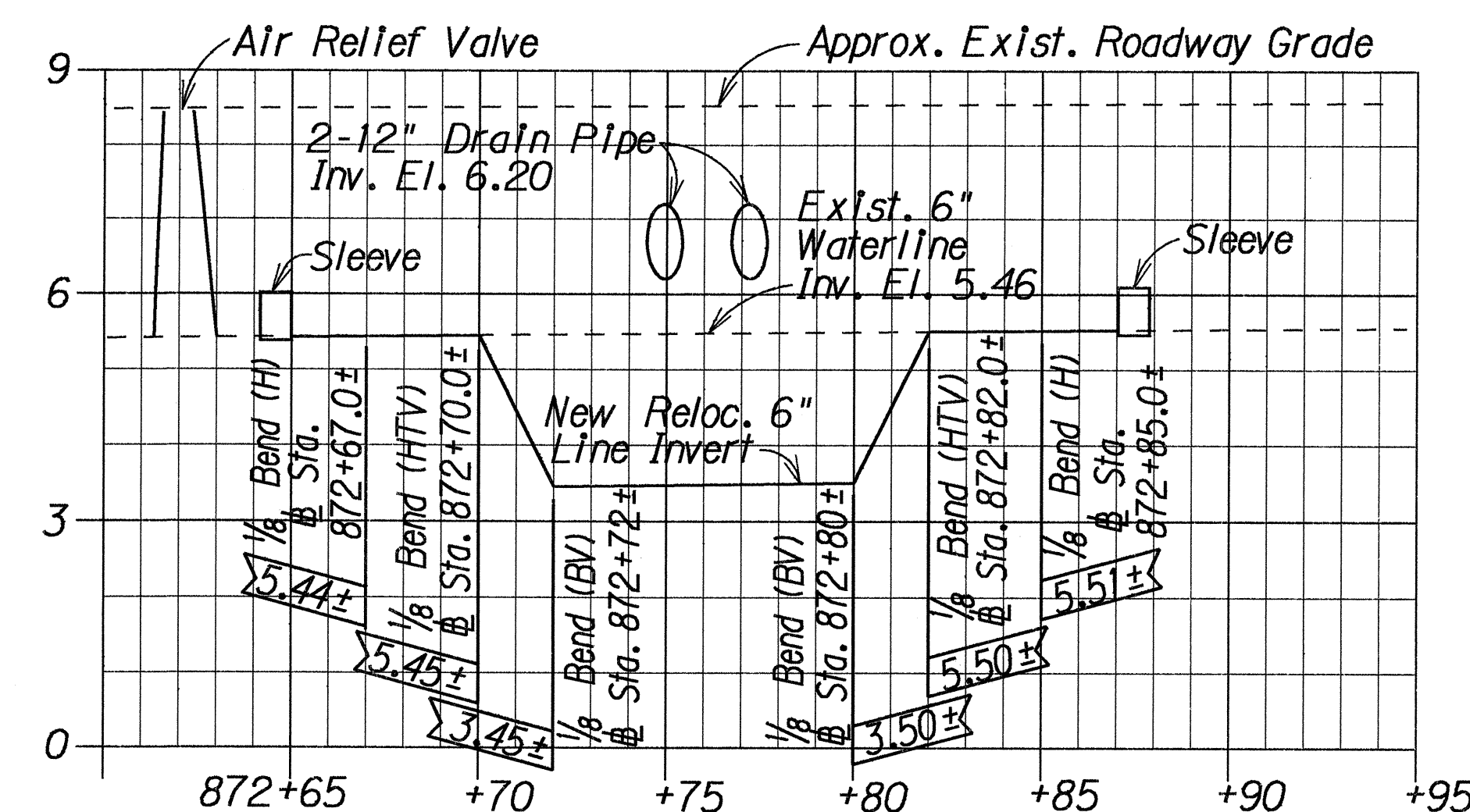
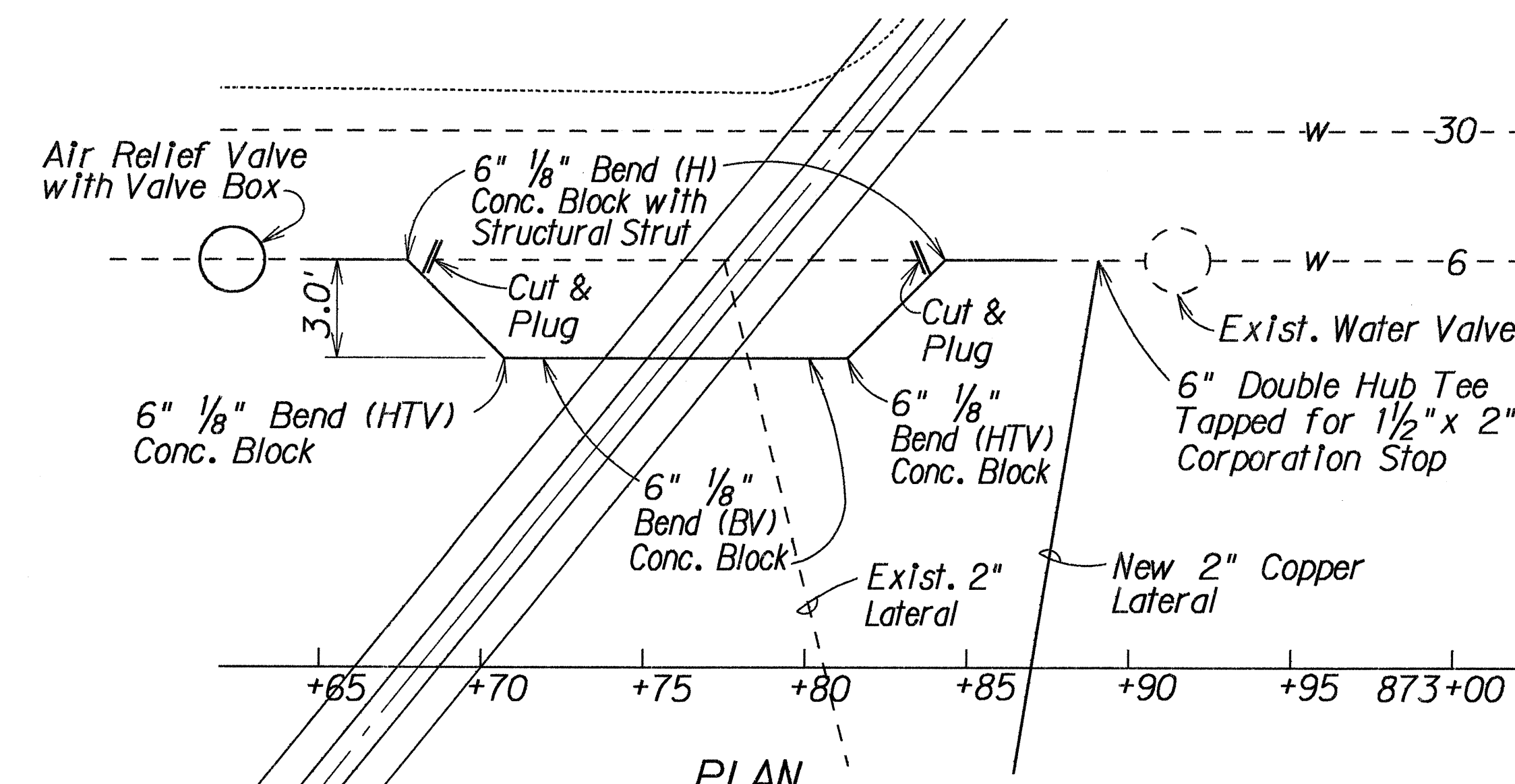


