# GENERAL NOTES

- The scope of work for this project consists of cold planing and resurfacing full depth reconstruction; replacing existing guardrails; reconstruction of existing asphalt concrete gutters; installing pavement markings, signs, median and shoulder rumble strip, milepost reference markers; utility adjustment; removal of existing invasive Opiuma trees.
- The Contractor shall obtain all necessary permits prior to start of work at his own cost.
- 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; Section 645 - Work Zone Traffic Control; and Section 697 - Public Communication and Coordination.
- Contractor staging and storage areas identified in the environmental documents have been permitted for NPDES and Noise Variance, but the Contractor shall obtain permission to use the areas prior to construction. If the Contractor would like to use other areas that have not been included in the NPDES permit, the contractor shall be responsible for obtaining necessary permits at his own cost.
- 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.
- 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.
- For night and weekend work, the Contractor shall follow all work hours, conditions, and other restrictions as specified in the noise variance and the Special Provisions. See Special Provisions Subsection 107.03 - Working Hours; Night Work.
- The Contractor shall not perform any construction work during periods of heavy rainfall.
- The Contractor shall notify the Department of Transportation Services Transportation Mobility Division (DTS-TMD) no less than 30 days prior to the start date of work, DTS-TMD shall review and approve the scope of work, location, and duration of any work that affects bus operations, routes or stops. Notification is required to all of the following phone numbers and emails: DTS-TMD - (808) 768-8396, TheBusStop@honolulu.gov, handivan@honolulu.gov; Oahu Transit Services Bus Operations - (808) 768-9520, (808) 848-4565, John.Donovan@thebus.org, Spaio@thebus.org, FIELD-0PS-MGR@thebus.org; Oahu Transit Services Para-transit Operations - (808) 454-5006.
- 10. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations, a minimum of eight (8) weeks prior to implementation of detour routes, and a minimum of six (6) weeks prior to implementation of lane closures. See all requirements for lane closures in Special Provisions Section 645 - Work Zone Traffic Control. See all requirements for public notification, communication, and coordination in Special Provisions Section 697 -Public Communication and Coordination.
- 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 with locations, including water, drainage, sewer, electrical, telephone, survey monuments, and cable utilities to be adjusted to the new finished grade.

- 12. 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 the 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 in accordance with the Standard Specifications and shall include all upgrades and betterments to the standards of the utility or agency at no cost to the State.
- 13. 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.
- 14. 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 companies.
- 15. 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.

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.

REDElectric power lines, cables, or conduits, and lighting

Gas, oil steam, petroleum or other hazardous liquid or YELLOW gaseous materials.

ORANGE Communications, cable TV, alarm or signal lines, cables, or /2conduits.

BLUE Water, irrigation, and slurry lines.

Sewers, storm sewer facilities or other drain lines.

WHITEProposed excavation.

PINK Temporary survey markings.

Reclaimed water, irrigation and slurry lines.

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- 16. The Contractor shall be responsible for referencing and preserving all survey monuments on State property. The Contractor shall coordinate with the State Construction Surveyor prior to construction to locate and verify all monuments. All survey monuments disturbed or destroyed by the Contractor shall be reinstalled at no cost to the State. Only a licensed State of Hawaii Land Surveyor shall reference, locate, adjust or reinstall monuments. Adjusted or reset monuments shall comply with Standard Plan D-07 or D-08 where applicable. Following the completion of the monuments, their locations shall be checked. The monuments must check within a tolerance of the smaller of 1:20,000 for distance and alignment or a maximum positional error of 0.03 feet. Failure to meet the tolerance will require the Contractor to reset the monuments. All costs associated with coordination, referencing, preserving, adjusting, installation, and verification of survey monuments is included in the various contract pay items and shall not be paid for separately.
- 17. 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.
- 18. Prior to construction the contractor shall submit reconstruction area calculations including dimensions, areas, and tonnage in milestone increments consistent with the schedule for the various pavement and reconstruction work.
- 19. The exact locations and limits of areas to be filled with Hot Mix Asphalt Pavement, Mix No. V, cold-planed, reconstructed, or excavated shall be determined in the field by the Contractor. The Contractor shall provide drawings showing the location and outlines of the proposed repair areas for review and acceptance.
- 20. The Contractor may elect to reconstruct the entire depth of pavement reconstruction with subsequent cold planning as a means and methods for doing the work. However, the State will not pay for the extra asphalt concrete base that is later removed. Any area of pavement section that is cold planed or excavated a second time will not be paid for.
- 21. The Contractor shall remove and dispose of all existing raised pavement markers and traffic tapes prior to the overlaying of Asphalt Concrete. The removal and disposal of the pavement markers shall be incidental to the contract work.
- 22. All holes, depressions and wheel ruts shall be filled and compacted with Hot Mix Asphalt Pavement, Mix No. V prior to resurfacing.
- 23. 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.
- 24. 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.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

INTERSTATE ROUTE H-1 REHABILITATION SALT LAKE BOULEVARD TO AIRPORT VIADUCT

FEDERAL-AID PROJECT NO. NH-H1-1(275) Date: October, 2021

SHEETS SHEET No. 1

11/19/21 Made additions to Note #15.

