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Reviewing Official:

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EG&G Mound Applied  
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Date: March 28, 1996

# Volume 12 ENVIRONMENTAL APPRAISAL REPORT OF THE MOUND PLANT

March 29, 1996

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Reviewing *J. A. Nesheim*  
Official: *EMCOC Class in Office*

Date: 09-29-2011

# **ENVIRONMENTAL APPRAISAL REPORT OF THE MOUND PLANT Volume 12**

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# Environmental Appraisal of the Mound Plant

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# Environmental Appraisal of the Mound Plant

## LIST OF ACRONYMS

|           |                                                                               |
|-----------|-------------------------------------------------------------------------------|
| ACBM      | asbestos-containing building material                                         |
| ASTM      | American Society for Testing and Materials                                    |
| CERCLA    | Comprehensive Environmental Response, Compensation, and Liability Act of 1980 |
| D&D       | decontamination and decommissioning                                           |
| DOD       | Department of Defense                                                         |
| DOE       | Department of Energy                                                          |
| DOT       | Department of Transportation                                                  |
| EA        | environmental assessment                                                      |
| EMSOC     | Energetic Materials Safety Overview Committee                                 |
| EPA       | Environmental Protection Agency                                               |
| ER        | environmental restoration                                                     |
| ES&H      | environment, safety and health                                                |
| FY        | fiscal year                                                                   |
| HAZWOPPER | hazardous waste operation and emergency response training                     |
| HEPA      | high-efficiency particulate air                                               |
| HP        | health physics                                                                |
| LDR       | Land Disposal Restricted                                                      |
| LSA       | low specific activity                                                         |
| NEPA      | National Environmental Policy Act                                             |
| NESHAP    | National Emission Standards for Hazardous Air Pollution                       |
| NIOSH     | National Institute for Occupational Safety and Health                         |
| NPDES     | National Pollutant Discharge Elimination System                               |
| NRC       | Nuclear Regulatory Commission                                                 |
| NTS       | Nevada Test Site (DOE)                                                        |
| OAC       | Ohio Administrative Code                                                      |
| OEPA      | Ohio Environmental Protection Agency                                          |
| OSHA      | Occupational Safety and Health Administration                                 |
| OSP       | Orphan Source Program                                                         |
| PCB       | polychlorinated biphenyl                                                      |
| RCRA      | Resource Conservation and Recovery Act                                        |
| RTG       | radioisotopic thermoelectric generator                                        |
| SAR       | Safety Analysis Report                                                        |
| SARA      | Superfund Amendments and Reauthorization Act                                  |
| SPCC      | spill prevention, control, and countermeasures                                |
| TRU       | transuranic                                                                   |
| TRUESOC   | Transuranic Environmental and Safety Overview Committee                       |
| TSCA      | Toxic Substances Control Act                                                  |
| UST       | underground storage tank                                                      |
| UCNI      | unclassified controlled nuclear information                                   |
| VOC       | volatile organic compounds                                                    |

