GENERAL NOTES

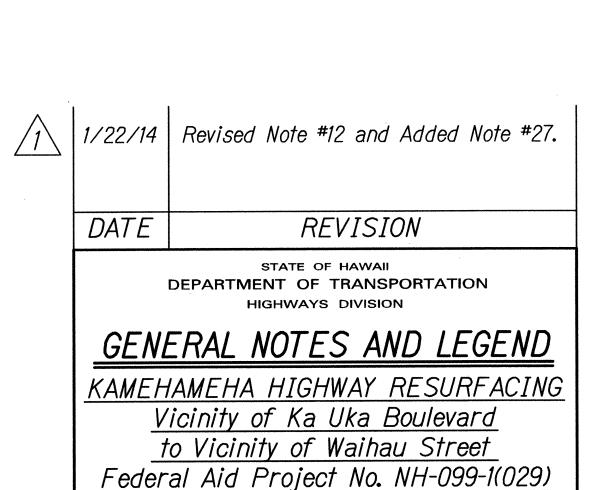
- 1. The scope of work for this project consists of cold planing; asphalt paving; shoulder widening; applying pavement striping and marking; installing sidewalks and concrete bus pads; reconstructing concrete gutters; and replacing guardrails, end treatments and signs. The Kipapa Bridge (Roosevelt Bridge) is excluded from the project.
- 2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
- 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 location and existence of underground utilities, manholes, monuments and other 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 make an independent check on the ground by probing and/or checking with the various utility companies and government agencies to verify the exact locations and depths of the existing utilities and obstructions. The Contractor shall exercise proper care in excavating and cold planing in the area. Whenever connections of new utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavating new lines. 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 or repaired in accordance with the standards and specifications of the affected utility company at the Contractor's expense.
- 6. The Contractor shall notify in writing, the Oahu Transit Services, Inc. (Tel. No. 848-4571) two (2) weeks prior to construction, informing them of location, scope of work, closure of the name of the highway and/or traffic lanes, and dates of closure.
- 7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
- 8. 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 damages shall be at the Contractor's own expense, to the satisfaction of the Engineer.
- 9. Existing drainage system shall 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 the various contract items.
- 10. Earth swale shall be graded to drain. This work shall be considered incidental to the various contract items.
- 11. 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 the various contract items.
- $/1 \setminus 12$. All saw cutting and safety edge work shall be considered incidental to Hot Mix Asphalt Pavement, Mix No. IV.
 - 13. Dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. Suitable materials shall include materials from roadway excavation, including topsoil and base material therefrom and if necessary, additional materials from borrow outside the limits of the right of way. This Work shall be considered incidental to the various contract items.

- 14. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks, ADA access routes, side streets and cross streets at all times. This work shall be considered incidental to the various contract items.
- 15. 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 Hot Mix Asphalt Pavement, Mix No. IV.
- 16. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated 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.
- 17. The exact locations and limits of areas to be filled with leveling course, cold-planed, reconstructed, or excavated shall be determined in the field by the Engineer.
- 18. All holes, depressions and wheel ruts shall be filled and compacted with Hot Mix Asphalt Pavement, Mix No. V prior to resurfacing. This work shall be considered incidental to the various contract items.
- 19. Prior to his paving operations, the Contractor shall be responsible for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished grade. The Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, gas, electrical, telephone and cable utilities, etc. to be adjusted to the new finished grade.
- 20. After completion of resurfacing, the Contractor and the Engineer will test for and determine ponding areas (i.e. low spots within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas at no cost to the State.
- 21. The Contractor shall verify the presence of existing aerial and underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation, as necessary. All costs associated with the temporary relocation shall be borne by the Contractor.
- 22. The Contractor shall obtain all necessary permits prior to start of work at his own cost.
- 23. The exact locations and limits of guardrail improvements shall be determined in the field by the Engineer.
- 24. The Contractor shall submit maintenance plans and schedules, including traffic detours, road or lane closures, lane switches, and the placement of temporary traffic control devices, to the Engineer for acceptance prior to construction.
- 25. No section where guardrails have been removed shall be left unshielded at the end of each work day. Open sections shall be shielded by portable physical barriers. Furnishing, installing and maintaining physical barriers shall be considered incidental to the various contract items.
- 26. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to the various contract items.
- /1\ 27. The Contractor shall allow only one truck to cross Kipapa Bridge at a time during road closure hours. Truck weight shall not exceed 32 tons. Maximum weight limit for the Kipapa Bridge is 32 tons. Contractor must have a permit to operate or transport overweight vehicles and load over State Highways. This permit is obtained from the State Department of Transportation, Oahu District Office, 727 Kakoi Street.

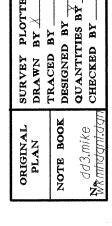
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-099-1(029)	2014	ADD.3	84

