

**PARSONS**

# Consolidated Mitigation Plan Addendum 1

**Outer Loop Recycling & Disposal Facility**

**December 2016**



delivering a better world

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# Consolidated Mitigation Plan Addendum 1

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Waste Management of Kentucky, LLC (WMK) owns and operates the Outer Loop Recycling & Disposal Facility (Outer Loop RDF) in Louisville, Kentucky. WMK was issued a U.S. Army Corps of Engineers (USACE) Section 404 permit (Permit No. 200301197) on March 18, 2008 and a Kentucky Division of Water (KDOW) Water Quality Certification (WQC) on October 19, 2007 (DOW WQC# 2007-0046-2) authorizing WMK to fill 66 acres of wetlands and relocate 1,600 linear feet of Wet Woods Creek in order to expand the landfill. Special Condition #1 of the USACE permit required that WMK prepare a Consolidated Mitigation Plan (CMP) for approval by the USACE Louisville District. The CMP was prepared and submitted to the USACE in June 2008. On September 21, 2016, a modification to the permit was approved by the USACE. The modification allows a change to how impacts to existing wetlands on-site are to be mitigated and summarizes revisions to the phasing plans for construction of the landfill expansion, denoted as Unit 8. As part of the approved permit modification, the USACE required that the 2008 CMP be updated to show the current construction timeline, anticipated wetland impacts, wetland mitigation release schedule, and associated figures and tables. This addendum fulfills this requirement. Since this report is an addendum to the 2008 CMP, only those items that have changed since the original 2008 submittal are addressed. Copies of agency correspondence concerning this CMP are included in Attachment A.

## 1.0 Wetland Permits

### 1.1 2003 PERMIT AND ASSOCIATED MITIGATION

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Historically, WMK has conducted several phases of wetland mitigation both on- and off-site from 1993 – 2009 to mitigate for impacts to approximately 190 acres of wetlands at the landfill. To comply with the requirements contained in Department of Army Permit Number 199000605 (May 19, 1993) and Kentucky Division of Water (KDOW) Water Quality Certification (WQC) dated January 27, 1993, over 463 acres of mitigation wetlands were created. 314 acres of wetlands were restored at two contiguous sites in Nelson County, Kentucky (these sites were deeded over to the state of Kentucky Division of Fish and Wildlife in 2001 and are now managed as a State Wildlife Management Area) and 149.36 acres were restored at three separate sites in Jefferson County (Swartz Property, On-Site East and On-Site West). In 2002, the 20.4 acres of wetlands created at the Swartz Property were deemed a success and released by the USACE, while the remaining 128.96 acres of created wetlands at the two on-site locations were deemed successful and released from further monitoring in 2009. While all required mitigation has been completed by WMK in association with the 1993 permit, 20.36 acres permitted to take in the Northeast Woods have still not been impacted by WMK. As explained in Section 3.1, per Special Condition #5 of the 2008 permit, 8.8 acres of these wetlands in the Northeast Woods must be preserved until a proportionate amount of mitigation wetlands have been created and released at an off-site property.

### 1.2 2008 (CURRENT) PERMIT

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In 2008, WMK received Department of Army Permit Number 200301197 allowing for unavoidable impacts to 44 acres of naturally occurring site wetlands and 22 acres of mitigation wetlands on-site that were created per the 2003 permit. In addition, WMK was permitted to impact 1,600 linear feet of Wet Woods Creek. To mitigate for these impacts, WMK originally planned to create, restore and preserve wetlands on- and off-site at the Snider Property as follows:

On-Site:

- Restoration of 2.83 acres of forested wetlands (Unit 3 Wetlands)
- Preservation of 13.14 acres of existing wetlands (Wetlands D, Unit 7, and Northeast Woods)

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Off-Site (Snider):

- Creation of 69.95 acres of forested wetlands
- Preservation of 8.28 acres of forested wetlands
- Restoration of 0.62 acres of existing wetlands
- Preservation of upland buffer of 11.18 acres

Since the 2008 CMP was submitted, WMK has had to make changes to the sequencing of the phases of the Unit 8 solid waste disposal cells and to the new alignment for the relocation of LG&E’s gas and electric transmission lines resulting in changes to how the mitigation for these impacts will be conducted.

**2.0 Completed Mitigation Under the 2008 Permit**

As of November 1, 2016, WMK has restored the 2.83-acre Unit 3 mitigation wetlands on-site and has completed construction of an additional 10.93 acres of mitigation wetlands at the Snider Property. The phasing of the construction of these mitigation areas is shown in the table below.

