

Acme Coke
11236 S. Torrence Ave.
Chicago IL 60617



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Gas Bleeder Inspection
Dated: 1977

Recovered from site on Feb 20 2021

INTEROFFICE
CORRESPONDENCE

Copies to:

Date: April 22, 1977

To: J. T. Seaman
From: D. A. Masson
Subject: Chicago Coke Plant
Bleeder Stack
Reference:

Per a request from Mr. R. Marshall, an emergency inspection was performed on the Coke Plant Bleeder Stack to determine the amount of stack movement from vertical position. This concern was precipitated by discovery of an area of buckled shell plate at the base of the stack. At the time of the inspection, reinforcing plates and stiffeners were being installed at the damaged area. (Deterioration and recommended repairs were noted in inspection report dated September 21, 1976).

The stack appears to have taken a permanent set of approximately 4-1/2 inches out of plumb. Per observations and calculations made by Mr. D. Juricic, there is no cause for concern over the 4-1/2 inch deflection nor are further repairs (other than those recommended in the report of September 21, 1976) required at this time.

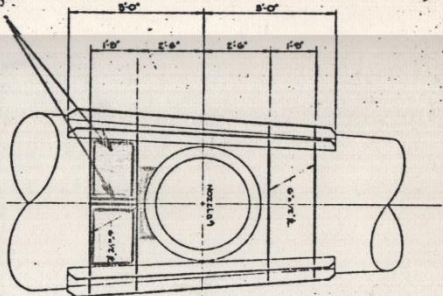
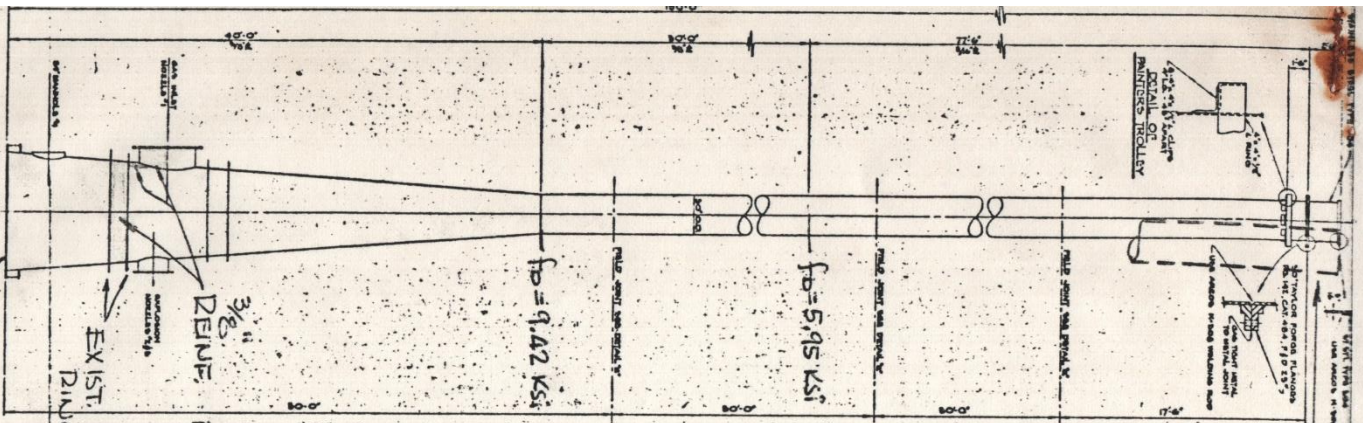
If you have any further questions, please contact me.

