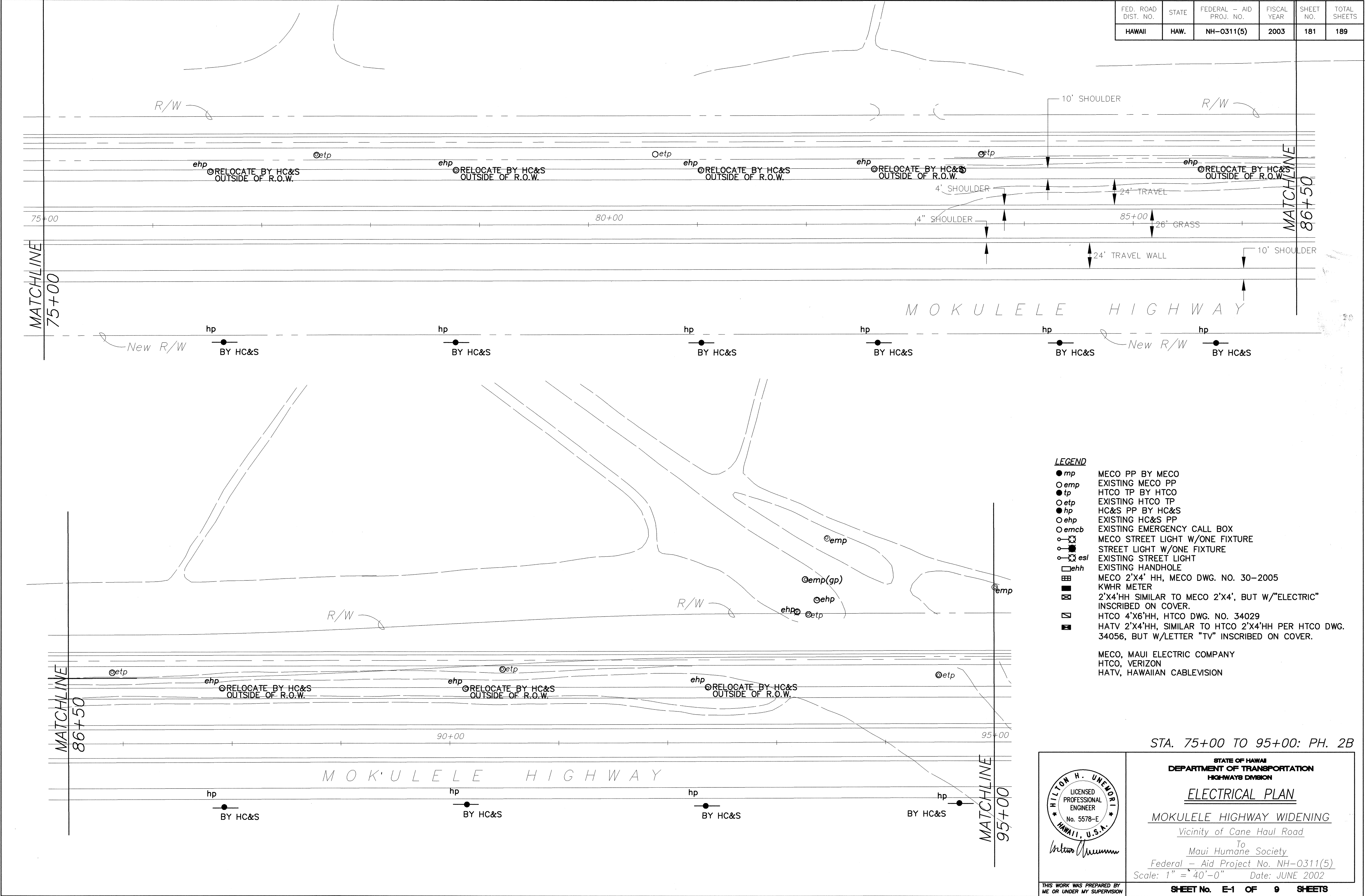


FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	181	189



- LEGEND**
- mp MECO PP BY MECO
 - emp EXISTING MECO PP
 - tp HTCO TP BY HTCO
 - etp EXISTING HTCO TP
 - hp HC&S PP BY HC&S
 - ehpp EXISTING HC&S PP
 - emcb EXISTING EMERGENCY CALL BOX
 - MECO STREET LIGHT W/ONE FIXTURE
 - HTCO STREET LIGHT W/ONE FIXTURE
 - esl EXISTING STREET LIGHT
 - ehh EXISTING HANDHOLE
 - MECO 2'X4' HH, MECO DWG. NO. 30-2005
 - KWHR METER
 - 2'X4'HH SIMILAR TO MECO 2'X4', BUT W/"ELECTRIC" INSCRIBED ON COVER.
 - HTCO 4'X6'HH, HTCO DWG. NO. 34029
 - HATV 2'X4'HH, SIMILAR TO HTCO 2'X4'HH PER HTCO DWG. 34056, BUT W/LETTER "TV" INSCRIBED ON COVER.
- MECO, MAUI ELECTRIC COMPANY
HTCO, VERIZON
HATV, HAWAIIAN CABLEVISION

