

K85/B20



BILLS ENGINEERING INC.
Civil/Environmental Engineering

1124 Fort Street Mall, Suite 200
Honolulu, Hawai'i 96813-2715
Telephone: 808.792.2022 Fax: 808.792.2033
info@BillsEngineering.com - www.BillsEngineering.com

RECEIVED
HAWAII HOUSING FINANCE
DEVELOPMENT CORP

2012 FEB -7 12:54

TRANSMITTAL

DATE: February 2, 2012

Job No. 258-01

TO: Leonell A. Domingo
Hawaii Housing Finance and Development Corporation
677 Queen St., Suite 300
Honolulu, Hawai'i 96813

SUBJECT: Villages of Kapolei - Northwest Corner Site Access
Kapolei, O'ahu, Hawai'i
TMK: (1)9-01-016: 035 (por.)
Contract No.: DEV 08-05

Transmitting the following: Attached Under separate cover

Via: Courier Pick-up U.S. Mail Hand-carry

# of Copies	Date	Sheet No.	Description
1	03/19/10		Attachment 1-Transmittal Letter Only
1	03/19/10		Attachment 2-Submittal Package to SDOT
1	12/06/10		Attachment 3-Letter Review Comments from SDOT

Action Requested:

Project Status As requested

REMARKS: Hi Leonell,

In reference to:

Attachment – S1, Item A.1. of Supplemental Contract No. 2 to Contract No. DEV 08-05 (DAGS #56953): We developed two (2) conceptual layouts for your consideration. These concepts allow single right turns from the subject property onto Fort Barrette Road (FBR) and into the property from FBR.

Parsons Brinckerhoff (PB) has provided us with their topographic survey and CADD files for the future widening improvements of FBR which we used as our basis for designing the driveway connections onto FBR. These conceptual layouts have been reviewed and approved by our

Traffic Engineer, Julian Ng, for compliance with the recommendations set forth on Traffic Assessment Report dated June 2008 for the driveway connections onto Fort Barrette Road (FBR) and with all the applicable Federal and State Standards.

We have provided one concept showing the existing condition of the FBR alignment and the second concept being the future condition alignment of FBR currently being designed by (PB). The conceptual layouts plans and design descriptions have been transmitted to you dated March 3, 2010 (Attachment 1). No comments were made and we then proceeded with SDOT submittal per item A.2.

Item A.2. of Supplemental Contract No. 2: The conceptual layout including design descriptions were submitted to Mr. Ken Tatsuguchi, Head Planning Engineer, Highway Division, SDOT, dated March 19, 2010 for review (Attachment 2). The review proceedings lasted 9 months. The letter comments were issued together with additional comments provided directly on the conceptual plans on December 6, 2010 (Attachment 3). We haven't responded to the letter comments at this time and no changes were made to the conceptual layouts as well because of concern in regards to letter comments item #5 which stated that "Recommended lane widths for all lanes of Fort Barrette Road shall be 12 feet."

This contradicts the overall design intent of PB's design that includes the widening improvements for FBR. SDOT is reviewing PB pre-final plans at this time and the outcome of the review will dictate any necessary design adjustments or revisions for both projects. We informed Gerald Andrade (PB) of the comments made to our plans and he told us that "the right-of-way cannot accommodate lanes wider than 11 feet because at the intersection at Kamaaha as well as Kapolei Parkway they're at full width build out where the back of sidewalks are against ROW line. There's no way for the lanes to be any wider than 11 feet, which is why they've always shown an 11 ft. lane." In addition, Mr. Andrade mentioned that construction funding for the FBR widening improvement project will likely be in the FY 2015 timeframe at the earliest, this will impact the timing for the driveway design project as well.

Item A.3. of Supplemental Contract No.2: We would be happy to meet with you to present and discuss the conceptual layouts at your convenience.

Item A.4. of Supplemental Contract No.2: At this time no revisions have been made to the conceptual layout that incorporates SDOT review comments for reasons stated under Item A.2.

Please don't hesitate to contact our office if you have any questions.

Very truly yours,



David B. Bills, President

DBB/cj
Enclosures



BILLS ENGINEERING INC.
 Civil/Environmental Engineering
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 Honolulu, Hawai'i 96813-2715
 Telephone: 808.792.2022 Fax: 808.792.2033
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www.BillsEngineering.com

TRANSMITTAL

DATE: March 3, 2010

Job No. 258-01

TO: Leonell A. Domingo
 Hawaii Housing Finance and Development Corporation
 677 Queen St., Suite 300
 Honolulu, Hawai'i 96813

SUBJECT: Villages of Kapolei - Northwest Corner Site Access
 Kapolei, O'ahu, Hawai'i
 TMK: (1)9-01-016: 035 (por.)
 Contract No.: DEV 08-05

Transmitting the following: Attached Under separate cover
 Via: Courier Pick-up U.S. Mail Hand-carry

# of Copies	Date	Sheet No.	Description
1	02/10	Sheets 1-4	Conceptual Layout Plans
1	02/10		Description of Conceptual Layout Plans

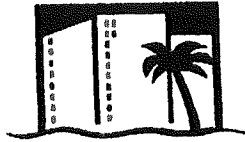
Action Requested:

For review and comment As requested
 For your execution For your use/approval

REMARKS:



 DAVID B. BILLS



BILLS ENGINEERING INC.
 Civil/Environmental Engineering
 1124 Fort Street Mall, Suite 200
 Honolulu, Hawai'i 96813-2715
 Telephone: 808.792.2022 Fax: 808.792.2033
 Email: info@BillsEngineering.com
www.BillsEngineering.com

TRANSMITTAL

DATE: March 19, 2010

Job No. 258-01

TO: Mr. Ken Tatsuguchi
 Systems Planning Engineer, Highways Division
 Department of Transportation, State of Hawai'i
 869 Punchbowl Street
 Honolulu, Hawai'i 96813-5097

SUBJECT: Villages of Kapolei - Northwest Corner Site Access
 Kapolei, O'ahu, Hawai'i
 TMK: (1)9-01-016: 035 (por.)
 Contract No.: DEV 08-05

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# of Copies	Date	Sheet No.	Description
1	02/10	Sheets 1-4	Conceptual Layout Plans
1	02/10		Description of Conceptual Layout Plans

Action Requested:

For review and comment As requested

REMARKS: This submittal is in response to the letter from Brennon T. Morioka, Director (SDOT) dated March 6, 2009, regarding the proposed access driveway connection onto Fort Barrette Road for the development of the Northwest Corner of Villages of Kapolei by HHFDC.

In accordance with Director Morioka's request, we have developed two (2) conceptual layouts for your consideration. These concepts allow single right turns from the subject property onto Fort Barrette Road (FBR) and into the property from FBR. We have provided one concept showing the existing condition of the FBR alignment and, the future condition alignment of FBR currently being designed by Parsons Brinckerhoff ("PB"). PB has provided us with their topographic survey and the CADD file for the future widening improvements of FBR which we used as our basis for design of the driveway connections onto FBR. These two (2) conceptual layouts have been reviewed by our Traffic Engineer, Julian Ng for compliance with the Traffic Assessment Report and with all the applicable Federal and State Standards. We are requesting your review and comment on the proposed driveway layouts. Thank you.