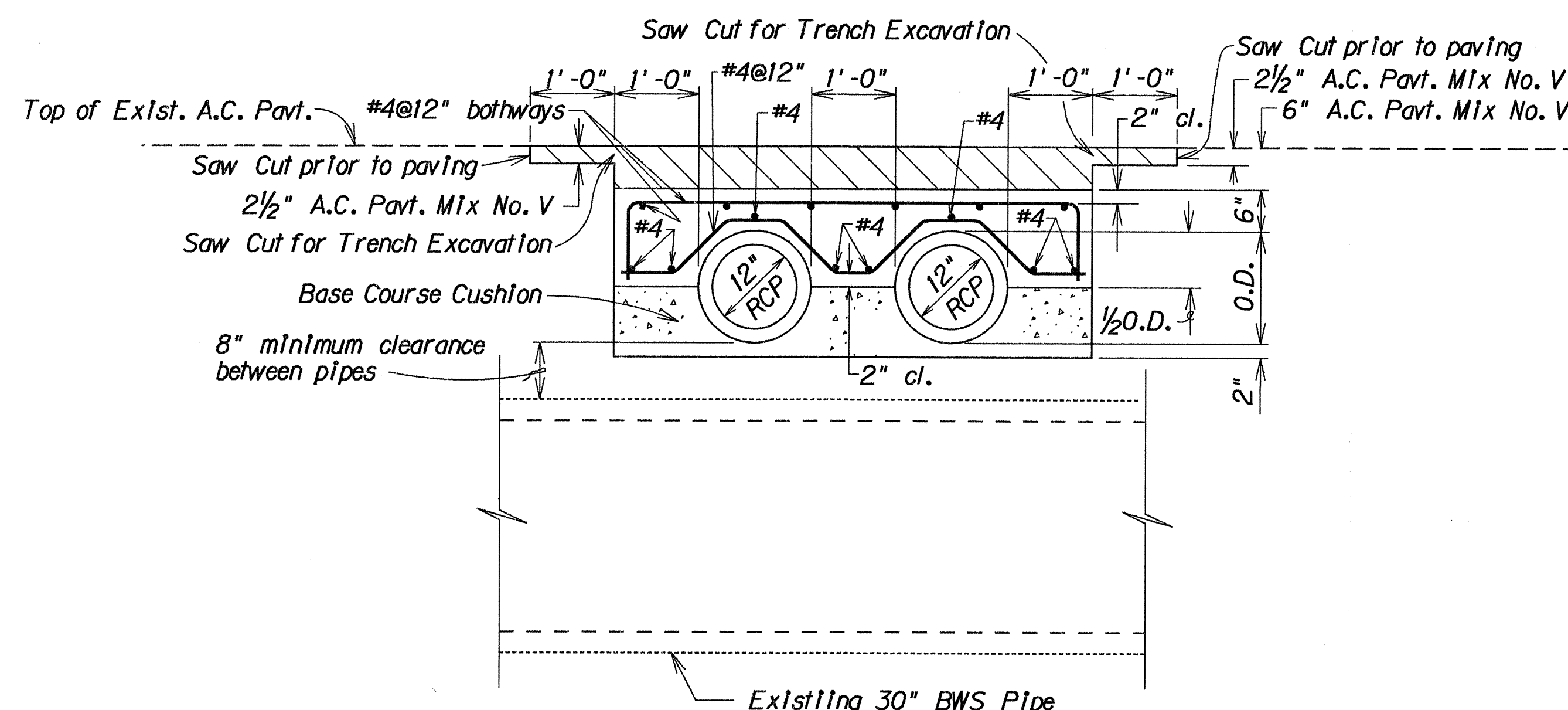
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-91	1992	9	9

