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X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X
X	X

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	1	X

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

HONOLULU, HAWAII

PLANS FOR

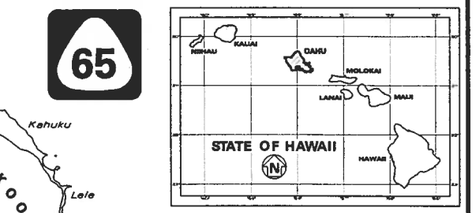
KANEOHE BAY DRIVE REHABILITATION

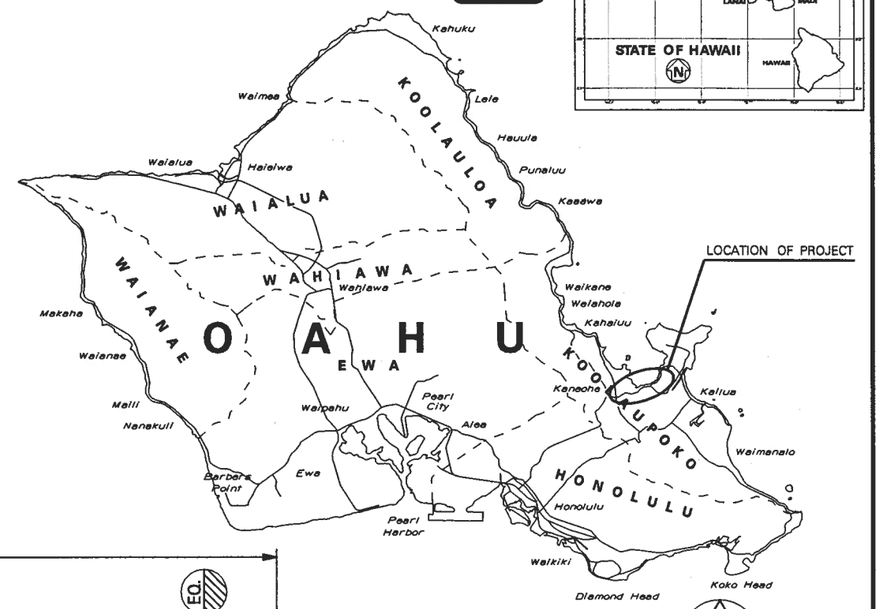
KAMEHAMEHA HIGHWAY TO NANAMOANA STREET

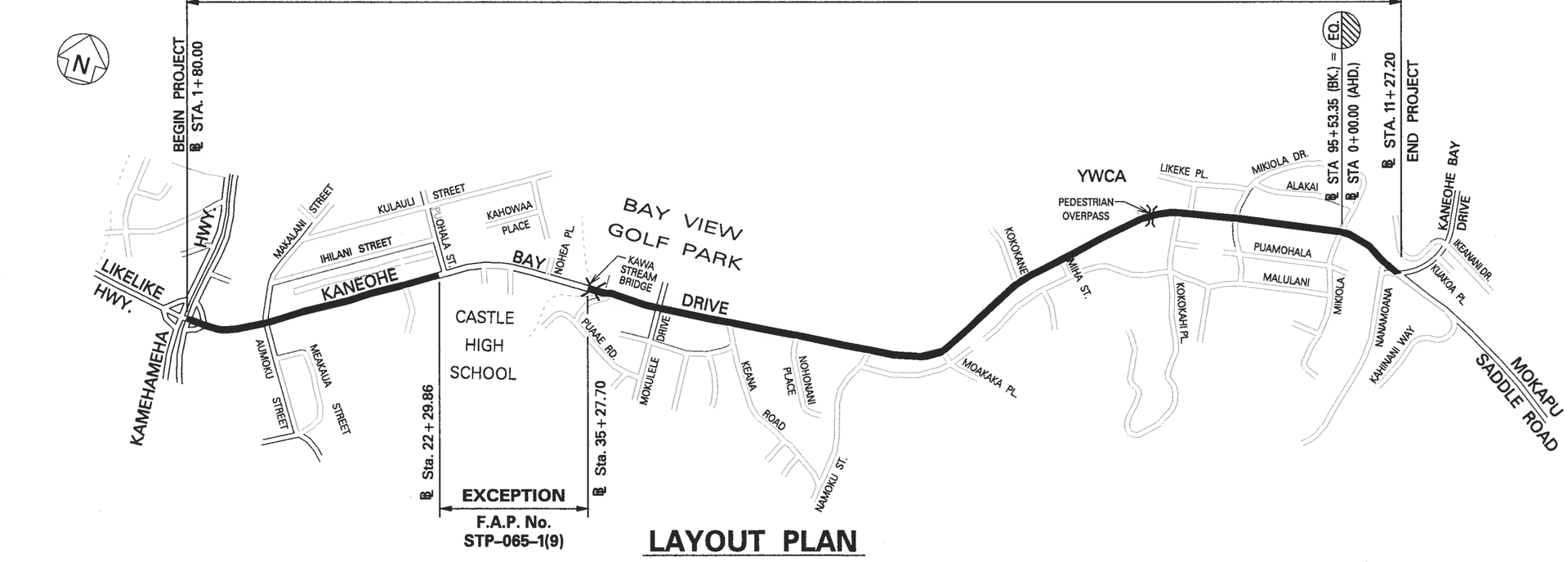
PROJECT NO. 65AB-01-04M

DISTRICT OF KOOLAUPOKO

ISLAND OF OAHU







LAYOUT PLAN

GROSS LENGTH OF PROJECT..... 2.00 MILES

NET LENGTH OF PROJECT..... 1.73 MILES

5 0 5 10 15

SCALE IN HUNDRED FEET

4 0 4 8

SCALE IN MILES

MILE POST 0.00 TO MILE POST 1.99

HWY-D DESIGNED BY

HWY-DD MANAGED BY

692-7570 PHONE

X DATE

DEPARTMENT OF TRANSPORTATION STATE OF HAWAII	
APPROVED:	
DIR. OF TRANSPORTATION	DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	3	X

GENERAL NOTES

1. The scope of work for this project consists of resurfacing with asphalt concrete; cold planing; reconstructing weakened pavement areas; repairing damaged sidewalk; upgrading drainage facilities; adjusting manhole and valve box frame and cover; installing guardrail; pedestrian railing work; and installing loop detector, pavement marking and sign.

2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.

3. The Contractor's attention is directed to the following Sections: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.

4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for seperately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

6. The Contractor shall notify, the Oahu Transit Services, Lowell Tom (848-4578) or Ed Sniffen (848-4571), two (2) weeks prior to construction, informing them of location, scope of work, and closure of Name of Highway and/or traffic lanes and dates of closure. (For Oahu projects only. For other islands, check with your local bus company.)

7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.

8. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered inidental to the various contract items and will not be paid for seperately.

9. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.

10. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to any culvert work or the various contract items and will not be paid for seperately.

11. Earth swale shall be graded to drain. This work shall be considered incidental to various contract items.

12. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to asphalt concrete and will not be paid for seperately.

13. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This includes any slurry or waste generated by the cutting operations. This work shall be considered incidental to bulk of work or the various contract items and will not be paid for seperately.

14. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to their respective bid items.

15. All saw cutting work including slurry or waste generated by cutting operation shall be considered incidental to Roadway Excavation or Asphalt Concrete or Various Contract Items or their respective bid items.

16. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.

17. The top of the Plant Mix Glassphalt Concrete Base Course prior to placement of the new A.C. Pavement, Mix No. IV shall comply with the ten-foot straight edge requirement. The variation of the surface from a straight edge with two contacts with the surface, shall not exceed 3/16."

18. Concrete sidewalk shall be reinforced with 6x6 W1.4xW1.4 welded wire fabric.

19. Dressing of sidewalk shall consist of clearing and grubbing, grading, reshaping and compacting with suitable material the area adjacent to the improvement as shown on the plans and/or as directed by the Engineer and shall be considered incidental to Sidewalk.

20. All curbing angle points within the curb ramps shall be rounded with R=6."

21. New Shoulder/Sidewalk adjacent to the New Bike Lane shall be paid for under their respective bid items. New Asphalt Concrete Sidewalk shall be paid for under Item No. 635.0100 - Hot Mix Asphalt Sidewalks.

22. The Contractor shall provide and maintain for access to and from all existing driveways , sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for seperately.

23. The Contractor shall provide and maintain a temporary pedestrian-safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved at least an inch of Asphalt Concrete Pavement, Mix No V or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.]. This work shall be incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for seperately.

24. Provide smooth transition where new sidewalk construction meets the existing grade or sidewalk. Transition shall not be steeper than 2% cross and longitudinal slopes and not less 6.0 feet long or as specified on the plans. This work shall be considered incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for seperately.

25. The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for seperately.

26. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at telephone no. 831-6712.

27. The exact locations and limits or areas to be reconstructed and cold planed shall be determined in the field by the Engineer.

28. All cold planed and excess materials not used for this project shall become the property of the Contractor. If disposed of, it shall be in accordance with the Environmental Protection Agency's policies and guidelines. This work shall be considered incidental to the various contract items and will not be paid for separately.

29. The Contractor shall coordinate with property owners about trimming existing tree and/or shrubberies fronting their properties. This work shall not be paid for separately but shall be considered incidental to landscape maintenance item.

30. Construct asphalt concrete surface at new guardrail installation according to Guardrail Details and Notes plan sheet.

31. All work specified in the contract but not listed separately in the Proposal Schedule, shall be considered incidental to other various contract items and shall not be paid for separately.

32. The Contractor shall maintain all street lights within the project limits at no cost to the State. All street lights shall be operating within 24 hours of discovery of a malfunction.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

KANEOHE BAY DRIVE REHABILITATION

Kamehameha Highway to Nanamoana Street

Project No. 65AB-01-04M

Date: July, 2008

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	4	X

THE GAS COMPANY CONSTRUCTION NOTES

1. The Gas Company gas pipelines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipelines.
2. Written clearances must be obtained from The Gas Company, Maps and Records Department, 515 Kamakee Street, at least five (5) working days prior to starting excavation near these gas pipelines.
3. Since gas line locations on field maps are approximate, the Contractor, after obtaining written clearance, shall call USA North a minimum of two (2) working days before starting excavation to arrange for field location of the existing gas pipelines. The telephone number is 1-800-227-2600.
4. The Contractor shall excavate and backfill around gas pipelines in the presence of a representative of The Gas Company. All backfill within six inches of any gas pipeline shall be select cushion material approved by The Gas Company.
5. For relocation of any gas pipeline, the Contractor shall notify The Gas Company five (5) working days before starting work. The telephone number is 594-5574. The Contractor shall provide the necessary excavation and backfill, obtain traffic permits, and restore pavement, sidewalks, and other facilities. Any relocation of gas facilities shall be done by The Gas Company and paid for by the Contractor.
6. The Contractor shall notify The Gas Company immediately after any damage has been caused to existing gas pipelines, coatings, or its cathodic protection devices. The telephone number is 535-5933, 24 hours a day. The Contractor shall be liable for any damage to The Gas Company facilities. Repair work on such damage shall be done by The Gas Company with payment for this work to be borne by the Contractor.
7. Minimum vertical and horizontal clearance between the gas pipelines and other pipelines, conduits, ductlines, or other facilities shall be 12 inches. Adequate support and protection for gas pipelines exposed in the trench shall be provided by the Contractor and approved by The Gas Company.
8. The Contractor shall work in an expeditious manner in order to keep the uncovered gas pipelines exposed for as short a period of time as possible.

DRAINAGE NOTES:

1. Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various Contract Items.
2. The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
3. For added reinforcing around culverts at new drainage structures, see Standard Plan H-04.
4. Chamfer all exposed concrete edges 1".
5. Grading around Type "1211216P" GDI shall not be paid for separately, but shall be considered incidental to Type "1211216P" GDI.

PAVING AROUND MANHOLES/VALVE BOXES:

1. The Contractor shall place hot asphalt concrete around manholes/valve boxes and compact properly with a vibrating plate compactor.
2. If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around manholes/valve boxes which are not rolled by the steel roller.
3. Work paving around manholes/valve boxes in the travelway will be considered incidental to asphalt concrete item and will not be paid separately.

LEGEND

- 7" Cold Planing
- Reconstruction Areas
- Resurfacing & Cold Planing Limits
- —e— Existing Electrical Line
- ○ep Existing Joint Pole
- ○pp Existing Power Pole
- ○emh Existing Electric Manhole
- ▫ecopb Existing Electric Pullbox
- —t— Existing Telephone Line
- ○tp Existing Telephone Pole
- ○tmh Existing Telephone Manhole
- —sc— Existing Signal Corps Line
- —tv— Existing TV Cable
- —w—12— Existing 12" Water Line
- ○wmh Existing Water Manhole
- ◉WMH Adjusted Water MH Frame/Cover
- ○av Existing Water Air Valve
- ◉AV Adjusted Water Air Valve
- ●AV New Water Air Valve
- ○wv Existing Water Valve Box
- ◉WV Adjusted Water Valve Box
- ▫wm Existing Water Meter
- ▪WM Adjusted Water Meter
- ⊹fh Existing Fire Hydrant
- —s—12— Existing Sewer Line
- ○smh Existing Sewer Manhole
- ◉SMH Adjusted Sewer MH Frame/Cover
- —g—6— Existing 6" Gas Line
- ○gv Existing Gas Valve Box
- ◉GV Adjusted Gas Valve Box
- ○gmh Existing Gas Manhole
- ◉GMH Adjusted Gas MH Frame/Cover
- ⊙mon. Existing Monument
- ◉MON. Adjusted Monument
- ---d--24--- Existing 24" Drain Line
- 24" RCP New 24 " RCP Drain Line
- ○sdmh Existing Storm Drain Manhole
- ◉SDMH Adjusted Storm Drain MH Frame/Cover
- ⊟gdi Existing Grated Drop Inlet
- cb Existing Catch Basin
- ⊳ Existing Traffic Sign
- ○sl Existing Highway Lighting Standard
- ○tsp Existing Traffic Signal Pole
- ▫tspb Existing Traffic Signal Pullbox
- Existing Metal Guardrail
- New Metal Guardrail
- Existing Tree
- —x—x— Existing Fence

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE	1-18-05
	SURVEY BY	DATE	1-18-05
	TRACED BY		
NOTE BOOK	DESIGNED BY		
dd1ahk3.tsm	QUANTITIES BY		
No. 72000102	CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M
Date: April, 2005

SHEET No. 2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	4	0

WATER POLLUTION AND EROSION CONTROL NOTES:

A. GENERAL:

1. See Section 209 - Temporary Water Pollution, Dust, and Erosion Control. Section 209 describes but is not limited to: submittal requirements; scheduling of a water pollution and erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment.
2. Effective October 1, 2008, follow the guidelines in the "Construction Best Management Practices Field Manual", dated January 2008 in developing, installing and maintaining the Best Management Practices (BMP) for the project.
3. Follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
4. The Engineer may assess liquidated damages of up to $27,500 for non-compliance of each BMP requirement and each requirement stated in Section 209, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
5. The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.
6. For projects that require an NPDES Permit from the Department of Health, install a rain gauge prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall, and have an opening of at least one-inch in diameter. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.

B. WASTE DISPOSAL:

1. Waste Materials
   Collect and store all waste materials in a securely lidded metal dumpster. The dumpster shall meet all local and State solid waste management regulations. Deposit all trash and construction debris from the site in the dumpster. Empty the dumpster a minimum of twice per week or as often as is deemed necessary. Do not bury construction waste materials onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Post notices stating these practices in the office trailer and the Contractor shall be responsible for seeing that these procedures are followed.
2. Hazardous Waste
   Dispose all hazardous waste materials in the manner specified by local or State regulations and by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.
3. Sanitary Waste
   Collect all sanitary waste from the portable units a minimum of once per week, or as required.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

1. Inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.5 inches or greater within a 24 hour period.
2. Maintain all measures in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
3. Remove built-up sediment from silt fence when it has reached one-third the height of the fence.
4. Inspect silt screen or fence for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground. Inspect and verify the bottom of the silt screen is buried a minimum of 6 inches below the existing ground.
5. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
6. Make a maintenance inspection report promptly after each inspection. Submit a copy to the Engineer no later than one week from the date of the inspection.
7. Provide a stabilized construction entrance to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold planed materials, dirt or rock tracked from the site. Cover dump trucks hauling material from the construction site with a tarpaulin.
8. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
9. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
10. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.
11. Contain, remove, and dispose slurry generated from saw cutting of pavement in accordance with approved BMP practices. Payment for confinement, removal, and disposal of slurry shall be considered incidental to the various contract items.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

1. Materials Pollution Prevention Plan

   a. Applicable materials or substances listed below are expected to be present onsite during construction. Other materials and substances not listed below shall be added to the inventory.

Concrete	Fertilizers
Detergents	Petroleum Based Products
Paints (enamel and latex)	Cleaning Solvents
Metal Studs	Wood
Tar	Masonry Block

   b. Use Material Management Practices to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff. Make an effort to store only enough product as is required to do the job.

   c. Store all materials stored onsite in a neat, orderly manner in their appropriate containers and if possible under a roof or other enclosure.

   d. Keep products in their original containers with the original manufacturer's label.

   e. Do not mix substances with one another unless recommended by the manufacturer.

   f. Whenever possible, use a product up completely before disposing of the container.

   g. Follow manufacturer's recommendations for proper use and disposal.

   h. Conduct a daily inspection to ensure proper use and disposal of materials onsite.

2. Hazardous Material Pollution Prevention Plan

   a. Keep products in original containers unless they are not resealable.

   b. Retain original labels and material safety data sheets (MSDS).

   c. Dispose of surplus products according to manufacturers' instructions and local and State regulations.

REDUCED PLAN
(HALF SIZE)
0 1 2 3
3 INCHES OF ORIGINAL PLAN

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE 7/2/09
NOTE BOOK
No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER POLLUTION & EROSION CONTROL NOTES

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Hwy. to Nanamoana St.
Project No.: 65AB-01-04M

Date: July, 2010

SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	5	0

WATER POLLUTION AND EROSION CONTROL NOTES: -Cont.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES: -Cont.

3. Onsite and Offsite Product Specific Plan

The following product specific practices shall be followed onsite:

a. Petroleum Based Products:
Monitor all onsite vehicles for leaks and perform regular preventive maintenance to reduce the chance of leakage. Store petroleum products in tightly sealed containers which are clearly labeled. Apply asphalt substances used onsite according to the manufacturer's recommendation.

b. Fertilizers:
Apply fertilizers used only in the minimum amounts recommended by the manufacturer. Once applied, work fertilizer into the soil to limit exposure to storm water. Storage shall be in a covered shed. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

c. Paints:
Seal and store all containers when not required for use. Do not discharge excess paint to the highway drainage system. Dispose properly according to manufacturers' instructions or State and local regulations.

d. Concrete Trucks:
Wash out or discharge concrete truck drum wash water only at a designated site. Do not discharge water in the highway drainage system or waters of the United States. Contact Drinking Water Branch, Department of Health at 586-4258 to receive permission to designate a disposal site. Clean disposal site as required or as requested by the Owner's representative.

4. Spill Control Plan

a. Post a spill prevention plan to include measures to prevent and clean up each spill.

b. The Contractor shall be the spill prevention and cleanup coordinator. Designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. Post the names of responsible spill personnel in the material storage area and in the office trailer onsite.

c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.

d. Keep materials and equipment necessary for spill cleanup in the material storage area onsite.

e. Clean up all spills immediately after discovery.

f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.

g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size.