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DERIVATIVE CLASSIFIER

*C. D. Myers*  
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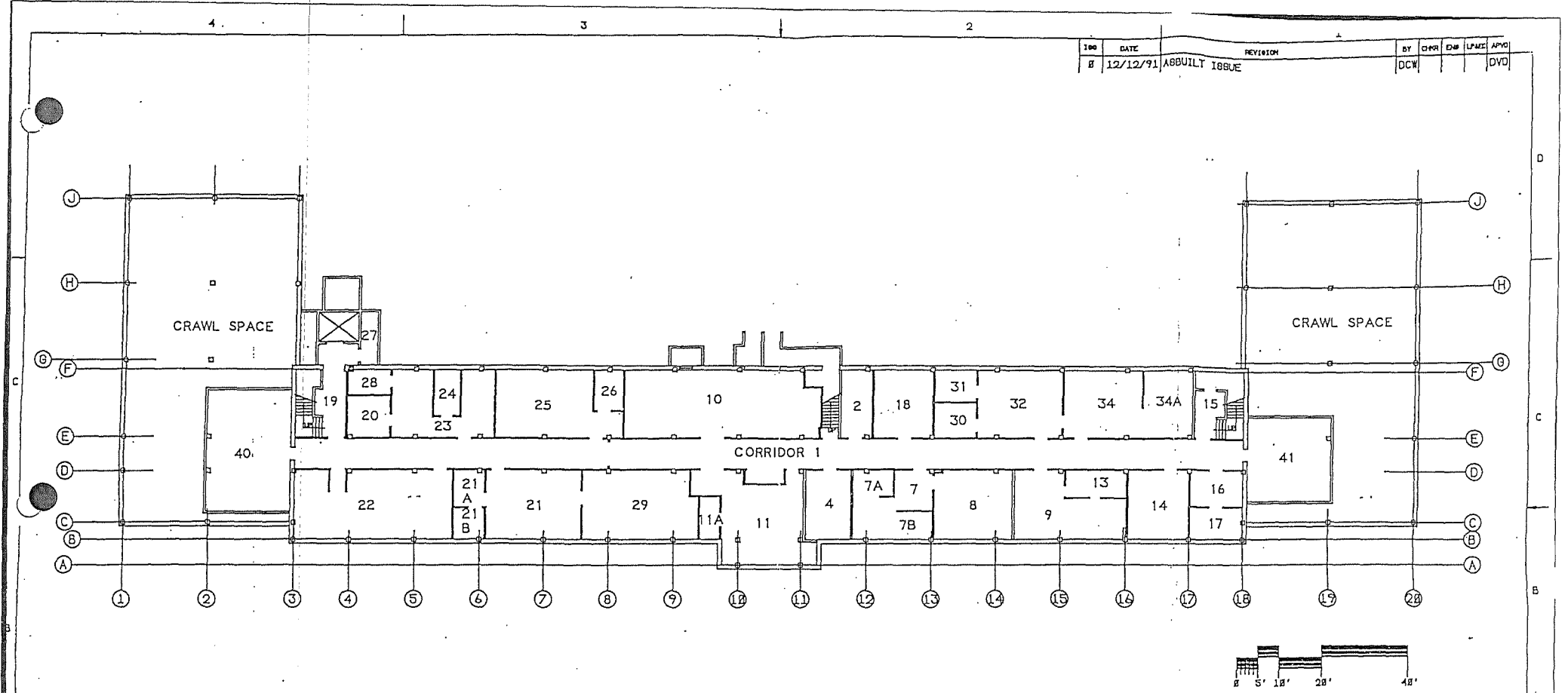
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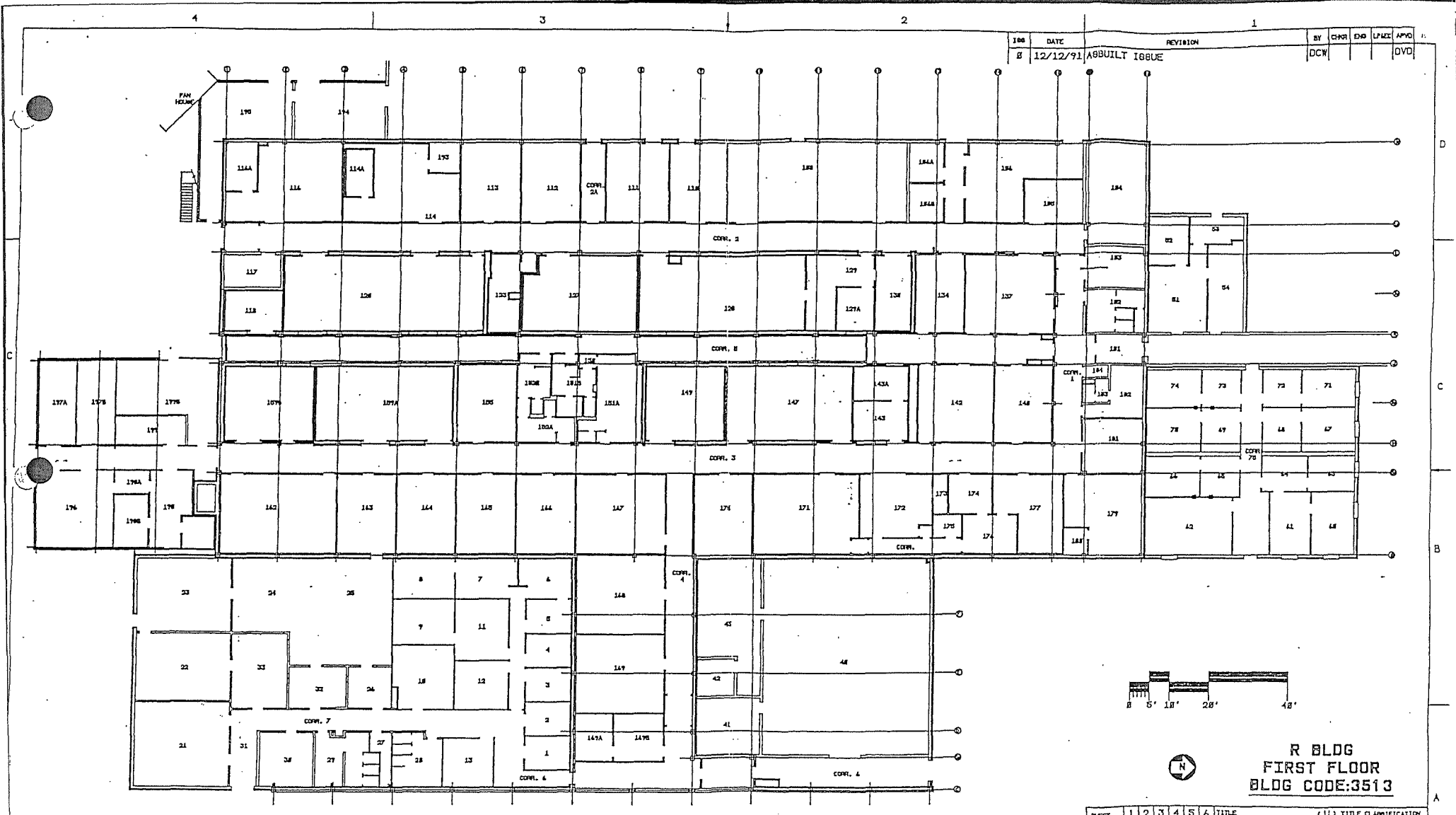
