

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-373/82-44(DETP); 50-374/82-12(DETP)

Docket No. 50-373; 50-374

License No. NPF-11; CPPR-100

Licensee: Commonwealth Edison Company
Post Office Box 767
Chicago, Illinois 60690

Facility Name: La Salle County Station, Units 1 & 2

Meetings At: Offices of Sargent & Lundy Engineers, Chicago, Illinois

Meetings Conducted: August 30 and September 13, 1982

Meeting Attendees: *I. N. Jackiw*

9/20/82

I. N. Jackiw
for R. Lipinski

9/20/82

Approved By: *I. N. Jackiw*
I. N. Jackiw, Chief
Test Program Section

9/20/82

Meetings on August 30 and September 13, 1982 (Report No. 50-373/82-44(DETP); 50-374/82-12(DETP))

Subjects Discussed: Meetings were held with corporate officers and staff of the Commonwealth Edison Company and representatives of Sargent & Lundy Engineers at the Sargent & Lundy offices in Chicago, Illinois. The purpose of the meetings was to discuss the effects of the voids, found in the wall of La Salle County Station, Elevation 710'6", on Column Line 16, east of Column Line C, on structural integrity of the wall.

DETAILS

1. Meeting Attendees

Commonwealth Edison Company

*R. T. Rose, Lead Structural Engineer
M. J. Morris, Senior Engineer

Sargent & Lundy

*T. Longlais, Structural Engineering Division Head
**E. R. Weaver, Senior Structural Project Engineer
V. Reklaitis, Structural Project Engineer
S. M. Kazmi, Supervising Design Engineer
N. K. Mehta, Engineering Assistant to Division Head

U.S. Nuclear Regulatory Commission

I. Jackiw, Chief, Test Programs Section
R. Lipinski, Senior Structural Engineer (NRR)

*August 30, 1982 meeting only.
**September 13, 1982 meeting only.

2. Meeting Details

Meetings were held in the Sargent & Lundy Offices in Chicago, Illinois, on August 30 and September 13, 1982, with aforementioned attendees to discuss the effects of the voids, found in the masonry block wall at La Salle County Station, on structural integrity of the wall.

During the August 30 meeting, Messrs. Reklaitis and Longlais delivered a presentation describing the method of surveying the voids and assessment of their effects on the wall strength. The presentation is included as an attachment to this report.

After a discussion it was agreed that the voids should be considered in the analysis of the wall and consequently, the previous responses to the NRC request for additional information be updated as appropriate. In order to evaluate the strength of the walls more realistically the applicant agreed to assess the walls by considering the presence of voids and submit the following additional information to NRC for review:

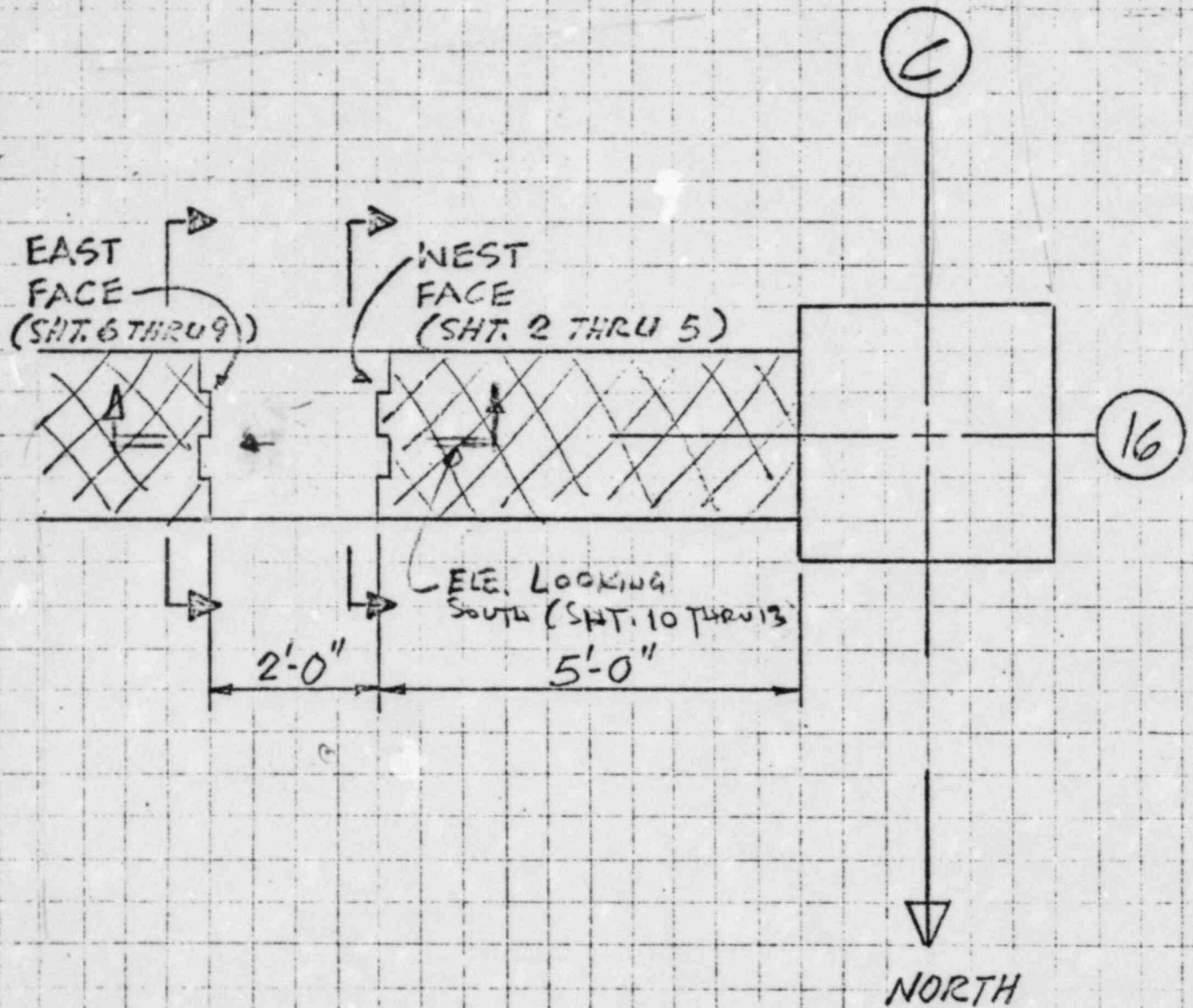
- a. Method of evaluating the amount of the voids as a percentage of mortar which should be present between the blocks.
- b. Analysis of the walls based on the moment of inertia considering the presence of the voids.

