AGRICULTURAL OPERATIONS • MINERALS DI
P.O. BOX 867 • BARTOW, FLORIDA 33830
TELEPHONE: AREA CODE 813 • 533-1121

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

August 8, 1979

Mr. J. Griffiths
Hillsborough County
Environmental Protection
Commission
1900 Ninth Avenue
Tampa, Florida 33605

$20.00

Dear Mr. Griffiths:

The attached application and copies cover the construction of an Animal Feed Ingredients storage facility at the IMC Terminal at Port Sutton. One copy and fee has been submitted to the Florida Department of Environmental Regulation. A check for $50.00 is included for the fee.

The proposed facility includes a truck unloading station and three silos. The material is granulated and generally contains little dust. A bag collector is to be installed on the silos as a precaution. It is unclear whether the use of this control device causes this installation to be considered an Air Pollution Source. This application has been prepared on this basis so that construction can proceed as quickly as possible, should you deem the issuance of a construction permit appropriate.

If any additional assistance or information can be provided, please contact me. Thank you for your attention in this matter.

Sincerely,

L. Lopez, Jr.
Terminal Manager

LLjr/cm
Attachments
pc: Robert Garrett, FDER

HAND DELIVERED this _____ day of August, 1979.

C. David Turley
Environmental Engineer

To Steve Smallwood

Date 8/14 Time

**WHILE YOU WERE OUT**

M Bob Hearon

of IMC-Bartow

Phone 813 533-1121
Area Code Number Extension

| | | | |
|---|---|---|---|
| TELEPHONED | X | PLEASE CALL | |
| CALLED TO SEE YOU | | WILL CALL AGAIN | X |
| WANTS TO SEE YOU | | URGENT | |
| | RETURNED YOUR CALL | | |

Message In the morning
Air cost. pmt.

JF
Operator

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO.

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION) Steve Smallwood, Tallahassee — INITIAL / DATE
2. — INITIAL / DATE
3. — INITIAL / DATE
4. — INITIAL / DATE

AUG 1979 RECEIVED BUREAU AQM

REMARKS:

Steve this is the Tier I application + $20.00 check we talked about on 8-9-79

Joe Griffiths, Hill County Local Program, is sending you copies from him today also.

Date Invoice Rec'd 8-9-79 By RHS
Date Goods Services Rec'd By
Date Goods Serv. Inspected / Appv'd By

INFORMATION
- REVIEW & RETURN
- REVIEW & FILE
- INITIAL & FORWARD

DISPOSITION
- REVIEW & RESPOND
- PREPARE RESPONSE
- FOR MY SIGNATURE
- FOR YOUR SIGNATURE
- LET'S DISCUSS
- SET UP MEETING
- INVESTIGATE & REPT
- INITIAL & FORWARD
- DISTRIBUTE
- CONCURRENCE
- FOR PROCESSING
- INITIAL & RETURN

FROM: Bob Garrett, Air Eng - Tampa.

DATE 8/9/79

PHONE

**BEST AVAILABLE COPY**

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000022822 COE# DER PROCESSOR:THOMAS DER OFFICE:TI
FILE NAME:IMC CORPORATION DATE FIRST REC: 08/09/79 APPLICATION TYPE:A
APPL NAME:CAMPBELL, COLIN A. APPL PHONE:(813)533-1121 PROJECT COUNTY:
ADDR:P.O. BOX 867 CITY:BARTOW ST:FLZIP:338
AGNT NAME:TURLEY, CHAS. D. AGNT PHONE:(813)533-1121
ADDR:P.O. BOX 867 CITY:BARTOW ST:FLZIP:338

ADDITIONAL INFO REQ: / / / / / / REC: / / / / / /
APPL COMPLETE DATE: / / COMMENTS NEC:Y DATE REQ: / / DATE REC: / /
LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / / /
HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / / /
HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:
*** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 08/14/79 12:14:32
FEE PD DATE#1:08/09/79 $0020 RECEIPT#00033501 REFUND DATE: / / REFUND $
FEE PD DATE#2: / / $ RECEIPT# REFUND DATE: / / REFUND $
APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:AC DATE:08/09/7
REMARKS:INTERNATIONAL MINERALS AND CHEMICAL CORPORATION, HILLSBOROUGH COUNTY, ANIMAL FEED INGREDIENT TRUCK UNLOADING STORAGE AND TRANSFER WITH BAG COLLECTOR. UTM-17, 360.1E/3087.5N. AT IMC TERMINAL, BLACK POINT, S.E. OF HOOKER POINT, ON HILLSBOROUGH BAY,(5.4 KM. SSW OF TSP NONATTAINMENT AREA CENTERPOINT).

