

KENNECOTT COPPER CORPORATION, LEACHING PLANT
Wrangell-St. Elias National Park & Preserve
On Copper River & Northwestern Railroad
Kennicott
Valdez-Cordova Census Area
Alaska

HAER AK-1-E
AK-1-E

PHOTOGRAPHS

REDUCED COPIES OF MEASURED DRAWINGS

FIELD RECORDS

HISTORIC AMERICAN ENGINEERING RECORD
National Park Service
U.S. Department of the Interior
1849 C Street NW
Washington, DC 20240-0001

ADDENDUM TO:
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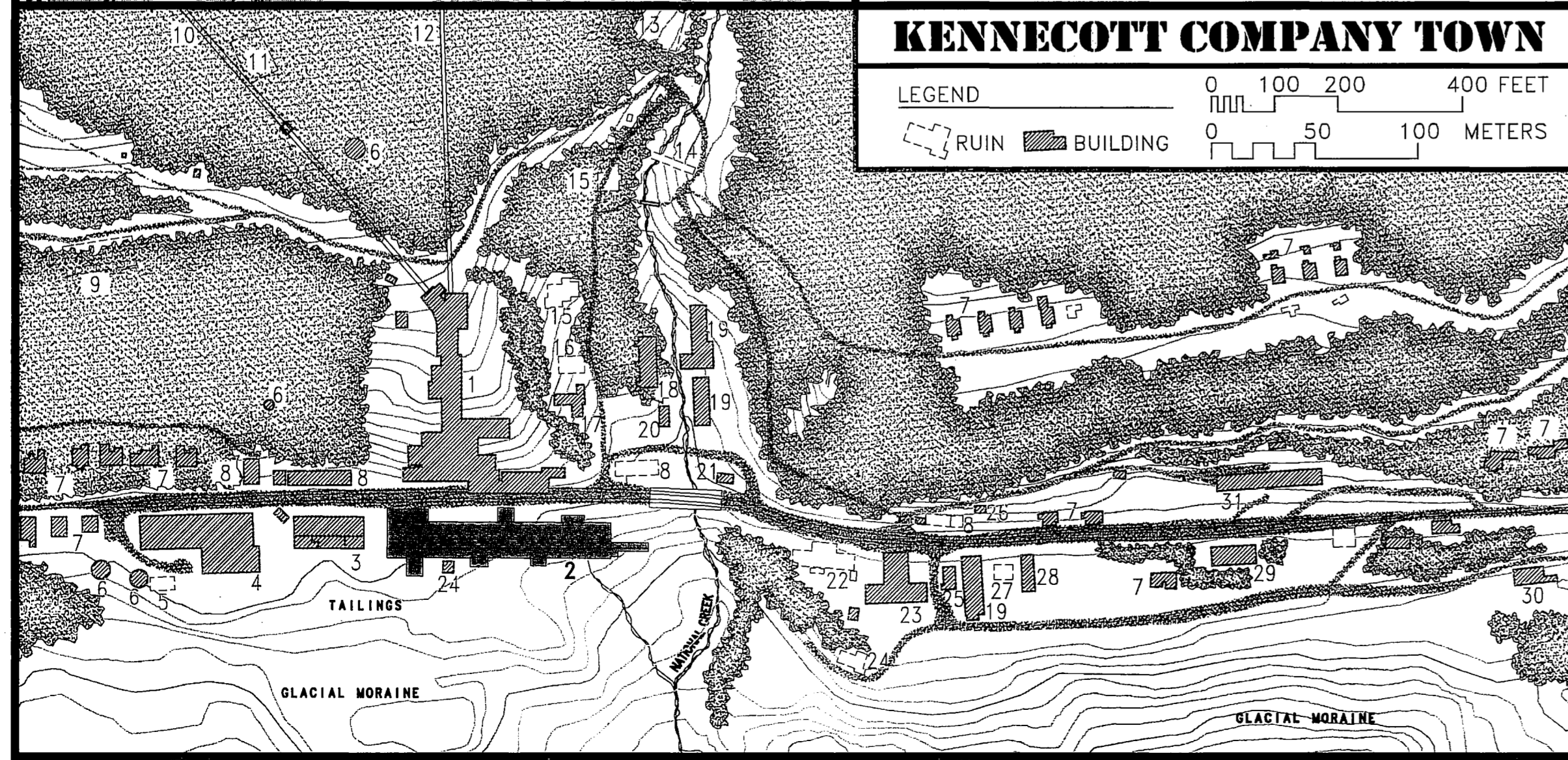
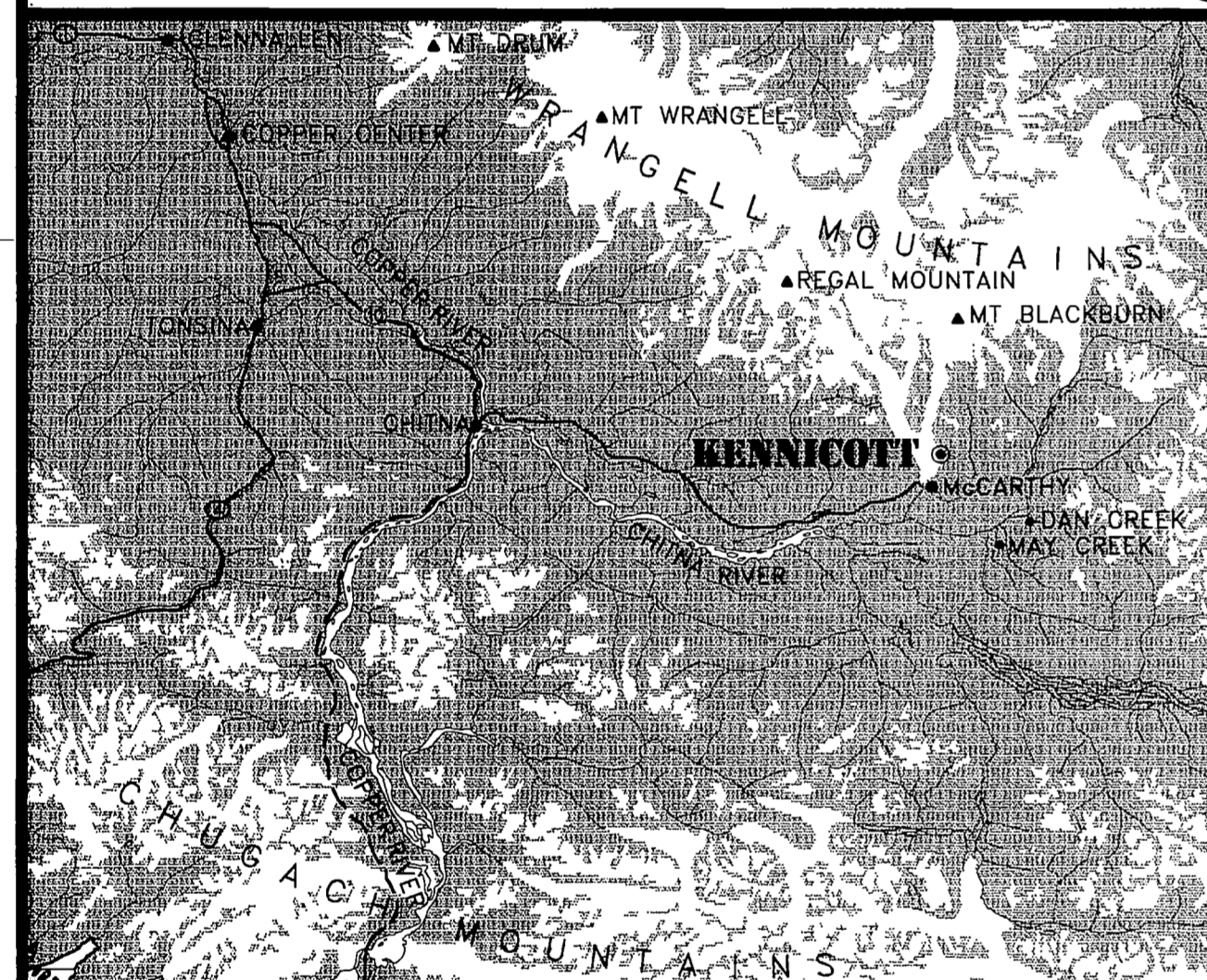
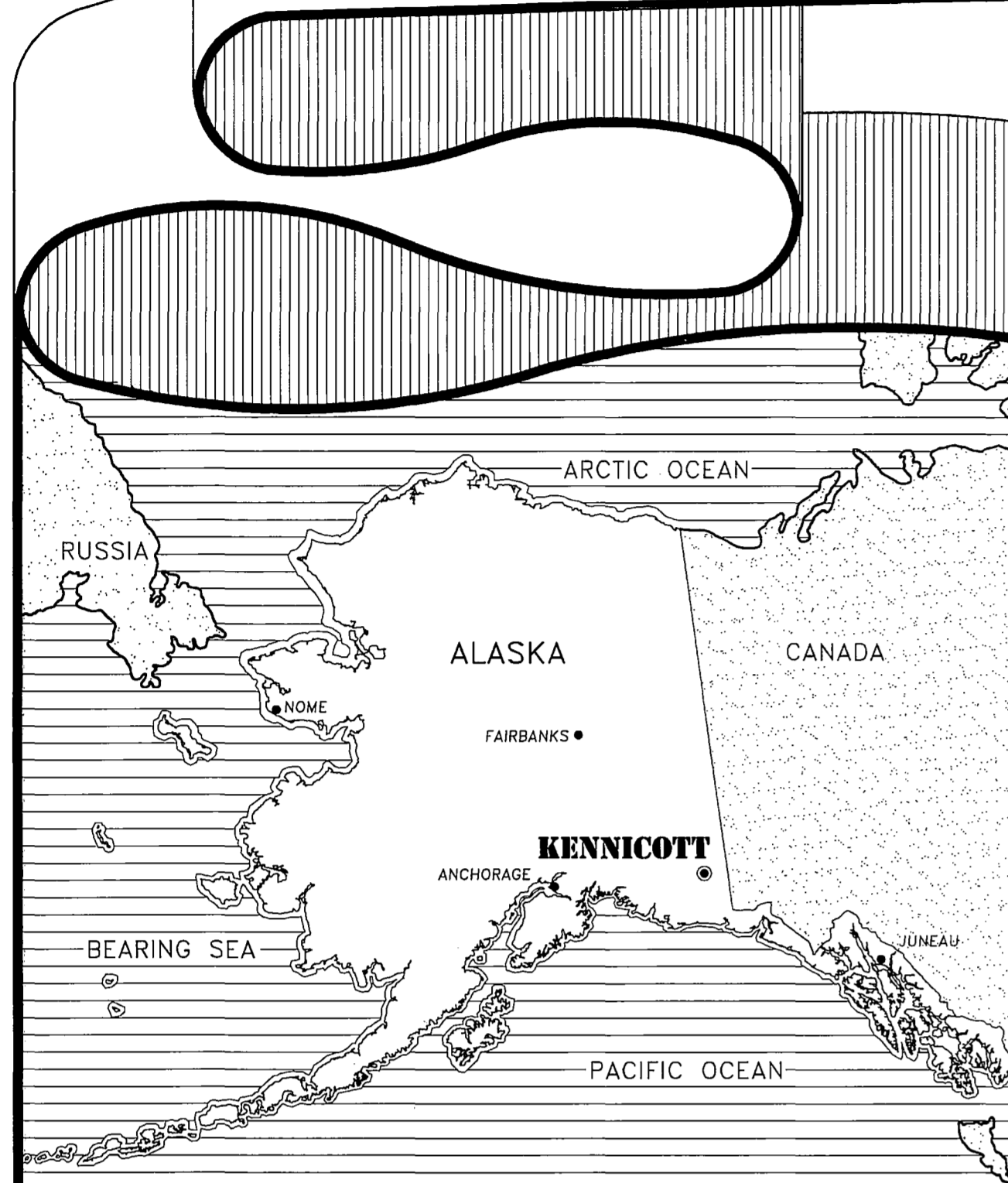
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Mark Schara, photographer, June 1999

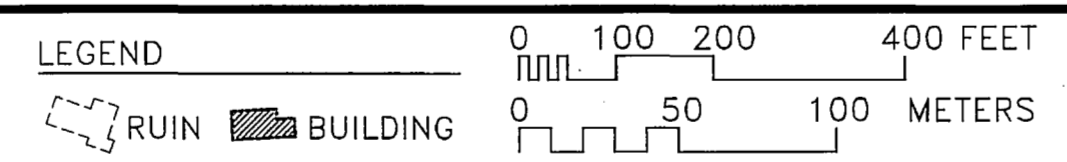
AK-1-E-1	View looking northwest at south end of east elevation
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AK-1-E-3	East elevation of laboratory/office wing
AK-1-E-4	View looking northwest at south gable end of central wing
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AK-1-E-15	South end of west elevation

LEACHING PLANT

KENNICOTT, ALASKA



KENNICOTT COMPANY TOWN



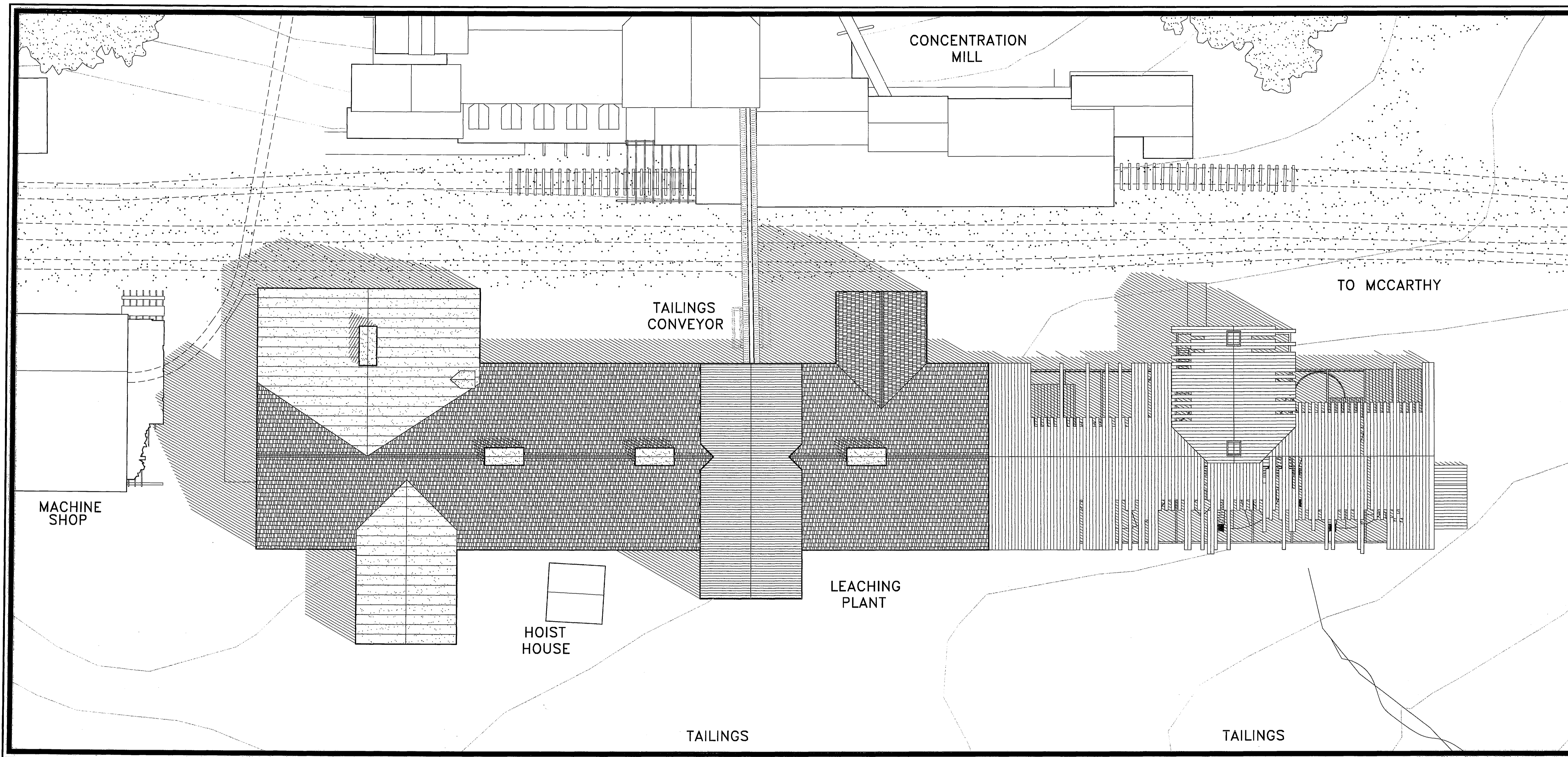
- 1 CONCENTRATION MILL
- 2 LEACHING PLANT
- 3 MACHINE SHOP
- 4 POWER PLANT
- 5 OIL HOUSE
- 6 WATER OR OIL TANK
- 7 COTTAGES
- 8 STORAGE OR WAREHOUSE
- 9 TENNIS COURT
- 10 TRAM TO GLACIER & JUMBO MINE
- 11 WATER STORAGE POND
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- 13 COMMUNITY GARDEN
- 14 NATIONAL CREEK DAM
- 15 MANAGER'S HOUSE
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- 30 DAIRY BARN
- 31 OLD APARTMENT HOUSE SITE



IN 1998, THE NATIONAL PARK SERVICE BEGAN TO DOCUMENT THE HISTORIC BUILDINGS OF THE KENNICOTT NATIONAL HISTORIC LANDMARK TO THE STANDARDS OF THE HISTORIC AMERICAN BUILDING SURVEY / HISTORIC AMERICAN ENGINEERING RECORD (HABS/HAER). THE PROJECT WAS EXECUTED UNDER THE PROGRAM DIRECTION OF BLAINE CLIVER, CHIEF OF HABS/HAER; AND ROBERT L. ARNBERGER, ALASKA REGIONAL DIRECTOR, NATIONAL PARK SERVICE. DOCUMENTATION WAS CARRIED OUT DURING THE SUMMERS OF 1999 AND 2000 UNDER THE GENERAL DIRECTION OF STEVEN M. PETERSON, SENIOR HISTORICAL ARCHITECT; CHRIS HOUSTON AND LAURA HOUSTON, HISTORICAL ARCHITECTURAL INTERNS WITH THE ALASKA SUPPORT OFFICE; MARK SCHARA, NAOMI HERNANDEZ AND HOLLY LOTT, HABS ARCHITECTS; AND JET LOWE, HAER PHOTOGRAPHER.

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ROOF PLAN

SCALE: 1/16" = 1'-0"

BUILDING HISTORY

KENNICOTT ORE WAS SOME OF THE RICHEST IN THE WORLD. EVEN SO, MORE THAN 40% OF THE COPPER PRODUCED AT KENNICOTT CAME FROM LOW-GRADE, COMPLEX ORES SUCH AS AZURITE AND MALACHITE. THESE BEAUTIFUL BLUE AND GREEN MINERALS HAVE A LOW SPECIFIC GRAVITY, AND PASSED THROUGH THE GRAVITY CONCENTRATOR WITHOUT PRECIPITATING.

EXPERIMENTS DESIGNED TO RECOVER THIS ADDITIONAL COPPER BEGAN IN 1913, AT THE FEDERAL LEAD COMPANY'S FACILITIES IN MISSOURI. ACID LEACHING

WAS NOT PRACTICAL DUE TO THE LIMESTONE MATRIX IN THE ORE. AMMONIA LEACHING WAS CHOSEN OVER FLOTATION SINCE IT PRODUCED A RICHER CONCENTRATE THAT WAS MORE ECONOMICAL TO SHIP.

A TEST PLANT WAS ERECTED AT KENNICOTT AND THE LAST FEW PROBLEMS ASSOCIATED WITH THE TECHNIQUE WERE RESOLVED. AMMONIA WAS USED TO DISSOLVE THE COPPER FROM THE OXIDE ORES. THE COPPER RICH SOLUTION WAS THEN DISTILLED TO BOIL OFF THE AMMONIA AND

PRECIPITATE THE COPPER. THE AMMONIA WAS RECOVERED AND REUSED. THE COPPER CONCENTRATE WAS SACKED AND SHIPPED TO CORDOVA ON THE COPPER RIVER & NORTHWESTERN RAILWAY. WASTE ROCK WAS TAKEN FROM THE LEACHING TANKS AND USED TO LEVEL GROUND FOR ADDITIONAL CONSTRUCTION SOUTH OF NATIONAL CREEK.

THE ORIGINAL LEACHING PLANT (NOW THE SOUTH END OF THE BUILDING) WAS CONSTRUCTED IN 1915 AND WENT INTO PRODUCTION THE NEXT YEAR. THE FIRST FOUR LEACHING TANKS COULD PROCESS

300 TONS OF ORE PER DAY. WITHIN A YEAR THE NUMBER OF LEACHING TANKS WAS DOUBLED WITH ADDITIONS TO THE NORTH END OF THE PLANT. THE CAPACITY INCREASED FIRST TO 600 TONS PER DAY, AND SUBSEQUENTLY TO 800 TONS PER DAY.

