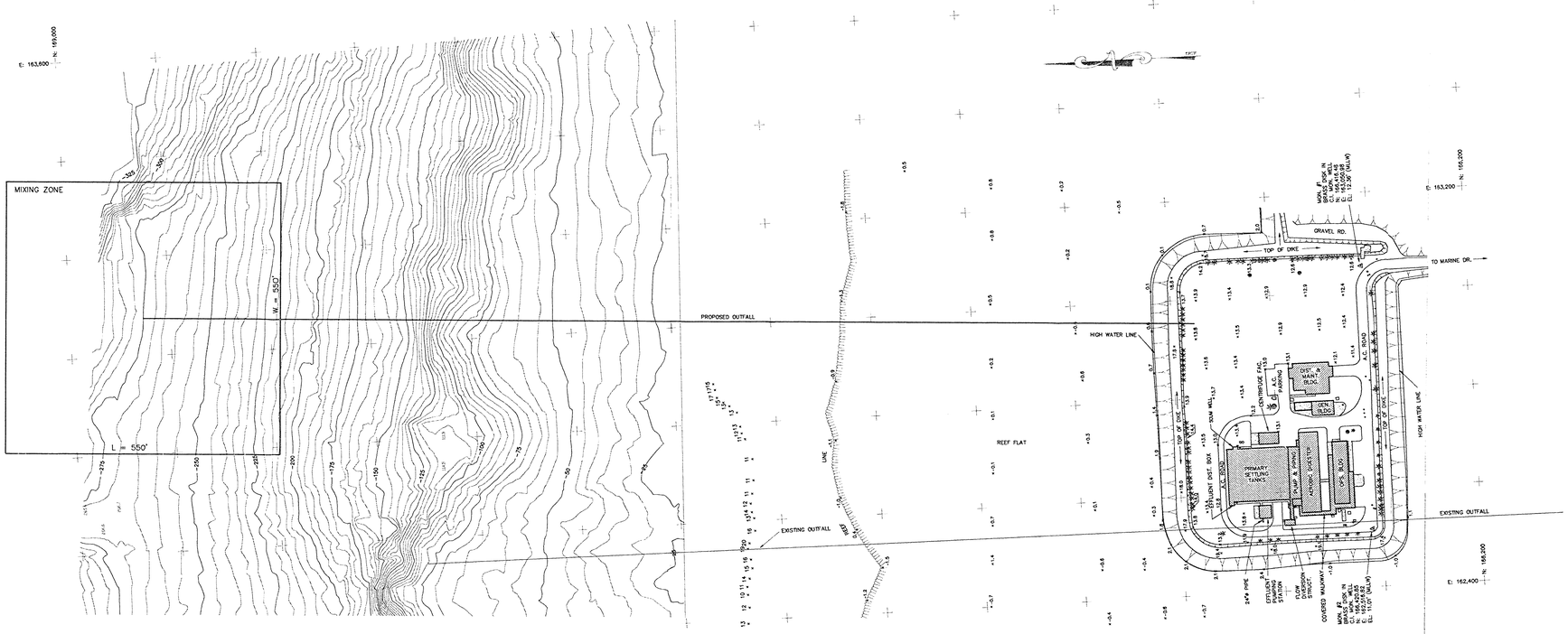
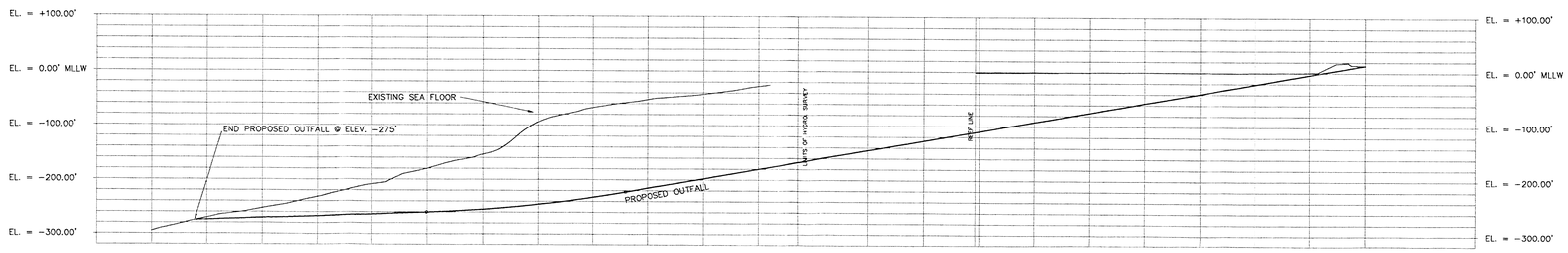



