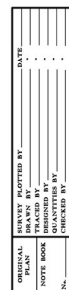
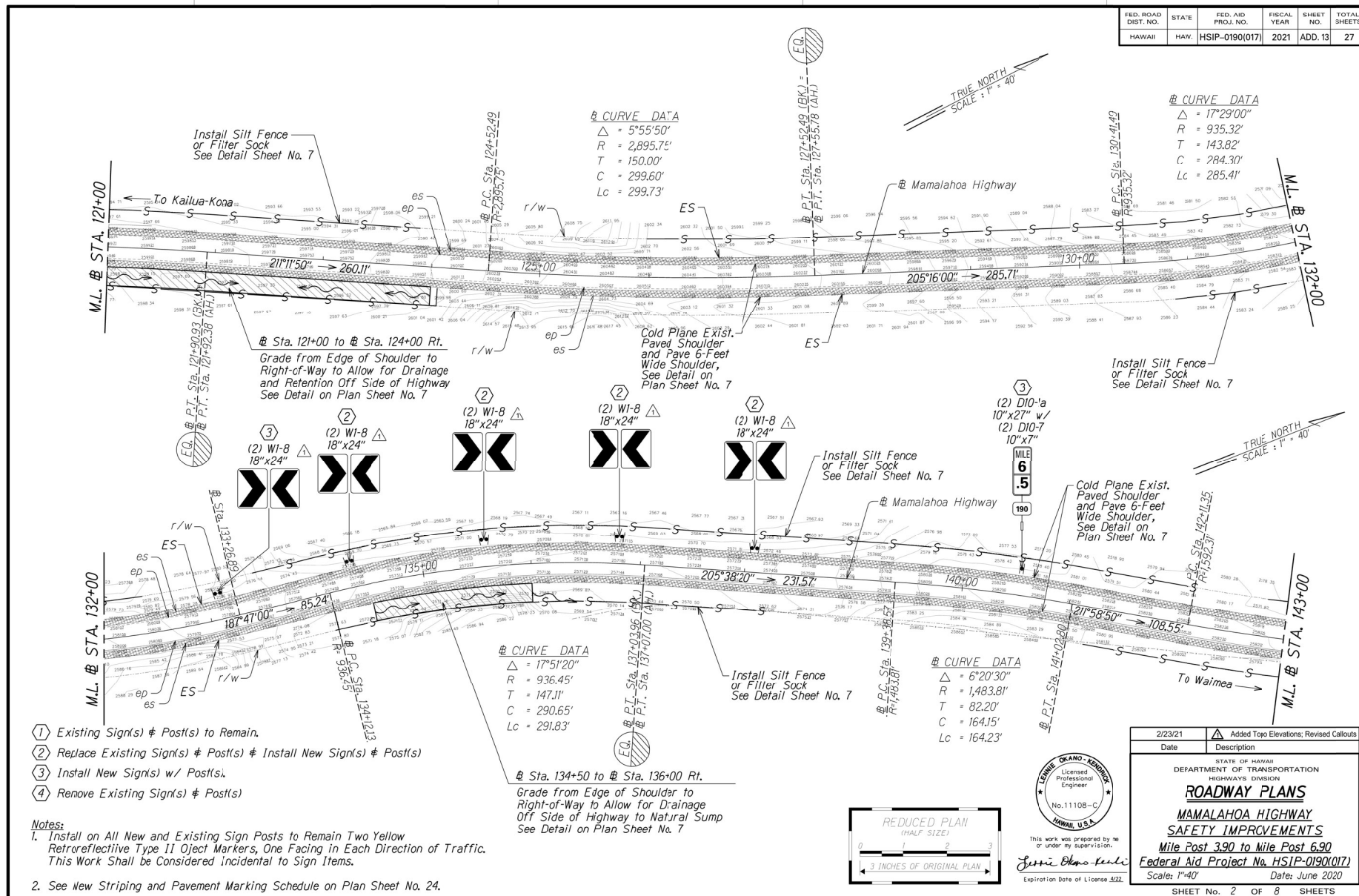


