1420

# ChemRisk/Shonka Research Associates, Inc., Document Request Form

(This section to be completed by subcontractor requesting document)

J. Lamb / Eng. Records

Requestor — Document Center (is requested to provide the following document)

Date of request 12/6/95 Expected receipt of document _____

Document number K1420-112M Date of document 5/5/73, R0; 5/5/71, R7.

Title and author (if document is unnumbered)

(This section to be completed by Document Center)

Date request received 12/11/95

Date submitted to ADC 12/12/95

Date submitted to HSA Coordinator 12/11/95

(This section to be completed by HSA Coordinator)

Date submitted to CICO 12/12/95

Date received from CICO 1/3/96

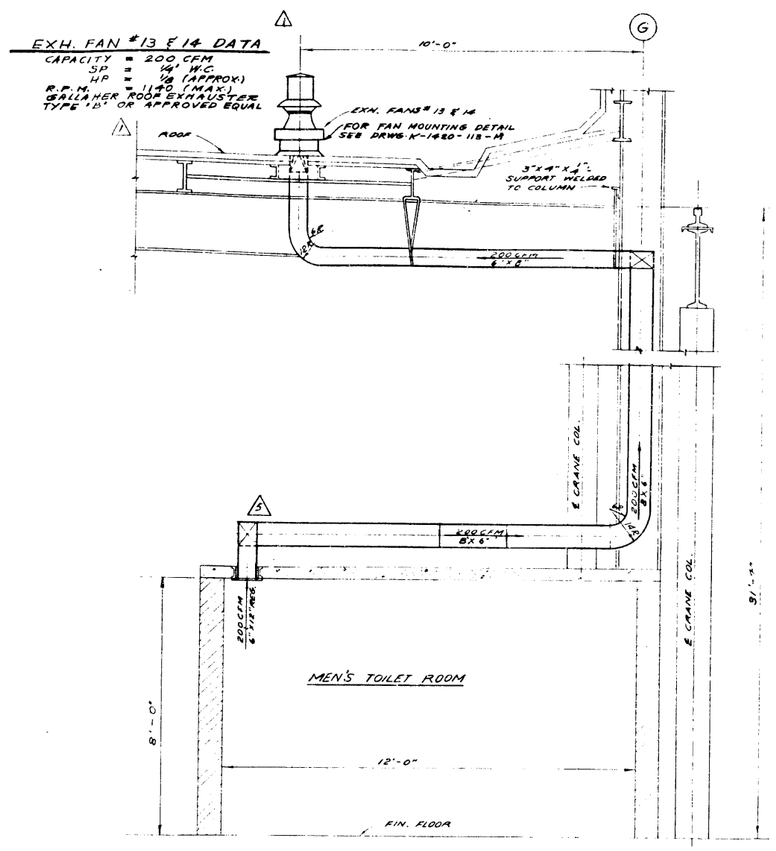
Date submitted to ChemRisk/Shonka and DOE 1/3/96

(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)

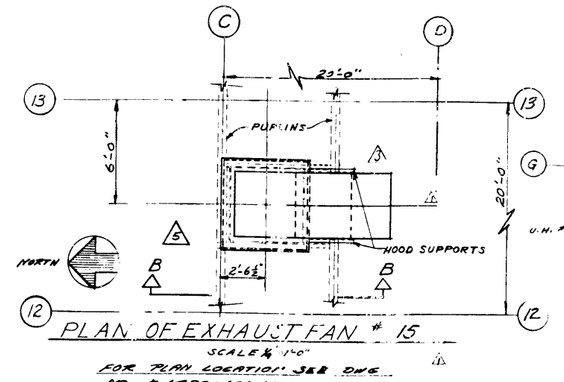
Date document received _____

Signature _____

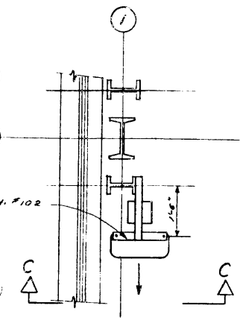
OFFICIAL USE ONLY




SECTION A-A
SCALE: 1/4"=1'-0"
TYPICAL FOR SECTION "A.-A."