E. PERMIT REQUIREMENTS:

1. If a National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities of one acre or more, submit to the Engineer six sets of the Water Pollution and Erosion Control Submittals as detailed in Subsection 209.03 of the specifications.

2. If an NPDES Permit for Construction Dewatering is required, the Contractor shall be responsible to obtain the Permit from the Department of Health, Clean Water Branch.

3. Comply with all applicable State and Federal Permit conditions. Permits may include but are not limited to the following:

a. NPDES Permit for Construction Activities

ORIGINAL PLAN
SURVEY PLOTTED BY ____ DATE 7/1/10
DRAWN BY X
TRACED BY ____
DESIGNED BY X
QUANTITIES BY ____
CHECKED BY ____
NOTE BOOK ____
PAGE NO. ____

REDUCED PLAN
(HALF SIZE)
0 1 2 3
3 INCHES OF ORIGINAL PLAN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

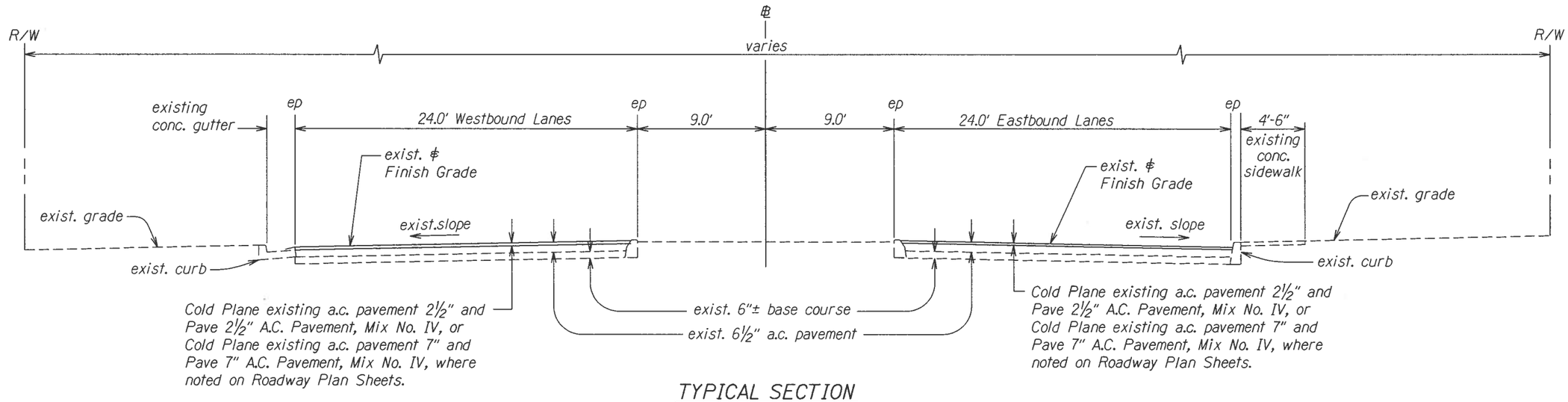
WATER POLLUTION & EROSION CONTROL NOTES

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Hwy. to Nanamoana St.
Project No.: 65AB-01-04M

Date: July, 2010

SHEET No. 2 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	5	X



TYPICAL SECTION
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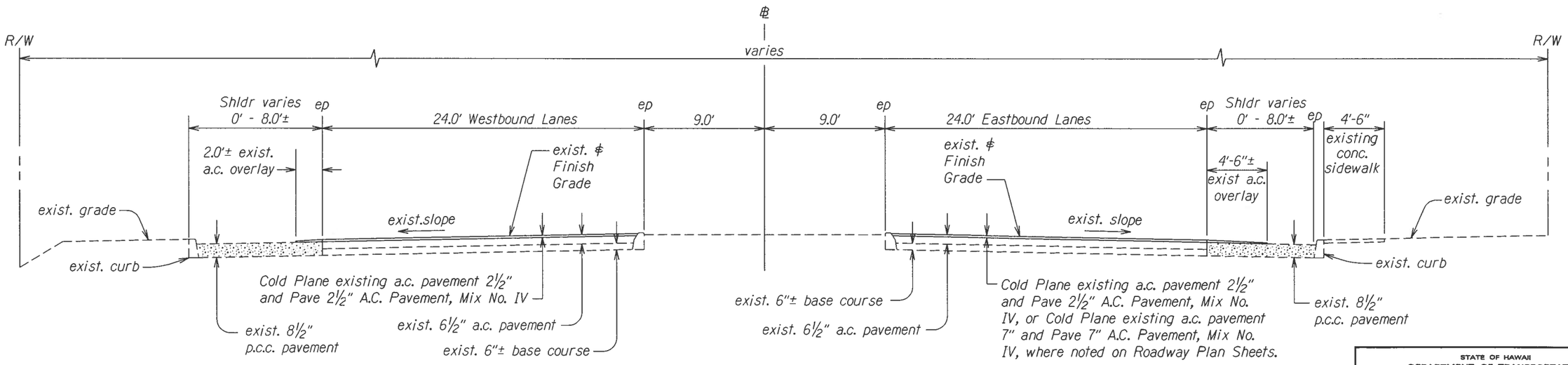

TYPICAL SECTION
℄ Sta. 16+00 to ℄ Sta. 22+80
Scale: ¼"=1'-0"

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NOTE BOOK dtl	DESIGNED BY	
	QUANTITIES BY	
No. Landed	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

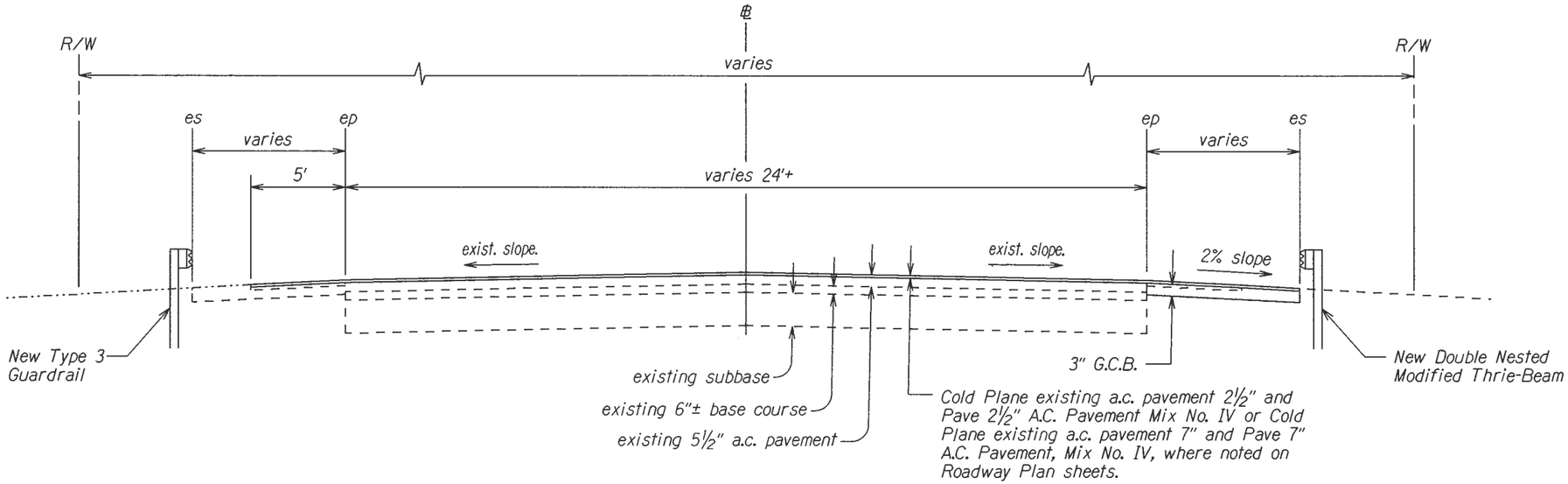
TYPICAL SECTION

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: ¼" = 1'-0" Date: April, 2005

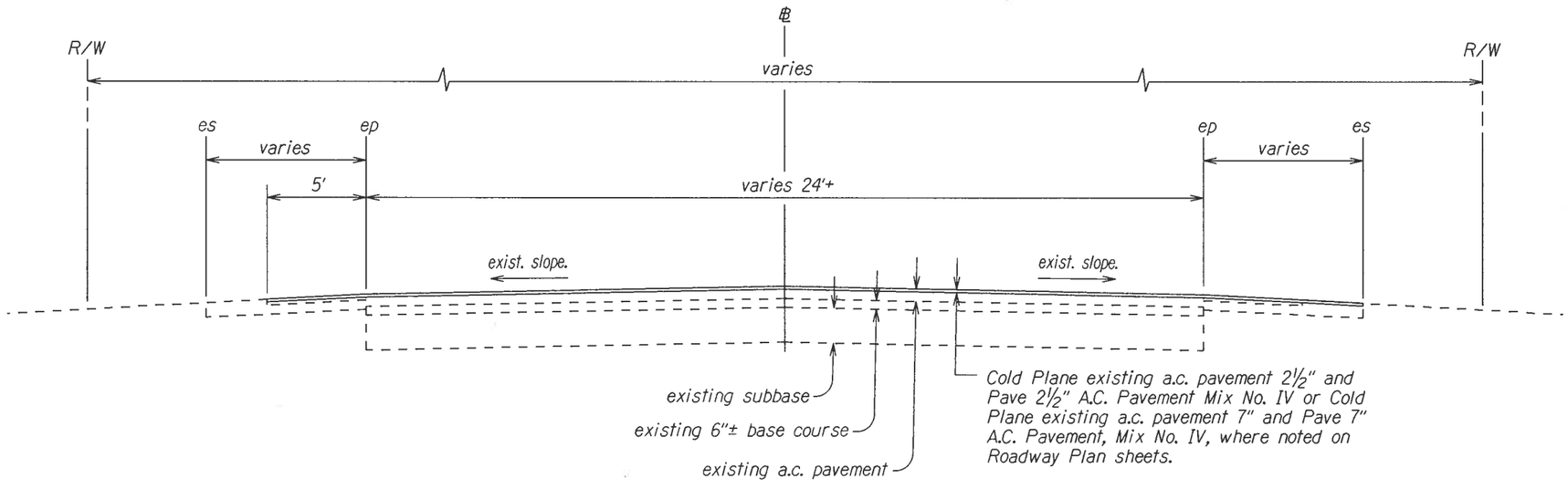
SHEET No. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	6	X



TYPICAL SECTION
℄ STA. 35+27.70± TO ℄ STA. 36+20±

Scale: ¼"=1'-0"



TYPICAL SECTION
℄ STA. 36+20± TO ℄ STA. 46+00±
℄ STA. 86+20± TO ℄ STA. 91+00±

Scale: ¼"=1'-0"

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE
NOTE BOOK
N. Hanifah

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

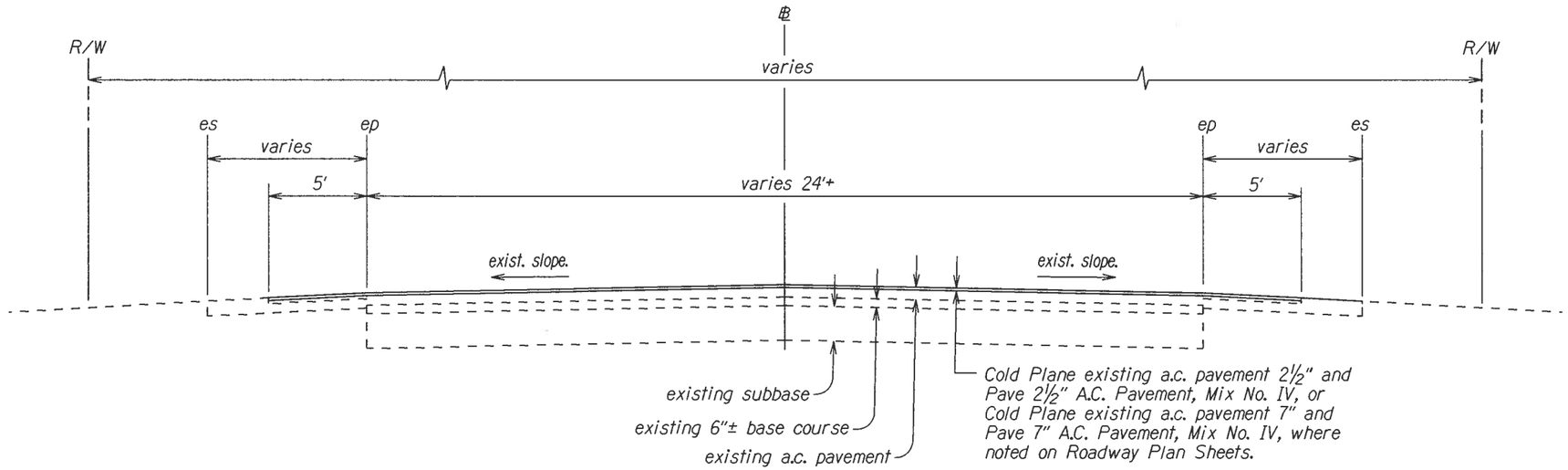
TYPICAL SECTION

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: ¼" = 1'-0" Date: May, 2008

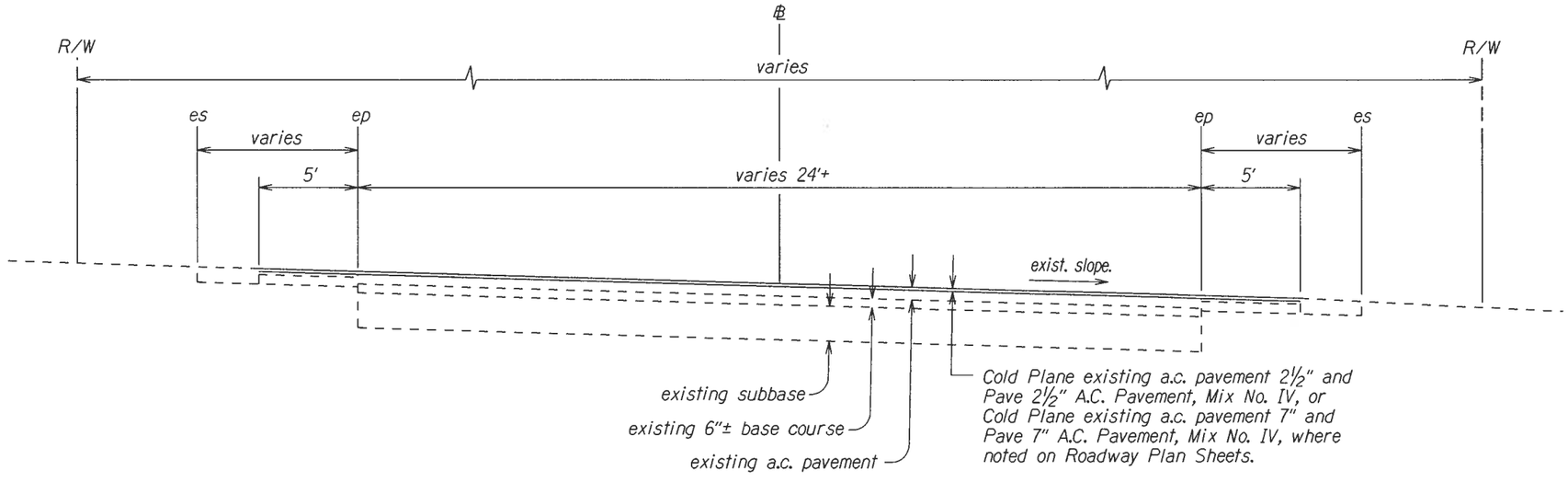
SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	7	X



TYPICAL SECTION
STA. 46+00± TO STA. 59+00±
STA. 67+00± TO STA. 68+00±
STA. 77+50± TO STA. 82+00±

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



TYPICAL SUPERELEVATED SECTION
STA. 59+00± TO STA. 67+00±
STA. 68+00± TO STA. 77+50±
STA. 82+00± TO STA. 86+20±

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

ORIGINAL PLAN
SURVEY PLOTTED BY _____ DATE
DRAWN BY _____ .
TRACED BY _____ .
DESIGNED BY _____ .
QUANTITIES BY _____ .
CHECKED BY _____ .
NOTE BOOK dtd
No. Submitted

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

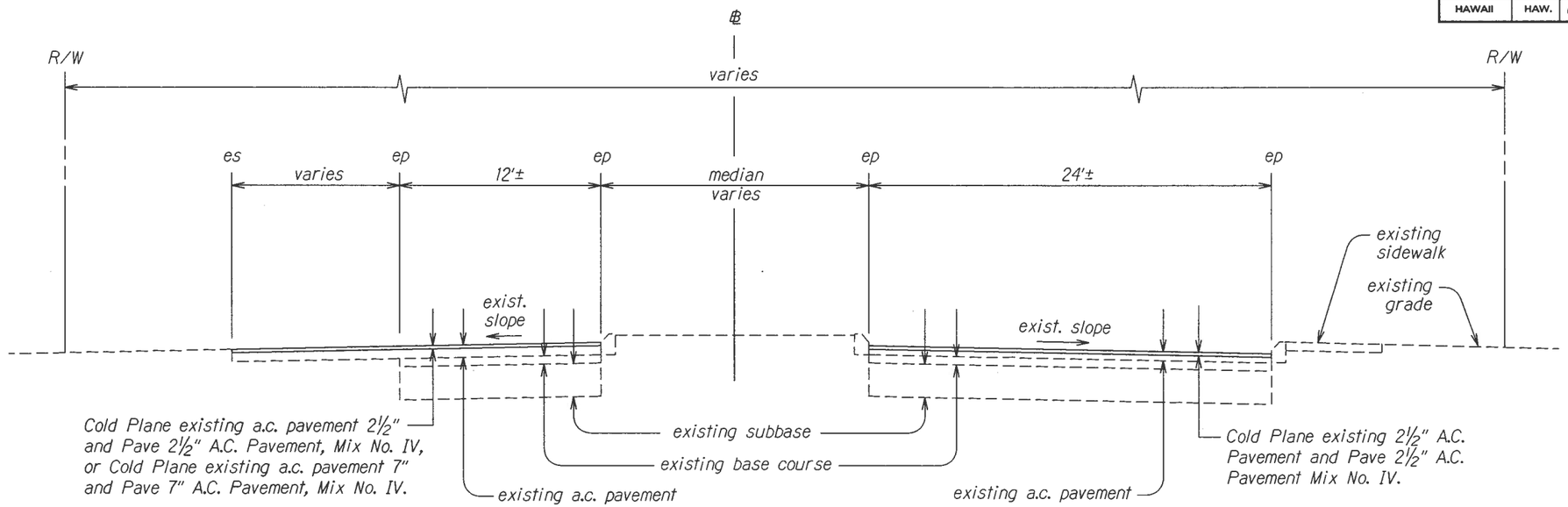
TYPICAL SECTION

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

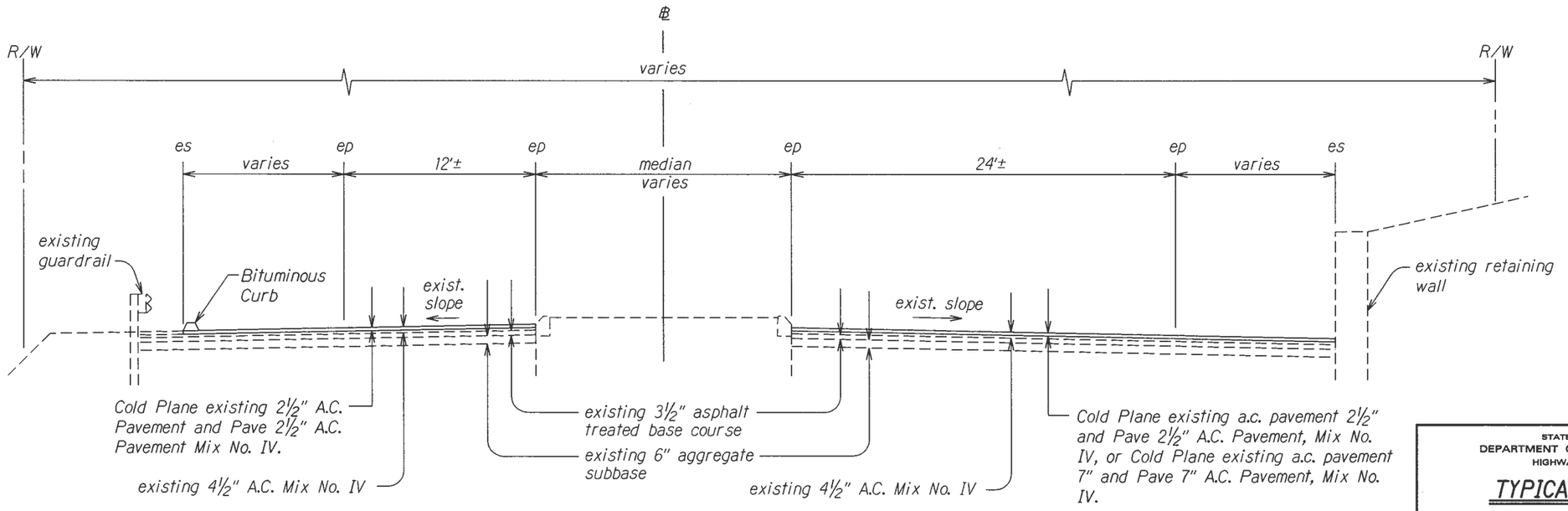
Scale: 1/4" = 1'-0" Date: July, 2008

SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	8	X



TYPICAL SECTION
℄ STA. 91+00± TO ℄ STA. 3+00±
Scale: ¼"=1'-0"