STA. 75+00 TO 95+00: PH. 2B

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

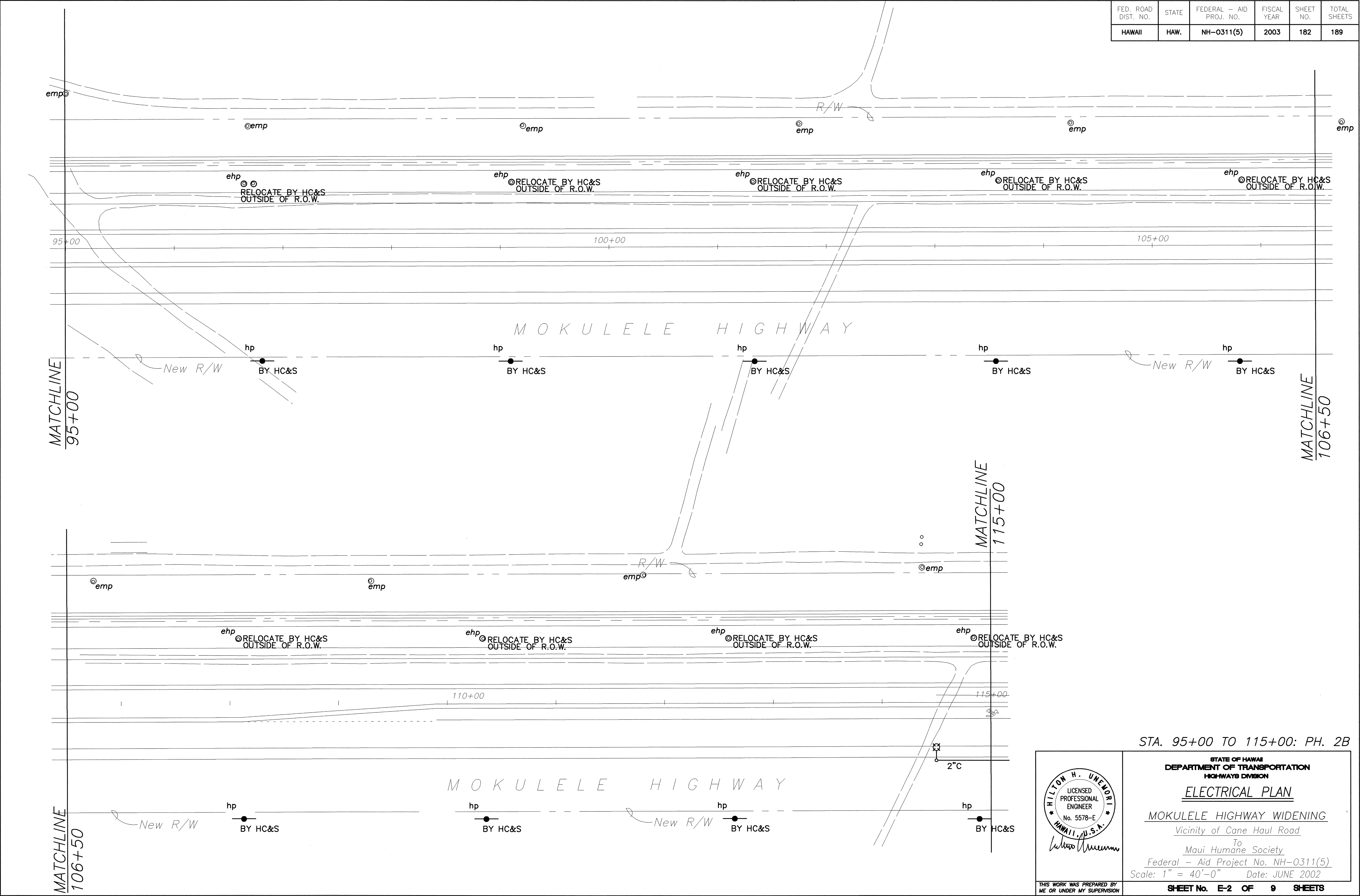
Vicinity of Cane Haul Road

To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)
Scale: 1" = 40'-0" Date: JUNE 2002

SHEET No. E-1 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	182	189



STA. 95+00 TO 115+00: PH. 2B



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

To
Maui Humane Society

Federal - Aid Project No. NH-0311(5)

Scale: 1" = 40'-0" Date: JUNE 2002

SHEET No. E-2 OF 9 SHEETS

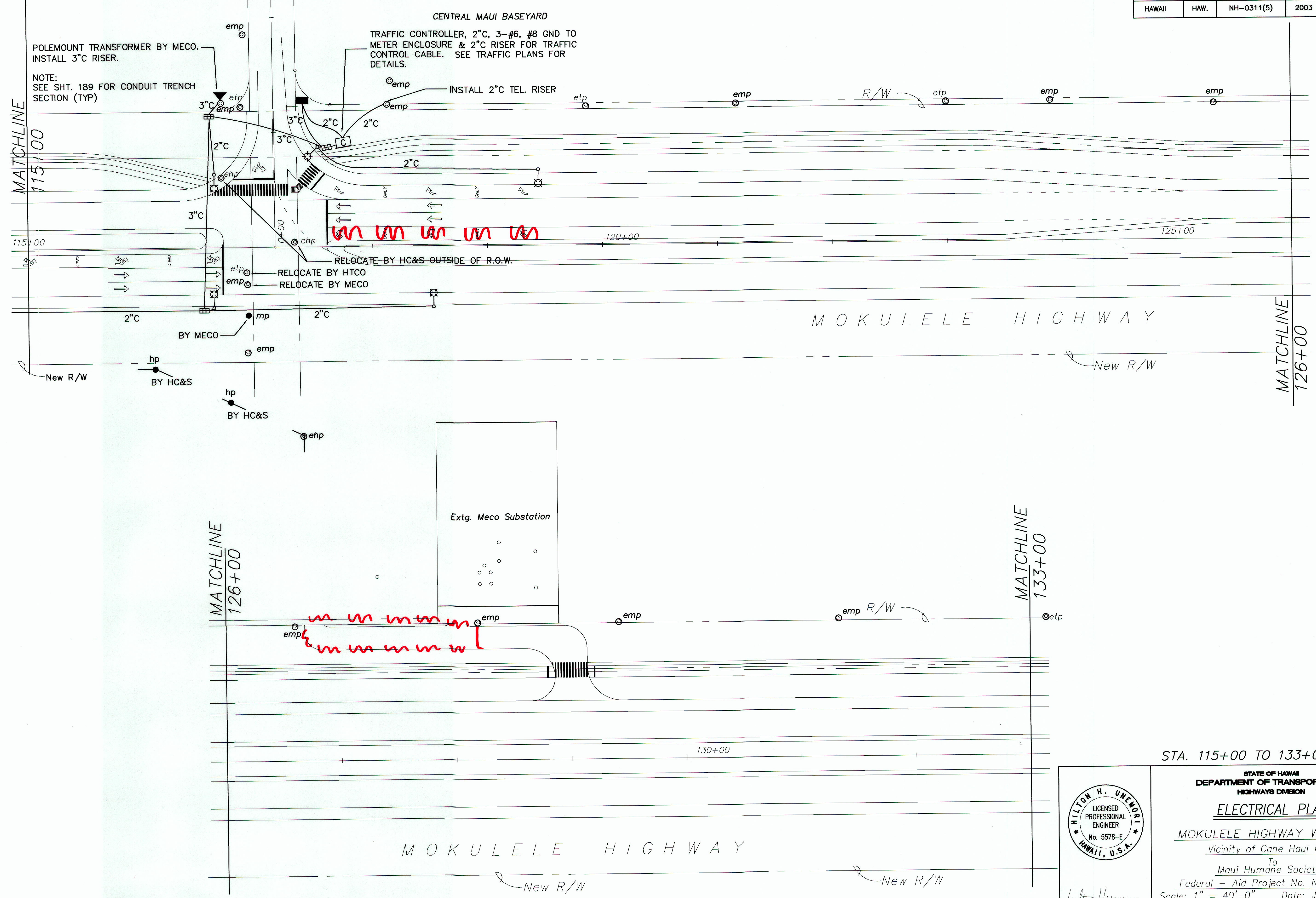
ORIGINAL PLAN	DATE
NO.	

3/5/02

PROJ. NO.: M9901.00

R:\moku_pk25\Shfr.dwg

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	183	189



ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
No.	