- c. Analysis of the walls, where applicable, based on cracked sections of the walls.
- d. An example of analysis of walls spanning vertically, allowing for the voids.
- e. The effect of voids for walls spanning horizontally, on allowable stresses parallel to the joints.

The meeting on September 13 was held as a follow-up to the meeting of August 30, 1982. During this meeting, Mr. Mehta discussed the results obtained so far towards reassessment of the walls in the scope of the meeting of August 30, 1982. As a result of the discussion which followed the licensee was requested to provide the following additional information for review by the staff:

- a. Evaluate, for the wall which has been exposed, the amount of voids, as a percentage of mortar completely filling the joints which would result in 10 percent of overstress in the allowable stresses.
- b. Evaluate the impact of the condition stated in a, above, on the following:
 - (1) The criteria to which the licensee has committed himself in the project.
 - (2) The NRC criteria for the masonry walls contained in Appendix A of the Standard Review Plan, Section 3.8.4, Revision 1, dated July 1981.

The above information is to be submitted to NRC/NRR with a copy to NRC/Region III during or about the week of September 27, 1982.



PLAN @ EL. 710'-6"
REF. A-228

REACTOR BLDG. - UNIT II

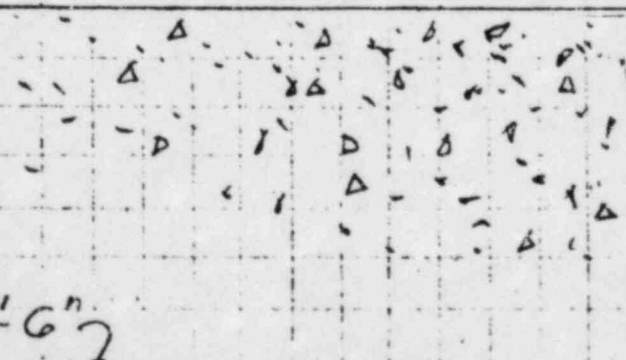
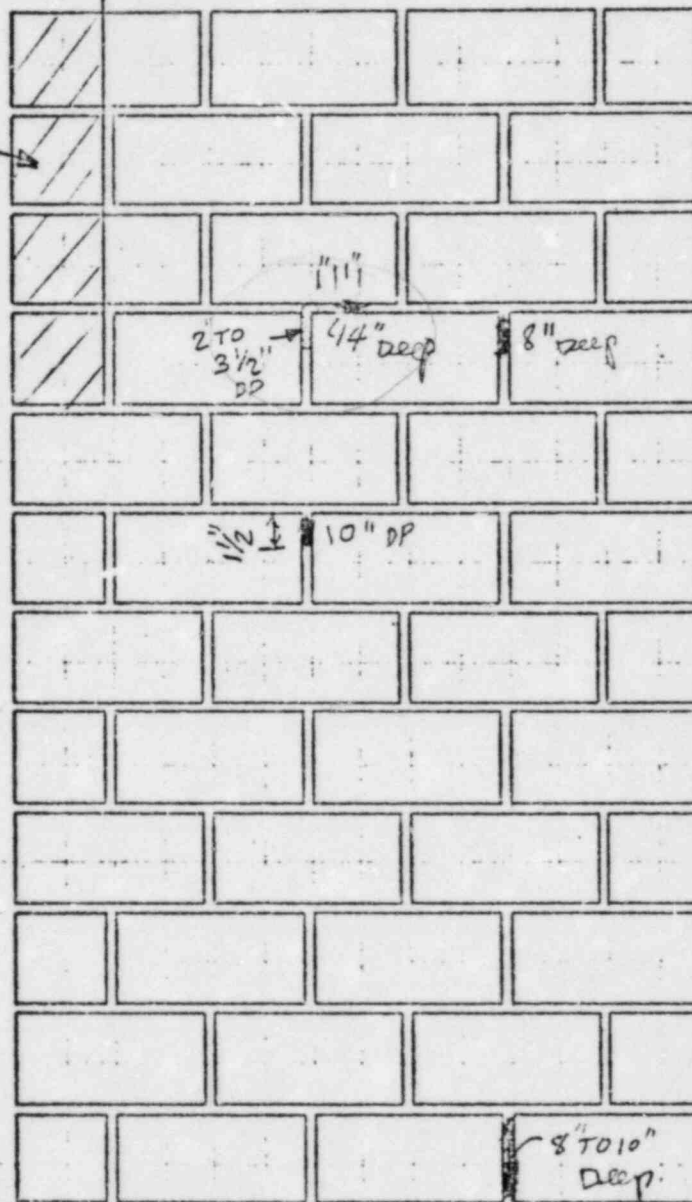
WEST FACE LOOKING WEST.

2 TO 3 1/2" DEEP VOIDS SHEET 2
COULD BE CARRIED OUT
DURING DEMOLITION.

Handwritten notes in the upper right corner, including "11" and "12" with arrows pointing to the corresponding courses in the diagram.