D. A. Masson

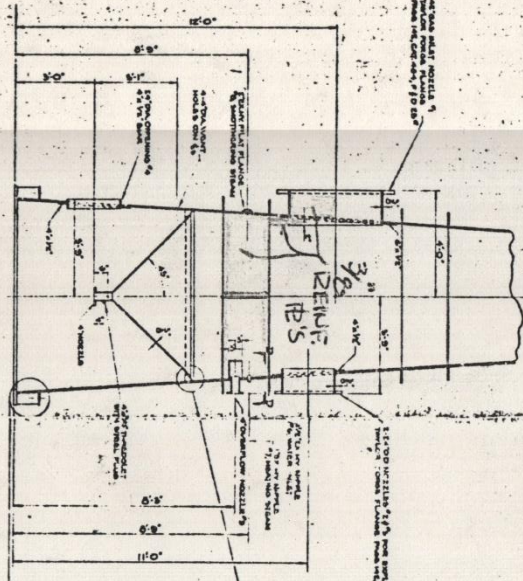
DAM/vip

Enclosure

MAX. DEFLECTION DUE TO WIND = 16 1/2"



3/8" REINF. RINGS & STIFFENERS ADDED ALL AROUND



NOTE: STRESSES & DEFLECTION FIGURED ON 20 PSF WIND LOAD PER CHICAGO BLDG CODE.

NOTED PER FIELD INSPECTION

REPAIRS TO BLEEDER STACK

4-6-77

NOTE:

NOTE TO BE READING CONSTRUCTION LIMITS... ALL TO BE CONSTRUCTION LIMITS... REPAIRS TO BE MADE TO ALL CRACKS... REPAIRS TO BE MADE TO ALL CRACKS... REPAIRS TO BE MADE TO ALL CRACKS...

REFERENCE DRAWING:

CONCRETE REINFORCED... REPAIRS TO BE MADE TO ALL CRACKS... REPAIRS TO BE MADE TO ALL CRACKS...

WILBUR SMITH & COMPANY, INC. ENGINEERS

NO.	DATE	DESCRIPTION
1	4-6-77	REPAIRS TO BLEEDER STACK

37588

1976 INSPECTION OF COKE
GAS BLEEDER STACK

INTERLAKE, INC.
Chicago Plant
Chicago, Illinois

By: T. J. Stahulak
I.T.C.

Approved: W. J. Hynnes, S.E.
Supervisor - Structural Design

Approved: T. R. Kinney, S.E.
Chief Engineer - Design

Purpose and Scope of Inspection

The inspection was made to determine the extent of deterioration of the shell plate of the Coke Gas Bleeder Stack Base.

Method of Inspection

The inspection was made using scrapers, wire brushes, and an ultrasonic thickness tester. Thickness readings were taken on the northeast, northwest, southeast, and southwest elevations.

Plant Contact and Information

All plant information was obtained from G. Durkin of the Chicago Coke Plant.

