

GENERAL NOTES:

1.

The scope of work for this project includes reconstructing weakened pavement areas; cold planing; resurfacing; installing new raised pedestrian crossings and speed humps; constructing concrete curb, gutter and sidewalk; removing existing and installing new pavement markers and traffic signs; removing existing and installing new guardrails and end treatments; relocating utilities; and dressing of shoulders.
2.

The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
3.

The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104(1) - Utilities and Services; and Section 645 - Work Zone Traffic Control.
4.

Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other various contract items and shall not be paid for separately.
5.

The Contractor shall notify the Engineer in writing, through the e-construction platform, two (2) weeks prior to starting of his operations.
6.

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 and pedestrians.
7.

Work shall be performed at night between 9:00 P.M. and 5:00 A.M. of the following day, Sunday through Thursday, excluding holidays. Work outside of these hours are permissible when approved by the Engineer in writing. The allowable lane closure hours during night work, except holidays shall be as follows:

Sunday through Thursday, 9:00 P.M. to 12:00 midnight

Monday through Friday, 12:00 midnight to 5:00 A.M.
8.

All workers within the State right-of-way who are exposed to either vehicles using the roadway or to construction equipment shall wear high-visibility safety apparel that meets the Performance Class 2 or 3 requirements of ANSI/ISEA 107-2004. "Workers" is defined as people on foot whose duties place them with the State right-of-way, such as, but not limited to construction and maintenance forces, equipment operators, survey crews, utility crews, responders to incidents (e.g. EMT and Firemen), and law enforcement personnel directing traffic, investigating accidents, handling lane closures and obstructed roadways.
9.

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. Prior to start of work, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highways Division at telephone no. (808) 241-3000 or dot.hwyk.permits@hawaii.gov.
10.

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 obstacles

during the course of 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.

11.

Prior to construction, the Contractor shall contact the various utility agencies for location of existing utilities within the project limits. The Contractor shall locate and protect all existing utilities whether or not shown on the plans. Any costs incurred by damages to existing utilities will be borne by the Contractor. Contractor shall request from One-Call Center, Ph. 1-866-432-7287. The Contractor shall also call the County of Kauai, Department of Water, Ph: (808) 245-5400 and the Wastewater Division, Ph: (808) 241-6642 for toning waterlines and sewerlines respectively. The Contractor shall document his effort in the e-construction platform.

12.

All works of toning, probing, hand digging and all other means of utility verifications shall not be paid for separately, but shall be considered incidental to the various contract items.

13.

The Contractor shall provide for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to the various contract items.

14.

Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, and tools to maintain flow. This work shall be considered incidental to the various contract items.

15.

The Contractor, at his own expense, shall keep the project area and surrounding area free from dust nuisance.

16.

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.

17.

Contractor shall exercise extreme caution to preserve all existing right-of-way centerline, as-built, construction, and NGS (horizontal and vertical in the NGS database) monuments located within the State of Hawaii Right-of-way. If monuments are disturbed or destroyed, the Engineer shall be notified. Reconciliation to the Right-of-Way Baseline and/or boundary study and determination may be required prior to re-installation of the disturbed or destroyed monuments. The Engineer shall be contacted for guidelines and procedures prior to construction.

A State of Hawaii Licensed Surveyor shall perform the location and staking of the reset monument. The DOT Standard Plans and Specifications, with the exception of NGS monuments which shall have a NGS approved "brass disk" marker, shall be referenced for the monument type and materials.

Any NGS vertical monuments that are deemed necessary for relocation due to construction shall follow the NGS benchmark reset procedures written by Curtis Smith dated September 2010 or newer. All work must be done by an electronic digital level that is acceptable by NGS for second-order class one or higher work. The surveyor must use tow one-piece invar barcode rods with current certifications with struts with 15 lbs turning plate or turtles; and/or turning pin with driving cap and temperature readings. Contact NGS prior to any work to ensure all equipment meets reset specifications. A State of Hawaii Licensed Surveyor shall perform the relocation. All work must be submitted both

in electronic and hard copy formats to NGS and the Engineer. All monument work shall be considered incidental to this project, unless noted otherwise.

18.

No sections where guardrail has been removed shall be left unattended at the end of each work day. Open sections shall be shielded by Portable Concrete Barriers, unless otherwise approved by the Engineer. For Portable Concrete Barrier details, refer to Standard Plans TE-42 and TE-43. Furnishing, installing, and maintaining of these devices shall be considered incidental to the various contract items and shall not be paid for separately.

19.

Should historic remains such as artifacts, burials, concentration of shell or charcoal be encountered during construction activities, work shall cease in the immediate vicinity of the find. The Contractor shall immediately notify the Planning Department and State Historic Preservation Division at (808) 241-3690, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary.

20.

The Contractor shall take measures to reduce the spread of invasive species (e.g. Rapid Ohia Death) such as by minimizing the movement of plant or soil material between worksites, such as fill. Additionally, all equipment, materials and personnel should be cleaned of excess soil and debris to minimize the risk of spreading invasive species.

21.

