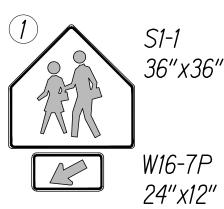
FISCAL SHEET YEAR NO. DIST. NO. STATE PROJ. NO. 50B-01-14R 2021



Black Legend on Fluorescent Yellow Green Background

<u>Note:</u> Install with RRFB for This Project, See Sht 19 for Details.



Revised R1-5aL *30"x36"*

Black Legend on White Background. See Attached Sheet for Detail

Offset 5' Horizontally with Crossing sign.

Do Not Install If Insufficient Space to Offset Signs.



AHEAD

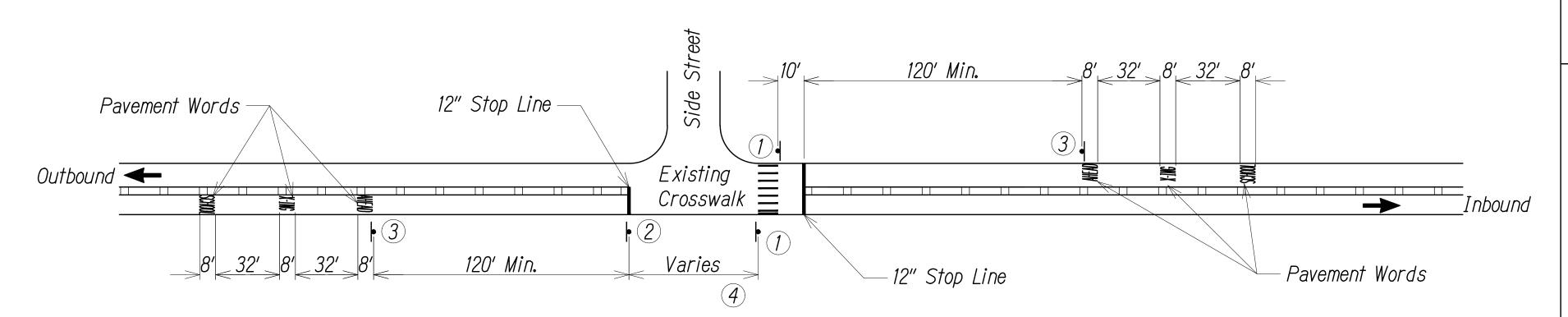
Black Legend on Fluorescent Yellow Green Background

4 <u>Note:</u>

If Distance is <50', Offset Stop Here for Pedestrians Sign 5' Horizontally with Crossing Sign.

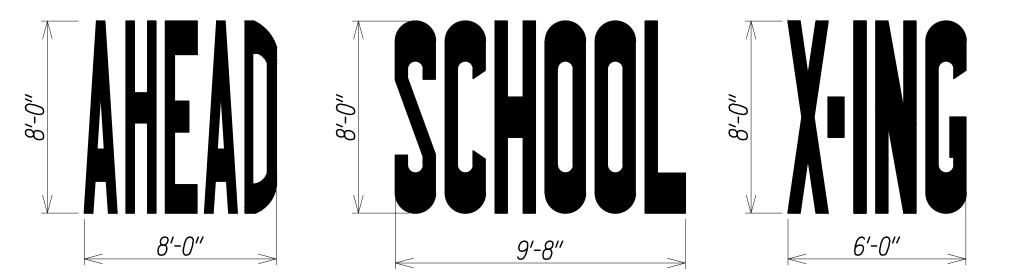
<u>NOTE:</u>

If the Roadway Is Separated by a Raised Median Supplementary signs 1, 2, 3 Shall Also Be Installed on the Left-hand Side of the Roadway.



