

STA 113+05
(% 19'± RT)
CONNECT TO EXIST 16"
WATER LINE
INSTALL:
1-16" SOLID BODY SLEEVE
3± LF OF 16" D.I. PIPE, CL 52
2-16" MEGA-LUG RETAINER GLANDS
INV=45.0± (E/16")
ALL INSTALLATION TO BE
COMPLETED ON THE SAME
DAY AS HOOK-UP

NOTES:

1. MAXIMUM DOWN TIME OF EXIST WATER LINE TO BE 4 HOURS
2. REMOVE AND DISPOSE EXIST 16" WATER LINE AT CONNECTION POINTS. EXIST 16" WATER LINE BETWEEN STA 113+10± AND STA 119+70± TO BE ABANDONED IN-PLACE.

STA 119+70
(% 19'± RT)
INSTALL:
1-16" 1/8 BEND
2-16" MEGA-LUG RETAINER GLANDS
1-CONC BLOCK
INV=45.35
INSTALLATION TO BE
COMPLETED ON THE SAME
DAY AS HOOK-UP

27± LF OF REINF
CONC JACKET

STA 119+75
(% 19'± RT)
CONNECT TO EXIST 16"
WATER LINE.
INSTALL:
1-16" SOLID BODY SLEEVE
3± LF OF 16" D.I. PIPE CL 52
2-16" MEGA-LUG RETAINER GLANDS
INV=45.6± (E/16")
ALL INSTALLATION TO BE
COMPLETED ON THE SAME
DAY AS HOOK-UP