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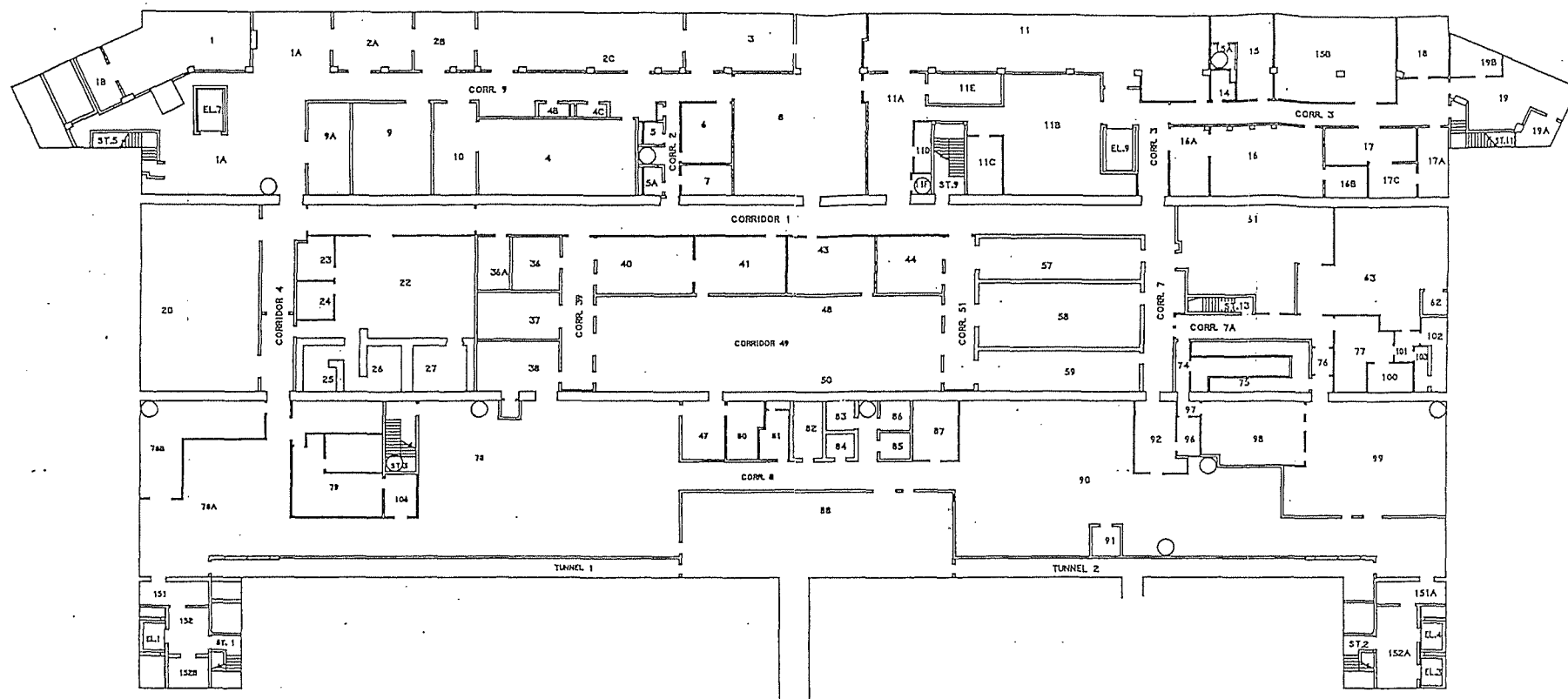
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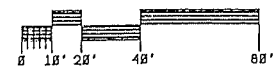
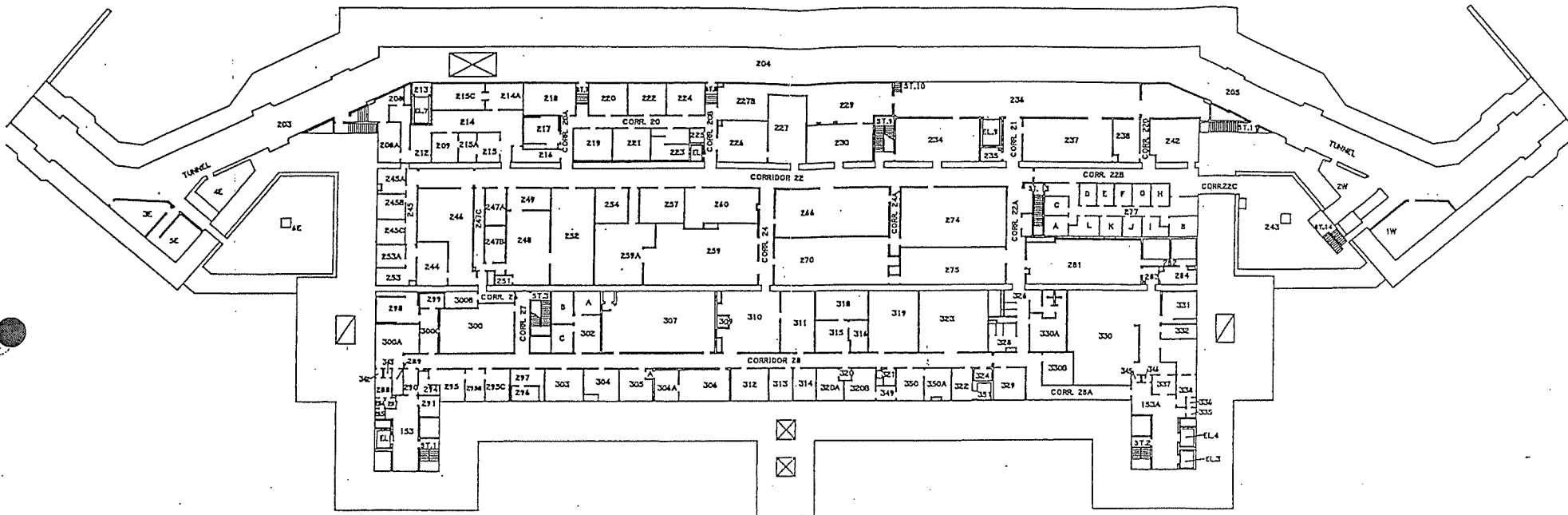


