULATION AREA
171 - SATELLITE ACCUMULATION AREA - ADMINISTRATION BUILDING, EOC
172 - SATELLITE ACCUMULATION AREA - HEALTH AND SAFETY BUILDING, X-RAY/PHOTO
173 - SATELLITE ACCUMULATION AREA - HEALTH AND SAFETY BUILDING, INSTRUMENT SHOP
174 - SCRAP PILE WEST OF BUILDING 65
175 - SECURITY SOLID WASTE INCINERATOR
176 - SEWAGE TREATMENT PLANT INCINERATOR
177 - TEMPORARY STORAGE TANK 18-A004
178 - TEMPORARY STORAGE TANK 18-A005
179 - THIRD STREET WASTE PILE

HAZARDOUS WASTE MANAGEMENT UNITS

180 - COAL PILE RUNOFF BASIN
181 - CP STORAGE WAREHOUSE - BLDG. 56 (BUTLER BLDG.)
182 - FIRE TRAINING FACILITY
183 - HF TANK CAR
184 - KC-2 WAREHOUSE (BLDG. 63)
185 - NITRIC ACID RAIL CAR AND AREA

PILOT PLANT
SOLID WASTE MANAGEMENT UNITS

186 - CONTAMINATED SOLVENT TANK (SPCC #10B TANK 1)
187 - CONTAMINATED SOLVENT TANK (SPCC #10B TANK 2)
188 - PILOT PLANT CONTAINER STORAGE AREA
189 - PILOT PLANT SUMP SYSTEM
190 - WASTEWATER HOLDING TANK F-100
191 - WASTEWATER HOLDING TANK F-101

HAZARDOUS WASTE MANAGEMENT UNITS

192 - ABANDONED SUMP WEST OF PILOT PLANT
193 - BARIUM CHLORIDE SALT TREATMENT FACILITY
194 - PILOT PLANT WAREHOUSE STORAGE PAD (BLDG. 68)
195 - TANK FOR BULK STORAGE OF SOLVENTS, T-5
196 - TANK FOR BULK STORAGE OF SOLVENTS, T-6

TANK FARM
SOLID WASTE MANAGEMENT UNITS

197 - CONSTRUCTION WASTE STORAGE AREA
198 - TANK 17
199 - TANK 18

HAZARDOUS WASTE MANAGEMENT UNITS

200 - TANK FARM SUMP

WASTEWATER TREATMENT SYSTEM
SOLID WASTE MANAGEMENT UNITS

201 - BIODENITRIFICATION TREATMENT SYSTEM
202 - GENERAL SUMP, BOILDOWN WATER TANK F18-6A
203 - GENERAL SUMP, FILTERED WATER TANK F18-1
204 - GENERAL SUMP, FILTERED WATER TANK F18-6B
205 - GENERAL SUMP, LIME SLURRY TANK F1A-3
206 - GENERAL SUMP, NEUTRALIZED RAFFINATE TANK T-18X-2500
207 - GENERAL SUMP, RAFFINATE NEUTRALIZATION TANK F2E-603
208 - GENERAL SUMP, RECEIVING TANK F18E-2
209 - GENERAL SUMP, RECEIVING TANK F18E-3
210 - GENERAL SUMP, WATER TANK F18-2
211 - GENERAL SUMP, WATER TANK F18-3
212 - GENERAL SUMP, WATER TANK F18-4
213 - GENERAL SUMP, WATER TANK T-18X-1000
214 - GENERAL SUMP, WATER TANK T-18X-100
215 - GENERAL SUMP, WATER TANK T-18X-1300
216 - GENERAL SUMP, WATER TANK T-18X-1500
217 - GENERAL SUMP, WATER TANK T-18X-2900
218 - SANITARY SEWAGE TREATMENT PLANT
219 - STORMWATER RETENTION BASINS

HAZARDOUS WASTE MANAGEMENT UNITS

220 - BIO-SIRGE LAGOON
221 - SLUDGE DRYING BEDS

OPERAELE UNIT 1
SOLID WASTE MANAGEMENT UNITS

222 - BURN PIT
223 - K-65 SATELLITE ACCUMULATION AREA
224 - WASTE PIT NO. 1
225 - WASTE PIT NO. 2
226 - WASTE PIT NO. 3
227 - WASTE PIT NO. 6

HAZARDOUS WASTE MANAGEMENT UNITS

228 - CLEARWELL
229 - WASTE PIT NO. 4
230 - WASTE PIT NO. 5 (INCLUDING EXPERMENTAL TREATMENT FACILITY (ETF))

OPERABLE UNIT 2
SOLID WASTE MANAGEMENT UNITS

231 - SANITARY LANDFILL
232 - SOUTHFIELD DISPOSAL AREA

CERCLA REMEDIATION STORAGE AREA

233 - DECONTAMINATION PAD AND TANKS
234 - EMPTY DRUM STORAGE AREA
235 - OIL STORAGE SHED

HAZARDOUS WASTE MANAGEMENT UNITS

236 - LIME SLUDGE PONDS

CERCLA REMEDIATION STORAGE AREA

237 - EQUIPMENT STORAGE AREA
238 - WELL DRILLING STORAGE AREA

OPERABLE UNIT 4
SOLID WASTE MANAGEMENT UNITS

239 - K-65 SILOS DECANT SUMP TANK
240 - K-65 SILOS 1 AND 2
241 - K-65 SILO 3 (METAL OXIDE)
242 - K-65 SUMP PIT

2476

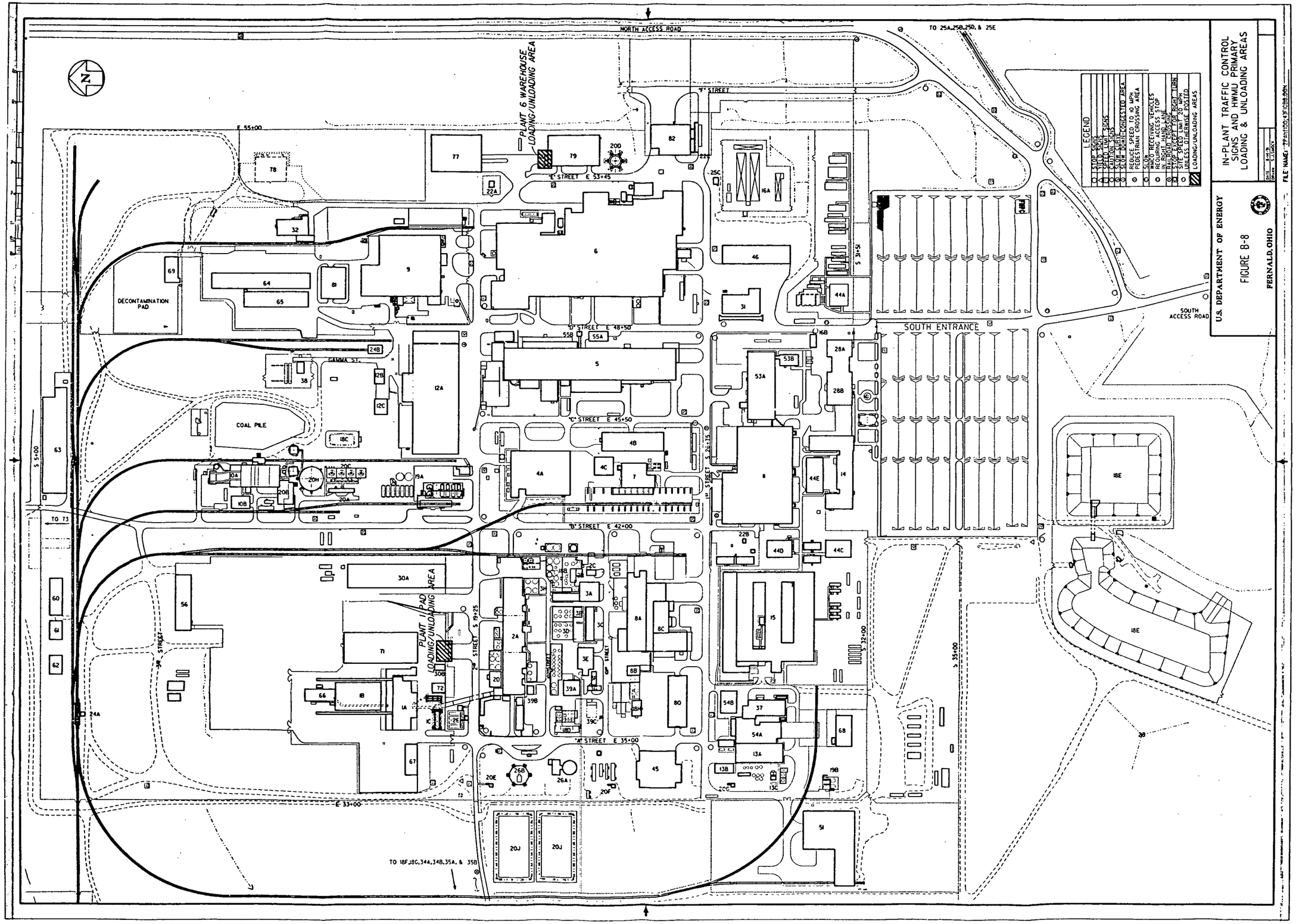
U.S. DEPARTMENT OF ENERGY

FIGURE B-7

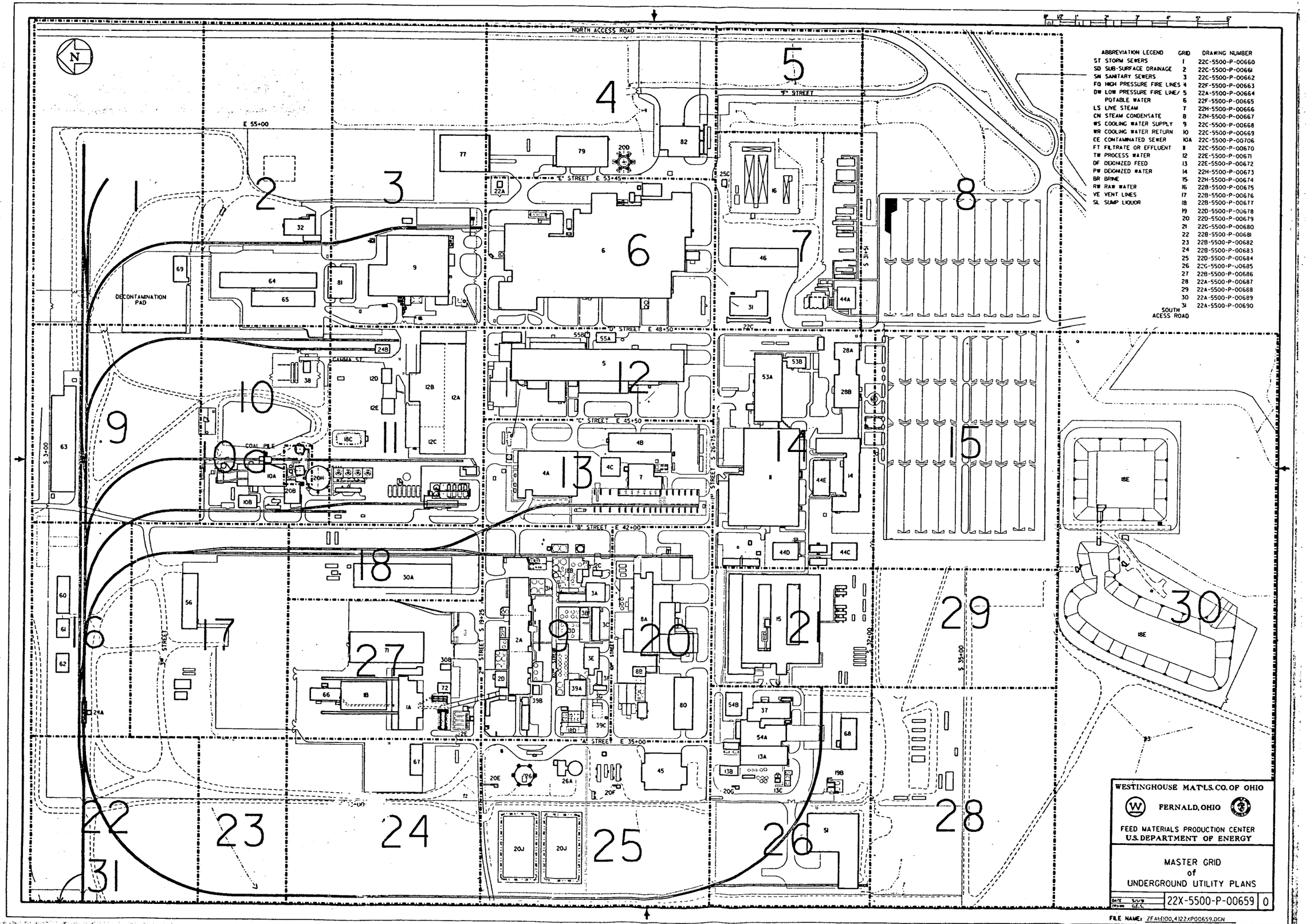
PERNALD, OHIO

0' 200' 400' 600'
SCALE

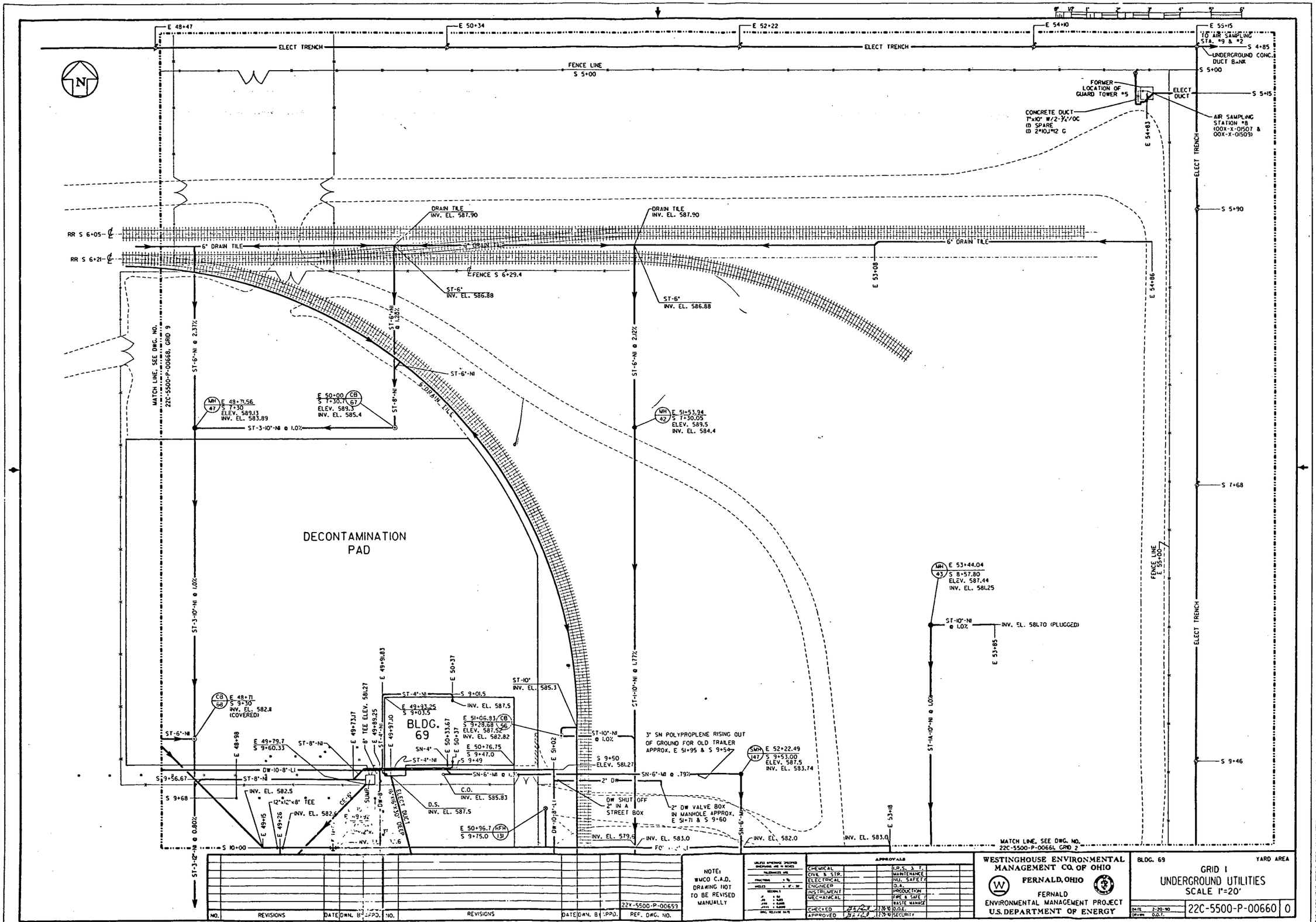
FILE NAME: ZFA1:[200,4]9IHWMUMP.DGN


NORTH ACCESS ROAD
TO 25A,25B,25D, & 25E
PLANT 6 WAREHOUSE LOADING/UNLOADING AREA
"F" STREET
E 55+00
"E" STREET E 53+45
DECONTAMINATION PAD
"D" STREET E 48+50
GAMMA ST.
COAL PILE
"C" STREET E 45+50
"B" STREET E 42+00
PLANT 1 PAD LOADING/UNLOADING AREA
"A" STREET E 35+00
E 33+00
TO 73
TO 18F,18G,34A,34B,35A, & 35B
SOUTH ENTRANCE
SOUTH ACCESS ROAD
S 31+51
S 32+00
S 35+00
S 5+00
S 19+25
LEGEND
STOP SIGNS
YIELD SIGNS
SPEED LIMIT SIGNS
CAUTION SIGNS
SLOW DOWN-CONGESTED AREA
REDUCE SPEED TO 10 MPH PEDESTRIAN CROSSING AREA
SLOW
WMCO RECEIVING VEHICLES REQUIRING ACCESS STOP IN RIGHT HAND LANE
RAILROAD CROSSING
STOP EXCEPT FOR RIGHT TURN
SITE SPEED LIMIT 20 MPH UNLESS OTHERWISE POSTED
LOADING/UNLOADING AREAS
IN-PLANT TRAFFIC CONTROL SIGNS AND HWMU PRIMARY LOADING & UNLOADING AREAS
U.S. DEPARTMENT OF ENERGY
FIGURE B-8
FERNALD, OHIO

SECTION B:
ATTACHMENT B-1



ABBREVIATION LEGEND	GRID	DRAWING NUMBER
ST STORM SEWERS	1	22C-5500-P-00660
SD SUB-SURFACE DRAINAGE	2	22C-5500-P-00661
SN SANITARY SEWERS	3	22C-5500-P-00662
FQ HIGH PRESSURE FIRE LINES	4	22F-5500-P-00663
DW LOW PRESSURE FIRE LINE/	5	22A-5500-P-00664
POTABLE WATER	6	22F-5500-P-00665
LS LIVE STEAM	7	22H-5500-P-00666
CN STEAM CONDENSATE	8	22H-5500-P-00667
WS COOLING WATER SUPPLY	9	22C-5500-P-00668
WR COOLING WATER RETURN	10	22C-5500-P-00669
CE CONTAMINATED SEWER	10A	22C-5500-P-00706
FT FILTRATE OR EFFLUENT	11	22C-5500-P-00670
TW PROCESS WATER	12	22E-5500-P-00671
DF DEIONIZED FEED	13	22E-5500-P-00672
PW DEIONIZED WATER	14	22H-5500-P-00673
BR BRINE	15	22H-5500-P-00674
RW RAW WATER	16	22B-5500-P-00675
VE VENT LINES	17	22B-5500-P-00676
SL SUMP LIQUOR	18	22B-5500-P-00677
	19	22D-5500-P-00678
	20	22D-5500-P-00679
	21	22G-5500-P-00680
	22	22B-5500-P-00681
	23	22B-5500-P-00682
	24	22B-5500-P-00683
	25	22D-5500-P-00684
	26	22G-5500-P-00685
	27	22B-5500-P-00686
	28	22A-5500-P-00687
	29	22A-5500-P-00688
	30	22A-5500-P-00689
	31	22A-5500-P-00690
SOUTH ACESS ROAD		



NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	22X-5500-P-00659 REF. DWG. NO.