HILTON H. UENOSHI

LICENSED PROFESSIONAL ENGINEER

No. 5578-E

HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

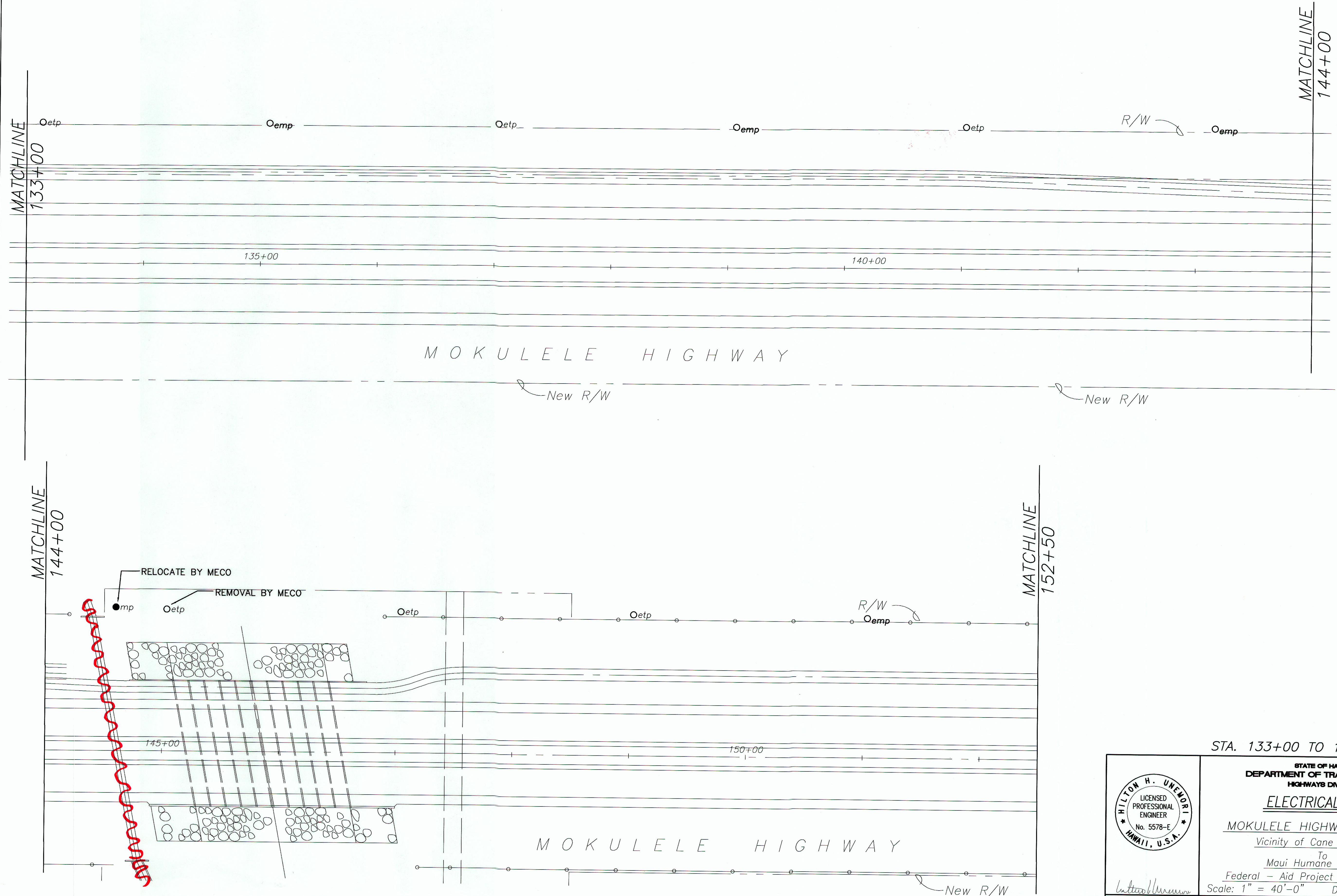
ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Cane Haul Road
To
Maui Humane Society
Federal - Aid Project No. NH-0311(5)
Scale: 1" = 40'-0" Date: JUNE 2002

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

'AS-BUILT'

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	184	189



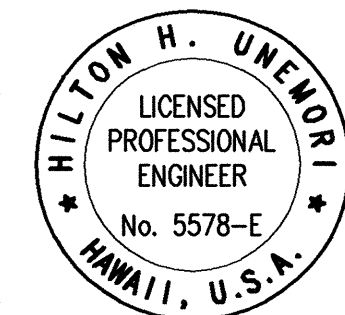
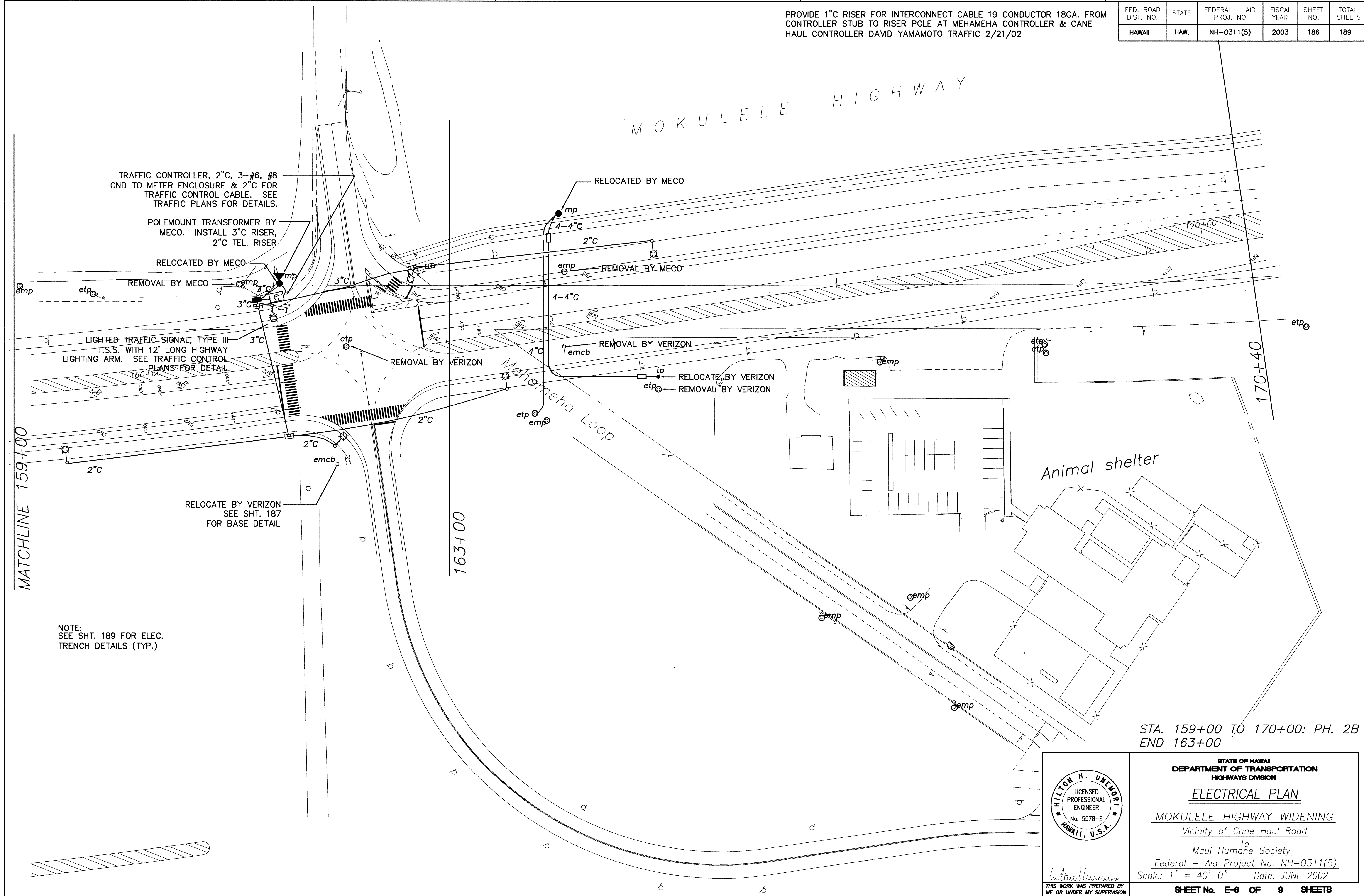
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ELECTRICAL PLAN
 MOKULELE HIGHWAY WIDENING
 Vicinity of Cane Haul Road
 To
 Maui Humane Society
 Federal - Aid Project No. NH-0311(5)
 Scale: 1" = 40'-0" Date: JUNE 2002
 SHEET No. E-4 OF 9 SHEETS