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

**Nº 33501**

**RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE**

Received from INTERNATIONAL MINERALS & CHEM. CORP. Date 08/14/79

Address POINT BLACK (HILLSBOROUGH CO.) Dollars $ 20.00

Applicant Name & Address COLIN A. CAMPBELL

Source of Revenue

Revenue Code 0101 Application Number AC 22822

By M. Hoda

INTERNATIONAL MINERALS & CHEMICAL CORPORATION — ORE DEPOSITING — No. 59922

| DATE OF INVOICE | AMOUNT | DEDUCTIONS | DESCRIPTION | DISCOUNT | NET REMITTANCE |
|---|---|---|---|---|---|
| 8/6/79 | 20.00 | | In payment of Port Sutton air construction permit application for AFI storage | | 20.00 |

FORM 0-111 REV. 12-78

RECEIVED
AUG 9 1979
H.C.E.P.C.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

# APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Source Type: [X] Air Pollution [ ] Incinerator

Application Type: [x] Construction [ ] Operation [ ] Modification [ ] Renewal of DER Permit No. _____

Company Name: International Minerals & Chemical Corporation County: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): Animal Feed Ingredient truck unloading storage and transfer with bag collector

Source Location: Street: _____ City: _____

UTM: East 17-360.1 km North 3087.5

Latitude: ___ ___ ° ___ ___ ' ___ ___ "N. Longitude: ___ ___ ° ___ ___ ' ___ ___ "W.

Appl. Name and Title: Colin A. Campbell, Vice-President and General Manager, Fla. Minerals Opns.

Appl. Address: Post Office Box 867, Bartow, Florida 33830

## SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

### A. APPLICANT

I am the undersigned owner or authorized representative of* International Minerals & Chemical Corp.

I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

Colin A. Campbell
Name of Person Signing (please Type or Print)

Colin A. Campbell
Signature of the Owner or Authorized Representative and Title

Date: 8/7/79 Telephone No.: 813/533-1121

*Attach a letter of authorization.

### B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Charles David Turley

Name: Charles David Turley (Please Type)

Company Name: International Minerals & Chemical Corp.

Florida Registration Number: 23344

(Affix Seal)

Mailing Address: Post Office Box 867
Bartow, Florida 33830

Telephone No.: 813/533-1121

Date: 8/7/79

## SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

International Minerals & Chemical Corporation currently ships Animal Feed Ingredients to Port Sutton by rail where it is loaded directly from rail car to vessel. The proposed project will expand the flexibility of shipments by:
(1) providing dry storage at Port Sutton for AFI materials,
(2) providing a truck unloading station to reduce our dependence on rail car availability.
Fugitive dust will be controlled with covered conveyors and a bin vent type bag collector venting the silos and elevator.

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: Septmeber 1, 1979 Completion of Construction: July 1, 1980

C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

| | |
|---|---|
| Bag Collector, fan and compressor | $ 11,200 |
| Installation | 5,000 |
| Electrical | 4,000 |
| | $ 20,200 |

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

Operating Permit No. AO29-4549; issued 11/9/77, expires 9/30/79*

*renewal application filed.

E. Is the emission point considered to be a New* or Existing* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?
X New _____ Existing

F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? _____ Yes X No

G. Normal Equipment Operating Time: hrs/day: 13.8* ; days/wk: 5 ; wks/yr: 12 ; if seasonal, describe: _____

* See Attachment A.

*Note

New Source: any source which came into existence, began operation or construction, or received a permit for the latter on or after January 18, 1972.

*Existing Source: any source in existence, operating or under construction (or with a permit to construct) prior to January 18, 1972.

## [redacted] III: AIR POLLUTION SOURCES & CONTR[redacted]CES

(other than incinerators)

A. Raw Materials and Chemicals Used in Your Process:

| Description | Utilization Rate ~~lbs./hr.~~ TPH | Relate to Flow Diagram |
|---|---|---|
| Phosphate chemical | 120 | OU |
| | | |
| | | |
| | | |

B. Process Rate:

1) Total Process Input Rate (lbs./hr.): 120 TPH

2) Product Weight (lbs/hr): 120 TPH

C. Airborne Contaminants Discharged:

| Name of Contaminant | Actual Discharge* | | Allowed Discharge Rate Per Ch. 17-2, F.A.C.** | Allowable Discharge*** (lbs./hr.) | Relate to Flow Diagram |
|---|---|---|---|---|---|
| | lbs./hr. | T/yr. | | | |
| Particulate | 0.5 | 0.2 | PWR | 37.2 | OBCE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

D. Control Devices:

| Name and Type (Model and Serial No.) | Contaminant | Efficiency† | Range of Particles Size Collected (in microns) | Basis for Efficiency†† |
|---|---|---|---|---|
| Mikro-Pulsaire Bag | Particulate | See Attachment A | | |
| Collector, Style B, | | | | |
| Model 495-8-20 or | | | | |
| equivalent | | | | |
| | | | | |
| | | | | |
| | | | | |

*Estimate only if this is an application to construct.

**Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(a)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

***Using above example for a source with 260 million BTU per hour heat input: $\frac{0.1 \text{ lbs}}{\text{MMBTU}} \times \frac{260 \text{ MMBTU}}{\text{hr.}} = 26 \text{ lbs./hr.}$

†See Supplemental Requirements, page 5, number 2.

††Indicate whether the efficiency value is based upon performance testing of the device or design data.

E. Fuels: Does not apply.

| Type (Be Specific) | Consumption* | | Maximum Heat Input (MMBTU/hr) |
|---|---|---|---|
| | avg./hr. | Max./hr. | |
| | | | |
| | | | |
| | | | |
| | | | |

*Units: Natural Gas - MMCF/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lb./gal.

Heat Capacity: _____ BTU/lb. _____ BTU/gal.

Other Fuel Contaminants: _____

F. If applicable, indicate the percent of fuel used for space heating: Annual Average: _____ Maximum: _____

G. Indicate liquid or solid wastes generated and method of disposal:

Collected material will be recycled directly to material storage.

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack):

Stack Height: 97 ft. Stack Diameter: 12x12" ft.

Gas Flow Rate: 3000 ACFM Gas Exit Temperature: 70 °F

Water Vapor Content: <3 %

## SECTION IV: INCINERATOR INFORMATION

| Type of Waste | Type 0 (Plastics) | Type I (Rubbish) | Type II (Refuse) | Type III (Garbage) | Type IV (Pathological) | Type V (Liq. & Gas By-prod.) | Type VI (Solid By-prod.) |
|---|---|---|---|---|---|---|---|
| Lbs./Hr. Incinerated | | | | | | | |

Description of Waste: _____

Total Weight Incinerated (lbs./hr.): _____ Design Capacity (lbs./hr.): _____

Approximate Number of Hours of Operation per Day: _____ , days/week: _____

Manufacturer: _____

Date Constructed: _____ Model No.: _____

| | Volume $(ft.)^3$ | Heat Release (BTU/hr.) | Fuel | | Temp. (°F) |
|---|---|---|---|---|---|
| | | | Type | BTU/hr. | |
| Primary Chamber | | | | | |
| Secondary Chamber | | | | | |

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp.: _____ °F

Gas Flow Rate: _____ ACFM _____ DSCFM*

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of Pollution Control Device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (Specify): _____

Brief Description of Operating Characteristics of Control Device: _____

Ultimate Disposal of Any Effluent Other Than That Emitted From the Stack (scrubber water, ash, etc.): _____

## SECTION V: SUPPLEMENTAL REQUIREMENTS

**Please Provide the Following Supplements Required For All Pollution Sources:**

1. Total process input rate and product weight - show derivation.
2. Efficiency estimation of control device(s) - show derivation. Include pertinent test and/or design data.
3. An 8½" x 11" flow diagram, which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
4. An 8½" x 11" plot plan of facility showing the exact location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.
5. An 8½" x 11" plot plan showing the exact location of the establishment, and points of airborne emissions in relation to the surrounding area, residances and other permanent structures and roadways. (Example: Copy of USGS topographic map.)
6. Description and sketch of storm water control measures taken both during and after construction.
7. An application fee of $20.00, unless exempted by Chapter 17-4.05(3), FAC, made payable to the Department of Environmental Regulation.
8. With construction permit application, include design details for control device(s). Example: for baghouse, include cloth to air ratio; for scrubber, include cross-sectional sketch; etc.
9. Certification by the P.E. with the operation permit application that the source was constructed as shown in the construction permit application.

ATTACHMENT A

## SYSTEM DESCRIPTION

Three storage silos are to be constructed. Animal Feed Ingredients (AFI) are to be transferred to the silos via a 24" conveyor and bucket elevator (and second conveyor to west silo) from a truck unloading hopper. AFI are granular phosphate chemicals. The use of sealed and covered conveying devices will be extensive for this project. These precautions are made to prevent contamination into the AFI. They will secondarily serve as dust control measures should any dust be present in the granular material.

