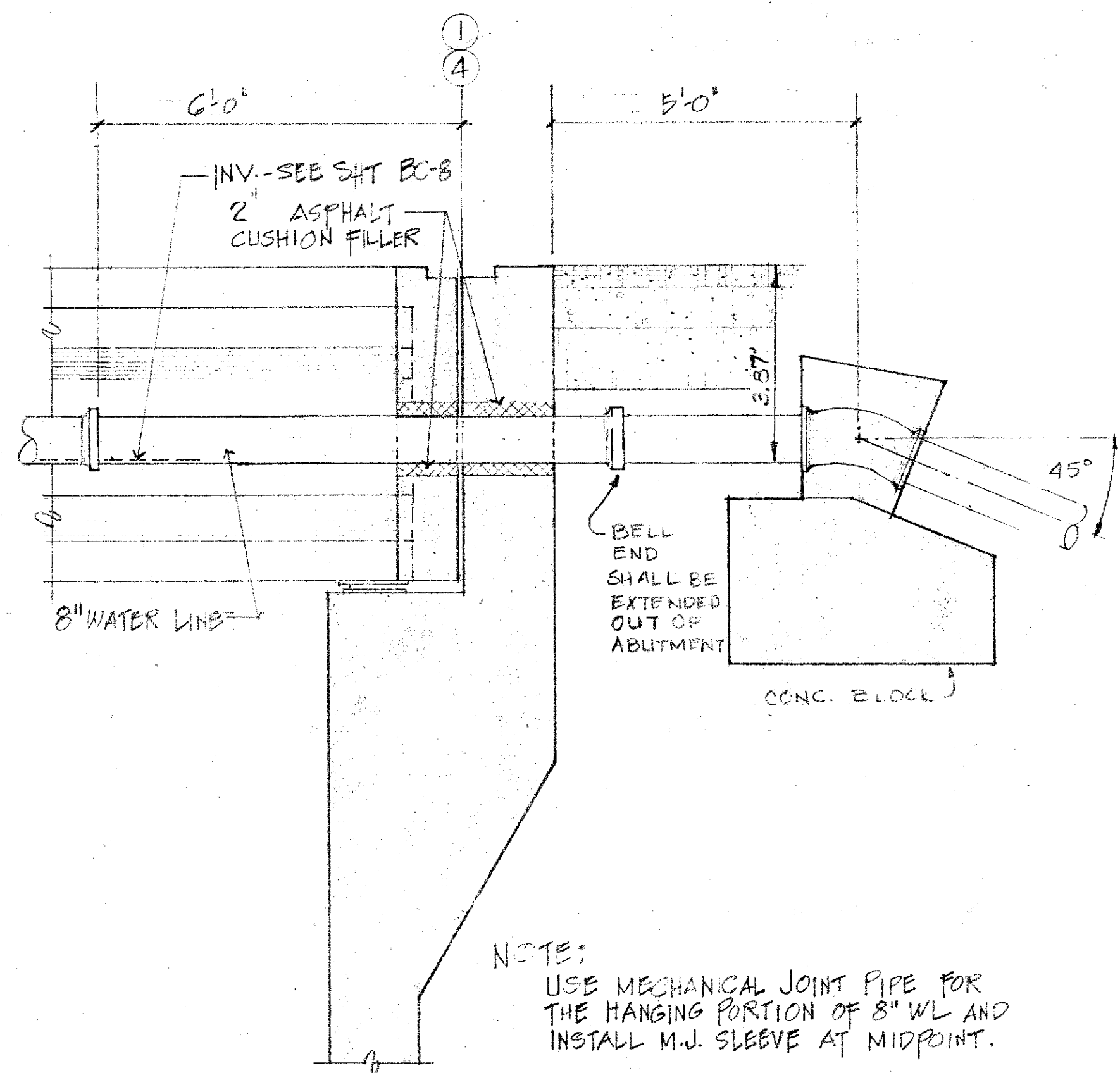
