


LEGEND



SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.


ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.


ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.




FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



OTHER FLOOD AREAS


Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.




OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain.

Areas in which flood hazards are undetermined, but possible.




COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS




OTHERWISE PROTECTED AREAS (OPAs)


CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.




1% annual chance floodplain boundary




0.2% annual chance floodplain boundary




Floodway boundary




Zone D boundary




CBRS and OPA boundary




Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.




Base Flood Elevation line and value; elevation in feet*




Base Flood Elevation value where uniform within zone; elevation in feet*




* Referenced to the National Geodetic Vertical Datum of 1929




Cross section line




Transect line




Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere




1000-meter Universal Transverse Mercator grid values, zone 4N




5000-Foot grid ticks: Hawaii State Plane coordinate system, zone 4 (FIPS ZONE 5104), Transverse Mercator projection




Bench mark (see explanation in Notes to Users section of this FIRM panel)




DX5510 x



● M15



MAP REPOSITORY



Kauai County, Dept. of Public Works, Engineering Division,
3021 Uma Street, Lihue, Hawaii 06700
(Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE
December 20, 1974

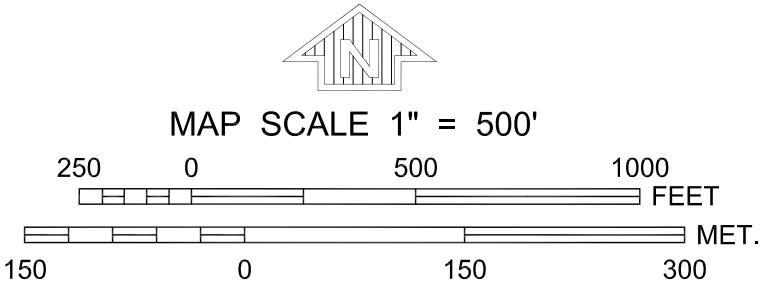
FLOOD HAZARD BOUNDARY MAP
REVISIONS
December 20, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE
November 4, 1981

FLOOD INSURANCE RATE MAP REVISIONS
March 4, 1987
September 30, 1995
October 18, 2002

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-438-6620.</

EXHIBIT
71



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0332G

FIRM

FLOOD INSURANCE RATE MAP

CITY AND COUNTY OF HONOLULU, HAWAII

PANEL 332 OF 395

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HONOLULU, CITY AND COUNTY OF	150001	0332	G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER 15003C0332G

MAP REVISED JANUARY 19, 2011

Federal Emergency Management Agency

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A

No Base Flood Elevations determined.

ZONE AE

Base Flood Elevations determined.

ZONE AH

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR

Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V

Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

ZONE X

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER FLOOD AREAS

OTHER AREAS

ZONE X

Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D

Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

W

S

87°07'45", 32°22'30"

76°00'N

600000 FT

DX5510_x

M1.5

MAP REPOSITORY

Kauai County, Dept. of Public Works, Engineering Division, 3021 Umi Street, Lihoe, Hawaii 96760 (Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE

December 20, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS

December 20, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE

November 4, 1981

FLOOD INSURANCE RATE MAP REVISIONS

March 4, 1987

September 30, 1995

October 10, 2002

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

FREeway MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREeway (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII
100-YEAR FLOOD ZONE MAP
KAHUAPAANI CCTV

EXHIBIT
72

FN: X:\96-46\96-46.27\NPDES\NPDES EXHIBITS\EX 73 - 100 YR FLOOD ZONE MAP - RADFORD WB VMS.DWG



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0331G & 0332G

FIRM

FLOOD INSURANCE RATE MAP

CITY AND COUNTY OF HONOLULU, HAWAII

PANEL 331 & 332 OF 395

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HONOLULU, CITY AND COUNTY OF	150001	0331 & 0332	G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER

15003C0331G & 15003C0332G

MAP REVISED

JANUARY 19, 2011

Federal Emergency Management Agency

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AS9, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently deteriorated. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE AS9	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X
Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D
Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% annual chance floodplain boundary
	0.2% annual chance floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
	Base Flood Elevation line and value; elevation in feet* (EL. 987)

* Referenced to the National Geodetic Vertical Datum of 1929

	Cross section line
	Transect line
	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
	1000-meter Universal Transverse Mercator grid values, zone 4N
	5000-Foot grid ticks: Hawaii State Plane coordinate system, zone 4 (HPS ZONE 5104), Transverse Mercator projection
	Bench mark (see explanation in Notes to Users section of this FIRM panel)
	River Mile

MAP REPOSITORY
Kauai County, Dept. of Public Works, Engineering Division,
3021 Umi Street, Lihoe, Hawaii 96760
(Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE
December 20, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS
December 20, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE
November 4, 1981

