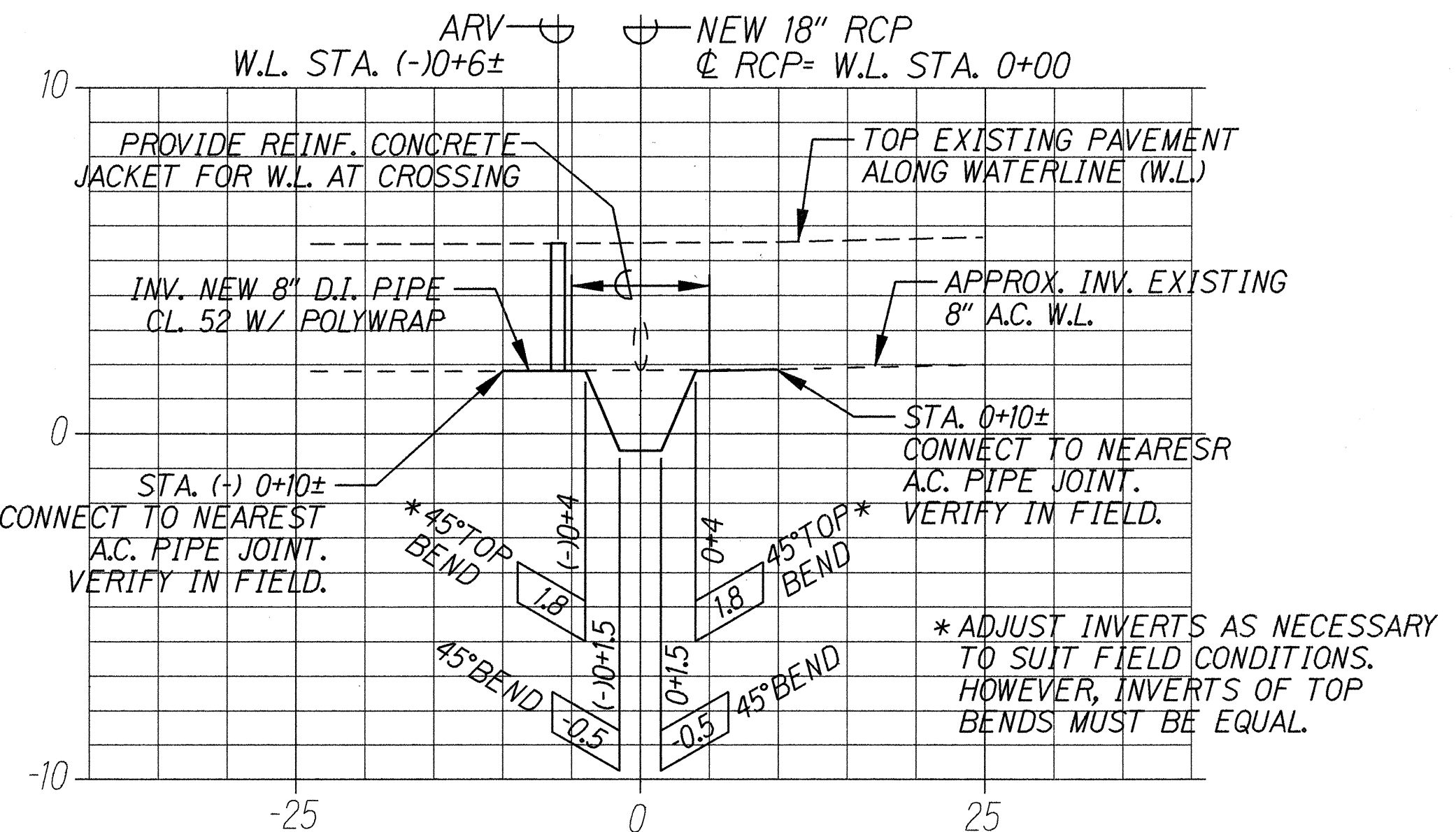


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-0900(54)	2000	9	15

CONSTRUCTION ANNOTATIONS

- REPLACE REQUIRED SECTION(S) OF EXISTING 8" A.C. PIPE W/ 8" D.I. PIPE, CL. 52. AND LOWER PORTION OF WATERLINE AT DRAIN CROSSING. PROVIDE REINF. CONCRETE JACKET. SEE DETAIL ON SHEET 15.
- CONNECT TO NEAREST A.C. PIPE JOINT. CUTTING OF A.C. PIPE IS NOT ALLOWED.
- INSTALL 3/4" ARV W/ D.W.S. TYPE "F" MANHOLE.
- CUT AND PLUG EXISTING RCBC AT LEAST 5' FROM DMH. REMOVE PORTION OF RCBC BETWEEN PLUG AND DMH AND BACKFILL ACCORDINGLY.