**TABLE 1  
COMPLETED MITIGATION AREAS**

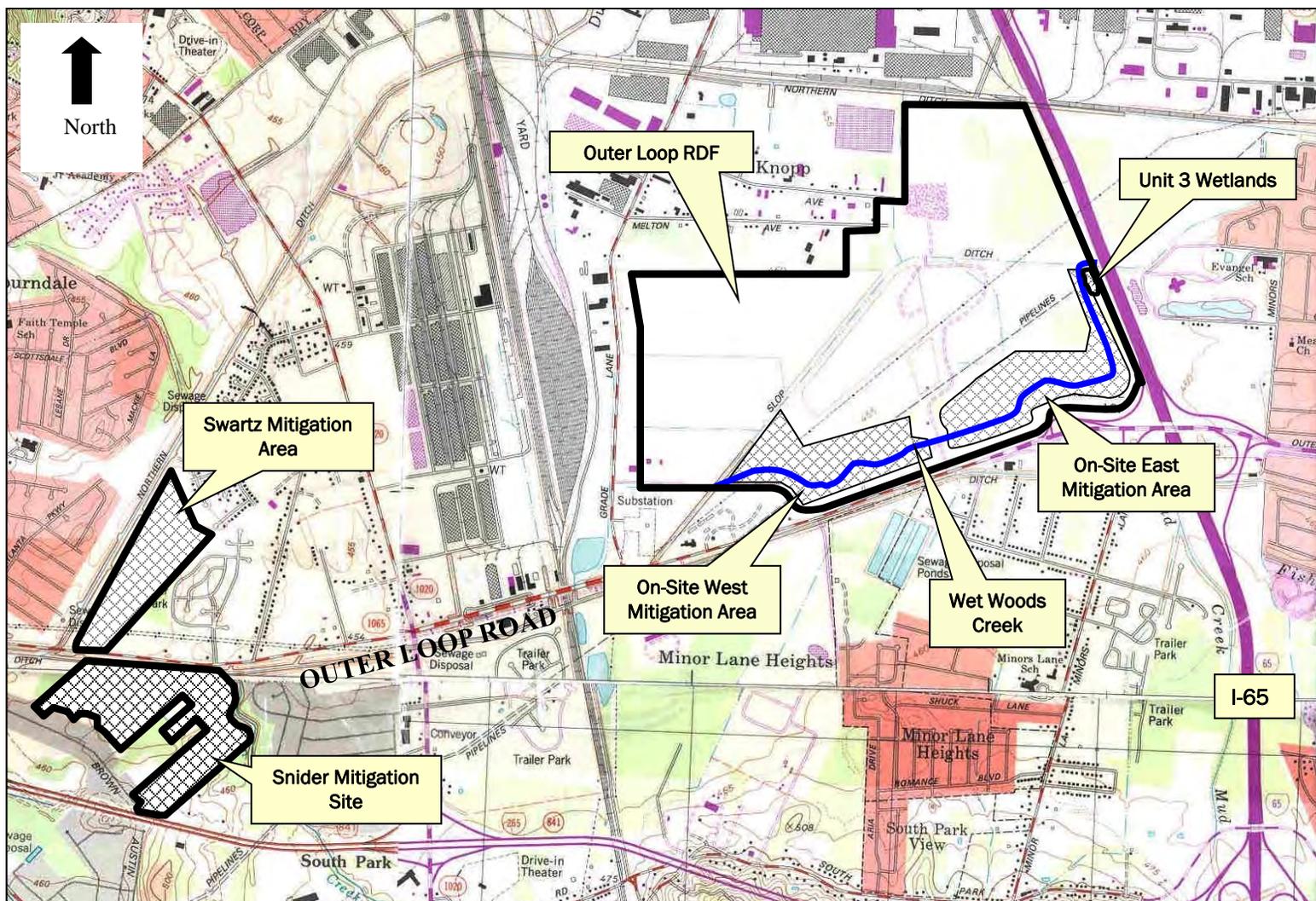
YEAR	ACRES OF WETLANDS CREATED	WETLAND AREA CREATED
2012	2.83	Unit 3 Wetlands (On-site)
2013	2.02	Snider Phase 1A
2014	2.21	Snider Phase 1B
2015	2.98	Snider Phase 1C
2016	3.72	Snider Phase 1D
Totals:	13.76	

Construction and excavation of Snider Phase 1E, consisting of 2.46 acres, was completed in the summer of 2016, with tree planting to occur in 2017. In addition, 1.39 acres of riparian buffer has also been preserved along the western bank of Wilson Creek at the Snider Property. Mitigation locations are shown on Figure 1.