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		O.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFE	
		WASTE MANAGE	
CHECKED		O.O.E.	
APPROVED		SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 69 YARD AREA

GRID I
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 2-20-90
DRAWN O.D.T.
22C-5500-P-00660 0

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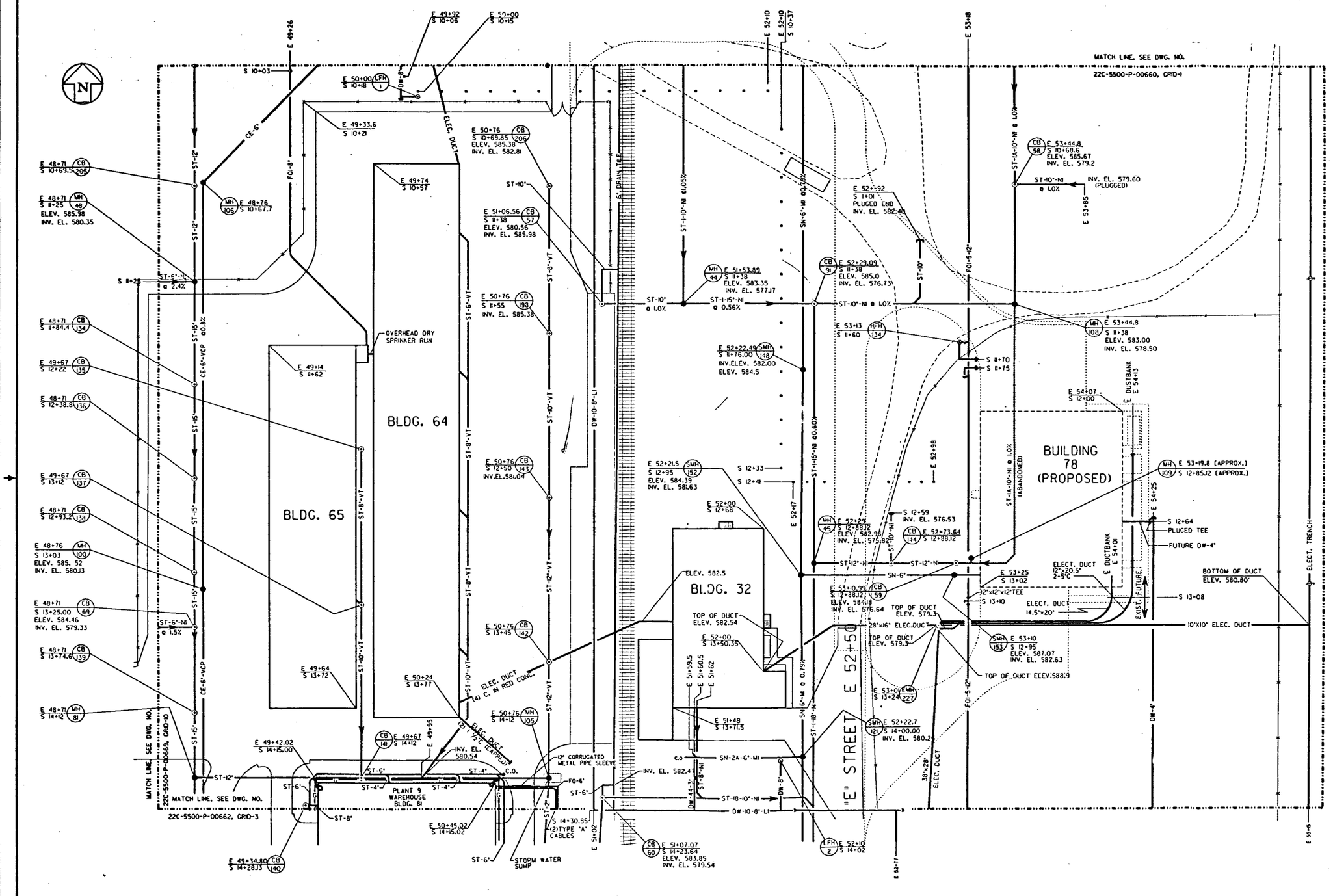


NO.	REVISIONS	DATE	DWN.	APPD.	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
					2	UPDATED	14-9	GES	GEP	
					1	UPDATED	11-10	ODT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

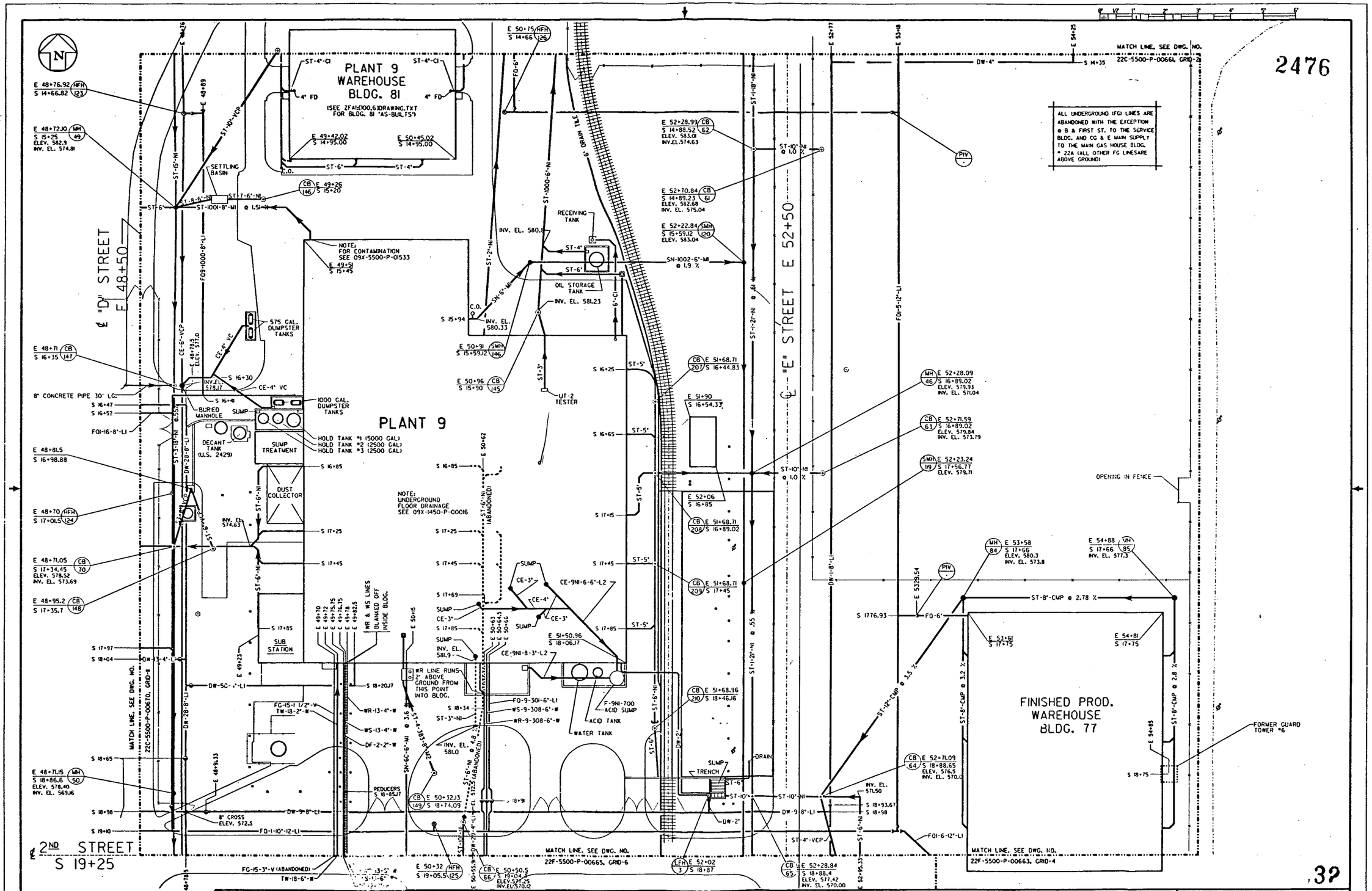
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAF. TY
			WASTE MANAGE
CHECKED		2-20-90	D.O.E.
APPROVED		2-20-90	SECURITY

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BUILDING 32, 64 & 65 YARD AREA
GRID 2
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 2-20-90
DRAWN J. KING
22C-5500-P-00661 2

FILE NAME: ZFA1(100,4)GRID2U.DGN



NO.	REVISIONS	DATE	DWN.	CHK'D	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
					2	UPDATED	4-3-9	GES	GFP	
					1	UPDATED	*6-10	DDT	CFP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

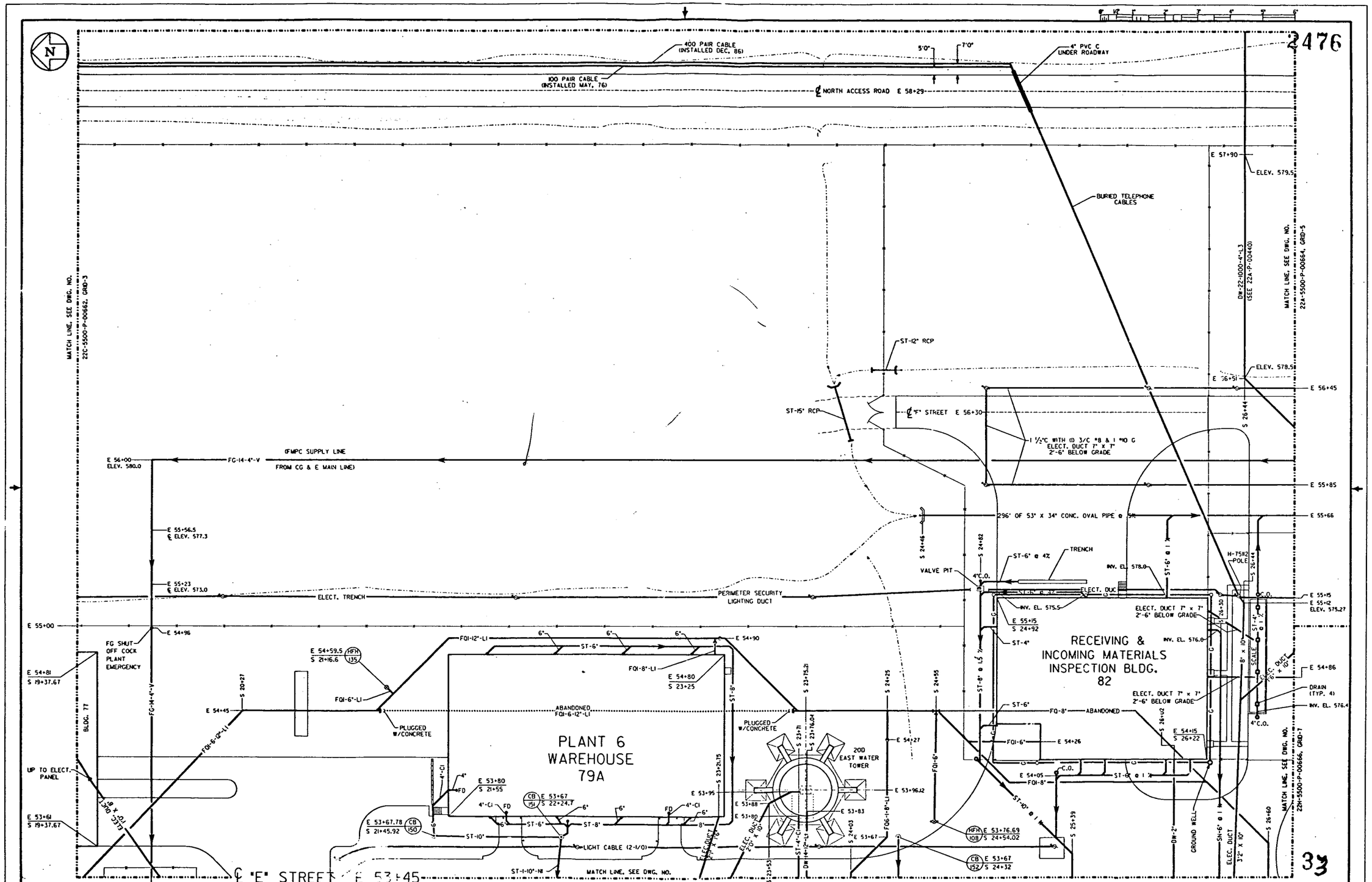
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± 1/16
ANGLES ± 0° - 30'
DECIMALS
.X ± .1
.XX ± .03
.XXX ± .010
.XXXX ± .0005
ORIG. RELEASE DATE

APPROVALS			
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			IND. SAFETY
ENGINEER			O.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED	2-20-90		D.O.E.
APPROVED	2-20-90		SECURITY

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

PLANT 9 — YARD AREA
GRID 3
UNDERGROUND UTILITIES
SCALE 1"=20'
DATE 2-20-90
DRAWN J. KING
22C-5500-P-00662 | 2

FILE NAME: ZFA:000,4:GRID3U.DGN



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2	UPDATED	1-29-90	CES	GEP
1	UPDATED	1-4-90	DDT	GEP

NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
2	UPDATED	1-29-90	CES	GEP	
1	UPDATED	1-4-90	DDT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		Q.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAGE	
CHECKED	[signature]	2-20-90	D.O.E.
APPROVED	[signature]	2-20-90	SECURITY

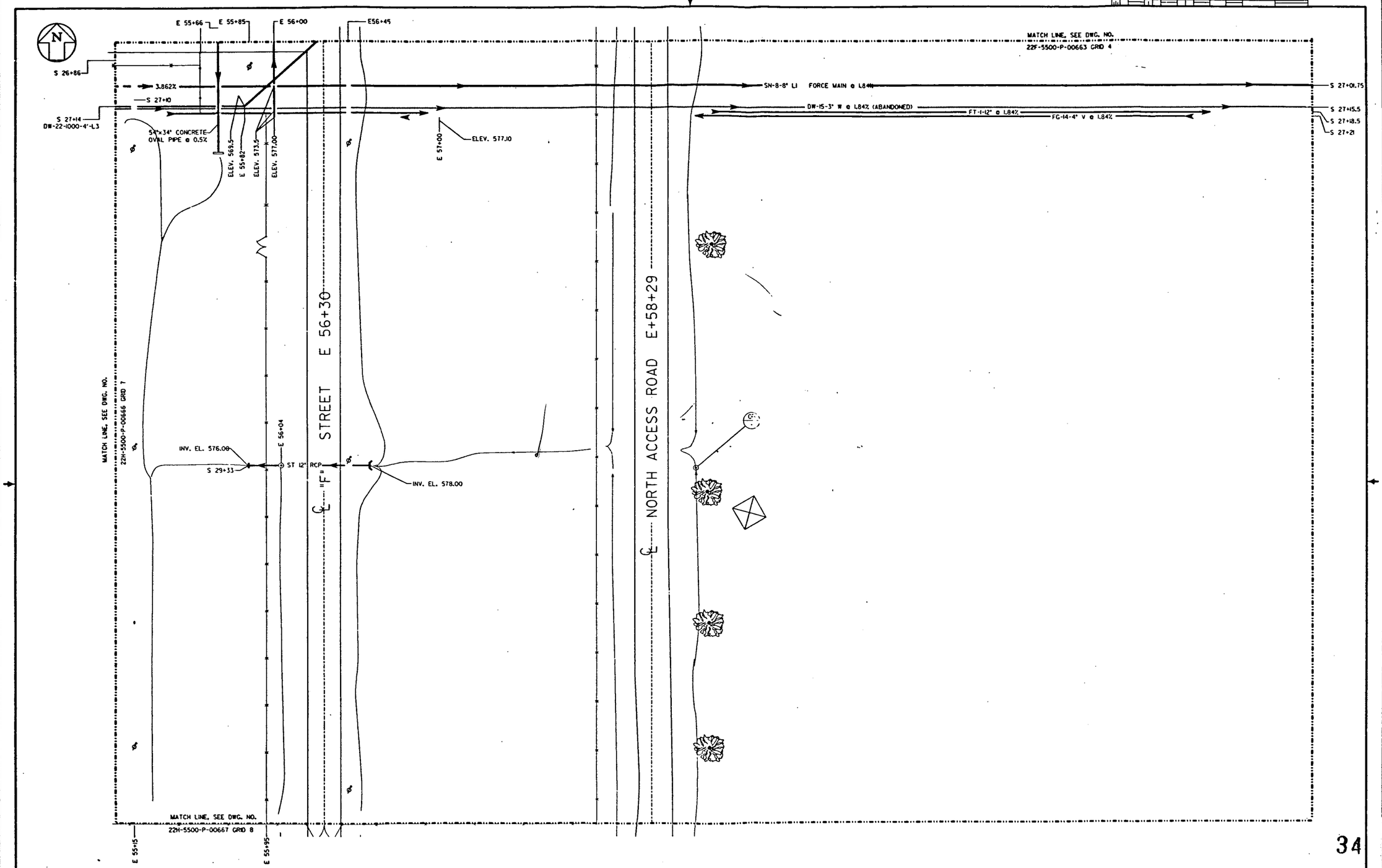
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 79,82 & E. WATER TOWER YARD AREA
GRID 4
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 2-20-90
DRAWN J. FING
22F-5500-P-00663 | 2

FILE NAME: ZFAI:(100,4)GRID4U.DGN

2476



34

NO.	REVISIONS	DATE	DWN.	APPD.
1	UPDATED	9-6-90	DDT	GEP

NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
					22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED	[illegible]	2-20-90	D.O.E.
APPROVED	[illegible]	2-20-90	SECURITY