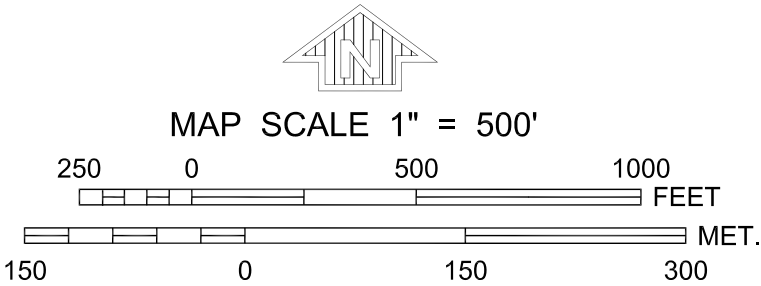
FLOOD INSURANCE RATE MAP REVISIONS
March 4, 1987
September 30, 1995
October 10, 2002

Freeway Management System, Interstate H-1, H-2 & Moanalua Freeway (H-201) Phase 1C, Part 2
Federal Aid Project No. IM-0300 (138)

AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

100-YEAR FLOOD ZONE MAP
RADFORD WB VMS

EXHIBIT
73



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0334G

FIRM
FLOOD INSURANCE RATE MAP
CITY AND COUNTY OF HONOLULU, HAWAII
PANEL 334 OF 395
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HONOLULU, CITY AND COUNTY OF	150001	0334	G

MAP NUMBER
15003C0334G
MAP REVISED
JANUARY 19, 2011
Federal Emergency Management Agency

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AS9, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently deteriorated. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE AS9	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Zone X: Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

Zone X: Areas determined to be outside the 0.2% annual chance floodplain.

Zone D: Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% annual chance floodplain boundary
	0.2% annual chance floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
	Base Flood Elevation line and value; elevation in feet* (EL 987)

* Referenced to the National Geodetic Vertical Datum of 1929

Cross section line

Transect line

87°07'45", 32°22'30"

76°00'N

600000 FT

DX5510_x

M1.5

1000-meter Universal Transverse Mercator grid values, zone 4N

5000-Foot grid ticks: Hawaii State Plane coordinate system, zone 4 (FIPS ZONE 5104), Transverse Mercator projection

Bench mark (see explanation in Notes to Users section of this FIRM panel)

River Mile

MAP REPOSITORY

Kauai County, Dept. of Public Works, Engineering Division,
3021 Umi Street, Lihoe, Hawaii 96760
(Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE

December 20, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS

December 20, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE

November 4, 1981

FLOOD INSURANCE RATE MAP REVISIONS

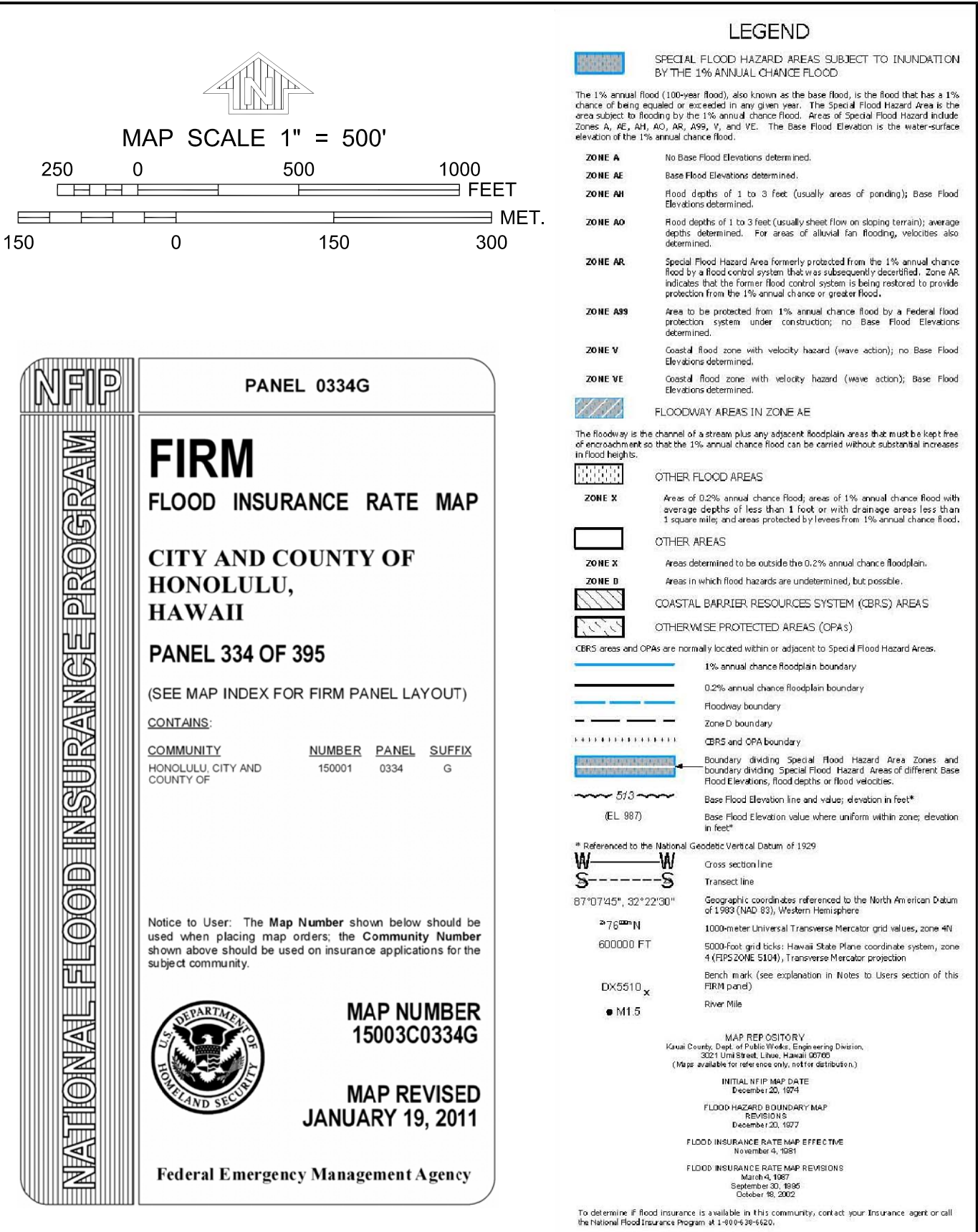
March 4, 1987
September 30, 1995
October 10, 2002

