

From: [Stacy Armstrong](#)
To: [Deborah Chang](#); [Brian Takeda](#)
Cc: [James Yamamoto](#); [Michelle Wong](#)
Subject: RE: QK Ph2 MOA STIPULATION 15-TERRAIN MODEL 072917
Date: Monday, July 31, 2017 3:11:16 AM

Hi Deborah,

I hope you can attend our next terrain model meeting and present your comments and mark-ups to all. This preliminary model was created based on mark-ups from Hannah and the diacritical marks were marked at that time as well.

We are not the informational source for this model. It's based on the input we receive.

The kmz file in the sharefile link will take you to Google Earth. This will be the best source of coordinates.

Regarding the layers, if your software allows you to turn off and on layers, you can toggle on and off the lava flow, puu, trails, ahupuaa, mountain hatching, contour lines and the greenery hatching.

Feel free to send me your mark-up and we can print it and bring it to the next meeting for all to review and decide how/what to add to the preliminary model.

Thank you,

Stacy

Stacy K. Y. Armstrong, P.E., LEED AP

<mailto:StacyA@rmtowill.com>

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From: Deborah Chang [<mailto:kulaiwi@hawaiiantel.net>]
Sent: Saturday, July 29, 2017 2:41 PM
To: Brian Takeda <BrianT@rmtowill.com>; Stacy Armstrong <StacyA@rmtowill.com>
Cc: James Yamamoto <JimmyY@rmtowill.com>; Michelle Wong <MichelleW@rmtowill.com>
Subject: RE: QK Ph2 MOA STIPULATION 15-TERRAIN MODEL 072917

Mahalo Brian for taking the time to answer! It helps to know where to look in the documents you provided (sorry I didn't see it)!

Aloha,

Deborah

From: Brian Takeda [<mailto:BrianT@rmtowill.com>]
Sent: Saturday, July 29, 2017 11:54 AM
To: kulaiwi@hawaiiantel.net; Stacy Armstrong <StacyA@rmtowill.com>

Cc: James Yamamoto <JimmyY@rmtowill.com>; Michelle Wong <MichelleW@rmtowill.com>

Subject: QK Ph2 MOA STIPULATION 15-TERRAIN MODEL 072917

Importance: High

Deborah and Stacy,

Here are some answers to the questions below, from Deborah:

1. The entirety of Stipulation 15 was attached in the meeting notes provided entitled: **QK Ph2 Terrain Model Mtg 021017.pdf**. It's on pdf page 9, and it's short:

STIPULATION 15: "TERRAIN MODEL. The HDOT shall commission the construction of a terrain model depicting the lands of Kekaha (between Kailua and Anaehoomalu) in consultation with Makani Hou o Kaloko-Honokōhau. The model shall incorporate topographic relief, traditional place names, historic trails, settlement locations, interpretive signs, and other important landmarks, to be determined. The model may be housed at the Kaloko-Honokōhau National Historical Park under the auspices of the Hawai'i Pacific Parks Association. The model shall be of such scale that it can be transported to other locations and be used as a teaching tool. A second digital model will also be developed and include similar information as the terrain model."

2. We're not specifically doing a land survey from which GPS coordinates would be generated. However, I'm referring the questions you have to Stacy Armstrong, P.E., who might be able to answer the comments and questions you have that are highlighted in yellow, below.

We've added you to the notification list for the next Stipulation 15, Terrain Model meeting which needs to be scheduled. Because of the need to coordinate with several other meetings associated with the Queen Ka'ahumanu Highway, Phase 2, we expect our next get together to tentatively be scheduled for September. At that time we will provide notification.

Thank you,

Brian Takeda
Planning Project Coordinator
<mailto:BrianT@rmtowill.com>

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From: Deborah Chang [<mailto:kulaiwi@hawaiiantel.net>]
Sent: Friday, July 28, 2017 2:20 PM
To: Brian Takeda
Subject: RE: QK Ph2 MOA STIPULATION 15-TERRAIN MODEL 072617

Aloha Brian,

Please excuse me, as I am coming into this process after it has clearly been underway for many months. One of the meeting minutes refers to a "Stipulation 15" pertaining to the Terrain Model. Could you share that with me? I'm assuming it will shed light on what the intended purpose/uses of the Terrain Model are?

STACY – PLS HELP TO ANSWER

Are there plans to obtain GPS readings of the locations of mauka-makai trails that are breached by the Queen Ka`ahumanu Hwy? If so, that would be a useful layer to add to the map. Am I correct that there is just one layer currently on the pdf map (flattened view) and this layer is focused on correct place names, locations of ponds, lava flows, pu`u, etc.? I see inconsistent use of Hawaiian diacritical markings in the place names. There are other inconsistencies: "coral reef" noted just off shore of Keahuolū but not anywhere else; only one park noted: "Kona Coast State Park," when there are many others. The symbol used to denote AhuoLono (should it be "KeahuaLono?") at the boundary of South Kohala and North Kona Districts looks like the symbol used for special pu`u/craters. Would be good to select a symbol for cultural/historic sites that sets them clearly apart from natural features. Is the terrain model going to cover just the area between `Anaeho`omalua and Keahuolū?

Sorry for the many questions. Is there someone else on your staff that I should be working with on this?

Mahalo for your time,
Deborah

From: Brian Takeda [<mailto:BrianT@rmtowill.com>]
Sent: Thursday, July 27, 2017 11:34 AM
To: kulaiwi@hawaiiantel.net
Subject: QK Ph2 MOA STIPULATION 15-TERRAIN MODEL 072617
Importance: High

Hi Deborah, I entered your e-mail incorrectly so am resending this to the correct address. Thank you,

Brian Takeda
Planning Project Coordinator
<mailto:BrianT@rmtowill.com>

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From: Brian Takeda
Sent: Thursday, July 27, 2017 10:25 AM

To: 'kulaiwi@hawaiiantel.com'

Cc: Michelle Wong; Stacy Armstrong; James Yamamoto; Jason Tateishi

Subject: QK Ph2 MOA STIPULATION 15-TERRAIN MODEL 072617

Importance: High

Deborah,

Thanks for introducing yourself to us at the MOA Stipulation 10B-Underpass Feasibility Study meeting in Kona on Tuesday. As requested, here's some of the information developed during the course of our Stipulation 15-Terrain Model meetings with participants:

QK Ph2 Terrain Model Mtg 021017.pdf – This is a record of the February 10, 2017 meeting

QK Ph2 Terrain Model Mtg 022117.pdf – This is a record of the February 21, 2017 meeting

161206 Queen Kaahumanu Mtg Notes-Final Notes Pkg.pdf – This is for a meeting where the breaches to the trails was announced by HDOT, December 6, 2016. This meeting is referenced in the February 10th meeting notes.

E-mail QK Ph2 Final Comments for MOA Stip 15-Terrain Model.pdf – This is a copy of an e-mail providing a link to where the current digital terrain model can be downloaded. The content is large and depending on the PC you are using, may require several minutes to complete the on-screen render.

We will notify you when the next Terrain Model meeting is scheduled. Should you have any questions please let me know.

Sincerely,

Brian Takeda
Planning Project Coordinator
<mailto:BrianT@rmtowill.com>

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