 DAVID B. BILLS

FAXED
 3/19/10

Cc: Leonell A. Domingo, HHFDC (Transmittal only)

Date	03/29/10	# of pages	1
From	Harold R. Parsons	To	Leonell A. Domingo
Co	Bills Engineering	Co. Dept.	HHFDC
Phone #	792-2033	Phone #	
Fax #		Fax #	527 0000

Transmission Report

te/Time
cal ID 1

03-24-2010
808-792-2033

01:29:58 p.m.

Transmit Header Text
Local Name 1

BILLS ENGINEERING INC.

This document : Confirmed
(reduced sample and details below)
Document size : 8.5"x11"



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Civil/Environmental Engineering
1124 Fort Street Mall, Suite 200
Honolulu, Hawai'i 96813-2716
Telephone: 808.792.2022 Fax: 808.792.2033
Email: info@billsengineering.com
www.billsengineering.com

TRANSMITTAL

DATE: March 19, 2010
TO: Mr. Ken Tatsuguchi
Systems Planning Engineer, Highways Division
Department of Transportation, State of Hawai'i
888 Punchbowl Street
Honolulu, Hawai'i 96813-5097

Job No. 288-01

SUBJECT: Villages of Kapolei - Northwest Corner Site Access
Kapolei, O'ahu, Hawai'i
TMK: (1)0-01-018:035 (por.)
Contract No.: DEV 08-05

Transmitting the following: Attached Under separate cover

Via: Courier Pick-up U.S. Mail Hand-carry

# of Copies	Date	Sheet No.	Description
1	02/10	Sheets 1-4	Conceptual Layout Plans
1	02/10		Description of Conceptual Layout Plans

Action Requested:

For review and comment As requested

REMARKS: This submittal is in response to the letter from Brennon T. Morioka, Director (BDOT) dated March 8, 2009, regarding the proposed access driveway connection onto Fort Barrette Road for the development of the Northwest Corner of Villages of Kapolei by HHFDC. In accordance with Director Morioka's request, we have developed two (2) conceptual layouts for your consideration. These concepts allow single right turns from the subject property onto Fort Barrette Road (FBR) and into the property from FBR. We have provided one concept showing the existing condition of the FBR alignment and, the future condition alignment of FBR currently being designed by Parsons Brinckerhoff ("PB"). PB has provided us with their topographic survey and the CADD file for the future widening improvements of FBR which we used as our basis for design of the driveway connections onto FBR. These two (2) conceptual layouts have been reviewed by our Traffic Engineer, Julian Ng for compliance with the Traffic Assessment Report and with all the applicable Federal and State Standards. We are requesting your review and comment on the proposed driveway layouts. Thank you.

DAVID B. BILLS

Co: Leonel A. Domingo, HHFDC (Transmittal only)

Project/Fax No	7871
To	Leonel A. Domingo
From	HHFDC
CC	Bills Engineering
Phone	792-2022
Fax	792-2033

Total Pages Scanned : 1

Total Pages Confirmed : 1

Attachment 2

No.	Job	Remote Station	Start Time	Duration	Pages	Line	Mode	Job Type	Results
001	012	808 587 0600	01:29:00 p.m. 03-24-2010	00:00:28	1/1	1	EC	HS	CP24000

Abbreviations:
HS: Host send
HR: Host receive

PL: Polled local

MD: Mailbox

MA LINGLE
GOVERNOR



RECEIVED
HAWAII HOUSING FINANCE
DEVELOPMENT CORP

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-PS
2.0333

March 6, 2009

Ms. Karen Seddon
Executive Director
Hawaii Housing Finance and Development Corporation
677 Queen Street, Suite 300
Honolulu, Hawaii 96813

Dear Ms. Seddon:

**Subject: Traffic Assessment for Development of Northwest Corner of Villages of Kapolei
Oahu, Ewa District, Kapolei, TMK: (1) 9-10-160:035**

We are in receipt of your December 22, 2008 letter (08:DEV/0255) requesting reconsideration to allow right-turns out from the subject property on to Fort Barrette Road. We have reviewed the supplemental information provided but are not entirely in agreement with the analyses and findings as we still have concerns regarding potential project generated traffic impact to Fort Barrette Road due to its close proximity to the already congested Farrington Highway/Makakilo Drive intersection. We are, however, willing to reconsider allowing a single right-turn egress from the subject property onto Fort Barrette Road due to Hawaii Housing Finance and Development Corporation's important mission of providing affordable housing for the State of Hawaii.

Please provide a conceptual layout of the proposed improvements that complies with all applicable Federal and State standards. This proposed development must be coordinated with our pending Fort Barrette Road Widening project, and the applicant must also pay for their pro rata share of infrastructure improvements to the surrounding roadway system.

If you have any questions, please contact Robert Miyasaki, Systems Planning Engineer, Highways Division, at 587-6336.

Very truly yours,

BRENNON T. MORIOKA, Ph.D., P.E.
Director of Transportation

**VILLAGES OF KAPOLEI NORTHWEST CORNER PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETE ROAD**

Two conceptual layouts were developed for the right turn in and right turn out driveway connection onto Fort Barrette Road for the 26.6 acre parcel property in the Northwest Corner Kapolei Village area, south of Farrington Highway and between Fort Barrette Road and Kealanani Avenue.

Conceptual Layout 1 shows the existing condition of Fort Barrette Road where the proposed driveway will be connected. The driveway connection point is controlled by the following:

1. The existing deceleration length northeast bound onto Farrington Highway;
2. The existing bikeway path that will be extended with two (2) 40 ft transition lengths;
3. The total bikeway path which will be lengthened by approximately 1,150 LF and end at station 50+00 where the pavement transition begins;
4. A well-defined taper length of 110 ft (10:1) at station 60+00 for the existing through lane adjacent to the bikeway path northbound onto Makakilo Drive;
5. Acceleration and taper lengths of 160' and 110', respectively, will be provided to allow right turn traffic to accelerate and merge with the northbound traffic;
6. A well-defined curbed island to prevent left turns onto southbound lanes of the proposed driveway from Farrington Highway or left turns out of the proposed driveway onto southbound lanes of Fort Barrette Road;
7. A minimum turning radius of 50' for SU-30 vehicles; and,
8. Deceleration and taper lengths of 220' and 110', respectively, for smooth transition right turns into the proposed driveway (see sheets 1 and 2).

