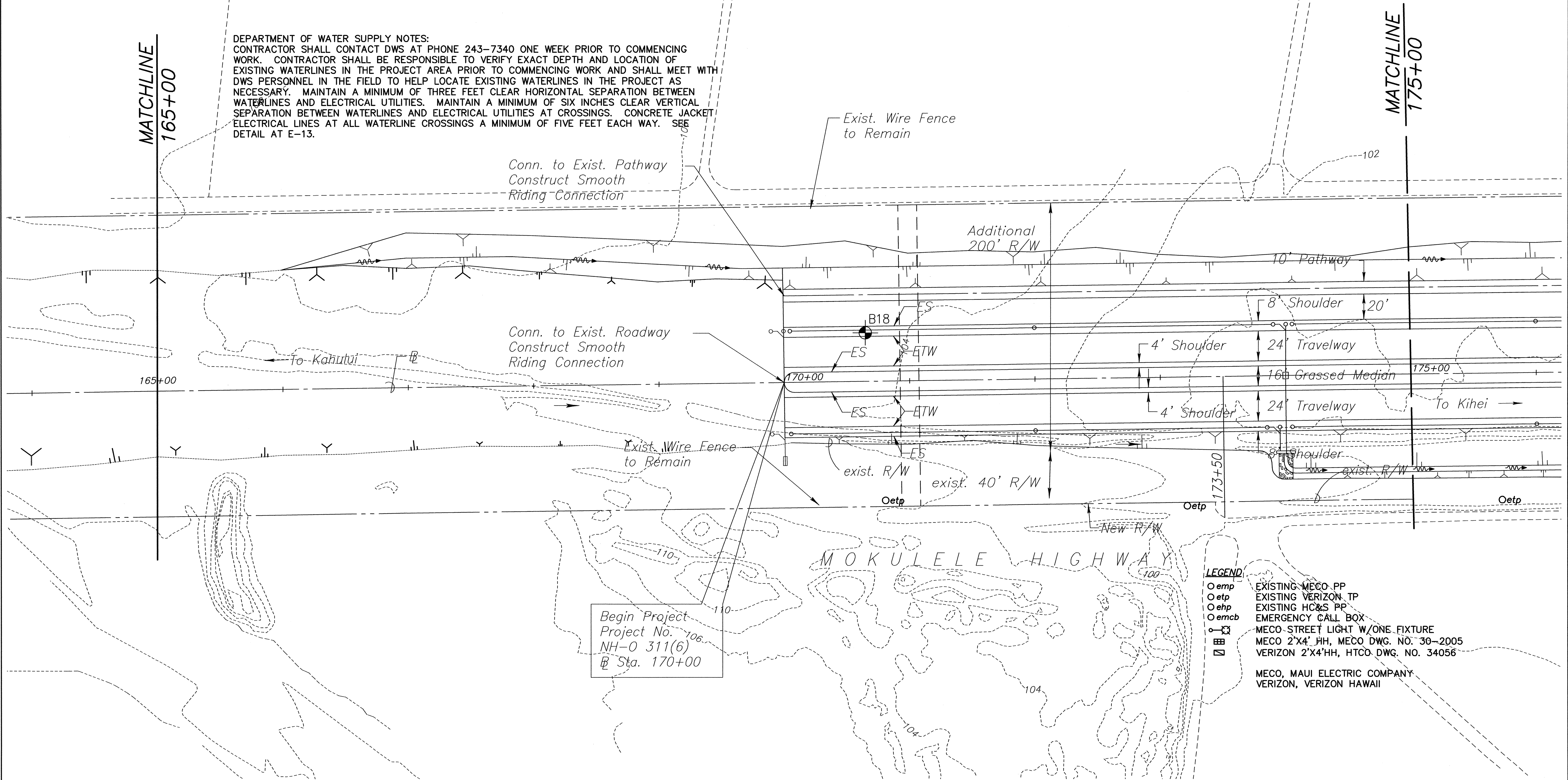


FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	161	173

CONSTRUCTION NOTES:
CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS BEFORE COMMENCING WORK, INCLUDING, BUT NOT LIMITED TO STATE HIGHWAY PERMIT TO WORK ON STATE R.O.W. AND LAND USE AND CODES PERMIT TO WORK ON COUNTY R.O.W. CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF THE PERMITS, INCLUDING PROVISIONS ON TRAFFIC CONTROL. TRAFFIC CONTROL PLANS AND CONSTRUCTION NOTES PROVIDED ELSEWHERE IN THESE DRAWINGS ARE APPLICABLE TO THIS WORK.

DEPARTMENT OF WATER SUPPLY NOTES:
CONTRACTOR SHALL CONTACT DWS AT PHONE 243-7340 ONE WEEK PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXACT DEPTH AND LOCATION OF EXISTING WATERLINES IN THE PROJECT AREA PRIOR TO COMMENCING WORK AND SHALL MEET WITH DWS PERSONNEL IN THE FIELD TO HELP LOCATE EXISTING WATERLINES IN THE PROJECT AS NECESSARY. MAINTAIN A MINIMUM OF THREE FEET CLEAR HORIZONTAL SEPARATION BETWEEN WATERLINES AND ELECTRICAL UTILITIES. MAINTAIN A MINIMUM OF SIX INCHES CLEAR VERTICAL SEPARATION BETWEEN WATERLINES AND ELECTRICAL UTILITIES AT CROSSINGS. CONCRETE JACKET ELECTRICAL LINES AT ALL WATERLINE CROSSINGS A MINIMUM OF FIVE FEET EACH WAY. SEE DETAIL AT E-13.

True North
Scale: 1 inch = 40 feet



- LEGEND**
- emp EXISTING MECO PP
 - etp EXISTING VERIZON TP
 - ehf EXISTING HC&S PP
 - emcb EMERGENCY CALL BOX
 - MECO STREET LIGHT W/ONE FIXTURE
 - MECO 2'x4' JH, MECO DWG. NO. 30-2005
 - VERIZON 2'x4'HH, HTCO DWG. NO. 34056
 - MECO, MAUI ELECTRIC COMPANY
 - VERIZON, VERIZON HAWAII

