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TRANSMITTAL FORM



MINDEL SCOTT

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DATE	October 11, 2019	REF #	3637
RE:	Beulah Church Apartments		
	Karst Survey Report		

TO: To Whom It May Concern

THE FOLLOWING ITEMS ARE: ATTACHED SHIPPED UNDER SEPARATE COVER VIA _____

<input type="checkbox"/> PRINTS	<input type="checkbox"/> ORIGINALS	<input type="checkbox"/> SAMPLES	<input type="checkbox"/> BASE MAPS
<input type="checkbox"/> MYLARS	<input type="checkbox"/> COPIES	<input type="checkbox"/> CHANGE ORDERS	<input type="checkbox"/> CONTACT PRINTS
<input checked="" type="checkbox"/> DOCUMENTS	<input type="checkbox"/> COMPACT DISCS	<input type="checkbox"/> FIELD DATA	<input type="checkbox"/> PHOTO ENLARGEMENTS
<input type="checkbox"/> SPECIFICATIONS	<input type="checkbox"/> SHOP DRAWINGS	<input type="checkbox"/> _____	

ITEM	QUANT.	DATE	SUBMITTAL NUMBER	DESCRIPTION	DISP.
1	1	10/11/19	1	Karst Survey Report (below)	2,4
2	1	10/11/19	1	Aerial/Feature Location Map	2,4
3	1	10/11/19	1	KGS Karst Potential Map	2,4
4	1	10/11/19	1	LOJIC Map	2,4
5	1	10/11/19	1	Site Photos	2,4

** THE DISPOSITION OF EACH ITEM IS AS FOLLOWS:

1-FOR APPROVAL	7-APPROVED AS SUBMITTED	13- BORROWED ITEMS RETURNED
2-FOR YOUR USE / INFO	8-APPROVED AS NOTED	14- RETURN BY _____
3-FOR REVIEW & COMMENT	9-REVISE & RESUBMIT	15- _____
4-FOR APPROPRIATE ACTION	10-REJECTED	16- _____
5-FOR SIGNATURE & RETURN	11-NO EXCEPTIONS TAKEN	17- _____
6-AS REQUESTED	12-NOTE MARKINGS	18- _____

REMARKS: Mindel Scott engineer, Travis Brown, conducted online research to assess karst potential at the project site.
The Kentucky Geologic Map service online characterizes the site as being of medium karst potential with no mapped
sinkholes on the site or in the immediate vicinity. The engineer visited the site on 10/9/2019 to perform a visual
inspection. Upon walking the site the engineer's experience agrees with online mapping. One potential karstic
feature was encountered, which was a closed depression near a tree in the tree line along the east side of the existing
driveway. Closed depressions indicate an area which has an inability to drain on the surface, which forces infiltration.
Infiltration in areas of karst prone geology such as this site (Louisville Limestone) can often point to subsurface karst
features and sinkholes. Additionally, the soil subsidence of a closed depression indicates the supporting soil has consolidated
or been transported away from underneath that location, another sign of potential subsurface karst. It should be noted
that the densely vegetated condition of the site, with high weeds and grasses and thick undergrowth, significantly inhibited
the engineer's ability to see the ground well enough for proper inspection for much of the site. This site is considered medium
risk of encountering sinkholes and other karstic features during construction, and care should be taken during earthwork
and construction to notify the geotechnical consultant if and when any suspected sinkholes are encountered and to
remediate them properly.

COPIES TO _____

Thank you,

 Travis Brown, EIT

SENT BY _____

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19 - ZONE - 0078



Kentucky Geologic Map Information Service

[KGS Home](#) > [Maps, Pubs. & Data](#) > [Geologic Map Service](#)

University of Kentucky
Kentucky Geological Survey

[Feedback](#) | [Tutorials](#) | [About This Service](#) | [Geologic maps: a citizen's guide \(pdf: 25 MB\)](#) | [Wha](#)

Tools Query Legend Layers Geologic Info

Print Legend (opens in a new window)

Karst Potential Units

	very high
	high
	medium
	low
	non-karst

Symbols

map symbols

Symbols are updated as layers are turned on/off and as they become visible by zooming in/out.