FACE NOT REMOVED

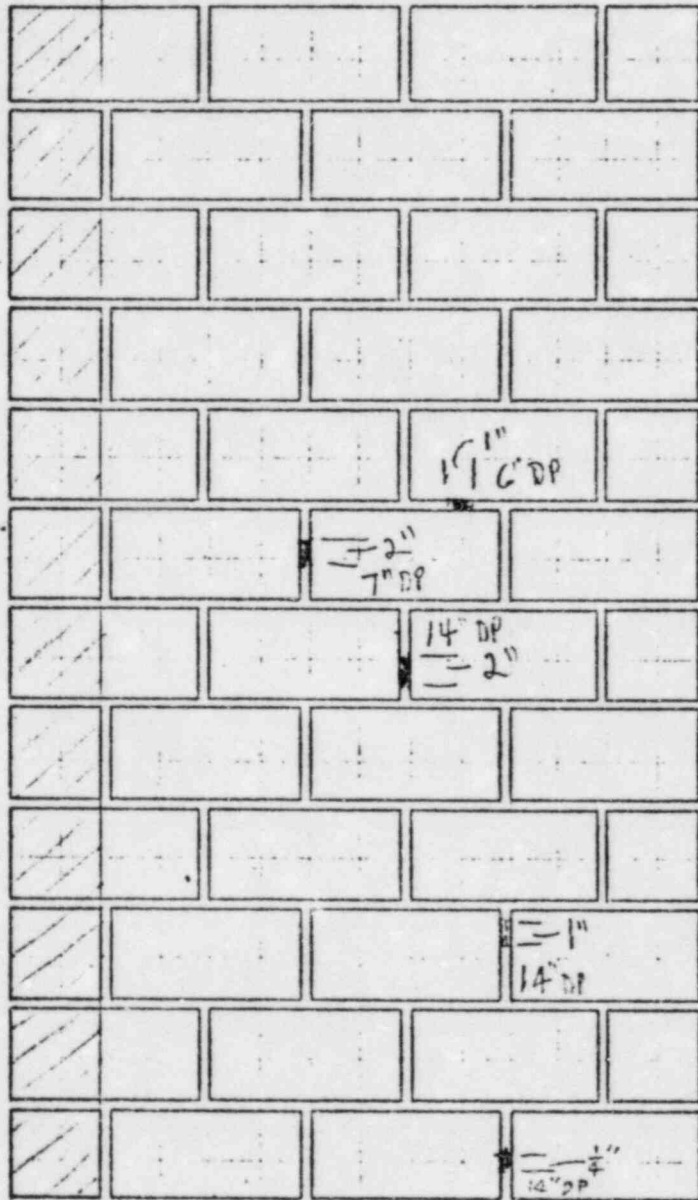
WALL OPENED THROUGH THICKNESS



FL. EL. 710'-6"

7 COURSES OF BLK WALL

PORTION NOT
REMOVED.



