

**ALLOTMENT ADVICE**TO: The Honorable Brennon T. Morioka, DirectorADVICE NO. 09-0215

XXXXXXX

Department of Transportation

COMPTROLLER'S NO. \_\_\_\_\_

XXXXXXX

I have this day approved the following transfer and allotment from the Highways Revenue Bond fund appropriation authorized by Part IV, Sections 64 and 119 of Act 91, SLH 1999 as amended by Act 281, SLH 2000 for the purpose indicated:

| TC  | F | YR | APP | D  | ALLOT<br>CAT | SOURCE/<br>OBJECT | ITEM   | TITLE AND PURPOSE OF ALLOTMENT                                                            | M<br>O<br>F | AMOUNT     |    |
|-----|---|----|-----|----|--------------|-------------------|--------|-------------------------------------------------------------------------------------------|-------------|------------|----|
| XXX | X | XX | XXX | XX | XX           | XXXX              | XXXXXX | (20 x)                                                                                    | X           | XXXXXXXXXX | XX |
| 473 | B | 99 | 463 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2 and Moanalua Freeway, Oahu (Lump Sum)      | E           | 741,970    | 00 |
| 474 | B | 99 | 464 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Construction) | E           | 741,970    | 00 |
| 531 | B | 99 | 464 | D  | 20           |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Construction) | E           | 346,000    | 00 |
| 473 | B | 99 | 463 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2 and Moanalua Freeway, Oahu (Lump Sum)      | B           | 1,000      | 00 |
| 474 | B | 99 | 465 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Equipment)    | E           | 1,000      | 00 |

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|-----|---|----|-----|----|--------------|-------------------|--------|-------------------------------------------------------------------------------------------|-------------|-------------|----|
| xxx | x | xx | xxx | xx | xx           | xxxx              | xxxxxx | (20 x)                                                                                    | x           | xxxxxxxxxxx | xx |
| 473 | B | 99 | 464 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Construction) | E           | 395,970     | 00 |
| 474 | B | 99 | 465 | D  |              |                   | C-52   | Freeway Management System; Interstate H-1, H-2, and Moanalua Freeway, Oahu (Equipment)    | E           | 395,970     | 00 |
|     |   |    |     |    |              |                   |        | Note: Transfer authorized by Sec. 119 of Act 91/99.                                       |             |             |    |
| 531 | B | 99 | 465 | D  | 20           |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Equipment)    | E           | 396,970     | 00 |
| 473 | B | 00 | 456 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2 and Moanalua Freeway, Oahu (Lump Sum)      | E           | 89,030      | 00 |
| 474 | B | 00 | 457 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Construction) | E           | 89,030      | 00 |

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|-----|---|----|-----|----|--------------|-------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|----|
| XXX | X | XX | XXX | XX | XX           | XXXX              | XXXXXX | (20 x)                                                                                                                                            | X           | XXXXXXXXXXXX | XX |
| 473 | B | 00 | 456 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2 and Moanalua Freeway, Oahu (Lump Sum)                                                              | E           | 1,000        | 00 |
| 474 | B | 00 | 458 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Equipment)                                                            | E           | 1,000        | 00 |
| 473 | B | 00 | 457 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Construction)                                                         | E           | 89,030       | 00 |
| 474 | B | 00 | 458 | D  |              |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Equipment)                                                            | E           | 89,030       | 00 |
|     |   |    |     |    |              |                   |        | Note: Transfer authorized by Sec. 119 of Act 91/99.                                                                                               |             |              |    |
| 531 | B | 00 | 458 | D  | 20           |                   | C-52   | Freeway Management System, Interstate H-1, H-2, and Moanalua Freeway, Oahu (Equipment)                                                            | E           | 90,030       | 00 |
|     |   |    |     |    |              |                   |        | Construction and equipment for a Freeway Management system including intelligent transportation systems technologies and interagency coordination |             |              |    |