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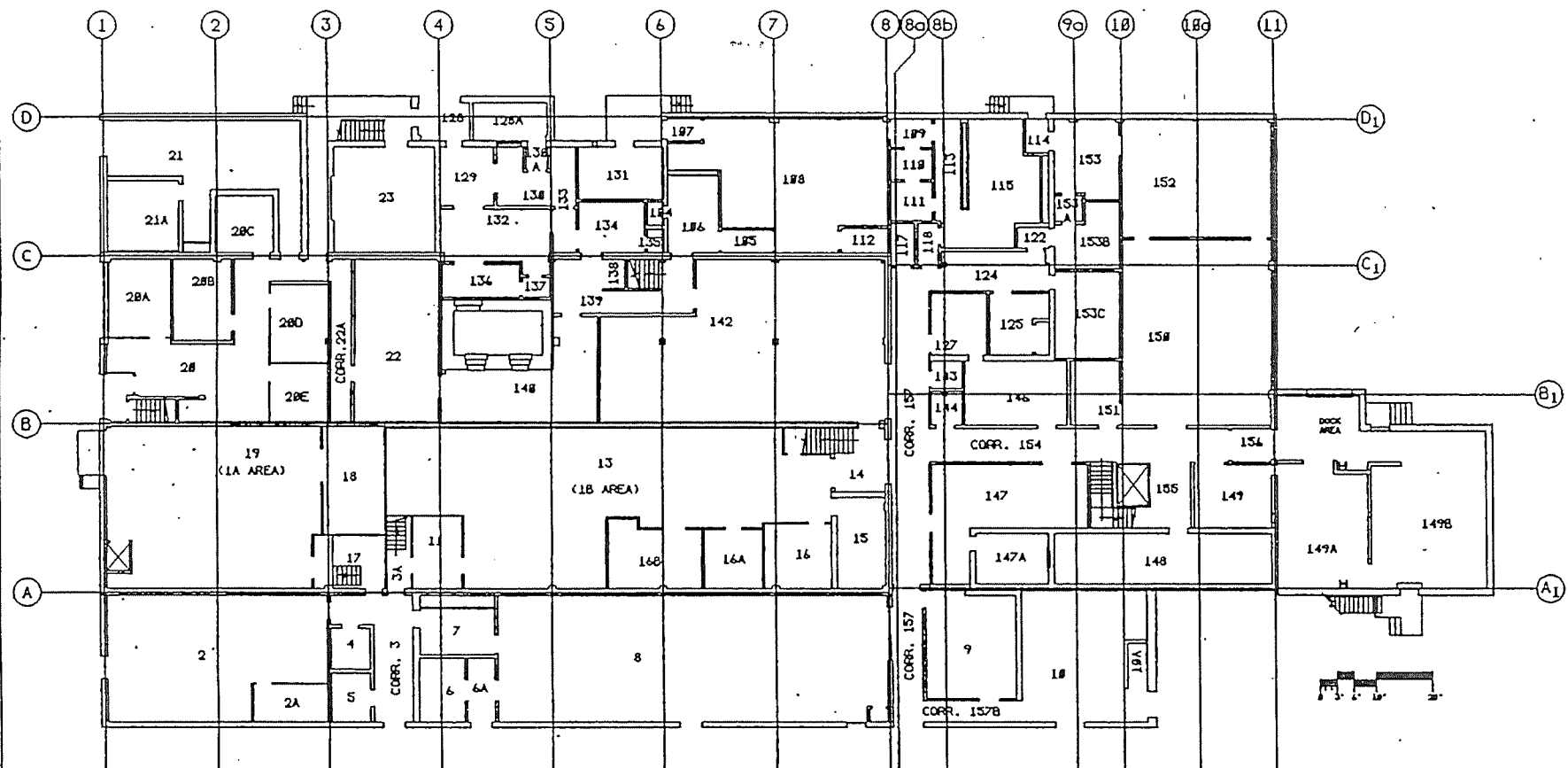
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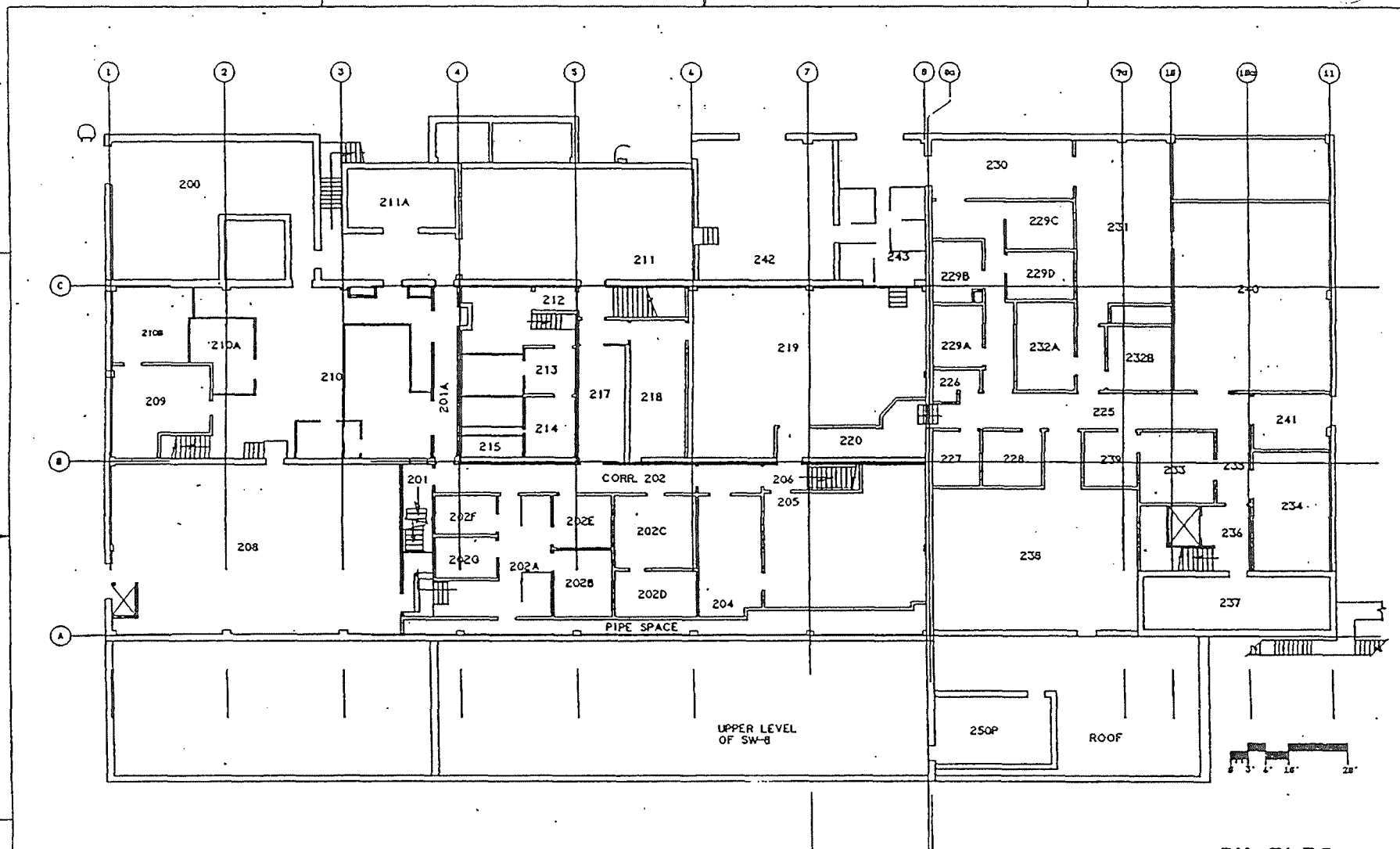
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| 849     | 850 | 851 | 852 | 853 | 854 |   |             |
| 855     | 856 | 857 | 858 | 859 | 860 |   |             |
| 861     | 862 | 863 | 864 | 865 | 866 |   |             |
| 867     | 868 | 869 | 870 | 871 | 872 |   |             |
| 873     | 874 | 875 | 876 | 877 | 878 |   |             |
| 879     | 880 | 881 | 882 | 883 | 884 |   |             |
| 885     | 886 | 887 | 888 | 889 | 890 |   |             |
| 891     | 892 | 893 | 8   |     |     |   |             |