24

23

22

21

20

19

18

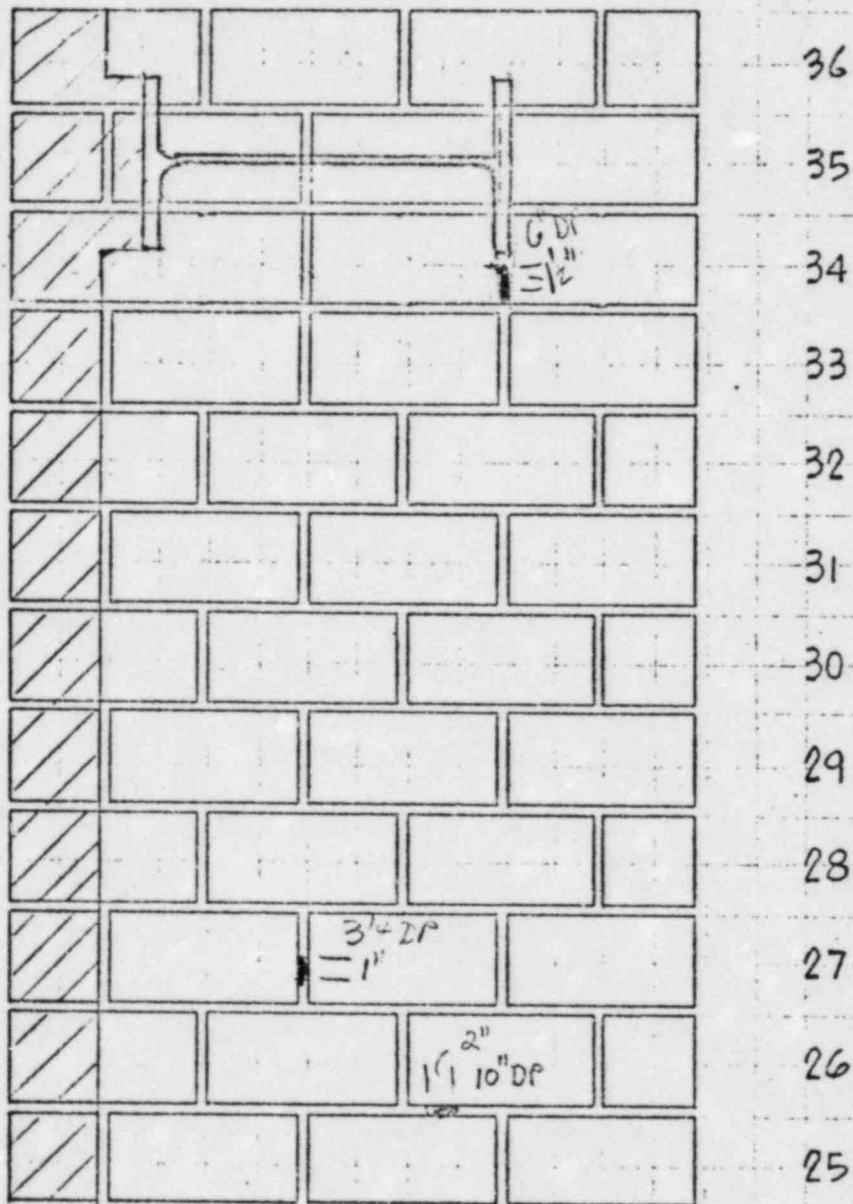
17

16

15

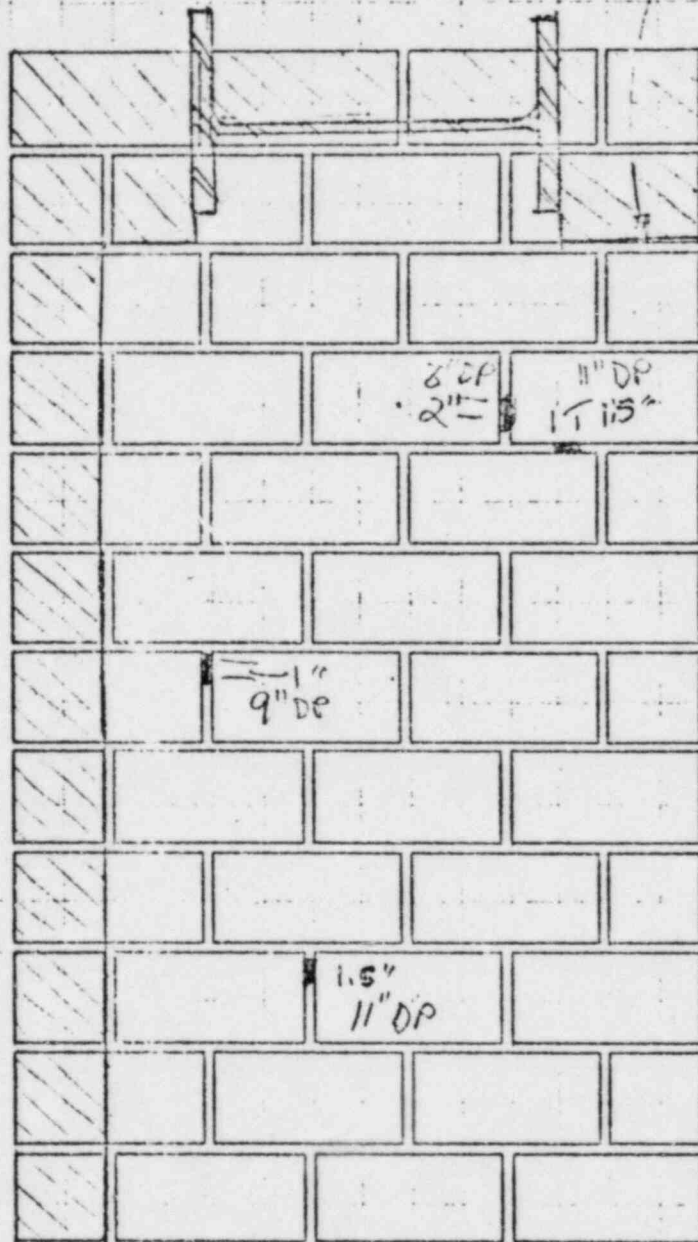
14

13



PORTION NOT
REMOVED

LINE OF WALL OPENING



48

47

46

45

44

43

42

41

40

39

38

37

PORTION NOT
REMOVED.

8' 0" DP
2"

1" DP
9" DP

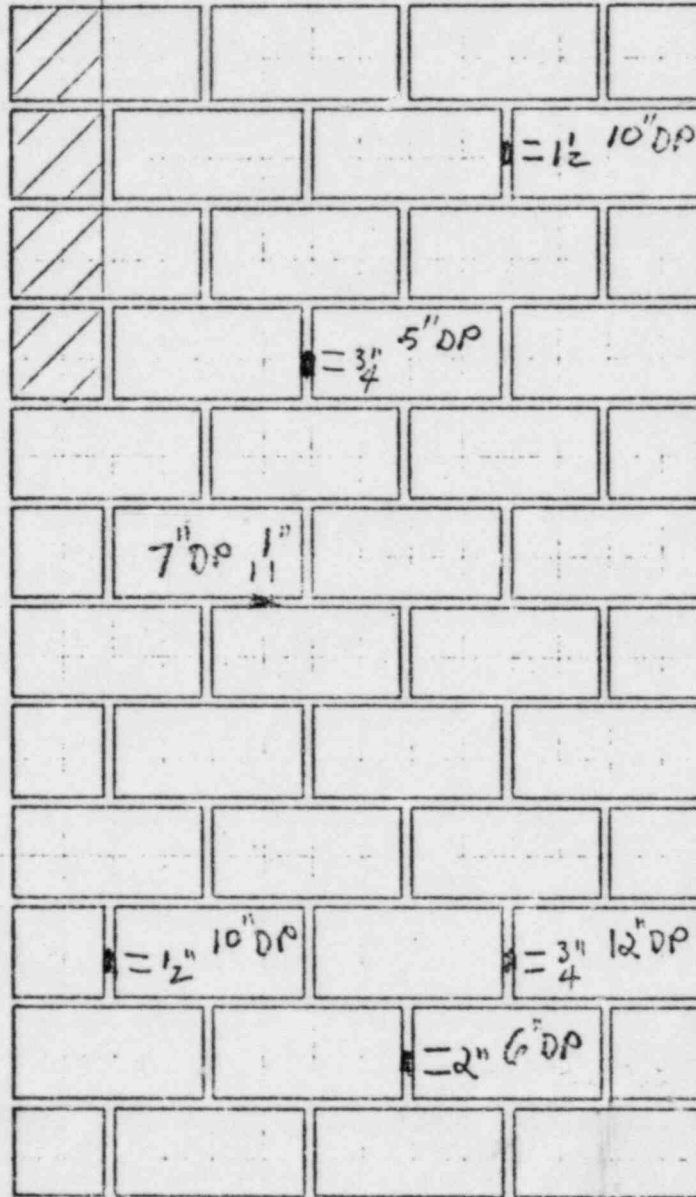
1.5" DP
11" DP

PORTION NOT
REMOVED.

