

# PLUMBING GENERAL NOTES

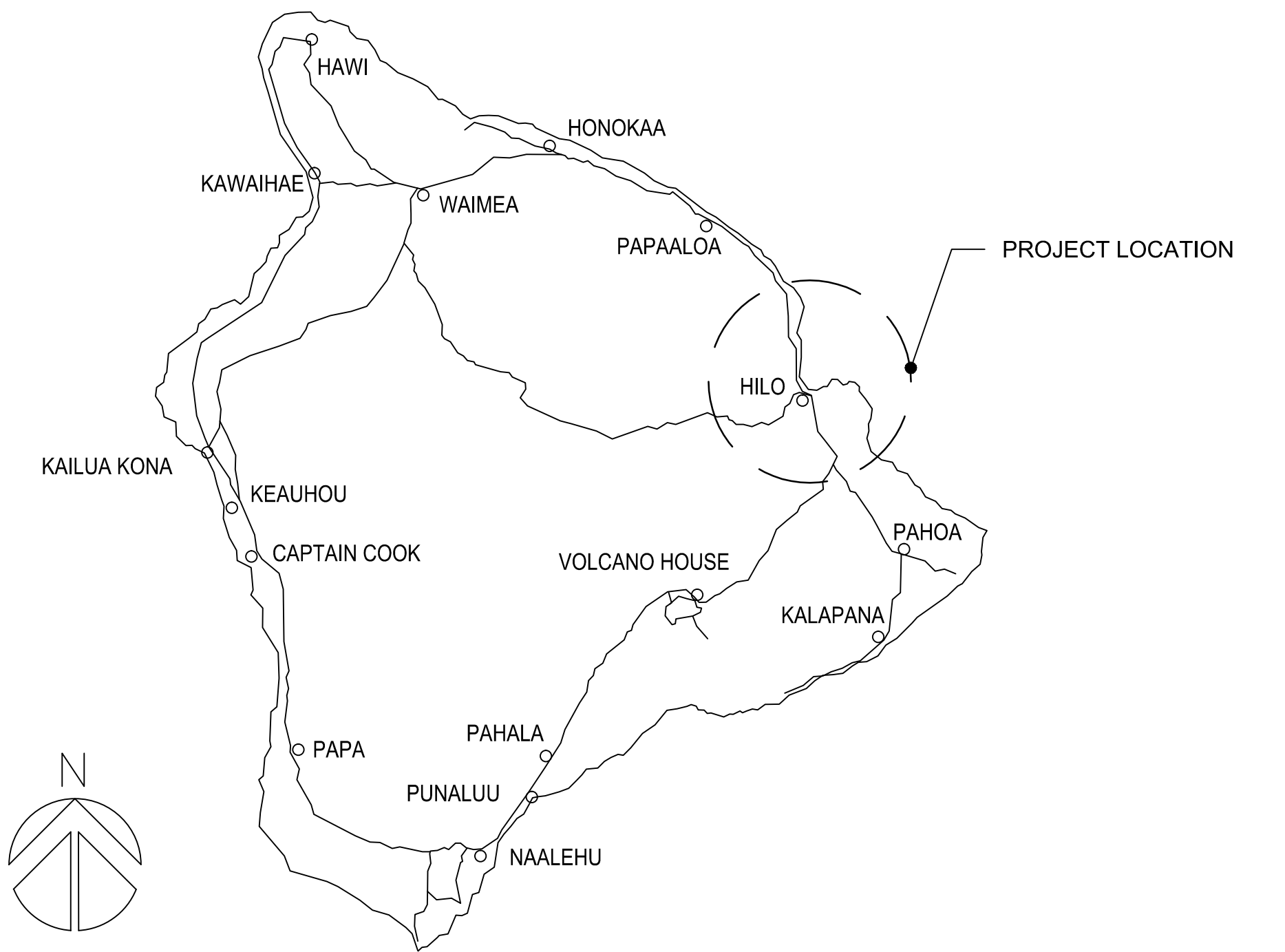
1. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES FROM THE PLANS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE COUNTY OF HAWAII, STATE DEPARTMENT OF HEALTH REGULATIONS, STATE OF HAWAII, TITLE 12, SUBTITLE 8, PART 10. THE APPLICABLE VERSION OF THE UNIFORM PLUMBING CODE, UNIFORM FIRE CODE, NFPA 13, NFPA 70, NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL OTHER AGENCIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT INCLUDING CUTTING AND PATCHING AS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED. THE DRAWINGS & SPECIFICATIONS ARE COOPERATIVE IN THAT REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL IN ONE SHALL BE AS IF SHOWN ON BOTH AND SHALL BE CONSIDERED PART OF THE CONTRACT. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING. ARRANGE AND LOCATE PIPING TO MAINTAIN ADEQUATE CLEARANCES TO SERVICE EQUIPMENT. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCES WITH OTHER TRADES. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON THE RECORD DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED.
5. CONTRACTOR SHALL MAKE ALL PROVISIONS TO PROTECT ALL EXISTING EQUIPMENT FROM DAMAGE. THE CONTRACTOR SHALL RESTORE ANY EXISTING CONSTRUCTION DAMAGED BY HIS WORK TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
6. ALL DEMOLITION OF PIPING AND REMOVAL OF EQUIPMENT SHALL BE PERFORMED IN ACCORDANCE TO THE SPECIFICATIONS AND IN COORDINATION W/ THE DEPARTMENT OF TRANSPORTATION. HARBOR OPERATIONS TAKE PRECEDENCE OVER CONSTRUCTION ACTIVITY. THE CONTRACTOR MUST WORK AROUND HARBOR OPERATIONS SO THAT THE PIER WILL REMAIN OPERATIONAL. WEEKEND WORK MAY BE REQUIRED.
7. THE EXISTING CONDITIONS SHOWN WERE DERIVED FROM EXISTING DRAWINGS & LIMITED SITE SURVEYS. THE PLANS ARE BELIEVED TO BE FAIRLY ACCURATE BUT IT WILL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY EXISTING SITE CONDITIONS.
8. REFER TO MANUFACTURERS CERTIFIED DRAWINGS FOR EQUIPMENT DIMENSIONS AND MAINTAIN RECOMMENDED CLEARANCES.
9. WHEN WORKING IN AND AROUND THE EXISTING PIER, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE DEPARTMENT OF TRANSPORTATION ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.
10. EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC.. EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE SHALL BE CAPPED.
11. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE PROTECTED OR REMOVED AND REINSTALLED AS REQUIRED IN ACCORDANCE WITH NEW WORK. WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE DEPARTMENT OF TRANSPORTATION.
12. ALL EXISTING SURFACES DAMAGED OR MODIFIED SHALL BE REPAIRED TO MATCH ADJACENT UNDISTURBED AREA. PATCH AND REPAIR SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURE, MATERIALS AND COLOR. ALL ABANDONED OPENINGS SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT UNDISTURBED AREA. PATCH ALL HOLES CAUSED BY REMOVAL OF EXISTING SUPPORTS AND PIPING.
13. ALL STAINLESS STEEL SHALL BE TYPE 316L.

