

HONUAKAHA HOT WATER RETURN MODIFICATIONS

HAWAII COMMUNITY DEVELOPMENT AUTHORITY
545 QUEEN STREET, HONOLULU, HAWAII, 96813
TMK: 2-1-031:021

PROJECT DATA PROJECT INFORMATION: PROPERTY ADDRESS: TMK: LOT AREA: LAND USE INFORMATION: ZONING: FLOOD ZONE: SMA: SPECIAL DISTRICT: STATE LAND USE: TYPE OF CONSTRUCTION: CONSTRUCTION TYPE: OCCUPANCY GROUP: APPLICABLE CODES: NUMBER OF STORIES: FLOOR AREA: PARKING LOT COVERAGE: PARKING AND LOADING: FIRE SUPPRESSION: 545 QUEEN ST. HONOLULU HI 96813 2-1-031:021 64,705 SF State Jurisdiction: Kakaako Comm. Dev. Dist. (HCDA) X-BEYOND 500 YEAR FLOOD Not in SMA None URBAN DISTRICT IIA R-2, APARTMENT 2018 IBC WITH LOCAL AMENDMENTS 2021 UPC 2021 NFPA 1 WITH LOCAL AMENDMENTS 2020 NEC WITH AMENDMENTS 2018 IECC WITH AMENDMENTS 7 177,053 S.F N/A EXISTING, NO CHANGES EXISTING NFPA 13, NO CHANGES		INDEX OF DRAWINGS <table><tr><th>DWG NO.</th><th>SHEET DESCRIPTION</th><th>SHT NO.</th></tr><tr><td>001</td><td>TITLE SHEET</td><td>1</td></tr><tr><td>P001</td><td>GENERAL NOTES AND LEGEND</td><td>2</td></tr><tr><td>P101</td><td>LEVEL P2 PLUMBING PLAN</td><td>3</td></tr><tr><td>P102</td><td>LEVEL 2 PLUMBING PLAN</td><td>4</td></tr><tr><td>P103</td><td>ROOF PLUMBING PLAN</td><td>5</td></tr><tr><td>P201</td><td>WATER PIPING DIAGRAM</td><td>6</td></tr><tr><td colspan="2"></td><td>6 SHEETS TOTAL</td></tr></table> BWS NOTES 1. THE ADDITION OF THE HOT WATER RETURN LINE DOES NOT AFFECT THE WATER DEMAND. THERE ARE NO CHANGES TO THE PLUMBING FIXTURE COUNT.		DWG NO.	SHEET DESCRIPTION	SHT NO.	001	TITLE SHEET	1	P001	GENERAL NOTES AND LEGEND	2	P101	LEVEL P2 PLUMBING PLAN	3	P102	LEVEL 2 PLUMBING PLAN	4	P103	ROOF PLUMBING PLAN	5	P201	WATER PIPING DIAGRAM	6			6 SHEETS TOTAL	OAHU MAP ISLAND OF OAHU SCALE: NTS		MEI Mechanical Enterprises, Inc. Mechanical & Fire Protection Engineers 501 Summer Street, Ste. 503, Honolulu, Hawaii 96817 Phone: (808) 591-9038 Fax: (808) 596-7356 ROSS S. OKUDA LICENSED PROFESSIONAL ENGINEER No. 9377-M HAWAII, U.S.A. This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date: 04-30-2028 <table><tr><th>REVISIONS</th><th>DESCRIPTION</th><th>BUILDING COMMENTS</th></tr><tr><th>NO</th><th>DATE</th><th></th></tr><tr><td>1</td><td>6/17/26</td><td></td></tr></table>		REVISIONS	DESCRIPTION	BUILDING COMMENTS	NO	DATE		1	6/17/26	
DWG NO.	SHEET DESCRIPTION	SHT NO.																																						
001	TITLE SHEET	1																																						
P001	GENERAL NOTES AND LEGEND	2																																						
P101	LEVEL P2 PLUMBING PLAN	3																																						
P102	LEVEL 2 PLUMBING PLAN	4																																						
P103	ROOF PLUMBING PLAN	5																																						
P201	WATER PIPING DIAGRAM	6																																						
		6 SHEETS TOTAL																																						
REVISIONS	DESCRIPTION	BUILDING COMMENTS																																						
NO	DATE																																							
1	6/17/26																																							
PROJECT SCOPE 1. ADD NEW 1 1/4" HOT WATER RETURN MAIN LINE ON LEVEL P2 PARKING CEILING. CONNECT NEW 1/2" HOT WATER RETURN AT THE BOTTOM OF EACH HOT WATER RISER. RUN NEW 1 1/4" HWR LINE UP INSIDE OF THE TRASH ROOM ON EACH FLR. CONNECT NEW 1 1/4" HWR TO EXIST HWR IN MECHANICAL ROOM. CAP EXIST 1 1/4" HWR LINE ROUTED ON ROOF. 2. VERIFY ON SITE, ALL DIMENSIONS & EXISTING CONDITIONS PRIOR TO STARTING WORK. CONTRACTOR SHALL BE AWARE OF ALL EXISTING CONDITIONS INVOLVED IN THE WORK. NOTIFY THE ENGINEERS IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR DEVIATIONS BETWEEN THE EXISTING DRAWINGS AND CONDITIONS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, ELEVATIONS, AND CLEARANCES. 3. COMPLY WITH ALL APPLICABLE COUNTY OF HONOLULU, STATE AND FEDERAL LAWS, BUILDING CODES, THEIR ADDITIONS, ADDENDUMS, AND AMENDMENTS IN CONSTRUCTION OF THIS PROJECT.		PLOT PLAN PLOT PLAN SCALE: NTS NOTE: ALL STRUCTURES ARE EXISTING		HONUAKAHA HOT WATER RETURN MODIFICATIONS HAWAII COMMUNITY DEVELOPMENT AUTHORITY 545 QUEEN STREET, HONOLULU, HAWAII, 96813 TMK: 2-1-031:021 TITLE SHEET PALEKANA PERMITS THIRD PARTY CERTIFICATION ☐ BUILDING CODE ☐ ELECTRICAL CODE ☐ MECHANICAL CODE ☐ RESIDENTIAL CODE ☐ STRUCTURAL (NON-SINGLE/2-FAMILY DWELLINGS) Project Number 2025.043 Date FEB 2026 Drawn MEI Checked RSO Designed MEI Drawing Number 001 Sheet No <u>1</u> of <u>6</u>																																				

