

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FMT2-G0294		17	84

DEPARTMENT OF TRANSPORTATION NOTES

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY

- The Contractor shall obtain a construction permit from the State's Highway District Engineer at 727 Koko Street, Honolulu prior to commencement of work within State highway right-of-way.
- Construction and restoration of all existing highway facilities within State right-of-way shall be done in accordance with all applicable sections of the current Standard Specifications for Road and Bridge Construction, and the Specification for Installation of Miscellaneous Improvements Within State Highways, of the State Highways Division.
- All lanes shall be opened to traffic during the afternoon peak hours from 3:30 p.m. to 5:30 p.m. and during non-working hours except as specified in Specifications Section 645-Traffic Control.
- The Contractor shall provide, install, and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the convenience and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways" adopted by the Director of Transportation, and the current U.S. Federal Highway Administration "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI - Traffic Control for Highway Construction and Maintenance Operations". If lane closures are required during construction, a traffic control plan shall be incorporated into the construction plans and must be approved by the Division prior to the issuance of the permit.
- No material and/or equipment shall be stockpiled or otherwise stored within highway rights-of-way except at locations designated in writing and approved by the District Engineer.
- Compaction tests shall be taken in accordance with the Specifications for Installation of Miscellaneous Improvements Within State Highways, and as directed by the State's Highway District Engineer.
- Prior to commencing trench excavation work, the Contractor shall take a profile along the new centerline of utility trench and that such information shall be used in the verification of restoring the roadway to its original condition. A copy of the profile shall be submitted to the District Engineer.
- The Contractor shall be required to provide adequate, safe, non-skid bridging material over the trench, including shoring, when trenching in pavement areas to handle all types of vehicular traffic.
- No trench shall be opened in advance of the installed and tested pipe and/or ductline more than the length directed by the State's Highway District Engineer.
- Longitudinal drainage along the highway shall be maintained.
- Pavement striping shall be done by Contractor.

- Approval of permit construction plans shall be valid for a period of one year thereof from the date of notification of approval to the applicant. In the event construction does not commence within this one-year period, the applicant will be required to resubmit his construction plans for Division's review and approval.
- All regulatory, guide and construction signs and barricades shall be of high intensity reflective sheeting.
- The Contractor shall sawcut the pavement prior to commencing trench or roadway excavation work.
- The contractor shall place a "Notice to Motorists" announcement in the two major daily newspapers for at least three consecutive days, one week prior to start of construction. The notice shall be prepared in accordance with State DOT Highways Division standards and submitted to the Construction and Maintenance Branch for approval at least four (4) weeks before publishing in the newspaper.


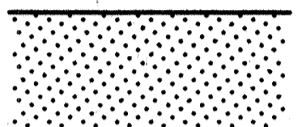
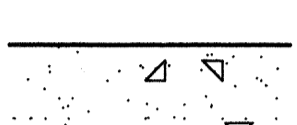

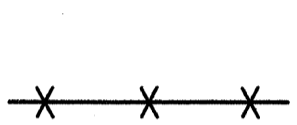
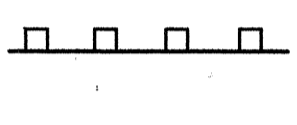

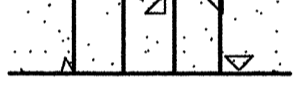
ABBREVIATIONS

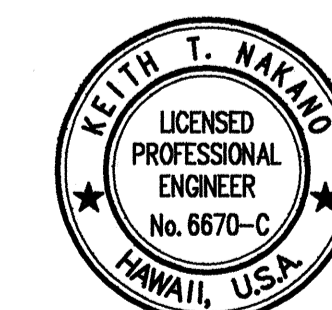
AC	Asphalt Concrete
℄	Baseline
CB	Catch Basin
conc.	Concrete
exist	Existing
GDI	Grated Drop Intake
Inv.	Invert
Lt.	Left
MH	Manhole
Pavt.	Pavement
PB	Pullbox
PCC	Portland Cement Concrete
R	Radius
Rt.	Right
R/W	Right-of-Way
Sta	Station
Typ.	Typical

GENERAL NOTES

- All work and materials shall conform to the applicable sections of the current Standard Specifications for Road and Bridge Construction, except as otherwise provided on the plans or in the Special Provisions.
- Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to Castle & Cooke Residential, Inc.
- Covers of utility structures which are in service shall be adjusted to finish grade whether or not they are shown on Plans. Abandoned utility boxes within the area of work shall be demolished and ducts, pipes, etc. shall be plugged.
- Contractor shall provide and maintain, as is necessary, temporary water diversion facilities with equal or larger capacity than the existing drainage facilities.
- All regraded areas and all grassed areas damaged by construction activities shall be planted in accordance with Specifications Section 653 - Temporary Ground Cover. Planting strip between curb and sidewalk shall be planted with Bermuda Grass (*Cynodon Dactylon*).
- Existing fences and metal beam guardrails located within the right-of-way and which are to be removed shall become the property of the contractor.
- Existing concrete structures, such as slabs, walls, manholes, culverts, channels, etc., which are designated to be removed or are in conflict with proposed construction shall be removed to a depth of not less than 3 feet below finish grade in roadway and not less than 1.5 feet below finish grade in other areas.
- Where necessary, existing A.C. pavement shall be cold-planed to 1 1/2" below finish grade to permit installation of A.C. overlay of not less than 1 1/2" thickness. Such work is not limited to areas identified on plans, but shall be performed as required.
- All existing pavement which will not remain shall be rooted, plowed, pulverized or scarified to a minimum depth of 6".
- Saw cut pavement, sidewalk, curb, and gutter at limits of reconstruction before removal.
- Backfill between reconstructed sidewalk and curb with select material and at least 6-inches topsoil.
- Provide expansion joints in concrete curb and gutters and in concrete sidewalks at a spacing not exceeding 100 feet and at beginning and end of curb returns. Joints in sidewalk shall be in line with joints in abutting curb or adjacent curb.
- Provide longitudinal broom finish for Curb Type 2D and Curb & Gutter Type 2DG.
- State Plane Coordinate System Origin of Azimuth: Central Meridian 158°00'00" (Zone III). Coordinates shown are based on local system reference "Waipio Uka".