PLAN OF EXHAUST FAN # 15
SCALE 1/4"=1'-0"
FOR PLAN LOCATION SEE DWG NO K-1420-101-M




PLAN
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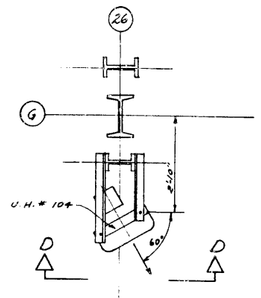


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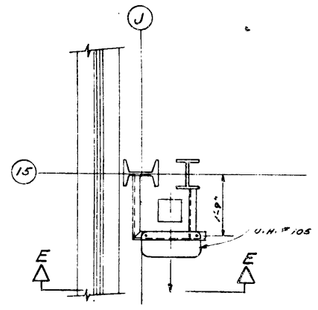


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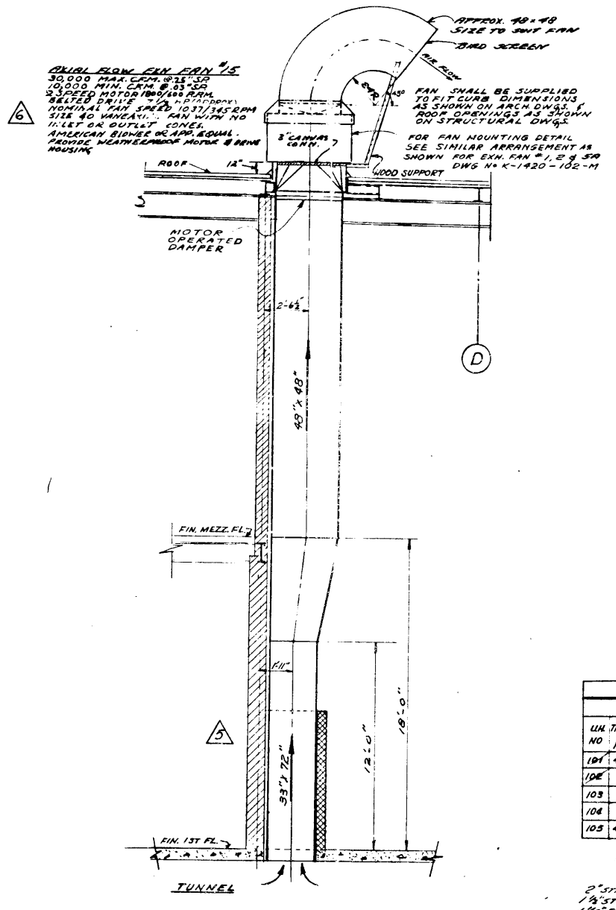
SCALE 1/2"=1'-0"




SECTION B-B
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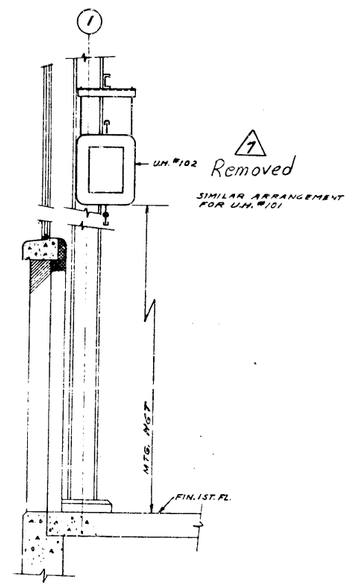
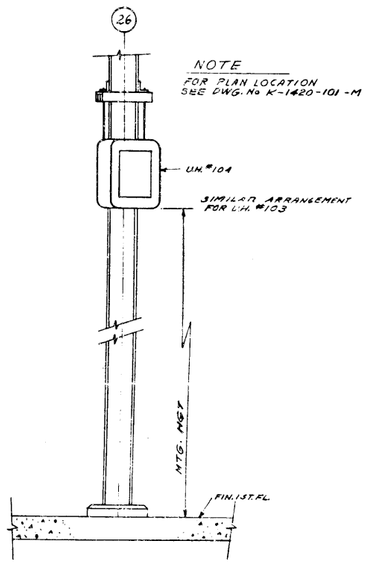
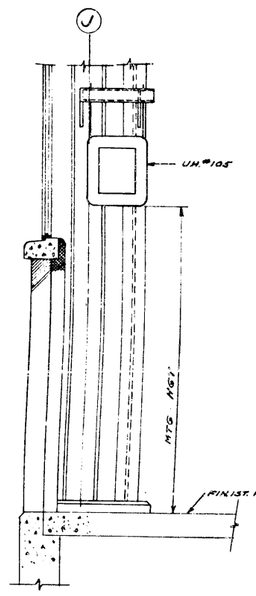



SECTION C-C
SCALE 1/2"=1'-0"




SECTION D-D
SCALE 1/2"=1'-0"