MECHANICAL GENERAL NOTES:

1. EXAMINE THE PROJECT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF NEW WORK PRIOR TO CONSTRUCTION. NOTIFY AND COORDINATE WITH THE OWNER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF 2018 IBC, 2018 IECC, 2021 UPC, NFPA 1 2021 AND ELECTRICAL CODES OF THE CITY AND COUNTY OF HONOLULU, STATE OF HAWAII HEALTH REGULATIONS, FIRE DEPARTMENT REGULATIONS, MANUFACTURER'S RECOMMENDATIONS AND OTHER APPLICABLE REGULATIONS.
3. THE DRAWINGS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL.
4. ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
5. PROVIDE SHOP DRAWINGS FOR THE LAYOUT OF EQUIPMENT, PIPING, AND DUCTWORK SHOWING COORDINATION OF ALL WORK WITH ALL OTHER TRADES.
6. OBTAIN APPROVAL FROM THE ARCHITECT BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS, WALLS, AND SLABS.
7. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
8. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ARCHITECT FOR REVIEW. DO NOT PROCEED UNTIL REVIEWED.
9. REPAIR ANY DAMAGE TO EXISTING CONSTRUCTION RESULTING FROM THE INSTALLATION OF MECHANICAL ITEMS. THE AREAS REPAIRED SHALL MATCH THE ADJACENT SURFACES IN TEXTURE AND COLOR.
10. DRAWINGS FILES WILL NOT BE AVAILABLE TO CONTRACTORS FOR SHOP DRAWINGS OR ANY OTHER PURPOSE.
11. PROVIDE ACCESS PANELS FOR ALL ITEMS UNDER THIS SECTION REQUIRING SERVICING, INSPECTION, MAINTENANCE, AND ADJUSTMENT.

PLUMBING PHASES OF WORK:

THE FOLLOWING PHASES ARE INCLUDED IN THIS PROJECT'S SCOPE OF PLUMBING WORK:

P1. PLUMBING FIXTURES, EQUIPMENT
P2a. SANITARY PIPING SYSTEM (INTERIOR)
P3a. WATER DISTRIBUTION SYSTEM (INTERIOR)

BWS NOTES:

1. NO CHANGES WILL BE MADE TO THE PLUMBING FIXTURE COUNTS AND WATER DEMAND.

MECHANICAL LEGEND		
SYMBOL	ABBRV.	DESCRIPTION
GENERAL		
	CLG	CEILING
∅	DIA.	DIAMETER
	DN	DOWN
(E)	EXIST.	EXISTING
(N)		NEW
	POC	POINT OF CONNECTION
	TYP	TYPICAL
	W/	WITH
PLUMBING		
↗		CHECK VALVE
— —	CO	CLEANOUT
— · —	CW	COLD WATER
⊖	FCO	FLOOR CLEANOUT
⊗	FD	FLOOR DRAIN
⊥	HB	HOSE BIBB
— · · —	HW	HOT WATER
— · · · —	HWR	HOT WATER RETURN
	HWRP	HOT WATER RETURN PUMP
	S	SANITARY
	SD	STORM DRAIN
⊗	SOV	SHUT OFF VALVE

CITY AND COUNTY OF HONOLULU
REVISED ORDINANCES OF HONOLULU 2021
CHAPTER 16B

TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO THE BUILDING ENERGY CONSERVATION CODE FOR:

BUILDING COMPONENT SYSTEMS

ELECTRICAL COMPONENT SYSTEMS

✓

MECHANICAL COMPONENT SYSTEMS

SIGNATURE: _____

NAME: ROSS S. OKUDA

TITLE: PRESIDENT

PE #: 9377-M

DATE: 03-02-2026

ROSS S. OKUDA
LICENSED PROFESSIONAL ENGINEER
No. 9377-M
HAWAII, U.S.A.
EXP. 4-30-2028

MECHANICAL SPECIFICATIONS:

SECTION 15A – GENERAL

1. INSTALLATION AND WORKMANSHIP: ALL WORKMANSHIP SHALL BE OF THE HIGHEST STANDARD. ALL PIPING SHALL BE LAID OUT TO INSURE A NEAT, SYSTEMATIC AND ORDERLY ARRANGEMENT OF ALL WORK. ALL PLUMBING INSTALLED SHALL COMPLY WITH THE UNIFORM PLUMBING CODE, FIRE DEPARTMENT REGULATIONS, THE REGULATIONS OF THE DEPARTMENT OF HEALTH, OF THE STATE OF HAWAII, OSHA, NFPA AND ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER WORK IN THIS SECTION. WHERE NOTED, FIXTURES SHALL COMPLY WITH ALL APPLICABLE ADA STANDARDS.
2. GENERAL REQUIREMENTS: IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE INSTALLATION. SHOULD THERE BE OMISSIONS OR DISCREPANCIES IN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL CALL THE ATTENTION OF THE ENGINEER TO SUCH OMISSIONS AND DISCREPANCIES IN ADVANCE OF CONSTRUCTION SO THAT THE NECESSARY CORRECTIONS CAN BE MADE, OTHERWISE THE CONTRACTOR SHALL FURNISH AND INSTALL THE OMISSIONS OR DISCREPANCIES AS IF THE SAME WERE SPECIFIED AND PROVIDED FOR.