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

FREEWAY MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREEWAY (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII
100-YEAR FLOOD ZONE MAP
AIRPORT CCTV 1

EXHIBIT
74



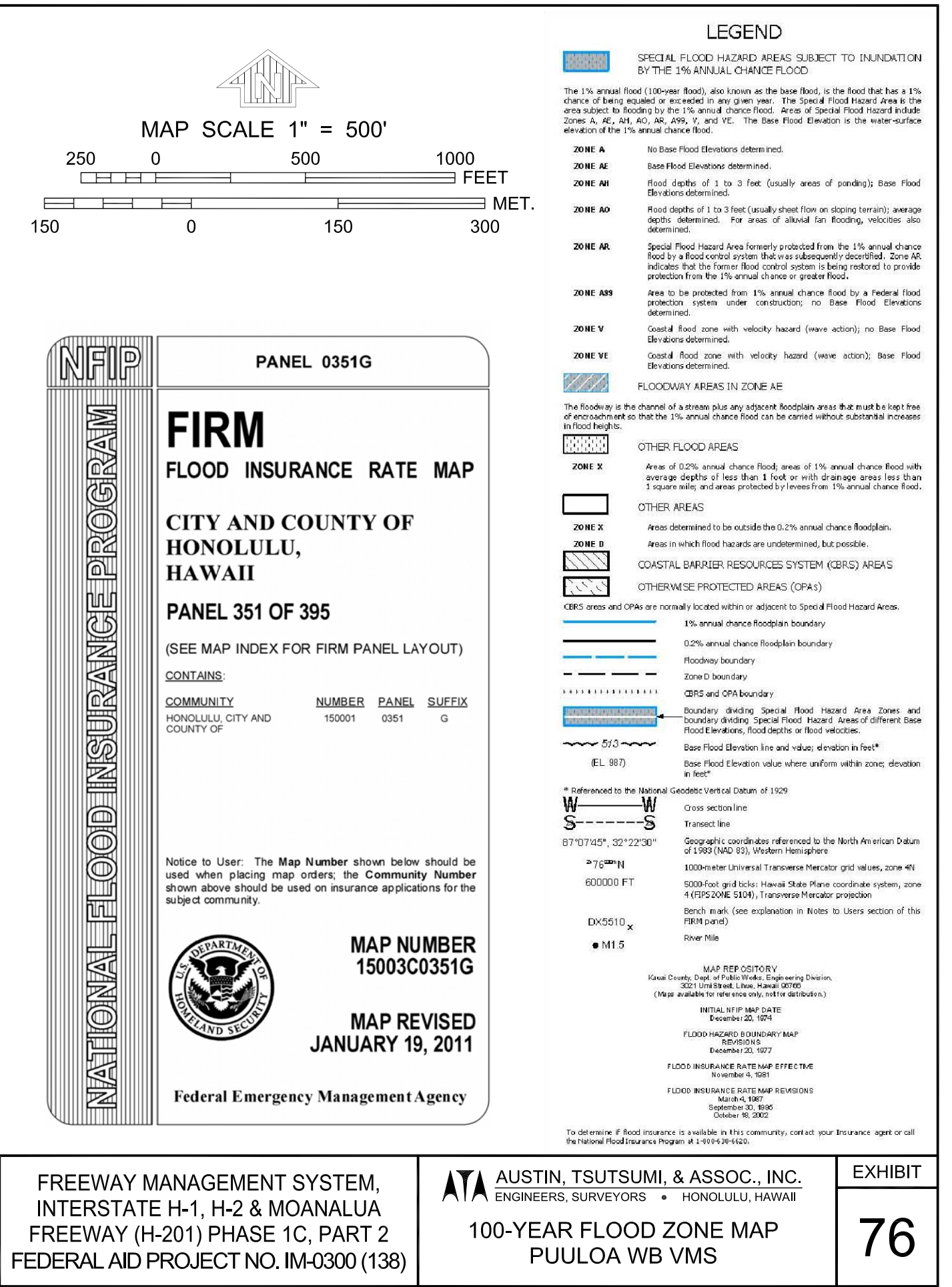
FREEWAY MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREEWAY (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

