

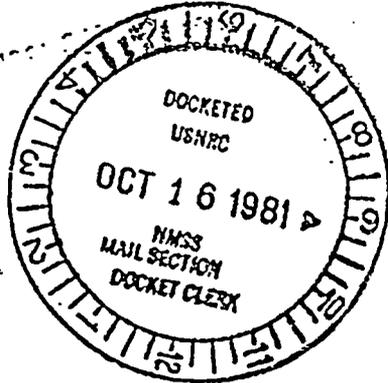
C-E Power Systems  
Combustion Engineering, Inc.  
Route 21-A  
Hematite, Missouri 63047

Tel. 314/937-4691  
314/296-5640

70-36

Region

NIS/81/854



release

October 8, 1981

R

Mr. R. G. Page  
Chief, Uranium Fuel Licensing Branch  
Division of Fuel Cycle and Material Safety  
U.S. Nuclear Regulatory Commission  
Washington, D.C.

License SNM-33  
Docket 70-36

Dear Mr. Page:

Enclosed are eight copies of Drawing D-5008-2023, which were omitted from our application dated June 19, 1981 for dry powder storage on conveyors and mezzanine storage of agglomerated press feed.

In addition, page 8-7 has been revised to show the correct drawing number.

Please advise if additional information is required.

Very truly yours,

COMBUSTION ENGINEERING, INC.

H. E. Eskridge  
Supervisor, Nuclear Licensing,  
Safety and Accountability

/wg  
Enclosure

7-13

FEE EXEMPT

add'l 2/6/14/81  
minor fee case -

21702

### 8.1.5 Blending

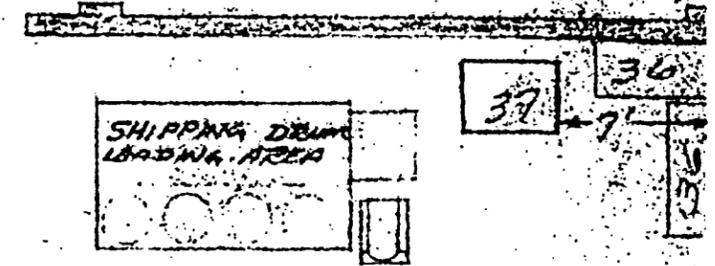
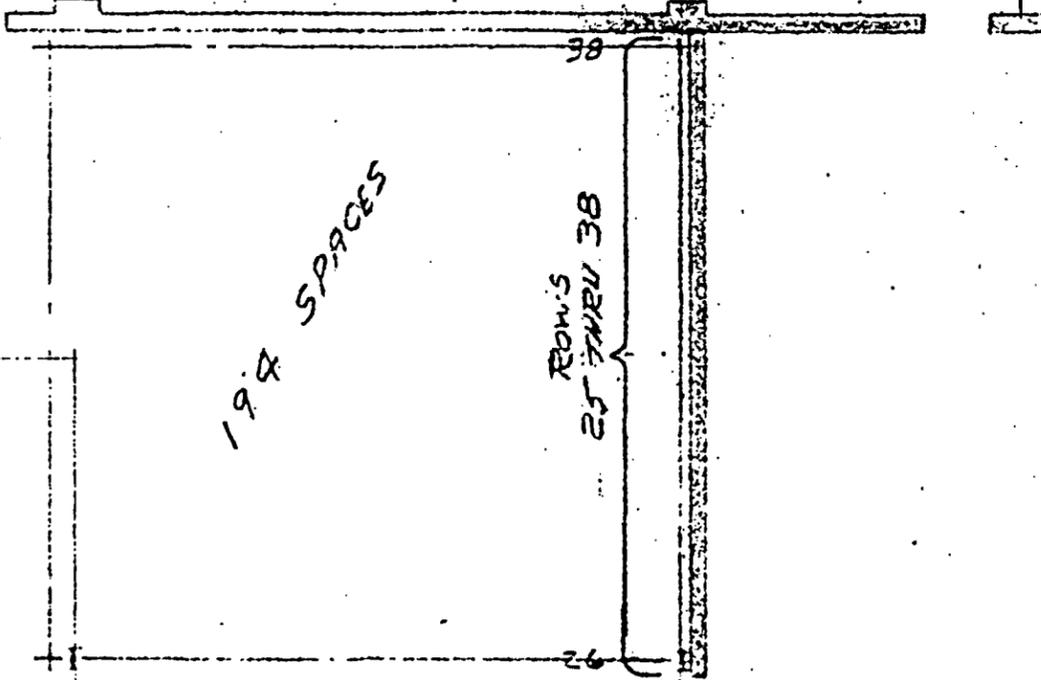
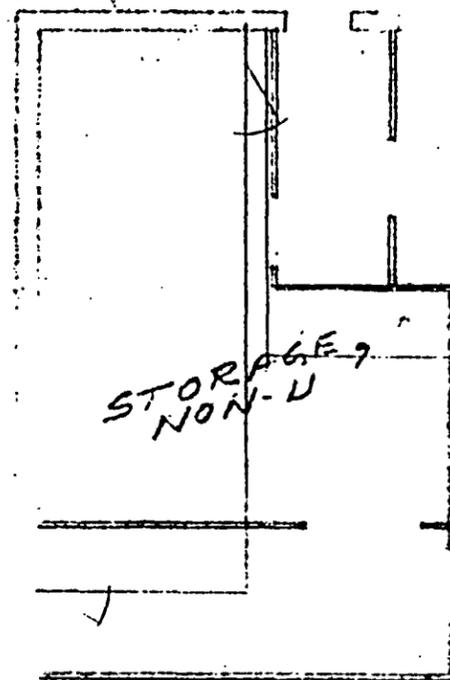
Blenders are 14 inches in diameter. The blending operation involves no homogeneous material except for the moisture contained in agglomerated press feed recycled to the mill. The atmosphere is continuously monitored for humidity and an increase in moisture will cause an alarm and subsequent cessation of the blending operation. The Nuclear Safety Evaluation is provided in Section 9.0