"AS-BUILT"

PROVIDE 1" C RISER FOR INTERCONNECT CABLE 19 CONDUCTOR 18GA. FROM
CONTROLLER STUB TO RISER POLE AT MEHAMEHA CONTROLLER & CANE
HAUL CONTROLLER DAVID YAMAMOTO TRAFFIC 2/21/02

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	186	189



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

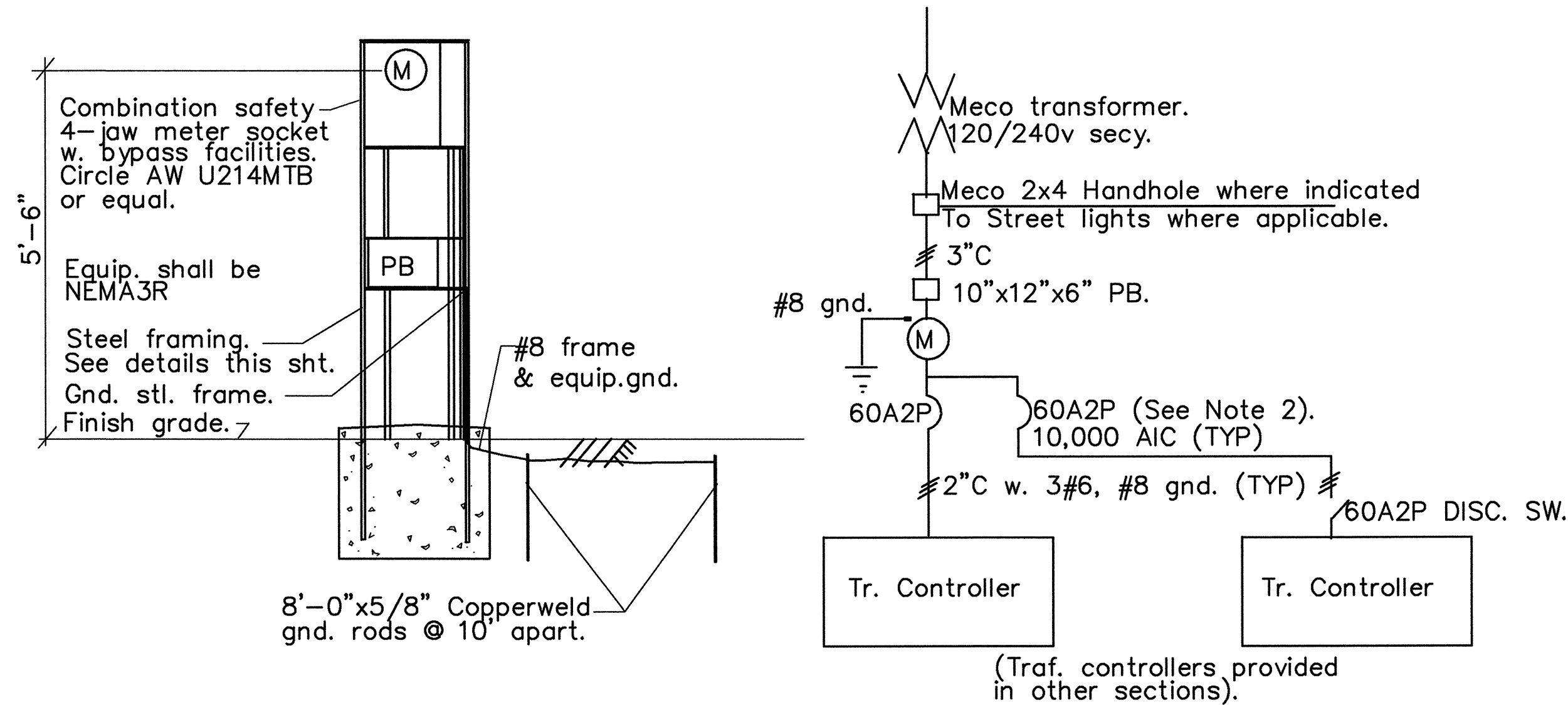
ELECTRICAL PLAN
MOKULELE HIGHWAY WIDENING
Vicinity of Cane Haul Road

To
Maui Humane Society
Federal - Aid Project No. NH-0311(5)
Scale: 1" = 40'-0" Date: JUNE 2002