A. STANDARDS:

1) ALL WORK SHALL BE DONE IN ACCORDANCE WITH UPC 2021, IBC 2018, IECC 2018, NFPA 1 2018, HONOLULU FIRE DEPARTMENT REGULATIONS, LANDLORD REQUIREMENT, AND ALL APPLICABLE ORDINANCES AND CODES OF THE CITY AND COUNTY OF HONOLULU.

2) CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES, AND CERTIFICATES AND PAY FOR ALL FEES.

B. DRAWINGS AND SPECIFICATIONS:

1) CONTRACT DRAWINGS: MECHANICAL PLANS ARE ESSENTIALLY DIAGRAMMATIC, SHOWING LOCATIONS OF PIPES AND OTHER MECHANICAL EQUIPMENT. WHERE LOCATIONS ARE NOT DIMENSIONED, THEY ARE APPROXIMATE, AND BEFORE INSTALLING, THE CONTRACTOR SHALL STUDY THE EXISTING CONDITIONS AND MAKE THE INSTALLATION IN THE MOST LOGICAL MANNER.

2) SHOP DRAWINGS: AS SOON AS PRACTICAL AND WITHIN THIRTY (30) DAYS AFTER AWARD OF CONTRACT AND BEFORE COMMENCEMENT OF INSTALLATION OF ANY MATERIALS, SIX (6) SETS OF MATERIAL SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. SUBMITTALS SHALL CONSIST OF A COMPLETE LIST OF MATERIALS. SHOP DRAWINGS SHALL CONTAIN ALL PIPING, DUCTWORK, EQUIPMENT, HANGERS, VALVES, AND SPECIALTIES. ALLOW FOR SERVICE CLEARANCES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

3) RECORD DRAWINGS: CONTRACTOR SHALL KEEP A SET OF DRAWINGS AVAILABLE AT THE JOBSITE ON WHICH ALL CHANGES AND ADDITIONS IN THE MECHANICAL WORK ARE SHOWN.

C. WORK AREA SHALL BE CLEANED OF DEBRIS AT THE END OF EACH DAY.
3. GUARANTEE

A. GUARANTEE: ALL WORK AND MATERIAL EXECUTED UNDER THIS SECTION SHALL BE GUARANTEED TO BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF PROJECT AS A WHOLE. ALL WORK OR REPAIR AND REPLACEMENT REQUIRED, INCLUDING OTHER WORK DAMAGED BY THIS WORK'S DEFECT SHALL BE PERFORMED AT NO COST TO THE OWNER.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY PART OF THE PREMISES CAUSED BY FAILURE IN THE EQUIPMENT UNDER THIS SECTION FOR A PERIOD OF ONE (1) YEAR AFTER THE FINAL ACCEPTANCE OF THE WORK AS A WHOLE.

SECTION 15B: PLUMBING

1. SCOPE: FURNISH AND INSTALL ALL MATERIALS, LABOR, SERVICES AND EQUIPMENT TO PROVIDE WATER CONNECTIONS TO ALL NEW FIXTURES AS WELL AS ANY ASSOCIATED PIPING ALTERATIONS, AS INDICATED ON THE PLANS AND/OR SPECIFIED HEREIN.
2. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE IN THEIR RESPECTIVE KINDS, FREE FROM ALL DEFECTS AND SHALL BE OF THE MAKE AND TYPE SPECIFIED OR APPROVED EQUAL.

A. PIPING MATERIAL:

1) ABOVE GROUND WATER PIPING: COPPER, TYPE "L", HARD DRAWN WITH WROUGHT COPPER OR CAST BRONZE FITTINGS; 95-5 LEAD FREE SOLDER JOINTS.

2) VALVES SHALL BE OF HEAVY DUTY BRONZE CONSTRUCTION, LEAD-FREE, THREADED OR SOLDERED ENDS. BALL VALVES SHALL BE 3-PIECE BRONZE FULL PORT TYPE WITH BLOWOUT-PROOF STEM. NIBCO, CRANE, POWELL OR EQUAL.

3) PIPE INSULATION: DOMESTIC HOT WATER PIPING INSULATION SHALL COMPLY WITH HONOLULU CITY AND COUNTY IECC AMENDMENT SECTION C404.5.3 AND UPC 609.12.2, WHICHEVER IS MORE STRINGENT. INSULATE THE ENTIRE HOT WATER PIPING SYSTEM IN ACCORDANCE WITH TABLE C403.11.3. PROVIDE CONTINUOUS INSULATION ON STRAIGHTS, ELBOWS, TEES, VALVES, UNIONS, AND AT SUPPORTS; SEAL ALL LONGITUDINAL/ CIRCUMFERENTIAL JOINTS. INSULATION SHALL HAVE MINIMUM FLAME/SMOKE DEVELOPED RATING OF 25/50. INSULATION SHALL BE THICK CLOSED CELL ELASTOMERIC INSULATION, PRE-MOLDED WITH LONGITUTINAL SLIT WITH ADHESIVE-SEALING STRIP.
3. EXECUTION: THE INSTALLATION SHALL BE ACCOMPLISHED BY A QUALIFIED, LICENSED CONTRACTOR RECOGNIZED AS A FULLY EXPERIENCED SPECIALIST IN THE PLUMBING TRADE.