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(017)	2021	ADD. 12	27



- | | |
|--|---|
| 2/23/21 |  Added Typo Elevations |
| Date | Description |
| STATE OF HAWAII | |
| DEPARTMENT OF TRANSPORTATION | |
| HIGHWAYS DIVISION | |
| <u>ROADWAY PLANS</u> | |
| <u>MAMALAHOA HIGHWAY</u> | |
| <u>SAFETY IMPROVEMENTS</u> | |
| <u>Mile Post 3.90 to Mile Post 6.90</u> | |
| <u>Federal Aid Project No. HS1P-0190(017)</u> | |
| Scale: 1"=40' | Date: June 2020 |
| SHEET No. <u>1</u> OF <u>8</u> SHEETS | |

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(017)	2021	ADD. 13	27



- ① Existing Sign(s) & Post(s) to Remain.
- ② Replace Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
- ③ Install New Sign(s) w/ Post(s).
- ④ Remove Existing Sign(s) & Post(s)

Notes:

1. Install on All New and Existing Sign Posts to Remain Two Yellow Retroreflective Type II Object Markers, One Facing in Each Direction of Traffic. This Work Shall be Considered Incidental to Sign Items.
2. See New Striping and Pavement Marking Schedule on Plan Sheet No. 24.

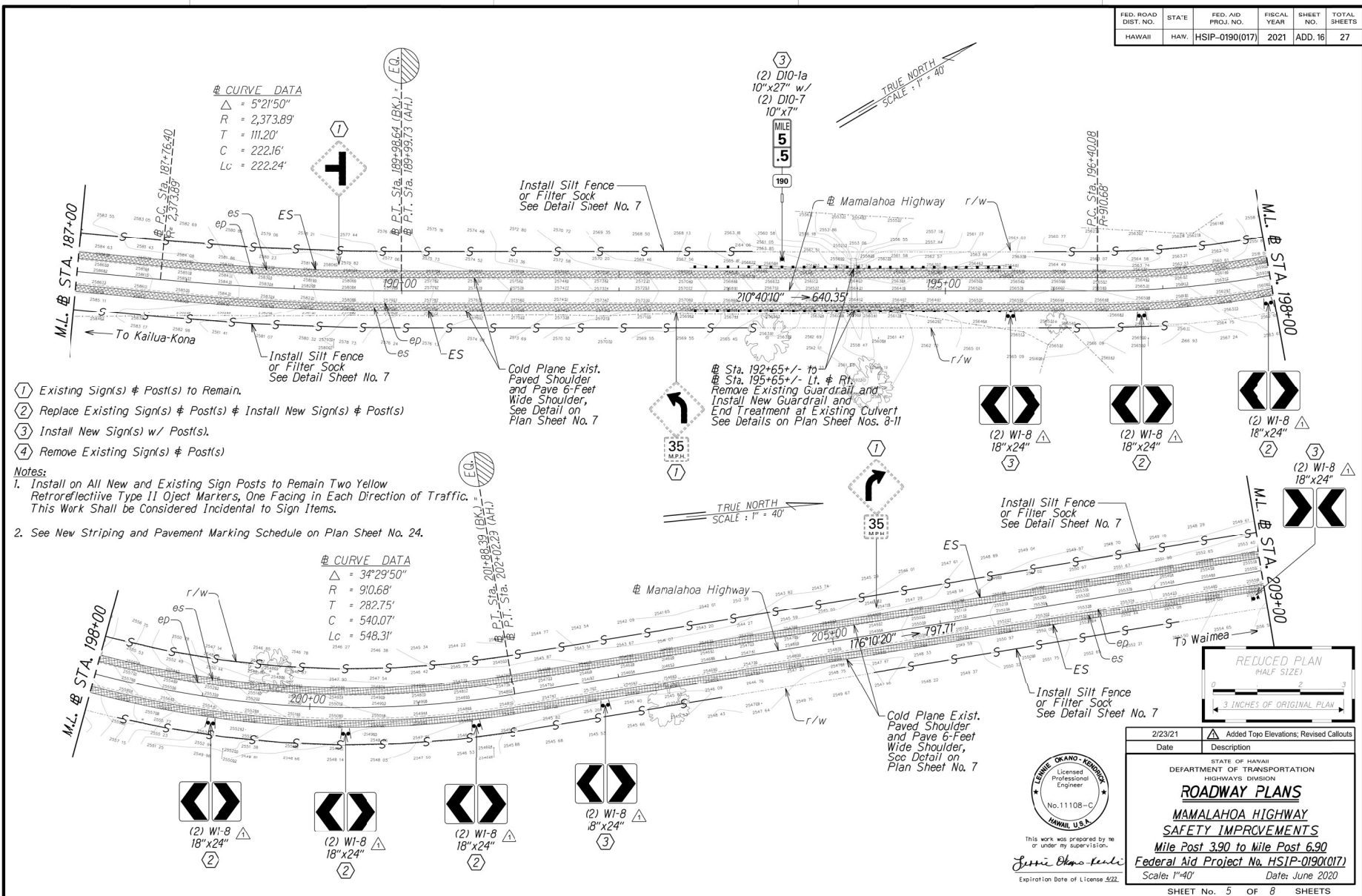
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
REVISIONS	