The storage silos are to be sealed to the points of transfer. A bag collector will be installed on the middle silo and vent the three silos via interconnections. The collector is sized such that it will relieve displacement volume of incoming material and draft feed chutes of elevator or conveyor. The use of the bag collector insures the ability to seal the silos from contamination.

## PROCESS WEIGHT RATE

Truck Unloading Design Rate 120 TPH
Shiploading Design Rate 1500 to 1800 TPH

Estimated annual tonnage 100,000 tons

Operating Hours 100,000/120 = 833 hrs/yr
= 2.3 hrs/day AVERAGE

Unloading expected approximately 5 days/month or

833/5/12 = 13.8 hrs/day

## EMISSIONS

Minimum Collector Guarantee: 0.02 gr/scf
Operation Parameters: 3000 cfm @ A/C = 6.49 fpm
Emission: 3000 x 0.02 x 60/7000 = 0.5 lb/hr
0.5 x 833/2000 = 0.2 TPY

# State of Florida

## Department of State

I certify from the records of this office that INTERNATIONAL MINERALS & CHEMICAL CORPORATION, is a corporation organized under the laws of the State of New York, and is authorized to transact business within the State of Florida.

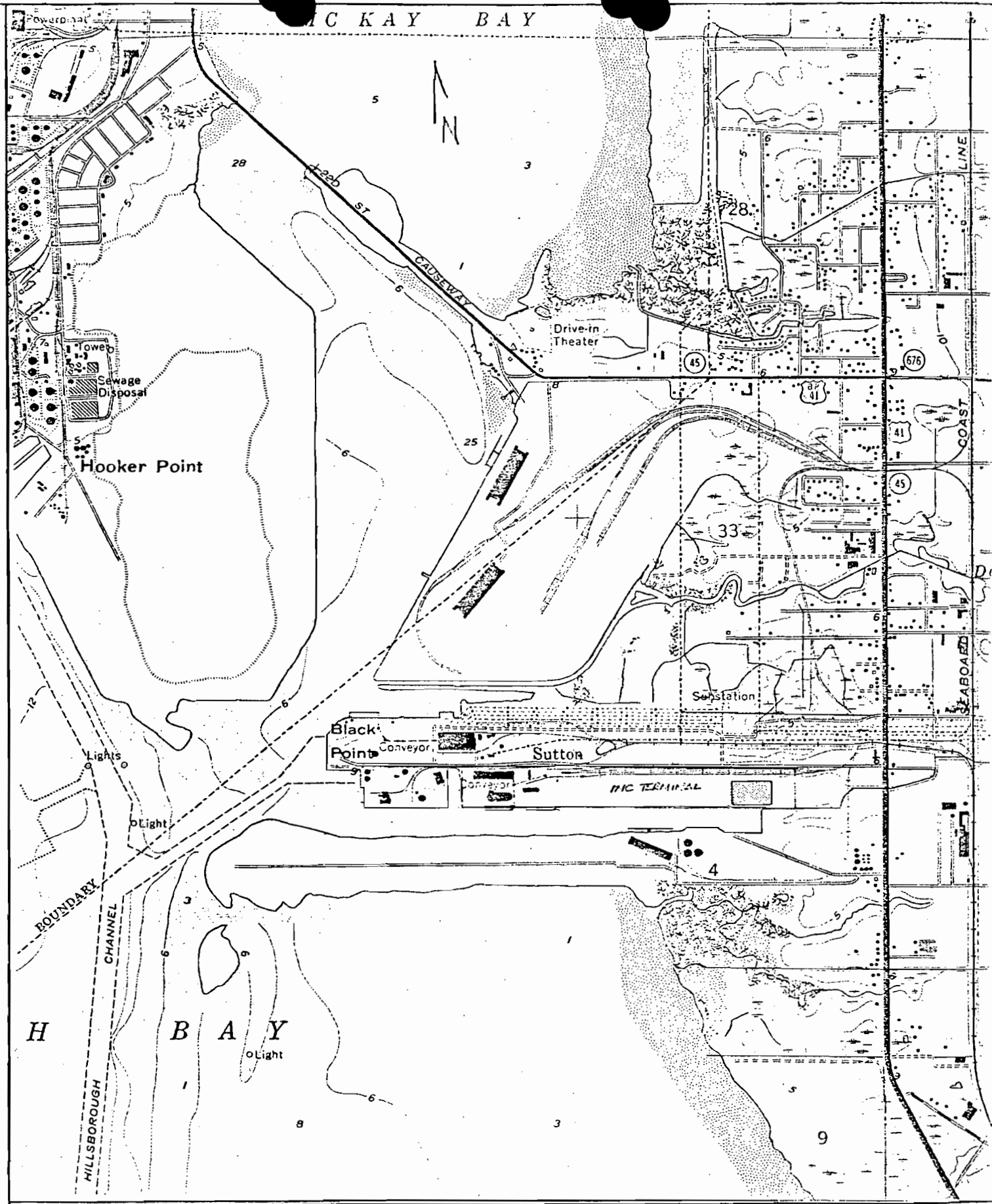
The charter number for this corporation is 800412.

