

TRANSMITTAL

TO: Mike Davis and Tom Pridgen

RE: Updates for Website

FROM: Richard Wawrzyniak

DATE: January 22, 2004

I am sending you ☒ Attached
 ☐ Under Separate Cover

The following item(s) for review and concurrence:

COPIES	DATE	No. of Sheets	DESCRIPTION
1	1/04		Include a note for the Datum on the Key Sheet

REMARKS: The Volume II of the PPM does not require the design datum to be called out on the key sheet.

Recently, FDOT projects have been required to complete their design in NAVD, 1988 Datum. This change in datum affects elevations on Turnpike projects on the range of 1.0 to 1.8-feet. That means a physical item that was labeled elevation 65.3 in older, NGVD plans, will now be labeled as elevation 64.0. Plans are not just used for construction. Many agencies and people use the plans developed by FDOT. Local agencies and developers still use the older, NGVD datum for their work effort. Most maps, studies and permits are completed in NGVD datum. Confusion has already been experience by various users of FDOT plan sets. They do not “see” the single, general note that is required for FDOT plans. For several years, Turnpike has tried to remedy this problem by adding specific notes to drainage maps and pond sheets. Sections in the TPPPH request plan notes for the datum and how to convert from one datum to the other. Problems still occur.

Not too long ago, plans were labeled on the key sheet as a “metric set of plans”. This helped explain why elevations listed in plans were so different from what the user was expecting. With the new datum change, users do not immediately recognize that the elevations have been adjusted. Then, there is the related problem we experience because not all new projects are designed in NAVD datum. About half of the current designs are NGVD datum for one reason or the other. Although the datum is usually called out on the project layout sheet, we have not avoided confusion.

For clarity, it has been recommend to note the plan datum on the key sheet. The proposed call-out on the key sheet should state whether NAVD Datum was used for design (and conversely NGVD.)

The recommendation is to Volume II Section 3.7 of the PPPH and reads as follows:

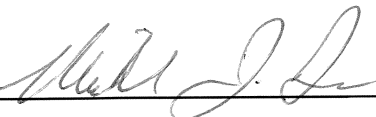
Projects designed with NAVD, 1988* Datum should include a note on right side on the sheet.

"This project is designed to NAVD, 1988 Datum"

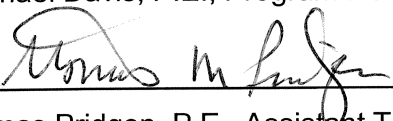
Projects designed with NGVD, 1929 Datum should include a note on right side on the sheet.

"This project is designed to NGVD, 1929 Datum"

(* Insert another year as appropriate.)

Concurrence: 
Michael Davis, P.E., Program Manager

1-26-04
Date

Concurrence: 
Thomas Pridgen, P.E., Assistant Turnpike Design Engineer

1/26/04
Date