STATE OF HAWAII  
**ALLOTMENT ADVICE**

Page 4 of 4

TO: The Honorable Brennon T. Morioka, Director

ADVICE NO. 09-0215

xxxxxxx

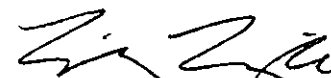
Department of Transportation

COMPTROLLER'S NO. \_\_\_\_\_

xxxxxxx

| TC  | F | YR | APP | D  | ALLOT<br>CAT | SOURCE/<br>OBJECT | ITEM   | TITLE AND PURPOSE OF ALLOTMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | M<br>O<br>F | AMOUNT           |
|-----|---|----|-----|----|--------------|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|
| xxx | x | xx | xxx | xx | xx           | xxxx              | xxxxxx | (20 x)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | x           | xxxxxxxxxxxxx xx |
|     |   |    |     |    |              |                   |        | <p>to monitor and manage traffic operations. This project is deemed necessary to qualify for federal aid financing and/or reimbursement.</p> <p>Purpose: To finance construction and equipment for Freeway Management System, Phase 1B, Oahu.<br/>Highway Project Nos. IM-0300(113), IM-0300(114), and IM-0300(115).</p> <p>Total allotment - \$833,000.00</p> <p>Statewide Project No. S239</p> <p>Hwy. Proj. # IM-0300(113), IM-0300(114), and IM-0300(115)</p> <p>Note: The expenditure of funds from this allotment will be subject to the availability of funds from either the issuance of highway revenue bonds or by temporary advancement of funds as authorized by the Director of Finance prior to the sale of such bonds.</p> |             |                  |

  
DIRECTOR OF BUDGET AND FINANCE

  
GOVERNOR, STATE OF HAWAII

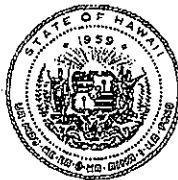
DATE: December 16, 2008

STATE ACCOUNTING FORM A-15  
DECEMBER 1, 1990 (REVISED)

LINDA LINGLE  
GOVERNOR

DIRECTOR'S OFFICE  
DEPT. OF  
TRANSPORTATION

2008 DEC 24 A 9:49



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
869 PUNCHBOWL STREET  
HONOLULU, HAWAII 96813-5097

BRENNON T. MORIOKA  
DIRECTOR

Deputy Directors  
MICHAEL D. FORMBY  
FRANCIS PAUL KEENO  
BRIAN H. SEKIGUCHI  
JIRO A. SUMADA

IN REPLY REFER TO:

HWY-S  
2.9786

November 24, 2008

TO: THE HONORABLE LINDA LINGLE  
GOVERNOR OF HAWAII

THROUGH: THE HONORABLE GEORGINA KAWAMURA  
DIRECTOR OF FINANCE

FROM: BRENNON T. MORIOKA, Ph.D., P.E.  
DIRECTOR OF TRANSPORTATION

SUBJECT: REQUEST PERMISSION TO ADVERTISE FOR BIDS, AWARD THE  
CONSTRUCTION CONTRACT, AND FOR THE RELEASE OF EQUIPMENT  
AND CONSTRUCTION FUNDS FOR FREEWAY MANAGEMENT SYSTEM,  
PHASE 1B, TRAVELER INFORMATION SYSTEM, UNITS 1, 2, AND 3,  
PROJECT NOS. IM-0300(113), IM-0300(114), AND IM-0300(115), AS  
AUTHORIZED BY ACT 91, SLH 1999, AS AMENDED BY ACT 281,  
SLH 2000, ITEM C-52.

Permission is requested to advertise for bids, award the construction contract, and for the release of \$833,000 (\$487,000 for equipment, \$346,000 for construction) in highway revenue bond funds for the subject project.

1. This request consists of: An allotment of \$833,000 in equipment and construction funds for a Freeway Management System, Traveler Information System for the H-1, H-2 and H-201 Freeways. This project is deemed necessary to qualify for Federal aid financing and/or reimbursement.

This project is Priority No. 61 in the approved Fiscal Year 2009 Highways Division CIP implementation plan.

COPY

2. Additional information or comments: Motorists on Oahu's freeway system currently experience high levels of congestion, especially during traffic incidents. The unexpected delays could be avoided if given the proper information to make informed decisions regarding alternate travel routes and patterns. The situation is expected to worsen in the future, resulting in increased fuel costs, pollution and driver frustration. In consideration of environmental and cost factors, other methods of dealing with traffic congestion must also be developed to maximize our existing infrastructure, in addition to building more roads.