LEACHING COULD NOT RECOVER ALL OF THE COPPER. IN 1923, A SMALL FLOTATION PLANT WAS INSTALLED IN THE NORTH END OF THE LEACHING PLANT TO PROCESS THE SMALL ORE PARTICLES KNOWN AS SLIMES AND SANDS. THE FLOTATION PLANT ADDITION

INCLUDED THE CONSTRUCTION OF THE LOADING SHED AT THE NORTH END OF THE LEACHING PLANT BUILDING.

LEACHING OPERATIONS CONTINUED UNTIL THE MINE AND MILL CLOSED TEMPORARILY DURING 1933-34. WHEN OPERATIONS RESUMED IN 1935, OPERATIONS IN THE PLANT WERE RESTRICTED TO THE FLOTATION PLANT. THE LARGE TANKS AND MANY OF THE SMALLER ONES WERE GIVEN OVER TO FUEL OIL STORAGE UNTIL THE MINES AND MILL PERMANENTLY CLOSED IN 1938.

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WRANGELL • ST. ELIAS NATIONAL PARK AND PRESERVE

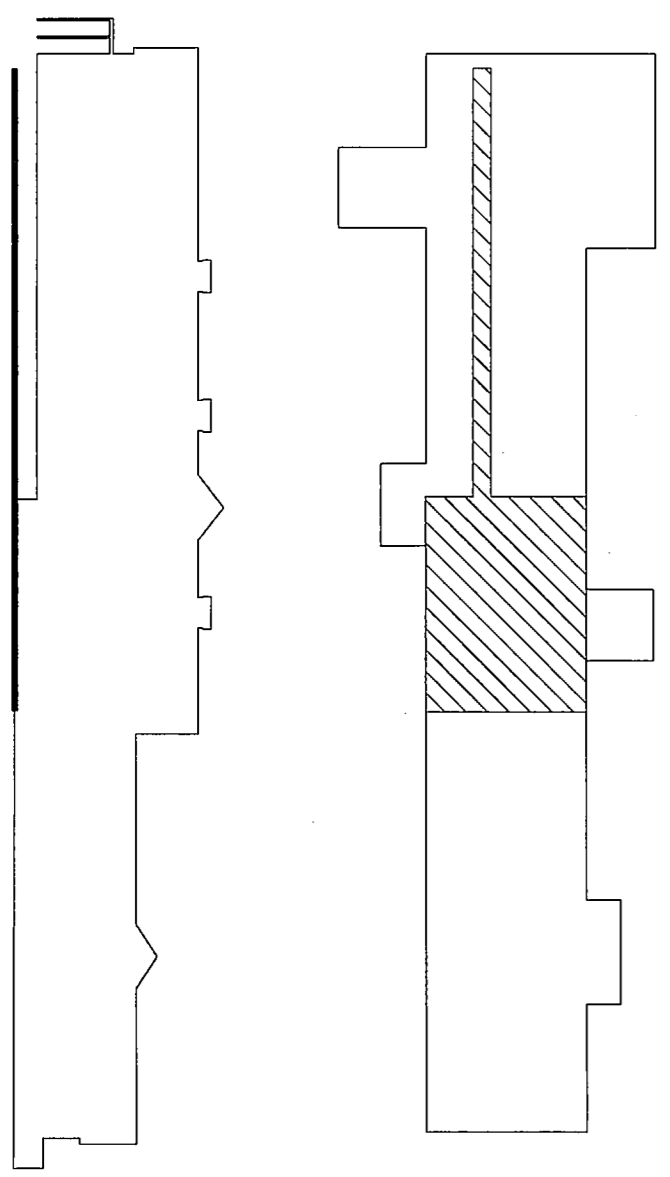
ALASKA

AK-1-E

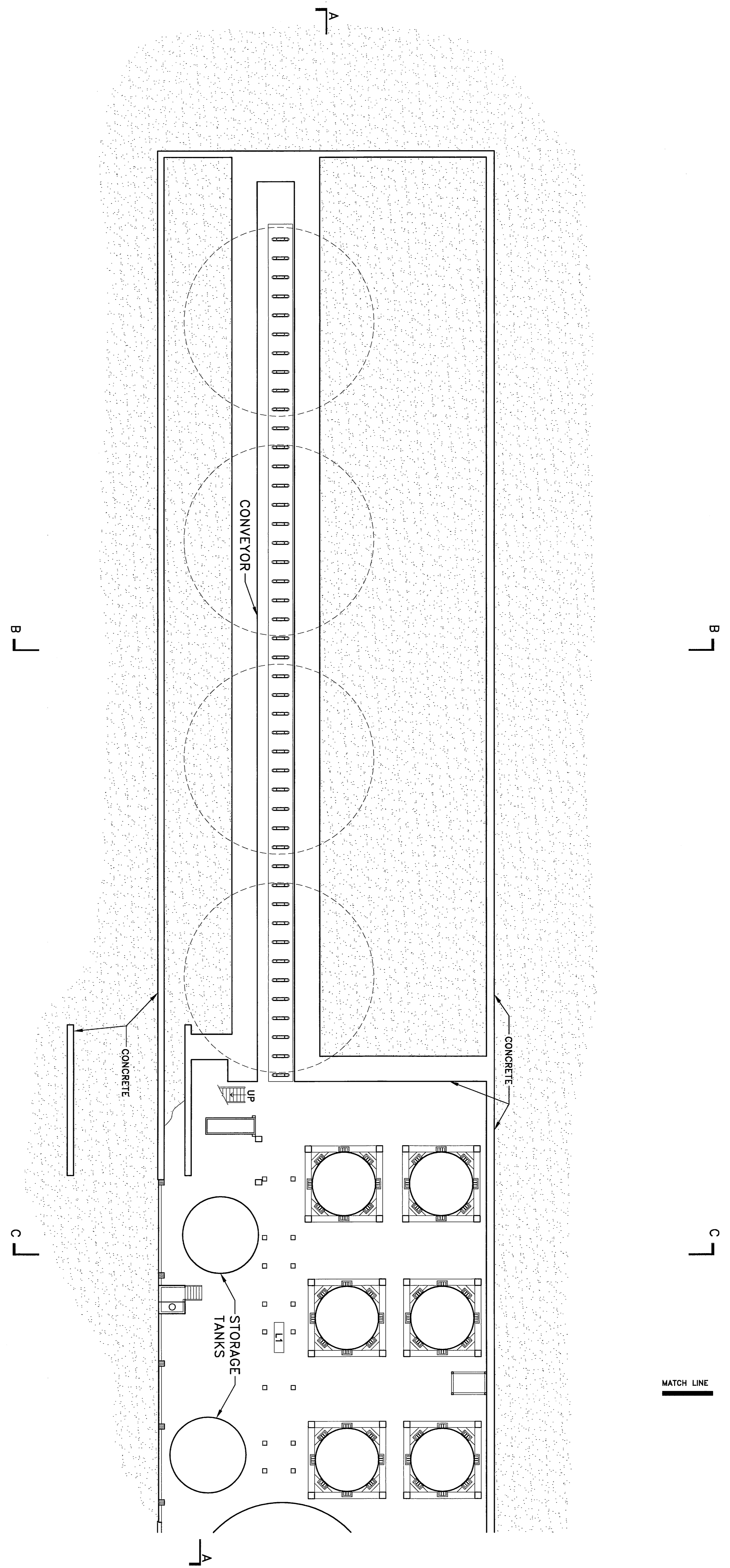
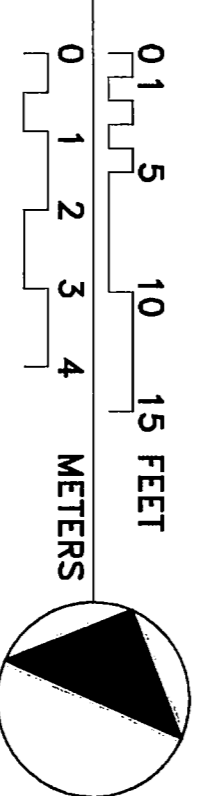
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LEVEL ONE - NORTH
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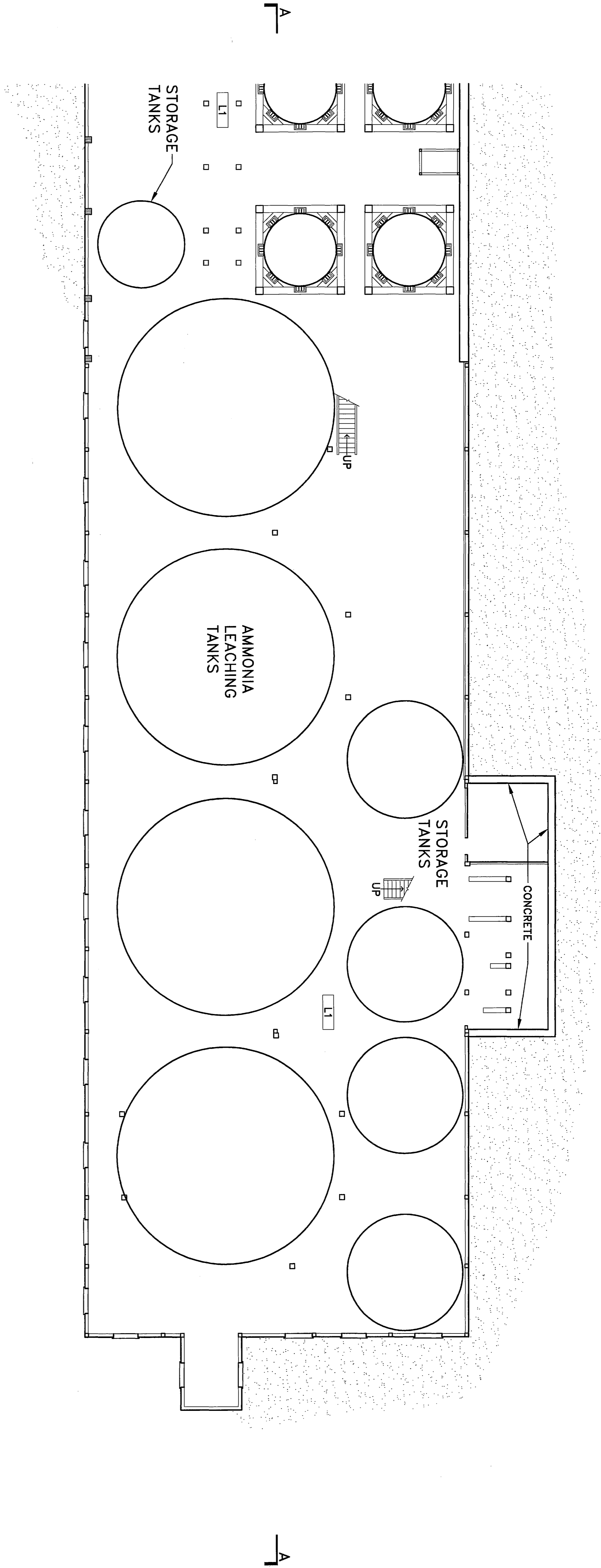
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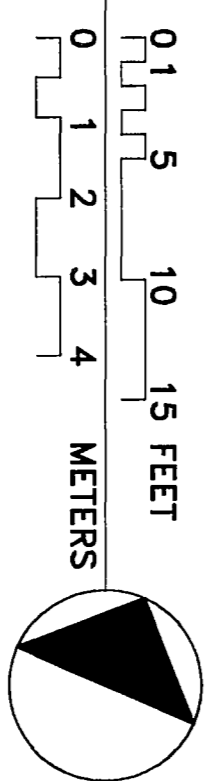
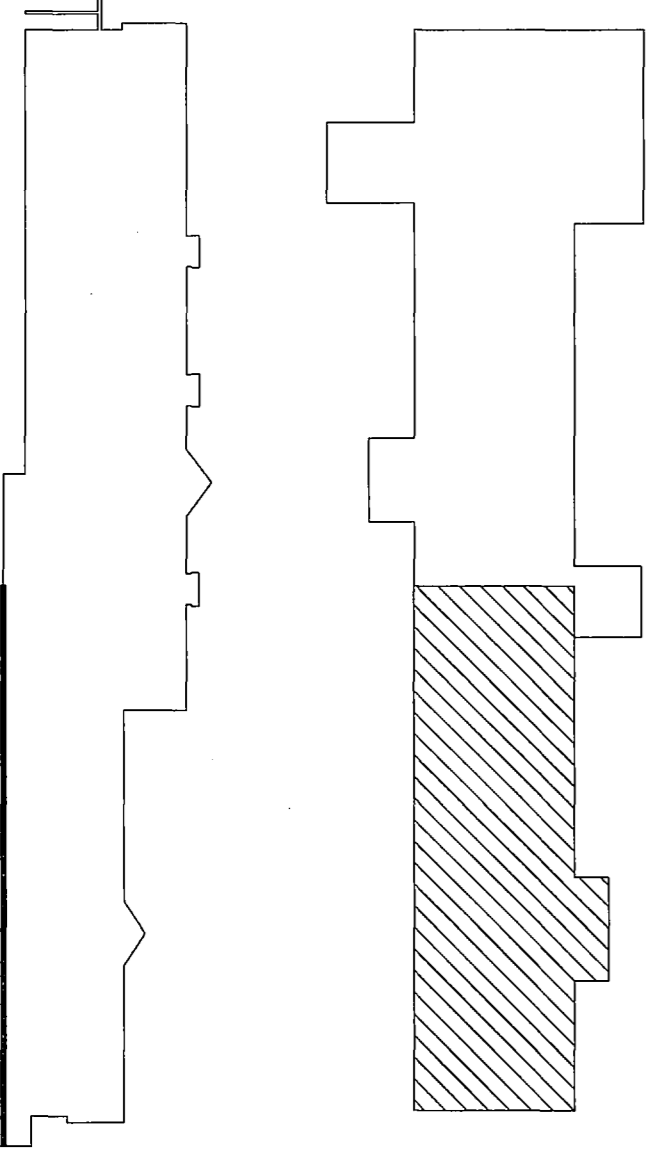
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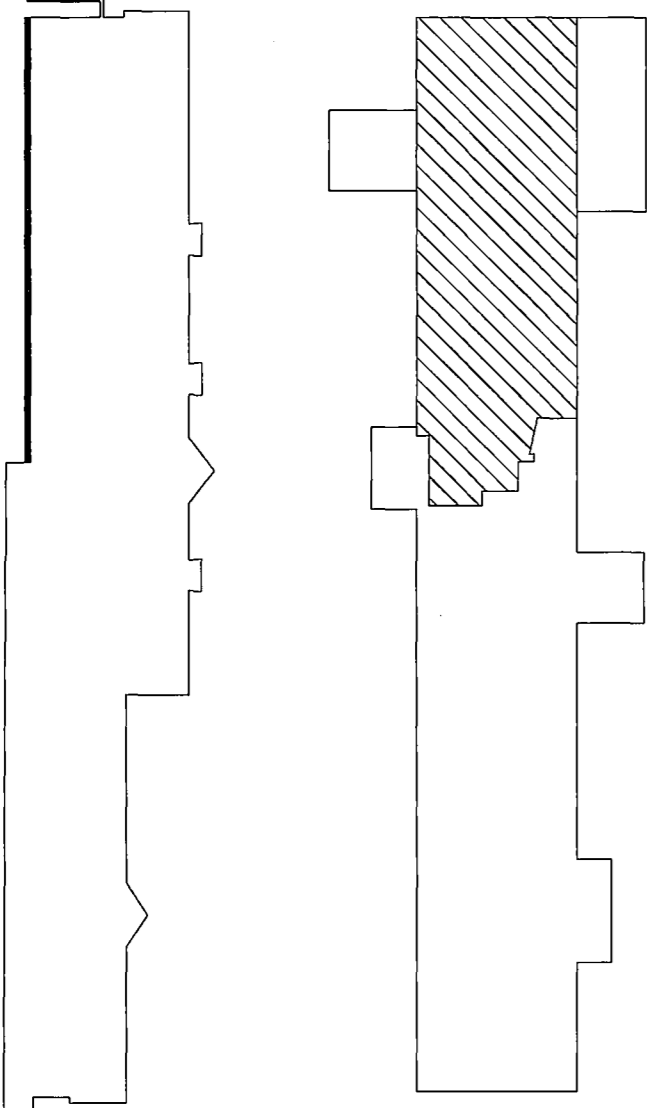
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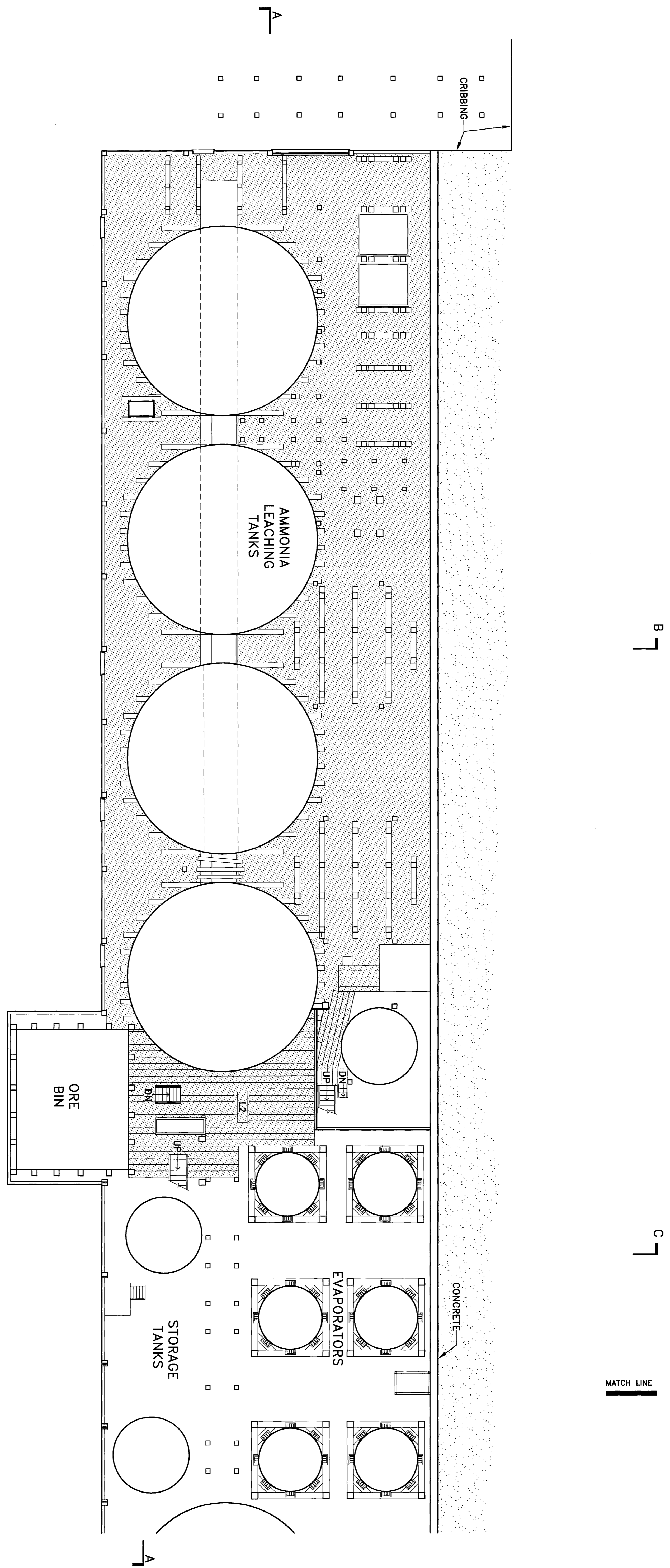
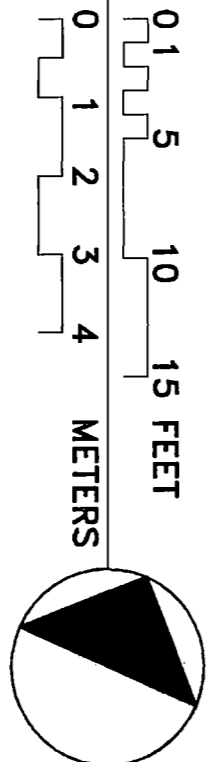
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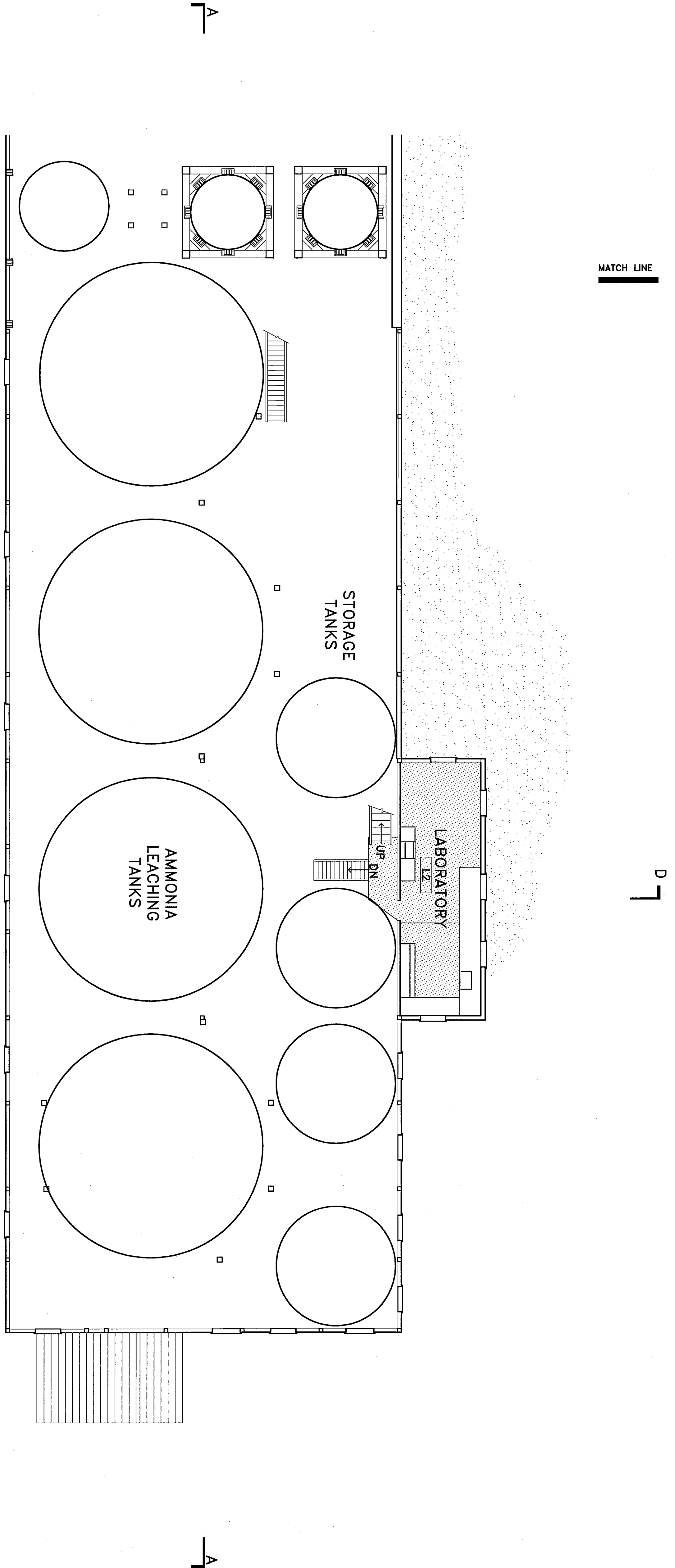
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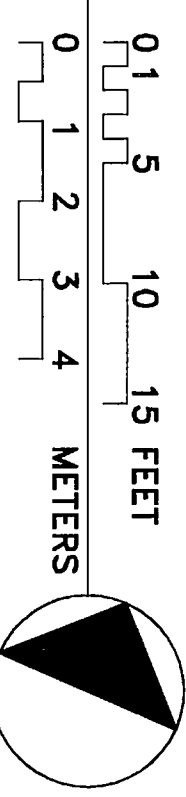
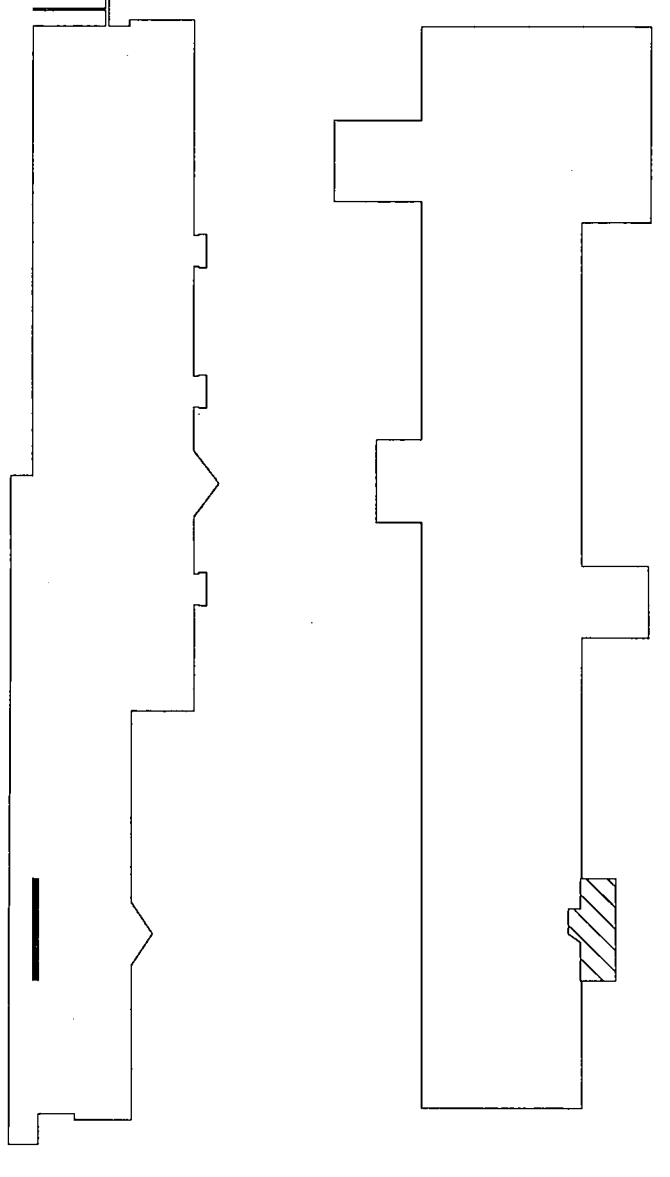
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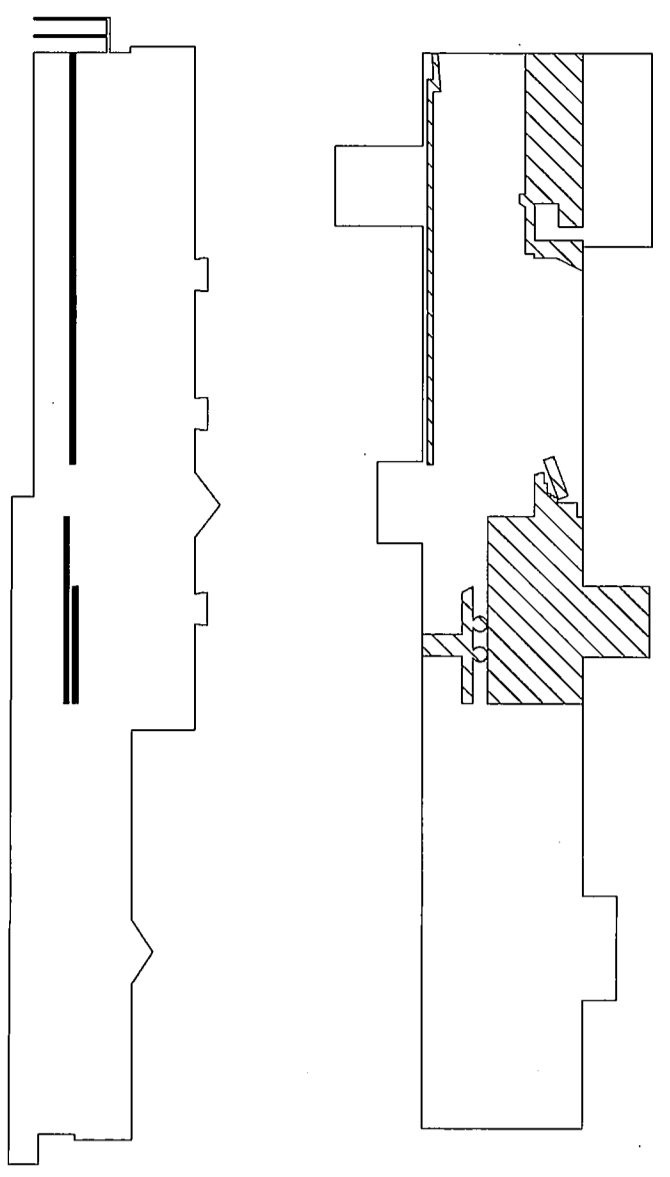
