

10.0 PROPOSED TECHNICAL SPECIFICATION CHANGE

The following replaces Sections 5.5 and 5.6 of our March 21, 1978 submittal. The changes are:

1. 3009 fuel assemblies to 2776
2. 15.6 grams of Uranium-23/per axial centimeters to 18.13

"5.5 Storage of Unirradiated and Spent Fuel

Unirradiated fuel assemblies will normally be stored in critically safe new fuel storage racks in the reactor building storage vault. Even flooded with water, the resultant k_{eff} is less than 0.95. Fresh fuel may also be stored in shipping containers. The unirradiated fuel storage vault is designed and shall be maintained with a storage capacity limited to no more than 200 fuel assemblies.

The spent fuel storage facility is designed to maintain fuel in a geometry such that k_{eff} is less than 0.95 under conditions of optimum water moderation. The spent fuel storage facility is designed and shall be maintained with a storage capacity limited to no more than 2776 fuel assemblies containing not more than 18.13 grams of Uranium-235 per axial centimeters of assembly.

Calculations for k_{eff} values have been based on methods approved by the NRC covering special arrays (10CFR70.56).

5.6 Seismic Design

The reactor building and all contained engineered safeguards are designed for the maximum credible earthquake ground motion with an acceleration of 11 percent of gravity. Dynamic analysis was used to determine the earthquake acceleration, applicable to the various elevations in the reactor building."

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PDR



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11.0 TABLES



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TABLE 1

<u>LOAD COMBINATION</u>	<u>ACCEPTANCE LIMIT</u>
D + L	Level A service limits
D + L + T ₀	
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D + L + T ₀ + E	Level B service limits
D + L + T _a + E	
D + L + T ₀ + P _f	
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D + L + T _a + E'	Level D service limits
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D + L + F _d	The functional capability of the racks should be demonstrated.
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NOTE:

The provisions of NF 3231.1 of American Society of Mechanical Engineers, Boiler and Pressure Vessel Code, Section III, Division 1, Subsection NF were amended by the requirements of Paragraphs C 2, 3 and 4 of Regulatory Guide 1.124 entitled "Design Limits and Load Combinations for Class 1 Linear-Type Component Supports."



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12.0 FIGURES



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PHASE II - FINAL INSTALLATION
PLAN OF SPENT FUEL POOL WITH ALL
RACKS INSTALLED

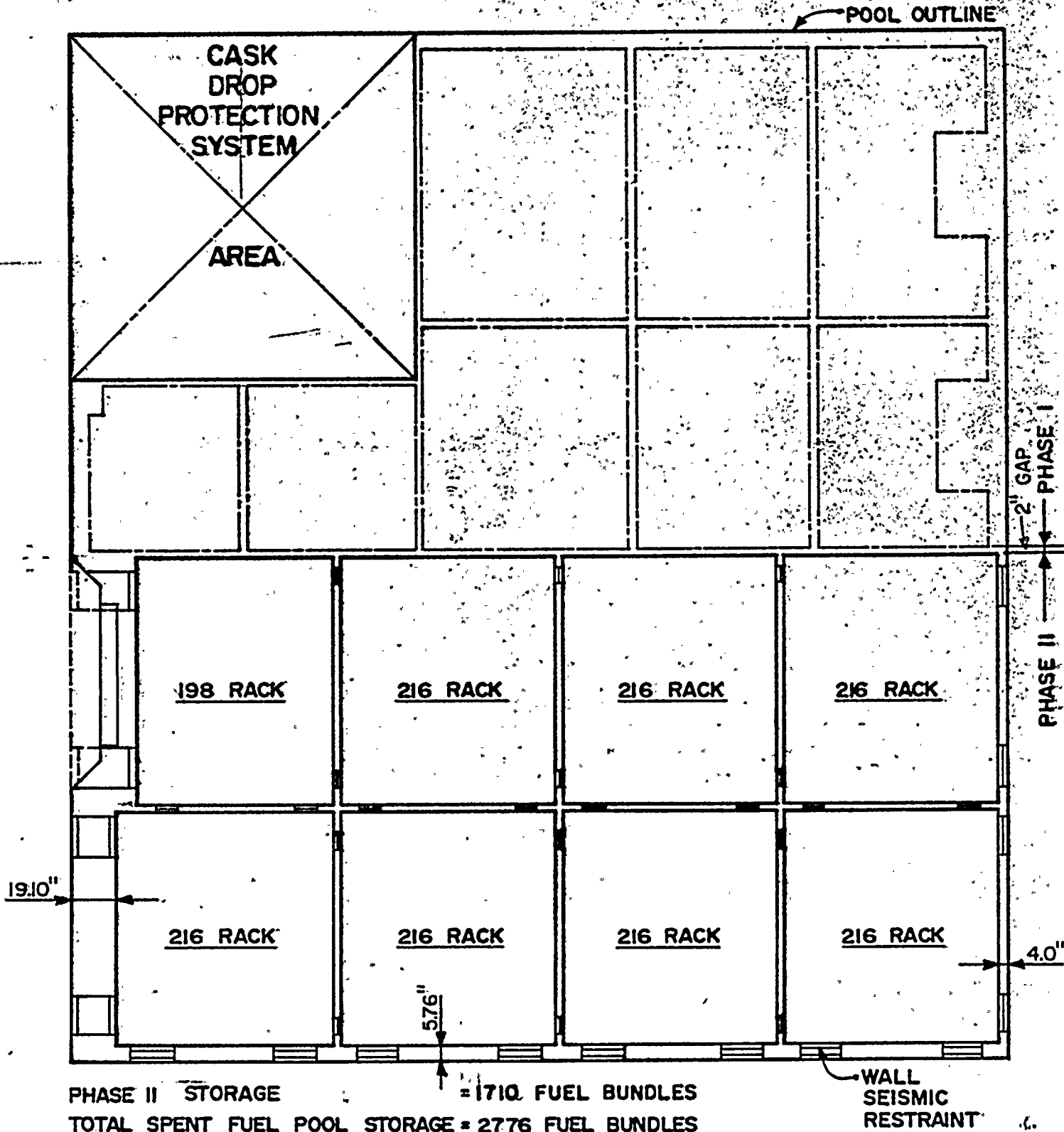


Figure 1



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PHASE II - SEISMIC RESTRAINTS