One proven method of dealing with congestion is to utilize Intelligent Transportation Systems (ITS), which is the application of management strategies and technologies to maximize roadway efficiency and improve safety. A component of ITS is a Freeway Management System (FMS) which includes the deployment of CCTV cameras, vehicle detectors, variable message signs, dissemination of traveler information, Freeway Service Patrols, Traffic Operation Center enhancement and other traffic management strategies.

This project is intended to initiate deployment of a Traveler Information System (TIS), which will lay the foundation for future enhancements including a 511 system, a national effort with the intent to provide easy, valuable, and timely traveler information to the public.

This request consists of 3 projects (2 for equipment procurement, 1 for equipment installation) as follows:

- TIS, UNIT 1: Freeway Data Collection System  
IM-0300(113) consists of procuring spot speed sensors which will provide HDOT with vehicle speeds and can also be used in determining travel times.
- TIS, UNIT 2: ITS Technology Procurement  
IM-0300(114) consists of procuring other necessary equipment to support this effort such as license plate readers (also to be used in obtaining travel times) and replacement variable message signs\* to disseminate information to the motorist.
- TIS, UNIT 3: ITS Equipment Installation  
IM-0300(115) will install the spot speed sensors and license plate readers procured under the first two projects at various locations along the H-1, H-2 and H-201 Freeways. These devices will be mounted on existing highway structures such as street lights, sign structures, and overpasses. Power will be supplied through various sources including nearby traffic signals and solar panels. Communications will be through wireless technologies.

\*Note: Variable message signs will be installed in the near future under a separate installation project when additional funds become available.

Prior Request:

|         | <u>Rev Bond</u> | <u>Federal</u> | <u>Total</u> |
|---------|-----------------|----------------|--------------|
| Design: | \$345,000       | \$1,380,000    | \$1,725,000  |

This Request:

|                  | <u>Rev Bond</u> | <u>Federal</u> | <u>Total</u> |
|------------------|-----------------|----------------|--------------|
| Equipment:       |                 |                |              |
| TIS, Unit 1:     | \$231,000       | \$ 924,000     | \$1,155,000  |
| TIS, Unit 2:     | 252,000         | 1,008,000      | 1,260,000    |
| Staff Non-Labor: | 4,000           | 16,000         | 20,000       |

Construction: TIS, Unit 3

|                  |           |             |             |
|------------------|-----------|-------------|-------------|
| Contract:        | 280,000   | 1,120,000   | 1,400,000   |
| Contingency:     | 14,000    | 56,000      | 70,000      |
| Post Design:     | 50,000    | 200,000     | 250,000     |
| Staff Non-Labor: | 2,000     | 8,000       | 10,000      |
| Total:           | \$833,000 | \$3,332,000 | \$4,165,000 |

If the low bid is within the basic bid estimate and available appropriation, permission is requested to award the construction contract. If the lowest bid is higher than the basic bid estimate and available appropriation, we will not award the contract and will notify you immediately to recommend suitable funding alternatives.

The Honorable Linda Lingle  
Page 4  
November 24, 2008

HWY-S  
2.9786

3. The Highways Administrator certifies that this project meets all highways design requirements and that adequate funds are currently appropriated for this request.

Department contact: Leigh Pascua at 587-2597.

Enclosures

RECOMMEND:

☒ APPROVAL

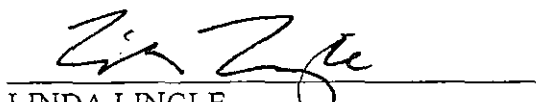
☐ DISAPPROVAL

  
GEORGINA KAWAMURA  
Director of Finance

12/17/08  
DATE

☒ APPROVED

☐ DISAPPROVED

  
LINDA LINGLE  
Governor, State of Hawaii

12/17/08  
DATE

## C.I.P. PROJECT SUMMARY OF PROPOSED EXPENDITURES

PROJECT Freeway Management System, Phase 1B

TITLE: Interstate H-1, H-2 and H-201 Freeway

Project Nos. IM-0300(113), IM-0300(114), IM-0300(115)

DATE:

11/14/2008

DEPARTMENTAL PRIORITY NO

61

CAPITAL PROJECT NO.