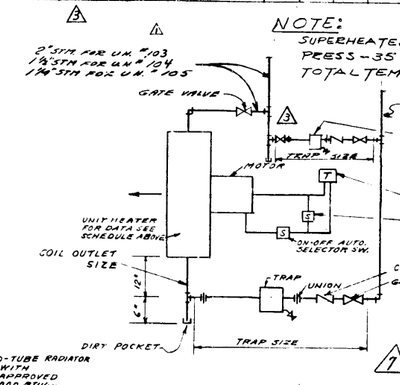

SECTION E-E
SCALE 1/2"=1'-0"

UNIT HEATER SCHEDULE

| UNIT HEATER | | | | | TRAP DATA | PRESSURE PSI | | POWER | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| U.H. TYPE NO. | MTG. HGT. FT. | TEMP. IN | APPROX CFM AIR HANDLE | CAPACITY BTU/HR. | COND. #/HR. | IN | OUT | APPROX MOTOR HP | MAX. FAN RPM. | |
| 101 | 40 FT | 15°-0" | 65°F | 3590 | 340,000 | 1110 | 35 | 20 | 1/4 | 1140 | TRANE TYPE "V" OR APPROVED EQUAL |
| 102 | | 13'-0" | | 1650 | 150,000 | 490 | | 15 | 1/8 | 1140 | |
| 103 | | 15'-0" | | 3590 | 340,000 | 1130 | | 20 | 1/4 | 1140 | |
| 104 | | 14'-0" | | 2370 | 205,000 | 650 | | 20 | 1/4 | 1140 | |
| 105 | 40 FT | 9'-0" | 65°F | 610 | 80,000 | 260 | 35 | 15 | 1/30 | 1300 | |

NOTE:
SUPERHEATED STEAM
PRESS - 35 PSI
TOTAL TEMP - 444°F

2" STM FOR U.H. #103
1 1/2" STM FOR U.H. #104
1 1/4" STM FOR U.H. #105



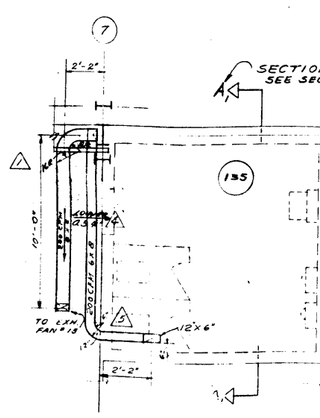

Traps
UH-103 3/4" Armstrong 882-3/16
UH-104,105 1/2" Armstrong 880-78

TYPICAL PIPING CONNECTIONS & CONTROL DIAGRAM FOR UNIT HEATERS #103-105
NO SCALE

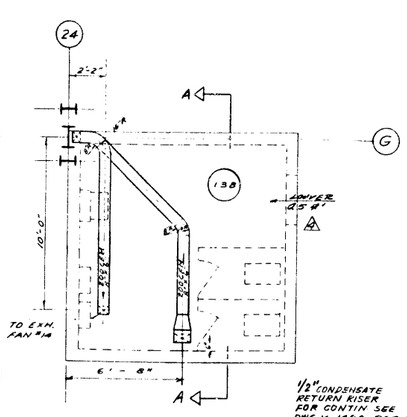
NOTE
MOTORS LOCATED 12'-0" OR BELOW SHALL BE TOTALLY ENCLOSED.
OTHER ELECTRICAL EQUIPMENT LOCATED 12'-0" OR BELOW SHALL BE WATER TIGHT CONSTRUCTION.

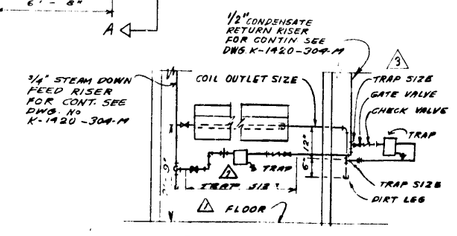
This document has been approved for release to the public by:

Technical Information Officer
Oak Ridge K-25 Site
Date




PLAN - MEN'S TOILETS
SCALE: 1/4"=1'-0"
FOR PLAN LOCATION SEE DRWG. K-1420-101-M




SECTION "F-F"
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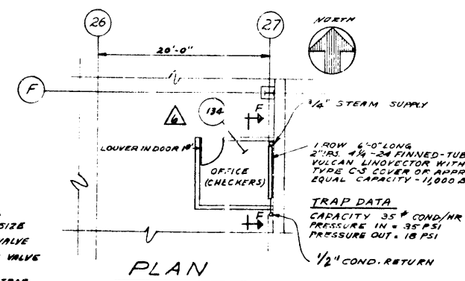


