

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-H1-1(216)	1994	2	32

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	r07/16/90
B-13	Prestressed Concrete Piles	r07/16/90

D-01 ●	Chain Link Fence With Toprail	r03/06/87
D-02	Chain Link Fence Without Toprail	r07/26/90
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

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	r10/16/90
H-17	Inlet Structures	r10/16/90
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	r02/15/91
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	r10/16/90
H-23	Hat Shaped Coupling Band	r10/16/90

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	r11/03/89
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 ●	Supports for Ground Mounted Guide Sign	r11/03/89
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	r05/09/90
TE-31 ●	Miscellaneous Pavement Markings	r05/09/90
TE-32 ●	Miscellaneous Pavement Markings	r05/09/90
TE-33 ●	Miscellaneous Pavement Markings	r11/03/89
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	r11/03/89
TE-39 ●	Traffic Signal System, Miscellaneous Details	07/01/86
TE-40 ●	Loop Detectors	r11/03/89
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	r11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	r09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	r11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3, Thrie Beam	r11/03/89
TE-57A ●	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59 ●	Trailing End Flare, One & Two Way Roadway	r11/03/89
TE-60 ●	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r11/03/89
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87
TE-64 ●	Portable Concrete Barrier	r11/03/89
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	r11/03/89
TE-69 ●	Wheelchair Ramps	r11/03/89

02/15/91	REVISED STANDARD PLAN H-19
10/16/90	REVISED STANDARD PLANS H-16,H-17, H-22 & H-23.
07/26/90	REVISED STANDARD PLANS D-02.
07/16/90	REVISED STANDARD PLANS B-12,B-13,
05/09/90	REVISED STANDARD PLANS TE-30,TE-31, & TE-32.
11/03/89	REVISED STANDARD PLANS TE-06,TE-23, TE-30, TE-31, TE-32, TE-33, TE-38, TE-40, TE-52, TE-54, TE-55, TE-57, TE-59, TE-61, TE-64, TE-68 & TE-69.
	ADDED TE-57A TO STANDARD PLANS
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-59, TE-59, TE-61, TE-63 & TE-64.

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**STANDARD PLANS SUMMARY**  
**INTERSTATE ROUTE H-1**  
**Eastbound Off-Ramp Improvements**  
**at Pal1 Highway**  
**F.A. Project No. IM-IR-H1-1(216)**  
*Date: Dec., 1992*  
SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	12-24-92
QUANTITIES BY	DESIGNED BY	
CHECKED BY	IN CHARGE	



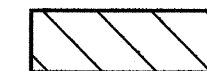

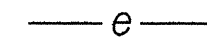







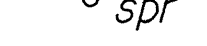

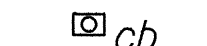





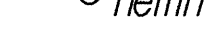
GENERAL NOTES:

1. The scope of work for this project includes removing obstructions; widening and reconstructing the existing roadway; cold planing; resurfacing; constructing a retaining wall; landscaping; relocating traffic signal and highway lighting system; signing; and installing overhead sign supports, guardrails, and pavement markings.
2. 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.
3. 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.
4. 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 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.
5. The Contractor shall notify the Oahu Transit Services, Inc. Roads Supervision Office, 811 Middle St., Honolulu, HI 96819 (ph. no. 848-4571) seven (7) days prior to any paving operations.
6. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.
7. The Contractor shall remove and dispose of all existing pavement markings 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 separately.
8. 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.
9. 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.
10. Contractor shall provide for access to and from all existing driveways and streets at all times.
11. All existing joints and all cracks  $\frac{1}{8}$ " or greater in P.C.C. Pavement shall be cleaned and sealed with an A.C. crack sealer as specified in Section 647 - Joint and Crack Filling. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV, and will not be paid for separately.
12. All saw cutting work shall be considered incidental to Cold Planing and will not be paid for separately.
13. The exact locations and limits or areas to be cold planed shall be determined in the field by the Engineer.

14. The vertical pavement drop-off shall not exceed  $1\frac{1}{2}$ -inches. If a vertical pavement drop-off exists at the end of each day's cold planing and paving, the Contractor shall provide a wedge with a 12:1 minimum transition taper for transverse drop-off and no steeper than 6:1 for longitudinal drop-off, as approved by the Engineer. This work shall be considered incidental to Cold Planing.
15. Prime coat/ Tack coat shall be incidental to Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.
16. Contractor's attention is directed to Section 401.03 of the Special Provisions. All longitudinal and transverse tapers within the traveled way shall be removed prior to commencing and continuing of paving operations.
17. The Contractor shall be held liable for any damages incurred to the remaining existing trees as a result of his operations.
18. The Contractor shall reconstruct the existing chain link fence prior to commencing any other work to provide security for the adjacent property.
19. After the project is completed, the Contractor shall restore grades and groundcover in the Construction Parcel to a condition similar or equal to that existing before such damage or injury was done.
20. Restoration of the Construction Parcel shall be paid for under Item No. 619.8100 - Planting Ground Cover, Syngonium Species, (Syngonium), 6-Inch Pots and Item No. 619.8500 - Planting Ground Cover, Wedelia Trilobata, (Wedelia), Rooting Cuttings.
21. Contact Robert Daley, General Manager of the Queen Emma Gardens Apartments at 538-7085 to coordinate sprinkler system removal.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-IR-H1-1(216)	1994	3	32

LEGEND

	Removal of Obstruction
	Resurfacing Limits
	Existing Electrical Line
	Existing Water Line
	Existing Gas Line
	Existing Light Pole
	Existing Traffic Light
	Existing Signal Box
	Existing Walkway Light
	Existing Water Sprinkler Head
	Existing Storm Drain Manhole
	Existing Catch Basin
	Existing Water Manhole
	Existing Fire Hydrant
	Existing Water Meter Box
	Existing Telephone Manhole
	Existing Electric Manhole
	Existing Electric Handhole
	Existing Water Sprinkler Head to be Removed

6-6-94 Revised General Notes per Addendum No. 1.

DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**GENERAL NOTES AND LEGEND**  
**INTERSTATE ROUTE H-1**  
**Eastbound Off-Ramp Improvements**  
**at Palii Highway**  
**F.A. Project No. IM-IR-H1-1(216)**

Date: Dec., 1992

SHEET No. 1 OF 1 SHEETS

ADD. 3

ORIGINAL PLAN	DESIGNED BY	DATE
NOTE BOOK	DESIGNED BY	DATE
QUANTITIES BY	QUANTITIES BY	DATE
CHECKED BY	CHECKED BY	DATE