

**LEGEND**

WATERSHED DELINEATION	
NEW AREA OF DISTURBANCE	
EXISTING SUBSTATION AREA	
EXISTING WATER WAY	
PROPOSED SUBSTATION FENCE	
PROPOSED PAD EXTENTS	

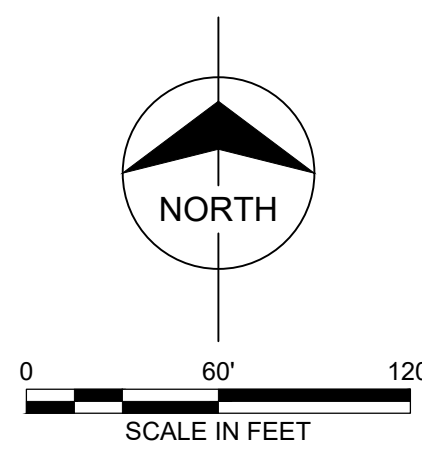
10% RULE AREA OF DISTURBANCE	
	154.87
NEW AREA TO BE DISTURBED (ACRES)	3.99
EXISTING STATION AREA (ACRES)	1.89
30% OF EXISTING STATION AREA (ACRES)	0.57
AREA OF DISTURBANCE INCLUDING 30% OF EXISTING (ACRES)	4.56
PERCENT OF TOTAL WATERSHED AREA DISTURBED INCLUDING THE 30% OF THE EXISTING DISTURBANCE	2.94%

no.	date	by	ckd	description

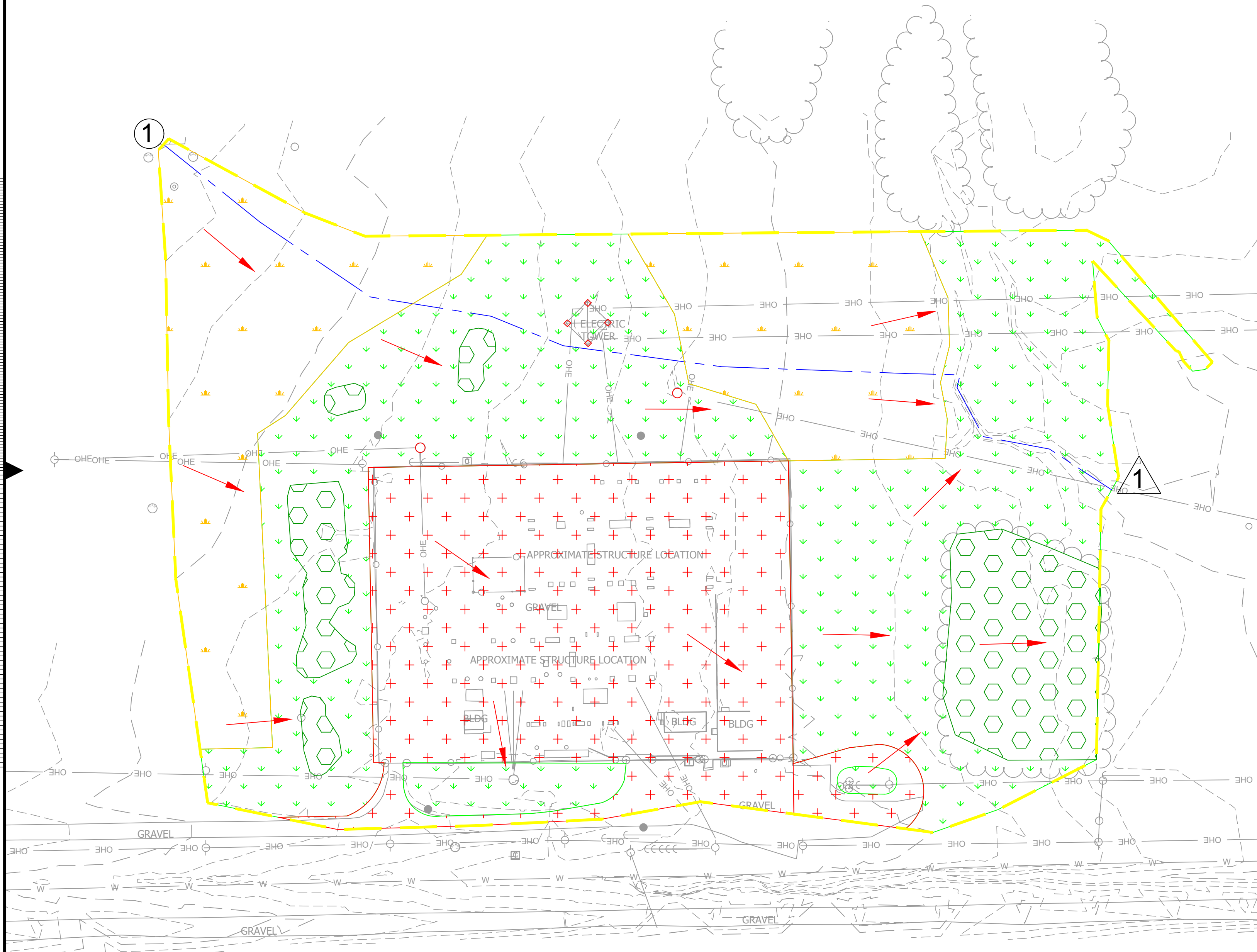
**BURNS  
MCDONNELL**  
 9400 WARD PARKWAY  
 KANSAS CITY, MO 64114  
 816-333-9400  
 Burns & McDonnell Engineering Co., Inc.