Conceptual Layout 2 shows the future widening of Fort Barrette Road by Parsons Brinckerhoff. Under this proposed widening project the following improvements will be:

1. The existing two-lane road will be increased to four (4) lanes (2 northbound and 2 southbound) with a lane width of 11', raised pavement markers and signs for lane delineations;
2. A 4' wide bikeway path on both sides of the road
3. Curb and gutter on both sides of the road to convey runoff flows towards drainage systems; and,
4. A 6' wide sidewalk an integral part of roadway design.

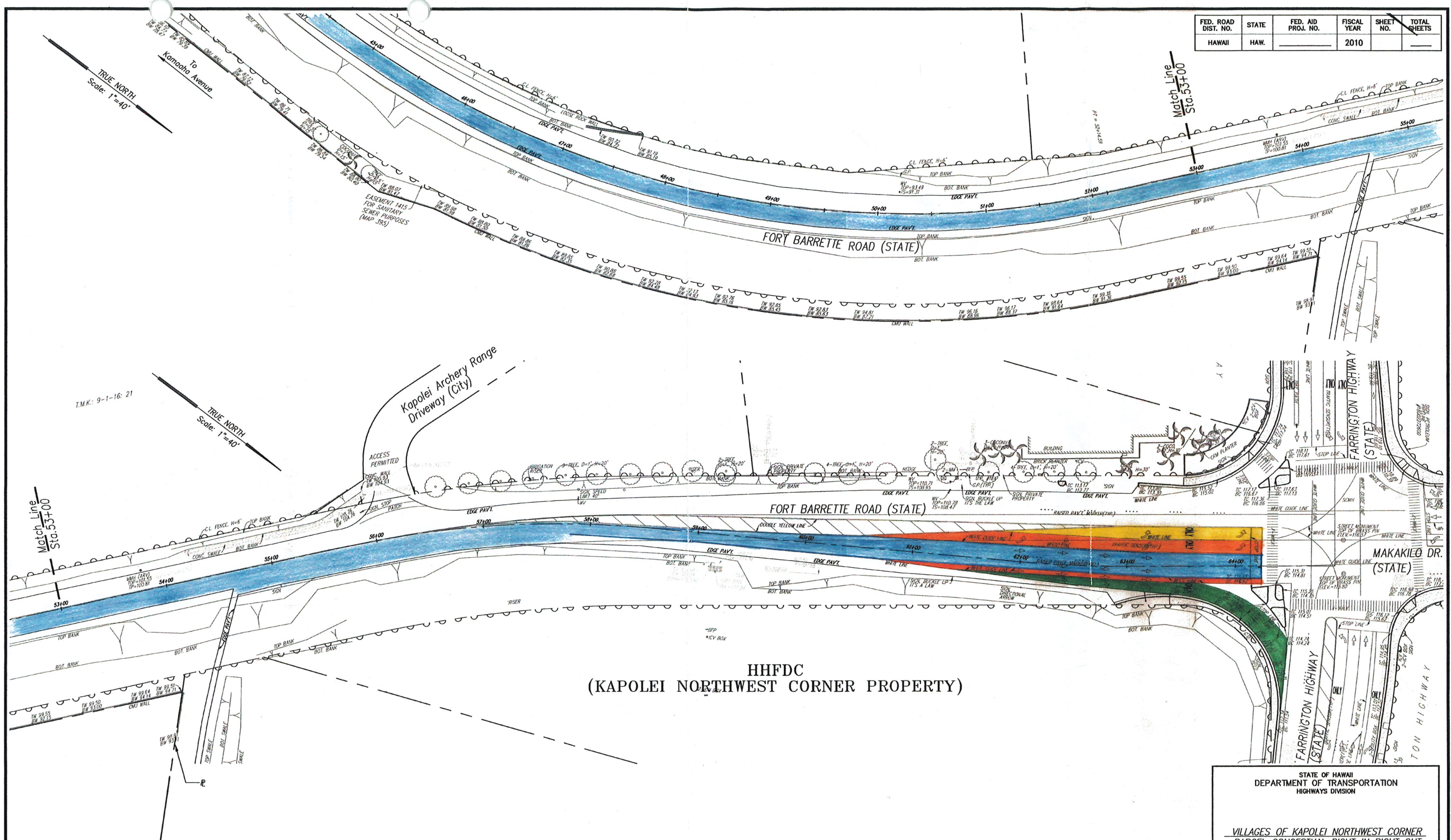
The proposed driveway connection point onto the proposed newly widened Fort Barrette Road is controlled by the following:

1. Deceleration and taper lengths of 200' and 100', respectively, followed by a 55' transition length northeast bound onto Farrington Highway and established by Parsons;
2. Acceleration and taper lengths of 160' and 110', respectively, are provided to be consistent with the design intent outlined under the existing condition (Conceptual Layout 1); and,

3. A well-defined curbed island to prevent left turns onto southbound lanes of the proposed driveway from Farrington Highway or left turns out of the proposed driveway onto southbound lanes of Fort Barrette Road;
4. A minimum turning radius of 50' for SU-30 vehicles; and,
5. Deceleration and taper lengths of 220' and 110', respectively, for smooth transition right turns into the proposed driveway (see sheets 3 and 4).

The basis of design for both proposed driveway connections (under existing and future conditions) is in compliance with all applicable Federal and State standards.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2010		



EXISTING CONDITION AT FORT BARRETTE ROAD

Scale: 1"=40'

DESIGNED BY	DATE
CHECKED BY	
APPROVED BY	
PROJECT NO.	
SHEET NO.	

