

GENERAL NOTES:

1. The scope of work includes the construction of median barriers, the installation of shoulder rumble strips, re-striping, the relocation of signage, and the relocation of a drain structure. Where needed to accommodate new rumble strips, the paved shoulder will be widened.

2. The Contractor is reminded of the requirements of Subsection 105.16 – Subcontracts, which requires him to perform work amounting to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.

3. The Contractor’s attention is directed to the following Sections of the Standard Specifications and Special Provisions: Subsection 107.06 – Contractor Duty Regarding Public Convenience; Subsection 107.11 – Safety: Accident Prevention; Subsection 107.12 – Protection of Persons and Property; 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 existence and location of underground utilities, manholes, monuments, and structures as shown in 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 or government agencies to verify the exact locations and depths of the existing utilities and obstructions. The Contractor shall exercise proper care in excavating 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. 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 and shall include all upgrades and betterments to the standards of the utility or agency.

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

7. The Contractor shall provide for free and safe access to and from all existing side streets at all times.

8. All saw cutting work shall be considered incidental to structural excavation or roadway excavation.

9. Where pedestrian walkways exist, they shall be maintained in a safe and passable ADA compliant condition, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided at all times. The Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and

bicycle traffic at the end of each work day. The Contractor shall provide for access to and from all existing driveways at all times. The Contractor shall coordinate with the Homeowner if driveway closure is required.

10. The Contractor shall comply with the directives of the State of Hawaii Occupational Safety And Health Law (HIOSH). Any citation (fine) received by the State for noncompliance by the Contractor shall be deducted from the progress payment.

11. This project may affect bus operations, bus routes, bus stops, and para-transit operations. At least two (2) weeks prior to construction, the Contractor shall provide notification of the scope of work, location, detour, proposed closure of any street, traffic lane, sidewalk, or bus stop and duration of project to:  
  
DTS-PTD: 768-8396 and TheBusStop@honolulu.gov  
Oahu Transit Services:  
Bus Operations: 848-4571 and 848-4565 and Field\_Operation\_Mgr@thebus.org  
Para-transit Operations: 454-5006 and 454-5083

12. The Contractor shall follow the requirements of various permits and Best Management Practices (BMP) during the construction.

13. No work or equipment shall be located or take place within 10’ of any overhead wires or any HECO utility pole without prior acceptance from the Engineer and HECO. No excavation shall take place within 5’ of any HECO utility pole without prior acceptance from the Engineer and HECO.

14. The Contractor is advised that in addition to other Contractors working in the same areas, various utility companies (or their contractors) including Hawaiian Electric Company, Hawaiian Telcom, Spectrum, Hawaii Gas, and the Board of Water Supply (BWS) may be performing work within the project area. Comply with Subsection 105.09 Coordination Between the Contractors.

15. The Contractor shall coordinate all work with other Contractors in the areas. In case of unreasonable conflict among contractors regarding access or work sites, the Engineer will make the final determination of priorities.

16. Smooth riding connections shall be constructed at all limits of the project, including the beginning and end of project, connecting approaches, side streets, driveways and all trench repairs as shown on the plans and/or as directed by the Engineer. Test in the presence of the Engineer with a 12-foot straight edge all pavement surface areas mentioned. It shall not vary more than 1/8 inch from the lower edge of a straightedge. Driveways may be excluded by the Engineer and another method used.

17. All necessary permits shall be obtained by the Contractor at his own cost.

18. All monuments shall be preserved during all construction phases whenever the center of a survey monument is less than three (3) feet from the edge of construction. The Contractor shall retain a Hawaii Licensed Surveyor to reference the location of said survey monument. If monuments are disturbed or destroyed, the Cadastral Engineering Section (HWY-DC) shall be notified prior to groundbreaking. Reconciliation to the Right-of-Way Baseline and/or a boundary study and determination may be required prior to re-installation of the disturbed or destroyed monuments. HWY-DC shall be contacted for guidelines and procedures. As to construction, a State of Hawaii Licensed Surveyor shall perform the location and staking of the reset monument. The DOT Standard Plans & 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.

19. 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 two 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 HWY-DC. All monument work shall be considered incidental to this project.

20. The Contractor is reminded to call the Hawaii One Call Center at (866) 423-7287 prior to starting any excavation work.

21. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities, curbs, sidewalks, and existing structures from damage due to construction. Repairing any damage shall be at the Contractor’s own expense, to the satisfaction of the Engineer.