LEGEND

	A.C. Overlay
	Plain Concrete Gutter
	Plain Concrete Sidewalk
	Approximate Grading Limit
	Chain Link Fence with Toprail
	W-Beam Guardrail, Type 3 (unless otherwise indicated)
	R/W or Property Line
	Wheel Chair Ramp Type D

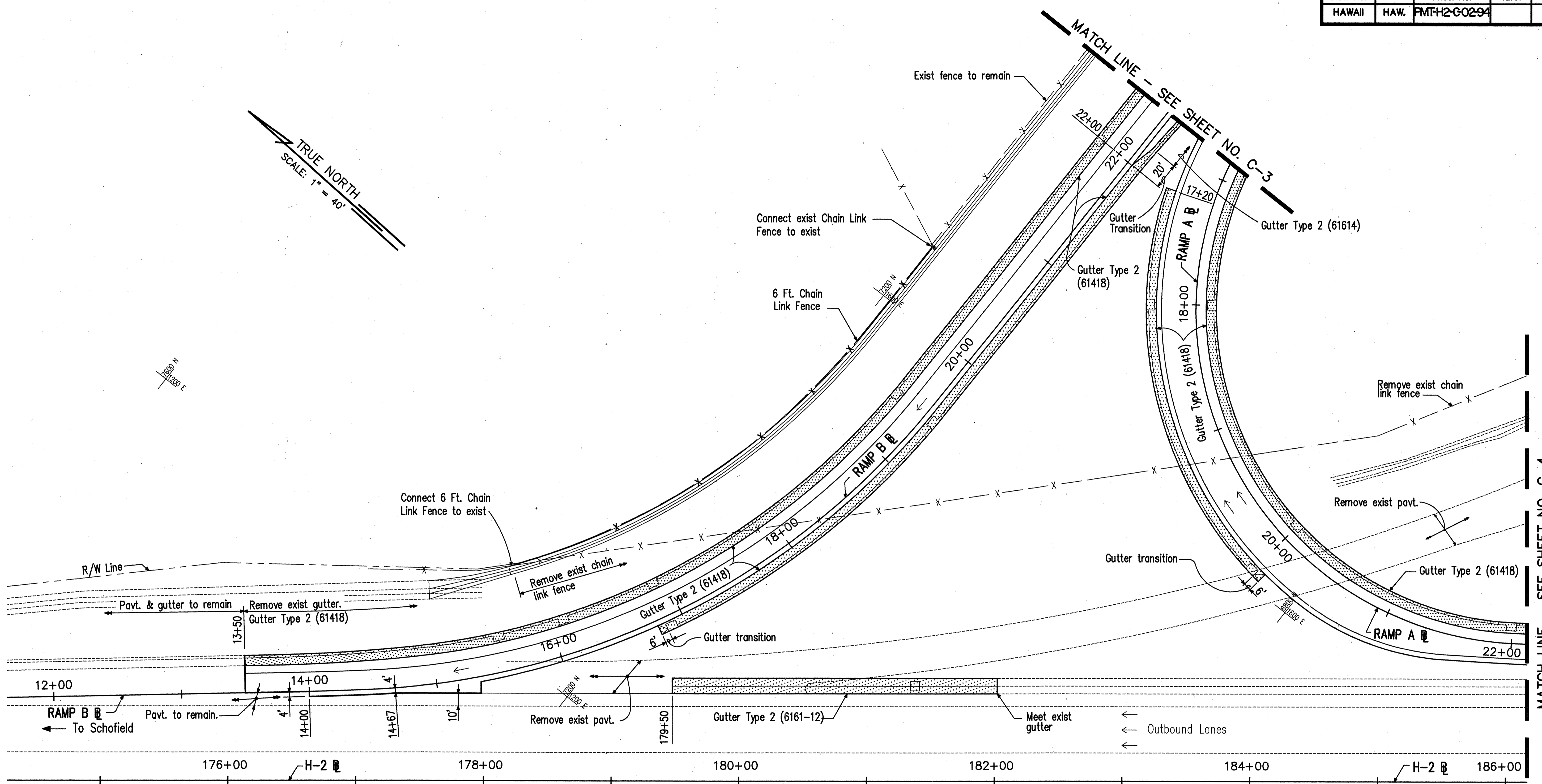


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Ketia T. Makino

CASTLE & COOKE RESIDENTIAL, Inc.	
ROADWAY CONSTRUCTION	
NOTES, LEGEND & ABBREVIATIONS	
MILILANI INTERCHANGE	
NORTHBOUND ON- AND OFF-RAMPS	
SCALE:	DATE: March 1992
SHEET No.C-1 OF 6 SHEETS	

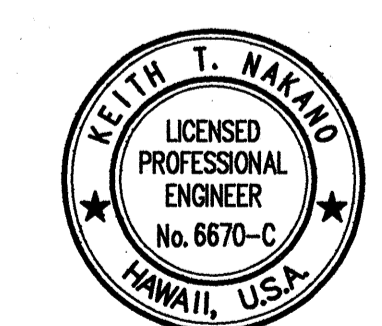
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMTH2-00294		18	84



TRUE NORTH
SCALE: 1" = 40'