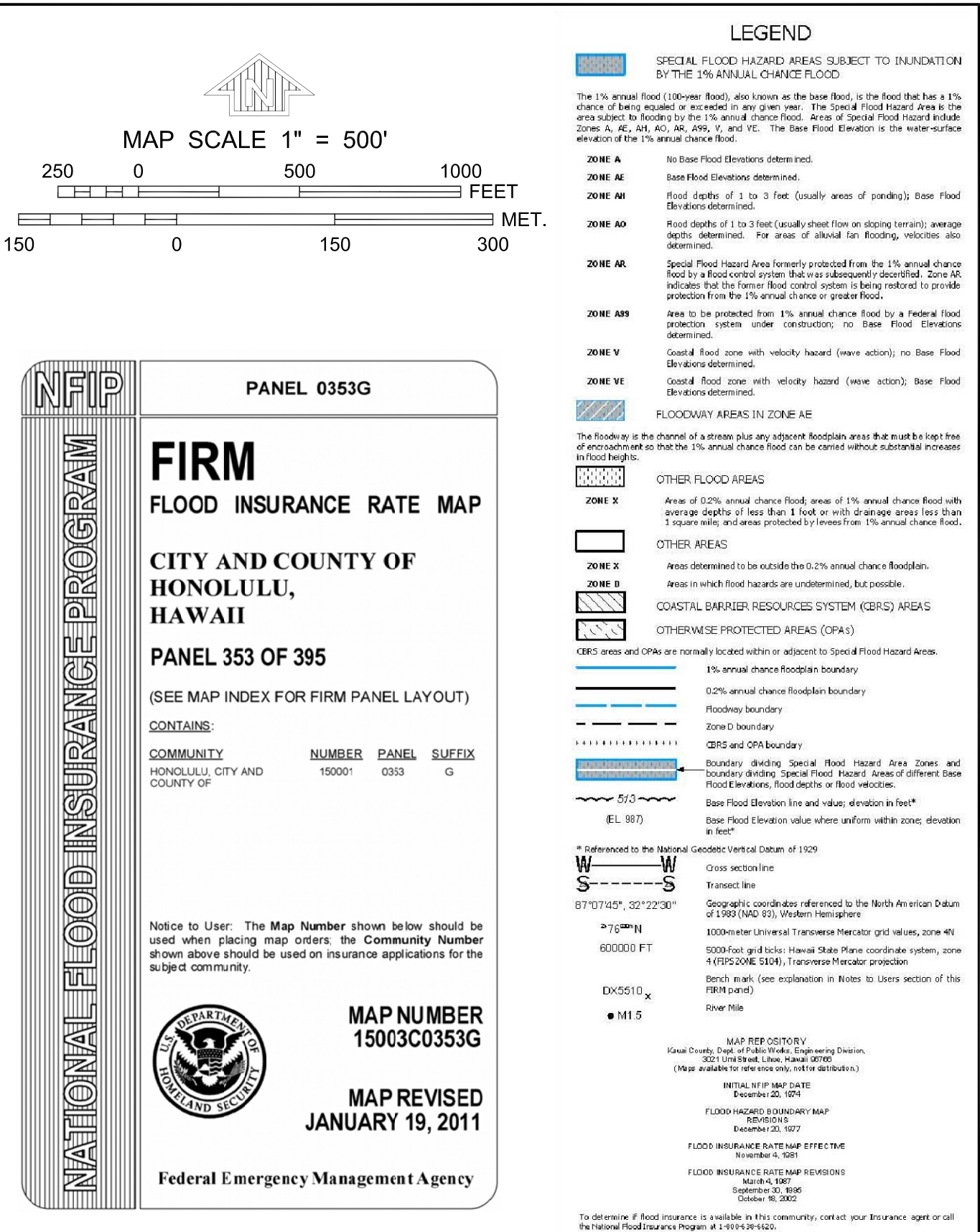
AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