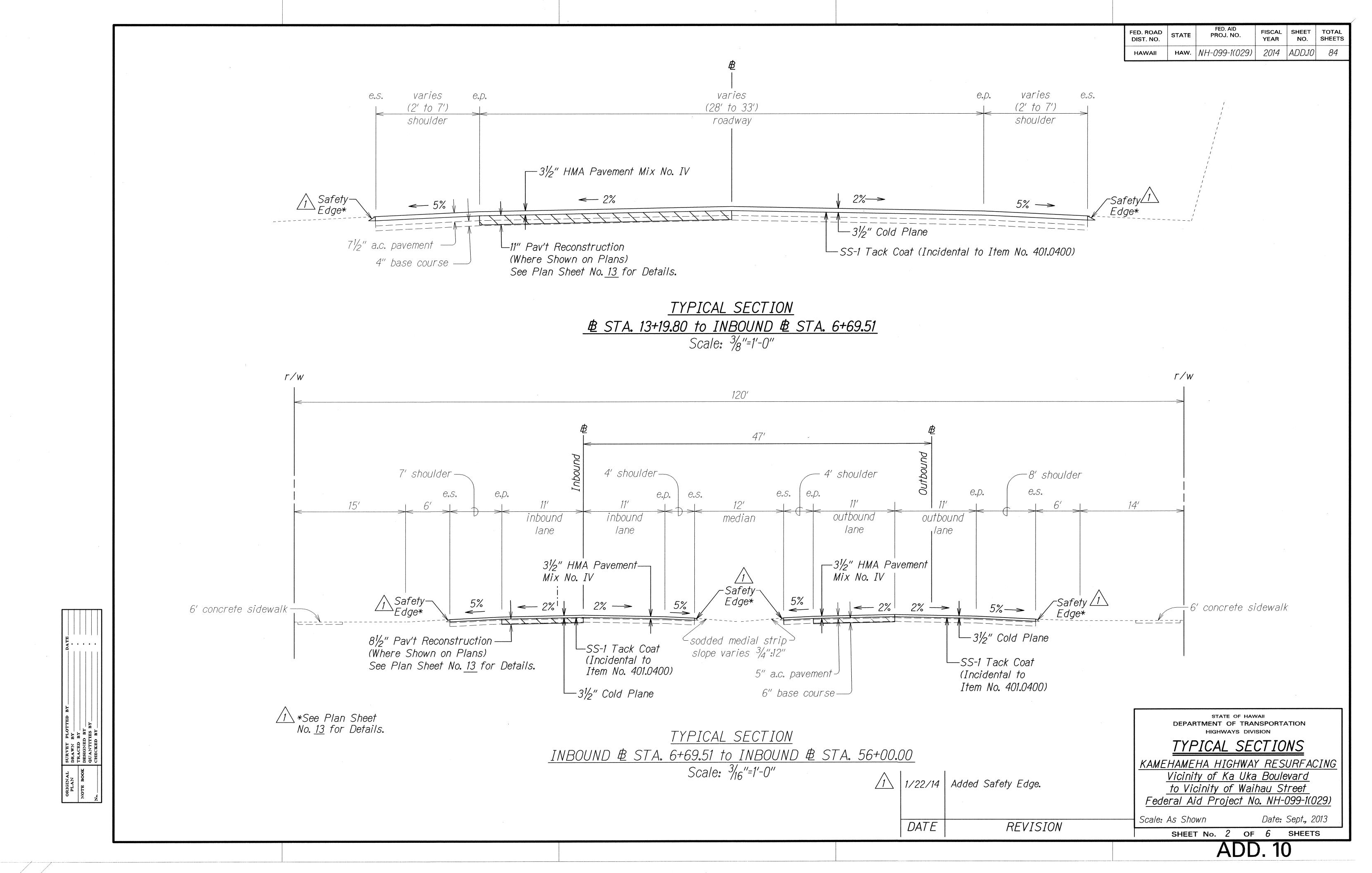
LEGEND

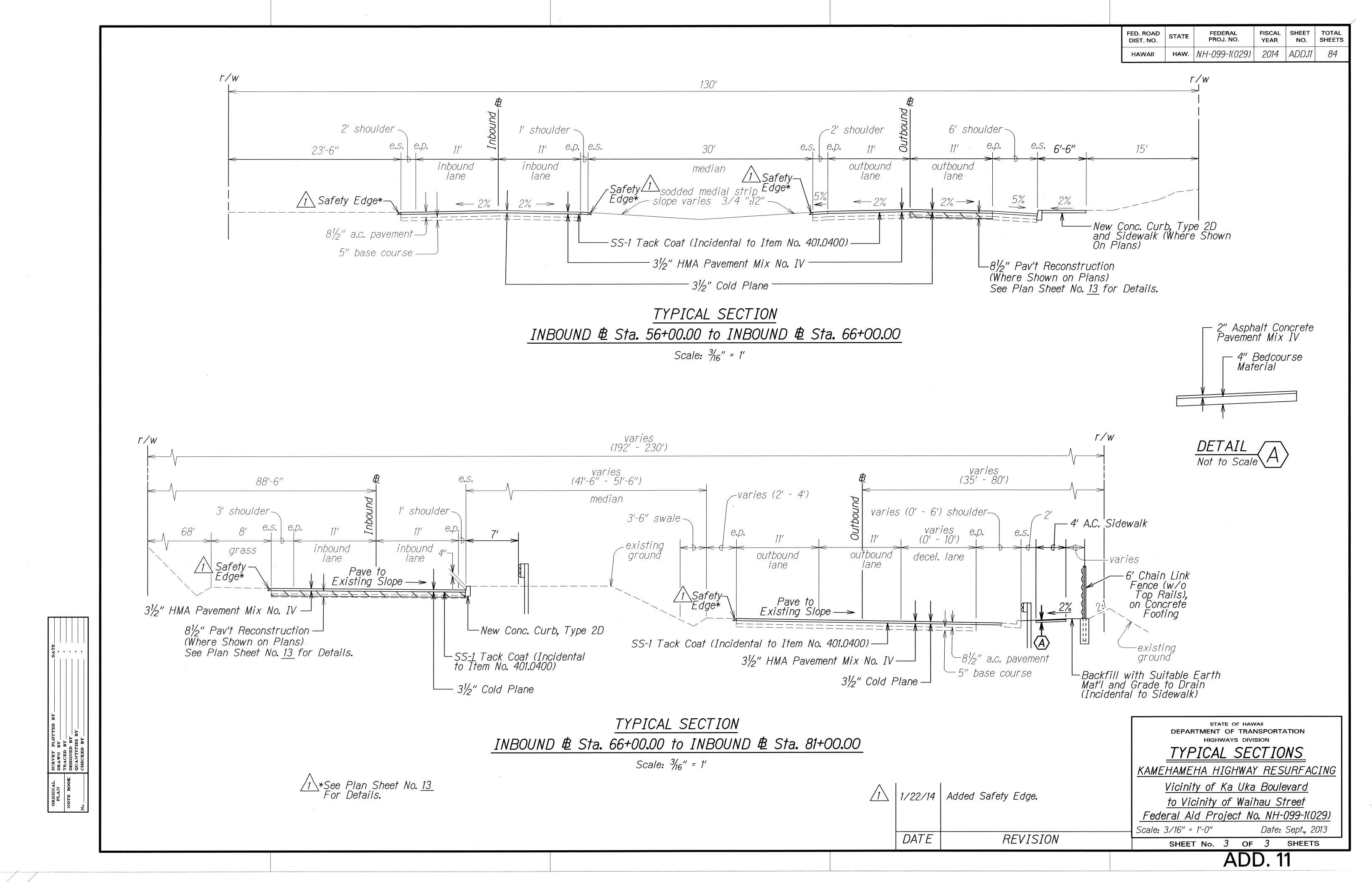
	A	Concrete Areas	°smh	Existing Sewer Manhole
		Reconstruction Areas	SMH	Adjusted Sewer MH Frame/Cover
			•SMH	New Sewer Manhole
		Cold Planing Areas —	-g-6-	Existing 6" Gas Line
		Resurfacing Limits —	—G—6—	New 6" Gas Line
	e	Existing Electrical Line	°gv	Existing Gas Valve Box Adjusted Gas Valve Box
	——E——	New Electrical Line	G V	Existing Gas Manhole
	° j.P	Existing Joint Pole	°gmh ° GMH	Adjusted Gas MH Frame/Cover
	$^{\circ} ho ho$	Existing Power Pole	©mon.	Existing Monument
	°emh	Existing Electric Manhole	mon. ⊚ MON.	Adjusted Monument
	[™] EMH	Adjusted Elec. MH Frame/Cover		Existing 24" Drain Line
	<i>T</i>	Externing recopilions Ente		New 24 " RCP Drain Line
	01.	New Telephone Line = Existing Telephone Pole		Existing Storm Drain Manhole
	°tp °tmh	Existing Telephone Manhole		Adjusted Storm Drain MH
	•TMH	Adjusted Tele. MH Frame/Cover		Frame/Cover
		Existing Signal Corps Line	SDMH	New Storm Drain Manhole
	——SC——	New Signal Corps Line	gdi	Existing Grated Drop Inlet
		Existing TV Cable		Existing Catch Basin
		New TV Cable	psign	Existing Traffic Sign
	—— A. I.C. ——	Existing Sandwich Isles Communication Line	Ŷ.	Existing Highway Lighting
	w12	Existing 12" Water Line	6 Dl	Standard
	owmh	Existing Water Manhole	σ	Existing Highway Lighting Pullbox
	WMH	Adjusted Water MH Frame/Cover	0	Existing Traffic Signal Pole
	°av	Existing Water Air Valve	${}^{\bullet}TSP$	New Traffic Signal Pole
	• AV	Adjusted Water Air Valve New Water Air Valve	' 0	Existing Traffic Signal Pullbox
	•AV ○wv	Existing Water Valve Box		Adjusted Traffic Signal Pullbox New Traffic Signal Pullbox
	^w √ •wv	Adjusted Water Valve Box	, , ,	Existing Metal Guardrail
	w M	Existing Water Meter		New Metal Guardrail
	WM	Adjusted Water Meter	×	Existing Chain Link Fence
	ft.	Existing Fire Hydrant		New Chain Link Fence
	V	Existing Sewer Line		HOW CHAIN LINK I ONCO
-	—S—12—	New 12" Sewer Line		



Date: Sept., 2013 SHEET No. 1 OF 2 SHEETS

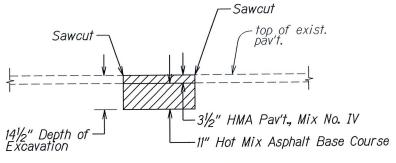




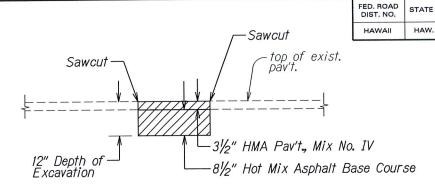


Notes:

- 1. Prior to placement of the asphalt base course, the exposed subbase or subgrade shall be recompacted to a dense and unyielding condition. The work shall be considered incidental to the Hot Mix Asphalt Base Course.
- 2. The minimum width of pavement reconstruction is shown on the plans. Additional reconstruction width required by the Contractor to adequately accommodate paving equipment for placement in accordance with the specifications is assumed to be 7' wide and has been accounted for in the estimated quantities for Hot Mix Asphalt Pavement Mix No. IV and Hot Mix Asphalt Base Course. Reconstruction widths greater than 7' for Contractor's convenience will not be paid.



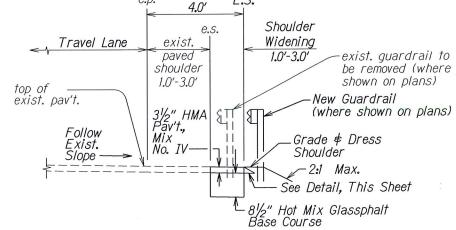




TYPICAL PAVEMENT
RECONSTRUCTION DETAIL
LANIKUHANA AVE. TO WAIHAU ST.

(B STA. 11+00 to B STA. 81+00)

Not to Scale

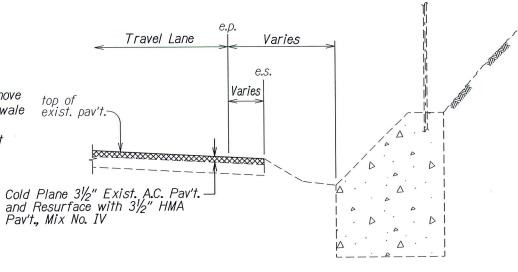


TYPICAL SHOULDER WIDENING DETAIL
FOR 8.0' GUARDRAIL POST
Not to Scale

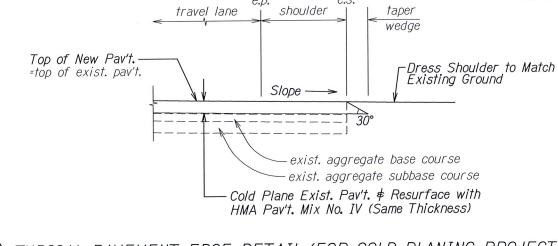
4.0'

e.p.

Note: On the Wahiawa side of Kipapa
Bridge, the Contractor shall remove
boulders and debris from the swale
including brooming off prior to
cold-planing/paving the adjacent
shoulder. See Hydraulics Plan
Sheets H3 to H4 for gutter
reconstruction details.



AT EXISTING CHAIN LINK BARRIER (near Kipapa Bridge) Not to Scale

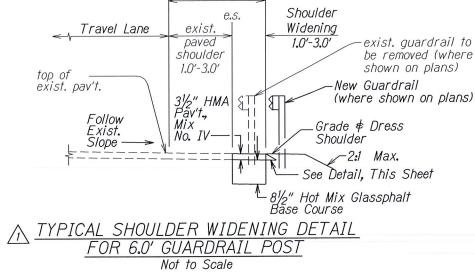


<u> TYPICAL PAVEMENT EDGE DETAIL (FOR COLD PLANING PROJECT)</u>

Not to Scale

Note: Contractor shall mount a device directly on the paver screed extension to provide a 30° beveled shoulder edge.





E.S.

DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

TYPICAL DETAILS

KAMEHAMEHA HIGHWAY RESURFACING
Vicinity of Ka Uka Boulevard
to Vicinity of Waihau Street
Federal Aid Project No. NH-099-1(029)

FISCAL YEAR

NH-099-1(029)

SHEET NO.