A. GENERAL:

1) VISIT THE WORK SITE AND BECOME FULLY AWARE OF ALL EXISTING CONDITIONS.

2) CLEAN UP WORK AREA FOR PROPER OPERATION.

B. PIPING:

1) PROVIDE AND INSTALL HANGERS AND SUPPORTS FOR ALL PIPE WORK TO PROVIDE FOR EXPANSION AND CONTRACTION, PREVENT VIBRATION AND MAINTAIN REQUIRED GRADING BY PROPER ADJUSTMENT.

2) SUPPORTS, HANGERS, BOLTS, NUTS, WASHERS, ETC., SHALL BE GALVANIZED UNLESS OTHERWISE SPECIFIED. SUPPORTS FOR COPPER PIPE SHALL BE IN ADDITION COATED WITH PLASTIC.

3) STERILIZE AND TEST ALL WASTE AND WATER LINES IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE RECOMMENDATION OF THE PLUMBING CODE.

4) PROVIDE ESCUTCHEON PLATES FOR EXPOSED ALL WALL, ROOF, AND FLOOR PENETRATIONS. PROVIDE FIRE STOPPING AT ALL PENETRATIONS THRU RATED WALLS, FLOORS, ETC., AS PER BUILDING CODE REQUIREMENTS.

5) CERTIFICATE: SUBMIT CHLORINATION REPORT TO ARCHITECT UPON COMPLETION.

PALEKANA PERMITS
THIRD PARTY CERTIFICATION

☐ BUILDING CODE

☐ ELECTRICAL CODE

☐ MECHANICAL CODE

☐ RESIDENTIAL CODE

☐ STRUCTURAL (NON-SINGLE/2-FAMILY DWELLINGS)

MEI
Mechanical Enterprises, Inc.
Mechanical & Fire Protection Engineers
501 Summer Street, Ste. 503, Honolulu, Hawaii 96817
Phone: (808) 591-9038
Fax: (808) 596-7356

ROSS S. OKUDA
LICENSED PROFESSIONAL ENGINEER
No. 9377-M
HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Expiration Date: 04-30-2028