SIGNATURE
 APRIL 30, 2010
 EXPIRATION DATE OF LICENSE
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

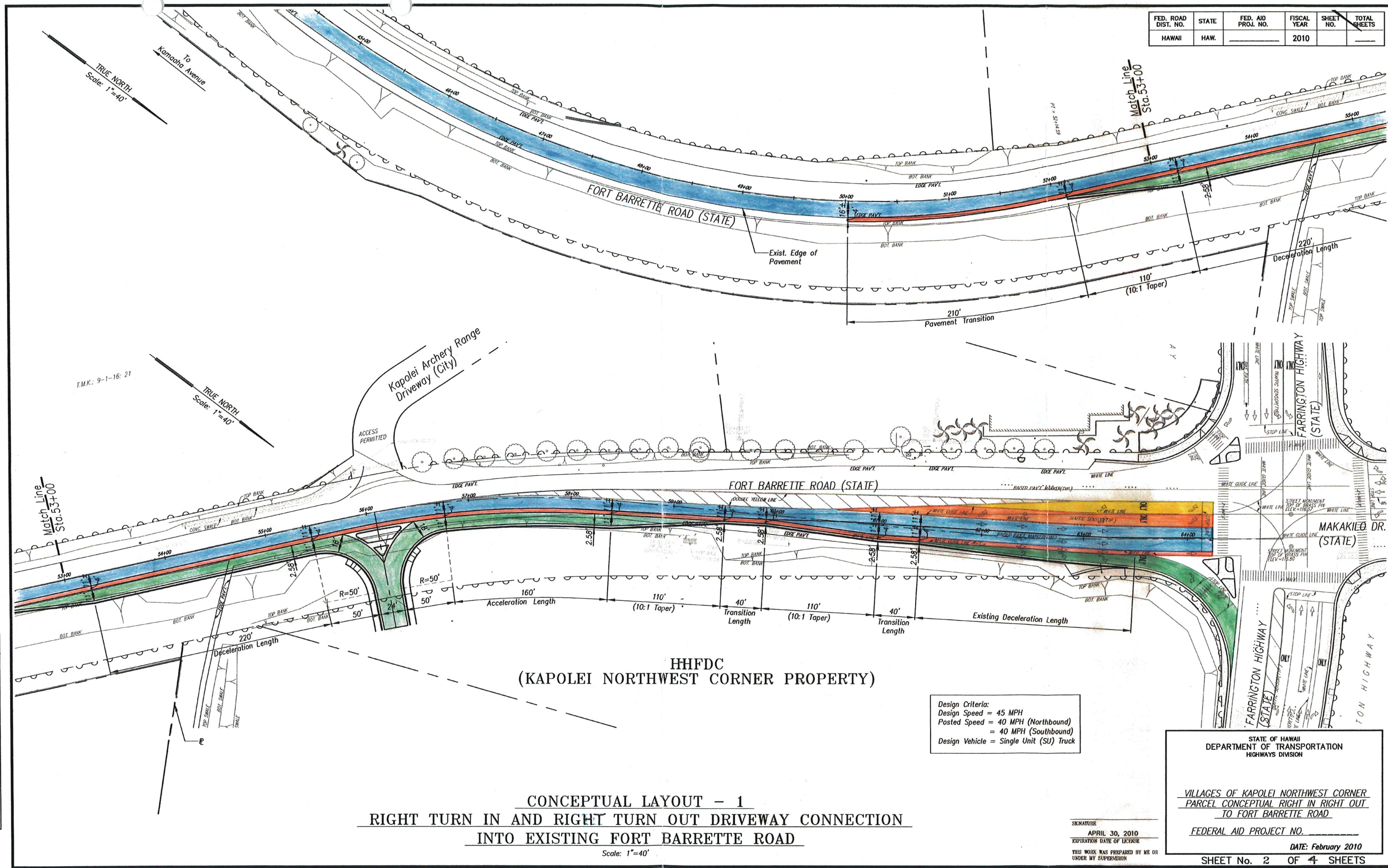
VILLAGES OF KAPOLEI NORTHWEST CORNER
PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETTE ROAD

FEDERAL AID PROJECT NO. _____

DATE: February 2010

SHEET No. 1 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2010		



T.M.K.: 9-1-16: 21

TRUE NORTH
Scale: 1"=40'

TRUE NORTH
Scale: 1"=40'

HHFDC
(KAPOLEI NORTHWEST CORNER PROPERTY)

Design Criteria:
Design Speed = 45 MPH
Posted Speed = 40 MPH (Northbound)
= 40 MPH (Southbound)
Design Vehicle = Single Unit (SU) Truck

CONCEPTUAL LAYOUT - 1
RIGHT TURN IN AND RIGHT TURN OUT DRIVEWAY CONNECTION
INTO EXISTING FORT BARRETTE ROAD

Scale: 1"=40'

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
NO. _____

SIGNATURE: _____
APRIL 30, 2010
EXPIRATION DATE OF LICENSE: _____
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

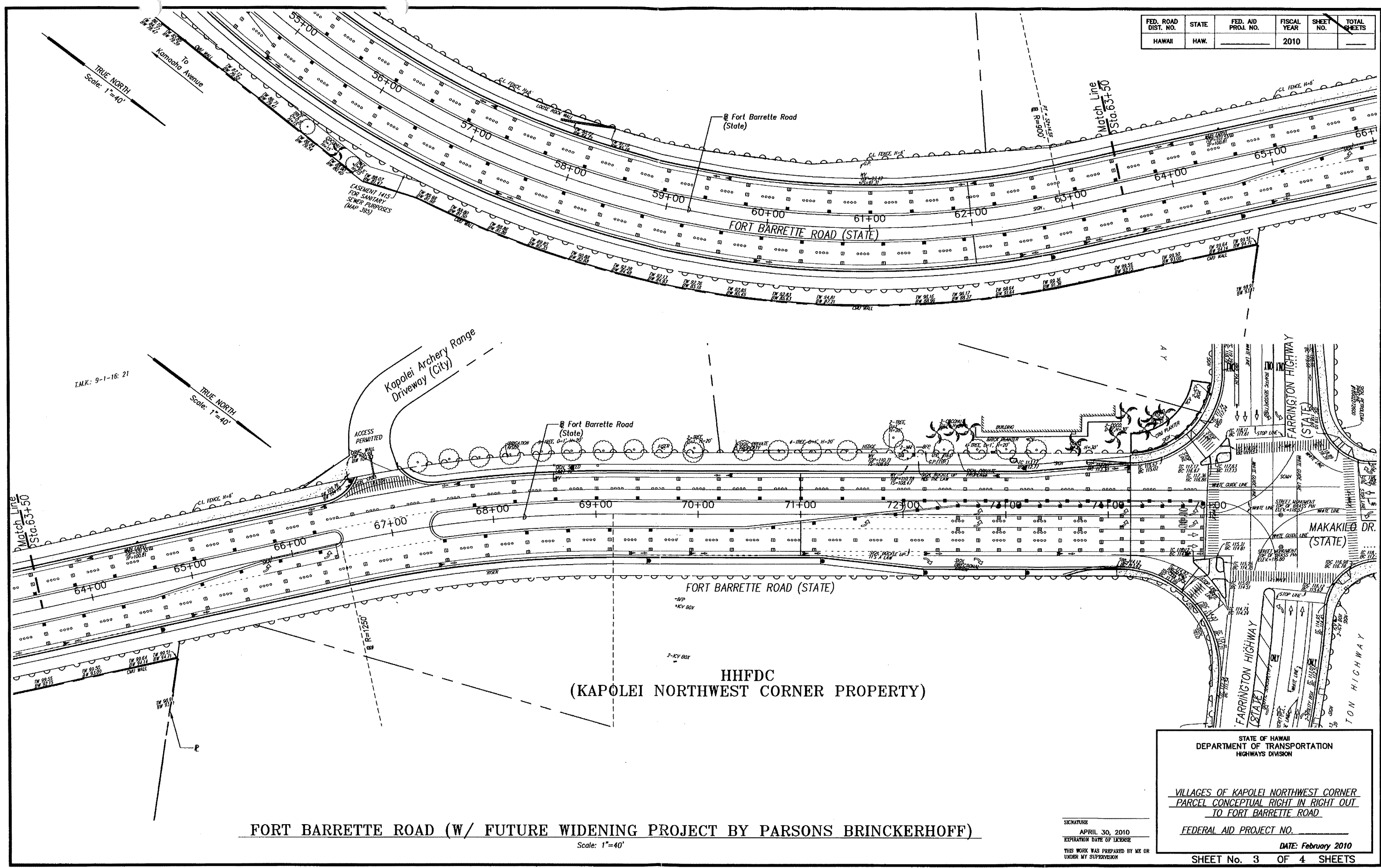
VILLAGES OF KAPOLEI NORTHWEST CORNER
PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETTE ROAD

FEDERAL AID PROJECT NO. _____

DATE: February 2010

SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2010		



T.M.K.: 9-1-16: 21

TRUE NORTH
Scale: 1"=40'

TRUE NORTH
Scale: 1"=40'

DATE	.....
DESIGNED BY	.....
DRAWN BY	.....
CHECKED BY	.....
IN CHARGE	.....
DATE	.....
DESIGNED BY	.....
DRAWN BY	.....
CHECKED BY	.....
IN CHARGE	.....