N. FACE

WALL OPENED THROUGH THICKNESS

7 COURSES
OF BLK. WALL



12

11

10

9

8

7

6

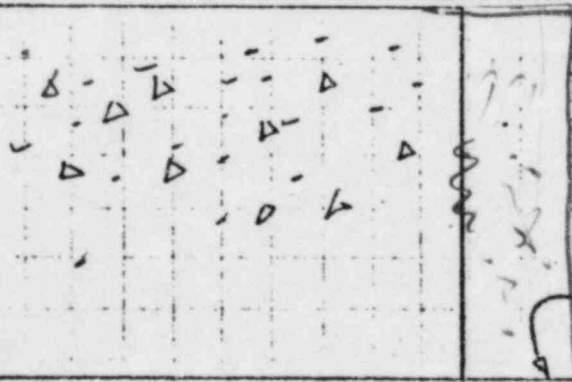
5

4

3

2

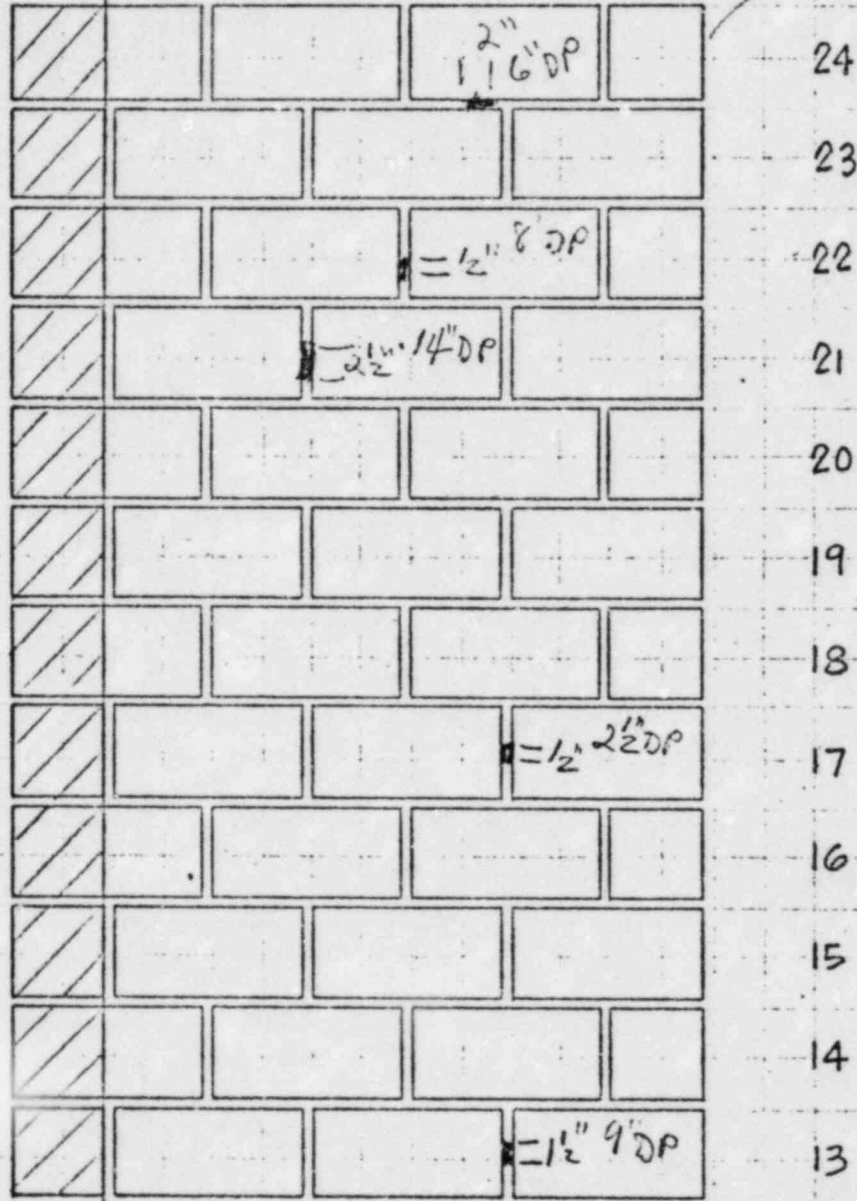
1



FL. EL. 710'-6"