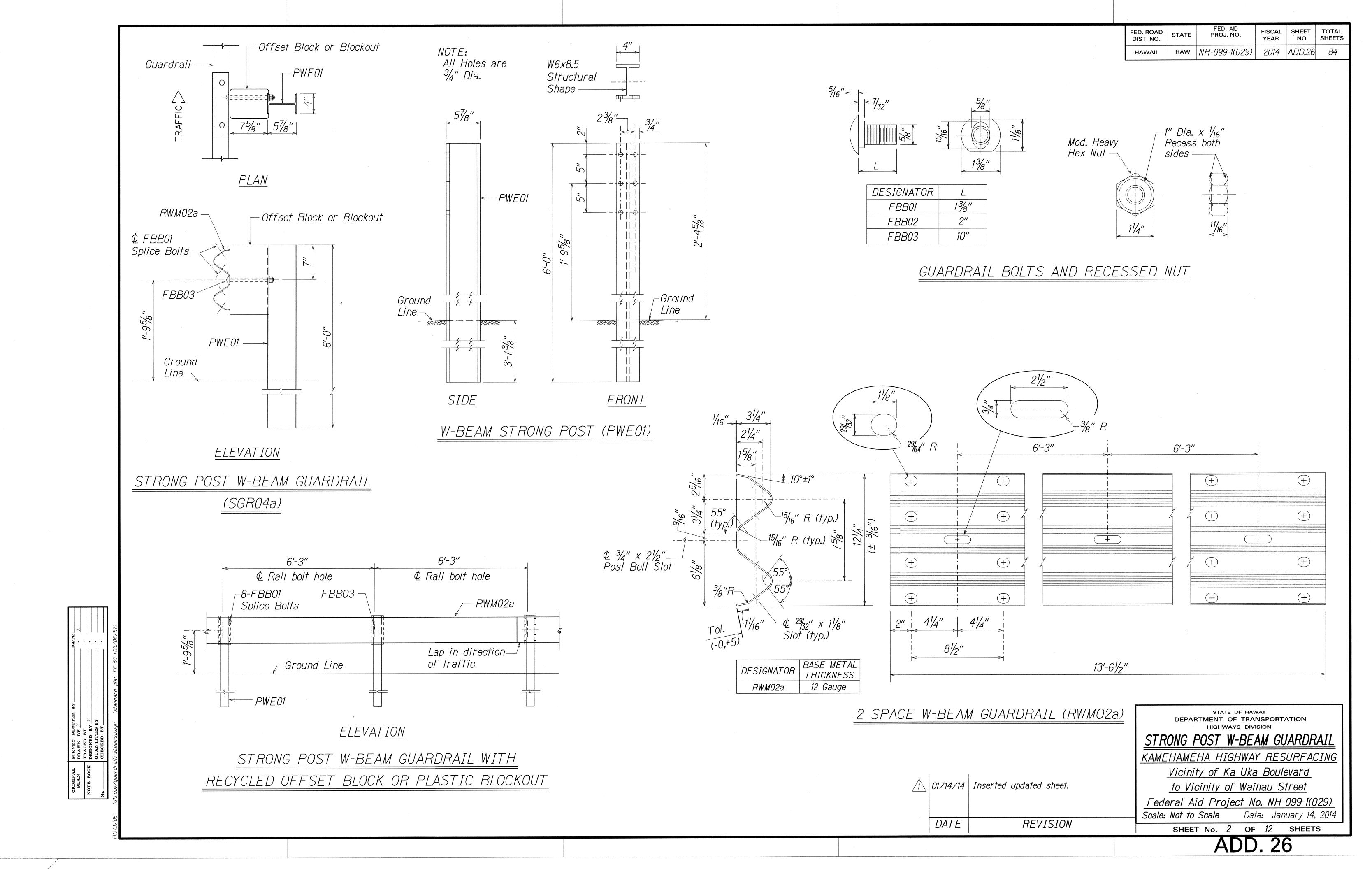
84

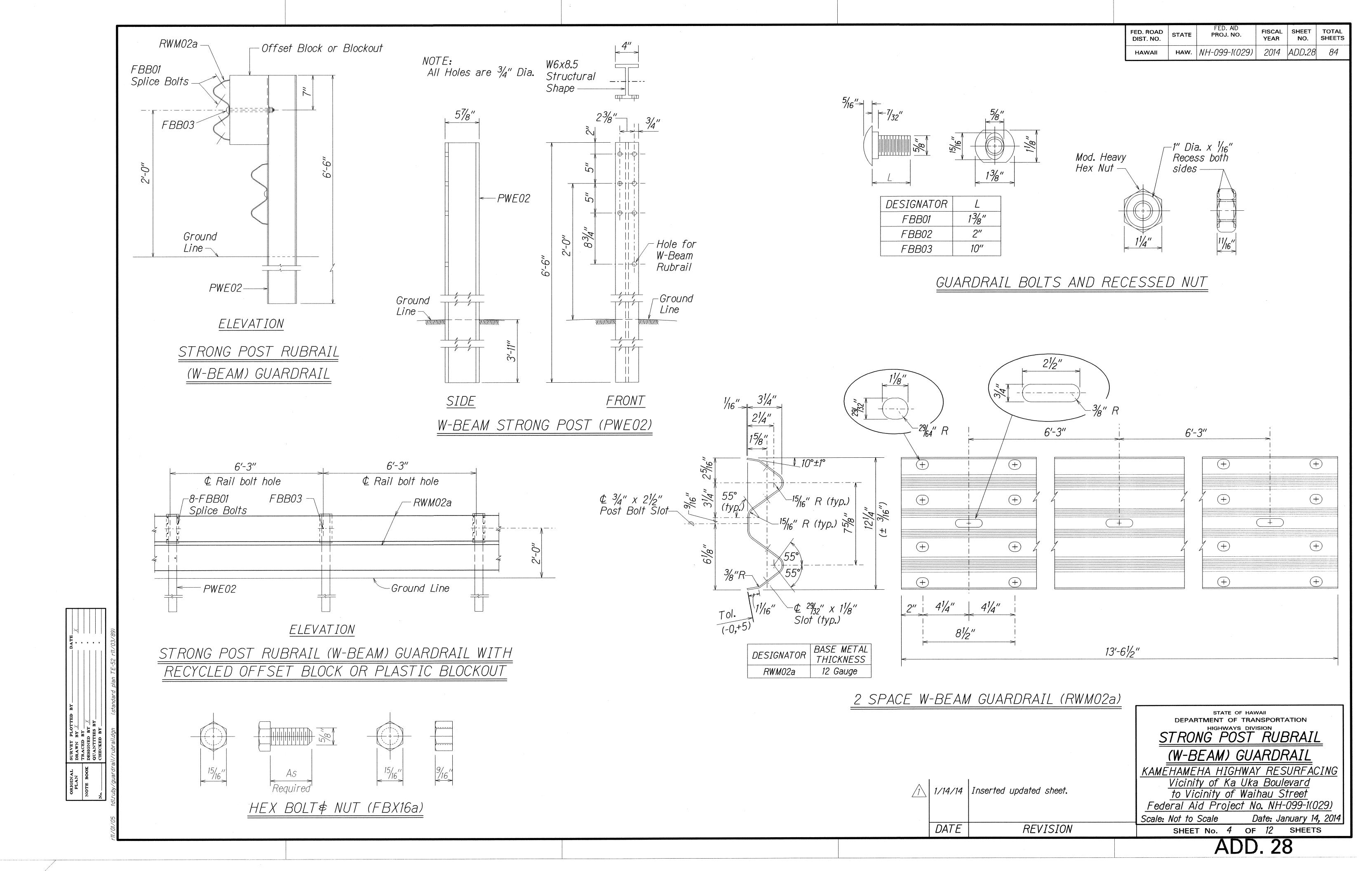
2014 ADD.13

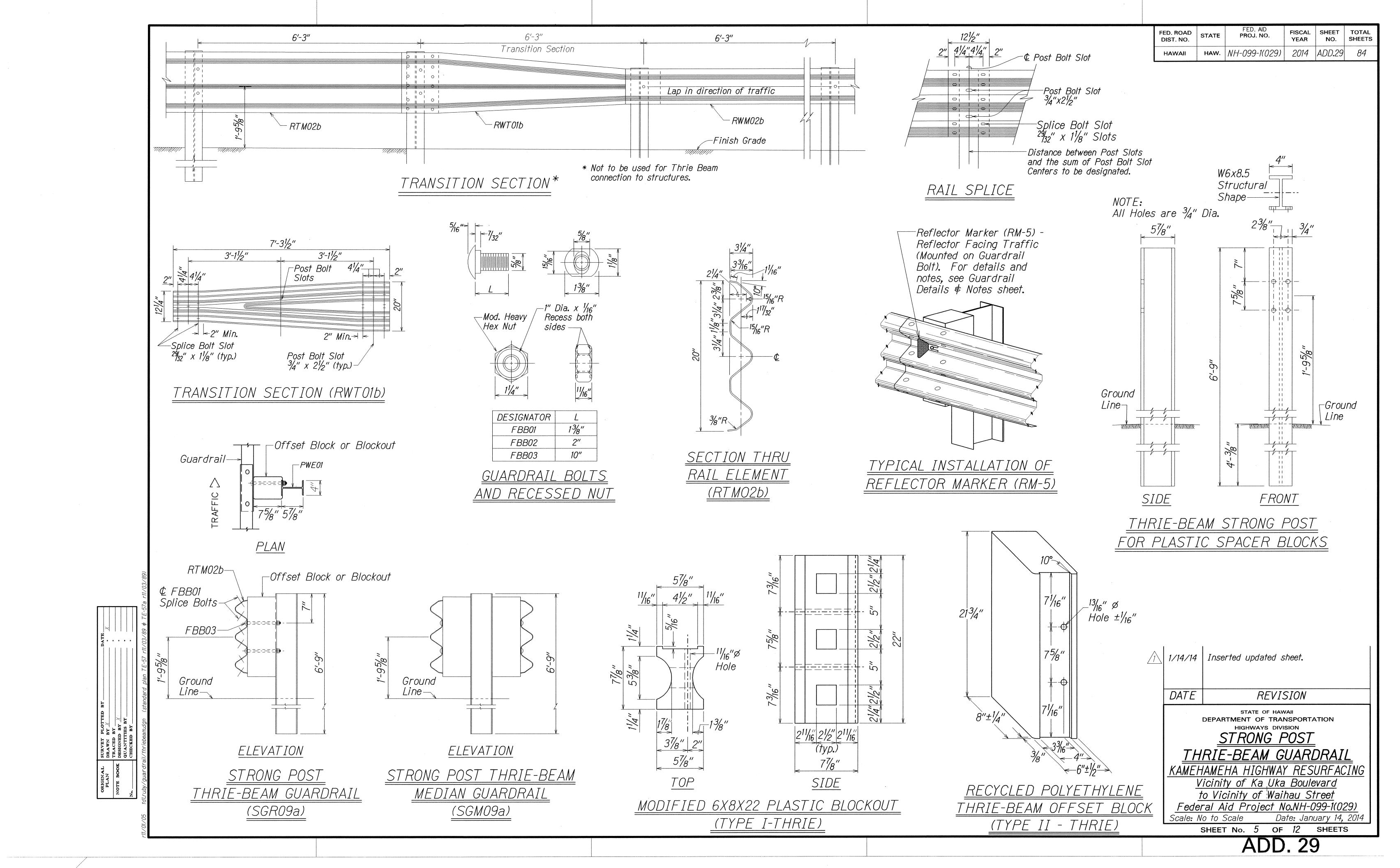
Scale: NTS

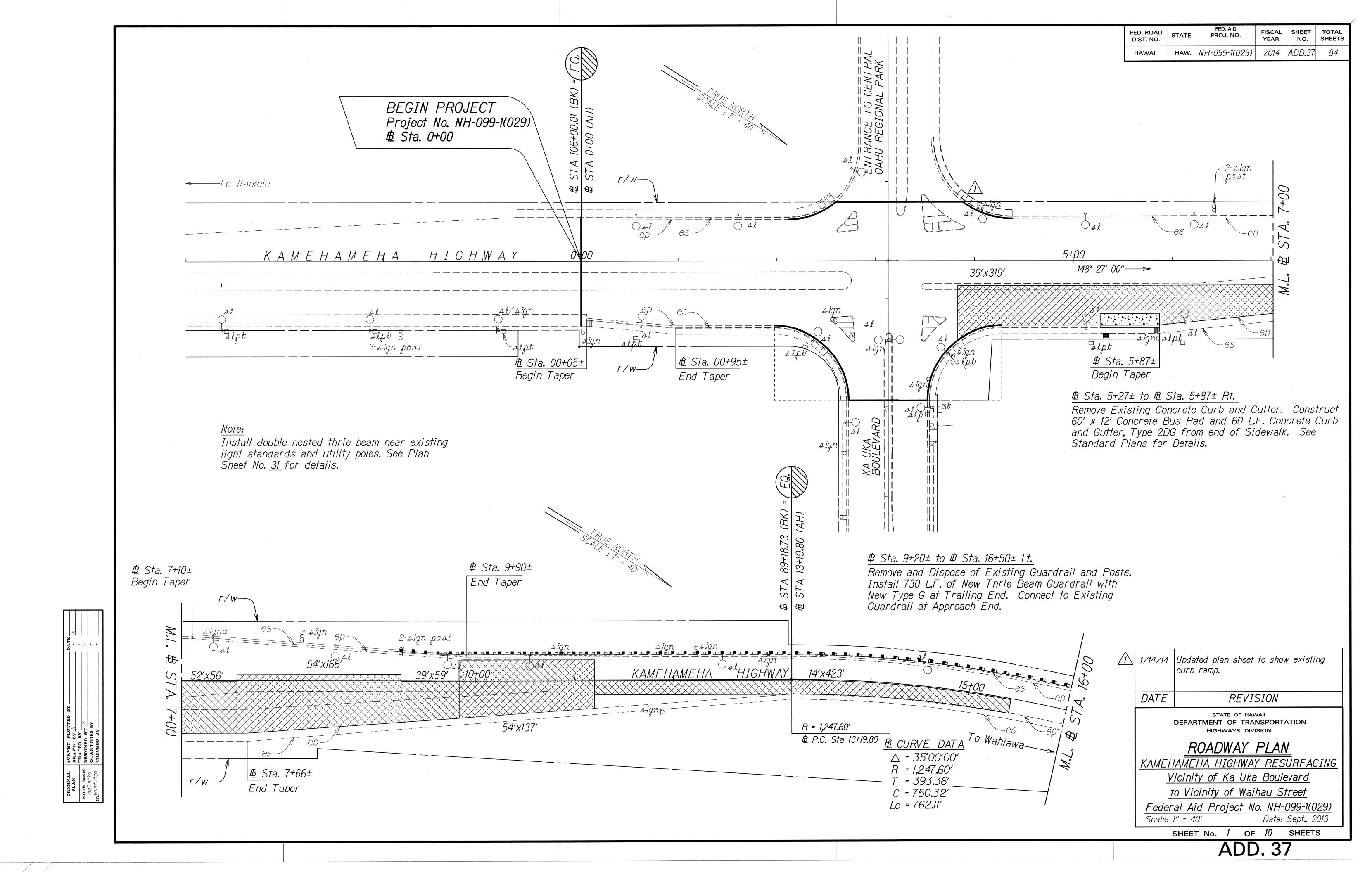
e: NTS Date: Sept., 2013
SHEET No. 2 OF 6 SHEETS