FORT BARRETTE ROAD (W/ FUTURE WIDENING PROJECT BY PARSONS BRINCKERHOFF)

Scale: 1"=40'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

VILLAGES OF KAPOLEI NORTHWEST CORNER
PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETTE ROAD

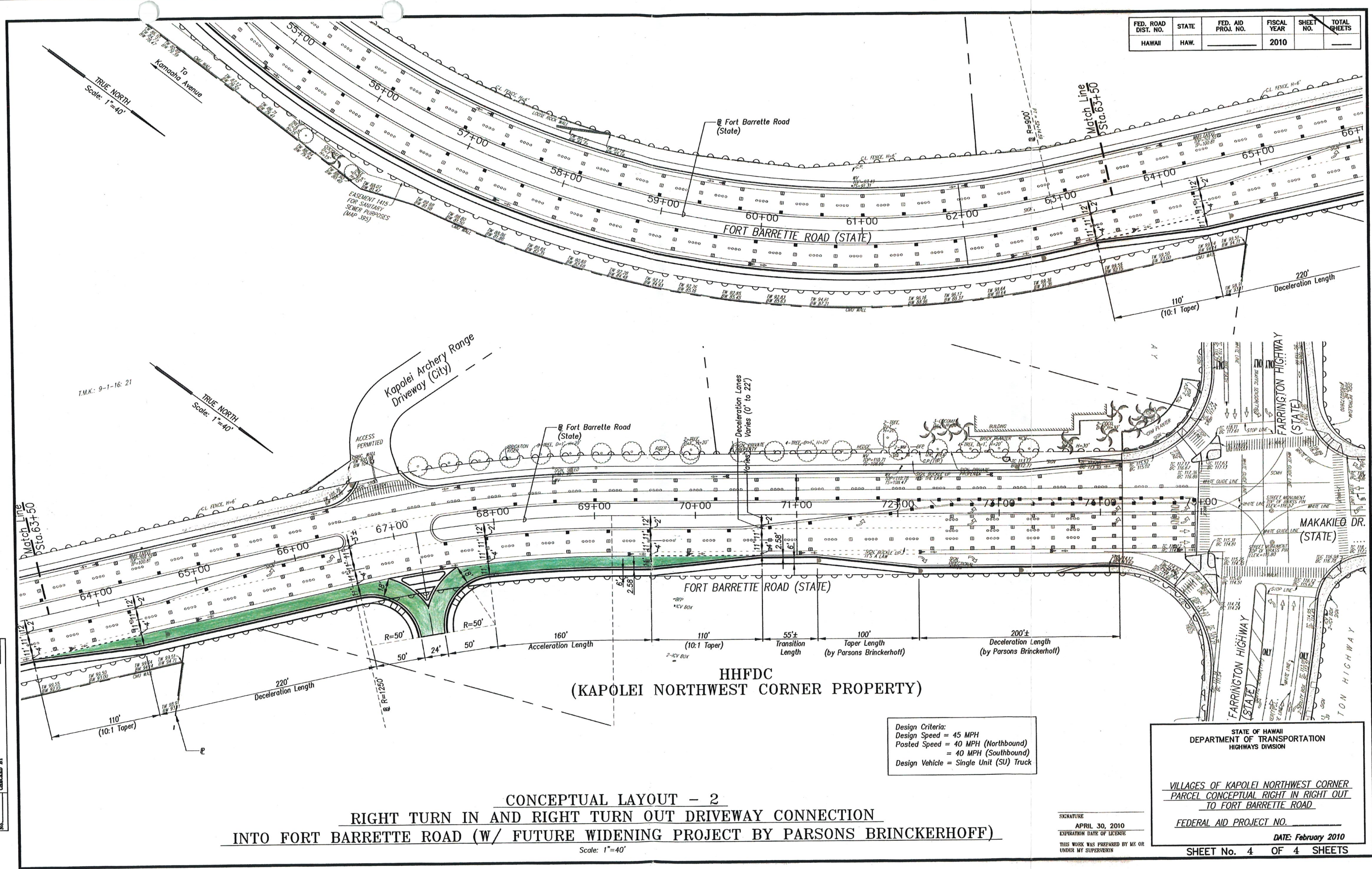
FEDERAL AID PROJECT NO. _____

DATE: February 2010

SHEET No. 3 OF 4 SHEETS

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APRIL 30, 2010
EXPIRATION DATE OF LICENSE
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HAWAII	HAW.		2010		



T.M.K.: 9-1-16: 21

TRUE NORTH
Scale: 1"=40'

TRUE NORTH
Scale: 1"=40'

DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
APPROVED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

CONCEPTUAL LAYOUT - 2
RIGHT TURN IN AND RIGHT TURN OUT DRIVEWAY CONNECTION
INTO FORT BARRETTE ROAD (W/ FUTURE WIDENING PROJECT BY PARSONS BRINCKERHOFF)

Scale: 1"=40'

Design Criteria:
 Design Speed = 45 MPH
 Posted Speed = 40 MPH (Northbound)
 = 40 MPH (Southbound)
 Design Vehicle = Single Unit (SU) Truck

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

VILLAGES OF KAPOLEI NORTHWEST CORNER
PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETTE ROAD

FEDERAL AID PROJECT NO. _____
 DATE: February 2010
 SHEET No. 4 OF 4 SHEETS

SIGNATURE _____
 APRIL 30, 2010
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 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

LINDA LINGLE
GOVERNOR



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

MICHAEL D. FORMBY
INTERIM DIRECTOR

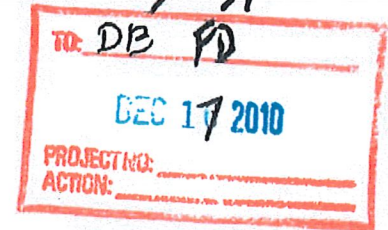
Deputy Directors
FRANCIS PAUL KEENO
JIRO A. SUMADA

IN REPLY REFER TO:

HWY-PS
2.7200

December 6, 2010

Mr. David B. Bills
President
Bills Engineering Inc.
1124 Fort Street Mall, Suite 200
Honolulu, Hawaii 96813



Dear Mr. Bills:

Subject: Villages of Kapolei – Northwest Corner Site Access
Kapolei, Ewa, Oahu TMK: (1) 9-01-016: 035 (por.)

