

Architecture
Graphic Design
Interior Design
Planning
Programming



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Miles K. Onishi
Signature

Project
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant

KEY PLAN

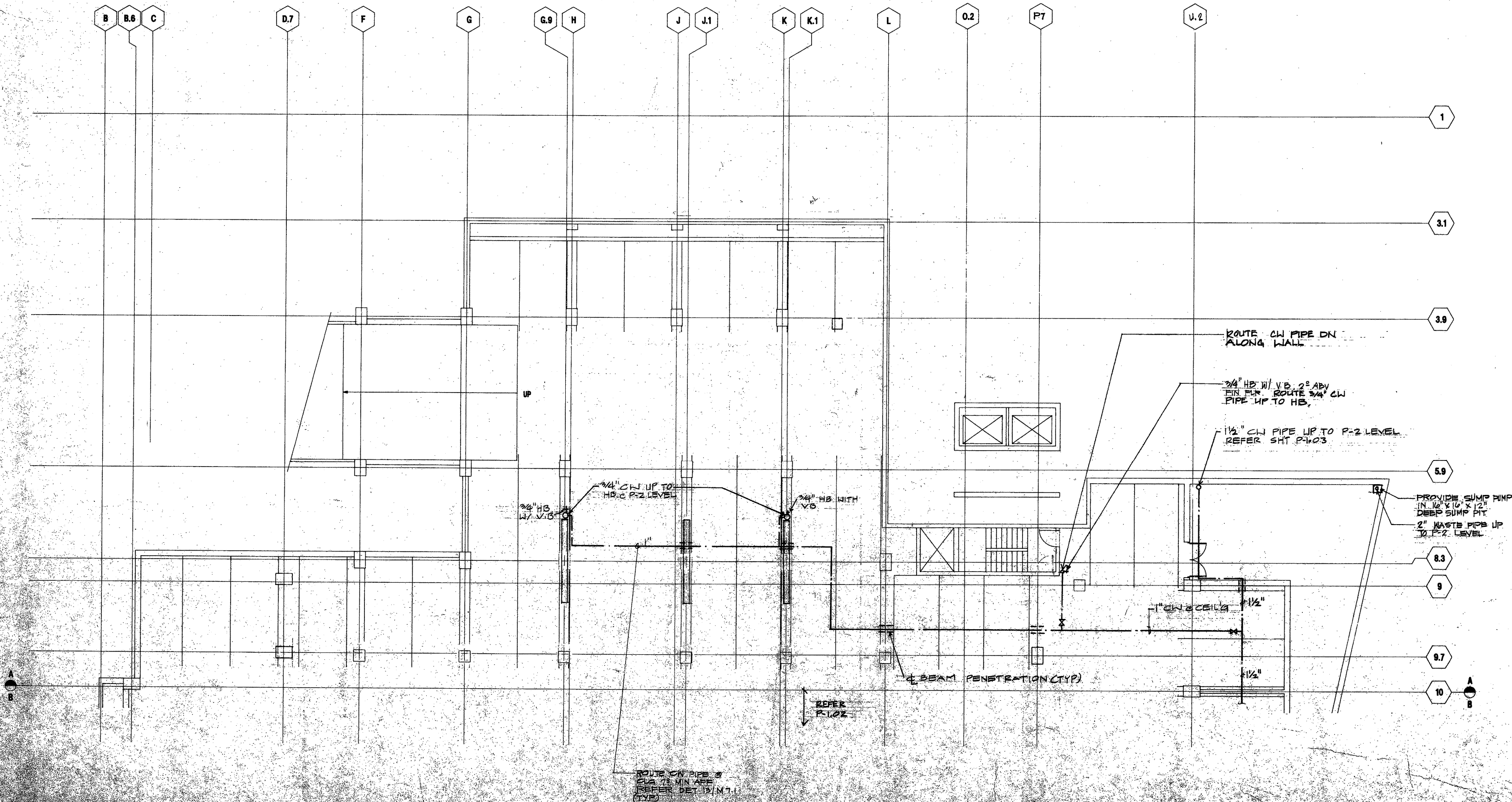
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1 MARCH 1994

LEVEL P PART A
PLUMBING PLAN

APPROVED FOR CONSTRUCTION
BY: [Signature]
DATE: [Date]

P-10



LEVEL P PART A PLUMBING PLAN
SCALE: 1/8" = 1'-0"

Architecture
Graphic Design
Interior Design
Planning
Programming

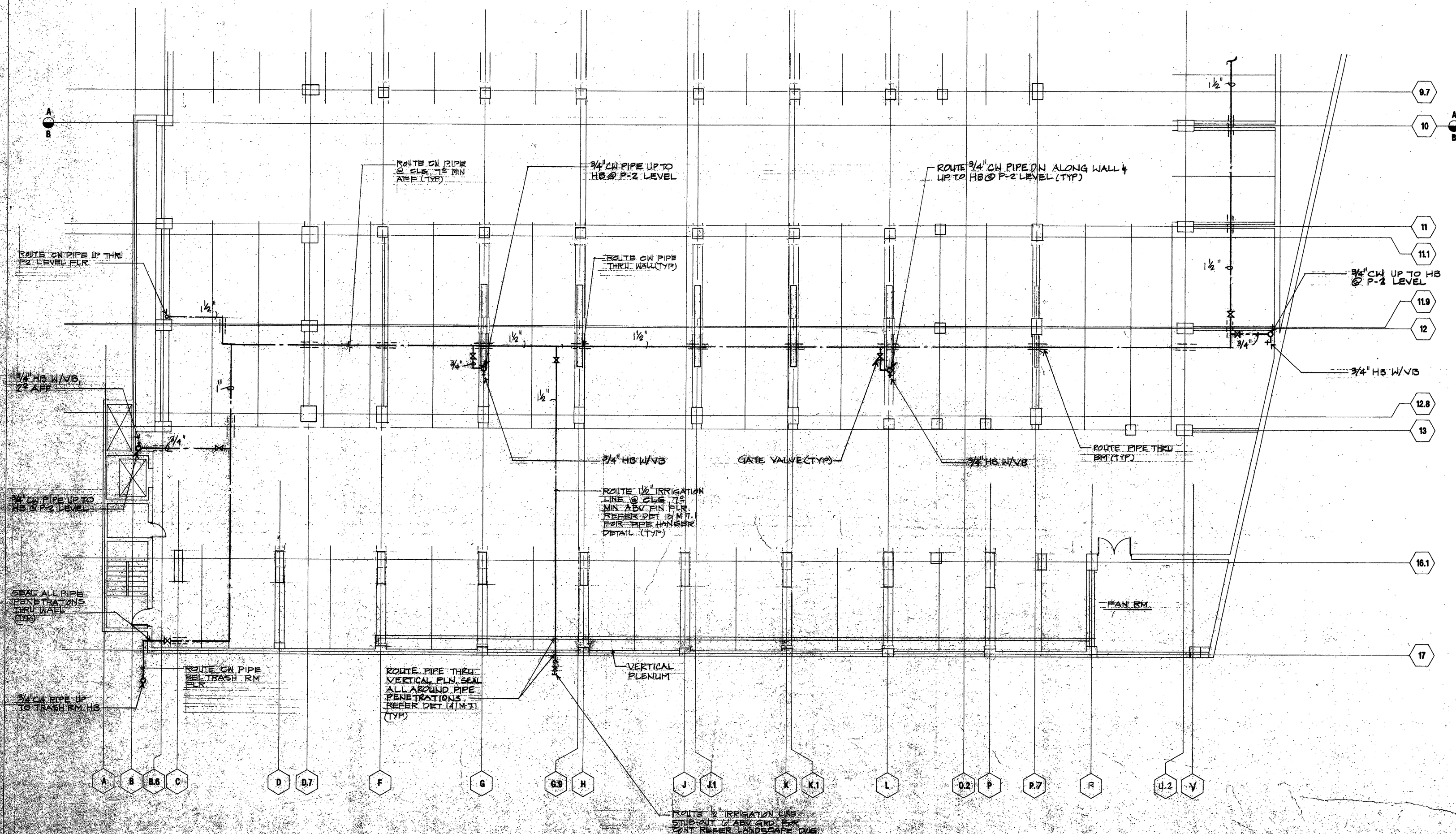


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION,
Mike K. Onishi
Signature

Project
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant

KEY PLAN



30 LEVEL P1 PART B PLUMBING PLAN
SCALE 1/8\"/>

MARCH, 1994
**LEVEL P1 PART B
PLUMBING PLAN**

APPROVED

This set of drawings and specifications shall be used for the design and construction of the project. It is the responsibility of the contractor to verify the accuracy of the information shown on these drawings and to obtain all necessary permits. The drawings are to be used in accordance with the provisions of the Hawaii Building Code and the rules of the Board of Building Officials. No part of these drawings shall be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without prior written permission from the architect.

Architecture
Graphic Design
Interior Design
Planning
Programming



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Mike K. Oshiro
Signature

HONUAKAHA AFFORDABLE HOUSING COMPLEX

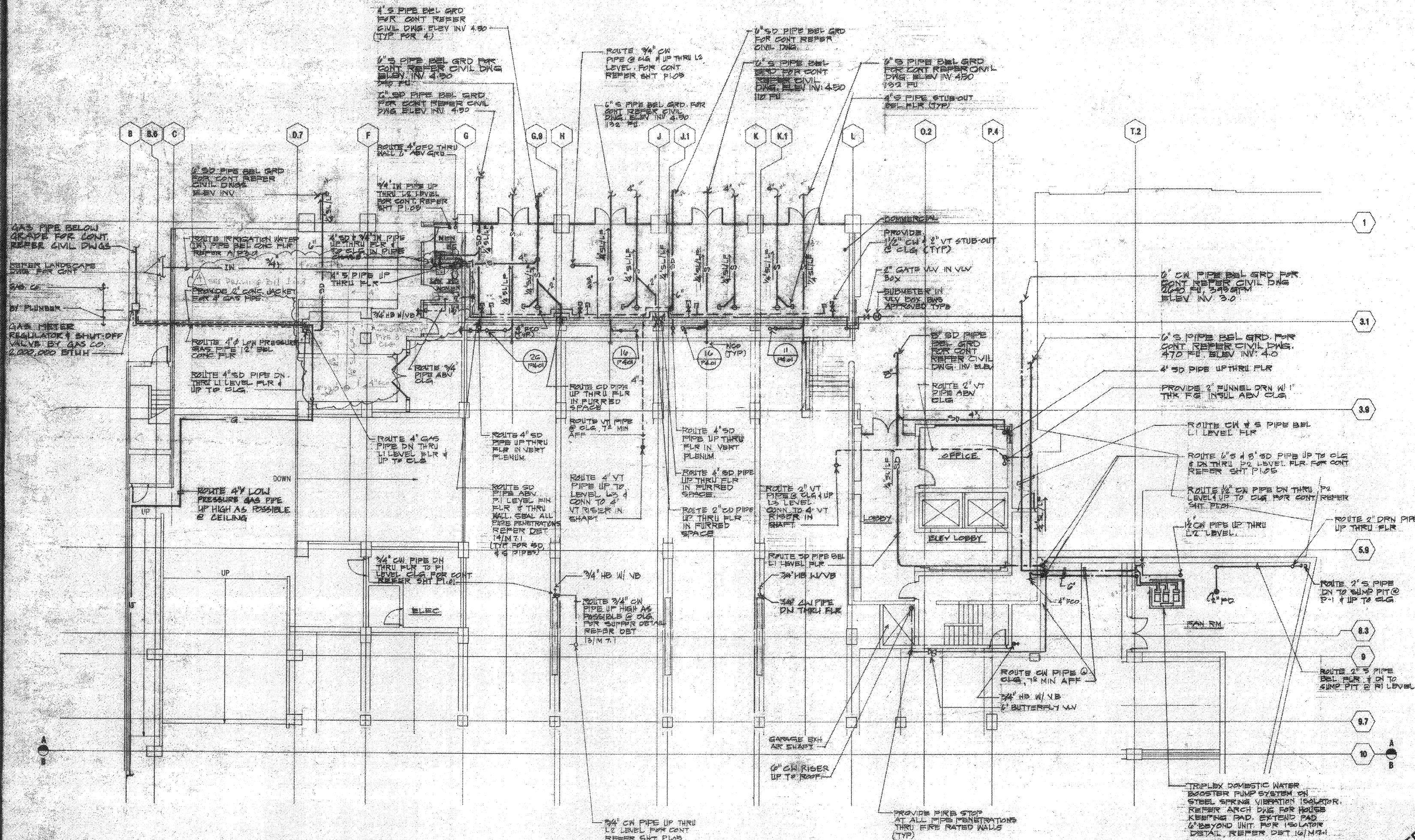
Consultant

KEY PLAN

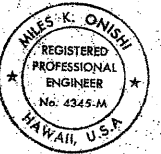
No.	Rev.	Date	Description
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2	1	1/1/88	ISSUED FOR PERMIT
3	1	1/1/88	ISSUED FOR PERMIT
4	1	1/1/88	ISSUED FOR PERMIT
5	1	1/1/88	ISSUED FOR PERMIT
6	1	1/1/88	ISSUED FOR PERMIT
7	1	1/1/88	ISSUED FOR PERMIT
8	1	1/1/88	ISSUED FOR PERMIT
9	1	1/1/88	ISSUED FOR PERMIT
10	1	1/1/88	ISSUED FOR PERMIT

APPROVED
This work and specifications must be approved by the City of Honolulu, Hawaii, Department of Planning and Development, before construction begins. The drawings of this plan are to be used for construction only and are not to be used for any other purpose without the written consent of the City of Honolulu, Hawaii.
Building Department, City of Honolulu

LEVEL PLAN PART A PLUMBING PLAN



Architecture
Graphic Design
Interior Design
Planning
Programming



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Miles K. Onishi
Signature

Project

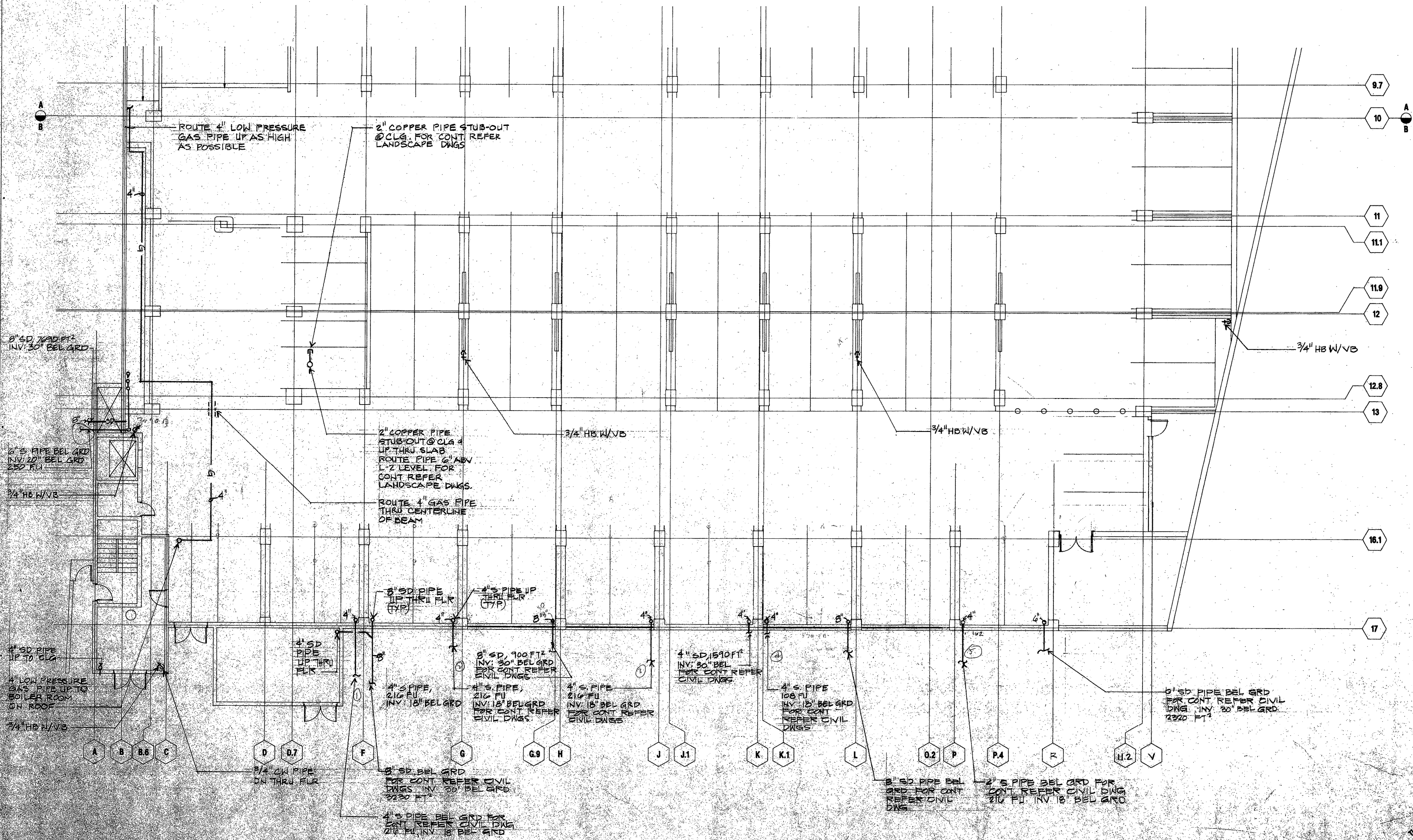
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant

KEY PLAN

APPROVED
This set of drawings was prepared by the undersigned and is a true and correct copy of the original drawings as submitted to the Department of Planning and Zoning for review and approval. It is hereby certified that the drawings were prepared by the undersigned or under the direct supervision and control of the undersigned, who is a duly Licensed Professional Engineer in the State of Hawaii.
Building Department - CH & Company of Honolulu

FOR CONT. REFER SHT P-103

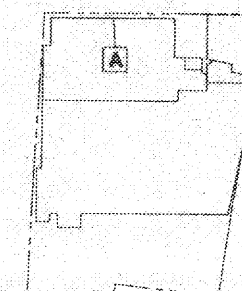


30 LEVEL P2/L1 PART B PLUMBING PLAN
SCALE 1/8\"/>



Project

Consultant



KEY PLAN

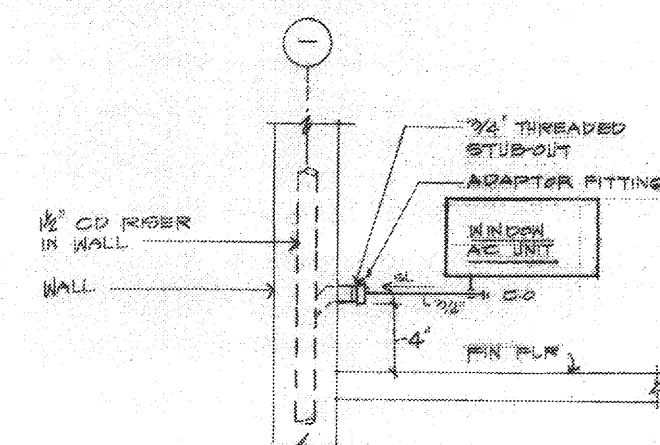
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7 MARCH 1974

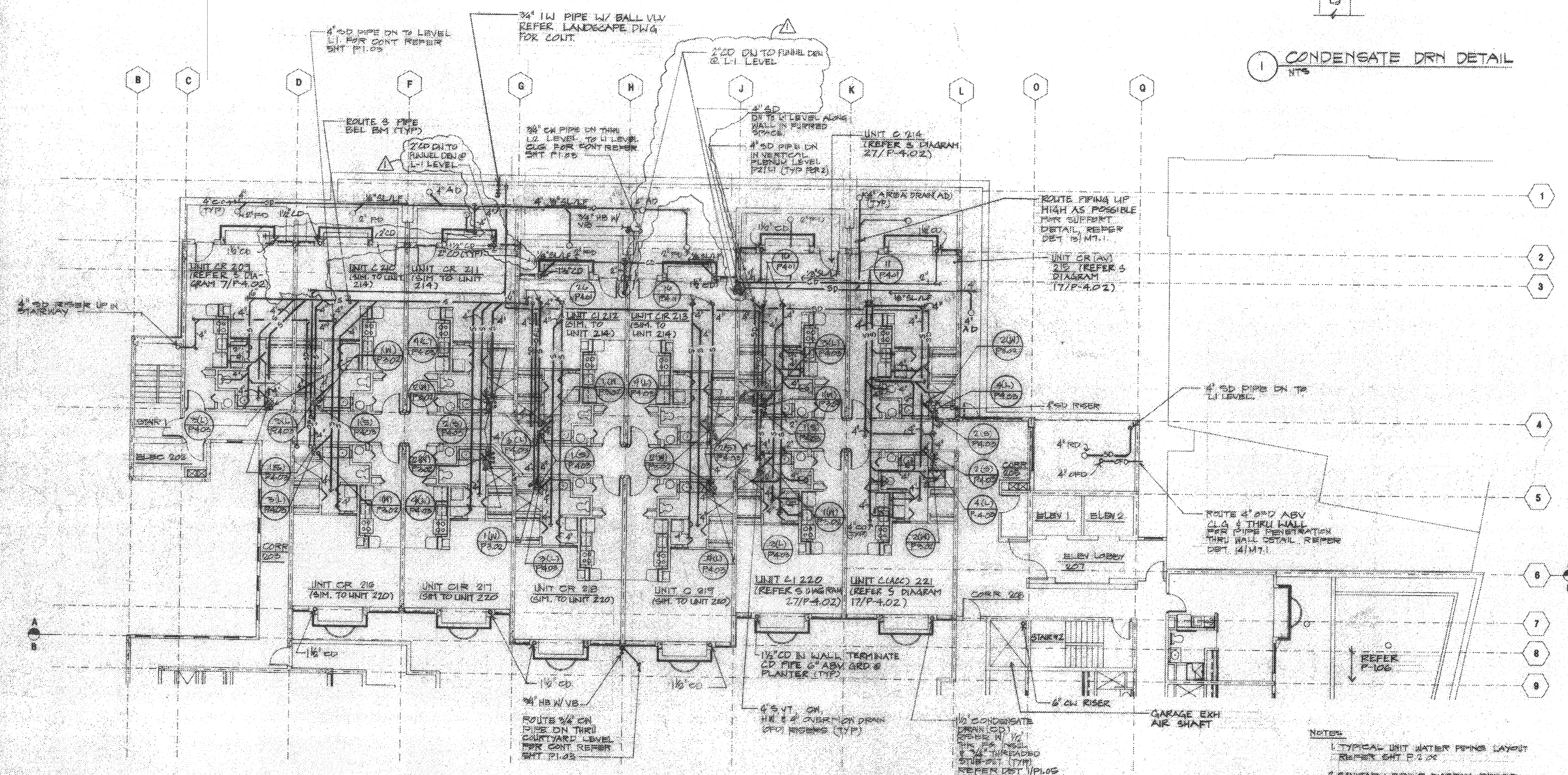
LEVEL L2 PART A
PLUMBING PLAN

 **APPROVAL**
This set of plans and specifications, as shown on the title block, has been reviewed and approved by the Building Department of the City of Honolulu, Hawaii, for the purpose of construction. The approval is given on the condition that the construction shall conform to the Building Code of the City of Honolulu, Hawaii, and to the Building Department's interpretation of the same. The approval is given for the purpose of construction only and does not constitute a warranty of the accuracy or completeness of the plans and specifications. The approval is given for the purpose of construction only and does not constitute a warranty of the accuracy or completeness of the plans and specifications. The approval is given for the purpose of construction only and does not constitute a warranty of the accuracy or completeness of the plans and specifications.

P-105



① CONDENSATE DRN DETAIL



NOTES

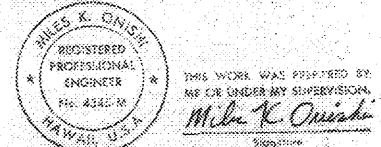
1. TYPICAL UNIT WATER PIPING LAYOUT
REFER SHT P 2.04
2. SANITARY PIPING DIAGRAM REFER
SHT P 2.01 & P 2.02
3. PROVIDE 1" THK FG INSL FOR
3D PIPE ROUTING @ COMMERCIAL
AREA ONLY

LEGEND



30 LEVEL 12 PART A PLUMBING PLAN

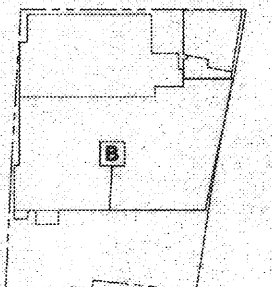
Architecture
Graphic Design
Interior Design
Planning
Programming



Project

HONUAKAHA AFFORDABLE HOUSING COMPLEX

Consultant

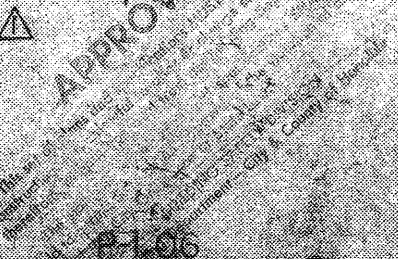


KEY PLAN

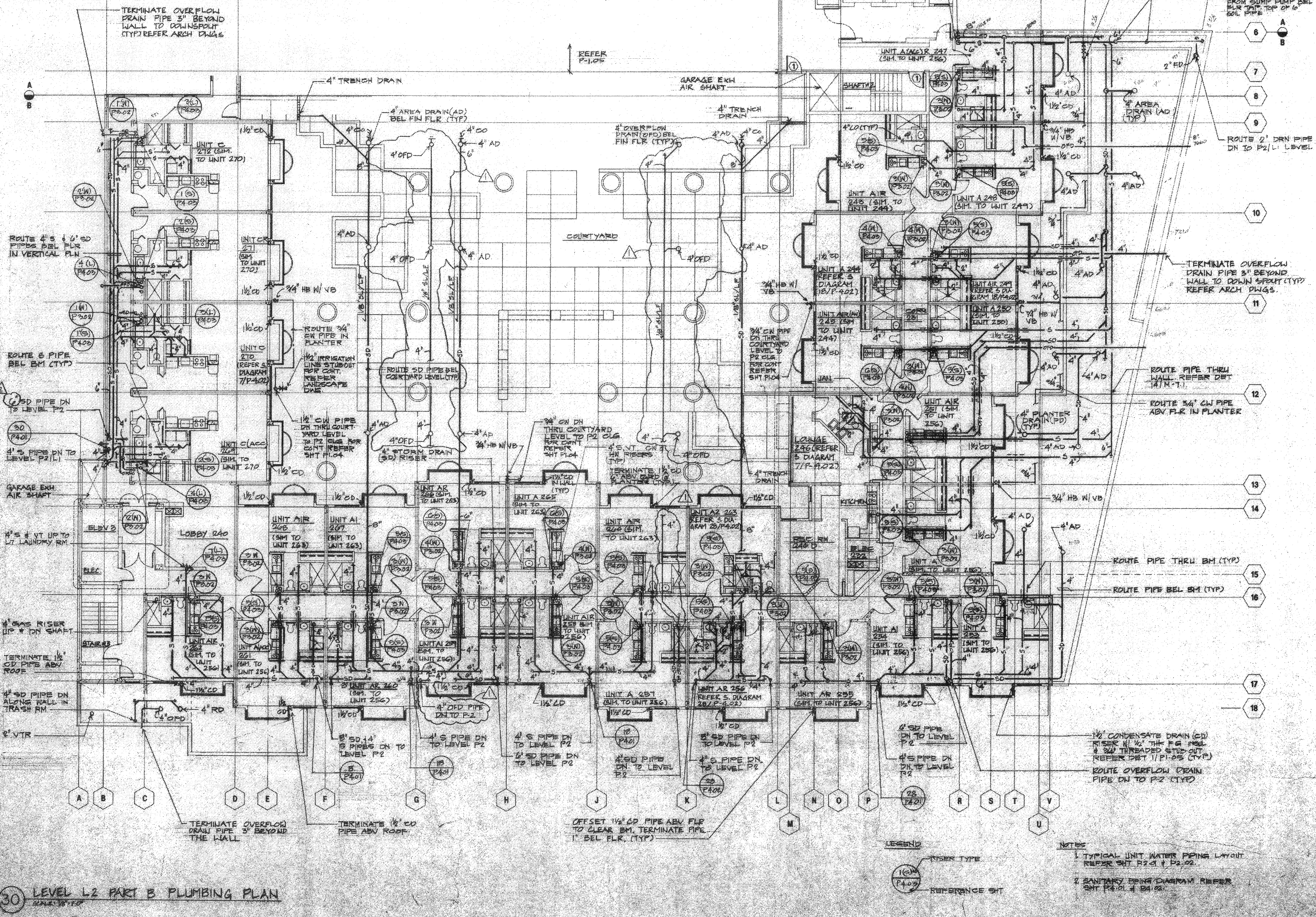
No.	Rev.	Date	Description
1	01	3/30/94	REVISED OVERFLOW DRAIN & PIPING
2	02	4/17/94	REVISED PIPE SIZES
3	03		
4	04		
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1 MARCH 1994

LEVEL L2 PART B PLUMBING PLAN

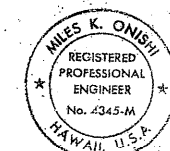


P-1-06



30 LEVEL L2 PART B PLUMBING PLAN

Architecture
Graphic Design
Interior Design
Planning
Programming

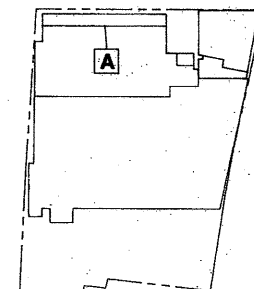


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Mike K. Onishi
Signature

Project

**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

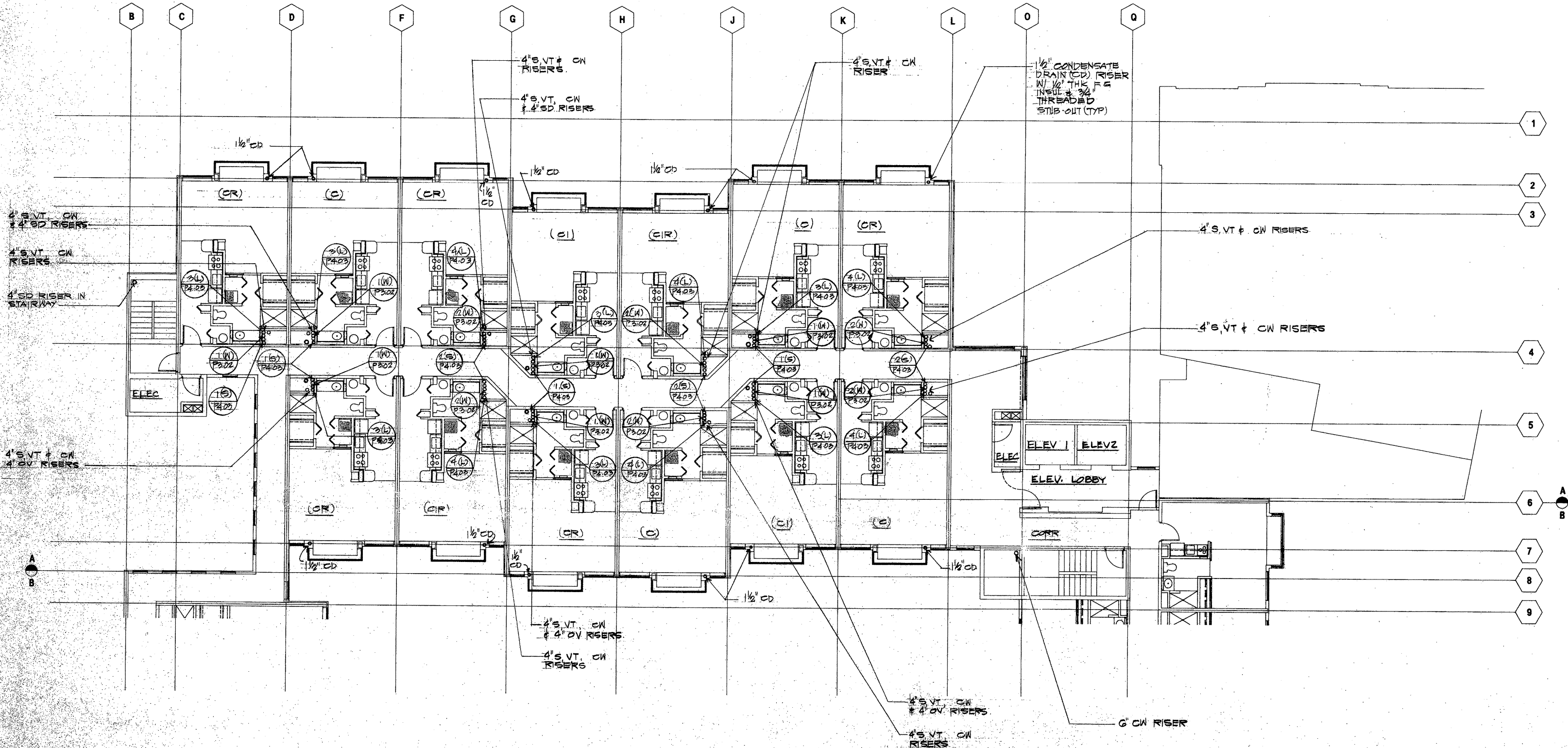
Consultant



KEY PLAN

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APPROVED
1/21/94
LEVEL 1 PLUMBING PLAN
The use of this plan and the information contained herein is subject to the terms and conditions of the contract between the City of Honolulu and the City of Honolulu Department of Planning and Development. This plan is not to be used for any other purpose without the written consent of the City of Honolulu Department of Planning and Development. This plan is not to be used for any other purpose without the written consent of the City of Honolulu Department of Planning and Development.