PORTION NOT
REMOVED

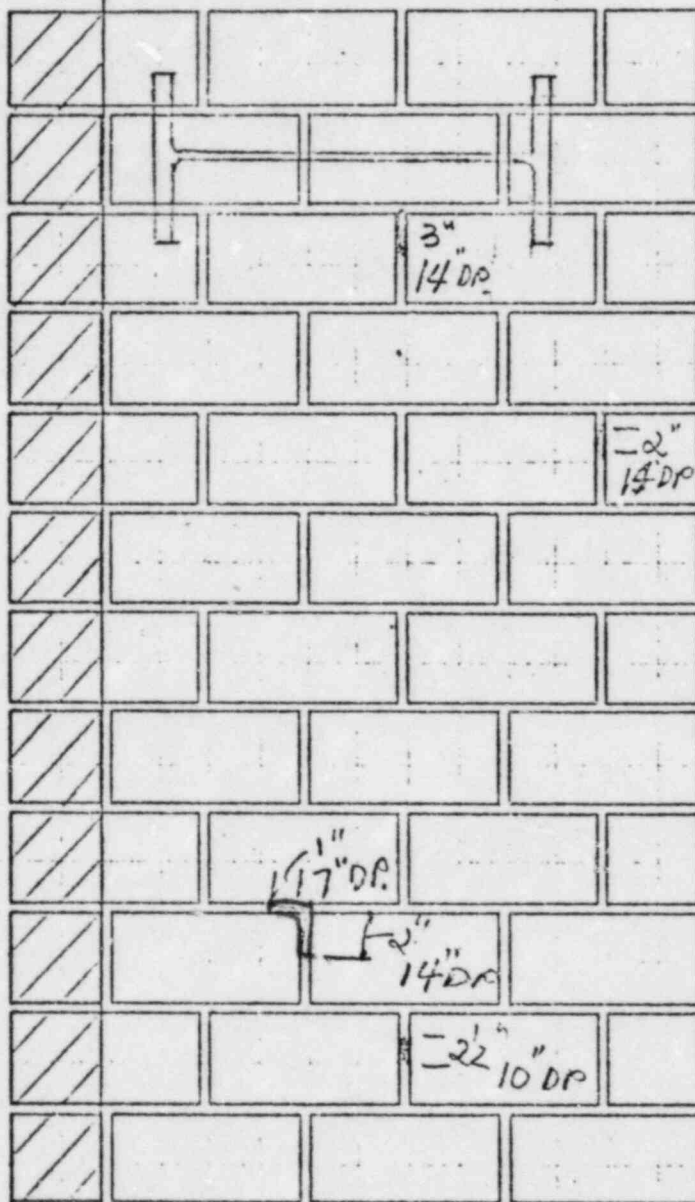
N. FACE



①

PORTION NOT
REMOVED.

N. FACE



36

35

34

33

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29

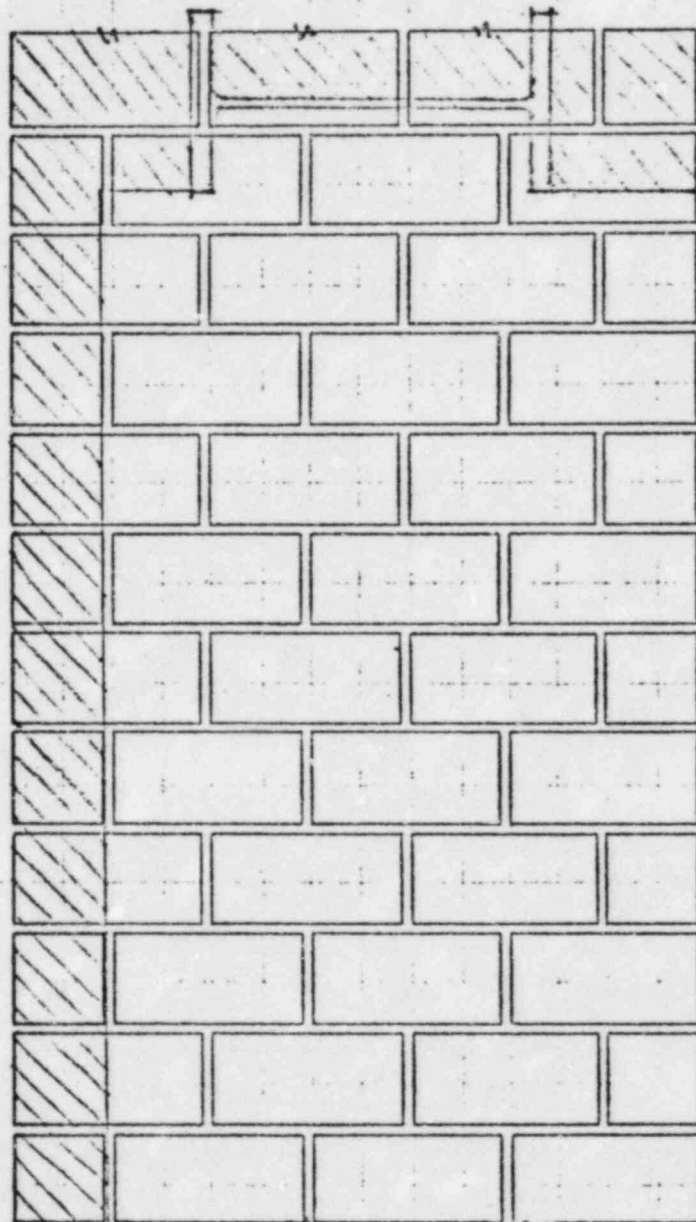
28

27

26

25

outside



48

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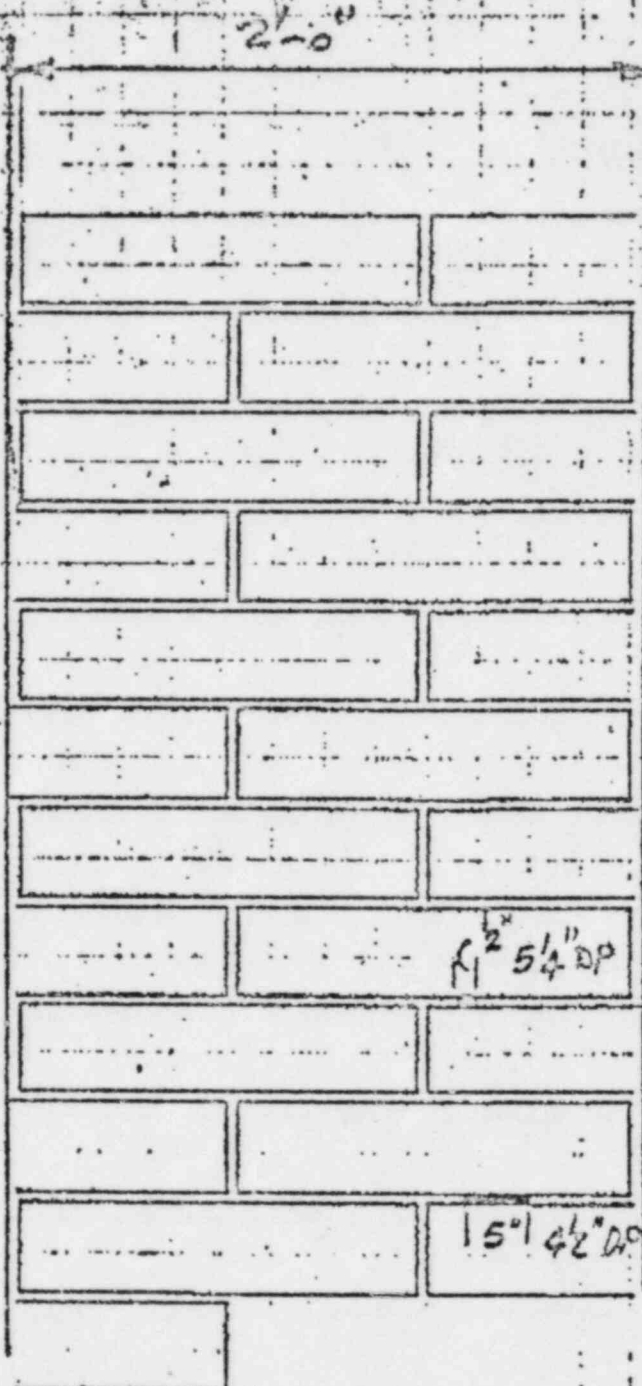
37