Moved Notes #25, #26, #27, and #28 to the next General Notes Sheet No. 4.

REVISION

1/21/22 Removed all Radar Traffic Counting System plans and items from the scope of work.

DATE

#### GENERAL NOTES (Continued)

- 25. The Contractor shall clean and remove any accumulation of aggregates/1 $^{ extstyle 1}$ along the roadside within 10 feet of the edge of pavement.
- 26. After completion of resurfacing, the Contractor and the Engineer will /1test 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. Corrective measures shall be approved by the Engineer.
- 27. The Contractor is to take special measures to reduce dust from cold planing operations including but not limited to use of water misters on extstyle ecold planing equipment and vacuum sweepers. Use of power brooms to sweep road is not allowed if a dust nuisance is created.
- 28. Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition  $\angle$   $^1$ at no cost to the State.
- 29. All roadway paving work shall be performed over the weekend from Friday night to Monday morning. See Special Provisions Section 645 -Work Zone Traffic Control for lane closure hours.
- 30. The final lift of asphalt concrete shall be placed prior to opening lanes up to traffic. There shall not be any vertical riding surface drop-off between adjacent surfaces at the end of each day's work.
- 31. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.
- 32. The exact locations and limits of guardrail improvements shall be determined in the field by the Contractor. The Contractor shall not begin work until the quardrail limits are verified and accepted by the Engineer. Removal of existing guardrail shall be considered incidental to the various guardrail items.
- 33. No section where guardrails have been removed shall be left unshielded and exposed to traffic. Open sections shall be shielded with portable physical barriers. Furnishing, installing, and maintaining physical barriers shall be considered incidental to the various contract items.
- 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. No material and/or equipment shall be stockpiled or stored within the highway right-of-way except at locations designated in writing 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.
- 36. The contractor shall allow HDOT personnel 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.

- 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 each 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 fill, DOH HEER testing guidance shall be followed. 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. All costs for handling, testing, and disposal shall be considered incidental to the contract work. 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. Removal and disposal of existing quardrail, end terminals, asphalt concrete pavement, and any debris shall be considered incidental to their respective bid items.
- 39. Contractor shall dispose or deliver any removed material at no cost to the State.
- 40. Traffic control plans shown or referred to in the Contract Documents are minimum requirements and do not constitute a complete traffic control plan. The Contractor shall provide any traffic control plan that is 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 closures or traffic pattern changes (detours) not shown on the plan shall be submitted to the Engineer for approval in accordance with Specifications Section 645 Work Zone Traffic Control. 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 shall be included in the lump sum traffic control pay item and shall not be paid for separately.
- 41. The Contractor shall develop site specific traffic control plans and detour plans for all traffic control to be used on the project.
- 42. 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.
- 43. The Contractor shall submit schedules, including traffic detours, road or lane closures, and the placement of traffic control devices, to the Engineer for acceptance prior to construction. See Special Provisions Section 645.03(F) for submittal time frames.
- 44. All public notices and advertisements shall be incidental to lump sum traffic control item 645.0100 Traffic Control, and shall not be paid for separately, unless otherwise directed by Engineer.
- 45. 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.

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- 46. 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.
- 47. The Contractor shall provide for quality control of work. The Contractor shall submit copies of all measurements and test results to the Engineer. The Contractor shall submit quality inspection reports daily to the Engineer.
- 48. 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. Noncompliance with this Subsection may be grounds for rejection of bid.
- 49. Work specified in the contract documents, or otherwise required to complete the project, but not itemized specifically in the proposal schedule shall be considered incidental to the various contract items and shall not be paid for separately.
- 50. The contract pay items including lumps sum and unit prices shall be all inclusive of Contractor means and methods of doing the work specified in the contract.
- 51. Work may be suspended due to noncompliance with of 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.
  - i. Unauthorized lane closures.

Any suspension of work shall be at the Contractor's expense and at no additional cost to the State and no additional contract time will be added.

52. HDOT concrete barriers will not be available for Contractor to use.

/1\ 53. Refer to As-Built Plans titled Interstate Route H-1 Halawa Interchange to Middle Street Interchange, Non-Potable Water System, Federal Aid Interstate Project No. IR-H1-1(211) (Board of Water Supply Job No. 90-002S) for existing non-potable water line profile as provided in Addendum No. 1.