TYPICAL SECTION
℄ STA. 3+00± TO ℄ STA. 10+96±
Scale: ¼"=1'-0"

ORIGINAL PLAN
SURVEY PLOTTED BY ____ DATE
DRAWN BY ____ . . . . .
TRACED BY ____ . . . . .
DESIGNED BY ____ . . . . .
NOTE BOOK ____ dtl
QUANTITIES BY ____ 5/14/08
CHECKED BY ____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

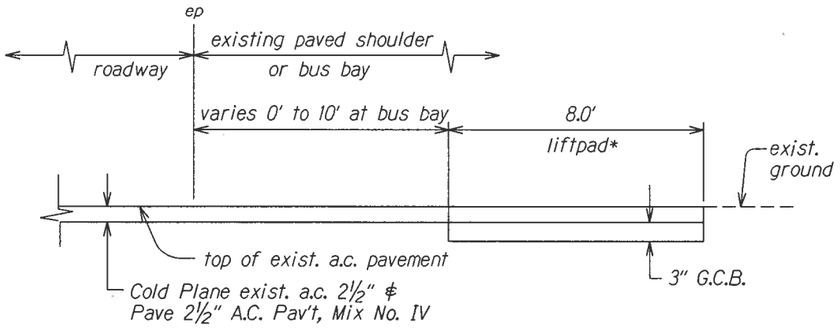
TYPICAL SECTION

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: ¼" = 1'-0" Date: May, 2008

SHEET No. 4 OF 5 SHEETS

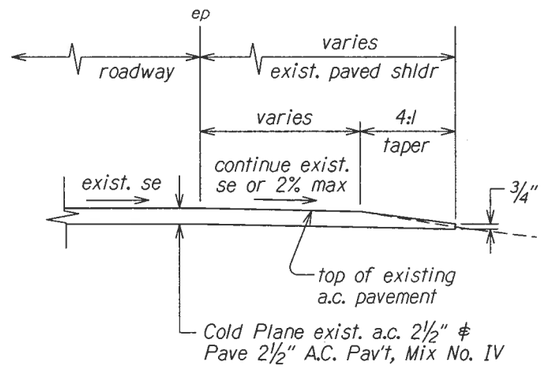
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	9	00



* Liftpad 8.0' x 5.0' @ bus bay

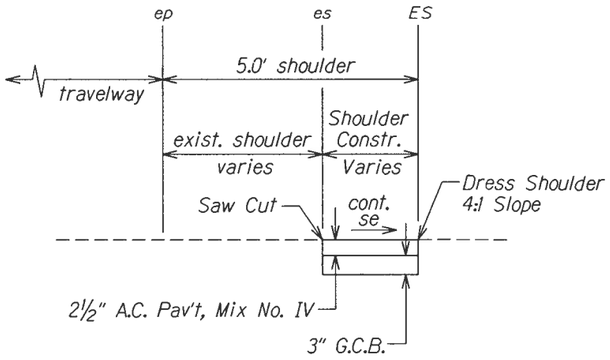
TYPICAL SECTION AT BUS BAYS

Scale: N.T.S.



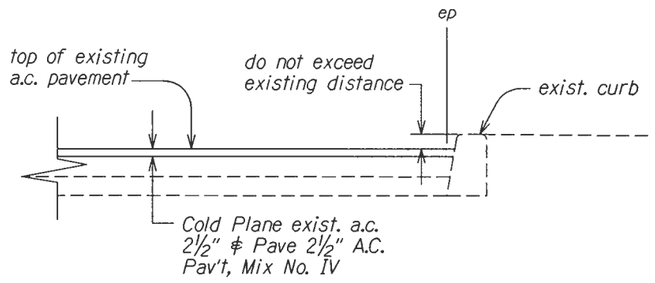
TYPICAL SECTION AT EXISTING PAVED SHOULDERS ℄ STA. 35+27.70± TO ℄ STA. 40+20±

Scale: N.T.S.



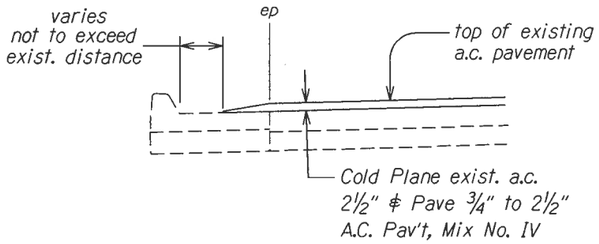
TYPICAL SECTION SHOULDER CONSTRUCTION

Scale: N.T.S.



TYPICAL UNDIVIDED SECTION

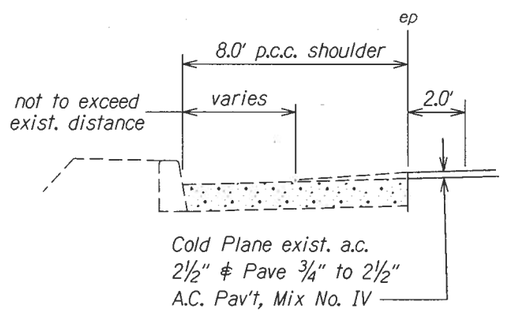
Scale: N.T.S.



Note: Where pedestrian ramps occur, provide smooth pavement transition. Maximum slope of adjoining gutter and/or road surface immediately fronting curb ramp shall not exceed 5% for type A, D ∉ combination ramp and 8.33% for type B, C ∉ E ramp.

TYPICAL SECTION AC PAVEMENT @ CURB ∉ GUTTER

Scale: N.T.S.



TYPICAL SECTION AC PAVEMENT @ 8' CONC. SHLDR

Scale: N.T.S.

ORIGINAL PLANS	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK dd1ts05	DESIGNED BY	
N:\Standards\05	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

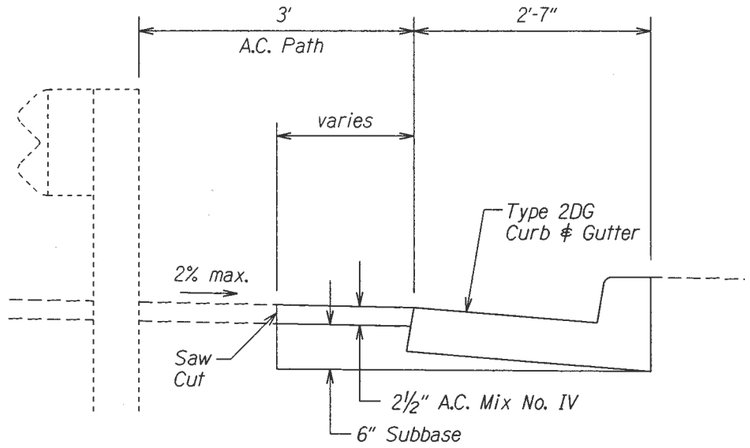
TYPICAL SECTION

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: NTS Date: September, 2005

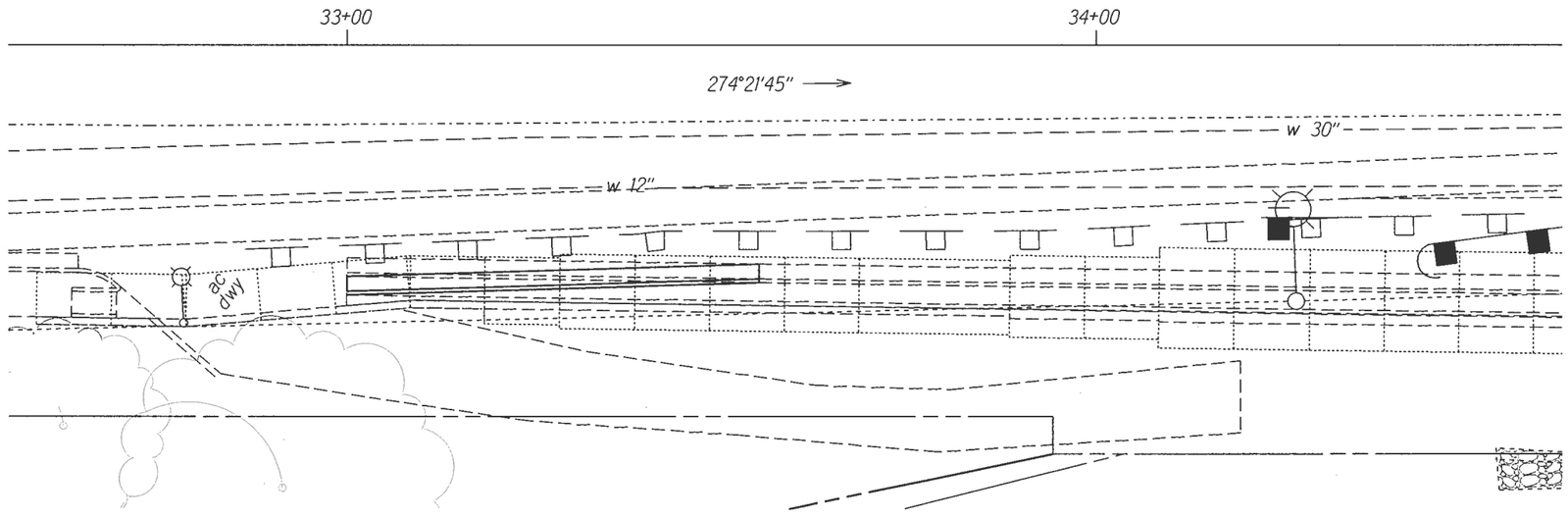
SHEET No. 5 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	0	0



TYPICAL SECTION

Scale: NTS



℄ Sta. 33+00± to ℄ Sta. 33+55± Rt.

Remove existing curb and gutter. Construct New Type 2DG Curb and Gutter, and A.C. Path.

PLAN
CURB AND GUTTER ADJUSTMENT

Scale: 1"=10'

TRUE NORTH
SCALE : 1" = 10'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK See detail sheet	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS

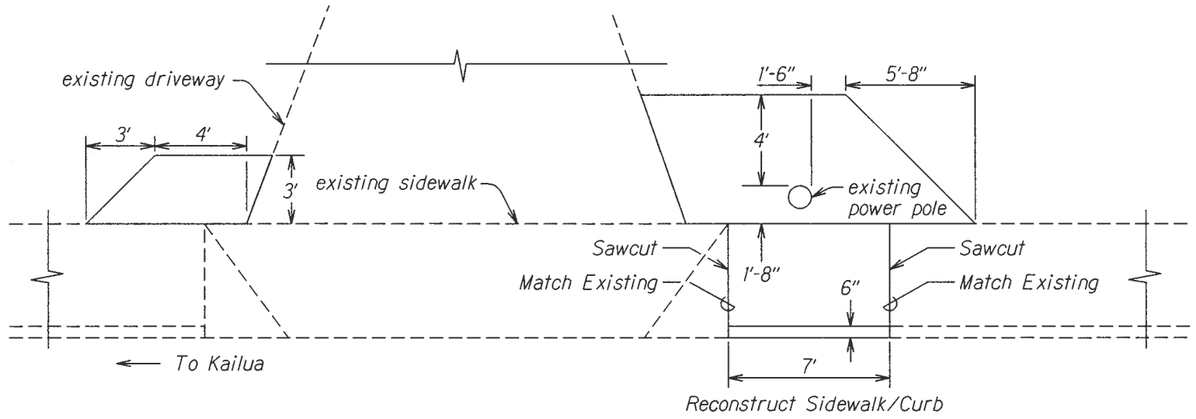
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: As Noted Date: July, 2008

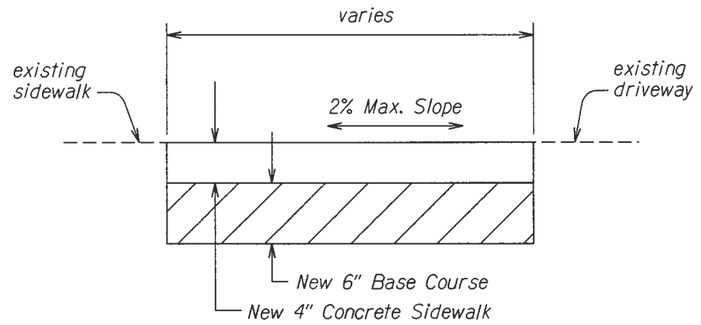
SHEET No. X OF X SHEETS

00

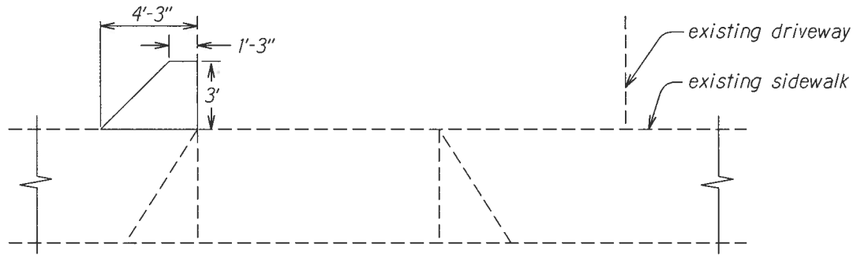
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	20xx	0	0



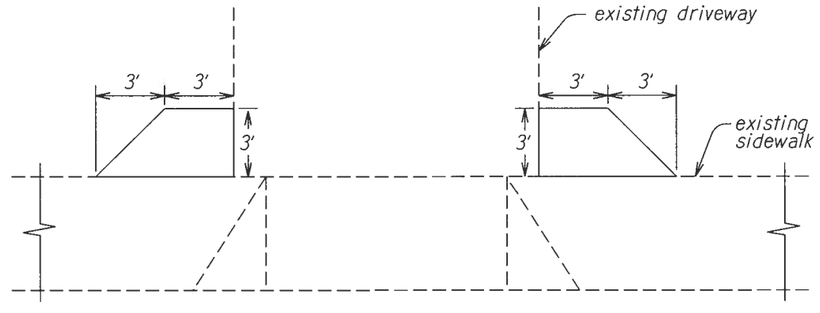
PLAN
℄ STA. 6+24± to ℄ STA. 6+84± RT.
Scale: NTS



TYPICAL EXTENSION DETAIL
Scale: NTS



PLAN
℄ STA. 10+80± RT.
Scale: NTS



PLAN
℄ STA. 11+28± TO ℄ STA. 11+56± RT.
Scale: NTS

APRON OFFSET SIDEWALK EXTENSION DETAIL

ORIGINAL PLAN
SURVEY PLOTTED BY _____ DATE
DRAWN BY _____
TRACED BY _____
NOTES BOOK _____
DESIGNED BY _____
QUANTITIES BY _____
CHECKED BY _____
No. _____ date/sign

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

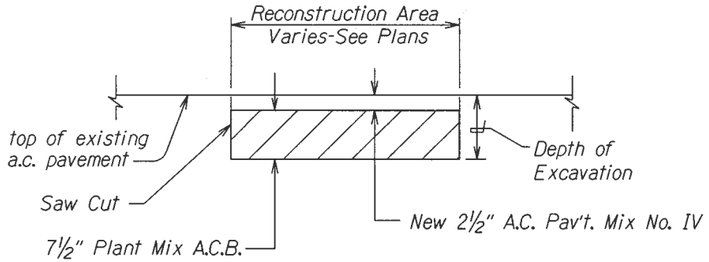
DETAILS

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

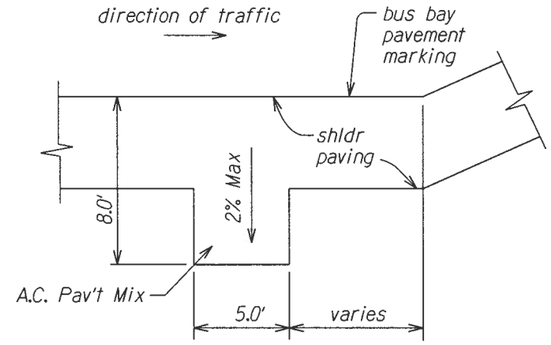
Scale: NTS Date: December, 2008

SHEET No. X OF X SHEETS

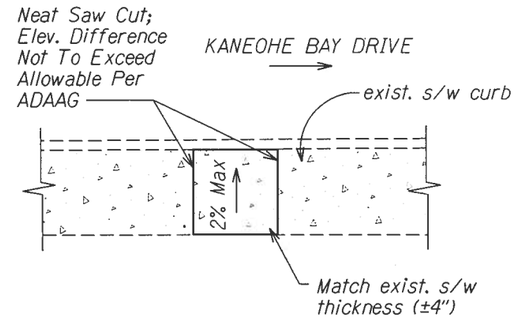
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	00	00



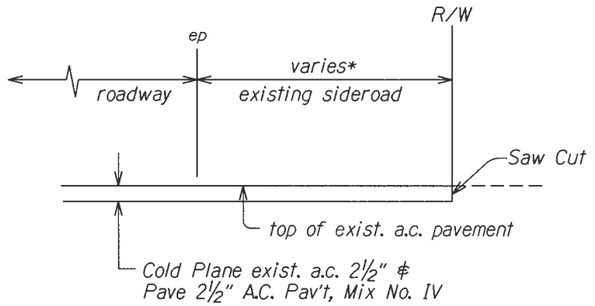
A.C. PAVEMENT RECONSTRUCTION DETAIL
Scale: N.T.S.