The Unit 3 mitigation wetlands were deemed a success and released from monitoring by the USACE on March 18, 2016. The mitigation wetlands at the Snider property are still in various stages of a 5-year monitoring program to ensure the areas meet the required success criteria established in the 2008 permit.

**3.0 Description of Current Wetland Impacts**

As mentioned above, the proposed phased development for expansion of the landfill has changed slightly since the permit was granted by the USACE in 2008. In 2008, it was anticipated that the phased expansion of the landfill would be completed in eight sequential phases starting with Phase I in the western portion of the site and ending with Phase VIII in the northeast portion of the facility (Figure 2). While eight phases of development are still planned for the landfill, impacts to the southwestern portion of the facility (Phase IV), which houses the hauling operations associated with the landfill, will be delayed as one of the last remaining phased areas of development. Thus, the schedule for the relocation of the LG&E gas and electric transmission lines has been accelerated, which is necessary to develop Phases V through VII of the landfill expansion. Thus, on September 21, 2016, a modification to the permit was approved by the USACE allowing for a change in the timing of impacts to wetlands on-site and the proposed mitigation for these impacts at the Snider Property. These changes are discussed in the following subsections.



WASTE MANAGEMENT OF KENTUCKY  
OUTER LOOP RECYCLING & DISPOSAL FACILITY  
LOUISVILLE, KENTUCKY

Figure 1 - Mitigation Site Locations

Source: USGS topographical quadrangles for Louisville East, Louisville West, Brooks and Valley Station, Kentucky.

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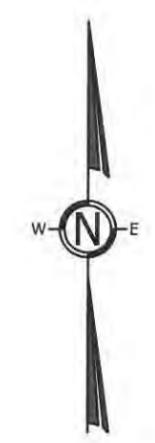
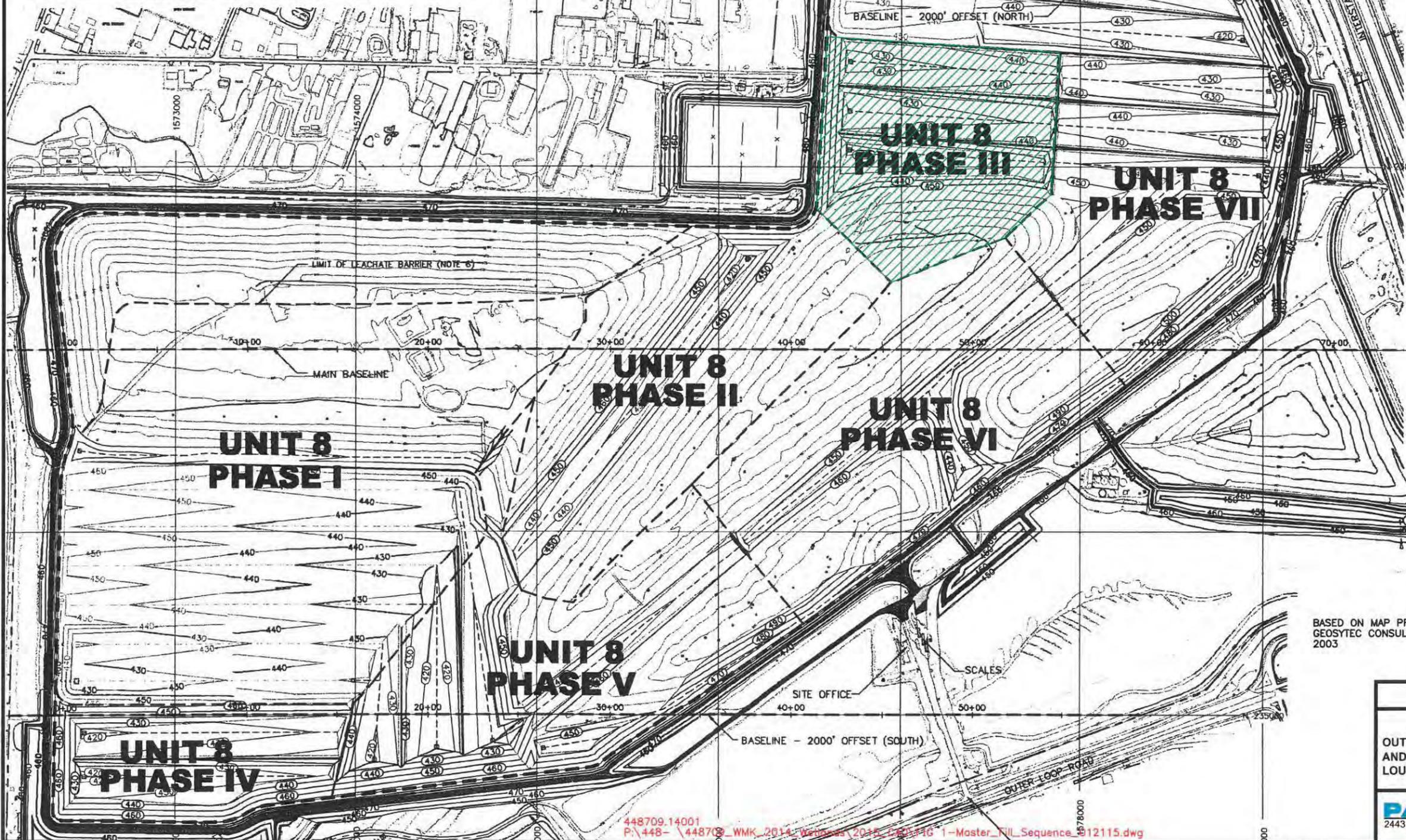
2443 CROWNE POINT DRIVE CINCINNATI, OHIO 45241 PHOINE 513-326-30340