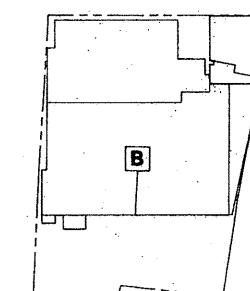
30 LEVEL 1, PART A PLUMBING PLAN
SCALE 1/8\"/>



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Miller K Quinn

HONUAKAHA AFFORDABLE HOUSING COMPLEX

NORTH



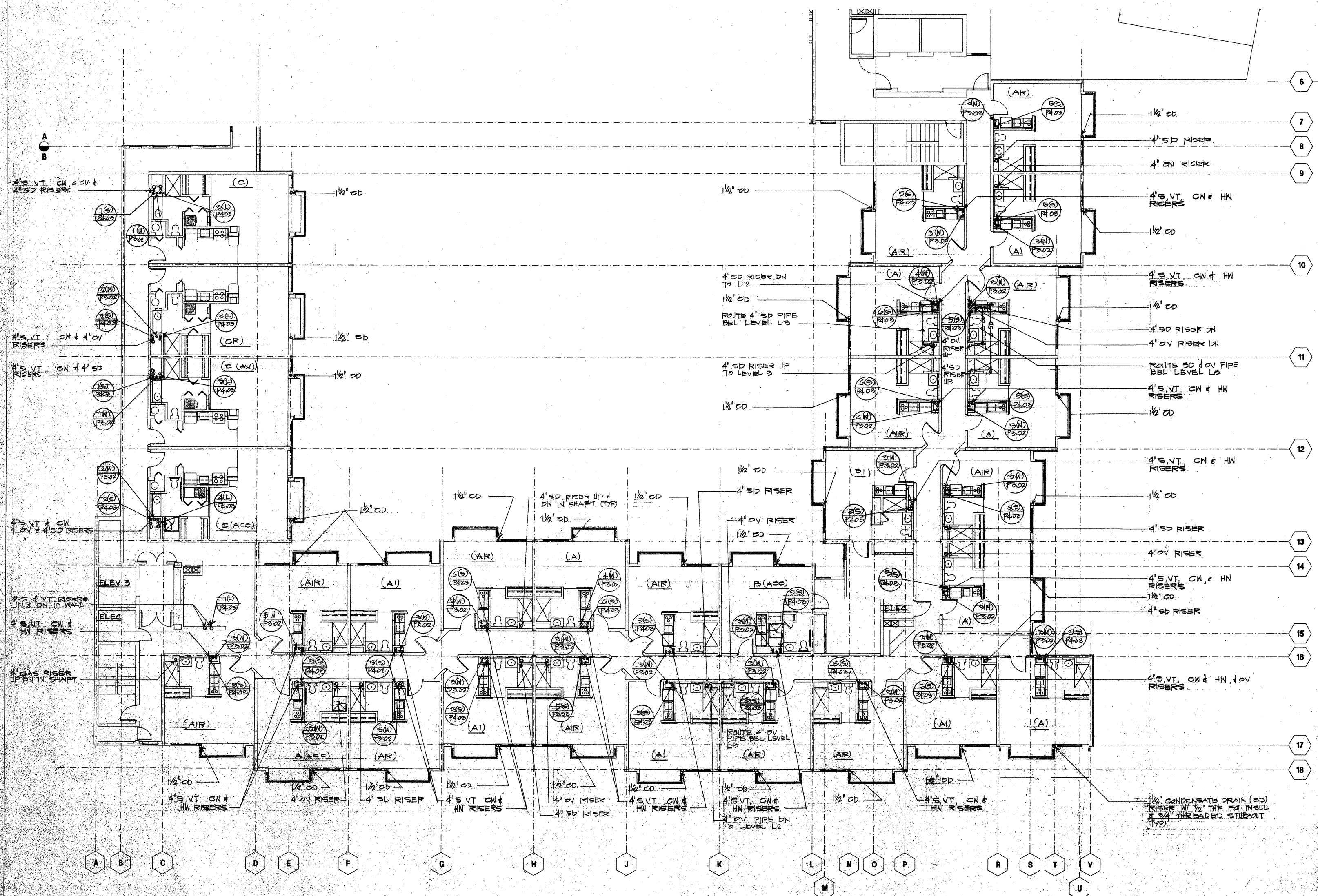
No.	Rev.	Date	Description
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[illegible]

LEVEL L3- PART 3
PLUMBING PLAN

APPROVED

P-109



30 LEVEL L3-L4 PART B PLUMBING PLAN
SCALE: 1/8" = 1'-0"

Architecture
Graphic Design
Interior Design
Planning
Programming

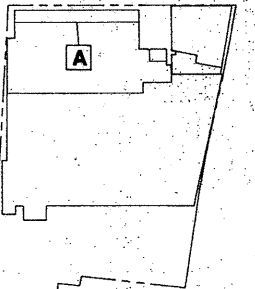


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Miles K. Onishi
Engineer

Project

**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant



KEY PLAN

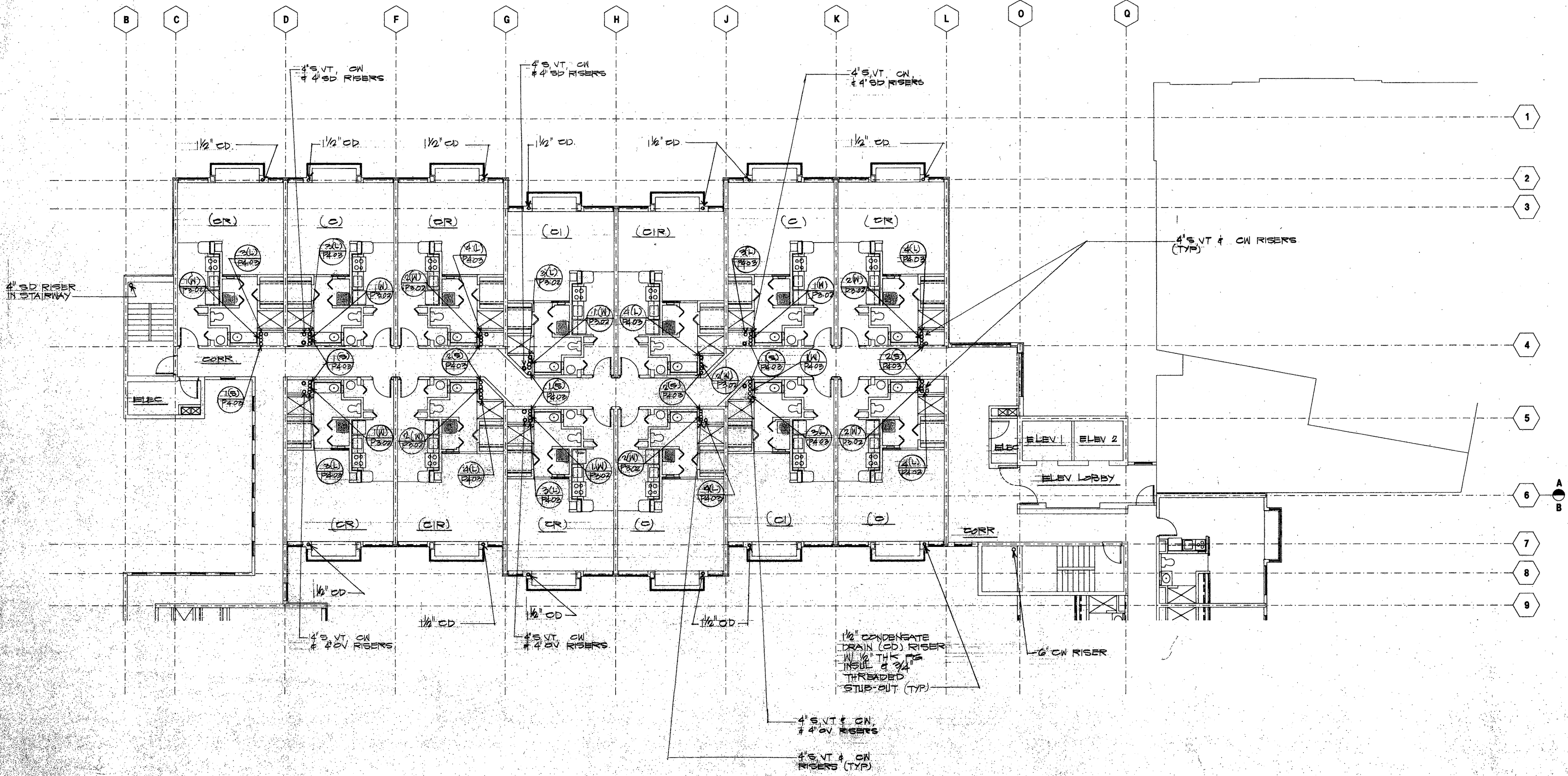
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1/21/94

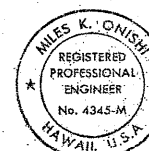
**LEVEL L5 PART A
PLUMBING PLAN**

APPROVED

This set of plans and specifications shall be used for the construction of the project. The contractor shall be responsible for obtaining all necessary permits and for the accuracy of the information provided. The City and County of Honolulu Department of Planning and Permitting shall have the final authority in the interpretation of any provision of these plans and specifications.



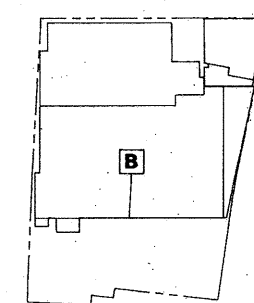
Architecture
Graphic Design
Interior Design
Planning
Programming



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ME OR UNDER MY SUPERVISION.
Miles K. Onishi
Engineer

Project
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant



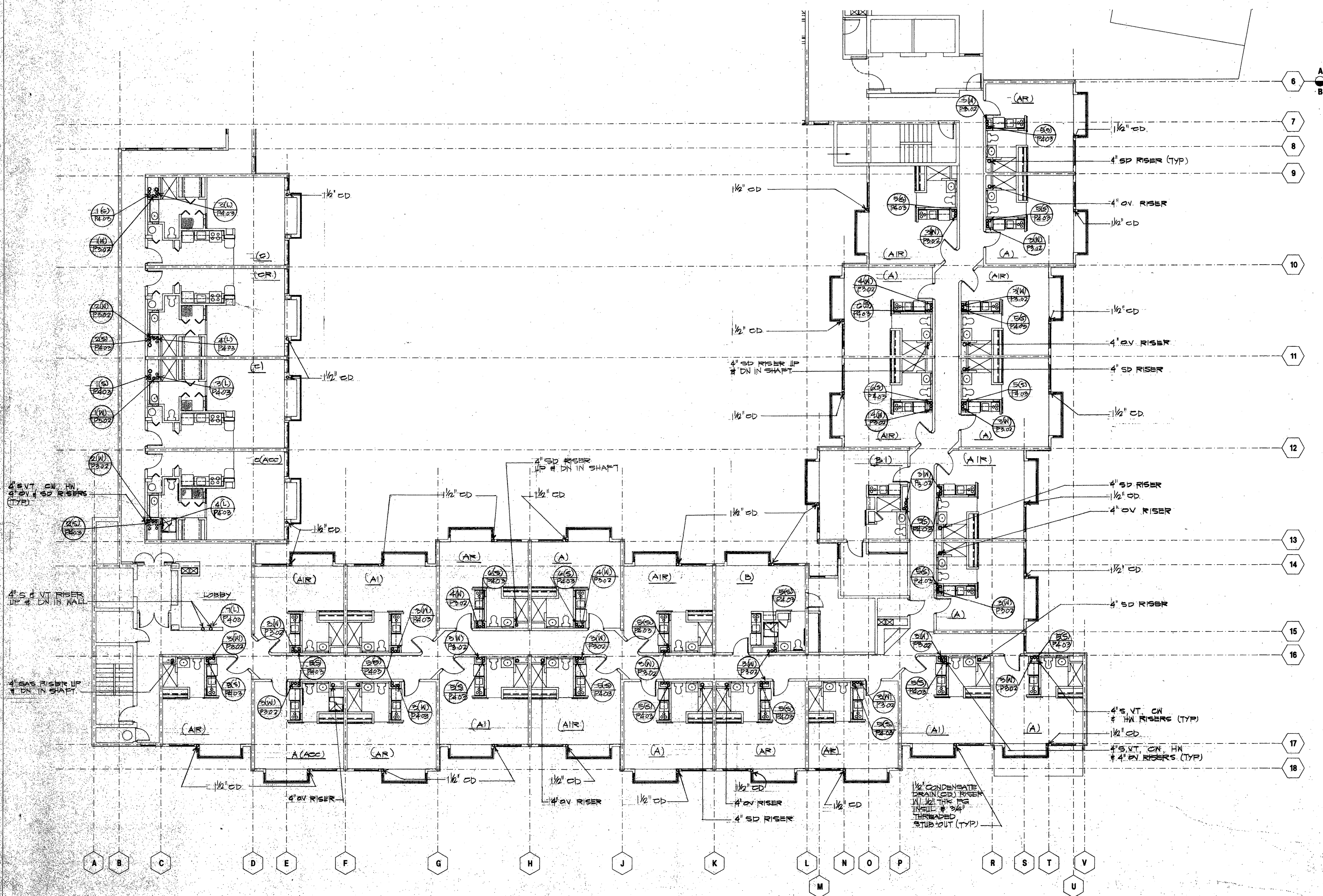
KEY PLAN

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1/21/94

**LEVEL 15 PART B
PLUMBING PLAN**

APPROVED
This plan is a preliminary design and is not to be used for construction without the approval of the City & County of Honolulu. The City & County of Honolulu is not responsible for the accuracy of this plan and its use for construction is at the user's risk. The City & County of Honolulu is not responsible for the accuracy of this plan and its use for construction is at the user's risk. The City & County of Honolulu is not responsible for the accuracy of this plan and its use for construction is at the user's risk.



30 LEVEL 15 PART B PLUMBING PLAN
SCALE 1/8"=1'-0"

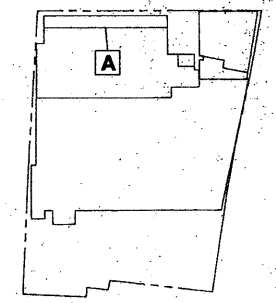
Architecture
Graphic Design
Interior Design
Planning
Programming



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Mrs. K. Onishi

Project
HONUAKAHA AFFORDABLE HOUSING COMPLEX

Consultant



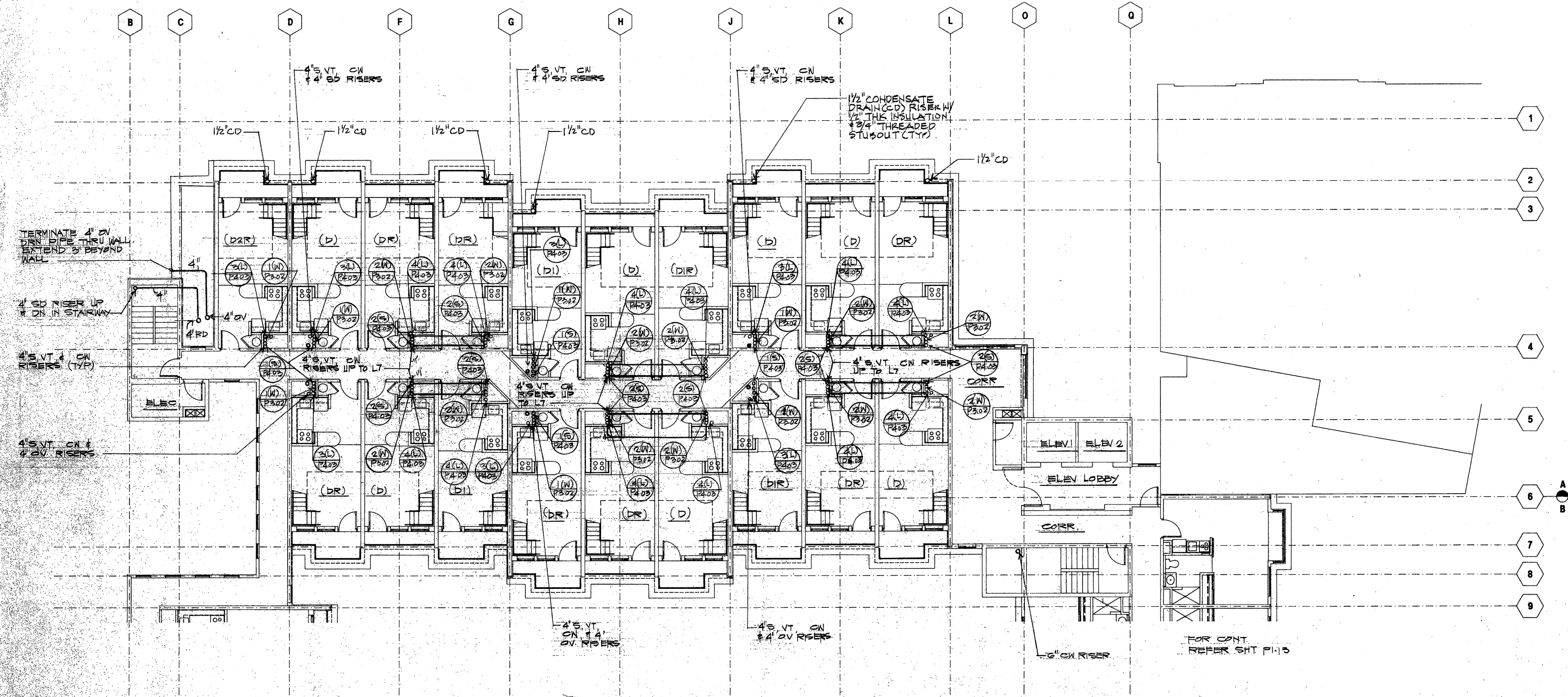
KEY PLAN

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1/21/94

LEVEL LG PART A PLUMBING

APPROVED
This set of plans and specifications MUST be approved by the Building Department. The stamp or seal of the Building Department is required for the plans to be valid. This stamp or seal is on approval of the Building Department. BUILDING DEPARTMENT CITY & COUNTY OF HONOLULU
1/21/94



