

GENERAL NOTES

1. The project includes the installation of composite epoxy resin fiber to the existing concrete columns; removal and replacement of existing connections between superstructure and abutment walls with elastomeric bearing pads at superstructure girders; Extension of abutment walls on each side of abutments and installation of micro piles and pile caps; construction of steel pipe seat extenders at existing hinges between existing piers; construction of a retrofit pier wall supported on micro piles and pile cap between piers.
2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work 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 107.06 - Contractor Duty Regarding Public Convenience; 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 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 facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for separately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify, the Oahu Transit Services, Inc., Road Supervision Office, 811 Middle Street, Honolulu, Hawaii 96819 (Telephone Number 848-4571), two (2) weeks prior to construction, informing them of location, scope of work, and dates of lane(s) closure(s) of Name of Highway. (For Oahu projects only. For other islands, check with your local bus company.)
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
8. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to and will not be paid for separately.
9. 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.
10. Existing drainage system will be 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 their respective bid items and will not be paid for separately.

GENERAL NOTES (cont)

11. Smooth riding connections shall be constructed at all limits of project, 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 their respective bid items and will not be paid for separately.
12. 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 and will not be paid for separately.
13. Removal and disposal of existing curb and gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to their respective bid items.
14. All saw cutting work shall be considered incidental to their respective bid items and will not be paid for separately.
15. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.
16. The top of the Plant Mix Glassphalt Concrete Base Course prior to placement of the new A.C. Pavement, Mix No. IV shall comply with the ten-foot straight edge requirement. The variation of the surface from a straight edge with two contacts with the surface, shall not exceed 3/16."
17. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes complying with ADAAG Section 4.3, and side streets and cross streets at all times. This work shall be considered incidental to their respective bid items and will not be paid for separately.
18. The Contractor shall provide and maintain a temporary pedestrian-safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved at least an inch of Asphalt Concrete Pavement, Mix No V or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.] This work shall be incidental to their respective bid items and will not be paid for separately.
19. The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to their respective bid items and will not be paid for separately.
20. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed 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 Oahu District Office at telephone no. 831-6712.

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

1. The Contractor shall make minor adjustments at intersections, side roads, drainage structures, etc., to fit field conditions.
2. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
3. Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.
4. Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered. All signs shall be replaced upon completion of the work.
5. All regulatory, guide, and construction signs and barricades shall have a high-intensity reflective background.
6. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
7. The Contractor shall install a flashing arrow signal as shown on the traffic control plans, unless otherwise authorized by the Engineer.
8. Sign spacing (L), taper lengths (T) and spacings of cones or delineators shall be as noted on the traffic control plans, or special provisions.
9. All traffic lanes shall be a minimum of 11 feet wide or as noted on the plans.
10. Unless otherwise noted or directed, construction warning signs shall be on square tube post and be promptly removed or covered whenever the message is not applicable or not in use.
11. The back of all signs used for traffic control shall be marked with the sign owner's name.
12. At the end of each day's work or as soon as the work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation.
13. Replace permanent pavement markings and traffic signs upon completion of each phase of work.
14. All work zone traffic control devices shall comply with the "Statewide Guidance For Work Zone Traffic Control Devices" Dated September 13, 2000 and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) as referenced in the 23 Code of Federal Regulations (CFR), Part 655, Subpart F. The MUTCD shall be recognized as the national standard for traffic control devices on all public roads open to public travel in accordance with 23 U.S.C. 109(d) and 402(a).
15. Cones or delineators shall be installed within tapers and tangents in accordance with the current edition of the MUTCD.
16. Conflicting striping shall be eradicated.
17. See Traffic Control plans for specific lane closure conditions.

| FED. ROAD DIST. NO. | STATE  | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAWAII | BR-H1-1(249)       | 2010        | 4         | 61           |

LEGEND

- e— Existing Electrical Line
- E— New Electrical Line
- °jp Existing Joint Pole
- °pp Existing Power Pole
- °emh Existing Electric Manhole
- EMH Adjusted Elec. MH Frame/Cover
- EMH New Electric Manhole
- t— Existing Telephone Line
- °tp Existing Telephone Pole
- °tmh Existing Telephone Manhole
- sc— Existing Signal Corps Line
- tv— Existing TV Cable
- s.i.c.— Existing Sandwich Isles Communication Line
- w—12— Existing 12" Water Line
- °wmh Existing Water Manhole
- °av Existing Water Air Valve
- °wv Existing Water Valve Box
- °wm Existing Water Meter
- °fh Existing Fire Hydrant
- s—12— Existing Sewer Line
- °smh Existing Sewer Manhole
- g—6— Existing 6" Gas Line
- °gv Existing Gas Valve Box
- °gmh Existing Gas Manhole
- °mon. Existing Monument
- d—24— Existing 24" Drain Line
- °sdmh Existing Storm Drain Manhole
- gdi Existing Grated Drop Inlet
- cb Existing Catch Basin
- sign Existing Traffic Sign
- hl Existing Highway Lighting Standard
- hlpb Existing Highway Lighting Pullbox
- °tsp Existing Traffic Signal Pole
- tspb Existing Traffic Signal Pullbox
- Existing Metal Guardrail
- Existing New Metal Guardrail

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY       |      |
| NOTED BY          |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| No.               |      |

CHAD M. MCDONALD  
LICENSED PROFESSIONAL ENGINEER  
No. 9793-C  
HAWAII, U.S.A.

This work was prepared by me or under my supervision

4/30/2012  
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

INTERSTATE ROUTE H-1  
Seismic Retrofit- Pali Interchange  
and Nuuanu Separation  
Federal Aid Project No. BR-H1-1(249)

Scale: As Noted Date: February 2010

SHEET No. C-1 OF 22 SHEETS