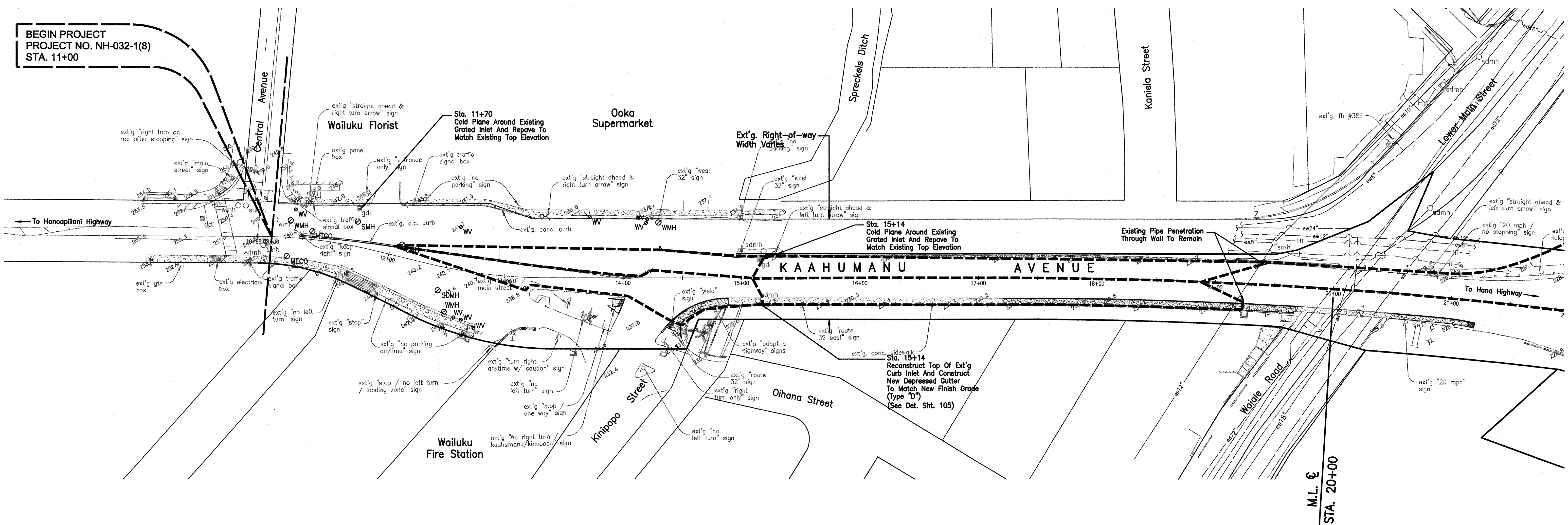
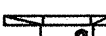


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	38	111

TRUE NORTH
SCALE: 1 IN. = 40 FT

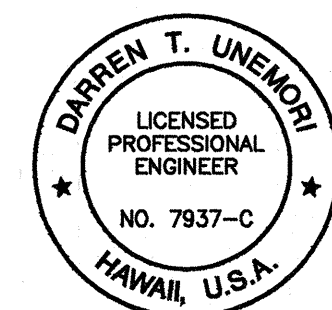


LEGEND:

- | | | | |
|---|---|---|-------------------------------------|
|  | EXISTING POWER POLE |  | ADJUSTED SEWER MH FRAME/COVER |
|  | EXISTING TELEPHONE POLE |  | EXISTING MONUMENT |
|  —ew12"— | EXISTING 12" WATERLINE |  | ADJUSTED MONUMENT |
|  | EXISTING WATER MANHOLE |  —ed24"— | EXISTING 24" DRAINLINE |
|  | ADJUSTED WATER MH FRAME/COVER |  | EXISTING STORM DRAIN MANHOLE |
|  | EXISTING WATER AIR VALVE |  | ADJUSTED STORM DRAIN MH FRAME/COVER |
|  | ADJUSTED WATER AIR VALVE MH FRAME/COVER |  | EXISTING GRATED DROP INLET |
|  | EXISTING WATER VALVE BOX |  | EXISTING CATCH BASIN |
|  | ADJUSTED WATER VALVE BOX |  | EXISTING TRAFFIC SIGN |
|  | EXISTING WATER METER |  | EXISTING HIGHWAY LIGHTING STANDARD |
|  | ADJUSTED WATER METER |  | EXISTING METAL GUARDRAIL |
|  | EXISTING FIRE HYDRANT |  | NEW SINGLE METAL GUARDRAIL |
|  —es8"— | EXISTING 8" SEWERLINE |  | EXISTING FENCE |
|  | EXISTING SEWER MANHOLE |  | TYPE II OBJECT MARKER |

LEGEND: (Trees)

- | | | | |
|---|-------------------------|---|--------------------------|
|  | EXISTING AFRICAN TULIP |  | EXISTING MONKEY POD TREE |
|  | EXISTING BANYAN TREE |  | EXISTING PALM TREE |
|  | EXISTING CHRISTMAS TREE |  | EXISTING PLUMERIA TREE |
|  | EXISTING COCONUT TREE |  | EXISTING POINCIANA TREE |
|  | EXISTING KIAWE TREE |  | EXISTING SHOWER TREE |
|  | EXISTING KUKUI TREE |  | EXISTING TREE (UNKNOWN) |



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION


Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY DRAINAGE PLAN

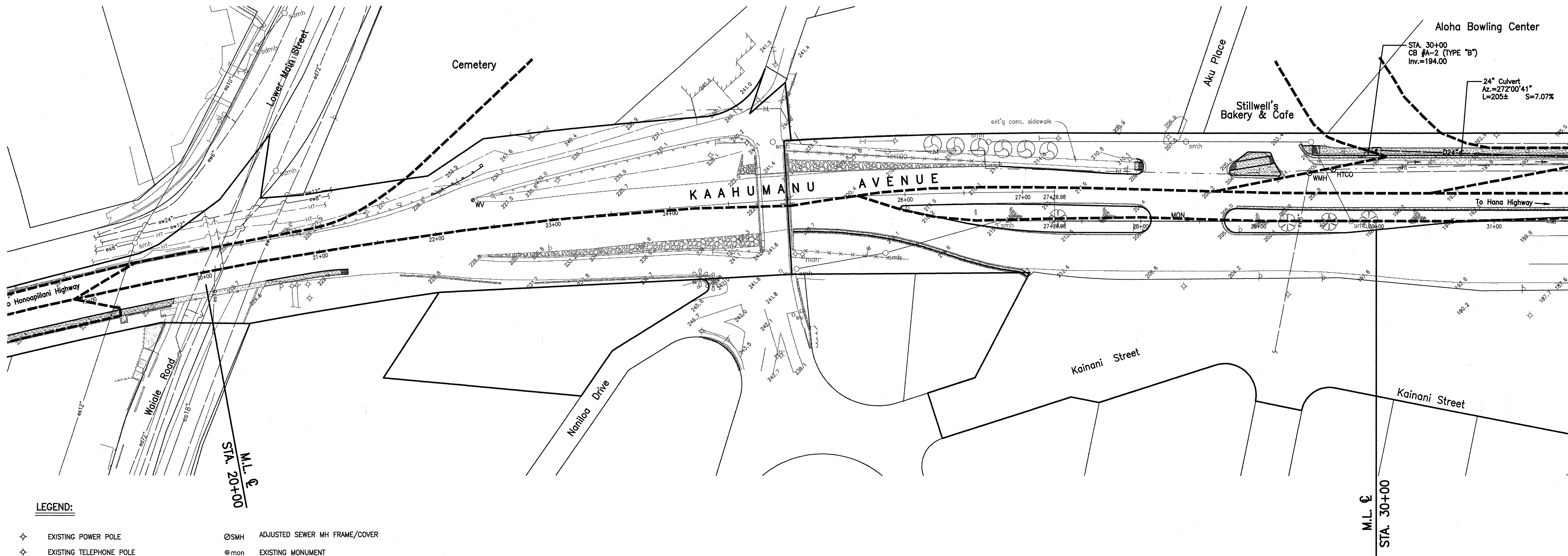
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBRON AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED

SHEET No. 1 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	39	111

TRUE NORTH
SCALE: 1 IN. = 40 FT.

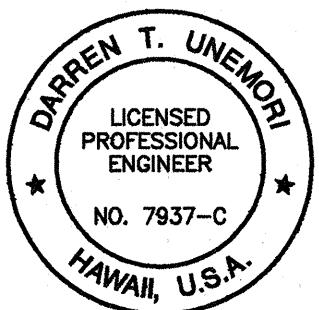


LEGEND:

- | | | | |
|---------|---|---------|-------------------------------------|
| ✦ | EXISTING POWER POLE | ⊙SMH | ADJUSTED SEWER MH FRAME/COVER |
| ✦ | EXISTING TELEPHONE POLE | ⊙mon | EXISTING MONUMENT |
| —ew12"— | EXISTING 12" WATERLINE | ⊙MON | ADJUSTED MONUMENT |
| ○wmh | EXISTING WATER MANHOLE | —ed24"— | EXISTING 24" DRAINLINE |
| ⊙WMH | ADJUSTED WATER MH FRAME/COVER | ○sdmh | EXISTING STORM DRAIN MANHOLE |
| ○av | EXISTING WATER AIR VALVE | ⊙SDMH | ADJUSTED STORM DRAIN MH FRAME/COVER |
| ⊙AV | ADJUSTED WATER AIR VALVE MH FRAME/COVER | ⊠ | EXISTING GRATED DROP INLET |
| ○wv | EXISTING WATER VALVE BOX | ⊠ | EXISTING CATCH BASIN |
| ⊙WV | ADJUSTED WATER VALVE BOX | ⊠ | EXISTING TRAFFIC SIGN |
| □wm | EXISTING WATER METER | ⊠ | EXISTING HIGHWAY LIGHTING STANDARD |
| ⊠WM | ADJUSTED WATER METER | ⊠ | EXISTING METAL GUARDRAIL |
| ✦ | EXISTING FIRE HYDRANT | ⊠ | NEW SINGLE METAL GUARDRAIL |
| —es8"— | EXISTING 8" SEWERLINE | ⊠ | EXISTING FENCE |
| ○smh | EXISTING SEWER MANHOLE | ○ | TYPE II OBJECT MARKER |

LEGEND: (Trees)