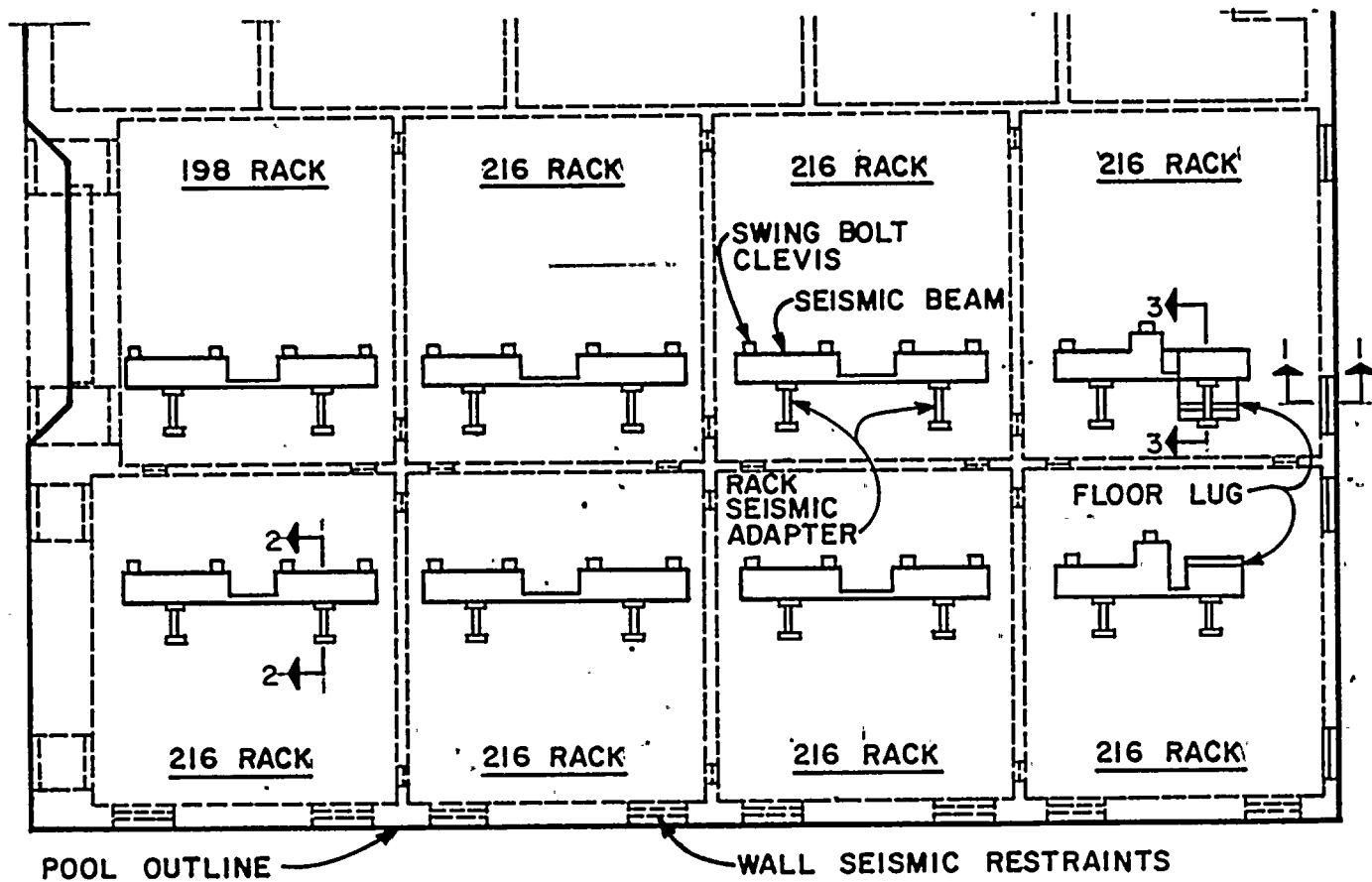
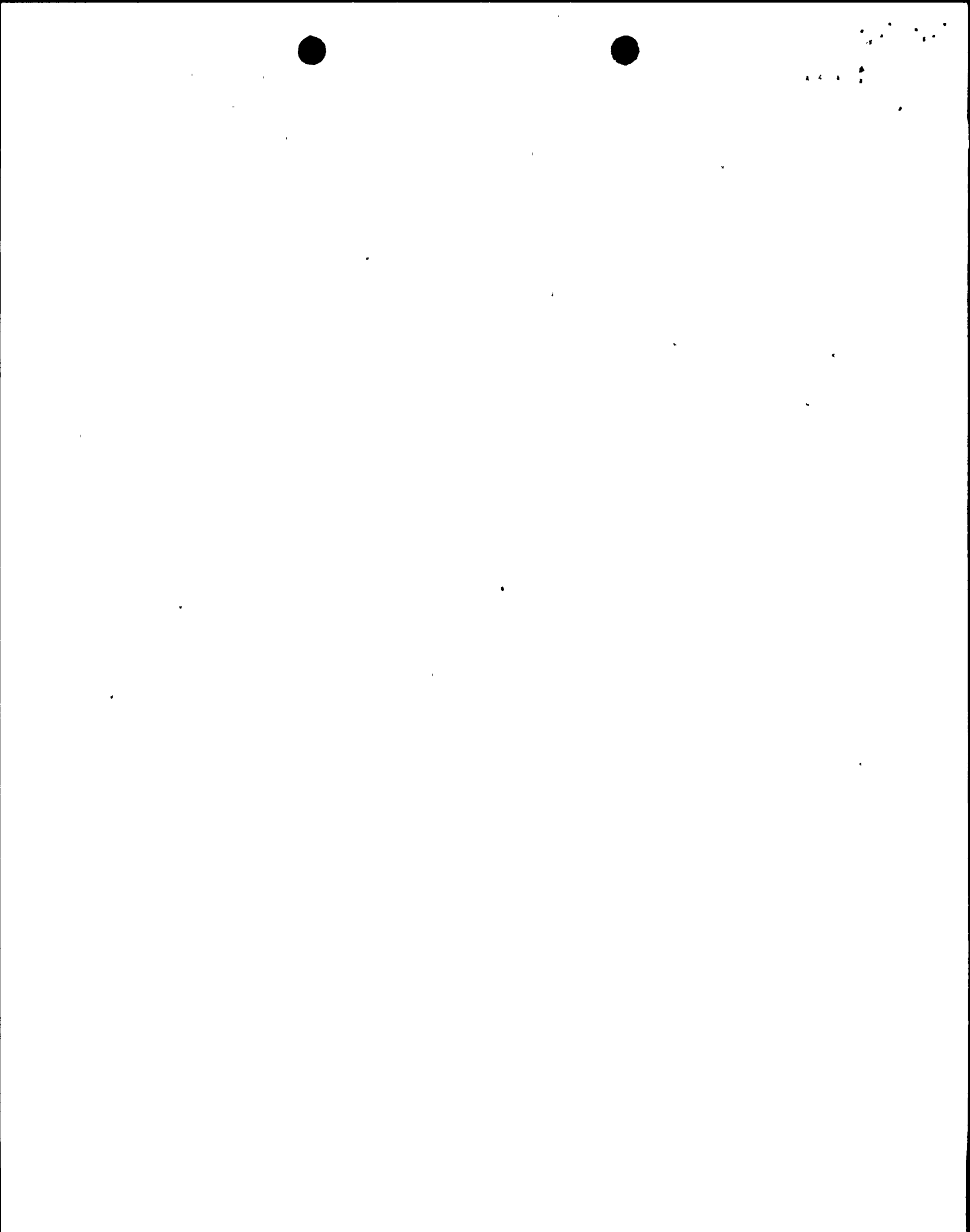
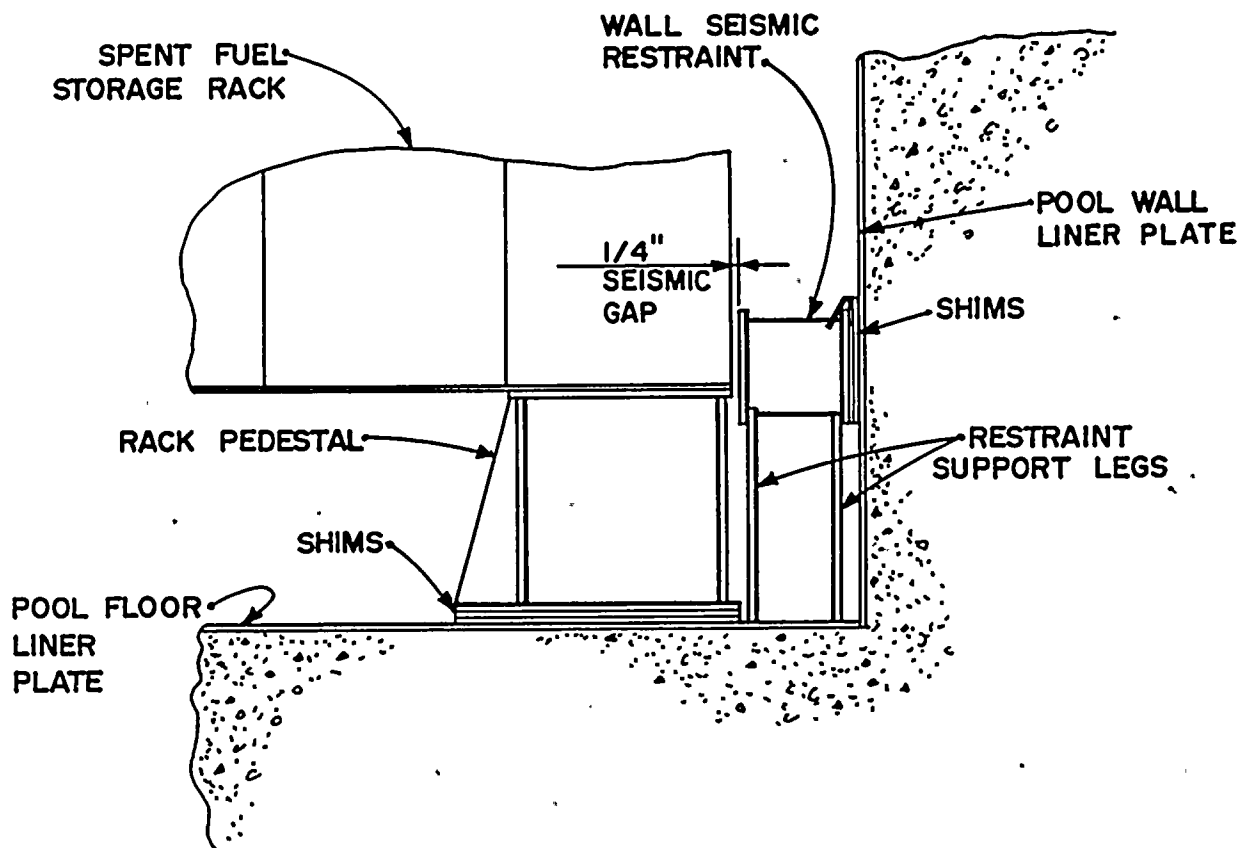