I further certify that said corporation has filed all annual reports and has paid all annual report filing fees due this office through December 31, 1979, and its status is active.

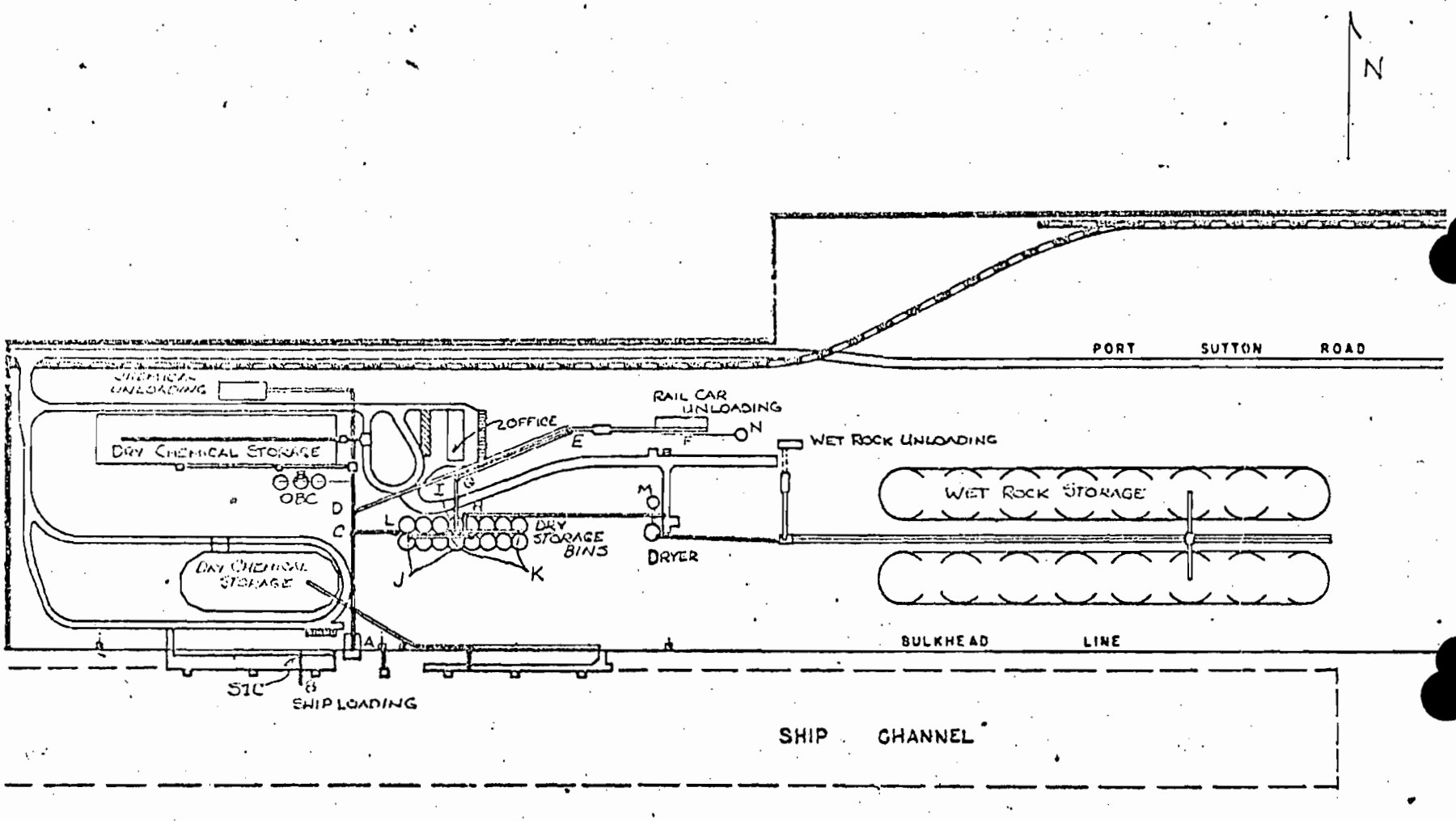
Given under my hand and the Great Seal of the State of Florida, at Tallahassee, the Capital, this the 6th day of June, 1979.