- | | | | |
|---|-------------------------|---|--------------------------|
| ⊙ | EXISTING AFRICAN TULIP | ⊙ | EXISTING MONKEY POD TREE |
| ⊙ | EXISTING BANYAN TREE | ⊙ | EXISTING PALM TREE |
| ⊙ | EXISTING CHRISTMAS TREE | ⊙ | EXISTING PLUMERIA TREE |
| ⊙ | EXISTING COCONUT TREE | ⊙ | EXISTING POINCIANA TREE |
| ⊙ | EXISTING KIWEE TREE | ⊙ | EXISTING SHOWER TREE |
| ⊙ | EXISTING KUKUI TREE | ⊙ | EXISTING TREE (UNKNOWN) |



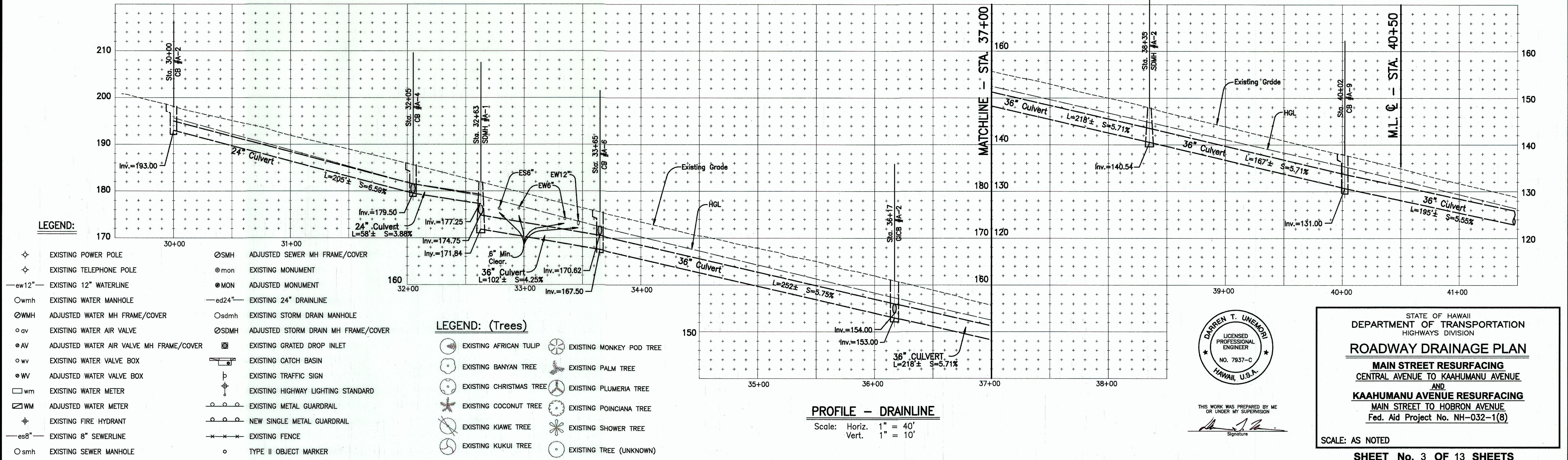
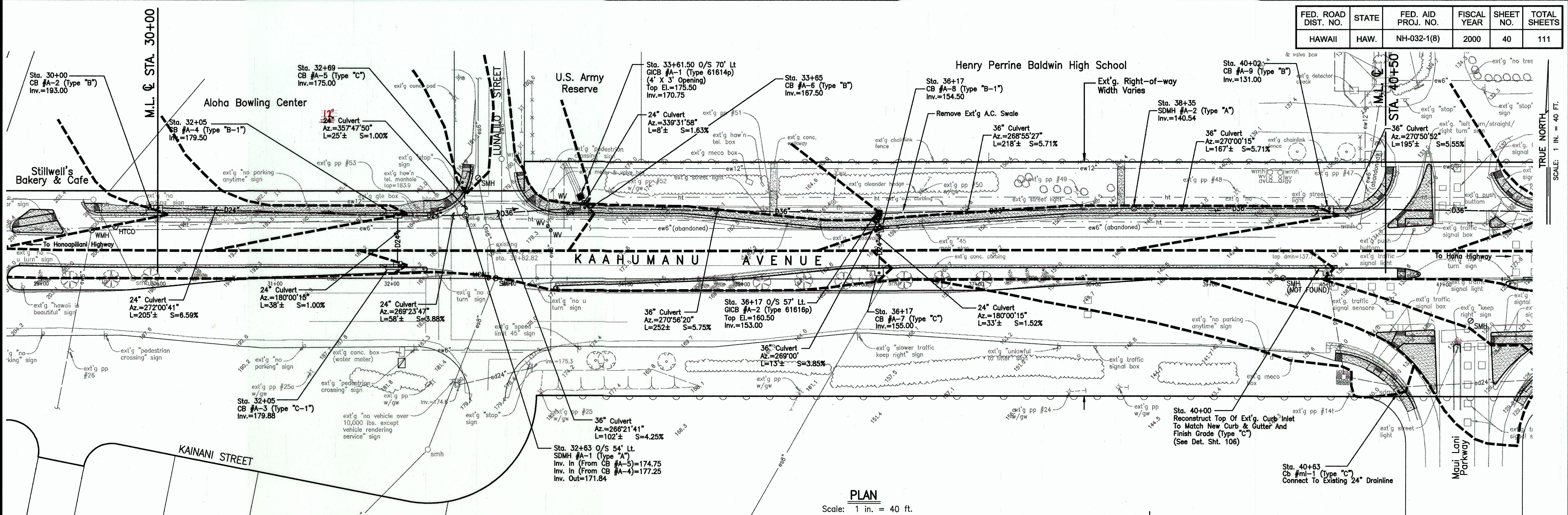
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)

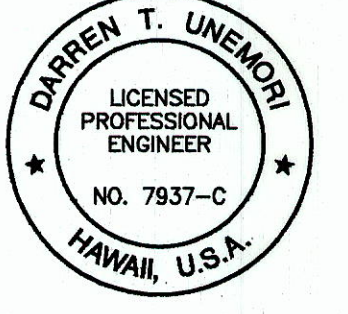
SCALE: AS NOTED

SHEET No. 2 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	40	111



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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY DRAINAGE PLAN

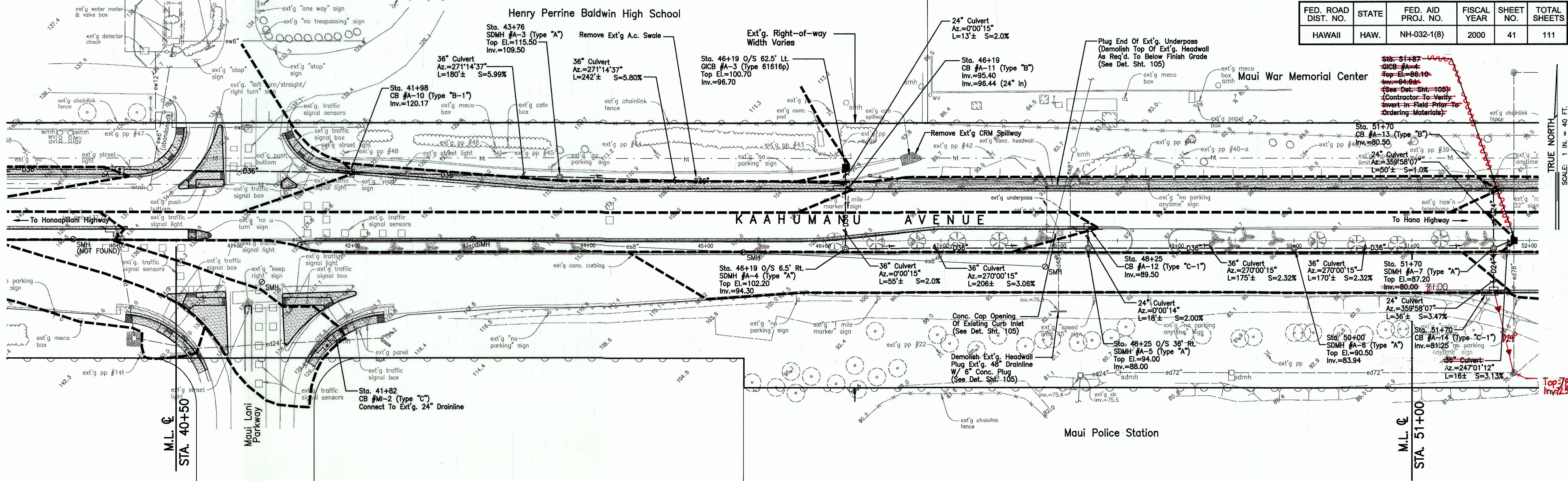
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED

SHEET No. 3 OF 13 SHEETS

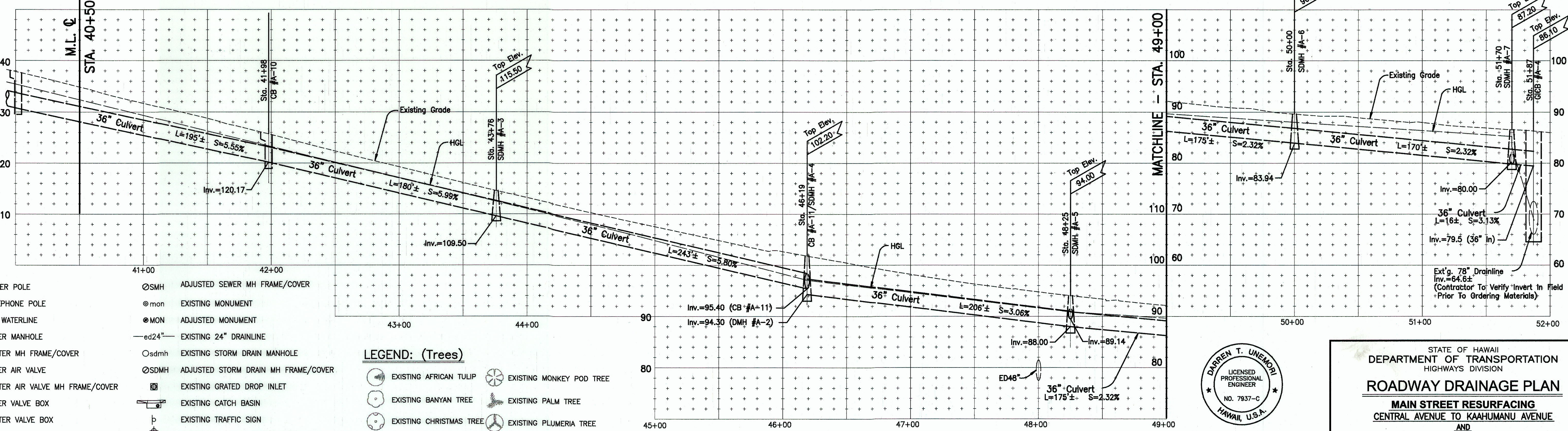
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	41	111



PLAN

Scale: 1 in. = 40 ft.