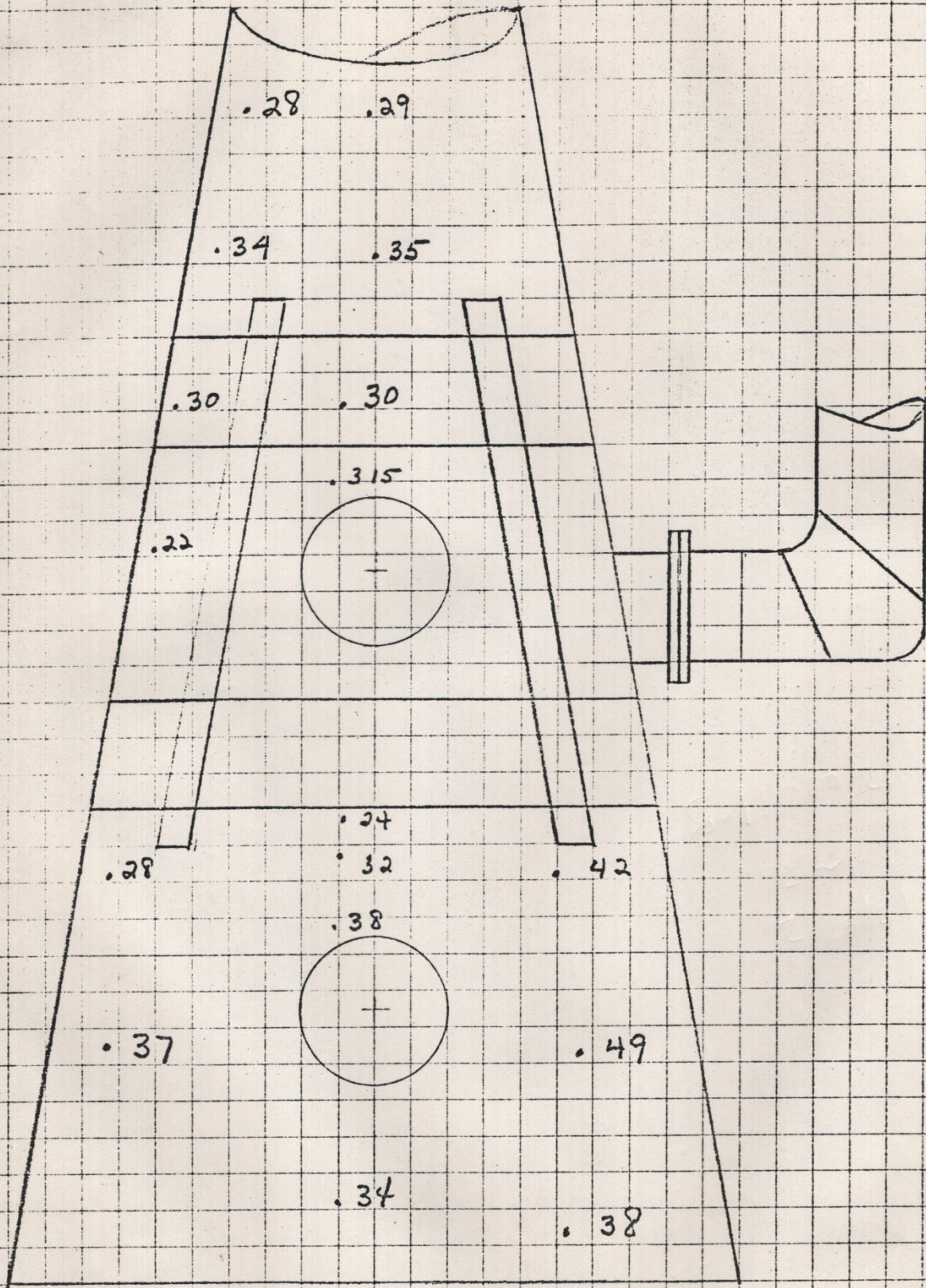
Date of Inspection and Inspectors

The inspection was made on September 21, 1976 by G. Logothetis, G. Filippo, M. Winge and R. McGlynn of I.T.C.

Results of Inspection and Conclusion

- Northeast side: The overall average thickness of the shell plate on the northeast side is 9/32" to 3/8" with thin areas of 3/16" to 1/4". Refer to Sketch EC-1. The thin areas of 3/16 or less should be patched.
- Northwest side: The overall average thickness of the shell plate on the northwest side is 1/4" to 3/8", with thin areas of 0" (100% deterioration) to 3/16". There are two holes 1" x 1" and 3/4" x 1-1/2" in the side of the stack approximately 9'-0" from the ground. The thin areas of shell plate of 3/16 or less should be patched. (Refer to Sketch EC-2).
- Southeast side: The overall average thickness of the shell plate on the southeast side is 1/4" to 3/8" with thin areas of 0" (100% deterioration) to 3/16". There is one hole 1/2" x 2" in the side of the stack approximately 9'-0" from the ground. The thin areas of shell plate of 3/16" or less should be patched. (Refer to Sketch EC-3).
- Southwest side: The overall average thickness of the shell plate on the southwest side is 1/4" to 3/8" with thin areas of 1/16" to 3/16". The thin areas of shell plate of 3/16" or less should be patched.

The original thickness of the Coke Gas Bleeder Stack Base is 3/8". The thin areas of the stack base should be monitored on a semi-annual basis for future deterioration..



DESCRIPTION *Gas Bleeder Stack*
NORTH EAST Side View

DATE *8/28/76*

DR. *TJS*

APP.