# PLUMBING LEGEND

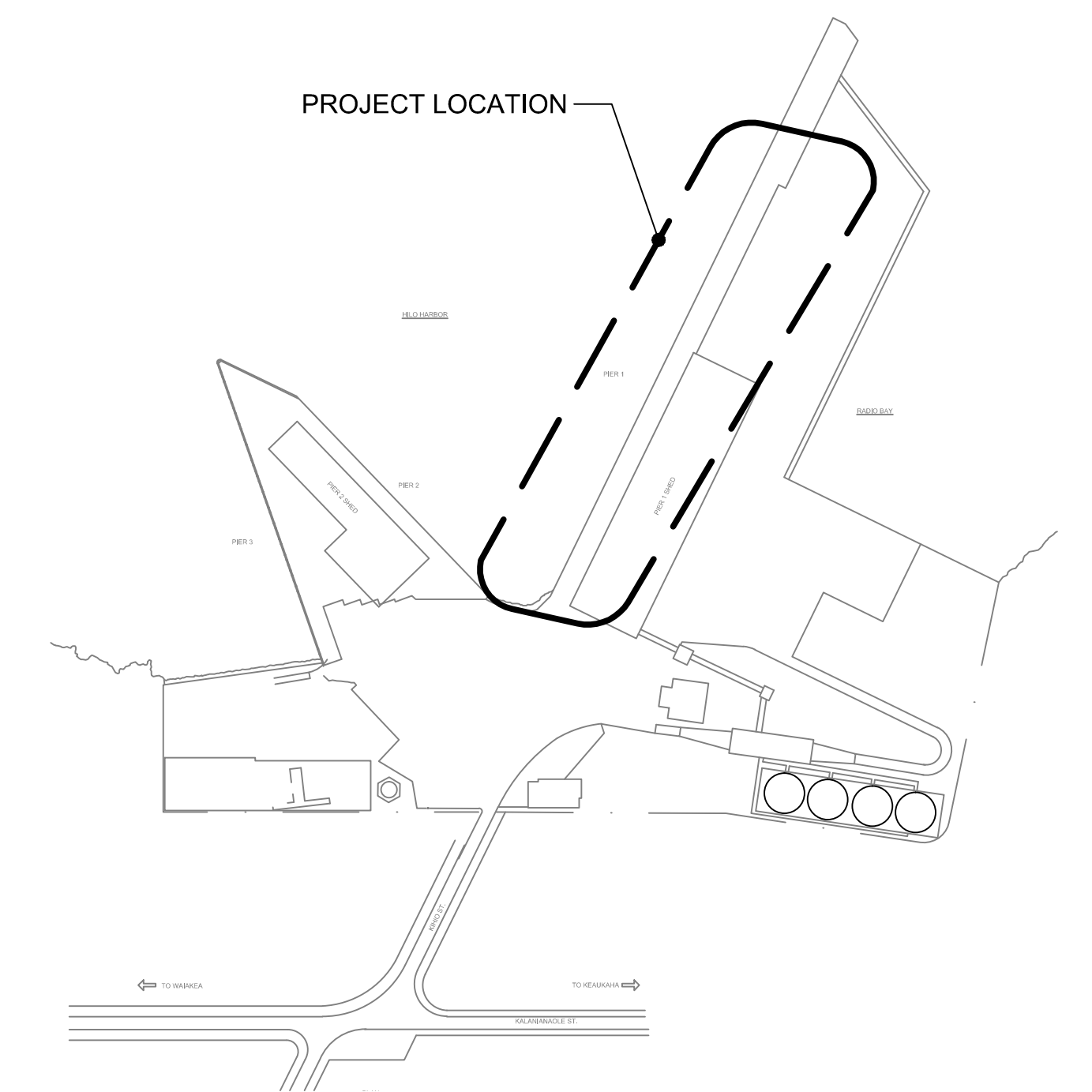
SYMBOL	ABBRV.	DESCRIPTION
	DN	DOWN
	EXIST	EXISTING
	NTS	NOT TO SCALE
	POR	POINT OF REMOVAL
	POC	POINT OF CONNECTION
		TO BE REMOVED
	CW	COLD WATER

# PLUMBING PHASING NOTES

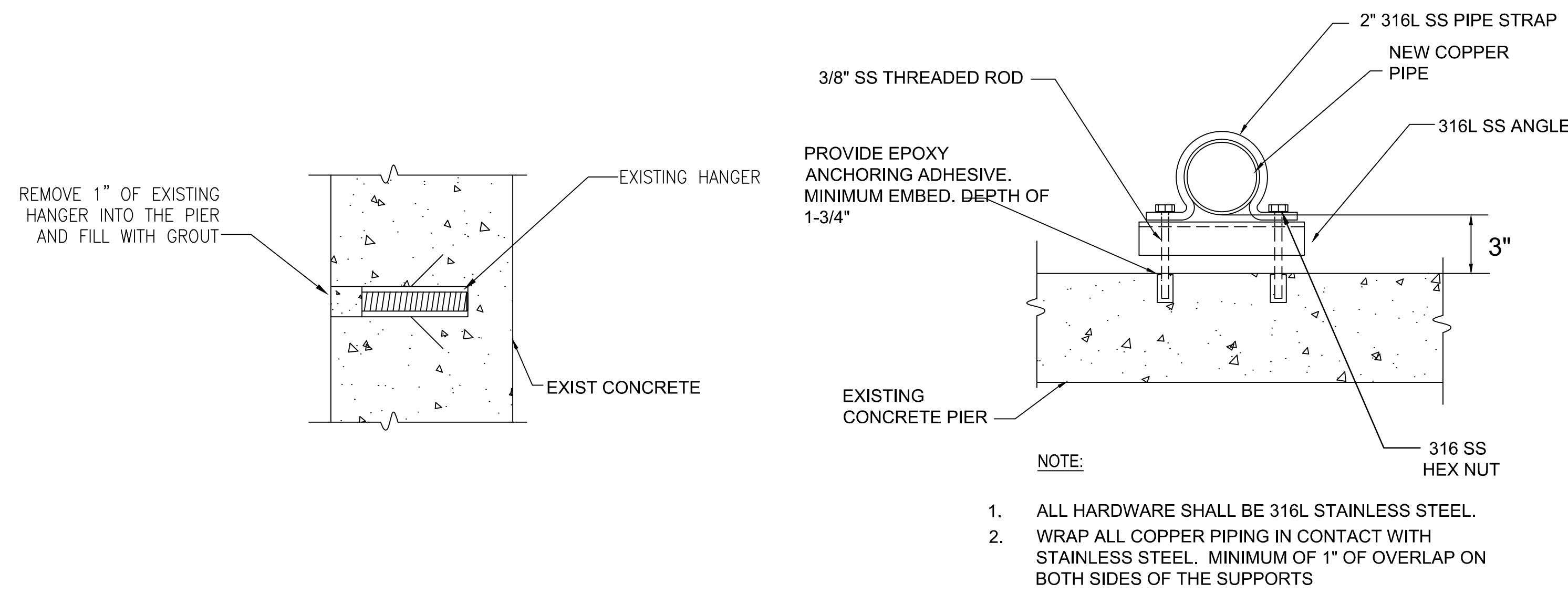
1. THE CONTRACTOR SHALL ONLY WORK ON HALF THE WATER HATCHES AT A TIME TO ALLOW WATER USAGE FROM THE REMAINING HATCHES DURING CONSTRUCTION. THE WATER HATCHES THAT ARE UNDER CONSTRUCTION SHALL BE COORDINATED WITH HARBORS PERSONNEL AND DETERMINED AT THE PRE CONSTRUCTION MEETING.