Figure 2



SEISMIC RESTRAINT AT WALL AND RACK PEDESTAL



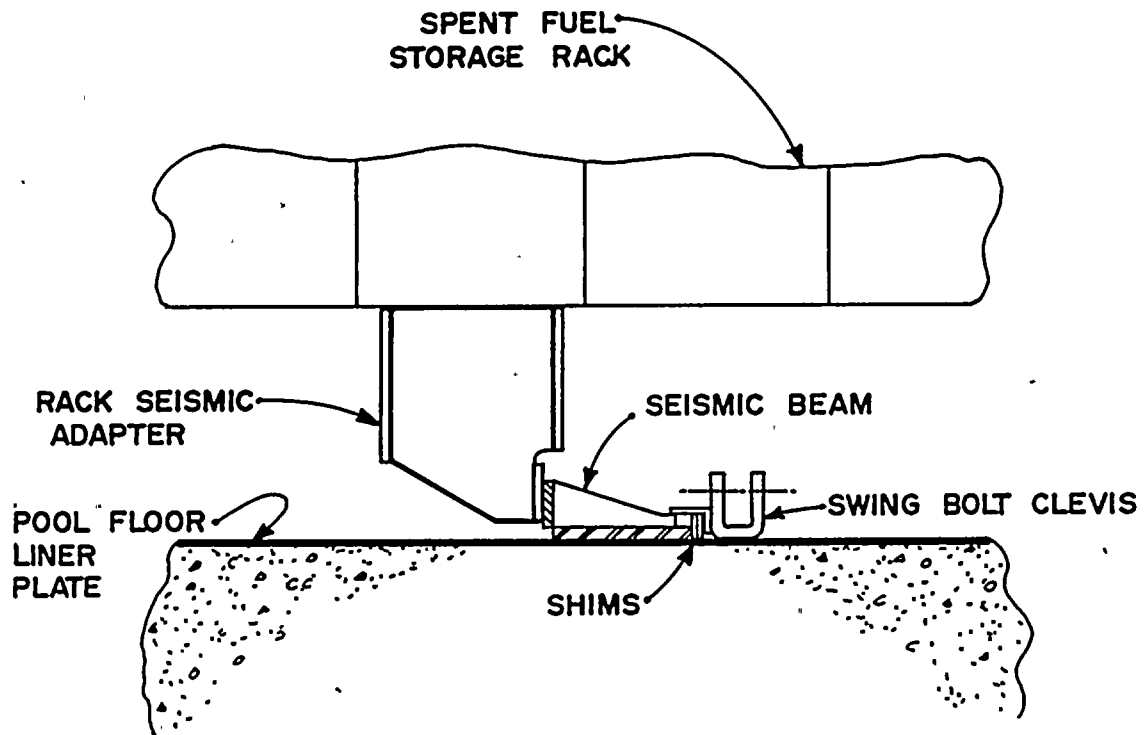
SECTION 1-1

Figure 3



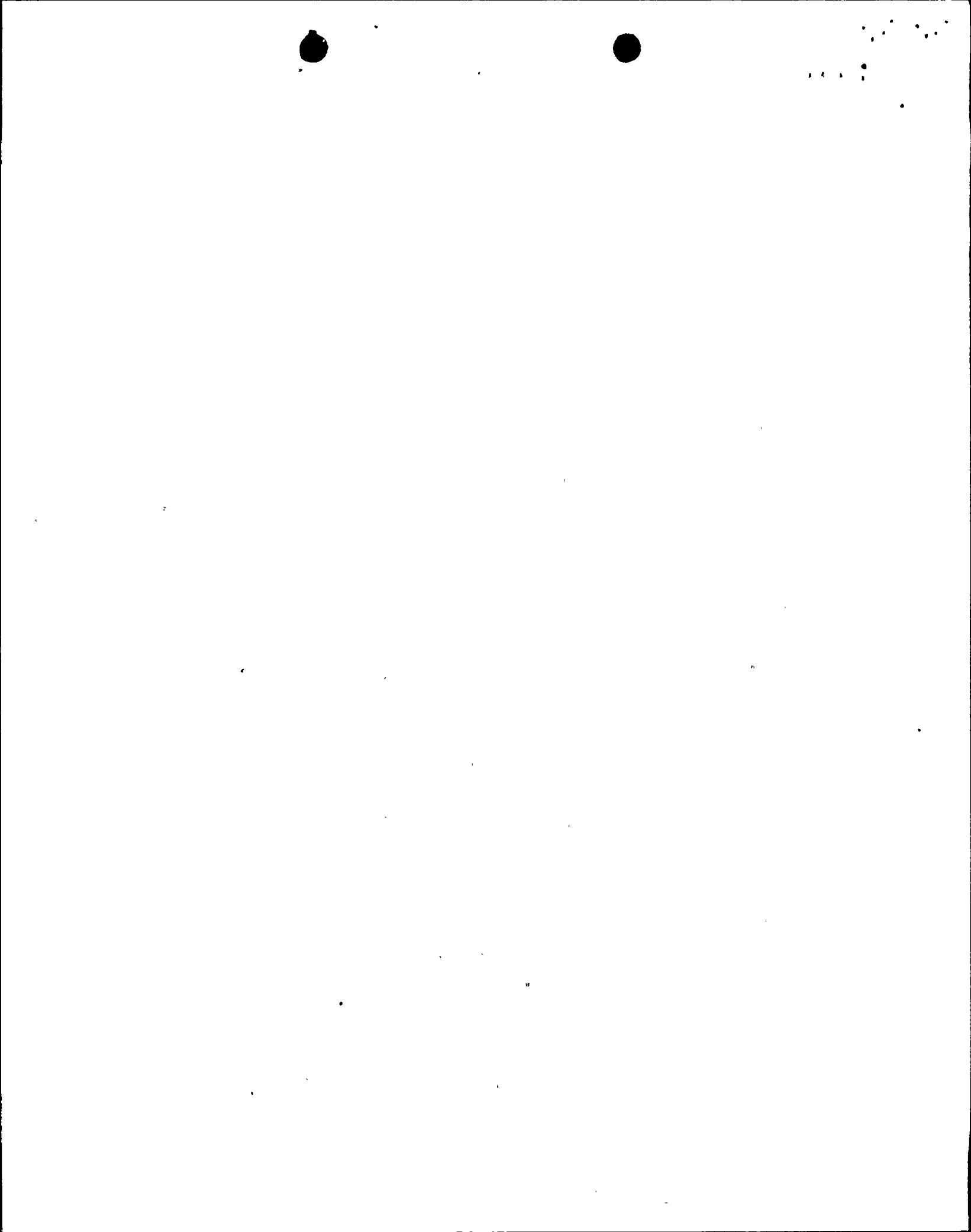
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SEISMIC RESTRAINT BEAM AT SWING
BOLT CLEVIS