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

HILTON H. UNERORI
LICENSED PROFESSIONAL ENGINEER
No. 5578-E
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

Maui Humane Society

To
Vicinity of Kolaloa Bridge

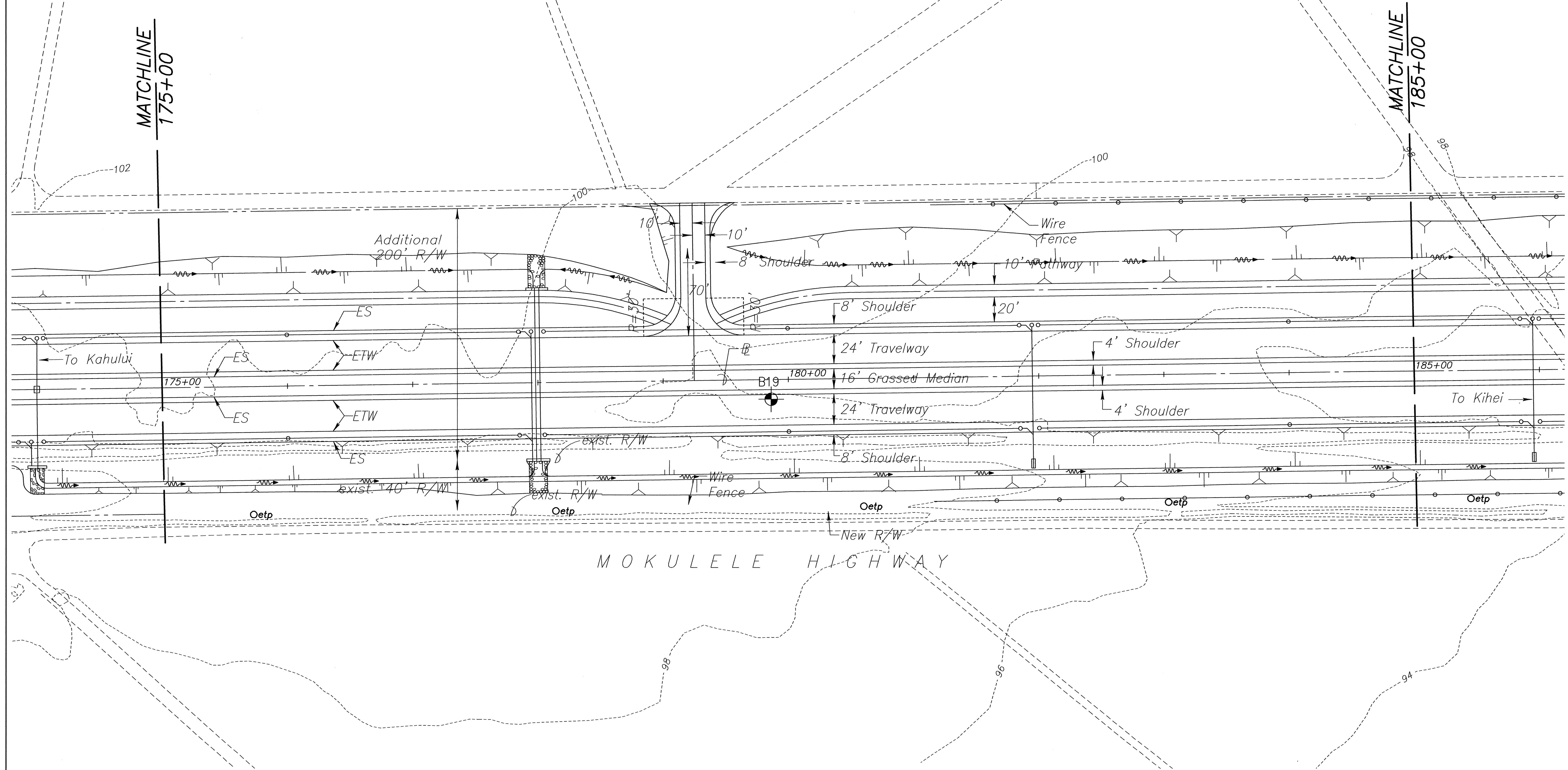
Federal - Aid Project No. NH-A311(6)R

Scale: 1"=40' Date: JUNE 2005

SHEET No. E-1 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	162	173

True North
Scale: 1 inch = 40 feet



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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No.	DESIGNED BY	
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	CHECKED BY	

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APRIL 2006

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

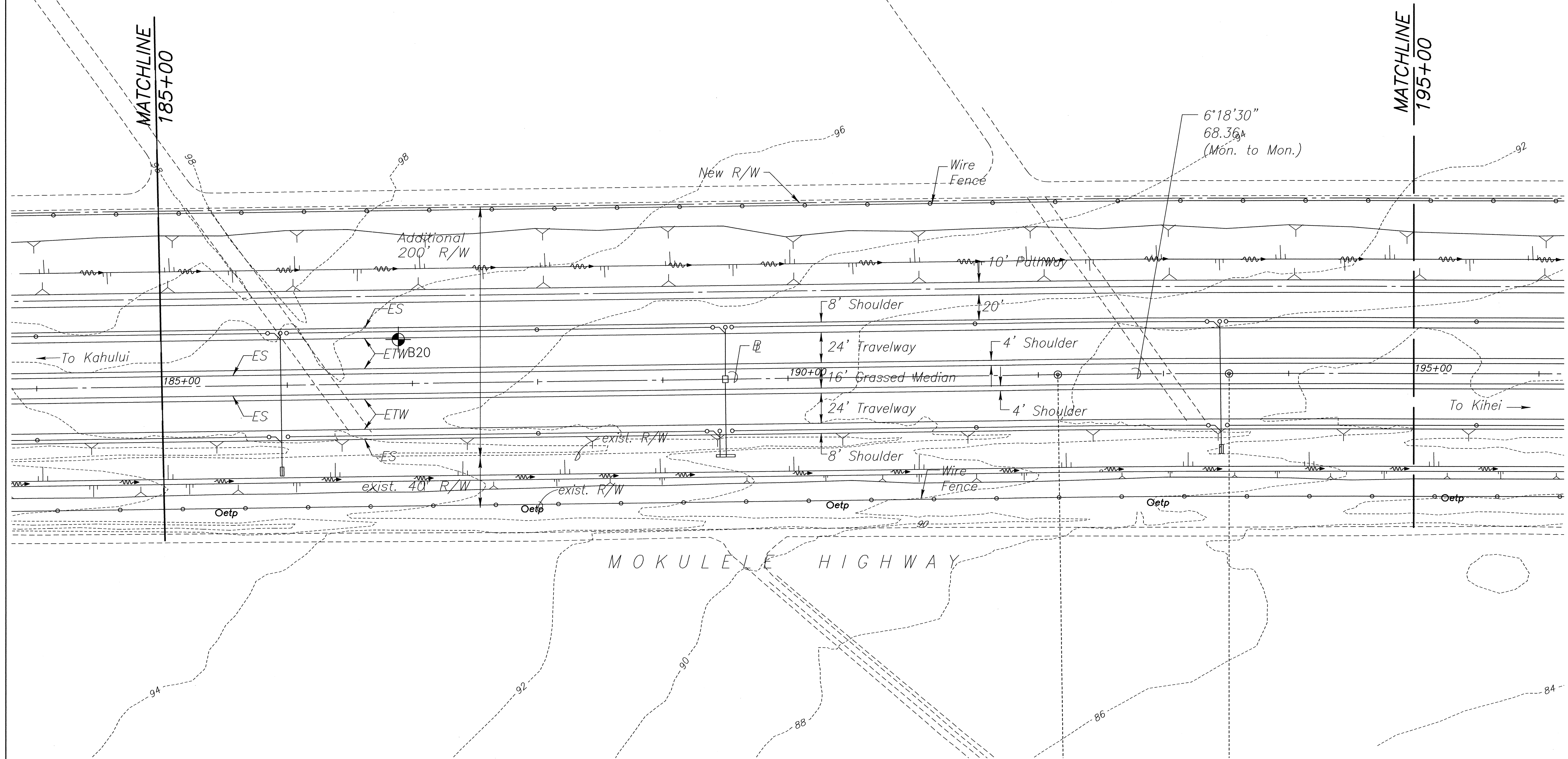
MOKULELE HIGHWAY WIDENING

Maui Humane Society
To
Vicinity of Kolaloa Bridge
Federal - Aid Project No. NH-A311(6)R
Scale: 1"=40' Date: JUNE 2005

SHEET No. E-2 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	163	173

True North
Scale: 1 inch = 40 feet



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NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY		
No.		

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APRIL 2006
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