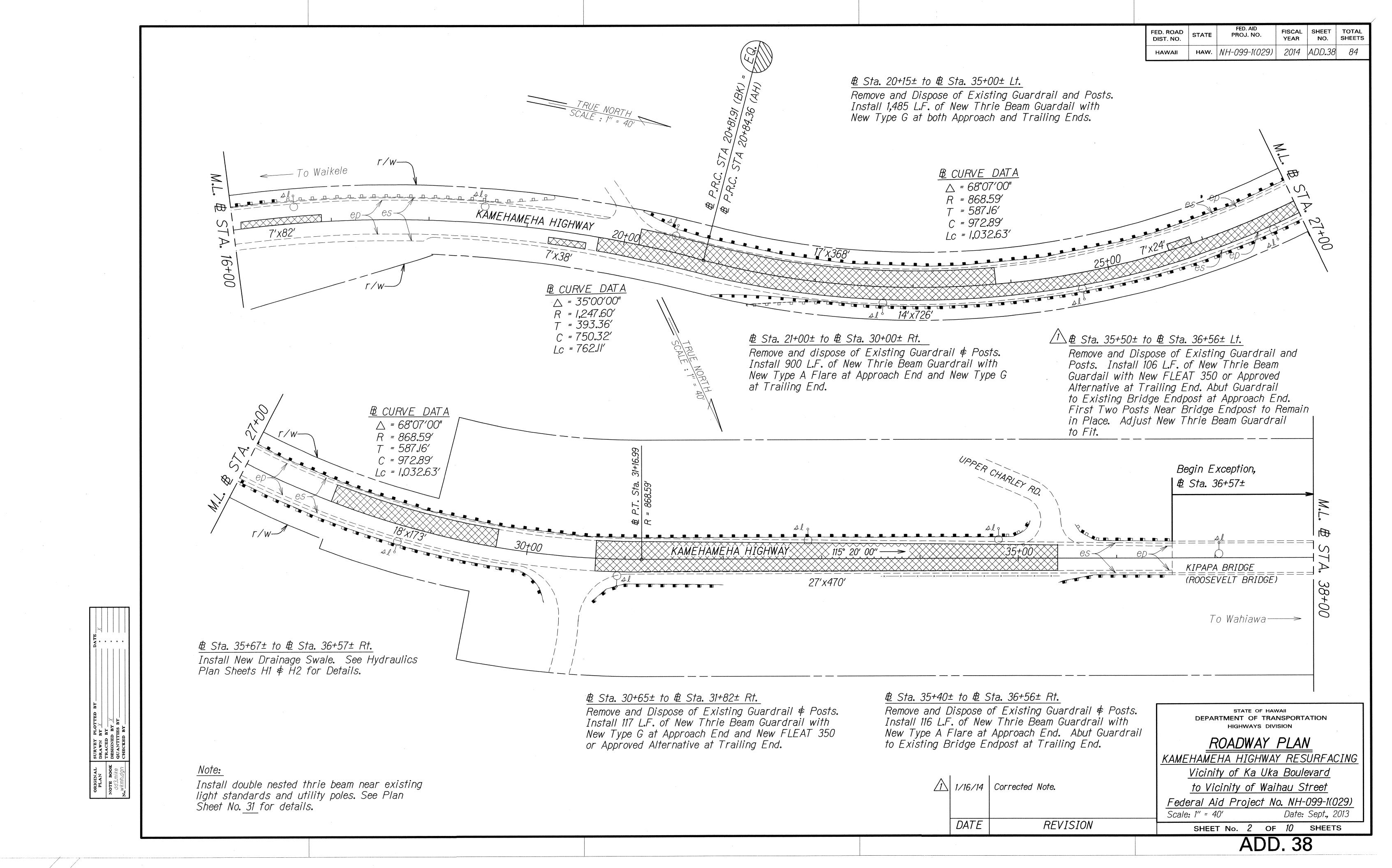
ADD, 13

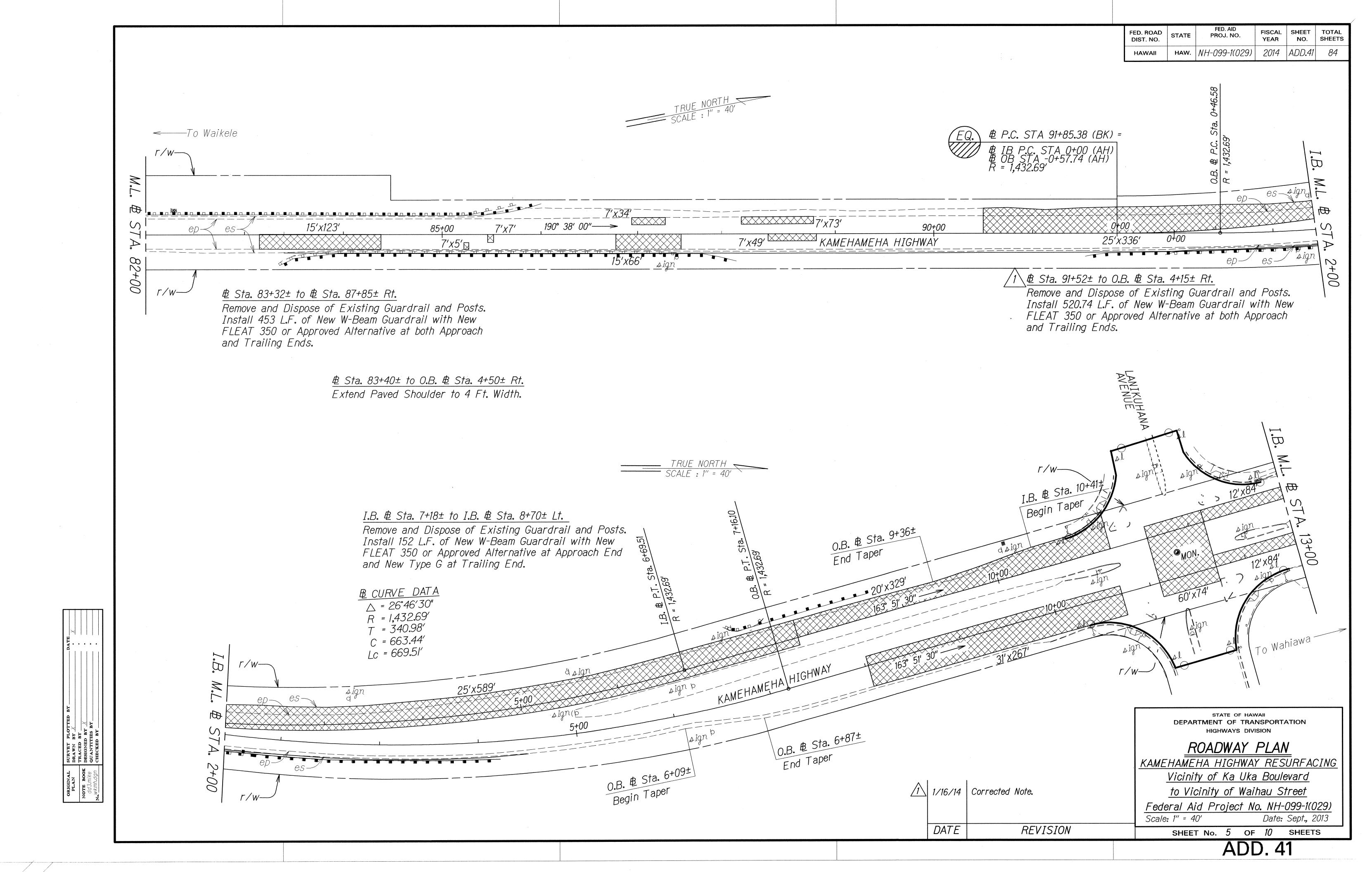


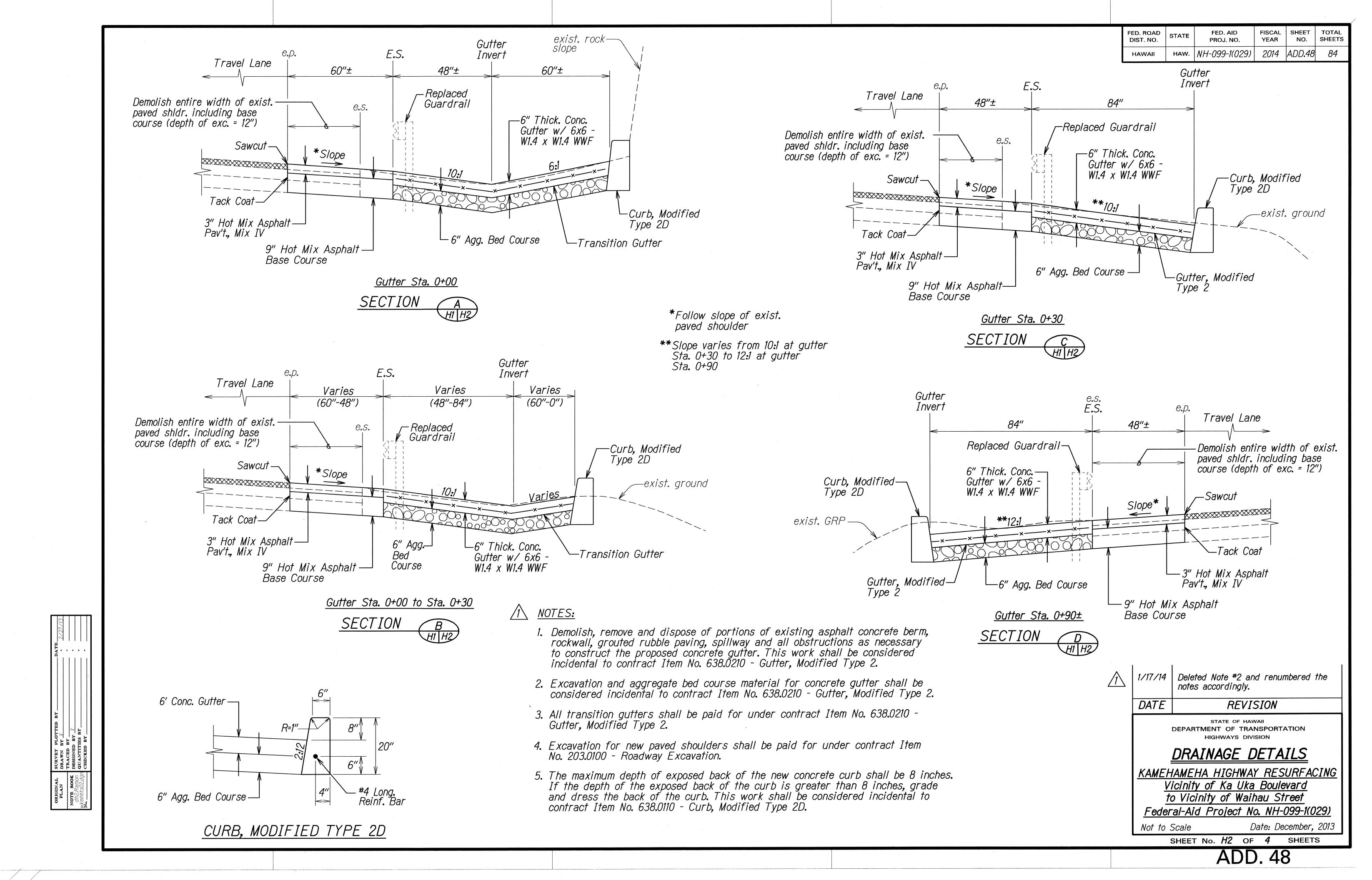


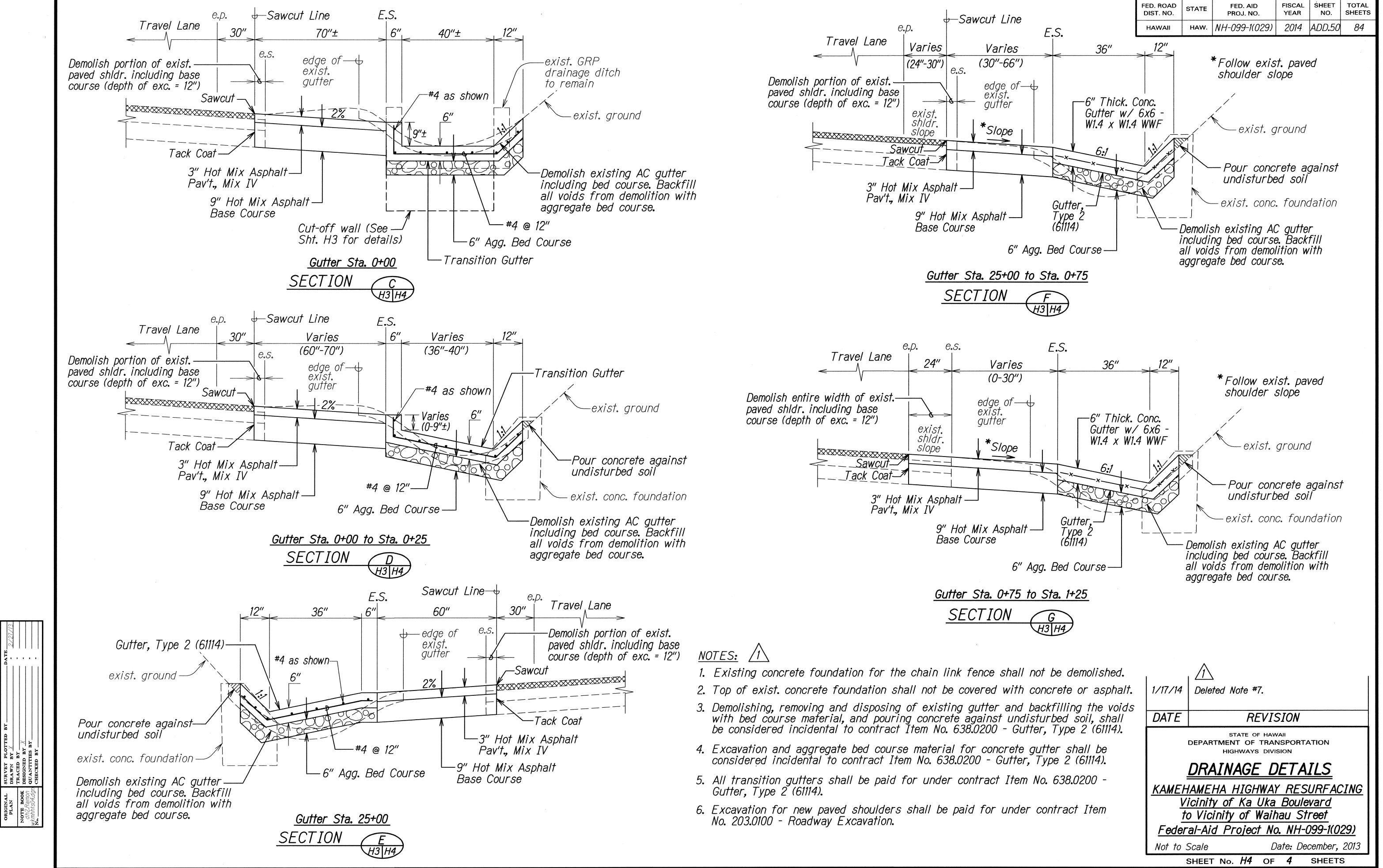


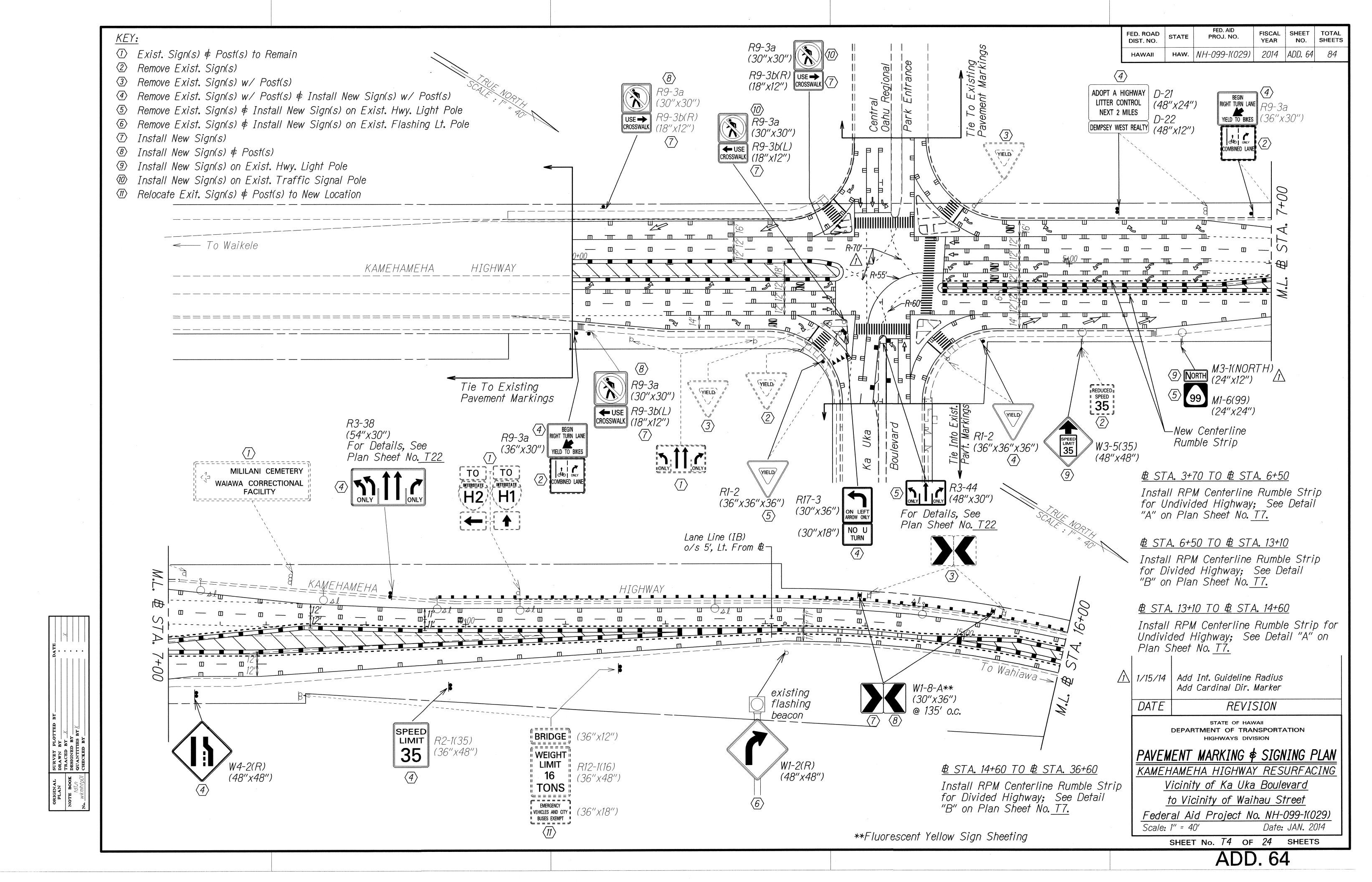


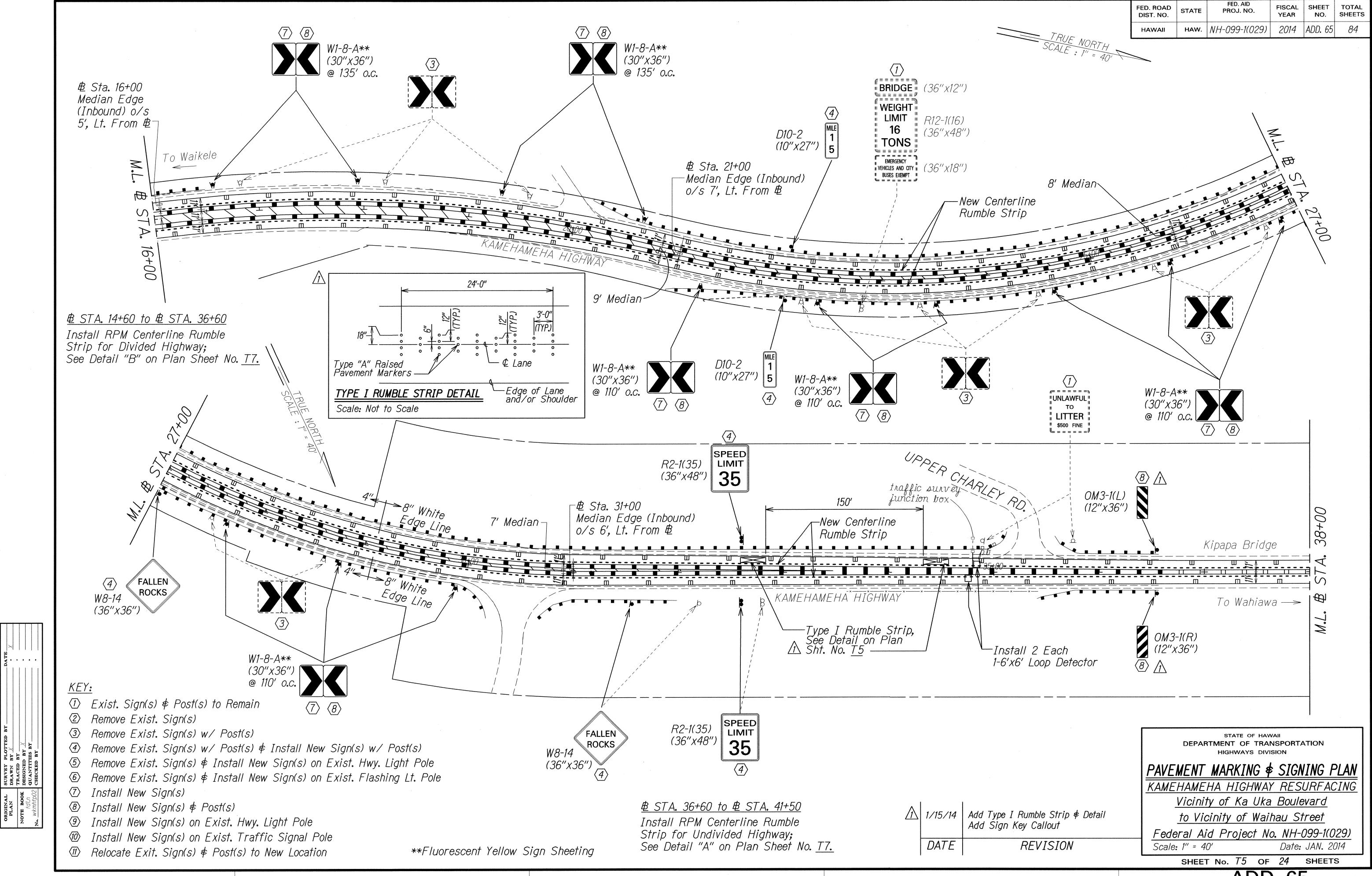


