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June 14, 2016

F.N. 1-15-0591

Lili Amini, General Manager  
**Trump National Golf Course**  
1 Trump National Drive  
Rancho Palos Verdes, CA 90275

**Subject:** Structural Evaluation No. 2 Pedestrian Bridge No. 10  
Trump National Golf Course, La Rotunda Canyon, Rancho Palos Verdes,  
California

**Reference:** Hamilton & Associates, Geotechnical Reconnaissance No. 2  
Pedestrian Bridge No. 10, Trump National Golf Course  
Project No. 15-2035, dated May 30, 2016

Palos Verdes Engineering Corporation, Preliminary Structural Evaluation,  
Pedestrian Bridge No. 10, Trump National Golf Course  
File No. 1-15-0591, dated January 4, 2016

Dear Ms. Amini:

### ASSIGNMENT

Pursuant to your request, we conducted a second Structural Evaluation of Pedestrian Bridge No. 10. to determine its structural integrity and condition. We base our conclusions on a visual observation of accessible exterior areas, from a second elevation survey of the bridge deck surface and from information provided by referenced geotechnical report by Hamilton & Associates. No destructive or subsurface testing was performed by our firm, that being beyond the scope of this report. Our field investigation was conducted on June 8, 2016.

## **SITE CONDITIONS & REVIEW OF REFERENCED GEOTECHNICAL REPORT**

We performed a second manometer survey of the Pedestrian Bridge No. 10 and found no deviations to the deck elevations from our initial survey performed on November 12, 2015 as depicted on Photographs 1 & 4, and Exhibit B.

Both East and West concrete abutments were examined as shown on Photographs 2 & 3 and we detected no signs of cracking or separation from the adjoining two-primary glu-laminated girders as depicted on Photographs 5 & 6. From our visual examination of the structural elements that comprise the construction of Pedestrian Bridge No. 10, we observed no evidence of structural distress.

A view of the Channel directly north of Pedestrian Bridge No. 10 is represented on Photograph 7 where surface runoff is allowed to erode the soil walls on either side.

A view of the Channel directly south of the Pedestrian Bridge No. 10 is represented on Photograph 8 where we observed evidence of surficial erosion as surface runoff is directed toward the Ocean.

From our review of the referenced Hamilton & Associates report, we noted that their Cross Section of Pedestrian Bridge No. 10 which was updated on May 2016 on Plate 1 indicates that the Channel Bottom has deepened approximately 1 foot and widened approximately 3 feet toward the East Abutment since their prior profile measurement. No changes in the Channel profile toward the closer West Abutment is illustrated in their report.

## **CONCLUSIONS**

It is our opinion that the structural condition of Pedestrian Bridge No. 10 has not changed since our initial inspection on November 12, 2015. Our second manometer survey revealed no noticeable changes in the bridge deck elevations as compared to our initial survey conducted on November 12, 2015.

*It appears that the only change that has occurred at this bridge since our initial site visit on November 12, 2015 has been the profile of the exposed Canyon bottom directly beneath as recorded and measured by Hamilton & Associates.*

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It is our recommendation that efforts be considered to reduce the amount of erosion which may cause future structural instability to the abutment foundations. This may involve collecting upstream runoff by installing a buried storm drain pipe to reduce the amount of water that can erode the Channel and/or to protect the Channel with reinforced concrete bottom and walls.

We also recommend further periodic structural and geotechnical re-examinations of the Bridge following heavy storms and seismic events.

Should you have any questions regarding the content of this report, please do not hesitate to call.