30 LEVEL LG PART A PLUMBING PLAN
SCALE 1/8" = 1'-0"

Lower

Architecture
Graphic Design
Interior Design
Planning
Programming

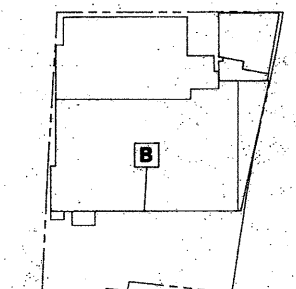


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Miles K. Onishi
Engineer

Project

**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant



KEY PLAN

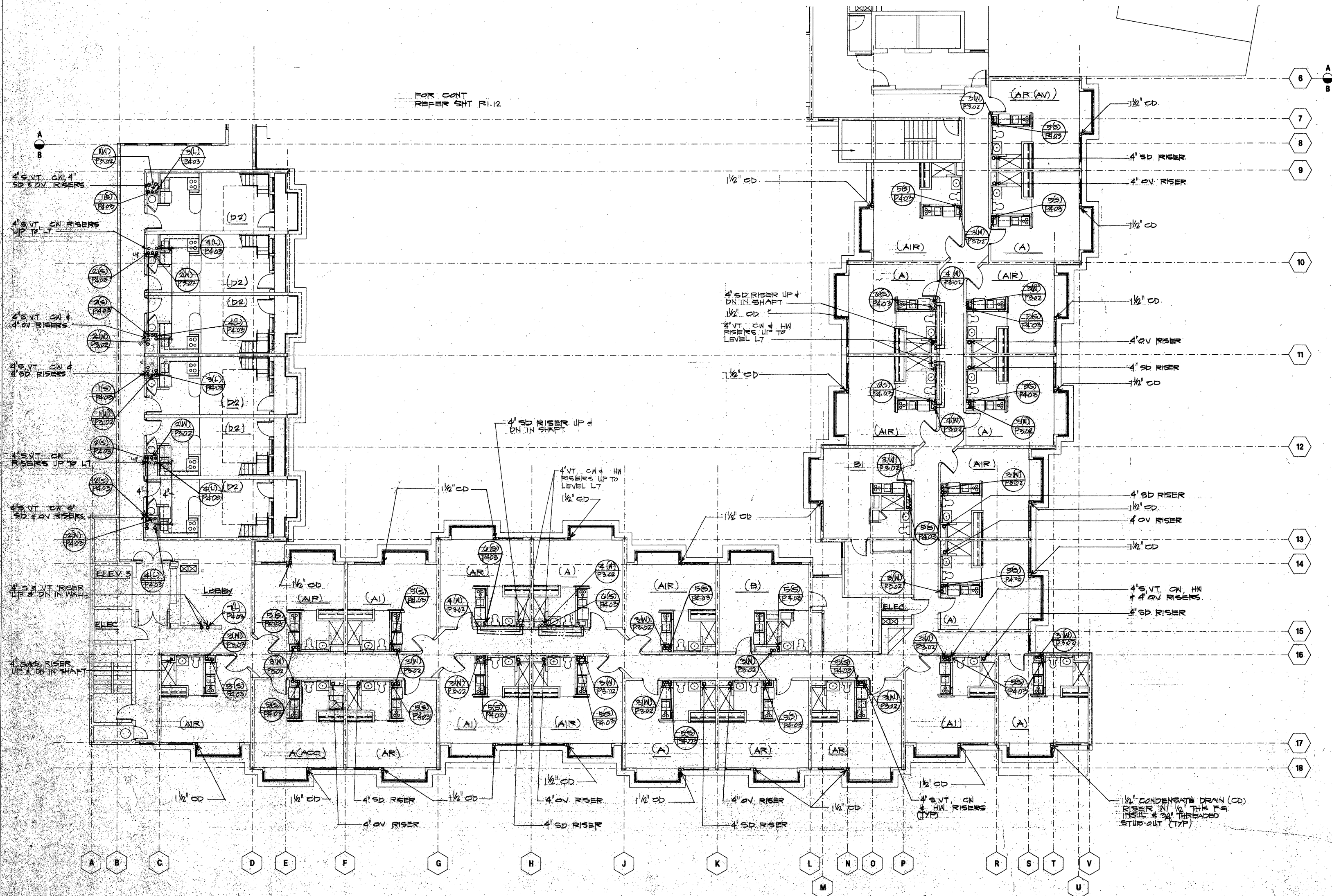
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1/21/74

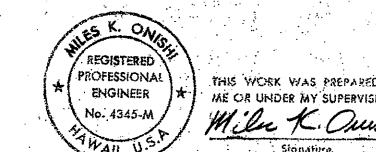
**LEVEL LG PART B
PLUMBING PLAN**

APPROVED

This set of plans and specifications MUST be read in its entirety during construction. It is unlawful to alter or change same, and no device shall be permitted to be in violation of the Building Department. The stamping of this plan and specifications SHALL NOT be valid if any City Ordinance or State Law. BUILDING SAFETY DIVISION, Planning Department City & County of Honolulu.

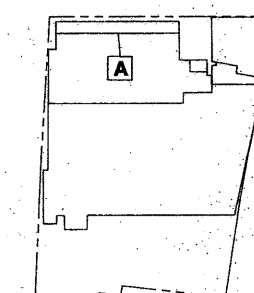


30 LEVEL LG PART B PLUMBING PLAN
SCALE 1/8"=1'-0"



HONUAKAHA AFFORDABLE HOUSING COMPLEX

Consultant



No.	Rev.	Date	Description
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LEVEL L7 PART A
PLUMBING PLANS

LEVEL 17 PART 1
PLUMBING PLANS

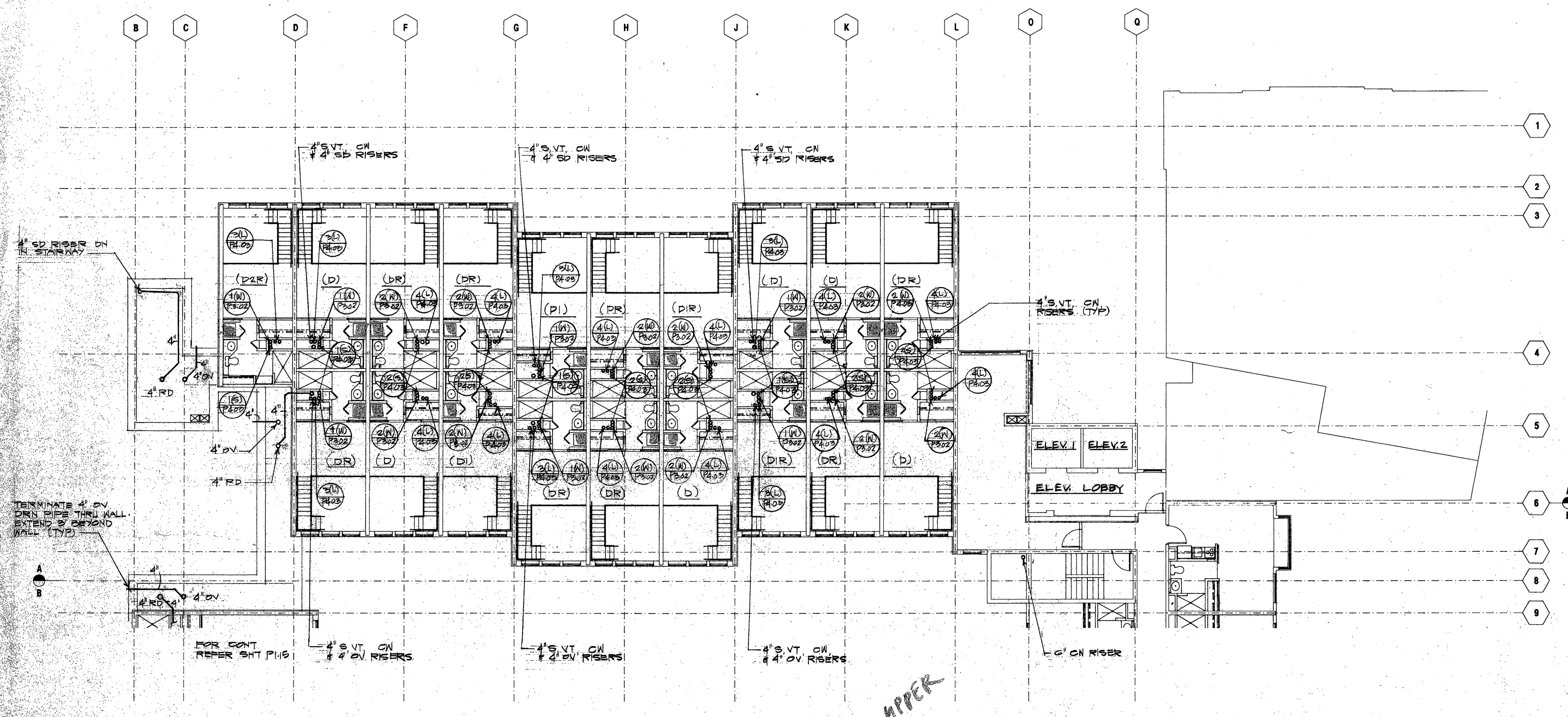
APPROVED

This set of plans and specifications MUST be in full compliance with the building construction. It is unlawful to alter, amend, or to deviate therefrom, without approval from the Building Department.

The remaining of this plan and specifications SHALL NOT be held to permit or to be interpreted as the violation of any provision of any City Ordinance or State Law.

BUILDING SAFETY DIVISION
City & County of Honolulu

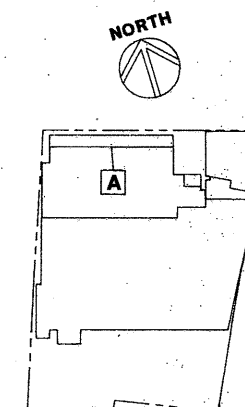
114



30 LEVEL LT PART A PLUMBING PLAN
SCALE: 1/8" = 1'-0"

Project

Consultant



No.	Rev.	Date	Description
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[illegible]

LEVEL L7 PART B
PLUMBING PLAN

APPROVED

This set of plans and specifications MUST be used to construct the building. No changes or alterations are allowed to these plans and specifications. Any changes or alterations must be approved by the Building Department. The Building Department is not responsible for the construction of the building.

BUILDING SAFETY DIVISION

City and County of Honolulu

Permit No. 1945

Architecture
Graphic Design
Interior Design
Planning
Programming



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Miles K. Onishi

Project

**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

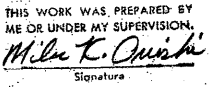
Consultant

KEY PLAN

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- NOTES:**
1. WATER PIPING DIAGRAM
REFER SHT P-117
 2. REFER DETAIL 11-N-71 FOR
WATER PIPE W/ DUCTWORK
PENETRATING THRU ROOF

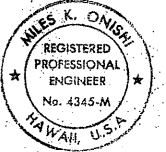
APPROVED
This set of drawings is to be used for construction of the project shown on the drawings. No other drawings shall be used without the approval of the Building Department. The stamp of the Building Department shall be placed on the drawings. This set of drawings shall be held to the same standard as any other drawings of the Building Department. Building Department
COUNTY OF HONOLULU



HONUAKAHA AFFORDABLE HOUSING COMPLEX

KEY PLAN

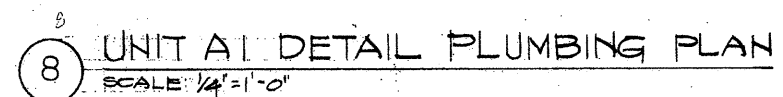
[illegible][illegible]



15. WORK WAS PREPARED BY
OR UNDER MY SUPERVISION.
Walter K. Olszewski
Signature

HONUAKAHA AFFORDABLE HOUSING COMPLEX

Consultant



No.	Rev.	Date	Description
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[illegible]

UNIT TYPE A, A (ACC)
A1, & A2 BUILDINGS
DETAIL PLAN

APPROVAL

This set of plans and specifications submitted for approval shall remain valid for construction, if it is unaltered or changes made are approved by the Department therefrom without express from this building Department.

The stamping of this plan and specifications SHALL NOT be held to permit any other alterations or modifications without the approval of the Building Department - City & County of Honolulu.

B-201



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION,
Michael K. Oviatt
Signature

HONUAKAHA AFFORDABLE HOUSING COMPLEX

Consultant

8 UNIT B DETAIL PLUMBING PLAN
SCALE: 1/4" = 1'-0"

10 UNIT C DETAIL PLUMBING PLAN
SCALE: 1/4" = 1'-0"

No.	Rev.	Date	Description
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[illegible]

1/21/94

UNIT TYPE B B (ACC)
B1, C
DETACHED REUMBING FLA

APPROVED

This set of plans and specifications for construction, it is unlawful to alter or change thereon, without approval from the building department.

The granting of this plan and specification hold to permit or to be in compliance of the provisions of any City Ordinance or State Law.

BUILDING SAFETY DIVISION
City and County of Honolulu

Sheets **P-202**

Sheet P-202

Architecture
Graphic Design
Interior Design
Planning
Programming

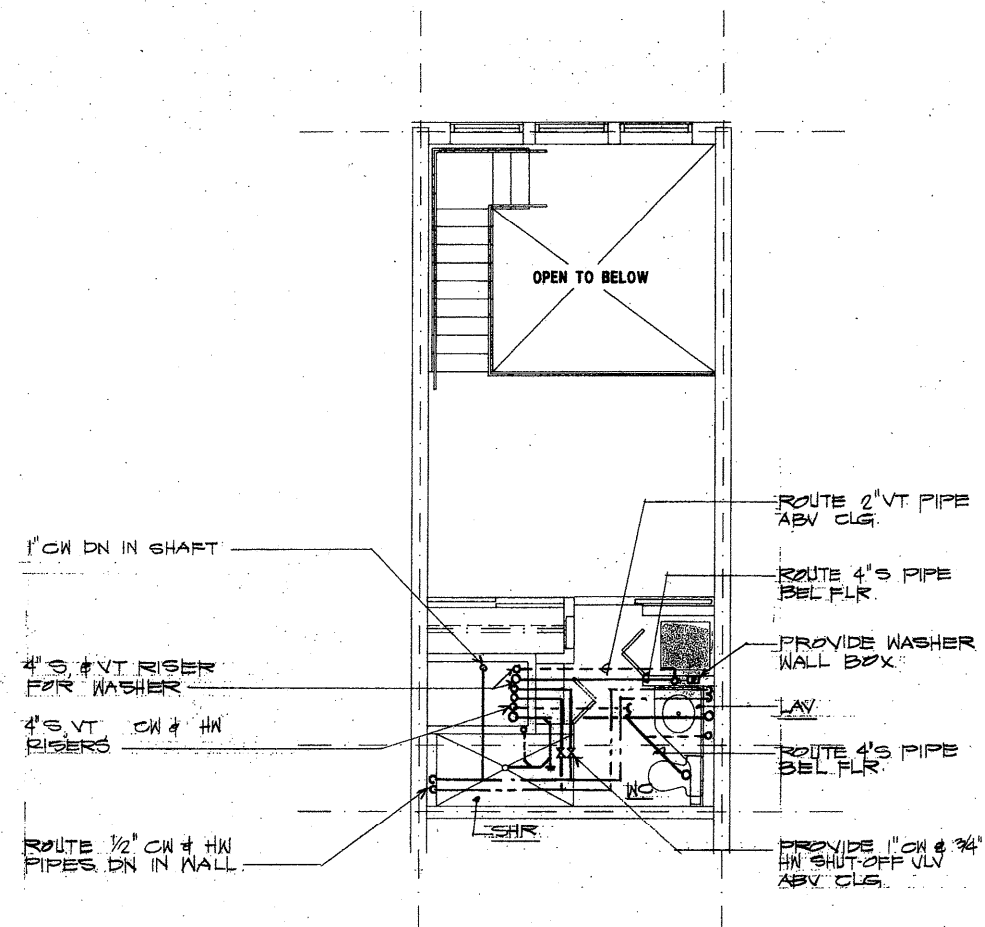


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ME OR UNDER MY SUPERVISION.
Miles K. Onishi
SIGNATURE