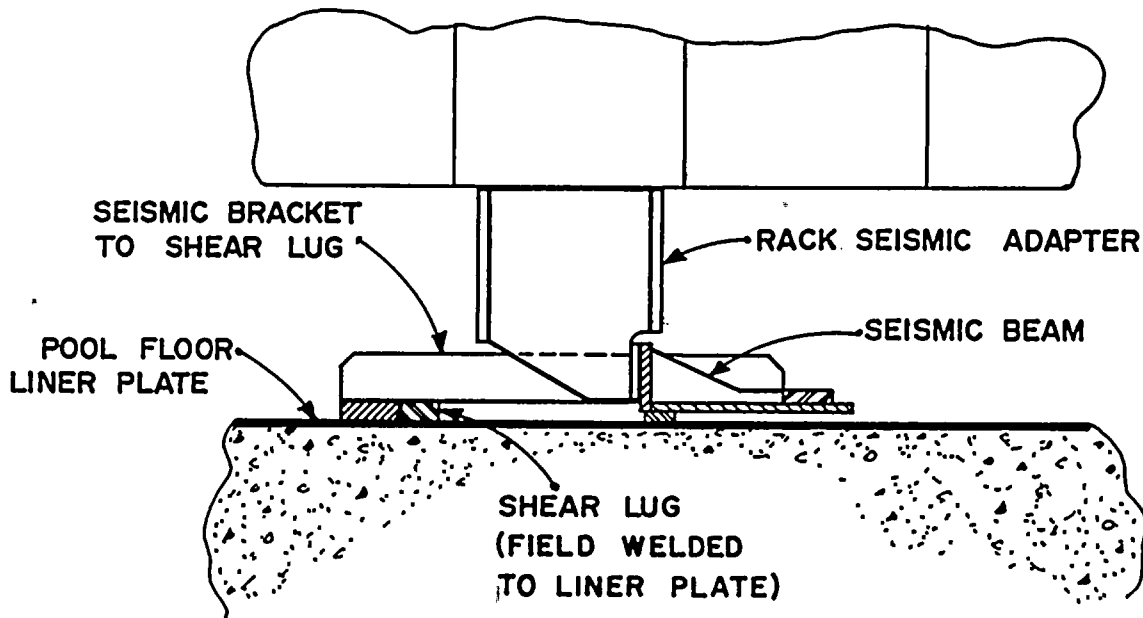


SECTION 2-2

Figure 4

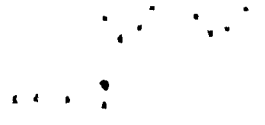


SEISMIC RESTRAINT BEAM AT
SHEAR LUG



SECTION 3-3

Figure 5



RACK CONSTRUCTION AND FUSION WELDS

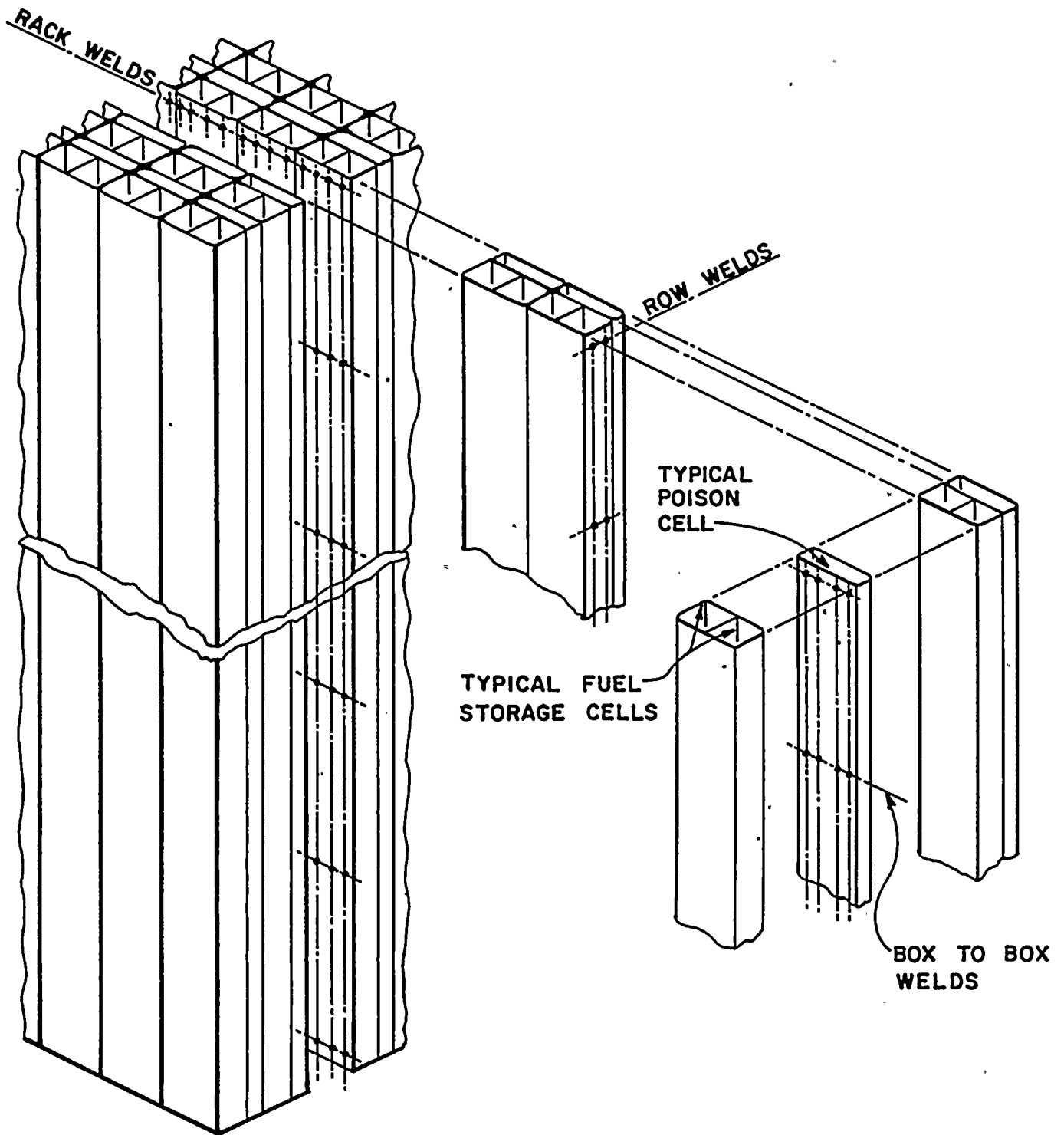
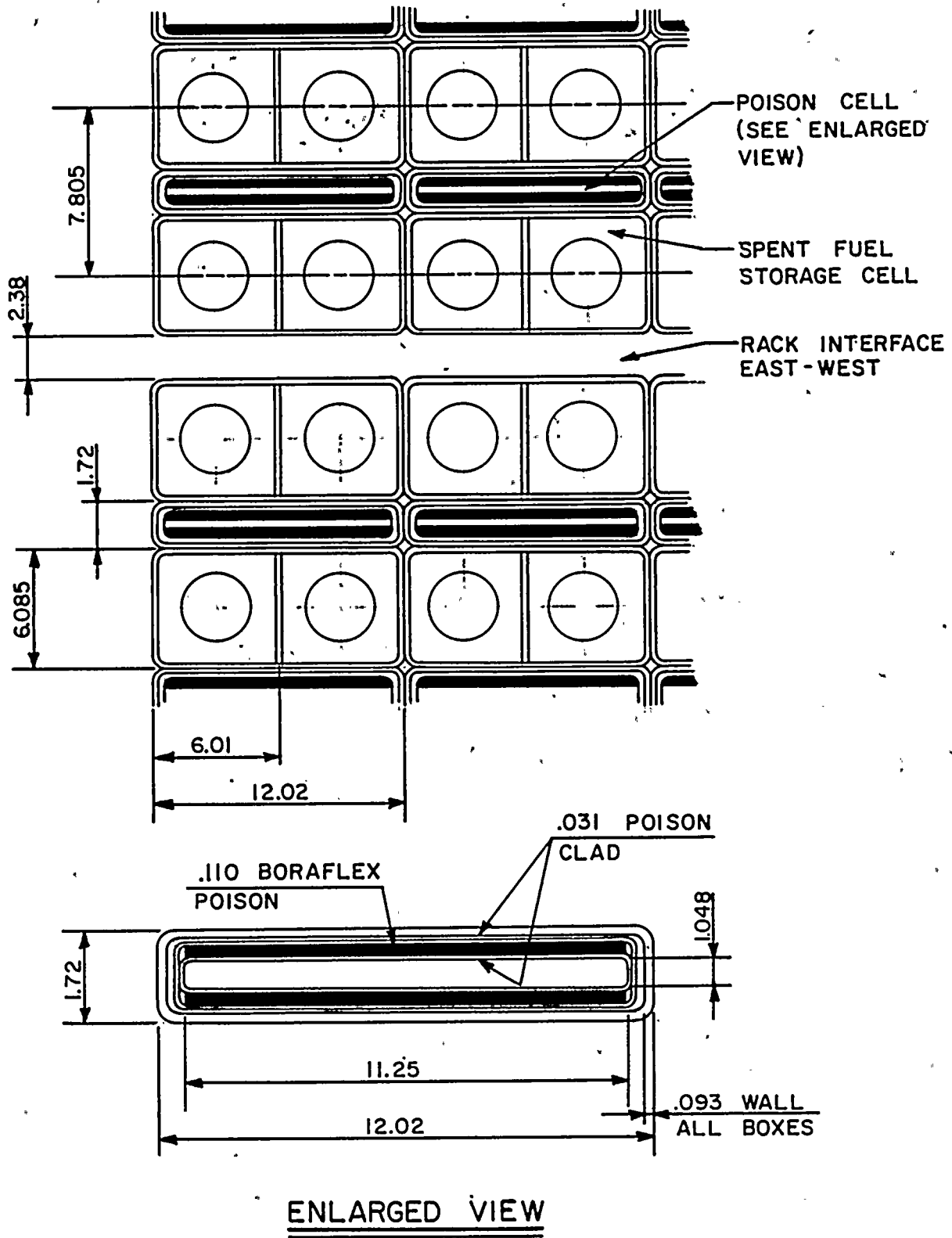


Figure 6



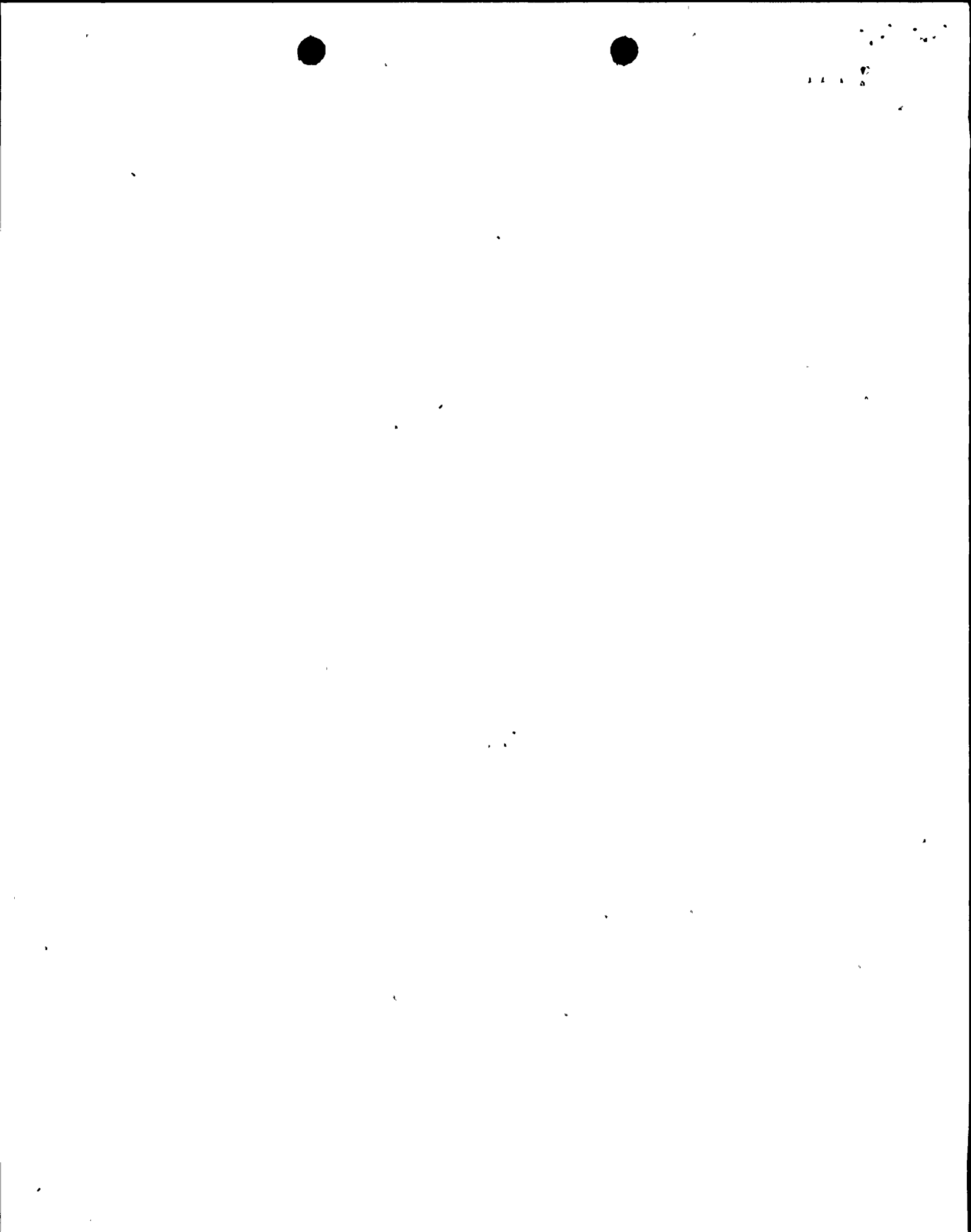
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SPENT FUEL STORAGE RACKS - PHASE II (POISON DESIGN)