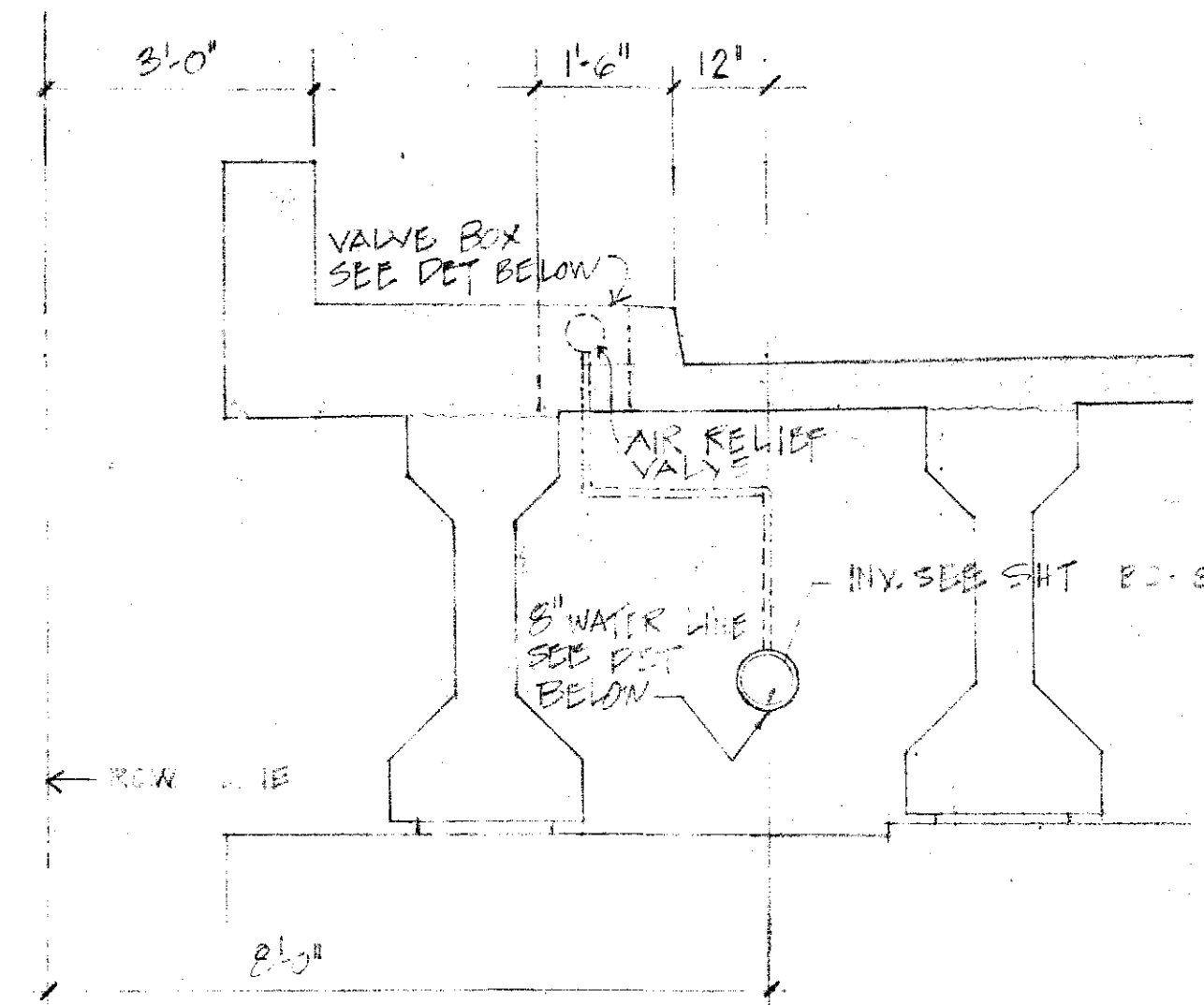