**LEGEND**

- 480 — EXISTING GROUND 10' CONTOUR ELEVATION, FEET (MSL)
- — — — — PROPERTY BOUNDARY
- — — — — EXISTING FENCE LINE
- — — — — EXISTING ROAD
- — — — — EXISTING WATER LINE
- — — — — EXISTING TREE LINE
- — — — — EXISTING BUILDING
- 440 — — EXISTING TOP OF LINER ELEVATION FOR LINED UNITS
- (440) — — TOP OF CLAY LINER 10' CONTOURS, FEET (MSL)
- LEACHATE COLLECTION SUMP
- — — — — LEACHATE COLLECTION CORRIDOR
- — — — — PERIMETER ACCESS ROAD
- — — — — UNIT B EXPANSION WASTE BOUNDARY (LIMIT OF WASTE)
- — — — — APPROXIMATE PHASE BOUNDARIES ON BASE (LINER)

U.S. ARMY CORPS OF ENGINEERS MELCO DETENTION BASIN PROJECT  
N 240000

- NOTES:**
1. THE PURPOSE OF THIS DRAWING IS TO SHOW THE OVERALL PHASING SEQUENCE OF THE EXPANSION DEVELOPMENT. THE CONFIGURATION OF EACH PHASE AS IT REACHES COMPLETION IS PRESENTED ON THE FOLLOWING DEVELOPMENT SEQUENCE DRAWINGS. LINER GRADES ARE SHOWN ON THIS DRAWING BECAUSE PHASE BOUNDARIES GENERALLY CORRESPOND WITH BOUNDARIES WITHIN THE LINER GRADING PLAN. EXISTING GROUND SHOWN WITHIN THE UNIT 8 FOOTPRINT REPRESENT AREAS THAT WILL RECEIVE A LEACHATE BARRIER.
  2. THE LANDFILL EXPANSION AREAS ARE DESIGNATED AS FOLLOWS:
    - THE COMBINED LATERAL AND VERTICAL EXPANSION WASTE BOUNDARY IS DESIGNATED AS UNIT 8.
    - UNIT 8 IS DIVIDED INTO 8 PHASES (PHASES I THROUGH VIII)
    - EACH PHASE IS COMPRISED OF SEVERAL LANDFILL CELLS, WHICH ARE IDENTIFIED (NUMBERED) ON THE TOP OF CLAY LINER DRAWINGS NO. 6 THROUGH 12 OF THIS DRAWING SET. UNIT 8 IS TO BE DEVELOPED IN SEQUENTIAL ORDER OF PHASES, AND THE PHASES WILL BE DEVELOPED IN ALPHABETICAL ORDER OF PHASES.
    - INDIVIDUAL CELLS MAY BE FURTHER SUBDIVIDED INTO PORTIONS THAT ARE MORE MANAGEABLE IN SIZE (E.G., FOR MANAGEABLE WASTE PLACEMENT OPERATIONS, SURFACE WATER CONTROL, ETC.).
    - SLIGHT MODIFICATIONS TO THE SEQUENCE WITHIN EACH PHASE MAY BE MADE IN THE FIELD BASED ON A COMBINATION OF FIELD MONITORING, ENGINEERING CALCULATIONS, AND OPERATIONAL NEEDS.
  3. TOPOGRAPHIC MAP OF EXISTING CONDITIONS COMPILED USING PHOTOGRAMMETRIC METHODS BY AERO-METRIC, INC., SHEBOYGAN, WISCONSIN, BASED ON 10 MARCH 2003 AERIAL FLYOVER.
  4. ON-SITE BORROW SOURCES FOR LANDFILL DEVELOPMENT INCLUDE THE FOLLOWING:
    - ALL AREAS EXCAVATED FOR UNIT 8 CELL CONSTRUCTION,
    - COVER SOIL STRIPPED FROM EXISTING UNITS 2, 3, 4, AND 6 PRIOR TO INSTALLATION OF LEACHATE BARRIERS;
    - AREAS EXCAVATED FOR SEDIMENT BASIN CONSTRUCTION; AND
    - EXISTING ON-SITE SOIL STOCKPILES EXCAVATED TO EXISTING GROUND.
  5. EROSION AND SEDIMENT CONTROL AND CONSTRUCTION OF PERIMETER SITE FEATURES (E.G., LEACHATE TRANSMISSION SYSTEM, PERIMETER BERM, SEDIMENTATION BASINS, ETC.) WILL OCCUR IN STAGES BASED ON WHEN THEIR FUNCTION IS NECESSARY.
  6. NO MSW IS TO BE PLACED ON THE NORTH SIDESLOPE OF EXISTING UNIT 4. THEREFORE, THE LEACHATE BARRIER IS ONLY TO EXTEND TO THE CREST OF EXISTING UNIT 4.



