

STANDARD PLANS SUMMARY

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|---------------------|-------|-------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| HAWAII | HAW. | 930B-01-90M | 1990 | 2 | 28 |

| STANDARD PLAN NO. | TITLE | DATE |
|-------------------|--|----------|
| B-01 | Notes and Miscellaneous Details | 07/01/86 |
| B-02 | | |
| B-03 | Typical Structure Excavation and Backfill Pay Limits | 07/01/86 |
| B-04 | | |
| B-05 | | |
| B-06 | Concrete Box Girder | 07/01/86 |
| B-07 | Concrete Box Girder | 07/01/86 |
| B-08 | Concrete Box Girder | 07/01/86 |
| B-09 | | |
| B-10 | | |
| B-11 | | |
| B-12 | Prestressed Concrete Piles | 07/01/86 |
| B-13 | Prestressed Concrete Piles | 07/01/86 |
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| D-01 | Chain Link Fence With Toprail | r03/06/87 |
| D-02 | Chain Link Fence Without Toprail | 07/01/86 |
| D-03 | Wire Fence With Metal Posts | 07/01/86 |
| D-04 | Typical Details of Curbs and/or Gutters | 07/01/86 |
| D-05 | Typical Details of Reinforced Concrete Drop Driveway | 07/01/86 |
| D-06 ● | Centerline and Reference Survey Monument | 07/01/86 |
| D-07 ● | Street Survey Monument | 07/01/86 |
| D-08 | Landscaping Shrub and Tree Planting | 07/01/86 |
| D-09 | Field Office | 07/01/86 |
| D-10 | Field Office | 07/01/86 |
| D-11 | Project Site Laboratory | 07/01/86 |
| D-12 | Project Site Laboratory | 07/01/86 |
| D-13 | Field Office & Project Site Laboratory | 07/01/86 |
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| H-01 | Type A, B, C and D Catch Basin | 07/01/86 |
| H-02 | Type A1, B1, C1 and D1 Catch Basin | 07/01/86 |
| H-03 | Type A2, B2, C2 and D2 Catch Basin | 07/01/86 |
| H-04 | Typical Reinforcing Details for Catch Basins | 07/01/86 |
| H-05 | Type A, B and C Storm Drain Manhole | 07/01/86 |
| H-06 | Type D and E Storm Drain Manhole | 07/01/86 |
| H-07 | Type F Storm Drain Manhole | 07/01/86 |
| H-08 | Catch Basin and Manhole Casting | 07/01/86 |
| H-09 | Type A-9 and A-9P Frames and Grates | 07/01/86 |
| H-10 | Type A-9B Frames and Grates | 07/01/86 |
| H-11 | Type 61614 and 61214 Grated Drop Inlet | 07/01/86 |
| H-12 | Type 61616 Grated Drop Inlet | 07/01/86 |
| H-13 | 61214, 61614 & 61616 Steel Frames and Grates | 07/01/86 |
| H-14 | 61214B Steel Frame and Grates | 07/01/86 |
| H-15 | 61614B Steel Frame and Grates | 07/01/86 |
| H-16 | Concrete and Cement Rubble Masonry Structures | 07/01/86 |
| H-17 | Inlet Structures | 07/01/86 |
| H-18 | Flared End Section for Culverts | 07/01/86 |
| H-19 | Outlet Structures | 07/01/86 |
| H-20 | Concrete Spillway Inlet | 07/01/86 |
| H-21 | 18" Slotted C.M.P. Drain | 07/01/86 |
| H-22 | C.M.P. Coupling Details Standard Joint | 07/01/86 |
| H-23 | Hat Shaped Coupling Band | 07/01/86 |
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| STANDARD PLAN NO. | TITLE | DATE |
|-------------------|--|-----------|
| TE-01 ● | Miscellaneous Sign Details | 07/01/86 |
| TE-02 ● | Galvanized Flanged Channel Sign Post Mounting | 07/01/86 |
| TE-03 ● | Galvanized Square Tube Sign Post Mounting | 07/01/86 |
| TE-04 ● | Regulatory Signs | r09/01/87 |
| TE-05 ● | Warning Signs | 07/01/86 |
| TE-06 ● | Miscellaneous Signs | r09/01/87 |
| TE-07 | Reserved | 07/01/86 |
| TE-08 ● | Construction Signs | r09/01/87 |
| TE-09 | Miscellaneous Intersection Signs | r03/06/87 |
| TE-10 | Reserved | 07/01/86 |
| TE-11 | Bike Route Sign and Supplementary Plates | 07/01/86 |
| TE-12 | State Route Marker and Auxiliary Markers | 07/01/86 |
| TE-13 | Interstate Route Marker | 07/01/86 |
| TE-14 | State Route Marker and Border Detail for Guide Signs | 07/01/86 |
| TE-15 | Route Marker Assemblies | 07/01/86 |
| TE-16 ● | Miscellaneous Reflector Markers | 07/01/86 |
| TE-17 ● | Type II Object Markers | 07/01/86 |
| TE-18 | Mileposts | 07/01/86 |
| TE-19 | Reserved | 07/01/86 |
| TE-20 | Overhead Sign Supports | 07/01/86 |
| TE-21 | Overhead Sign Support, Box Truss Type, Aluminum | 07/01/86 |
| TE-22 | Foundation Details and Schedules | 07/01/86 |
| TE-23 | Destination & Ground Mounted Expressway Signs | 07/01/86 |
| TE-24 | Breakaway Sign Supports for Ground Mounted Guide Signs | 07/01/86 |
| TE-25 | Laminated Aluminum Sign Panels (Overhead) | 07/01/86 |
| TE-26 | Laminated Aluminum Sign Panels (Ground Mounted) | 07/01/86 |
| TE-27 | Solid Aluminum Extruded Sign Panel and Accessory Details | 07/01/86 |
| TE-28 | Guide Signs Luminaire Mountings | 07/01/86 |
| TE-29 | Reserved | 07/01/86 |
| TE-30 ● | Raised Pavement Markers and Striping | 07/01/86 |
| TE-31 ● | Miscellaneous Pavement Markings | 07/01/86 |
| TE-32 ● | Miscellaneous Pavement Markings | r09/01/87 |
| TE-33 ● | Miscellaneous Pavement Markings | 07/01/86 |
| TE-34 ● | Reserved | 07/01/86 |
| TE-35 ● | Pavement Alphabets, Numbers & Symbols | 07/01/86 |
| TE-36 | Pavement Alphabets, Numbers & Symbols | 07/01/86 |
| TE-37 | Reserved | 07/01/86 |
| TE-38 | Traffic Signal System, Miscellaneous Details | 07/01/86 |
| TE-39 | Traffic Signal System, Miscellaneous Details | 07/01/86 |
| TE-40 ● | Loop Detectors | r03/06/87 |
| TE-41 | Pullboxes | 07/01/86 |
| TE-42 | Type III Traffic Signal Standard | 07/01/86 |
| TE-43 | Concrete Pullbox (2' x 3') | 07/01/86 |
| TE-44 | Reserved | 07/01/86 |