PROFILE - DRAINLINE

Scale: Horiz. 1" = 40'
Vert. 1" = 10'

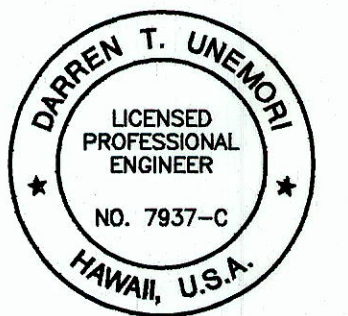
SURVEY PLOTTED BY	DATE
DESIGNED BY	DATE
NOTED BY	DATE
CHECKED BY	DATE

LEGEND:

- EXISTING POWER POLE
- EXISTING TELEPHONE POLE
- EXISTING 12" WATERLINE
- EXISTING WATER MANHOLE
- ADJUSTED WATER MH FRAME/COVER
- EXISTING WATER AIR VALVE
- ADJUSTED WATER AIR VALVE MH FRAME/COVER
- EXISTING WATER VALVE BOX
- ADJUSTED WATER VALVE BOX
- EXISTING WATER METER
- ADJUSTED WATER METER
- EXISTING FIRE HYDRANT
- EXISTING 8" SEWERLINE
- EXISTING SEWER MANHOLE
- ADJUSTED SEWER MH FRAME/COVER
- EXISTING MONUMENT
- ADJUSTED MONUMENT
- EXISTING 24" DRAINLINE
- EXISTING STORM DRAIN MANHOLE
- ADJUSTED STORM DRAIN MH FRAME/COVER
- EXISTING GRATED DROP INLET
- EXISTING CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING HIGHWAY LIGHTING STANDARD
- EXISTING METAL GUARDRAIL
- NEW SINGING METAL GUARDRAIL
- EXISTING FENCE
- TYPE II OBJECT MARKER

LEGEND: (Trees)

- EXISTING AFRICAN TULIP
- EXISTING BANYAN TREE
- EXISTING CHRISTMAS TREE
- EXISTING COCONUT TREE
- EXISTING KIWIEE TREE
- EXISTING KUKUI TREE
- EXISTING MONKEY POD TREE
- EXISTING PALM TREE
- EXISTING PLUMERIA TREE
- EXISTING POINCIANA TREE
- EXISTING SHOWER TREE
- EXISTING TREE (UNKNOWN)



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY DRAINAGE PLAN

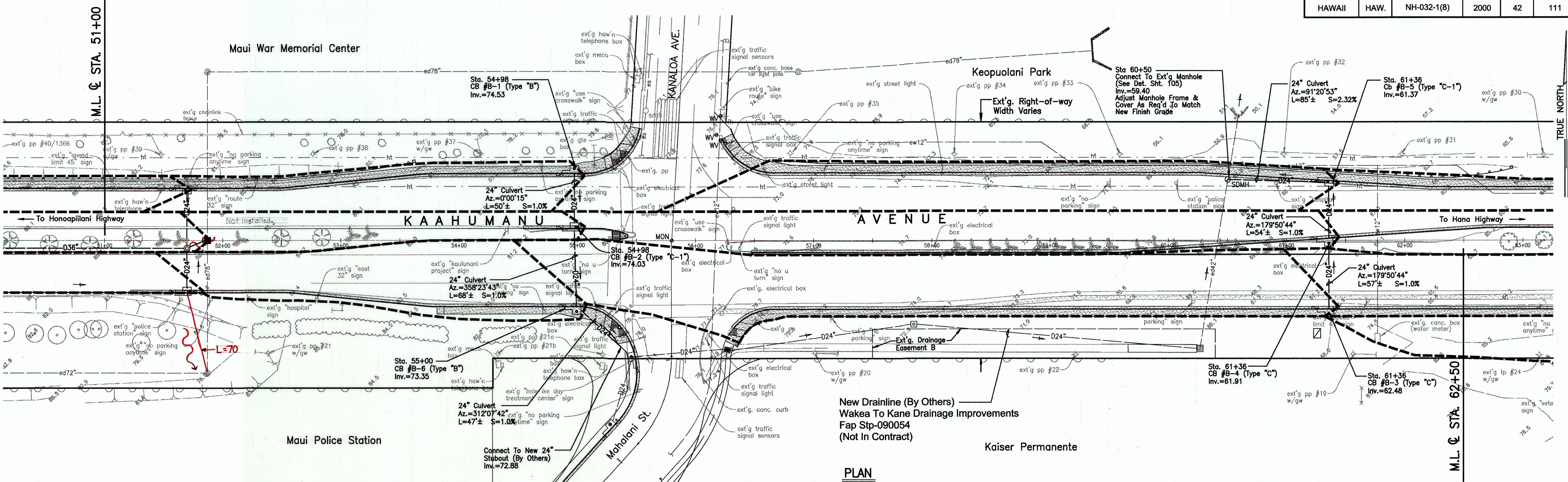
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED

SHEET No. 4 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	42	111



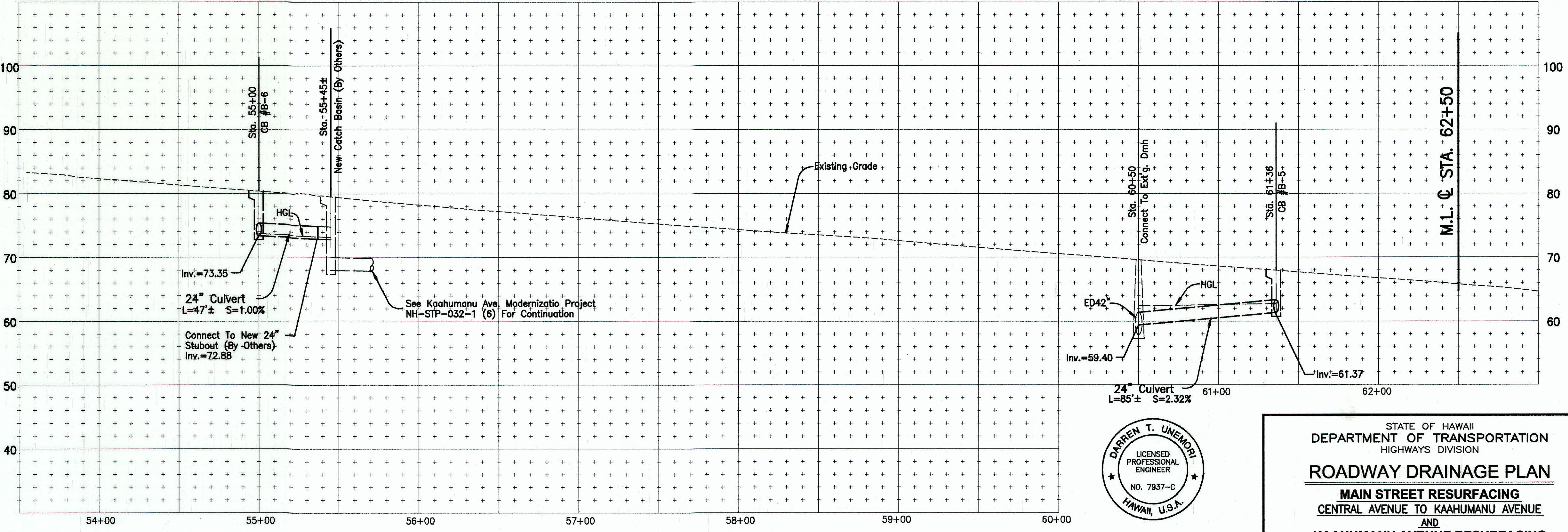
PLAN
Scale: 1 in. = 40 ft.

LEGEND:

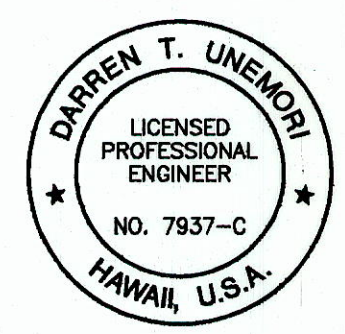
- | | |
|---|---|
| ✧ Existing Power Pole | ⊙SMH Adjusted Sewer Mh Frame/cover |
| ✧ Existing Telephone Pole | ⊙mon Existing Monument |
| —ew12"— Existing 12" Waterline | ⊙MON Adjusted Monument |
| ○wmh Existing Water Manhole | —ed24"— Existing 24" Drainline |
| ⊙WMH Adjusted Water Mh Frame/cover | ○sdmh Existing Storm Drain Manhole |
| ○av Existing Water Air Valve | ⊙SDMH Adjusted Storm Drain Mh Frame/cover |
| ⊙AV Adjusted Water Air Valve Mh Frame/cover | ⊙ Existing Grated Drop Inlet |
| ○wv Existing Water Valve Box | ⊙ Existing Catch Basin |
| ⊙WV Adjusted Water Valve Box | ⊙ Existing Traffic Sign |
| ⊙wm Existing Water Meter | ⊙ Existing Highway Lighting Standard |
| ⊙WM Adjusted Water Meter | ⊙ Existing Metal Guardrail |
| ✧ Existing Fire Hydrant | ⊙ New Single Metal Guardrail |
| —es8"— Existing 8" Sewerline | ✕✕✕ Existing Fence |
| ○smh Existing Sewer Manhole | ○ Type II Object Marker |

LEGEND: (Trees)

- | | |
|---------------------------|----------------------------|
| ⊙ Existing African Tulip | ⊙ Existing Monkey Pod Tree |
| ⊙ Existing Banyan Tree | ⊙ Existing Palm Tree |
| ⊙ Existing Christmas Tree | ⊙ Existing Plumeria Tree |
| ⊙ Existing Coconut Tree | ⊙ Existing Poinciana Tree |
| ⊙ Existing Kiawe Tree | ⊙ Existing Shower Tree |
| ⊙ Existing Kukui Tree | ⊙ Existing Tree (Unknown) |



PROFILE - DRAINAGE
Scale: Horiz. 1" = 40'
Vert. 1" = 10'