BASED ON MAP PROVIDED BY GEOSYTEC CONSULTANTS, INC. 2003

**SCALE: 1" = 600'**

0 300' 600' 1200'

<b>WASTE MANAGEMENT OF KENTUCKY</b>	
<b>FIGURE 1</b>	
<b>OUTER LOOP RECYCLING AND DISPOSAL FACILITY LOUISVILLE, KENTUCKY</b>	<b>MASTER FILL SEQUENCE</b>
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241, PHONE: 513-326-3040	

448709.14001  
P:\448-448709\_WMK\_2014\_Works\2014\_05\_16\_1-Master\_Fill\_Sequence\_012115.dwg

### **3.1 2015 – 2016 WETLAND IMPACTS**

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Per Special Condition #5 of the 2008 permit, WMK was permitted to impact 7.45-acres (Area “5a”, Figure 3) of wetlands on-site prior to having a proportionate amount of wetlands at the Snider mitigation site released by the USACE. On November 24, 2015, the USACE approved a modification to Special Condition 5, allowing WMK to impact up to 8.8 acres of wetlands in Area 5 in order to allow WMK to fully utilize the solid waste footprint, improve stormwater management during cell construction and construct an access road to the compost facility used by the public. The USACE approval included the same condition as was in the original 2008 permit, specifically, that impacts to an equal amount of wetlands in the Northeast Woods that were previously authorized to take under the 1993 permit would not be impacted until a proportionate amount of wetlands at the Snider mitigation site have met minimal success criteria and been released from monitoring. Thus, 8.8 acres of created mitigation wetlands at Snider are designated to be used as compensation for these “Special Condition 5” wetland impacts and must be accounted for first as part of the overall release process for the Snider Property. The impacts to the 8.8 acres wetlands in Area 5 occurred in March 2015 (the original 7.45 acres) and January and February 2016 (1.35 acres). The areas are shown on Figure 3.

In addition, from March 21 – 31, 2016, a total of 2.24 acres of wetlands on-site were impacted in order to facilitate the relocation of LG&E’s gas and electric transmission lines. Specifically, 1.95 acres of the Northeast Woods and the 0.29 acre “Wetland B” were cleared of vegetation. 2.24 acres of the recently released Unit 3 mitigation wetlands were used as compensation for these wetland impacts, per Special Condition 4 of the current permit and USACE letter of approval dated March 18, 2016. These areas are shown on Figure 4.

### **3.2 2017 PROJECTED WETLAND IMPACTS**

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In 2017, the anticipated on-site wetlands that will be impacted are all part of LG&E’s gas and electric transmission line relocations and include 8.07 acres of the On-Site West Mitigation wetlands, 0.16 acres of a change in wetland type within LG&E’s existing easement within the On-Site West wetlands and construction of a 1.83 acre sedimentation pond in the On-Site East mitigation wetlands (total of 10.06 acres). Each of these areas are shown on Figure 4.