UNSIGNALIZED INTERSECTION MARKINGS (SINGLE LANE)

Not To Scale



PAVEMENT WORDS

Not To Scale

LICENSED PROFESSIONAL ENGINEER THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

ME OR UNDER

APRIL 30, 2022
LIC. EXP. DATE

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION STRIPING AND SIGNAGE DETAILS - 1

Kaumualii Highway Intersection Improvements at Waimea Canyon Drive Project No. 50B-01-14R

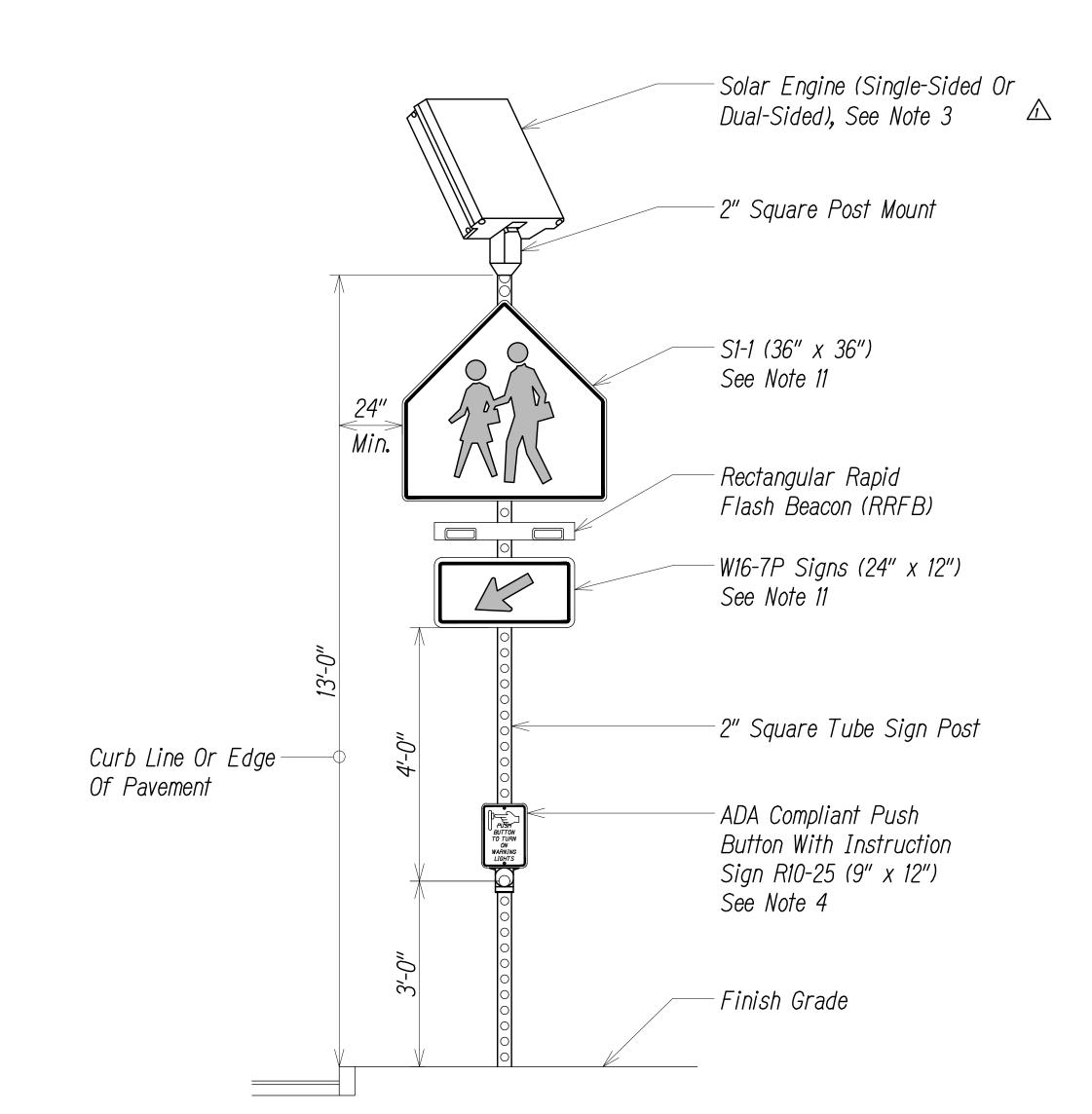
Scale: **As Shown**

Date: Feb 2021

SHEET No. SS-5 OF SHEETS

DIST. NO. STATE PROJ. NO. FISCAL SHEET NO. SHEETS

KAUAI HAW. 50B-01-14R 2021 ADD.19 44



<u>RECTANGULAR RAPID FLASHING BEACON DETAIL</u>

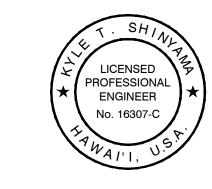
<u>Not To Scale</u>

NOTES:

- 1. The Locations Of The New Traffic Signal Standards With Rectangular Rapid Flashing Beacons (RRFB) And Pedestrian Push Buttons Shall Be Staked Out In The Filed By The Contractor And Approval Of The Locations Shall Be Obtained From The Engineer Prior To Construction And Installation.
- 2. RRFB System Shall Conform To The Requirements Of The 2009 Edition Of The "Manual On Uniform Traffic Control Devicies," Federal Highway Administration. The System Shall Conform To All Provisions Of The MUTCD, Interim Approval IA-21.
- 3. RRFB System Shall Be Solar-Powered With Spread Spectrum Wireless Communication.

 Solar Engine Shall Be Sized With Minimal Dimensions To Provide Sufficient Power

 Output To Operate the RRFB System.
- 4. Each Pushbutton Shall Be Installed With An Instruction Sign R10-25 (9" X 12") That Reads, "Push Button To Turn On Warning Lights". See Sht. TS-4 For More Details.
- 5. RRFB Controller Equipment Shall Be Completely Self-Contained With No Connection To External Power Necessary.
- 6. The W16-7P Plaque And The Rapid-Flash LED Enclosure Shall Not Extend More Than 4" Horizontally Over Any Pedestrian Facility.
- 7. Contractor Shall Install Signs And Posts And Rectangular Rapid Flash Beacon And Push Button, Per The Manufacturer's Specifications.
- 8. Contractor Shall Submit Product Data For Review And Approval By The Engineer Prior To Purchasing And Installation.
- 9. The RRFB Installation Shall Comply With The Technical Conditions As Provided In The FHWA Technical Memorandum Regarding The Interim Approval For Optional Use Of Rectangular Rapid Flash Beacon.
- 10. Each Crossing Where There Is No Median Shall Have A Minimum Of Two Poles Each With Push Button Detection. Each Pole Shall Have Signs And Beacons Facing Both Sides (Double-Sided). At Locations With A Median, Provide Two Poles With Single-Sided Sign And Beacon And Provide A Third Pole In The Median With Double -Sided Signs And Beacons.
- . S1-1 Warning Signs And Supplemental Plaques W16-7P Shall Have A Fluorescent Yellow-Green Background With A Black Legend And Border. The Mixing Of Standard Yellow And Fluorescent Yellow-Green Backgrounds Is Not Allowed.
- 12. Contractor Shall Provide An On-Board User Interface (OBUI) To Locally Troubleshoot Or Reprogram the RRFB System.



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5/18/21 Add Note 12. Rev. Note 3. Omit Solar Engine Dimension Det.