Maui Humane Society

To
Vicinity of Kolaloa Bridge

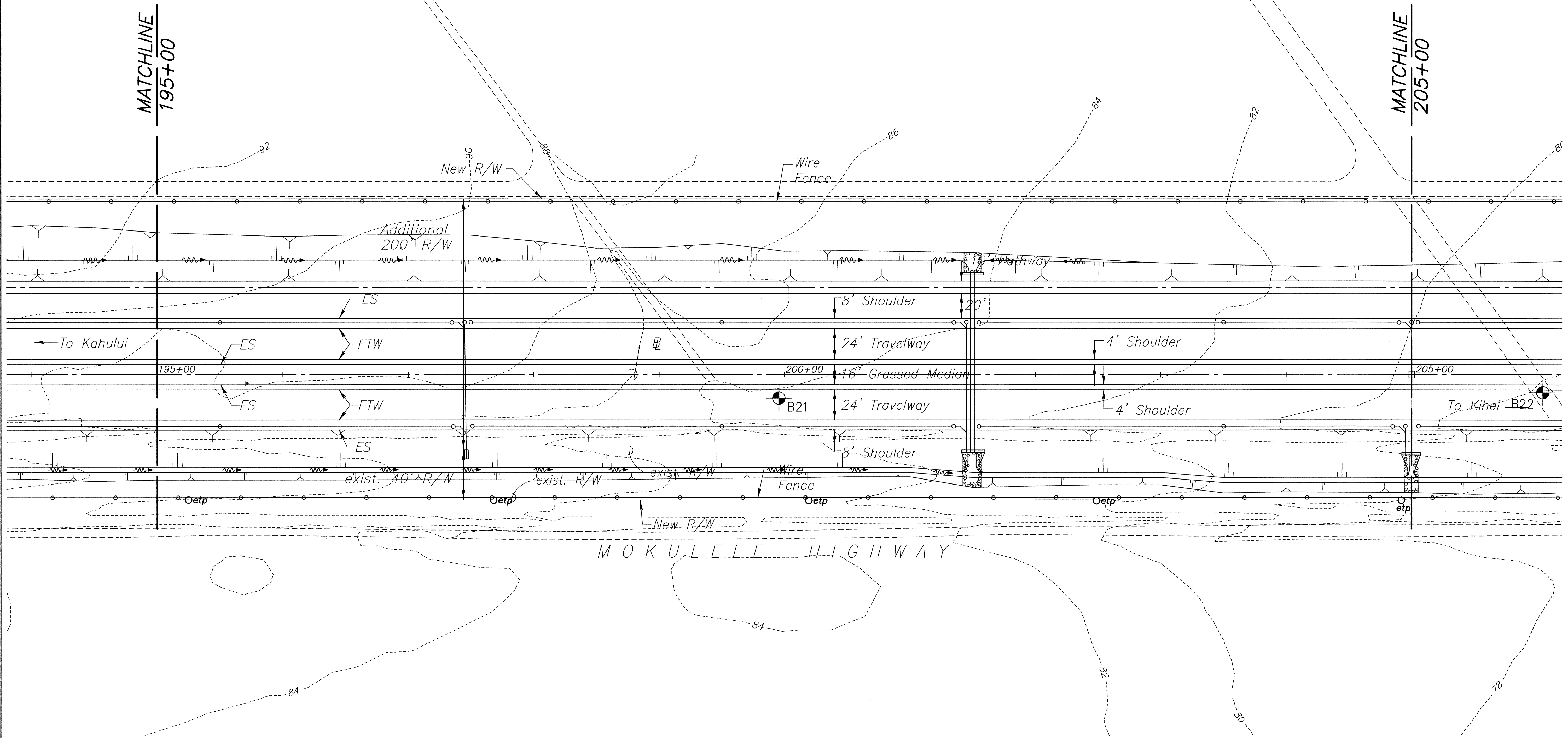
Federal - Aid Project No. NH-A311(6)R

Scale: 1"=40' Date: JUNE 2005

SHEET No. **E-3** OF **13** SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	164	173

True North
Scale: 1 inch = 40 feet



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NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	
No.		

HILTON H. UNGER

LICENSED PROFESSIONAL ENGINEER

No. 5578-E

HAWAII, U.S.A.

Hilton H. Unger

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APRIL 2006

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

Maui Humane Society

To

Vicinity of Kolaloa Bridge

Federal - Aid Project No. NH-A311(6)R

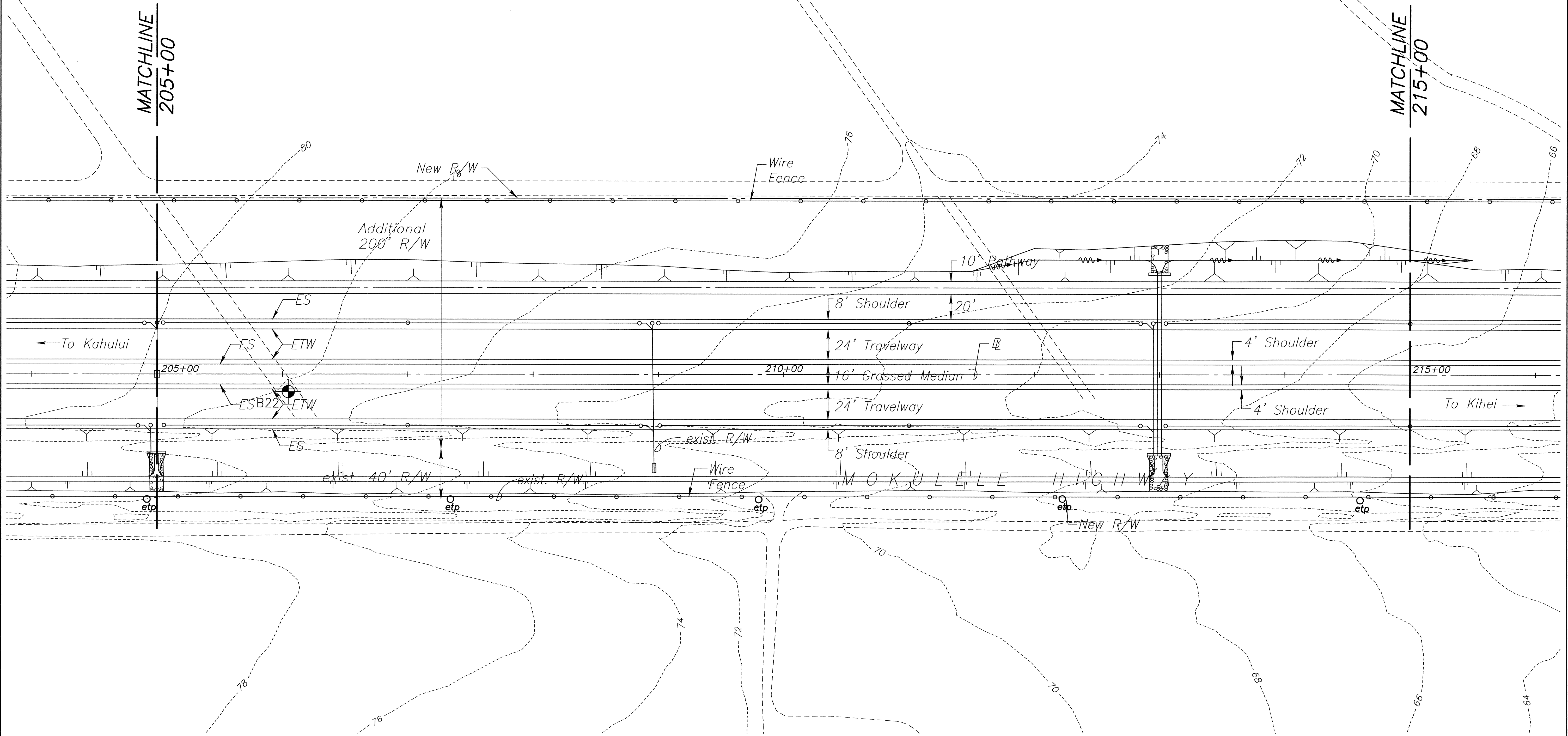
Scale: 1"=40'

Date: JUNE 2005

SHEET No. E-4 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	165	173

True North
Scale: 1 inch = 40 feet



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

Maui Humane Society

To
Vicinity of Koolaa Bridge

Federal - Aid Project No. NH-A311(6)R

Scale: 1"=40' Date: JUNE 2005

SHEET No. E-5 OF 13 SHEETS

HILTON H. UENURI
LICENSED PROFESSIONAL ENGINEER
No. 5578-E
HAWAII, U.S.A.