> STATE OF HAWAII HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

INTERSTATE ROUTE H-1 REHABILITATION SALT LAKE BOULEVARD TO AIRPORT VIADUCT FEDERAL-AID PROJECT NO. NH-H1-1(275)

> Date: October, 2021 SHEET No. 2 OF 3 SHEETS

REVISION

11/19/21 Moved Notes #25, #26, #27, and #28 from General Notes Sheet No. 3 to

this sheet. Added Note #53.

DATE

SURVEY PLOTTE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ADD. 4

## GENERAL NOTES (Continued)

54. The State will be obtaining a Community Noise Permit to /1\ allow the following work to be performed on Saturdays from 9:00am to 6:00pm: cold planing and resurfacing of existing asphalt concrete pavement, full depth reconstruction, replacing existing guardrails installation of median and shoulder rumble strip, utility adjustment, and removal of existing invasive Opiuma trees.

## 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 Contract Item 626.1000 - Adjusting (Water) Standard Valve Box and Contract Item 626.1100 - Adjusting Non-Potable Water Manhole Frame and Cover. 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 out the area if the fog is too heavy.

#### ZIPPER LANE DEPLOYMENT AREA NOTES

- 1. The Contractor shall coordinate with the Zipper Lane operator to minimize interference with Zipper Lane barrier deployment. Work within Zipper Lane Deployment Area (ZLDA) shall be allowed six (6) weekends maximum with Zipper Lane barrier deployed. There shall be no exceptions or extensions for any hours of work within the ZLDA For hours of allowable lane closures within the ZLDA, See Special Provisions Section 645 - Work Zone Traffic Control.
- 2. The Contractor shall coordinate with the Zipper Lane operator when requiring Zipper Lane gate arms to be raised or lowered during construction.
- The cost for the Zipper Lane barrier deployment shall be considered incidental to Contract Item 645.1000 - Traffic Control

#### ENDANGERED SPECIES NOTES

- All work lights shall be shielded so the bulb can only be seen from below bulb height, shall contain less than 2% wavelengths less than 500 nm, shall be situated so that light does not shine on reflective surfaces, and shall only be used when construction is occurring in the area illuminated by the light.
- Woody plants greater than 15 feet tall shall not be disturbed, removed, or trimmed during the Hawaiian hoary bat birthing and pup rearing season, June 1 through September 15.

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	NH-H1-1(275)	2021	ADD. 5	65

## LEGEND

	Reconstruction At Settled Area A		Existing 27" Sewer Line
	Reconstruction At Settled Area B	OAMh	Existing Sewer Manhole
	Reconstruction At Settled Area C	—— <i>0</i> —— <i>2</i> ——	Existing 2" Gas Line
¬		U	•
<sup>1</sup> 1		U	Existing 10" Gas Line
	Resurfacing Limits	—g—16—	Existing 10" Gas Line
e	Existing Electrical Line	$\bigcirc$	Existing Manumont
$\bowtie_{pb}$	Existing Pull Box	***************************************	Existing Monument
U	Existing Power Pole		Existing 24" Drain Line
0 0	_	d30	Existing 30" Drain Line
°emh	Existing Electric Manhole	d36	Existing 36" Drain Line
1		d42	Existing 42" Drain Line
	Existing Telephone Line	d48	Existing 48" Drain Line
$^{\circ}$ h $t$ com $t$	Existing Hawaiian Telcom Manhole		Existing 66" Drain Line
□htpb	Existing Hawaiian Telcom Pull Box		Existing 102" Drain Line
—— & C ——	Existing Signal Corps Line		Existing Storm Drain Manhole
			-
— W— 8 —	Existing 8" Water Line	U .	Existing Grated Drop Inlet
— NAV w—12—	Existing 12" Navy Water Line	<i>cb</i>	Existing Catch Basin
— NAV w—30—	Existing 30" Navy Water Line		
— npw—20—	Existing 20" Non-Potable Water Line	Pta	Existing Traffic Sign
°npwmh	Existing Non-Potable Water Manhole		
U	Adjusted Non-Potable Water MH Frame/Cove	er Spl	Existing Highway Lighting Standard
oav	Existing Water Air Valve	- hlpb	Existing Highway Lighting Pull Box
°wmh	Existing Water Manhole	,	_
°inv	Existing Irrigation Valve Box		Existing Metal Guardrail
°wv	Existing Water Valve Box		New Metal Guardrail
<b>∞</b> <sub>WV</sub>	Adjusted Water Valve Box		
V V	Cuintina Indiantina Dull Day		Existing Quadguard End Treatment

STATE OF HAWAII HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

INTERSTATE ROUTE H-1 REHABILITATION SALT LAKE BOULEVARD TO AIRPORT VIADUCT FEDERAL-AID PROJECT NO. NH-H1-1(275)

> Date: October, 2021 SHEET No. 3 OF 3 SHEETS

| 11/19/21 | Added Note #54 DATE

ுi்.pb Existing Irrigation Pull Box

□wm Existing Water Meter

REVISION

SURVEY PLOTTE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ADD. 5