LOCATION MAP  
NOT TO SCALE



VICINITY MAP  
NOT TO SCALE



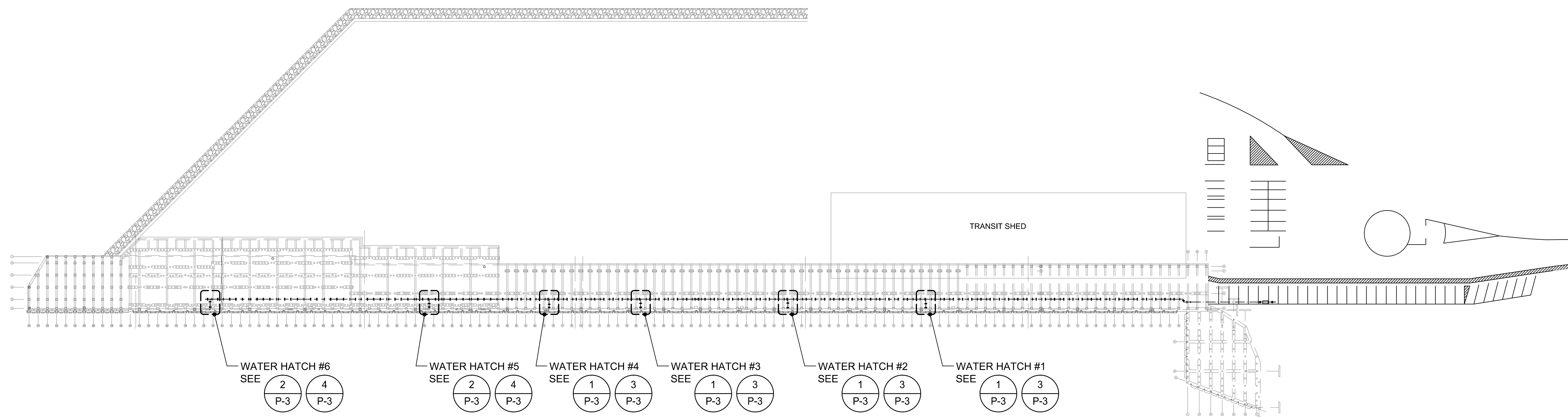
1 PIPE HANGER REMOVAL DETAIL  
P-1 NOT TO SCALE

2 PIPE SUPPORT DETAIL  
P-1 NOT TO SCALE

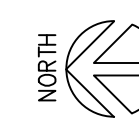
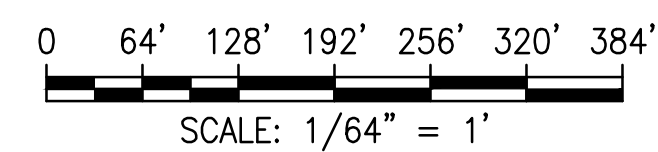
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION EXP 4-30-20

*Barry G. S. Jim On*  
SIGNATURE

REVISION	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR WATER METERS AT PIER 1, HILO HARBOR, HAWAII				
SHEET TITLE PLUMBING GENERAL NOTES AND LEGEND				
SUBMITTED BY:			RECOMMENDED BY:	
SECTION HEAD		ENGINEERING PROGRAM MANAGER		
DESIGNED BY: DT	APPROVED BY:		SHEET	
DRAWN BY: ISE	HARBORS ADMINISTRATOR		<b>P-1</b>	
CHECKED BY: BJO	JOB NUMBER		1 of 3 SHTS.	
DATE: 03/2018	H.C. 50124			
SCALE: AS SHOWN				