Secretary of State

CER 101
12-78




| | | |
|---|---|---|
| DRAWN BY: CCT | TITLE: IMC TERMINAL LOCATION MAP | INTERNATIONAL MINERALS & CHEMICAL CORPORATION |
| DATE: | | ADDRESS: |
| SCALE: | | LOCATION / SKETCH NO. |
| REVISION: | | DIVISION / FILE NO. |




IMC TERMINAL
PORT SUTTON

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

ADDRESS:
LOCATION

DIVISION

SKETCH NO.

FILE NO.

DRAWN BY:

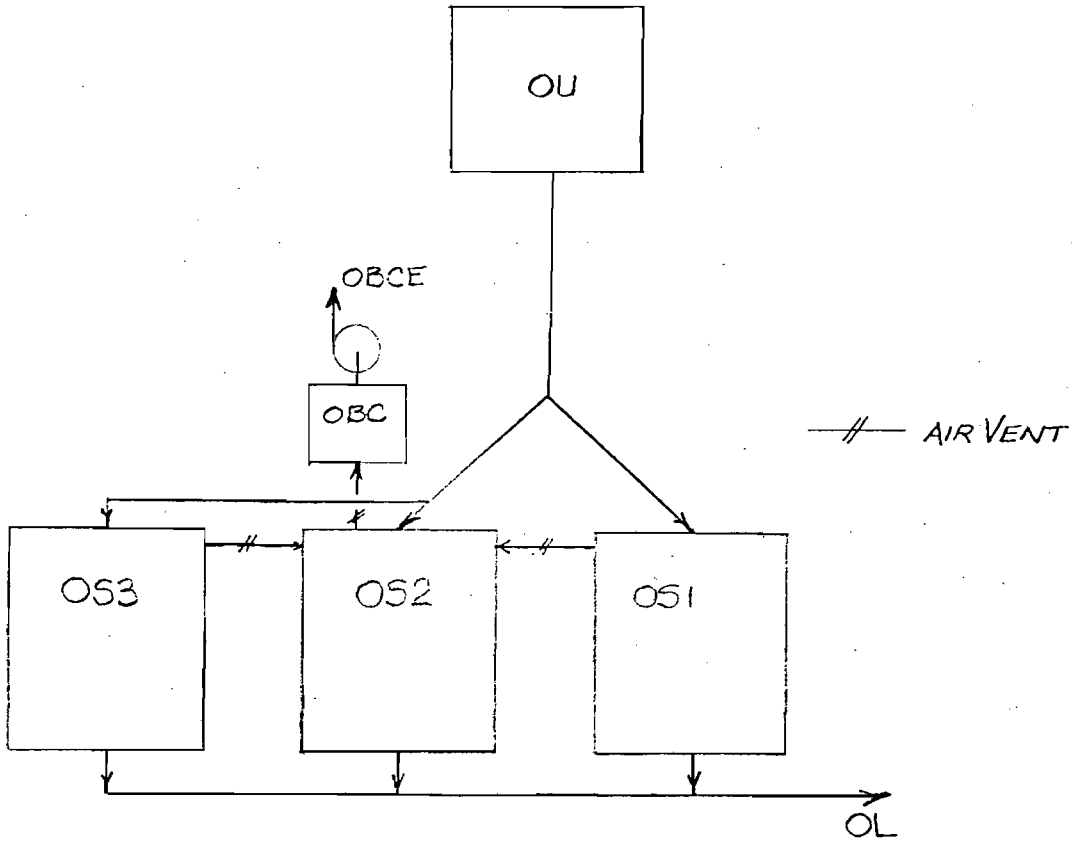
DATE:

SCALE:

REVISION:

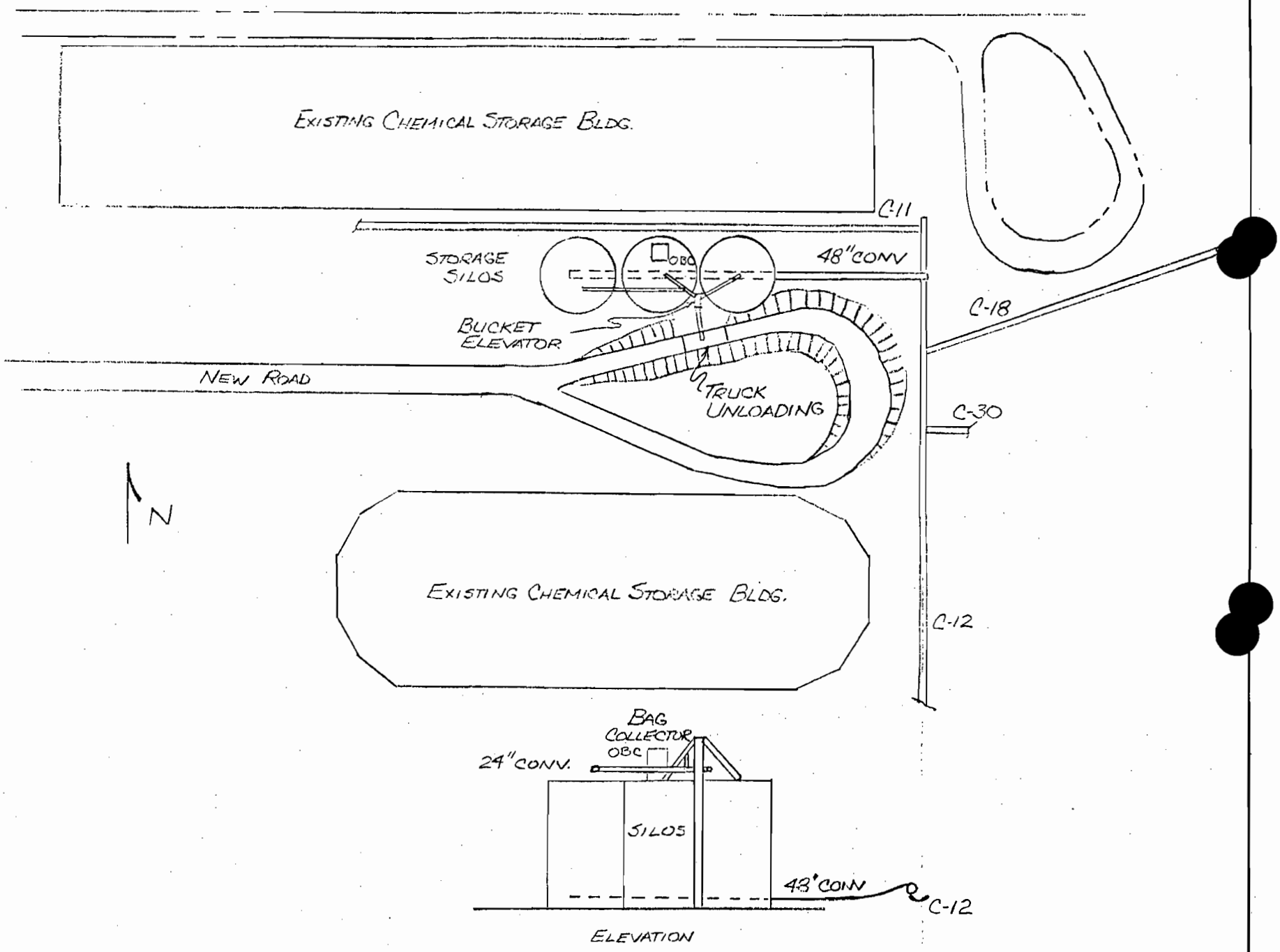
TITLE:

PRINTED IN U.S.




OU - AFI TRUCK UNLOADING FACILITY
OS1 - AFI STORAGE SILO (EAST)
OS2 - AFI STORAGE SILO (MIDDLE)
OS3 - AFI STORAGE SILO (WEST)
OL - AFI TRANSFER TO SHIPLOADING
OBC - SILOS VENT BAG COLLECTOR
OBCE - BAG COLLECTOR EXHALIST

| | | |
|---|---|---|
| DRAWN BY: | TITLE: | INTERNATIONAL MINERALS & CHEMICAL CORPORATION |
| DATE: | | ADDRESS: |
| SCALE: | | LOCATION / SKETCH NO. |
| REVISION: | | DIVISION / FILE NO. |




DRAWN BY: CDT

DATE: 8/6/79

SCALE: 1" = 100'

REVISION:

TITLE: PLAN VIEW AFI STORAGE AND UNLOADING FACILITY

**INTERNATIONAL MINERALS & CHEMICAL CORPORATION**

ADDRESS: BARTOW, FLA

LOCATION: PORT SUTTON

DIVISION:

SKETCH NO.

