

# **SUBDIVISION REPORT - CONCEPT**

► FILE #: 24 12-SE-21-C AGENDA ITEM #: AGENDA DATE: 12/9/2021 SUBDIVISION: **PROSPERITY CROSSING** APPLICANT/DEVELOPER: **STEVE MADDOX** I-40 75 Business Park, LLC OWNER(S): 141 028, 02802, 02805, 02806, 033 & 03304 TAX IDENTIFICATION: View map on KGIS JURISDICTION: **County Commission District 6** STREET ADDRESS: 13115 & 0 El Camino Lane, 0 Everett Road, 13206 & 0 Buttermilk Rd. LOCATION: West side of Everett Road, north side of El Camino Lane, south side of **Buttermilk Road** SECTOR PLAN: Northwest County **GROWTH POLICY PLAN:** Planned Growth Area WATERSHED: **Hickory Creek** APPROXIMATE ACREAGE: 166 acres ZONING: CB (Business and Manufacturing) & RB (General Residential) EXISTING LAND USE: Vacant land PROPOSED USE: **Commercial (undefined)** SURROUNDING LAND North: Single family and rural residential, landscape business -- A (Agricultural), CA (General Business) USE AND ZONING: South: Interstate 40/75, Watt Road interchange -- A (Agricultural), CB (Business and Manufacturing) East: Vacant land, truck & highway oriented commercial uses -- CB (Business and Manufacturing) West: Vacant land, Commercial -- CB (Business and Manufacturing), A (Agricultural), Loudon County zoning (unknown) NUMBER OF LOTS: 0 SURVEYOR/ENGINEER: **Robert Campbell & Associates** ACCESSIBILITY: Access is via El Camino Ln., a local street with 22ft of pavement width within the Interstate 40/75 right-of-way; and via Everett Rd., a minor arterial street with 21ft of pavement width within 50ft of right-of-way. SUBDIVISION VARIANCES VARIANCES: 1) Reduce the minimum vertical curve from K=25 to K=16 on Road 'A' **REQUIRED:** at STA 11+00. 2) Reduce the minimum curb radii at an intersection from 75 ft to 25 ft for all intersections. 3) Reduce the minimum vertical curve from K=25 to K=19 on Road 'C' at STA 78+75. (Requested by applicant)

4) Reduce the minimum vertical curve from K=25 to K=20 on Road 'C' at STA 78+75. (Recommended by staff)

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#### STAFF RECOMMENDATION:

Approve variances 1, 2, & 4 on the recommendations of the Knox County Department of Engineering and Public Works and because the site conditions restrict compliance with the Subdivision Regulations and will not create a traffic hazard, and Deny variance #3.

#### Approve the Concept Plan for the construction and platting of the roads only, subject to 8 conditions.

1. Connection to sanitary sewer and meeting any other relevant requirements of the utility provider.

2. Provision of street names that are consistent with the Uniform Street Naming and Addressing System within Knox County (Ord. 91-1-102).

3. Certifying sight distance at all intersections with review and approval by Knox County Engineering and Public Works during the design plan phase.

4. Road 'A' shall not connect to Everett Road until it is widened as part of a public improvement project or the property owner submits a transportation impact study and implements the recommended improvements.

5. If a final plat for the internal road right-of-ways is submitted before the Planning Commission has reviewed and approved a concept plan for the lots, including a transportation impact study,, the following note must be added to the plat: "No access shall be provided to the internal roads until a concept plan for the lots has been submitted and approved by the Planning Commission. A transportation impact study must be submitted with the concept plan application and all recommended improvements to the internal roads and external roads must be implemented by the property owner unless otherwise agreed upon by Knox County Engineering and Public Works and/or the Tennessee Department of Transportation."

6. Obtaining approval from Loudon County for the extension of Road 'B' and Road 'C' into their jurisdiction. If the Loudon County portions of these roads are not installed at the same time as the portions in Knox County, a temporary turnaround shall be provided as required by Knox County Engineering and Public Works and Knox County Fire Prevention Bureau.

7. Meeting all applicable requirements of the Knox County Department of Engineering and Public Works.

8. Submitting to Planning staff prior to final plat review by the Planning Commission or Planning staff, the certification of design plan approval form as required by the Knoxville-Knox County Subdivision Regulations.

### COMMENTS:

#### VARIANCES

1. Reduce the minimum vertical curve from K=25 to K=16 on Road 'A' at STA 11+00.

a) The standard minimum K value for this sag vertical curve is 25 because Road 'A' is being designed as a collector street (Section 3.04.I.4.b.2). If these were both local streets, the minimum K value is 15.

b) The reduced K value should not impact the ability of El Camino Lane to be expanded in the future because there is additional right-of-way width available on the opposite (south) side of the road. This was demonstrated in the concept plan approved in 2011 (12-SB-11-C).

c) The reduced K value will help reduce the amount of grading required within the HP (Hillside Protection) area.