### **3.2 2018 - 2020 PROJECTED WETLAND IMPACTS**

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In 2018, an additional 0.22 acres of wetlands will undergo a change in wetland type within LG&E’s existing easement in the Northeast Woods. Impacts to this 0.22 acre area will be the final impacts to wetlands associated with the relocation of LG&E’s gas and electric transmission lines. In addition, starting in 2020, WMK will impact 11.77 acres of the On-Site West mitigation wetlands as part of Phase V of the landfill expansion. These areas are also shown on Figure 4.

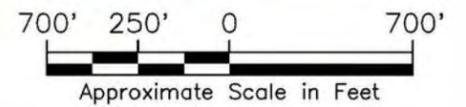
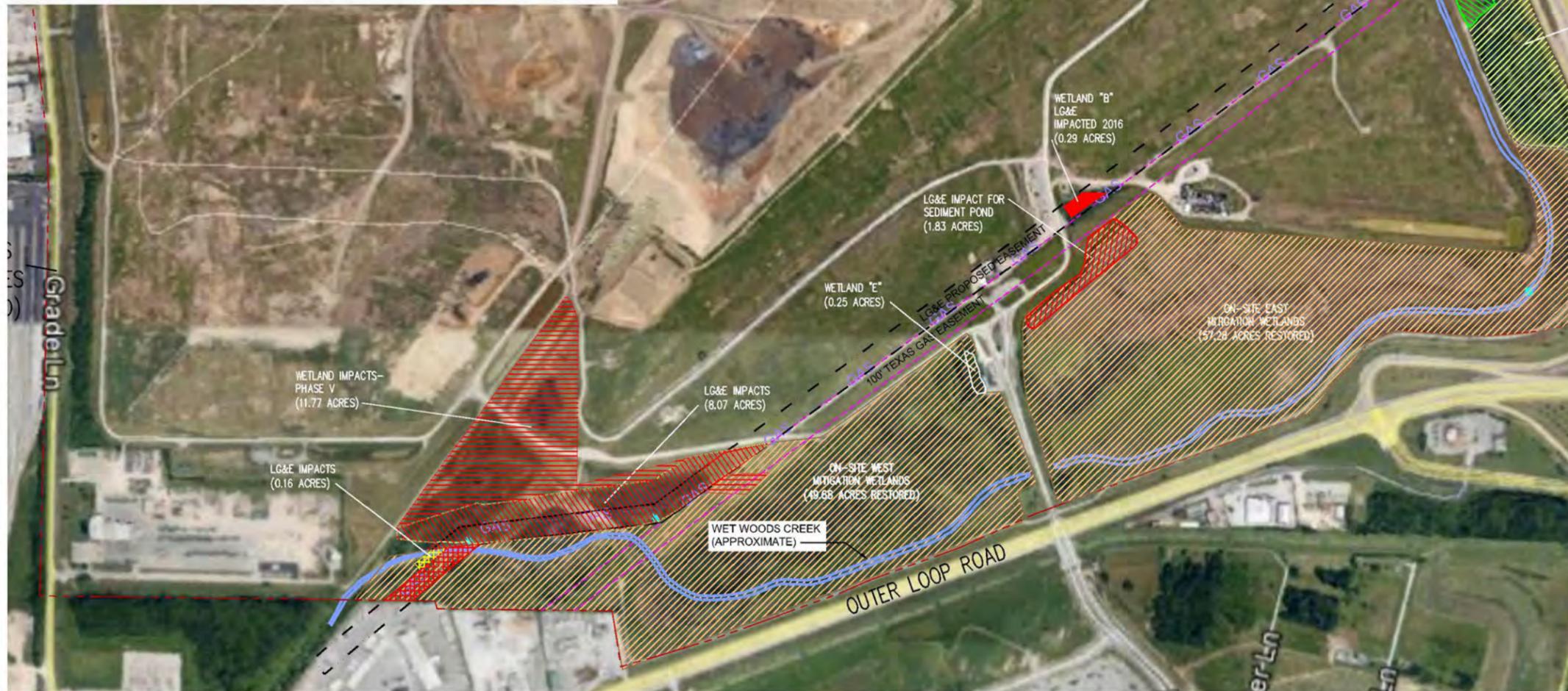
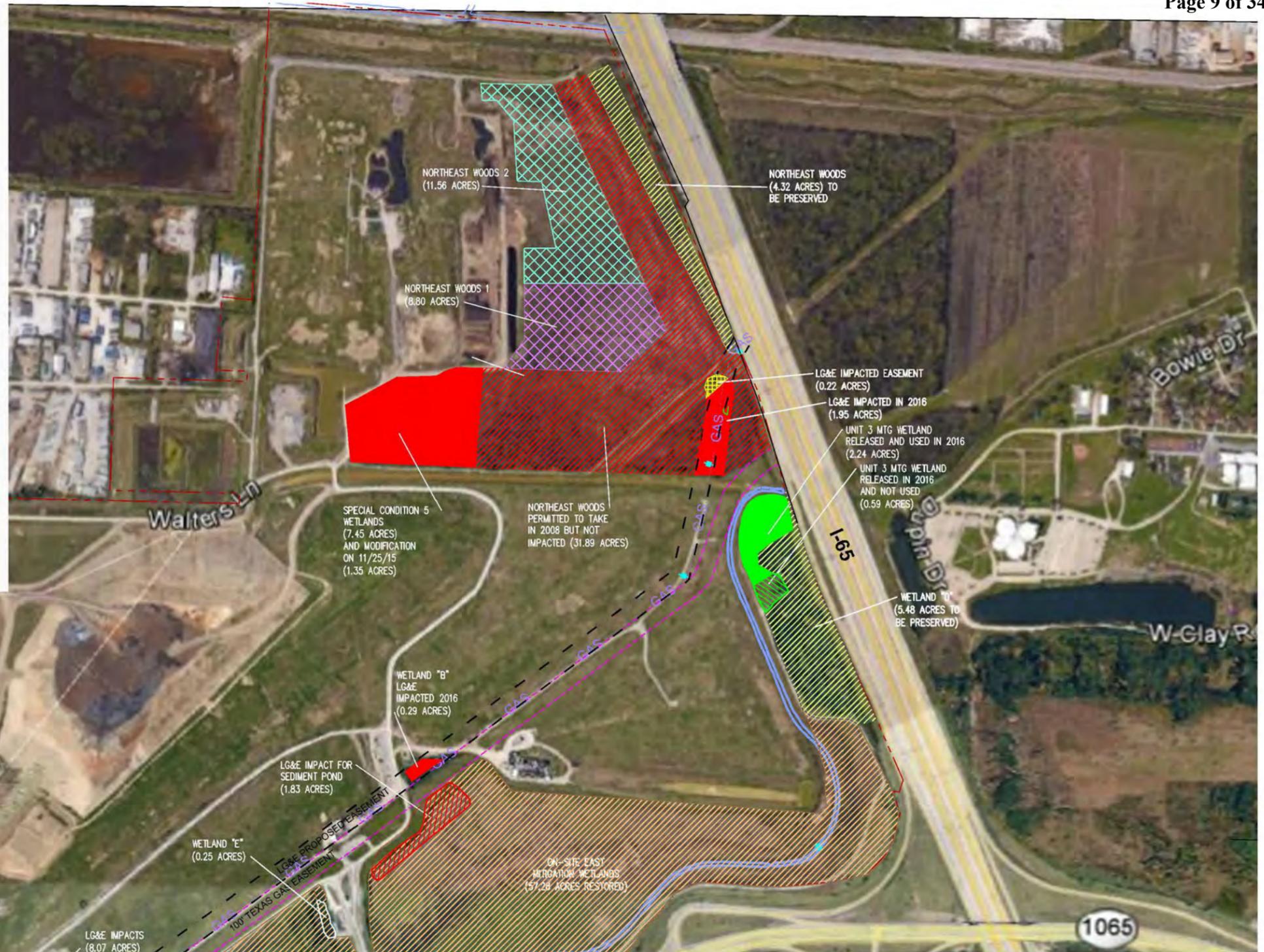
## **4.0 Mitigation for 2017 – 2020 Wetland Impacts**