ENLARGED VIEW

Figure 7.





PHASE II - INTERIM INSTALLATION

PLAN OF SPENT FUEL POOL INDICATING WORK PLATFORMS

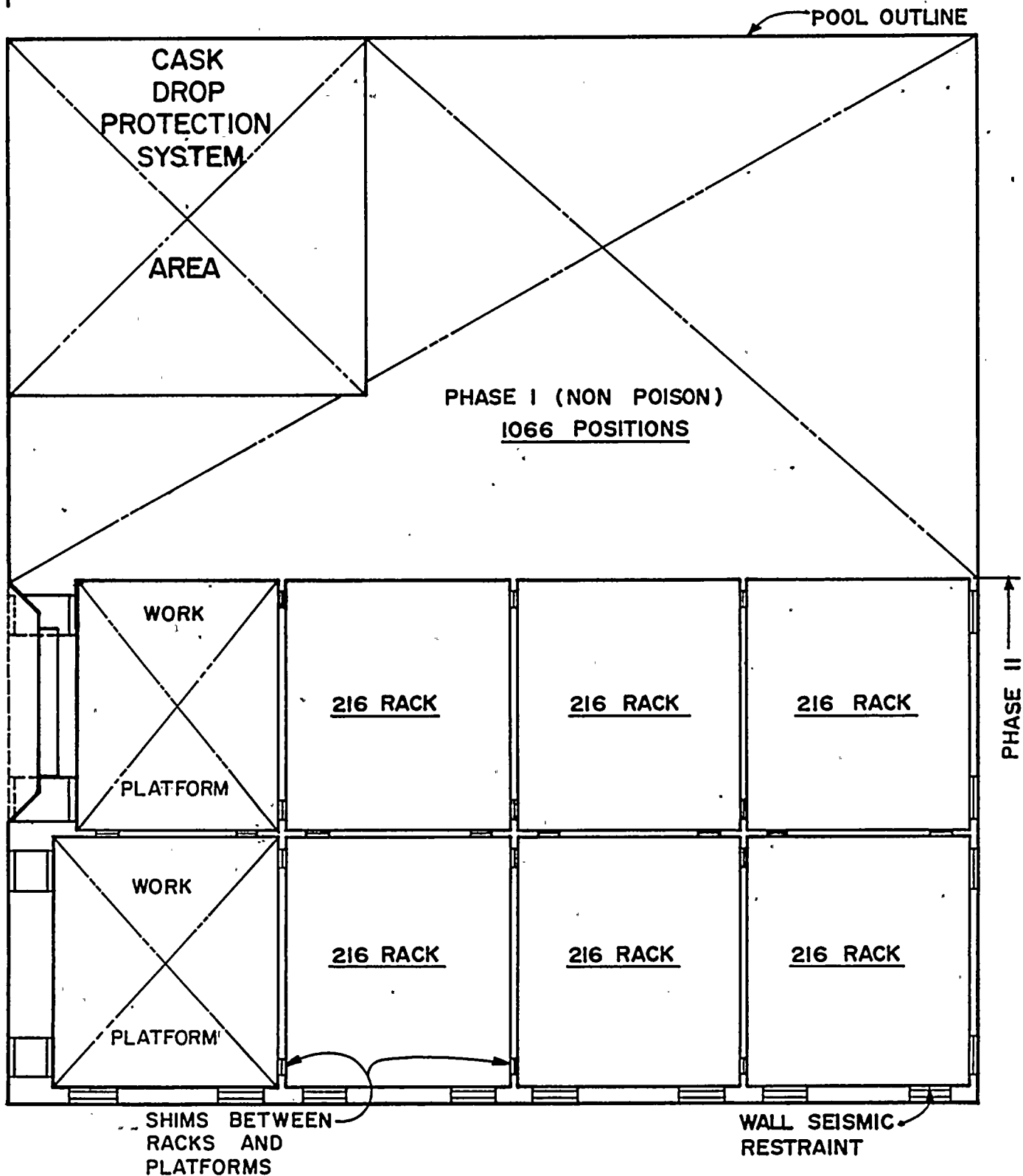
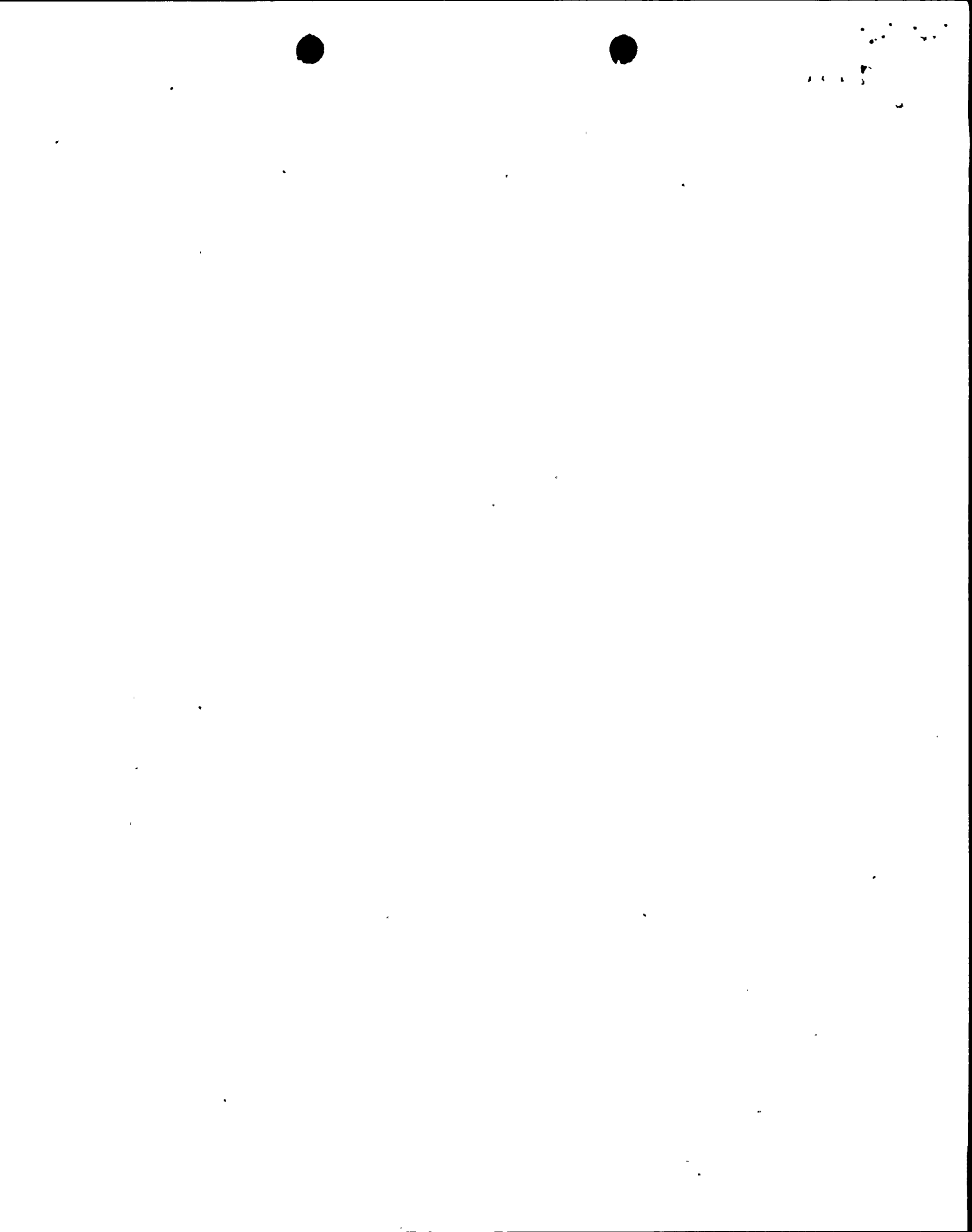