PORTION NOT
REMOVED

24 8" DP

N. FACE

2'-0"



- 19
- 18
- 17
- 16
- 15
- 14
- 13
- 12
- 11
- 10
- 9
- 8

1 2 5/4 DP

15 1 4 1/2 DP

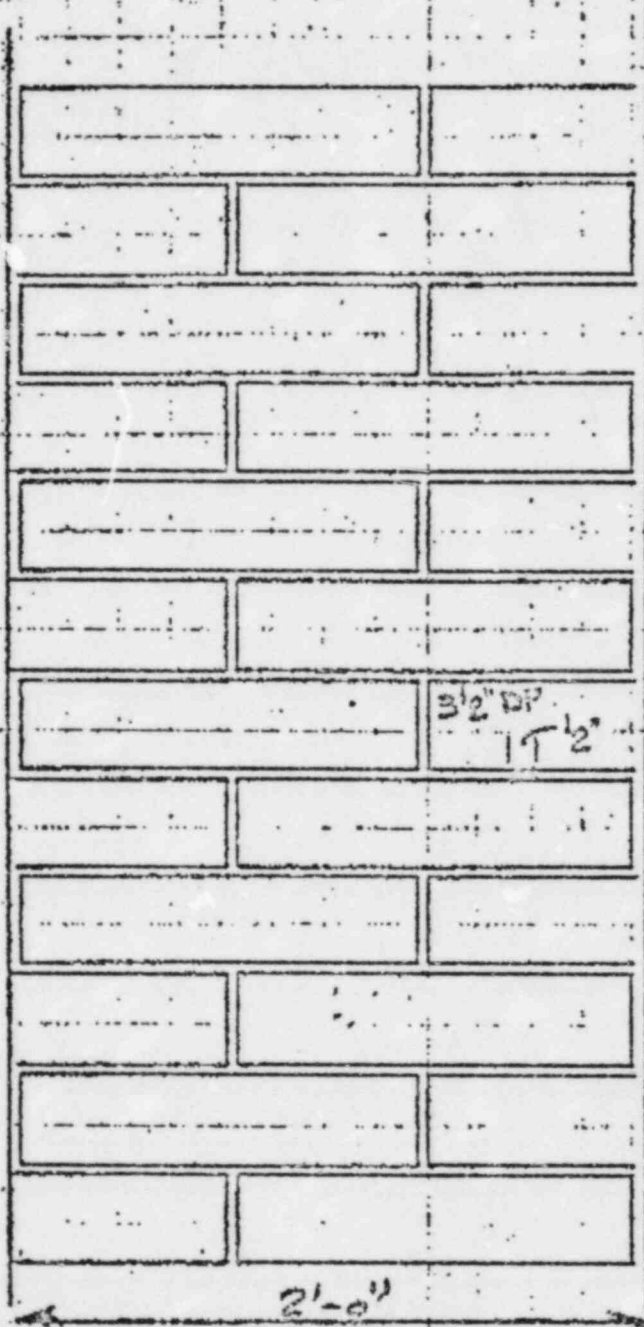
7 COURSES WALL OPNG.
OF B.L. THROUGH
WALL TO B.L.
No. 1

FL. EL. 710'-6"