This work was prepared by me or under my supervision.
 Leslie Okano
 Expiration Date of License 2022

2/23/21	Added Topo Elevations; Revised Callouts
Date	Description
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLANS	
MAMALAHOA HIGHWAY	
SAFETY IMPROVEMENTS	
Mile Post 3.90 to Mile Post 6.90	
Federal Aid Project No. HSIP-0190(017)	
Scale: 1"=40'	Date: June 2020
SHEET No. 2 OF 8 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(017)	2021	ADD. 16	27



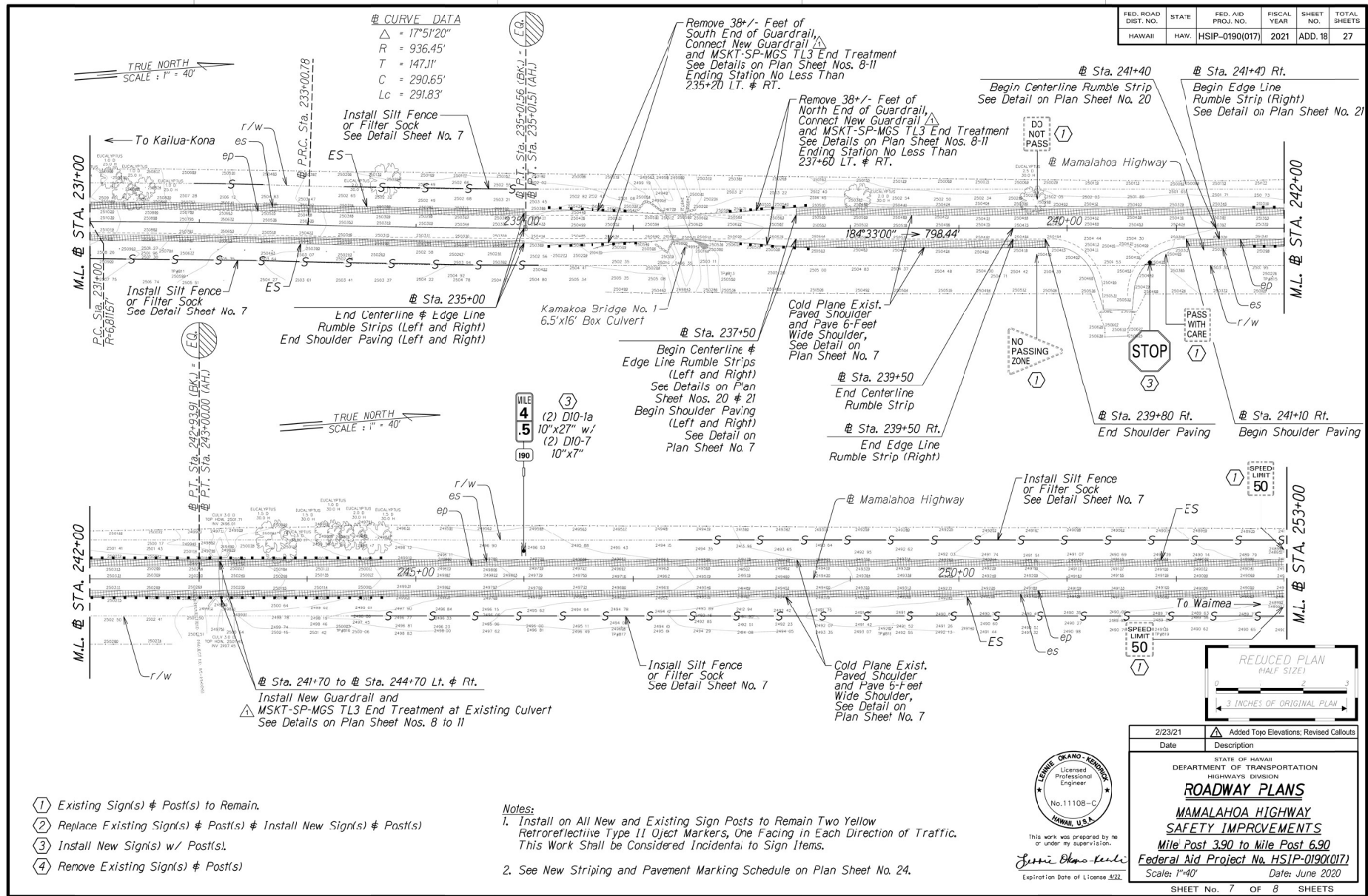
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
APPROVED BY	