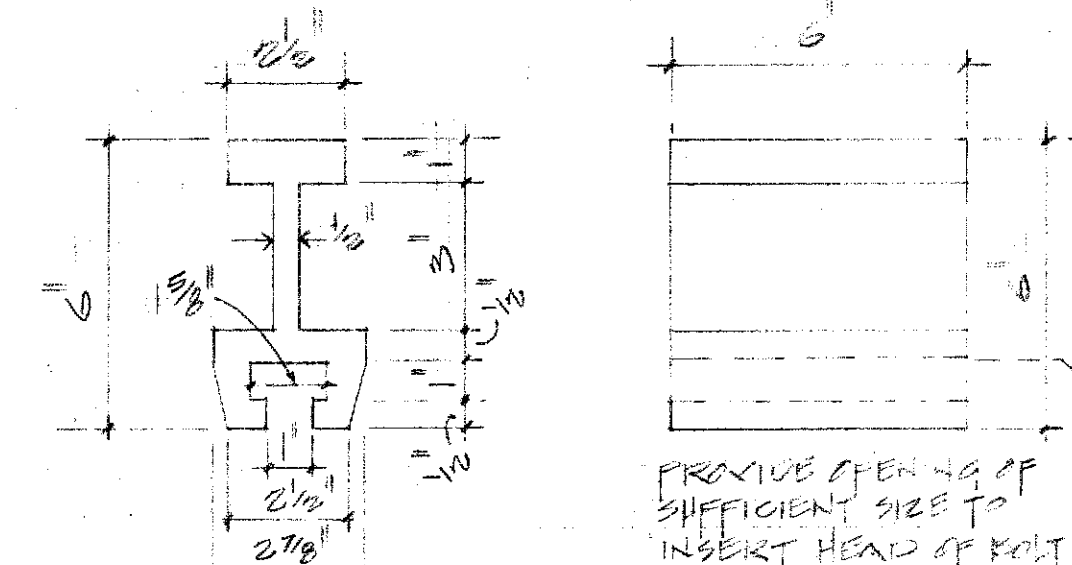


8" WL PENETRATION THRU KANEHE ABUTMENT
KAHUKU ABUTMENT SIMILAR SC: 1/2" = 1'-0"



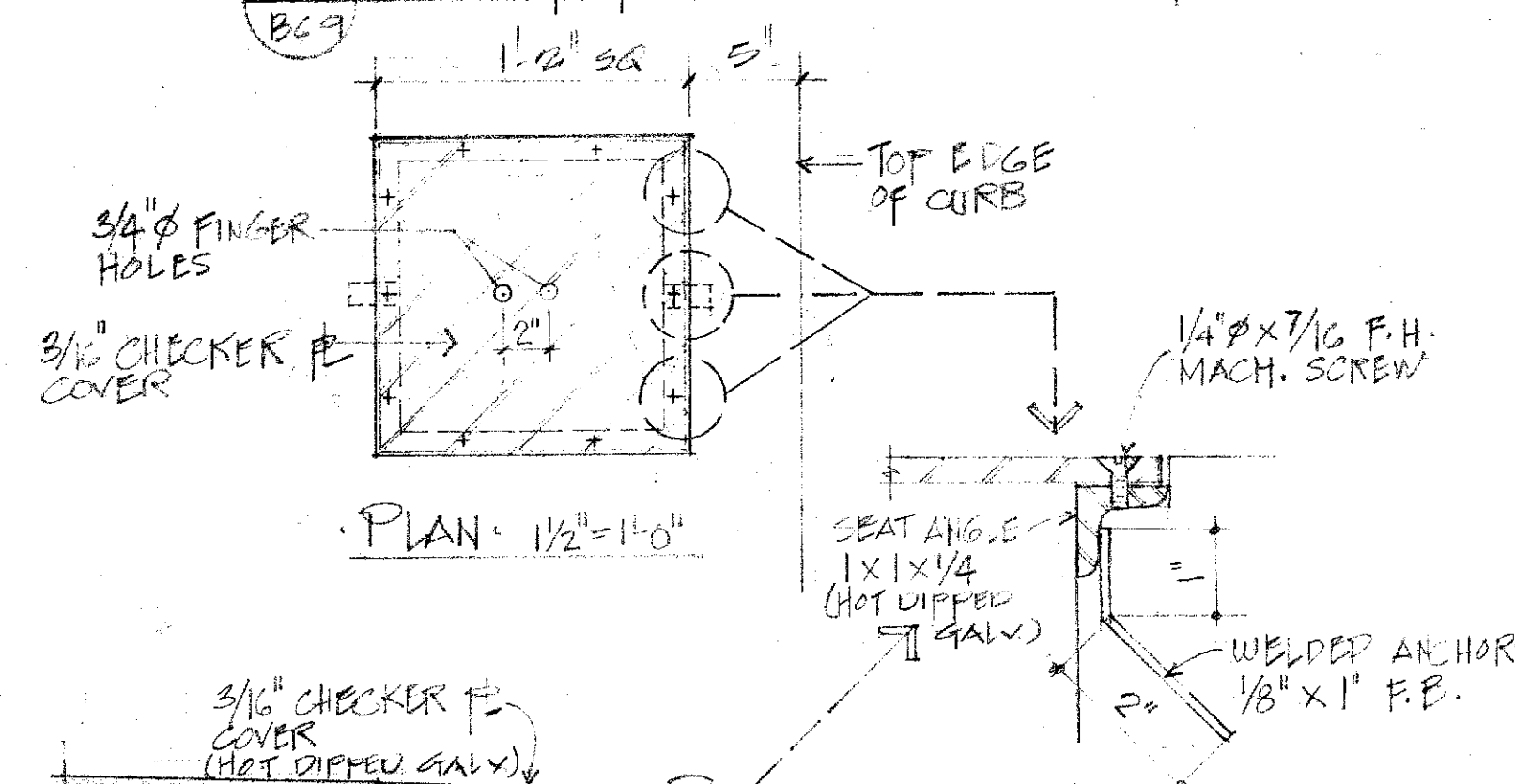
SECTION
1/2" = 1'-0"