Hilton H. Uenuri

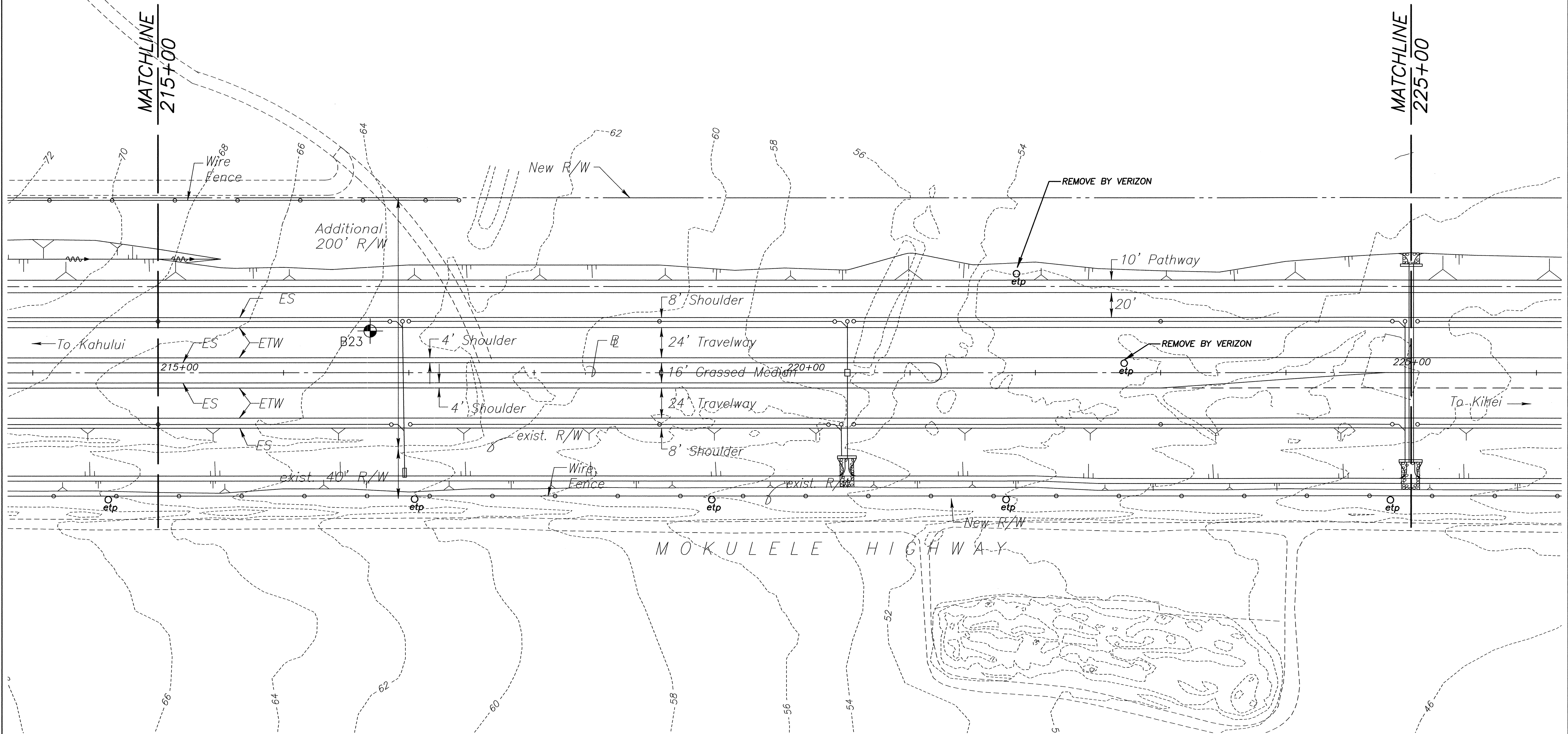
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APRIL 2006

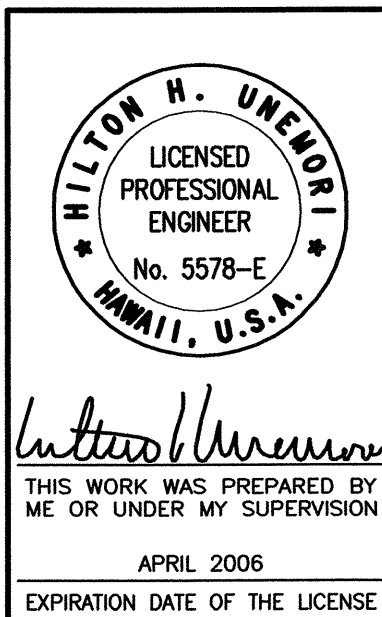
EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	166	173

True North
Scale: 1 inch = 40 feet



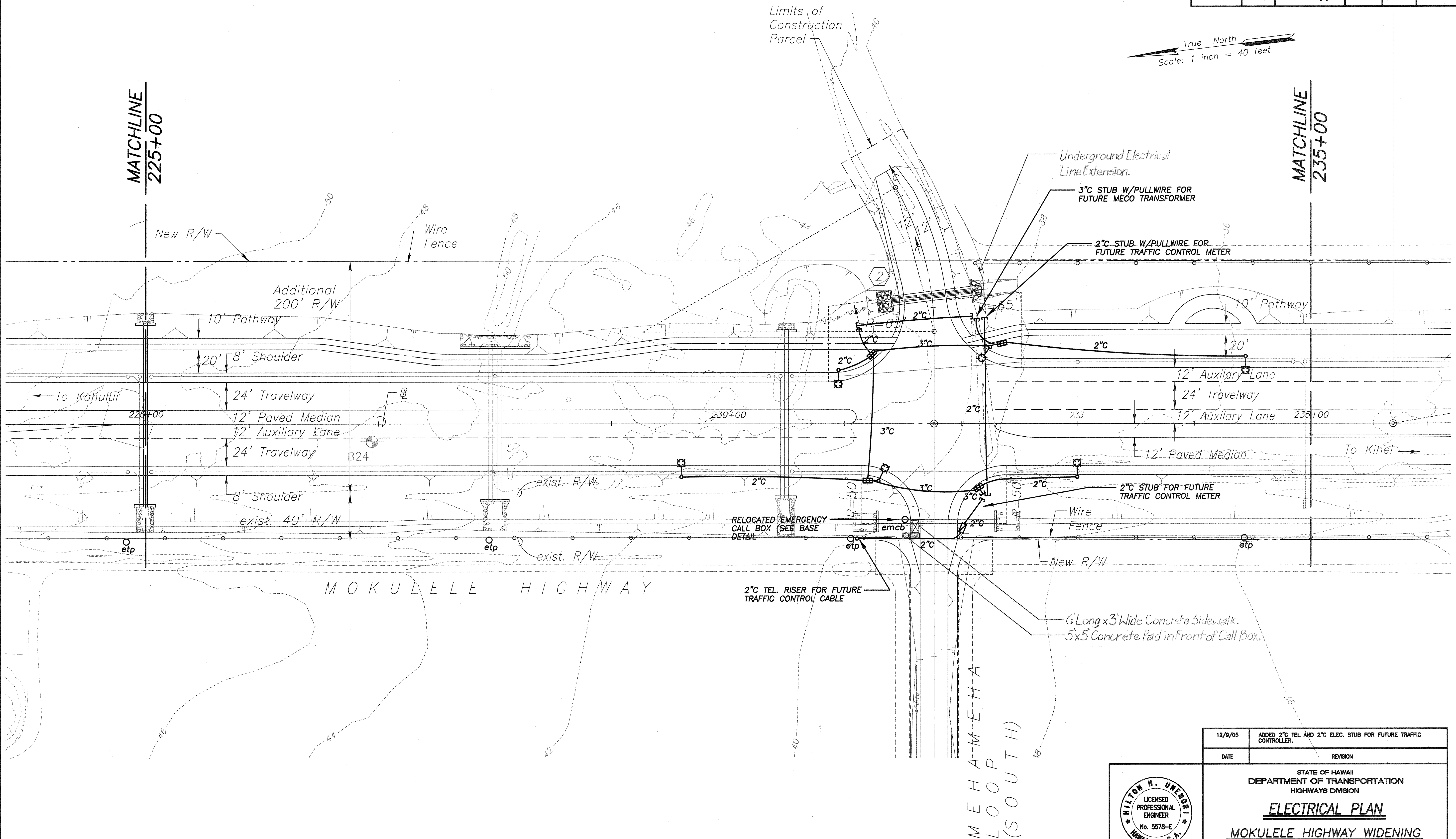
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	CHECKED BY	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL PLAN
MOKULELE HIGHWAY WIDENING
Maui Humane Society
To
Vicinity of Kolaloa Bridge
Federal - Aid Project No. NH-A311(6)R
Scale: 1"=40' Date: JUNE 2005
SHEET No. E-6 OF 13 SHEETS