REDUCED PLAN (HALF SIZE)
 3 INCHES OF ORIGINAL PLAN

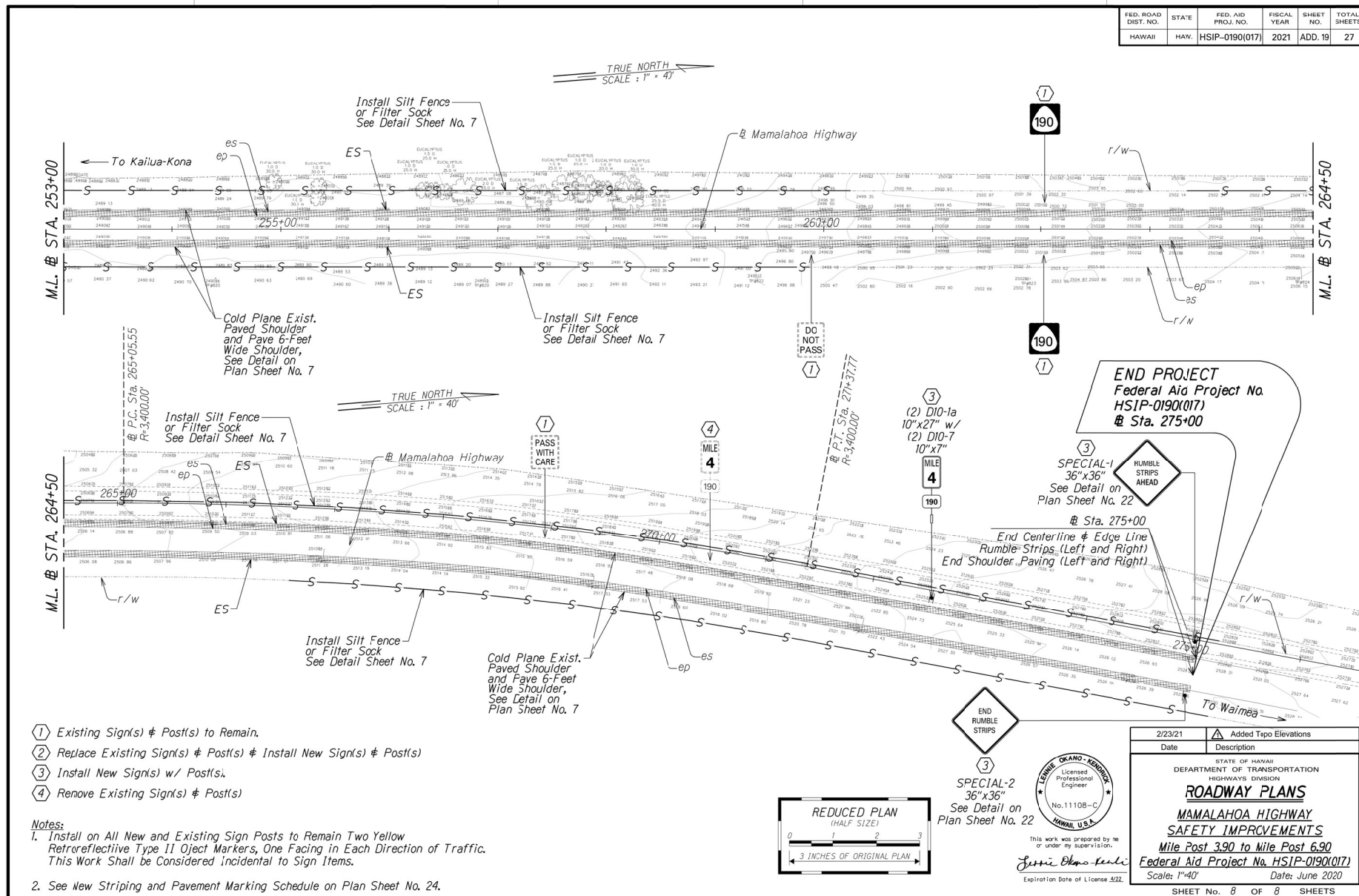
2/23/21
 Date: 2/23/21
 Description: Added Topo Elevations; Revised Callouts