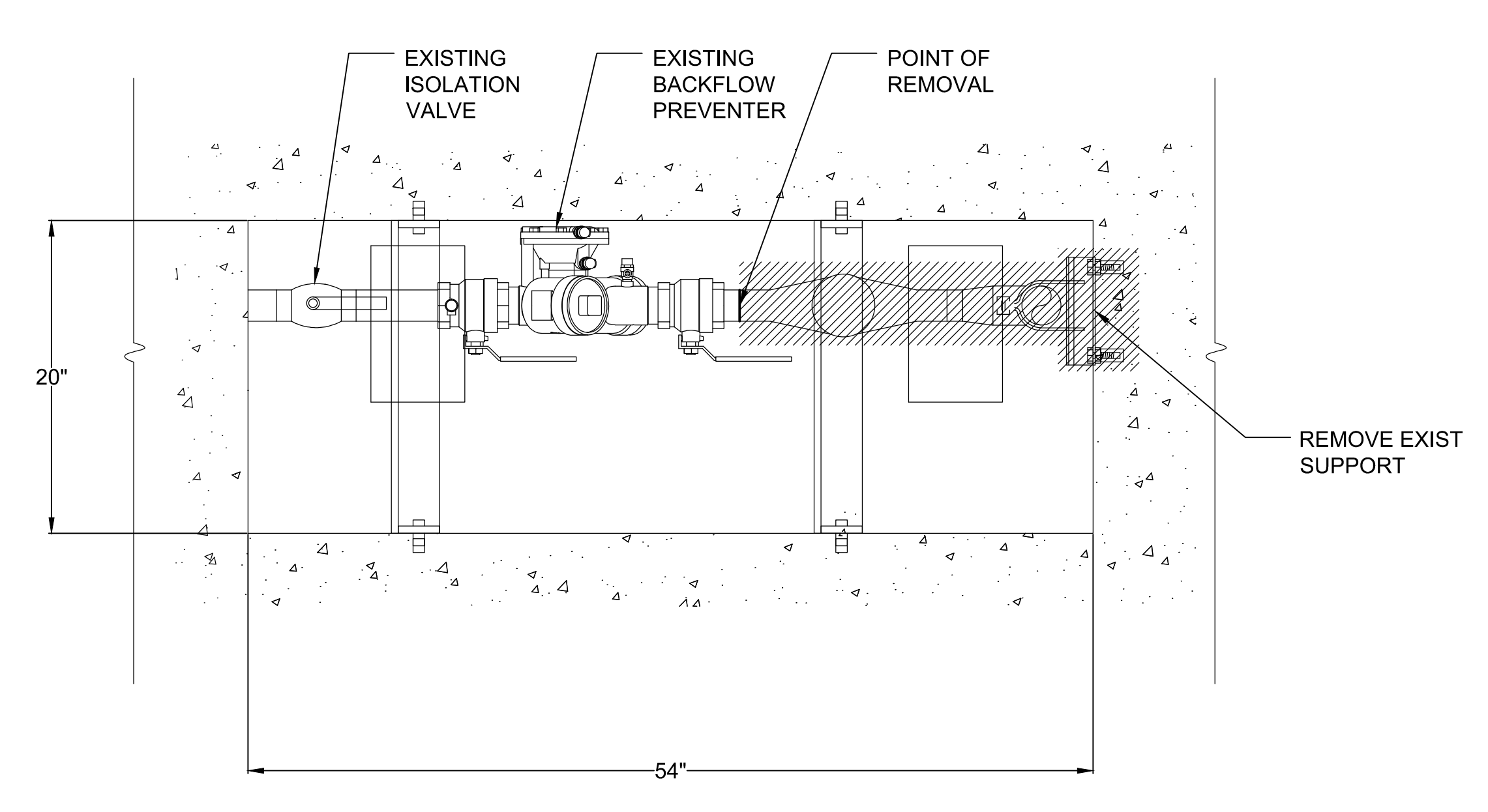