| STANDARD PLAN NO. | TITLE | DATE |
|-------------------|---|-----------|
| TE-45 | Reserved | 07/01/86 |
| TE-46 | Reserved | 07/01/86 |
| TE-47 | Reserved | 07/01/86 |
| TE-48 | Reserved | 07/01/86 |
| TE-49 | Reserved | 07/01/86 |
| TE-50 ● | Metal Guardrail | r03/06/87 |
| TE-51 ● | Metal Guardrail | r09/01/87 |
| TE-52 | Metal Guardrail with Rubrail | 07/01/86 |
| TE-53 | Metal Guardrail with Rubrail at Obstruction | r09/01/87 |
| TE-54 | Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation) | r09/01/87 |
| TE-55 ● | Metal Guardrail Connection to Concrete Barrier | r09/01/87 |
| TE-56 | Concrete Barrier Transition | 07/01/86 |
| TE-57 ● | Guardrail Type 3, Thrie Beam | r09/01/87 |
| TE-58 ● | Approach End Flare, One & Two Way Roadway | 07/01/86 |
| TE-59 ● | Trailing End Flare, One & Two Way Roadway | r09/01/87 |
| TE-60 ● | Anchor Block Details | 07/01/86 |
| TE-61 ● | Breakaway Cable Terminal (BCT) | r03/06/87 |
| TE-62 ● | Breakaway Cable Terminal (BCT) | r09/01/87 |
| TE-63 | Guardrail Type 4 (Rigid Barrier) | r09/01/87 |
| TE-64 | Portable Concrete Guardrail | r03/06/87 |
| TE-65 | Guardrail Type 4, Miscellaneous | r09/01/87 |
| TE-66 ● | Barricades | 07/01/86 |
| TE-67 ● | Delineation & Pavement Markings at Bridges | 07/01/86 |
| TE-68 | Wheelchair Ramps | 07/01/86 |
| TE-69 | Wheelchair Ramps | r09/01/87 |
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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| | TRACED BY | |
| | DESIGNED BY | |
| | CHECKED BY | |

