

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(27)	1992	2	223

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 PLANS 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.
09/01/87	ADDED TE-57A TO STANDARD PLANS. 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

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 RTE. H-2, HOV LANES, PH. II
Milliani Interchange to Waipio Interchange
F.A.I. PROJECT NO. IR-H2-1(27)

Date: April, 1992

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY _____ DATE _____

ORIGINAL PLAN _____

DRAWN BY _____

TRACED BY _____

DESIGNED BY _____

CHECKED BY _____

NOTE BOOK _____

No. 112655.dgn

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H2-1(27)	1992	3	223

GENERAL NOTES

1. The scope of work for this project consists of constructing an additional lane in the Inbound and Outbound directions which work includes grading, constructing P.C.C. pavement, installing pavement underdrains, new metal guardrails, concrete barrier and retaining walls, new overhead sign support structures with new overhead signs, relocating highway lighting standards, constructing drainage improvements, and striping, pavement markers and traffic signs.
2. The Contractor's attention is directed to Subsection 107.13 - Public Convenience and Safety and Section 645 - Traffic Control 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. All damaged portions shall be replaced in accordance with the Standards and Specifications of the State and/or the affected utility company.
5. The Contractor shall preserve the existing cement treated base within the new P.C.C. widening area. The existing cement treated base extends approximately one foot into the existing median and outer shoulder.
6. The Contractor shall construct all P.C.C. pavement joints and tie bar installations in accordance with the details shown on Plan Sheet No. 21, the Special Provisions and as directed by the Engineer.
7. New P.C.C. pavement is to be longitudinally grooved as specified in Subsection 411.03(M)(7) of the Special Provisions.
8. All cut and fill slopes and other areas as designated by the Engineer shall be hydro-mulched with bermuda grass seed (Cynodon Dactylon). See Section 641 of the Standard Specifications.
9. Temporary Erosion and Siltation Control Measures shall be in accordance with Section 639-Temporary Project Water Pollution Control (Soil Erosion). This work will be considered incidental to Item No. 203.0100-Roadway Excavation.
10. The Boring Log Information on Plan Sheet Numbers 209 through 223 are from previous construction projects. The Boring Log Information is for Information Only and the State Department of Transportation assumes no responsibility as to the accuracy and/or sufficiency of the Boring Information and of any interpretation thereof and will make no guarantee of the same.
11. The areas shown in the plans for reconstruction of existing P.C.C. Pavement are approximate and dimensions shown are for bidding purposes. Areas to be reconstructed shall be 12' wide and shall be the entire slab between existing transverse contraction joints. All slabs, including existing C.T.B., shall be saw-cut prior to excavation. The exact locations and limits shall be determined in the field by the Engineer.

GEOTEXTILE PERMEABLE SEPARATOR SCHEDULE		
INBOUND LOCATION (STATION TO STATION)	OFFSET (FT.)	AREA (SQ. YD.)
I.B. Sta. 206+00 to Sta. 225+00	0 to 19 Lt.	4,167
Sta. 246+10 to Sta. 262+00	1 to 10 Rt.	1,885
Sta. 287+00 to Sta. 297+69.64	46 to 68 Rt.	2,813
I.B. Sta. 297+69.64 to Sta. 313+50	12 to 34 Rt.	4,156
I.B. Sta. 321+60 to Sta. 330+00	24 to 42 Lt.	1,610
I.B. Sta. 350+00 to Sta. 363+51	24 to 33 Lt.	1,602
I.B. Sta. 366+50 to Sta. 383+22	24 to 42 Lt.	3,017
Sub-Total - Inbound		19,250
OUTBOUND LOCATION (STATION TO STATION)	OFFSET (FT.)	AREA (SQ. YD.)
Sta. 191+05 to Sta. 198+00	12 to 22 Lt.	914
O.B. Sta. 198+00 to Sta. 213+00	0 to 10 Rt.	1,972
O.B. Sta. 214+98 to Sta. 222+40	36 to 58 Lt.	1,457
Sta. 246+80 to Sta. 263+00	34 to 68 Lt.	5,414
Sta. 278+00 to Sta. 291+50	46 to 68 Lt.	3,551
O.B. Sta. 313+00 to Sta. 330+17.73	46 to 68 Lt.	3,958
O.B. Sta. 332+50 to Sta. 350+02.07	10 Lt. to 8 Rt.	3,282
O.B. Sta. 350+00 to Sta. 354+05	1 to 10 Lt.	487
Sub-Total - Outbound		21,035
TOTAL - Inbound and Outbound		40,285

LEGEND

P.C.C.	Portland Cement Concrete Pavement
P.C.T.P.B.	Portland Cement Treated Permeable Base Course
A.C.B.	Asphalt Concrete Base Course
C.T.B.	Cement Treated Base
A.B.	Aggregate Base Course
A.S.	Aggregate Subbase Course
ee	Existing Edge of Pavement
ees	Existing Edge of Shoulder
grpsp	Existing Grouted Rubble Paving Slope Protection
E.P.	New Edge of Pavement
E.S.	New Edge of Shoulder
E.E.L.	New Edge of HOV Enforcement Lane
—catv—	Existing Cable TV Line
==d==24==	Existing Drain Line
—g—	Existing Gas Line
—pvc—2—	Existing PVC Line
—sp—	Existing Sprinkler Line
—t—	Existing Telephone Line
—w—	Existing Water Line
○sdmh	Existing Storm Drain Manhole
○pp	Existing Electric Pole
○lp	Existing Light Standard
○av	Existing Water Air Valve
⊗wv	Existing Shut-off Water Valve
□pb	Existing Pullbox
⊙mon	Existing Monument
[-]cb	Existing Catch Basin
□dd	Existing Deck Drain
[-]cdi	Existing Concrete Drop Intake
[-]c	Existing Controller for Sprinkler System
[-]cab	Existing Weatherproof Cabinet on Concrete Pad
[-]cd	Existing Loop Detectors
[-]g	Existing Guardrail
[-]n	New Guardrail
---	Right-of-Way Line

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
NO. 11/20/92	QUANTITY BY	
	CHECKED BY	

8/7/92 Added General Note No. 11 and Geotextile Permeable Separator Schedule.

DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES, LEGEND & GEOTEXTILE SCHEDULE
INTERSTATE RTE. H-2, HOV LANES, PH. II Mililani Interchange to Waipio Interchange F.A.I. PROJECT NO. IR-H2-1(27)
Date: April, 1992
SHEET No. 1 OF 1 SHEETS