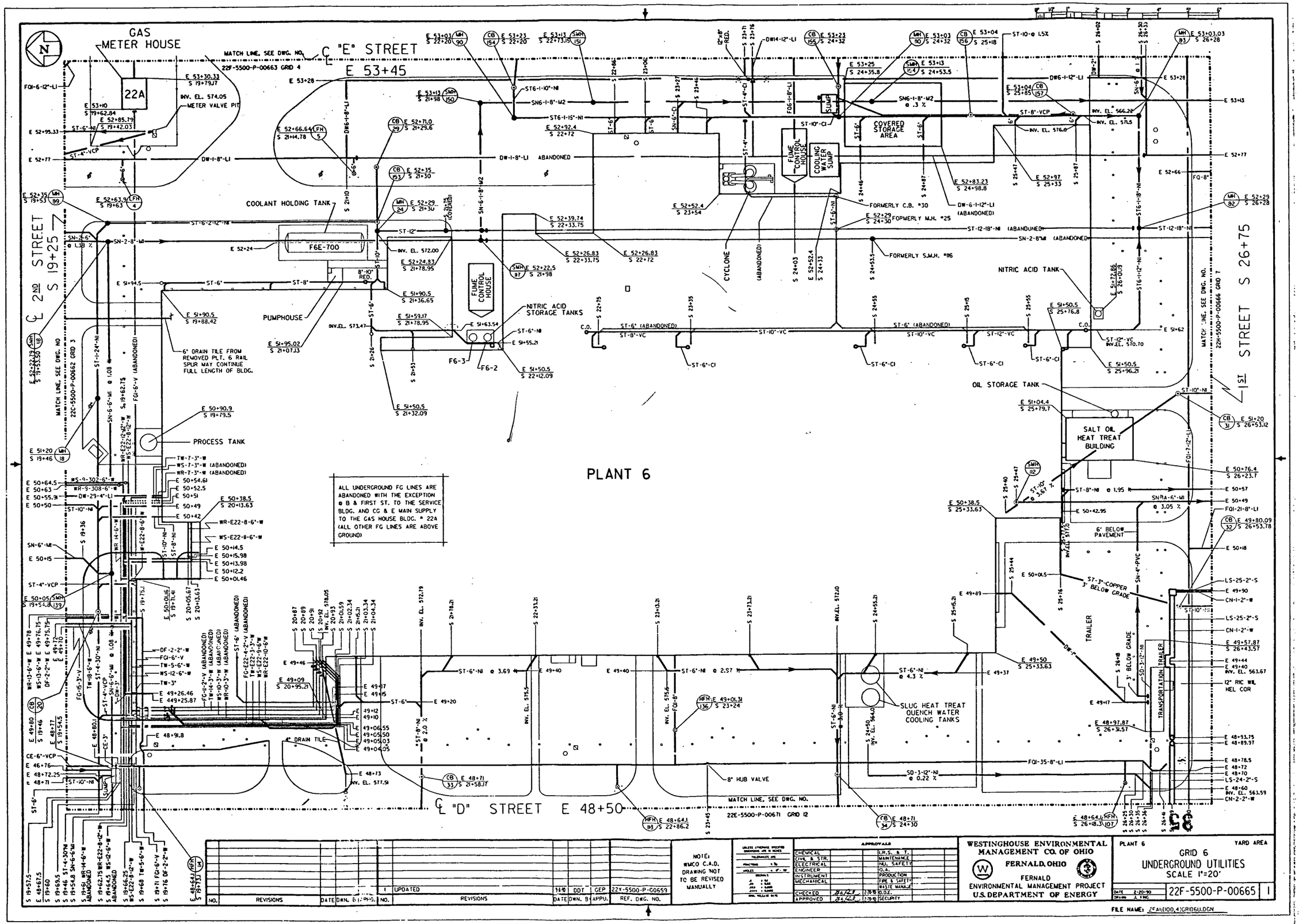
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

EAST OF MAIN SUB-STATION YARD AREA
GRID 5
UNDERGROUND UTILITIES
SCALE 1"=20'

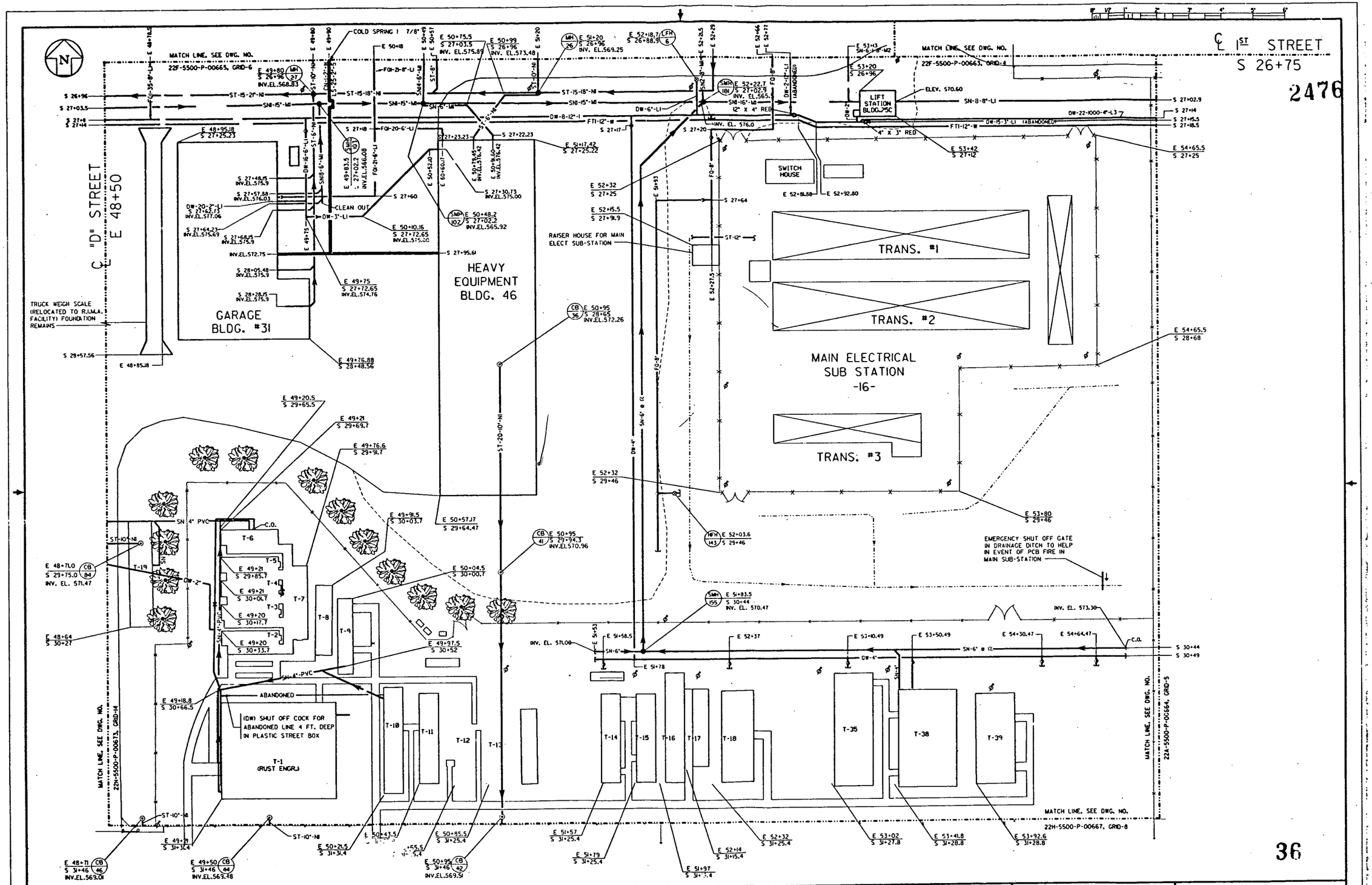
DATE 2-20-90
DRAWN DEL TURPIN
22A-5500-P-00664 | 1

FILE NAME: 2FA1E100,4GRID5U.DGN

2476



GAS METER HOUSE
22A
MATCH LINE, SEE DWG. NO. 22F-5500-P-00663 GRID 4
℄ "E" STREET
E 53+45
℄ 2ND STREET
S 19+25
℄ 1ST STREET S 26+75
℄ "D" STREET E 48+50
MATCH LINE, SEE DWG. NO. 22C-5500-P-00662 GRID 3
MATCH LINE, SEE DWG. NO. 22H-5500-P-00666 GRID 7
MATCH LINE, SEE DWG. NO. 22E-5500-P-00671 GRID 12
PLANT 6
COOLANT HOLDING TANK
F6E-700
PUMPHOUSE
6" DRAIN TILE FROM REMOVED PLT. 6 RAIL SPUR MAY CONTINUE FULL LENGTH OF BLDG.
PROCESS TANK
FUME CONTROL HOUSE
NITRIC ACID STORAGE TANKS
F6-3
F6-2
COVERED STORAGE AREA
COOLING WATER SUMP
CYCLONE
FORMERLY C.B. #30
FORMERLY M.H. #25
FORMERLY S.M.H. #116
NITRIC ACID TANK
OIL STORAGE TANK
SALT OIL HEAT TREAT BUILDING
6' BELOW PAVEMENT
3' BELOW GRADE
TRAILER
TRANSPORTATION TRAILER
SLUG HEAT TREAT QUENCH WATER COOLING TANKS
4" DRAIN TILE
8" HUB VALVE
12" RIC WIL HEL COR
ALL UNDERGROUND FG LINES ARE ABANDONED WITH THE EXCEPTION @ B & FIRST ST. TO THE SERVICE BLDG. AND CG & E MAIN SUPPLY TO THE GAS HOUSE BLDG. # 22A (ALL OTHER FG LINES ARE ABOVE GROUND)
NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY
APPROVALS
CHEMICAL
CIVIL & STR.
ELECTRICAL
ENGINEER
INSTRUMENT
MECHANICAL
CHECKED
APPROVED
I.R.S. & T.
MAINTENANCE
NU. SAFETY
O.A.
PRODUCTION
FIRE & SAFETY
WASTE MANAGE
O.O.E.
SECURITY
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY
PLANT 6
YARD AREA
GRID 6
UNDERGROUND UTILITIES
SCALE 1"=20'
22F-5500-P-00665
1
UPDATED
22X-5500-P-00659



36

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
					1	UPDATED		DDT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

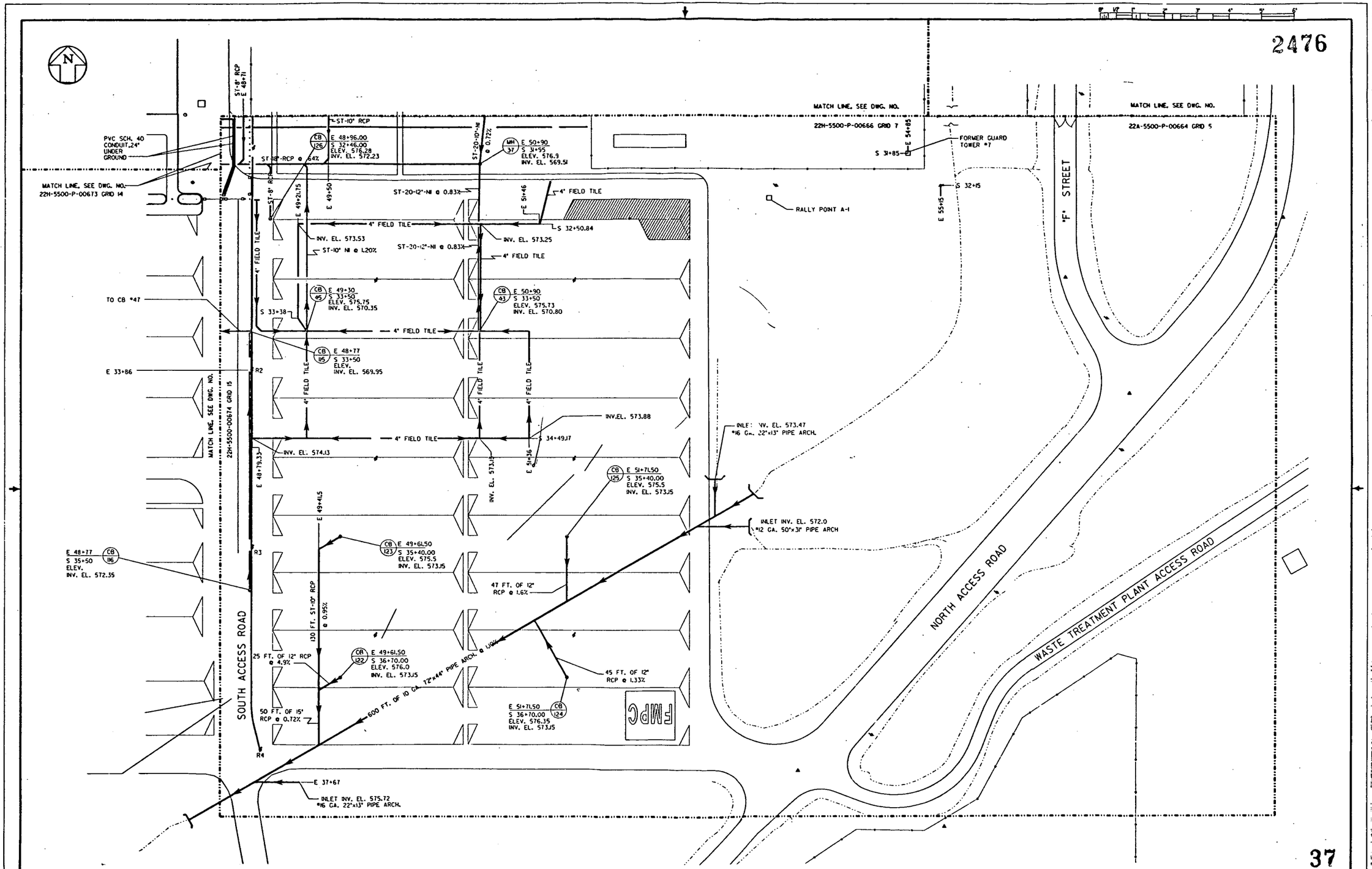
CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		O.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAGE	
CHECKED		D.O.E.	
APPROVED		SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 31 & 46, AREA 16 YARD AREA
GRID 7
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 2-20-90
DRAWN J. KING
22H-5500-P-00666 | 1

FILE NAME: ZFA1(100,4)GRID7U.DGN



37

NO.	REVISIONS	DATE	DWN.	CHKD.	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
					1	UPDATED	1-10-90	DDT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED	[signature]	2-20-90	D.O.E.
APPROVED	[signature]	2-20-90	SECURITY

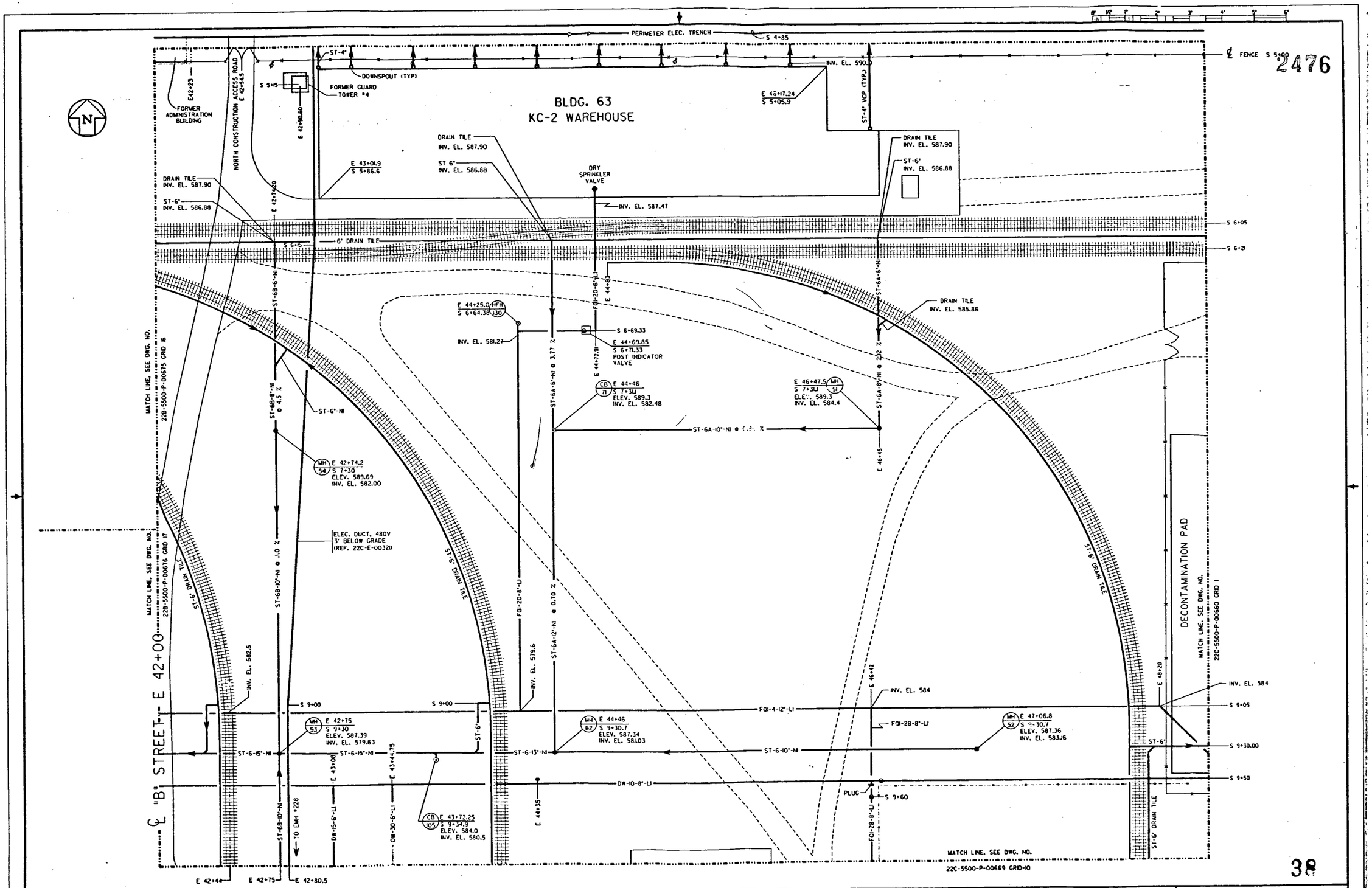
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

EAST PARKING LOT — YARD AREA

GRID 8
UNDERGROUND UTILITIES
SCALE 1"=30'

DATE 2-20-90 DRAWN DEL TURPIN — 22H-5500-P-00667 — 1

FILE NAME: ZFAI:100,4IGRID8U.DGN



38

NO.	REVISIONS	DATE	DWN.	APPD.	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
					1	UPDATED	1-6-89	DDT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		Q.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAGE	
CHECKED		D.O.E.	
APPROVED		SECURITY	