- NOTES:
- CONTRACTOR SHALL RESTORE ANY DAMAGED STRUCTURES, SIGNS, UTILITY LINES, ETC., AS REQUIRED, TO ITS ORIGINAL CONDITION OR BETTER. COST OF RESTORATION INCIDENTAL TO VARIOUS CONTRACT ITEMS UNLESS SPECIFIED IN THE PROPOSALS.
 - EXISTING SURFACE ELEVATIONS, STRIPINGS, ETC. SHOWN AT KAMEHAMEHA AVENUE AND HOBROEN AVENUE INTERSECTIONS WERE TAKEN PRIOR TO CONSTRUCTION OF THE PROPOSED TRAFFIC SIGNAL SYSTEM UNDER "HANA HIGHWAY INTERSECTION IMPROVEMENTS AT HOBROEN AVENUE" FAP No. STP-036-1(12). THE TRAFFIC SIGNAL SYSTEM IS SCHEDULED TO BE INSTALLED BEFORE THIS PROJECT. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD (eg. LOCATION OF TRAFFIC SIGNAL FACILITIES, NEW PAVEMENT, STRIPING, CURB, ETC.) PRIOR TO CONSTRUCTION OF NEW DRAINAGE SYSTEM. ANY ADJUSTMENTS TO THE NEW DRAINAGE SYSTEM SHALL BE APPROVED OR AS DIRECTED BY THE ENGINEER.



PROFILE- W.L./D.L. CROSSING @ GDI C-3
SCALE: HOR.: 1" = 10'
VER.: 1" = 4'



THIS WORK WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

R. T. TANAKA ENGINEERS, INC.

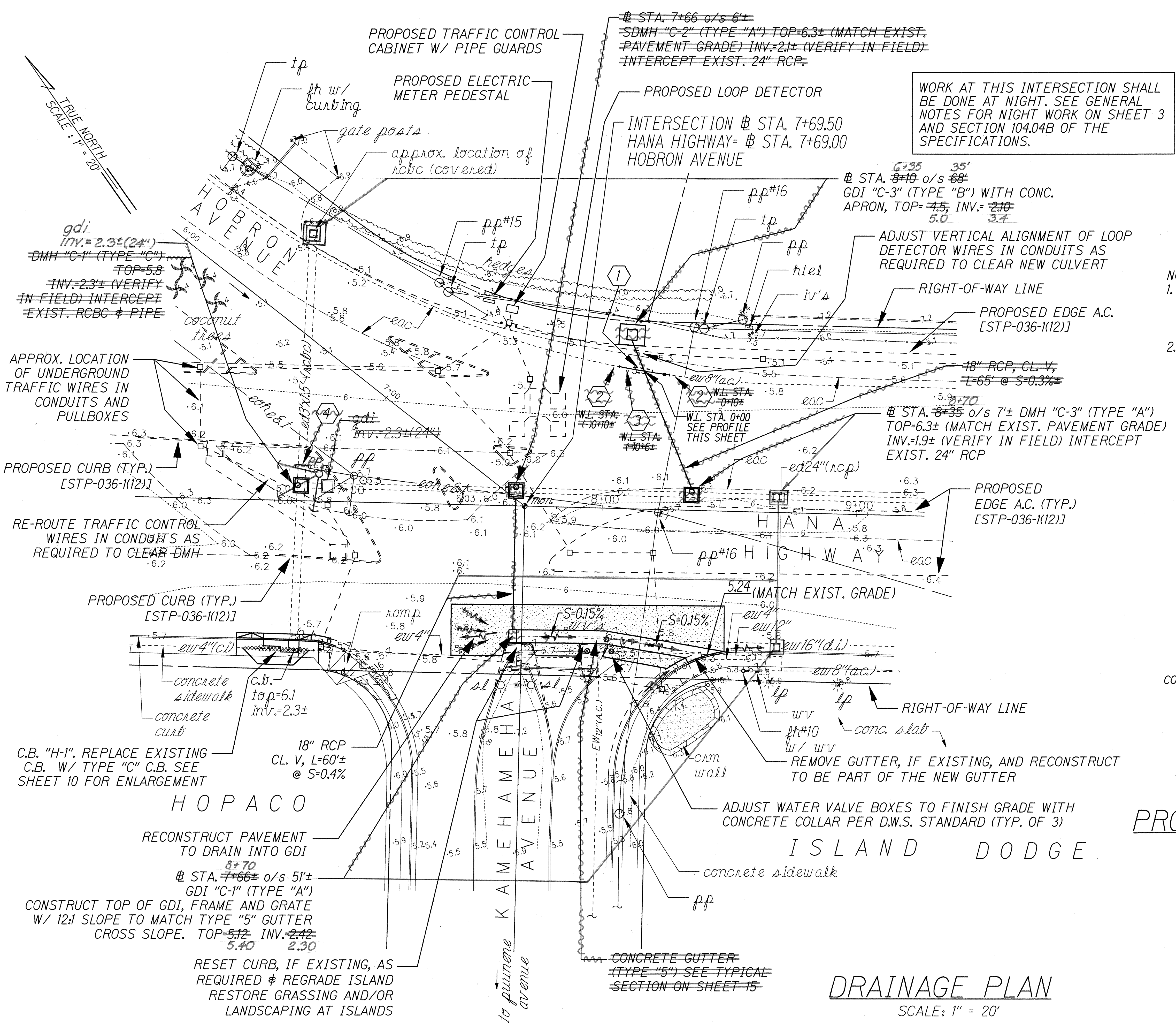
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
HANA HIGHWAY