MATCH LINE - SEE SHEET NO. C-3

MATCH LINE - SEE SHEET NO. C-4



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Keith T. Nakano

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ROADWAY CONSTRUCTION

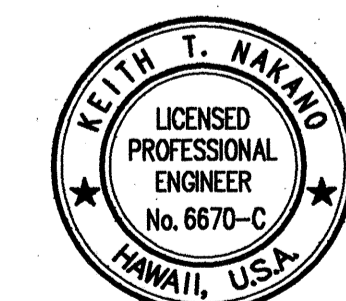
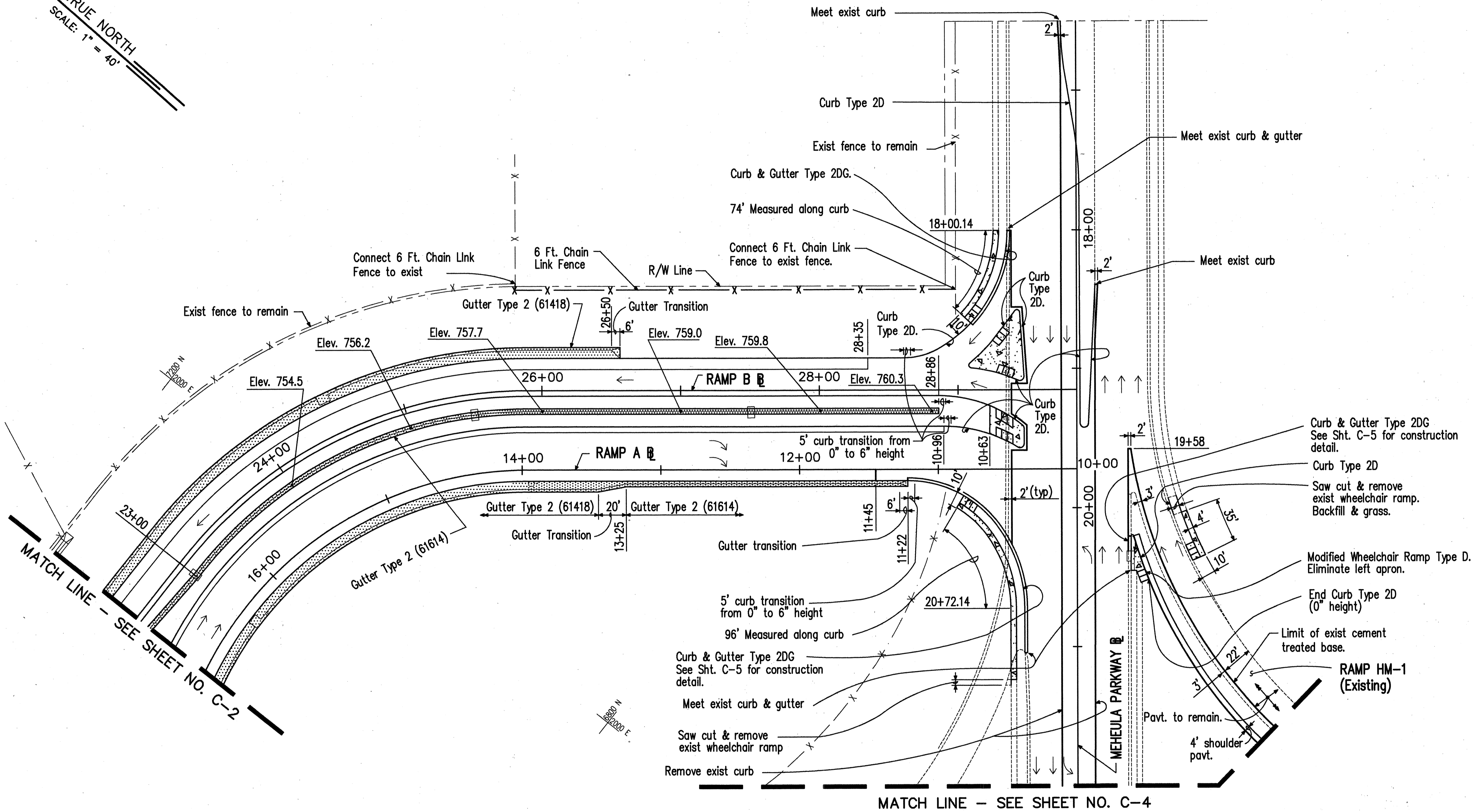
MILILANI INTERCHANGE
NORTHBOUND ON- AND OFF-RAMPS

SCALE: 1"=40' DATE: March 1992

SHEET No.C-2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FMFH2-G0294		19	84

TRUE NORTH
SCALE: 1" = 40'