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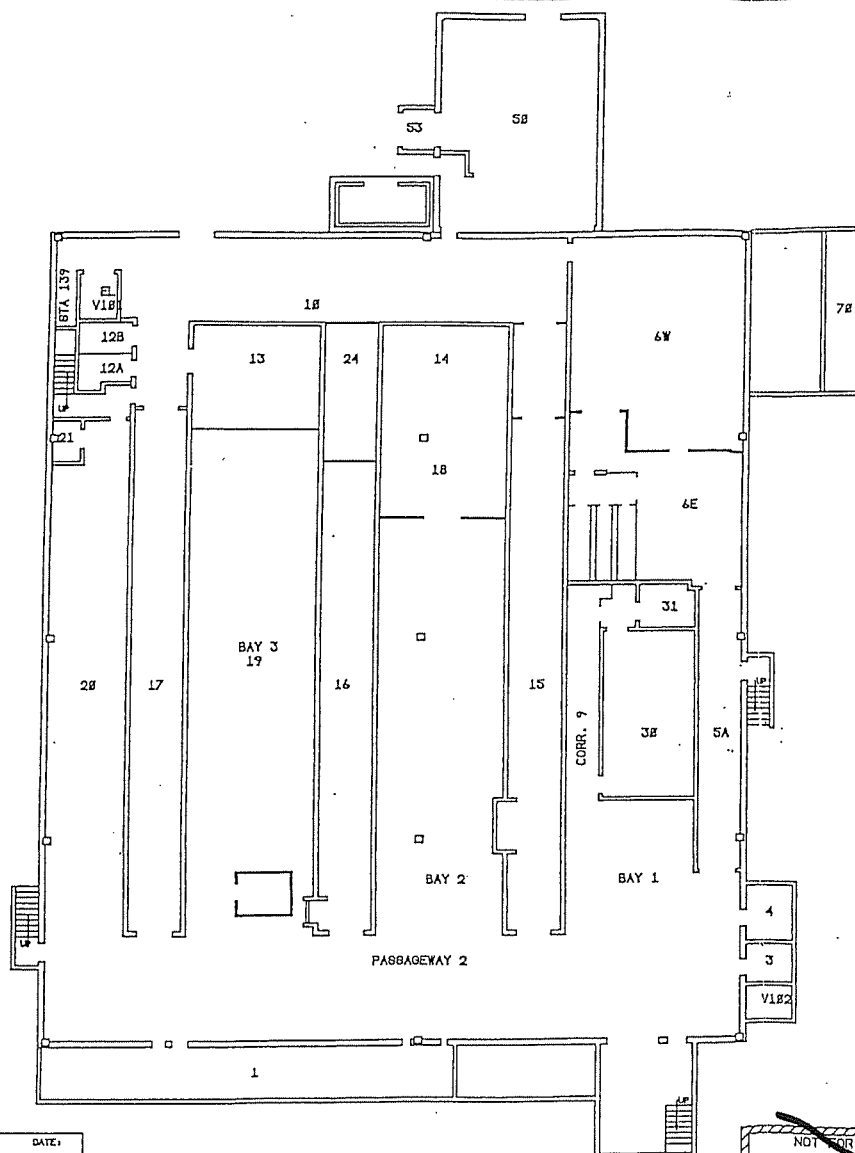