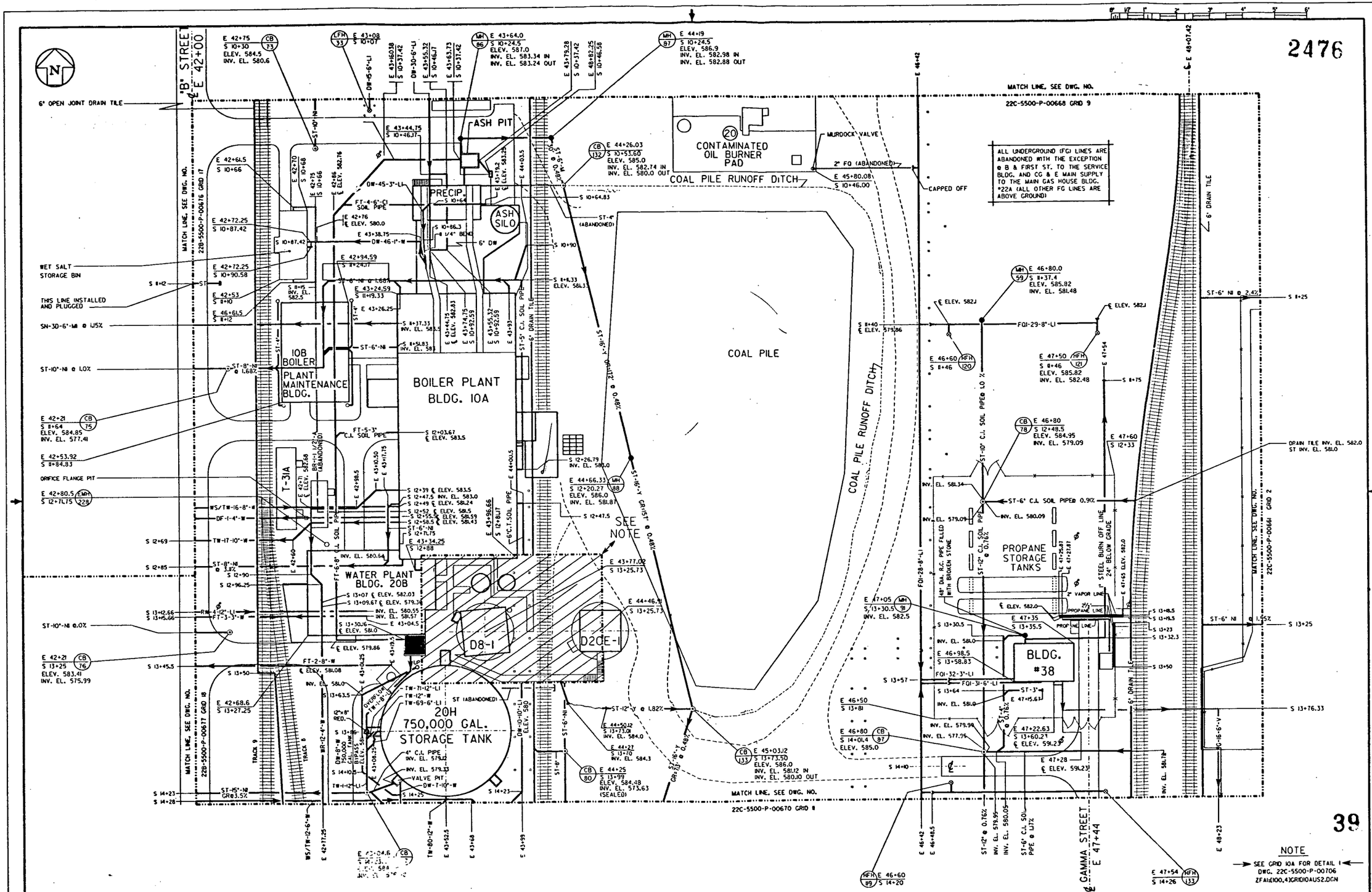
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BUILDING 63 YARD AREA
GRID 9
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 7-10-89
DRAWN J. KING

22C-5500-P-00668 | 1

FILE NAME: ZFAI:[100,4]GRID9U.DGN



NO.	REVISIONS	DATE	DWN.	APPD.
2	UPDATED	6-29-9	SJS	GEP
1	UPDATED	12-1-90	DDT	GEP

NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
2	UPDATED	6-29-9	SJS	GEP	22C-5500-P-00706
1	UPDATED	12-1-90	DDT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

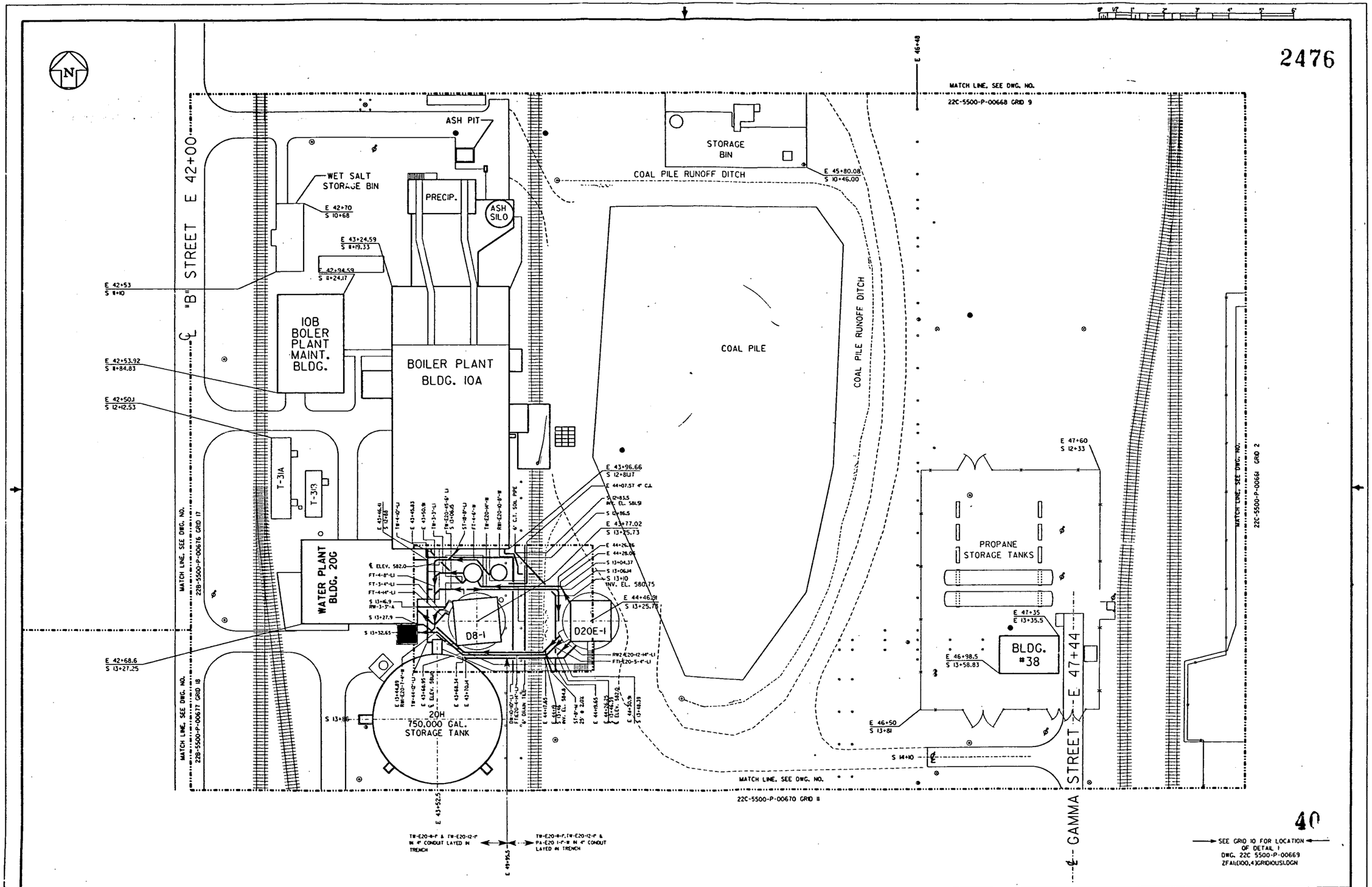
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			O.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED		9-4-90	D.O.E.
APPROVED		9-4-90	SECURITY

WESTINGHOUSE MAT'LS. CO. OF OHIO
FERNALD, OHIO
FEED MATERIALS PRODUCTION CENTER
U.S. DEPARTMENT OF ENERGY

BLDG. 10,20 & 38 YARD AREA
GRID 10
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 6-15-90
DRAWN DEL TURPIN
22C-5500-P-00669 2

FILE NAME: ZFA1(100,4)GRID10US1.DGN



NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
										22C-5500-P-00669
										22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

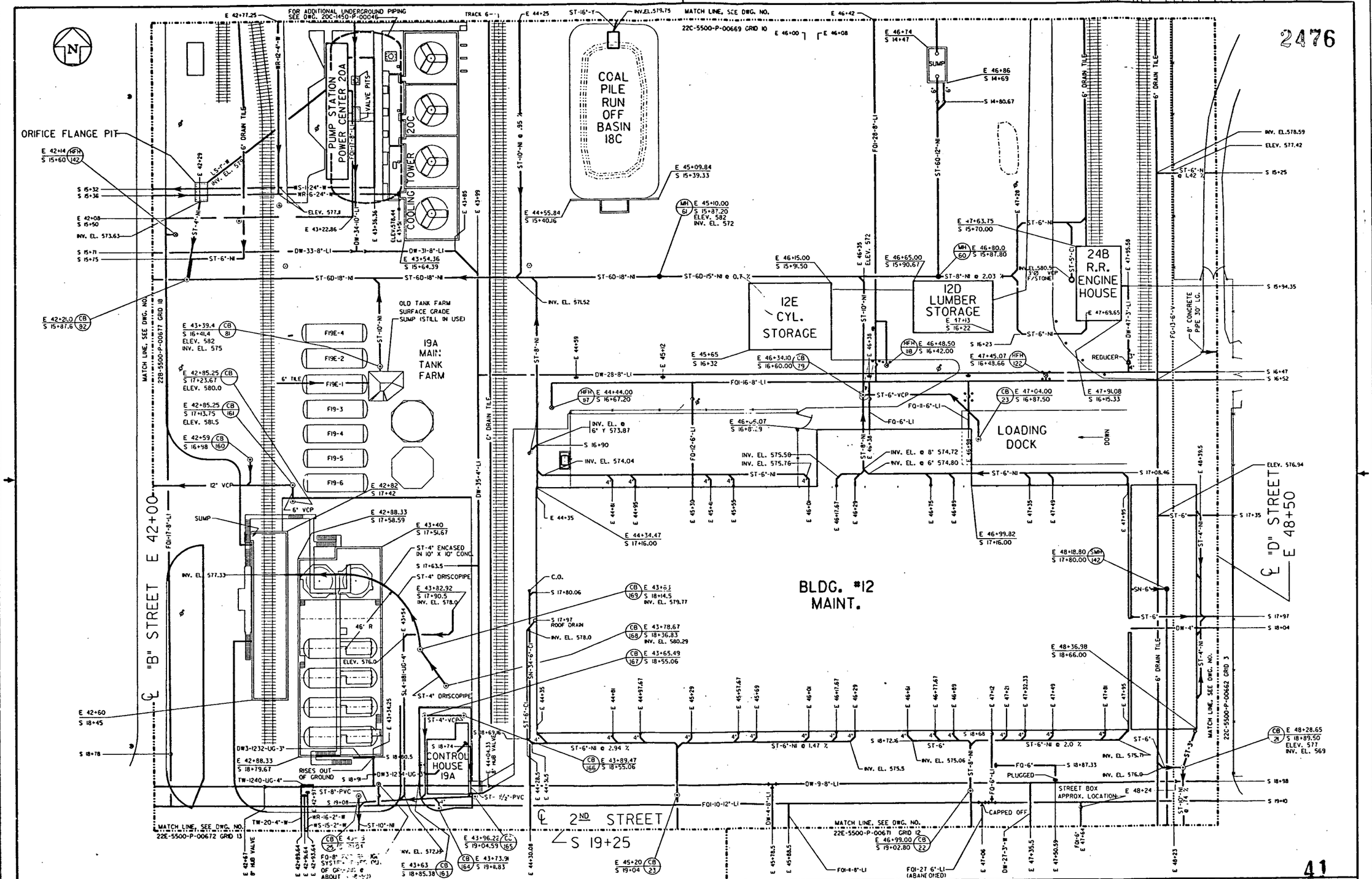
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NUL SAFETY
ENGINEER			O.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED			D.O.E.
APPROVED			SECURITY

WESTINGHOUSE MAT'LS. CO. OF OHIO
FERNALD, OHIO
FEED MATERIALS PRODUCTION CENTER
U.S. DEPARTMENT OF ENERGY

BLDG. 10,20 & 38 YARD AREA
GRID 10A
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 6-15-90
DRAWN DEL TURPIN
22C-5500-P-00706 0

FILE NAME: ZFAI:(100,4)GRID10AUS2.DGN



NO.	REVISIONS	DATE	DWN. BY	APPD.
2	UPDATED	4-21-91	GFS	GEP
1	UPDATED	3-4-91	DDT	GEP

NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
2	UPDATED	4-21-91	GFS	GEP	22X-5500-P-00659
1	UPDATED	3-4-91	DDT	GEP	

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED	[signature]	5-3-90	Q.O.E.
APPROVED	[signature]	5-3-90	SECURITY

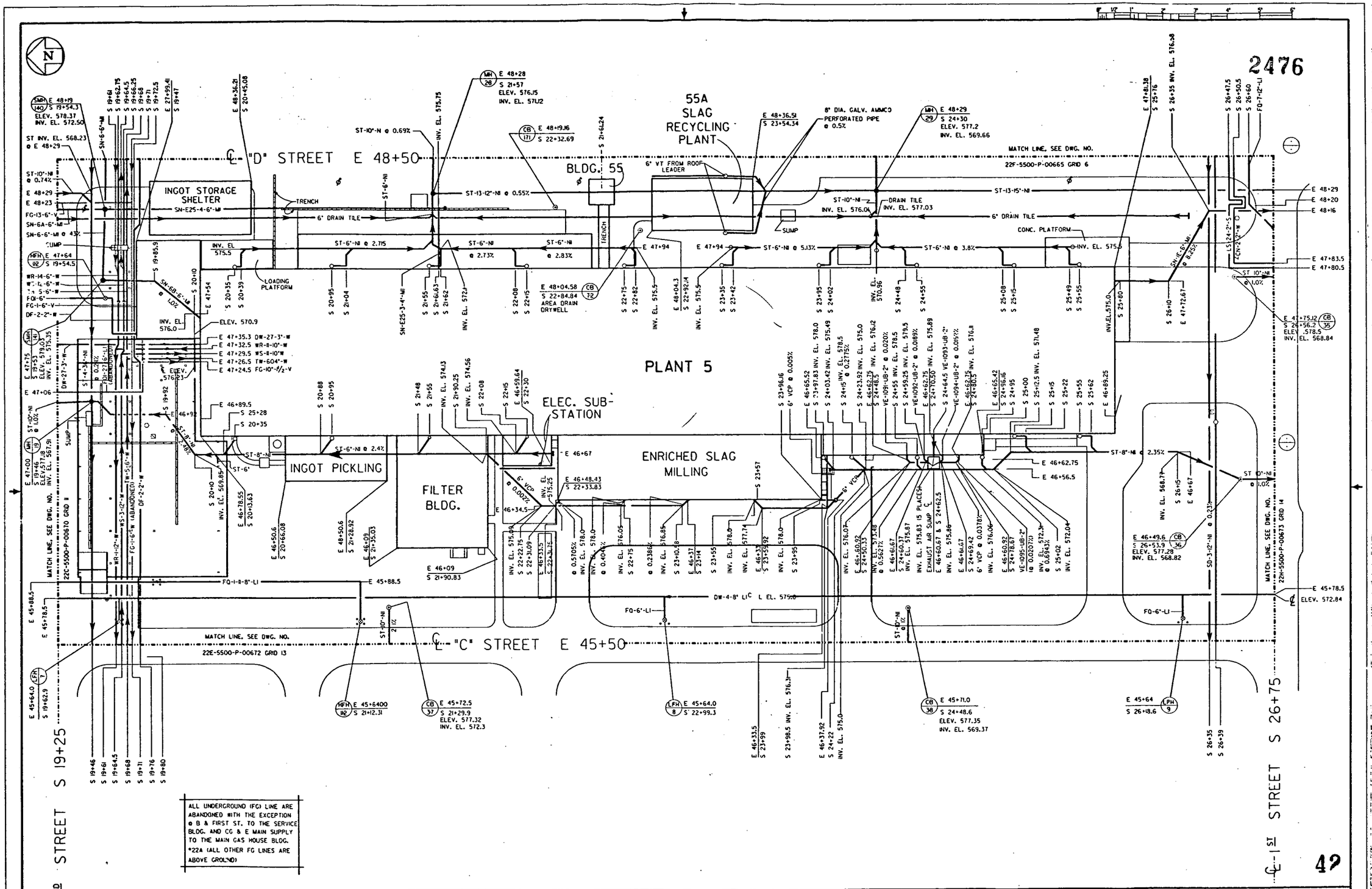
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 12, 24 & TANK FARM — YARD AREA
GRID 11
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 5-21-90
DRAWN J. KING

22C-5500-P-00670 | 2

FILE NAME: ZFA1(100,41GRID11).DGN



NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
										22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

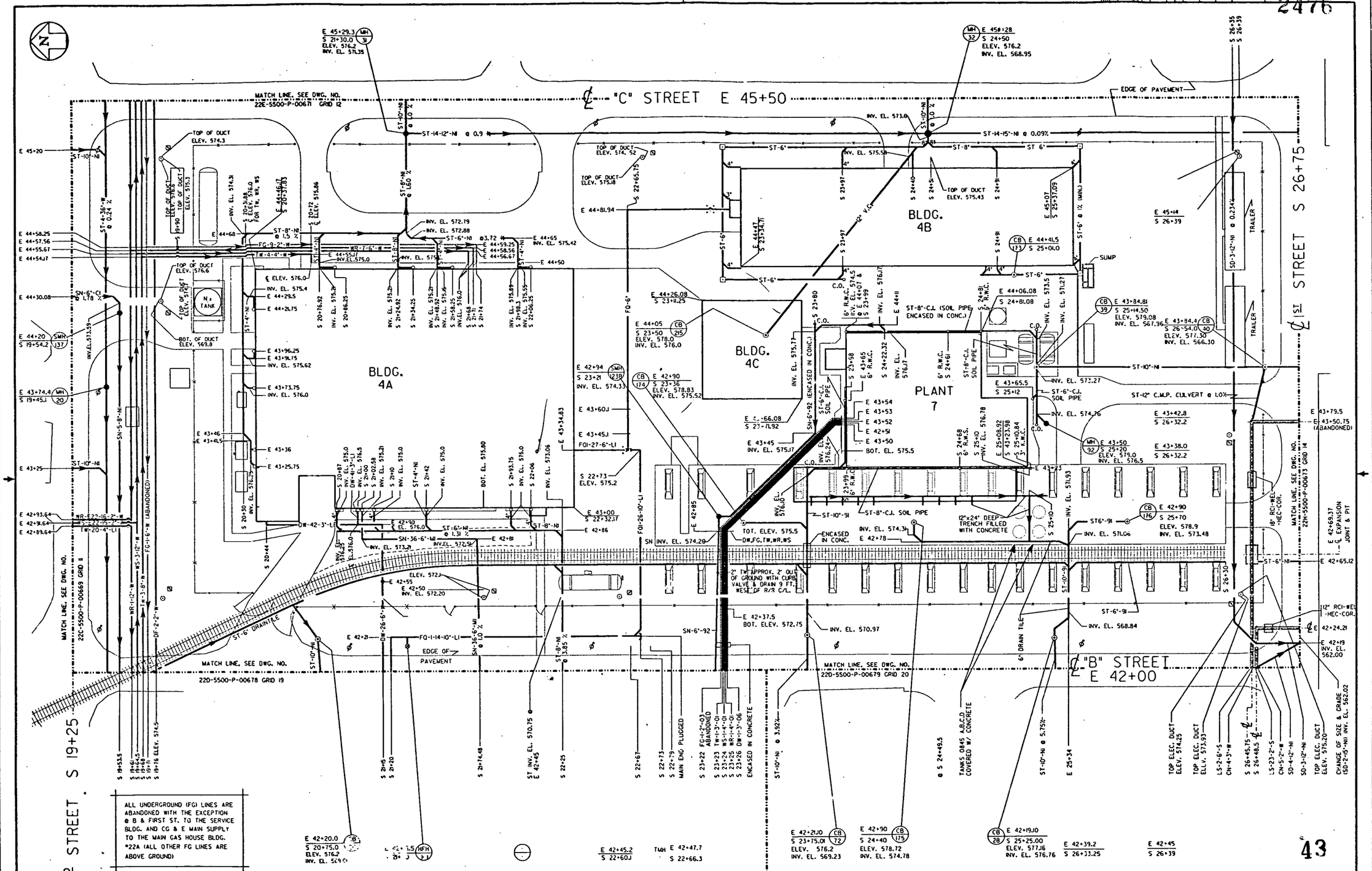
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			O.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED			O.O.E.
APPROVED			SECURITY