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Keith T. Hayward

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ROADWAY CONSTRUCTION

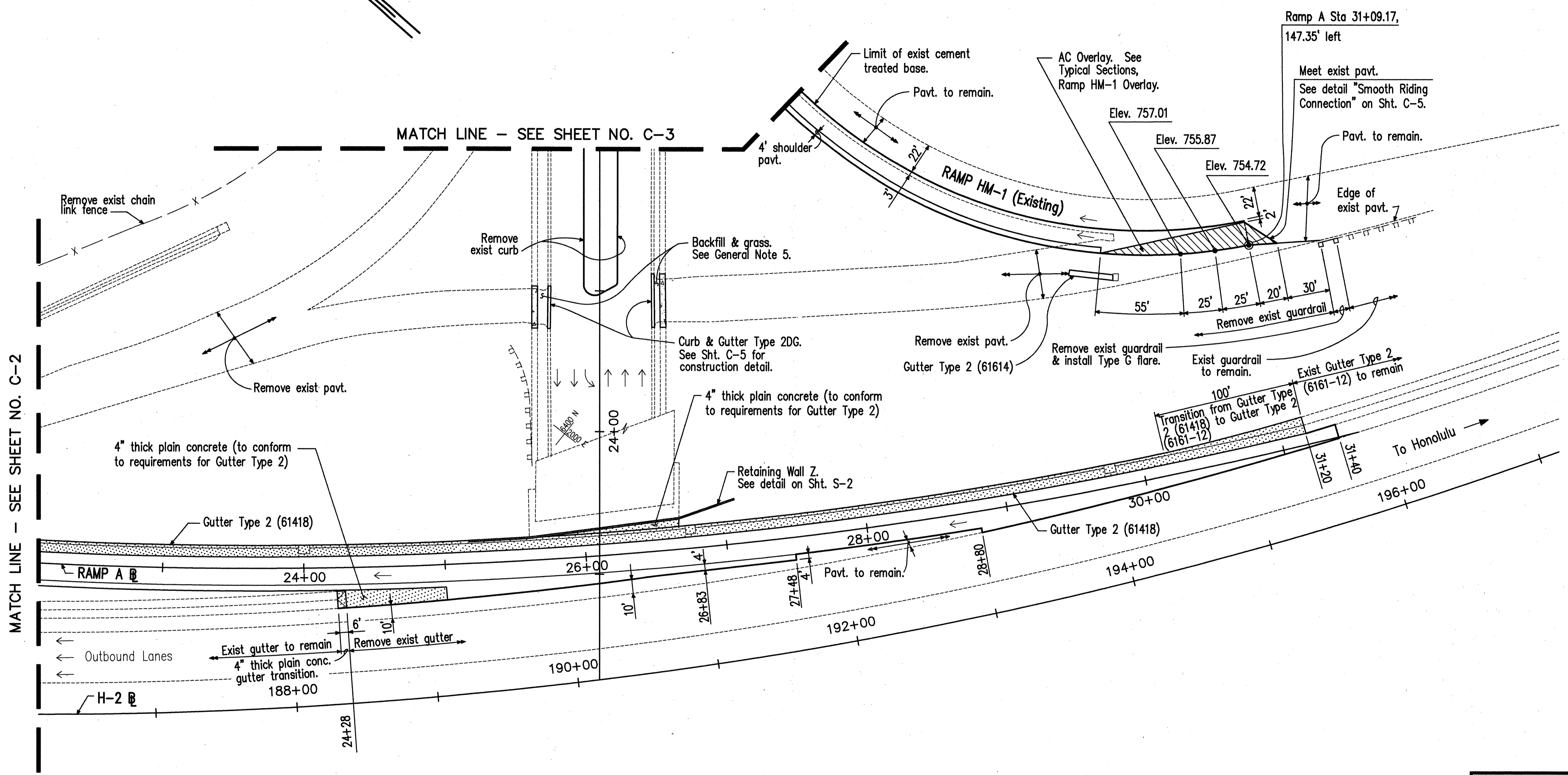
MILILANI INTERCHANGE
NORTHBOUND ON- AND OFF-RAMPS

SCALE: 1"=40' DATE: March 1992

SHEET No.C-3 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMTF2-C-02-94		20	84

TRUE NORTH
SCALE: 1" = 40'



MATCH LINE - SEE SHEET NO. C-2

MATCH LINE - SEE SHEET NO. C-3



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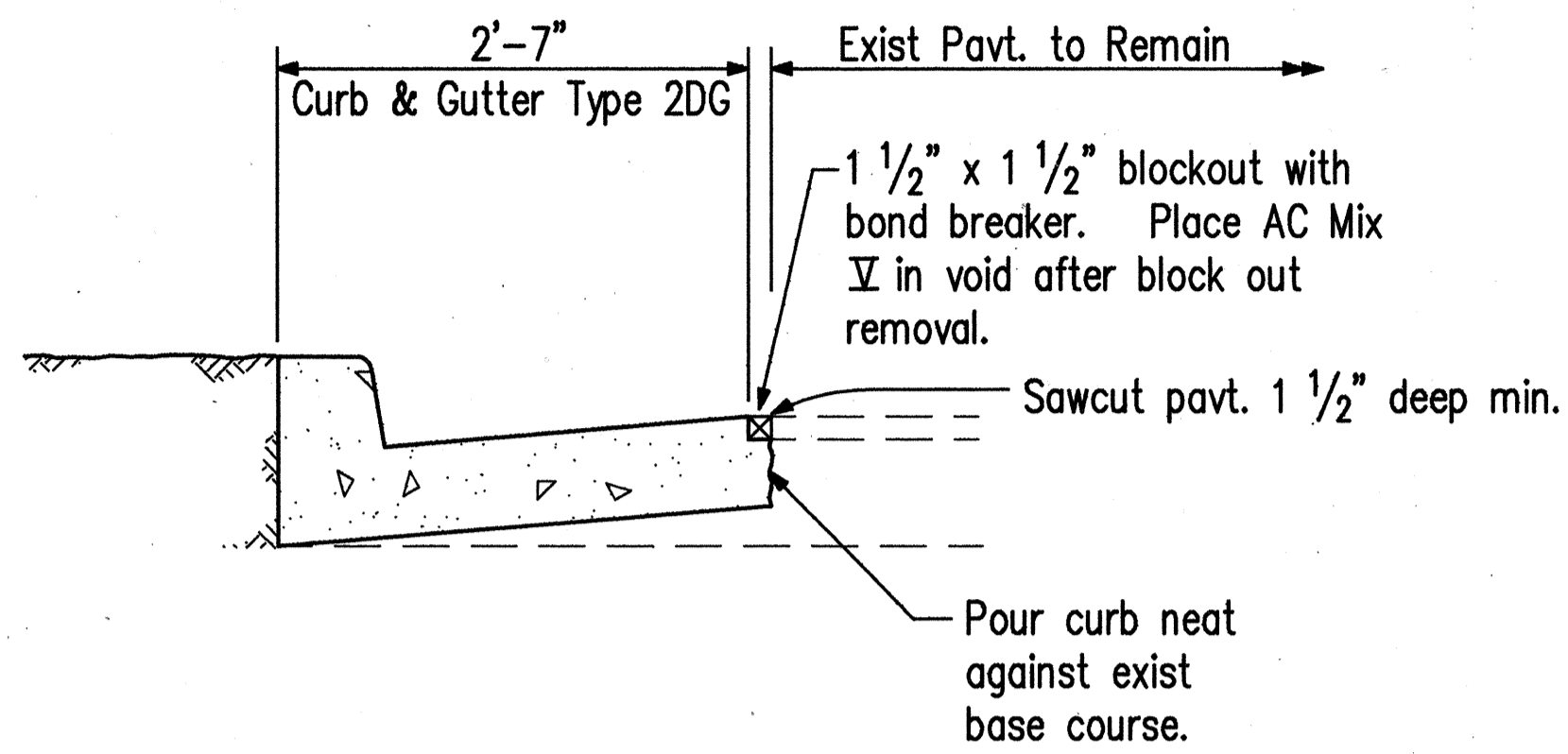
ROADWAY CONSTRUCTION