BUS BAY LIFT PAD DETAIL
Scale: N.T.S.

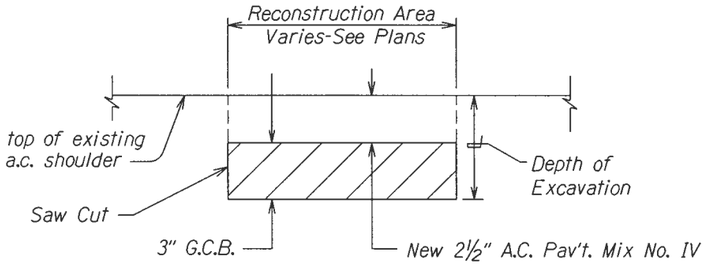


SIDEWALK RECONSTRUCTION DETAIL
Scale: N.T.S.

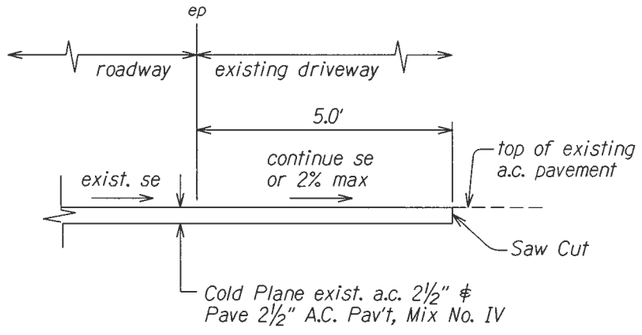


* At sideroads this dimension shall be 40' max.

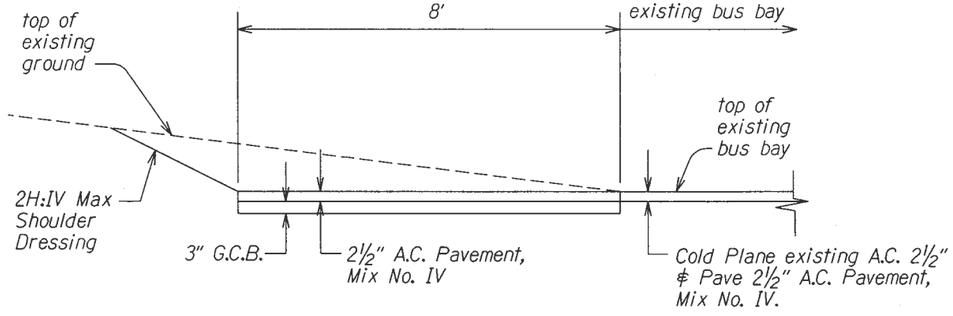
DETAIL OF PAVING AT PAVED SIDEROADS
Scale: N.T.S.



A.C. SHOULDER RECONSTRUCTION DETAIL
Scale: N.T.S.



DETAIL OF PAVING AT EXISTING PAVED DRIVEWAYS
Scale: N.T.S.



TYPICAL SHOULDER CONSTRUCTION
℄ STA. 67+40± TO ℄ STA. 68+05± LT.
Scale: N.T.S.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
Skandis04a	QUANTITIES BY	
No.	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: NTS Date: September, 2005

SHEET No. 4 OF 4 SHEETS

00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X

KANEOHE BAY DRIVE
℄ STA 1+39.74 (FAP S-230(1))
KAMEHAMEHA HIGHWAY
NORTH BOUND
℄ STA 39+06.83 (FAP 15(4))
LIKELIKE HIGHWAY
℄ STA 131+18.44 (FAP S-0630(5))

BEGIN PROJECT
Project No. 65AB-01-04M
℄ Sta. 2+90±

℄ CURVE DATA
Δ = 42° 52'
R = 500.00
T = 196.28
C = 365.42
L_C = 374.08

℄ P.C. Sta. 2 + 50.40
R = 500.00
13° 15' 45"

℄ P.T. Sta. 6 + 24.48
R = 500.00
330° 23' 45"

TRUE NORTH
SCALE : 1" = 40'

10' Reconstruct Curb

To Likelike Hwy

To Kailua

M.L. ℄ STA. 12+00

Windward City Center

Install Detectable Warning Mats

4' Reconstruct Curb

T.M.K.: 4-5-60:61

T.M.K.: 4-5-60 :64

Lot A-2 | Lot 60 | Lot 15-B | Lot 15-A | Lot 15 | Lot 14 | Lot 62 | Lot 17 | Lot 18

TRUE NORTH
SCALE : 1" = 40'

M.L. ℄ STA. 12+00

M.L. ℄ STA. 18+00

Lot 13 | Lot 12 | Lot 11 | Lot 10 | Lot 9 | Lot 8 | Lot 7 | Lot 6

20'x10'

20'x4'

grass median

℄ Sta. 17+12± to ℄ Sta. 18+63± Lt.
Saw cut, remove and dispose of existing sidewalk and driveways. Construct New Concrete Sidewalk and Driveways. For Details, see Plan Sheet No. _____ .

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

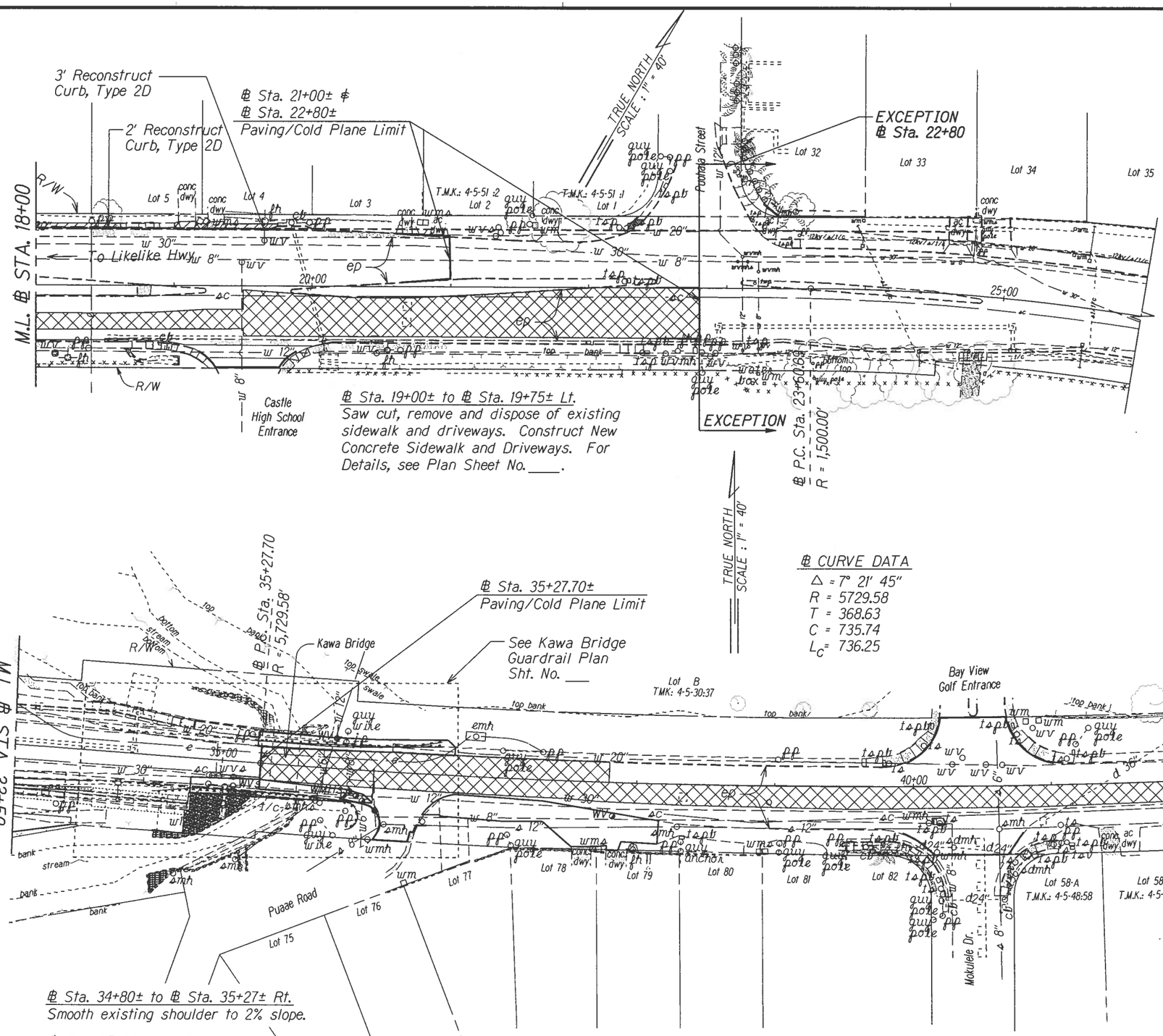
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: 1" = 40' Date: December, 2008

SHEET No. 1 OF 6 SHEETS

00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	00	00



ORIGINAL PLAN
SURVEY PLOTTED BY ____ DATE
DRAWN BY ____
TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____
NOTE: If Bore Data not shown, Soil Boring Information Not Available

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KANEOHE BAY DRIVE REHABILITATION

Kamehameha Highway to Nanamoana Street

Project No. 65AB-01-04M

Scale: 1" = 40' Date: December, 2008

SHEET No. 2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X

TRUE NORTH
SCALE : 1" = 40'

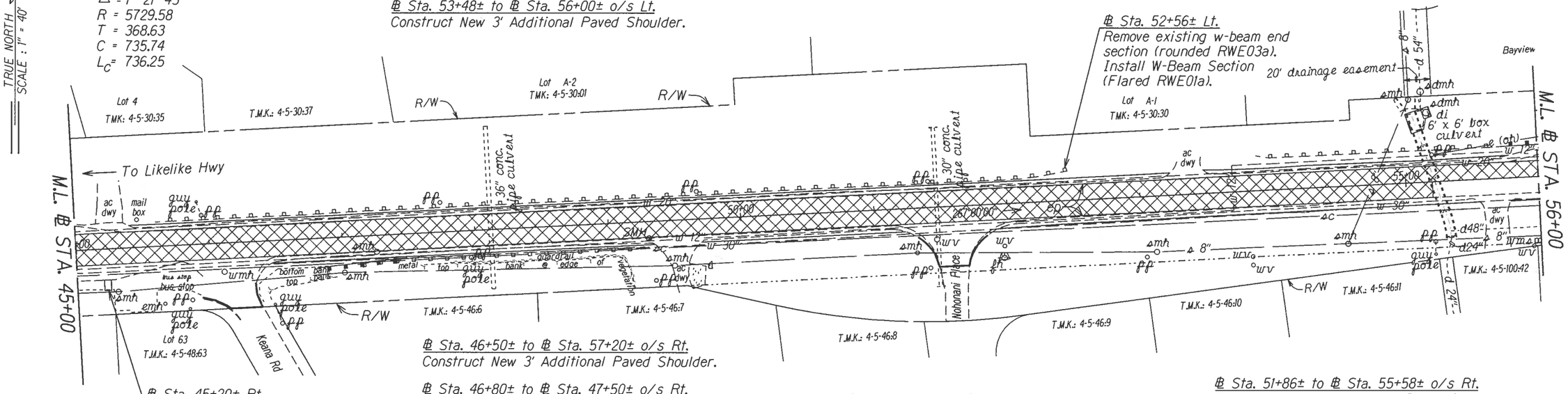
℄ CURVE DATA
△ = 7° 21' 45"
R = 5729.58
T = 368.63
C = 735.74
L_C = 736.25

℄ Sta. 45+00± to ℄ Sta. 56+24± o/s Lt.
Construct New 3' Additional Paved Shoulder.

℄ Sta. 53+48± to ℄ Sta. 56+00± o/s Lt.
Construct New 3' Additional Paved Shoulder.

℄ Sta. 55+80± to ℄ Sta. 56+20± o/s Lt.
Remove existing guardrail end treatment.
Install Fleat 350.

℄ Sta. 52+56± Lt.
Remove existing w-beam end section (rounded RWE03a).
Install W-Beam Section (Flared RWE01a).



℄ Sta. 45+20± Rt.
Construct 5'x8' Bus Bay Lift Pad.

℄ Sta. 46+50± to ℄ Sta. 57+20± o/s Rt.
Construct New 3' Additional Paved Shoulder.

℄ Sta. 46+80± to ℄ Sta. 47+50± o/s Rt.
Remove existing guardrail end treatment.
Install Modified Type "A" Flare and Type 3 Guardrail.

℄ Sta. 49+66± to ℄ Sta. 51+34± o/s Rt.
Construct New 3' Additional Paved Shoulder.

℄ Sta. 51+86± to ℄ Sta. 55+58± o/s Rt.
Construct New 3' Additional Paved Shoulder.

℄ Sta. 58+60± to ℄ Sta. 66+80± o/s Lt.
Construct New 3' Additional Paved Shoulder.

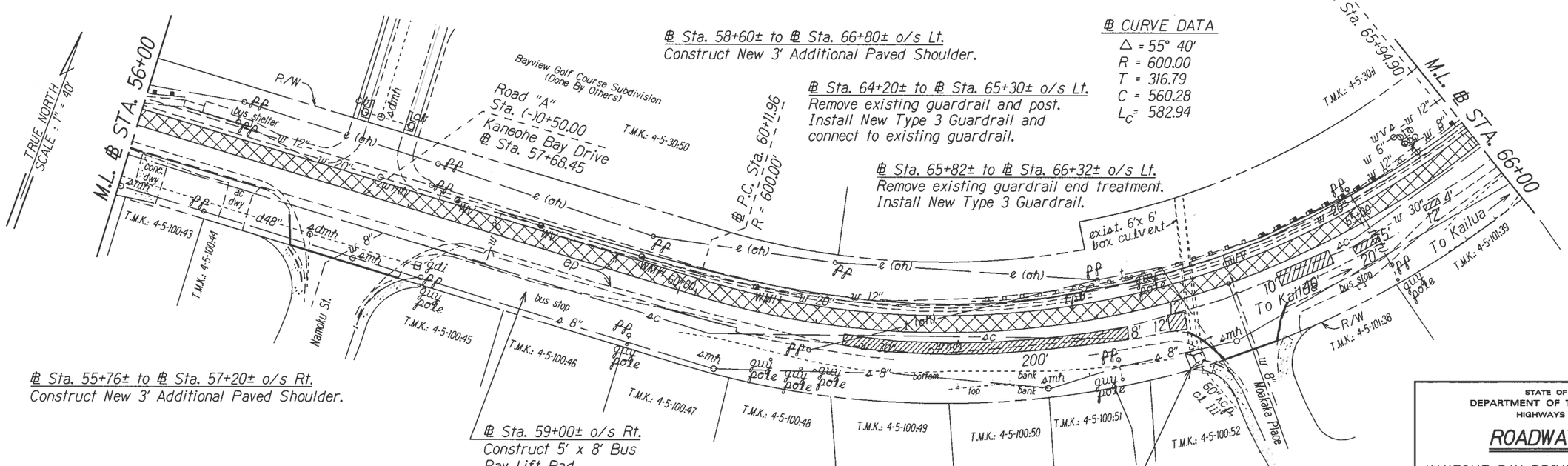
℄ Sta. 64+20± to ℄ Sta. 65+30± o/s Lt.
Remove existing guardrail and post.
Install New Type 3 Guardrail and connect to existing guardrail.

℄ Sta. 65+82± to ℄ Sta. 66+32± o/s Lt.
Remove existing guardrail end treatment.
Install New Type 3 Guardrail.

℄ CURVE DATA
△ = 55° 40'
R = 600.00
T = 316.79
C = 560.28
L_C = 582.94

℄ P.C. Sta. 60+11.96
R = 600.00'

℄ P.T. Sta. 65+94.90



℄ Sta. 55+76± to ℄ Sta. 57+20± o/s Rt.
Construct New 3' Additional Paved Shoulder.

℄ Sta. 59+00± o/s Rt.
Construct 5' x 8' Bus Bay Lift Pad.

℄ Sta. 59+85± to ℄ Sta. 60+50± o/s Rt.
Construct 2' Additional Paved Shoulder.

℄ Sta. 63+62± o/s Rt.
Type 121214P GDI.

ORIGINAL PLAN
SURVEY PLOTTED BY ..... DATE
DRAWN BY .....
TRACED BY .....
DESIGNED BY .....
NOTE BOOK dgf
N:\Kano\03 QUANTITIES BY .....
CHECKED BY .....

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: 1" = 40' Date: December, 2008

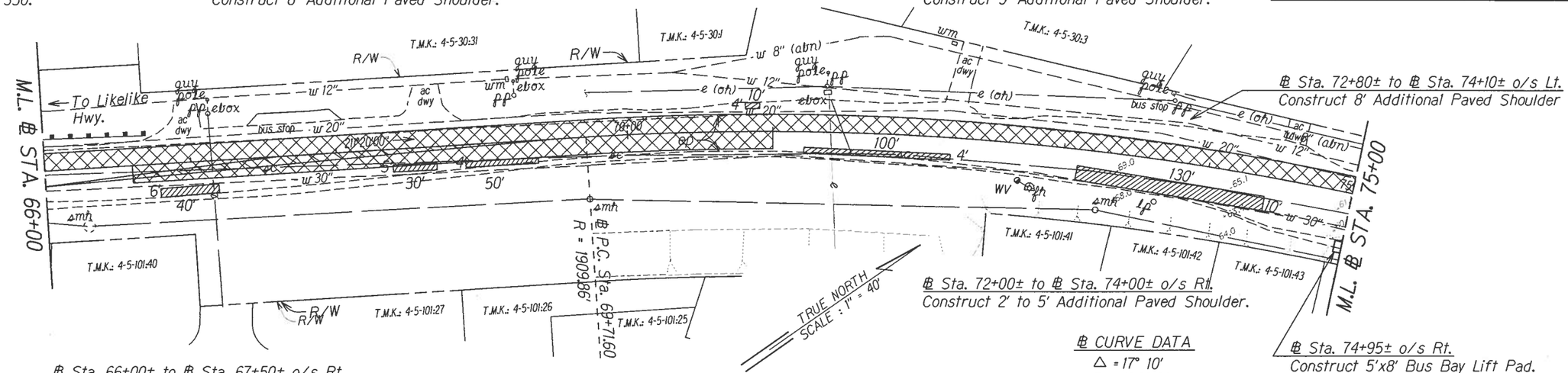
SHEET No. 3 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X

℄ Sta. 66+32± to ℄ Sta. 66+70± Lt.
Install Fleat 350.

℄ Sta. 67+40± to ℄ Sta. 68+05± o/s Lt.
Construct 8' Additional Paved Shoulder.

℄ Sta. 72+40± to ℄ Sta. 72+80± o/s Lt.
Construct 3' Additional Paved Shoulder.



℄ Sta. 66+00± to ℄ Sta. 67+50± o/s Rt.
Construct 2' Additional Paved Shoulder.

℄ Sta. 69+00± to ℄ Sta. 71+00± o/s Rt.
Construct 2' Additional Paved Shoulder.

℄ Sta. 72+00± to ℄ Sta. 74+00± o/s Rt.
Construct 2' to 5' Additional Paved Shoulder.