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLANS
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
 Mile Post 3.90 to Mile Post 6.90
 Federal Aid Project No. HSIP-0190(017)
 Scale: 1"=40' Date: June 2020

SHEET No. 5 OF 8 SHEETS
ADD. 16



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(017)	2021	ADD. 19	27



- ① Existing Sign(s) & Post(s) to Remain.
- ② Replace Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s).
- ③ Install New Sign(s) w/ Post(s).
- ④ Remove Existing Sign(s) & Post(s).

Notes:

1. Install on All New and Existing Sign Posts to Remain Two Yellow Retroreflective Type II Object Markers, One Facing in Each Direction of Traffic. This Work Shall be Considered Incidental to Sign Items.
2. See New Striping and Pavement Marking Schedule on Plan Sheet No. 24.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTED BY	
REVISIONS	
NO.	

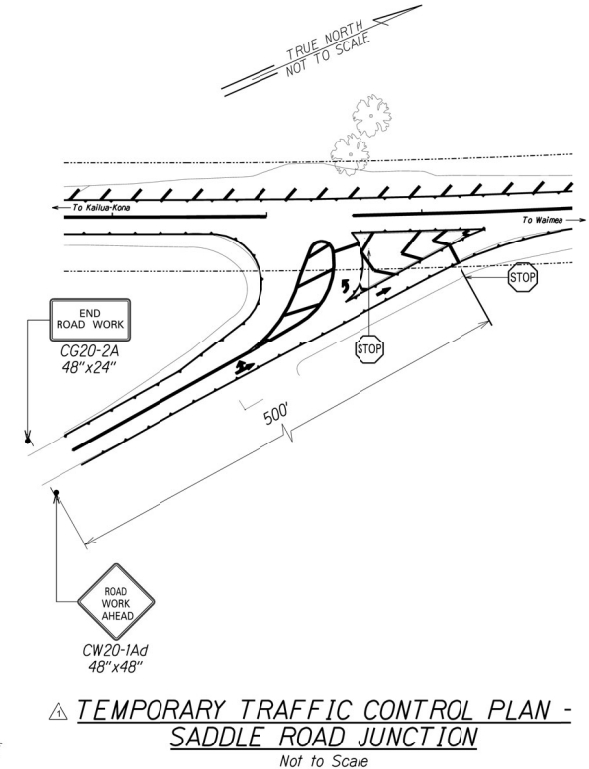
STANDARD TRAFFIC NOTES

1. The permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
2. All traffic control devices including cones, barricades, etc. shall comply with the latest MASH requirements.
3. Concrete barriers, cones, barricades or delineators shall be extended to a point where they are visible to approaching traffic.
4. Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.
5. Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or fully covered. All signs shall be restored upon completion of the work.
6. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
7. When required by the Engineer or MUTCD, the Contractor shall install a flashing arrow signal.
8. All temporary work zone traffic lanes shall be a minimum of 10 feet wide.
9. All construction warning signs, not on portable stands, shall be promptly removed or fully covered whenever the message is not applicable or not in use. Sign covers shall not allow signs to be seen when headlights illuminate them.
10. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
11. At the end of each day's work or as soon as the work is completed, the Contractor shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Signs on portable stands shall not remain in the shoulder if not in use. They shall be removed from the roadway. Covering the signs on portable stands and leaving them in place shall not be done. Removal shall be in the reverse order of installation.
12. Permanent pavement markings and traffic signs shall be replaced and accepted before substantial completion is granted.
13. Install steady burn amber lamps on portable concrete barriers at 20 feet on center. Installing, maintaining, as well as changing batteries of the portable mounted steady burn amber lamps shall be considered incidental to the various contract items.
14. All construction signs and temporary striping shall be removed before substantial completion is granted, unless noted as a permanent item.

TRAFFIC CONTROL PLAN NOTES

1. The construction traffic control plans are intended to provide the Contractor with a general traffic control plan for the phasing of the roadway work. It is not intended to be used to sequence every aspect of the work. The Contractor shall be responsible to sequence the work as required to provide access to abutting properties and intersecting streets and modify the traffic control plans accordingly, and shall submit detailed traffic control plans as indicated below. The Engineer reserves the right to direct the Contractor to revise its traffic control plans should it, in the sole opinion of the Engineer, provide unsatisfactory performance, e.g. complaints from the public, safety problems. This shall be at no additional cost or increase in contract time.