2. Reduce the minimum curb radii at an intersection from 75 ft to 25 ft for all intersections.

a) The minimum intersection radius is 75 ft for property lines and curbs in commercial and industrial zones and the Knox County Engineering and Public Works department can reduce the radius to 50 ft as an alternative design standard. A reduction for either of these less than 50 ft requires a variance. The intersection radius for a typical local street, such as a residential subdivision, is 25 ft.

b) The subdivision regulations require larger radii in commercial developments as a default because it is typically required to accommodate the turning radius of larger vehicles, such as delivery trucks, so they don't have a tire go over the curb which could damage the curb and create ruts on shoulder of the road. The design of the road system, including lane widths and turn lanes, can also impact whether larger curb radii are needed.

c) Knox County Engineering and Public Works is in agreement with the requested 25 ft intersection radii for this proposal.

3. Reduce the minimum vertical curve from K=25 to K=19 on Road 'C' at STA 78+75. (Requested by the applicant)

a) Staff's recommendation to deny this variance is based on the proposed degree of reduction (K=19). Variance #4 below is for a slightly lower reduction (K=20) at the same location that staff is recommending for approval.

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4. Reduce the minimum vertical curve from K=25 to K=20 on Road 'C' at STA 78+75. (Recommended by staff)

a) This sag vertical curve on Road 'C' is required to have a minimum K value of 25 because Road 'A' is being designed as a collector street (Section 3.04.I.4.b.2). If these were both local streets, the minimum K value is 15.

b) Knox County Engineering and Public Works is recommending that the vertical curve be flatted slightly so it has a K value of 20.

c) The reduced K value will help reduce the amount of grading required within the HP (Hillside Protection) area.

ALTERNATIVE DESIGN STANDARD REQUIRING KNOX COUNTY ENGINEERING AND PUBLIC WORKS APPROVAL

1. Increase the maximum intersection grade from 1% to 2% for all intersections except for those with a crosswalk that must meet ADA standards.

a) The Subdivision Regulations allow Knox County Engineering and Public Works to approve an intersection grade up to 3% when a pedestrian crossing is not proposed. It is anticipated that a sidewalk will either be on one or both sides of Road 'A', so a crosswalk could be at each intersection. An ADA accessible crosswalk can have a cross slope of up to 2% but they are usually designed closer to 1%.

b) All intersections with a crosswalk must be designed and constructed to meet ADA standards.

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The purpose of this concept plan is to establish a public road network and begin site grading for the future subdivision of this commercial property into lots. If approved, this concept plan will only allow the applicant to seek permits for grading and construction of the road network, not subdivide the property into new lots and/or obtain building permits or establish new uses that access the new internal road network without further approvals. When the concept plan is submitted for the creation of lots, a transportation impact study must be provided and road improvements may be required to both the new internal roads and external roads, dependent on the proposed mix of uses, projected daily vehicle trips, and anticipated vehicle types.

The subdivision regulation road design standards are primarily for roads classified as local, such as typical residential streets and other streets with lower traffic volumes and limited turn movements. The main road through this commercial property, Road 'A', will be a collector with 3-lanes and a 60-ft right-of-way. The subdivision regulations defer to the road design standards of the applicable jurisdiction for collector and arterial streets. Knox County uses the applicable TDOT road design standard and Knox County Engineering and Public Works is in agreement that Road 'A' meets TDOT's standards for a 3-lane collector. Road 'B' and Road 'C' are designed as local streets and only need to meet the standards in the subdivision regulations.

#### PREVIOUS CONCEPT PLAN APPROVALS

Concept plans have been approved for this property in 2006, 2007, and 2011, however, they have expired. A transportation impact study (TIS) was submitted at that time and had recommendations for the design of internal roads, widening of existing roads, and a new traffic signal at the Watt Road and El Camino Lane intersection. These improvements included widening N. Watt Road to 8 lanes (including turn lanes) between the interchange and El Camino Lane, widening El Camino Lane to 4-5 lanes (including turn lanes), and widening and realigning portions of Everett Road to the Road 'A' intersection. Similar improvements may be necessary depending on the mix of uses in the development.

#### ZONING

The property is zoned CB (Business and Manufacturing) and RB (General Residential). The RB zoning is located on the north side of the site with frontage on Buttermilk Road and is approximately 25 acres of the 166 acre development. Most uses in the CB and RB zones do not require Planning Commission approval, so the only review by the Planning Commission may be a concept plan. The current application does not propose any uses for the site.

#### WATT ROAD INTERCHANGE

TDOT is studying the I-40/75 corridor from N. Campbell Station Road to the I-40/75 junction. This study includes developing options for improvements to the Watt Road interchange. This study is not far enough along to have a preferred option. The design of the interchange could have an impact on access to El Camino Lane and its intersection with N. Watt Road. TDOT has not allocated funding for these improvements and currently does not have a timeline for when construction will begin.

ESTIMATED TRAFFIC IMPACT: Not required.

ESTIMATED STUDENT YIELD: Not applicable.

Knoxville-Knox County Planning Commission's approval or denial of this request is final, unless the action is appealed to Knox County Chancery Court. The date of the Knox County Chancery Court appeal hearing will depend on when the appeal application is filed.