Blenders are arranged on six foot centers forming an inline array and are located at least four feet from other SNM-bearing equipment.

### \* 8.1.6 Packaging and Storage

Dry  $UO_2$  product is transferred into stainless steel cans (9.75"  $\phi$  X 11" long) in the powder packaging hoods. A maximum of 30 Kg  $UO_2$  per can is allowed. A 4 mil poly bag may be used as an inner liner. If used, it is sealed at the top with tape. The can lid is a friction-fit type which is sealed on the outside with tape. This precludes any in-leakage of moisture from atmospheric humidity (the powder is not hygroscopic anyway) or flooding. Thus, the  $UO_2$  product is kept dry (typically <.05% moisture) and moderation control is assured under all conditions. Section 9.3 describes all moderation controls in detail.

The sealed cans of dry  $UO_2$  product are then transferred to one of 5 roller conveyors on the north side of Building #255 as shown in Items 58, 59 and 60 of Drawing D-5008-2023, dated 2/5/81. The entire building is above the 100 year flood level as determined by the U. S. Army Corps of Engineers in their Special Study for Joachim Creek, dated March 1980. Even if flooding were possible, the 30 Kg weight of the cans containing high density  $UO_2$  would prevent them from floating and being moved. Building #255 is not sprinklered and firefighting would be by dry chemical means. Thus, criticality safety is assured through moderation control ( $\leq$  4.1% enriched  $UO_2$  cannot be made critical without moderation).