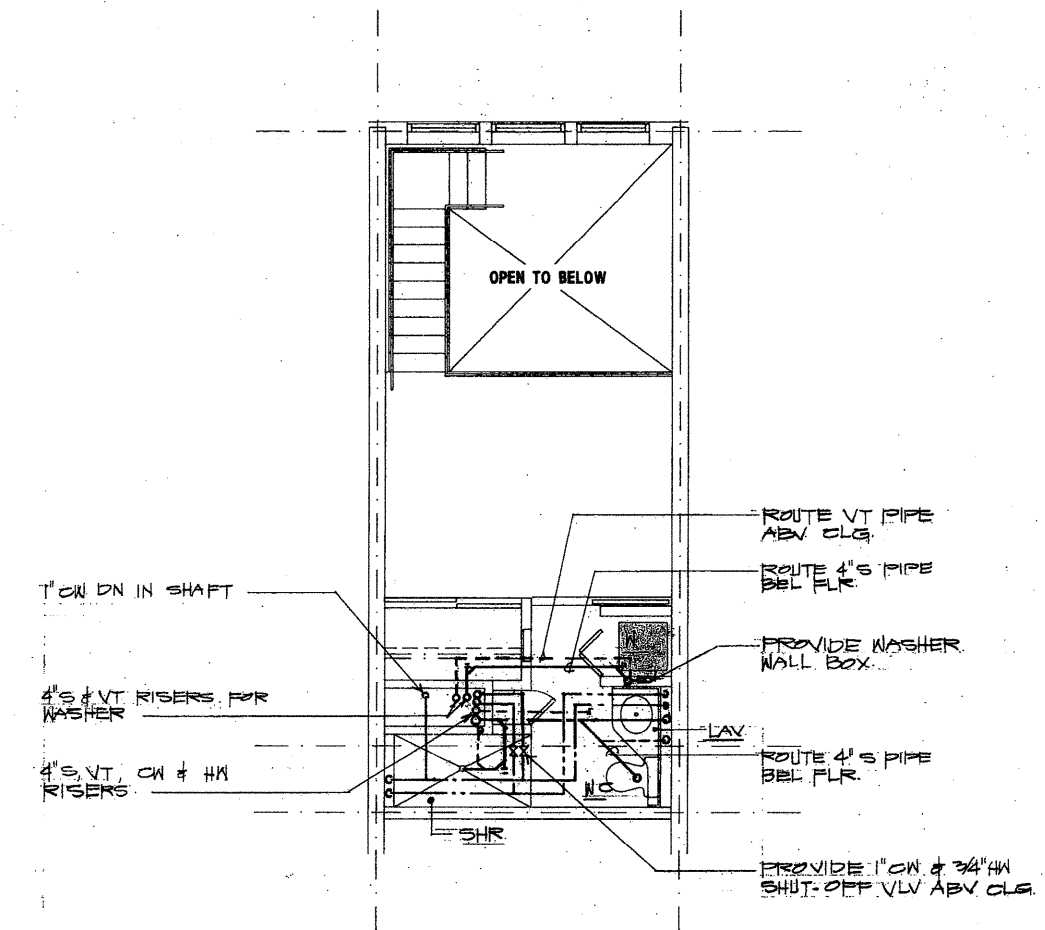
Project

**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

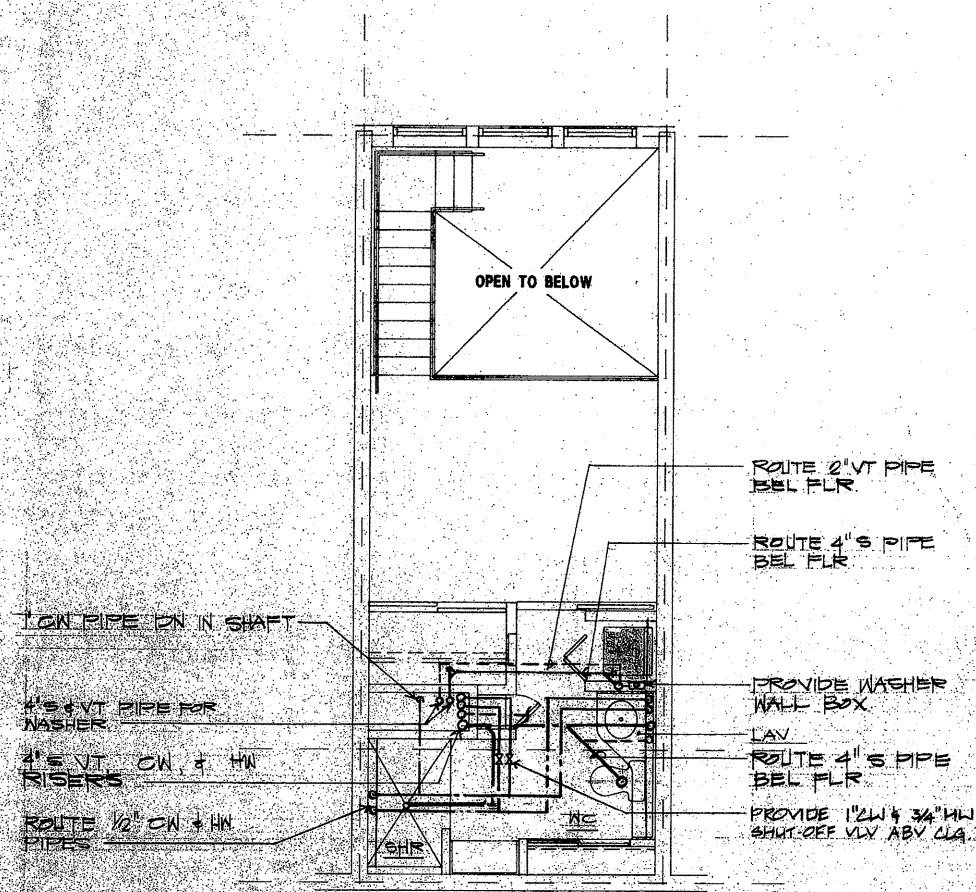
Consultant



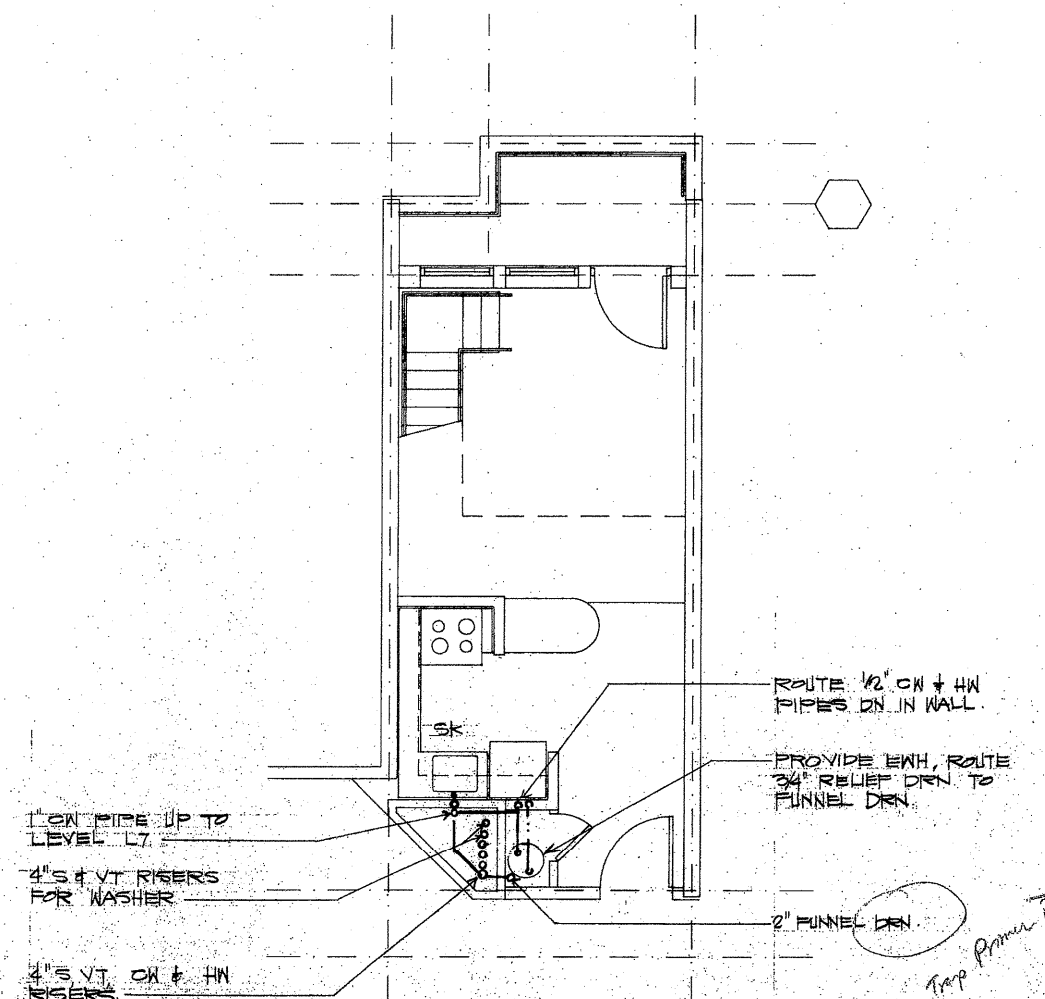
18 UNIT D1 DETAIL PLUMBING PLAN (UPPER)
SCALE: 1/4" = 1'-0"



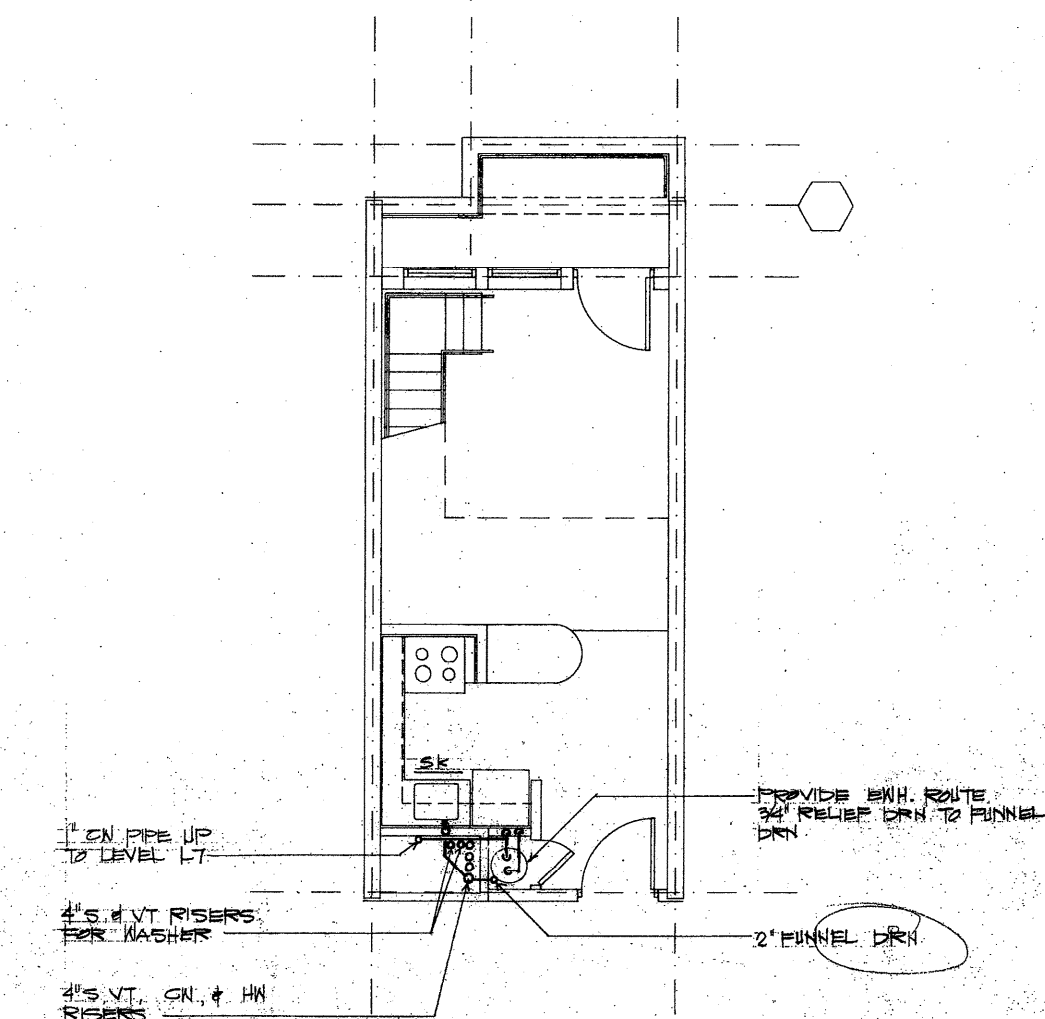
8 UNIT D DETAIL PLUMBING PLAN (UPPER)
SCALE: 1/4" = 1'-0"



30 UNIT D2 DETAIL PLUMBING PLAN (UPPER)
SCALE: 1/4" = 1'-0"



20 UNIT D1 DETAIL PLUMBING PLAN (LOWER)
SCALE: 1/4" = 1'-0"



10 UNIT D, D2 DETAIL PLUMBING PLAN (LOWER)
SCALE: 1/4" = 1'-0"

KEY PLAN

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1/21/94

UNIT TYPE D, D2
(LOWER & UPPER)

APPROVED
The use of these drawings shall be at the user's sole risk. The user shall be responsible for obtaining all necessary permits and for the accuracy of the information provided. The user shall not be held responsible for any errors or omissions. The user shall not be held responsible for any damages or losses resulting from the use of these drawings. The user shall not be held responsible for any claims or liabilities resulting from the use of these drawings. The user shall not be held responsible for any claims or liabilities resulting from the use of these drawings.

P-203

Architecture
Graphic Design
Interior Design
Planning
Programming



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION,
M. K. O'Neil
Signature

Project
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

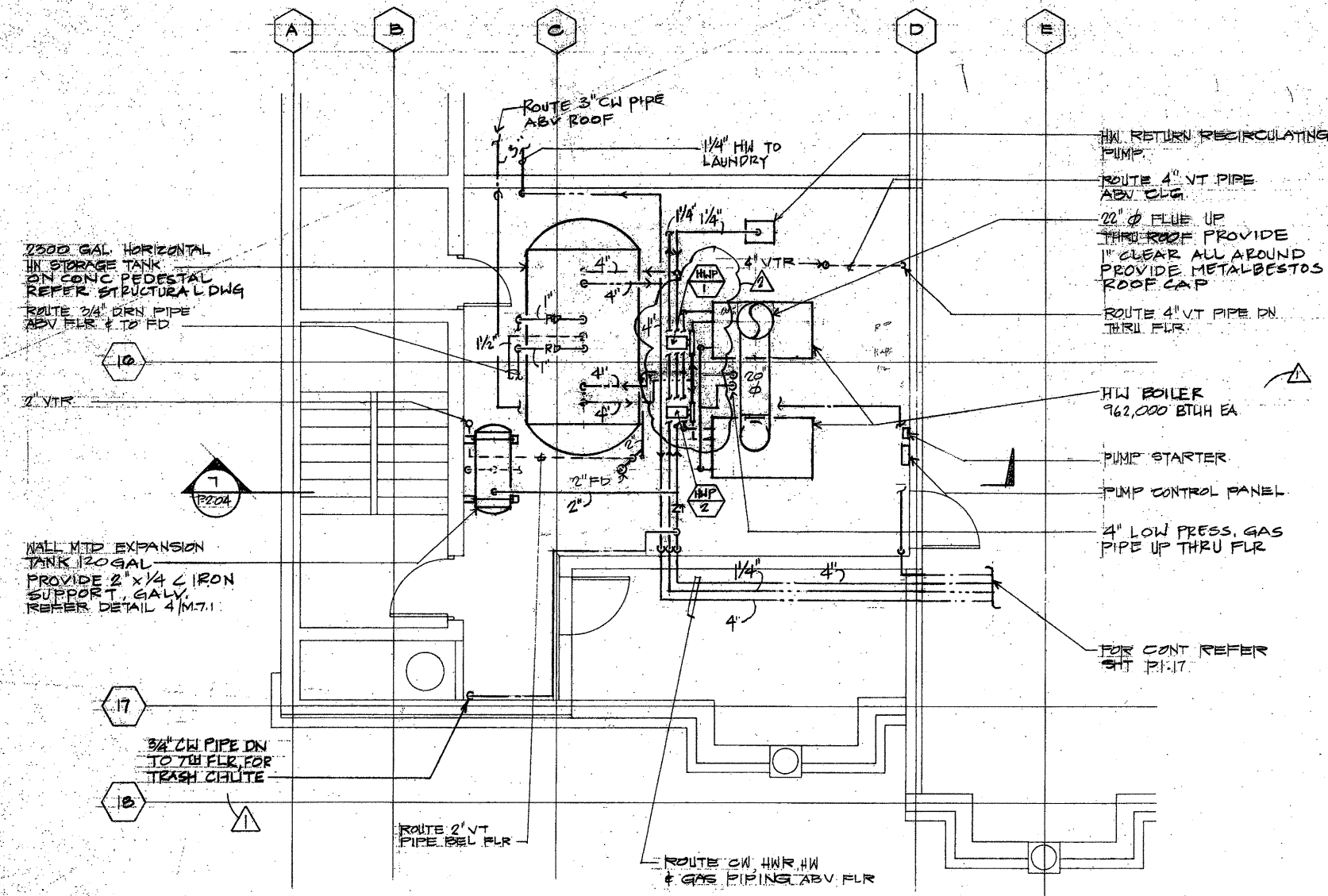
Consultant

KEY PLAN

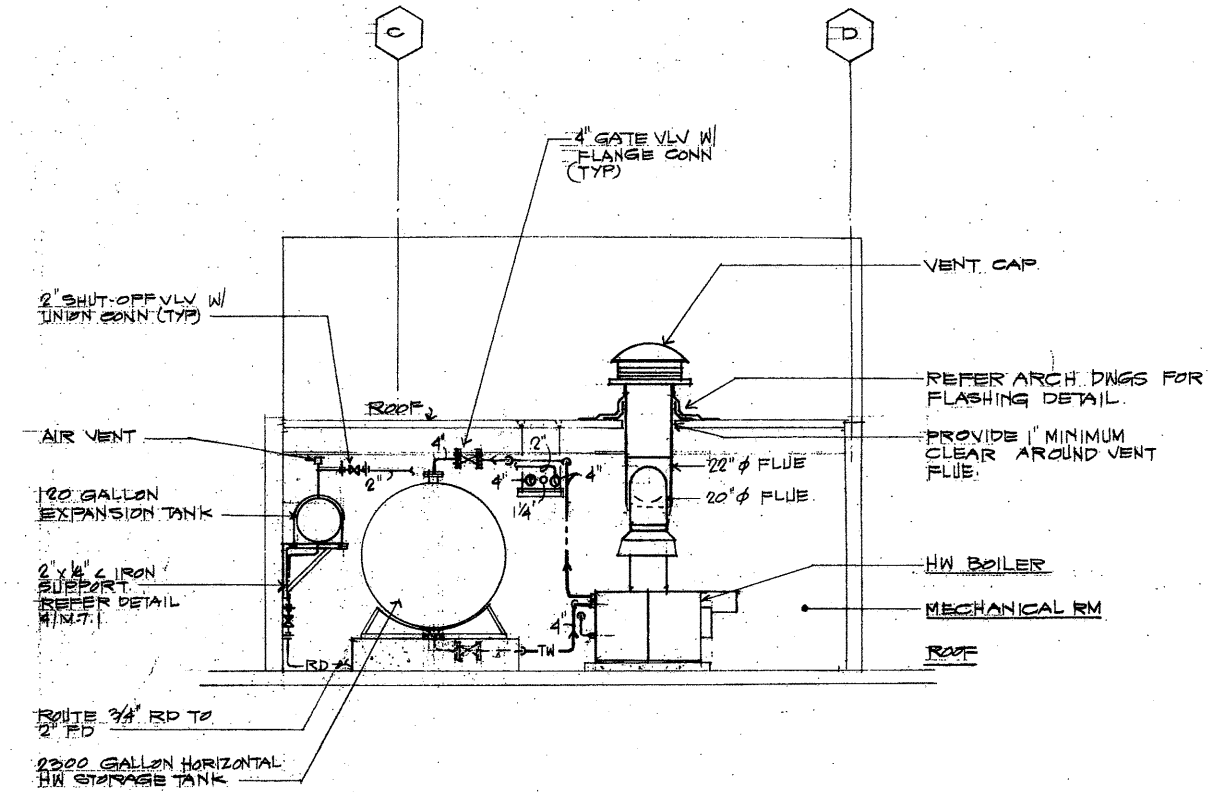
No.	Rev.	Date	Description
AP2	5/30/94		ADDED 1800 BTUH FOR HW BOILER
AP3			ADDED HW RECIRCULATING PUMP