℄ Sta. 72+80± to ℄ Sta. 74+10± o/s Lt.
Construct 8' Additional Paved Shoulder

℄ CURVE DATA
△ = 17° 10'
R = 1909.86
T = 288.27
C = 570.08
L_C = 572.22

℄ Sta. 74+95± o/s Rt.
Construct 5'x8' Bus Bay Lift Pad.

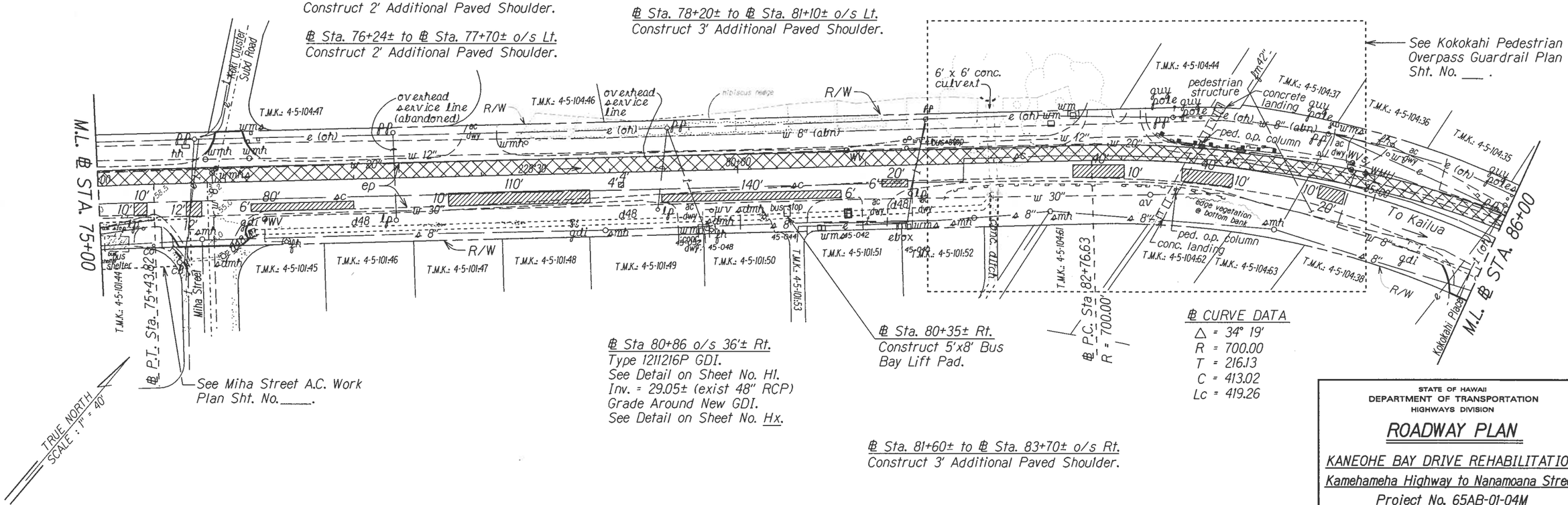
℄ Sta. 81+10± to ℄ Sta. 81+45± o/s Lt.
Construct New 4' Additional Paved Shoulder

℄ Sta. 81+45± to ℄ Sta. 82+70± o/s Lt.
Construct 5' Additional Paved Shoulder

℄ Sta. 74+80± to ℄ Sta. 75+80± o/s Lt.
Construct 2' Additional Paved Shoulder.

℄ Sta. 76+24± to ℄ Sta. 77+70± o/s Lt.
Construct 2' Additional Paved Shoulder.

℄ Sta. 78+20± to ℄ Sta. 81+10± o/s Lt.
Construct 3' Additional Paved Shoulder.



See Kokokahi Pedestrian Overpass Guardrail Plan Sht. No. ___ .

See Miha Street A.C. Work Plan Sht. No.____.

℄ Sta 80+86 o/s 36'± Rt.
Type 1211216P GDI.
See Detail on Sheet No. H1.
Inv. = 29.05± (exist 48" RCP)
Grade Around New GDI.
See Detail on Sheet No. Hx.

℄ Sta. 80+35± Rt.
Construct 5'x8' Bus Bay Lift Pad.

℄ Sta. 81+60± to ℄ Sta. 83+70± o/s Rt.
Construct 3' Additional Paved Shoulder.

℄ CURVE DATA
△ = 34° 19'
R = 700.00
T = 216.13
C = 413.02
Lc = 419.26

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: 1" = 40' Date: December, 2008

SHEET No. 4 OF 6 SHEETS

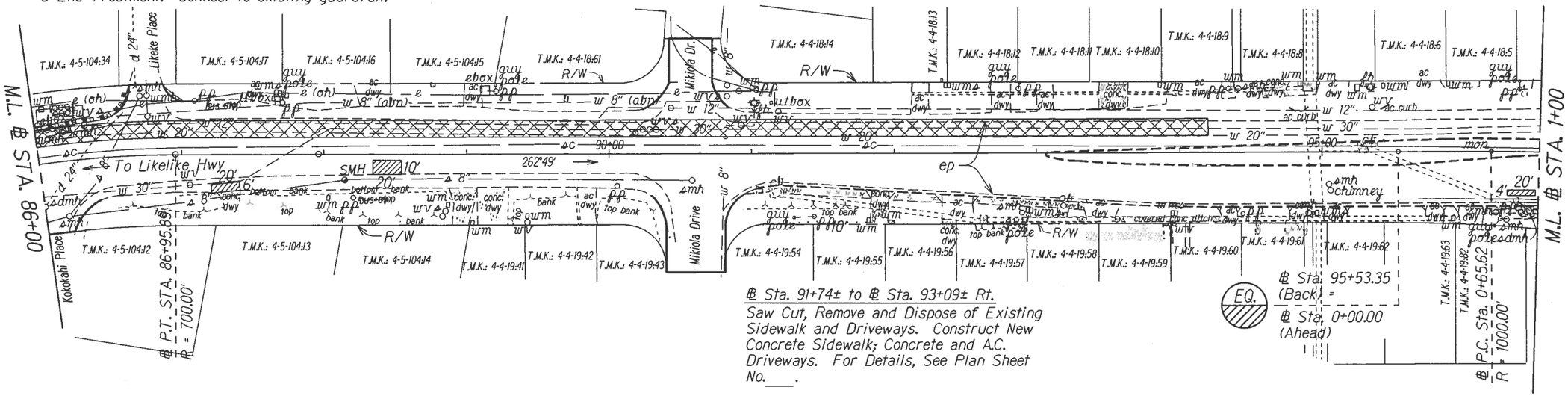
ORIGINAL PLAN
SURVEY PLOTTED BY ... DATE
DRAWN BY ...
TRACED BY ...
DESIGNED BY ...
NOTE BOOK ... QUANTITIES BY ...
No. Stan/dot ... CHECKED BY ...

00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X

TRUE NORTH
SCALE : 1" =40'

℄ Sta. 86+00± to ℄ Sta. 86+62± Lt.
Remove existing guardrail, post and end treatment. Install New Type 3 Guardrail and Modified Type G End Treatment. Connect to existing guardrail.



℄ Sta. 91+74± to ℄ Sta. 93+09± Rt.
Saw Cut, Remove and Dispose of Existing Sidewalk and Driveways. Construct New Concrete Sidewalk; Concrete and A.C. Driveways. For Details, See Plan Sheet No.___.

℄ Sta. 95+53.35 (Back) =
℄ Sta. 0+00.00 (Ahead)

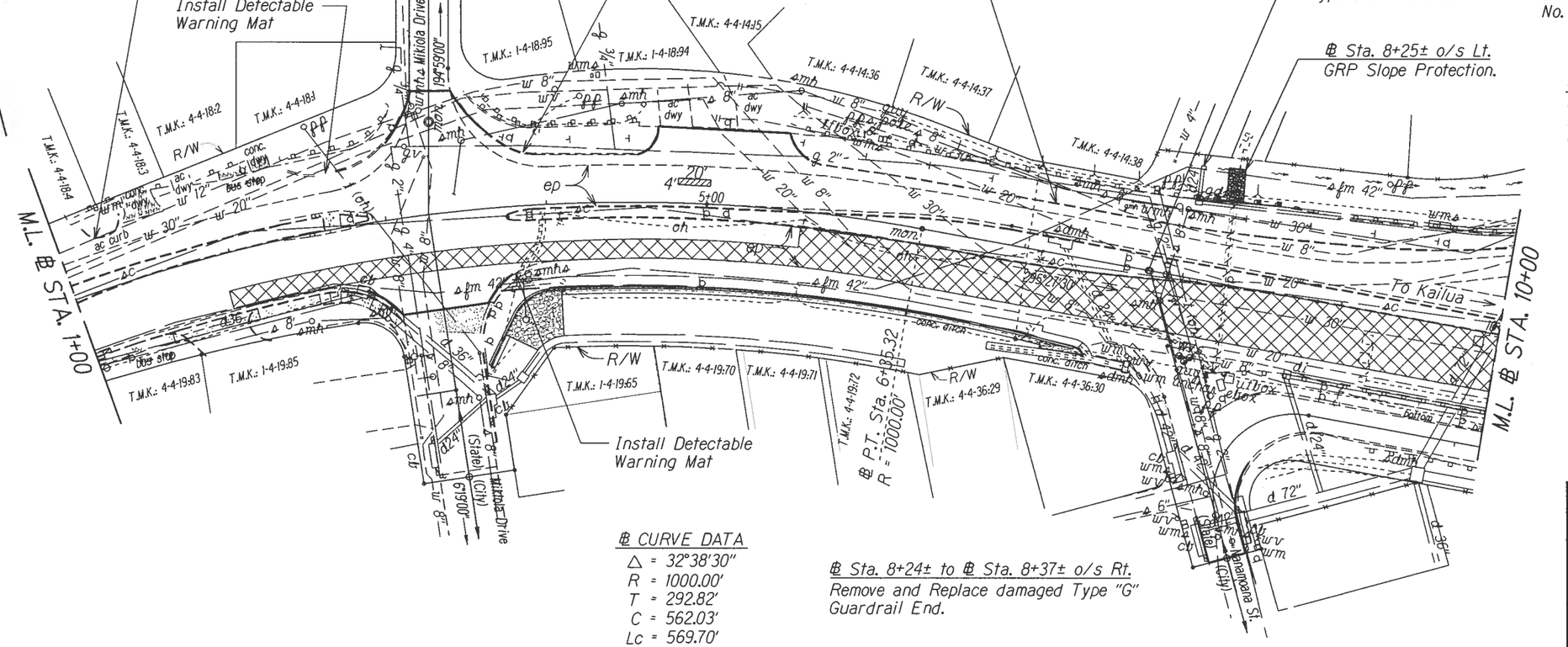
℄ Sta. 0+40± to ℄ Sta. 0+64± Rt.
Saw Cut, Remove and Dispose Existing Driveway. Construct New Concrete Driveway. For Details, See Plan Sheet No. _____ .

TRUE NORTH
SCALE : 1" =40'

Replace existing bituminous curb with new bituminous curb.

Install Detectable Warning Mat

Replace existing bituminous curb with new bituminous curb, with drainage slots.



Install Detectable Warning Mat

℄ CURVE DATA
△ = 32°38'30"
R = 1000.00'
T = 292.82'
C = 562.03'
Lc = 569.70'

℄ Sta. 8+04± o/s Lt.
Type 61614P Grates.

℄ Sta. 8+25± o/s Lt.
GRP Slope Protection.

℄ Sta. 8+24± to ℄ Sta. 8+37± o/s Rt.
Remove and Replace damaged Type "G" Guardrail End.

℄ Sta. 7+90± to 8+60± Lt.
Remove existing guardrail and post. Install New Type 3 Guardrail and connect to existing guardrail.

ORIGINAL PLANS
SURVEY PLOTTED BY ____ DATE
DRAWN BY ____
TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____
NOTE BOOK No. Stan0905

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

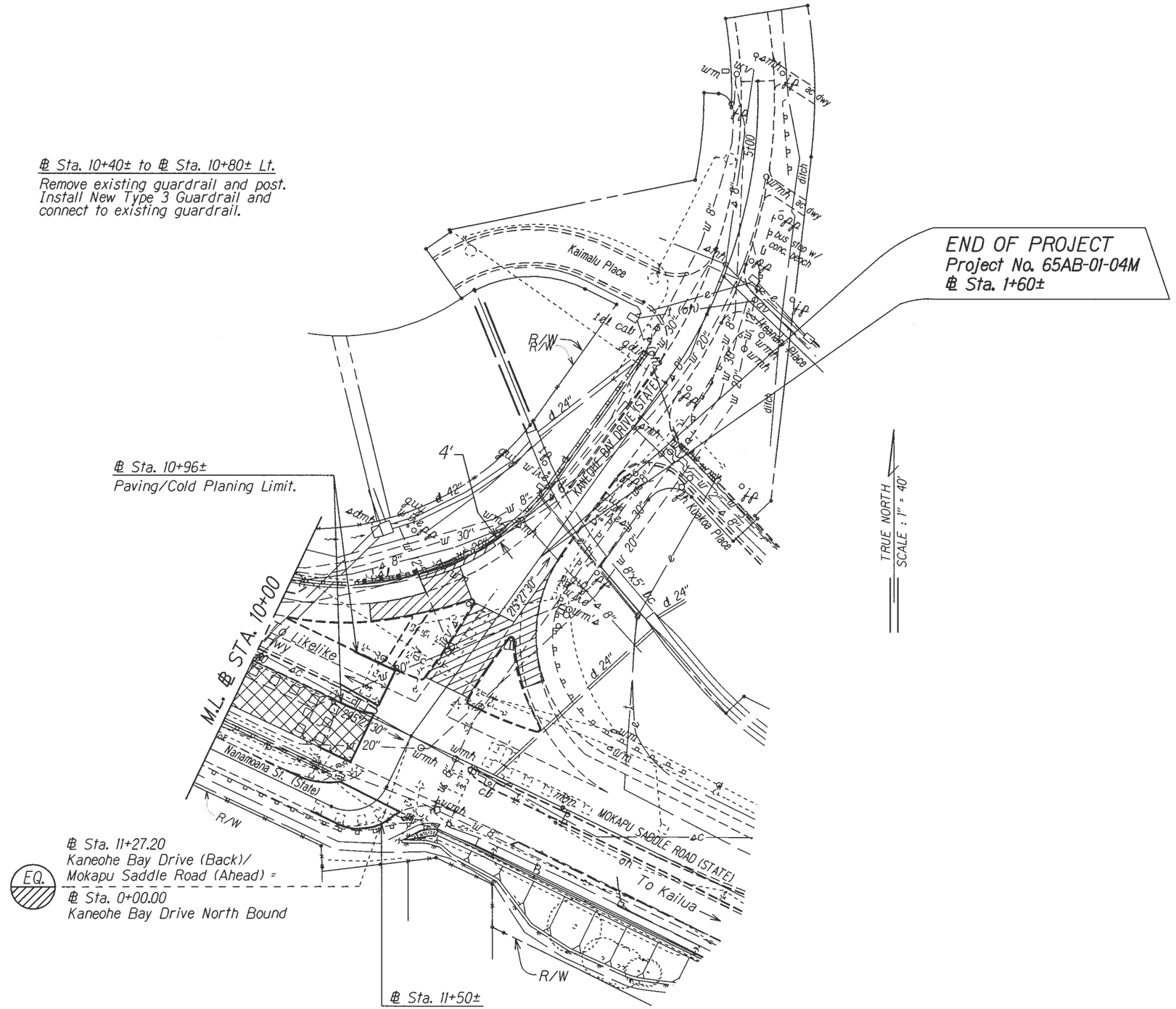
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: 1" = 40' Date: December, 2008

SHEET No. 5 OF 6 SHEETS

00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X



℄ Sta. 10+40± to ℄ Sta. 10+80± Lt.
Remove existing guardrail and post.
Install New Type 3 Guardrail and connect to existing guardrail.

END OF PROJECT
Project No. 65AB-01-04M
℄ Sta. 1+60±

℄ Sta. 10+96±
Paving/Cold Planing Limit.

℄ Sta. 11+27.20
Kaneohe Bay Drive (Back)/
Mokapu Saddle Road (Ahead) =
℄ Sta. 0+00.00
Kaneohe Bay Drive North Bound

℄ Sta. 11+50±
Paving/Cold Planing Limit.

ORIGINAL PLAN	SURVEY PLOTTED BY ______ DATE ______
NOTE BOOK ddl	DRAWN BY ______
No. 5kandp06	TRACED BY ______
	DESIGNED BY ______
	QUANTITIES BY ______
	CHECKED BY ______

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

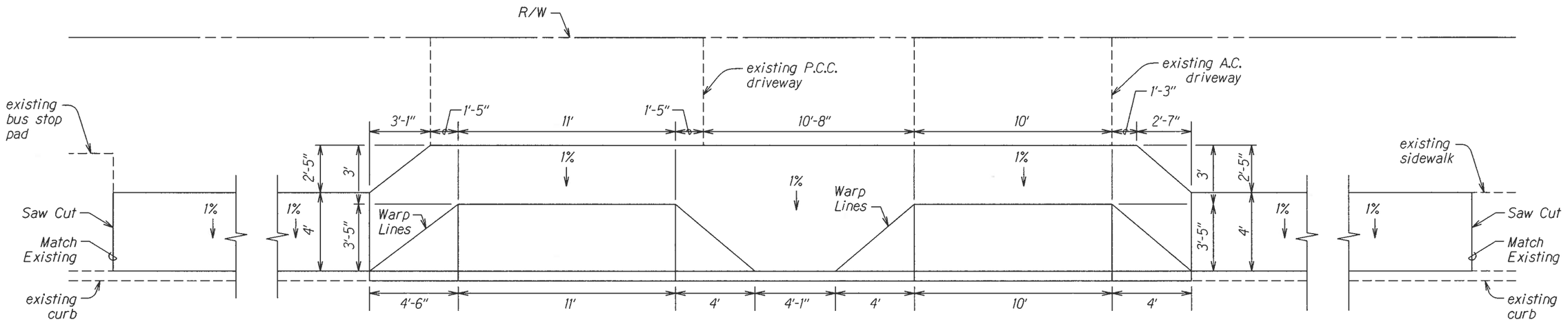
ROADWAY PLAN

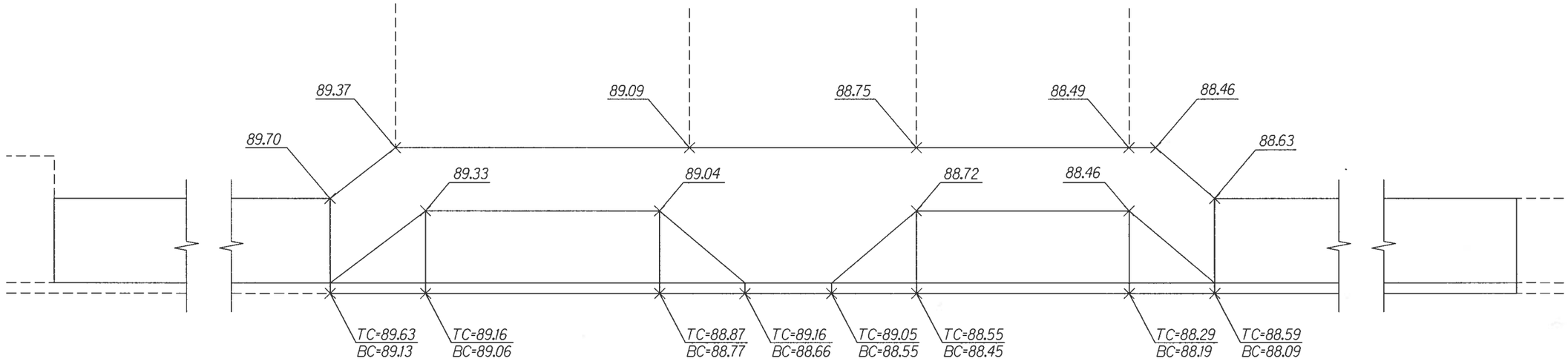
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: 1" = 40'   Date: December, 2008

SHEET No. 6 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	20xx	0	0





DRIVEWAYS & SIDEWALKS
℄ STA. 17+12± TO ℄ STA. 18+63± LT.