22. The Contractor shall observe and comply with the administrative rules of The Department of Health regarding noise control of Oahu.

23. All public notices and advertisements shall be incidental to lump sum traffic control item 645.0100 – Traffic Control, and shall not be paid separately, unless otherwise directed by Engineer.

24. All work specified in the Contract but not listed separately in the proposal schedule shall be considered incidental to the various contract items and shall not be paid for separately.

25. The Contractor shall develop traffic control plans needed to accomplish the work based on contractor’s means and methods considering site conditions and construction sequence in accordance with the Contract Documents including applicable Manual Uniform Traffic Control Devices (MUTCD) requirements. All lane traffic control plans and closure requests shall be submitted to the Engineer for approval in accordance with Specifications Section 645 – Work Zone Traffic Control and Section 105.04 –Review and Acceptance Process. For restrictions on lane closures, detours, construction work during peak hours, and other requirements regarding maintaining vehicular and pedestrian traffic, see Section 107.06 – Contractor Duty Regarding Public Convenience and Section 645 – Work Zone Traffic Control. All traffic control related costs including TCP preparation shall be included in the lump sum traffic control pay item and shall not be paid for separately.

26. The Contractor shall independently tone areas of excavation not more than 30 days prior to excavation. Provide written notice of scheduled toning and specific locations to the Engineer at least one week ahead of toning. The Contractor shall obtain DOT as-builts at the DOT Kapolei Kakuhihewa Building to locate potential conflicts with utilities prior to excavation. If there is a potential conflict, contractor shall inform DOT within 24 hours of discovery. Contractor shall probe around area and take precautions to not damage utilities. This work shall be incidental to various contract items and shall not be paid for separately.
- | FED. ROAD DIST. NO. | STATE | FED-AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HSIP-093-1(031)   | 2022        | 3         | 62           |
- |               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
| No.           | TRACED BY         |      |
|               | DESIGNED BY       |      |
|               | QUANTITIES BY     |      |
|               | CHECKED BY        |      |
- RYAN B. VALERO

LICENSED PROFESSIONAL ENGINEER

NO. 18051-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature

4/30/24

EXPIRATION DATE OF LICENSE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

GENERAL NOTES – 1

FARRINGTON HIGHWAY

SAFETY IMPROVEMENTS

Pohakunui Avenue to Interstate H-1

Federal Aid Project No. HSIP-093-1(031)

Date: November 2021

SHEET No. 1

OF 3

SHEETS

3



ORIGINAL PLAN

NOTE BOOK

No. \_\_\_\_\_

SURVEY PLOTTED BY \_\_\_\_\_

DRAWN BY \_\_\_\_\_

TRACED BY \_\_\_\_\_

DESIGNED BY \_\_\_\_\_

QUANTITIES BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

DATE \_\_\_\_\_

GENERAL NOTES (CON'T):

27. The Contractor shall contact Hawaii One Call Center to have respective utility companies and agencies mark where their underground utilities are located. The Contractor shall comply with all requirements of Hawaii One Call law. The Contractor shall be liable for any damage if Hawaii One Call requirements are not strictly adhered to. In accordance with Hawaii State Law Section 269E-7, the Hawaii One Call Center (HOCC) shall provide an inquiry identification number and utility marks shall remain valid for not more than twenty-eight (28) calendar days from the date of issuance and after that date shall require the Contractor to submit a new request for HOCC revalidation. The Contractor shall provide all inquiry identification numbers for each location request to the Engineer.
28. Submit requests for detours, ramp, and lane closures in accordance with Hawaii Standard Specification Subsection 645.03(F). Refer to minimum time frames required for implementation.
29. If the traffic control plan or any traffic control device is not installed per plan, specification, or is deemed unsafe, the Engineer reserves the right to shut down the work at no additional cost/time or withhold payment.
30. The Contractor shall provide for quality control of work. The Contractor shall submit copies of all measurements and test results to the Engineer once obtained.
31. The exact locations and limits of areas to be excavated or cleared shall be located in the field by the Contractor and accepted by the Engineer. The Contractor shall not begin any work until the Engineer verifies and accepts the location and limits of the area. Any area that is not accepted by the Engineer will be considered unauthorized work and shall not be paid for.
32. The Contractor shall verify the presence of existing utilities which may conflict with 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 and shall be incidental to the various pay items.
33. The Contractor shall comply with utility coordination requirements per Standard Specification Section 104.11. As part of coordination requirements, the Contractor shall include carbon copy the Engineer in all correspondences with utilities.
34. All materials shall be new and free of defects, such as rust, damage, or corrosion. The Engineer will determine acceptability. No payment will be made for material that is not accepted by the Engineer.
35. The Contractor shall allow access to all materials that will be used in the project for inspection and/or testing (this includes but is not limited to access to contractor or subcontractor's base yards, manufacturer yard, production plant, separate storage areas). The Engineer reserves the right to reject any material for which access or inspection is not allowed.