STA. 119+78
(% 19'± RT.)
INSTALL:
1-1" ARV & BOX
SEE DETAIL
THIS SHEET

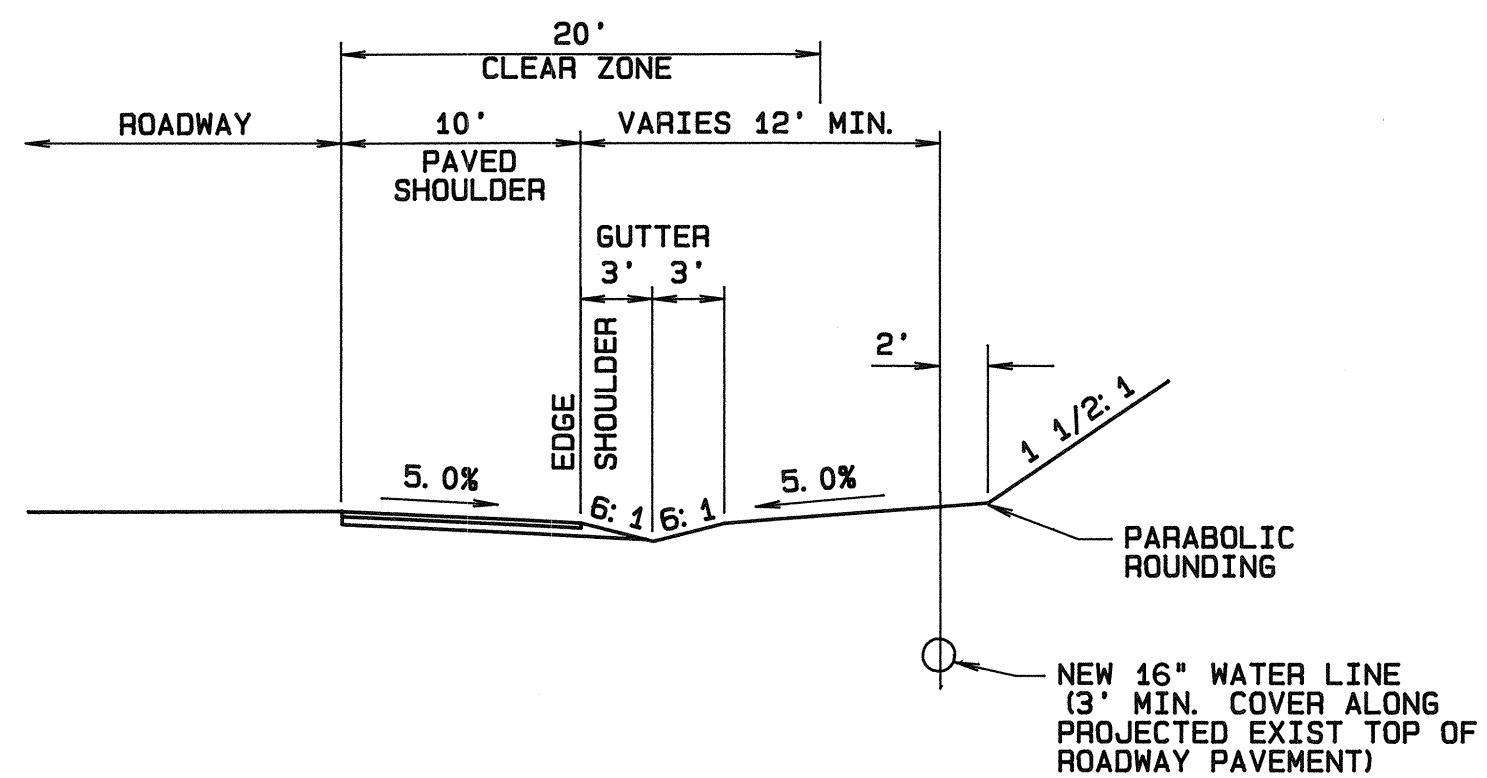
STA 119+55
(% 34' RT)
INV=43.34

ELEC. DUCT TO BE DEMOLISHED
AND REMOVED AT NEW 16" WATER
LINE CROSSING. LENGTH AS REQUIRED.
REINSTALL NEW 2" STREET LIGHT
CONDUIT. PROVIDE 18" CLEARANCE
BELOW NEW 16" WATER LINE.
SEE ELEC. PLANS SHTS E-8
AND E-10 FOR DUCT SECTIONS.

STA 119+37
(% 52' RT)
INSTALL:
1-16" 1/8 BEND
1-CONC BLOCK
INV=42.50

STA 119+48
(% 41' RT)
INV=42.70

ELEC DUCT TO
BE DEMOLISHED AND
REMOVED AT NEW 16"
WATER LINE CROSSING.
ABANDON EXIST STUB-OUT
IN PLACE. REINSTALL NEW
2-2" STREET LIGHT
STUB-OUT PARALLEL TO
EXIST STUB-OUT. PROVIDE
18" CLEARANCE BELOW
NEW 16" WATER LINE.
SEE ELEC. PLANS SHTS.
E-8 AND E-10 FOR DUCT
SECTION.

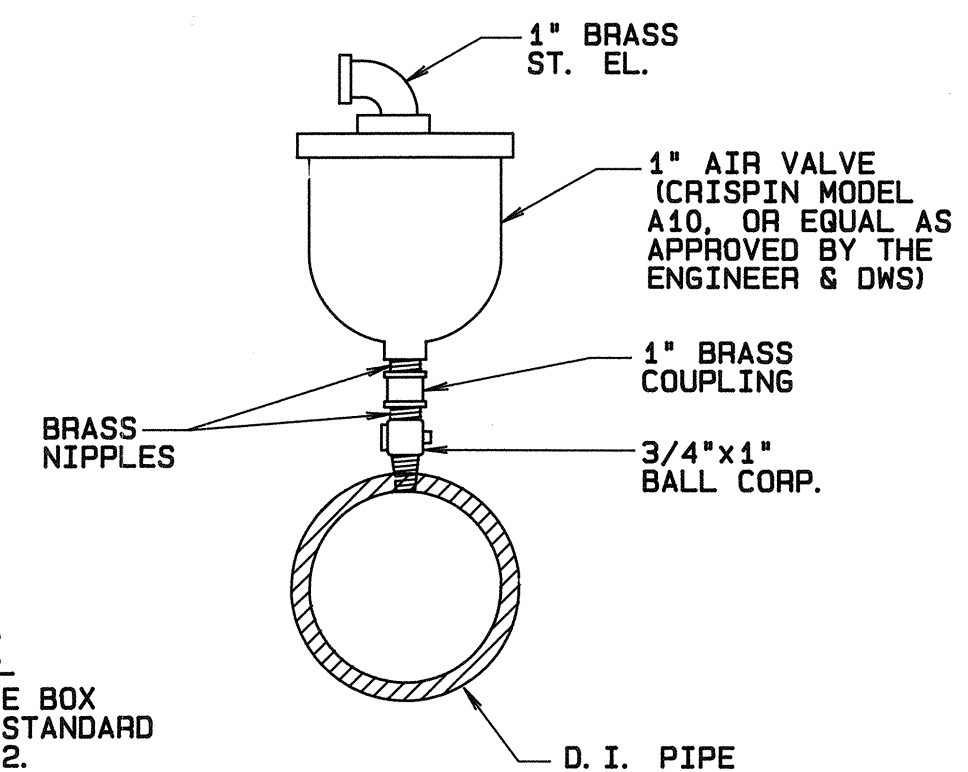
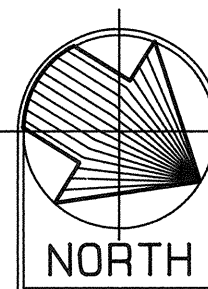


WATER LINE RELOCATION TYPICAL SECTION QUEEN KAAHUMANU HIGHWAY 113+43 TO 119+37

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

WATER LINE RELOCATION PLAN

SCALE: 1"=40'



NOTE:
FOR VALVE BOX
SEE DWS STANDARD
DETAIL 22.