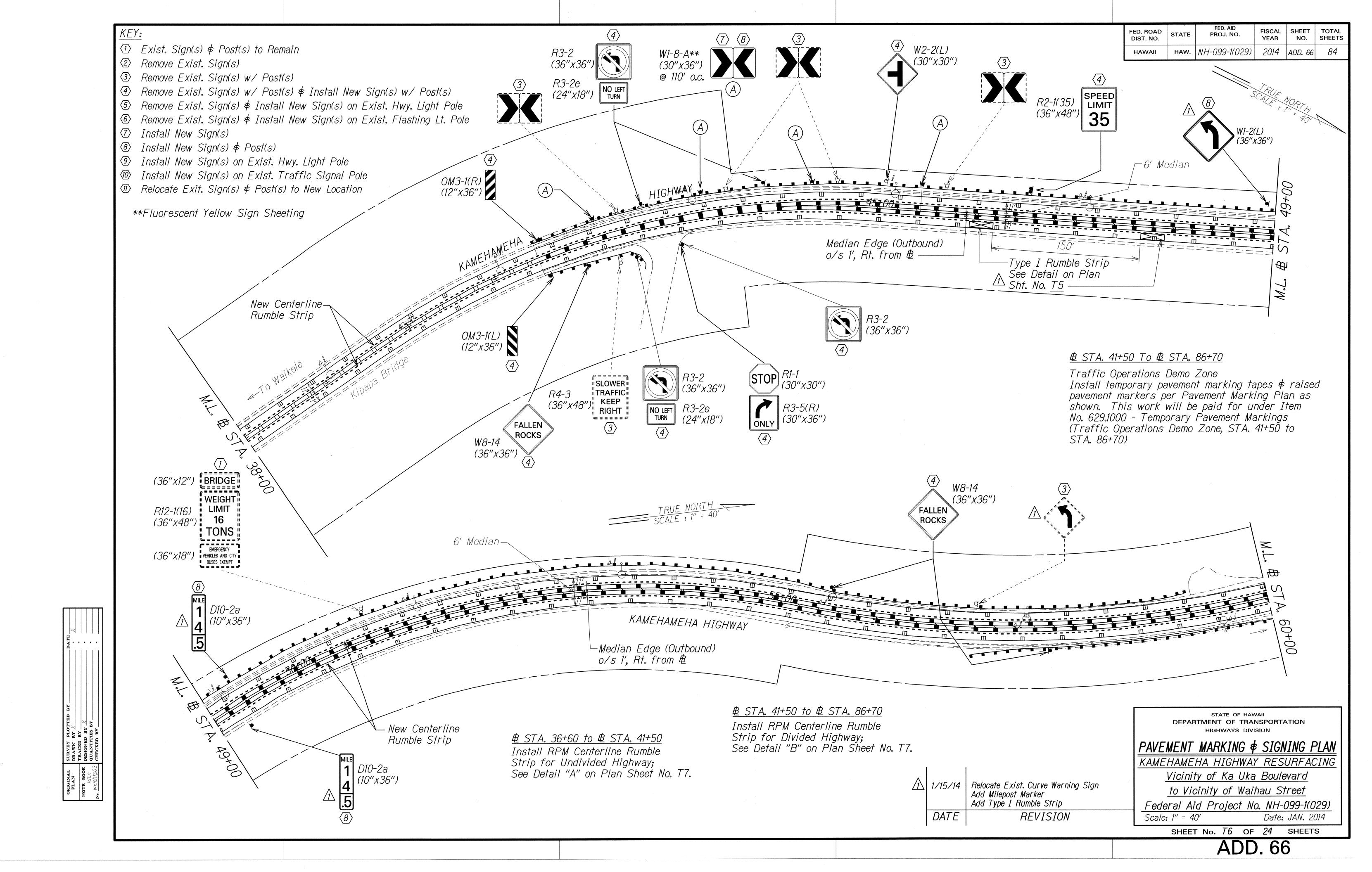


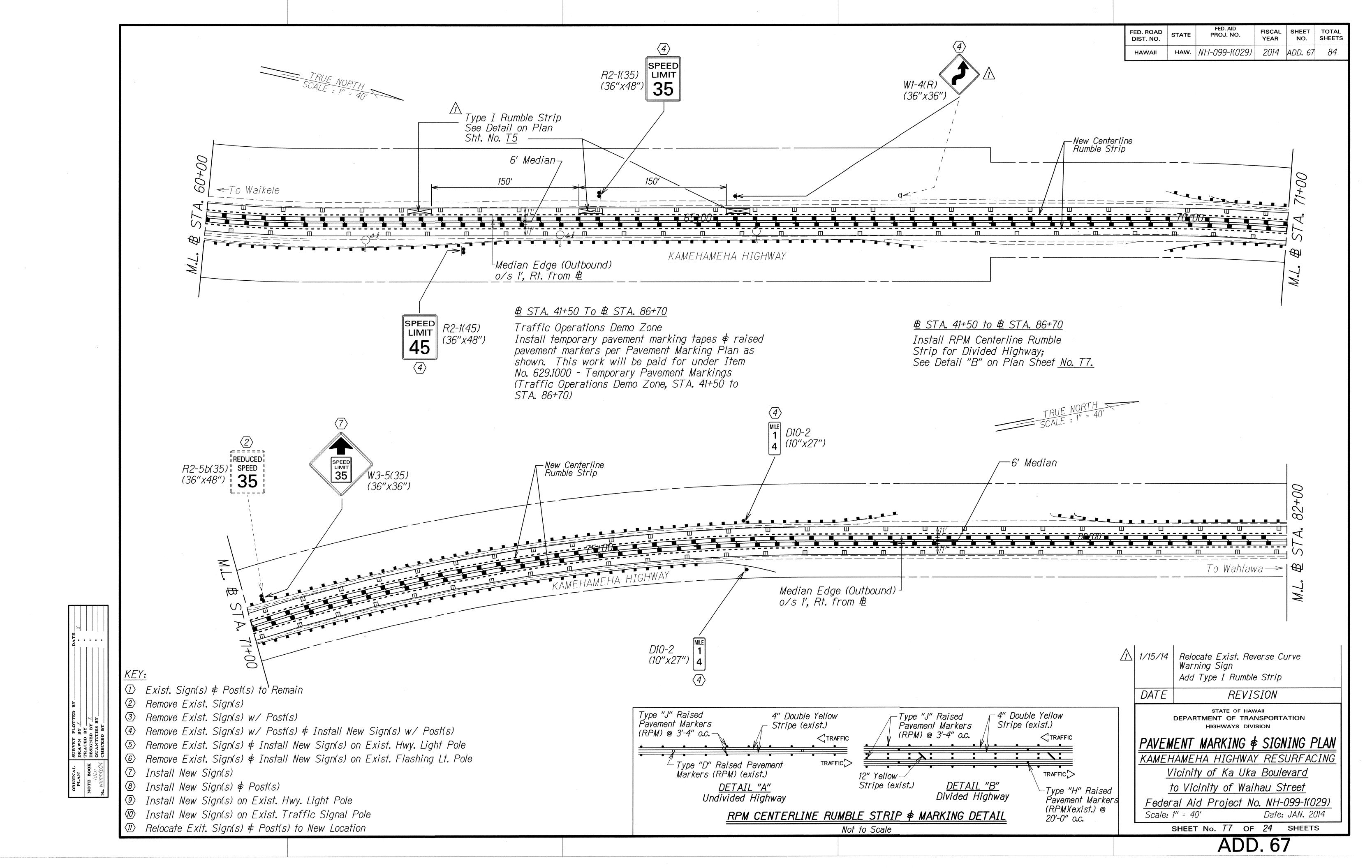


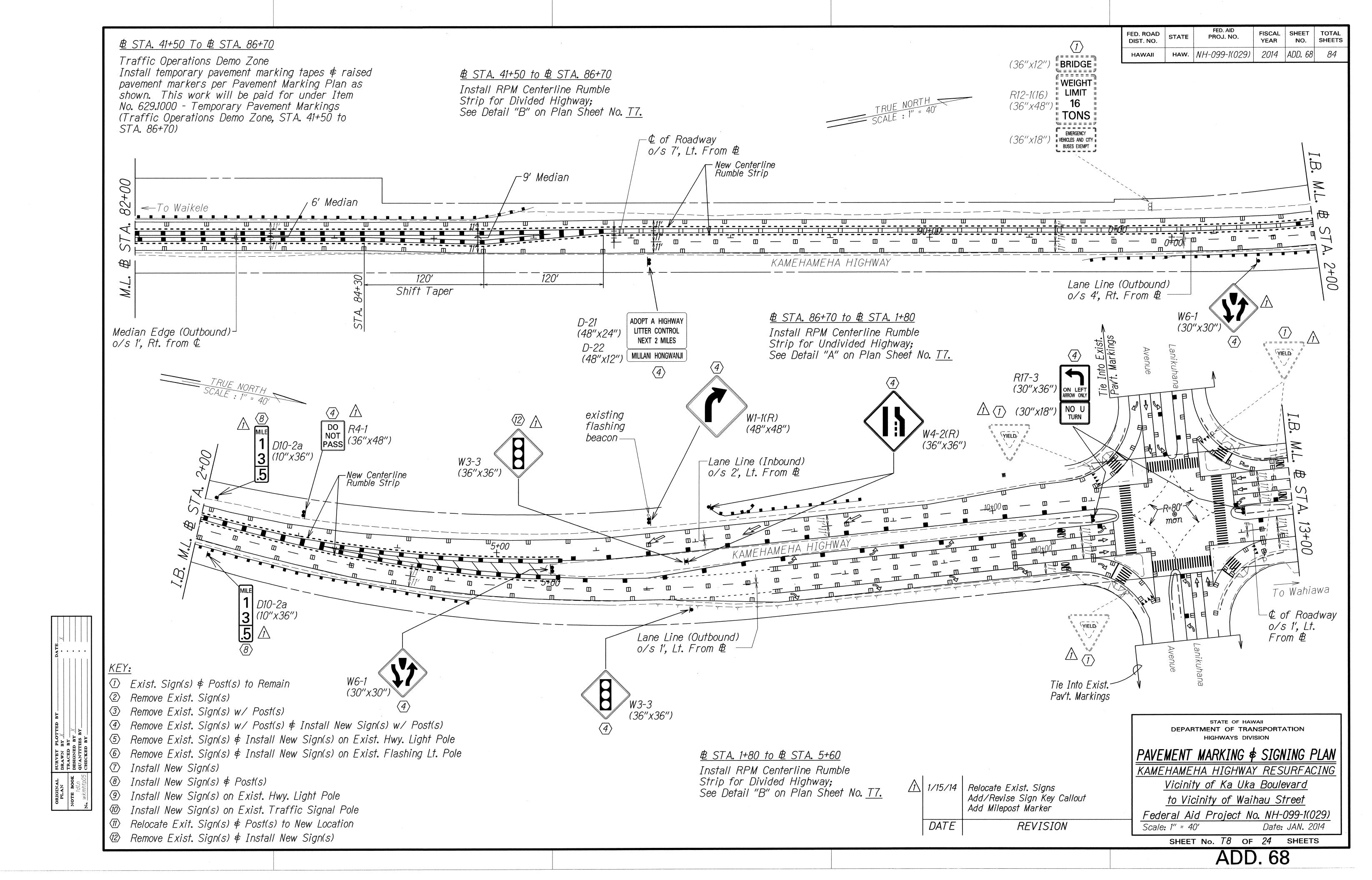


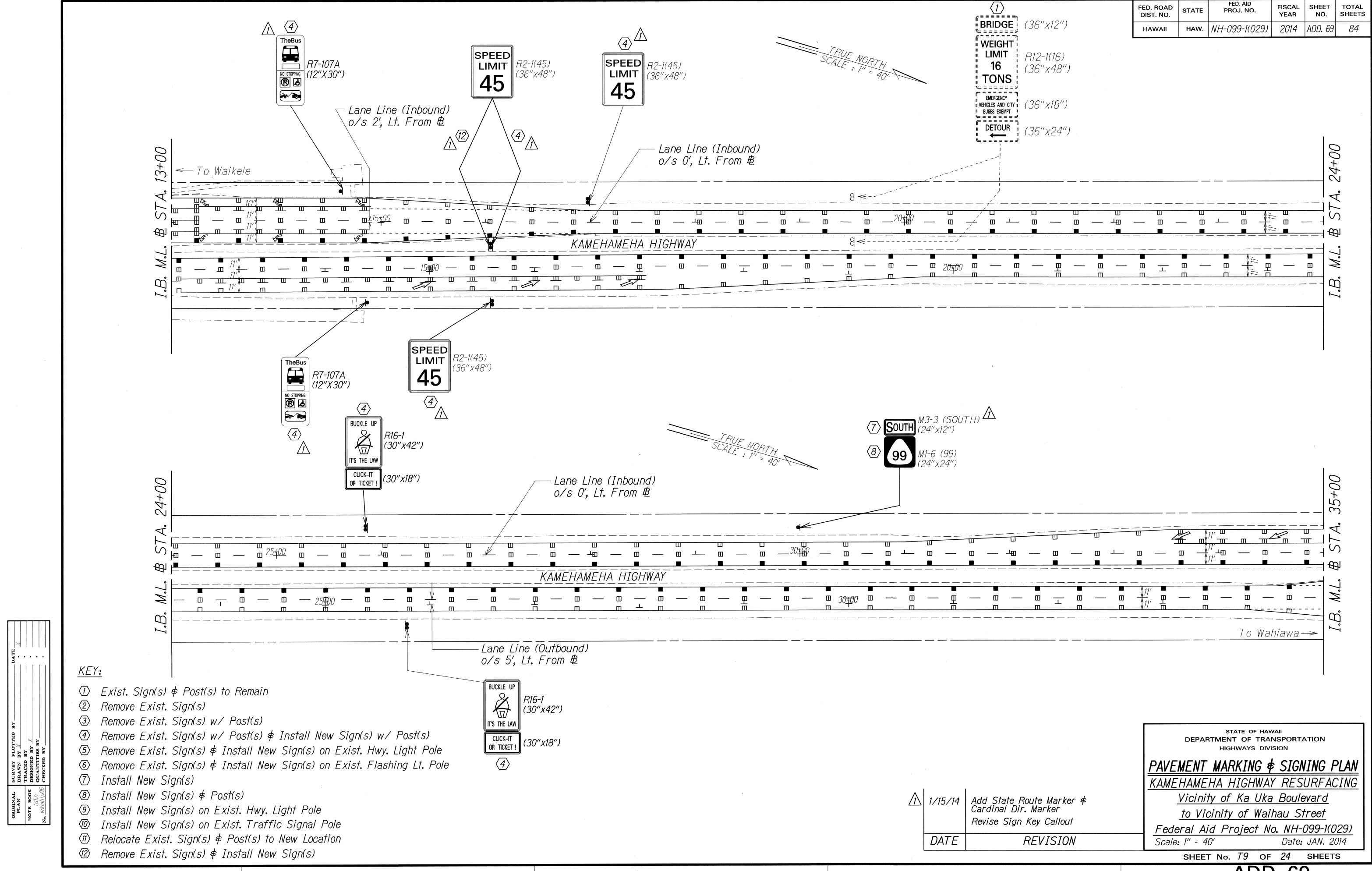


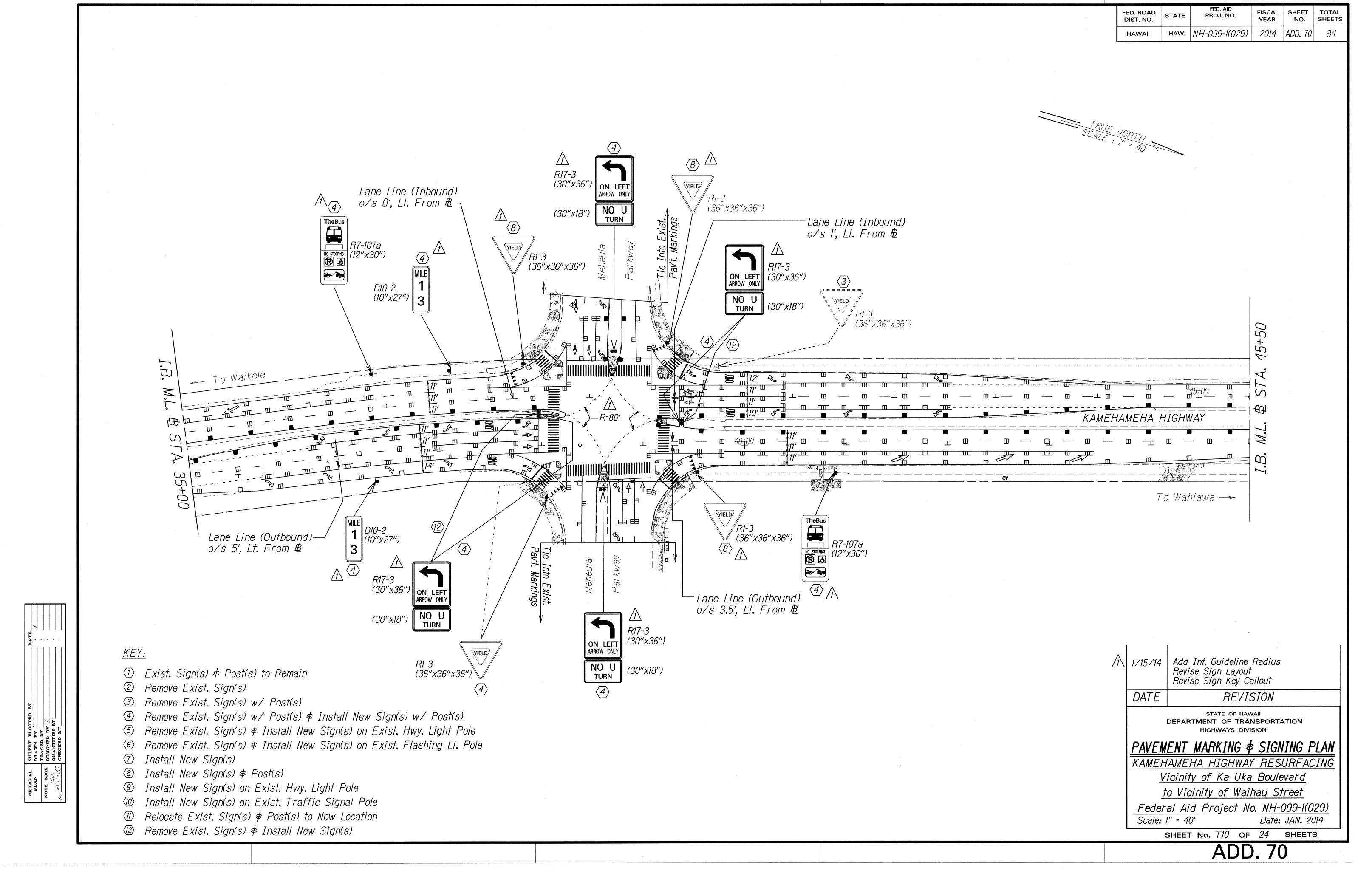




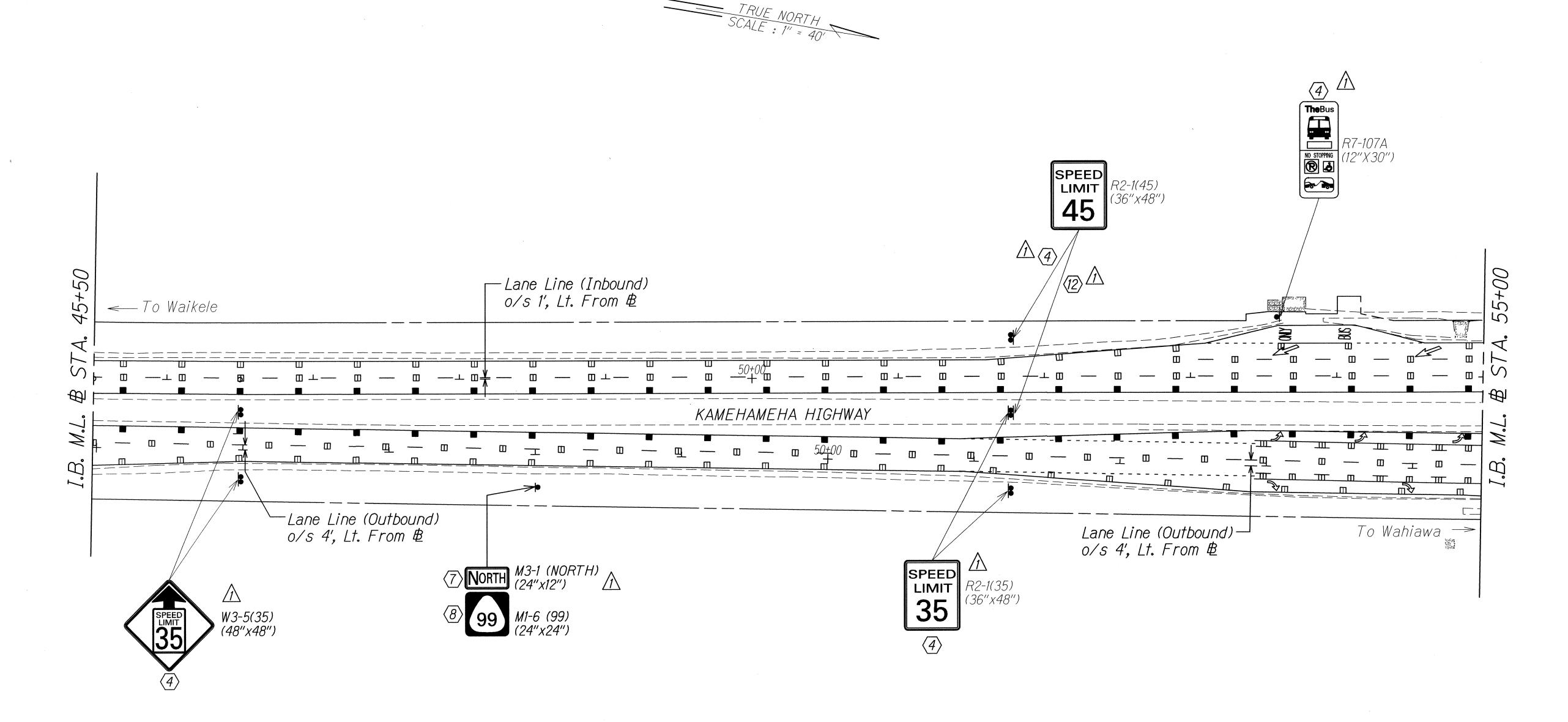