KAHUMANU AVENUE DRAINAGE IMPROVEMENTS
S. WAKEA AVENUE TO KAHULUI BEACH ROAD
AND
HANA HIGHWAY DRAINAGE IMPROVEMENTS
HOBROEN AVENUE TO DAIRY ROAD
FED. AID PROJ. NO. NH-STP-0900(54)

SCALE: AS NOTED DATE: MARCH 2000

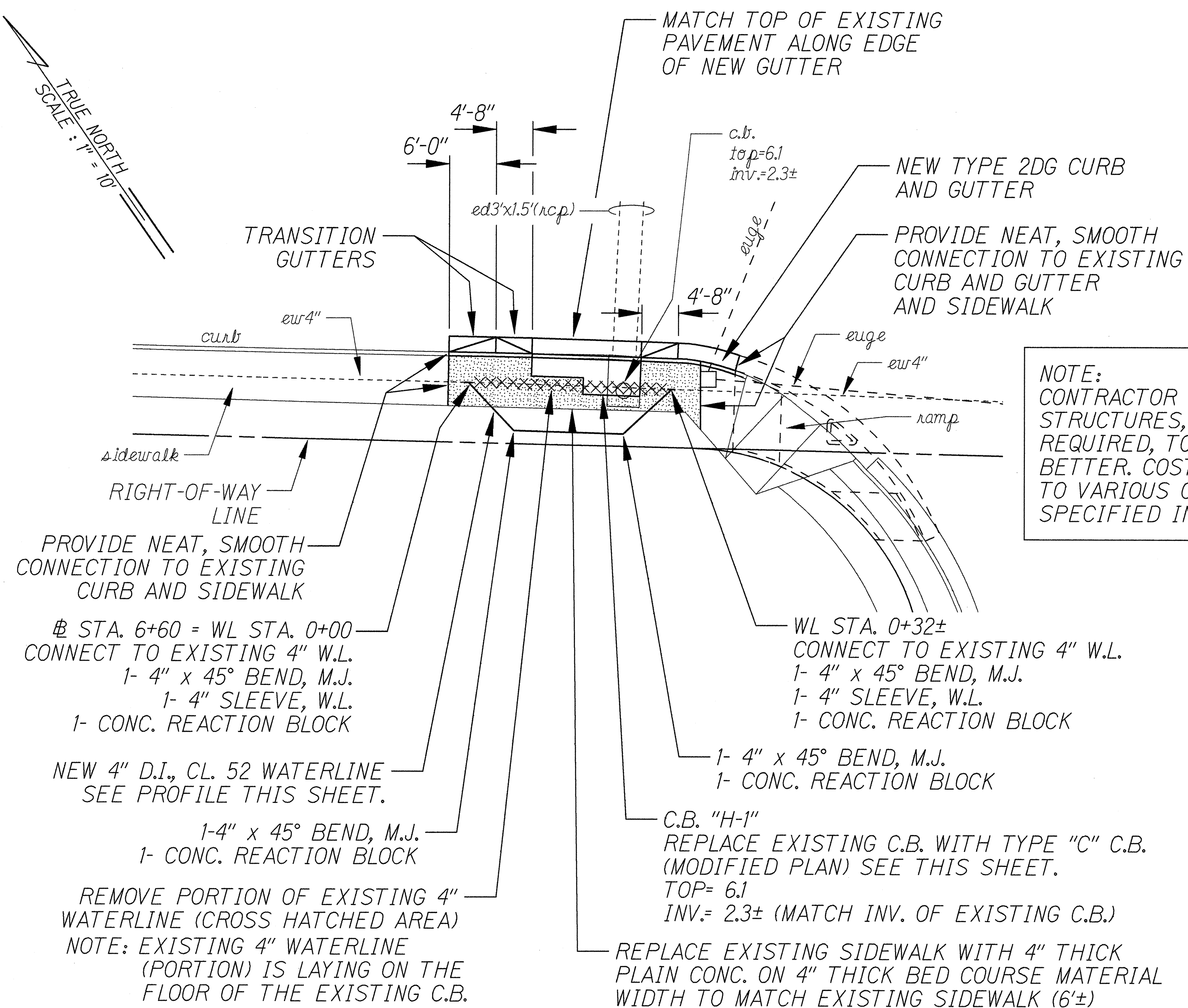
SHEET No. 1 OF 4 SHEETS



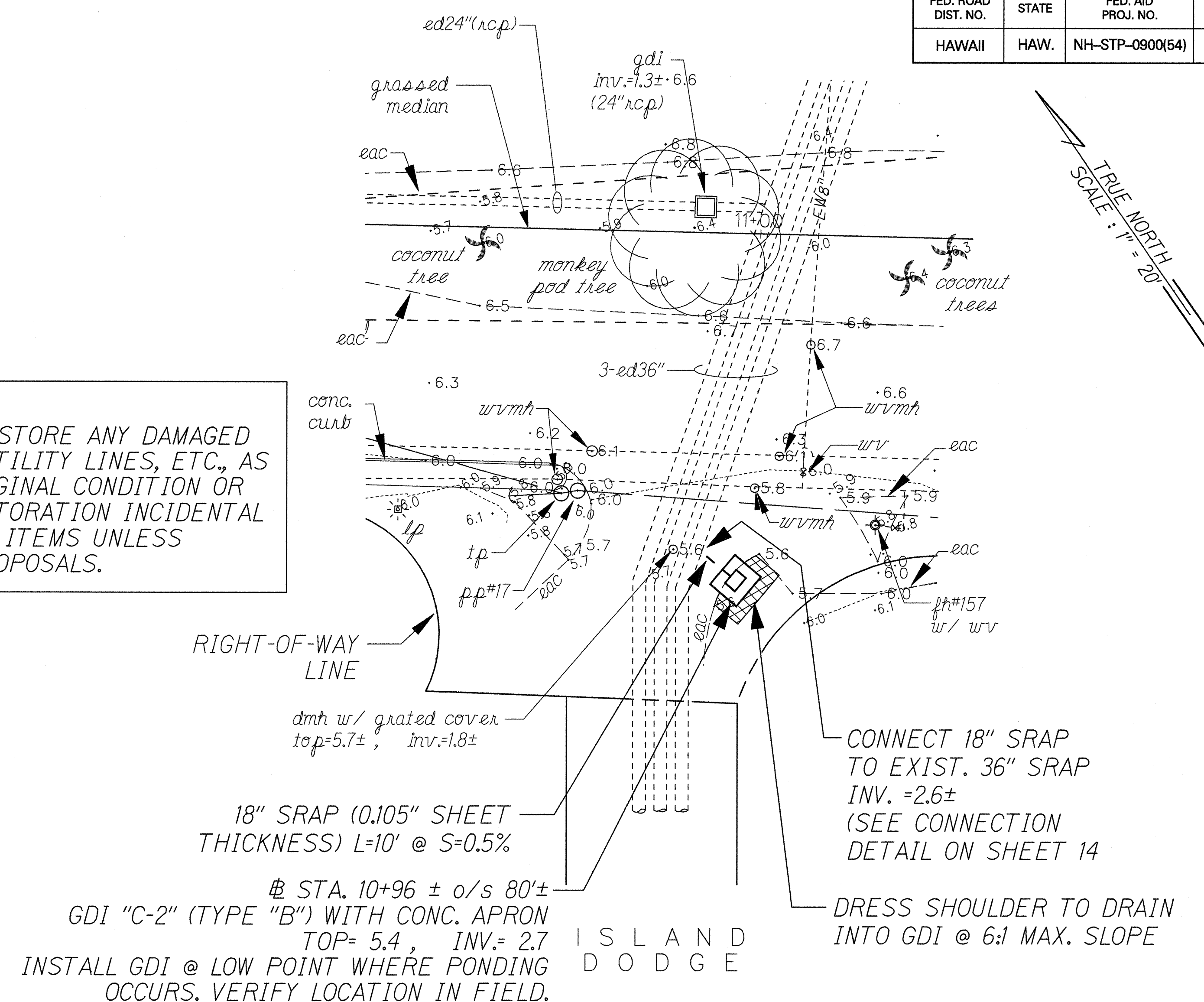
DRAINAGE PLAN
SCALE: 1" = 20'