MILILANI INTERCHANGE
NORTHBOUND ON- AND OFF-RAMPS

SCALE: 1"=40' DATE: March 1992

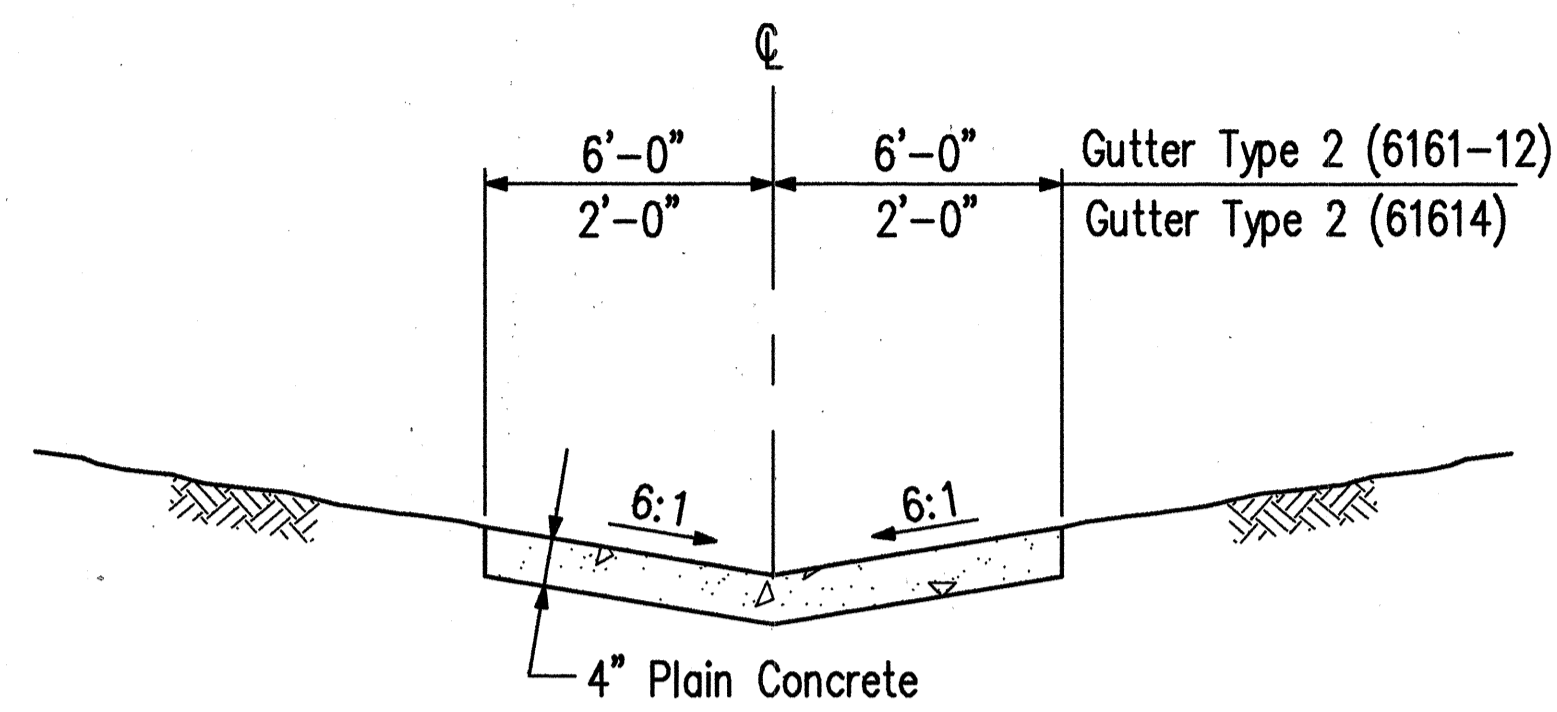
SHEET No.C-4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMFH2-C-0294		21	84