Thank you for submitting the conceptual layout plans for the subject access in response to our letter dated March 6, 2009. It is our understanding that two conceptual layouts were provided with descriptions of each concept. Conceptual Layout 1 shows the access with existing conditions on Fort Barrette Road, while Conceptual Layout 2 consists of the project access with the proposed Fort Barrette Road widening project. We have reviewed the conceptual layout and related description summaries and have the following comments:

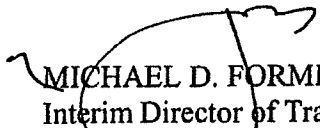
- 1) Issues such as the close proximity of the access to the Farrington Highway intersection, and the queuing or weaving effects created by the close proximity of the intersection and driveway have not been adequately addressed. Considering the anticipated levels of congestion, these issues should be analyzed further and should provide the necessary justification for the proposed layout.
- 2) The proposed acceleration lane may not be appropriate for the “urban” design of Fort Barrette Road.
- 3) Although the information provided in the attachment states that all Federal and State standards are met, it appears that this is not true. All design criteria and values should be stated in the plans along with justification for how these standards were met.
- 4) The recommendations provided in the Traffic Assessment dated April 2008 does not match the proposed plans. The study recommended three northbound lanes on Fort Barrette Road. Replacing the exclusive right-turn lane with a shared through/right-turn lane is not acceptable.

- 5) Recommended lane widths for all lanes of Fort Barrette Road should be 12 feet.
- 6) Additional comments are provided directly on the conceptual plans.

In considering these comments, the conceptual layout plans, as provided, are deemed unacceptable and should be revised accordingly to address the aforementioned concerns. We do understand the importance of affordable housing for the community and wish to continue a collaborative effort towards a solution which will minimize the operational impact to the Kapolei area.

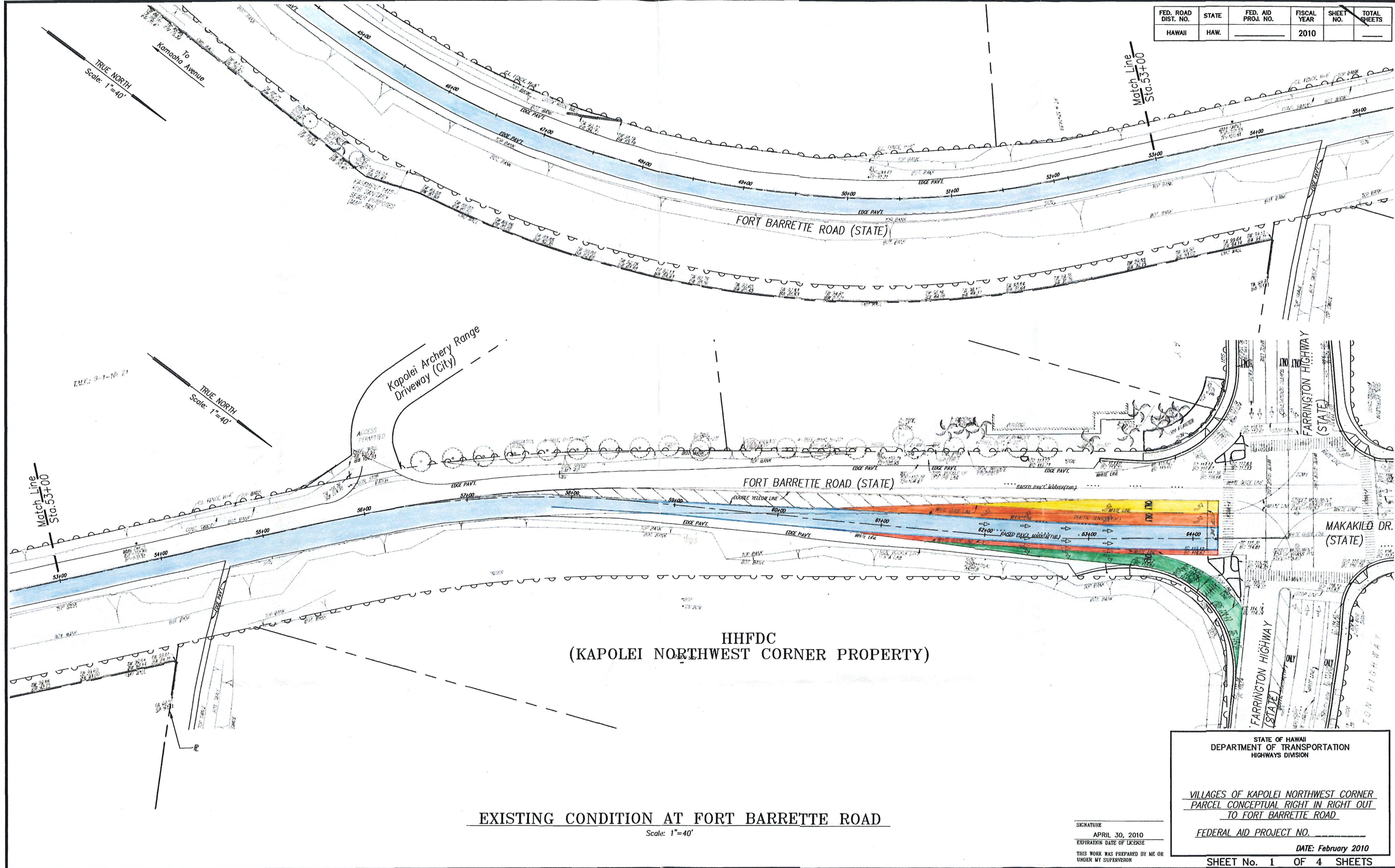
If you have any questions, please contact Ken Tatsuguchi, Head Planning Engineer, Highways Division, at 587-1830.