Scale: 3/8" = 1'

ORIGINAL PLAT
SURVEY PLOTTED BY ____ DATE
PLAN BY ____
TRACED BY ____
NOTE BOOK DESIGNED BY ____
dd/mm/yy QUANTITIES BY ____
No. ____ CHECKED BY ____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

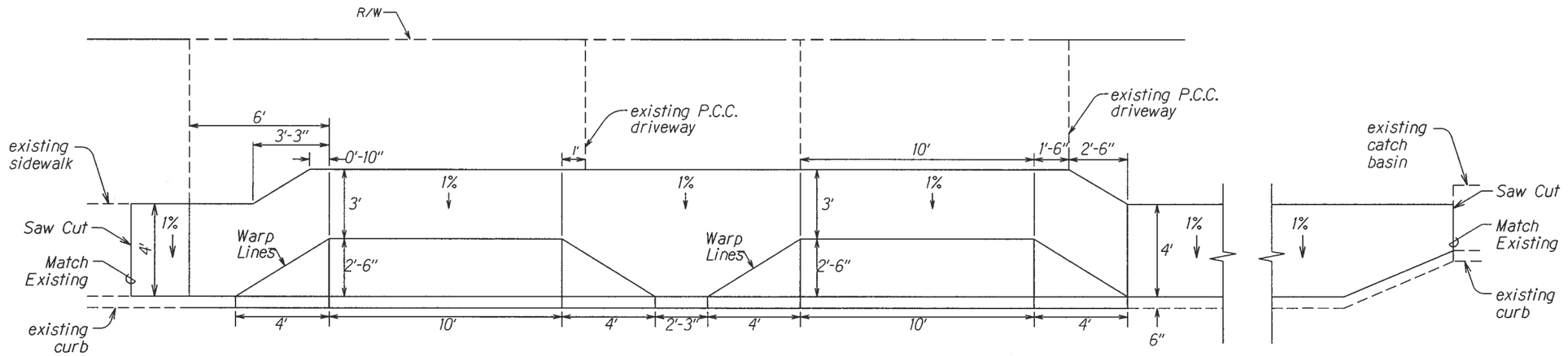
DRIVEWAY DETAIL

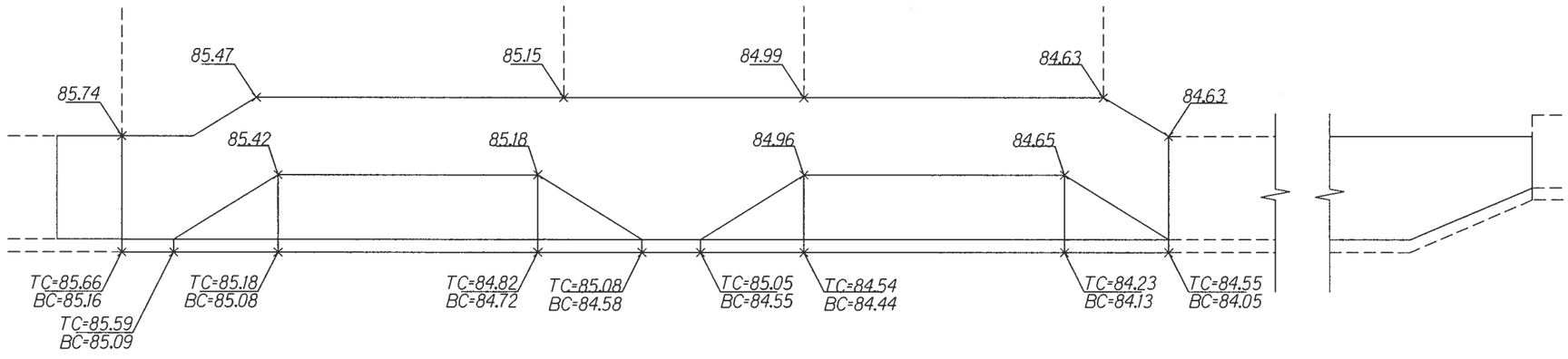
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Hwy. to Nanamoana St.
Project No. 65AB-01-04M

Scale: 3/8"=1' Date: November, 2008

SHEET No. X OF X SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	0	0





DRIVEWAYS & SIDEWALKS
℄ STA. 19+00± TO ℄ STA. 19+82± LT.

Scale: 3/8" = 1'

ORIGINAL PLAN

SURVEY PLOTTED BY _____ DATE
DRAWN BY _____ .
TRACED BY _____ .
DESIGNED BY _____ .
QUANTITIES BY _____ .
CHECKED BY _____ .

NOTE BOOK dated 3/4/11
N:_____driveway2.dgn

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRIVEWAY DETAIL

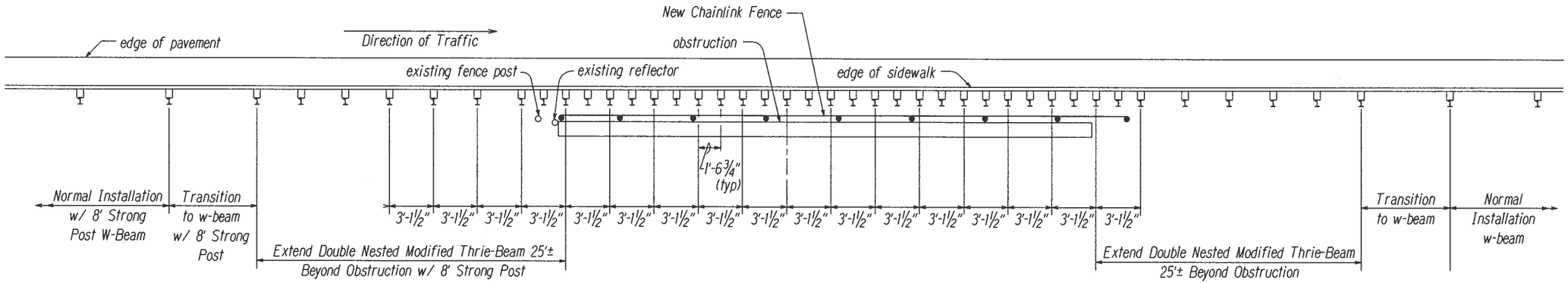
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Hwy. to Nanamoana St.
Project No. 65AB-01-04M

Scale: 3/8"=1' Date: December, 2008

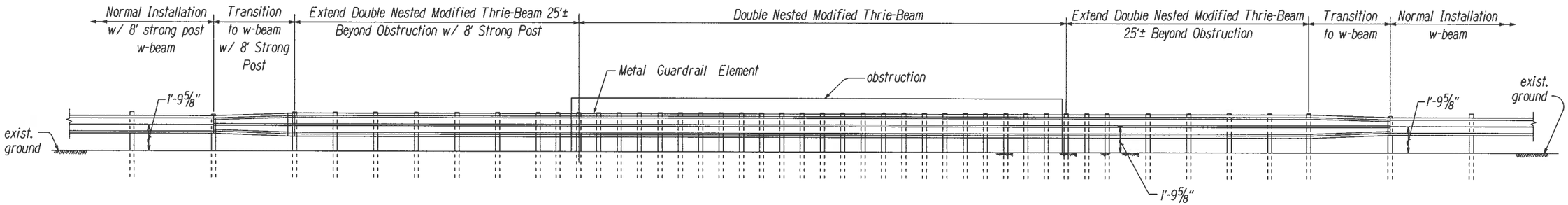
SHEET No. X OF X SHEETS

00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X



PLAN



ELEVATION

SPECIAL DETAIL OF GUARDRAIL INSTALLATION AT OBSTRUCTION AT KAWA BRIDGE (MAUKA)

NOTES:

1. All Guardrail and Concrete Barrier Designs at obstructions shall be approved by the Engineer.

ORIGINAL PLAN
SURVEY PLOTTED BY ____ DATE
DRAWN BY ____ :
TRACED BY ____ :
DESIGNED BY ____ :
QUANTITIES BY ____ :
CHECKED BY ____ :
NOTE BOOK
No. ____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS

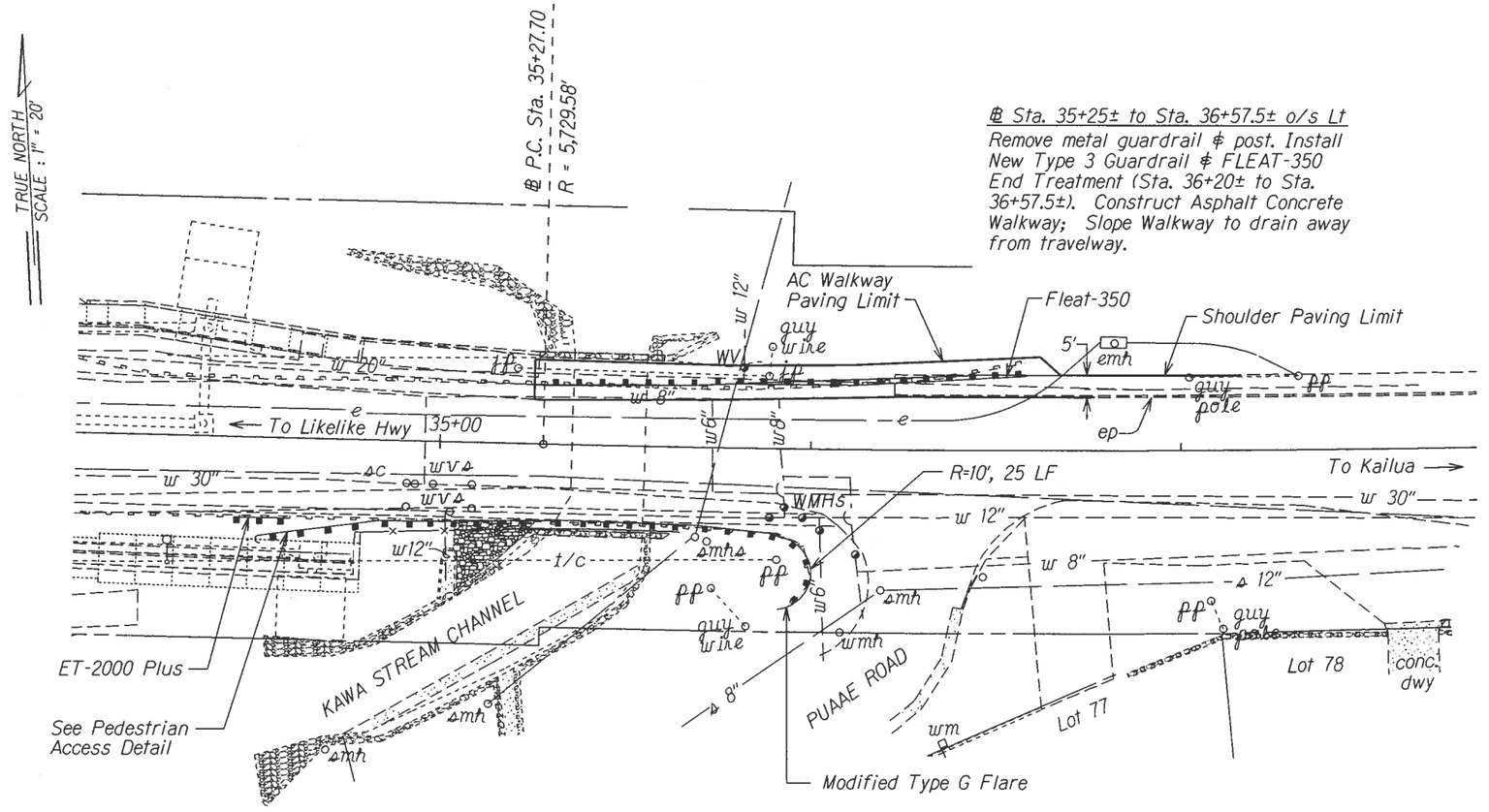
(AT OBSTRUCTION - SPECIAL DESIGN)
AT KAWA BRIDGE (MAUKA)
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

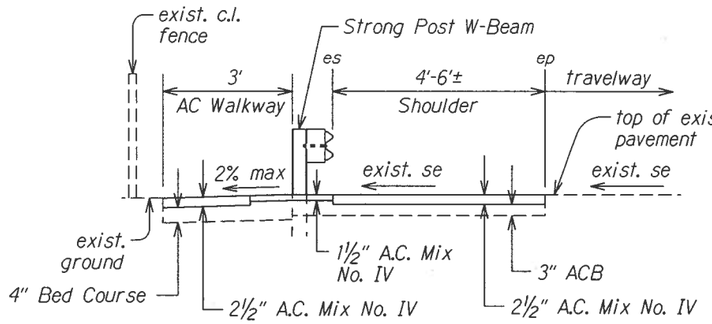
Scale: NTS Date: September, 2005

SHEET No. X OF X SHEETS

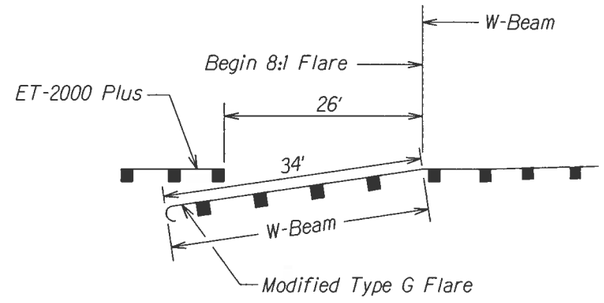
00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X





SECTION
KAWA BRIDGE LT
Scale: N.T.S.



PLAN
PEDESTRIAN ACCESS DETAIL
KAWA BRIDGE RT.
Scale: N.T.S.

℄ Sta. 34+43± to Sta. 34+77± Rt
Remove existing guardrail and post. Install New Type 3 Guardrail with New Modified Type G Flare at Approach End.

℄ Sta. 34+77± to Sta. 35+00± Rt
Remove existing guardrail and post. Install New Type 3 Guardrail with 8' Strong Post. Transition to New Double Nested Modified Thrie-Beam.

℄ Sta. 35+00± to Sta. 35+87± Rt
Remove existing guardrail and post. Install New Double Nested Modified Thrie Beam Transition to New Type 3 Guardrail on Trailing and Approach End.

℄ Sta. 35+87± to Sta. 36+00± Rt
Remove existing guardrail and post. Install New Type 3 Guardrail with New Modified Type G Flare at Trailing End. Transition to New Double Nested Modified Thrie-Beam.

℄ Sta. 35+00± to Sta. 36+00± o/s Rt
Extend existing shoulder to guardrail using A.C. Mix No. IV, while maintaining 2% slope; Grub & Compact existing ground.

℄ Sta. 35+25± to Sta. 35+65± o/s Rt
Remove existing chainlink fence. Install 5' high Chainlink Fence without top rail behind guardrail.

Kawa Bridge Right & Left
Extreme care shall be taken to avoid disturbing or damaging utility or bridge deck.

PLAN
KAWA BRIDGE GUARDRAIL
Scale: 1" = 20'

ORIGINAL PLAN
SURVEY PLOTTED BY _____ DATE
DRAWN BY _____
TRACED BY _____
NOTE BOOK DESIGNED BY _____
QUANTITIES BY _____
CHECKED BY _____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

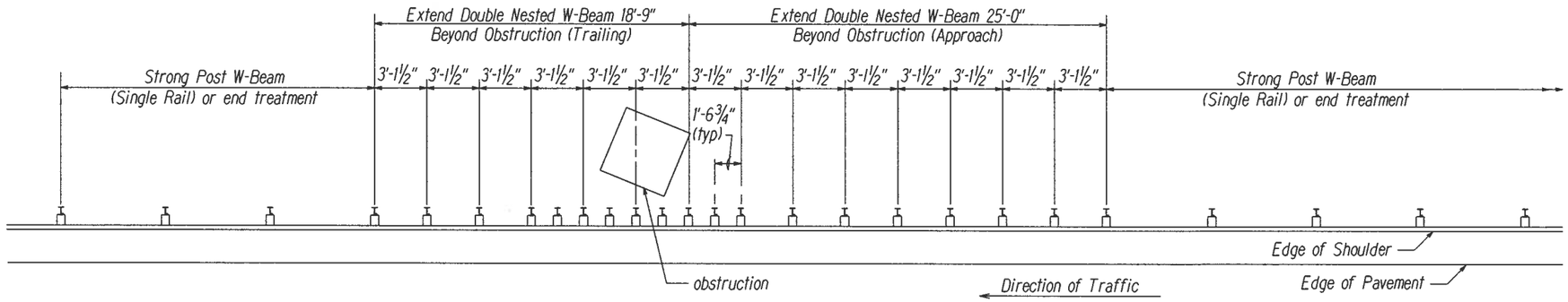
GUARDRAIL DETAILS
AT KAWA BRIDGE
KANEOHE BAY DRIVE REHABILITION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: As Noted Date: September, 2005

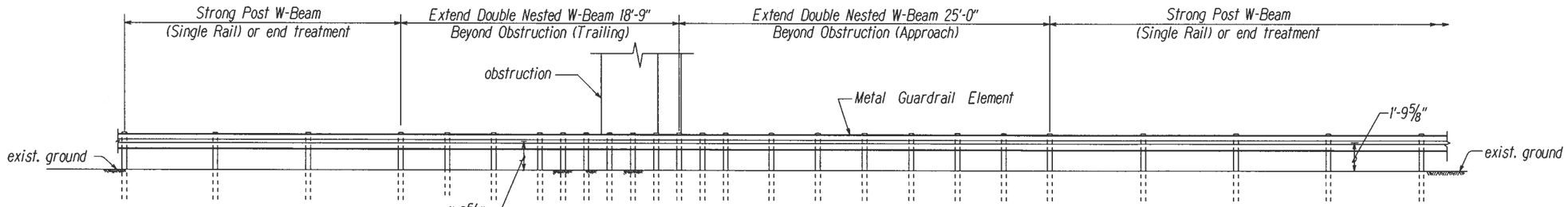
SHEET No. X OF X SHEETS

00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2006	X	X



PLAN



ELEVATION

SPECIAL DETAIL OF GUARDRAIL INSTALLATION AT OBSTRUCTION

AT KOKOKAHI PEDESTRIAN OVERPASS

NOTES:

1. All Guardrail and Concrete Barrier Designs at Obstructions shall be approved by the Engineer.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
DATED	QUANTITIES BY	
N.	CHECKED BY	

tdl:ruby/guardrail/te54rev.dgn (standard plan TE-53 r09/01/87 # TE-54 rll/03/89)

r8/21/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS

(AT OBSTRUCTION - SPECIAL DESIGN)

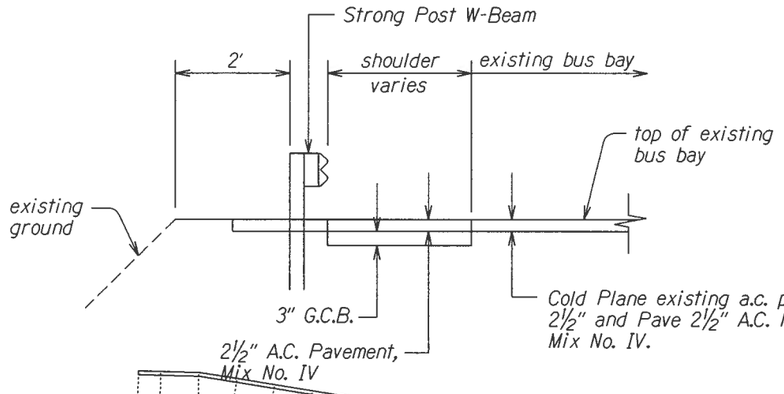
KOKOKAHI PEDESTRIAN OVERPASS
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: NTS Date: September, 2005

SHEET No. 0 OF 0 SHEETS

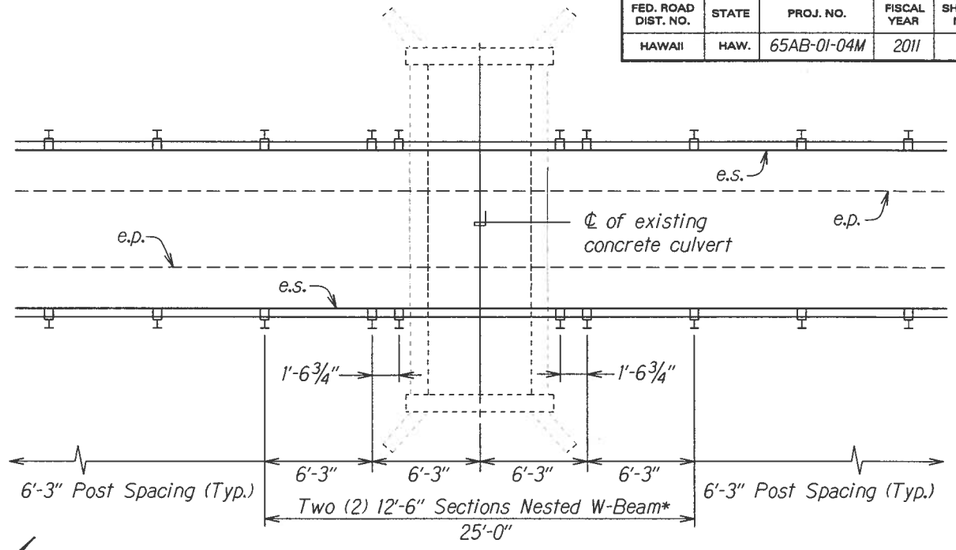
00

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	X	X



GUARDRAIL DETAIL AT BUS STOP ℄ STA. 81+40± to Sta. 82+30± Lt.