1998/08-38/HHD1-02.dwg "XREF: HHD1.dwg"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-0900(54)	2000	10	15

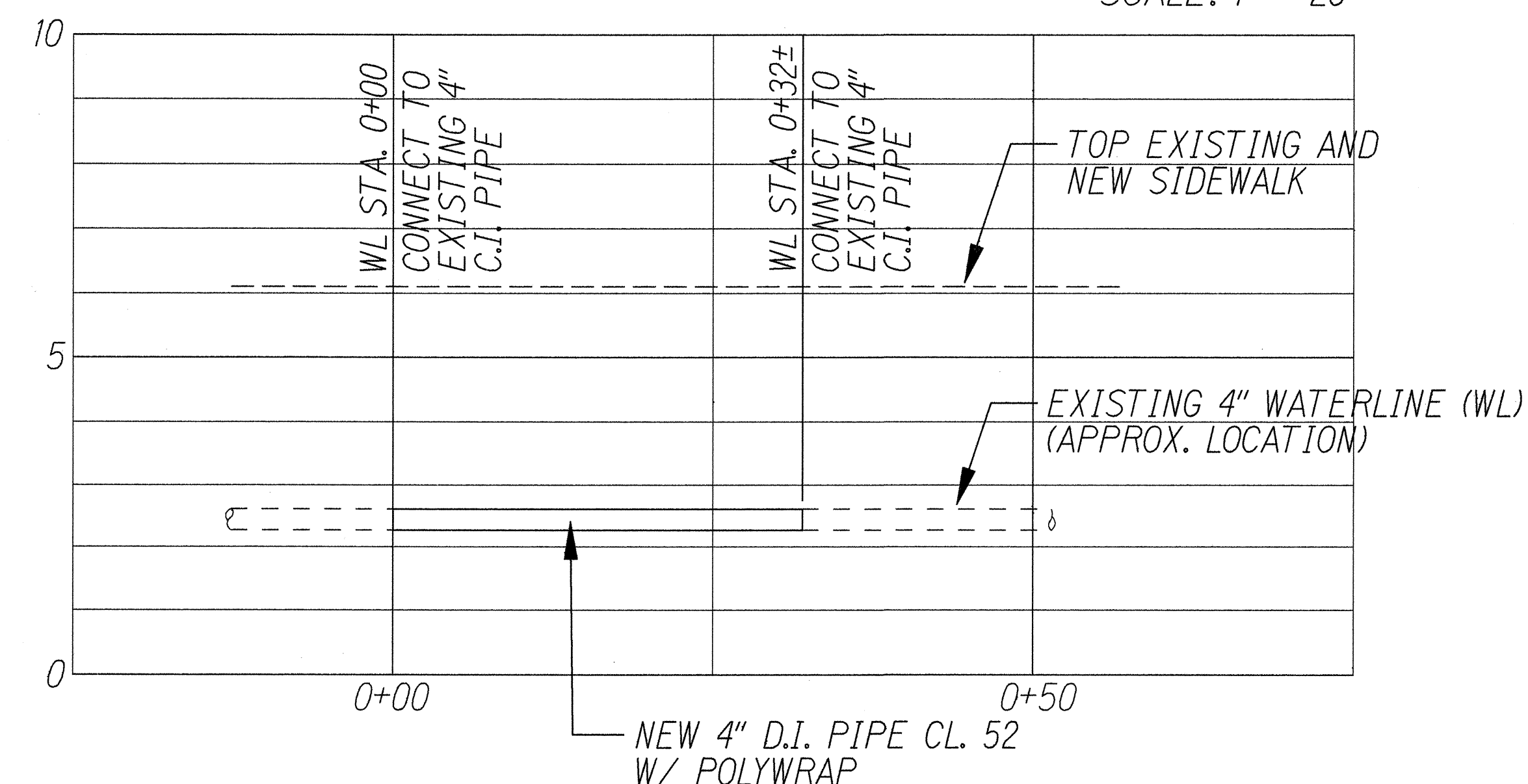


NOTE:
CONTRACTOR SHALL RESTORE ANY DAMAGED
STRUCTURES, SIGNS, UTILITY LINES, ETC., AS