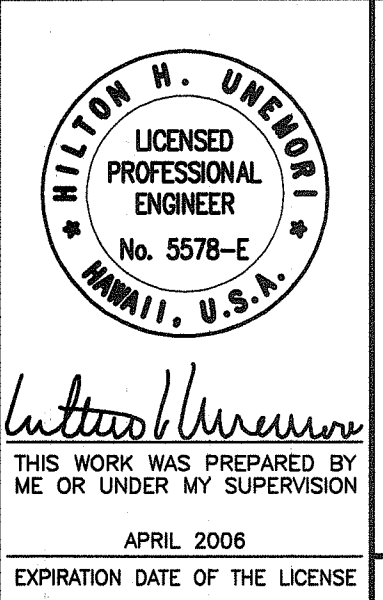
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2005	167	173

True North
Scale: 1 inch = 40 feet



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12/9/05	ADDED 2\"C TEL AND 2\"C ELEC. STUB FOR FUTURE TRAFFIC CONTROLLER.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ELECTRICAL PLAN MOKULELE HIGHWAY WIDENING Maui Humane Society To Vicinity of Kolaloa Bridge Federal - Aid Project No. NH-A311(6)R Scale: 1\"=40' Date: JUNE 2005	
SHEET No. E-7 OF 13 SHEETS	

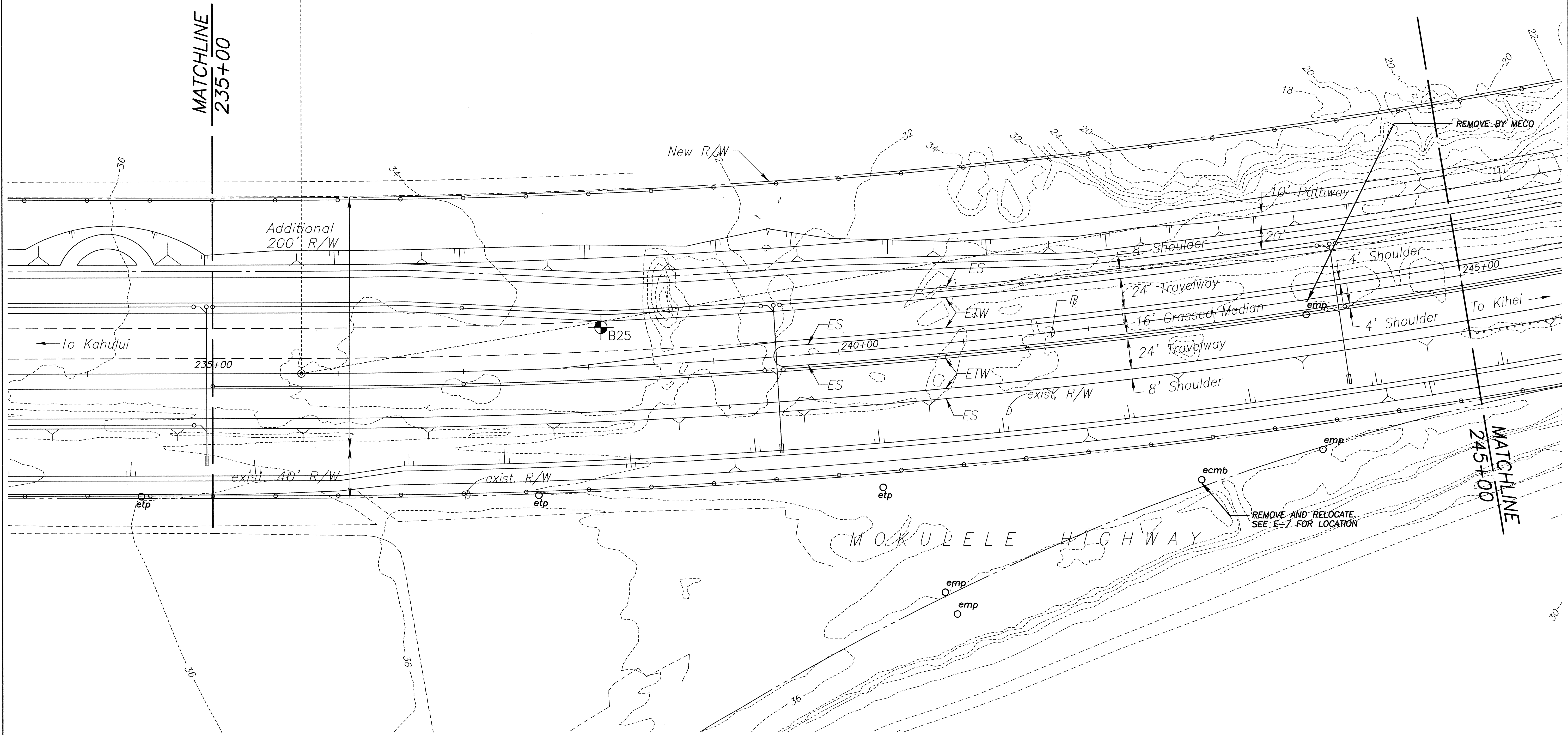


"AS-BUILT"

ADD. 167

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	168	173

True North
Scale: 1 inch = 40 feet

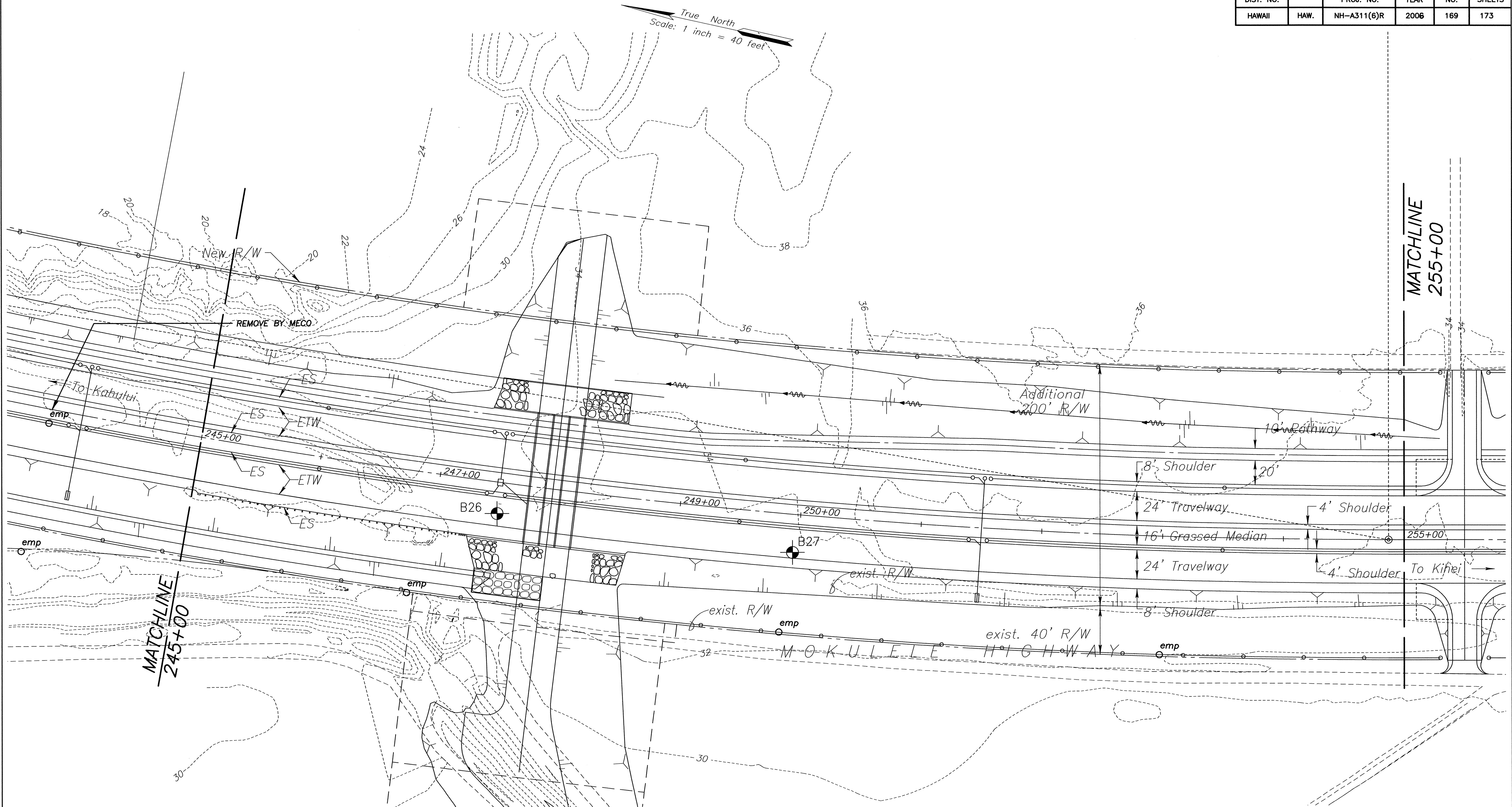


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	CHECKED BY	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL PLAN
MOKULELE HIGHWAY WIDENING
Maui Humane Society
To
Vicinity of Kolaloa Bridge
Federal - Aid Project No. NH-A311(6)R
Scale: 1"=40' Date: JUNE 2005
SHEET No. E-6 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	169	173