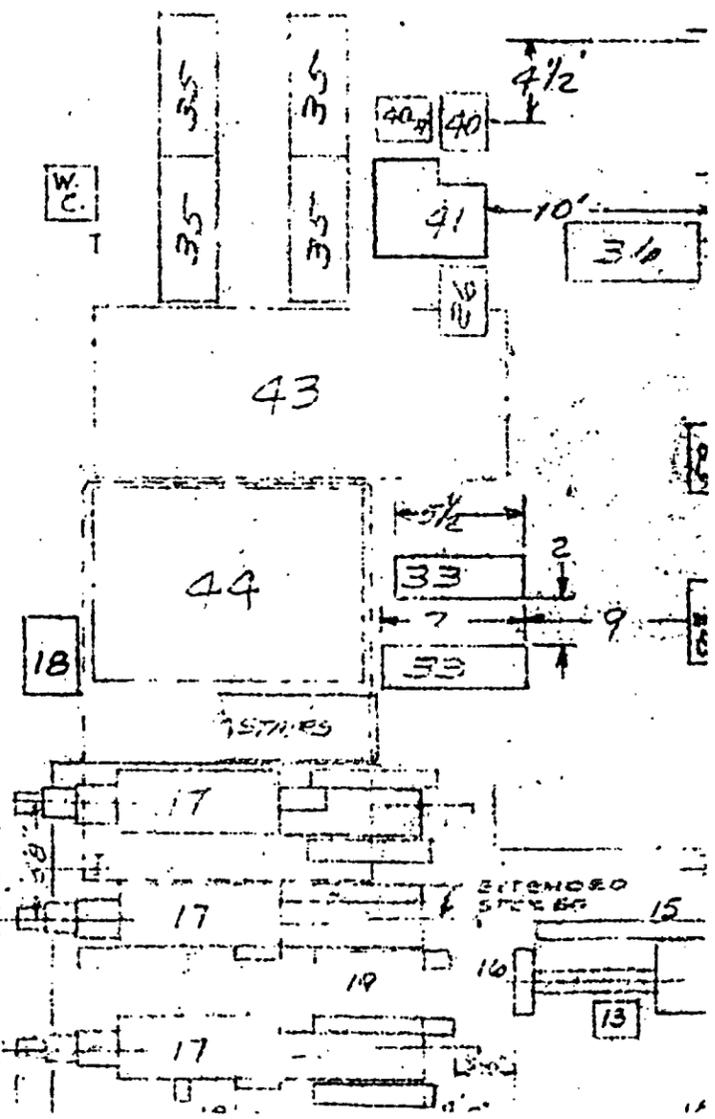
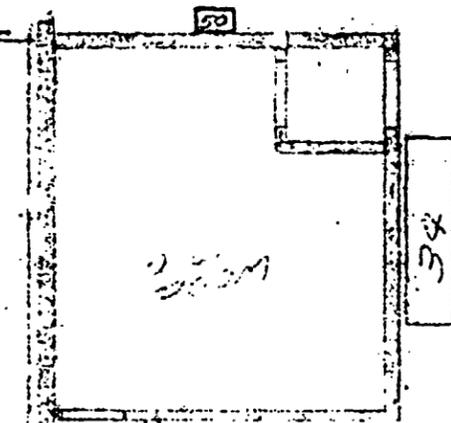


