RESOLUTION TITLE: **TO REQUEST THE N.C. DEPARTMENT OF TRANSPORTATION (NCDOT) TO ADOPT AND POST A 35 MPH SPEED LIMIT FOR THE APPLE CREEK PARKWAY**

WHEREAS, Gaston County acquired, designed and constructed a single tenant manufacturing business park between the Dallas-Cherryville Highway (279) and Dallas-Bessemer City Road (Hwy. 275), known as the Apple Creek Corporate Center; and,

WHEREAS, the Apple Creek Parkway connecting Hwy 275 and Hwy 279, within the Apple Creek Corporate Center, has been designed and built to NCDOT standards in order that the Department would accept the Parkway into the State system and assume maintenance of the road; and,

WHEREAS, the tenants within the Apple Creek Corporate Center will have large vehicles entering and exiting their properties at slow speeds and the County's engineer of record, Benesch, has recommended that the maximum safe speed for the Apple Creek Parkway should not exceed 35 miles per hour; and,

WHEREAS, the Gaston County Board of Commissioners finds that it is in the best interests of citizens of the County, and the tenants of Apple Creek Corporate Center that the speed limit for Apple Creek Parkway be set at 35 miles per hour.

NOW, THEREFORE, BE IT RESOLVED that the Gaston County Board of Commissioners requests the North Carolina Department of Transportation to adopt and post a speed limit of 35 miles per hour for the Apple Creek Parkway between Highway 279 and Highway 275.

DO NOT TYPE BELOW THIS LINE

I, Donna S. Buff, Clerk to the County Commission, do hereby certify that the above is a true and correct copy of action taken by the Board of Commissioners as follows:

NO.	DATE	M1	M2	CBrown	CCloninger	AFraley	BHovis	KJohnson	TKeigher	RWorley	Vote
2023-096	03/28/2023	BH	TK	A	A	A	A	A	A	A	U

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A=AYE, N=NAY, AB=ABSENT, ABS=ABSTAIN, U=UNANIMOUS

benesch

February 28, 2023

Donny Hicks
CEcD, Executive Director
Gaston County EDC
620 North Main Street
Belmont, NC 28012

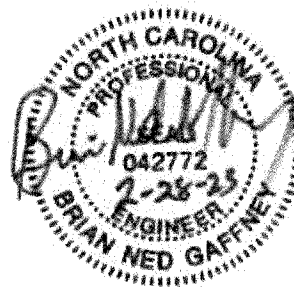RE: **Apple Creek Parkway Design Speed**

Mr. Hicks:

The purpose of this letter is to provide information related to the design speed criteria utilized for Apple Creek Parkway (noted as -L- Applewood RD. in the roadway plans) as part of the Apple Creek Corporate Park plans.

- Design Speed = 40 MPH, Posted Speed = 35 MPH
- Max 4% Superelevation (minimum radius 533')
    - Curve at PI 74+89.81 is below this radius at 350', but it is a stop condition and superelevation has to rotate to meet NC 279.
    - It is my engineering judgement that these conditions allow for the design parameters to be slightly below the target design speed.
- Vertical Curve Design Speed = 40 MPH
    - Min K = 64 for Sag Curves
    - Min K = 44 for Crest Curves

If there are any questions relating the design speed used or the anticipated posted speed for this route, please feel free to contact me.

Thank you,

Brian N. Gaffney

CC: Sean Murray
        Benjamin Simpson

Gaston County

Economic Development Commission

Board Action

File #: 23-111

Commissioner Keigher - EDC - To Request the N.C. Department of Transportation to Adopt and Post a 35 Mph Speed Limit for the Apple Creek Parkway (Apple Creek Corporate Center)

STAFF CONTACT

Donny Hicks - EDC Director - 704-825-4046

BUDGET IMPACT

N/A

BUDGET ORDINANCE IMPACT

N/A

BACKGROUND

Benesch Engineering has recommended that the speed limit for Apple Creek Parkway (Apple Creek Corporate Center) be set at 35 miles per hour. The ordinary NC DOT parameters for a road of this type would be in excess of 35 miles per hour. This Resolution will request a speed limit for Apple Creek Corporate Center that is appropriate for the use of the tenants within the Park.

POLICY IMPACT

N/A

ATTACHMENTS

Resolution and Benesch Engineering Letter

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