CONCEPT PLAN **PROSPERITY CROSSING** 12-SE-21-C 11/22/2021 KNOX COUNTY, TENNESSEE APPLICANT MANAGEMENT AND SALES SITE 100 DALTON PLACE WAY SUITE 105 KNOXVILLE, TN 37912 CONTACT: STEVE MADDOX PHONE: (865) 971-1975 ENGINEER: ROBERT G. CAMPBELL & ASSOCIATES 7523 TAGGART LANE KNOXVILLE, TN 37938 CONTACT: JASON SIVERLING DUDNE, CECH 217, COC PHONE: (865) 947-5996 EMAIL: JASONS@RGC-A.COM Certification of Concept Plan. I hereby certify that I am a registered engineer, licensed to practice engineering under the laws of the State of Tennessee. I further cert that the plan and accompanying drawings, documents and statements conform to all applicable provisions of the KnoxVIIIe-Knox County LOCATION MAP Subdivision Regulations except as has been itemized and described in a report filed with the Metropolitan Planning Commission. Registered Ergineer Aven P. Swinling RGC&/ 11/22/2021 ROBERT G. CAMPBELL & ASSOCIATES , L.P. KNOXVILLE / KNOX COUNTY PLANNING **CONSULTING ENGINEERS** KNOXVILLE, TENNESSEE FILE NUMBER: 12-SE-21-C









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Plan		<b>DEVELOPMENT</b> Development Plan	SUB	DIVISION	ZONING	
Plan	nina	□ Planned Development		oncept Plan inal Plat	Plan Amendmen	
KNOXVILLE   KN		Use on Review / Specia	l Use	inal Plat		
	IOX COUNTY	□ Hillside Protection COA			□ Rezoning	
Steve Maddox	ĸ			Princ	inal	
Applicant Name				Affiliati		
10/25/2021		12/9/2021				
Date Filed		Meeting Date (if applicat	ble)	12-SI	File Number(s	
CORRESPOND	DENCE	All correspondence related to this app	lication should be	directed to the an	proved contact listed below	
Applicant		Option Holder 🛛 Project Surveyor				
Jason Siverling			0	Architect/Lands		
Name				mpbell, and Ass	sociates	
7523 Taggart L	ane		Company Knoxville			
Address			City	TN	37938	
865-947-5996		JasonS@RGC-A.COM		State	ZIP	
Phone		Email				
CURRENT PRO	PERTY INFO				3	
Steve Maddox a	and others I	40-75 Business Park, LLC 100 Dalton Pla	ace Way		865-522-9910	
Owner Name (if dif	ferent)	Owner Address			Owner Phone	
13115 & 0 Ever	ett-Rd; 0 Eve	erett Rd; 13206 & 0 Buttermilk	Rd 141-02		and a second s	
Property Address	amino Ln.		Parcel ID	0, 02802, 0280	5, 02806, 033, 03304	
West Knox		West K				
Sewer Provider		Water Pro			No	
STAFF USE ONL	Y		June		Septic (Y/N)	
General Location	erett Rd, nor	th side of El Camino Ln, sout sio	de of Buttermill	Rd Approx.	166 acres	
Serieral Location				Tract Size		
] City 🔳 County	6th	CB & RB	Vacar	it land		
	District	Zoning District	Existing	Land Use		
Northwest Coun	ty	GC, MDR, & HP		Planned	Growth	
lanning Sector		Sector Plan Land Use Classif	ication	Growth Po	licy Plan Designation	

December 2020

## **DEVELOPMENT REQUEST**

Development Plan	Use on Review / Special Use	Hillside Protection COA	Related City Permit Number(s)
Residential	Non-Residential		
Home Occupation (spe	cify)		
Other (specify)			

#### SUBDIVISION REQUEST

Prosperity Crossing	Related Rezoning File Number			
Proposed Subdivision N	lame		0	
	Combine Parcels	Divide Parcel	0	
Unit / Phase Number			Total Number of Lots Creat	ed

#### New road only Other (specify)

Attachments / Additional Requirements

# **ZONING REQUEST**

Zoning Change		Pending Plat File Number
	ed Zoning	
Plan Amendment Change	· · · · · · · · · · · · · · · · · · ·	
	Proposed Plan Designation(s)	
Proposed Density (units/acre	) Previous Rezoning Requests	

Other (specify)

#### STAFF USE ONLY

PLAT TYPE	Fee 1	Total
Staff Review Planning Commission	0107	
ATTACHMENTS		
🗌 Property Owners / Option Holders 🛛 🗌 Variance Request	Fee 2	\$500
ADDITIONAL REQUIREMENTS		
Design Plan Certification (Final Plat)		
Use on Review / Special Use (Concept Plan)	Fee 3	
Traffic Impact Study		
COA Checklist (Hillside Protection)		

AUTHOPIZATION By sign	ing below, I certify Lam the property owner, applicant	or the owners authorized representative.
TATMO	Steve Maddox	10-28-21
Applicant Signature	Please Print	Date

865-522-991D Phone Number

Email

Date

Smaddox @ maddox company.com Michael Reynolds

Staff Signature

**Please Print** 

10/28/2021 swm

Date