

WATER NOTES

- Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the HAWAII STANDARD WORKS CONSTRUCTION, dated 1994, of the Hawaii Department of Transportation, Highways Division, and the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARDS," Volume 1, dated 1985, the "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION," Volume 2, dated 1985, the "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS," Volume 3, dated 1991, 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. All other features of the water system, such as lines, grades, fittings, drainage, etc., and other features of improvements shall not be the responsibility of the Board of Water Supply.
- The existence and location of underground utilities and structures as shown on the plans are from the latest available data but are not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and pay for damages to existing utilities. The Contractor shall not assume that where no utilities are shown, that none exist.
- 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 movement 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.
- Reapproval shall be required if this project is not under construction within a period of two years.
- At the electrical/signal ductline water crossings, adjust all electrical/signal ductline elevations to maintain 6" vertical clear separation from all water lines (12" clear for all electrical/signal ductline structures larger than 16") at no cost to the Board of Water Supply.
- Maintain 3'-0" minimum horizontal clear separation between all water line systems and nearest electrical/signal ductlines paralleling the water system at no cost to the Board of Water Supply.
- The Contractor shall notify BWS Planning and Engineering Division, Construction Section, one week prior to commencing work on the water system.
- The Contractor shall verify all existing service lateral locations whether shown or not shown on plans prior to commencing with any of the work and shall not assume that where no services are shown, none exist.
- Prior to any excavating, the Contractor shall verify in the field the location of existing water mains and appurtenances.

- Maintain 3'-0" minimum cover for all existing water lines (18" minimum for service laterals) and submit the probing data to BWS Construction Section.
- Maintain 3'-0" min. horizontal clear separation between street light/traffic signal, standards (including any modular units) and the nearest water system. Contractor shall field verify for any conflicts at each street light/traffic signal standard location. Where conflicts occur, the Contractor shall coordinate with the project engineer to revise the street light/traffic signal standard to provide the required clearances at no cost to the BWS.

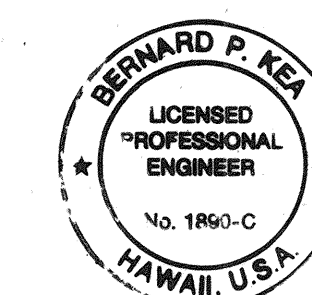
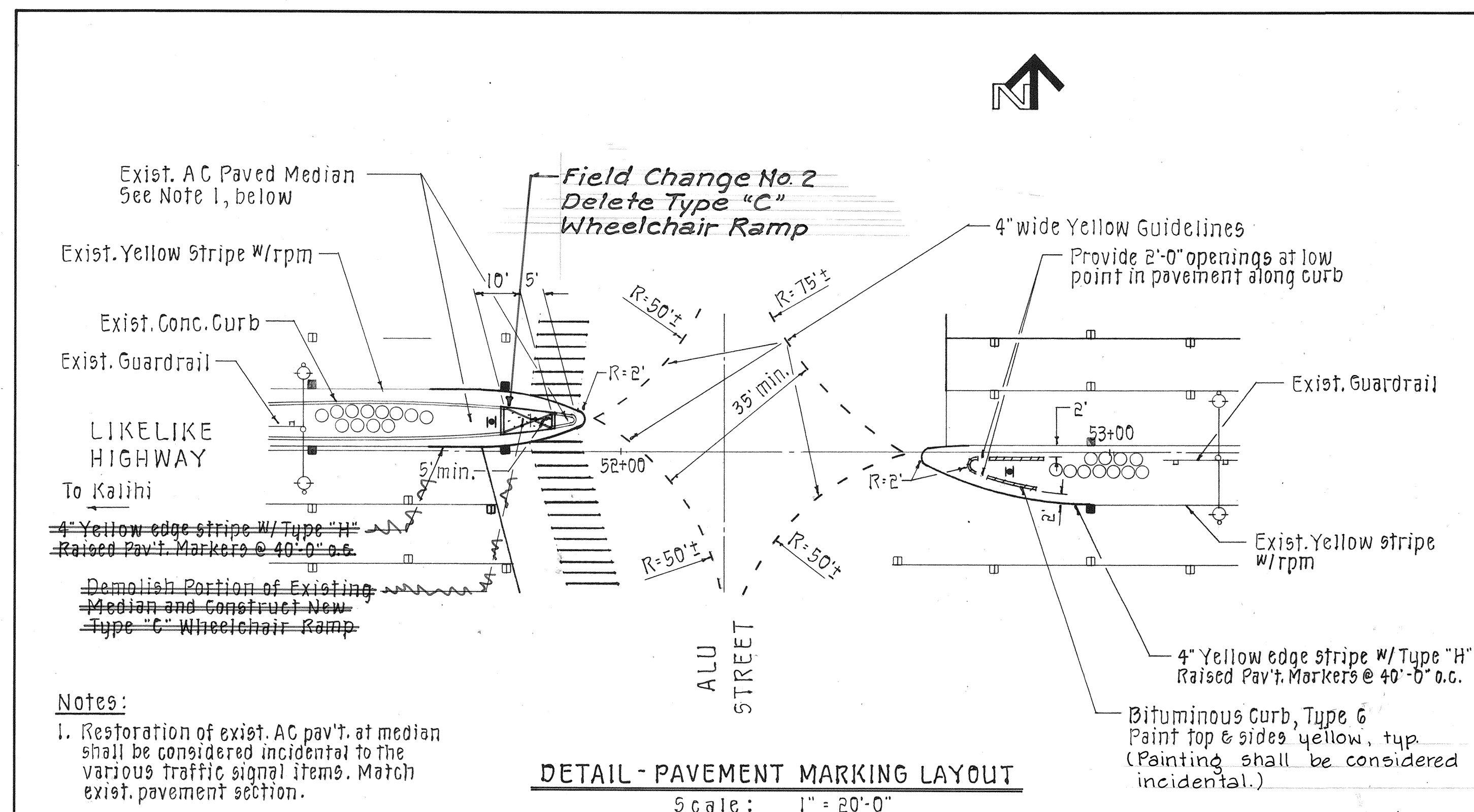
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	63A-02-96	1997	4	19

LEGEND

.....	P. C. C. Areas
o 22	Existing Joint Pole
—w12—	Existing 12" Water Line
o wmh	Existing Water Manhole
—fh	Existing Fire Hydrant
—A12—	Existing Sewer Line
—pvc6—	Existing 6" Subdrain
• mon	Existing Monument
—d24—	Existing 24" Drain Line
o dmh	Existing Storm Drain Manhole
□ qi	Existing Drop Inlet
□ cb	Existing Catch Basin
⊙	Existing Highway Lighting Standard
—gts—	Existing Joint Trunking System
88888	Existing Inertial Barrier
⊞	New Traffic Signal Pole
•	New Traffic Signal Pole w/Sign(s)

APPROVED: DATE

for *[Signature]* 1/28/97
CHIEF, PLANNING & ENGINEERING DIVISION,
BOARD OF WATER SUPPLY,
CITY & COUNTY OF HONOLULU



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

[Signature]

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC NOTES &
PAVEMENT MARKING DETAILS
LIKELIKE HIGHWAY
INTERS. IMPROVEMENTS AT ALU ST.
PROJECT NO. 63A-02-96

SCALE: AS NOTED DATE: FEB. 1997
SHEET NO. 2 OF 2 SHEETS