- WATER NOTES (CONTINUED)
- CONNECTION TO EXISTING WATER MAINS AND CHLORINATION OF NEW MAINS SHALL BE DONE BY THE CONTRACTOR, WITH THE BWS INSPECTOR COORDINATING THE WORK. FOR DETAILS CONTACT BWS, ENGR. DIV., CONSTRUCTION SECTION.
 - CONTRACTOR SHALL NOTIFY THE BWS, IN WRITING, ONE WEEK PRIOR TO COMMENCING WORK ON THE MAINS.
 - ALL EXISTING WATER METERS AND BOXES NOT RETAINED SHALL BE SALVAGED.

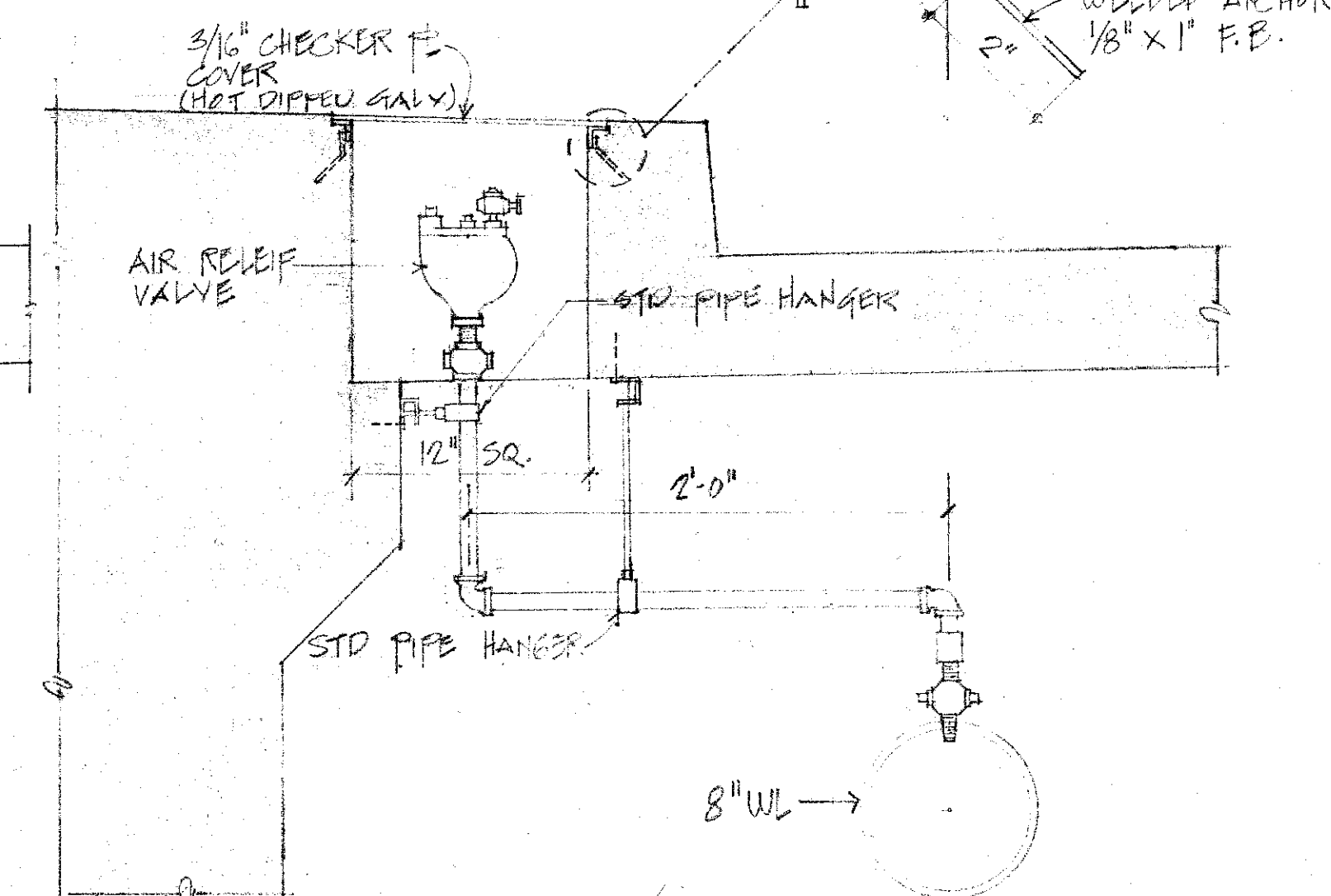


NOTE:
TAKE PROPER PRECAUTIONS TO PREVENT CONG. FROM FLOWING INTO OPENING OF INSERT.

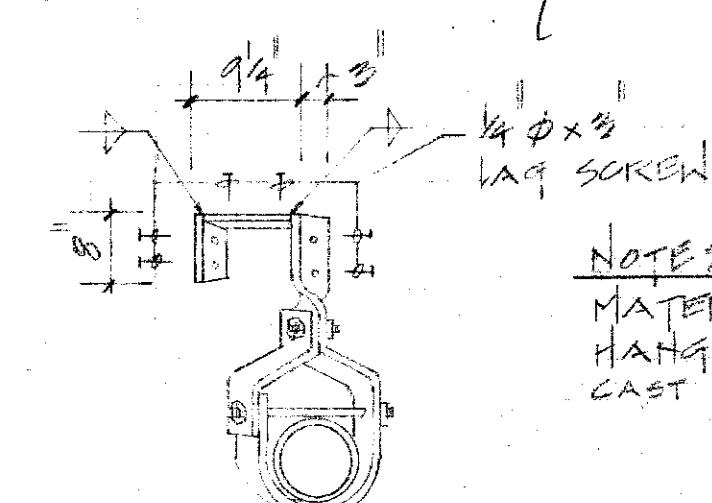
PIPE HANGER DETAIL



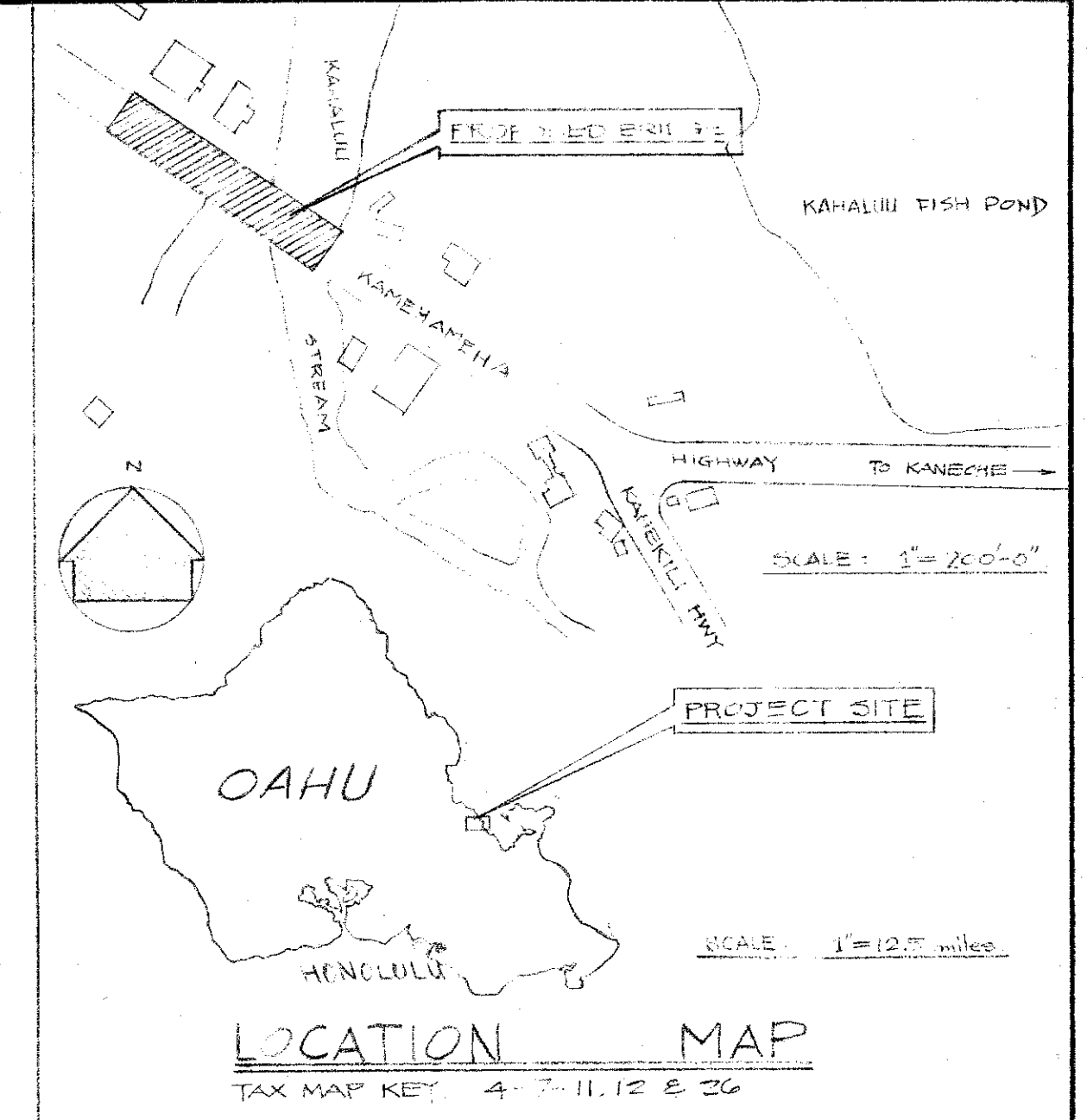
PLAN 1/2" = 1'-0"