PLAN
SCALE 1/4"=1'-0"
FOR LOCATION ON MASTER PLAN SEE DWG. No K-1420-101-M

| REV. NO. | DATE | ISSUED FOR | BY | APP. | DATE |
|---|---|---|---|---|---|
| 7 | 5-5-71 | Revised Condensate Per ESO M37407 | RBT | | |
| 6 | 4-16-63 | BULLETIN 10-25-K-1410 | JAK | NR | |
| 5 | 2-20-63 | BULLETIN 1-25-K-1420 | JAK | NR | |
| 4 | 6-3-59 | ADDED NOTES | CW | NC | |
| 3 | 5-21-59 | ADDED NOTES & CHANGED DETAIL | CW | [illegible] | |
| 2 | 1-11-55 | CERTIFIED FOR CONSTRUCTION | JAK | [illegible] | |
| 1 | 5-11-53 | ADDED NOTES, CHANGED UNIT LOAD FOR INDEX & ADD. DETAIL | CW | NR | |
| | 4-15-53 | APPROVAL | JAK | | |

UNITED STATES
ATOMIC ENERGY COMMISSION

SMITH, HINCHMAN & GRYLLS, INC.
ARCHITECTS & ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE
HEATING & VENTILATING DETAILS - AREAS "A", "C" & "M" EXHAUST SYSTEMS

DRAWING APPROVED—DATE: P. J. Kotchhut 4-16-53 — DIRECTOR OF CONSTRUCTION
DRAWING APPROVED—DATE: R. A. WALKER 5-6-53 — CHIEF ENGINEER, ENGINEERING DIV.
DRAWING APPROVED—DATE: L. H. JACKSON 5-4-53 — A.E.C. ENGINEER
DRAWN: J. KUNKEL
DATE: 4-14-53
CHECKED: C. WREN
DATE: 5-1-53
SCALE: 1/4"=1'-0"
PROJECT: K-PLANT
BUILDING: DECONTAMINATION
DRAWING NUMBER: K-1420-112-M
8890

[redacted]

OFFICIAL USE ONLY

| FNG. | /NDR CODE | TYPE | SUBJECT | FL | BLDG/LOC | FLR |
|---|---|---|---|---|---|---|
| SYB | 4 7 5 H | | | 11 | 420 | 0 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | | | | | | | | | | | | |

HTG & VNT ARA A C & M EXHS SBS
CODE TITLE

#2426

This document has been approved for release to the public by:

Technical Information Officer
Oak Ridge K-25 Site
Date

1420

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(This section to be completed by subcontractor requesting document)

J. Lamb / Eng. Records

Requestor — Document Center (is requested to provide the following document)

Date of request 12/6/95 Expected receipt of document _____

Document number K-1420-112-M Date of document Rev. Ø: 5/4/53; Rev. 4: 7/23/53

Title and author (if document is unnumbered)