## HDD OUTFALL PLAN

HOR. 1" = 100'

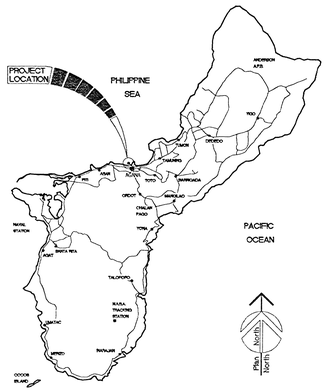



## HDD OUTFALL PROFILE

HOR. 1" = 100'
VER. 1" = 100'

## LOCATION MAP

NTS




GUAM-USA

### SURVEYOR'S NOTES

1. SURVEY WAS BASED ON THE FOLLOWING GGN-93 POINTS CONVERTED TO GGTN-63 VALUES:
   GGN 1460 N 165,329.53 E 161,853.06
   GGN 1464 N 165,570.73 N 164,188.55
   GGN 1466 N 166,386.91 E 164,634.56
   MON. #2 ELEV. 11.01 (MLLW)
2. CONTOURS ARE BASED ON MEAN LOWER LOW WATER (MLLW)
3. CONTOUR INTERVAL IS 1' INSIDE REEF LINE AND 5' OUTWARDS
4. SURVEY DATA RECORDED IN FIELDBOOK G99-01

### BATHYMETRY NOTES

1. DEPTHS ARE PROVIDED IN FEET - DATUM IS MEAN LOWER LOW WATER (MLLW)
2. HORIZONTAL DATA ARE PROVIDED IN PLANE COORDINATES USING THE FOLLOWING GEODETIC PARAMETERS:
   SPHEROID : CLARK 1866
   DATUM : GUAM 1963
   PROJECTION : AZIMUTHAL EQUIDISTANT
3. BATHYMETRY DATA OBTAINED ON NOVEMBER 11, 1998 USING A KNUDSEN 320B/P ECHOSOUNDER WITH 200 kHz TRANSDUCER
4. SURFACE POSITIONING OBTAINED USING ASHTECH DNS-12 DGPS

I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature Date

| REVISION | DATE | BY | DESCRIPTION | APPROVED |
|---|---|---|---|---|

PROJECT No.

GUAM WATERWORKS AUTHORITY
GOVERNMENT OF GUAM

CONTRACT No.

DESIGNED BY:

DRAWN BY :

CHECKED BY :

SUPV. BY :

TUMON INFRASTRUCTURE AND BEAUTIFICATION
AGANA STP OUTFALL EXTENSION
HORIZONTAL DIRECTIONAL DRILLING
PLAN AND PROFILE

RECOMMENDED BY:

PROJECT ENGINEER

CHIEF OF ENGINEERING

DATE

SECTION MANAGER

SCALE: AS NOTED

ASSOCIATES, INC.
ENGINEERS/ARCHITECTS
GTPO BLDG., RUTTER ROAD
PUGA, MOTTO, MAGAPIE DR.
TAMUNING, GUAM 96911
TEL: 647-4481 FAX: 647-1411

EDWARD K. NODA & ASSOCIATES, INC.
815 Pikui Street #300
Honolulu, Hawaii 96814

DRAWER NO.

DRAWING NUMBER

SHEET OF