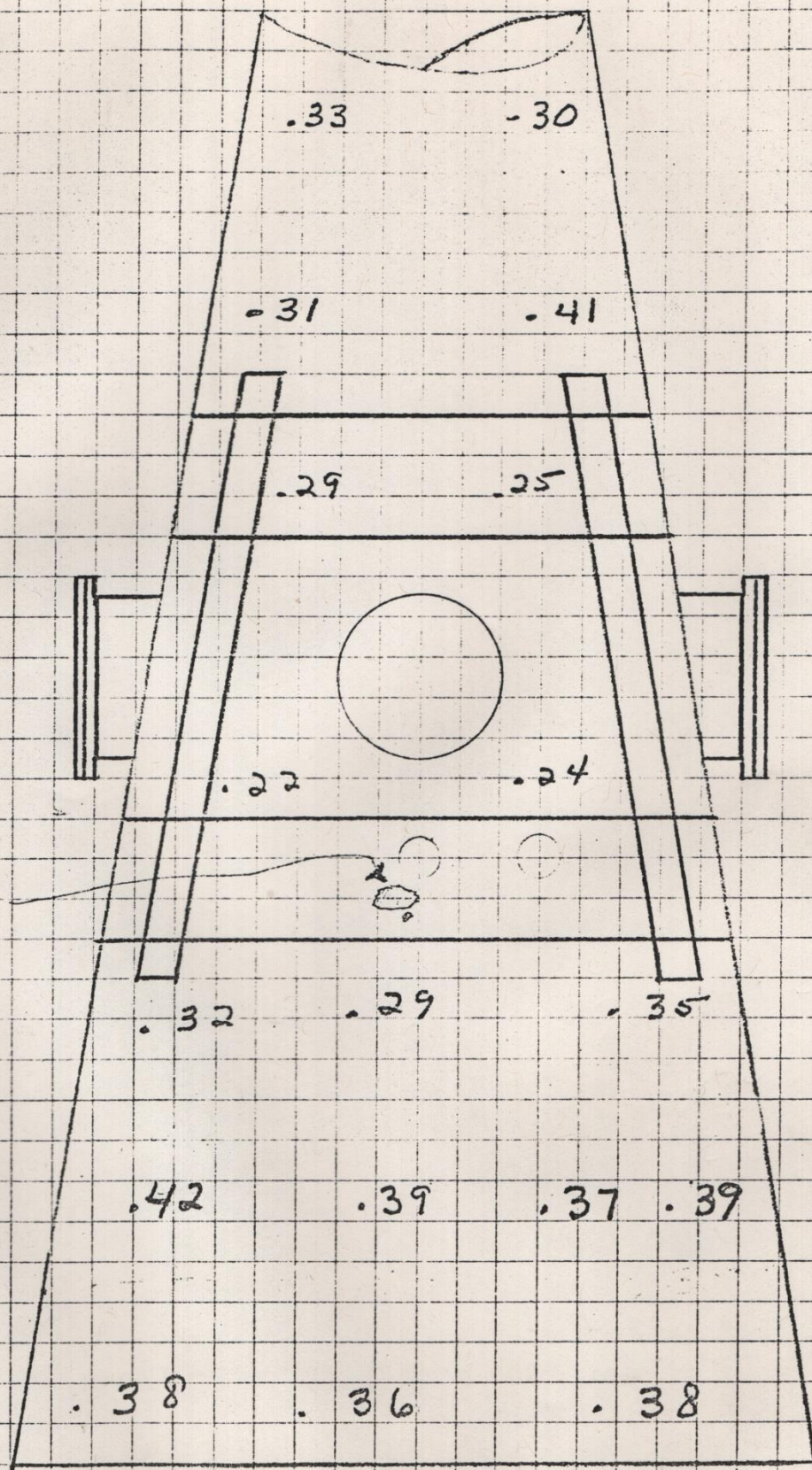
CHARGE SYMBOLS

INTERLAKE, INC.

LOCATION

SKETCH NO.