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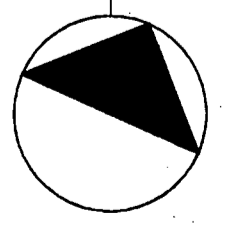
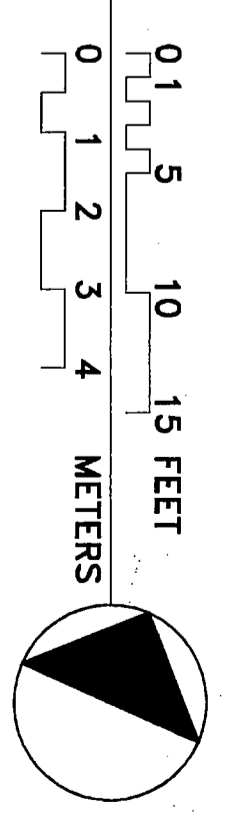
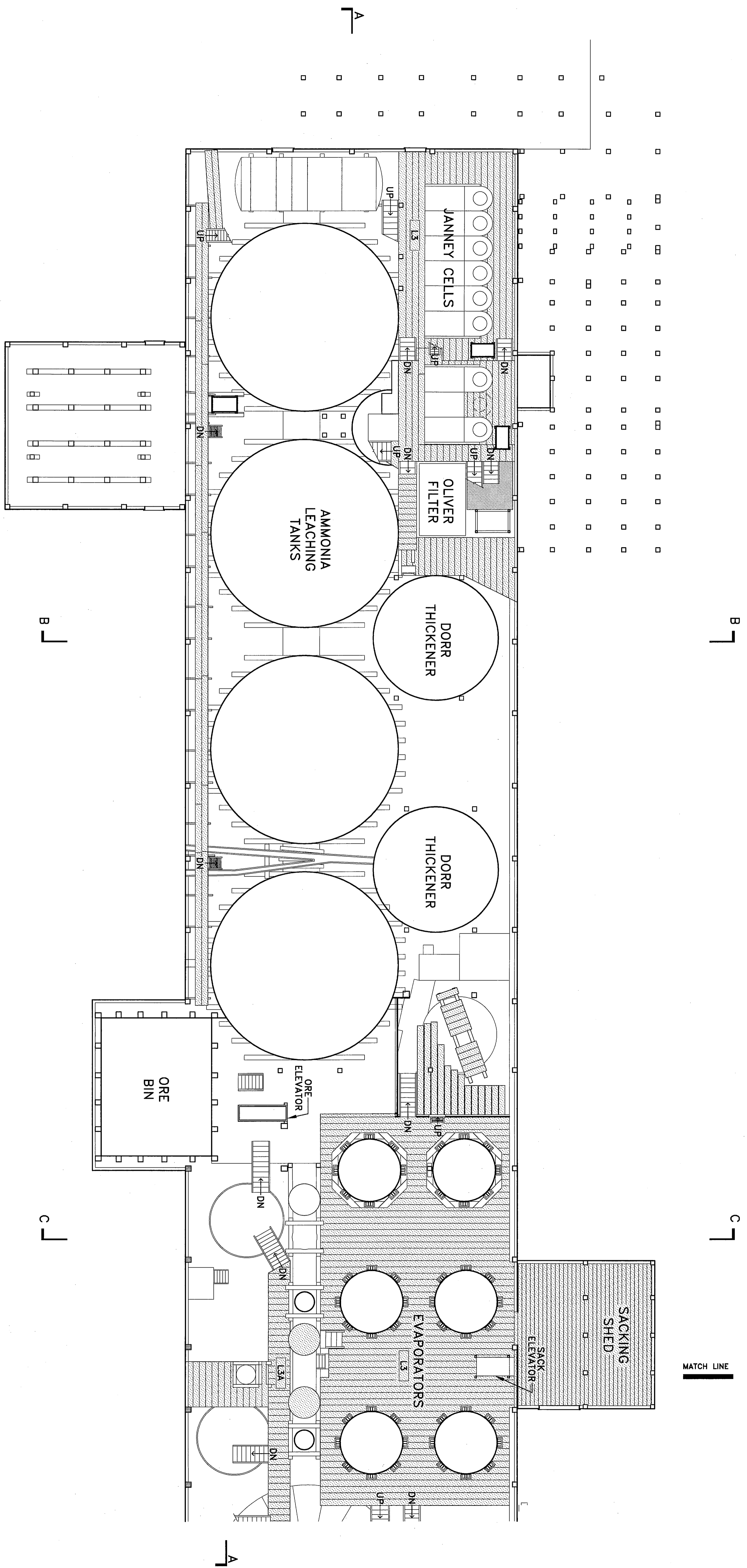
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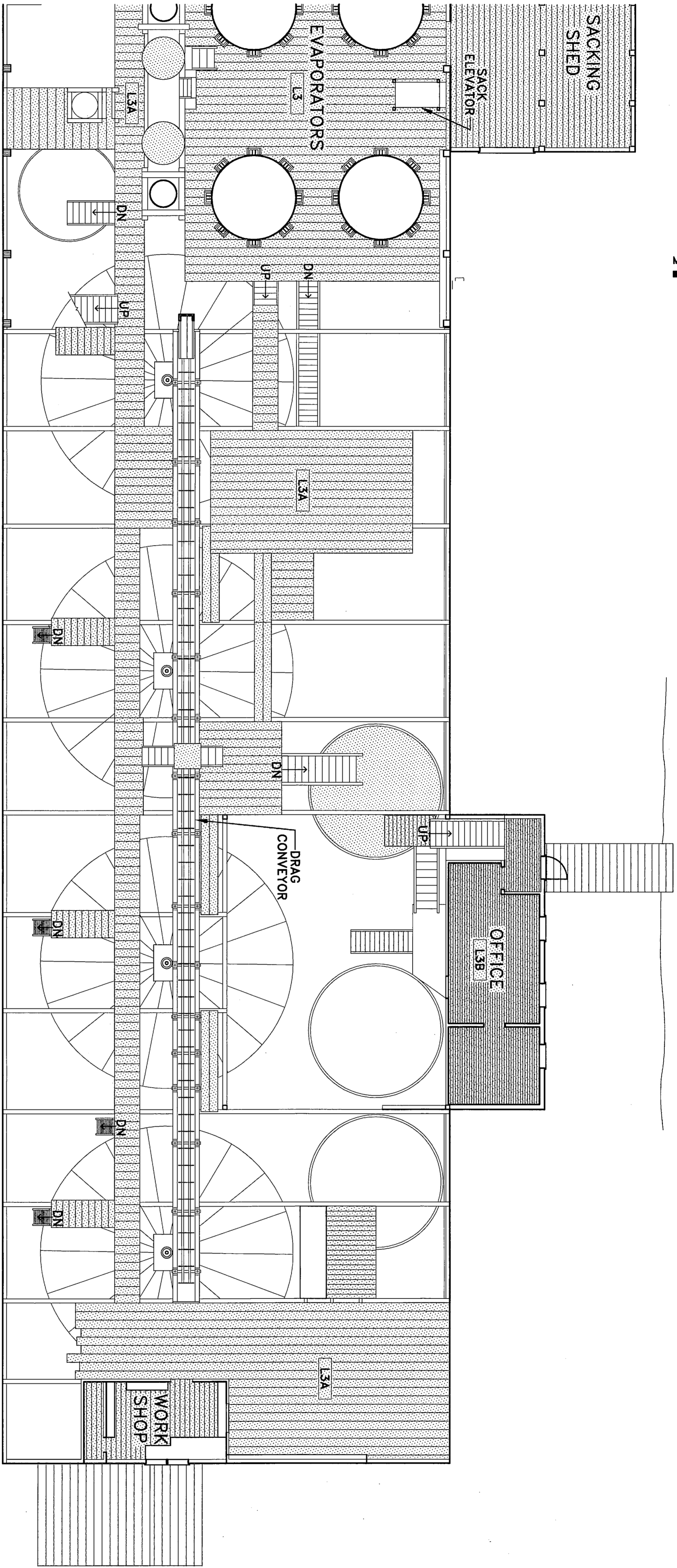
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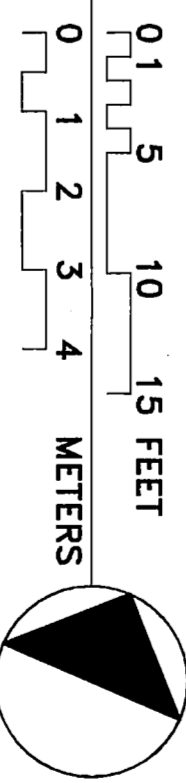
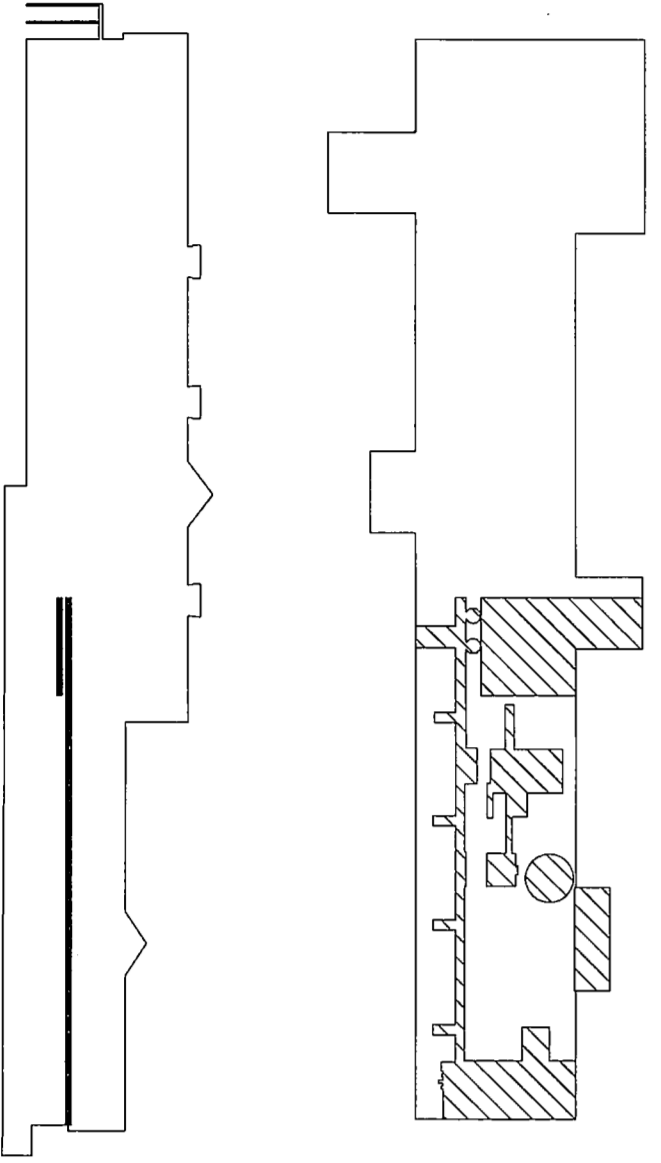
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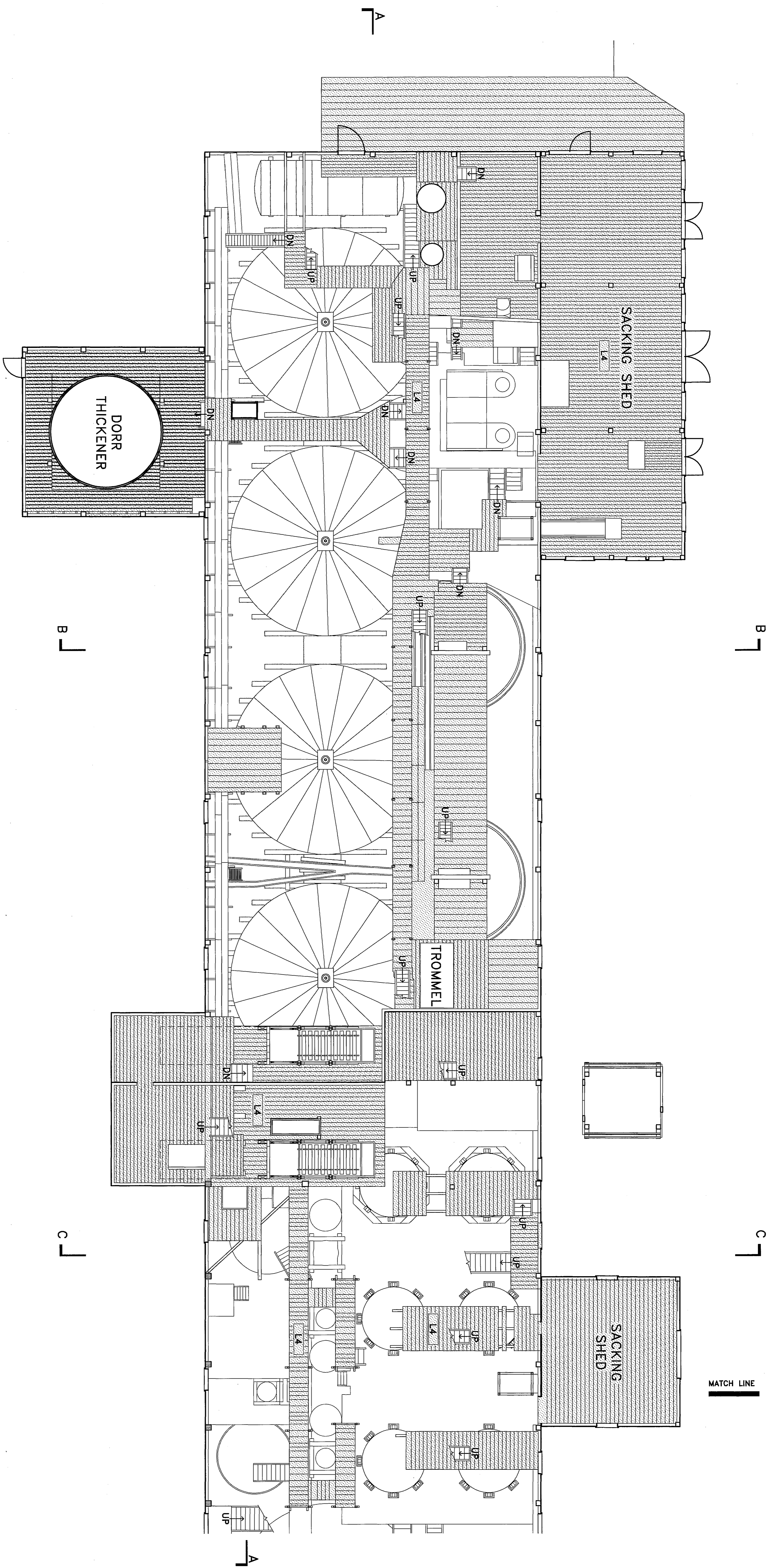
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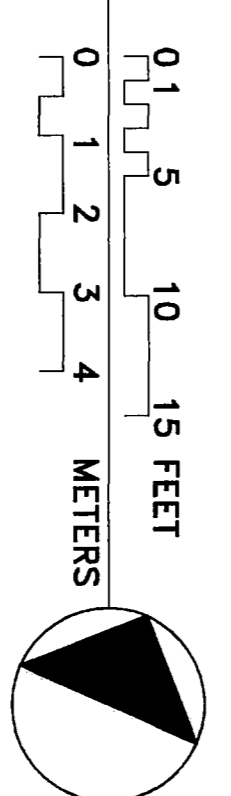
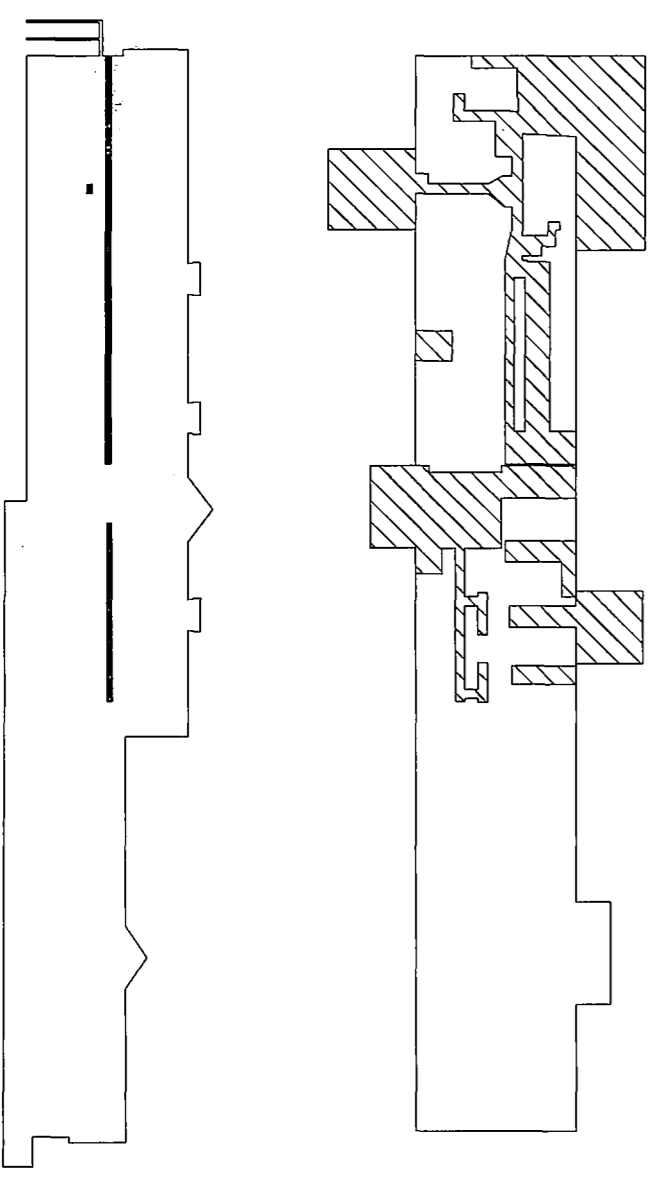
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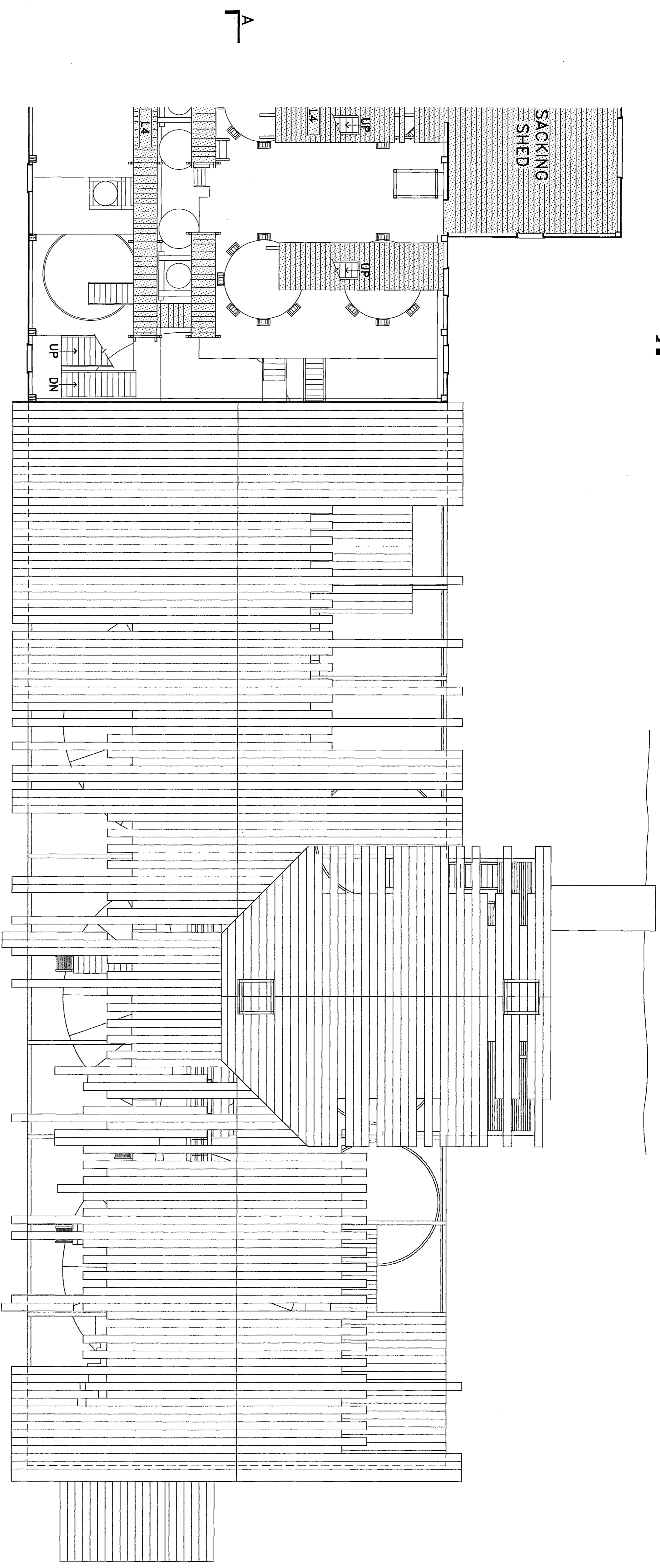
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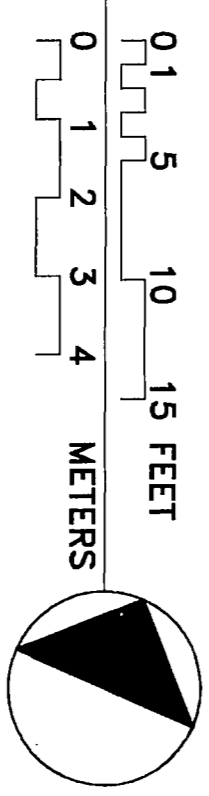
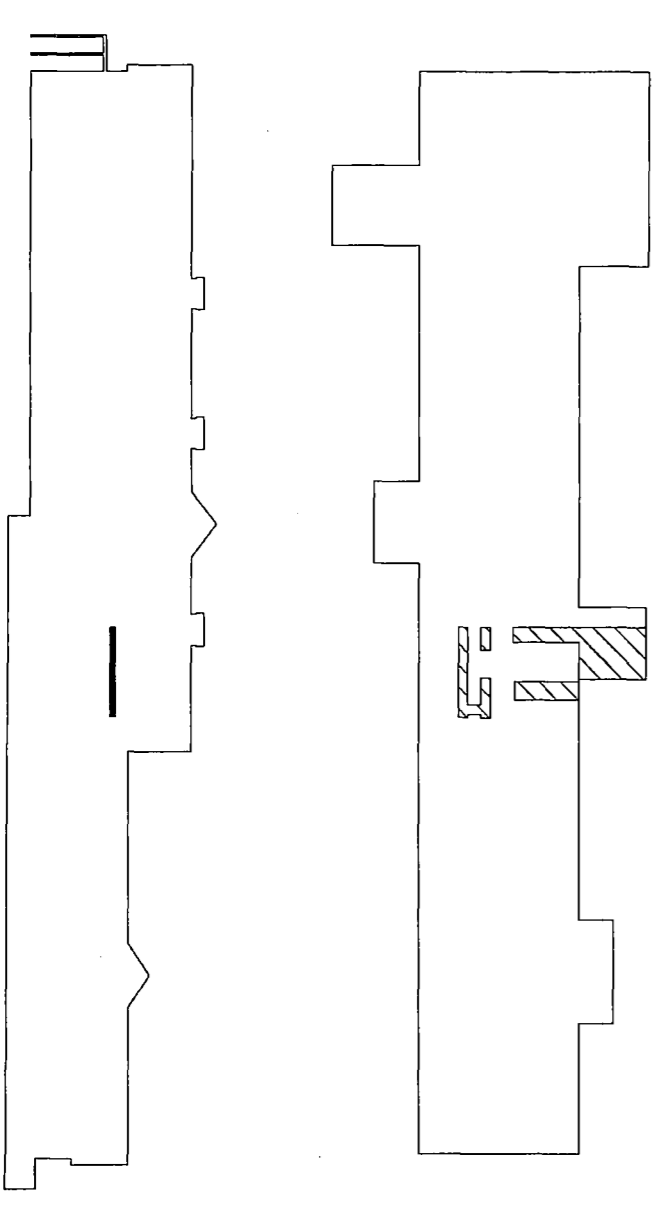
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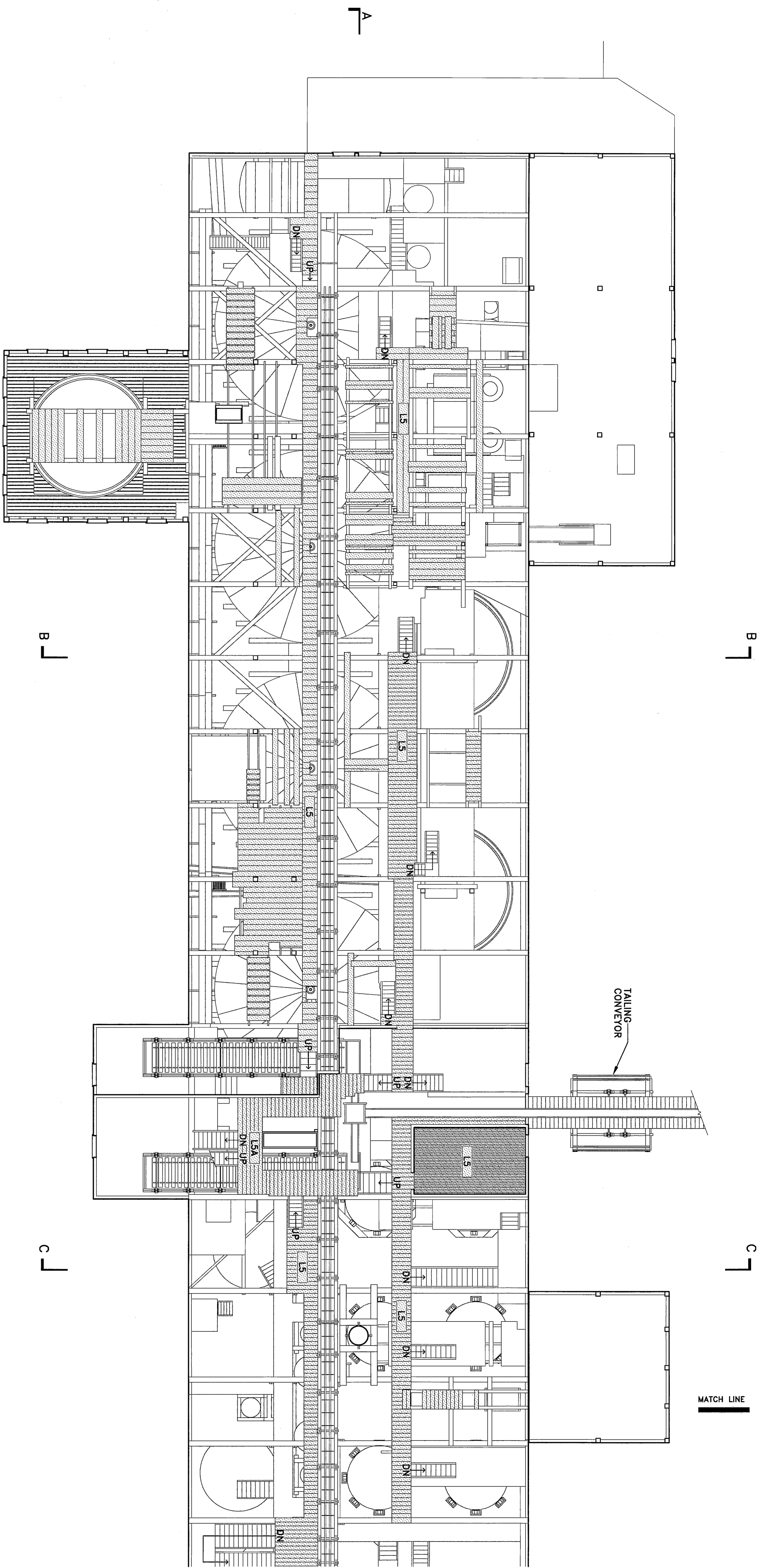
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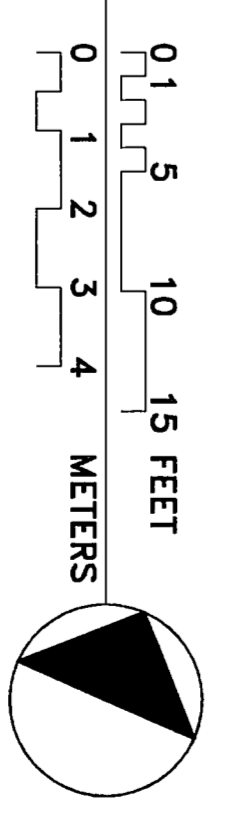
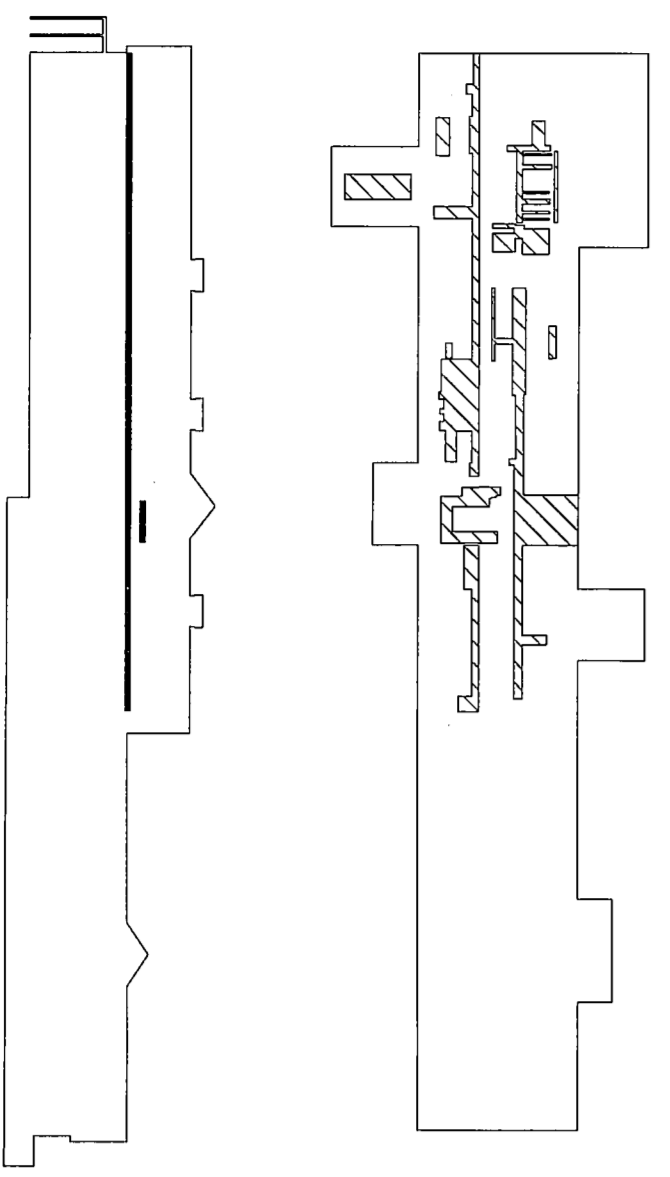
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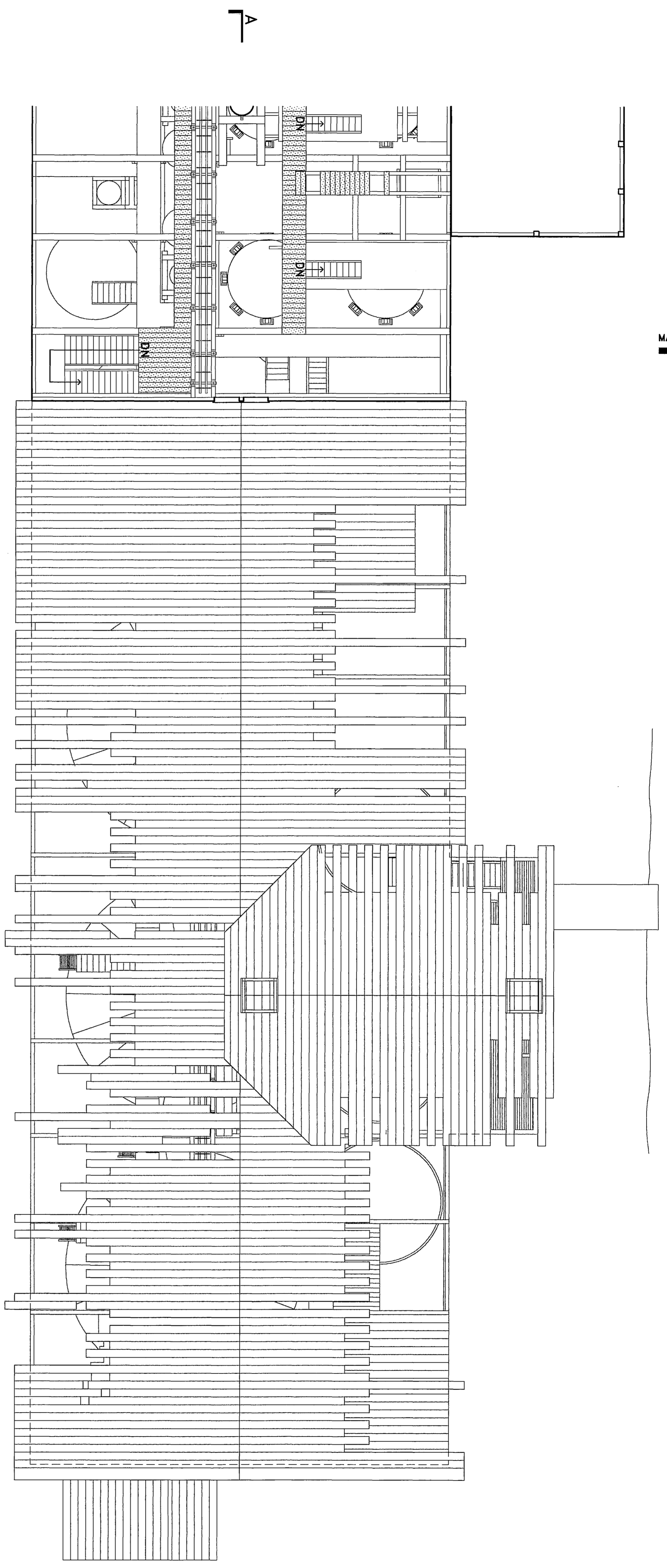
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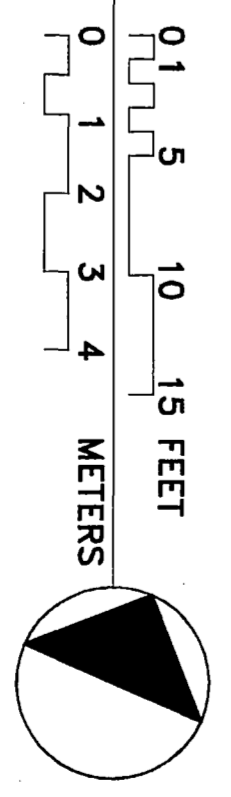
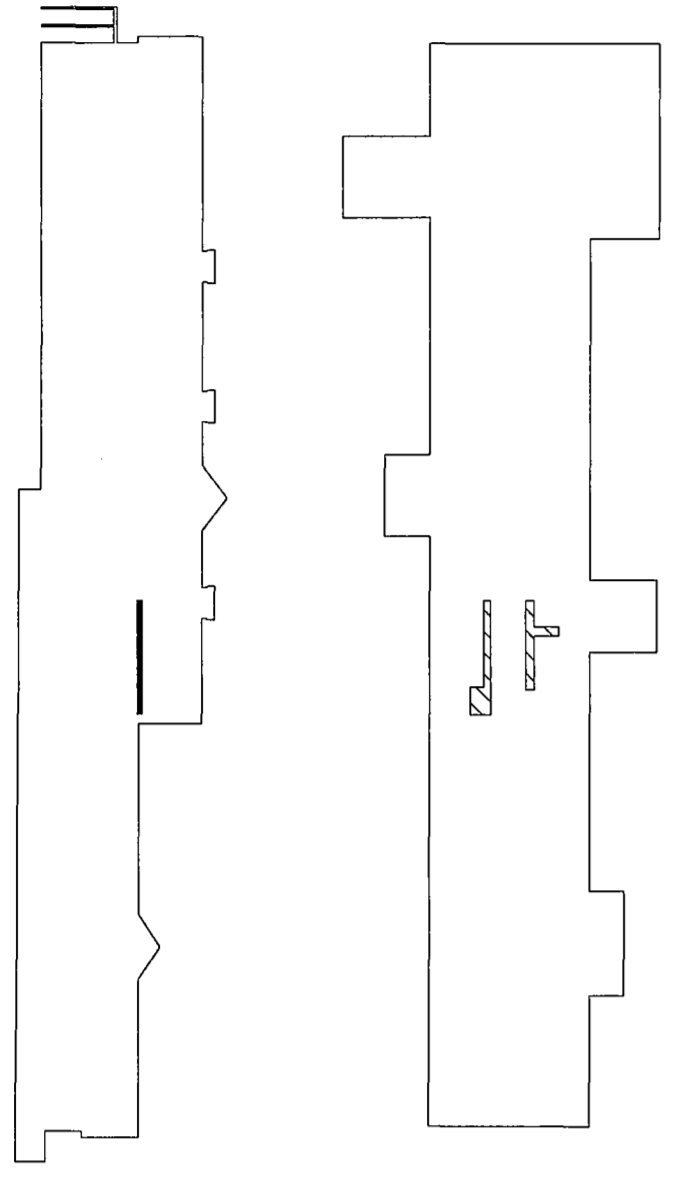
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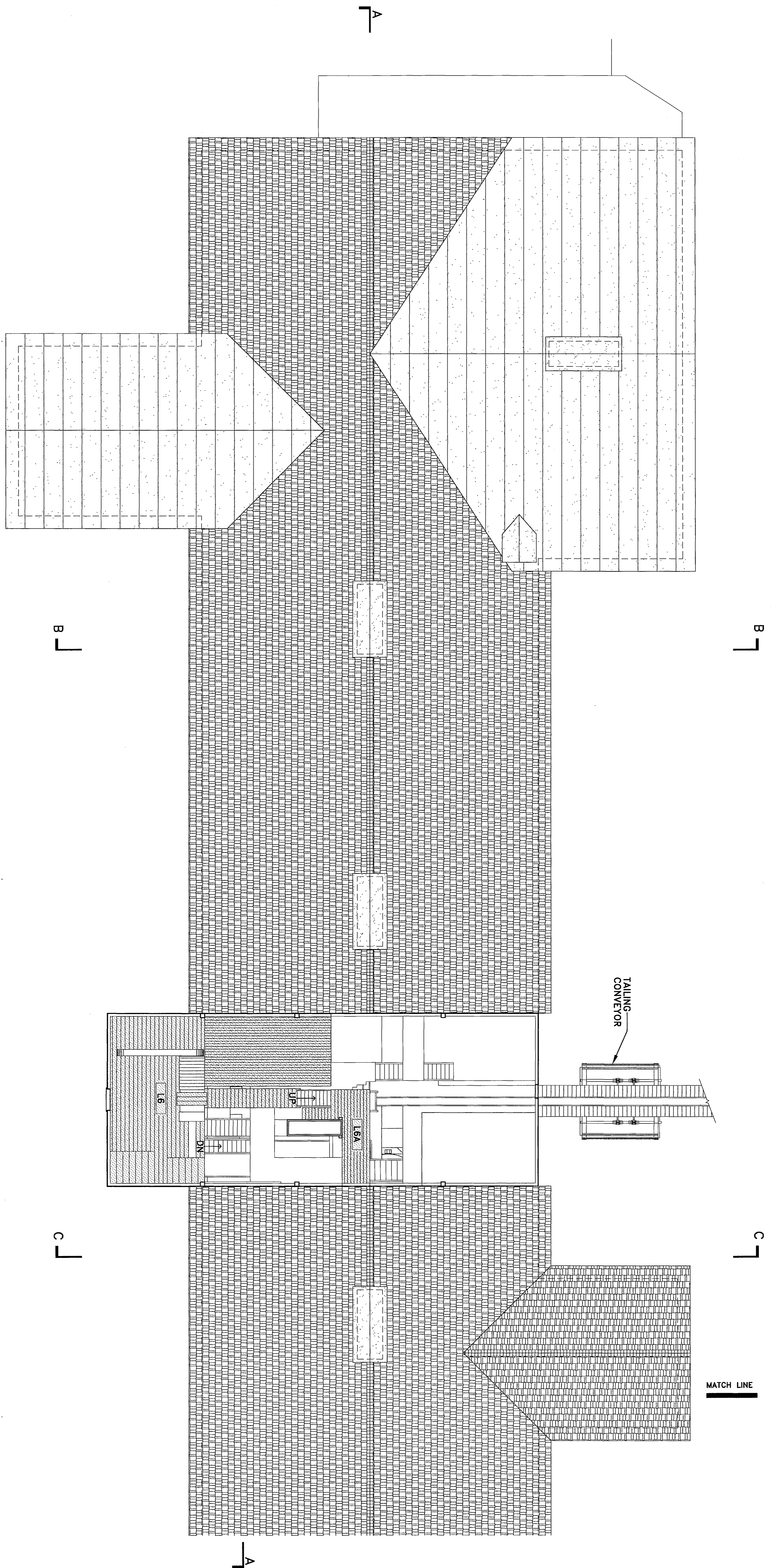
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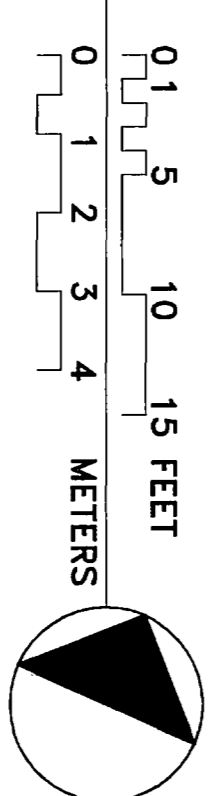
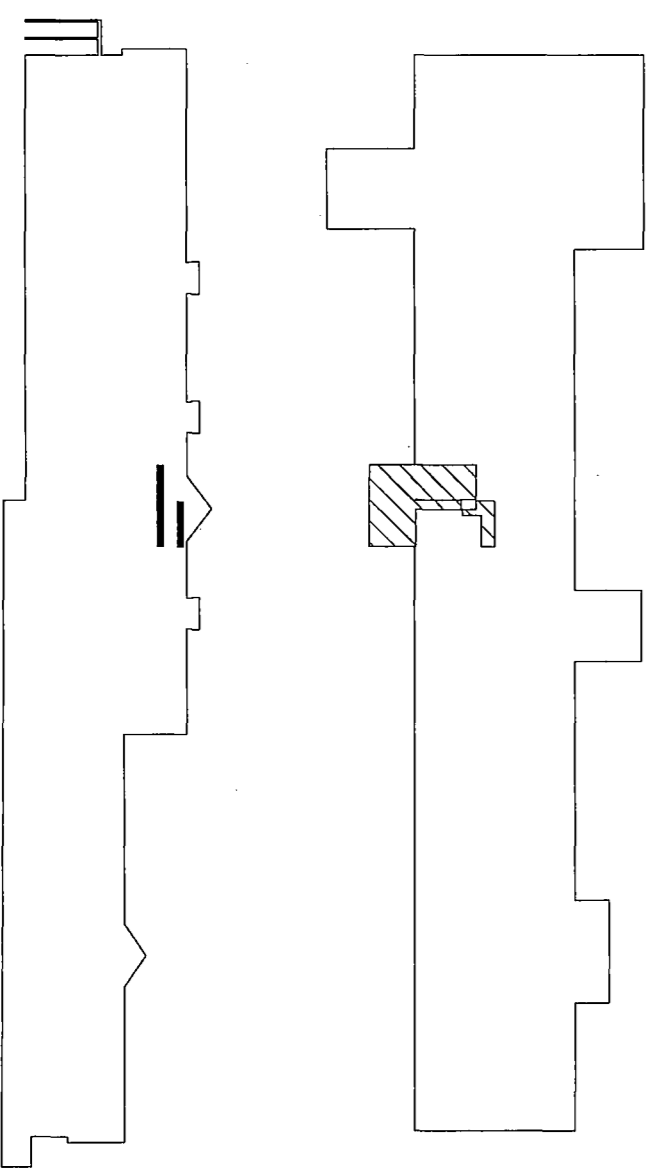
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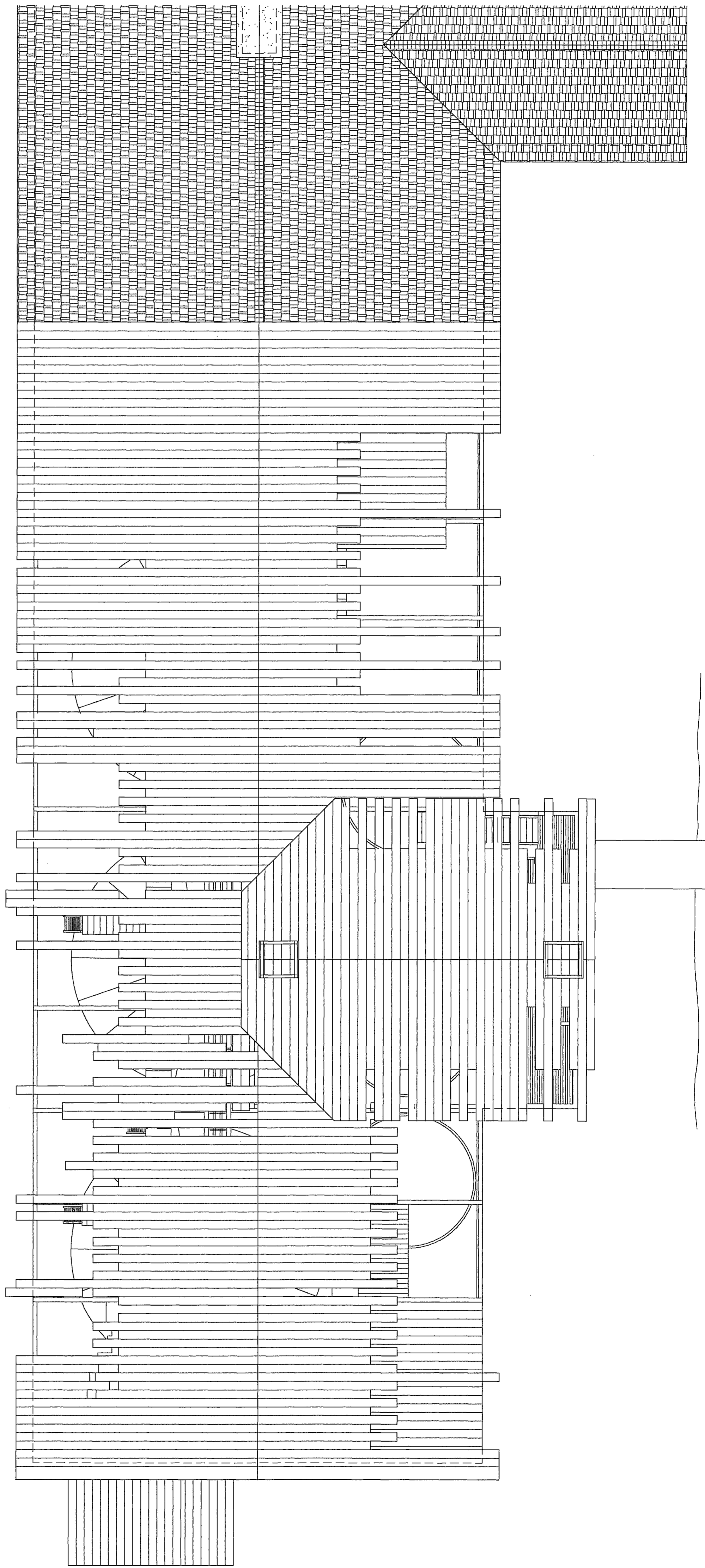
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 SHEET 13 OF 26 SHEETS