36. The Permit to Perform Work Upon State Highway may be suspended or revoked due to non-compliance with any of the following, but not limited to, conditions:
- a) Work or lane closures performed before or after permitted hours.
- b) Failure to maintain roadway surfaces in a smooth and safe condition.
- c) Failure to clean up construction debris generated from project work.
- d) Failure to provide proper traffic control.
- e) Failure to replace damaged pavement markings and signs.
- f) Failure to maintain highway lights and/or traffic signal systems.
- g) Failure to maintain or install traffic control devices.
- h) Failure to address public complaints to the satisfaction of the engineer.
- i) Unauthorized lane closures.
37. All material generated by the project and taken off-site shall be considered solid waste. The Contractor shall dispose of all removed material at an approved Department of Health waste management facility. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer by the last day of the month. Provide documentation from any intermediary facility where solid waste is handled or processed, haul tags, or any documentation as requested by the Engineer. If the Contractor elects to reclassify material as inert full, DOH HEER testing guidance shall be followed at no additional cost to the State. No material generated from this project shall be classified as inert fill material for reuse without testing, obtaining required approvals/permits, providing disposal locations/quantities, and obtaining prior written approval from the engineer. Failure to comply with these requirements may result in fines/liquidated damages in accordance with Special Provisions Section 209 and HDOT's Enforcement Response Plan.
38. Prior to paving or demolition operations, the Contractor shall be responsible for locating, preserving, referencing, and marking all utility and highway facilities that will require adjustments to the new finished grade. The Contractor shall coordinate with the Engineer for site verification and subsequently submit a list of all items to be adjusted to the new finished grade. Coordination with state Construction Surveyor shall be done separately.
39. The Contractor shall develop construction phasing strategies to accomplish construction activities and shall be accepted by HDOT prior to implementation.

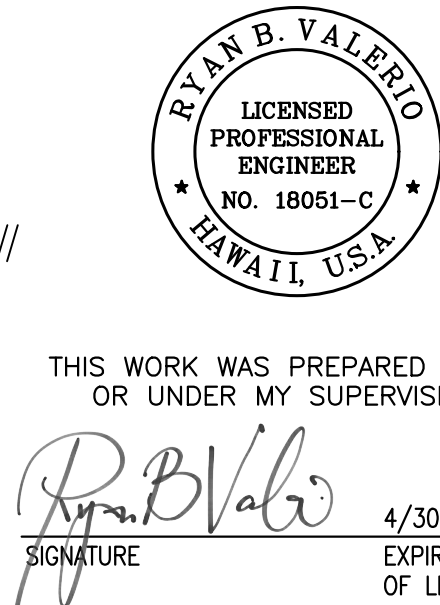
HAWAII ONE CALL CENTER:

1. Before conducting any excavation in the public right of way or on private property, call the Hawaii One Call Center at least five (5) working days before planning to dig. Be sure to give them the address and location of the nearest cross street(s) near where digging is planned.
- Call 811 toll-free 24 hours a day.  
For more information, go to [www.callbeforeyoudig.org](http://www.callbeforeyoudig.org)
2. The Hawaii One Call Center will contact all utility companies to tone, mark or identify the location of their underground utilities for free. Mark the area where Contractor plans to excavate in white and label all of the other utilities as listed below.

RED	Electric power lines, cables, or conduits, and lighting cables.
YELLOW	Gas, oil, steam, petroleum or other hazardous liquid or gaseous materials.
ORANGE	Communications, cable TV, alarm or signal lines, cables, or conduits.
BLUE	Water, irrigation, and slurry lines
GREEN	Sewers, storm sewer facilities or other drain lines
WHITE	Proposed excavation.
PINK	Temporary survey markings.
PURPLE	Reclaimed water, irrigation and slurry lines.