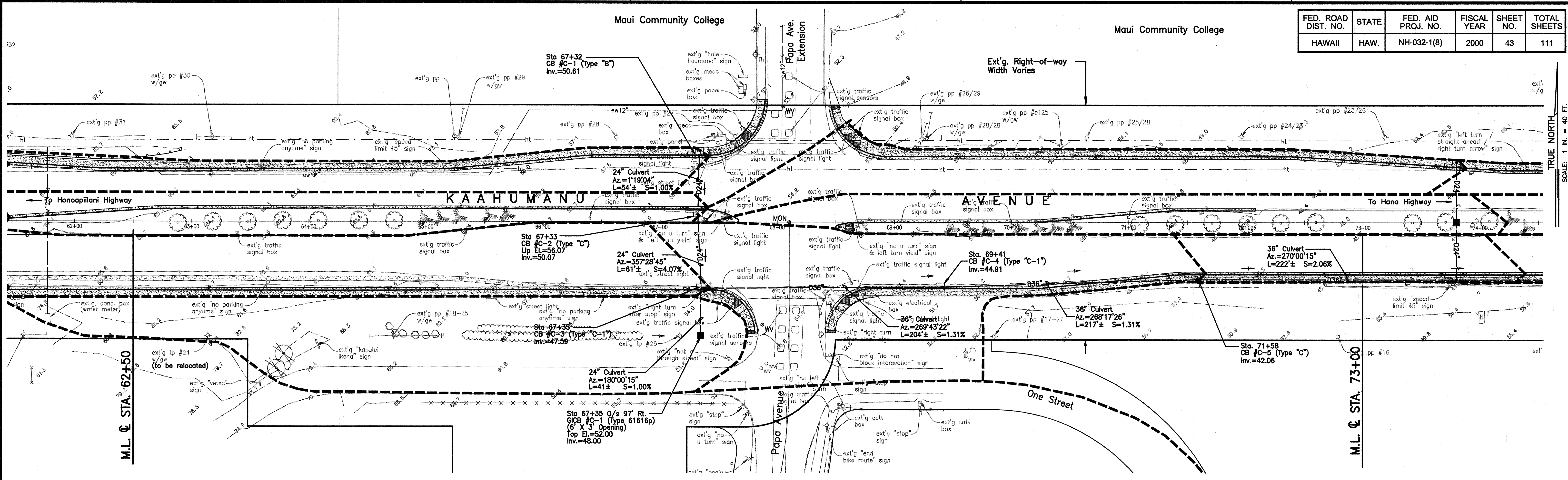


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED
SHEET No. 5 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	43	111



LEGEND:

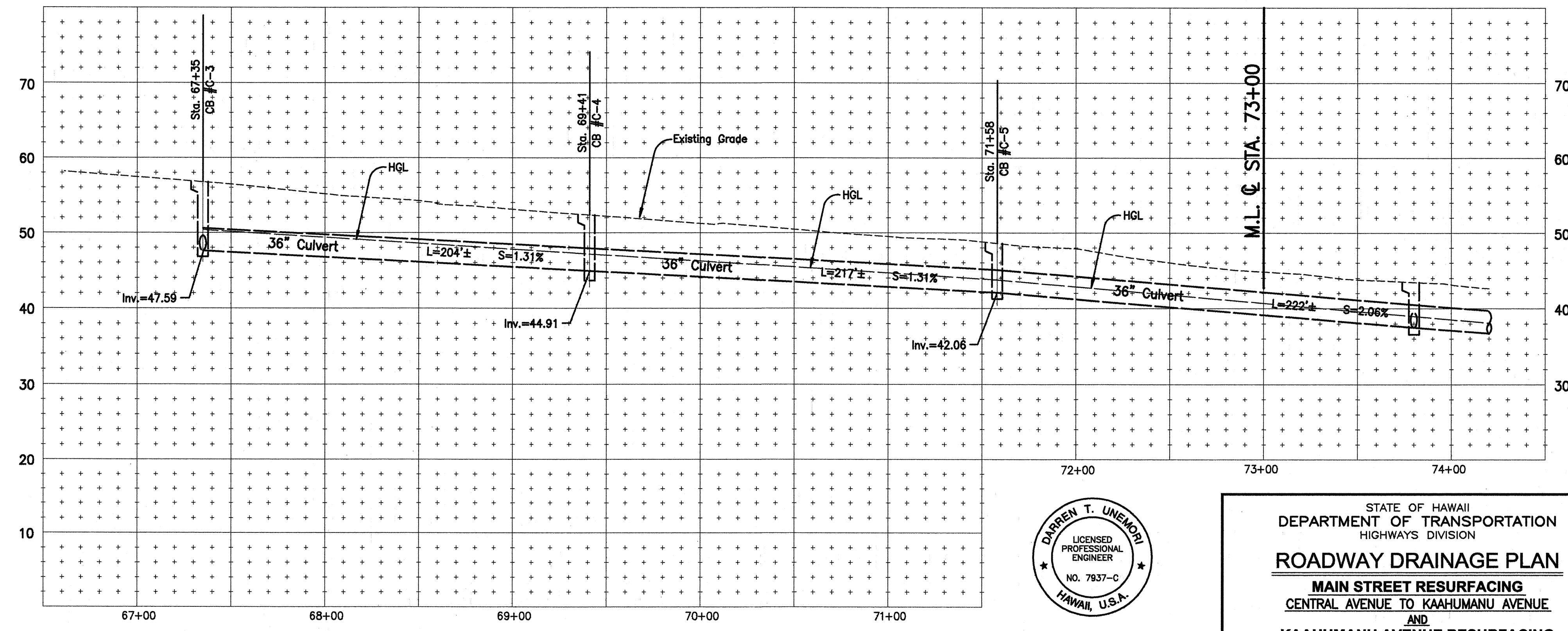
- | | |
|---|---|
| ◇ Existing Power Pole | ⊙SMH Adjusted Sewer Mh Frame/cover |
| ◇ Existing Telephone Pole | ⊙mon Existing Monument |
| -ew12"- Existing 12" Waterline | ⊙MON Adjusted Monument |
| ○wmh Existing Water Manhole | -ed24"- Existing 24" Drainline |
| ⊙WMH Adjusted Water Mh Frame/cover | ○sdmh Existing Storm Drain Manhole |
| ○av Existing Water Air Valve | ⊙SDMH Adjusted Storm Drain Mh Frame/cover |
| ⊙AV Adjusted Water Air Valve Mh Frame/cover | ⊙ Existing Grated Drop Inlet |
| ○wv Existing Water Valve Box | ⊙ Existing Catch Basin |
| ⊙WV Adjusted Water Valve Box | ⊙ Existing Traffic Sign |
| □wm Existing Water Meter | ⊙ Existing Highway Lighting Standard |
| ⊙WM Adjusted Water Meter | ⊙ Existing Metal Guardrail |
| ⊙ Existing Fire Hydrant | ⊙ New Single Metal Guardrail |
| -es8"- Existing 8" Sewerline | ⊙ Existing Fence |
| ○smh Existing Sewer Manhole | ○ Type II Object Marker |

LEGEND: (Trees)

- | | |
|---------------------------|----------------------------|
| ⊙ Existing African Tulip | ⊙ Existing Monkey Pod Tree |
| ⊙ Existing Banyan Tree | ⊙ Existing Palm Tree |
| ⊙ Existing Christmas Tree | ⊙ Existing Plumeria Tree |
| ⊙ Existing Coconut Tree | ⊙ Existing Poinciana Tree |
| ⊙ Existing Kiawe Tree | ⊙ Existing Shower Tree |
| ⊙ Existing Kukui Tree | ⊙ Existing Tree (Unknown) |

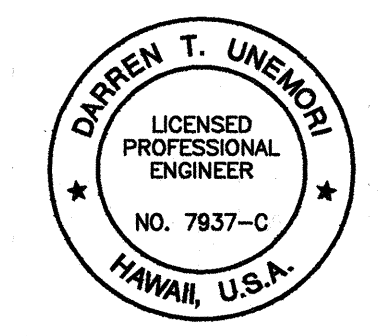
PLAN

Scale: 1 in. = 40 ft.



PROFILE - DRAINLINE

Scale: Horiz. 1" = 40'
Vert. 1" = 10'



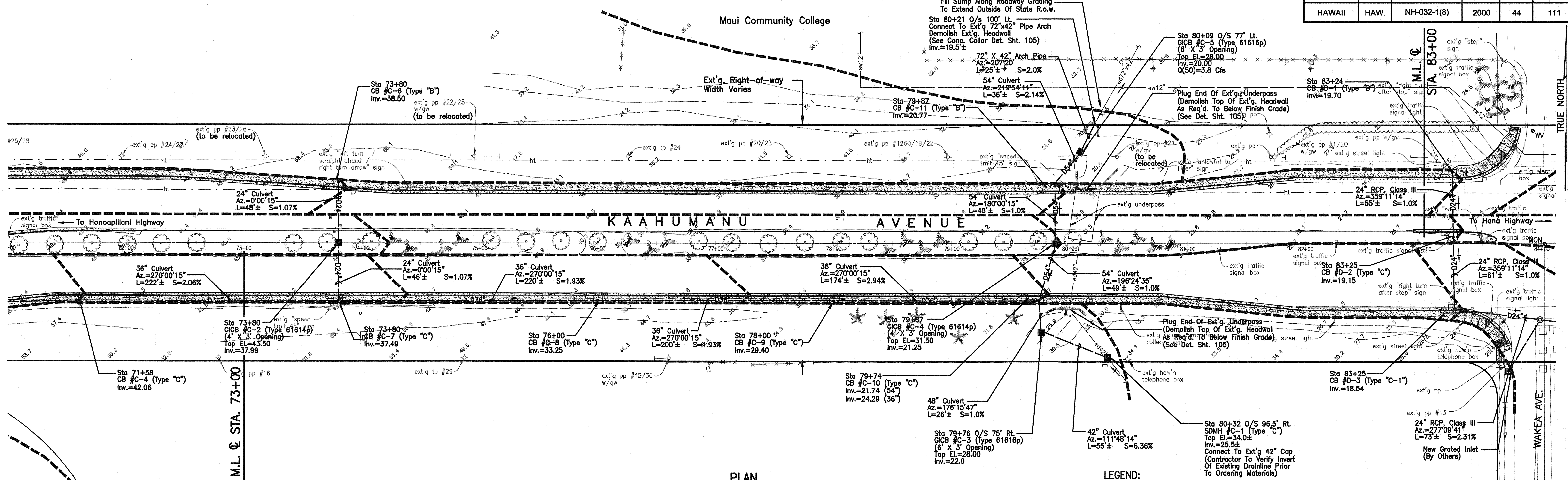
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBRON AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED