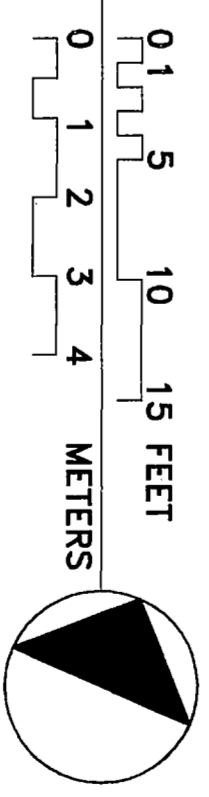
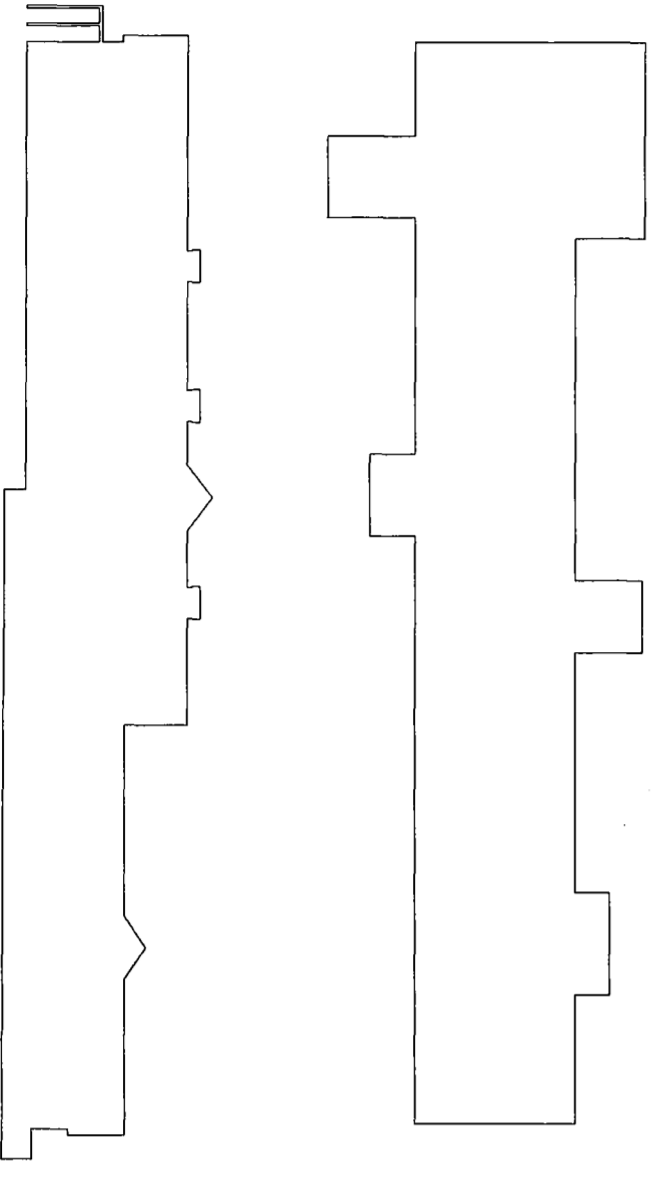
LIBRARY OF CONGRESS
 INDEX NUMBER