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Signature _____

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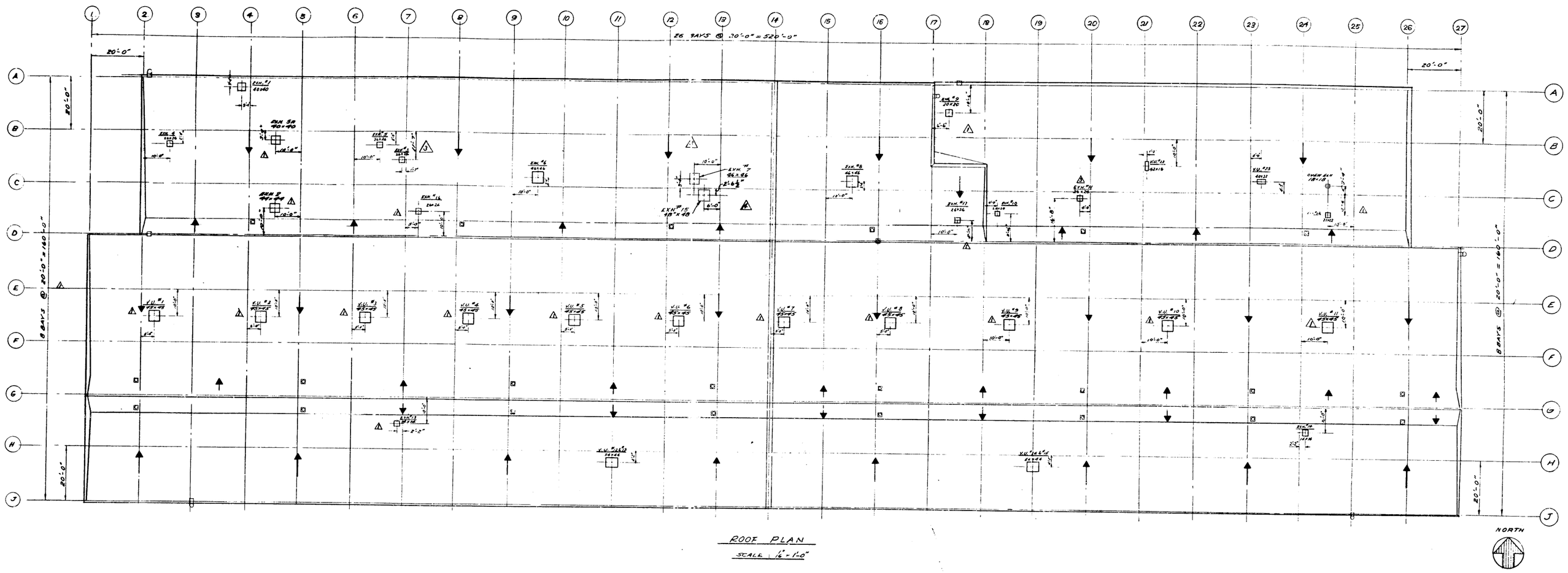
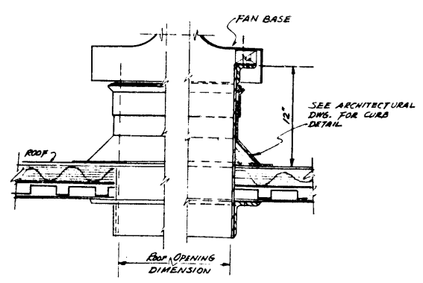
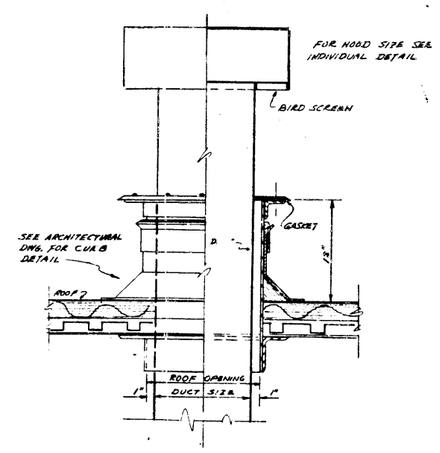



ROOF PLAN
SCALE: 1/8"-1'-0"




TYPICAL DETAIL
EXHAUST FAN CURB MOUNTING
NO SCALE




TYPICAL DETAIL
DUCT THROUGH ROOF & HOOD MOUNTING
NO SCALE

This document has been approved for release to the public by:

Technical Information Officer Date
Oak Ridge K-25 Site

| PRG | VNDR CODE | TYPE | SUBJECT | PLT | RLDG/LOC | FLH |
|---|---|---|---|---|---|---|
| 3 | Y2467 | PH | | 11420 | | 0 |

HTG VNTN-ROOF OPNG
CODE TITLE

[redacted]

| REV. NO. | DATE | ISSUED FOR | BY | APP. DATE |
|---|---|---|---|---|
| 4 | 7-23-60 | BULLETIN 1-25-K-1420 | JAN | N.F. |
| 3 | 5-29-59 | DIMENSIONS CHANGED | KW | EXAMINED 5-29-60 |
| 2 | 9/15/53 | CERTIFIED FOR CONSTRUCTION | JA | |
| 1 | 5/14/53 | ADDED NOTES & REVISED ROOF OPENINGS | KW | N.F. |
| | 4/15/53 | APPROVAL | JN | |

UNITED STATES
ATOMIC ENERGY COMMISSION

SMITH, HINCHMAN & GRYLLS, INC.
ARCHITECTS & ENGINEERS
DETROIT 26, MICHIGAN

DRAWING TITLE

HEATING & VENTILATING
PLAN - ROOF OPENINGS

| DRAWING APPROVED—DATE | DRAWING APPROVED—DATE | DRAWING APPROVED—DATE |
|---|---|---|
| P. J. Kirkhart 4-16-53 ARCHITECT-ENGINEER | R. A. WALKER 5-4-53 ALBERTA SUDDUTH CHIEF, STD. | L. H. JACKSON 5-4-53 A. E. C. CONSULTANT |
| DRAWN J. LAU | DATE 4/13/53 | DESIGNED C. WREN |
| DATE | CHECKED | DATE |
| DR. CHECKED Medes | | |
| PROJECT K-PLANT | BUILDING DECONTAMINATION | DRAWING NUMBER K-1420-113-M |

8890

[redacted]

#3420