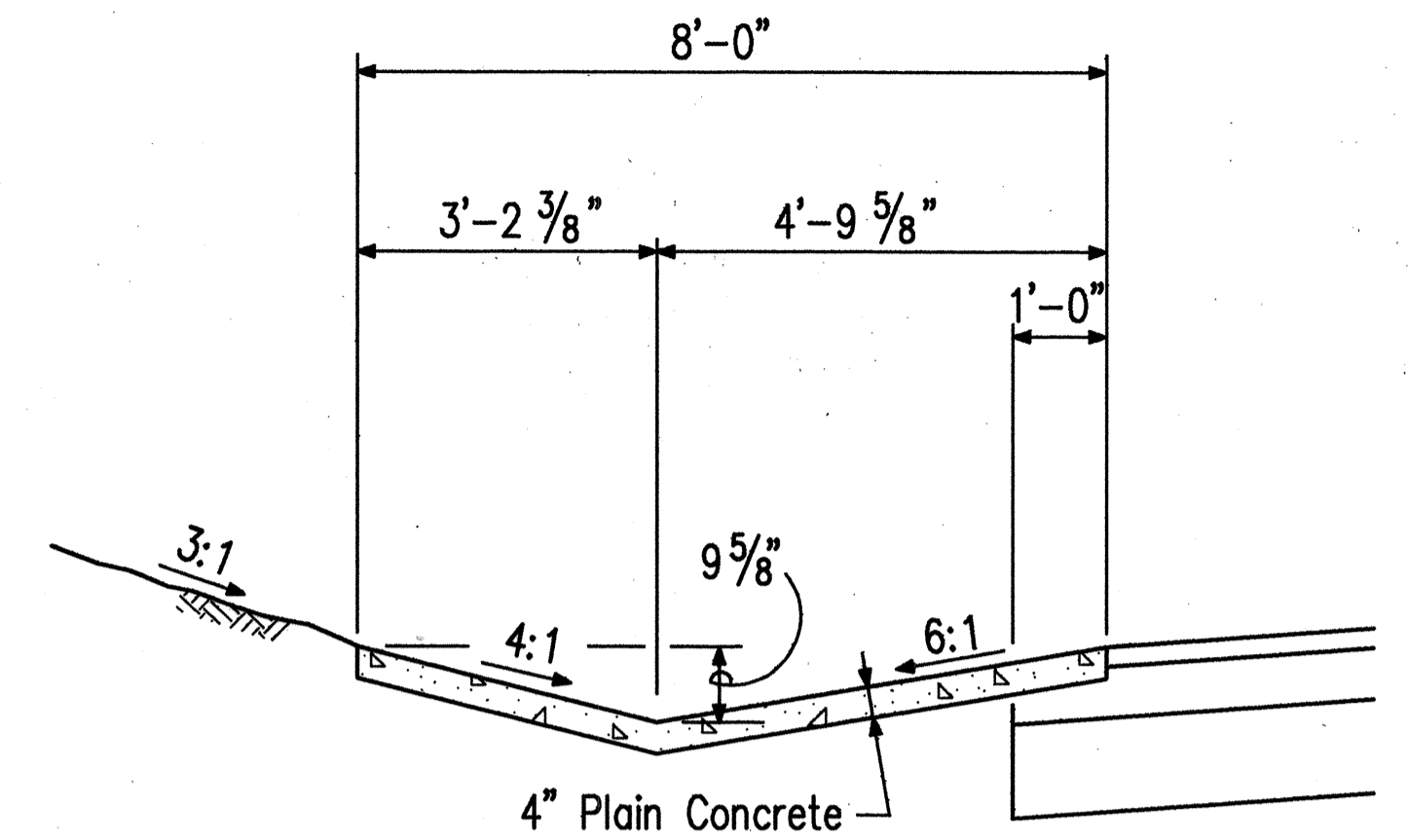
CURB & GUTTER TYPE 2DG CONSTRUCTION DETAIL

Scale: 1" = 1'-0"



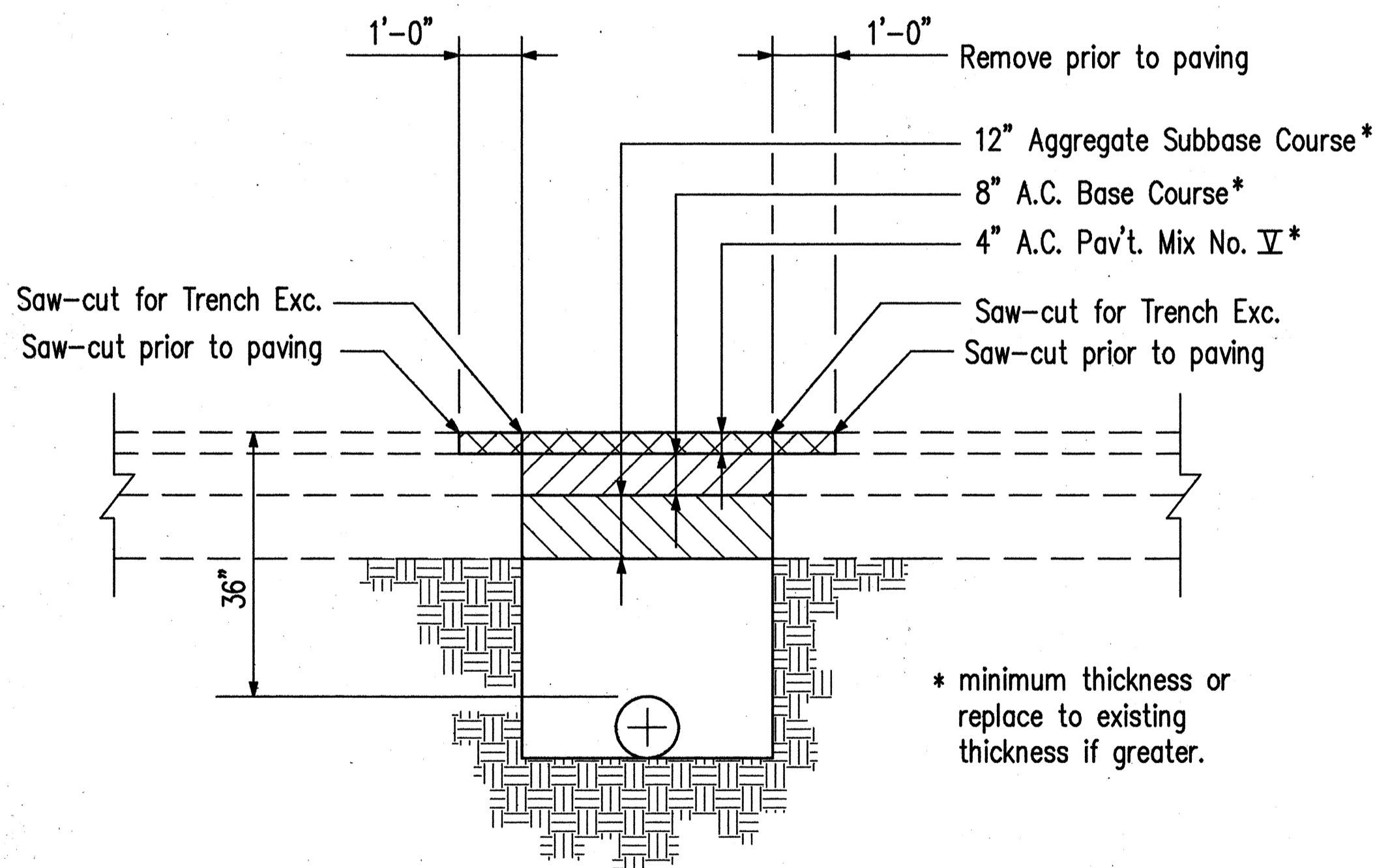
GUTTER TYPE 2 (6161-12) & (61614)