1" AIR VALVE UNIT DETAIL

NOT TO SCALE

APPROVED:

MANAGER, DEPT. OF WATER SUPPLY
COUNTY OF HAWAII

BELT COLLINS & ASSOCIATES
Engineering • Planning • Landscape Architecture
680 Ala Moana Boulevard Suite 200 Honolulu, Hawaii 96813
Phone: (808) 521-5361 Telex: BELTH 7430474 Fax: (808) 538-7819

Consultant:

Client:
**HOUSING FINANCE AND
DEVELOPMENT CORPORATION**
STATE OF HAWAII

**VILLAGES OF LA'I'OPUA
MAUKA-MAKAI ROADWAY IMPROVEMENTS
PHASE-1**

**QUEEN KAAHUMANU HIGHWAY
WATER LINE RELOCATION**

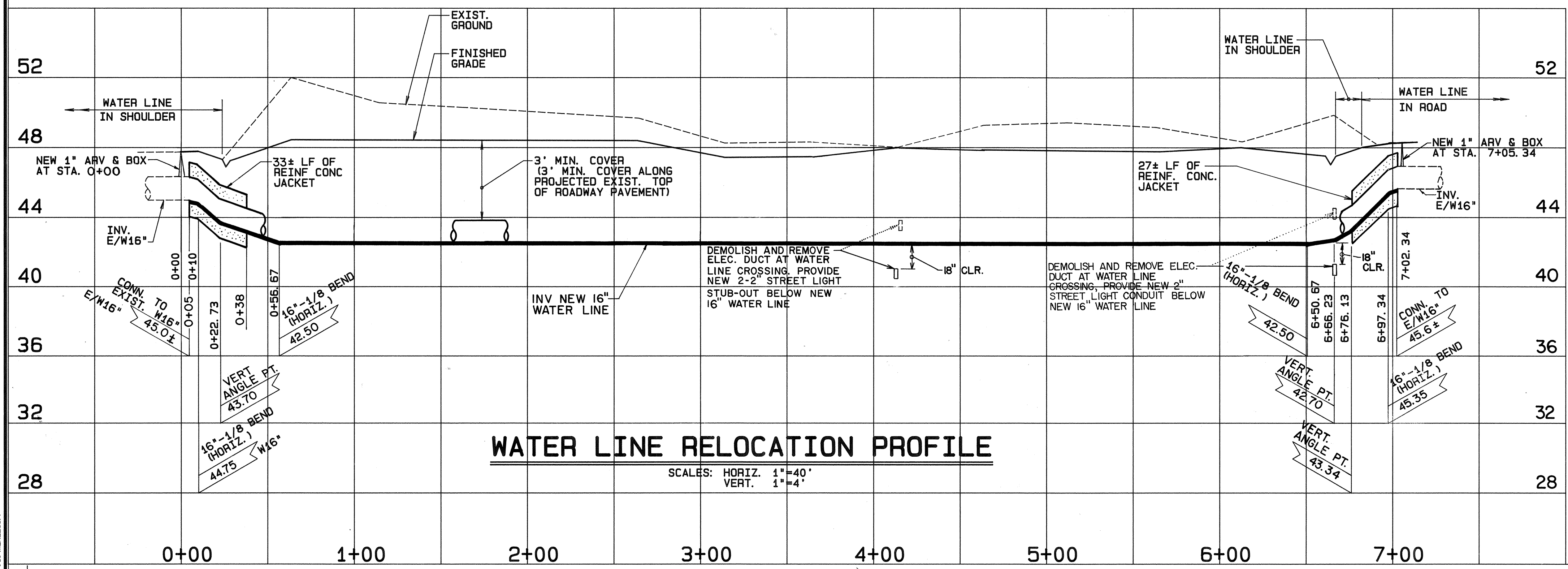
Designed by: **AK** Date: **JUNE, 1993**
Drawn by: **CR** Proj. no.: **(BCA) 841.0104B**

Approved:

DATE: _____ DATE: _____
COUNTY OF HAWAII COUNTY OF HAWAII

Rev	Date	Description	Eng	App
1	7/23/93	ADDED SHEET		

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY
OBSERVATION.



WATER LINE RELOCATION PROFILE

SCALES: HORIZ. 1"=40'
VERT. 1"=4'