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

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APRIL 2006
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PLAN

MOKULELE HIGHWAY WIDENING

Maui Humane Society

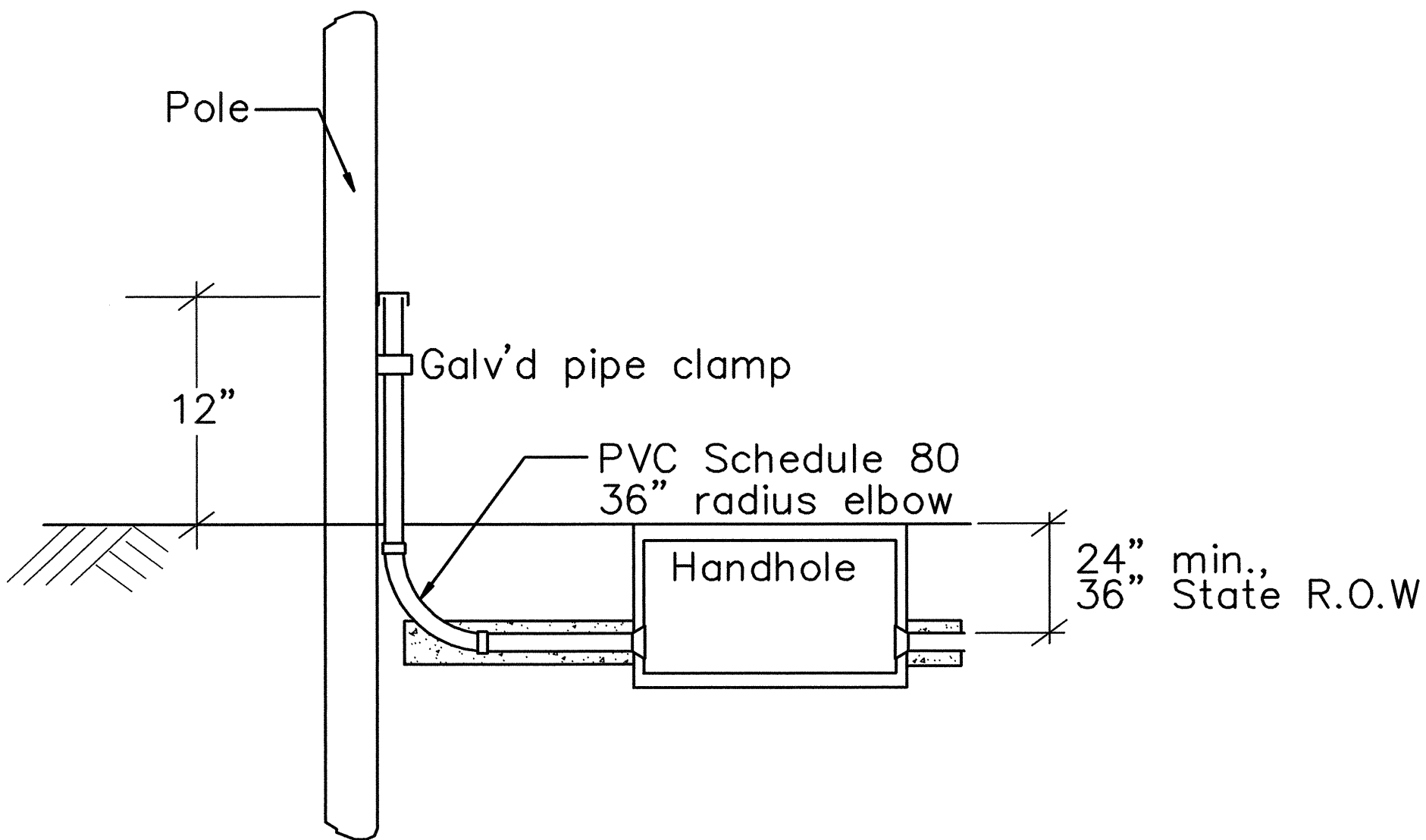
To
Vicinity of Kalaloa Bridge

Federal - Aid Project No. NH-A311(6)R

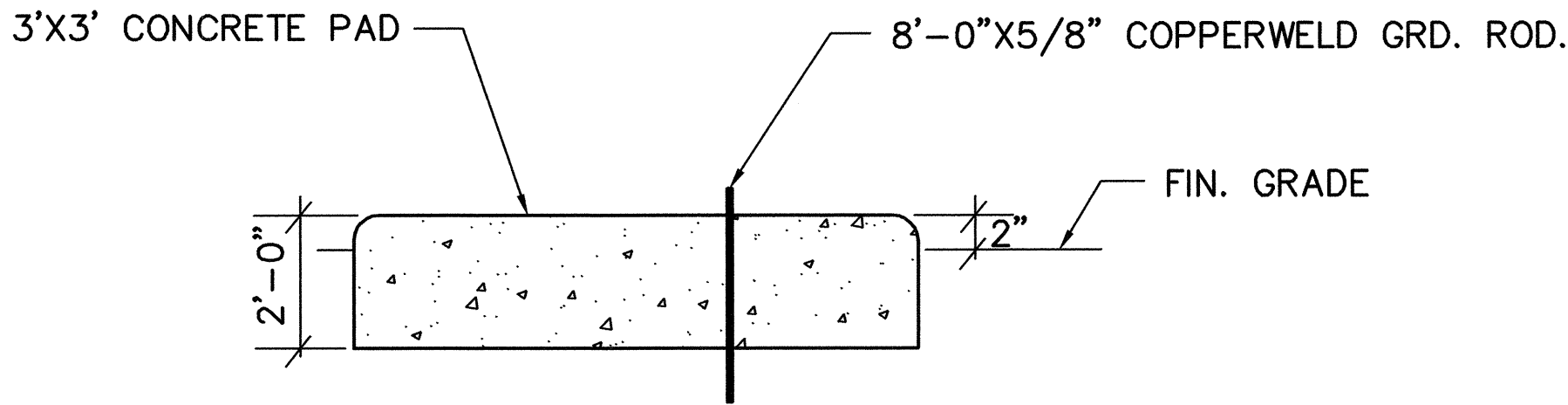
Scale: 1"=40' Date: JUNE 2005

SHEET No. **E-9** OF **13** SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	171	173