260 SPACES

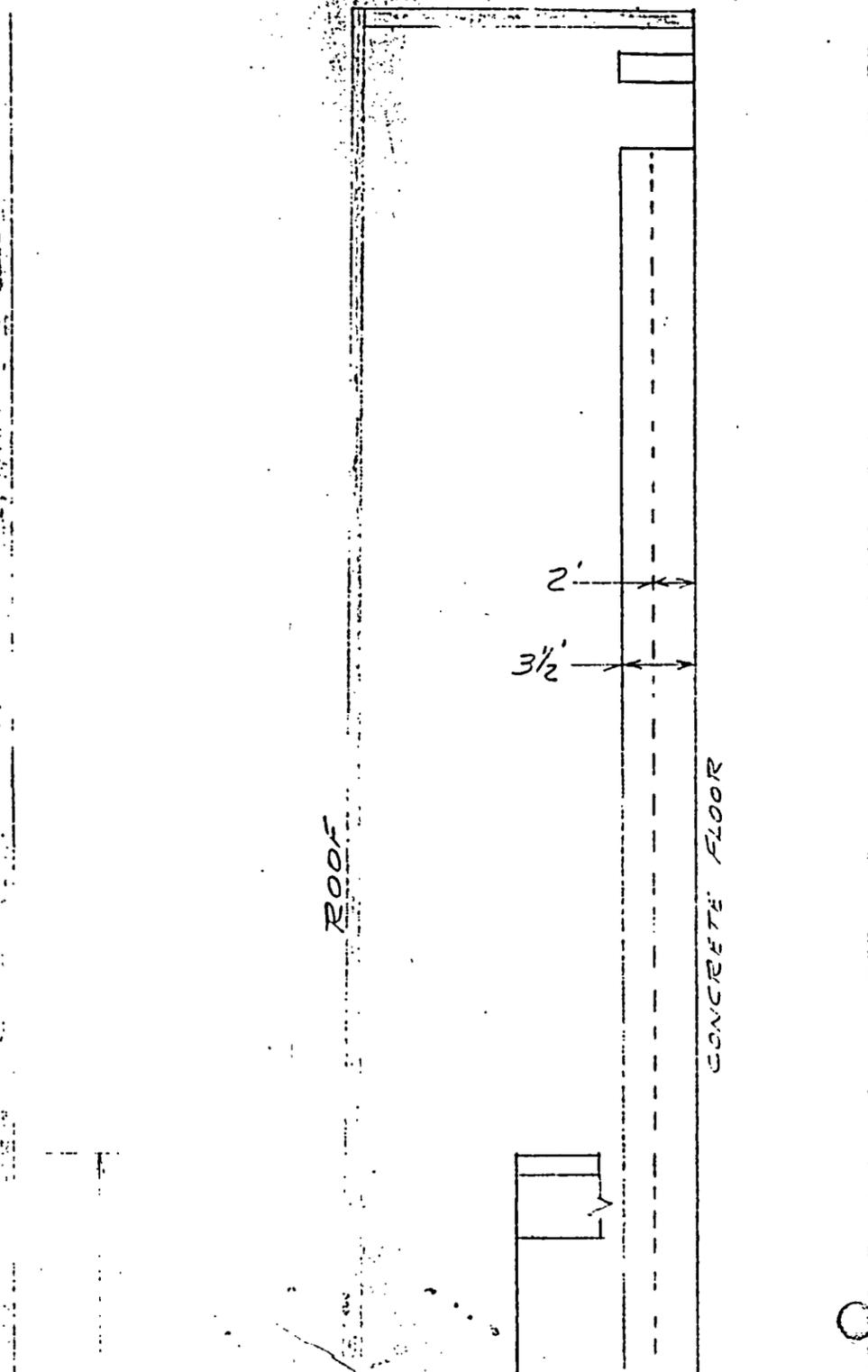