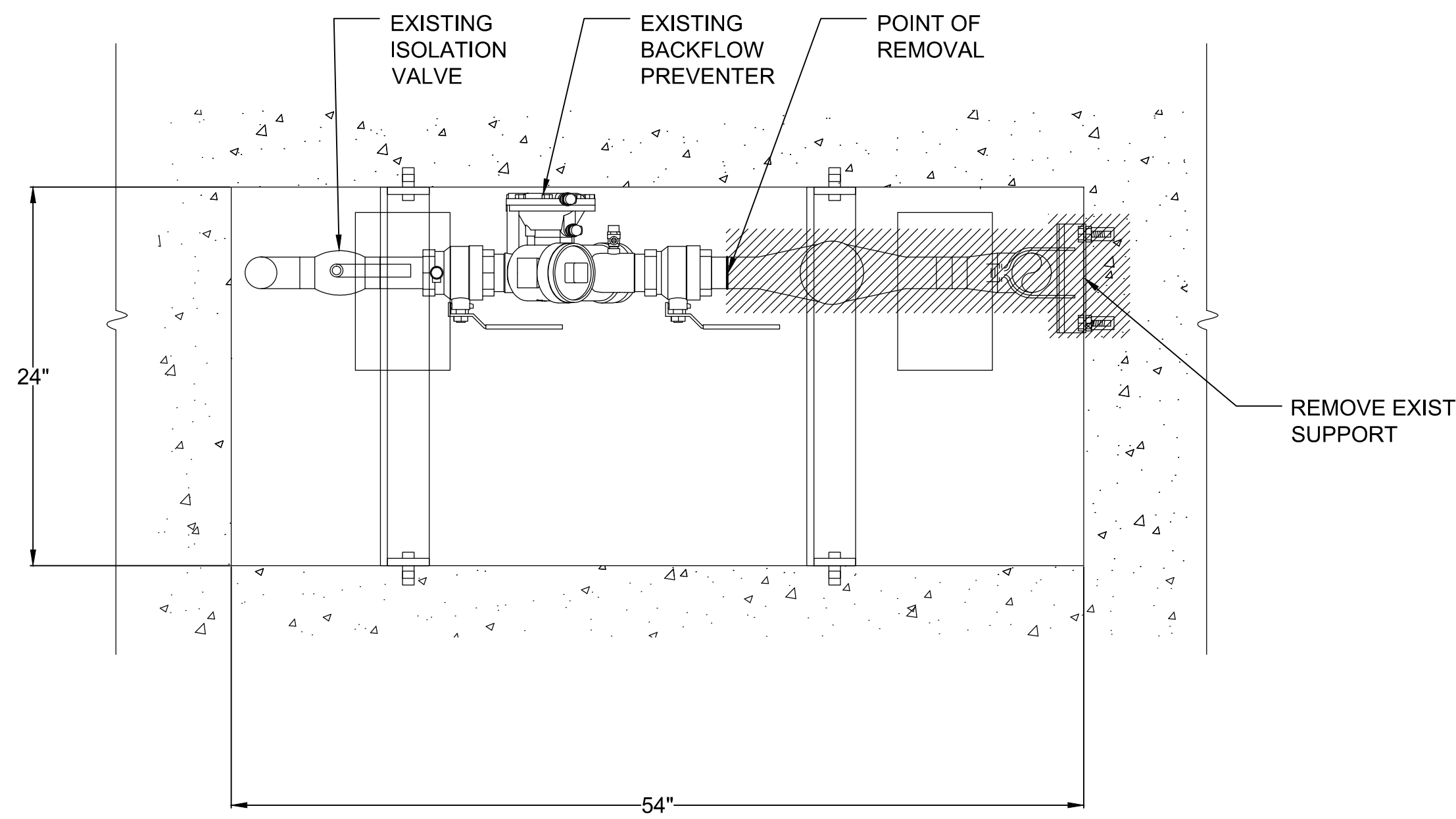