S239

| SOURCE OF FUNDS (ACT/ITEM, ACCOUNT NUMBER, FEDERAL, COUNTY, PRIVATE) |             |                 |                                                                        |  |  |           |  |           |               |
|----------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------------------------|--|--|-----------|--|-----------|---------------|
| COST ELEMENTS                                                        | 91/99, C-52 | 281/00, C-52    |                                                                        |  |  | FEDERAL   |  | TOTAL     | DATE          |
| LAND ACQUISITION                                                     |             |                 |                                                                        |  |  |           |  |           | LAND          |
| Land                                                                 |             |                 |                                                                        |  |  |           |  |           | Begin:        |
| Consultant Services                                                  |             |                 |                                                                        |  |  |           |  |           | End:          |
| Staff Services                                                       |             |                 |                                                                        |  |  |           |  |           |               |
| Plans                                                                |             |                 |                                                                        |  |  |           |  |           | PLANS         |
| Consultant Services                                                  |             |                 |                                                                        |  |  |           |  |           | Begin:        |
| Staff Services                                                       |             |                 |                                                                        |  |  |           |  |           | End:          |
| Design                                                               | 345,000     |                 |                                                                        |  |  | 1,380,000 |  | 1,725,000 | DESIGN        |
| Consultant Services                                                  | 344,000     |                 |                                                                        |  |  | 1,376,000 |  | 1,720,000 | Begin: Nov-07 |
| Staff Services                                                       | 1,000       |                 |                                                                        |  |  | 4,000     |  | 5,000     | End: Feb-09   |
| Construction/Equipment                                               | 742,970     | 90,030          |                                                                        |  |  | 3,332,000 |  | 4,165,000 | CONSTRUCTION  |
| Basic Bid                                                            | 672,970     | 90,030          |                                                                        |  |  | 3,052,000 |  | 3,815,000 | Award: Feb-09 |
| Alternates                                                           |             |                 |                                                                        |  |  |           |  |           |               |
| Contingency                                                          | 14,000      |                 |                                                                        |  |  | 56,000    |  | 70,000    |               |
| Consultant Services                                                  | 50,000      |                 |                                                                        |  |  | 200,000   |  | 250,000   | Begin: Apr-09 |
| Staff Services                                                       | 6,000       |                 |                                                                        |  |  | 24,000    |  | 30,000    | End: Apr-12   |
| Other Costs                                                          |             |                 |                                                                        |  |  |           |  |           |               |
| WORKS OF ART                                                         |             |                 |                                                                        |  |  |           |  |           |               |
|                                                                      |             |                 |                                                                        |  |  |           |  |           |               |
|                                                                      |             |                 |                                                                        |  |  |           |  |           |               |
| TOTAL PROJECT COST                                                   | 1,087,970   | 90,030          |                                                                        |  |  | 4,712,000 |  | 5,890,000 |               |
| ALLOTTED TO DATE*                                                    | 0           | 0               |                                                                        |  |  |           |  | 0         |               |
| ALLOTMENT REQUEST                                                    | 1,087,970   | 90,030          |                                                                        |  |  |           |  | 1,178,000 |               |
| BALANCE                                                              | 412,030     | 1,409,970       |                                                                        |  |  |           |  | 1,822,000 |               |
| FUNDS APPROPRIATED                                                   | 1,500,000   | 1,500,000       |                                                                        |  |  |           |  | 3,000,000 |               |
| *(AA# & DATE)                                                        |             | Completion Date | COMMENTS: Appropriation funds multiple projects                        |  |  |           |  |           |               |
| PLANS:                                                               |             |                 | Additional equipment funds transferred from construction cost element. |  |  |           |  |           |               |
| LAND:                                                                |             |                 | Design project develops multiple packages for advertising.             |  |  |           |  |           |               |
| DESIGN: 08-0505, 5/23/08                                             |             |                 |                                                                        |  |  |           |  |           |               |
| CONST:                                                               |             |                 |                                                                        |  |  |           |  |           |               |
| EQUIP:                                                               |             |                 |                                                                        |  |  |           |  |           |               |

CIP FORM 2 (Revised 5/97)

TABLE R (5/97)