REQUIRED, TO ITS ORIGINAL CONDITION OR
BETTER. COST OF RESTORATION INCIDENTAL
TO VARIOUS CONTRACT ITEMS UNLESS
SPECIFIED IN THE PROPOSALS.



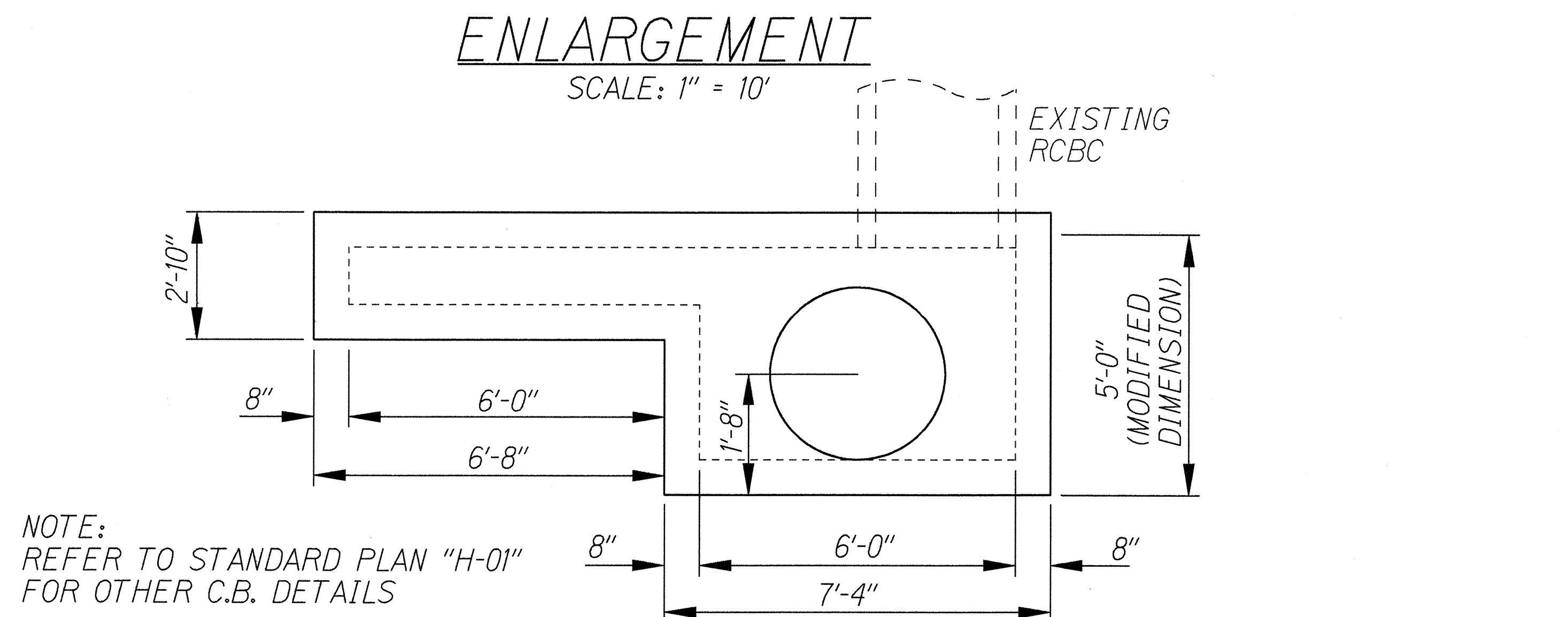
DRAINAGE PLAN

SCALE: 1" = 20'