SW BLDG  
SECOND FLOOR  
BLDG CODE:3518

|                                                                                                                                                                                                                                                                 |  |                                                                                   |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--------------------------------------|
| <p><b>NOT FOR PUBLIC DISSEMINATION</b></p> <p>MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION SUBJECT TO SECTION 148 OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED (42 USC 2168). APPROVAL BY THE DEPARTMENT OF ENERGY PRIOR TO RELEASE IS REQUIRED.</p> |  | <p>DATE OF REVISION</p> <p>FSC911324</p> <p>CLASSIFICATION</p> <p><b>UCNT</b></p> | <p>JOB NUMBER</p> <p>12335</p>       |
|                                                                                                                                                                                                                                                                 |  | <p>SCALE AS NOTED</p> <p>SCALE 1:4865</p> <p>FIGURE 8</p> <p>SHEET 2</p>          | <p>STATUS</p> <p>MO-REL-12/12/91</p> |

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| REV | DATE     | REVISION      | BY  | CHK | DES | DATE | APP |
|-----|----------|---------------|-----|-----|-----|------|-----|
| 1   | 12/12/91 | ASBUILT ISSUE | DCW |     |     |      | DVD |



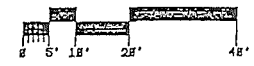
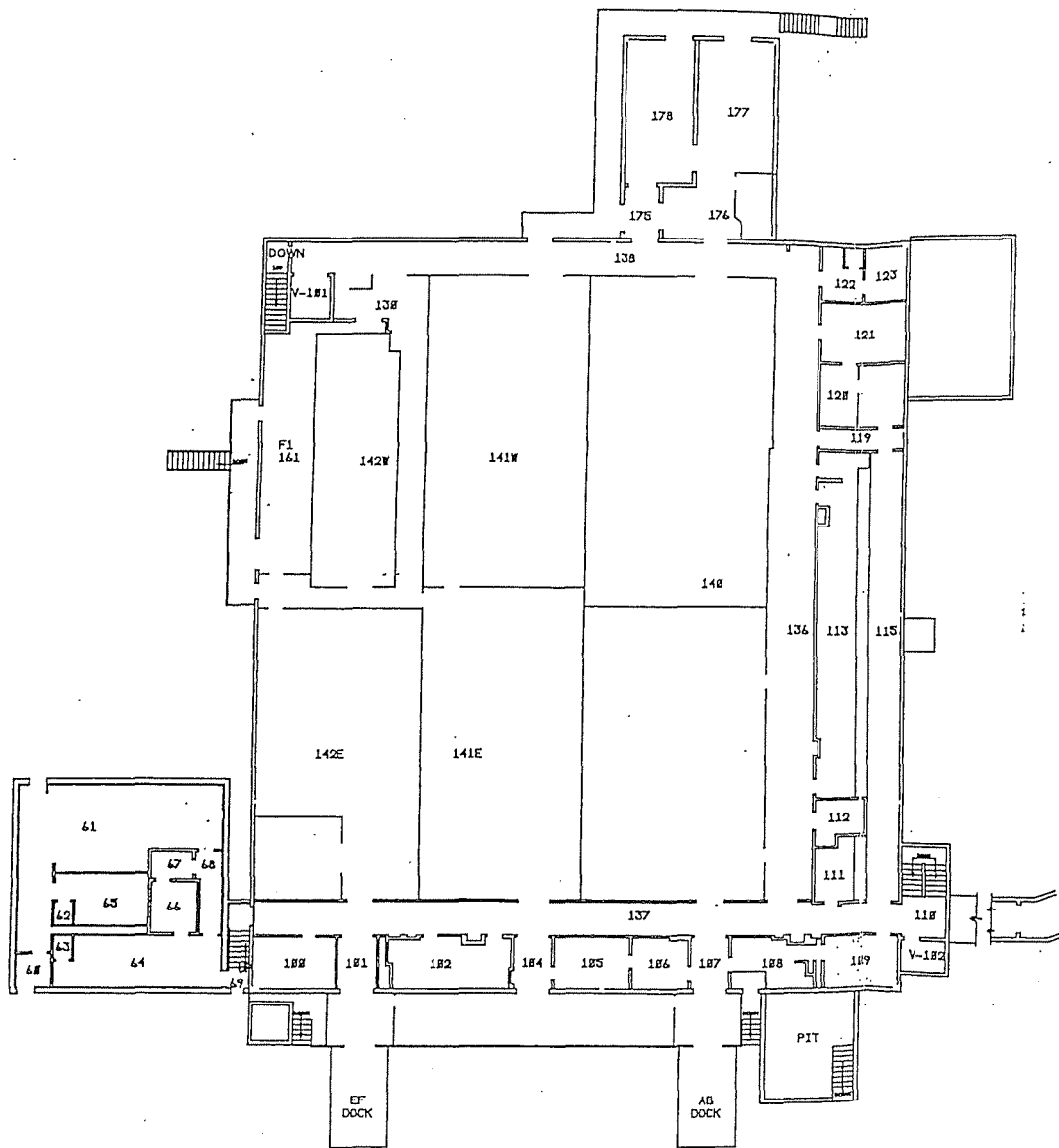
BLDG #38  
FIRST FLOOR  
BLDG CODE:3038

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| DESIGNED BY | DATE |
| CHECKED BY  |      |
| INSTR. NO.  |      |
| DATE        |      |
| DESIGNED BY |      |
| INSTR. NO.  |      |
| DATE        |      |

**NOT FOR PUBLIC DISSEMINATION**

MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION SUBJECT TO SECTION 148 OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED (42 USC 2168). APPROVAL BY THE DEPARTMENT OF ENERGY PRIOR TO RELEASE IS REQUIRED.

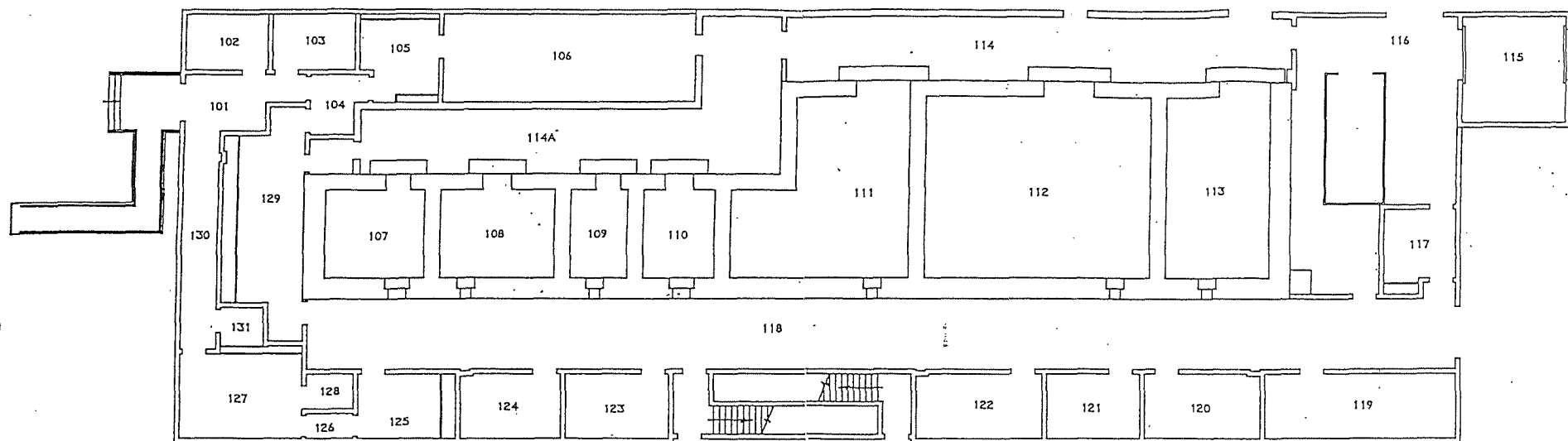
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|------------------------|---|---|---|---|---|---|------------------------|--------------------------|
| DESIGN                 | 1 | 2 | 3 | 4 | 5 | 6 | TITLE                  | (U) TITLE CLASSIFICATION |
| ISSUE                  | 1 | 2 | 3 | 4 | 5 | 6 | BLDG #38               |                          |
| PART CLASSIFICATION    |   |   |   |   |   |   | FLOOR PLANS            |                          |
| DRAWING CLASSIFICATION |   |   |   |   |   |   | SIZE                   | DRAWING NUMBER           |
| DATE                   |   |   |   |   |   |   | D                      | FSD911249                |
| DATE                   |   |   |   |   |   |   | FROM BLDG #38          | 12335                    |
| DATE                   |   |   |   |   |   |   | SCALE 1/8"=1'-0"       | SHEET 1 OF 2             |
| DATE                   |   |   |   |   |   |   | STATUS MD-REL-12/12/91 | ORIGIN MD-BR3-V3.8       |