date	9/12/2024	detailed	AEM
designed	AEM	checked	JBB

CITY OF WICHITA, KANSAS			
DRAINAGE AREA MAP			
NORTHEAST SUBSTATION EVERGY			
project	161636	contract	-
drawing		rev.	
sheet	1	of	1
file		sheets	



Scale For Microfitting  
Millimeters  
Inches



**LEGEND**

WATERSHED DELINEATION: — — — — —

WATERSHED ID: ①

FINAL OUTLET: △ 1

TIME OF CONCENTRATION: - - - - -

GRASS COVER, GOOD: [Green area with downward arrows]

IMPERVIOUS: [Red area with plus signs]

SR CROPS, GOOD: [Yellow area with crown symbols]

WOODS, GOOD: [Green area with hexagonal patterns]

PROPERTY LINE: — P —

FLOW PATH: →

**WATER SHED LAND COVERAGE AREA AND TIME OF CONCENTRATIONS**

LAND COVER	CURVE NUMBER	PRE-1 (AC)
GRASS COVER, GOOD, HSG D	80	3.380
IMPERVIOUS	98	2.198
SR CROPS, GOOD, HSG D	89	1.997
WOODS, GOOD, HSG D	77	0.689
TOTAL AREA	87	8.264
TIME OF CONCENTRATION (MIN)	-	18.9

**PRE-DEVELOPED PEAK FLOW**

STORM EVENT	COMBINED OUTFLOW (CFS)
2-YR, 24-HR	19.57
5-YR, 24-HR	26.54
10-YR, 24 HR	33.02
25-YR, 24-HR	42.82
100-YR, 24-HR	59.68