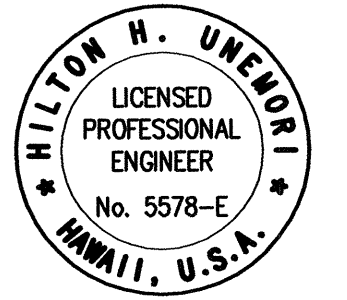


TYPICAL VERIZON RISER
NTS

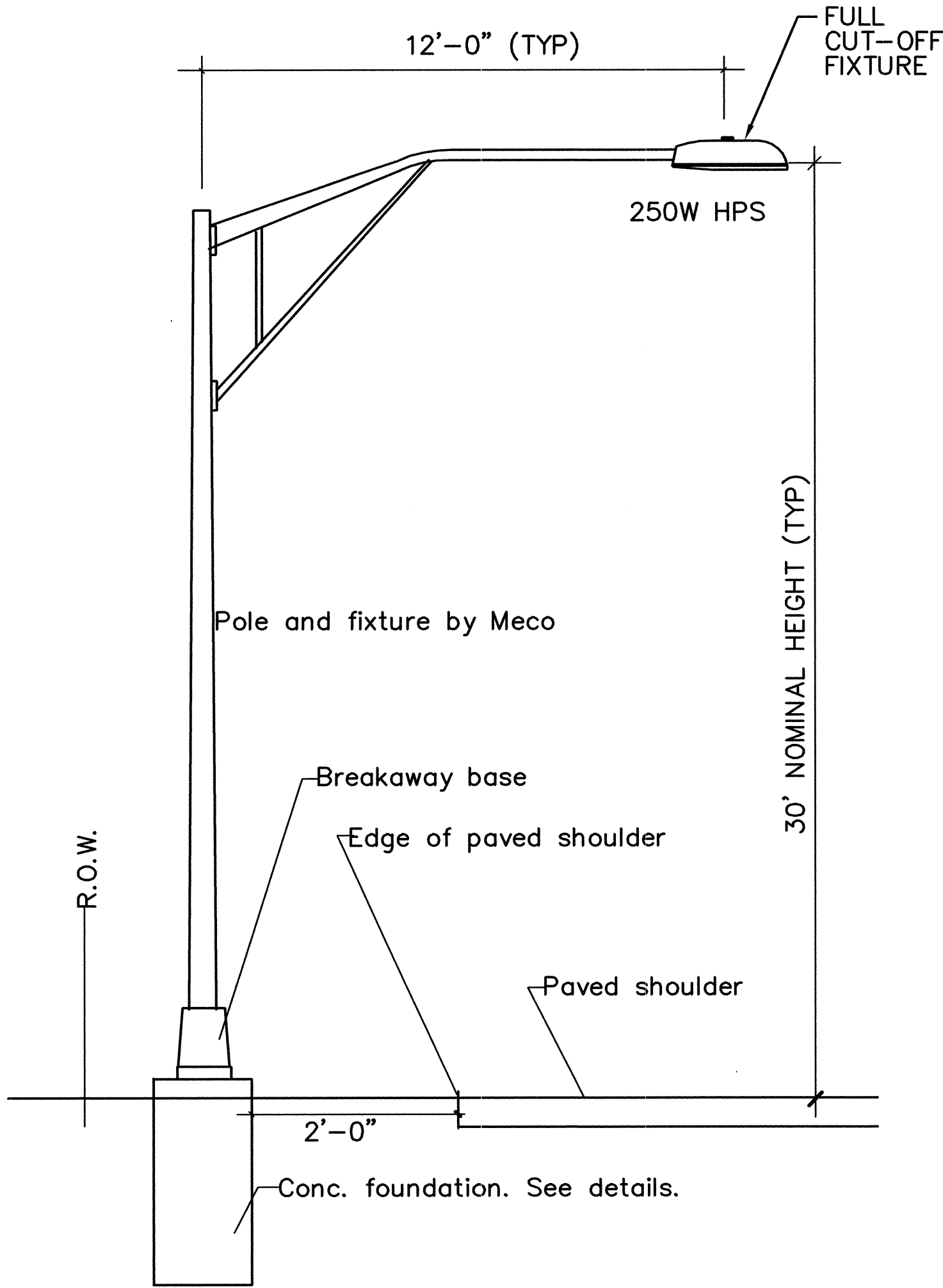


EMERGENCY CALL BOX CONCRETE PAD DETAIL
NTS

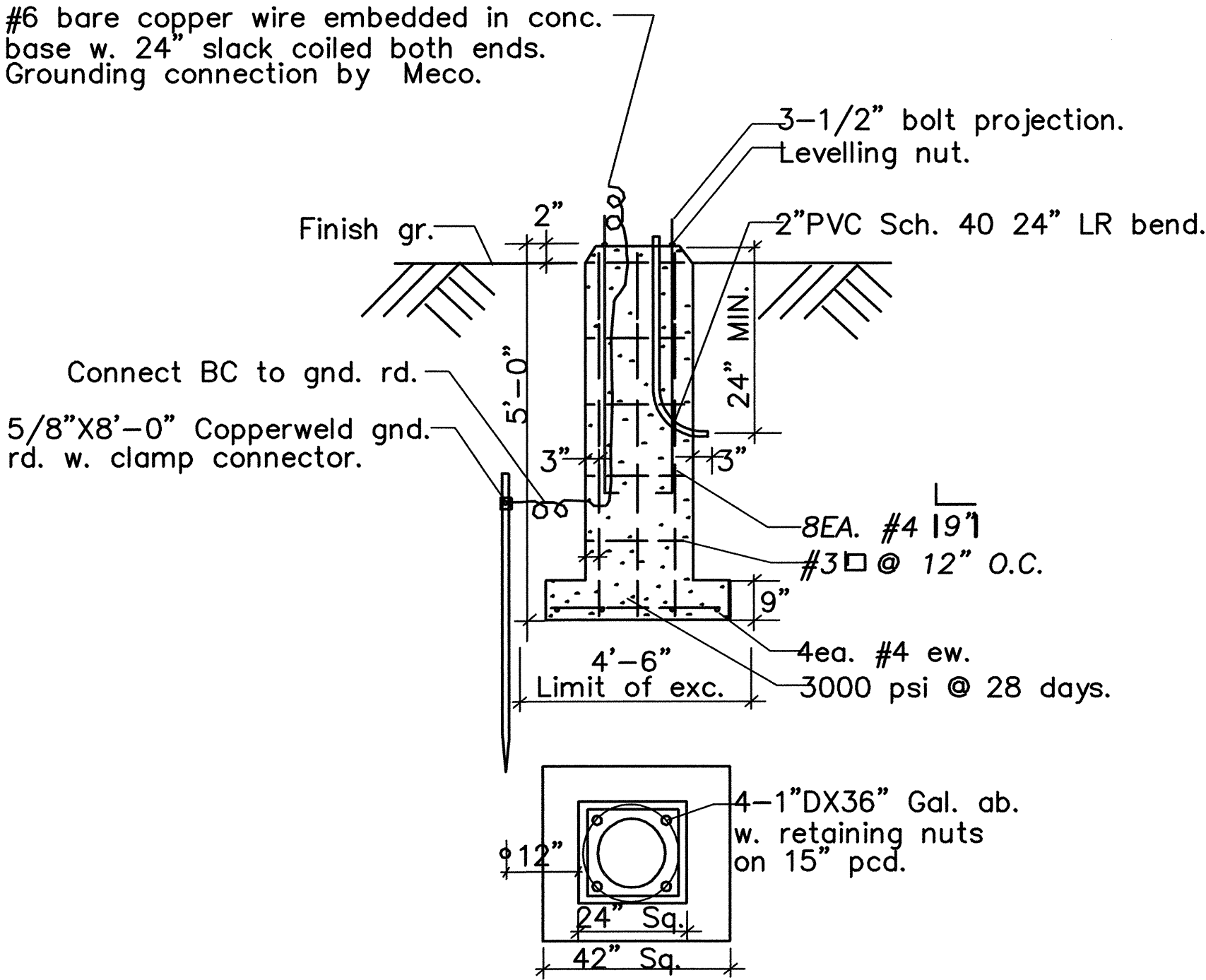
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	" "
No. _____	DESIGNED BY	" "
	QUANTITIES BY	" "
	CHECKED BY	" "

 <i>Hilton H. Unzueta</i> THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION APRIL 2006 EXPIRATION DATE OF THE LICENSE	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>ELECTRICAL PLAN</u> <u>MOKULELE HIGHWAY WIDENING</u> <u>Maui Humane Society</u> <u>To</u> <u>Vicinity of Kolaloa Bridge</u> <u>Federal - Aid Project No. NH-A311(6)R</u> <u>Date: JUNE 2005</u>
	SHEET No. E-11 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	172	173