ELE. LOOKING SOUTH

SHEET II



31

30

29

28

27

26

25

24

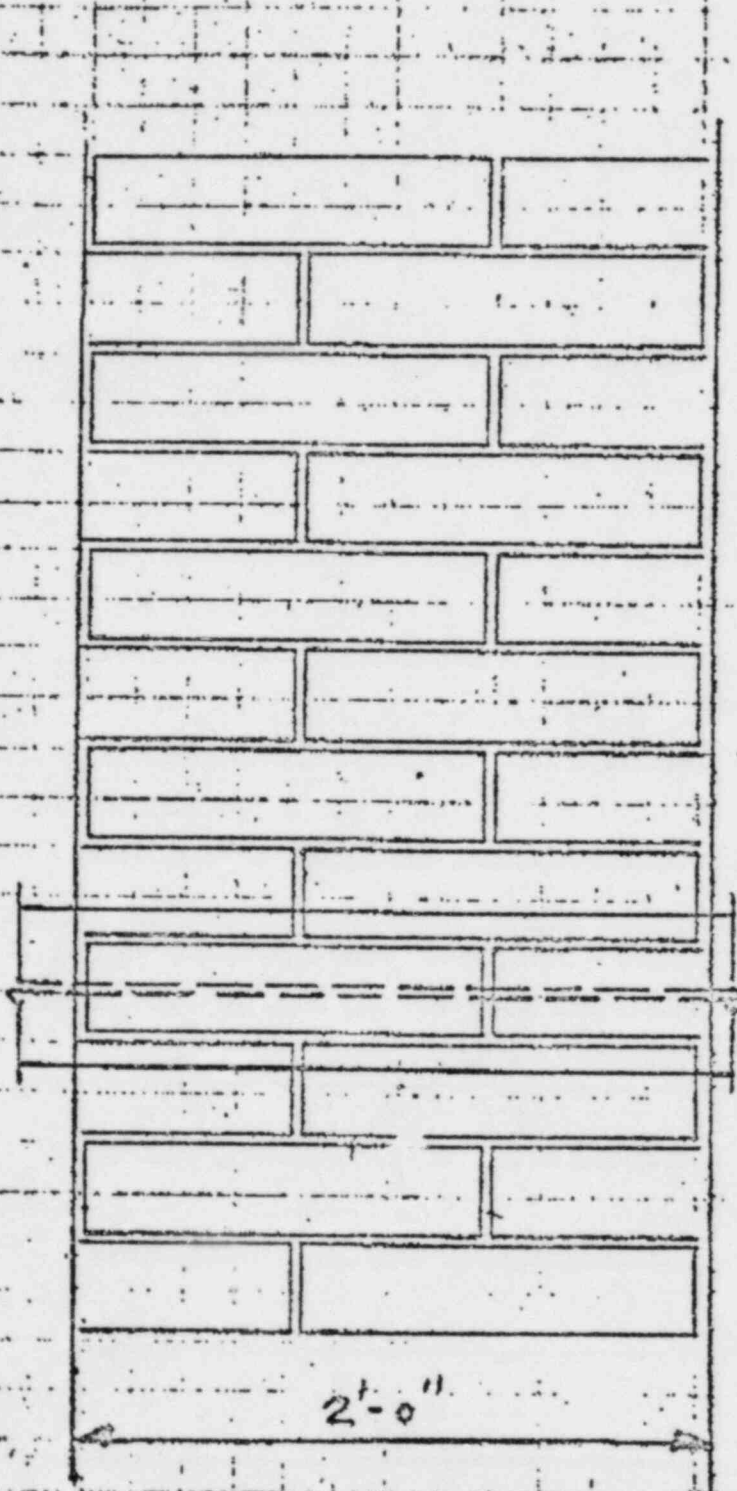
23

22

21

20

2'-0"



43

42

41

40

39

38

37

36

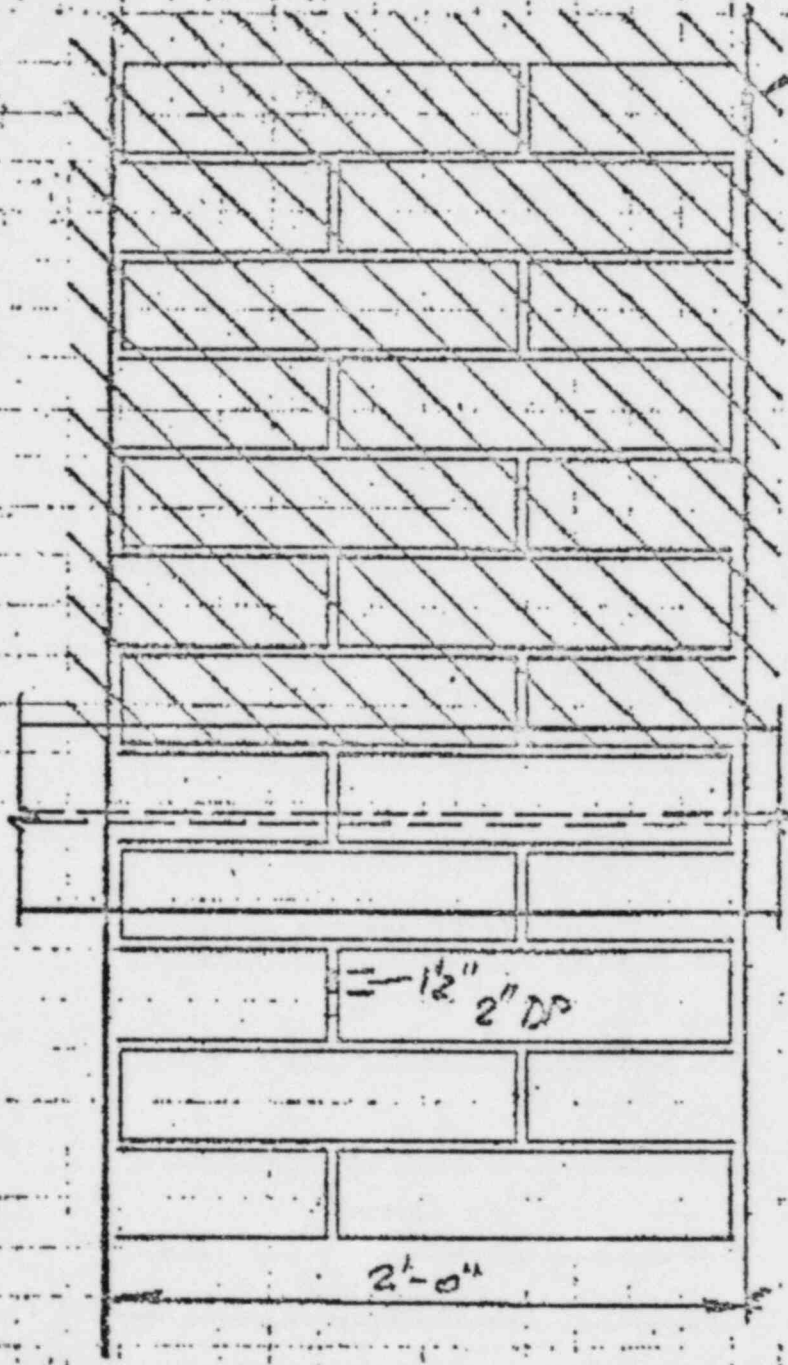
35

34

33

32

2'-0"



BLK. WALL
NOT REMOVE

48

47

46

45

44

2'-0"