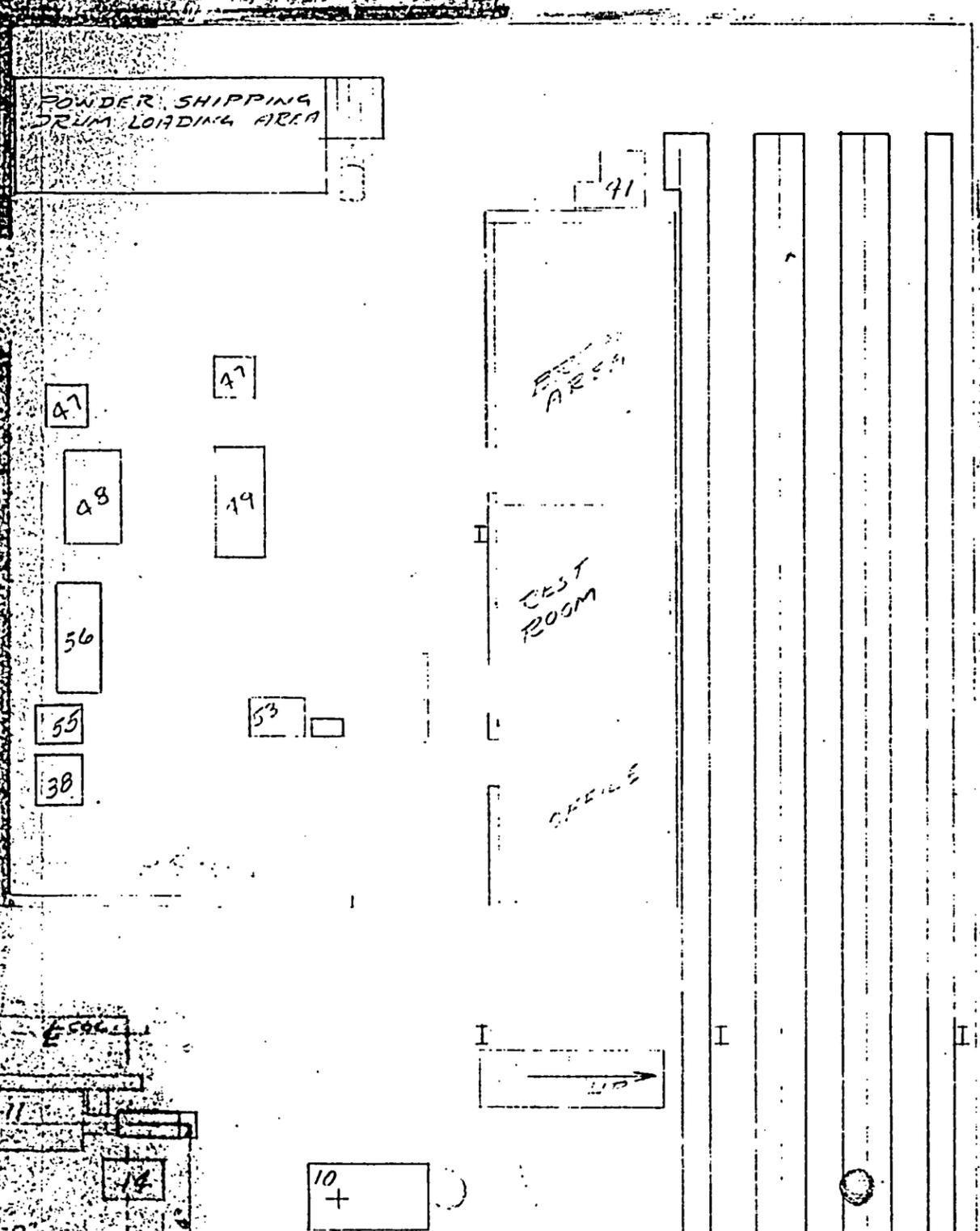
Bldg 253 B