FILE NO.

FORM 0-205 REV. 74

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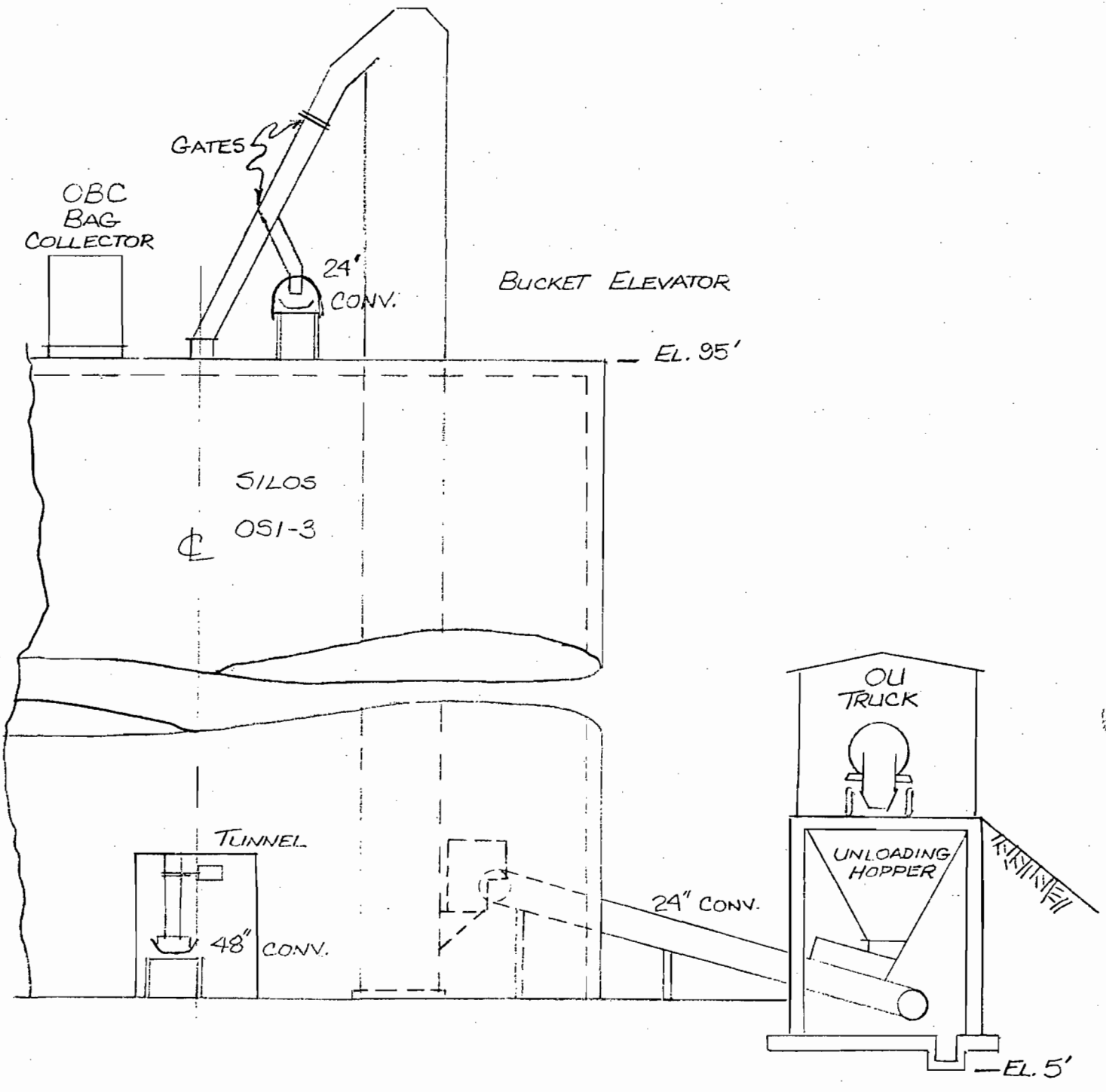


| | | |
|---|---|---|
| DRAWN BY: CDT | TITLE: ELEVATION LOOKING EAST AFI STORAGE AND UNLOADING FACILITY | INTERNATIONAL MINERALS & CHEMICAL CORPORATION |
| DATE: 8/6/79 | | ADDRESS: BARTOW, FLA |
| SCALE: 1" = 10' | | LOCATION PORT SUTTON / SKETCH NO. |
| REVISION: | | DIVISION / FILE NO. |