Very truly yours,

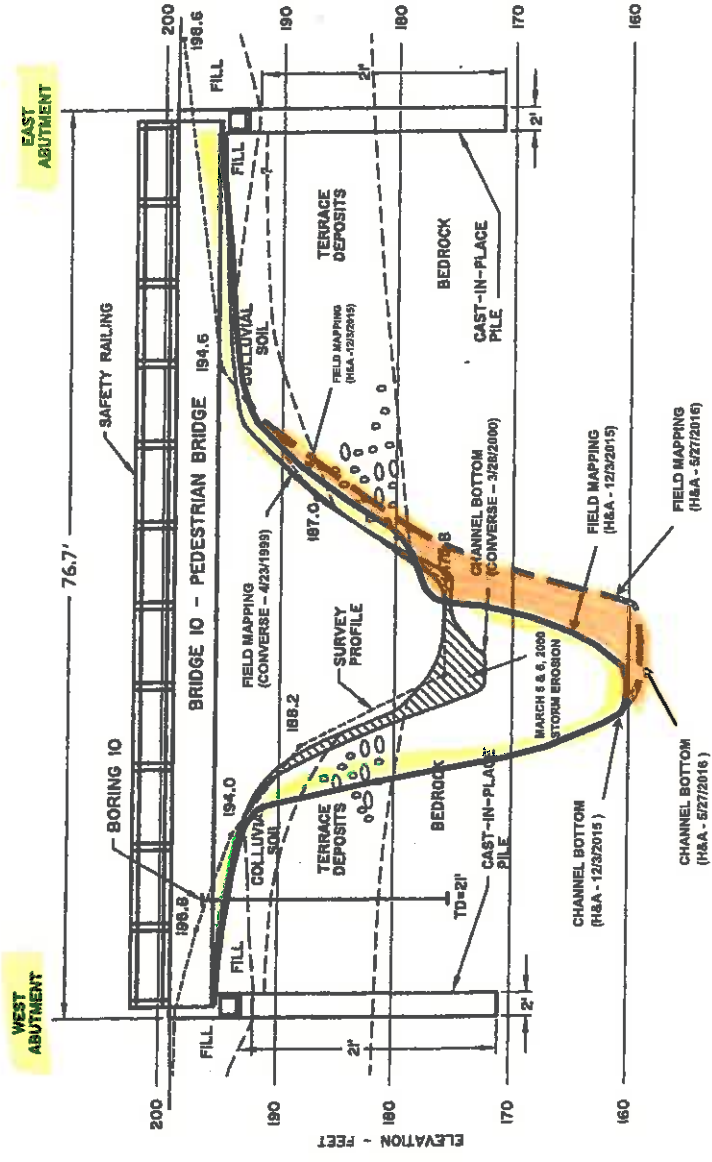
**PALOS VERDES ENGINEERING CORPORATION**



Rick A. Morales  
President

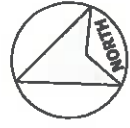


# Cross Section Pedestrian Bridge No. 10



- CROSS SECTION PROFILE FACING UP THE CANYON
- MEASUREMENTS TAKEN FROM TOP OF BRIDGE DECK ON THE NORTH SIDE

**PEDESTRIAN BRIDGE  
TRUMP NATIONAL GOLF COURSE  
LA ROTUNDA CANYON CROSSING  
RANCHO PALOS VERDES, CA**



APPROX SCALE: 1" = 10'

Based on Geologic Cross Section Profile by:  
Converse Consultants  
Project No. 97-31-297-01  
Date: (3/20/2000)