PROFILE - NEW 4" WATERLINE @ C.B. "H-1"

SCALE: HOR.: 1" = 10'
VER.: 1" = 4'



C.B. "H-1" PLAN (TYPE "C" MODIFIED)

SCALE: 1" = 2'

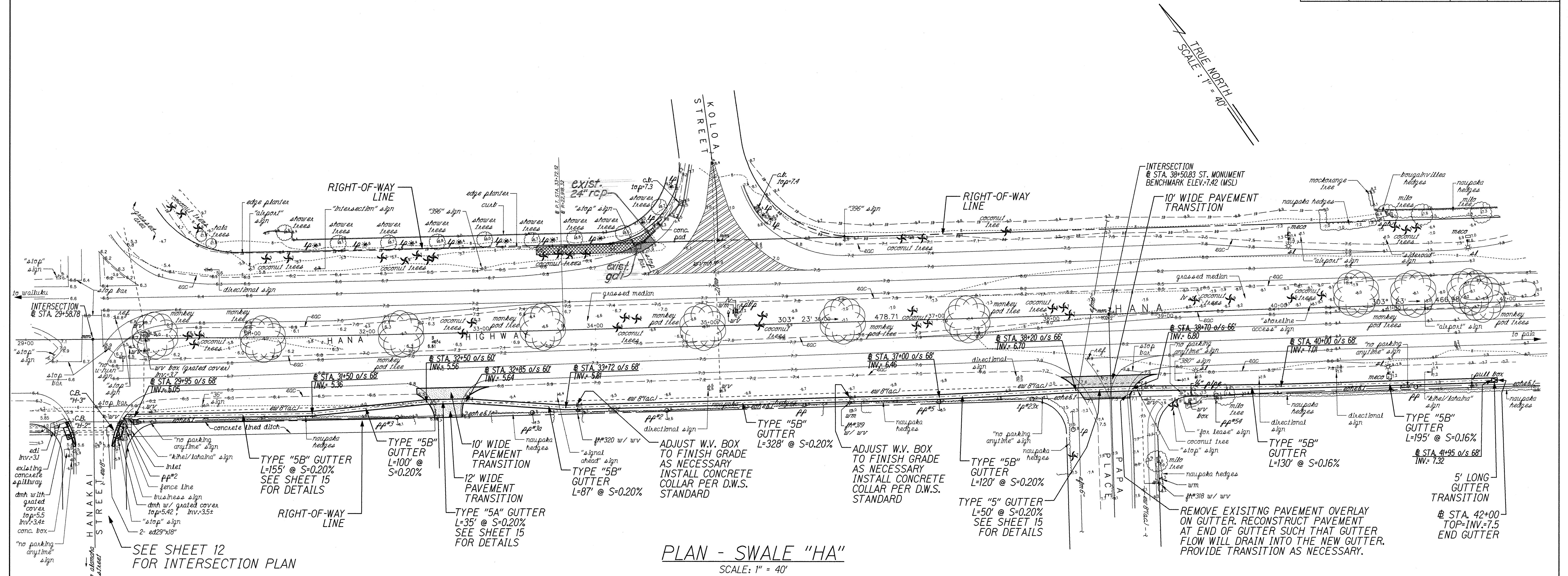
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
HANA HIGHWAY

KAAHUMANU AVENUE DRAINAGE IMPROVEMENTS
S. WAKEA AVENUE TO KAHULUI BEACH ROAD
AND
HANA HIGHWAY DRAINAGE IMPROVEMENTS
HOBORN AVENUE TO DAIRY ROAD
FED. AID PROJ. NO. NH-STP-0900(54)

SCALE: AS NOTED DATE: MARCH 2000

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-0900(54)	2000	11	15



PLAN - SWALE "HA"
SCALE: 1" = 40'

NOTE:
CONTRACTOR SHALL RESTORE ANY DAMAGED STRUCTURES, SIGNS, UTILITY LINES, ETC., AS REQUIRED, TO ITS ORIGINAL CONDITION OR BETTER. COST OF RESTORATION INCIDENTAL TO VARIOUS CONTRACT ITEMS UNLESS OTHERWISE SPECIFIED IN THE PROPOSALS.