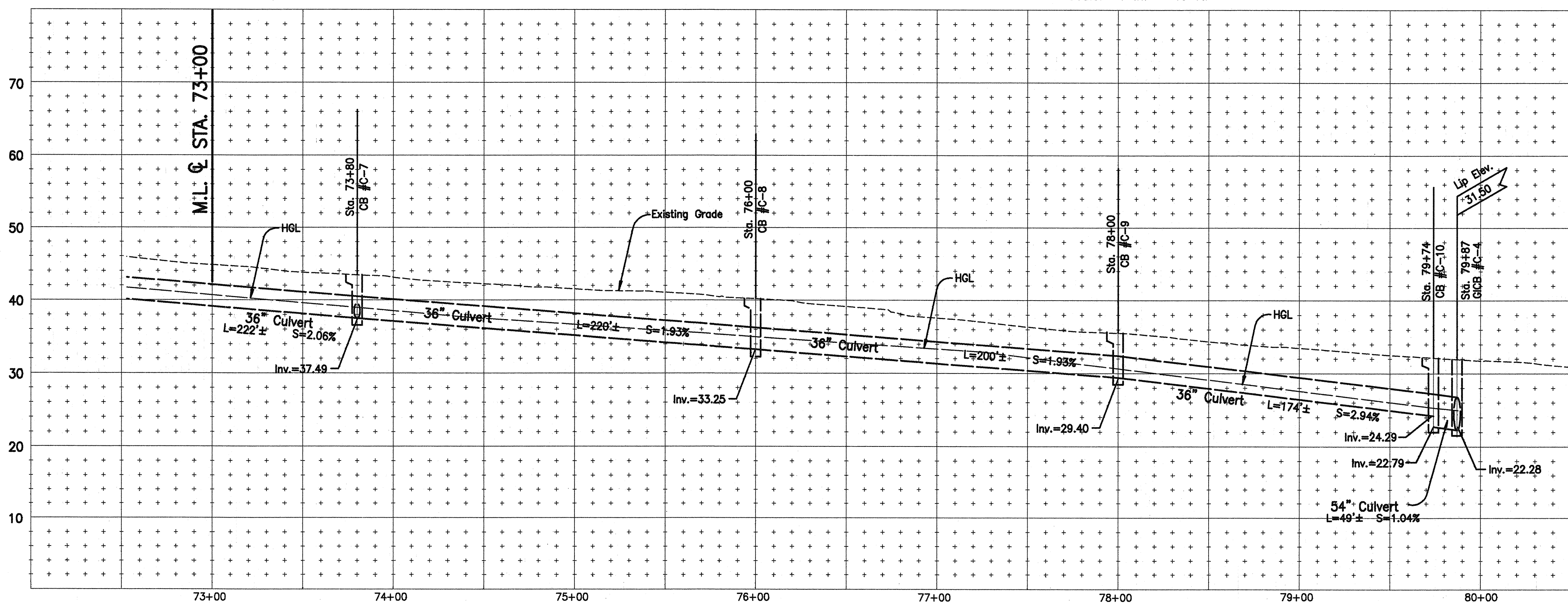
SHEET No. 6 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	44	111



PLAN

Scale: 1 in. = 40 ft.



PROFILE - DRAINLINE

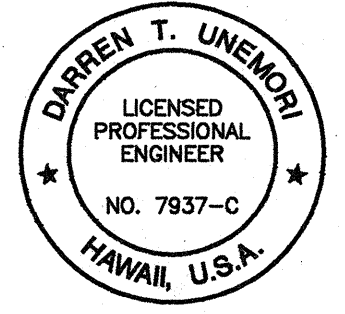
Scale: Horiz. 1" = 40'
Vert. 1" = 10'

LEGEND:

- EXISTING POWER POLE
- EXISTING TELEPHONE POLE
- EXISTING 12" WATERLINE
- EXISTING WATER MANHOLE
- ADJUSTED WATER MH FRAME/COVER
- EXISTING WATER AIR VALVE
- ADJUSTED WATER AIR VALVE MH FRAME/COVER
- EXISTING WATER VALVE BOX
- ADJUSTED WATER VALVE BOX
- EXISTING WATER METER
- ADJUSTED WATER METER
- EXISTING FIRE HYDRANT
- EXISTING 8" SEWERLINE
- EXISTING SEWER MANHOLE
- ADJUSTED SEWER MH FRAME/COVER
- EXISTING MONUMENT
- ADJUSTED MONUMENT
- EXISTING 24" DRAINLINE
- EXISTING STORM DRAIN MANHOLE
- ADJUSTED STORM DRAIN MH FRAME/COVER
- EXISTING GRATED DROP INLET
- EXISTING CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING HIGHWAY LIGHTING STANDARD
- EXISTING METAL GUARDRAIL
- NEW SINGLE METAL GUARDRAIL
- EXISTING FENCE
- TYPE II OBJECT MARKER

LEGEND: (Trees)

- EXISTING AFRICAN TULIP
- EXISTING BANYAN TREE
- EXISTING CHRISTMAS TREE
- EXISTING COCONUT TREE
- EXISTING KIWEE TREE
- EXISTING KUKUI TREE
- EXISTING MONKEY POD TREE
- EXISTING PALM TREE
- EXISTING PLUMERIA TREE
- EXISTING POINCIANA TREE
- EXISTING SHOWER TREE
- EXISTING TREE (UNKNOWN)



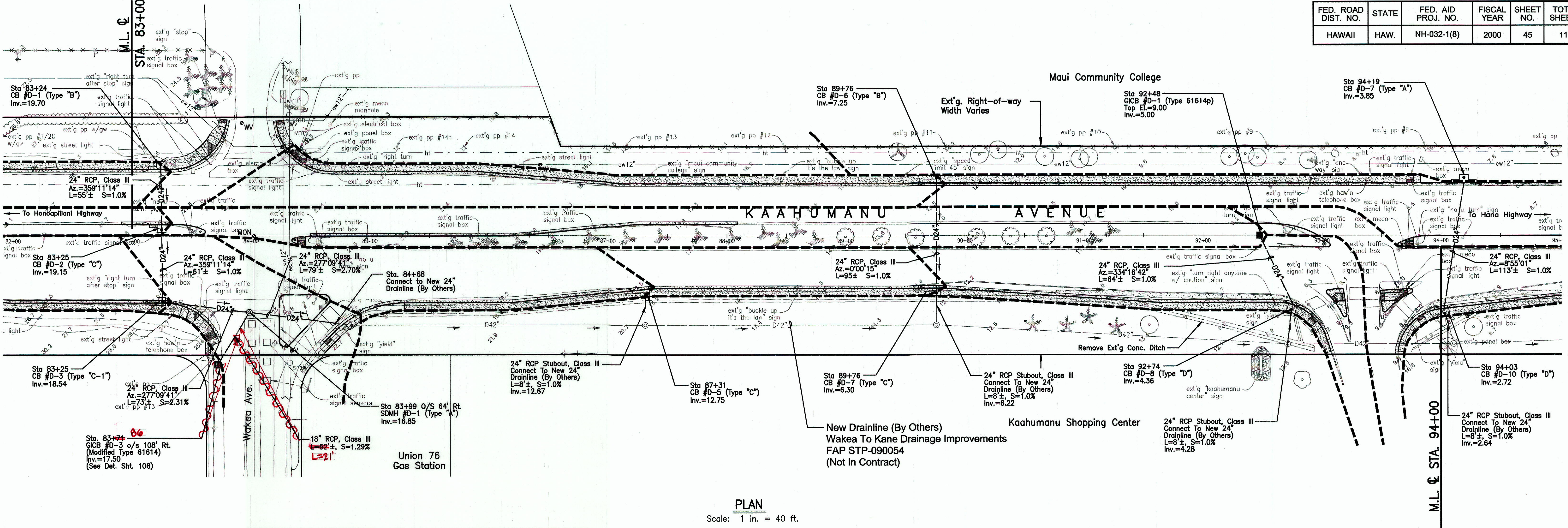
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Signature: [Signature] 4/18/00

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)
SCALE: AS NOTED
SHEET No. 7 OF 13 SHEETS

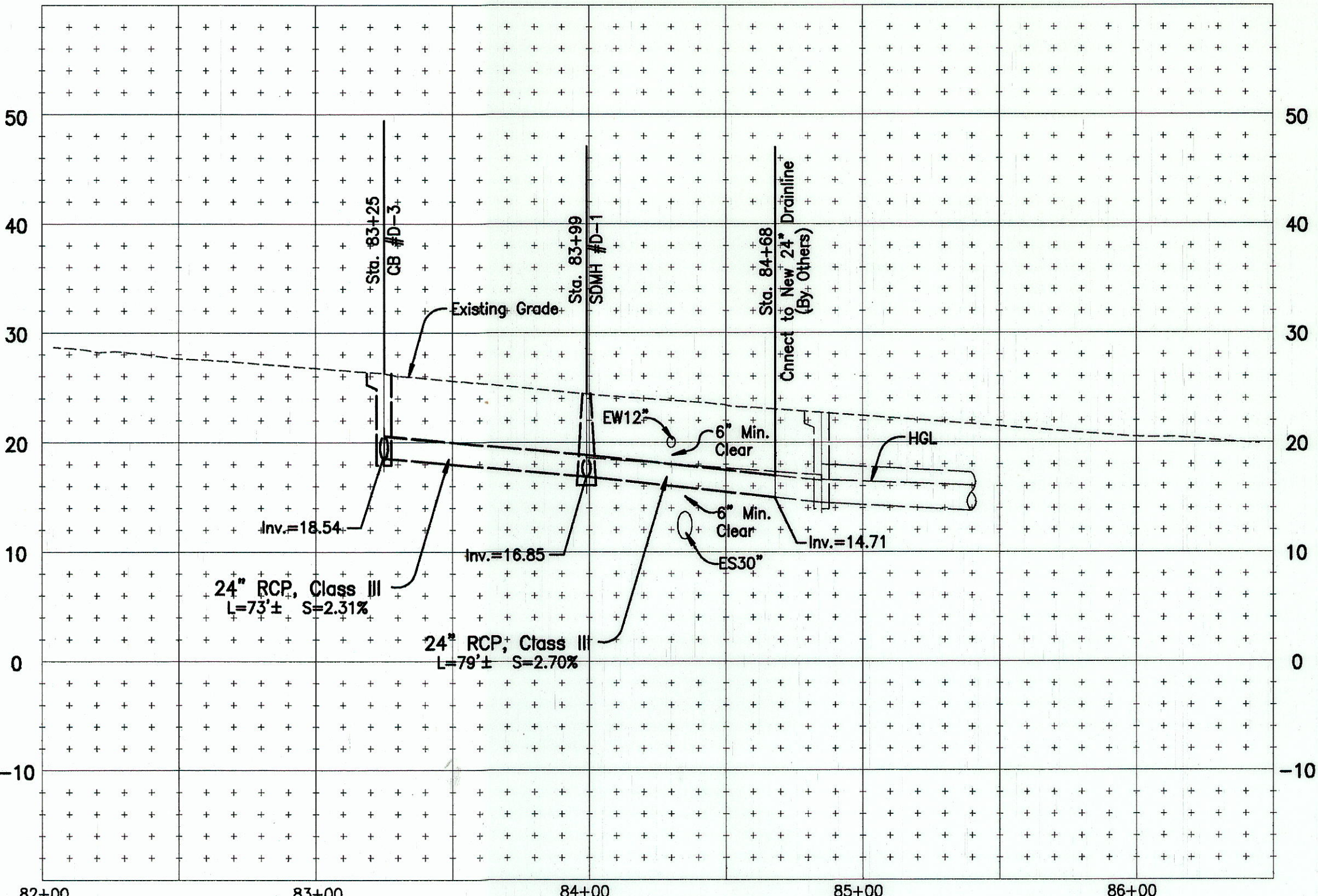
DATE	DATE	DATE	DATE	DATE
SYNOPSIS PLOTTED BY	SYNOPSIS PLOTTED BY	SYNOPSIS PLOTTED BY	SYNOPSIS PLOTTED BY	SYNOPSIS PLOTTED BY
DATE	DATE	DATE	DATE	DATE
TRACED BY	TRACED BY	TRACED BY	TRACED BY	TRACED BY
DATE	DATE	DATE	DATE	DATE
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
DATE	DATE	DATE	DATE	DATE
QUANTITIES BY	QUANTITIES BY	QUANTITIES BY	QUANTITIES BY	QUANTITIES BY
DATE	DATE	DATE	DATE	DATE
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE	DATE	DATE