no. | date | by | ckd | description

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CITY OF WICHITA, KANSAS

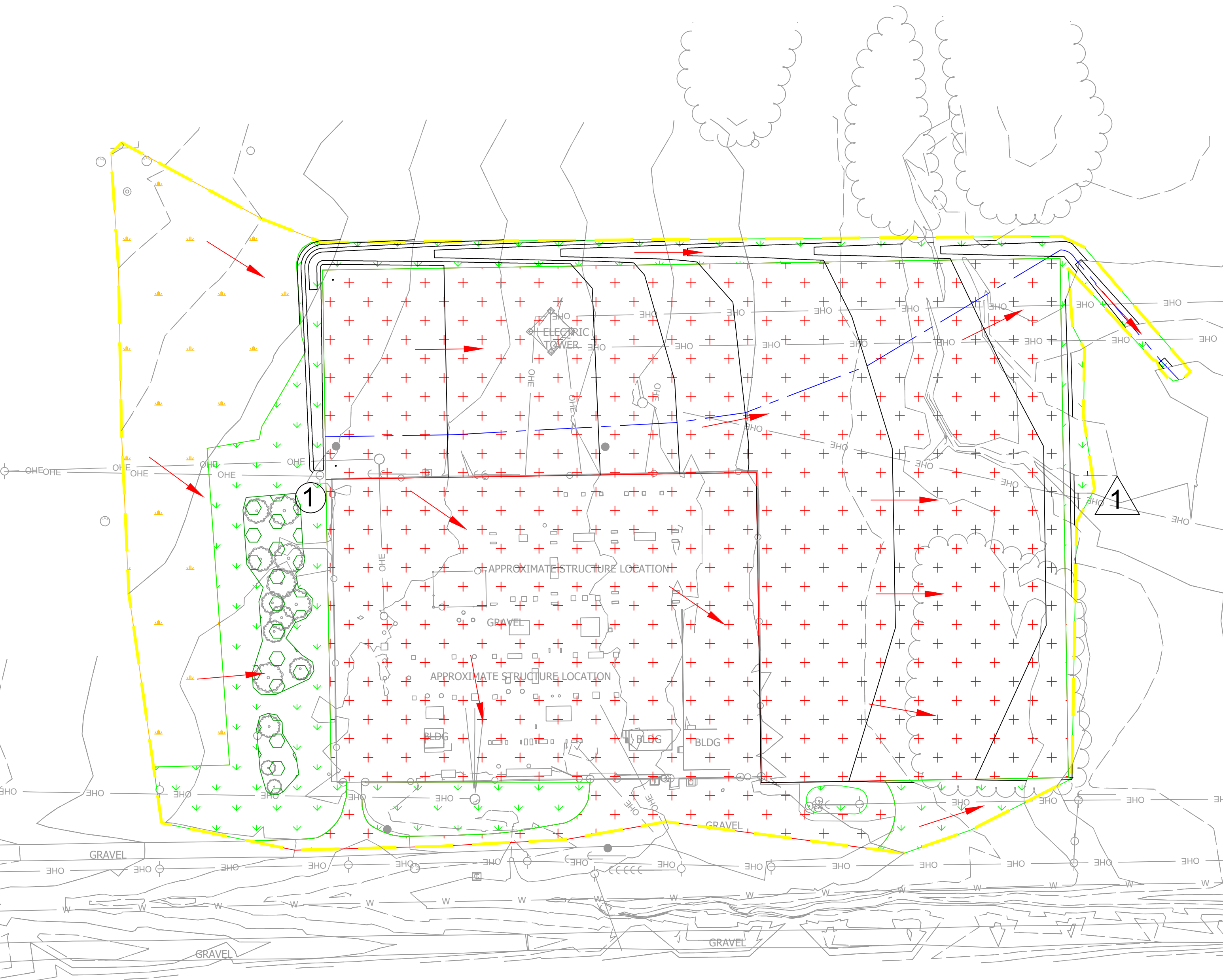
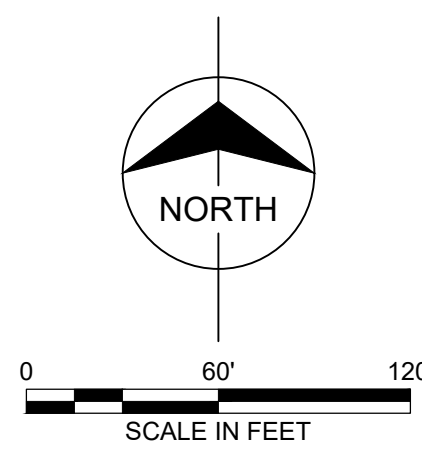
**PRE-DEVELOPED WATERSHED MAP**

NORTHEAST SUBSTATION  
EVERGY

project	161636	contract	-
drawing		rev.	

**EXHIBIT A— A**

sheet	1	of	2	sheets
file	-			



**LEGEND**

- WATERSHED DELINEATION
- WATERSHED ID 1
- FINAL OUTLET 1
- TIME OF CONCENTRATION
- GRASS COVER, GOOD
- IMPERVIOUS
- SR CROPS, GOOD
- WOODS, GOOD
- PROPERTY LINE PL
- FLOW ARROW

WATER SHED LAND COVERAGE AREA AND TIME OF CONCENTRATIONS		
LAND COVER	CURVE NUMBER	POST-1 (AC)
GRASS COVER, GOOD, HSG D	80	1.321
IMPERVIOUS	98	5.745
SR CROPS, GOOD, HSG D	89	1.027
WOODS, GOOD, HSG D	77	0.171
TOTAL AREA	94	8.264
TIME OF CONCENTRATION (MIN)	-	16.7

POST-DEVELOPED PEAK FLOW	
STORM EVENT	COMBINED OUTFLOW (CFS)
2-YR, 24-HR	27.85
5-YR, 24-HR	35.30
10-YR, 24 HR	42.09
25-YR, 24-HR	52.24
100-YR, 24-HR	69.64

no. | date | by | ckd | description

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CITY OF WICHITA, KANSAS  
**POST-DEVELOPED WATERSHED MAP**  
 NORTHEAST SUBSTATION  
 EVERGY  
 project 161636 | contract -  
 drawing **EXHIBIT B-** | rev. **A**  
 sheet 2 of 2 sheets  
 file -