REVISIONS

NO	DATE	DESCRIPTION	MECH	CODE	COMMENT
1	07/02/2026				

HONUAKAHA HOT WATER RETURN
MODIFICATIONS

HAWAII COMMUNITY DEVELOPMENT AUTHORITY
545 QUEEN STREET, HONOLULU, HAWAII, 96813
TMK: 2-1-031021

GENERAL NOTES AND LEGEND

Project Number
2025.043

Date
FEB 2026

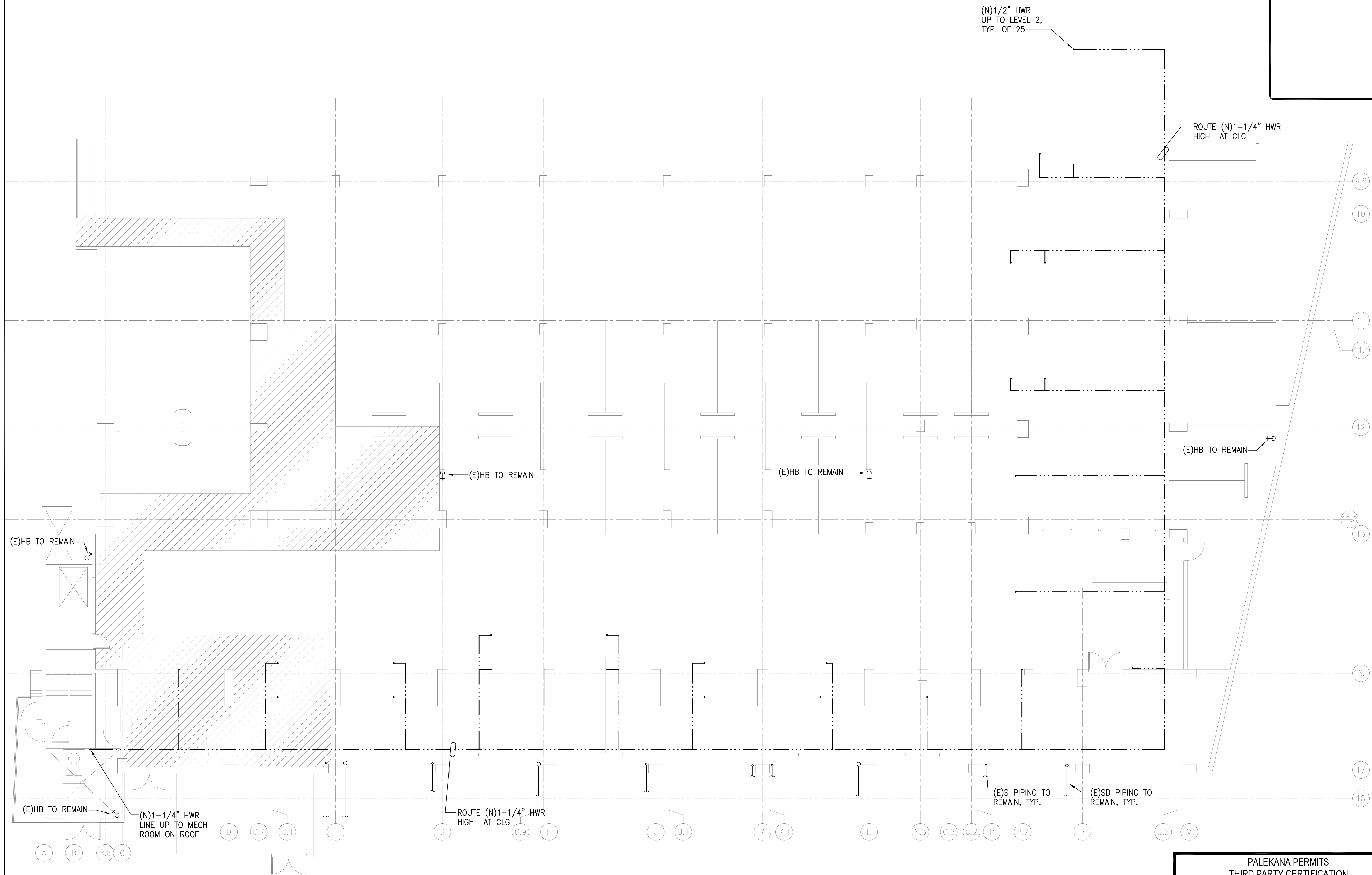
Drawn
MEI

Checked
RSO

Designed
MEI

Drawing Number
P001

Sheet No 2 of 6

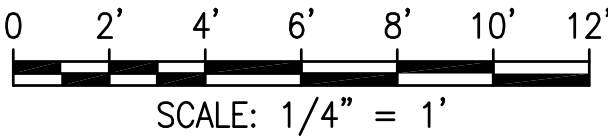


1
P101

LEVEL P2 PLUMBING PLAN

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

- NOTES:
1. ALL EXISTING CW, HW, S, AND SD PIPING TO REMAIN.
 2. ALL EXISTING PLUMBING FIXTURES TO REMAIN.



SCALE: 1/4" = 1'

PALEKANA PERMITS
THIRD PARTY CERTIFICATION

☐ BUILDING CODE

☐ ELECTRICAL CODE

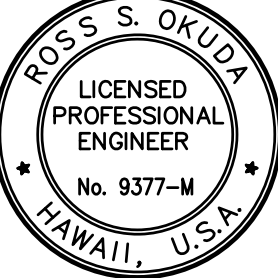
☐ MECHANICAL CODE

☐ RESIDENTIAL CODE

☐ STRUCTURAL (NON-SINGLE/2-FAMILY DWELLINGS)



Mechanical Enterprises, Inc.
Mechanical & Fire Protection Engineers
501 Summer Street, Ste. 503, Honolulu, Hawaii 96817
Phone: (808) 591-9038
Fax: (808) 596-7356



This work was prepared by me or under my supervision and construction of this project will be under my observation.

Expiration Date: 04-30-2026

REVISIONS	
NO	DESCRIPTION

HONUAKAHA HOT WATER RETURN MODIFICATIONS

545 QUEEN STREET, HONOLULU, HAWAII, 96813

TMK: 2-1-031021

LEVEL P2 PLUMBING PLAN

Project Number
2025.043

Date
FEB 2026

Drawn
MEI

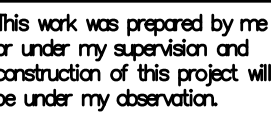
Checked
RSO

Designed
MEI

Drawing Number

P101

Sheet No. 3 of 5



REVISIONS	DESCRIPTION
1	Initial version
2	Added new section on data collection
3	Revised methodology section
4	Added references
5	Final version

DESCRIPTION

DATE _____

NO

HONUAKAHA HOT WATER RETURN MODIFICATIONS

MODIFICATIONS

TMK: 2-1-031:021

LEVEL 2 PLUMBING PLAN

Project Number
2025.043

Date
FEB 2026

rawn
MEI

Checked
RSO

Designed by	MEI
-------------	-----

Drawing Number

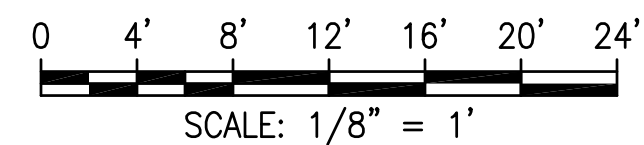
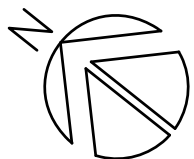
P102

Sheet No 4 of 6

P1) MODIFY EXISTING HW RISER AS REQUIRED TO CONNECT NEW HWR PIPING TO BOTTOM OF EXISTING HW RISER. INSTALL NEW 0.5 GPM FLOW REGULATING VALVE ON NEW HWR RISER WITHIN EXISTING SHAFT. PATCH/REPAIR WALL/FLOOR TO MATCH ADJACENT SURFACE. CONTRACTOR TO FIELD VERIFY.