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MATCH LINE

LEVEL SIX - SOUTH
SCALE: 1/8" = 1'-0"



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UNITED STATES DEPARTMENT OF THE INTERIOR

KENNICOTT

KENNECOTT COPPER CORPORATION · LEACHING PLANT
WRANGELL - ST. ELIAS NATIONAL PARK AND PRESERVE

ALASKA

SURVEY NO.
AK-1-E

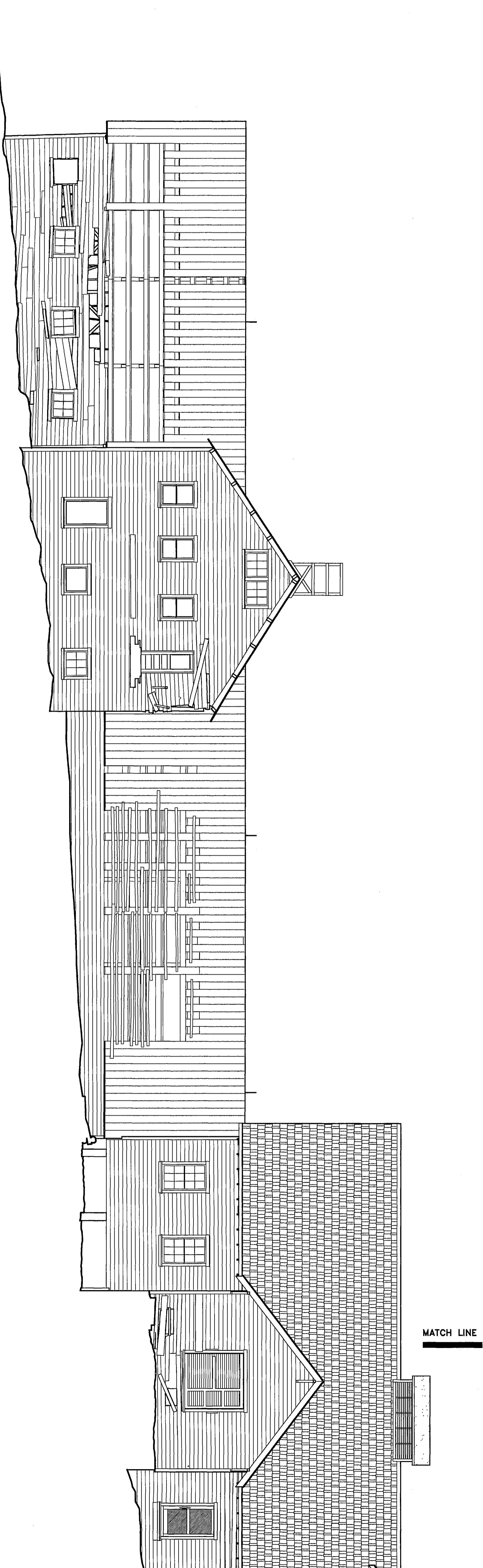
HISTORIC AMERICAN
ENGINEERING RECORD
SHEET 14 OF 26 SHEETS

LIBRARY OF CONGRESS
INDEX NUMBER

- Level Six
52'-0"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"