SHEET No. E-6 OF 9 SHEETS

DESIGNED BY	DATE
NOTED BY	
CHECKED BY	
APPROVED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	187	189



SERVICE EQUIPMENT ELEVATION

NTS

SINGLE LINE DIAGRAM

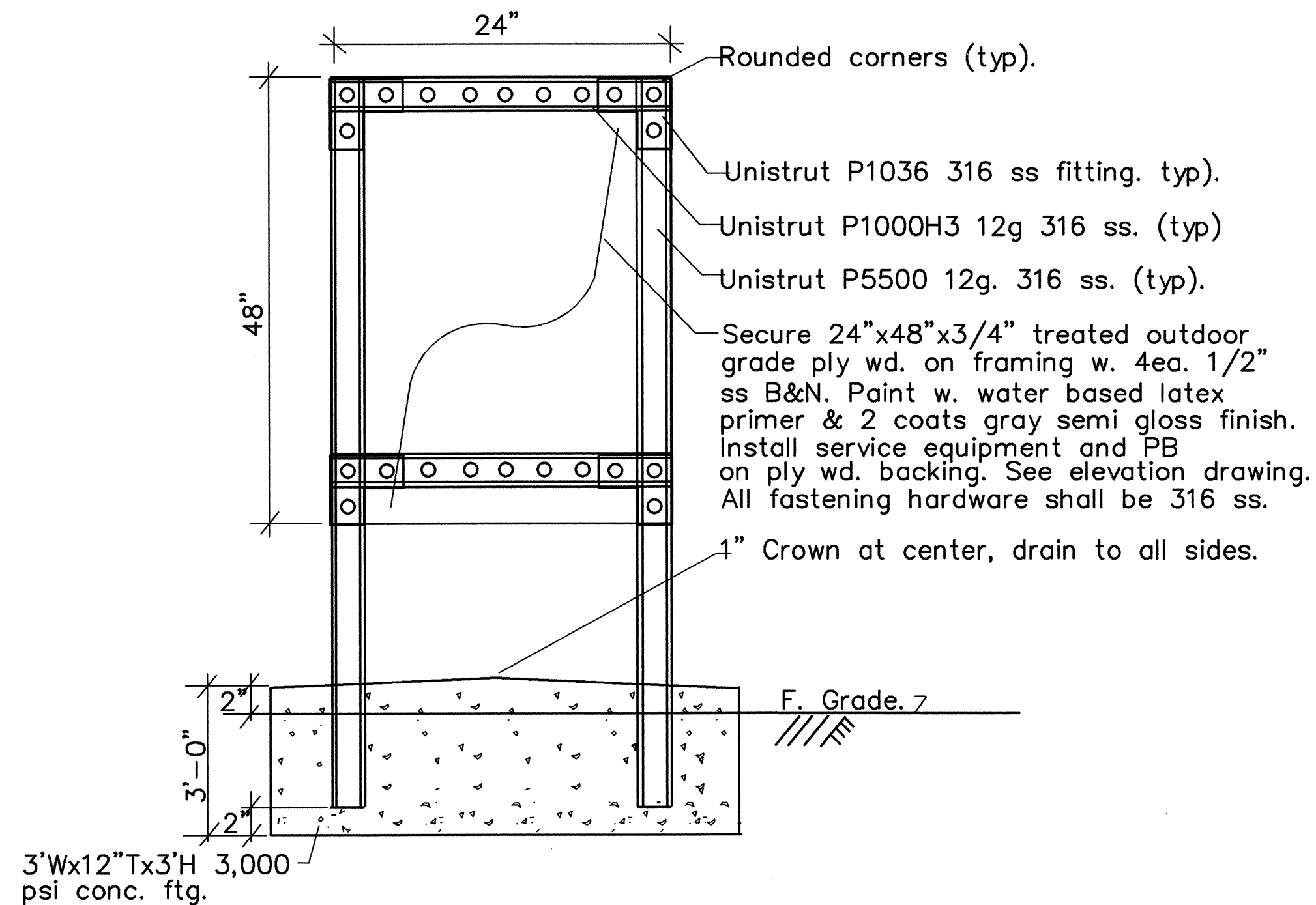
NTS

TYPICAL TRAFFIC CONTROL SERVICE EQUIPMENT DETAIL

NTS

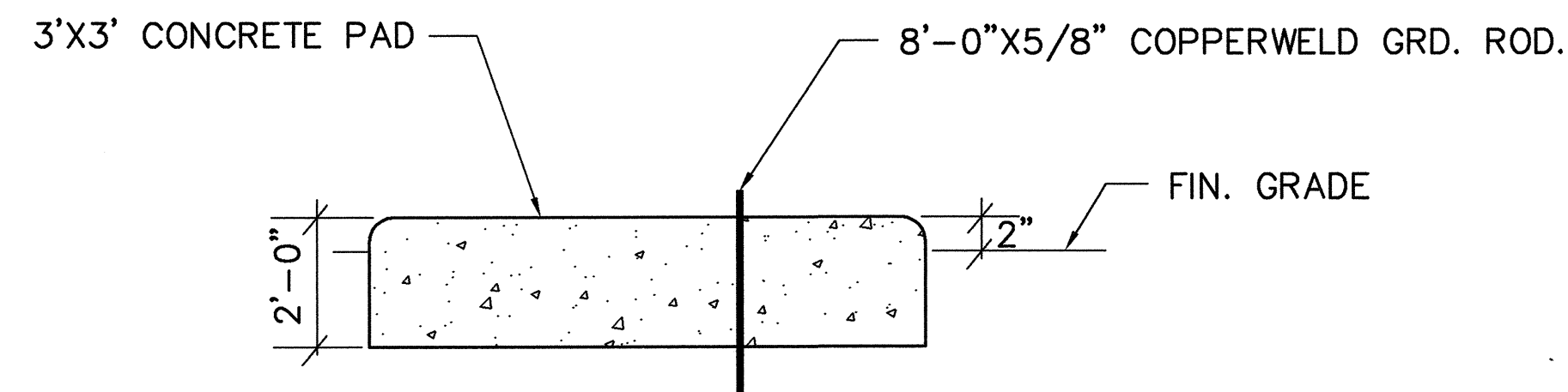
NOTE 1
Meter socket shall be rated at 100 amps.
Service disconnect shall be 60A2P CBs

NOTE 2
Provide lock and keys for all enclosures.



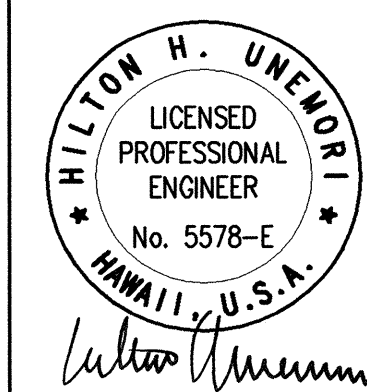
STEEL FRAMING DETAILS

NTS



EMERGENCY CALL BOX CONCRETE PAD DETAIL

NTS



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Cane Haul Road

To
Maui Humane Society

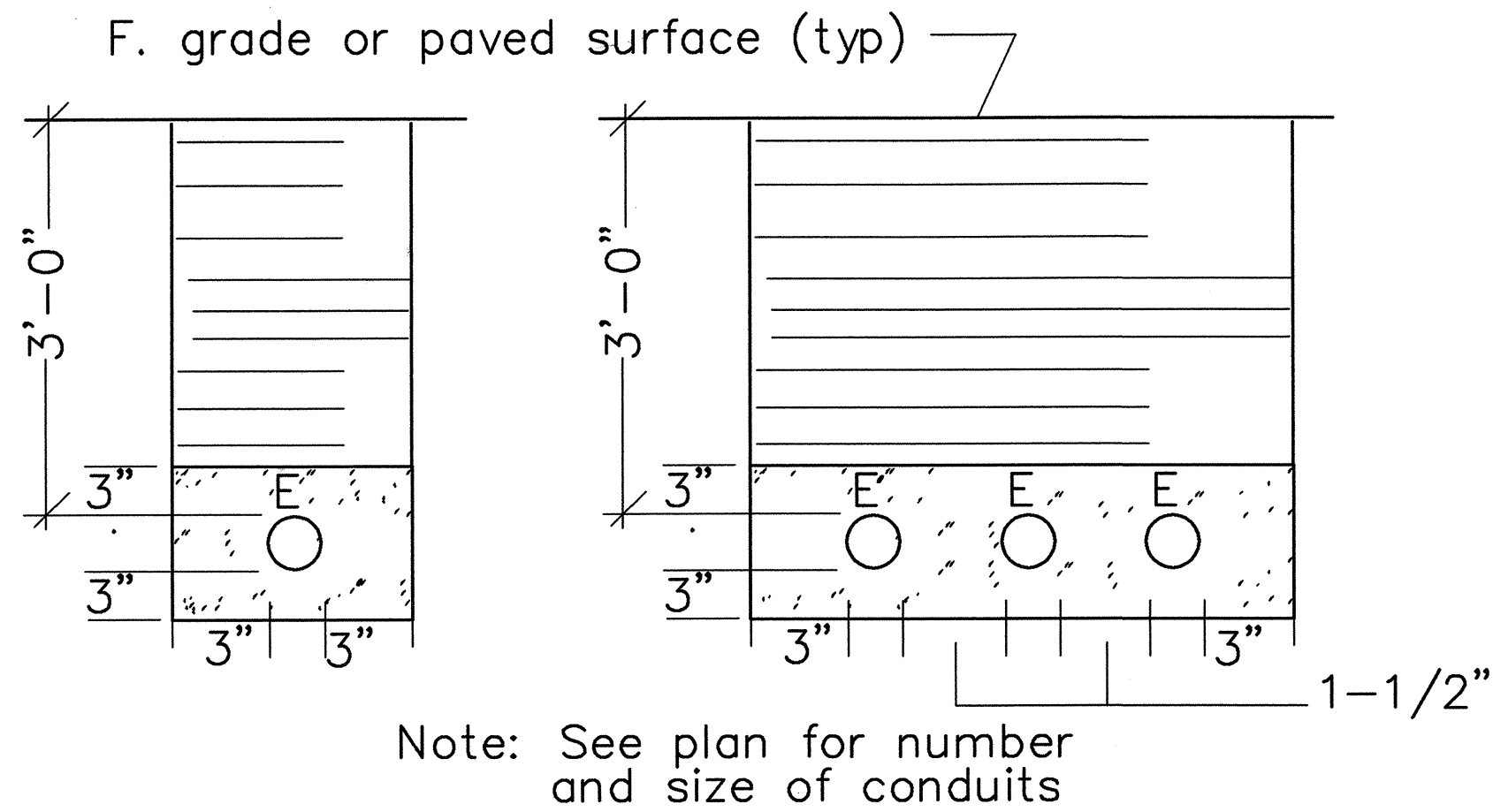
Federal - Aid Project No. NH-0311(5)