98001/98049/comp/hwy/rd-dm00s.dwg

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	45	111



PLAN
Scale: 1 in. = 40 ft.



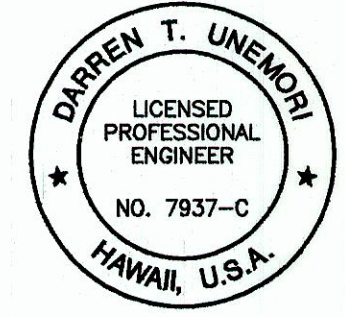
PROFILE - DRAINLINE
Scale: Horiz. 1" = 40'
Vert. 1" = 10'

LEGEND:

- EXISTING POWER POLE
- EXISTING TELEPHONE POLE
- EXISTING 12" WATERLINE
- EXISTING WATER MANHOLE
- ADJUSTED WATER MH FRAME/COVER
- EXISTING WATER AIR VALVE
- ADJUSTED WATER AIR VALVE MH FRAME/COVER
- EXISTING WATER VALVE BOX
- ADJUSTED WATER VALVE BOX
- EXISTING WATER METER
- ADJUSTED WATER METER
- EXISTING FIRE HYDRANT
- EXISTING 8" SEWERLINE
- EXISTING SEWER MANHOLE
- ADJUSTED SEWER MH FRAME/COVER
- EXISTING MONUMENT
- ADJUSTED MONUMENT
- EXISTING 24" DRAINLINE
- EXISTING STORM DRAIN MANHOLE
- ADJUSTED STORM DRAIN MH FRAME/COVER
- EXISTING GRATED DROP INLET
- EXISTING CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING HIGHWAY LIGHTING STANDARD
- EXISTING METAL GUARDRAIL
- NEW SINGLE METAL GUARDRAIL
- EXISTING FENCE
- TYPE II OBJECT MARKER

LEGEND: (Trees)

- EXISTING AFRICAN TULIP
- EXISTING BANYAN TREE
- EXISTING CHRISTMAS TREE
- EXISTING COCONUT TREE
- EXISTING KIWEE TREE
- EXISTING KUKUI TREE
- EXISTING MONKEY POD TREE
- EXISTING PALM TREE
- EXISTING PLUMERIA TREE
- EXISTING POINCIANA TREE
- EXISTING SHOWER TREE
- EXISTING TREE (UNKNOWN)



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
[Signature]
Signature

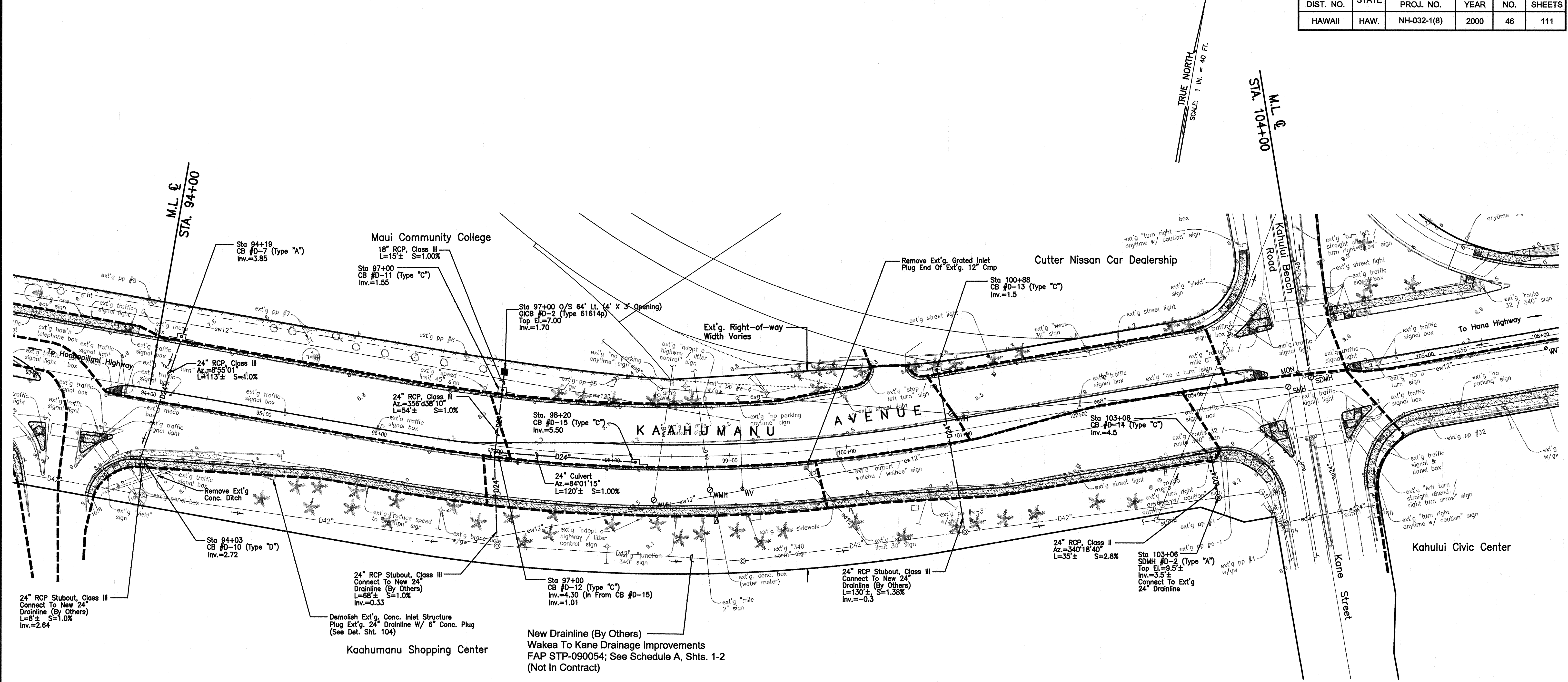
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBRON AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED
SHEET No. 8 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	46	111

DATE	DATE	DATE	DATE	DATE	DATE
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE	DATE	DATE	DATE

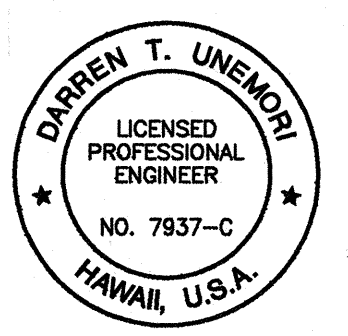


LEGEND:

- Existing Sewer Manhole
- Existing Drain Manhole
- Existing Water Manhole
- Existing Catch Basin
- Existing Fire Hydrant
- Waterline W/size
- Sewerline W/size
- Drainline W/size
- Drainage Areas
- Existing Clean-out-to-grade
- Existing Waterline W/size
- Existing Sewerline W/size
- Existing Drainline W/size
- Existing Power Pole W/guy Wire

LEGEND: (Trees)

- Existing African Tulip
- Existing Banyan Tree
- Existing Christmas Tree
- Existing Coconut Tree
- Existing Kiawe Tree
- Existing Kukui Tree
- Existing Monkey Pod Tree
- Existing Palm Tree
- Existing Plumeria Tree
- Existing Poinciana Tree
- Existing Shower Tree
- Existing Tree (Unknown)