Scale: 3/4" = 1'-0"



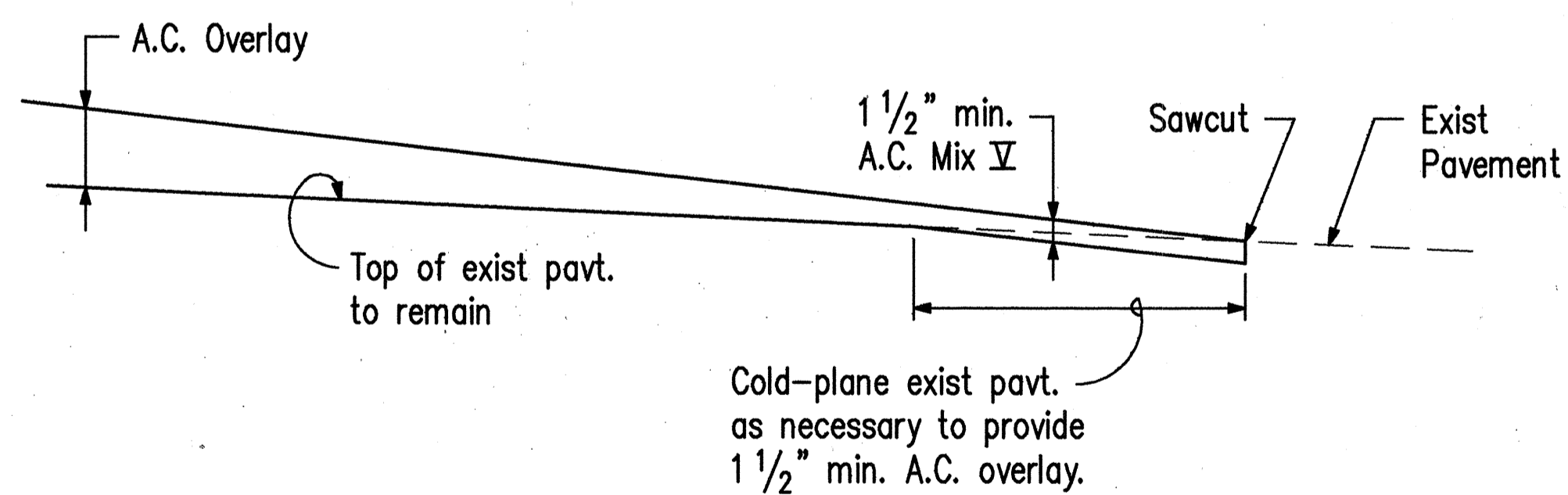
GUTTER TYPE 2 (61418)

Scale: 1/2" = 1'-0"



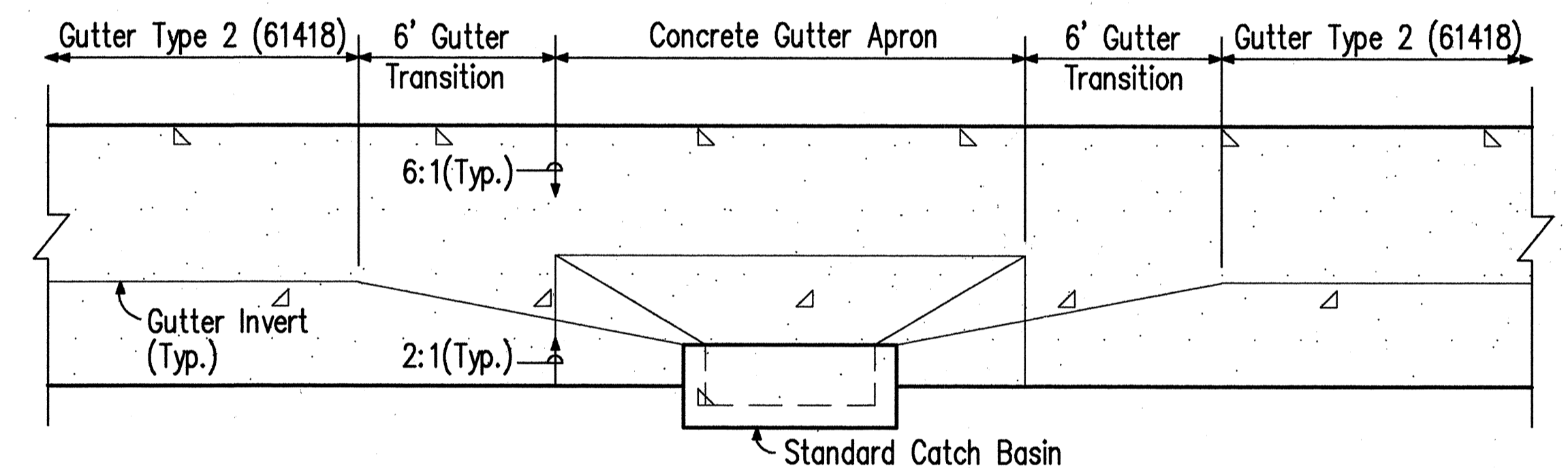
RESTORATION OF EXISTING PAVEMENT DUE TO TRENCH EXCAVATION

N.T.S.



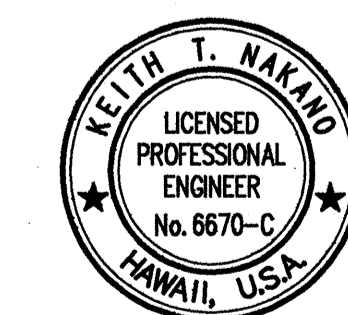
SMOOTH RIDING CONNECTION

N.T.S.



CATCH BASIN GUTTER TRANSITION

Scale: 1/4" = 1'-0"



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CASTLE & COOKE RESIDENTIAL, Inc.