WATER NOTES

- Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, dated 1985, as amended, of the Hawaii Highways Division, Department of Transportation, and the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARDS" VOLUME 1, DATED 1985, AND THE "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION", Volume 2, dated 1985, and all subsequent amendments and additions.
- Test pressure shall be one of the following:
 - Prevailing line pressure, joints left exposed for 24 hours to check for leaks prior to backfill.
 - 150 psi.
- Prior to installation, the Contractor shall submit for approval by Board of Water Supply, the manufacturer's certification that all cast iron (gray or ductile) fittings for the project conform in all respects to the Water System Standards, dated 1985.
- The Contractor shall notify BWS Planning and Engineering Division, Construction Section one week prior to commencing work on the water system.
- The Contractor shall cut and plug all existing unused laterals at the main whether or not shown on the plans. The damaged area shall be repaired to an equal or better condition than the immediate area. All work shall be done at the expense of the Contractor.
- The installation, chlorination and testing of the water main and facilities after the meter shall not be the responsibility of the Board of Water Supply.
- The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water lines, tees and bends wherever there is a possibility of water line improvement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measure necessary to protect the water lines, such as constructing special reaction blocks (with BWS approval) and/or modifying his construction method.
- The existence and location of underground utilities and 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 pay for all the damages to existing utilities.
- Polygon shape for mechanical joint glands as described in AWWA Standard C111 shall be "straight-sided" or an approved equal on a job to job basis.
- Re-approval shall be required if this project is not under construction within a period of two years.
- The Contractor shall chlorinate the entire inside surface of each pipe and fitting with disinfection solution of 5 ounces of sodium hypochlorite mixed with 10 gallons of water.
- All waterline construction requiring shutdown shall be scheduled for normal working hours and maximum downtime shall be six (6) hours, to be done concurrently at both connections.



6" WATERLINE ADJUSTMENT
AT STA. 872+76±



DETAIL OF CONCRETE JACKET
Scale: 3/4" = 1'-0"

12/28/91	Revised dimension for Detail of Concrete Jacket
DATE	REVISION

APPROVED:

For [Signature]
CHIEF, PLANNING & ENG. BWS
11/20/91
Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WATER NOTES AND DETAILS
Kamehameha Highway
Drainage Improvements In the
Vicinity of Swanzy Park
Proj. No. 83D-01-91
Scale: As Shown
SHEET No. 1 OF 1 SHEETS

Date: June, 1991