Figure 8



BASIC RACK CELL GEOMETRY
AND DIMENSIONS FOR THE MINIMUM
PITCH BETWEEN BUNDLES
 (ALL DIMENSIONS IN INCHES)

MATERIALS

1. Homogenized Fuel Pin Cells
2. Explicit Water
3. Explicit Stainless Steel
4. Homogenized Water Rod Cells
5. Explicit Boraflex

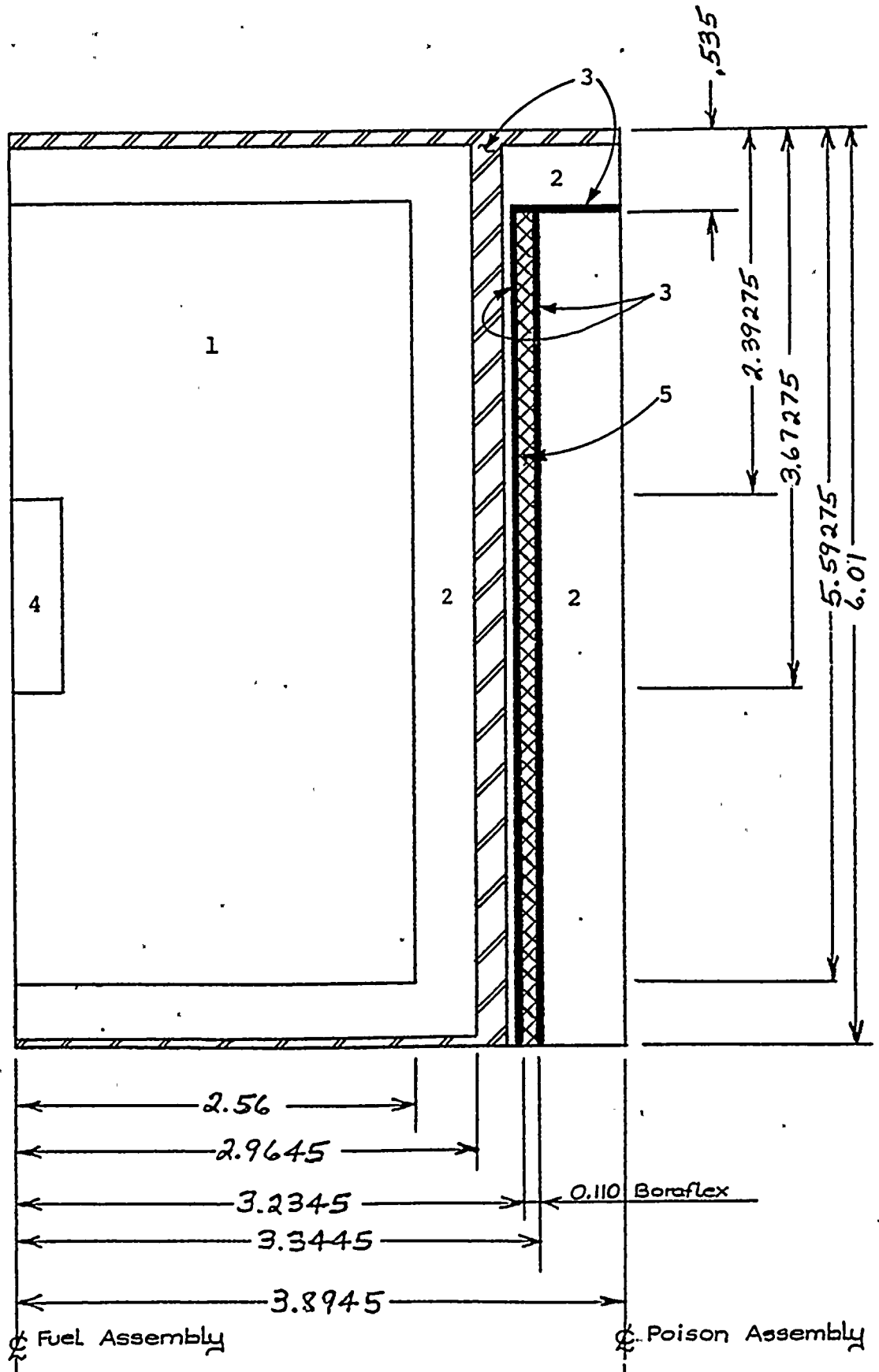
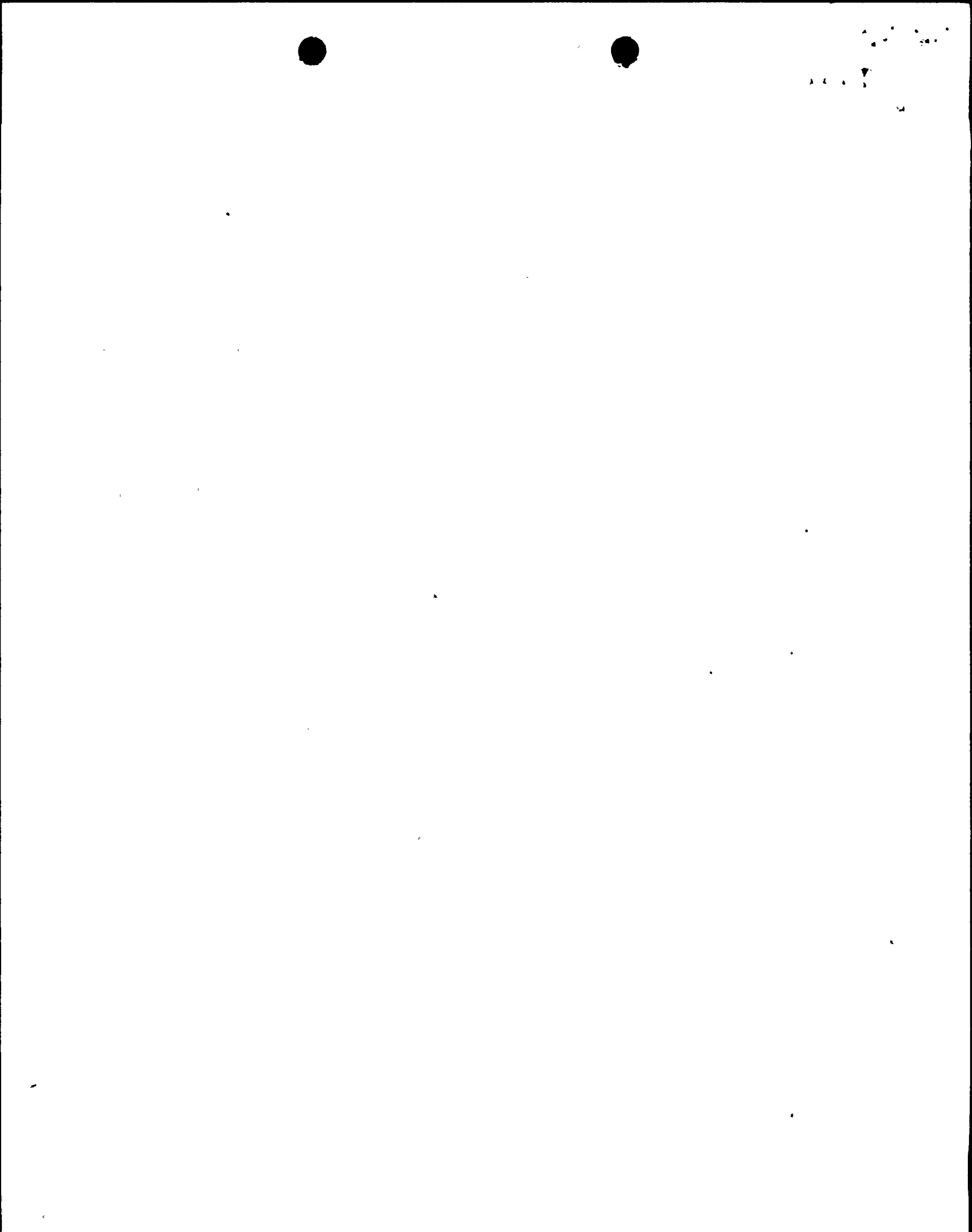
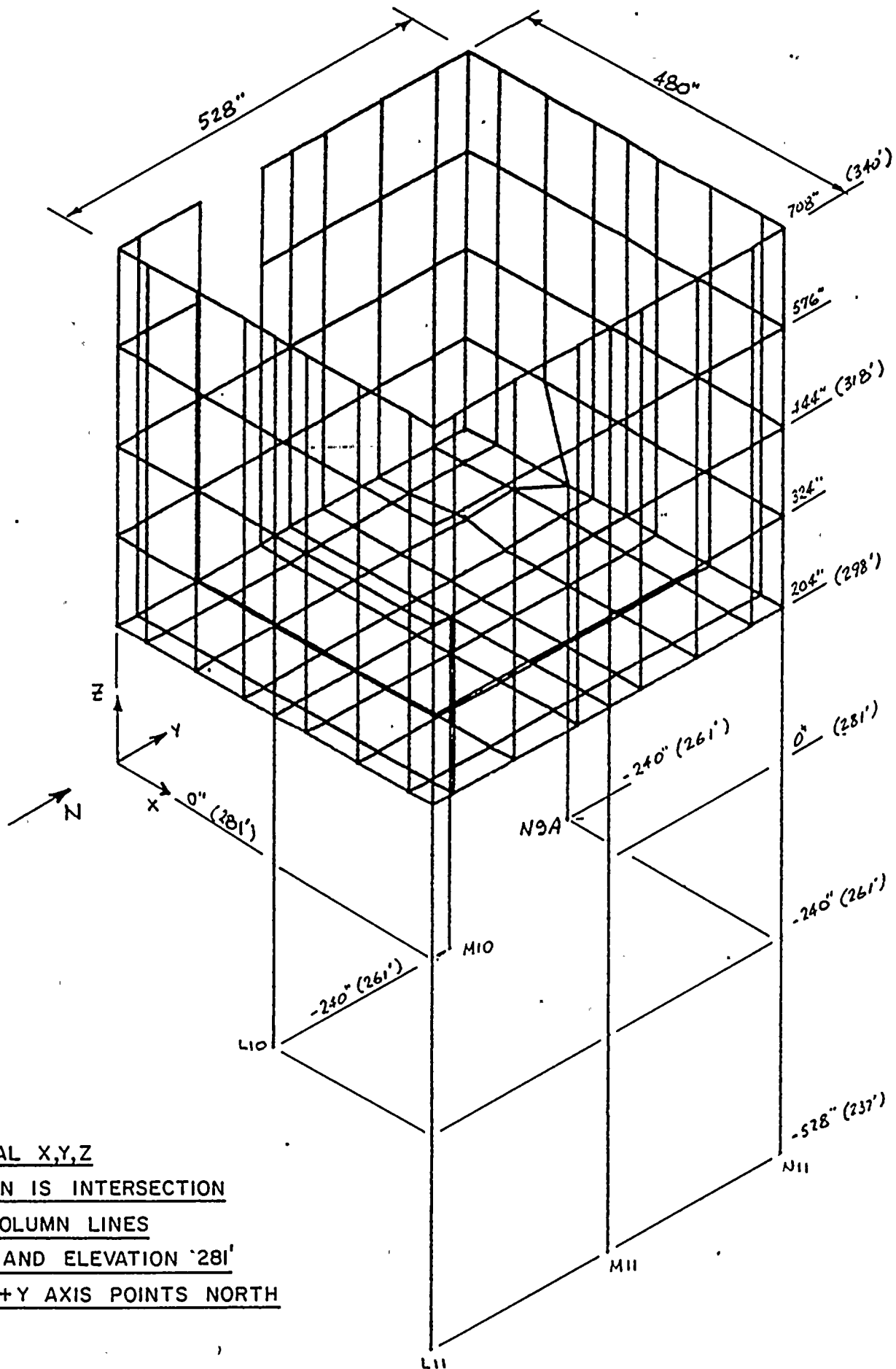


