

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-22	2022	3	33

1. The scope of work for this project consists of cold planing; resurfacing; utility adjustment; widening; regrading; hydro-mulch seeding; installation of guardrail, end treatments, grouted rubble paving (GRP), safety edge, shoulder dressing, pavement markings, striping, and signs.

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 Special Provisions: Subsection 104.09 - Maintenance of Traffic; Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and the 2005 Hawaii Standard Specifications for Road and Bridge Construction Section 645 - Work Zone Traffic Control.

4. 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 other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground utilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, installation of guardrail, widening, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for seperately. 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 in accordance with the standards and specifications of the affected utility company at no cost to the State.

5. All existing utilities, whether or not shown on the plans, shall be protected at all times by the Contractor during construction unless specified on the plans to be abandoned. The Contractor shall be held liable for any damages incurred to the existing utilities as a result of his operations. All damaged portions shall be replaced in accordance with the Standards and Specifications of the affected utility company at no cost to the State.

6. 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 relocations, as necessary. All costs associated with temporary relocations shall be borne by the Contractor.

7. 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 damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.

8. Prior to resurfacing operations, the Contractor shall be responsible for locating, preserving and marking all utility and 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.

9. The Contractor shall submit maintenance plans and schedules, including road or lane closures, lane switches, and the placement of temporary traffic control devices to the Engineer for acceptance prior to Construction.

10. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.

11. The exact locations and limits of areas to be cold planed shall be determined in the field by the Engineer.

12. The Contractor shall obtain all necessary permits prior to start of work at his own cost.

13. 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.

14. The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Hot Mix Asphalt Pavement, Mix No. IV and will not be paid for separately.

15. 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 various contract items.

16. The existing drainage system shall be kept 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 various contract items.

17. Smooth riding connections shall be constructed at all limits of resurfacing 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 various contract items.

18. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to various contract items.

19. Tack coat shall be incidental to various Asphalt Concrete Pavement items.

20. Dressing of shoulder 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. This work shall be considered incidental to the various contract items.

21. Removal and disposal of existing guardrail, end terminals, asphalt concrete pavement, and any debris shall be considered incidental to their respective bid items.

22. Construction of this project shall not affect transit operations. Bus routes and bus stops shall remain open and accessible at all times. Any work affecting bus operations, routes, or stops must be submitted to DTS-TMD for review no less than 30 days prior to the start date.

Point of Contact Information (Notification is required to all phone numbers and emails):

DTS-TMD
(808) 768-8371
thebusstop@honolulu.gov
handivan@honolulu.gov

Oahu Transit Services - Bus Operations
(808) 768-9520
(808) 768-9534
Sean-bennett.paio@thebus.org
Joshua.vaoalii@thebus.org
Walter.oba@thebus.org

Oahu Transit Services - Paratransit Operations
(808) 768-9802
(808) 768-9851
(808) 454-5021
Tracie.coelho@thebus.org
Richard.mole@thebus.org

23. All saw cutting and safety edge work shall be considered incidental to various contract items.

24. The Contractor shall provide for vehicular and pedestrian access to and from all existing side streets and driveways at all times.

25. Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.

26. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.

27. Contractor shall dispose or deliver any removed material at no cost to the State.

28. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks, ADA access routes complying with 2010 ADAAG Section 206.1, side streets, and cross streets at all times. This work shall be considered incidental to various contract items and will not be paid for separately.

29. After completion of resurfacing, the Contractor and the Engineer will test for and determine ponding areas (i.e. low spots within resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas. Corrective measures shall be approved by the Engineer.

30. The Contractor is to take special measures to reduce dust from cold planing operations including but not limited to use of water misters on cold planing equipment and vacuum sweepers. Use of power brooms to sweep road is not allowed if a dust nuisance is created.