Scale: 1" = 40'-0" Date: JUNE 2002

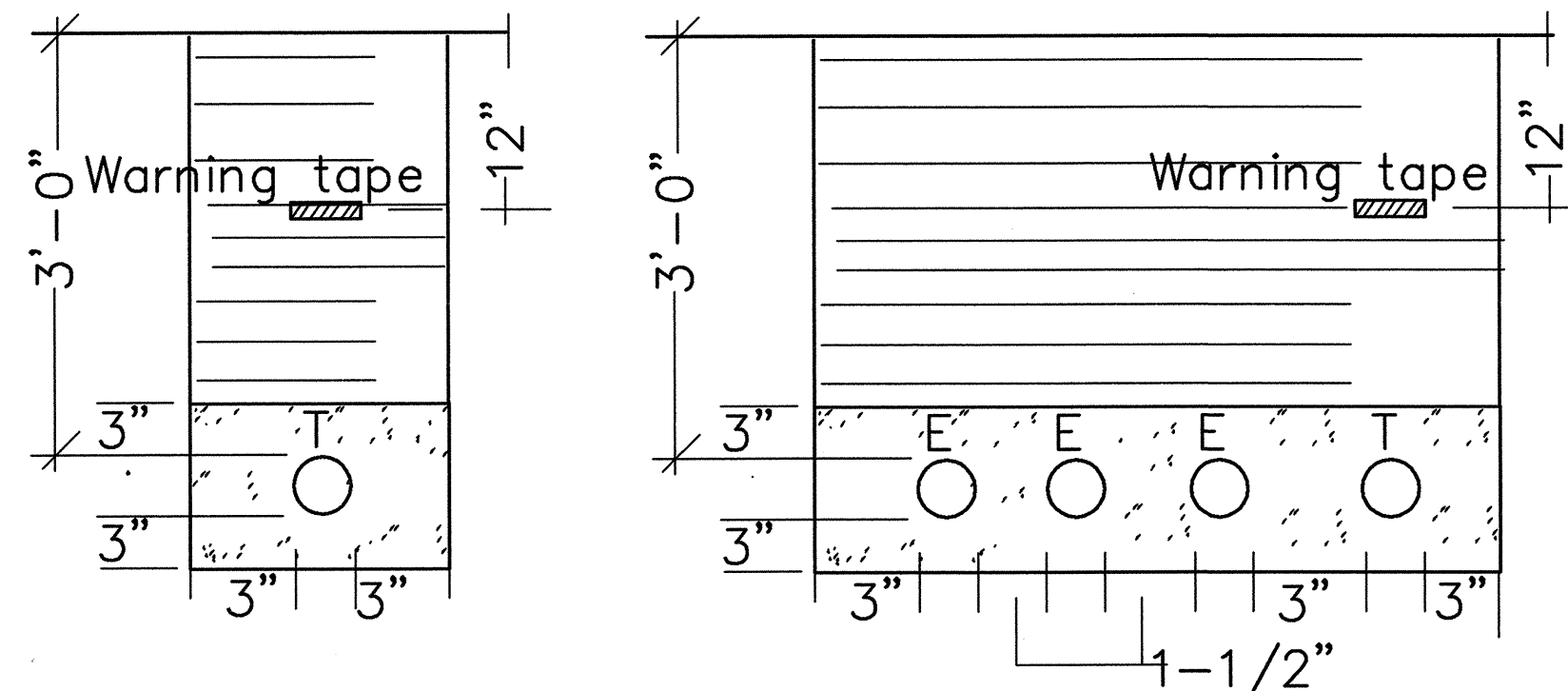
SHEET No. E-7 OF 9 SHEETS

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FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-0311(5)	2003	189	189



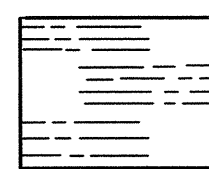
TYPICAL ELECTRICAL CONDUIT TRENCHES
NTS



TYPICAL ELECTRICAL AND TELEPHONE CONDUIT TRENCH
NTS

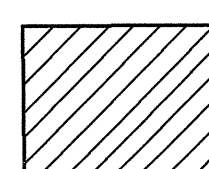
Duct Notes:

- All conduits shall be PVC Schedule 40.
- All conduits to contain a mule tape line Wesco Cat. #0725-9200 or equal.
- After conduit is installed, the contractor shall pass a smooth bullet shaped wooden test mandrel through to test for freedom from burrs and obstructions the entire length of the conduits.
- Backfill legend:



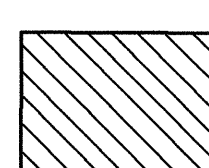
Type "A" backfill

Beach sand, earth or earth and gravel. If earth and gravel the maximum size shall be 1" and the mixture shall contain no more than 50% by volume of rock particles.



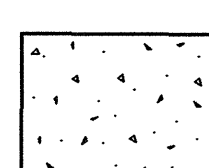
Type "B" backfill

Beach sand, earth or earth and gravel. If earth and gravel the mixture must pass a 1-1/2" mesh screen and contain no more than 20% by volume of rock particles.