EC 1



100% deterioration
 1 hole 1" x 1"
 1 hole 3/4" x 1/2"

DATE 9/28/76

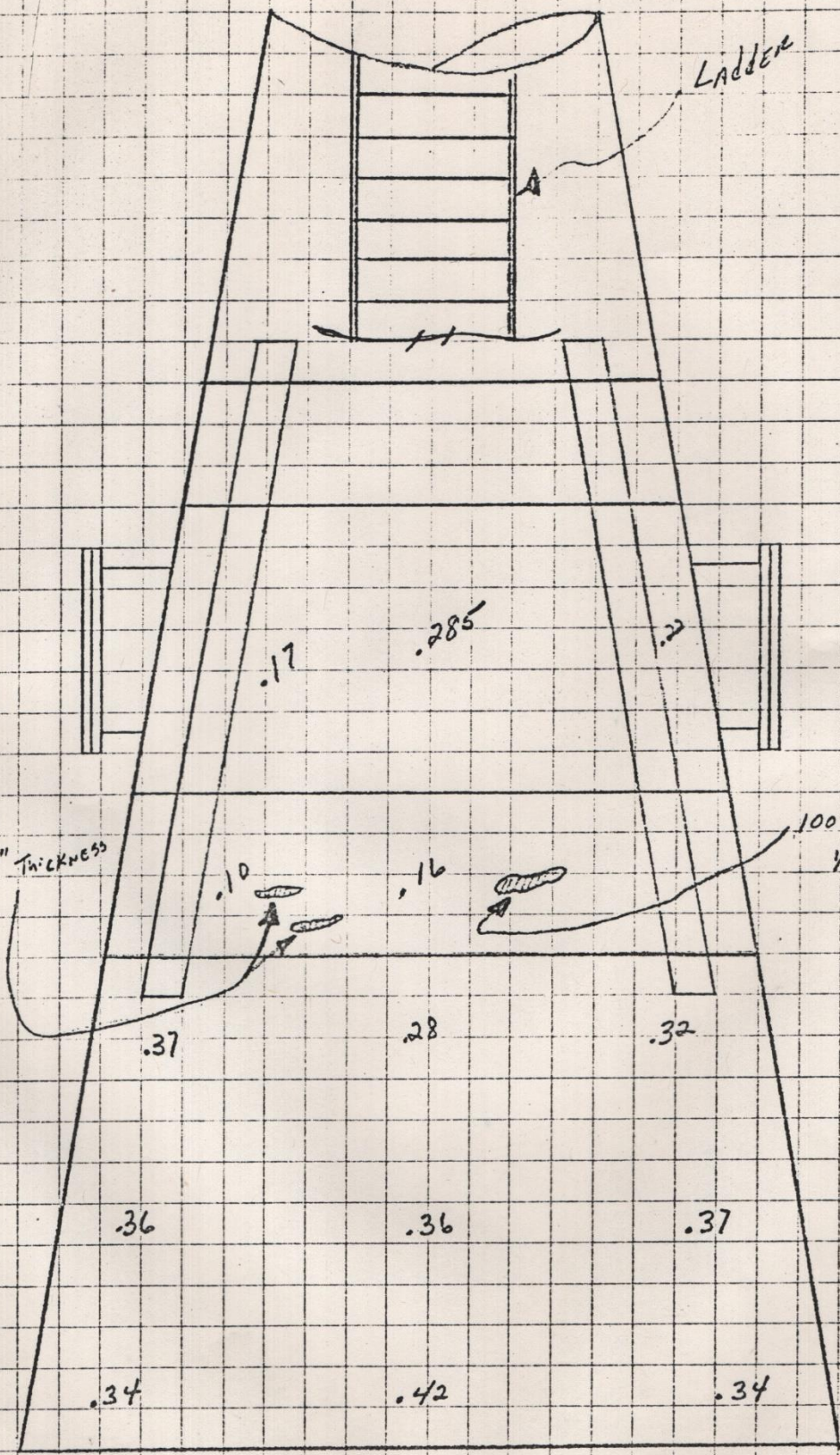
DR. T.J.S.

INTERLAKE, INC.