All saw cutting work and removal shall be considered incidental to the various contract items and will not be paid for separately.

22.

The Contractor, at his own expense, shall hydro-mulch and maintain per Section 641 - Hydro-Mulch Seeding of the HDOT Standard Specification all areas disturbed by his operations.

23.

Earth swales shall be graded to the drains. Graded swales and shoulder shall be grassed. This work shall be considered incidental to the various contract items.

24.

Trimming and 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. Asphalt concrete removed from cold planing, reconstruction, and roadway excavation shall not be used for dressing of shoulder, sidewalk or bus turnout. This work shall be considered incidental to the various contract items.

25.

Prior to his paving operations, the Contractor shall be responsible for locating, preserving and marking all utility & highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to the Engineer a list of all items, including water, drainage, sewer, electrical, telephone and cable utilities to be adjusted to the new finished grade.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES, LEGEND &
ABBREVIATIONS

KUHIU HIGHWAY RESURFACING
AND SAFETY IMPROVEMENTS
Route 560 M.P. 0.0 to M.P. 4.5
Fed. Aid Proj. No. STP-0560(017)

Scale: None


Date: July, 2023

SHEET No. N-2 OF 6 SHEETS

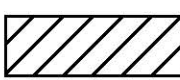
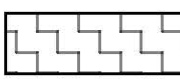
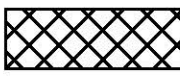
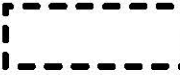

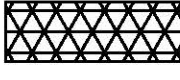


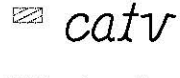
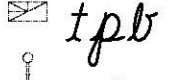
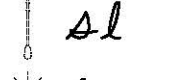

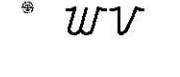
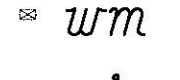
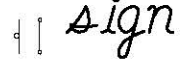



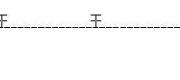
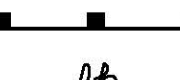
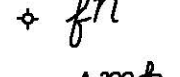
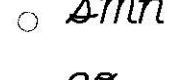
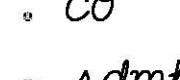
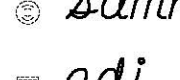
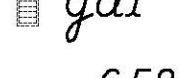
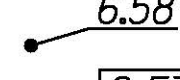

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

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GENERAL NOTES (Cont.):

26. The exact locations and limits or areas to be excavated, reconstructed and cold planed shall be determined in the field by the Engineer.
27. All asphalt concrete materials from cold planing, reconstruction and roadway excavation operations shall become property of the Contractor. The Contractor shall remove and dispose these materials and shall be considered incidental to various contract items. The Contractor shall provide the Solid Waste Disclosure notice to the HDOT Engineer.
28. At the end of each day's paving operations, temporary pavement markers and striping shall be in place prior to leaving the site.
29. 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.
30. Removal and disposal of asphalt concrete curb, concrete curb, sidewalk, traffic signs, pavement marking and striping shall be considered incidental to various contract items and shall not be paid for separately.
31. Furnishing and installation of reinforcing bars, epoxy grout, premolded joint filler with sealant and bed course materials shall be considered incidental to Item 634.0100 - Portland Cement Concrete Sidewalk and shall not be paid for separately.
32. All existing Rectangular Rapid-Flashing Beacon (RRFB) assemblies in the project limits shall be removed and returned to the State Highways Division.
33. After completion of the work, the Contractor shall submit the complete set of "as-built" plans to the Engineer.
34. All new guardrail shall be Manual for Assessing Safety Hardware (MASH) compliant unless noted otherwise
35. Guardrail Paint:
- a. Contractor shall shop coat all members. Field coating shall be for existing guardrail and post, and of touch up only. 
- b. Color for top coat shall be brown color as approved by the Engineer. Intermediate coat shall have a contrasting light color. Finish top coat shall not be gloss or high gloss.
- c. See special coating options in the schedule below.

LEGEND:




-  New PMA Pavement Areas
-  Demolished & Removed A.C. Pavement Areas
-  Pavement Reconstruction Areas
-  Cold-Planing & Resurfacing Limits
-  HFST Application Areas
-  New Conc. Pedestrian Path
-  Existing Utility Pole
-  Existing Electrical Pullbox
-  Existing Cable/TV Pullbox
-  Existing Telephone Pullbox
-  Existing Street Light
-  Existing Lamp Pole
-  Existing Water Valve Box
-  Existing Water Meter Box
-  Existing Traffic Sign
-  New Traffic Sign
-  New Reflective Marker (RM-3) w/ Post
-  New Object Marker (OM2-2H)
-  Existing Metal Guardrail
-  New Metal Guardrail
-  Existing Fire Hydrant
-  Existing Sewer Manhole
-  Existing Sewer Cleanout
-  Existing Storm Drain Manhole
-  Existing Grated Drop Inlet
-  Existing Ground Elevation
-  Finished Grade Elevation

ABBREVIATIONS:

- AC ASPHALT CONCRETE
- ACB HOT MIX ASPHALT-TREATED BASE COURSE
- ADA AMERICANS WITH DISABILITIES ACT
- ARV AIR RELEASE VALVE
- AVE AVENUE
- # BASELINE
- BC BOTTOM CURB
- BFP BACK FLOW PREVENTER
- BMP BEST MANAGEMENT PRACTICES
- BW BOTTOM WALL
- ¢ CENTERLINE
- CATV CABLE/TELEVISION
- CB CATCH BASIN
- CD CONDUIT
- CLF CHAIN LINK FENCE
- CMU CONCRETE MASONRY UNIT
- CONC CONCRETE
- CRM CONCRETE RUBBLE MASONRY
- CY CUBIC YARD
- D DIAMETER OR DRAIN
- DI DRAIN INLET
- DOT STATE OF HAWAII DEPARTMENT OF TRANSPORTATION
- DS DOWN SPOUT
- ELEC ELECTRIC
- ELEV ELEVATION
- ep EXISTING EDGE OF PAVEMENT
- EP NEW EDGE OF PAVEMENT
- es EXISTING EDGE OF SHOULDER
- ES NEW EDGE OF SHOULDER
- FH FIRE HYDRANT
- GDI GRATED DROP INLET
- GW GUY WIRE
- H HEIGHT
- HFST HIGH FRICTION SURFACE TREATMENT
- HMA HOT MIX ASPHALT
- HWY HIGHWAY
- ICV IRRIGATION CONTROL VALVE
- INV INVERT
- LF LINEAR FEET
- LP LAMP POLE
- Lt. LEFT
- MASH MANUAL FOR ASSESSING SAFETY HARDWARE
- MH MANHOLE
- NTS NOT TO SCALE
- O/H OVERHEAD ELECTRICAL
- o/s OFFSET
- OM OBJECT MARKER
- PBX PANEL BOX
- PCCP PORTLAND CEMENT CONCRETE PAVEMENT
- PMA POLYMER-MODIFIED ASPHALT PAVEMENT
- PVMT PAVEMENT
- R RADIUS
- RD ROAD
- REF REFLECTOR
- RM REFLECTOR MARKER
- RPM RAISED PAVEMENT MARKING
- RRFB RECTANGULAR RAPID FLASHING BEACON
- Rt. RIGHT
- R/W RIGHT-OF-WAY
- SDMH STORM DRAIN MANHOLE
- S.E. SUPERELEVATION
- SF SQUARE FEET
- SHT SHEET
- SL STREET LIGHT
- SPR SPRINKLER
- SR STATE ROUTE
- ST STREET
- STA. STATION
- STD STANDARD
- T TANGENT
- TC TOP CURB
- TEL TELEPHONE
- TP TOP PIPE
- TS TOP STEM
- TW TOP WALL
- TYP. TYPICAL
- U/G UNDERGROUND
- UP UTILITY POLE
- W WATER
- WM WATER METER
- WV WATER VALVE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0560(017)	2023	ADD. 4	92

SPECIAL COATING SCHEDULE FOR ZINC COATED METAL BEAMS AND POSTS

	Option #1	Option #2	Option #3	Option #4
Preparation	Carboline Thinner #2 or Surface Cleaner #3 per SSPC-SP1, Apply Rustbound Penetrating Sealer	Solvent Clean per SSPC-SP1, Apply Sealer 513-V-110	Solvent Clean per SSPC-SP1 and as Recommended by the Manufacturer	Solvent Clean per SSPC-SP1, Apply Galvaprep Zinc Treatment
1st Coat:	Carboline 890 Epoxy DFT 5 mil (min.) WFT 7 mil (min.)	Valspar VyGuard V75 Epoxy DFT 5 mil (min.) WFT 7 mil (min.)	Sherman Williams Tile Clad High Solids B62 Series DFT 4 mil (min.) WFT 7 mil (min.)	PPG Amerlock 600 Epoxy  DFT 5 mil (min.) WFT 8 mil (min.)
Re-Coating Time:	8 Hrs. (min.) 2 Days (min.)	36 Hrs. (min.) 14 Days (min.)	8 Hrs. (min.) 10 Days (min.)	8 Hrs. (min.) 4 Days (min.) 
Top Coat:	Carboline 133HB Alyphatic Polyurethane DFT 5 mil (min.) WFT 7 mil (min.)	Valspar VyGuard V41 Series DFT 4 mil (min.) WFT 7 mil (min.)	Sherman Williams Corothane II B65 W200 Series / B60V2 DFT 4 mil (min.) WFT 7 mil (min.)	PPG Pitthane Ultra LS  Polyurethane DFT 4 mil (min.) WFT 7 mil (min.)



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES, LEGEND & ABBREVIATIONS

KUHIO HIGHWAY RESURFACING AND SAFETY IMPROVEMENTS


Route 560 M.P. 0.0 to M.P. 4.5

Fed. Aid Proj. No. STP-0560(017)

Scale: None Date: July, 2023

SHEET No. N-3A OF 6 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

10/12/23	 - Revised Paint Notes
DATE	REVISION