RELIEF VALVE and BOX DET.
SC: 1/2" = 1'-0"



2" x 1/4" FLAT BAR HANGER DETAIL
NTS



WATER NOTES

- UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HONOLULU BOARD OF WATER SUPPLY'S WATER SYSTEM STANDARDS, DATED MARCH, 1977 AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
- ALL PLANS APPROVED BY THE BOARD OF WATER SUPPLY ARE BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY. DISCREPANCIES IN ANY OF ALIGNMENTS, GRADES, FITTINGS, ETC. SHALL BE THE RESPONSIBILITY OF THE ENGINEER WHO PREPARED THE PLANS.
- PRIOR TO EXCAVATING FOR NEW DRAIN, SEWER OR OTHER UTILITY WHOSE THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATER MAINS & APPURTENANCES.
- WHERE THE INSTALLATION OF NEW DRAIN, SEWER OR OTHER UTILITY WHOSE ARE TO CROSS OR UNDER EXISTING WATER MAINS THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN PRIOR TO TRENCHING, EXCAVATION AROUND WATER MAIN SHALL BE DONE BY HAND.
- THE EXISTENCE & LOCATION OF UNDERGROUND UTILITIES & STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THE ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL BEAR FOR ALL DAMAGES TO EXISTING UTILITIES.
- TEST PRESSURE SHALL BE 100 PSI FOR 8" MAIN, 200 PSI FOR 30" MAIN.
- COST OF MAINTENANCE OF 8" TEMPORARY WATER MAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTINUITY OF WATER SERVICE SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES.
- RE-APPROVAL SHALL BE REQUIRED IF THIS PLAN IS NOT UNDER CONSTRUCTION WITHIN A PERIOD OF ONE YEAR (SEE RULES & REGULATIONS OF THE BOARD OF WATER SUPPLY).
- ALL DUCTILE IRON WATER MAINS & FITTINGS BELOW ELEVATION 142.0' SHALL BE ENCASED IN PLASTIC MATERIAL IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.5-72 OR AWWA SPECIFICATIONS C105-72. POLYETHYLENE ENCASEMENT FOR GREY DUCTILE CAST IRON PIPING FOR WATER & OTHER LIQUIDS (PERMANENT MAIN ONLY).

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE			
NO.	DATE	DESCRIPTION	ENGR. DEPT. OR DIV.
REVISIONS			
APPRO'D			
DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU DIVISION OF ENGINEERING KAMEHAMEHA HIGHWAY BRIDGE OVER KAHALUU STREAM KAHALUU, OAHU, HAWAII WATER DETAILS			
ENGINEER	MY	DATE	6/17/77
DRAFTSMAN	REL	CHECKED BY	
APPROVED		APPROVED	
CHIEF, DIVISION OF ENGINEERING		CHIEF, PLANNING & SURV. DIV.	
JOB NO. 38-77		DWG. NO. 7-E-23094	

TEMPORARY 8" WL DET
1/2" = 1'-0"

PIPE HANGER DET
SC: 1/2" = 1'-0"