334 SPACES

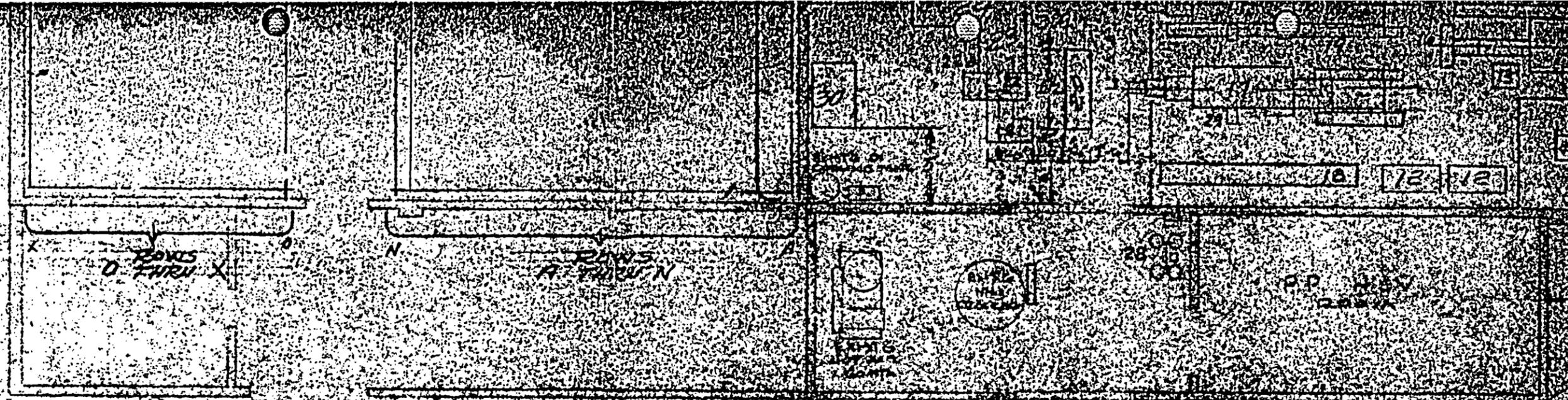
ROWS 1 THRU 24



MATERIAL FOR CONCRETE ASSEMBLY



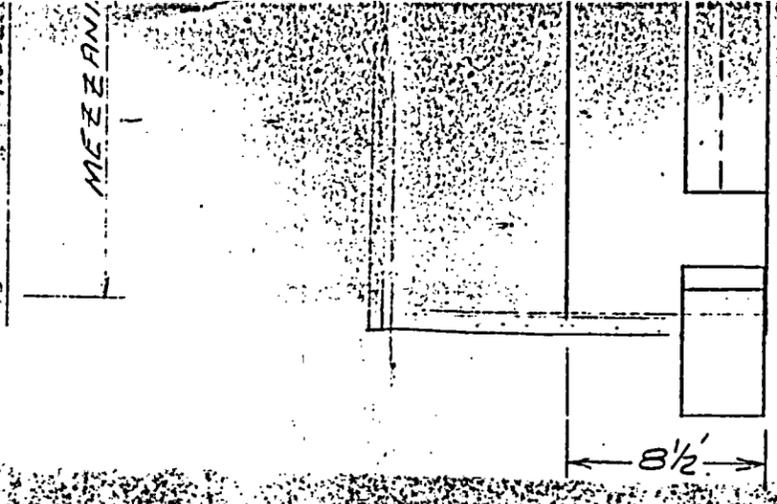
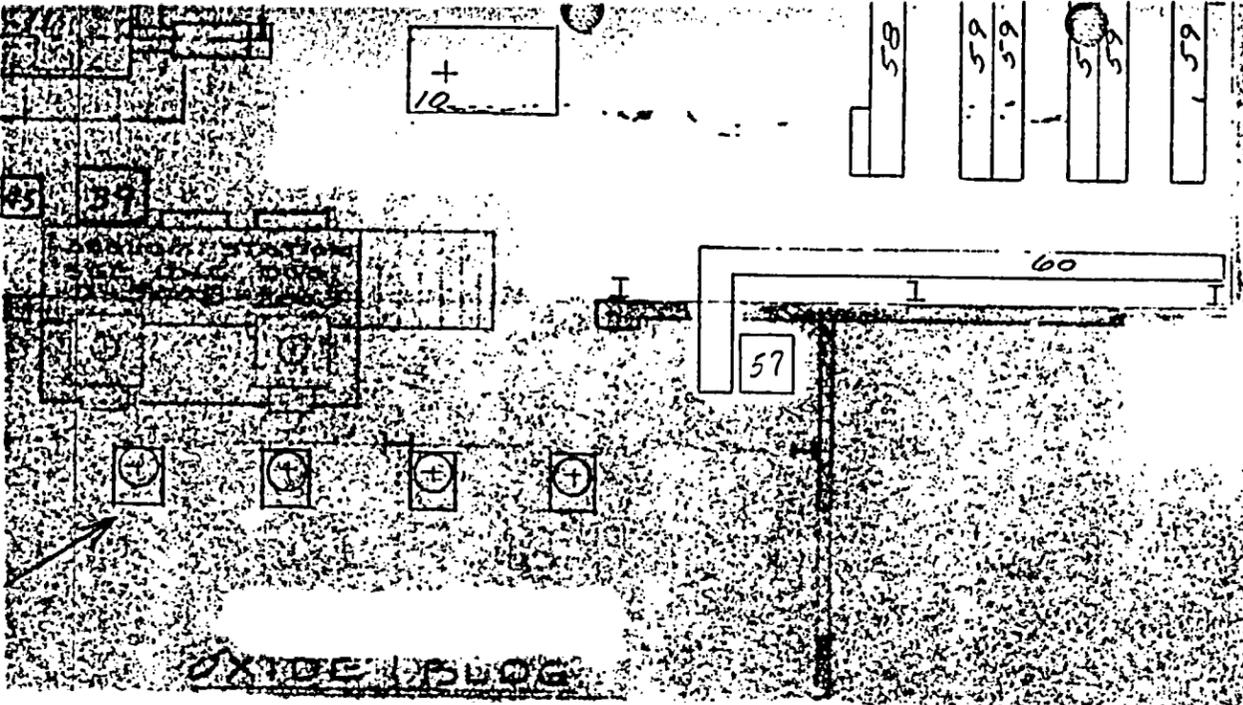
1. Tray Cart
2. Dress Control Panel
3. Dress Control Panel
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7. Dress Control Panel
8. Dress Control Panel
9. Dress Control Panel
10. Dress Control Panel
11. Dressing Furnace
12. Dressing Furnace Control Panel
13. Dressing Furnace Insulator
14. Dressing Furnace Insulator
15. Field Return Conveyor
16. Field Storage Above Conveyor
17. Tray Unloading Table
18. Sintering Furnace
19. Sintering Furnace Control Panel
20. Field Return Conveyor
21. Loaded Tray Storage (Grinder Feed)
22. Field Feed & Tray Discharge Booth
23. Grinder
24. Grinder Control Panel
25. Grinder Control Panel
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POWDER  
PK'G HOODS