PUBLIC HEALTH, SAFETY, AND CONVENIENCE NOTES:

1. The Contractor shall observe and comply with all Federal, State, and Local laws required for the protection of public health and safety and environmental quality.
2. The Contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the air pollution control standards and regulations of the State Department of Health. The City may require supplementary measures as necessary.
3. No Contractor shall perform any trenching operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural water-courses. Should such violations occur, the cost incurred shall be borne by the Contractor. For any remedial action by the Director, HDOT shall be payable by the Contractor.
4. The Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the protection, convenience, and safety of the public. The Contractor shall apply for a construction permit with a noise pollution control plan if work should extend beyond permitted working hours.



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	4	62

ARCHAEOLOGICAL NOTES:

1. In the event that an archaeological or historic structure within the work area is inadvertently damaged during construction, cease work in the vicinity of the site and notify the Engineer and the State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources of the damage. SHPD will determine the appropriate mitigation measures.
2. In the event that a previously unknown archaeological feature is exposed by construction, cease work in the vicinity of the new feature and notify the Engineer and SHPD of the new discovery.
3. In the event that previously unknown human remains are exposed by construction, cease all work in the area of the remains, and protect the area with an appropriate material. Notify the Engineer and SHPD at 692-8015.
4. If human remains are discovered, HAR Title 13, Subtitle 13, Chapter 300 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the State Historic Preservation Division and the Police Department will be contacted. The appropriate process would then proceed in conformance with HAR 13-300 Subchapter 4, "Procedures for Proper Treatment of Burial Sites and Human Skeletal Remains."
5. If any lava tube or coral cavern is uncovered during earthwork operations, the Contractor shall cease all ground work in the area and immediately notify the Archaeological Monitor and the Engineer. With or without the help of the Archaeological Monitor, the Engineer will assess the situation. If the Engineer has any doubts as to the extent and/or significance of the discovery, the Engineer will contact the appropriate regulatory agency (e.g., State Historic Preservation Division).

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES - 2

FARRINGTON HIGHWAY  
SAFETY IMPROVEMENTS

Pohakunui Avenue to Interstate H-1  
Federal Aid Project No. HSIP-093-1(031)

Date: November 2021

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-093-1(031)	2022	5	62

ABBREVIATIONS:

AFG	Above Finished Grade
BL	Base Line
BC	Bottom Curb
cb	Catch Basin
CL	Center Line
CRM	Concrete Rubble Masonry
di	Drain Inlet
Dia.	Diameter
e/p	Existing Edge of Pavement
E/P	Edge of Pavement
e/s	Existing Edge of Shoulder
E/S	Edge of Shoulder
et	Existing Edge of Travel Way
ET	Edge of Travel Way
Exist.	Existing
F'c	Minimum Specified Compressive Strength of Concrete
HDOT	Hawaii Department of Transportation
HMA	Hot Mix Asphalt
KAL	Kalaniana'ole Highway Alignment
LF	Linear Feet
Lt.	Left
MBGR	Existing Metal Beam Guardrail
Max.	Maximum
MGS	Midwest Guardrail System
Min.	Minimum
No.	Number
NTS	Not to Scale
NWC	Normal Weight Concrete
o.c.	On Center
O/S, o/s	Offset
PC	Point of Curvature
PCF	Pounds per Cubic Foot
PT	Point of Tangency
P	Property Line
R	Radius
RPM	Raised Pavement Marker
R/W, r/w	Right-of-way
Rt.	Right
SF	Square Feet
Shts.	Sheets
SOH	State of Hawaii
Sta.	Station
TC	Top Curb
Thk.	Thick
TMK	Tax Map Key
Typ.	Typical
UNO	Unless Noted Otherwise

LEGEND

◦ <sub>rm</sub>	Existing Reflector Marker
▣ <sub>lp</sub>	Existing Light Pole
— <sub>swl</sub> —	Single White Line
— <sub>syl</sub> —	Single Yellow Line
== <sub>dyl</sub> ==	Double Yellow Line
— <sub>s/bar</sub> —	Existing Stop Bar
— <sub>byl</sub> —	Existing Broken Yellow Line
● <sub>mon.</sub>	Existing Monument
Ⓟ	Existing Traffic Sign
— <sub>r/w</sub> —	Existing Right-of-Way Line
-----	Existing Fence

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



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

SIGNATURE  
*Ryan B. Valero*

EXPIRATION DATE  
4/30/24  
OF LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ABBREVIATIONS & LEGEND

FARRINGTON HIGHWAY  
SAFETY IMPROVEMENTS

Pohakunui Avenue to Interstate H-1  
Federal Aid Project No. HSIP-093-1(031)

Date: November 2021