DATE REVISION

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND SIGNAGE

DETAILS - 2

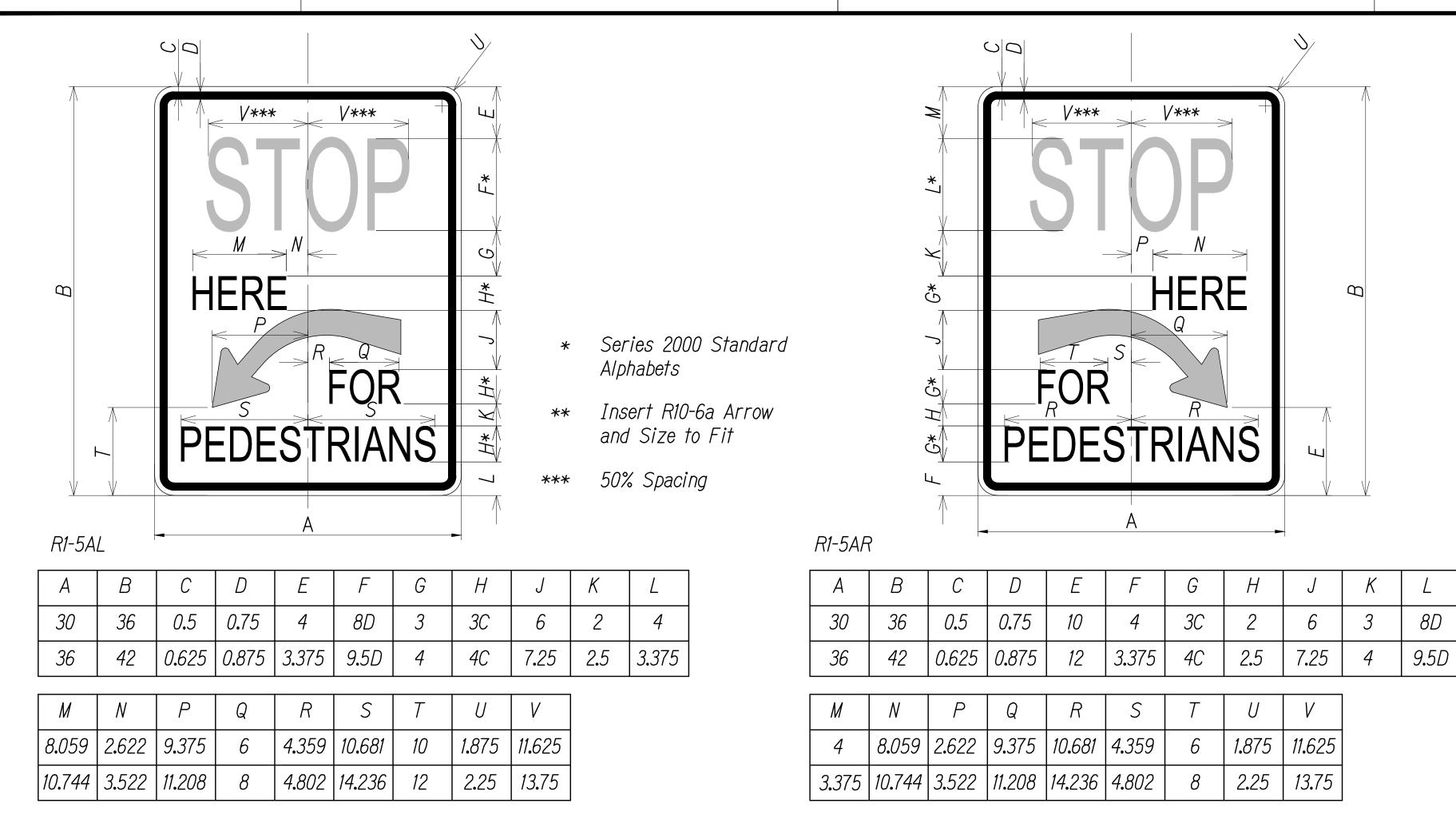
Kaumualii Highway Intersection
Improvements at Waimea Canyon Drive
Project No. 50B-01-14R