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 5 YARD AREA
GRID 12
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 12-14-89
DRAWN DEL TURPIN
22E-5500-P-00671 0

FILE NAME: ZFAI100.41GRID12U.DGN



NO.	REVISIONS	DATE	DWN.	APPD.	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
										22K-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± 1/16
ANGLES ± 0° - 30'
DECIMALS
.X ± .1
.XX ± .03
.XXX ± .010
.XXXX ± .0050
APPL. FOLLOW SI SZ

APPROVALS			
CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NUL. SAFETY	
ENGINEER		Q.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAGE	
CHECKED	12/2/9	D.O.E.	
APPROVED	12/2/9	SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

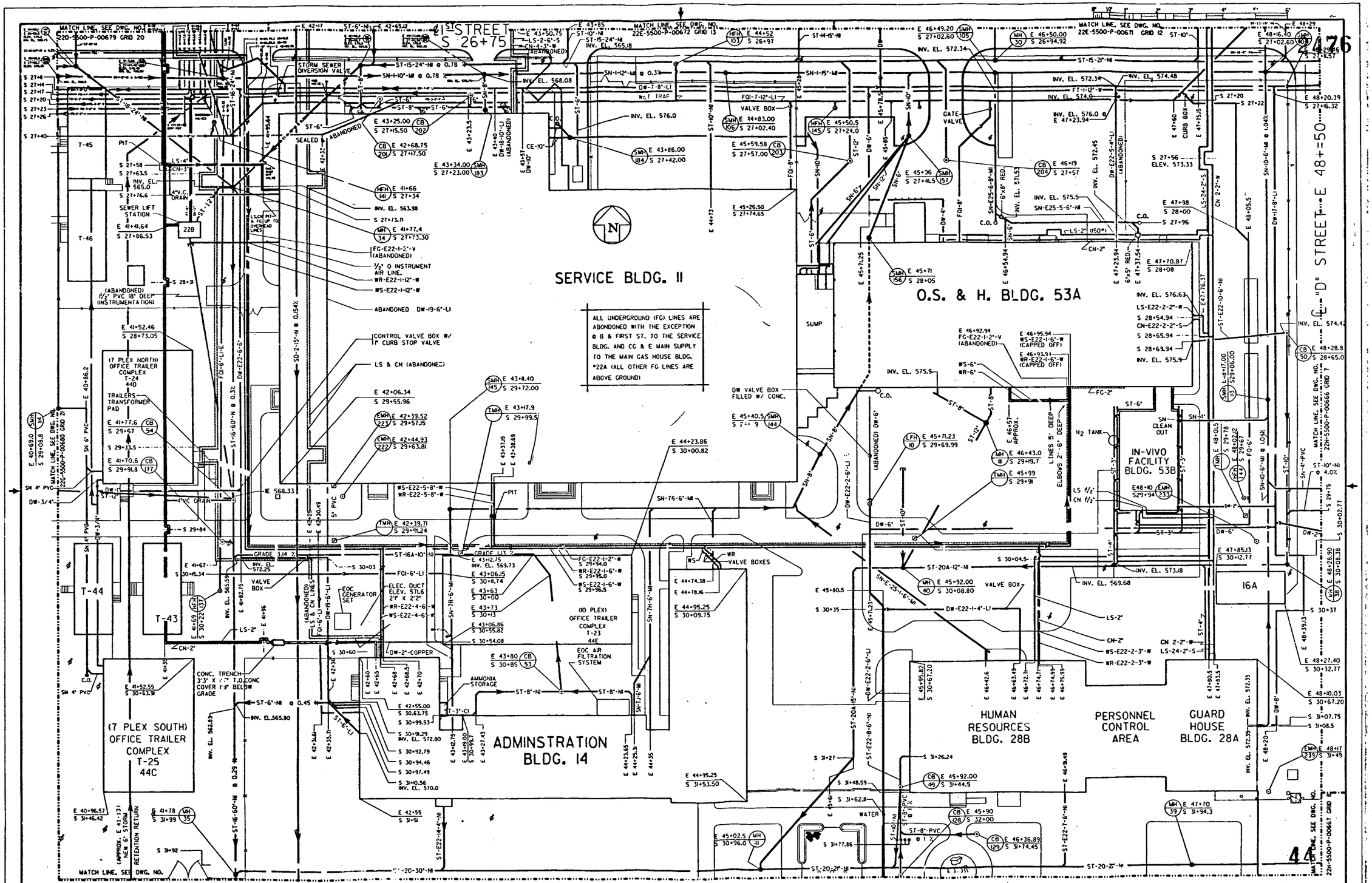
PLANT 4 & 7 — YARD AREA

GRID 13
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 2-29-90
DRAWN DEL TURPIN

22E-5500-P-00672 | 0

FILE NAME: ZFAIS\100,4\GRID13U.DGN



NO.	REVISIONS	DATE	DWN.	APPD.	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
					1	UPDATED	4-79	GES	GEP	22H-5500-P-00673 22C-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

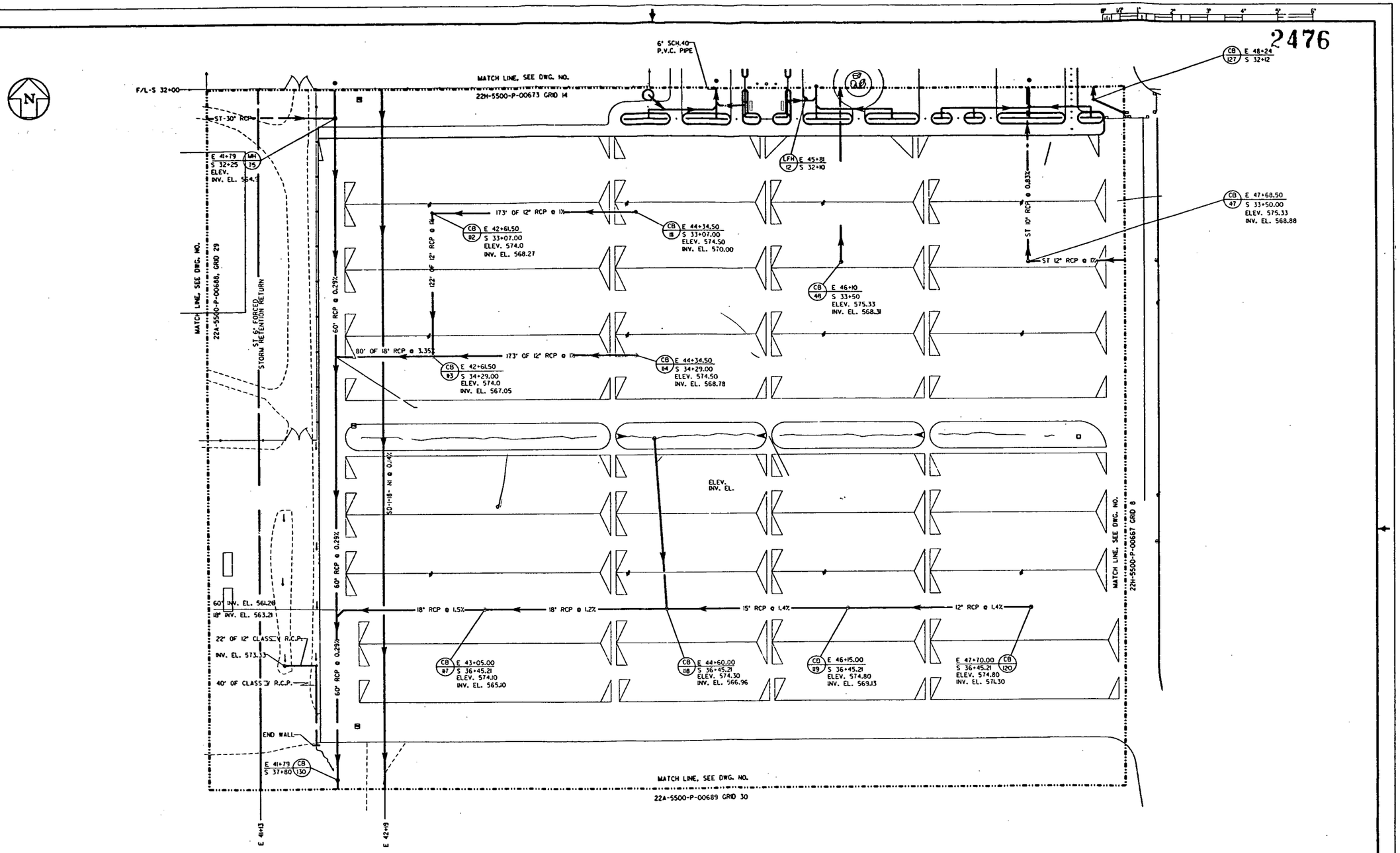
CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NUL. SAFETY	
ENGINEER		Q.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAGE	
CHECKED	[illegible]	11-27-80	O.O.E.
APPROVED	[illegible]	11-27-80	SECURITY

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 11,14,28 & 53 YARD AREA
GRID 14
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 05-30-89
DRAWN J. KING
22H-5500-P-00673 1

FILE NAME: ZFA1:(100,4)GRID14U.DGN



45

NO.	REVISIONS	DATE	DWN.	B	APPD.	NO.	REVISIONS	DATE	DWN.	B	APPD.	REF. DWG. NO.
												22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS			
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			O.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED	[illegible]	4/29/9	D.O.E.
APPROVED	[illegible]	4/29/9	SECURITY

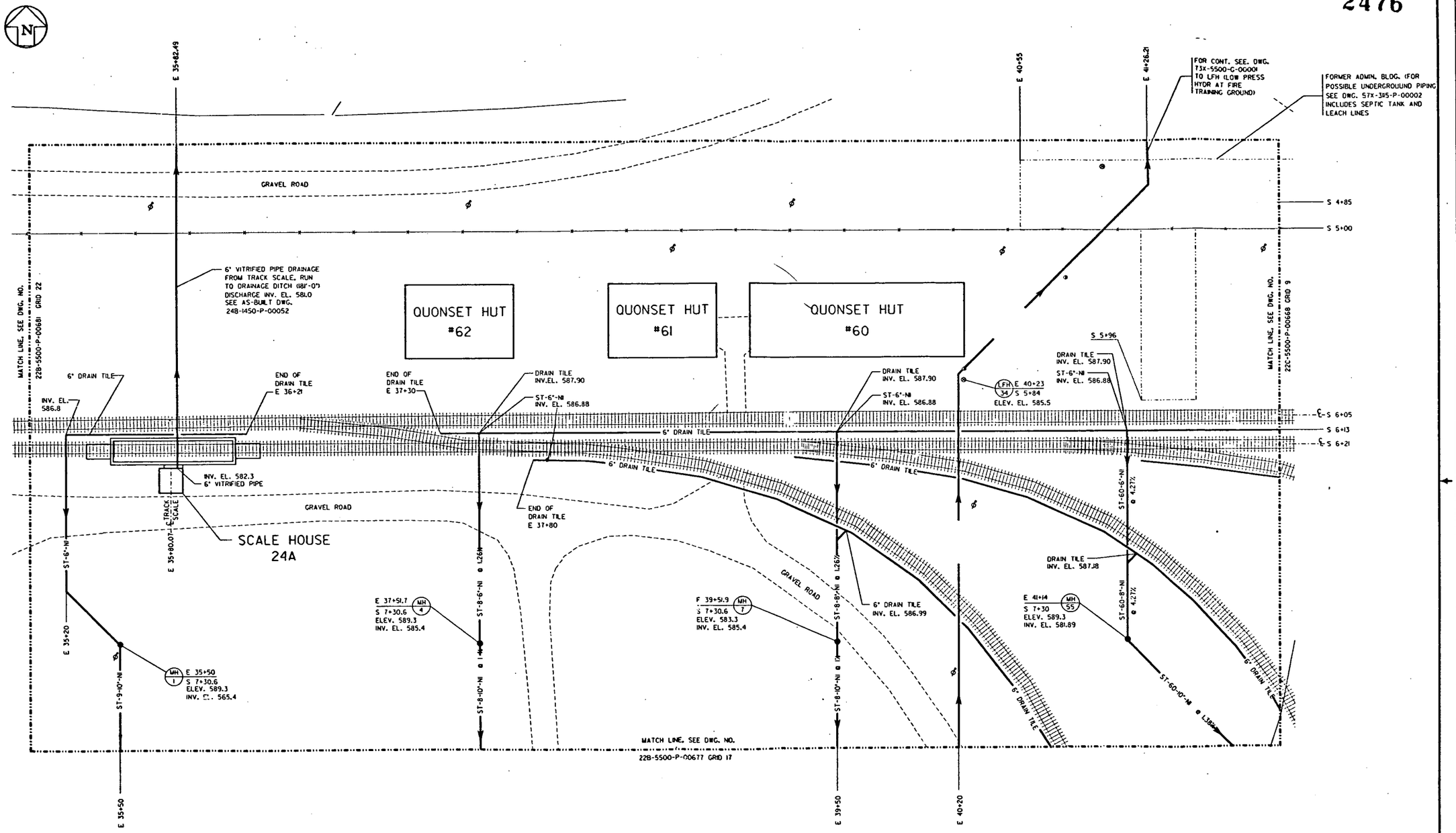
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

WEST PARKING LOT — YARD AREA
GRID 15
UNDERGROUND UTILITIES
SCALE 1"=30'

DATE 5-21-90
DRAWN DEL TURPIN
22H-5500-P-00674 0

FILE NAME: ZFA1:[100,4]GRID15U.DGN

2476



46

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
					1	UPDATED	HH	DDT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

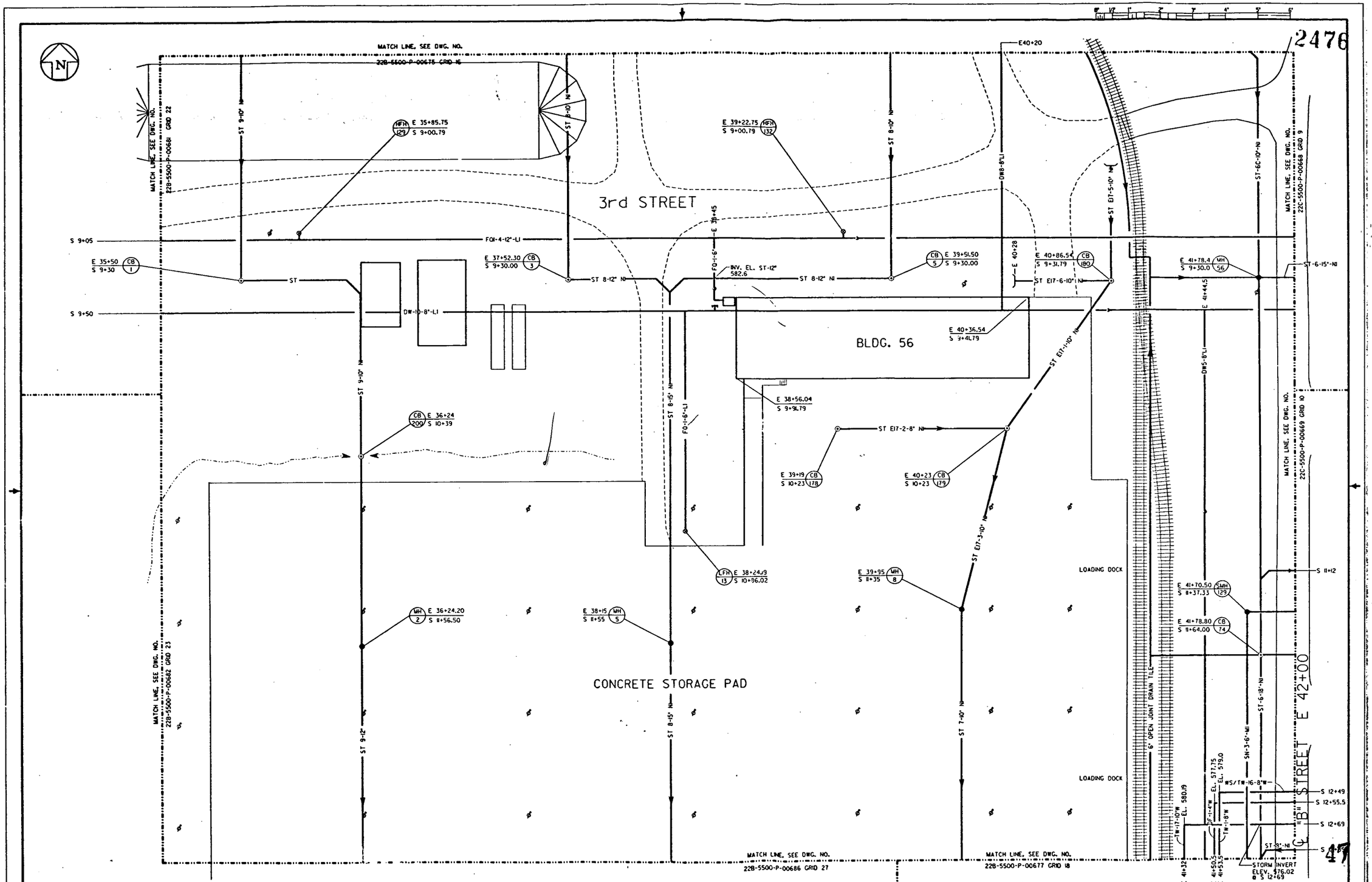
APPROVALS			
CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		O.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAG.	
CHECKED	[signature]	D.O.E.	
APPROVED	[signature]	SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 60,61 & 62 YARD AREA
GRID 16
UNDERGROUND UTILITIES
SCALE 1"-20'

DATE 4-25-90
DRAWN DEL. TURPIN
22B-5500-P-00675 1

FILE NAME: ZFA1:(100,4)GRID16U.DGN



NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
					1	UPDATED		DDT	GEP	22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