Very truly yours,


MICHAEL D. FORMBY
Interim Director of Transportation

Attachment

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2010		



EXISTING CONDITION AT FORT BARRETTE ROAD

Scale: 1"=40'

DESIGNED BY	DATE
CHECKED BY	
APPROVED BY	
NOTED BY	
QUANTITIES BY	
REVISIONS BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

VILLAGES OF KAPOLEI NORTHWEST CORNER
PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETTE ROAD

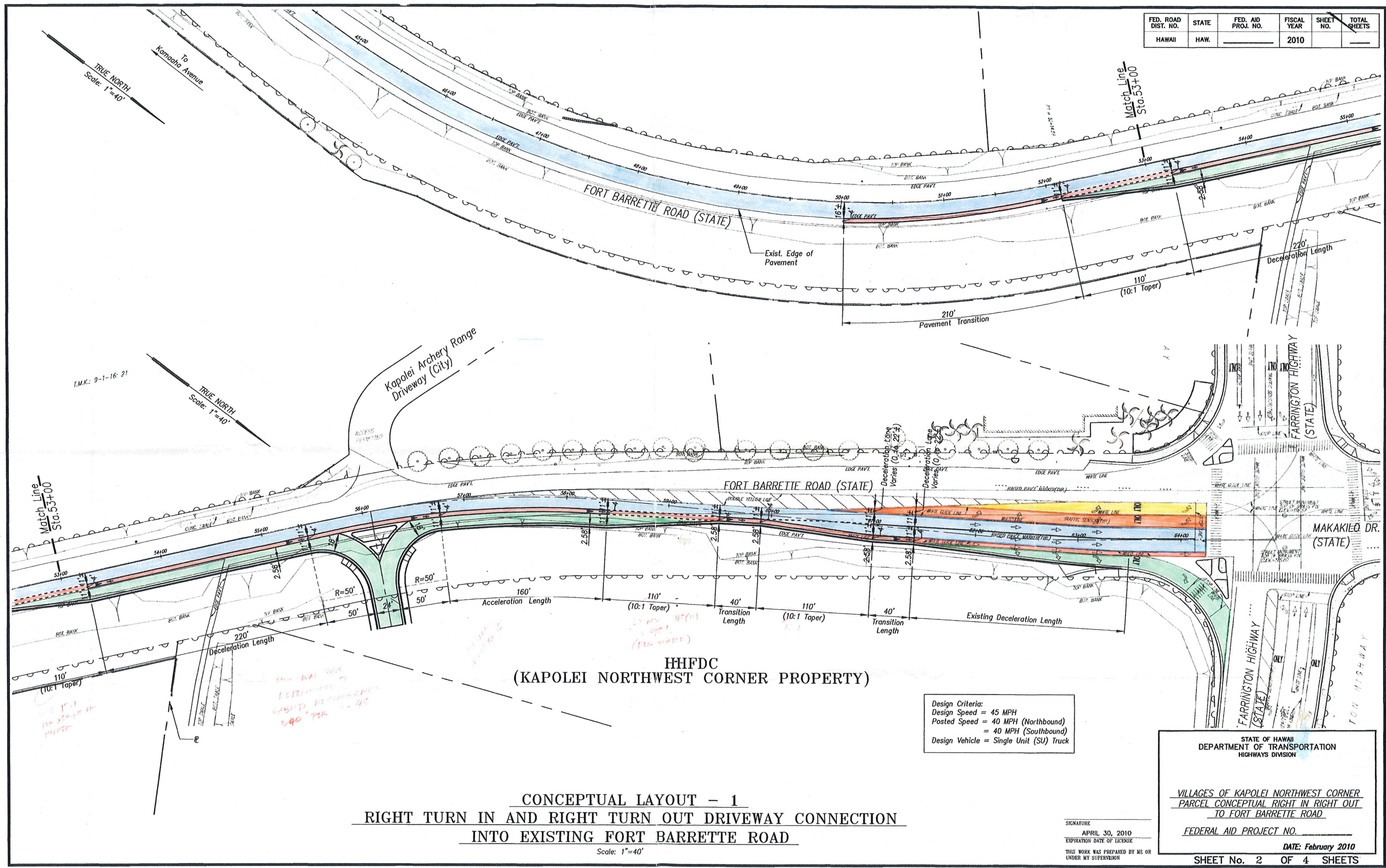
FEDERAL AID PROJECT NO. _____

DATE: February 2010

SHEET No. 1 OF 4 SHEETS

SIGNATURE _____
APRIL 30, 2010
EXPIRATION DATE OF LICENSE
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UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2010		



TRUE NORTH
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TRUE NORTH
Scale: 1"=40'

HHFDC
(KAPOLEI NORTHWEST CORNER PROPERTY)

Design Criteria:
Design Speed = 45 MPH
Posted Speed = 40 MPH (Northbound)
= 40 MPH (Southbound)
Design Vehicle = Single Unit (SU) Truck

CONCEPTUAL LAYOUT - 1
RIGHT TURN IN AND RIGHT TURN OUT DRIVEWAY CONNECTION
INTO EXISTING FORT BARRETTE ROAD

Scale: 1"=40'

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
NOTED BY	
CHECKED BY	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