DESCRIPTION GAS BLEEDER STACK
 NORTHWEST SIDE VIEW

APP.
 CHARGE SYMBOLS

LOCATION
 SKETCH NO. EC 2



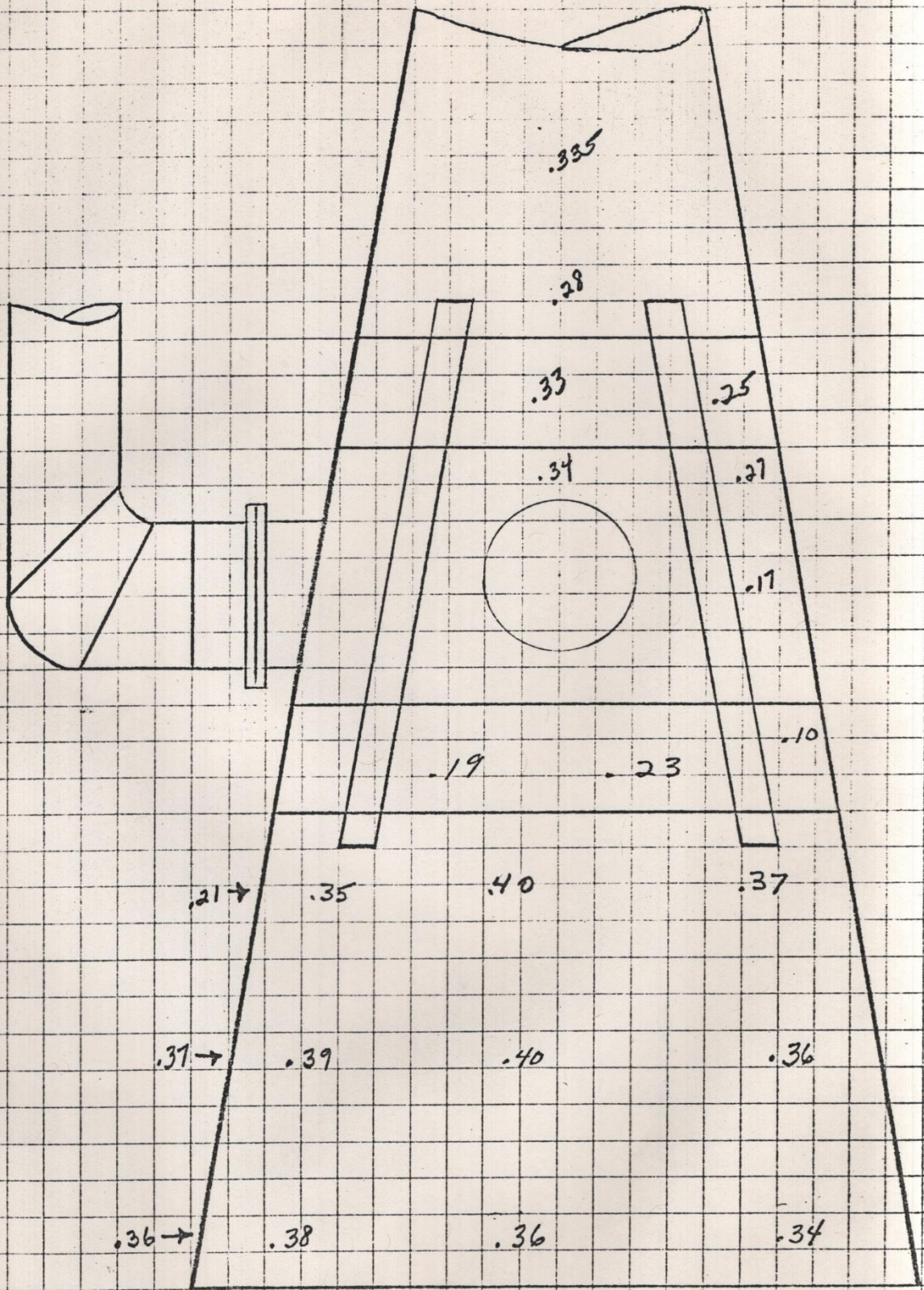
SMALL AREAS
FEATHERED TO 0" THICKNESS

100% DETERRATION
1/2 x 2"