KGS LiDAR-derived Sinkholes

LiDAR Sinkholes



KGS Sinkholes

Kentucky Sinkhole Outlines



Sinkhole

KGS Geology

24K Geologic Faults

..... fault - concealed

— fault

— fault - inferred

==== fault - scarp

— fault - secondary

24K Geologic Contacts

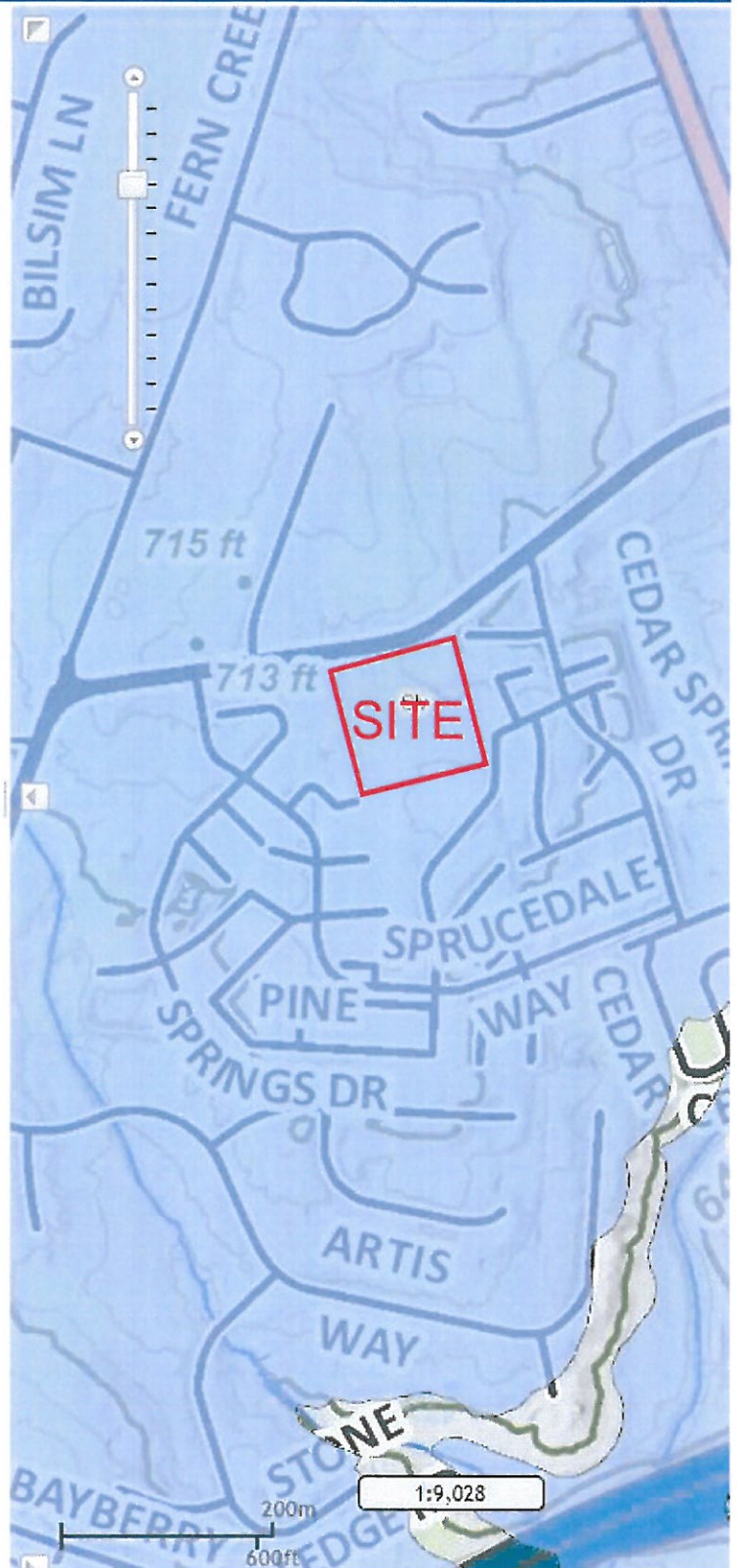
— geologic contact

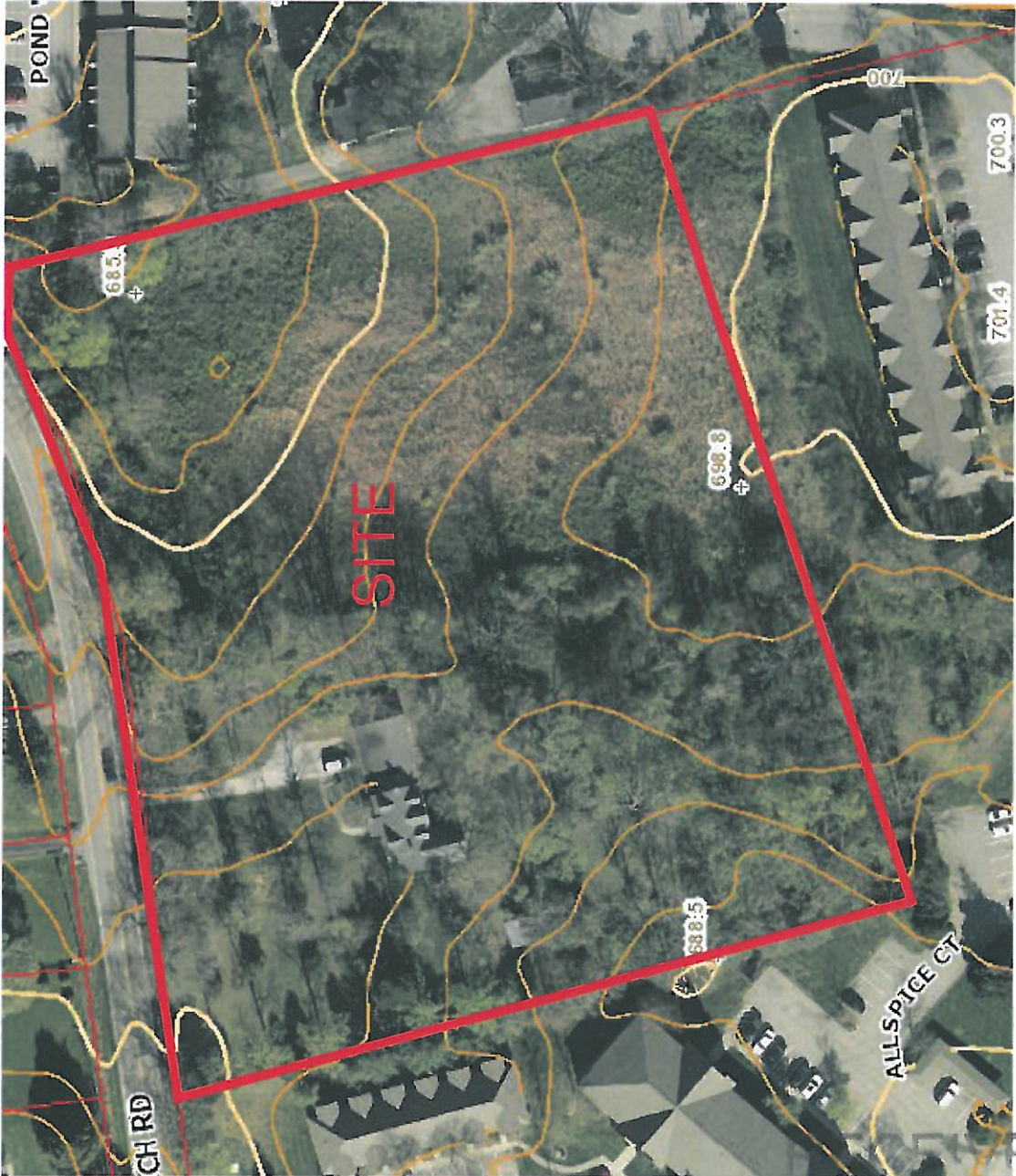
..... contact - concealed

..... contact - secondary

..... contact - arbitrary

— stratigraphic datum shift





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Photo 1: High weeds and grasses with dense undergrowth

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Photo 2: Closed depression near tree just east of driveway

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