EAST ELEVATION - SOUTH END

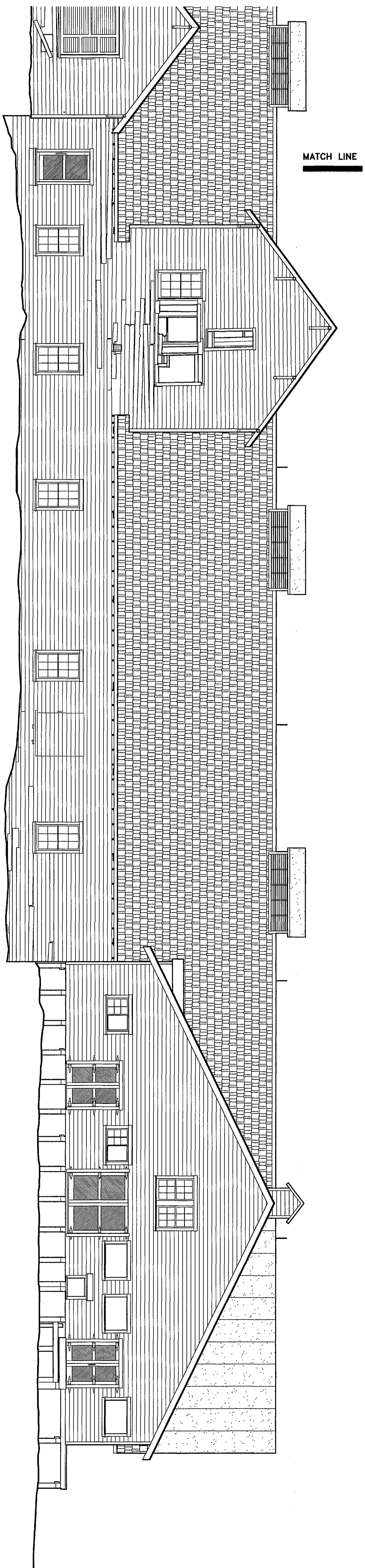
SCALE: 1/8" = 1'-0"



- Level Six
52'-0"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three
18'-11"

EAST ELEVATION - NORTH END

SCALE: 1/8" = 1'-0"



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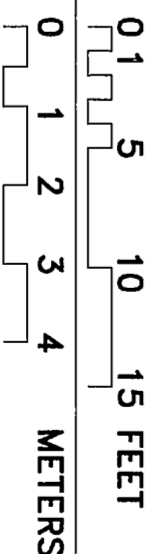
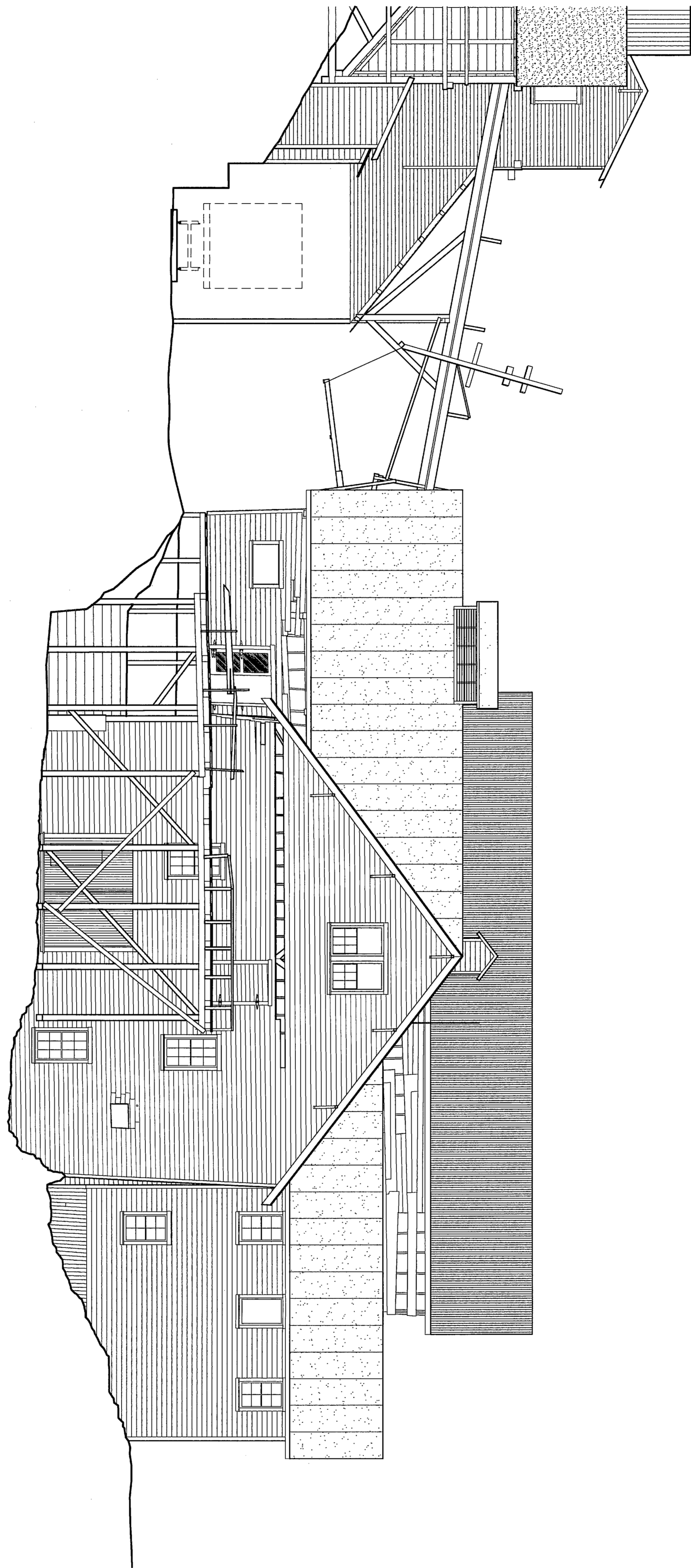
ALASKA

SURVEY NO.
AK-1-E

HISTORIC AMERICAN
ENGINEERING RECORD
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LIBRARY OF CONGRESS
INDEX NUMBER

NORTH ELEVATION
SCALE: 1/8" = 1'-0"



- Level Six
52'-0"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"

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ALASKA

SURVEY NO.
AK-1-E

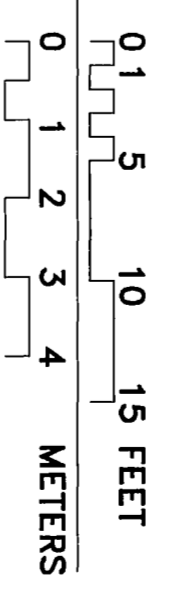
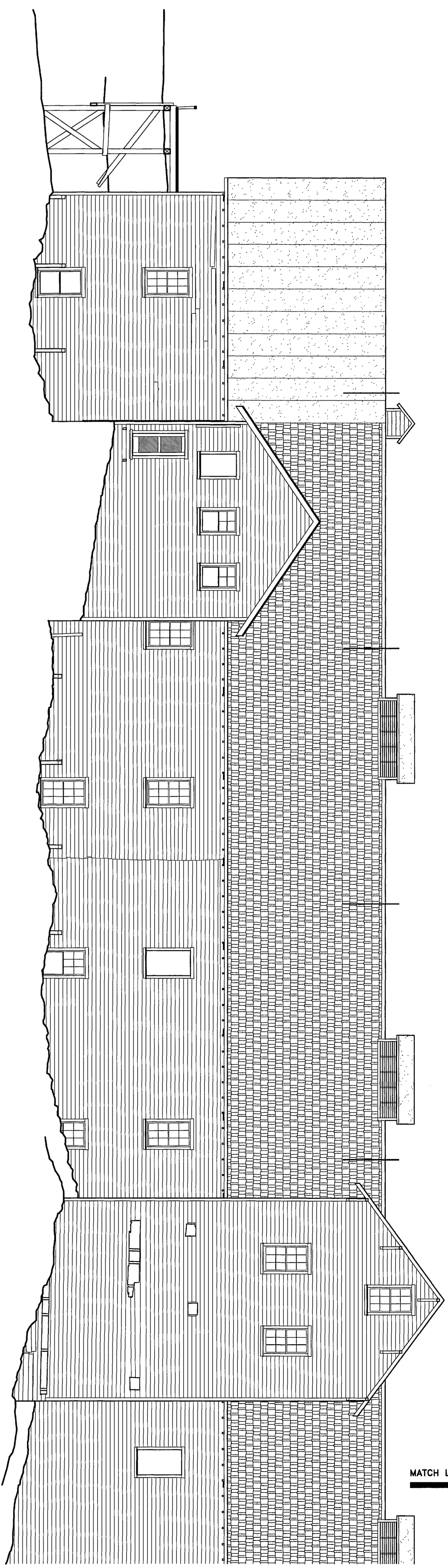
HISTORIC AMERICAN
ENGINEERING RECORD
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LIBRARY OF CONGRESS
INDEX NUMBER

IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING

- Level Six
52'-0"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"

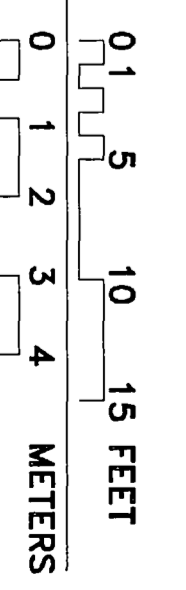
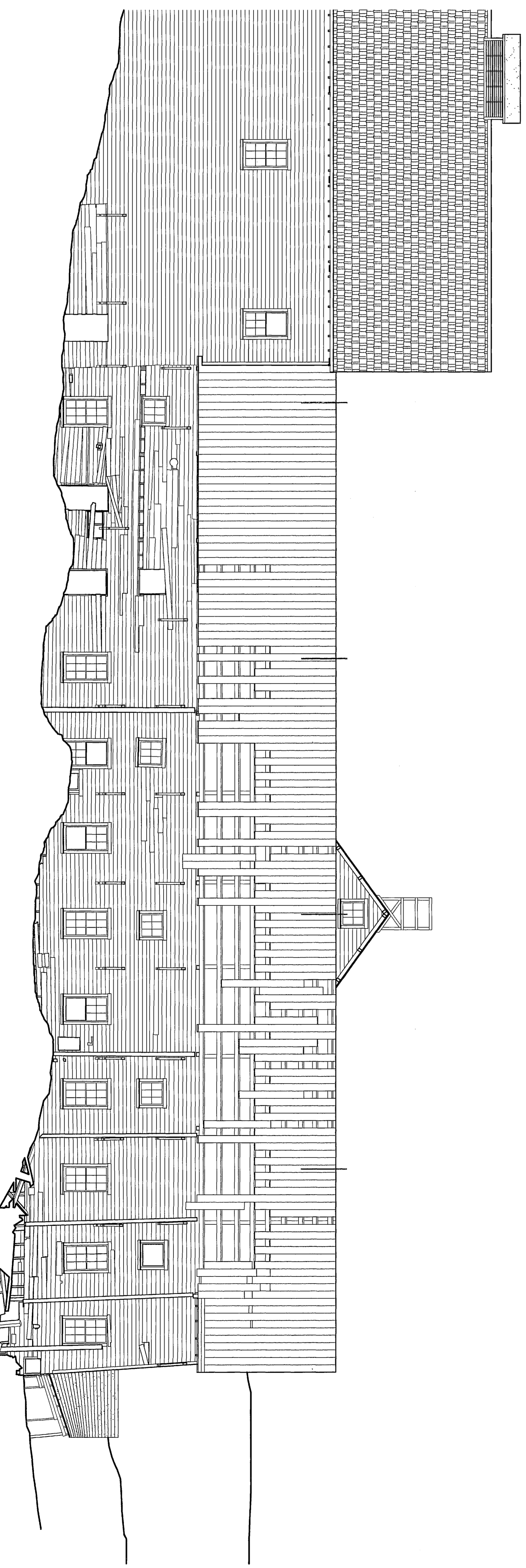
WEST ELEVATION - NORTH END
SCALE: 1/8" = 1'-0"



MATCH LINE

- Level Six
52'-0"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"

WEST ELEVATION - SOUTH END
SCALE: 1/8" = 1'-0"



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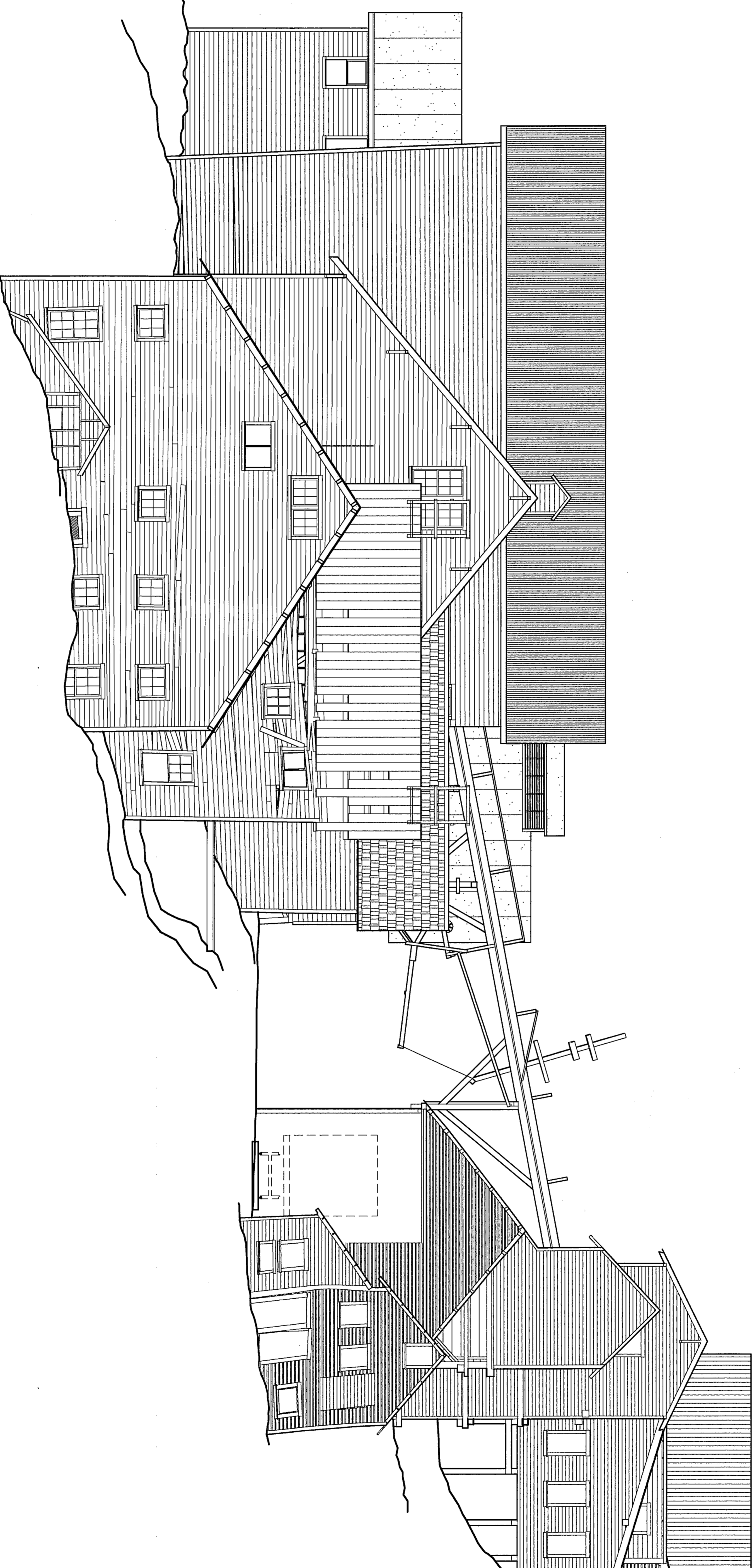
SURVEY NO.
AK-1-E

HISTORIC AMERICAN
ENGINEERING RECORD
SHEET 17 OF 26 SHEETS

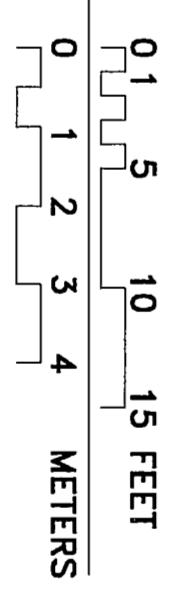
LIBRARY OF CONGRESS
INDEX NUMBER

IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING

- Level Six
52'-0"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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ALASKA

SURVEY NO.
AK-1-E

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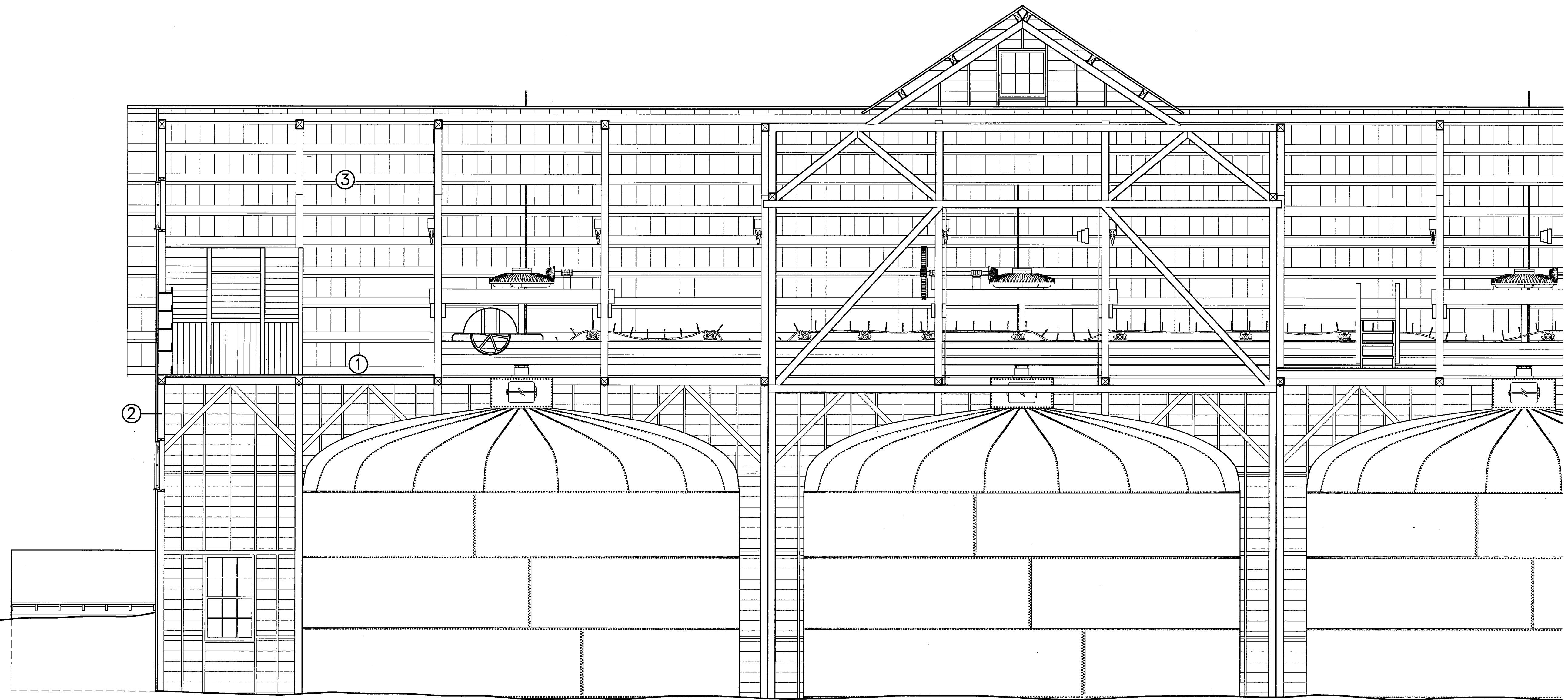
LIBRARY OF CONGRESS
INDEX NUMBER

IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING

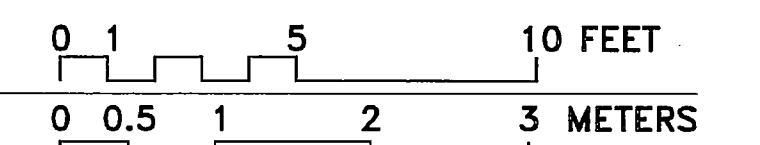
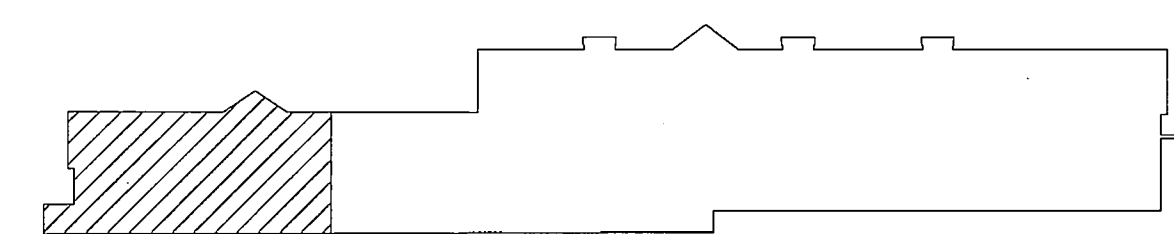
MATERIALS LIST

- ① FLOOR
JOIST: 4"x6" @ RANDOM SPACING
FINISH FLOOR: RANDOM WIDTH 2"x
- ② WALLS
STUDS: 1-5/8"x5-1/2" @ ±2'-0" O.C.
SHEATHING: 3/4"x8-1/2" LAP
SIDING: 3/4"x6-3/4"
- ③ ROOF
PURLINS: 4"x7-3/4"
SHEATHING: 1-3/4"x12" PLANK
ROLLED ROOFING

- Level Six
52'-0"
- Level Five A
45'-1"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three B
25'-6"
- Level Three A
21'-9"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"