31. The vertical riding surface drop-off between adjacent surfaces shall not exceed 2-inches. This shall include differences in height between adjacent pavement surfaces, cold planed surfaces, bridge decks and new concrete slabs. If a vertical riding surface drop-off exists at the end of each day's work, the Contractor shall provide temporary transition tapers with maximum slopes of 48:1 for travel in the longitudinal direction and 6:1 for transverse movements. See detail on Sheet No. A1.

32. The Contractor shall not perform any construction work during periods of heavy rainfall.

33. The Contractor shall use the Traffic Control setup included in the 2005 Hawaii Standard Specifications for Road and Bridge Construction Section 645, and/or develop a site specific Traffic Control Plan where warranted.

34. The Contractor shall coordinate with the Honolulu Police Department Special Duty Section to hire police officers for traffic control operations and transporting of project equipment to ensure minimal delay due to lane closures.
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|---------------|-------------------------|------------|
| ORIGINAL PLAN | SURVEY PLOTTED BY _____ | DATE _____ |
| | DRAWN BY _____ | _____ |
| | DESIGNED BY _____ | _____ |
| | CHECKED BY _____ | _____ |
| NOTE BOOK | No. _____ | |
- STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

FORT BARRETTE ROAD IMPROVEMENTS

VICINITY OF KAMAHAH AVENUE TO VICINITY OF FARRINGTON HIGHWAY

PROJECT NO. 901A-01-22

Date: April, 2022
- SHEET No. 1 OF 2 SHEETS
- 3

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

GENERAL NOTES (Cont.)

35. Any Survey Monuments that are disturbed shall be restored under the supervision of a licensed land surveyor registered in the State of Hawaii at no cost to the State. All survey data shall be certified by the surveyor and submitted to the Engineer.
36. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to the other various contract items and shall not be paid for separately.
37. Material and/or equipment shall be stockpiled or stored within the highway right-of-way 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 State Highways Right-of-Way Branch at ph. #692-7332.
38. The Contractor shall probe to verify the exact location of any underground utilities within the project limits prior to installing guardrail posts. The Contractor shall adjust the location of guardrail posts accordingly to account for the actual locations of underground utilities. Any adjustments to the contract or underground utilities shall be considered incidental to various items of work. The Contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at the Contractor's expense.
39. Hydro-mulch Seed newly graded areas with Bermuda Seeding.
40. For toning of US Army Cables, one of the following vendors shall be utilized to do the work:
1. Verizon Federal/AT&T
Contact: Doug Ellenberg (Douglas.Ellenberg@verizon.com) or Nichole Nakamichi (Nichole.L.Nakamichi@verizon.com)

2. Bering Sea (BSeT)
Contact: Shelton Choy (Shelton.Choi@beringseagroup.com)
- Cables shall be toned prior to the start of the project.

PAVING AROUND MANHOLES

1. The Contractor shall first lower manholes more than cold planing thickness indicated on typical sections prior to cold planing. The work shall be considered incidental to the various paving contract items. Upon final paving, the manhole shall be raised and paid under the various contract items pertaining to manhole adjustments.
2. The Contractor shall place hot asphalt concrete around manholes and compact properly with a vibrating plate compactor.
3. If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around the manhole which is not rolled by the steel roller.
4. The Contractor shall fog seal or brush emulsion seal on the material placed as backfill on the area around the manhole that was not compacted by the roller. Black sand shall be used to blot our the area if the fog is too heavy.

HAWAII ONE CALL CENTER

1. 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 damages 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 for each location request provided by the Contractor. The 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 and provide written notice of scheduled toning at least one week ahead of toning. If there is a potential conflict, contractor shall inform DOT within 24 hours of discovery. Contractor shall probe around area with hand tools and take precautions to not damage utilities. The Contractor shall independently verify the toned areas of excavation prior to excavation. This work shall be incidental to various contract items and shall not be paid for separately.
2. Before conducting any excavation in the public right of way or on private property, the Contractor shall call the Hawaii One Call Center at least five (5) working days before beginning excavation operations. Be sure to give them the address and location of the nearest cross street(s) near the planned excavation site. Call 811 toll-free 24 hours a day. For more information, go to www.callbeforeyoudig.org. 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 you plan 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.