Scale: NTS



*To be paid under Item No. 606.3100, W-Beam Guardrail w/Strong Post

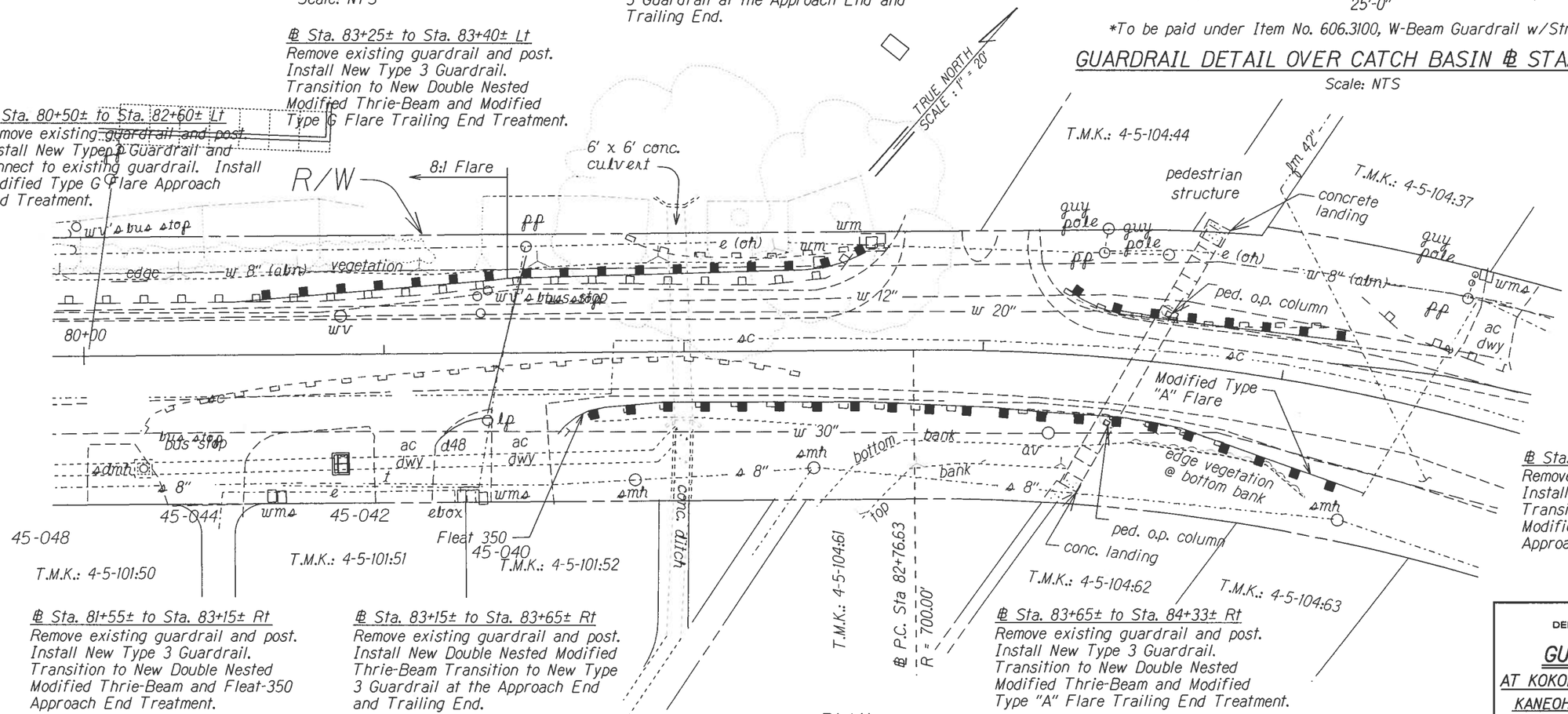
GUARDRAIL DETAIL OVER CATCH BASIN ℄ STA. 81+97±

Scale: NTS

℄ Sta. 80+50± to Sta. 82+60± Lt
Remove existing guardrail and post. Install New Type 3 Guardrail and connect to existing guardrail. Install Modified Type G Flare Approach End Treatment.

℄ Sta. 83+25± to Sta. 83+40± Lt
Remove existing guardrail and post. Install New Type 3 Guardrail. Transition to New Double Nested Modified Thrie-Beam and Modified Type G Flare Trailing End Treatment.

℄ Sta. 83+40± to Sta. 83+90± Lt
Remove existing guardrail and post. Install New Double Nested Modified Thrie-Beam. Transition to New Type 3 Guardrail at the Approach End and Trailing End.



℄ Sta. 81+55± to Sta. 83+15± Rt
Remove existing guardrail and post. Install New Type 3 Guardrail. Transition to New Double Nested Modified Thrie-Beam and Fleat-350 Approach End Treatment.

℄ Sta. 83+15± to Sta. 83+65± Rt
Remove existing guardrail and post. Install New Double Nested Modified Thrie-Beam Transition to New Type 3 Guardrail at the Approach End and Trailing End.

℄ Sta. 83+65± to Sta. 84+33± Rt
Remove existing guardrail and post. Install New Type 3 Guardrail. Transition to New Double Nested Modified Thrie-Beam and Modified Type "A" Flare Trailing End Treatment.

℄ Sta. 83+90± to Sta. 84+50± Lt
Remove existing guardrail and post. Install New Type 3 Guardrail. Transition to New Double Nested Modified Thrie-Beam and Fleat-350 Approach End Treatment.

PLAN
KOKOKAHI PEDESTRIAN OVERPASS GUARDRAIL

Scale: 1" = 20'

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
NOTE BOOK | dd/mm/yy | dd/mm/yy | No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

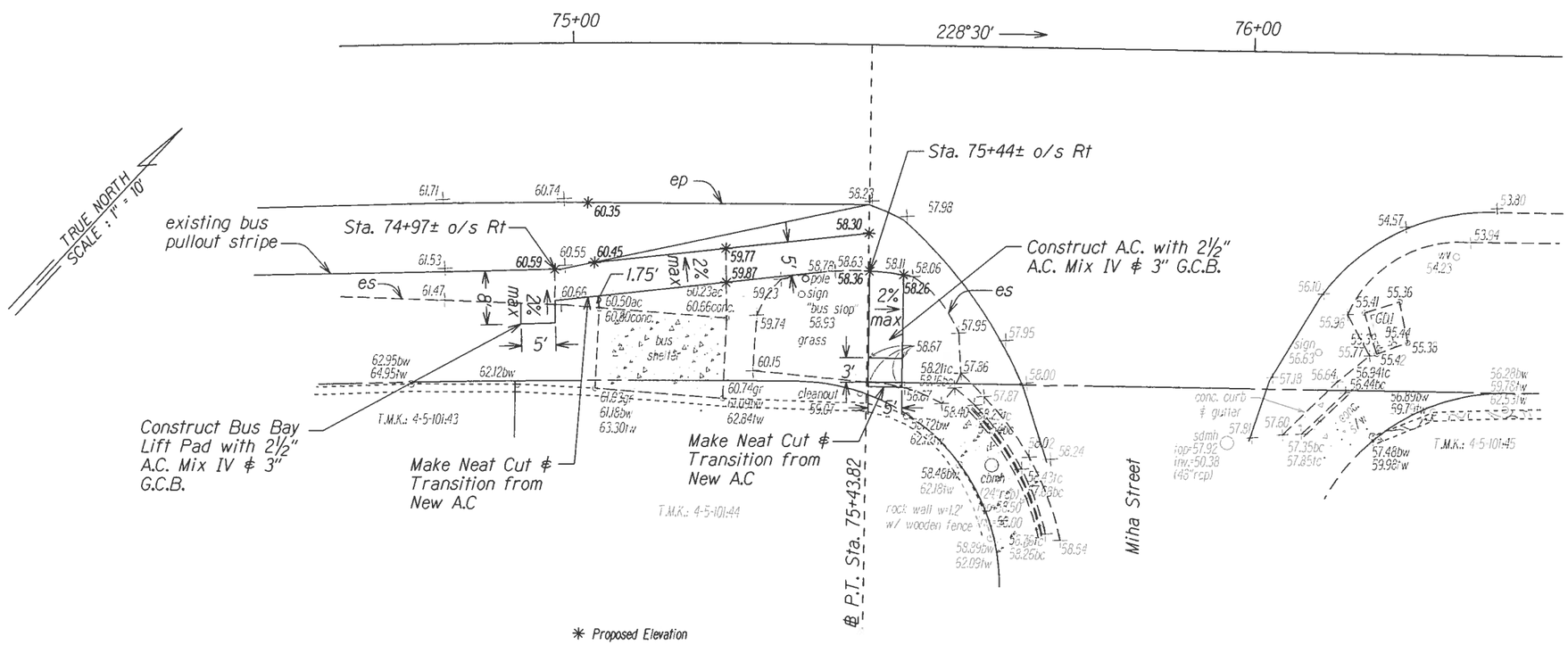
GUARDRAIL DETAILS
AT KOKOKAHI PEDESTRIAN OVERPASS
KANEOHE BAY DRIVE REHABILITION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

Scale: As Noted Date: October, 2008

SHEET No. X OF X SHEETS

00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2011	0	0



MIHA STREET A.C. WORK

Scale: 1" = 10'

ORIGINAL PLAN

SURVEY PLOTTED BY ____ DATE
DRAWN BY ____ . . . . .
TRACED BY ____ . . . . .
DESIGNED BY ____ . . . . .
QUANTITIES BY ____ . . . . .
CHECKED BY ____ . . . . .

NOTE BOOK dd
No. Sand07

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

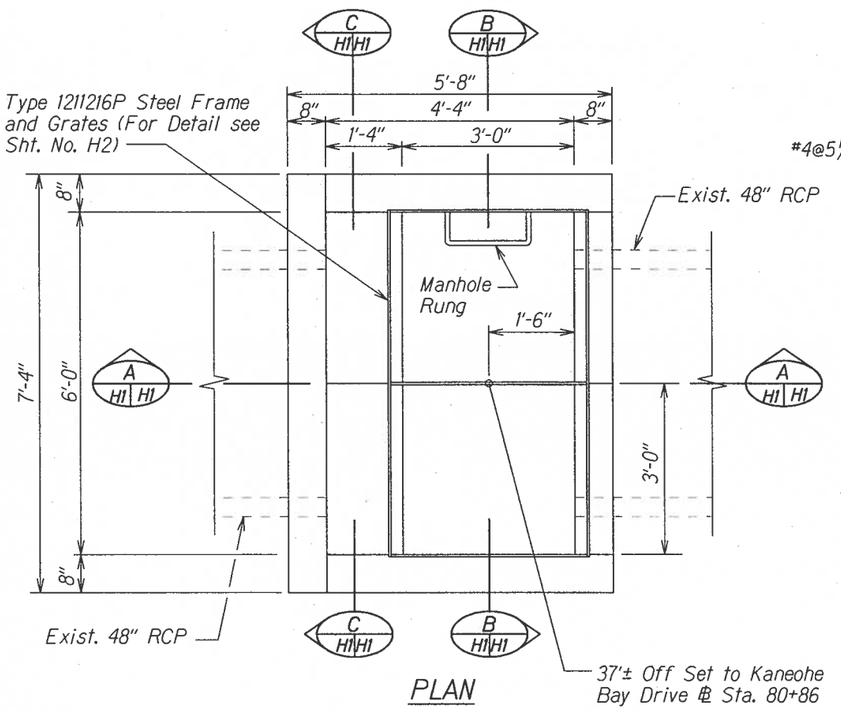
A.C. WORK

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

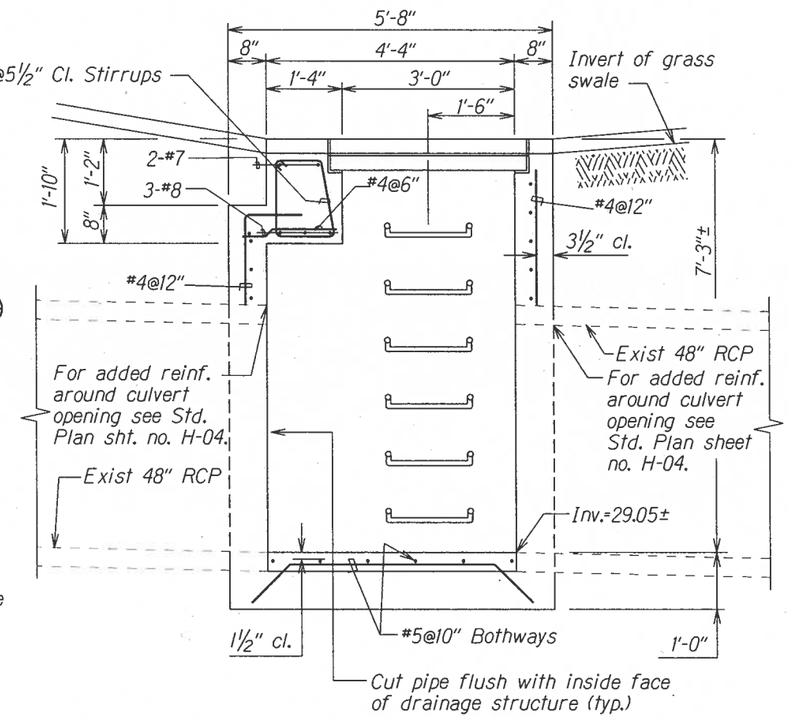
Scale: 1" = 10' Date: September, 2005

SHEET No. 1 OF 1 SHEETS

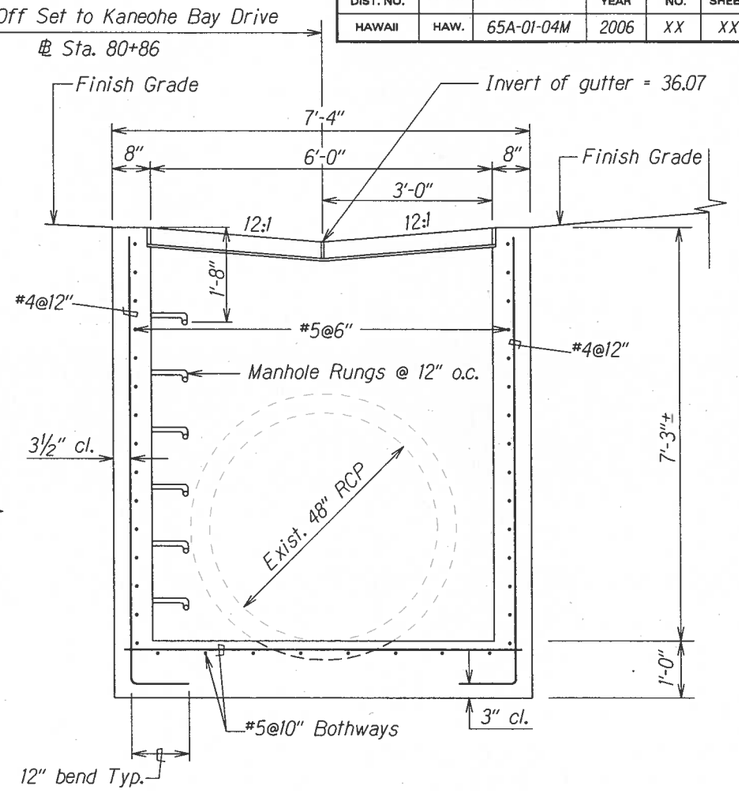
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-04M	2006	XX	XXX