## CAPITAL PROJECT INFORMATION AND JUSTIFICATION SHEET

## SCOPE CODES

|                   |                 |        |        |          |          |          |          |       |                                                                                            |                |
|-------------------|-----------------|--------|--------|----------|----------|----------|----------|-------|--------------------------------------------------------------------------------------------|----------------|
| EXPENDING AGENCY: |                 |        | ISLAND | SEN DIST | REP DIST | PRIORITY | PREV     | PROJ. | SCOPE CODES<br>N - NEW<br>I - RENOVATION<br>A - ADDITION<br>R - REPLACEMENT<br>O - ONGOING | DATE<br>Oct-06 |
| USER PROGRAM ID   | CAPITAL PROJECT |        | OAHU   | Various  | Various  | NO.      | PRIO NO. | SCOPE |                                                                                            |                |
| DEPT              | NUMBER          | NUMBER |        |          |          |          |          |       |                                                                                            |                |
| TRN               | 501             | S239   |        |          |          | 61       |          | A     |                                                                                            |                |

## PROJECT TITLE:

FREEWAY MANAGEMENT SYSTEM, OAHU

## PROJECT DESCRIPTION:

Design for a Freeway Management System, including intelligent transportation systems technologies and interagency coordination to monitor and manage traffic operations. This project is deemed necessary to qualify for federal aid financing and/or reimbursement.

## TOTAL ESTIMATED PROJECT COST (In Thousands of Dollars)

| ELEMENT   | PRIOR APPROPRIATIONS (Including MOF) |                |                |                |                |                | PROPRIATIONS (including MOF) |         |             | TOTAL PROJECT COST |
|-----------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|------------------------------|---------|-------------|--------------------|
|           | ACT/YR, ITEM NO                      | CT/YR, ITEM NO | CT/YR, ITEM NO | CT/YR, ITEM NO | CT/YR, ITEM NO | CT/YR, ITEM NO | 2008 FY                      | 2009 FY | FUTURE YEAR |                    |
| PLANS     |                                      |                |                |                |                |                |                              |         |             | 0                  |
| LAND      |                                      |                |                |                |                |                |                              |         |             | 0                  |
| DESIGN    |                                      |                | 5,000          |                |                |                | 750                          |         |             | 5,750              |
| CONSTRUCT |                                      |                |                | 4,000          |                | 7,499          | 7,499                        |         |             | 18,998             |
| EQUIPMENT |                                      |                |                |                |                | 1              | 1                            |         |             | 2                  |
|           | 0                                    | 0              | 5,000          | 4,000          | 7,500          | 7,500          | 750                          | 0       | 0           | 24,750             |
|           |                                      |                | 580 E          | 800 E          | 1,500 E        | 1,500 E        | 150 E                        |         |             |                    |
|           |                                      |                | 4,420 N        | 3,200 N        | 6,000 N        | 6,000 N        | 600 N                        |         |             |                    |

## PROJECT INFORMATION AND JUSTIFICATION (use back if necessary):

## a. Total Scope of Project.

The Freeway Management System (FMS) will make the existing freeways more efficient, safe and mobile by using intelligent transportation systems (ITS) technologies. A control center will have to be constructed or an existing facility will have to be renovated to house the various ITS technologies employed as well as staff to operate this facility.

## b. Identification of Need and Evaluation of Existing Situation.

With the existing freeway system congested, the project is a means to increase roadway efficiency, relieve congestion and improve emergency services by effectively employing intelligent transportation systems technologies, manage traffic operations, disseminate traveler information, clear incidents efficiently and increase the usage of buses and carpools.

## c. Alternatives Considered and Impact if Project is Deferred.

The do nothing alternative would result in the congestion and possible safety problems as well as providing substandard service to the public. Widening may be cost prohibitive because of limited right-of-way and impacts to existing residential developments.

## d. Discuss What Improvements Will Take Place When Project Completed (including benefits to be derived and/or deficiencies this project intends to correct).

FMS will inform motorist about roadway traffic conditions and, therefore, allow the motorist to select alternate routes in case of delays. With the aid of FMS, engineers will have the means to modify traffic controls (signs & traffic signals) to accommodate traffic or emergency situations. Emergency response agencies (HPD, HFD, EMS, etc.) will be better informed before responding to an accident.

## e. Impact Upon Future Operating Requirements (show initial and ongoing funding requirements by cost element, including position count, means of financing, fiscal year).

FMS requires an operations staff and maintenance and operating cost for the control center and FMS solutions.

## f. Additional Information:

This project is included in the Statewide Transportation Improvement Program (STIP).