Scale: **As Shown**

Date: Feb 2021

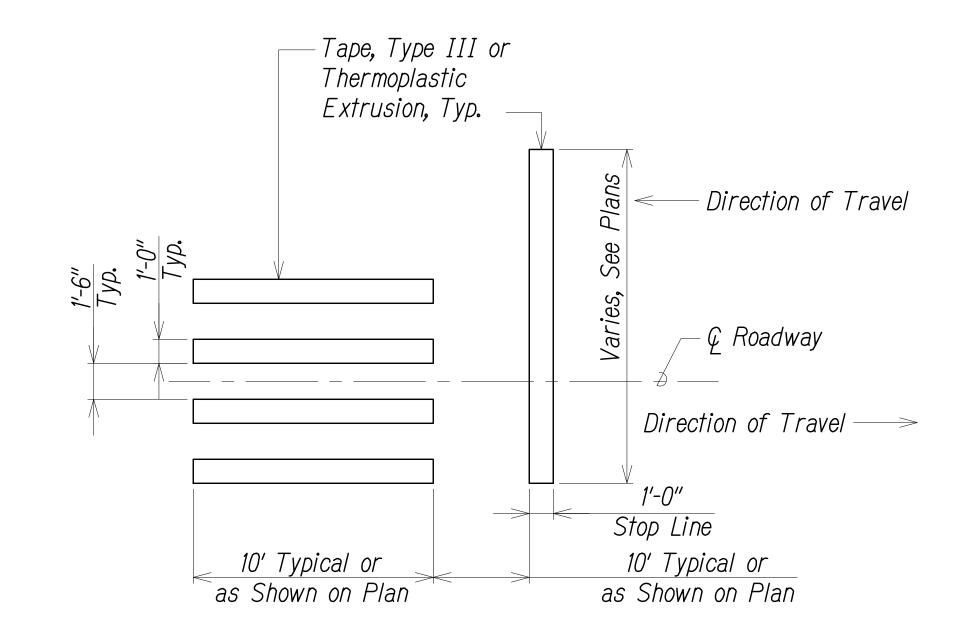
SHEET No. SS-6 OF 7 SHEETS

ADD.19



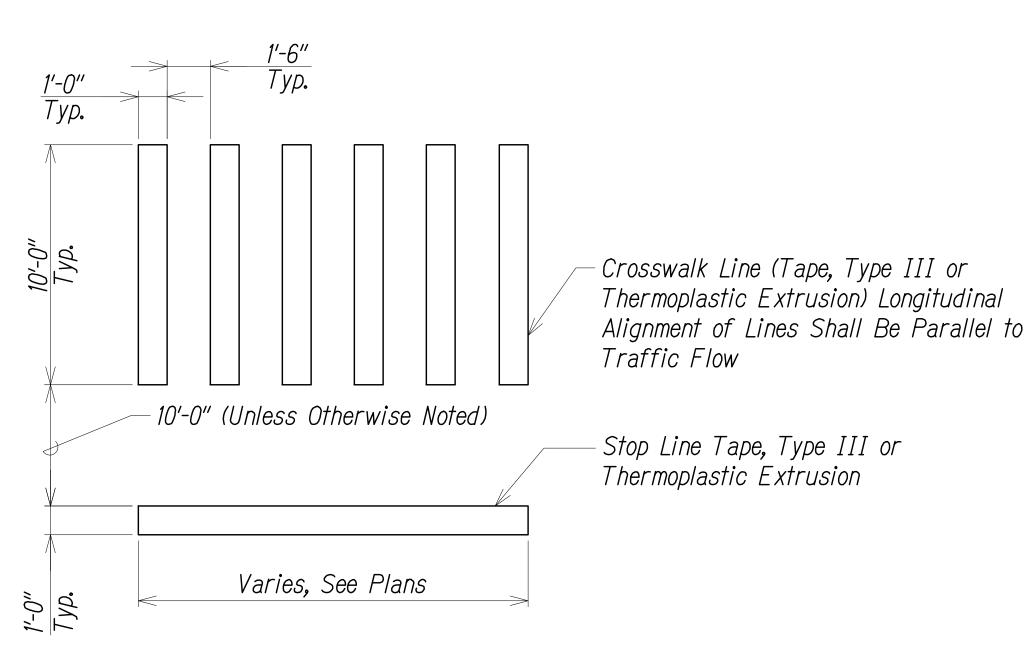
TYPICAL R1-5A SIGN

Not To Scale



Longitudinal Lines Shall Be Parallel to Traffic Flow.

CROSSWALK STRIPING DETAIL Not To Scale

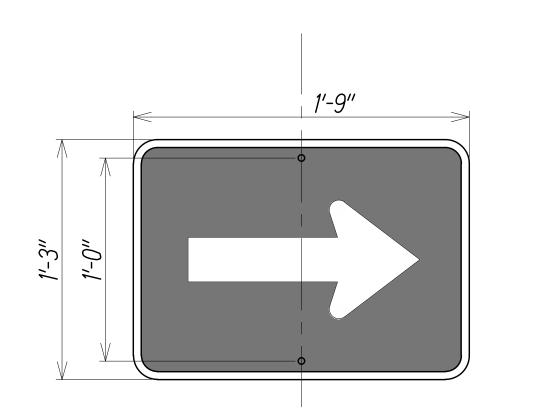


TYPICAL CROSSWALK LAYOUT (STRAIGHT ALIGNMENT) Not To Scale

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APRIL 30, 2022

LIC. EXP. DATE



COLOR: Border White Background Blue White Arrow

FISCAL SHEET YEAR NO.

2021 20

TYPICAL EVACUATION ARROW SIGN

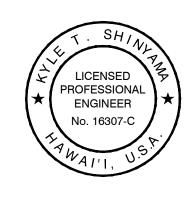
DIST. NO.

STATE

PROJ. NO.

50B-01-14R

Not To Scale



STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION STRIPING AND SIGNAGE DETAILS - 3

Kaumualii Highway Intersection <u>Improvements at Waimea Canyon Drive</u> Project No. 50B-01-14R

Scale: As Shown

Date: Feb 2021

SHEET No. SS-7 OF SHEETS