**100-YEAR FLOOD ZONE MAP
AIRPORT CCTV 2**

EXHIBIT

75



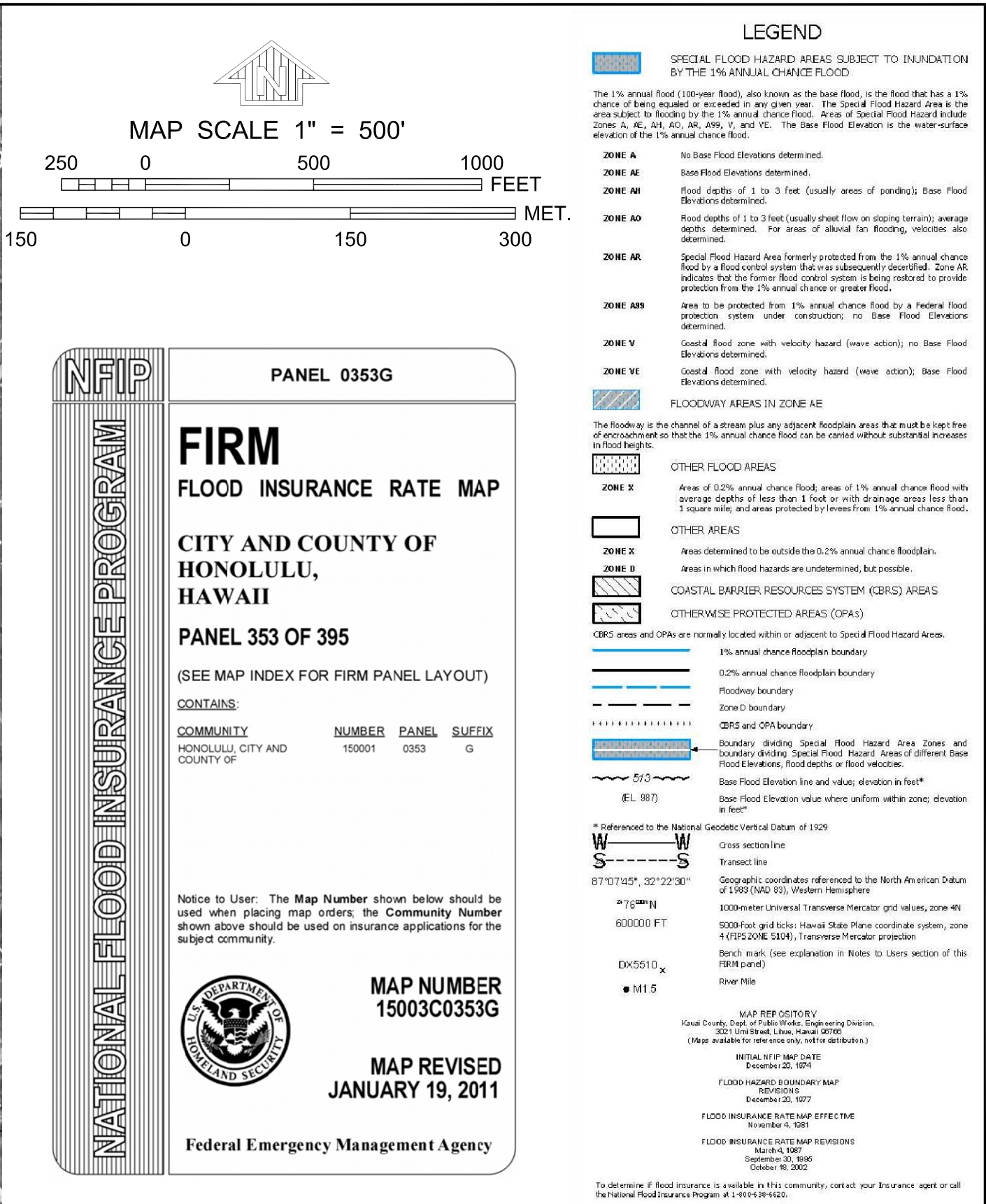
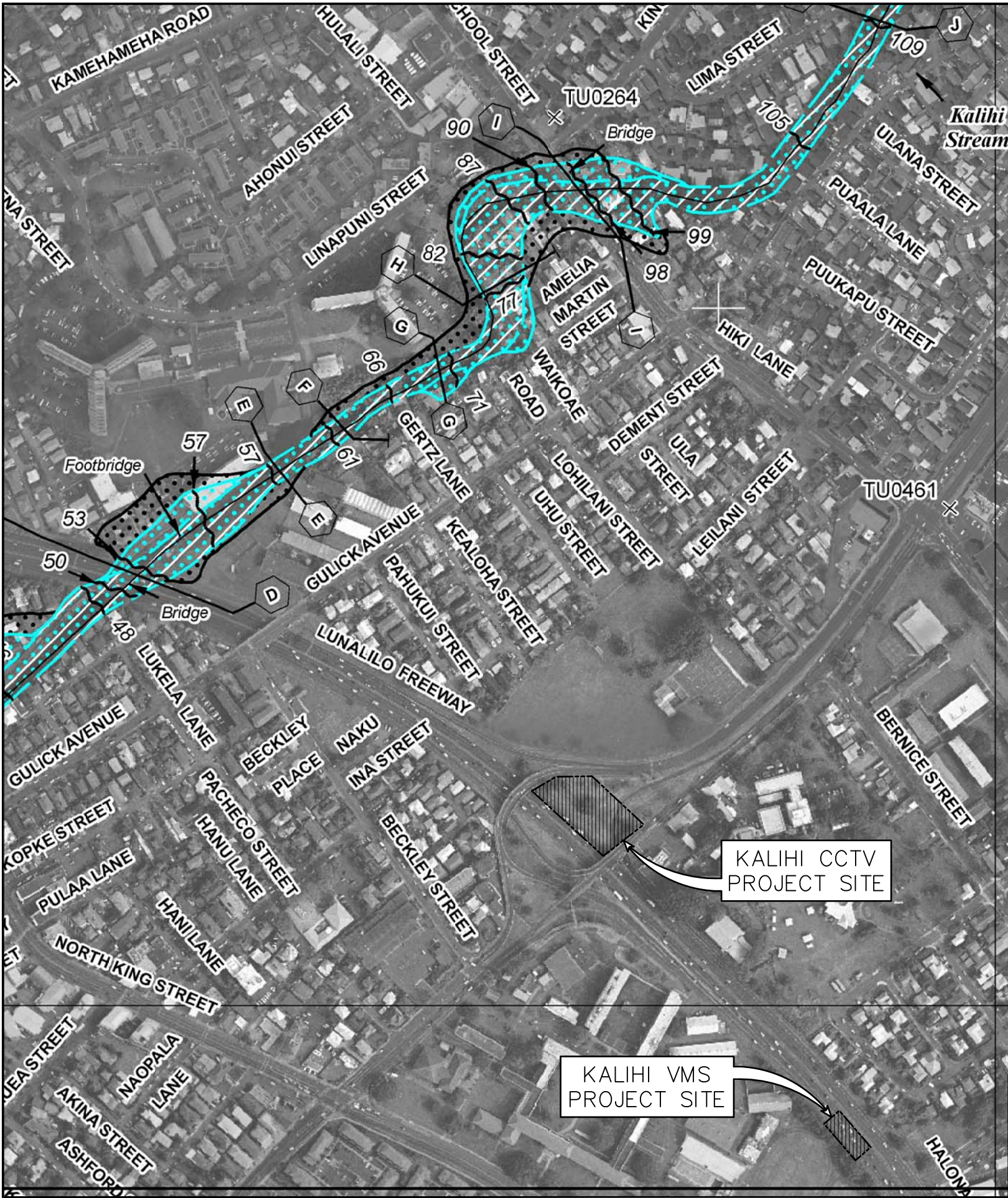