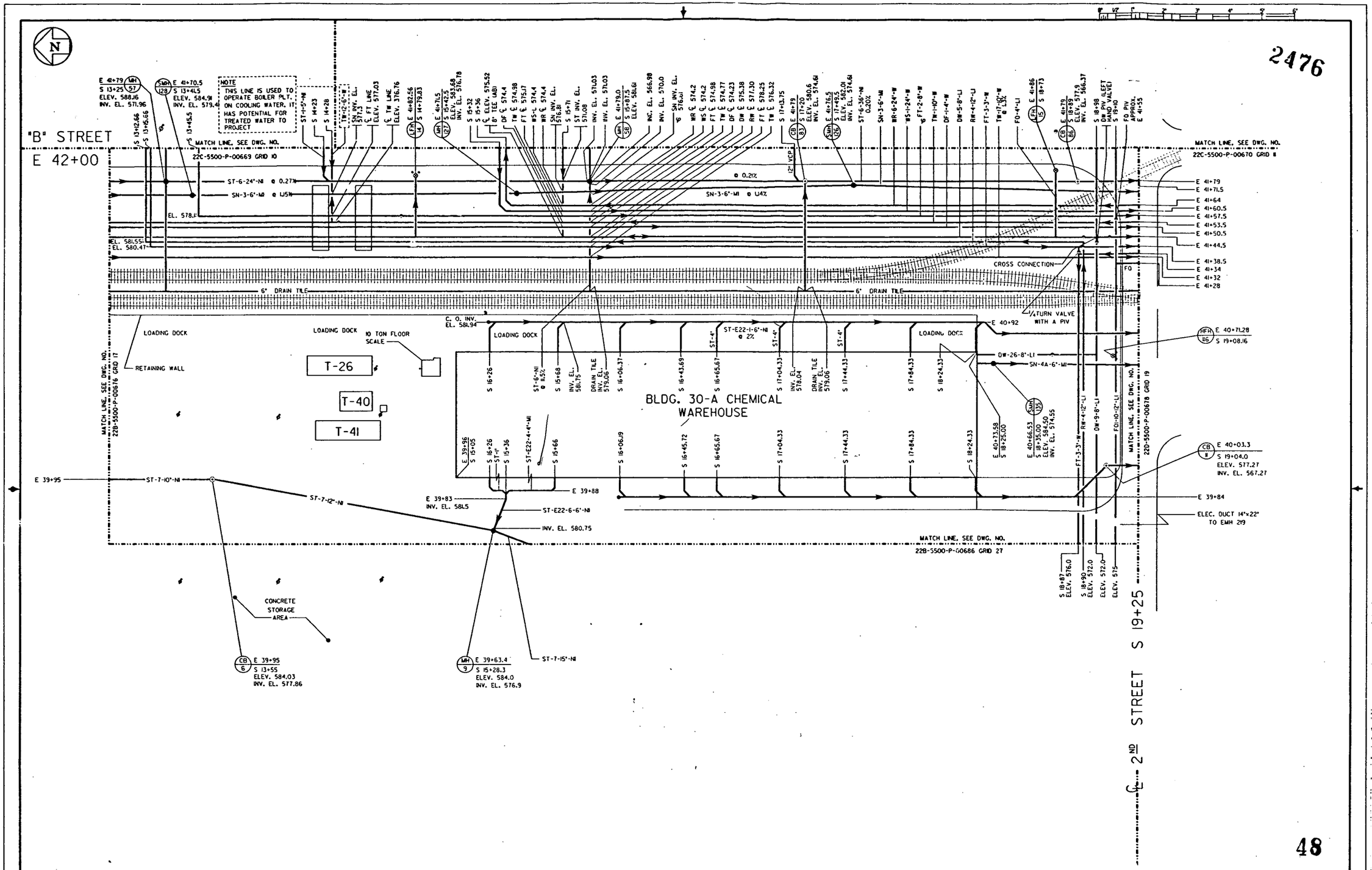
CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		Q.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAGE	
CHECKED		D.O.E.	
APPROVED		SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 56 & PLANT #1 PAD — YARD AREA
GRID 17
UNDERGROUND UTILITIES
SCALE 1"-20'

DATE 4-25-90
DRAWN DEL. TURPIN
22B-5500-P-00676 | 1

FILE NAME: ZFA1:[100,4]GRID17U.DGN



NO.	REVISIONS	DATE	DWN. BY	APP'D.
2	UPDATED	4/29/91	GES	GEP
1	UPDATED	5/10/90	DDT	GEP

NO.	REVISIONS	DATE	DWN. BY	APP'D.	REF. DWG. NO.
					22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

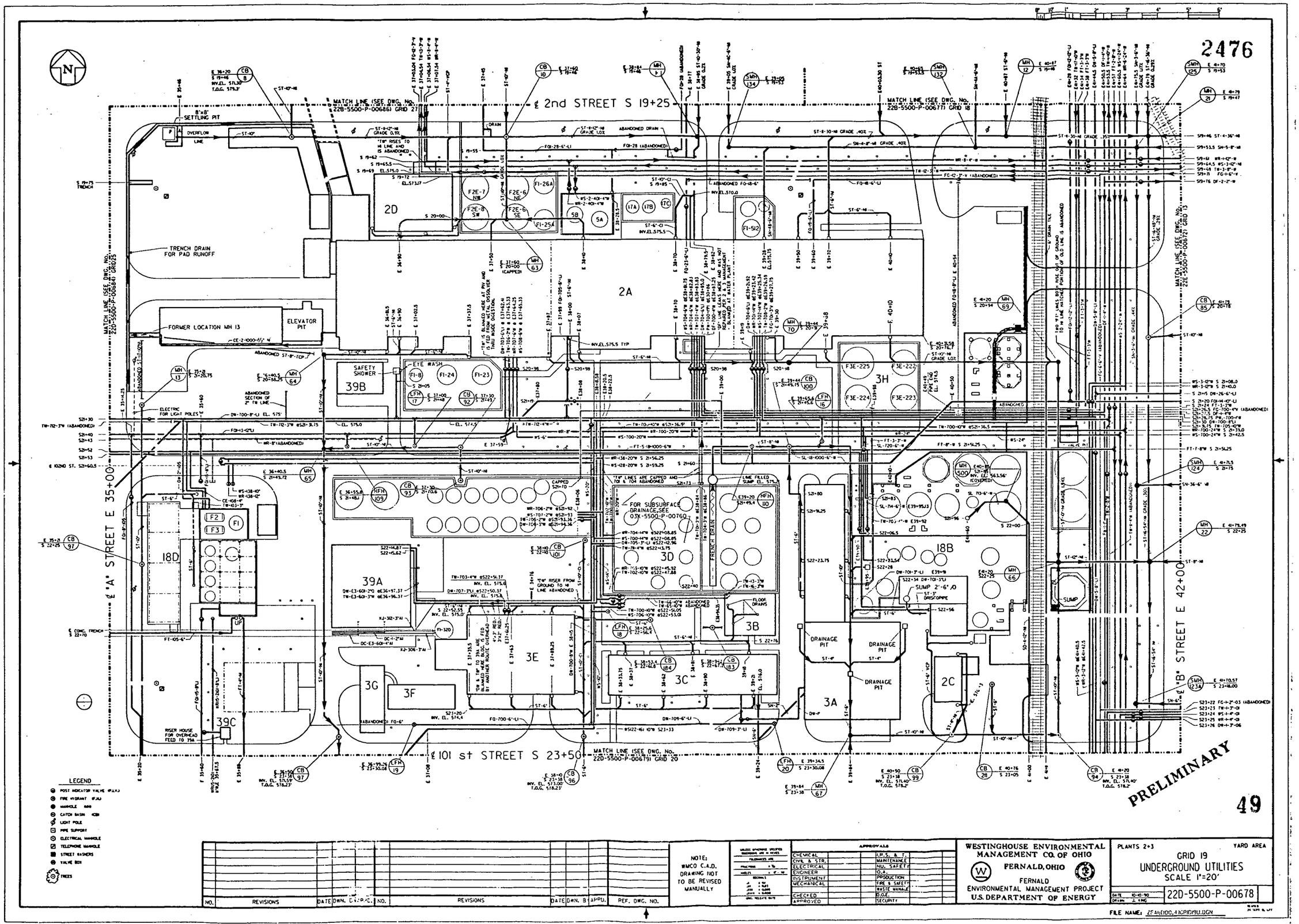
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED		7/5/90	D.O.E.
APPROVED		7/5/90	SECURITY

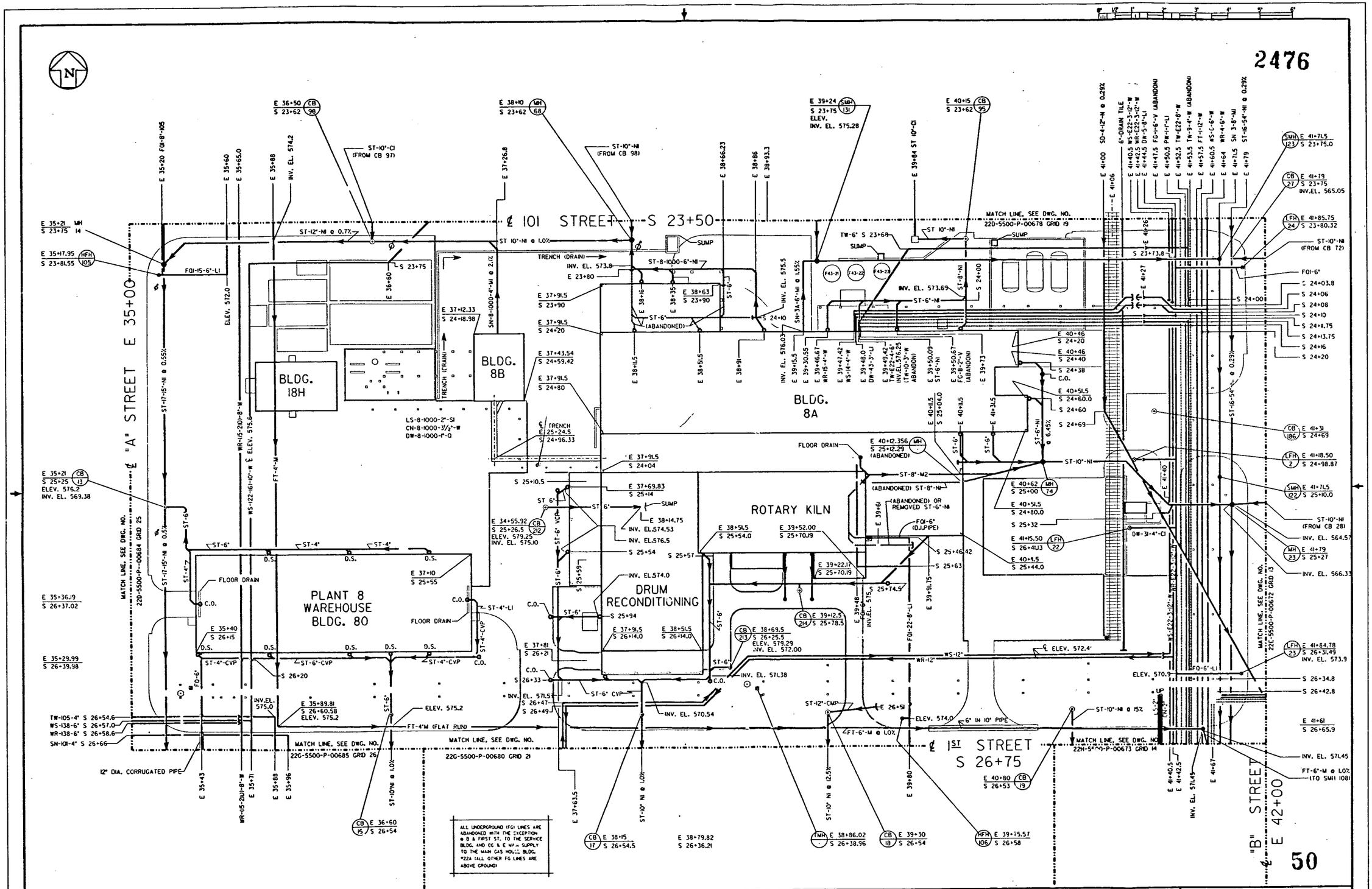
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 30 YARD AREA
GRID 18
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 4-25-90
DRAWN DEL. TURPIN
22B-5500-P-00677 2

FILE NAME: ZFA1(100,4)GRID18U.DGN


2476
℄ 2nd STREET S 19+25
℄ "A" STREET E 35+00
℄ "B" STREET E 42+00
℄ 101 st STREET S 23+50
MATCH LINE (SEE DWG. No. 22B-5500-P-00686) GRID 27
MATCH LINE (SEE DWG. No. 22B-5500-P-00677) GRID 18
MATCH LINE (SEE DWG. No. 22D-5500-P-00679) GRID 20
MATCH LINE (SEE DWG. No. 22E-5500-P-00672) GRID 13
MATCH LINE (SEE DWG. No. 22D-5500-P-00684) GRID 25
8'x8' SETTLING PIT
OVERFLOW LINE
TRENCH DRAIN FOR PAD RUNOFF
FORMER LOCATION MH 13
ELEVATOR PIT
SAFETY SHOWER
EYE WASH
FOR SUBSURFACE DRAINAGE, SEE 03X-5500-P-00760
FRENCH DRAIN
DRAINAGE PIT
SUMP
RISER HOUSE FOR OVERHEAD FEED TO 39A
2D
2A
3H
39B
18D
39A
3D
18B
3B
3E
3C
3G
3F
3A
2C
39C
PRELIMINARY
49
LEGEND
POST INDICATOR VALVE (P.I.V.)
FIRE HYDRANT (F.H.)
MANHOLE
CATCH BASIN
LIGHT POLE
PIPE SUPPORT
ELECTRICAL MANHOLE
TELEPHONE MANHOLE
STREET WASHERS
VALVE BOX
TREES
NO. REVISIONS DATE DWN. BY APPD. NO. REVISIONS DATE DWN. BY APPD. REF. DWG. NO.
NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY
APPROVALS
CHEMICAL
CIVIL & STR.
ELECTRICAL
ENGINEER
INSTRUMENT
MECHANICAL
CHECKED
APPROVED
I.P.S. & T.
MAINTENANCE
NU. SAFETY
O.A.
PRODUCTION
FIRE & SAFETY
WASTE MANAGE
D.O.E.
SECURITY
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY
PLANTS 2+3
YARD AREA
GRID 19
UNDERGROUND UTILITIES
SCALE 1"=20'
22D-5500-P-00678
DATE 10-10-90
DRAWN J. KING
FILE NAME: ZFA6100,4GRID19U.DGN



NO.	REVISIONS	DATE	DWN.	APPD.	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
										22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS			
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NUL. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED			D.O.E.
APPROVED			SECURITY

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

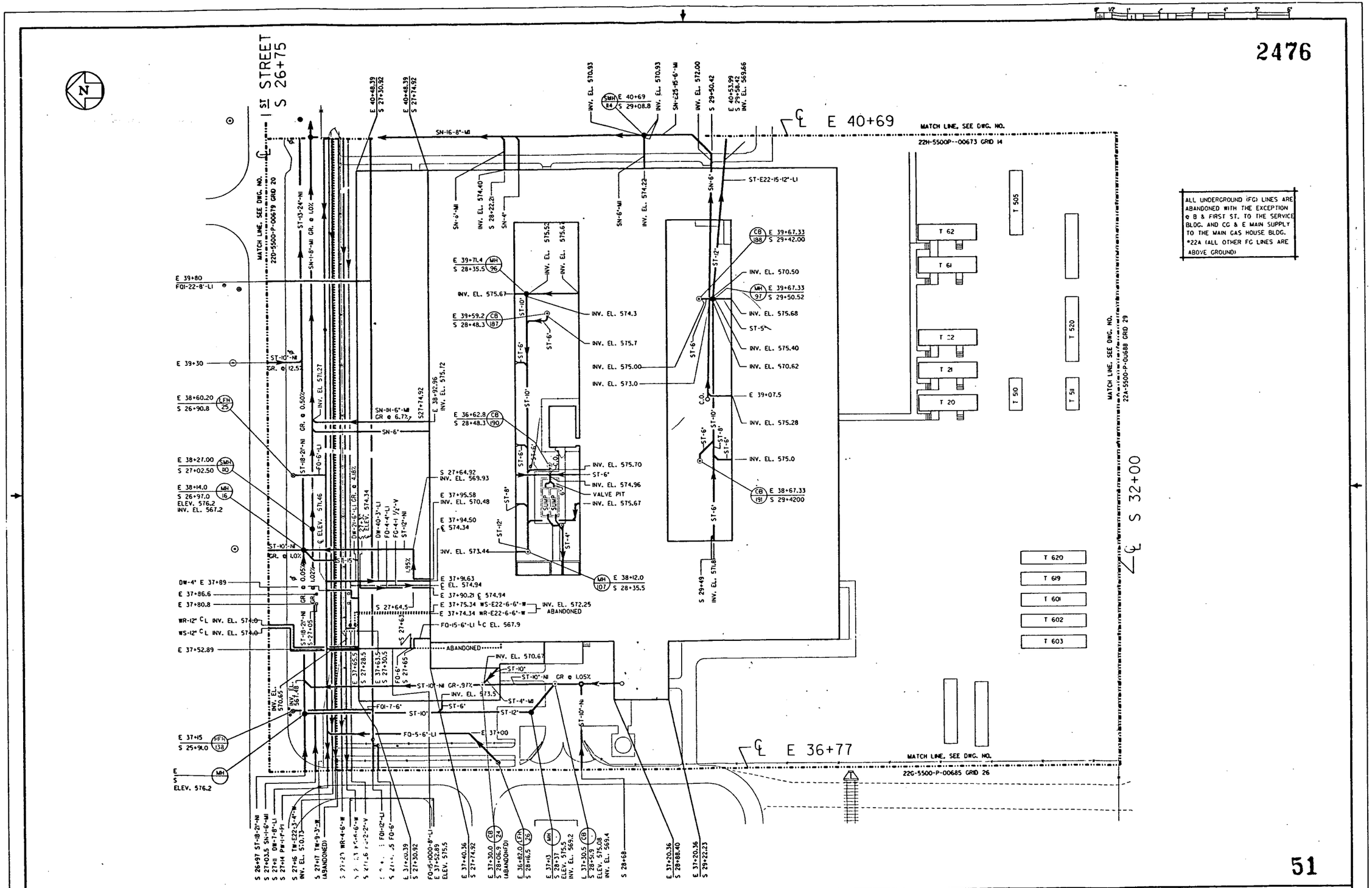
PLANT 8 — YARD AREA

GRID 20
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 7-10-90
DRAWN DEL TURPIN

22D-5500-P-00679 | 0

FILE NAME: ZFAI:(100,4)GRID20U.DGN



51

NO.	REVISIONS	DATE	DWN.	APPD.	NO.	REVISIONS	DATE	DWN.	APPD.	REF. DWG. NO.
										22X-5500-P-00659

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± 1/16
ANGLES ± 0° - 30'
DECIMALS
.X ± 0.4
.XX ± 0.08
.XXX ± 0.005
.XXX ± 0.0005
APPL. NOTES W/ DWG

APPROVALS			
CHEMICAL			H.P.S., B. & F.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NUL. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFET
			WASTE MANAGE
CHECKED		1/29	D.O.E.
APPROVED		1/29	SECURITY