NOTES:

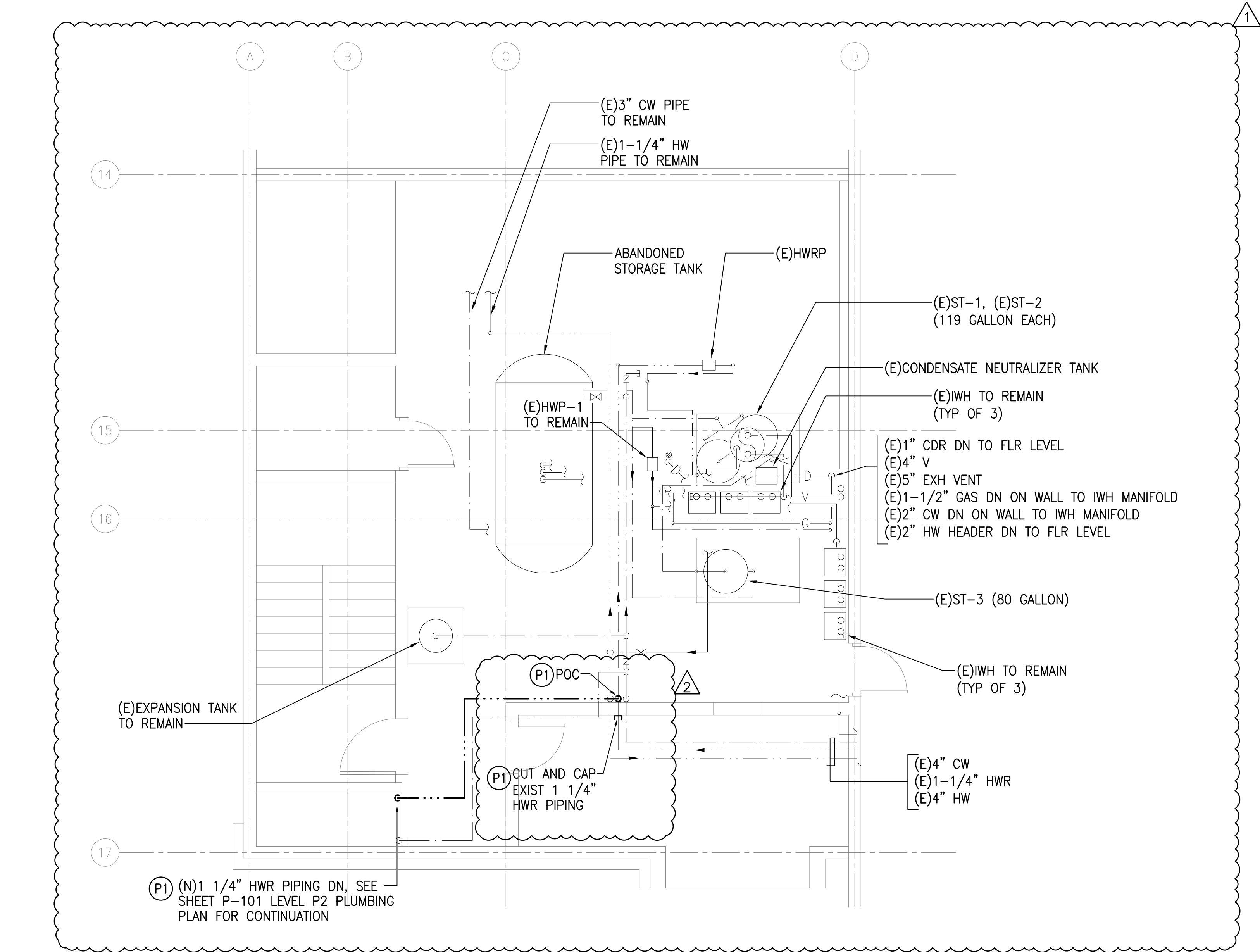
1. ALL EXISTING CW, HW, S, AND SD PIPING TO REMAIN.
2. ALL EXISTING PLUMBING FIXTURES TO REMAIN.

PALEKANA PERMITS
THIRD PARTY CERTIFICATION

- ☐ BUILDING CODE ☐ ELECTRICAL CODE
- ☐ MECHANICAL CODE ☐ RESIDENTIAL CODE
- ☐ STRUCTURAL (NON-SINGLE/2-FAMILY DWELLINGS)