1 OVERALL PLUMBING PLAN  
 P-2 SCALE: 1/64" = 1'-0"



 <small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION EXP 4-30-20</small>	<table border="1"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISION	DATE	DESCRIPTION	BY	APPROVED					
	REVISION	DATE	DESCRIPTION	BY	APPROVED							
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION											
JOB TITLE REPAIR WATER METERS AT PIER 1, HILO HARBOR, HAWAII												
SHEET TITLE PLUMBING OVERALL PLAN												
SUBMITTED BY: _____		RECOMMENDED BY: _____										
DESIGNED BY: DT		APPROVED BY: _____		SHEET <b>P-2</b>								
DRAWN BY: ISE		HARBORS ADMINISTRATOR		2 of 3 SHTS.								
CHECKED BY: BJO		JOB NUMBER										
DATE: 03/2018 SCALE: AS SHOWN		H.C. 50124										

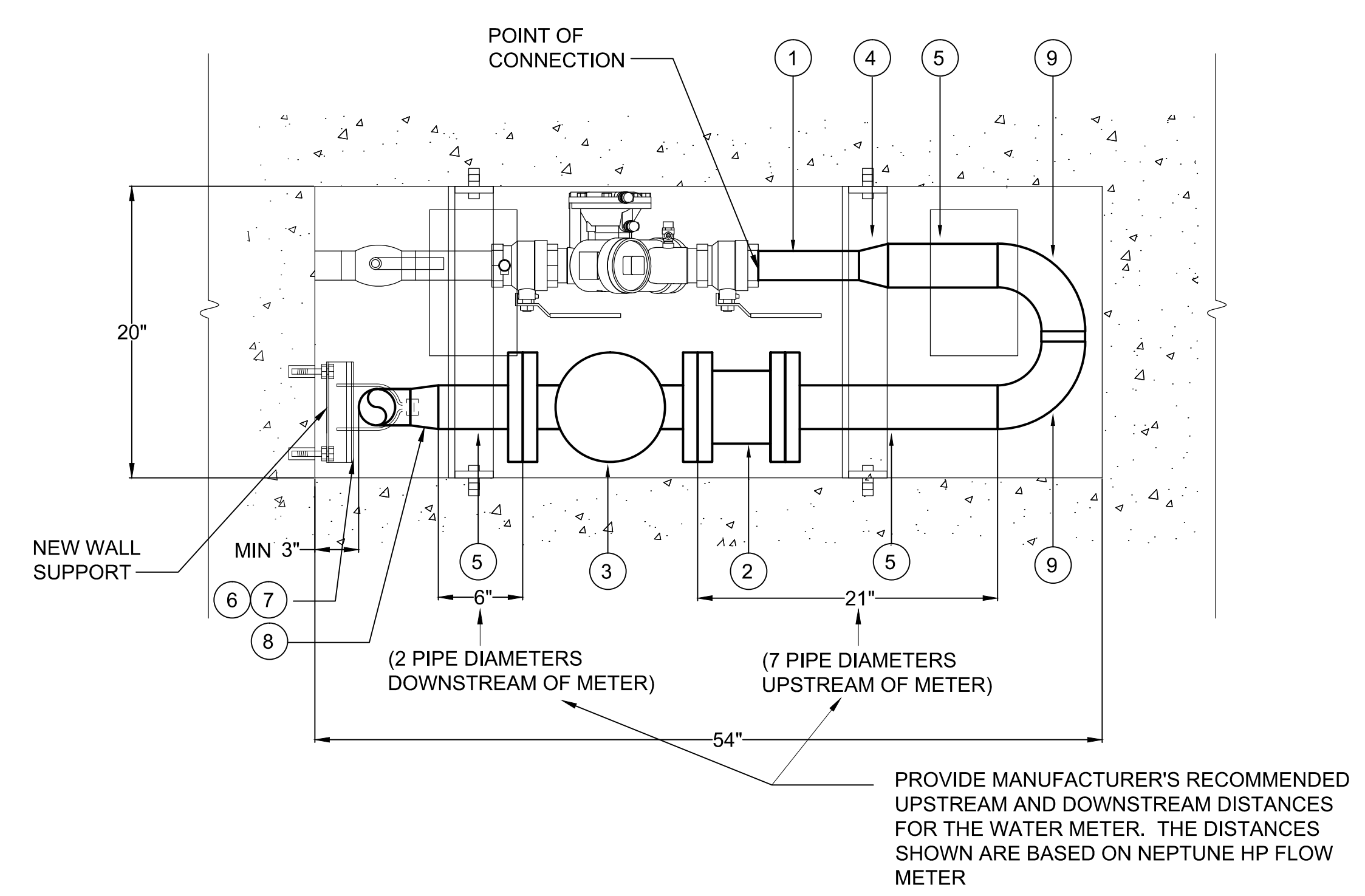
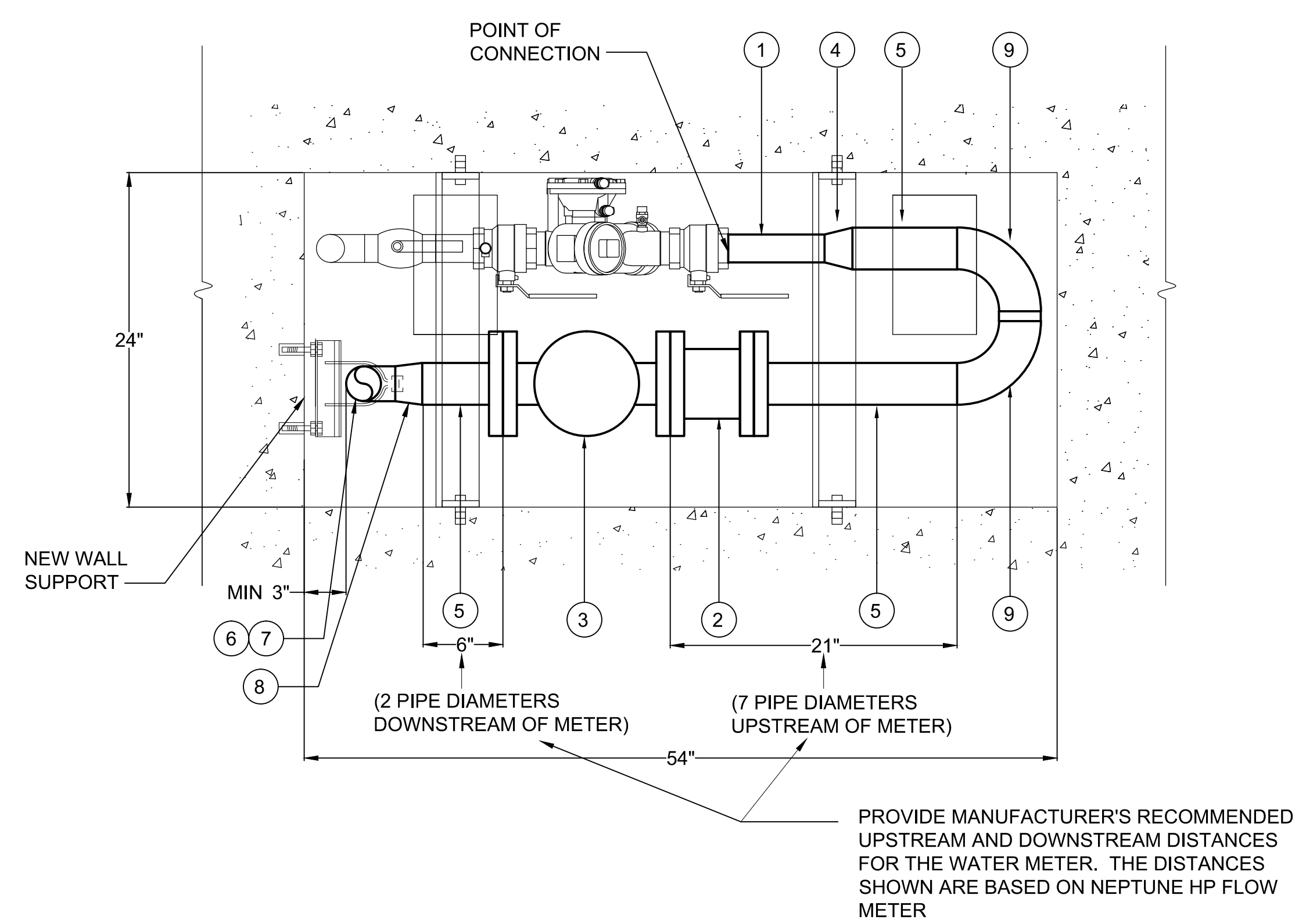
Revised: 03/2018, 03/2018, 03/2018