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

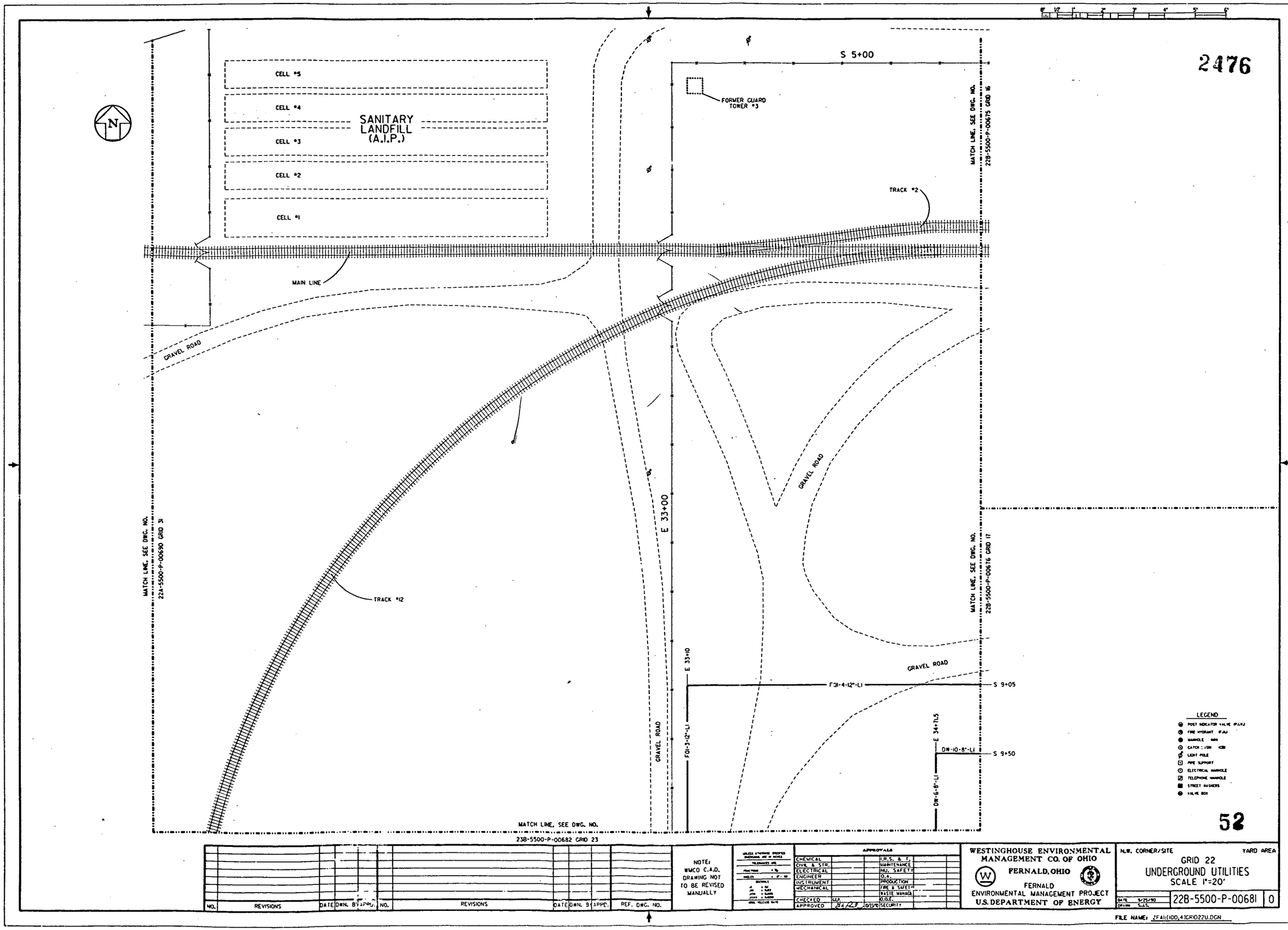
BLDGJ5-LAB. YARD AREA

GRID 21
UNDERGROUND UTILITIES
SCALE 1"=20'

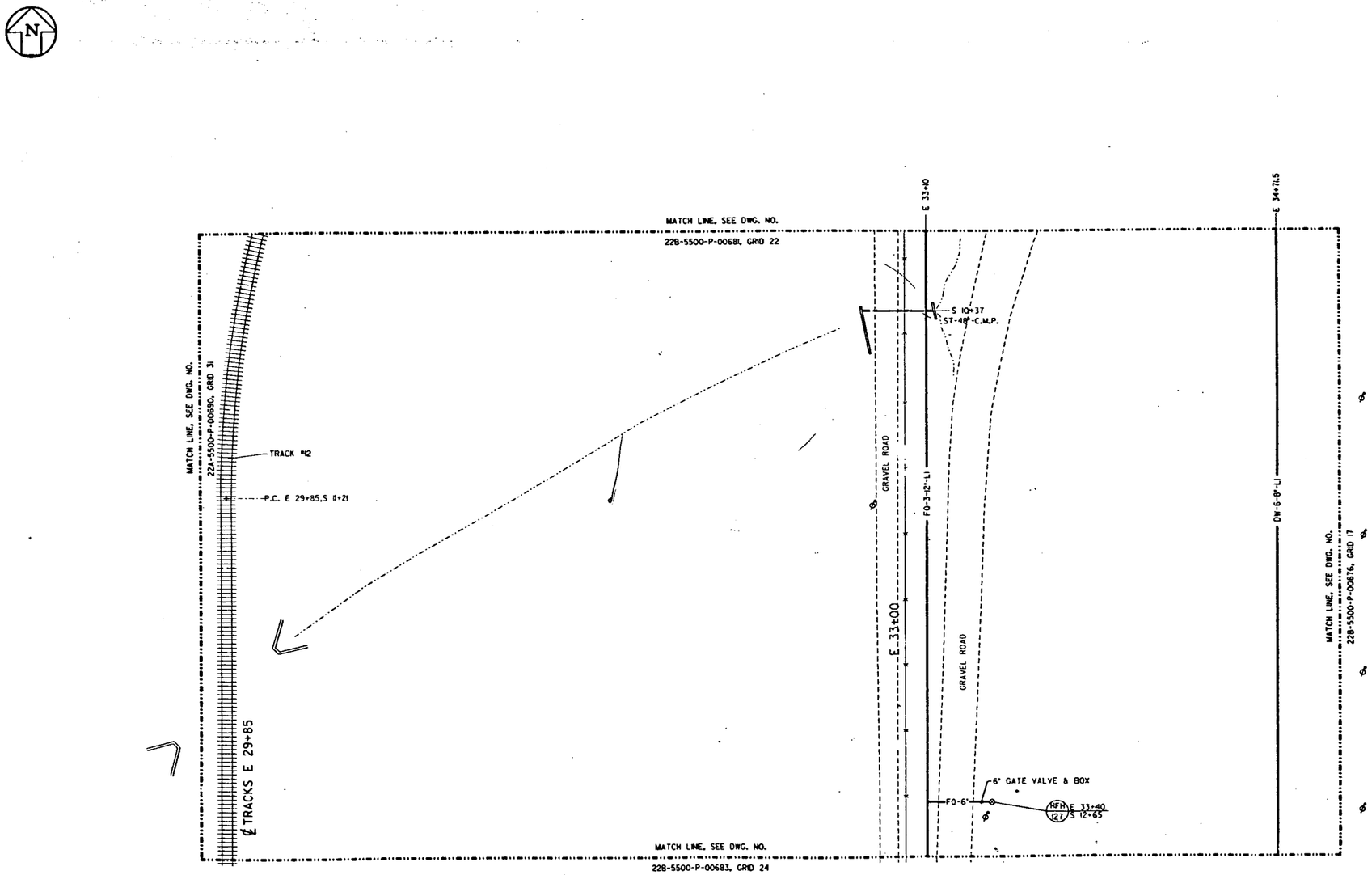
DATE 7/17/89
DRAWN DEL TURPIN

22G-5500-P-00680 | 0

FILE NAME: ZFAI:HOG,4JGRID21U.DGN


2476
N
CELL #5
CELL #4
CELL #3
CELL #2
CELL #1
SANITARY LANDFILL (A.I.P.)
S 5+00
FORMER GUARD TOWER #3
MATCH LINE, SEE DWG. NO. 22B-5500-P-00675 GRID 16
TRACK #2
MAIN LINE
GRAVEL ROAD
GRAVEL ROAD
E 33+00
MATCH LINE, SEE DWG. NO. 22A-5500-P-00690 GRID 31
TRACK #12
MATCH LINE, SEE DWG. NO. 22B-5500-P-00676 GRID 17
E 33+10
GRAVEL ROAD
F01-4-12"-L1
S 9+05
GRAVEL ROAD
F01-3-12"-L1
E 34+71.5
DW-10-8"-L1
S 9+50
DW-6-8"-L1
MATCH LINE, SEE DWG. NO. 23B-5500-P-00682 GRID 23
LEGEND
POST INDICATOR VALVE (P.I.V.)
FIRE HYDRANT (F.H.)
MANHOLE
CATCH BASIN
LIGHT POLE
PIPE SUPPORT
ELECTRICAL MANHOLE
TELEPHONE MANHOLE
STREET WASHERS
VALVE BOX
52
NO. REVISIONS DATE DWN. BY APPD. NO. REVISIONS DATE DWN. BY APPD. REF. DWG. NO.
NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY
APPROVALS
CHEMICAL
CIVIL & STR.
ELECTRICAL
ENGINEER
INSTRUMENT
MECHANICAL
CHECKED
APPROVED
I.R.S. & T.
MAINTENANCE
NU. SAFETY
Q.A.
PRODUCTION
FIRE & SAFETY
WASTE MANAGE
O.O.E.
SECURITY
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY
N.W. CORNER/SITE
YARD AREA
GRID 22
UNDERGROUND UTILITIES
SCALE 1"=20'
DATE 9/25/90
DRAWN S.A.S.
22B-5500-P-00681
0
FILE NAME: ZFAI:(100,4)GRID22U.DGN

2476



PLANT NO.1
STORAGE PAD

LEGEND

- POST INDICATOR VALVE (P.I.V.)
- FIRE HYDRANT (F.H.)
- MANHOLE
- CATCH BASIN
- LIGHT POLE
- PIPE SUPPORT
- ELECTRICAL MANHOLE
- TELEPHONE MANHOLE
- STREET WASHERS
- VALVE BOX

53

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

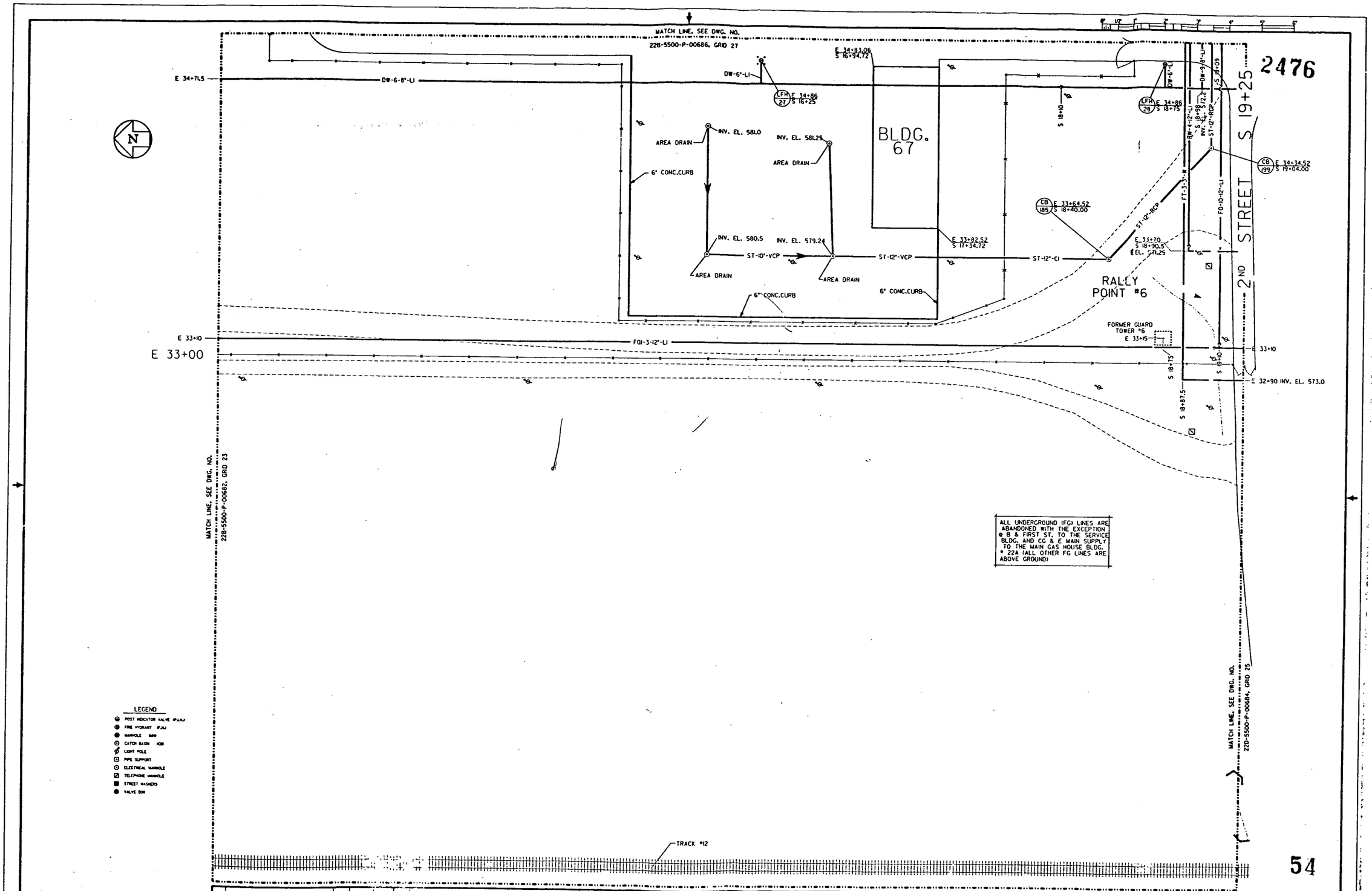
APPROVALS			
CHEMICAL			I.R.S. & T.
CIVIL & STR.			MAINTENANCE
ELECTRICAL			NU. SAFETY
ENGINEER			Q.A.
INSTRUMENT			PRODUCTION
MECHANICAL			FIRE & SAFETY
			WASTE MANAGE
CHECKED			D.O.E.
APPROVED		8/25/90	SECURITY

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

E. of BLDG.56 YARD AREA
GRID 23
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 9/25/90
DRAWN S.J.S.
22B-5500-P-00682 0

FILE NAME: ZFA1(100,4)GRID23U.DGN



NO.	REVISIONS	DATE	DWN. BY	APPD.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

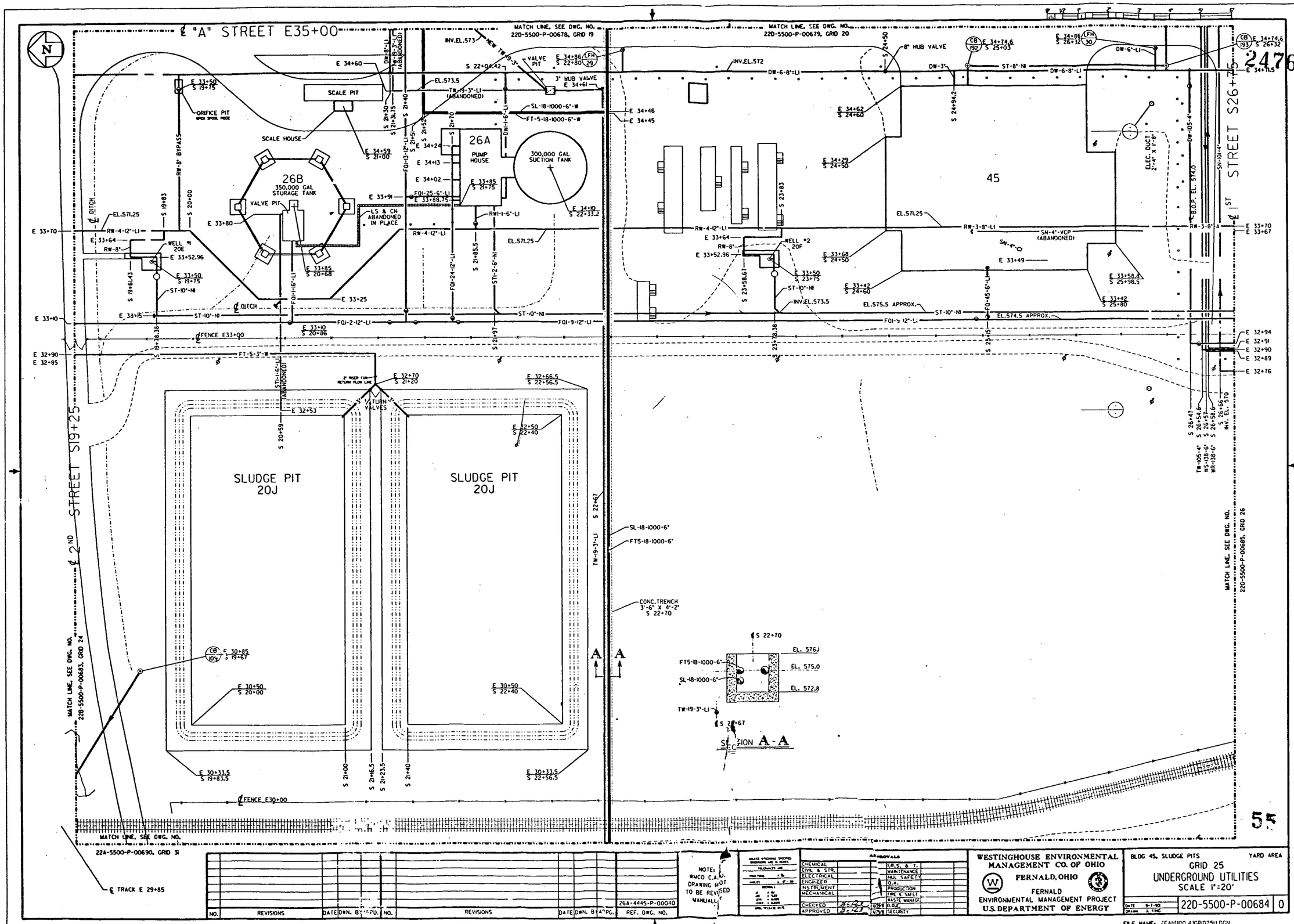
APPROVALS				
CHEMICAL			I.R.S. & T.	
CIVIL & STR.			MAINTENANCE	
ELECTRICAL			NU. SAFETY	
ENGINEER			Q.A.	
INSTRUMENT			PRODUCTION	
MECHANICAL			FIRE & SAFETY	
			WASTE MANAGE	
CHECKED	G.E.P.		D.O.E.	
APPROVED	[signature]	8/21/90	SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG. 67 YARD AREA
GRID 24
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 9/26/90
DRAWN S.J.S.
22B-5500-P-00683 0

FILE NAME: ZFA1(100,4)GRID24U.DGN



55

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.
										26A-4445-P-00040