LEVEL 2 PLUMBING PLAN

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



1 MECHANICAL ROOM PLUMBING PLAN
SCALE: 1/4" = 1' -0"

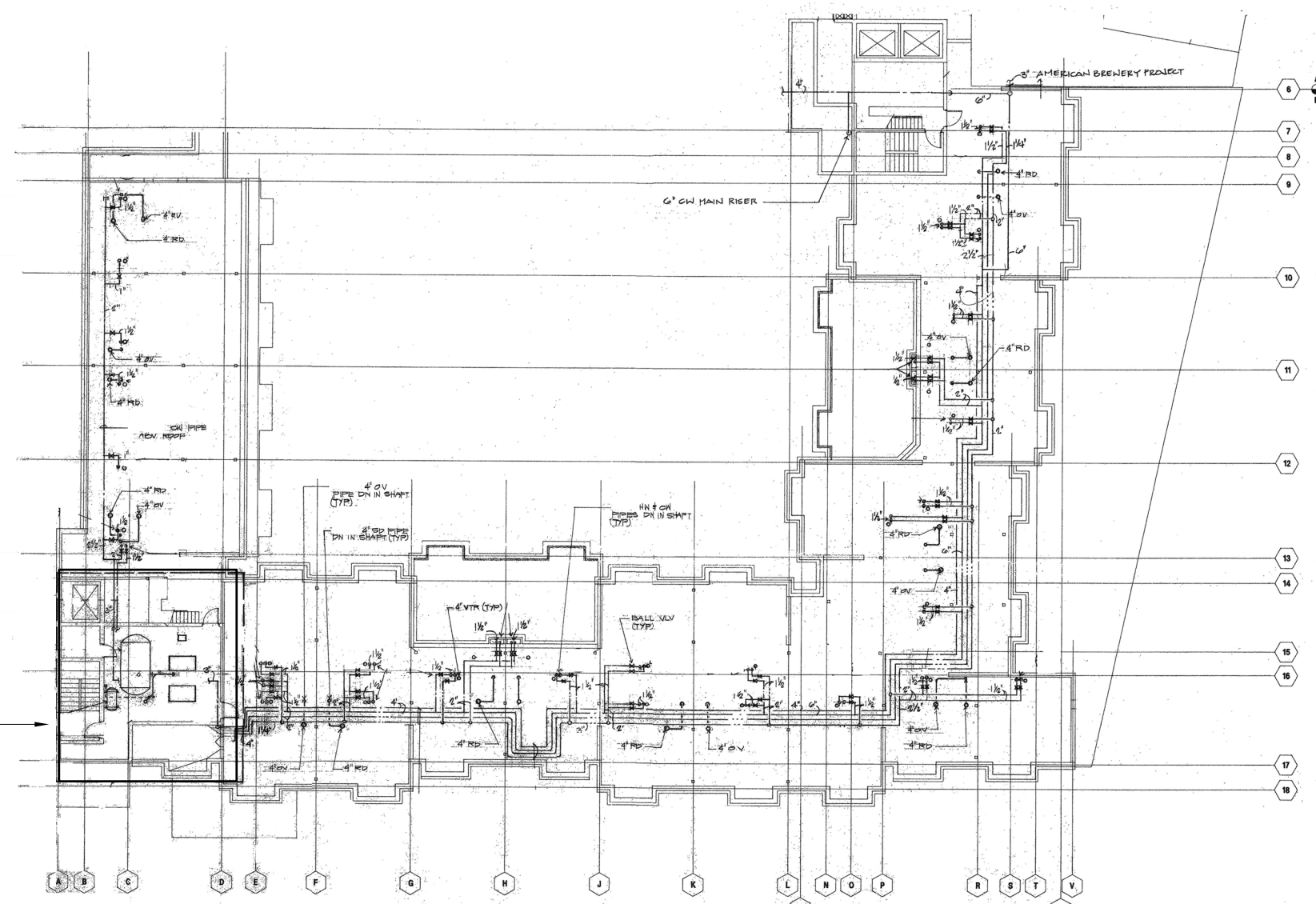
PLUMBING WORK NOTES:

- (P1) PROVIDE NEW HWR PIPING AND MODIFY EXISTING HWR RISER AS REQUIRED TO CONNECT NEW HWR PIPING TO EXISTING HWR IN HEATER ROOM AND CAP EXIST 1 1/4" HWR PIPING ON ROOF. PATCH/REPAIR WALL/FLOOR TO MATCH ADJACENT SURFACE. CONTRACTOR TO FIELD VERIFY. DRAIN ALL WATER IN EXISTING HWR PIPING ON THE ROOF THAT WILL BE ABANDONED. IN PLACE.

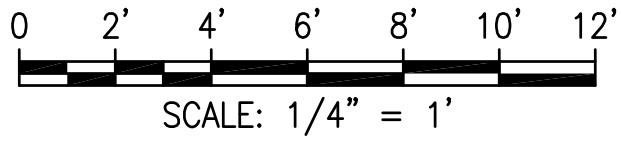
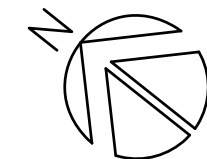
NOTES:

1. ALL EXISTING CW, HW, S, AND SD PIPING TO REMAIN.
2. ALL EXISTING PLUMBING EQUIPMENT TO REMAIN.

SEE MECH
ROOM PLUMBING
PLAN 1/P-103



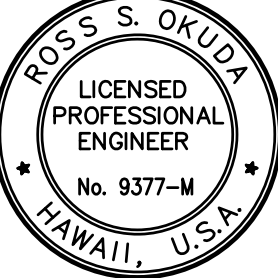
2 ROOF PLUMBING PLAN
SCALE: NTS



PALEKANA PERMITS THIRD PARTY CERTIFICATION		
☐ BUILDING CODE	☐ ELECTRICAL CODE	
☐ MECHANICAL CODE	☐ RESIDENTIAL CODE	
☐ STRUCTURAL (NON-SINGLE/2-FAMILY DWELLINGS)		



Mechanical Enterprises, Inc.
501 Summer Street, Ste. 503, Honolulu, Hawaii 96817
Phone: (808) 591-9038
Fax: (808) 596-7356



This work was prepared by me or under my supervision and construction of this project will be under my observation.