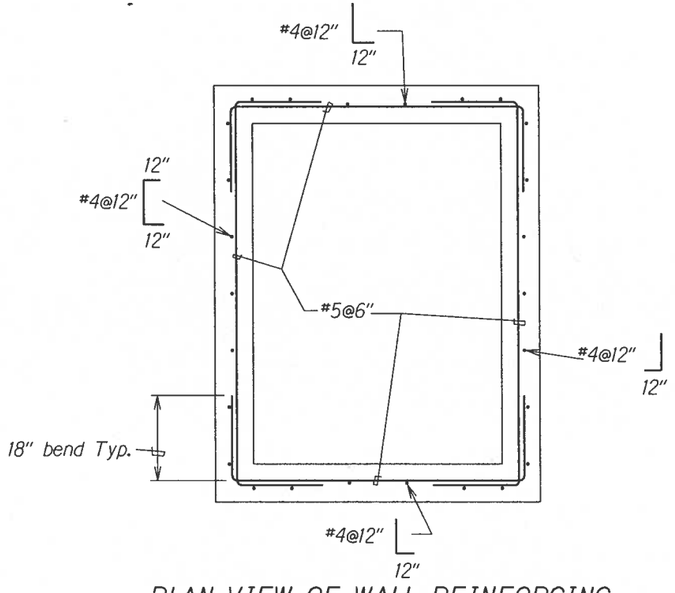
PLAN



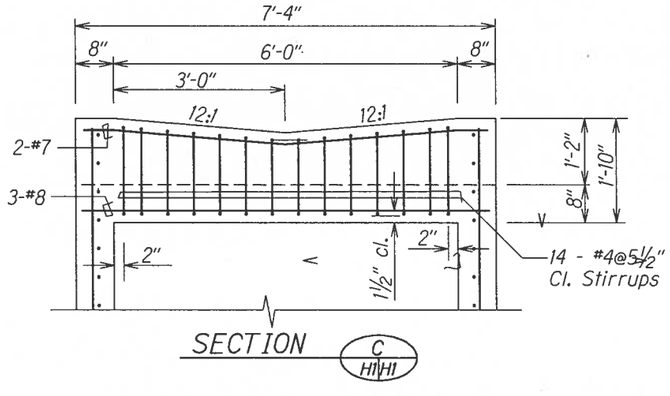
SECTION A H1 H1



SECTION B H1 H1



PLAN VIEW OF WALL REINFORCING



SECTION C H1 H1

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 2/14/06
	DRAWN BY LBC	
NOTE BOOK dgn/hw65a0104m.dgn	TRACED BY	
	DESIGNED BY LBC & CM	
	QUANTITIES BY	
	CHECKED BY	

REDUCED PLAN (HALF SIZE)

0 1 2 3

3 INCHES OF ORIGINAL PLAN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

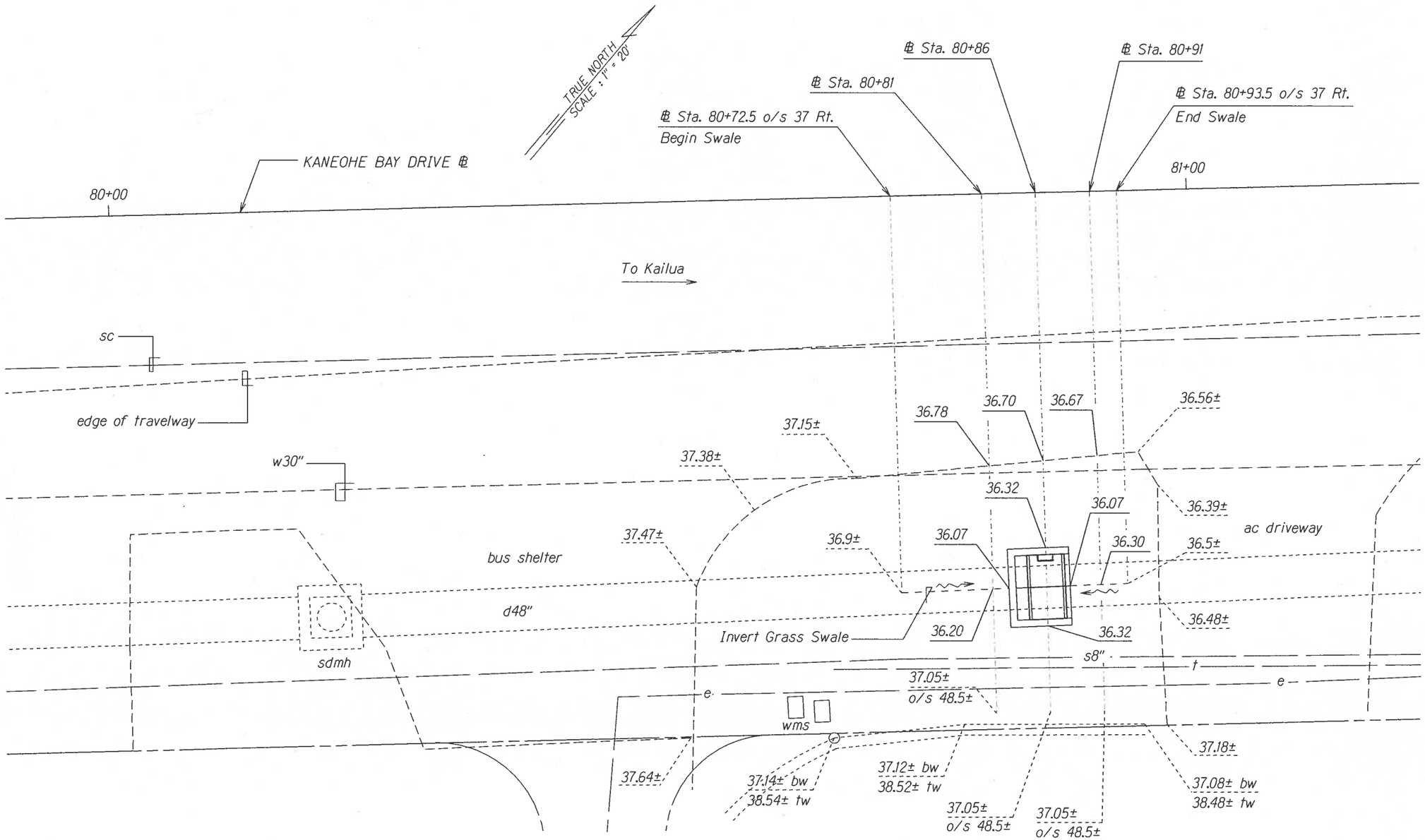
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Hwy to Nanamoana Street
Project No. 65A-01-04M

Scale: ¾"=1'-0" Date: February, 2006

SHEET No. H1 OF X SHEETS

DETAILS OF TYPE 1211216P GRATED DROP INLET AT ℄ STA. 80+86 O/S 37'± RT.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-04M	2006		



ORIGINAL PLAN

SURVEY PLOTTED BY ____ DATE
DRAWN BY ____
TRACED BY ____
NOTE BOOK ddltda5kan DESIGNED BY ____
N:\5kanhdt03 QUANTITIES BY ____
CHECKED BY ____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

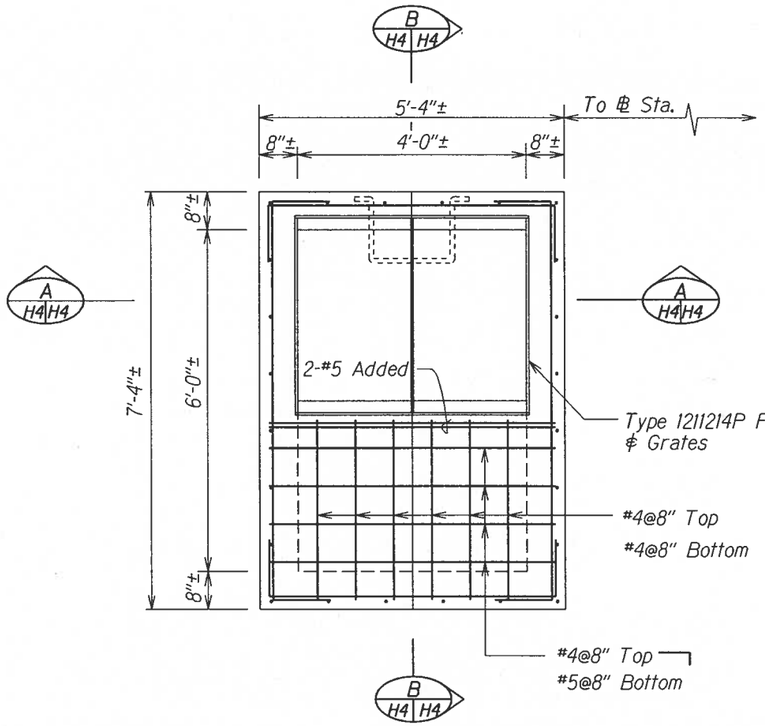
KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65A-01-04M

Scale: 1" = 5' Date: February, 2006

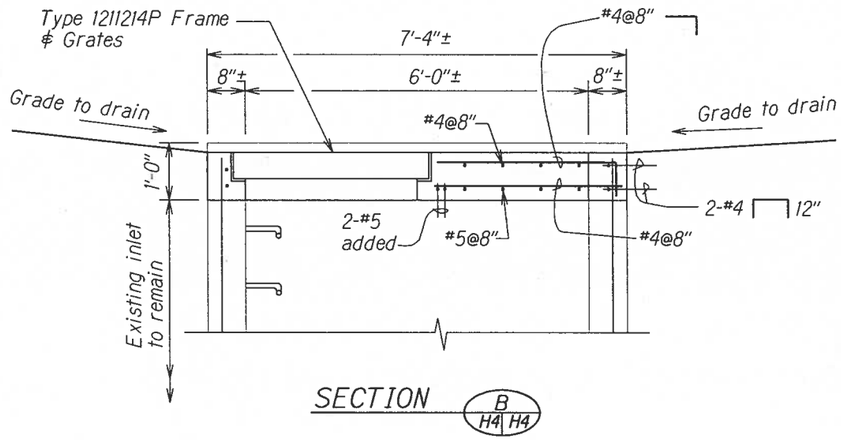
SHEET No. H3 OF X SHEETS

00

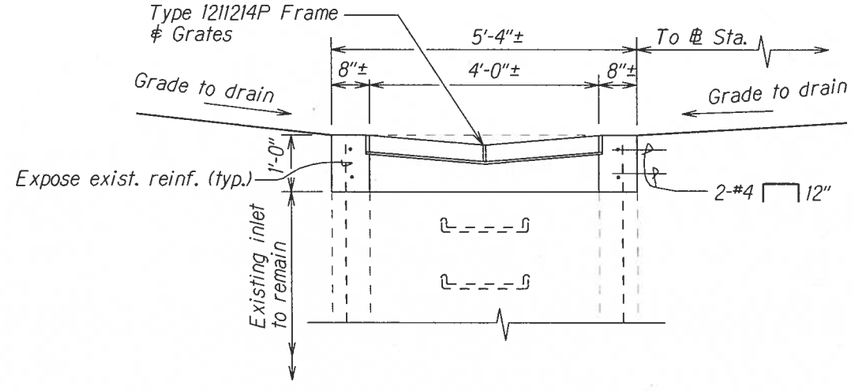
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-04M	2006	0	0



PLAN



SECTION B H4 H4



SECTION A H4 H4

DETAILS OF MODIFIED TYPE 121214P GDI AT KANEOHE BAY DRIVE ℄ STA. 63+62± O/S RT.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAFTED BY X	
	TRACED BY	
NOTE BASIC	DESIGNED BY X	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

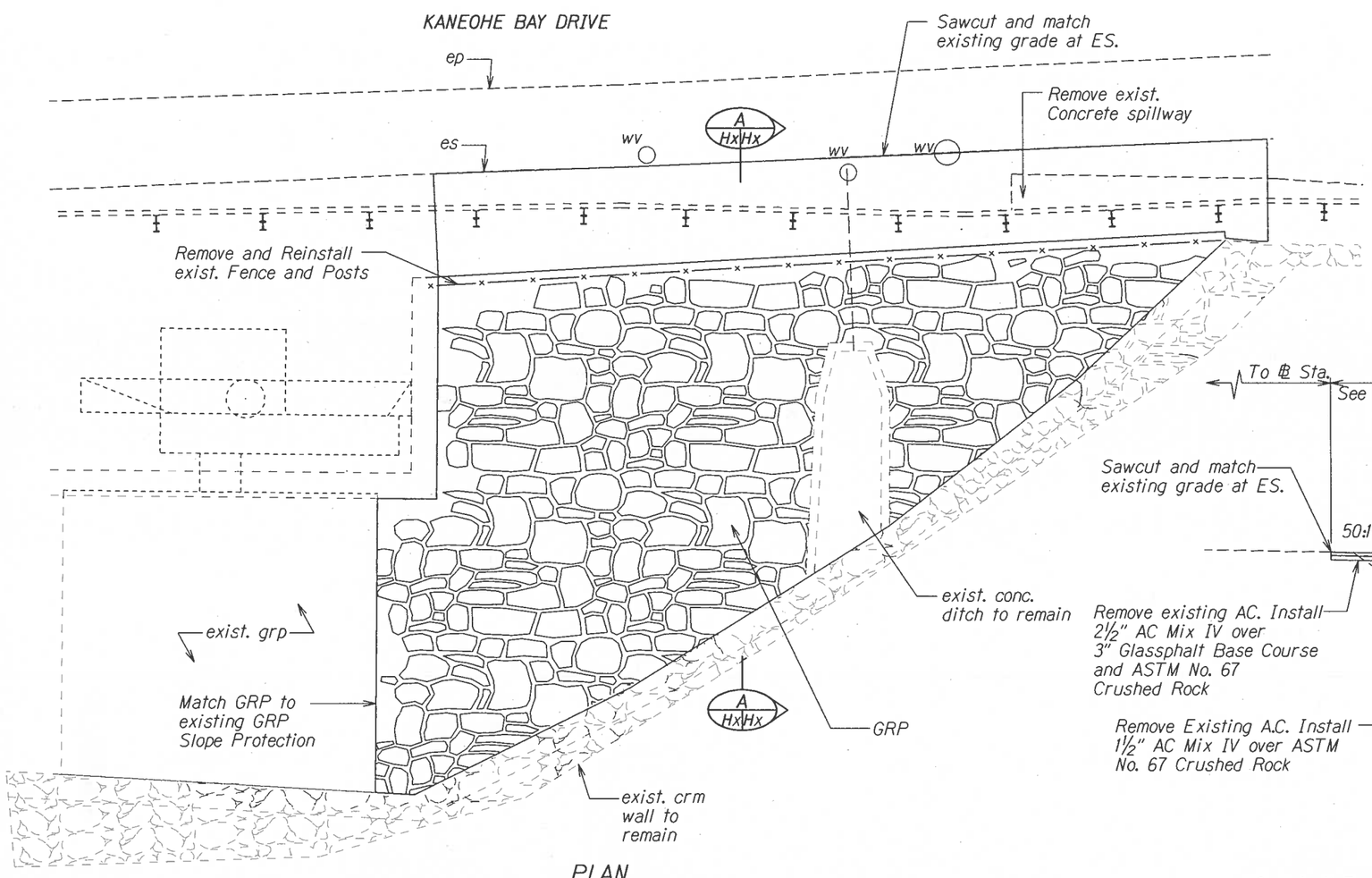
DRAINAGE DETAIL

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65A-01-04M

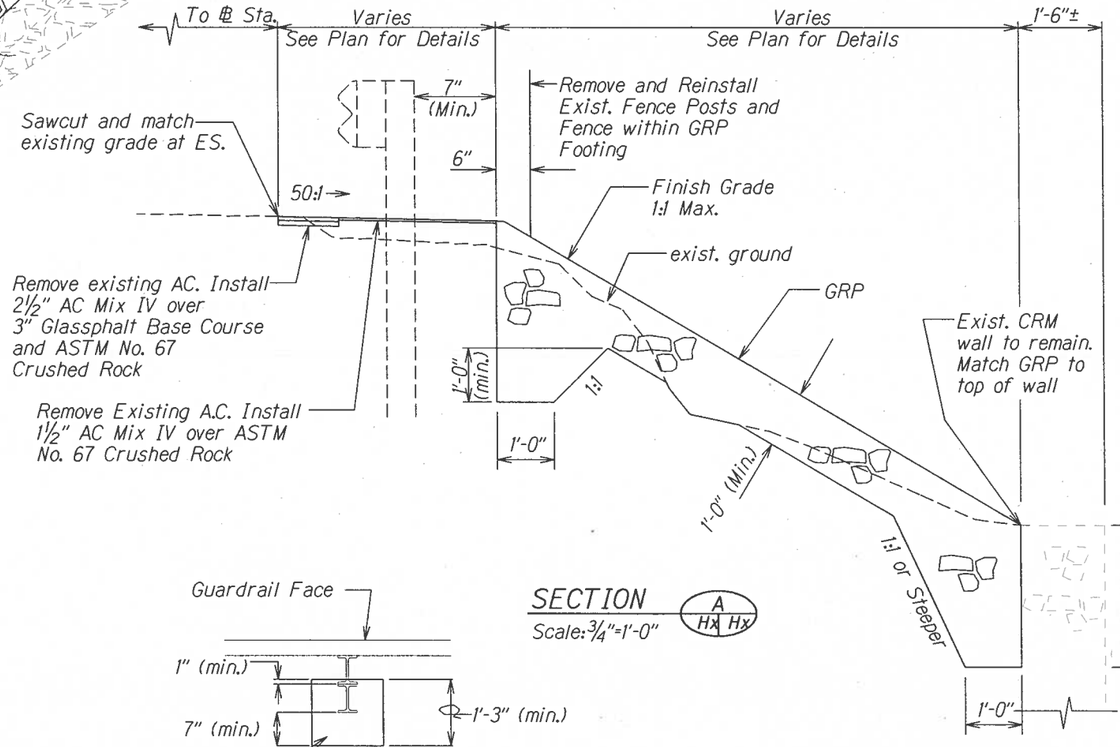
Scale: 3/4"=1'-0" Date: February 2006

SHEET No. H4 OF X SHEETS

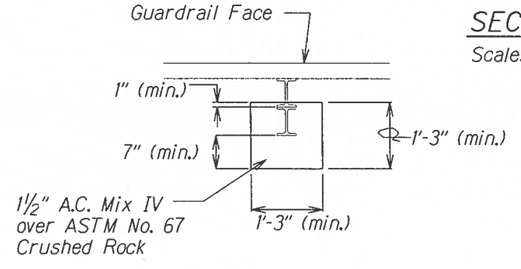
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65A-01-04M	2006	0	0



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



SECTION A Hx Hx
Scale: 3/4"=1'-0"



LEAVE OUT DETAIL
Scale: 3/4"=1'-0"

Notes:

1. Fill slope surface depressions with Grouted Rubble Paving. Fill material shall not be used.
2. Removing and reinstalling existing fence posts and placing foundation within the GRP shall not be paid for separately, but shall be considered incidental to Grouted Rubble Paving. Space fence posts such that post is not directly behind guardrail post.
3. The location of the guardrail posts and fence line are approximate. The Contractor is responsible for verifying the locations. In locations where the back of the guardrail post is less than 7 inches to the Grouted Rubble Paving install Leave Out Detail.
4. Removing existing concrete spillway shall not be paid for separately, but shall be considered incidental to Grouted Rubble Paving.
5. ASTM No. 67 Crushed Rock and Roadway Excavation shall not be paid for separately, but shall be considered incidental to AC Mix No. IV.
6. Removing and reinstalling existing metal guardrail and posts shall not be paid for separately, but shall be considered incidental to Strong Post W Beam Guardrail.

ORIGINAL PLAN
SURVEY PLOTTED BY ____ DATE x
DRAWN BY x
TRACED BY
DESIGNED BY x
QUANTITIES BY
CHECKED BY
NOTE ADDS, DELETIONS & REVISIONS
No. ____ DATE ____ BY ____
C:\Projects\Kaneohe\05.dgn

REDUCED PLAN
(HALF SIZE)
0 1 2 3
3 INCHES OF ORIGINAL PLAN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

KANEOHE BAY DRIVE REHABILITATION
Kamehameha Hwy to Nanamoana Street
Project No. 65A-01-04M

Scale: As Shown Date: Feb, 2006

SHEET No. Hx OF x SHEETS

DETAILS OF GRP SLOPE PROTECTION ℄ STA. 34+80± RT. TO ℄ STA. 35+27.7± RT.