PROJECT: TNGC - La Rotunda Canyon Crossing

UPDATED MAY 2016

 Hamilton & Associates

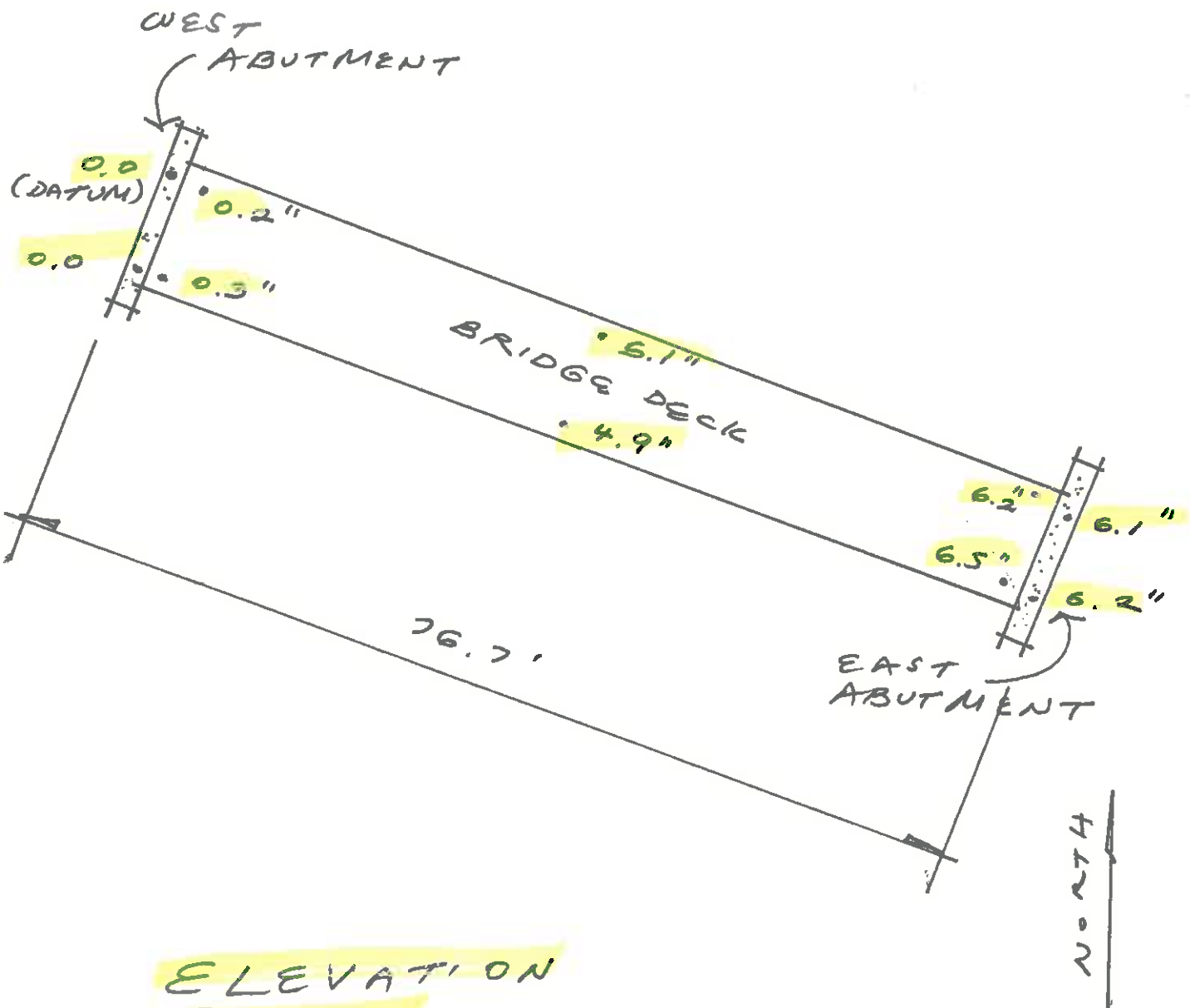
PROJECT NO: 15-2035

PLATE 1



TRUMP NATIONAL GOLF COURSE  
 PEDESTRIAN BRIDGE NO. 10.  
 PVEC F.N. 1-15-0591

EXHIBIT B



ELEVATION  
 SURVEY  
 OF  
 BRIDGE NO. 10  
 DECK SURFACE -

NOVEMBER 12, 2015  
 RECHECKED  
 JUNE 8, 2016

NTS



1 VIEW OF MANOMETER SURVEY TO VERIFY ELEVATION READINGS TAKEN FROM PRIOR SURVEY ON NOVEMBER 12, 2015



2 VIEW OF EAST ABUTMENT



3 VIEW OF WEST ABUTMENT





4 VIEW OF BRIDGE NO. 10  
DECK SURFACE TOWARD THE  
WEST ABUTMENT



S VIEW OF BRIDGE NO. 10 GIRDER  
TOWARD THE EAST (SOUTH)  
ABUTMENT



6 VIEW OF BRIDGE NO. 10 GIRDER  
TOWARD THE EAST ABUTMENT  
(NORTH)



8 NOTICEABLE SURFICIAL  
EROSION OF CANYON SURFACE  
& WALLS SOUTH OF  
PEDESTRIAN BRIDGE NO. 10



7

CANYON TO THE NORTH  
DIRECTS SURFACE RUNOFF  
TOWARDS & BENEATH  
PEDESTRIAN BRIDGE NO. 10