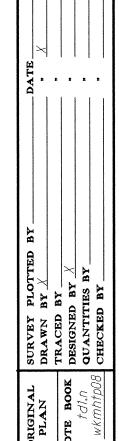






FED. ROAD DIST. NO. HAW. NH-099-1(029) 2014 ADD. 71 84





KEY:

② Remove Exist. Sign(s)

③ Remove Exist. Sign(s) w/ Post(s)

⑤ Remove Exist. Sign(s) \$ Install New Sign(s) on Exist. Hwy. Light Pole

⟨¬⟩ Install New Sign(s)

Install New Sign(s) on Exist. Hwy. Light Pole

1 Install New Sign(s) on Exist. Traffic Signal Pole

1 Relocate Exist. Sign(s) \neq Post(s) to New Location

1/15/14 | Add/Revise Signs

Add State Route Marker ¢ Cardinal Dir. Marker Add/Revise Sign Key Callout

DATE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

REVISION

PAVEMENT MARKING & SIGNING PLAN

KAMEHAMEHA HIGHWAY RESURFACING Vicinity of Ka Uka Boulevard

to Vicinity of Waihau Street

Federal Aid Project No. NH-099-1(029) Scale: 1" = 40' Date: JAN. 2014

SHEET No. 711 OF 24 SHEETS