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS

CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		Q.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFET	
		WASTE MANAGE	
CHECKED		D.O.E.	
APPROVED		SECURITY	

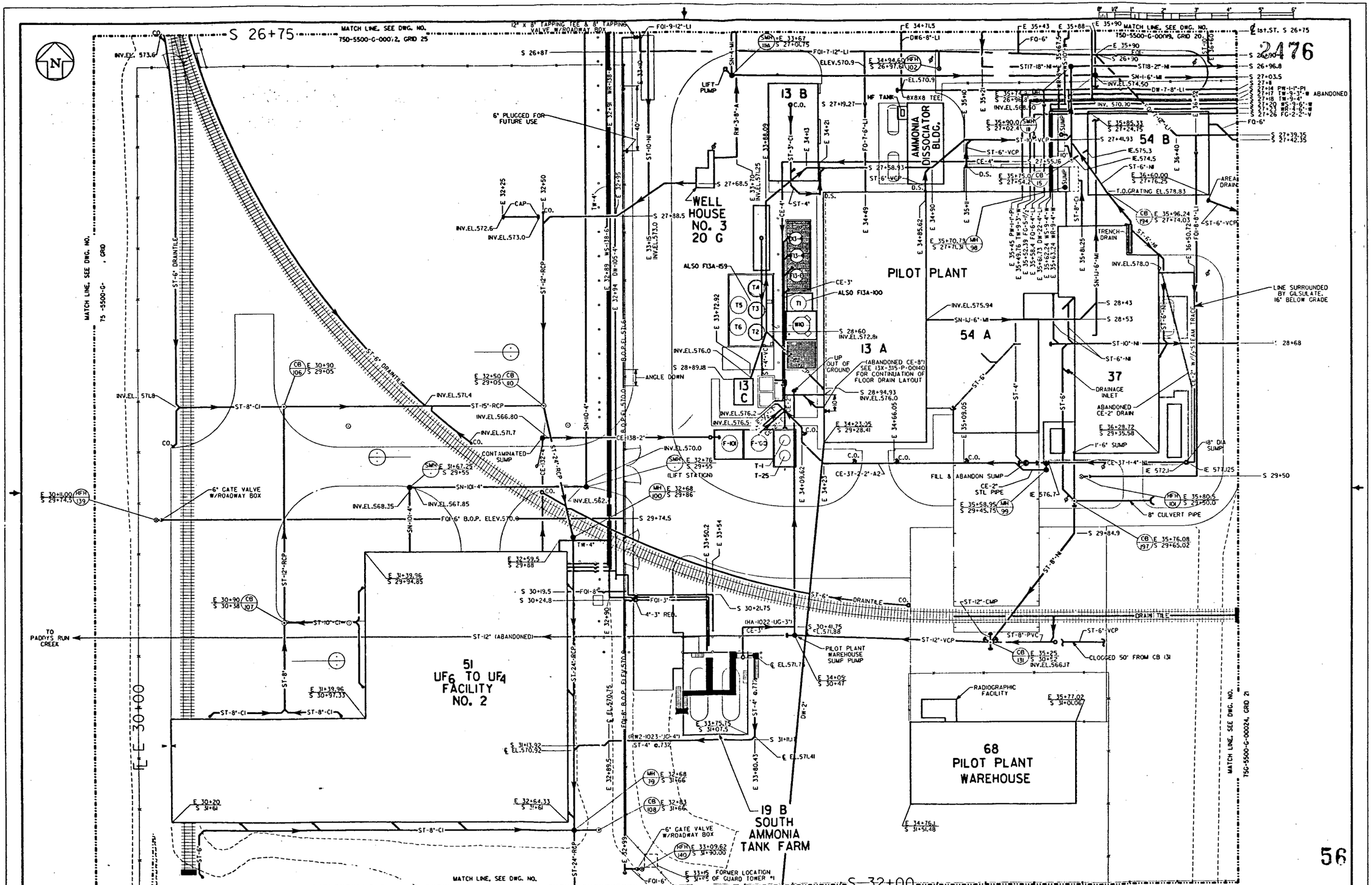
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

BLDG 45, SLUDGE PITS — YARD AREA
GRID 25
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 9-7-90
DRAWN J. KING

22D-5500-P-00684 | 0

FILE NAME: ZFAN100,41GRID25U.DGN



NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS			
CHEMICAL		I.R.S. & T.	
CIVIL & STR.		MAINTENANCE	
ELECTRICAL		NU. SAFETY	
ENGINEER		Q.A.	
INSTRUMENT		PRODUCTION	
MECHANICAL		FIRE & SAFETY	
		WASTE MANAGE	
CHECKED		D.O.E.	
APPROVED		SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

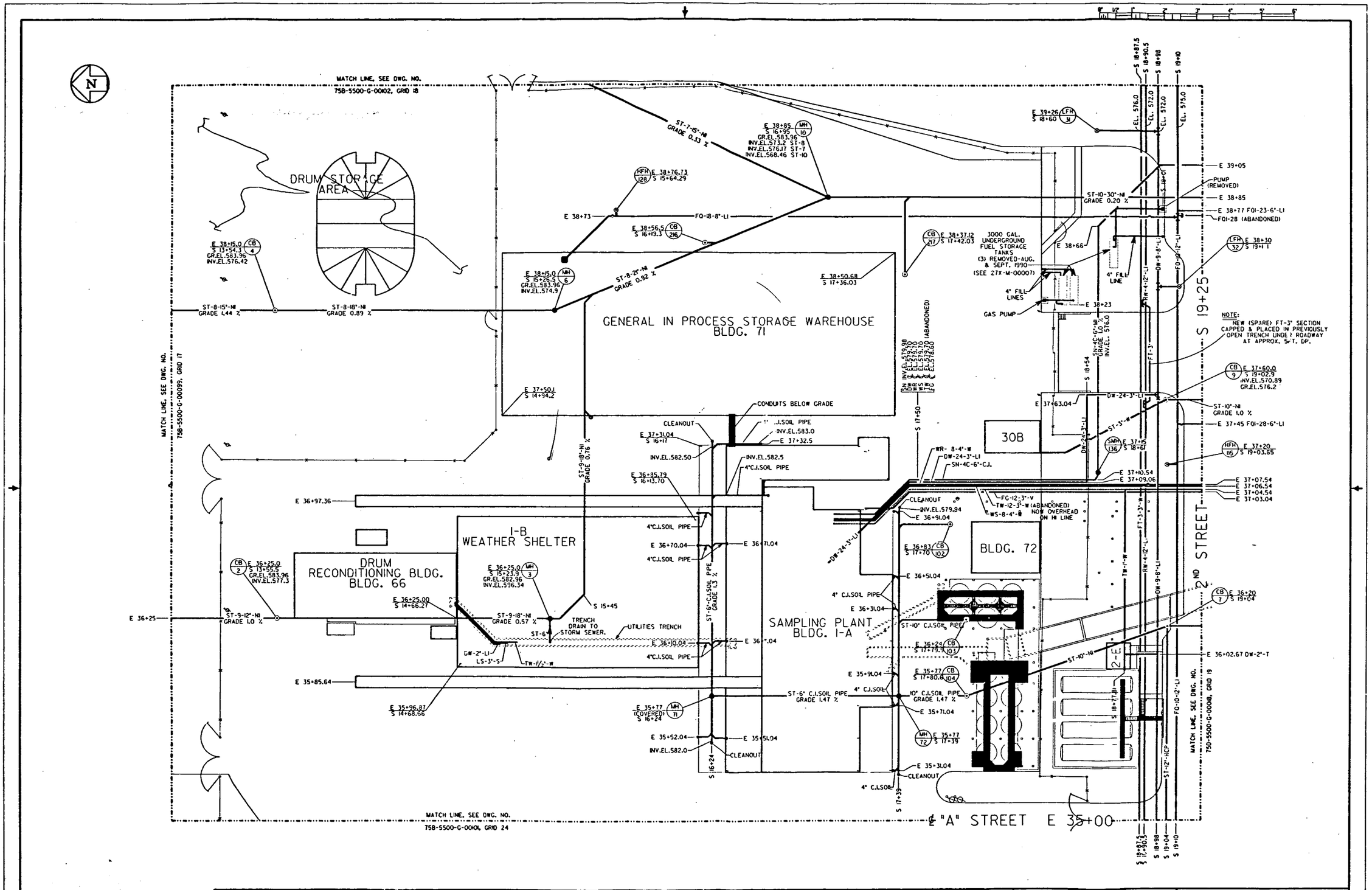
PILOT PLANT & BLDG 51 YARD AREA
GRID 26
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 9-5-90
DRAWN J. YING

22G-5500-P-00685 | 0

FILE NAME: ZFA:(100,4)GRID26U.DGN

2476



NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

APPROVALS				
CHEMICAL			H.R.S. & T.	
CIVIL & STR.			MAINTENANCE	
ELECTRICAL			INJ. SAFETY	
ENGINEER			Q.A.	
INSTRUMENT			PRODUCTION	
MECHANICAL			FIRE & SAFETY	
			WASTE MANAGE	
CHECKED		4/8/9	D.O.E.	
APPROVED		4/8/9	SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

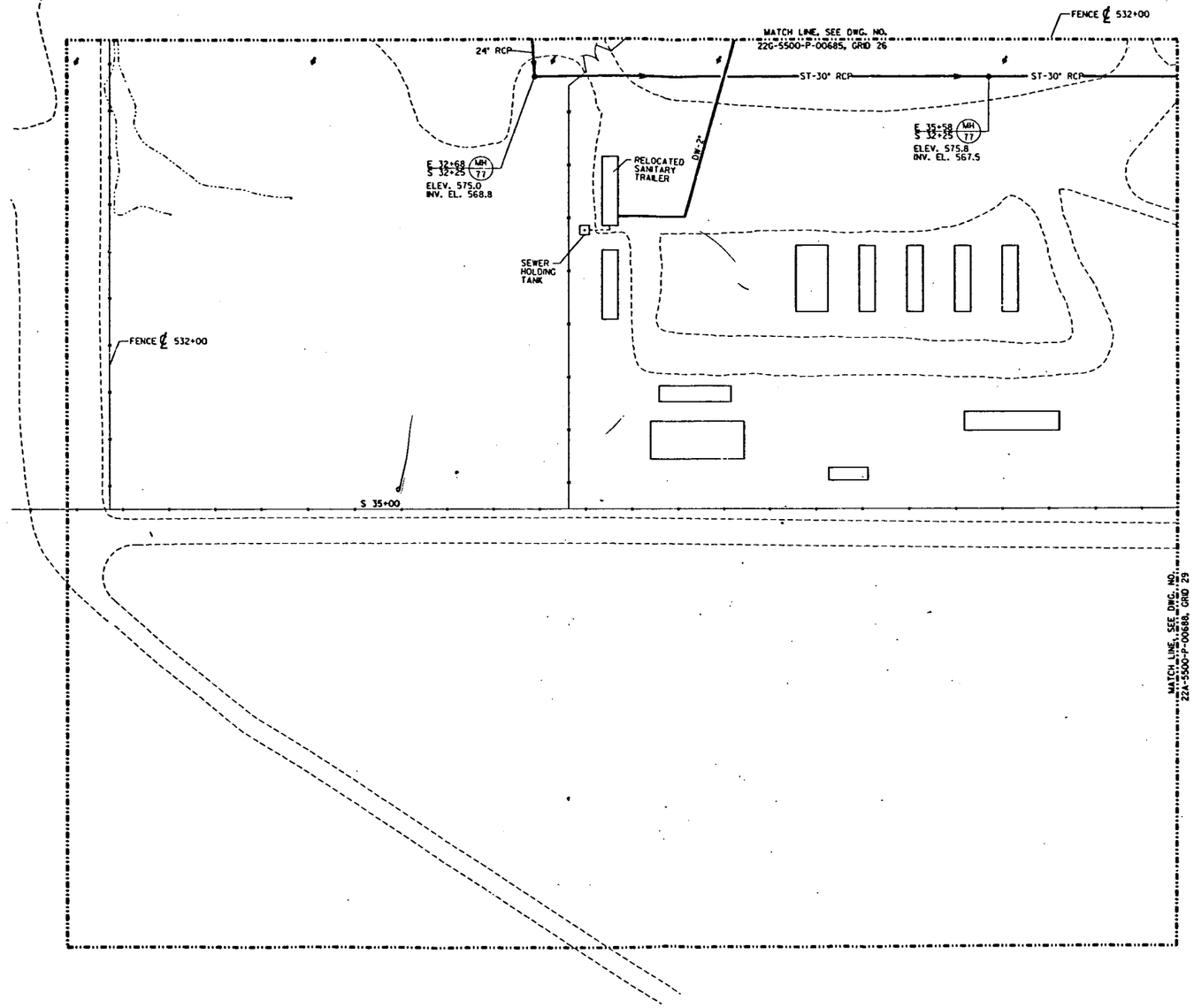
BLDGS. 66, 71 & 72 YARD AREA
GRID 27
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 9-25-90
22B-5500-P-00686 | 0

FILE NAME: ZFA1:[100,41]GRID27U.DGN

57

2476



58

NO.	REVISIONS	DATE	DWN. BY	CHK'D.	NO.	REVISIONS	DATE	DWN. BY	CHK'D.	REF. DWG. NO.

NOTE: WMCO C.A.D. DRAWING NOT TO BE REVISED MANUALLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± 1/16
ANGLES ± 0° - 30'
DECIMALS
.X ± 0.1
.XX ± 0.03
.XXX ± 0.005
.XXXX ± 0.0005
ORIG. RELEASE DATE

APPROVALS				
CHEMICAL			U.R.S. & T.	
CIVIL & STR.			MAINTENANCE	
ELECTRICAL			NU. SAFETY	
ENGINEER			Q.A.	
INSTRUMENT			PRODUCTION	
MECHANICAL			FIRE & SAFETY	
			WASTE MANAGE	
CHECKED	HERZ	1/93	O.O.E.	
APPROVED	HERZ	1/93	SECURITY	

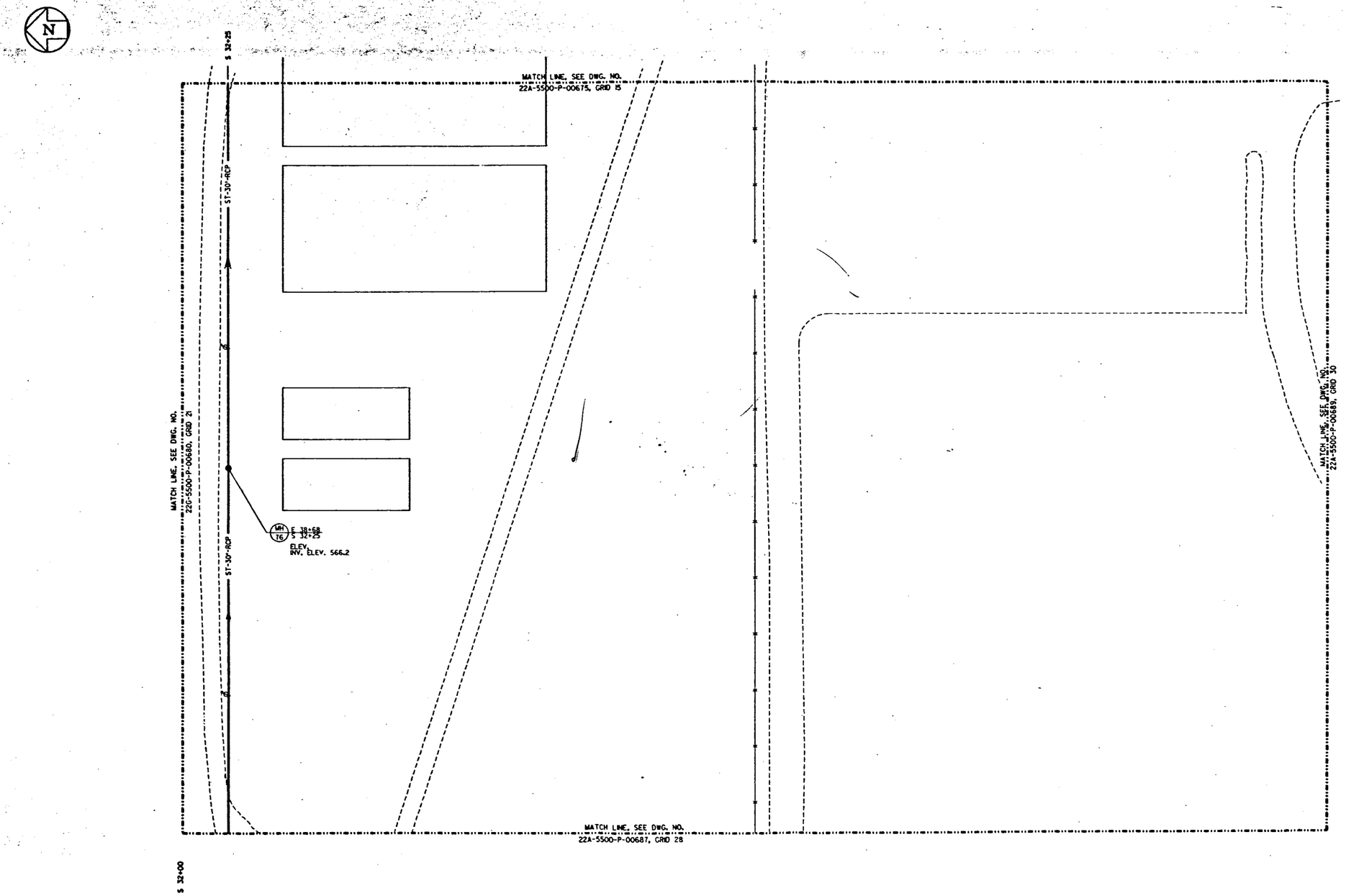
WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

SOUTH OF PILOT PLANT
GRID 28
UNDERGROUND UTILITIES
SCALE: 1" = 30'

DATE 2-9-93
DRAWN G. SCHWARZMAN

22A-5500-P-00687 | 0

FILE NAME: 22A1(IOC)4\GRID28U.DGN



59

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE:
WMCO C.A.D.
DRAWING NOT
TO BE REVISED
MANUALLY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE
FRACTIONS ± 1/16
ANGLES ± 0° - 30'
DECIMALS
.X ± 0.1
.XX ± 0.03
.XXX ± 0.005
.XXXX ± 0.0005
ORIG. RELEASE DATE

APPROVALS				
CHEMICAL			I.R.S. & T.	
CIVIL & STR.			MAINTENANCE	
ELECTRICAL			NU. SAFETY	
ENGINEER			Q.A.	
INSTRUMENT			PRODUCTION	
MECHANICAL			FIRE & SAFETY	
			WASTE MANAGE	
CHECKED			D.O.E.	
APPROVED			SECURITY	

WESTINGHOUSE ENVIRONMENTAL MANAGEMENT CO. OF OHIO
FERNALD, OHIO
FERNALD
ENVIRONMENTAL MANAGEMENT PROJECT
U.S. DEPARTMENT OF ENERGY

SOUTH OF BLDGS YARD AREA
GRID 29
UNDERGROUND UTILITIES
SCALE 1"=20'

DATE 8-2-90
DRAWN J. KING

22A-5500-P-00688 | 0

FILE NAME: ZFAH100,41GRID29U.DGN