**BOILER RM PLUMBING
DETAIL PLAN**

APPROVED
These set of plans and specifications MUST be approved by the Building Department, City and County of Honolulu, Hawaii, before construction is begun. If any portion of these plans or specifications are not approved, the entire set of plans and specifications shall be void. The Building Department, City and County of Honolulu, Hawaii, is not responsible for the accuracy of the information provided herein. The Building Department, City and County of Honolulu, Hawaii, is not responsible for the accuracy of the information provided herein.



28 BOILER RM PLUMBING DETAIL PLAN
SCALE: 1/4" = 1'-0"



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

EQUIPMENT SCHEDULE

DOMESTIC BOOSTER PUMP

3-PUMP SYSTEM. PUMP SHALL BE CONSTANT SPEED, SINGLE STAGE END SUCTION, TOTAL SYSTEM FLOW OF 390 GPM @ 102 TDH
PUMP #1: 78 GPM @ 102 FEET HEAD 5 HP, 108V/3Ø/60HZ 3500 RPM
PUMP #2: 156 GPM @ 102 FEET HEAD 7 1/2 HP, 108V/3Ø/60HZ 3500 RPM
PUMP #3: 156 GPM @ 102 FEET HEAD 7 1/2 HP, 108V/3Ø/60HZ 3500 RPM
TEFC MOTORS WITH 1.15 SAFETY FACTOR
SYNCRFLO MODEL 5TC5H75H75GH OR APPROVED EQUAL

HOT WATER RETURN RECIRCULATING PUMP

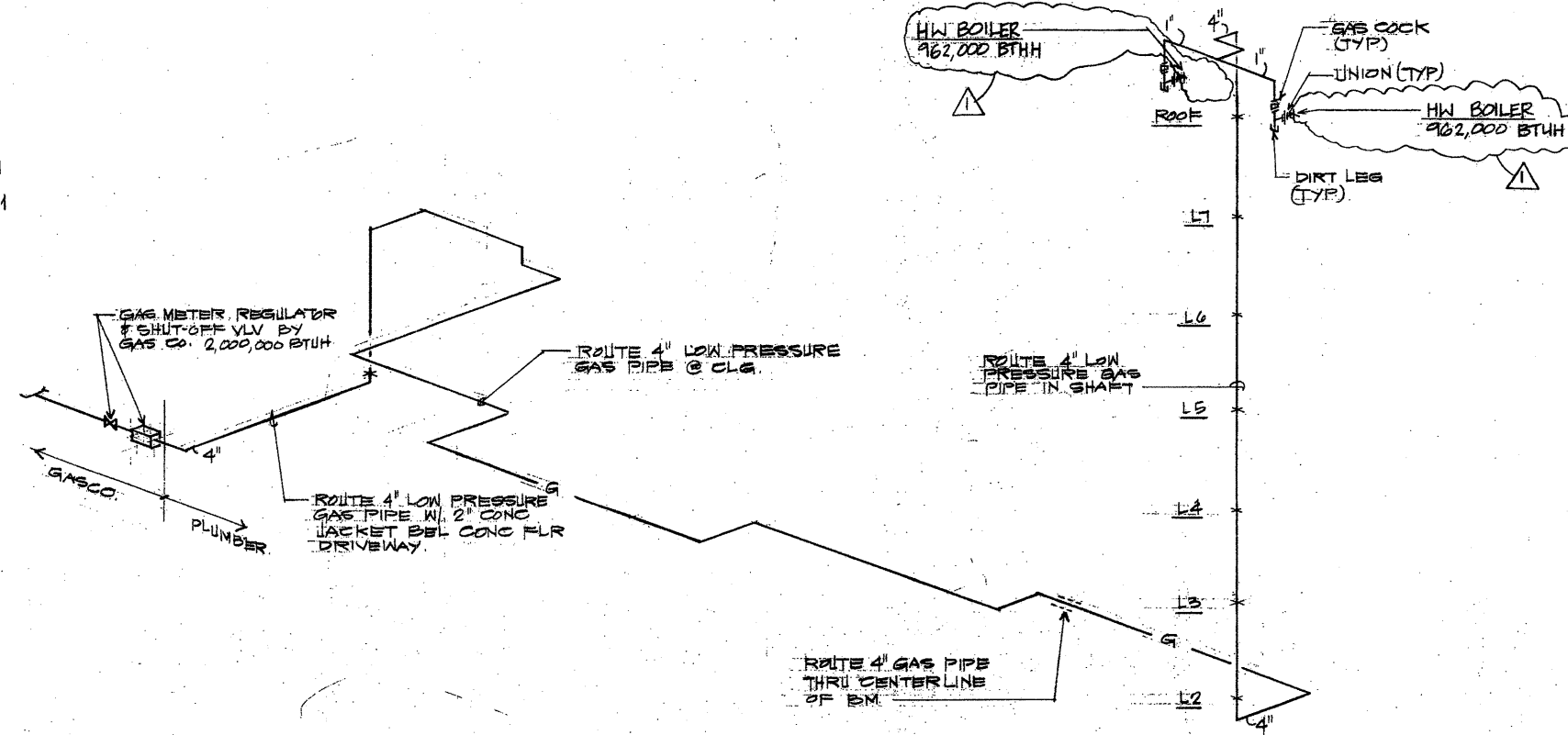
CENTRIFUGAL CLOSE COUPLED END SUCTION
10 GPM @ 20 TDH, 1750 RPM, 1/4 HP, 115V/1Ø/60HZ
TACO 1260-B OR APPROVED EQUAL

SUMP PUMP

SUBMERSIBLE, HEAVY CAST IRON HOUSING & MOTOR CAP
CAST IRON VOLUTE, BRONZE IMPELLER, STAINLESS STEEL SHAFT AND AUTOMATIC RESET OVERLOAD PROTECTION, 5 GPM @ 20 FT HEAD, 1750 RPM, 1/3 HP, 115V/1Ø/60HZ
HYDROMATIC MODEL OSP 33 OR APPROVED EQUAL

IN-LINE HOT WATER RECIRCULATING PUMP

ALL BRONZE CONSTRUCTION, 175 PSI, 250°F.
51 GPM @ 18 TDH, 1750 RPM, 1/2 HP
115V/1Ø/60HZ TACO 1635 OR APPROVED EQUAL. INTERLOCK TO BOILER CONTROLS.



20 GAS PIPING DIAGRAM
NTS

Project

HONUAKAHA AFFORDABLE HOUSING COMPLEX

Consultant

KEY PLAN

[illegible]

MARCH 1994

MAIN WATER PIRING
DIAGRAM

A

This diagram is for the use of the...

The City of...

The County of...

The Building Safety Division...

The Planning Department...

Architecture
Graphic Design
Interior Design
Planning
Programming

MILES K. ONISHI
REGISTERED
PROFESSIONAL
ENGINEER
No. 4245-M
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION,
Miles K. Onishi
Signature

Project
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

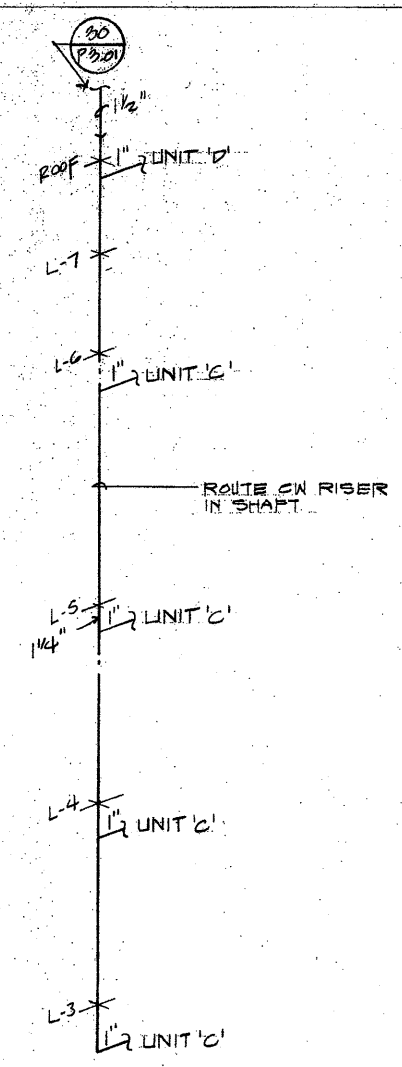
Consultant

KEY PLAN

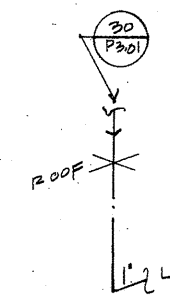
No.	Rev.	Date	Description
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1 MARCH 1994
WATER DIAGRAM 15

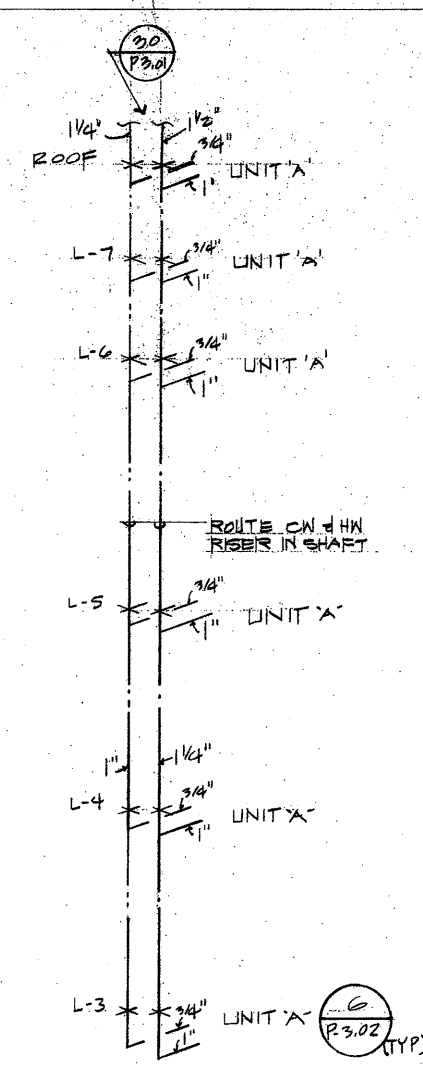
APPROVED
This set of plans and specifications shall be used for the building construction. It is not to be altered or modified in any way without the written approval of the City and County of Honolulu. The City and County of Honolulu shall not be responsible for any errors or omissions in these plans and specifications. The City and County of Honolulu shall not be responsible for any errors or omissions in these plans and specifications. The City and County of Honolulu shall not be responsible for any errors or omissions in these plans and specifications.



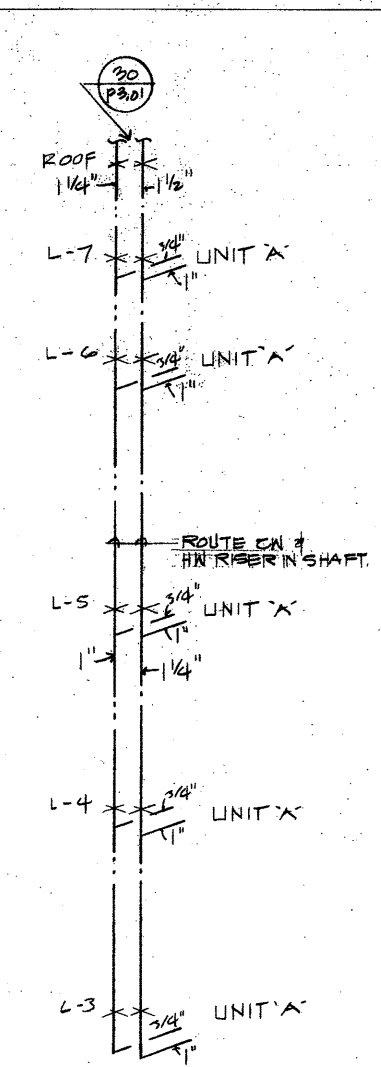
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P-3.02 NTS