ROADWAY CONSTRUCTION DETAILS

MILILANI INTERCHANGE
NORTHBOUND ON- AND OFF-RAMPS

SCALE: AS SHOWN

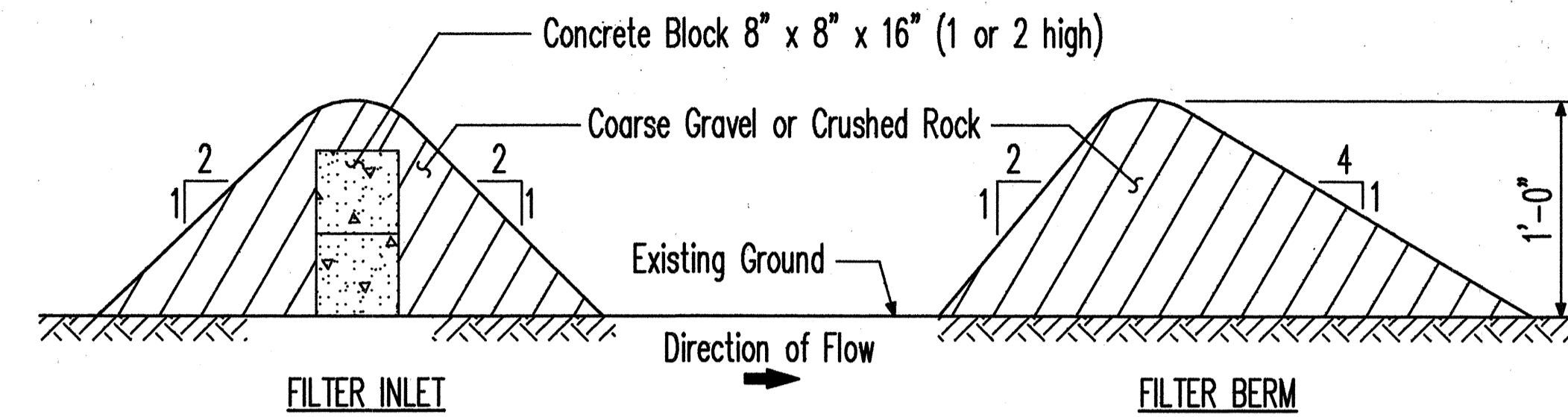
DATE: March 1992

SHEET No.C-5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FMTFH2-C02-94		22	84

NOTES FOR GRADING

- All grading work shall be done in accordance with Chapter ~~23~~ ^{14, Articles 13, 14, 15 & 16 as related to} Grading, Soil Erosion & Sediment Control, of the Revised Ordinances of Honolulu, ~~1978~~ ¹⁹⁹⁰, as amended. △
- The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways & other areas. The costs incurred for any necessary remedial action by the Chief Engineer (C & C, Dept. of Public Works) or the State Department of Transportation shall be payable by the Contractor.
- The Contractor, at his own expense, shall keep the project area & surrounding area free from dust nuisance. The work shall be in conformance with the air pollution control standards & regulations of the State Department of Health.
- The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations & depths of the facilities & exercise proper care in excavating in the area. Wherever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations & depths prior to excavation for the new lines. △
- All slopes and exposed areas shall be sodded or planted as soon as final grades have been established. Planting shall not be delayed until all grading work has been completed. Grading to final grade shall be continuous, and any area, within which work has been interrupted or delayed, shall be planted. Planting shall be in accordance with Specifications Section 653 - Temporary Ground Cover.
- Fills on existing slopes steeper than 5:1 shall be keyed.
- The City shall be informed of the location of the borrow/disposal site for the project when the application for a grading permit is made. The borrow/disposal site must also fulfill the requirements of the grading ordinance.
- No grading work shall be done on Saturdays, Sundays, & holidays at any time without prior notice to the Chief Engineer.
- The limits of the graded area shall be flagged before the commencement of the grading work.
- All grading operations shall be performed in conformance with the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title 11, Administrative Rules of the State Department of Health.
- Temporary Erosion Control Procedures shall be submitted for approval prior to application for a grading permit.
- Excavated material on site which will be exposed for more than 7 days shall be covered with plastic sheets within 2 days of placement or as directed by the Engineer.
- "Filter Berms" shall be installed along the edges of open channels & ditches in order to filter sediment from runoff, before waters enter the channels.
- "Filter Inlets" shall be installed in swales near catch basins in order to filter sediment from runoff, before waters enter closed drainage system.
- The borrow/disposal site must fulfill the requirements of the grading ordinance.



TEMPORARY EROSION CONTROL DETAILS
N.T.S.

Notes:

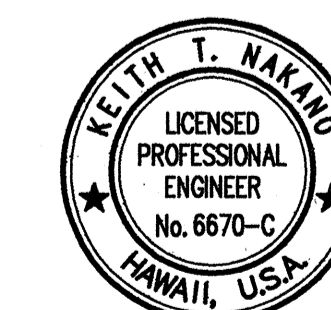
- Location of filter inlets for temporary erosion control are shown on drainage & grading plans.
- Contractor may use filter fabric silt fence in lieu of filter berms subject to the approval of the Engineer.

△	6/29/92	Revised Reference in Note 1. Revised Note 4 by adding "s" to "location & depth". Added signature blocks for C & C.
DATE	REVISION	
CASTLE & COOKE RESIDENTIAL, Inc.		
EROSION CONTROL NOTES & DETAILS		
MILLILANI INTERCHANGE NORTHBOUND ON- AND OFF-RAMPS		
SCALE:	DATE: March 1992	
SHEET No.C-6 OF 6 SHEETS		

△ APPROVED:

C. Michael Street 7/12/92
DIRECTOR AND CHIEF ENGINEER, DPW DATE
(FOR GRADING ONLY)

Edward H. F. Young 7/10/92
CHIEF DIVISION OF ENGINEERING, DPW DATE
(FOR GRADING ONLY)



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