FREEWAY MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREEWAY (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

100-YEAR FLOOD ZONE MAP
OLA LANE CCTV

FN: X:\96-46\96-46.27\NPDES\NPDES EXHIBITS\EX 78 - 100 YR FLOOD ZONE MAP - KALIHI CCTV & VMS.DWG



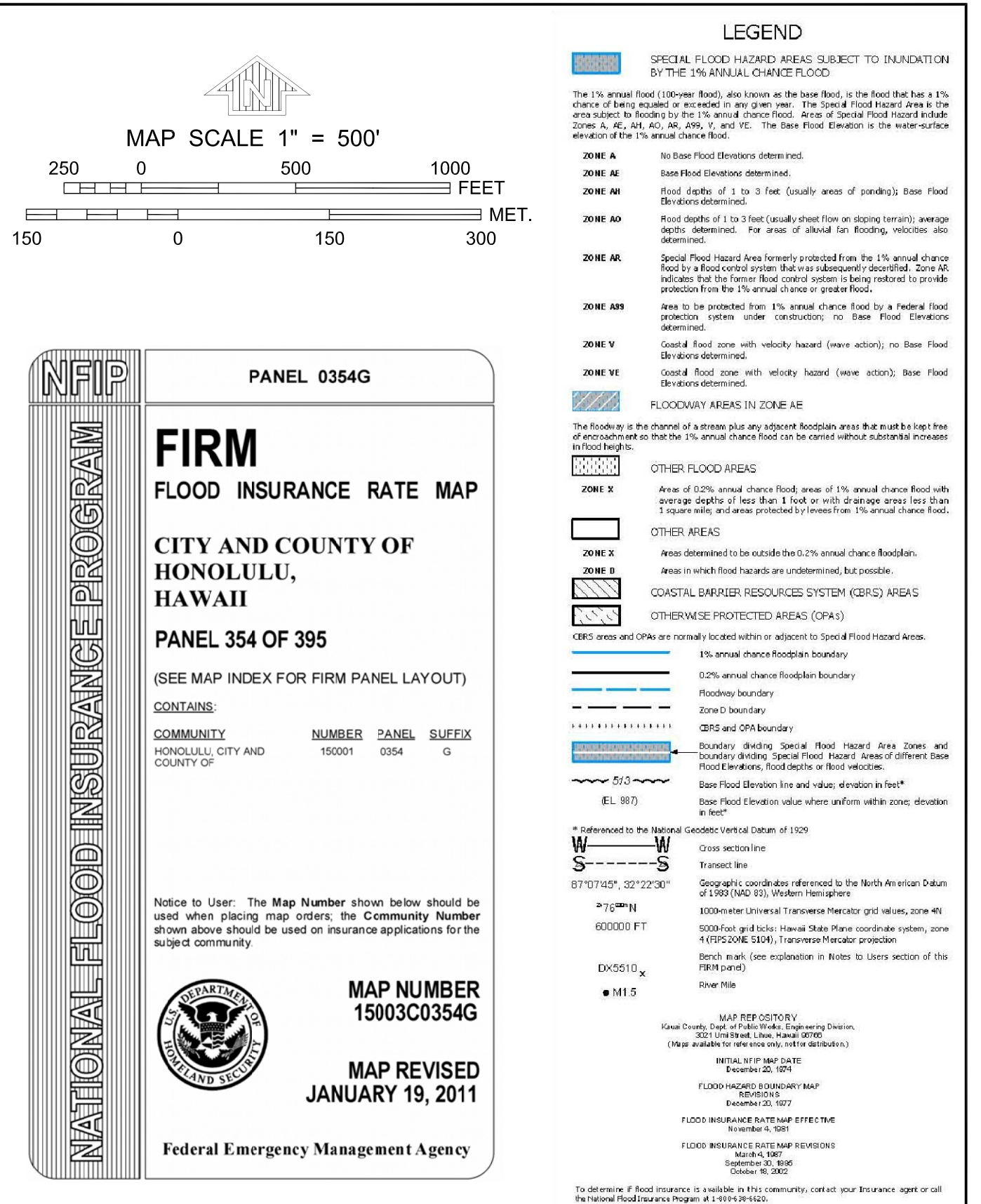
FREeway MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREeway (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