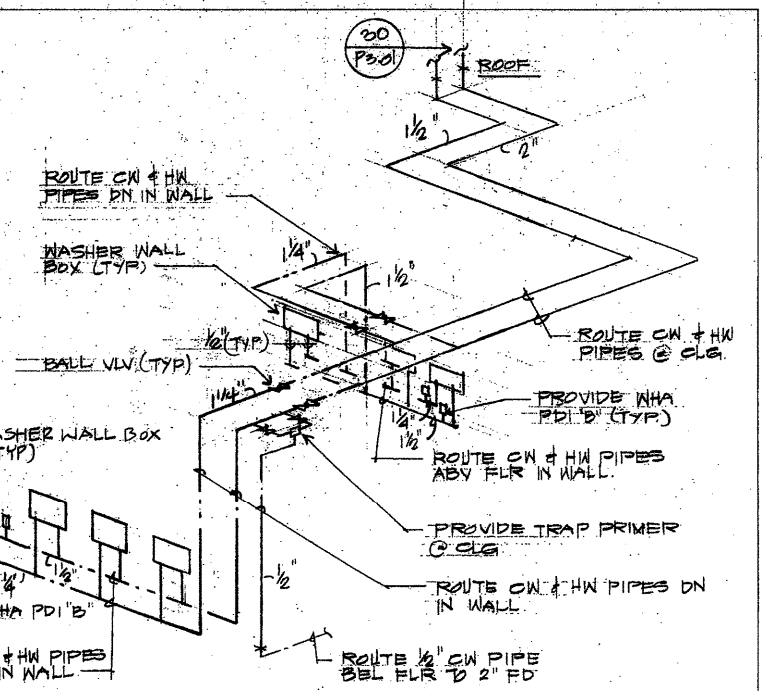
2W CN RISER
P-3.02 NTS



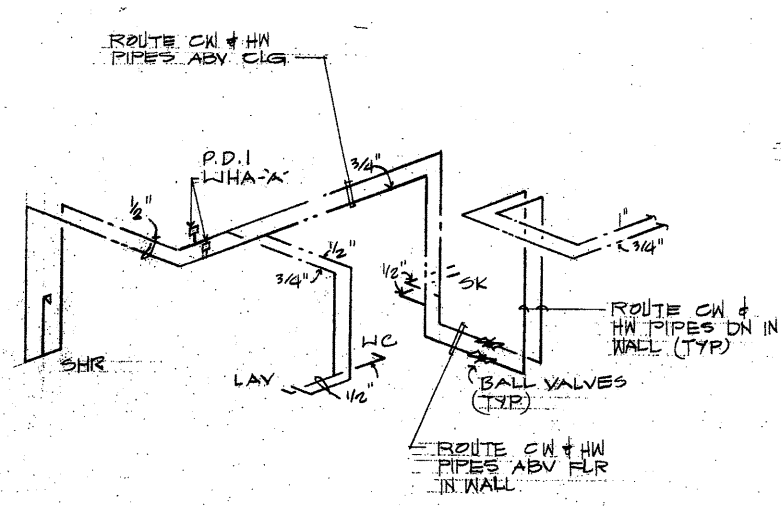
3W CN & HW RISER
P-3.02 NTS



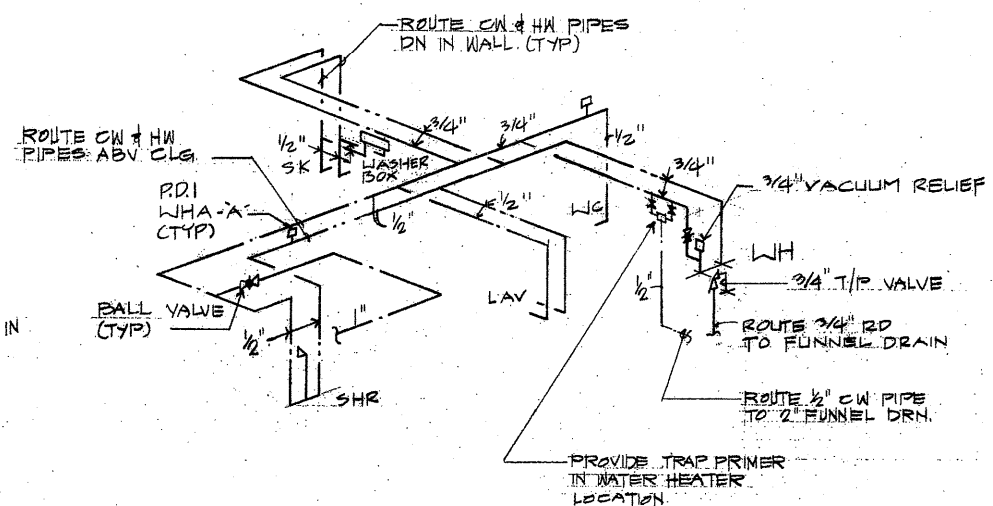
4W CN & HW RISER
P-3.02 NTS



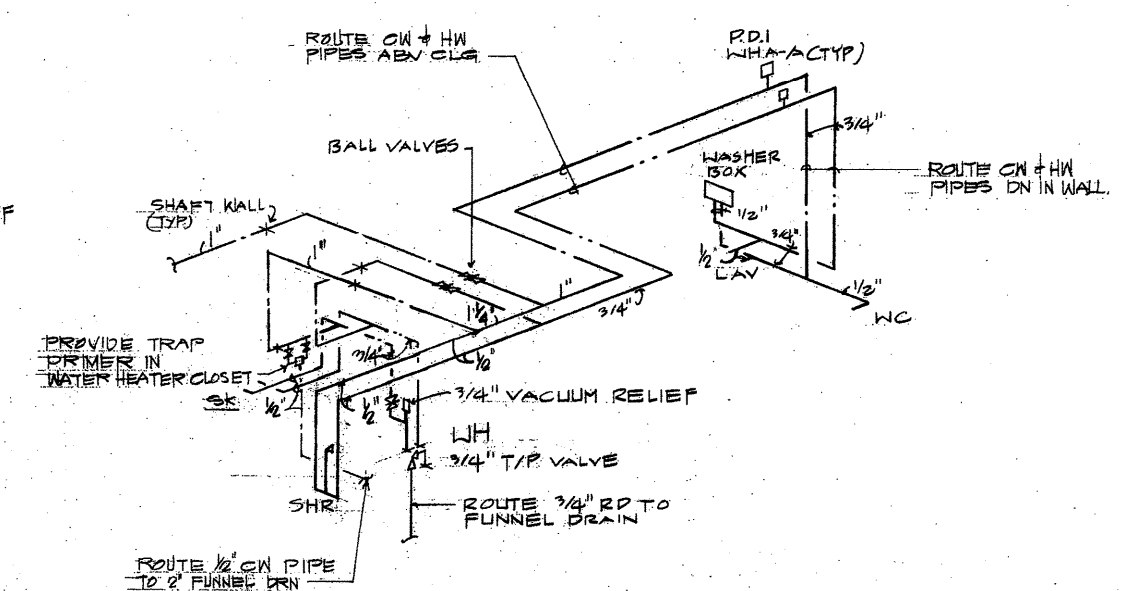
5W CN & HW @ LAUNDRY ROOM
P-3.02



6 UNIT A'-WATER DIAGRAM
P-3.02 NTS
UNIT B' SIMILAR



7 UNIT C'-WATER DIAGRAM
P-3.02 NTS



8 UNIT D'-WATER DIAGRAM
P-3.02 NTS

Architecture
Graphic Design
Interior Design
Planning
Programming

MILES K. ONISEL
REGISTERED
PROFESSIONAL
ENGINEER
No. 4345-H
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Miles K. Onisel
Signature

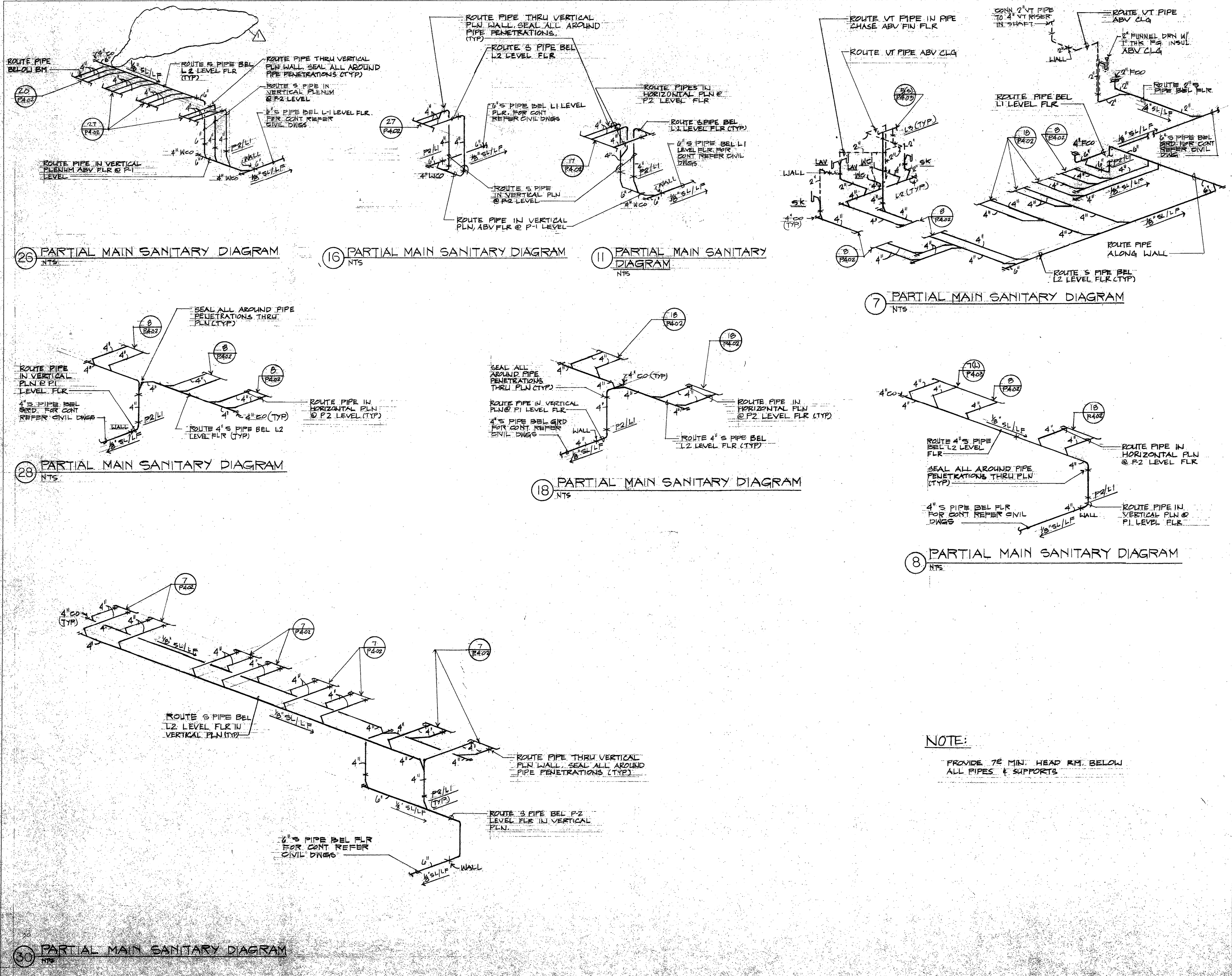
Project
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant

KEY PLAN

No.	Rev.	Date	Description
1	1	3/30/94	REVISED 2D LOCATION

APPROVED
1 MARCH 1994
**PARTIAL MAIN SANITARY
DIAGRAM**
This set of plans and specifications shall be used in the construction of the project. It is the responsibility of the contractor to ensure that the construction is in accordance with the plans and specifications. The contractor shall be responsible for obtaining all necessary permits and approvals from the City and County of Honolulu. The contractor shall be responsible for obtaining all necessary permits and approvals from the City and County of Honolulu. The contractor shall be responsible for obtaining all necessary permits and approvals from the City and County of Honolulu.



Architecture
Graphic Design
Interior Design
Planning
Programming


 THIS WORK WAS PREPARED BY
 ME OR UNDER MY SUPERVISION.
Miles K. Onishi
 Signature