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

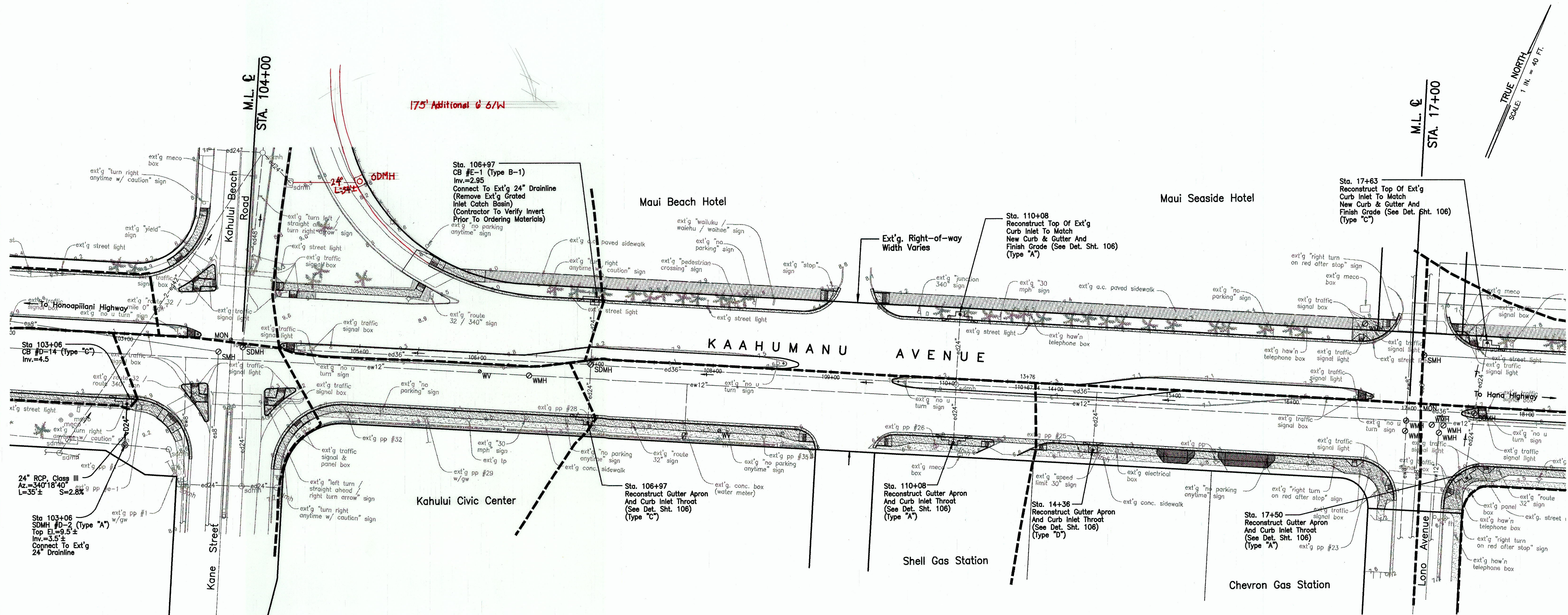
ROADWAY DRAINAGE PLAN

MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED

SHEET No. 9 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	47	111



LEGEND:

- | | | | |
|-------|------------------|-------|--------------------------------|
| ⊙ | Sewer Manhole | ⊙ | Existing Sewer Manhole |
| ⊙ | Drain Manhole | ⊙ | Existing Drain Manhole |
| ⊙ | Water Manhole | ⊙ | Existing Water Manhole |
| ⊙ | Catch Basin | ⊙ | Existing Catch Basin |
| ⊙ | Fire Hydrant | ⊙ | Existing Fire Hydrant |
| —w8" | Waterline W/size | —w8" | Existing Water Valve |
| —s8" | Sewerline W/size | —s8" | Existing Clean-out-to-grade |
| —d24" | Drainline W/size | —w8" | Existing Waterline W/size |
| --- | Drainage Areas | —s8" | Existing Sewerline W/size |
| | | —d24" | Existing Drainline W/size |
| | | PP | Existing Power Pole W/guy wire |

LEGEND: (Trees)

- | | | | |
|---|-------------------------|---|--------------------------|
| ⊙ | Existing African Tulip | ⊙ | Existing Monkey Pod Tree |
| ⊙ | Existing Banyan Tree | ⊙ | Existing Palm Tree |
| ⊙ | Existing Christmas Tree | ⊙ | Existing Plumeria Tree |
| ⊙ | Existing Coconut Tree | ⊙ | Existing Poinciana Tree |
| ⊙ | Existing Kiawe Tree | ⊙ | Existing Shower Tree |
| ⊙ | Existing Kukui Tree | ⊙ | Existing Tree (Unknown) |



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY DRAINAGE PLAN

MAIN STREET RESURFACING
CENTRAL AVENUE TO KAHUMANU AVENUE
AND
KAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)

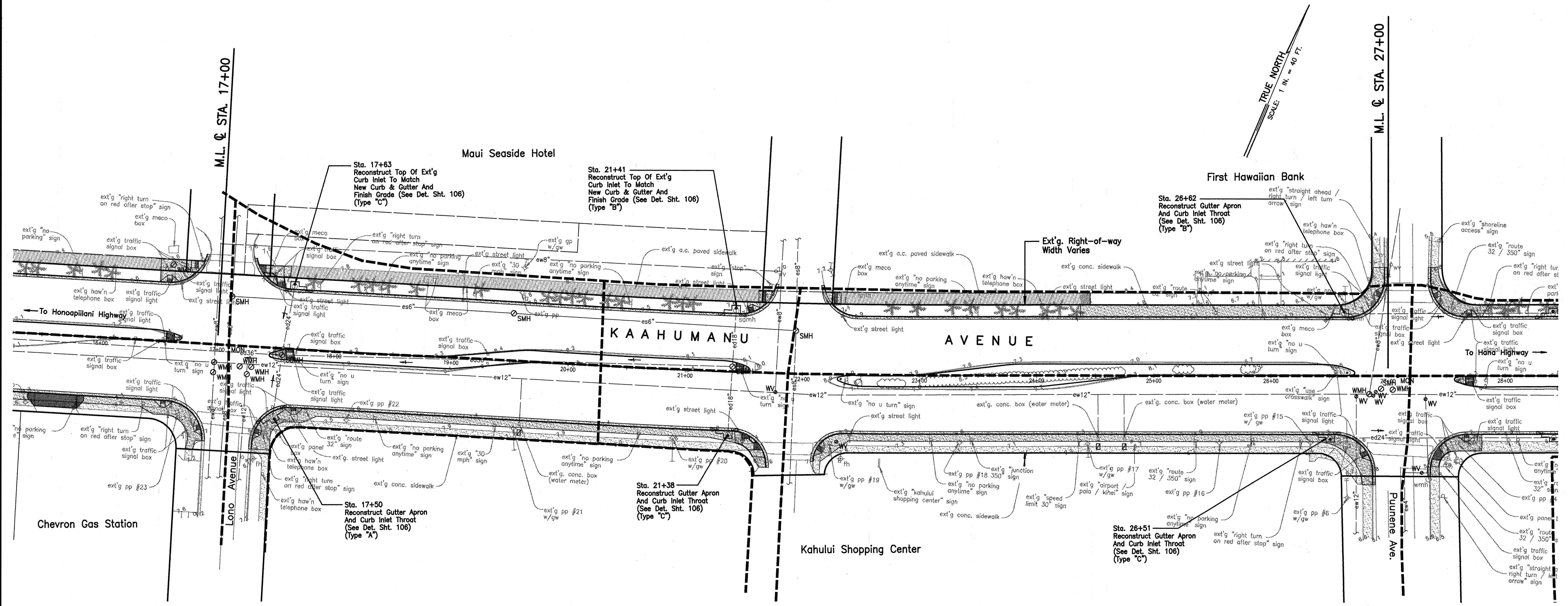
SCALE: AS NOTED

SHEET No. 10 OF 13 SHEETS

"AS-BUILT"

47

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	48	111



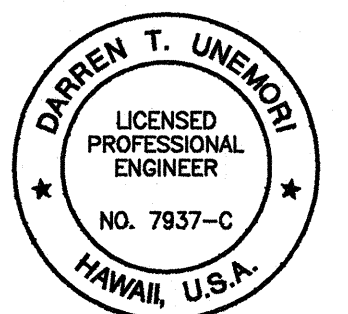
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE

LEGEND:

- EXISTING POWER POLE
- EXISTING TELEPHONE POLE
- EXISTING 12" WATERLINE
- EXISTING WATER MANHOLE
- ADJUSTED WATER MH FRAME/COVER
- EXISTING WATER AIR VALVE
- ADJUSTED WATER AIR VALVE MH FRAME/COVER
- EXISTING WATER VALVE BOX
- ADJUSTED WATER VALVE BOX
- EXISTING WATER METER
- ADJUSTED WATER METER
- EXISTING FIRE HYDRANT
- EXISTING 8" SEWERLINE
- EXISTING SEWER MANHOLE
- ADJUSTED SEWER MH FRAME/COVER
- EXISTING MONUMENT
- ADJUSTED MONUMENT
- EXISTING 24" DRAINLINE
- EXISTING STORM DRAIN MANHOLE
- ADJUSTED STORM DRAIN MH FRAME/COVER
- EXISTING GRATED DROP INLET
- EXISTING CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING HIGHWAY LIGHTING STANDARD
- EXISTING METAL GUARDRAIL
- NEW SINGLE METAL GUARDRAIL
- EXISTING FENCE
- TYPE II OBJECT MARKER

LEGEND: (Trees)

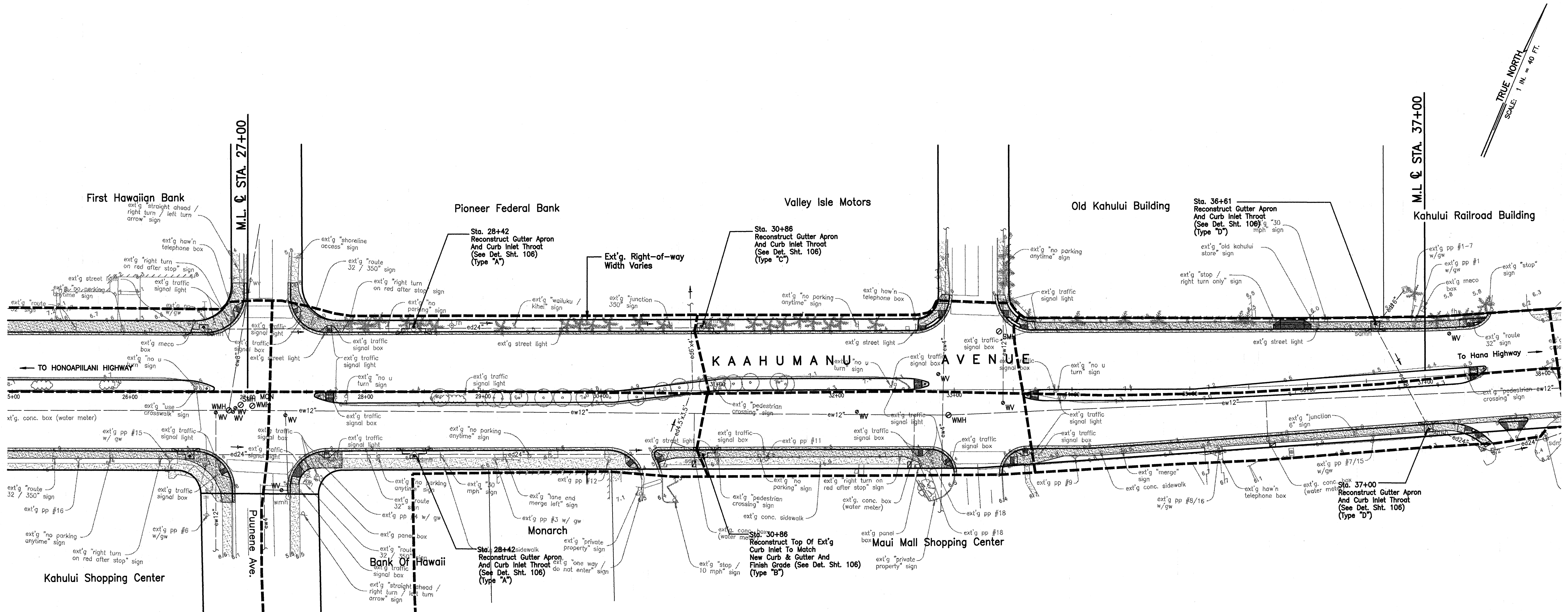
- EXISTING AFRICAN TULIP
- EXISTING BANYAN TREE
- EXISTING CHRISTMAS TREE
- EXISTING COCONUT TREE
- EXISTING KIWEE TREE
- EXISTING KUKUI TREE
- EXISTING MONKEY POD TREE
- EXISTING PALM TREE
- EXISTING PLUMERIA TREE
- EXISTING POINCIANA TREE
- EXISTING SHOWER TREE
- EXISTING TREE (UNKNOWN)