100-YEAR FLOOD ZONE MAP
KALIHI CCTV & VMS

EXHIBIT

78



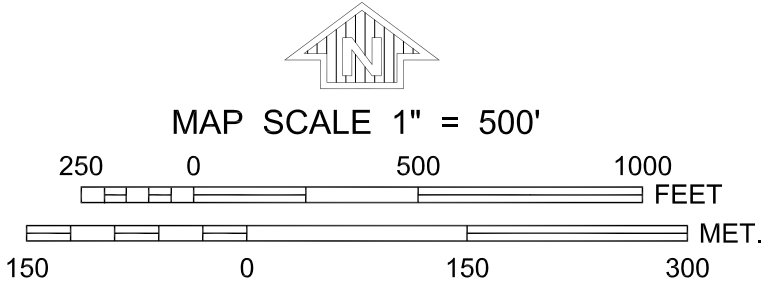
FREEWAY MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREEWAY (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

ATA AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

100-YEAR FLOOD ZONE MAP
AALA CCTV

XHIBIT

79



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0362G

FIRM

FLOOD INSURANCE RATE MAP

CITY AND COUNTY OF
HONOLULU,
HAWAII

PANEL 362 OF 395

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HONOLULU, CITY AND COUNTY OF	150001	0362	G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
15003C0362G

MAP REVISED
JANUARY 19, 2011

Federal Emergency Management Agency

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently deteriorated. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**

- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
 - 0.2% annual chance floodplain boundary
 - Floodway boundary
 - Zone D boundary
 - CBRS and OPA boundary
 - Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
 - Base Flood Elevation line and value; elevation in feet*
(EL. 987)

- * Referenced to the National Geodetic Vertical Datum of 1929
- Cross section line
 - Transect line
 - Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
 - 1000-meter Universal Transverse Mercator grid values, zone 4N
 - 5000-Foot grid ticks: Hawaii State Plane coordinate system, zone 4 (FIPS ZONE 5104), Transverse Mercator projection
 - Bench mark (see explanation in Notes to Users section of this FIRM panel)
 - River Mile

MAP REPOSITORY
Kauai County, Dept. of Public Works, Engineering Division,
3021 Umi Street, Lihoe, Hawaii 96760
(Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE
December 20, 1974

FLOOD HAZARD BOUNDARY MAP
REVISIONS
December 20, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE
November 4, 1981

FLOOD INSURANCE RATE MAP REVISIONS
March 4, 1987
September 30, 1995
October 10, 2002