2. Prior to start of any construction activities on the site, the Contractor shall prepare, submit for review, and obtain approval of detailed traffic control plans that comply with latest MUTCD requirements and show at a minimum:
 - A. The phases of construction within the project, and which areas will be constructed under each phase.
 - B. Lanes (original, temporary detours, or final) that will be open to traffic flow during construction hours, along with all traffic control devices, police, etc. to be used to control traffic.
3. The traffic control plans shall conform to the following limitations:
 - A. The Contractor shall sequence the work to minimize disruption of access to the abutting properties. The Contractor shall notify the abutting property owners and users in advance of scheduled work requiring temporary inconveniences and disruption of access and shall provide temporary facilities and access at no additional cost to the state.
 - B. Contractor shall use police officers for flagging operations when available.
 - C. Contractor shall apply for all road closure permits and comply with all public notification requirements per County and State regulations and/or laws.
 - D. Contractor shall always during construction maintain ADA compliant pedestrian access on at least one side of the highway. Pedestrian access must be protected from construction work by FHWA accepted MASH compliant Longitudinal Channelizing Devices supplemented with retroreflective material or delineation for improved nighttime visibility. Guidance literature can be found at <https://ps.fhwa.dot.gov/publications/fhwahop17028/fhwahop17028.pdf> Temporary crosswalks shall be provided where pedestrian access switches from one side of the street to the other, and/or at intersections.
4. Phasing, traffic control devices, police officers, etc. necessary to comply with the above shall be considered incidental to various items in the contract, and shall not be paid for separately.
5. Approval by the Engineer of the Contractor's traffic control plans shall not relieve the Contractor of any liability or of his responsibilities to complete all work in a safe manner and in accordance with all applicable regulations, laws and guidelines.
6. The Contractor shall be responsible for the extent of the traffic control plan implemented at all times.
7. The Contractor shall be responsible for temporary power costs for all temporary traffic signals and street lighting.
8. The Contractor shall be responsible for installing, maintaining, and removing all necessary traffic signs and pavement markings required to accommodate traffic control. Removal shall be completed before substantial completion will be granted.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(017)	2021	ADD. 25	27



2/23/21	Added Temporary Traffic Control Plan
Date	Description
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TRAFFIC NOTES MAMALAHOA HIGHWAY SAFETY IMPROVEMENTS Mile Post 3.90 to Mile Post 6.90 Federal Aid Project No. HSIP-0190(017) Scale: N/A Date: June 2020	
SHEET No. 1 OF 1 SHEETS	



This work was prepared by me
or under my supervision.
Leslie Okano
Expiration Date of License 4/22

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
TRACED BY _____	
DESIGNED BY _____	
QUANTITIES BY _____	
CHECKED BY _____	
No. _____	