BLDG 838  
SECOND FLOOR  
BLDG CODE:3038

|                                                                                                                                                                                                                           |                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOT FOR PUBLIC DISSEMINATION                                                                                                                                                                                              |                                                                                                                                                                                  |
| MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR<br>INFORMATION SUBJECT TO SECTION 148 OF THE<br>ATOMIC ENERGY ACT OF 1954, AS AMENDED<br>(42 USC 2168). APPROVAL BY THE DEPARTMENT<br>OF ENERGY PRIOR TO RELEASE IS REQUIRED. | DRAWING NUMBER<br><b>FSD911249</b><br>DRAWING CLASSIFICATION<br><b>SECRET</b><br>SIZE<br><b>D</b><br>SHEET<br><b>1</b><br>SCALE AS NOTED<br>SHEET 2<br>STATUS<br>MO-REL-12/12/91 |

| ISS | DATE     | REVISION      | BY  | CHK | ENR | LMGR | APPROV |
|-----|----------|---------------|-----|-----|-----|------|--------|
| 8   | 12/12/91 | ASBUILT ISSUE | DCW |     |     |      | DVD    |



BLDG #50  
FIRST FLOOR  
BLDG CODE:3050



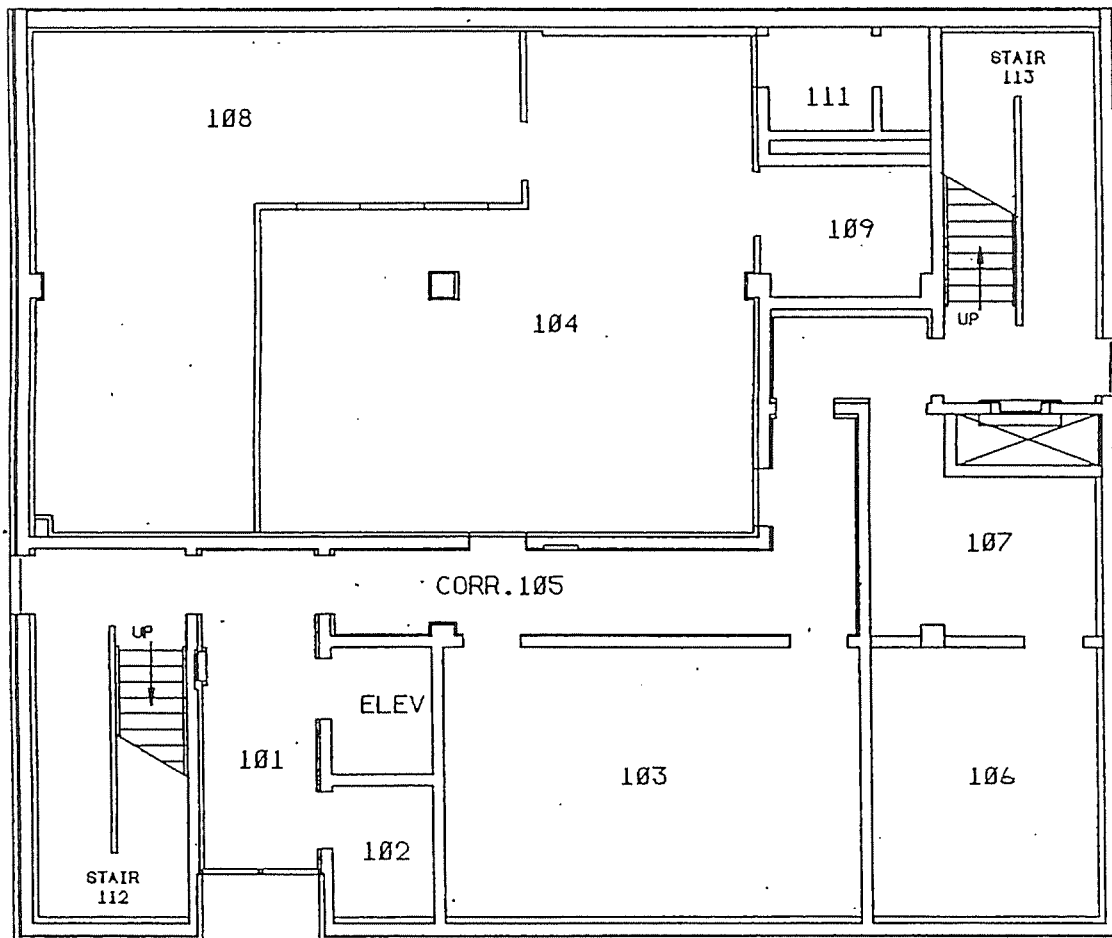
|         |  |
|---------|--|
| DATE:   |  |
| BY:     |  |
| CHK:    |  |
| ENR:    |  |
| LMGR:   |  |
| APPROV: |  |

**NOT FOR PUBLIC DISSEMINATION**

MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION SUBJECT TO SECTION 148 OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED (42 USC 2168). APPROVAL BY THE DEPARTMENT OF ENERGY PRIOR TO RELEASE IS REQUIRED.

|            |          |                        |   |             |  |                      |
|------------|----------|------------------------|---|-------------|--|----------------------|
| DESIGN ENR | PROJ TKN | SHEET                  |   | 1 2 3 4 5 6 |  | TITLE                |
| DPN        | END DOP  | ISSUE                  | 8 | 8           |  | BLDG #50             |
| LP & EC    | PEER REV | PART CLASSIFICATION    |   |             |  | FLOOR PLANS          |
| END TKN    |          | DRAWING CLASSIFICATION |   |             |  | SIZE: DRAWING NUMBER |
| APPROV     | DATE     | UNCLASSIFIED           |   |             |  | D1 FSD911260 12335   |
|            |          | Dwg TYPE BFP           |   |             |  | FROM BLDG #58        |
|            |          | STATUS MD-REL-12/12/91 |   |             |  | ORIGIN MD-BR3-V3.8   |

| ISS | DATE     | REVISION      | BY  | CHKD | DES | UPDR | APDR | IT  |
|-----|----------|---------------|-----|------|-----|------|------|-----|
| 8   | 12/12/91 | ASBUILT ISSUE | DCW |      |     |      |      | DVD |