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

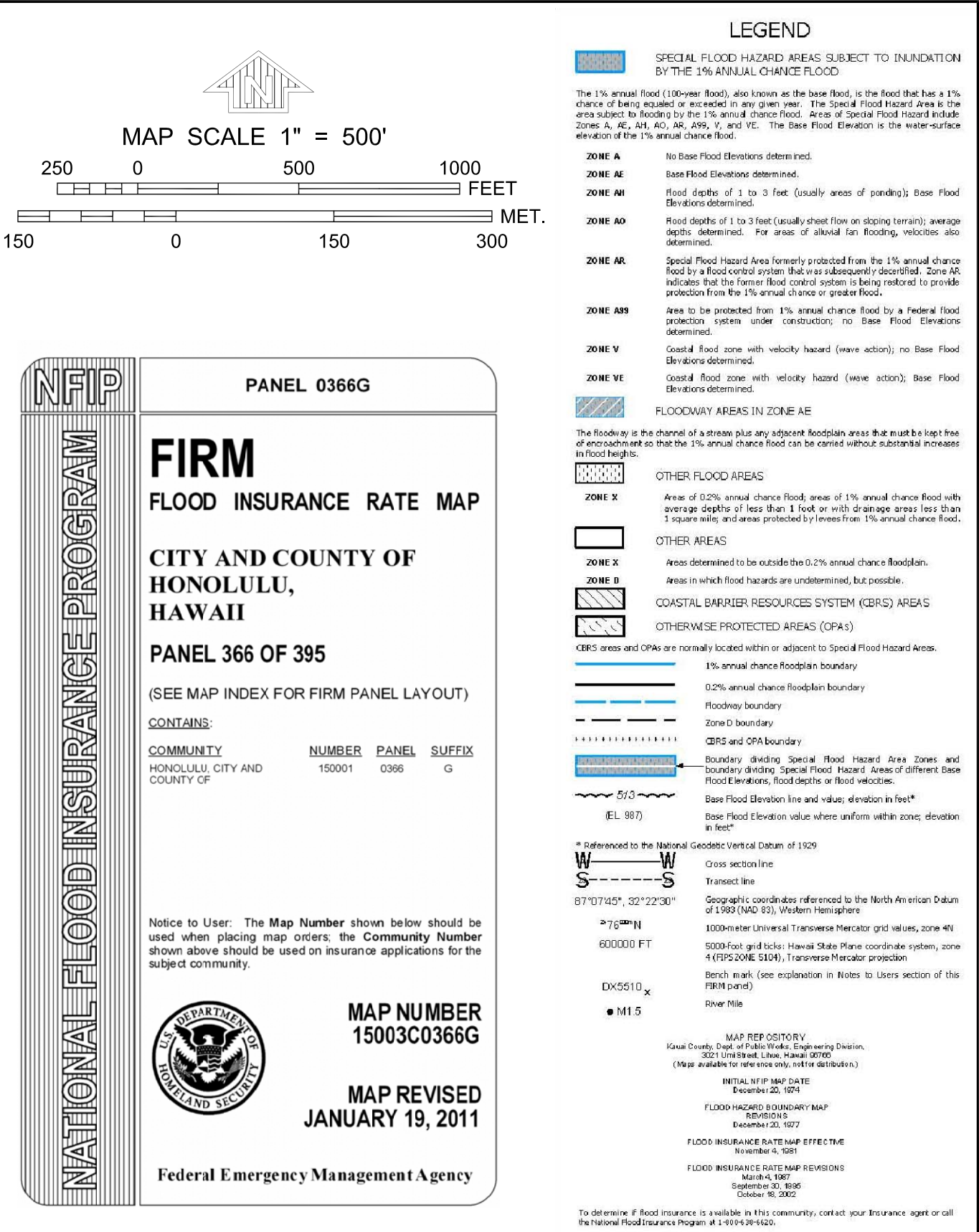
FREeway MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREeway (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

AUSTIN, TSUTSUMI, & ASSOC., INC.
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

100-YEAR FLOOD ZONE MAP
PUOWAINA CCTV

EXHIBIT

80



FN: X:\96-46\96-46.27\NPDES\NPDES EXHIBITS\EX 82 - 100 YR FLOOD ZONE MAP - MCCULLY CCTV.DWG



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0366G

FIRM

FLOOD INSURANCE RATE MAP

CITY AND COUNTY OF HONOLULU, HAWAII


PANEL 366 OF 395

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HONOLULU, CITY AND COUNTY OF	150001	0366	G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER


15003C0366G

MAP REVISED

JANUARY 19, 2011

Federal Emergency Management Agency

LEGEND

 SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.


ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently deteriorated. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.


ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.


ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

 FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.


 OTHER FLOOD AREAS


ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

 OTHER AREAS


ZONE X Areas determined to be outside the 0.2% annual chance floodplain.


ZONE D Areas in which flood hazards are undetermined, but possible.


 COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS


 OTHERWISE PROTECTED AREAS (OPAs)


CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.


 1% annual chance floodplain boundary

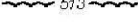
 0.2% annual chance floodplain boundary

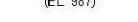
 Floodway boundary

 Zone D boundary


 CBRS and OPA boundary

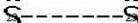
 Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

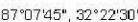
 Base Flood Elevation line and value; elevation in feet*

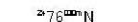
 Base Flood Elevation value where uniform within zone; elevation in feet*


* Referenced to the National Geodetic Vertical Datum of 1929


 Cross section line

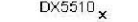
 Transect line

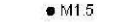
 Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

 1000-meter Universal Transverse Mercator grid values, zone 4N

 5000-Foot grid bicks: Hawaii State Plane coordinate system, zone 4 (HPS ZONE 5104), Transverse Mercator projection

 Bench mark (see explanation in Notes to Users section of this FIRM panel)

 River Mile

 MAP REPOSITORY

Kauai County, Dept. of Public Works, Engineering Division,
3021 Umi Street, Lihoe, Hawaii 96760
(Maps available for reference only, not for distribution.)

INITIAL NFIP MAP DATE
December 20, 1974


FLOOD HAZARD BOUNDARY MAP REVISIONS
December 20, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE
November 4, 1981

FLOOD INSURANCE RATE MAP REVISIONS
March 4, 1987
September 30, 1995
October 10, 2002

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

FREEWAY MANAGEMENT SYSTEM,
INTERSTATE H-1, H-2 & MOANALUA
FREEWAY (H-201) PHASE 1C, PART 2
FEDERAL AID PROJECT NO. IM-0300 (138)

 **AUSTIN, TSUTSUMI, & ASSOC., INC.**
ENGINEERS, SURVEYORS • HONOLULU, HAWAII
100-YEAR FLOOD ZONE MAP
McCULLY CCTV

EXHIBIT

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