DATE 9/27/76
DR. TJS
APP.
CHARGE SYMBOLS

INTERLAKE, INC.
LOCATION
SKETCH NO. E C 3

DESCRIPTION GAS BLEEDER STACK
SOUTHEAST SIDE VIEW

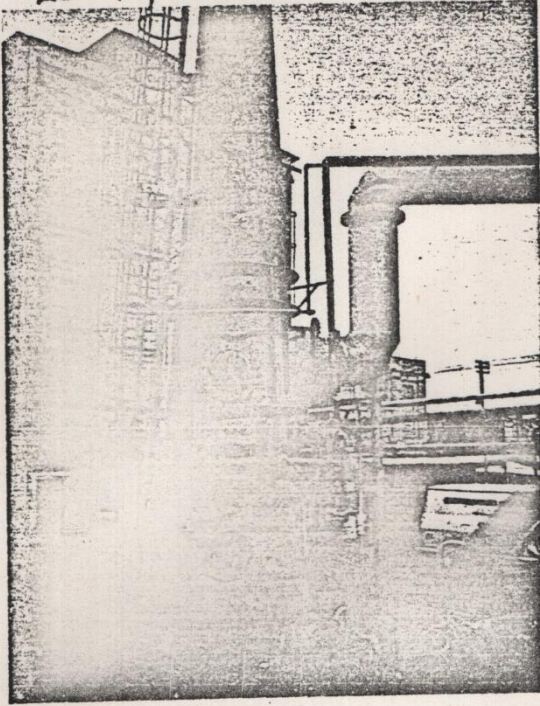


DESCRIPTION **GAS BLEEDER STACK**
Southwest Side view

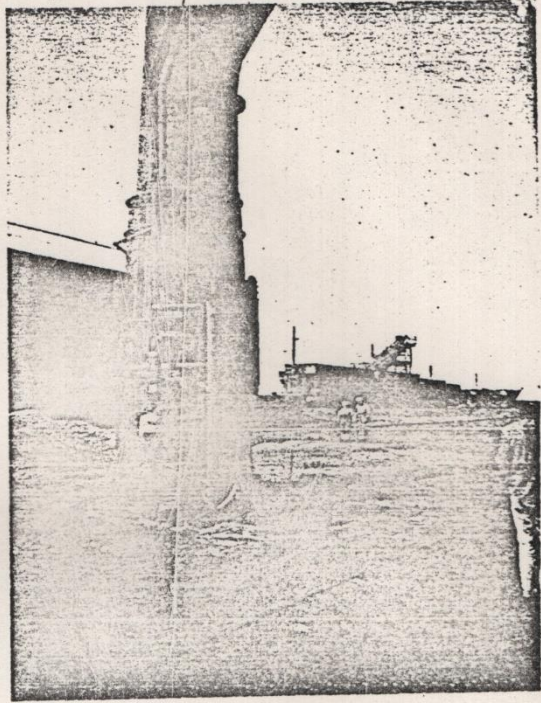
DATE **9/29/76**
 DR. **T.J.S**
 APP.
 CHARGE SYMBOLS

INTERLAKE, INC.
 LOCATION
 SKETCH NO. **EC 4**

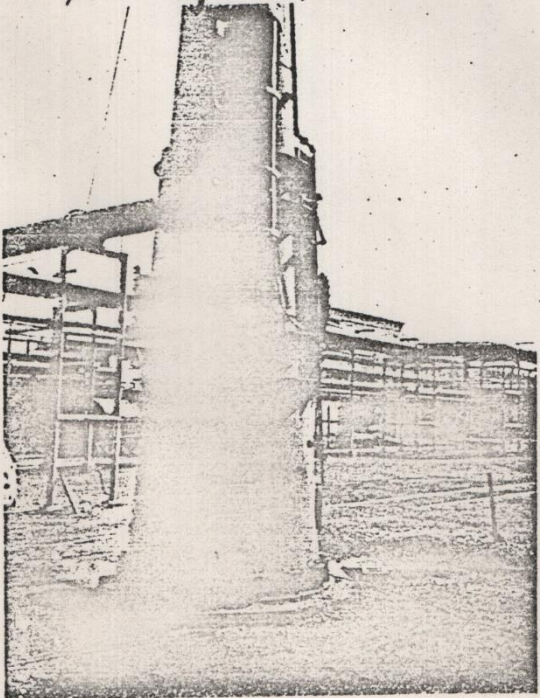
Looking N.E.



Looking N.W.



Looking S.E.



Looking S.W.