Figure 9

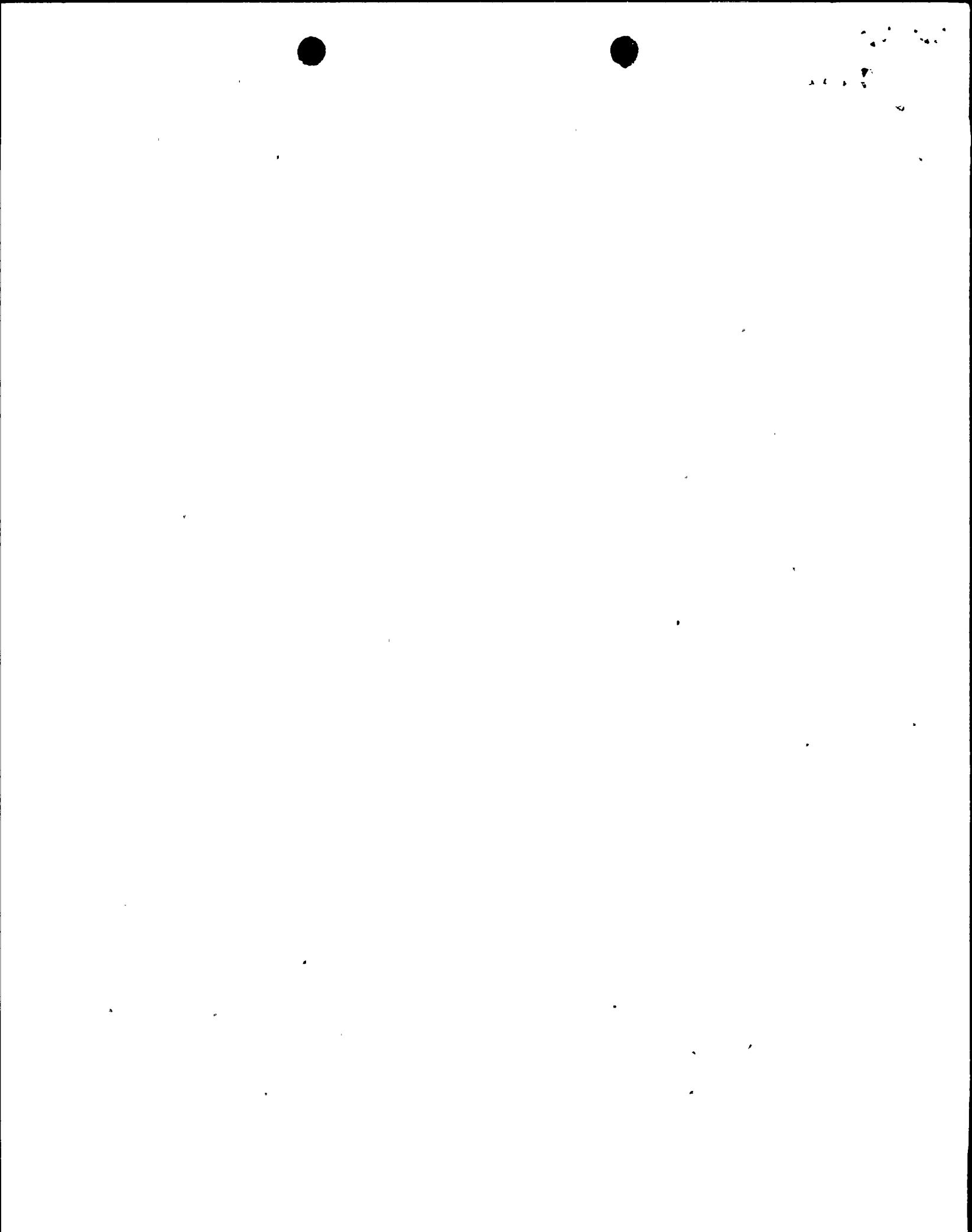


SPENT FUEL POOL 3D SHELL MODEL



NOTE
GLOBAL X,Y,Z
ORIGIN IS INTERSECTION
OF COLUMN LINES
L,9, AND ELEVATION 281'
THE +Y AXIS POINTS NORTH

Figure 10.