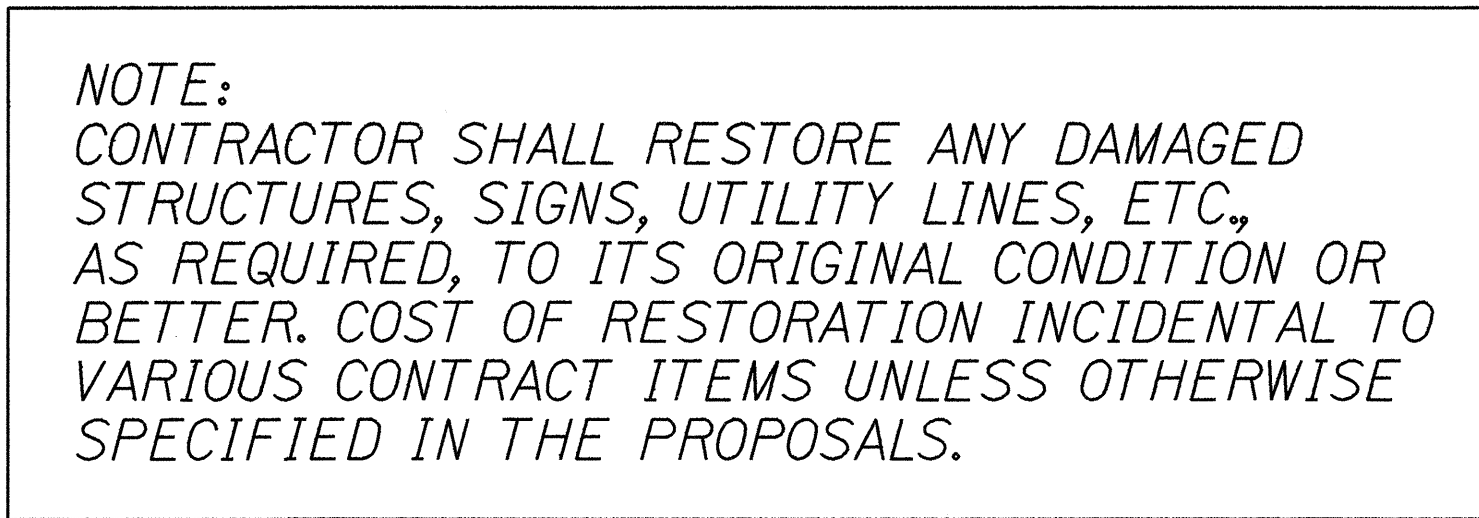
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
HANA HIGHWAY

KAAHUMANU AVENUE DRAINAGE IMPROVEMENTS
S. WAKEA AVENUE TO KAHULUI BEACH ROAD
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HANA HIGHWAY DRAINAGE IMPROVEMENTS
HOBORN AVENUE TO DAIRY ROAD
FED. AID PROJ. NO. NH-STP-0900(54)

SCALE: AS NOTED DATE: MARCH 2000

3:/1998/98-38/HHDT-D5.dan
"XREF:HHDT.dwg"

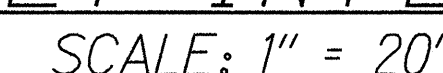


SCALE: 1" = 20'

1 EXISTING D.M.H. AND GRATE INLET TO REMAIN.
NEW GUTTER TO MATCH TOP OF MANHOLE.

2 C.B. "H-2" AND "H-3" ARE COUNTY OF MAUI,
DEPT. OF PUBLIC WORKS STANDARD TYPE "C"
CATCH BASIN. CONTRACTOR TO LAYOUT C.B.
TO SUIT FIELD CONDITIONS AND APPROVED BY
THE ENGINEER PRIOR TO CONSTRUCTION OF C.B.
SEE TYPICAL CATCH BASIN INSTALLATION DETAIL
ON SHEET 14.

3 CLEAN EXISTING INLET AND CULVERTS. COST OF
REMOVING EXISTING SEDIMENT DEPOSITS, ETC.
INCIDENTAL TO VARIOUS CONTRACT ITEMS.



SHEET No. 4 OF 4 SHEETS