**BLDG #888**  
**FIRST FLOOR**  
**BLDG CODE:3088**

|                                            |       |
|--------------------------------------------|-------|
| APPROVALS:                                 | DATE: |
| SAFETY COMMITTEE REVIEWED:                 |       |
| ____ MONC ____ TRUENOC ____ TEOC ____ CHOC |       |
| TECH. REV.                                 |       |
| DR. PER.                                   |       |
| TRUENOC                                    |       |
| TEOC                                       |       |
| CHOC                                       |       |

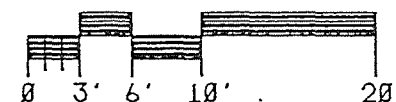
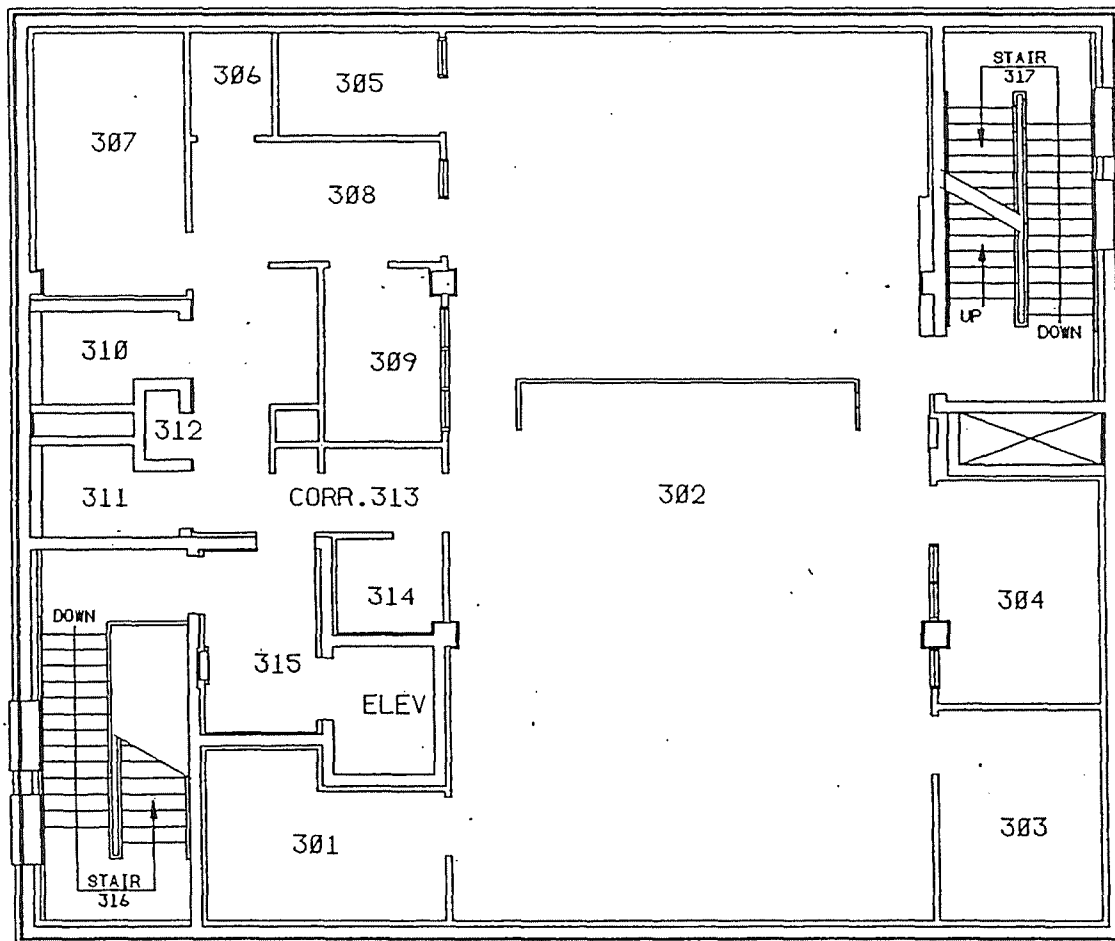
**NOT FOR PUBLIC DISSEMINATION**

MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION SUBJECT TO SECTION 148 OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED (42 USC 2168). APPROVAL BY THE DEPARTMENT OF ENERGY PRIOR TO RELEASE IS REQUIRED.

|                                                                   |         |      |    |      |     |      |      |    |
|-------------------------------------------------------------------|---------|------|----|------|-----|------|------|----|
| PROJECT NO.                                                       | PROJECT | DATE | BY | CHKD | DES | UPDR | APDR | IT |
|                                                                   |         |      |    |      |     |      |      |    |
| ISSUE                                                             | 1       | 2    | 3  | 4    | 5   | 6    | 7    | 8  |
| 1                                                                 | 2       | 3    | 4  | 5    | 6   | 7    | 8    | 9  |
| DRAWING CLASSIFICATION                                            |         |      |    |      |     |      |      |    |
| C FSC911290                                                       |         |      |    |      |     |      |      |    |
| JOB NUMBER 12335                                                  |         |      |    |      |     |      |      |    |
| DWG TYPE SFP PROJ BLDG #99 CHOC 14865 SCALE AS NOTED SHEET 1 OF 4 |         |      |    |      |     |      |      |    |
| STATUS MD-REL-12/12/91 ORIGIN MD-BR3-V3.8                         |         |      |    |      |     |      |      |    |

10.1-21

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BLDG 899  
THIRD FLOOR  
BLDG CODE:3099

|                                                                                                                                                                                                               |            |                       |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|------------|
| NOT FOR PUBLIC DISSEMINATION                                                                                                                                                                                  |            | DESIGN NUMBER         | JOB NUMBER |
| MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION SUBJECT TO SECTION 148 OF THE ATOMIC ENERGY ACT OF 1954, AS AMENDED (42 USC 2168). APPROVAL BY THE DEPARTMENT OF ENERGY PRIOR TO RELEASE IS REQUIRED. |            | FSC911290             | 12335      |
|                                                                                                                                                                                                               |            | DESIGN CLASSIFICATION |            |
|                                                                                                                                                                                                               |            | SECRET                |            |
| SIZE                                                                                                                                                                                                          | CASE 14865 | SCALE AS NOTED        |            |
| C                                                                                                                                                                                                             | BOOK 8     | SHEET 3               |            |
| STATUS MD-REL-12/12/91                                                                                                                                                                                        |            |                       |            |

10.1-23

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