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBSON AVENUE
Fed. Aid Project No. NH-032-1(8)
SCALE: AS NOTED
SHEET No. 11 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	49	111



TRUE NORTH
SCALE: 1" = 40 FT.

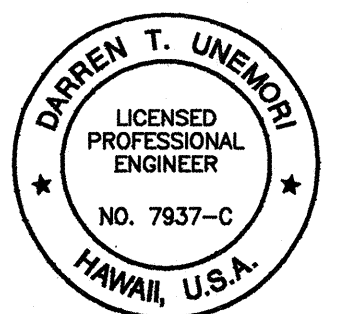
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE

LEGEND:

- EXISTING POWER POLE
- EXISTING TELEPHONE POLE
- EXISTING 12" WATERLINE
- EXISTING 24" DRAINLINE
- EXISTING WATER MANHOLE
- EXISTING 24" DRAINLINE
- ADJUSTED WATER MH FRAME/COVER
- EXISTING WATER AIR VALVE
- ADJUSTED WATER AIR VALVE MH FRAME/COVER
- EXISTING WATER VALVE BOX
- ADJUSTED WATER VALVE BOX
- EXISTING WATER METER
- ADJUSTED WATER METER
- EXISTING FIRE HYDRANT
- EXISTING 8" SEWERLINE
- EXISTING SEWER MANHOLE
- ADJUSTED SEWER MH FRAME/COVER
- EXISTING MONUMENT
- ADJUSTED MONUMENT
- EXISTING STORM DRAIN MANHOLE
- ADJUSTED STORM DRAIN MH FRAME/COVER
- EXISTING GRATED DROP INLET
- EXISTING CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING HIGHWAY LIGHTING STANDARD
- EXISTING METAL GUARDRAIL
- NEW SINGLE METAL GUARDRAIL
- EXISTING FENCE
- TYPE II OBJECT MARKER

LEGEND: (Trees)

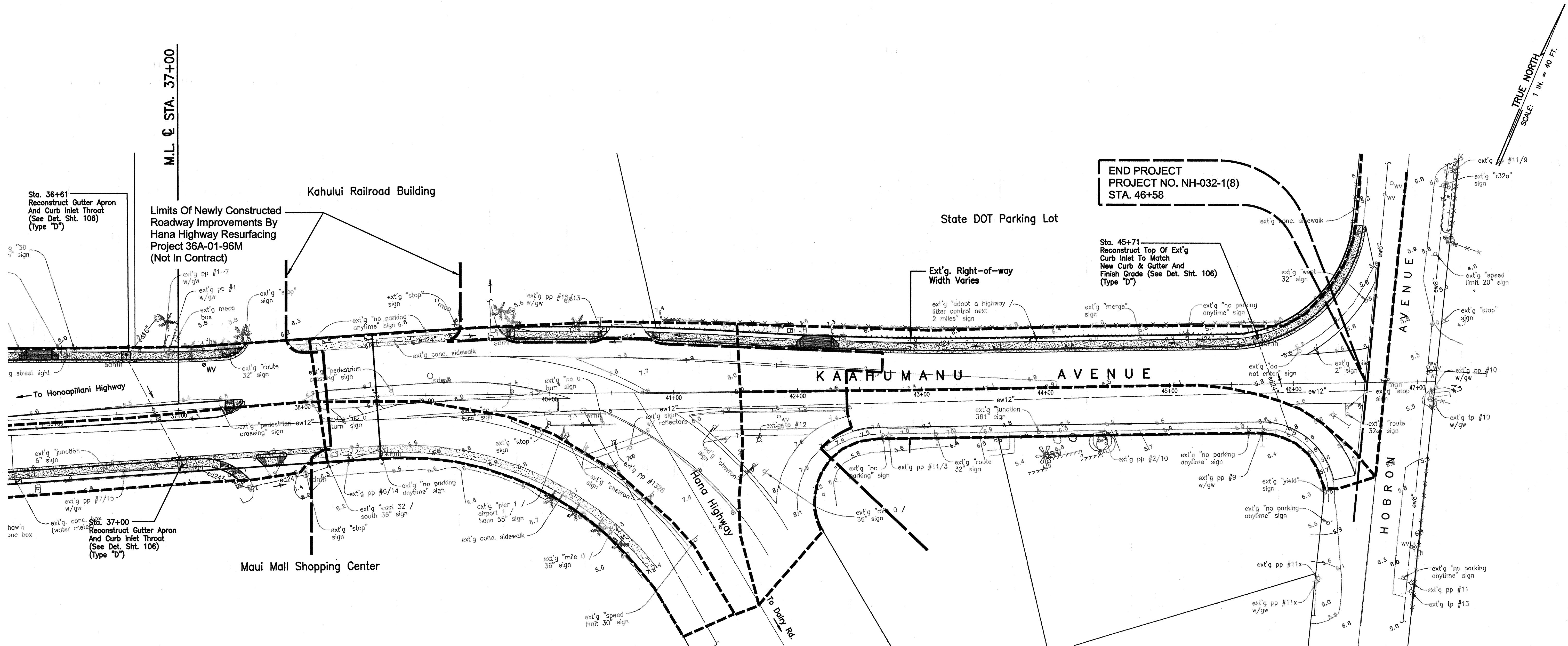
- EXISTING AFRICAN TULIP
- EXISTING BANYAN TREE
- EXISTING CHRISTMAS TREE
- EXISTING COCONUT TREE
- EXISTING KIWAE TREE
- EXISTING KUKUI TREE
- EXISTING MONKEY POD TREE
- EXISTING PALM TREE
- EXISTING PLUMERIA TREE
- EXISTING POINCIANA TREE
- EXISTING SHOWER TREE
- EXISTING TREE (UNKNOWN)



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBRON AVENUE
Fed. Aid Project No. NH-032-1(8)
SCALE: AS NOTED
SHEET No. 12 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(8)	2000	50	111



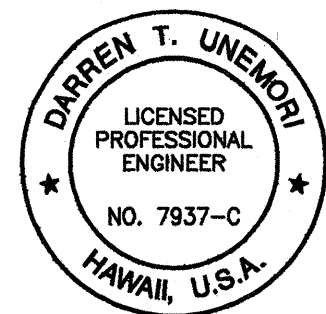
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE

LEGEND:

- | | | | |
|---------|---|---------|-------------------------------------|
| ✧ | EXISTING POWER POLE | ⊙SMH | ADJUSTED SEWER MH FRAME/COVER |
| ✧ | EXISTING TELEPHONE POLE | ⊙mon | EXISTING MONUMENT |
| —ew12"— | EXISTING 12" WATERLINE | ⊙MON | ADJUSTED MONUMENT |
| ○wmh | EXISTING WATER MANHOLE | —ed24"— | EXISTING 24" DRAINLINE |
| ⊙WMH | ADJUSTED WATER MH FRAME/COVER | ○sdmh | EXISTING STORM DRAIN MANHOLE |
| ○av | EXISTING WATER AIR VALVE | ⊙SDMH | ADJUSTED STORM DRAIN MH FRAME/COVER |
| ⊙AV | ADJUSTED WATER AIR VALVE MH FRAME/COVER | ⊠ | EXISTING GRATED DROP INLET |
| ○wv | EXISTING WATER VALVE BOX | ⊠ | EXISTING CATCH BASIN |
| ⊙WV | ADJUSTED WATER VALVE BOX | ⊠ | EXISTING TRAFFIC SIGN |
| □wm | EXISTING WATER METER | ⊠ | EXISTING HIGHWAY LIGHTING STANDARD |
| ⊠WM | ADJUSTED WATER METER | ⊠ | EXISTING METAL GUARDRAIL |
| ✧ | EXISTING FIRE HYDRANT | ⊠ | NEW SINGLE METAL GUARDRAIL |
| —es8"— | EXISTING 8" SEWERLINE | —x—x—x— | EXISTING FENCE |
| ○smh | EXISTING SEWER MANHOLE | ○ | TYPE II OBJECT MARKER |

LEGEND: (Trees)

- | | | | |
|---|-------------------------|---|--------------------------|
| ✧ | EXISTING AFRICAN TULIP | ✧ | EXISTING MONKEY POD TREE |
| ✧ | EXISTING BANYAN TREE | ✧ | EXISTING PALM TREE |
| ✧ | EXISTING CHRISTMAS TREE | ✧ | EXISTING PLUMERIA TREE |
| ✧ | EXISTING COCONUT TREE | ✧ | EXISTING POINCIANA TREE |
| ✧ | EXISTING KIWEE TREE | ✧ | EXISTING SHOWER TREE |
| ✧ | EXISTING KUKUI TREE | ✧ | EXISTING TREE (UNKNOWN) |



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DRAINAGE PLAN
MAIN STREET RESURFACING
CENTRAL AVENUE TO KAAHUMANU AVENUE
AND
KAAHUMANU AVENUE RESURFACING
MAIN STREET TO HOBROH AVENUE
Fed. Aid Project No. NH-032-1(8)

SCALE: AS NOTED

SHEET No. 13 OF 13 SHEETS