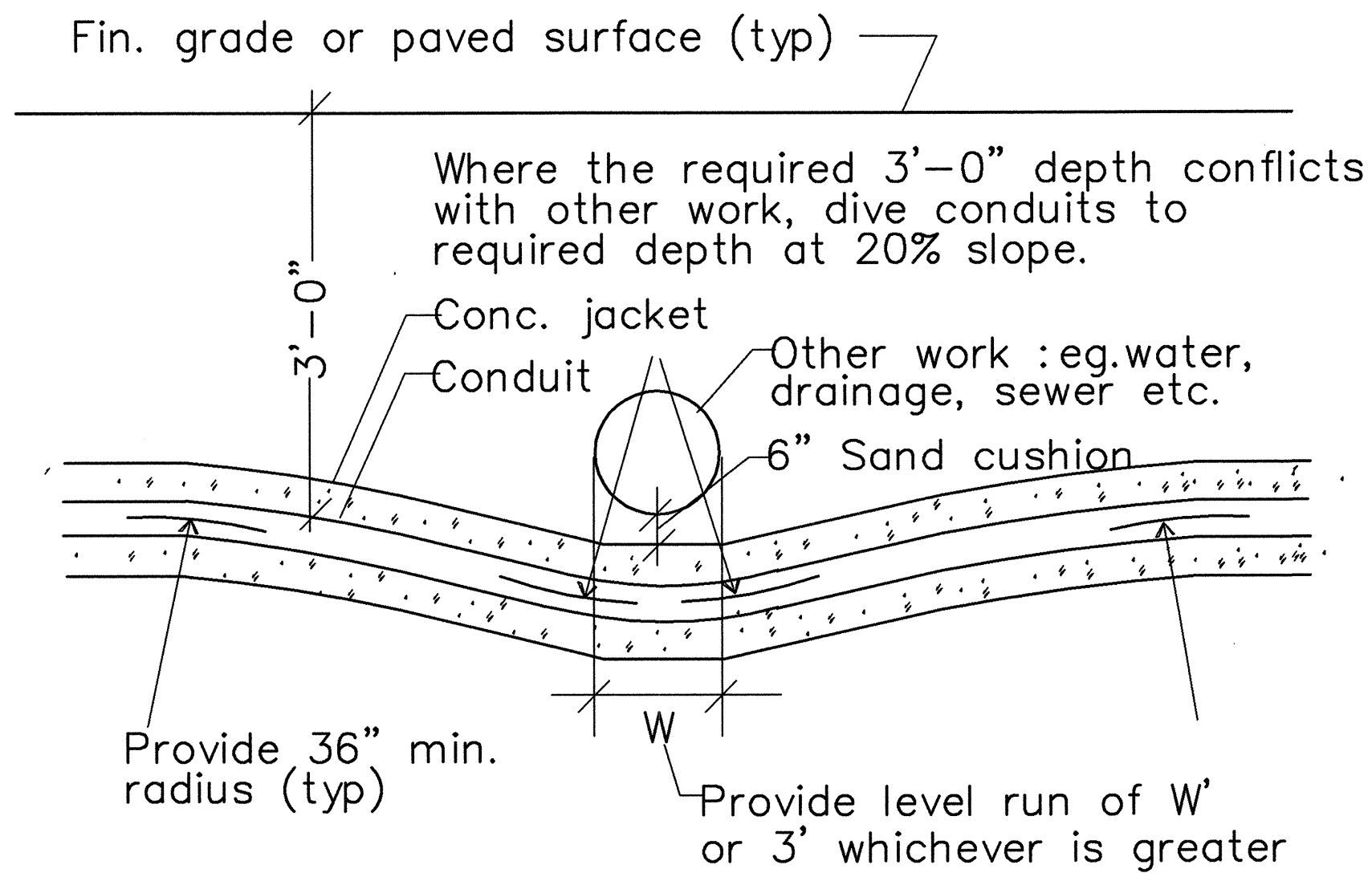


Note

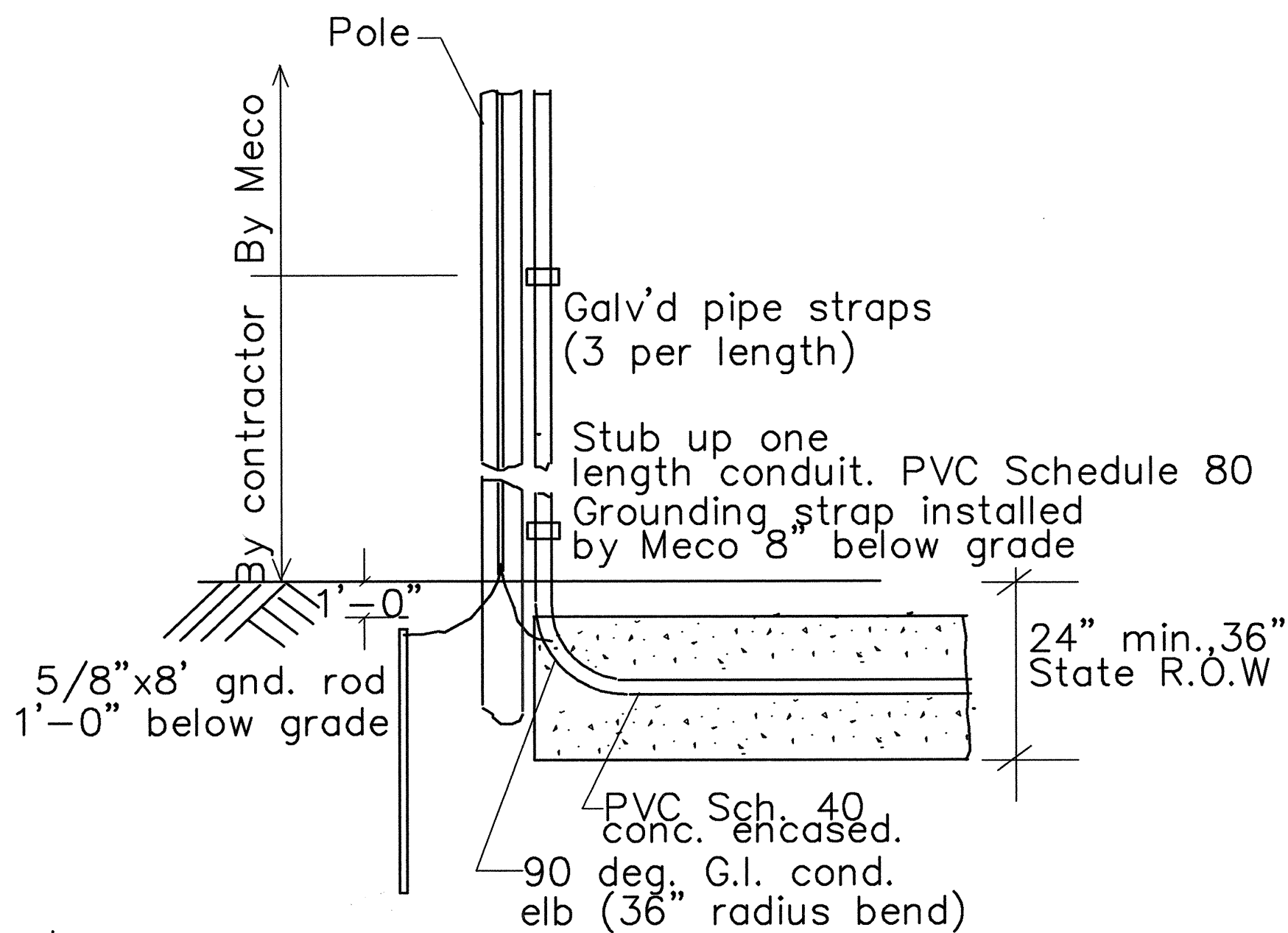
If the normal material in the bottom of the trench is not Type "B" an additional 3" shall be excavated and filled with Type "B" material.