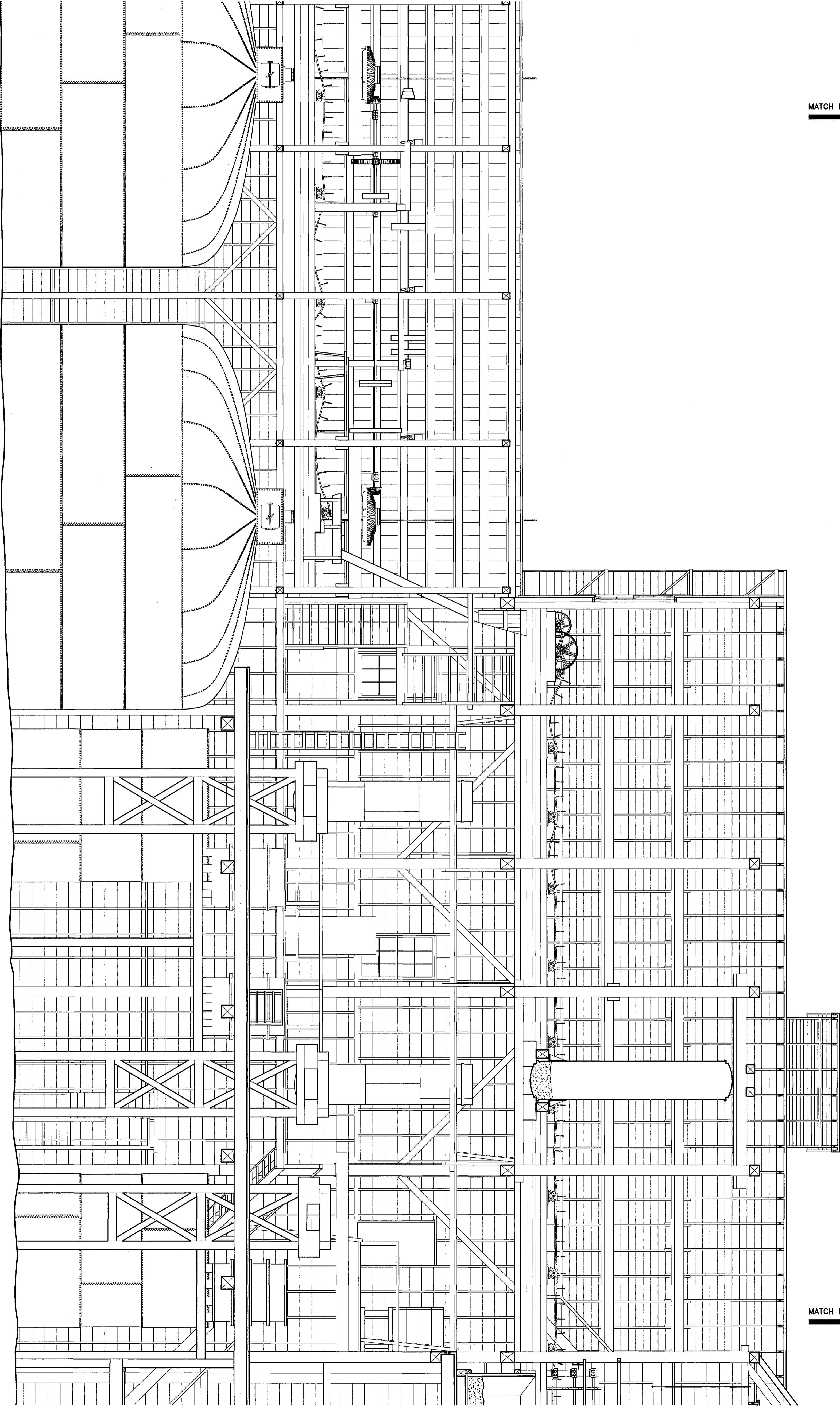


SECTION A-A
SCALE: 1/4" = 1'-0"



IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF SUBJECT, DATE OF DRAWING

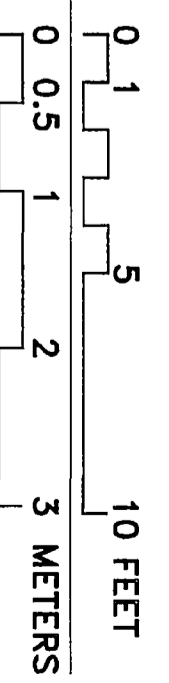
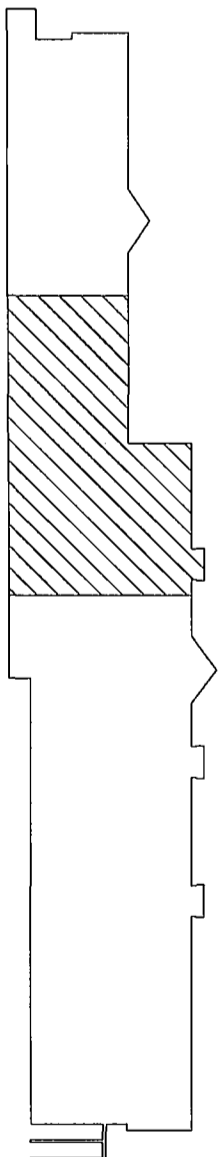
- Level Six
52'-0"
- Level Five A
45'-1"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three B
25'-6"
- Level Three A
21'-9"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"



MATCH LINE

MATCH LINE

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



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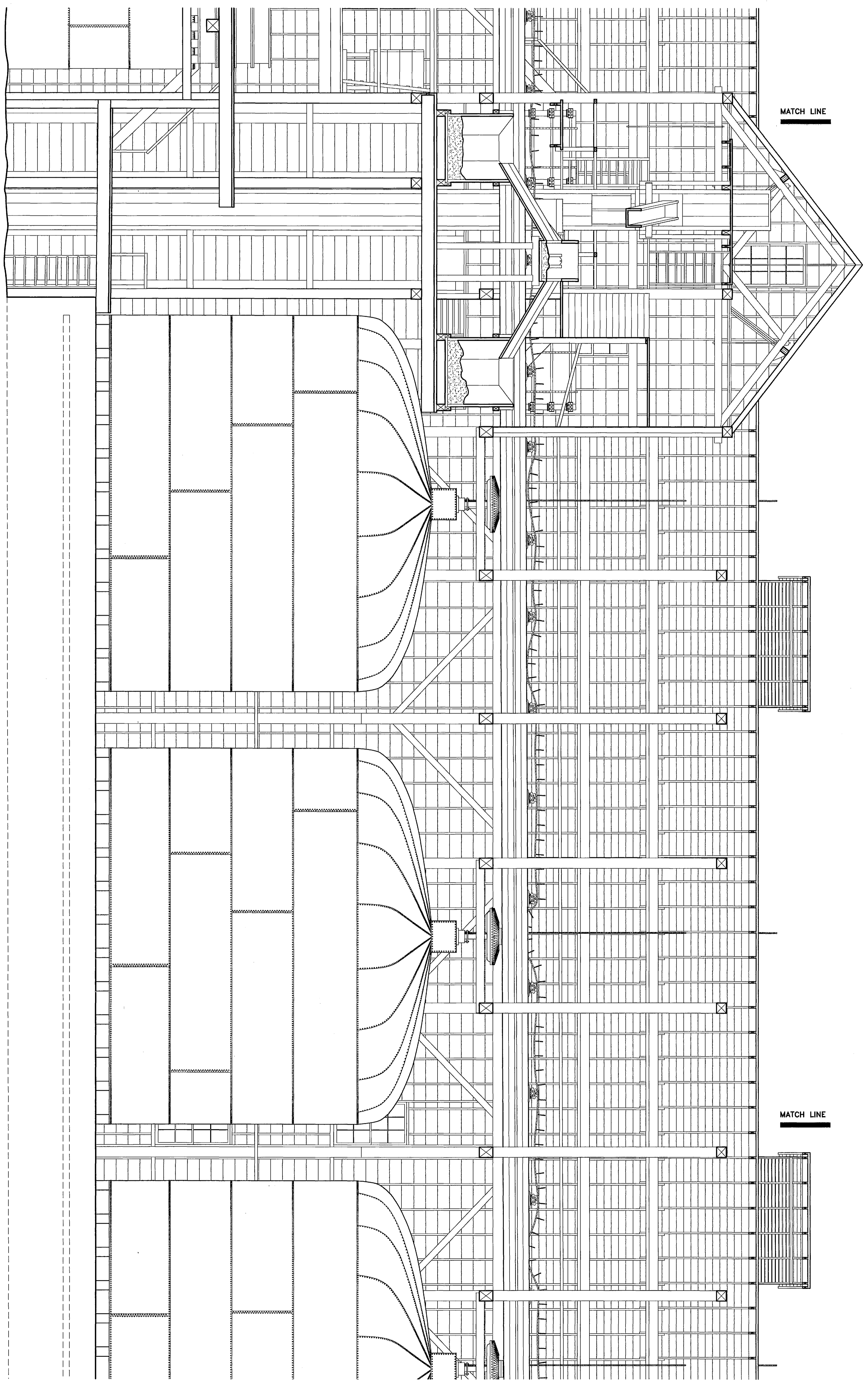
ALASKA

SURVEY NO.
AK-1-E

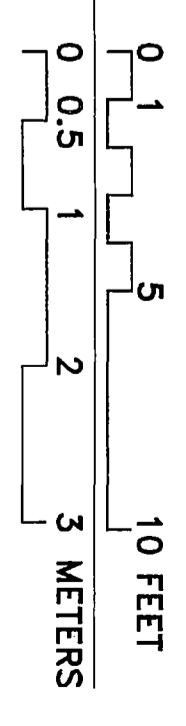
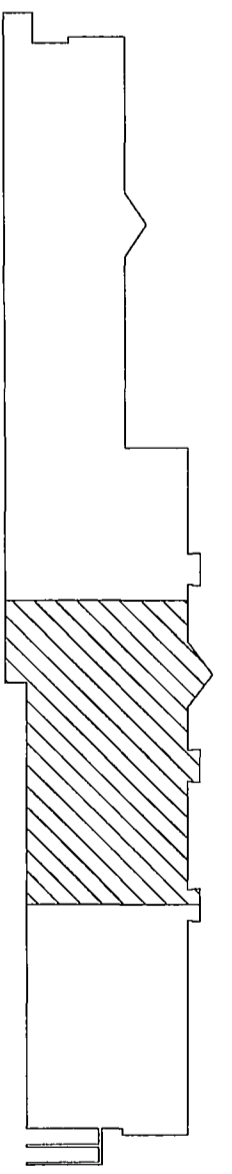
HISTORIC AMERICAN
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- Level One
0'-0"
- Level Two
9'-3"
- Level Three A
21'-9"
- Level Three B
25'-6"
- Level Four
34'-6"
- Level Five
40'-8"
- Level Five A
45'-1"
- Level Six
52'-0"



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



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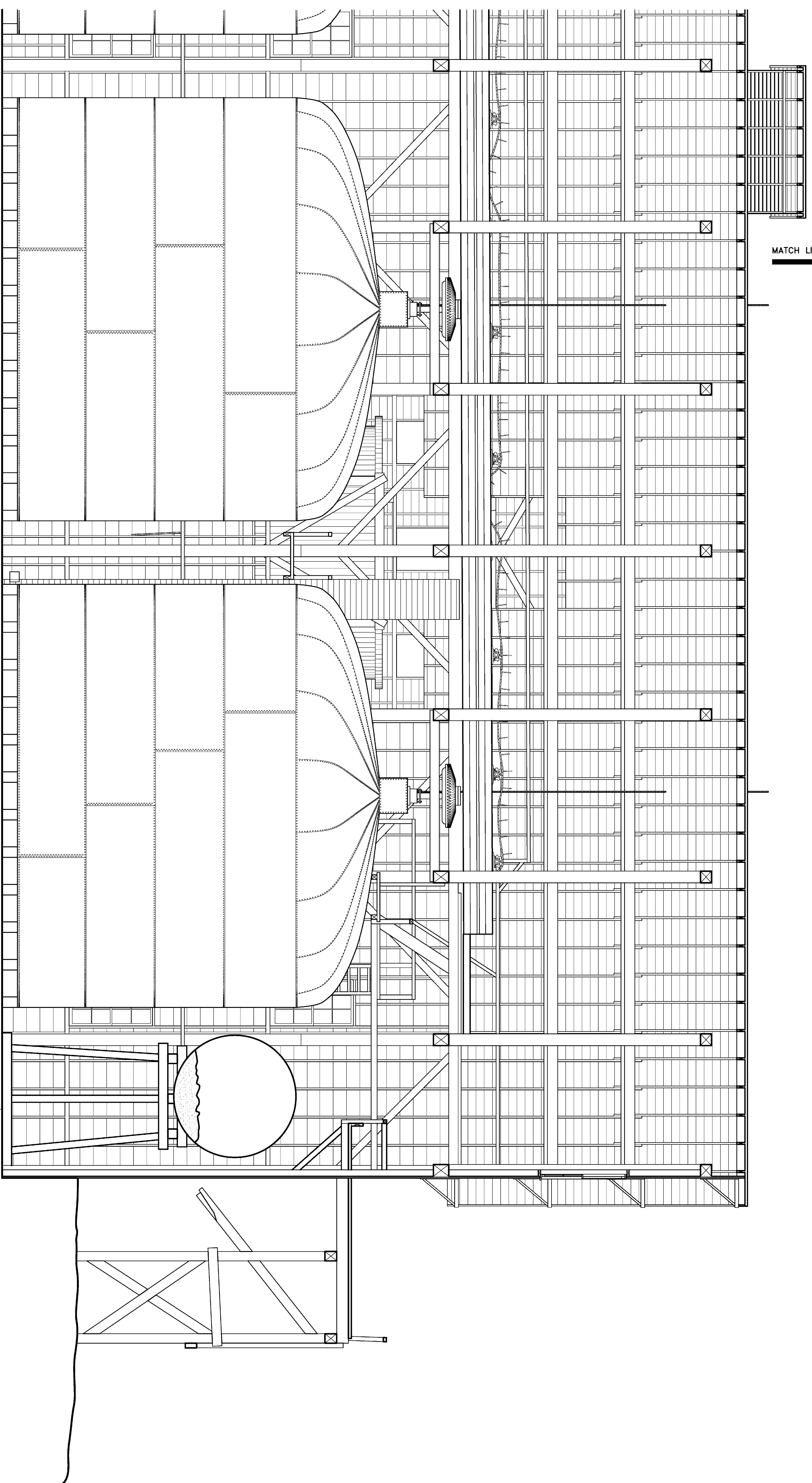
SURVEY NO.
AK-1-E

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INDEX NUMBER

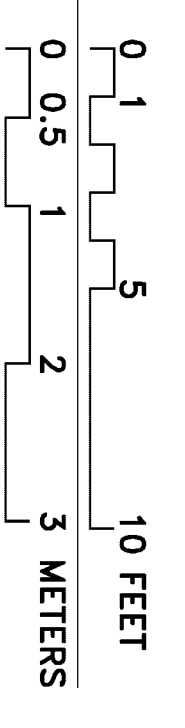
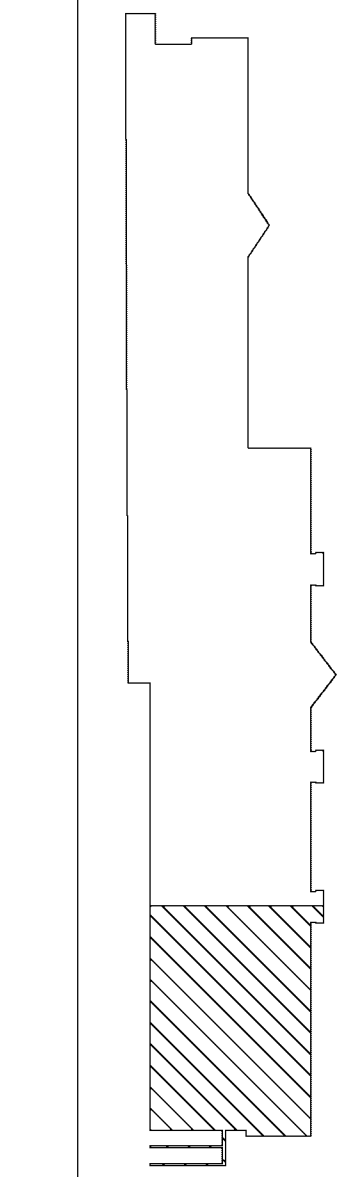
IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING

- Level Six
52'-0"
- Level Five A
45'-1"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three B
25'-6"
- Level Three A
21'-9"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"



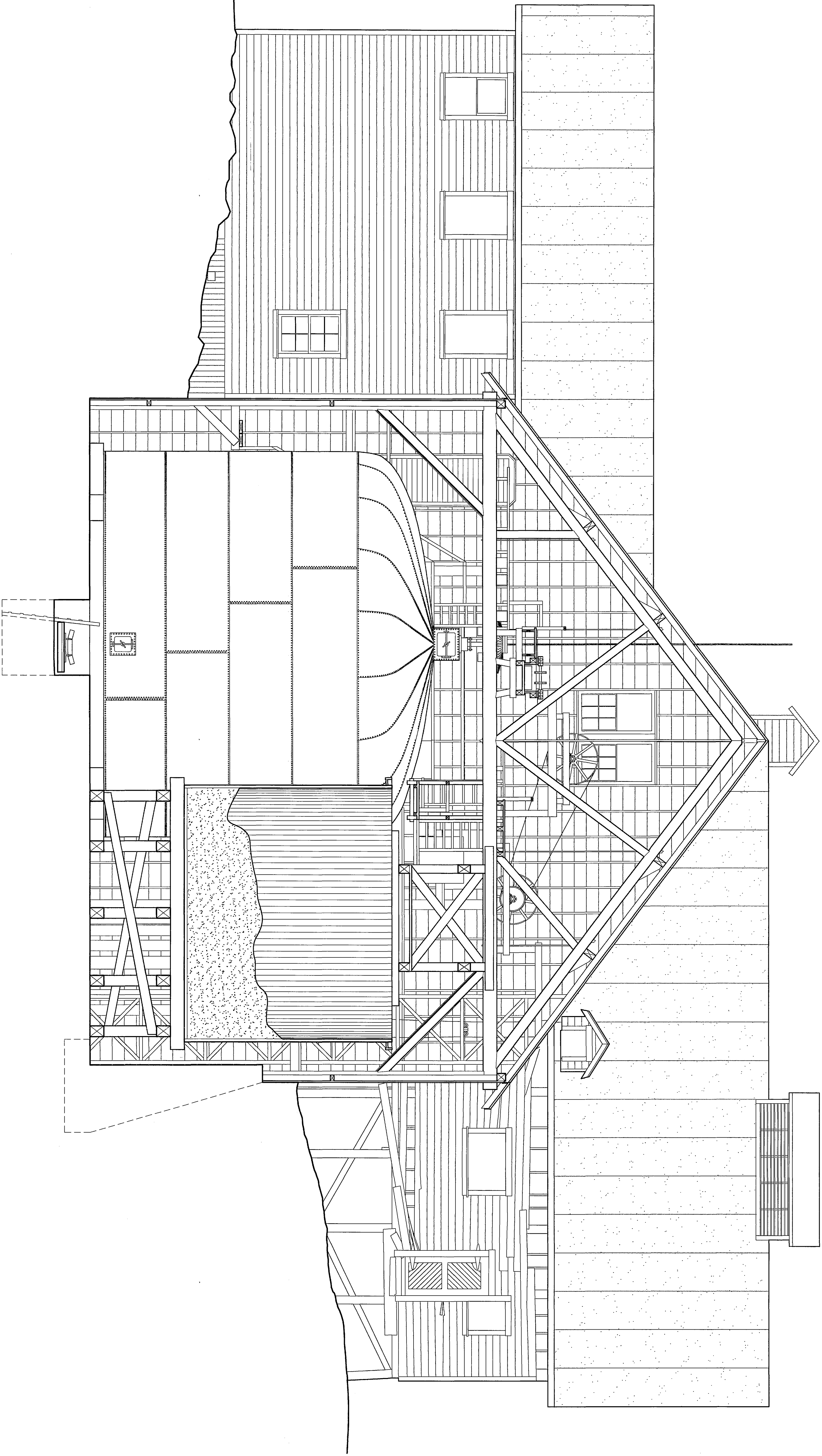
Conveyor

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

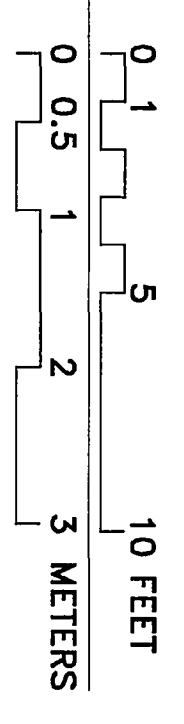


IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING

- Level Six A
9'-3"
- Level Six
52'-0"
- Level Five A
45'-1"
- Level Five
40'-8"
- Level Four
34'-6"
- Level Three B
25'-6"
- Level Three A
21'-9"
- Level Three
18'-11"
- Level Two
9'-3"
- Level One
0'-0"