EQUIPMENT FLOOR PLAN 51



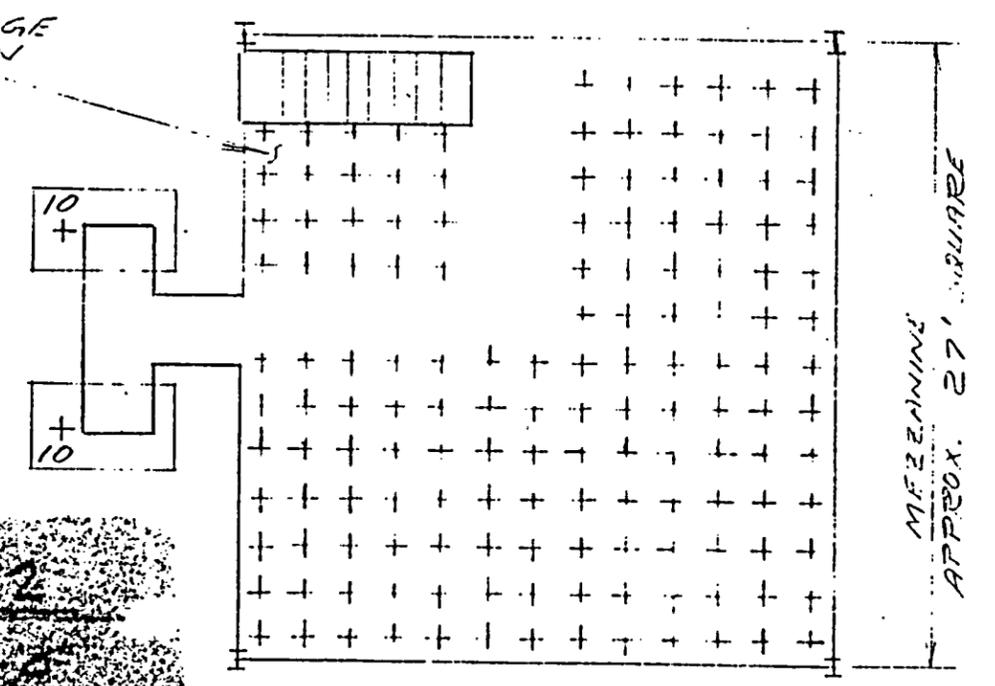


- 55. COLLECTION HOOD (MICRONIZER)
- 56. MICRONIZER HOOD
- 57. PRODUCT TO AGGLOM. HOOD
- 58. 2 TIER POWER CONVEYOR
- 59. 2 TIER CONVEYOR
- 60. ONE TIER CONVEYOR

EL. VIEW

OXIDE BUOG

THESE STORAGE SPACES ARE ON 24" CENTERS



255-1#2

PROPOSED LAYOUT OF BLDG. 255-1, 1ST FLOOR + MEZZANINE

D-5008-2023