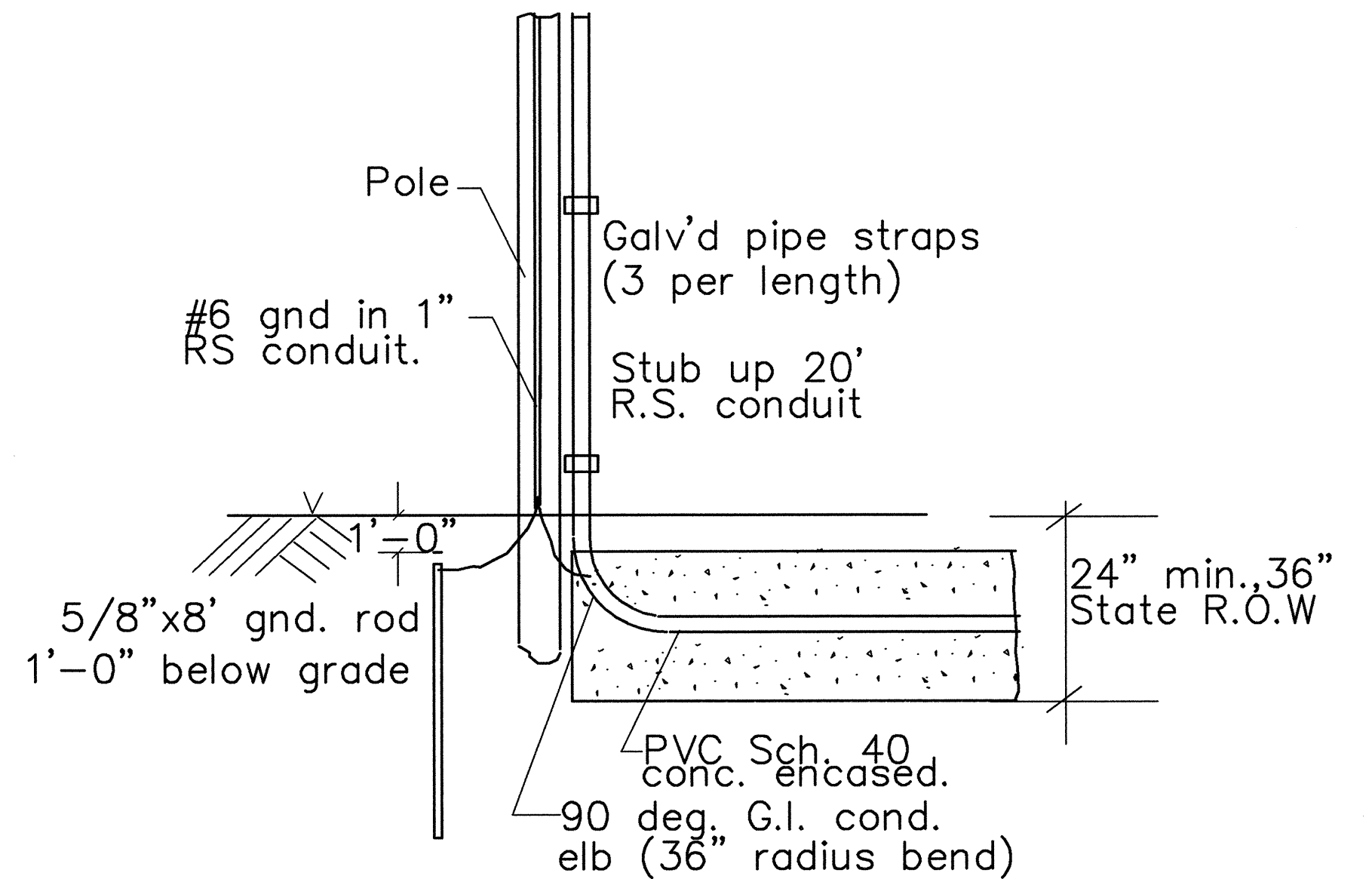
Concrete encasement shall be 2500psi in 28 days, max aggregate size shall be 3/4"



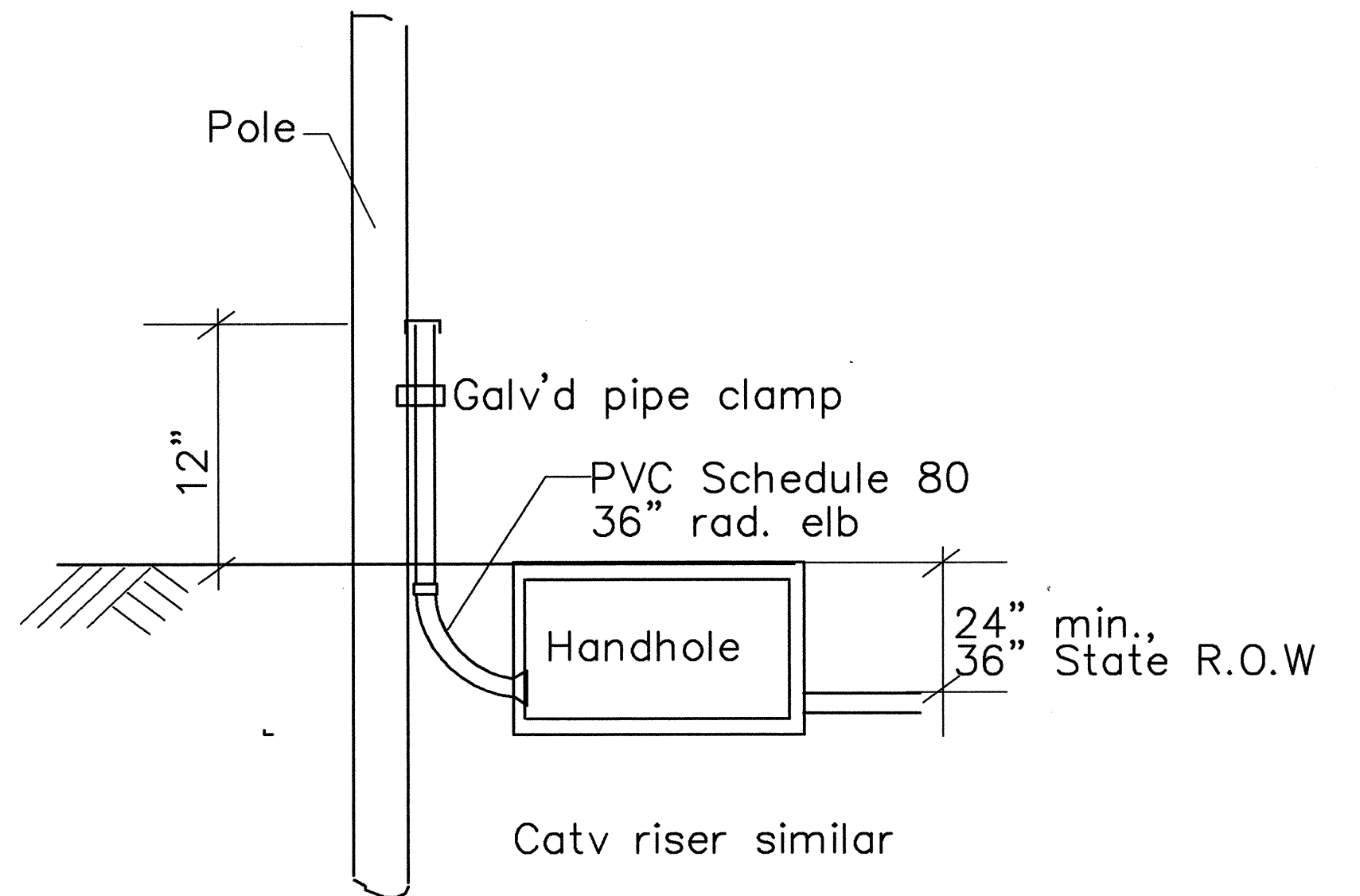
TYPICAL DUCTS CROSSING UNDER OTHER WORK
NTS



TYPICAL MECO RISER
NTS



TYPICAL HC&S RISER
NTS



TYPICAL HTCO RISER
NTS

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Cane Haul Road
To
Maui Humane Society
Federal - Aid Project No. NH-0311(5)
Scale: 1" = 40'-0" Date: JUNE2002

SHEET No. E-9 OF 9 SHEETS