Project

HONUAKAHA AFFORDABLE HOUSING COMPLEX

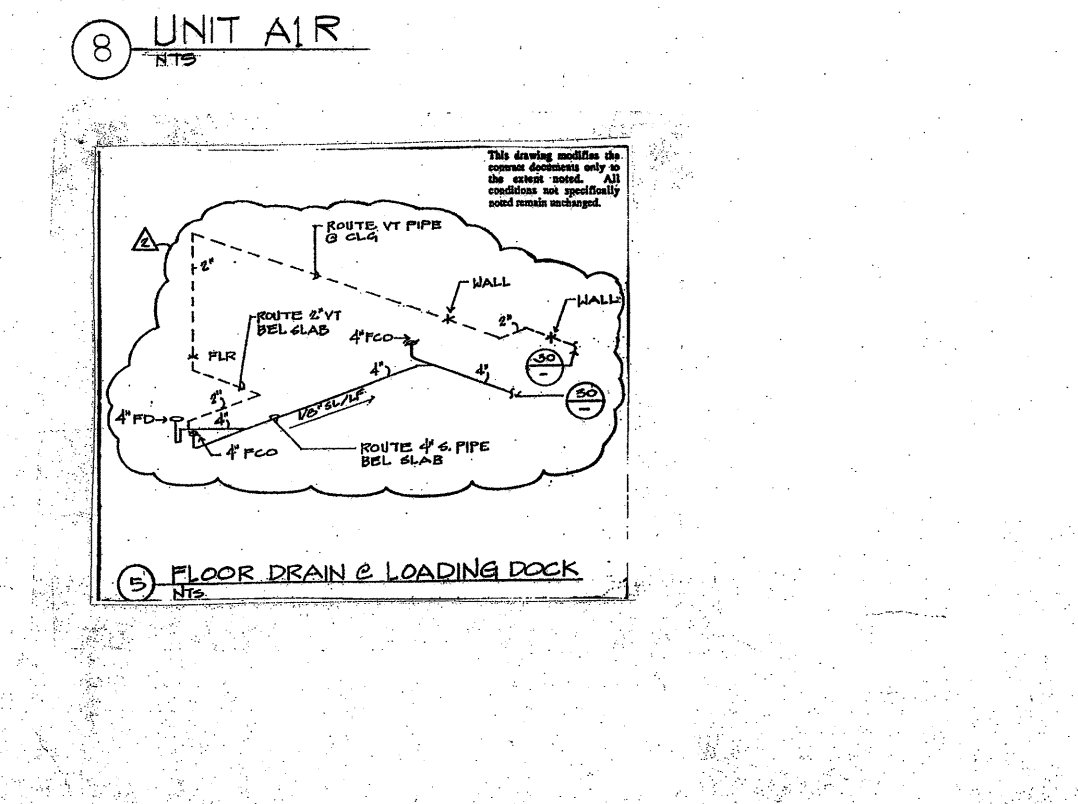
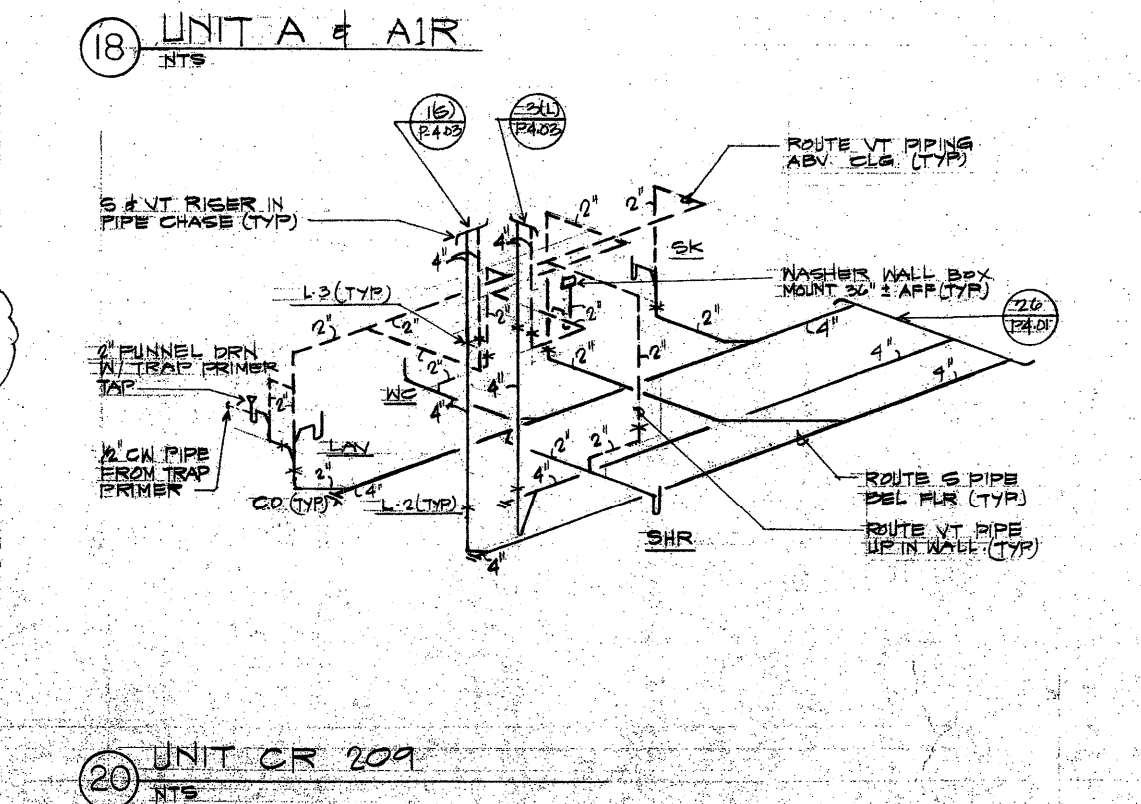
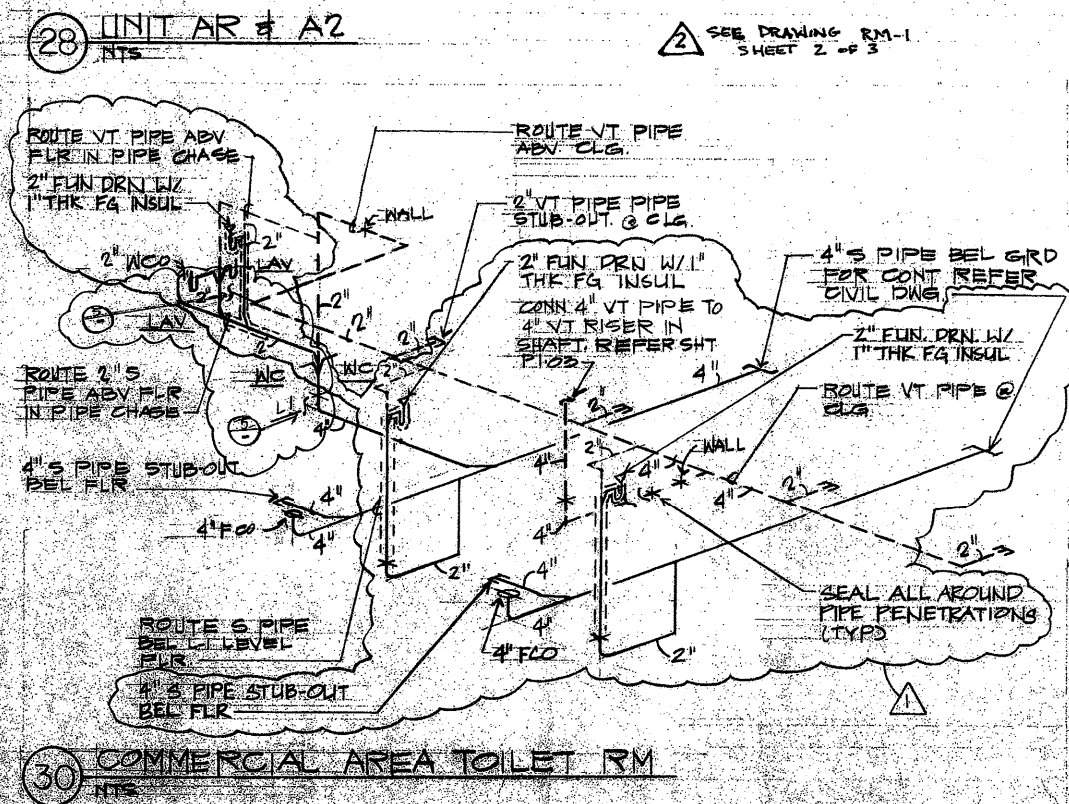
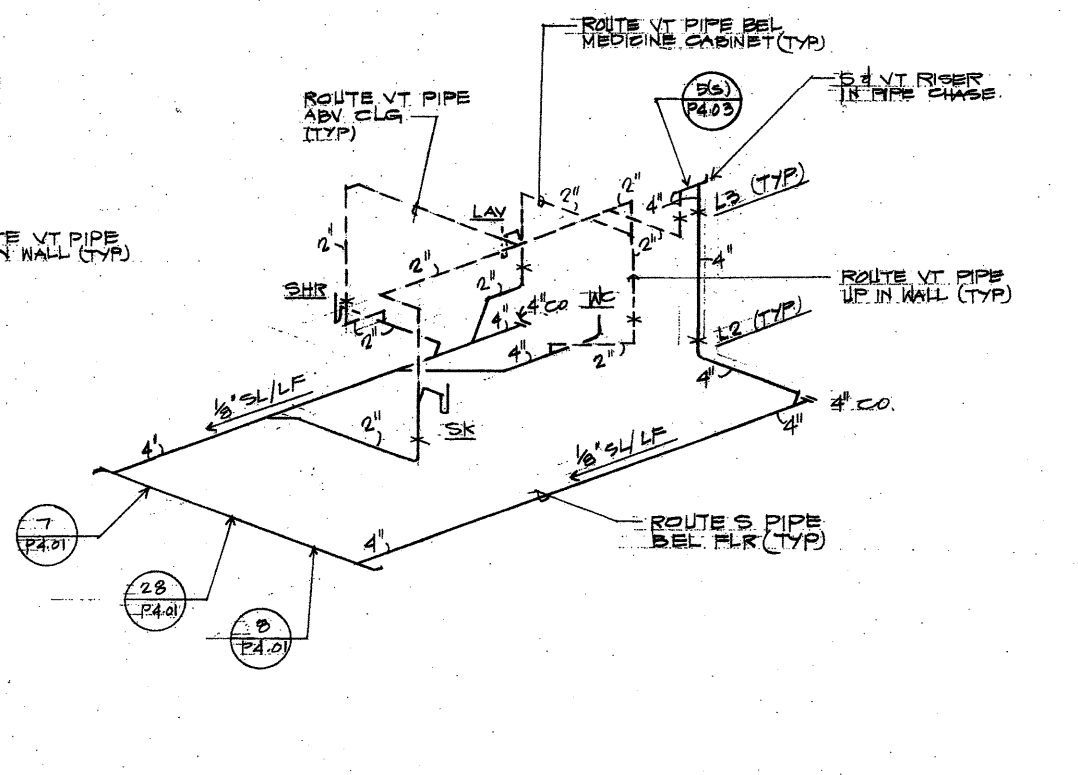
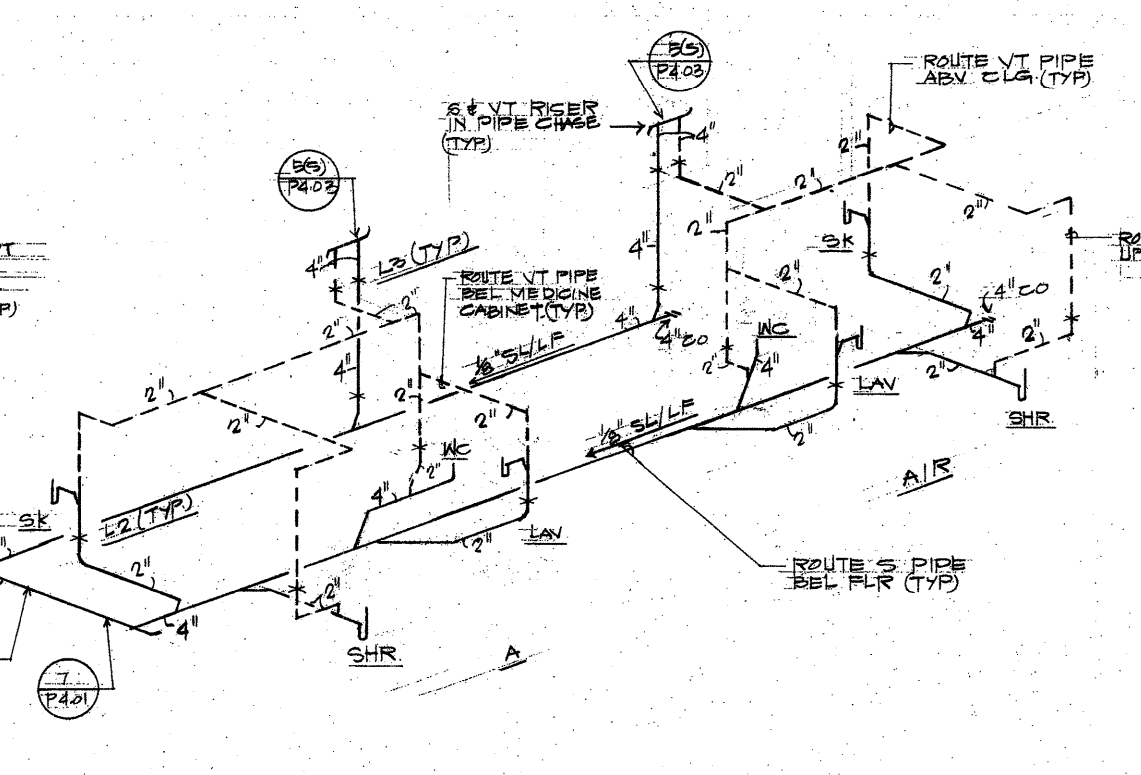
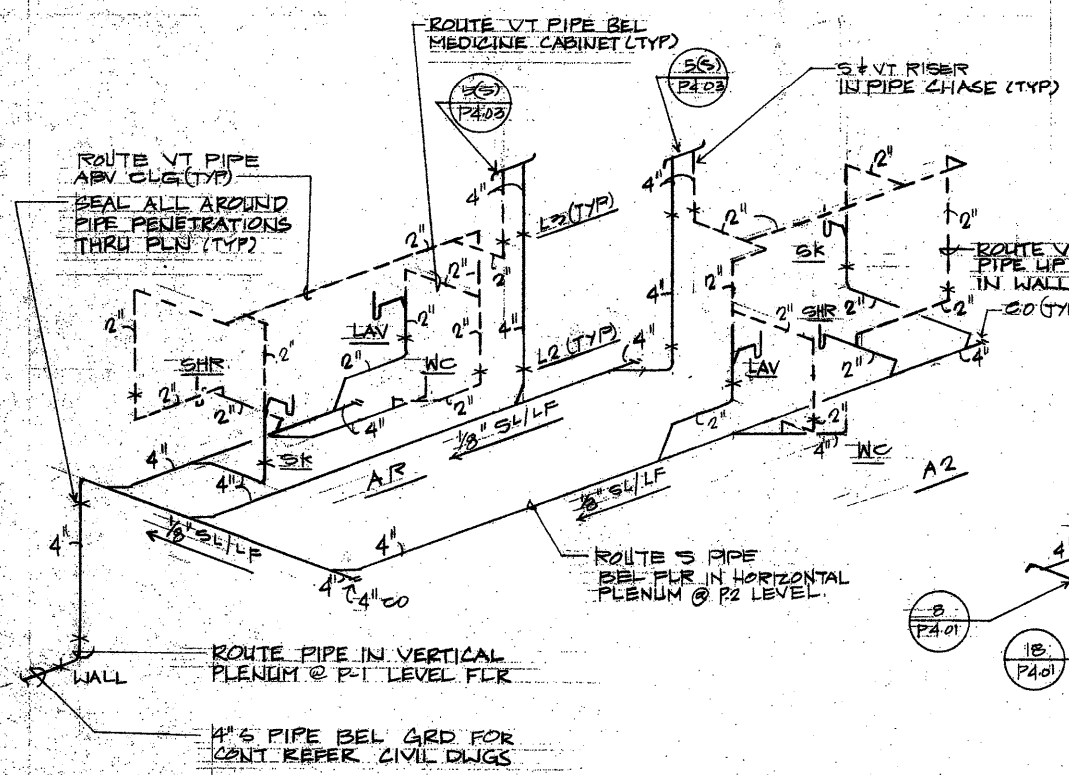
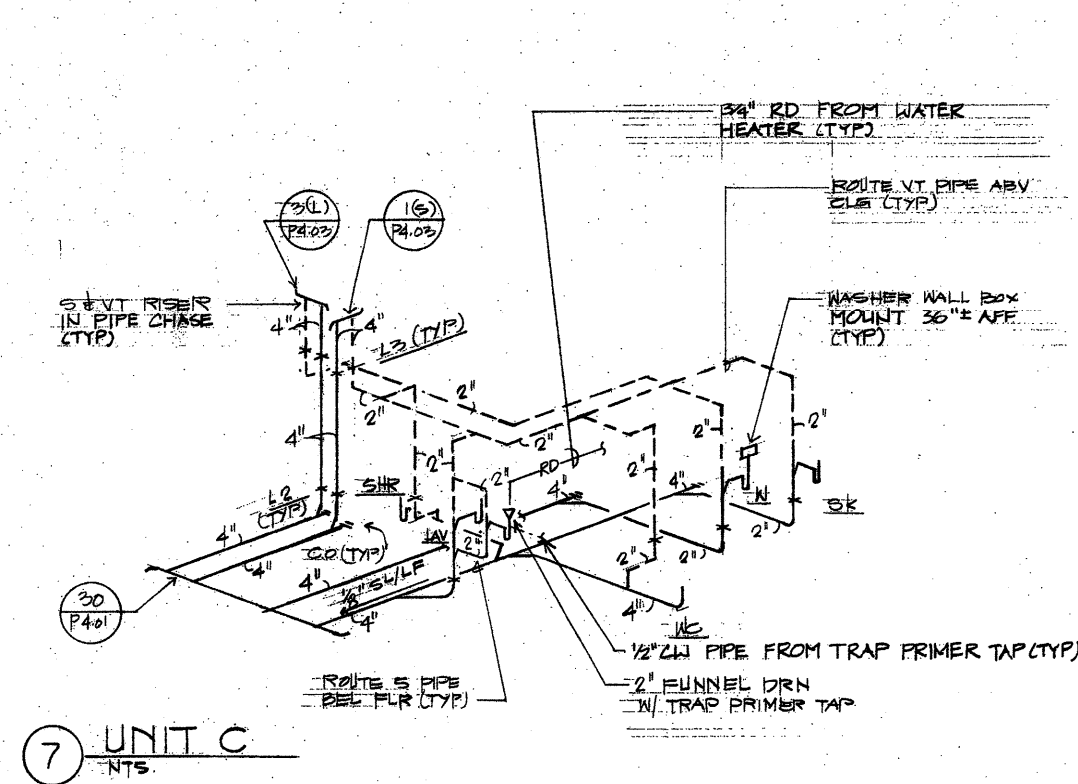
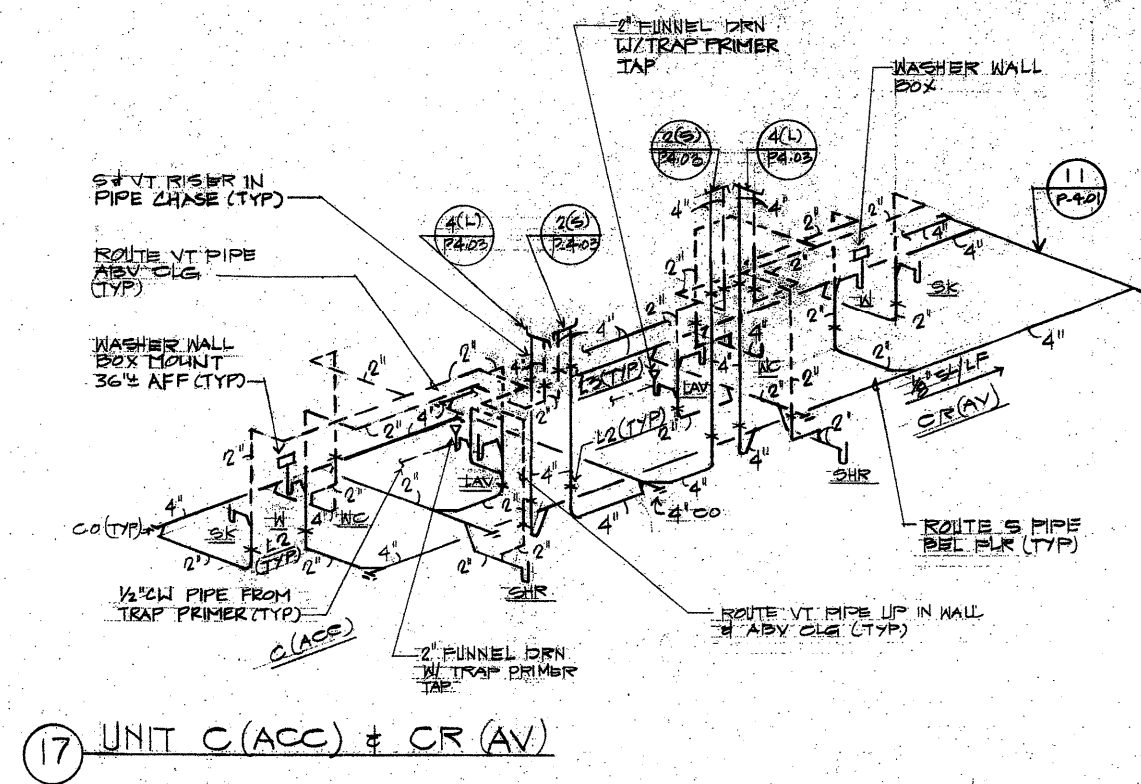
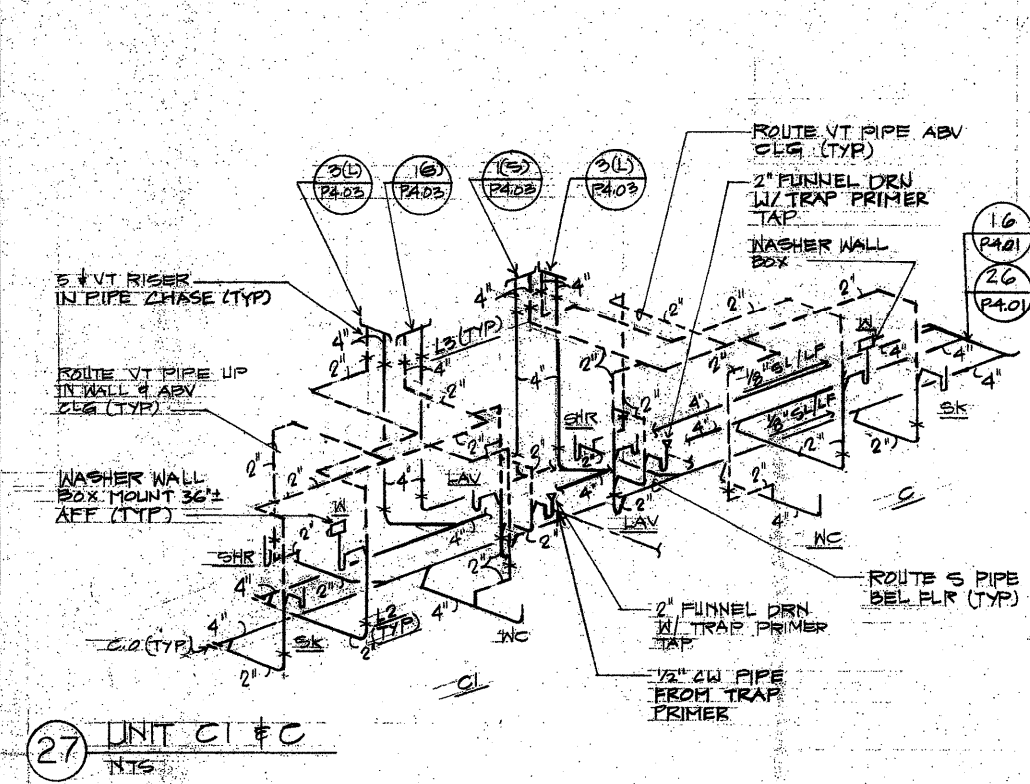
Consultant

KEY PLAN

[illegible]

UNIT DETAIL SOIL
TYPING DIAGRAM

Sheet P-4.02



Architecture
Graphic Design
Interior Design
Planning
Programming

MILES K. ONISH
REGISTERED
PROFESSIONAL
ENGINEER
No. 4345-M
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION,
Miles K. Onish

Project
**HONUAKAHA AFFORDABLE
HOUSING COMPLEX**

Consultant

KEY PLAN

No.	Rev.	Date	Description
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MARCH 1994
**SOIL & VENT RISERS
DIAGRAM**

APPROVED
I hereby approve this plan for the purpose of construction of the project shown hereon, and I am not aware of any facts or circumstances which would render this approval invalid under the provisions of the Building Code of the State of Hawaii, Chapter 91D, Section 10-10, and the rules and regulations of the Department of Public Works, Chapter 10-10, of the Hawaii Administrative Code.

Sheet **P-403**