NOTE:
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " ● " NEXT TO THE STANDARD PLAN NO.
(D-07 ●)

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| 09/01/87 | REVISED STANDARD PLANS TE-04,TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69. |
| 03/06/87 | REVISED STANDARD PLANS D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64. |
| DATE | REVISION |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

FARRINGTON HIGHWAY RESURFACING

Mokulela Homestead Road

towards Kaena State Park

PROJECT NO. 930B-01-90M

Date: May, 1990

SHEET No. 1 OF 1 SHEETS

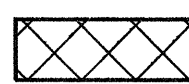
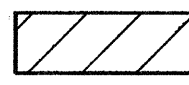

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| HAWAII | HAW. | 930B-01-90M | 1990 | 3 | 28 |

GENERAL NOTES

- The scope of work for this project consists of reconstructing and resurfacing existing pavement areas, constructing paved shoulders, cold planing, adjusting manholes, signing and striping.
- The Contractor's attention is directed to Subsection 107.13 - Public Convenience and Safety; Section 645 - Traffic Control and Subsection 107.21 - Contractor's Responsibility for Utility Property and Service of the Special Provisions.
- 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.
- The existence and location of underground utilities, manholes, 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 the work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- The exact locations and limits or areas to be reconstructed and cold planed shall be determined in the field by the Engineer.
- The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
- The Contractor shall remove and dispose of all existing raised pavement markers prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.
- All holes, depressions, and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V leveling course prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Mix No. V.
- Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, connecting approaches, side streets and driveways as shown on the plans and/or as directed by the Engineer.
- Dressing of shoulders, shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable excavated material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.
- Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.
- Earth swale shall be graded to drain. Earth swale shall not be paid for separately, but shall be considered incidental to the various contract items.
- Contractor shall provide for access to and from all existing driveways and streets at all times.
- All saw cutting work shall be considered incidental to Roadway Excavation.

- The Engineer shall notify affected mailbox owners between B Sta. 269+00 to B Sta. 279+00 to relocate mailboxes a minimum of 12" from the outside edge of paved shoulder.
- The Contractor shall notify in writing Mokuleia Land Company, 68-540 Farrington Highway, Waialua, Hawaii 96791, Attn. Mr. James Dowsett, Ranch Manager, one week prior to commencing work on the water system and any repaving operations in the immediate vicinity of the water manholes to be adjusted.
- Prior to cold planing over an existing structure, the Contractor shall determine the actual depth of the existing asphalt concrete pavement to be removed. The Contractor shall take several cross section measurements throughout the structure. The depth of the pavement shall be the difference from the top of the asphalt concrete pavement to the top of the slab or deck of the structure. This work shall be considered to be incidental to cold planing.
- In cold planing the pavement over the structure, the Contractor shall exercise care not to damage any portion of the structure especially the slab, joints, drain pipes or reinforcement. Any damage to the structure during the cold planing operations shall be repaired by the Contractor at his own expense. Repair work shall be as directed by the Engineer.

LEGEND

-  Reconstruction Areas
-  Cold Planing Areas
-  Resurfacing Limits
- °jp Existing Joint Pole
- °pp Existing Power Pole
- e— Existing Electrical Line
- w—8— Existing Water Line
- Jts— Existing Joint Trunking System Line
- °wmh Existing Water Manhole
- °ts Existing Traffic Sign
- mb Existing Mailbox

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| DESIGNED BY | DATE |
| DRAWN BY | |
| CHECKED BY | |
| NOTED BY | |
| QUANTITIES BY | |
| REVISIONS | |

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| 6/28/90 | Added Gen. Note Nos. 17 & 18 as per Addendum No. 1 |
| DATE | REVISION |

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| STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION |
| GENERAL NOTES AND LEGEND |
| FARRINGTON HIGHWAY RESURFACING Mokuleia Homestead Road towards Kaena State Park PROJECT NO. 930B-01-90M |
| Date: May, 1990 |
| SHEET No. 1 OF 1 SHEETS |