ITEM	DESCRIPTION
①	2" COPPER PIPING
②	3" STRAINER
③	3" WATER METER
④	2" TO 3" COPPER INCREASER
⑤	3" COPPER PIPING
⑥	2-1/2" 90 DEGREE COPPER ELBOW
⑦	2-1/2" QUICK CONNECT COUPLING AND CAP
⑧	3" TO 2-1/2" COPPER DECREASER
⑨	3" 90 DEGREE COPPER ELBOW

① WATER HATCH #1,#2,#3, AND #4 PLAN - REMOVAL WORK  
P-3 SCALE: NOT TO SCALE

② WATER HATCH #5 AND #6 PLAN - REMOVAL WORK  
P-3 SCALE: NOT TO SCALE



③ WATER HATCH #1,#2,#3, AND #4 PLAN - NEW WORK  
P-3 SCALE: NOT TO SCALE

④ WATER HATCH #5 AND #6 PLAN - NEW WORK  
P-3 SCALE: NOT TO SCALE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
EXP 4-30-20

*Barry G. S. Jim On*  
SIGNATURE

REVISION	DATE	DESCRIPTION	BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
JOB TITLE REPAIR WATER METERS AT PIER 1, HILO HARBOR, HAWAII				
SHEET TITLE PLUMBING ENLARGED PLAN				
SUBMITTED BY:		RECOMMENDED BY:		
SECTION HEAD		ENGINEERING PROGRAM MANAGER		
DESIGNED BY: DT	APPROVED BY:		SHEET	
DRAWN BY: ISE	HARBORS ADMINISTRATOR		<b>P-3</b>	
CHECKED BY: BJO	JOB NUMBER		H.C. 50124	
DATE: 03/2018	SCALE: AS SHOWN		3 OF 3 SHTS.	