Expiration Date: 04-30-2028

REVISIONS			
NO	DATE	DESCRIPTION	MECH CODE COMMENT
1	07/02/2026		
2	08/04/2026		

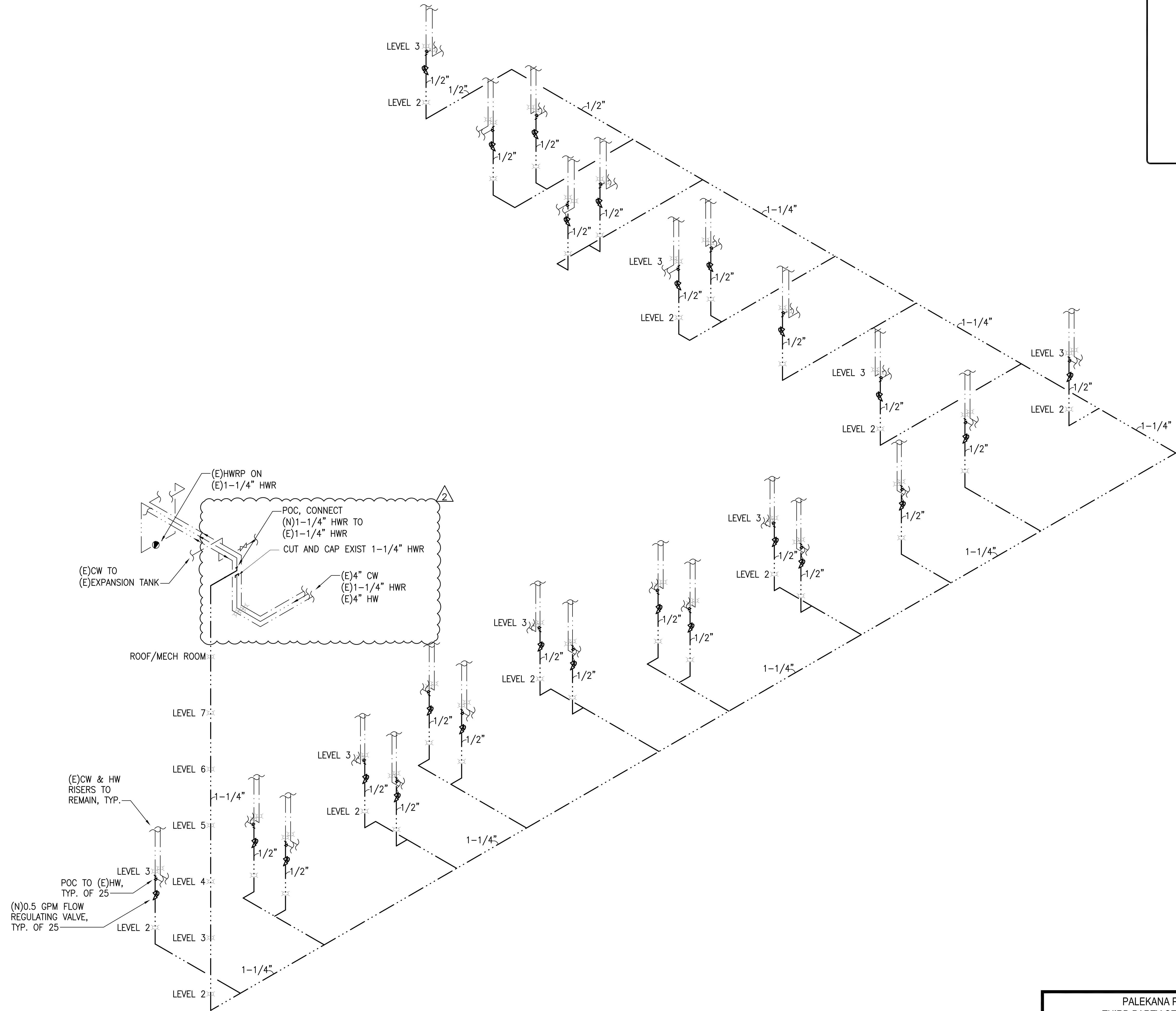
HONOLULU HOT WATER RETURN
MODIFICATIONS
HAWAII COMMUNITY DEVELOPMENT AUTHORITY
545 QUEEN STREET, HONOLULU, HAWAII, 96813
TMK: 2-1-031021

ROOF PLUMBING PLAN

Project Number 2025.043	Date FEB 2026
Drawn MEI	Checked RSO
Designed MEI	

Drawing Number

P103



1
P201

WATER PIPING DIAGRAM

SCALE: NOT TO SCALE

PALEKANA PERMITS
THIRD PARTY CERTIFICATION

☐ BUILDING CODE

☐ ELECTRICAL CODE

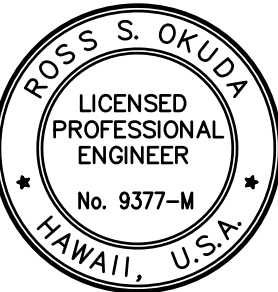
☐ MECHANICAL CODE

☐ RESIDENTIAL CODE

☐ STRUCTURAL (NON-SINGLE/2-FAMILY DWELLINGS)



Mechanical Enterprises, Inc.
Mechanical & Fire Protection Engineers
501 Summer Street, Ste. 503, Honolulu, Hawaii 96817
Phone: (808) 591-9038
Fax: (808) 596-7356



ROSS S. OKUDA
LICENSED PROFESSIONAL ENGINEER
No. 9377-M
HAWAII, U.S.A.
Expiration Date: 04-30-2028

This work was prepared by me or under my supervision and construction of this project will be under my observation.

REVISIONS	
NO	DESCRIPTION
2	MECH REVISIONS

HONUAKAHA HOT WATER RETURN MODIFICATIONS

HAWAII COMMUNITY DEVELOPMENT AUTHORITY
545 QUEEN STREET, HONOLULU, HAWAII, 96813
TMK: 2-1-031021

WATER PIPING DIAGRAM

Project Number
2025.043

Date
FEB 2026

Drawn
MEI

Checked
RSO

Designed
MEI

Drawing Number
P201

Sheet No. 6 of 6