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ENGINEERED FOR LOUISVILLE.

TRANSMITTAL FORM



**MINDEL SCOTT**

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DATE	<b>December 21, 2020</b>	REF.#	<b>3730</b>
RE:			
<b>Karst Survey</b>			
<b>KJs Multi-Family Development</b>			

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	12/21/20	1	Site Photos (in folder)	2
2	1	12/21/20	1	KGS - Karst Potential Mapping	2
3	1	12/21/20	1	Aerial Photo/Feature Location Plan	2
4	1	12/21/20	1	Lojic Aerial w/ contours	2

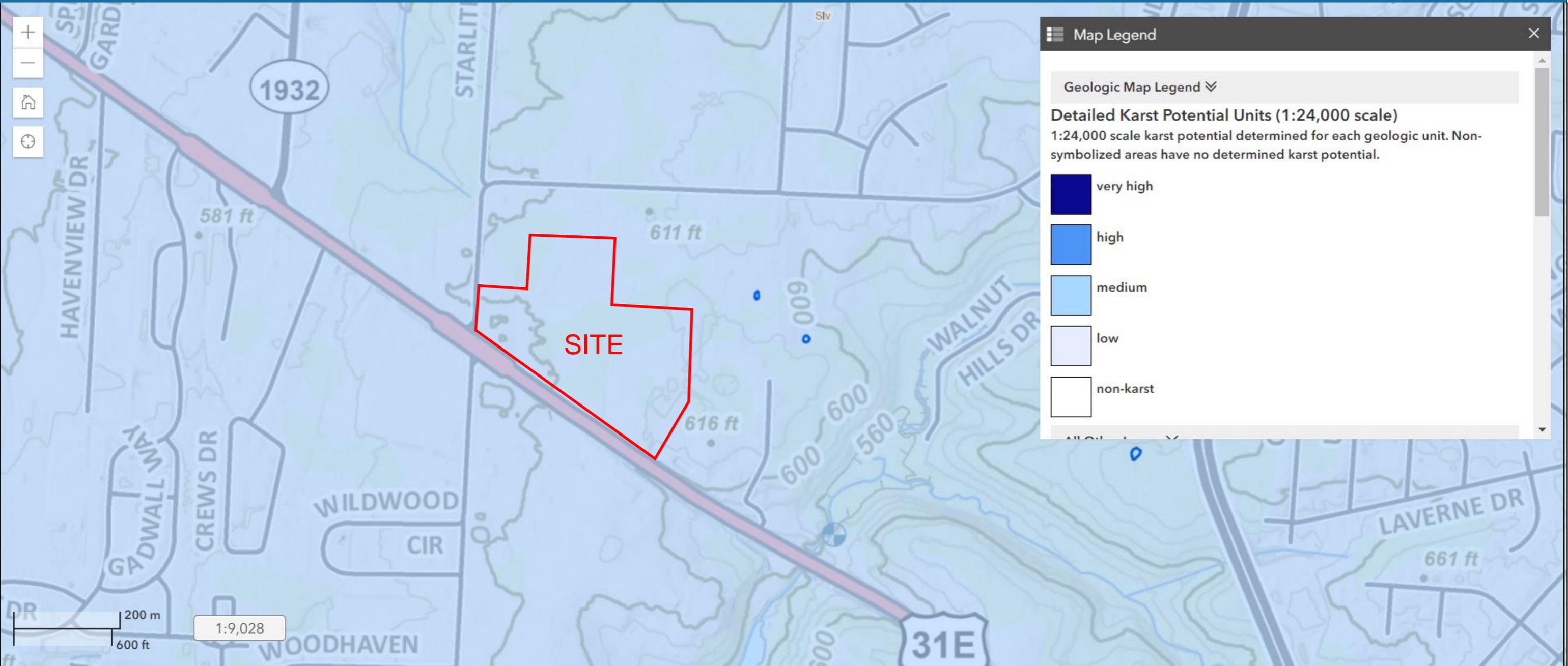
\*\* THE DISPOSITION OF EACH ITEM IS AS FOLLOWS:

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: The site was researched and inspected by Mindel Scott engineer, Travis Brown, via public online mapping and a site walk  
reconnaissance performed on 12/21/2020. Online mapping shows the subject site to be of medium karst potential with multiple mapped  
lidar sinkholes in the project vicinity. The geology of the site is Louisville Limestone, which is prone to dissolution via groundwater and  
therefore the existence and development of karstic features and sinkholes. Upon walking the site and inspecting for karstic features and  
indications thereof, the engineer encountered several instances of potential sinkholes or karst activity. The most significant of which are  
shown on the attached feature location map. The site is very flat and not well drained. During the walk the engineer noted many  
instances of ponding and stagnant swampy areas. This is an indication that much of the rain water that falls on the site does not leave the  
site by way of natural or engineered drainage channels. Instead the water slows down and infiltrates in low spots. Over time in those low  
spots, in geology such as Louisville Limestone, that water can dissolve the bedrock below, and lead to the formation of sinkholes and  
other karst features. As such these low areas and closed/open depressions need to be treated with care. Some of the depressions noted on  
the feature location map could be caused by old tree falls, bush removals, etc., however given the geology none can be ruled out as  
possible sinkhole locations. Care should be taken during construction to proofroll suspect areas and fill areas before fill is placed, and the  
geotechnical consultant should be contacted for remediation guidance should any possible sinkholes or other karstic features be encountered.

COPIES TO: \_\_\_\_\_

Thank you,  
\_\_\_\_\_  
SENT BY: Travis Brown, PE  
\_\_\_\_\_



**Map Legend** [Close]

Geologic Map Legend ▾

**Detailed Karst Potential Units (1:24,000 scale)**  
1:24,000 scale karst potential determined for each geologic unit. Non-symbolized areas have no determined karst potential.

	very high
	high
	medium
	low
	non-karst



- LEGEND**
- 1 - CLOSED DEPRESSION
  - 2 - CLOSED DEPRESSION
  - 3 - CLOSED DEPRESSION
  - 4 - CLOSED DEPRESSION
  - 5 - CLOSED DEPRESSION
  - 6 - OPEN DEPRESSION
  - 7 - OPEN DEPRESSION
  - 8 - CLOSED DEPRESSION
  - 9 - CLOSED DEPRESSION



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