PLAN OF SPENT FUEL POOL FLOOR SHOWING BEAMS AND SLABS

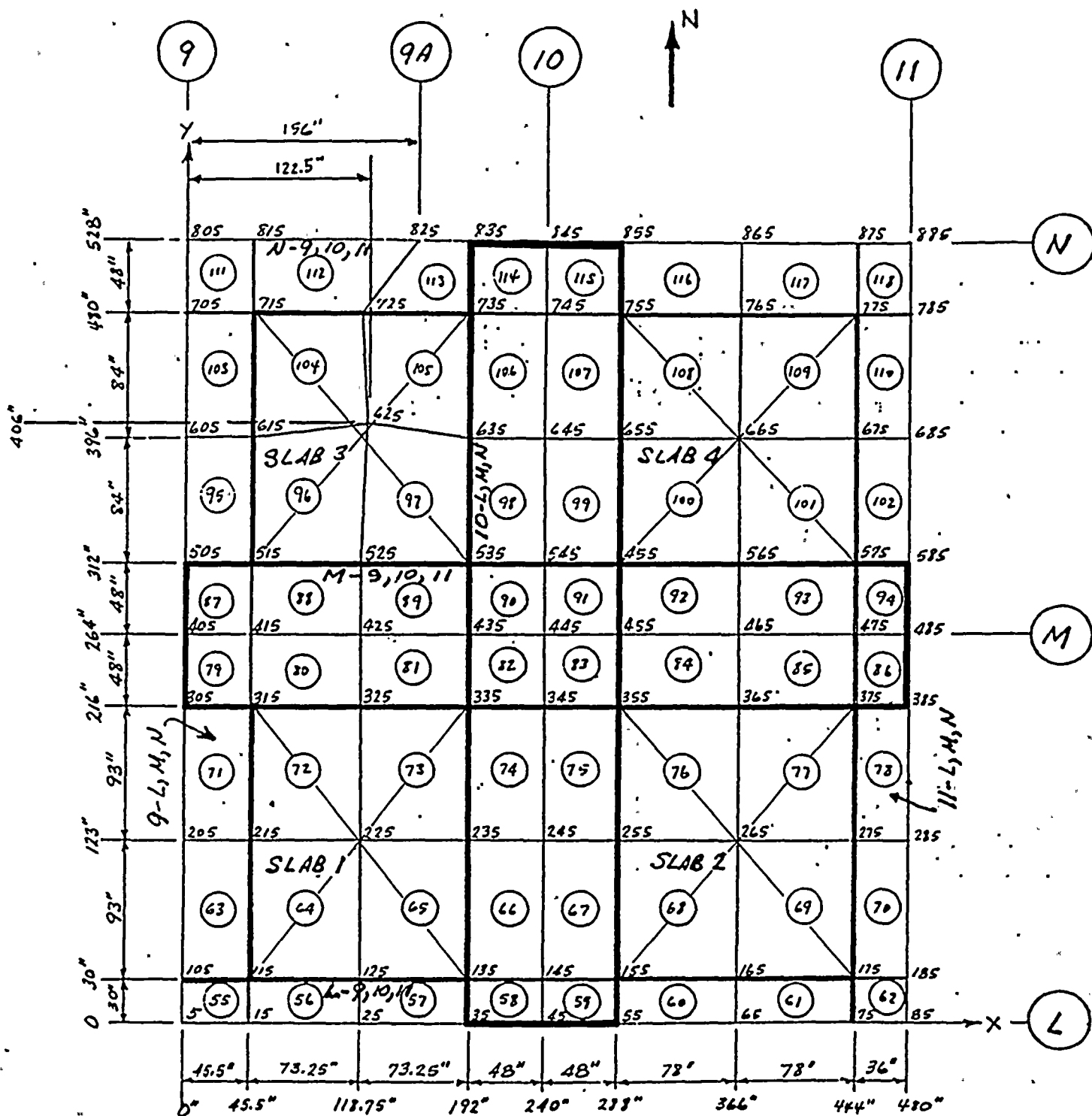
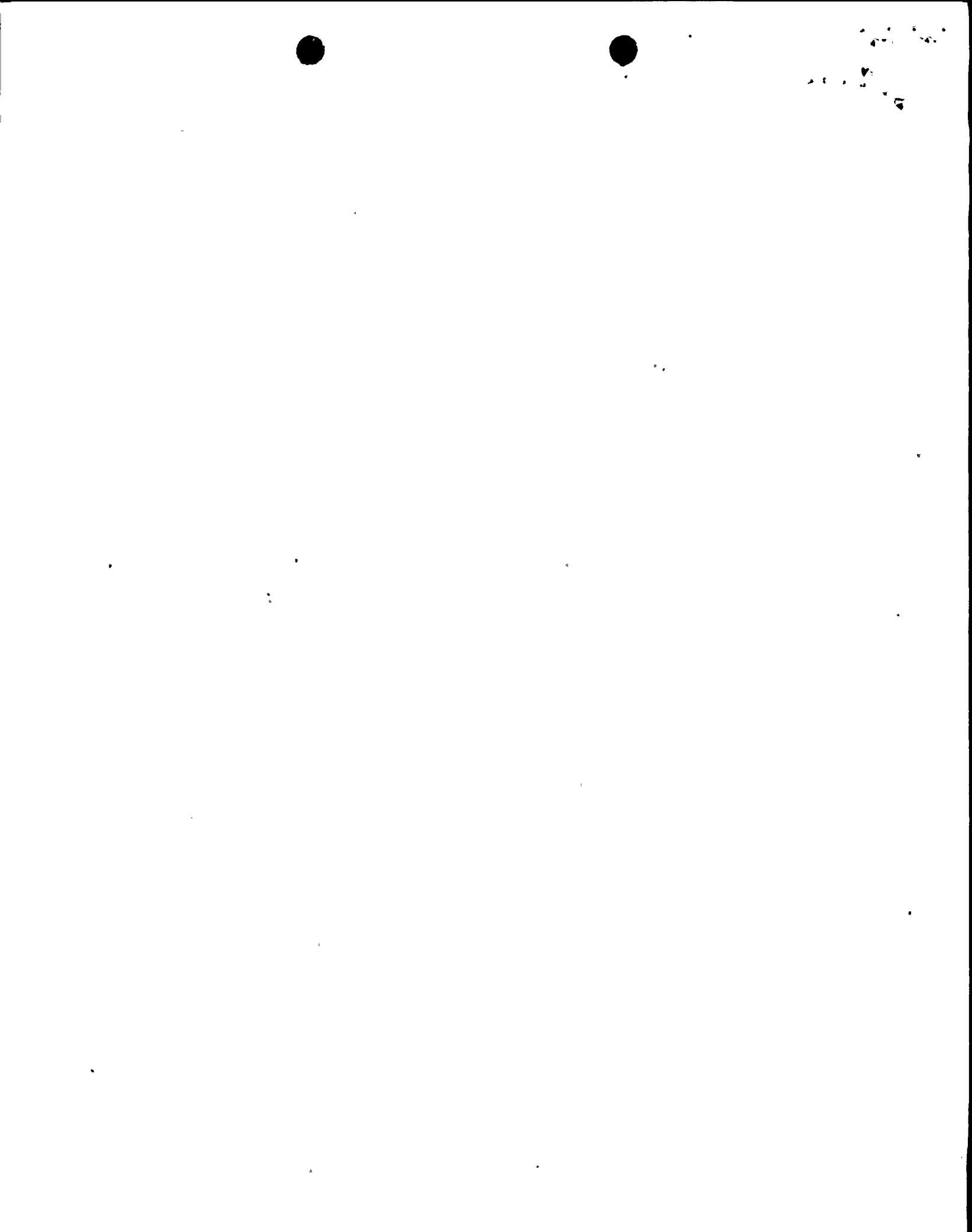


Figure II



BEAM ELEMENTS USED IN STRUCTURAL EVALUATION OF COLUMNS

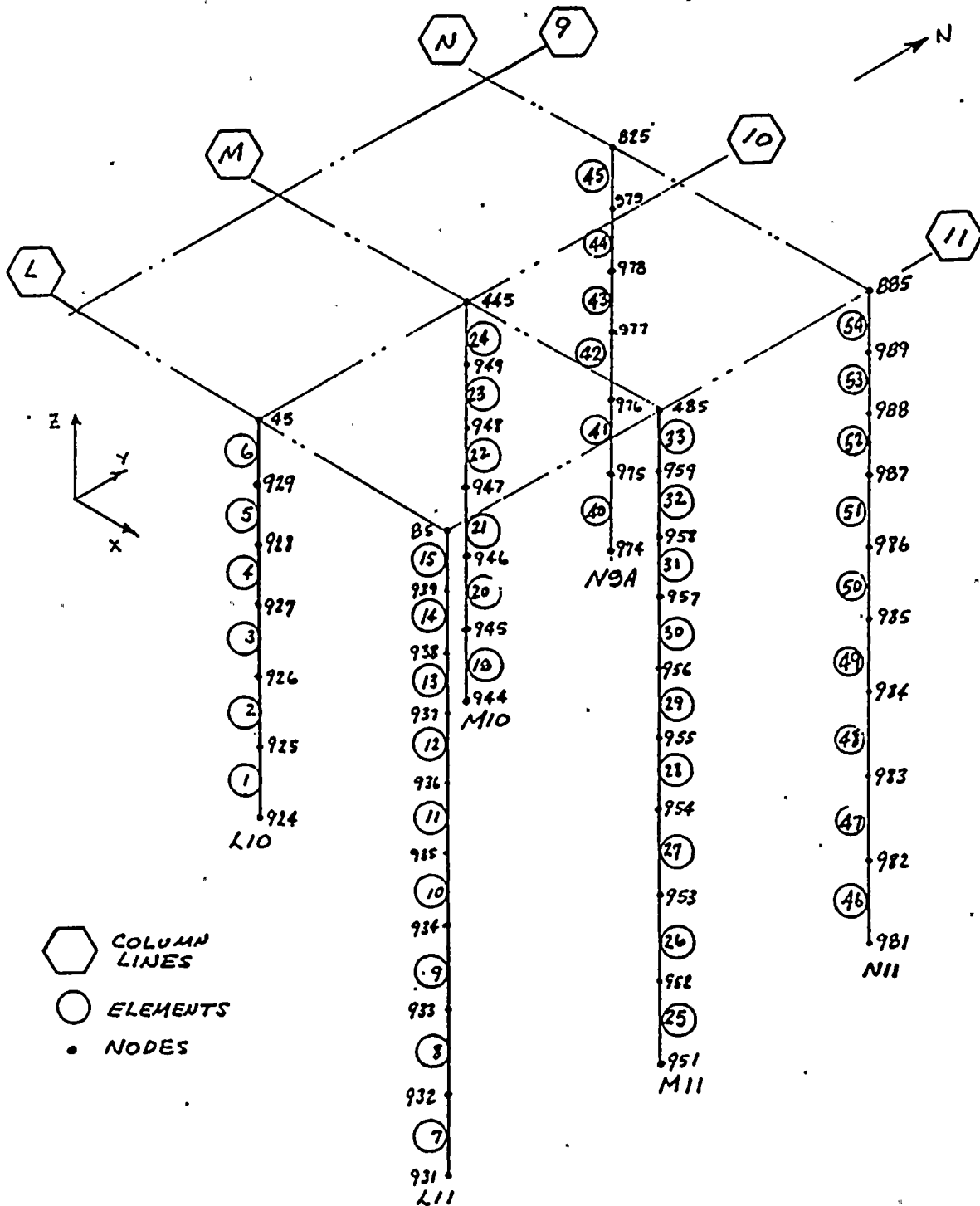


Figure 12