HAWAIIAN TELCOM UTILITY ADJUSTMENT NOTES

1. Adjust existing manholes to the required elevations to match final roadway surface. All applicable construction work shall be in accordance with the "Hawaiian Telcom Standard Specifications for Placing Telephone Systems" dated January 2007, all subsequent amendments and additions, and all other pertinent standards for telecommunications construction. The Contractor shall familiarize his personnel by obtaining the applicable specifications.

DIVISION OF FORESTRY AND WILDLIFE NOTES

1. To avoid impacts to the Hawaiian hoary bat, no barbed wire shall be used, and woody plants greater than 15 feet tall shall not be disturbed, removed or trimmed during the bat birthing and pup rearing season (June 1 through September 15).
2. If nighttime lighting is required, any lights used shall be fully shielded to minimize impacts to native seabirds.
3. Soil or plant material shall not be moved from the project site to be used in other locations on the island due to the possible presence of pathogens.

	Resurfacing Limits
	Existing Electrical Line
	Existing Guy Pole
	Existing Power Pole
	Existing Hawaiian Electric Manhole
	Adjusted Elec. MH Frame/Cover
	Existing Hawaiian Electric Hand Hole
	Existing Hawaiian Electric Pullbox
	Existing Underground Telephone Line
	Existing Telephone Pole
	Existing Telephone Manhole
	Adjusted Telphone Manhole Frame/Cover
	Existing Telephone Hand Hole
	Existing Hawaiian Telcom Manhole
	Adjusted Hawaiian Telcom Manhole Frame/Cover
	Existing Hawaiian Telcom Pullbox
	Existing Signal Corps Line
	Existing US Army Line
	Existing US Navy Line
	Existing TV Manhole
	Adjusted TV Manhole Frame/Cover
	Existing TV Cable
	Existing 30" Water Line
	Existing 24" Water Line
	Existing 12" Water Line
	Existing 8" Water Line
	Existing 6" Water Line
	Existing 4" Water Line
	Existing 2 1/2" Water Line
	Existing 2" Water Line
	Existing 1 1/2" Water Line
	Existing 1" Water Line
	Existing Water Manhole
	Adjusted Water MH Frame/Cover
	Existing Water Air Valve
	Adjusted Water Air Valve
	Existing Water Valve Box
	Adjusted Water Valve Box
	Existing Water Meter
	Adjusted Water Meter
	Existing Fire Hydrant
	Adjusted Fire Hydrant
	Existing Irrigation Box
	Existing 42" Reinforced Concrete Pipe
	Existing 30" Reinforced Concrete Pipe

LEGEND

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	901A-01-22	2022	4	33

	Existing 24" Sewer Line
	Existing 21" Sewer Line
	Existing 18" Sewer Line
	Existing 6" Sewer Line
	Existing Sewer Manhole
	Existing Oil Line
	Existing 6" Gas Line
	Existing 4" Gas Line
	Existing 2" Gas Line
	Existing 1" Gas Line
	Existing 3/4" Gas Line
	Existing Gas Valve Box
	Adjusted Gas Valve Box
	Existing Gas Manhole
	Adjusted Gas MH Frame/Cover
	Existing Monument
	Adjusted Monument
	Existing 24" Drain Line
	Existing Storm Drain Manhole
	Adjusted Storm Drain MH Frame/Cover
	Existing Grated Drop Inlet
	Existing Catch Basin
	Existing Highway Lighting Standard
	Existing Highway Lighting Standard Pullbox
	Adjusted Highway Lighting Standard Pullbox
	Existing Traffic Signal Pole
	Existing Traffic Signal Pole
	Existing Traffic Signal Pullbox
	Adjusted Traffic Signal Pullbox
	New Traffic Signal Pullbox
	Existing Utility Pullbox

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Date: April, 2022