SECTION B-B
SCALE: 1/4" = 1'-0"



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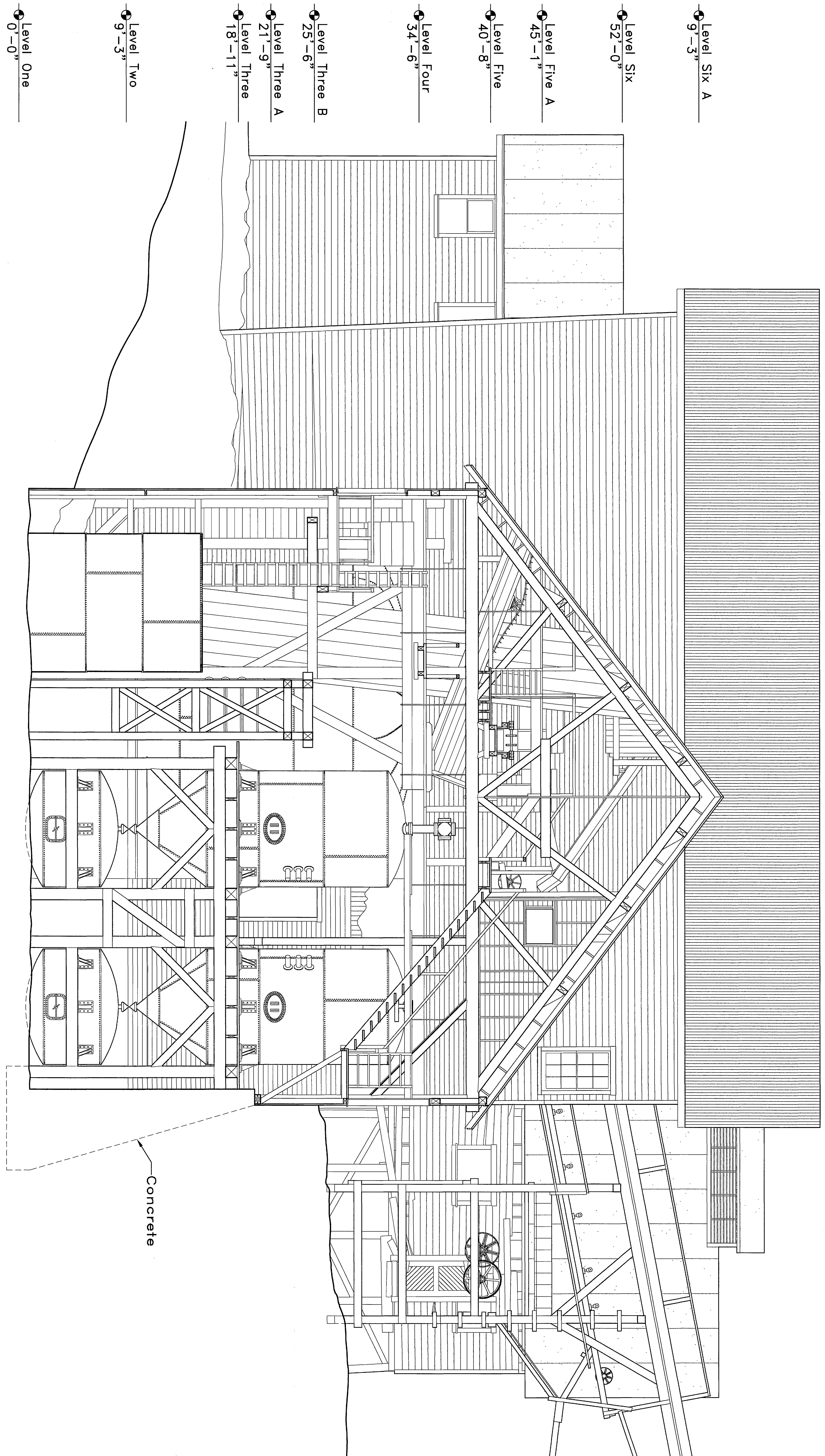
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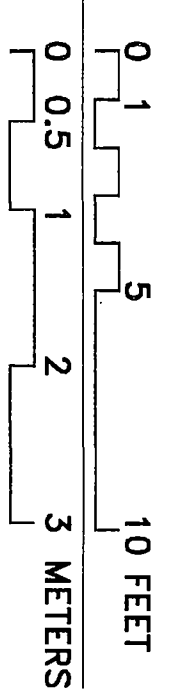
SURVEY NO.
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SECTION C-C
SCALE: 1/4" = 1'-0"



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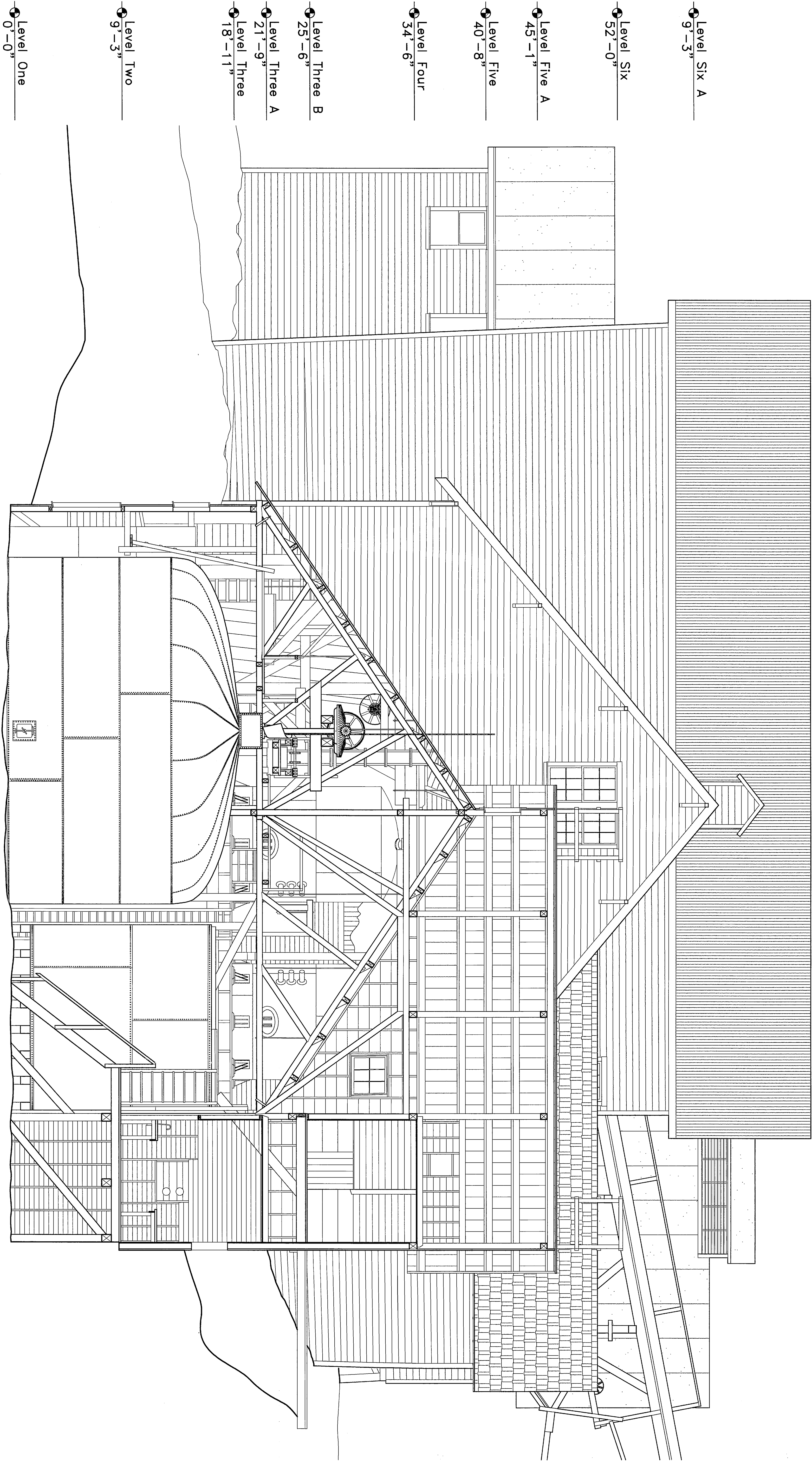
ALASKA

SURVEY NO.
AK-1-E

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LIBRARY OF CONGRESS
INDEX NUMBER

IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING



Level Six A
9'-3"

Level Six
52'-0"

Level Five A
45'-1"

Level Five
40'-8"

Level Four
34'-6"

Level Three B
25'-6"

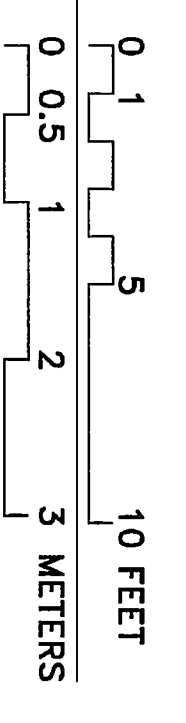
Level Three A
21'-9"

Level Three
18'-11"

Level Two
9'-3"

Level One
0'-0"

SECTION D-D
SCALE: 1/4" = 1'-0"



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ALASKA

SURVEY NO.
AK-1-E

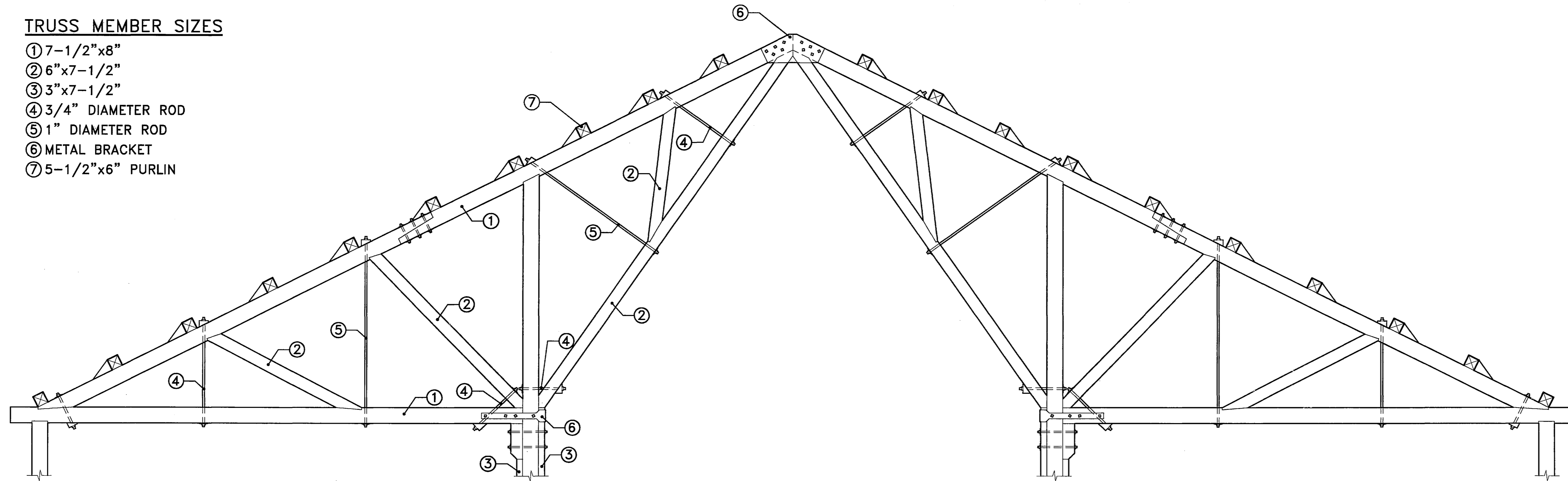
HISTORIC AMERICAN
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INDEX NUMBER

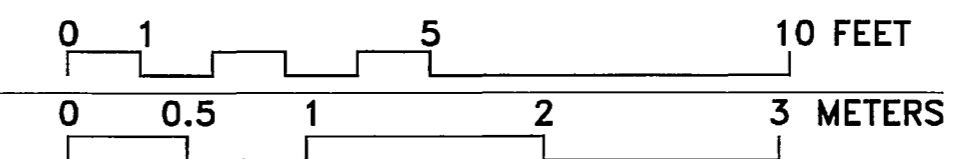
IF REPRODUCED, PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING

TRUSS MEMBER SIZES

- ① 7-1/2"x8"
- ② 6"x7-1/2"
- ③ 3"x7-1/2"
- ④ 3/4" DIAMETER ROD
- ⑤ 1" DIAMETER ROD
- ⑥ METAL BRACKET
- ⑦ 5-1/2"x6" PURLIN

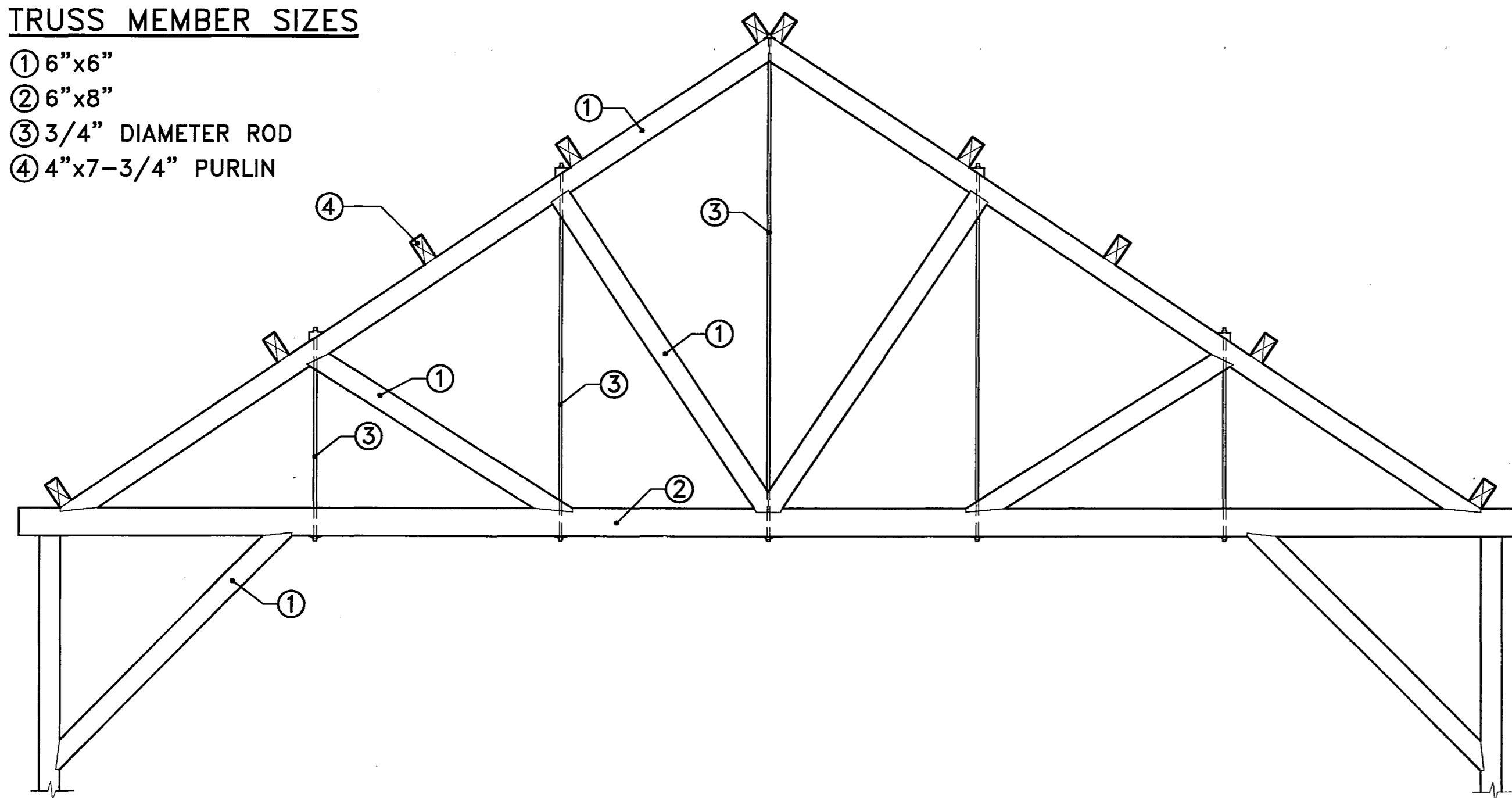


NORTH SACKING SHED TRUSS
SCALE: 3/8"=1'-0"

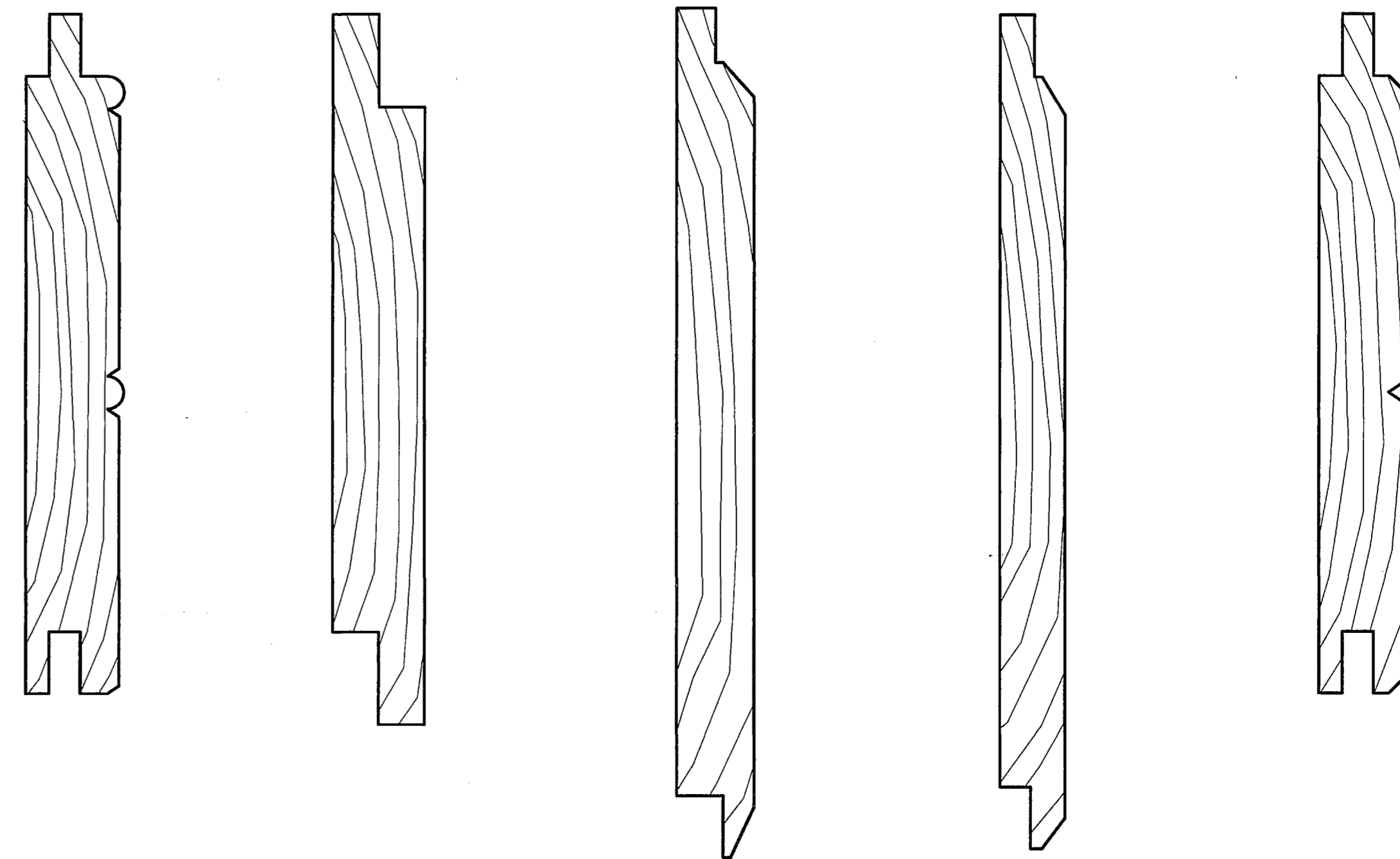
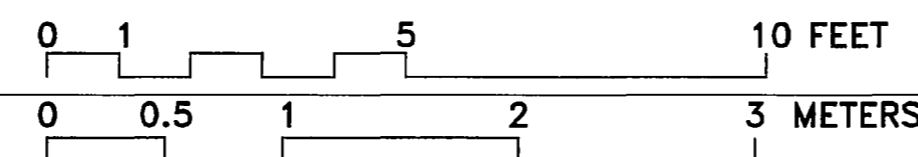


TRUSS MEMBER SIZES

- ① 6"x6"
- ② 6"x8"
- ③ 3/4" DIAMETER ROD
- ④ 4"x7-3/4" PURLIN



SOUTH LAB/OFFICE ADDITION TRUSS
SCALE: 3/8"=1'-0"



TYPICAL SIDING & SHEATHING TYPES
SCALE: FULL SIZE