VILLAGES OF KAPOLEI NORTHWEST CORNER
PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETTE ROAD

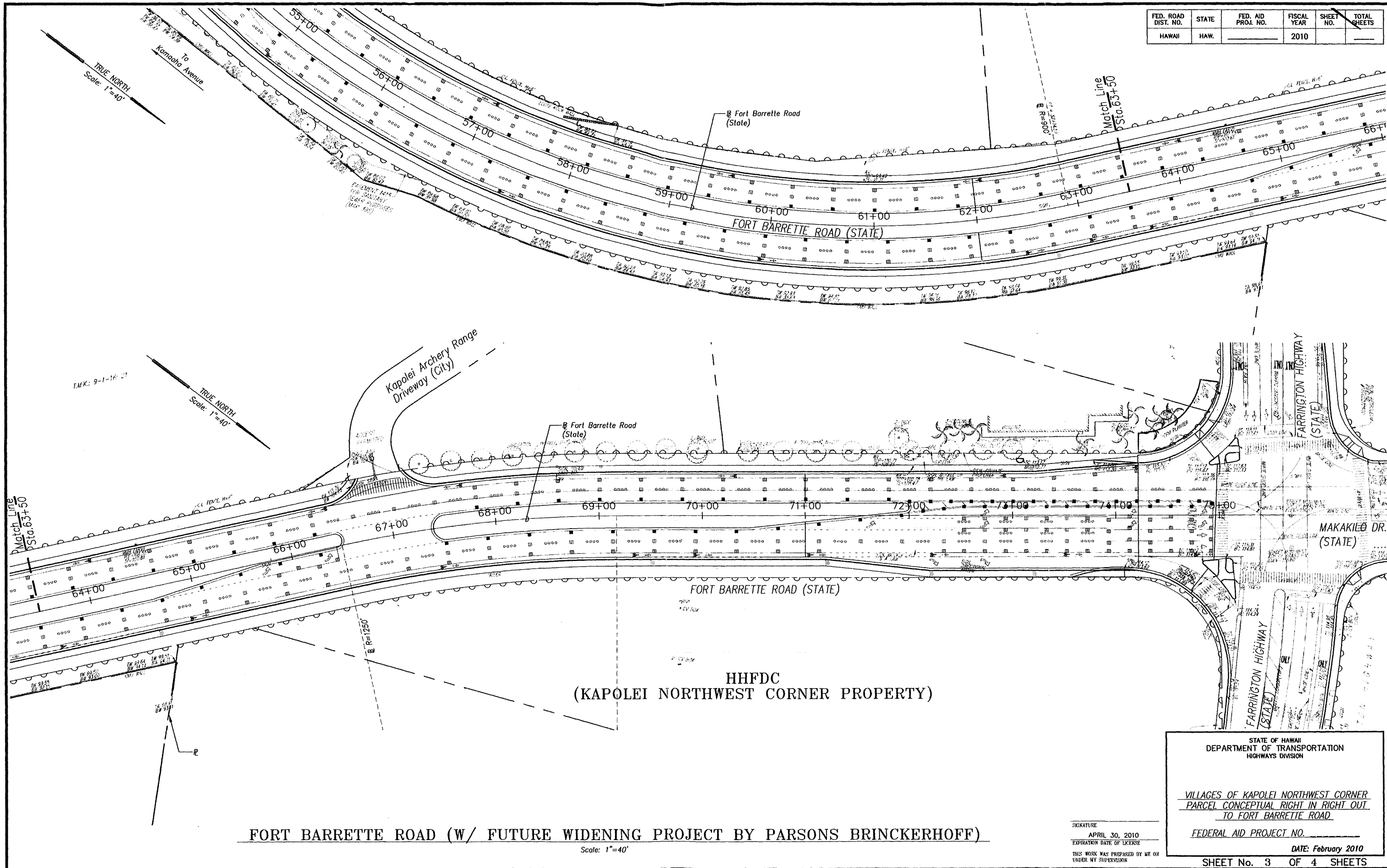
FEDERAL AID PROJECT NO. _____

DATE: February 2010

SHEET No. 2 OF 4 SHEETS

SIGNATURE
APRIL 30, 2010
EXPIRATION DATE OF LICENSE
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UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2010		



FORT BARRETTE ROAD (W/ FUTURE WIDENING PROJECT BY PARSONS BRINCKERHOFF)

Scale: 1"=40'

DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
APPROVED BY	_____
PROJECT NO.	_____
SHEET NO.	3

SIGNATURE _____
 APRIL 30, 2010
 EXPIRATION DATE OF LICENSE
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

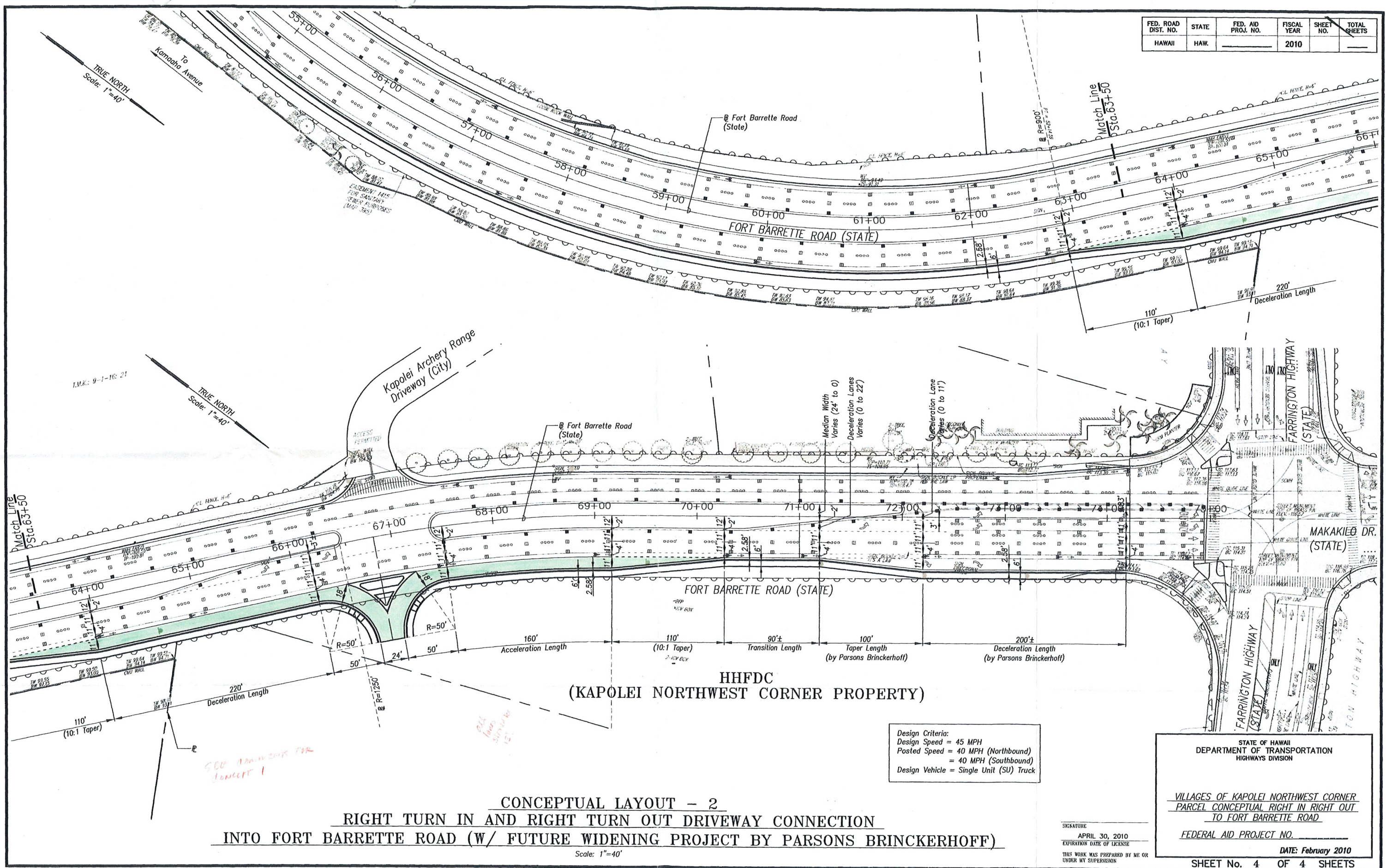
VILLAGES OF KAPOLEI NORTHWEST CORNER
PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
TO FORT BARRETTE ROAD

FEDERAL AID PROJECT NO. _____

DATE: February 2010

SHEET No. 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2010		



DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____

CONCEPTUAL LAYOUT - 2
RIGHT TURN IN AND RIGHT TURN OUT DRIVEWAY CONNECTION
INTO FORT BARRETTE ROAD (W/ FUTURE WIDENING PROJECT BY PARSONS BRINCKERHOFF)

Scale: 1"=40'

Design Criteria:
 Design Speed = 45 MPH
 Posted Speed = 40 MPH (Northbound)
 = 40 MPH (Southbound)
 Design Vehicle = Single Unit (SU) Truck

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

VILLAGES OF KAPOLEI NORTHWEST CORNER
 PARCEL CONCEPTUAL RIGHT IN RIGHT OUT
 TO FORT BARRETTE ROAD

FEDERAL AID PROJECT NO. _____

DATE: February 2010

SHEET No. 4 OF 4 SHEETS