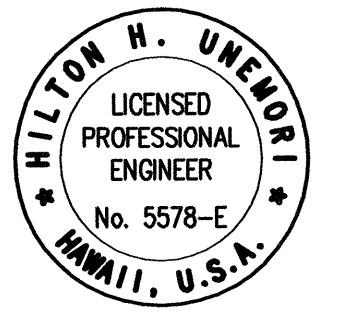
STREET LIGHT A
NTS



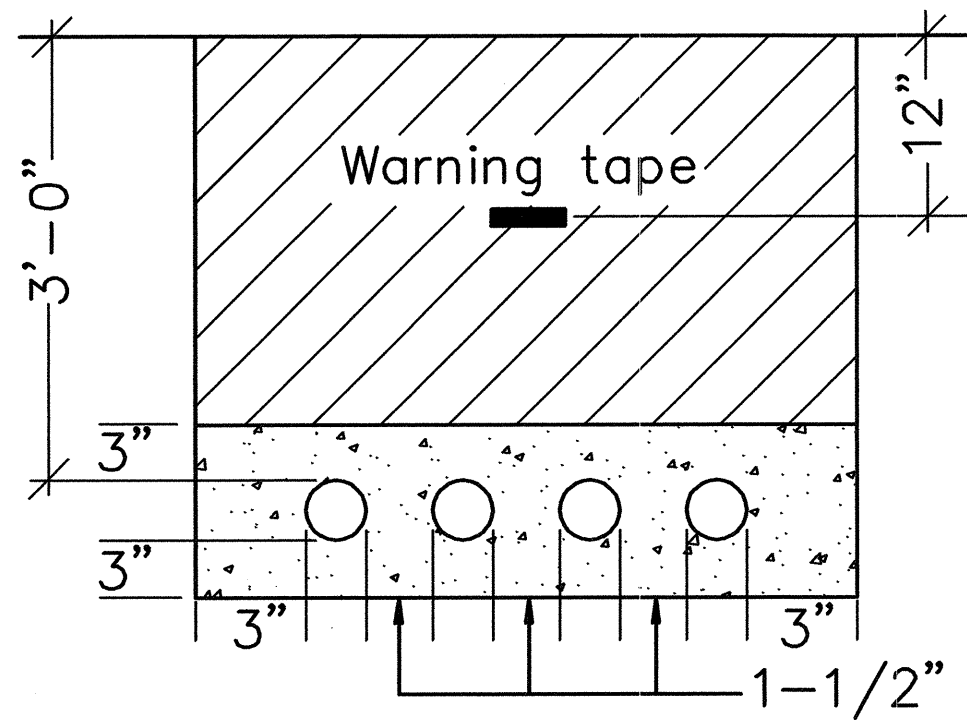
1. Precast foundation fabricated by Walker Industries at HC&D.
2. 4 galv. abs furnished by Meco. Contractor pick up abs at Meco's Kahului Warehouse.
3. Meco inspection is required before fabrication. Call 877-8641 for inspection.

TYPICAL STREET LIGHT FOUNDATION DETAIL
NTS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
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	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION APRIL 2006 EXPIRATION DATE OF THE LICENSE	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>ELECTRICAL PLAN</u> <u>MOKULELE HIGHWAY WIDENING</u> Maui Humane Society To Vicinity of Kolaloa Bridge Federal - Aid Project No. NH-A311(6)R Date: JUNE 2005
	SHEET No. E-12 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(6)R	2006	173	173

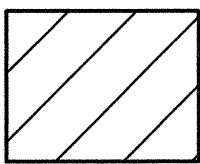


Note: See plan for number and size of conduits

TYPICAL ELECTRICAL AND TELEPHONE CONDUIT TRENCH
NTS

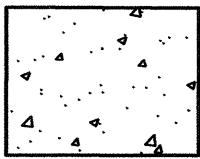
Duct Notes:

1. All conduits shall be PVC Schedule 40.
2. All conduits to contain a mule tape line
Wesco Cat. #0725-9200 or equal.
3. 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.
4. Backfill legend:

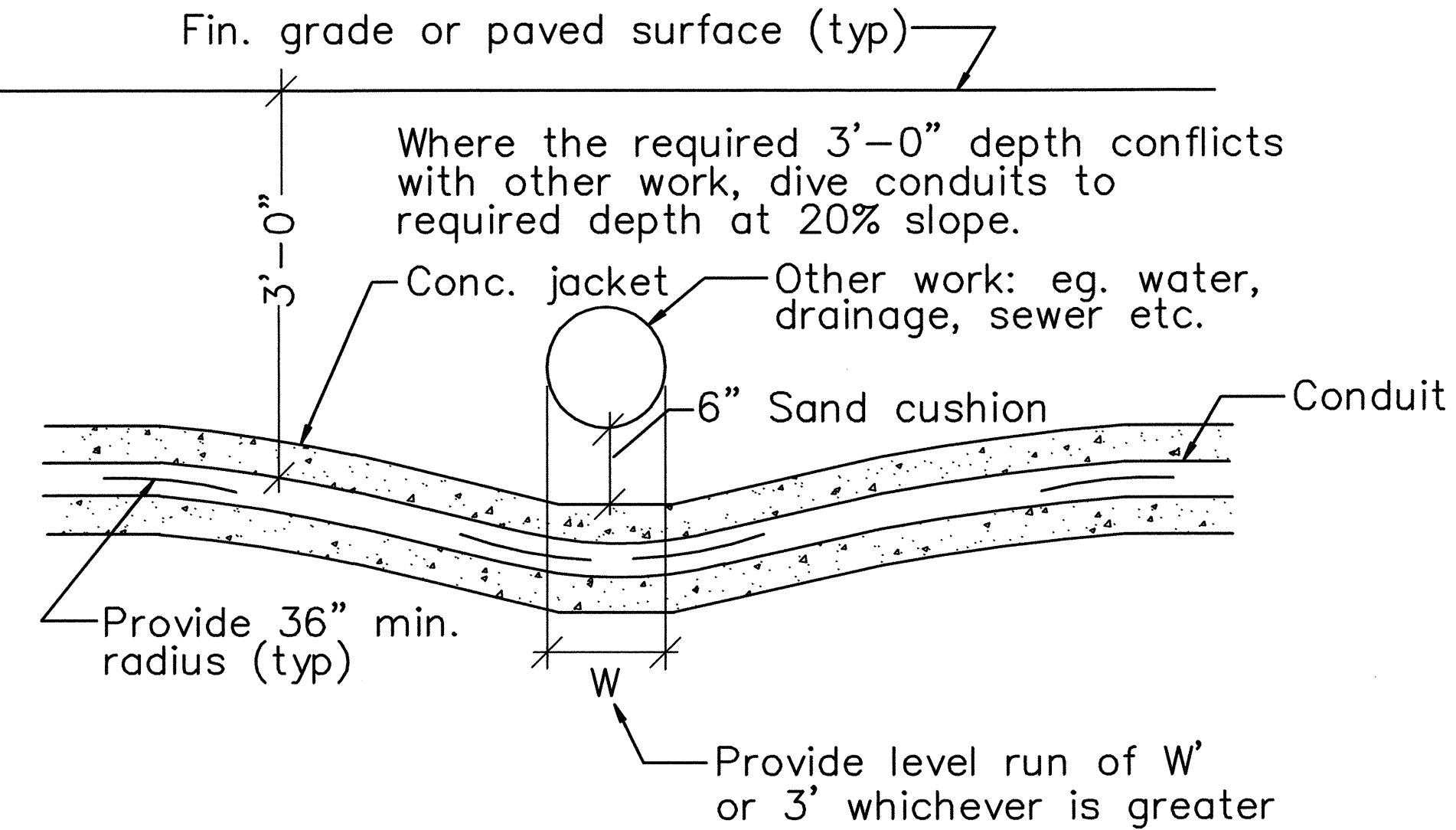


Type "A" backfill

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.



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



TYPICAL DUCTS CROSSING UNDER OTHER WORK
NTS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	CHECKED BY	
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	SHEET No. E-13 OF 13 SHEETS