WMK plans to use the remaining 0.59 acres of the Unit 3 wetlands and the mitigation areas constructed at the Snider Property as compensation for impacts to wetlands in 2017 through 2020 as shown Table 2. The permit and approved modifications also allow for buying mitigation credits at an approved mitigation bank or an approved in-lieu fee program with temporal loss at the current market value, for the amount of credits deficient at the Snider Mitigation site by December 31, 2028. Table 2 presents the anticipated phasing approach for the landfill expansion, the acres of wetlands projected to be impacted during each phase, and the acres of wetlands created/restored to compensate for impacts through the year 2030.





- LEGEND**
- PROPOSED LOUISVILLE GAS AND ELECTRIC (LG&E) UTILITIES EASEMENT
  - 100' TEXAS GAS EASEMENT
  - PROPERTY BOUNDARY
  - PRESERVED WETLANDS (ON-SITE)
  - 1993 MITIGATION WETLANDS (ON-SITE)
  - PROPOSED WETLANDS HABITAT CHANGE FOR LG&E (0.38 ACRES)
  - EASEMENT- NO CHANGE IN HABITAT TYPE
  - IMPACTED ON-SITE WETLANDS IN 2015 AND 2016 PER 2008 PERMIT AND 2015 MODIFICATION
  - UNIT 3 MITIGATION WETLAND RELEASED AND USED FOR COMPENSATION (2.24 ACRES) IN 2016
  - UNIT 3 MITIGATION WETLANDS RELEASED IN 2016 BUT NOT USED (0.59 ACRES)
  - NORTHEAST WOODS PERMITTED TO TAKE PER 2008 PERMIT BUT NOT IMPACTED YET (31.89 ACRES)
  - WETLANDS PERMITTED TO TAKE PER 2008 PERMIT AND PROJECTED TO TAKE IN 2020 FOR PHASE V (11.77 ACRES)
  - WETLANDS PERMITTED TO TAKE PER 2008 PERMIT FOR LG&E RELOCATION AND PROJECTED TO TAKE IN 2017 (9.9 ACRES)
  - NORTHEAST WOODS 1 PERMITTED TO TAKE IN 1993 BUT NOT TO BE IMPACTED UNTIL EQUAL ACREAGE RELEASED AT SNIDER (8.80 ACRES)
  - NORTHEAST WOODS 2 (PROPOSED) - PERMITTED TO TAKE IN 1993 BUT NOT TO BE IMPACTED UNTIL EQUAL ACREAGE RELEASED AT SNIDER (11.56 ACRES)
  - RELOCATED LG&E OVERHEAD ELECTRIC POLES



**WASTE MANAGEMENT OF KENTUCKY**

**FIGURE 1**

**OUTER LOOP RECYCLING AND DISPOSAL FACILITY LOUISVILLE, KENTUCKY**

**PROJECTED IMPACTS FOR LG&E AND PHASE V OF THE LANDFILL EXPANSION**

**PARSONS**  
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241, PHONE: 513-326-3040

Table 2  
Projected Wetland Impacts and Proposed Mitigation Through 2030  
Outer Loop Recycling Disposal Facility  
Louisville, Kentucky

Year	Mitigation Areas			Wetland Areas Impacted	Acres Impacted Breakdown	
		Acres Released or Anticipated Release	Acres Used or Anticipated To be Used			Mitigation Acres Available
2015	-	0	8.8	-8.8	Special Condition 5 Wetlands	8.8
2016	Unit 3	0.59	0	-8.21		
2017	Snider 1A	2.02			On-Site West (LG&E)	8.07
	Riparian Buffer - Wilson Creek	1.39	10.06	-14.86	West Easement (LG&E)	0.16
					On-Site East - Sed Pond (LG&E)	1.83
2018	Snider 1B	2.21	0.22	-12.87	NE Woods Easement (LG&E)	0.22
2019	Snider 1C	2.98	0	-9.89		
2020	Snider 1D	3.72	11.77	-17.94	On-Site West (Phase V)	11.77
2021	Snider 1E	2.46	0	-15.48		
2022	Snider 1F	2.3	0	-13.18		
2023	Snider 1G	2.4	0	-10.78		
2024	-		0	-10.78		
2025	Snider 2A	3	0	-7.78		
2026	Snider 2B	3	0	-4.78		
2027	Snider 2C	3	0	-1.78		
2028	Snider 2D	3	0	1.22		
2029	Snider 2E	3	0	4.22		
2030	-	0	0	4.22		
Totals:		35.07	30.85	4.22		30.85

**Notes:**

Areas correspond to those depicted on Figure 4 - "On-Site Wetland Impacts and Projected Impacts Through 2020".

Quantities are current as of October 28, 2016.

Special Condition 5 Wetlands were permitted to be impacted per Special Condition 5 in the 2008 permit and modification dated 11/24/15.

2.24 acres of the Unit 3 mitigation wetlands were used in 2016 to mitigate for 1.95 acres of the Northeast Woods and 0.29 acres of Wetland B for impacts due to relocation of the LG&E lines. These impacts and mitigation were authorized on 3/18/16 by the USACE.

Mitigation acreages for Snider 1A through Snider 1E are based on actual as-built surveys provided by LD&D and are based on surveyed quantities of topsoil area removed.

Mitigation acreages for Snider 1F through 1G and Snider 2A through 2E are estimated quantities based on current design drawings and not as-builts.

Northeast Woods-1 and Northeast Woods-2 (Figure 4) are not anticipated to be impacted before the year 2048 per current landfill expansion sequencing.

Riparian Buffer - Wilson Creek is the acreage preserved at the Snider Property between Wilson Creek and Phase 1A.

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## 5.0 Wetland Compensation Design

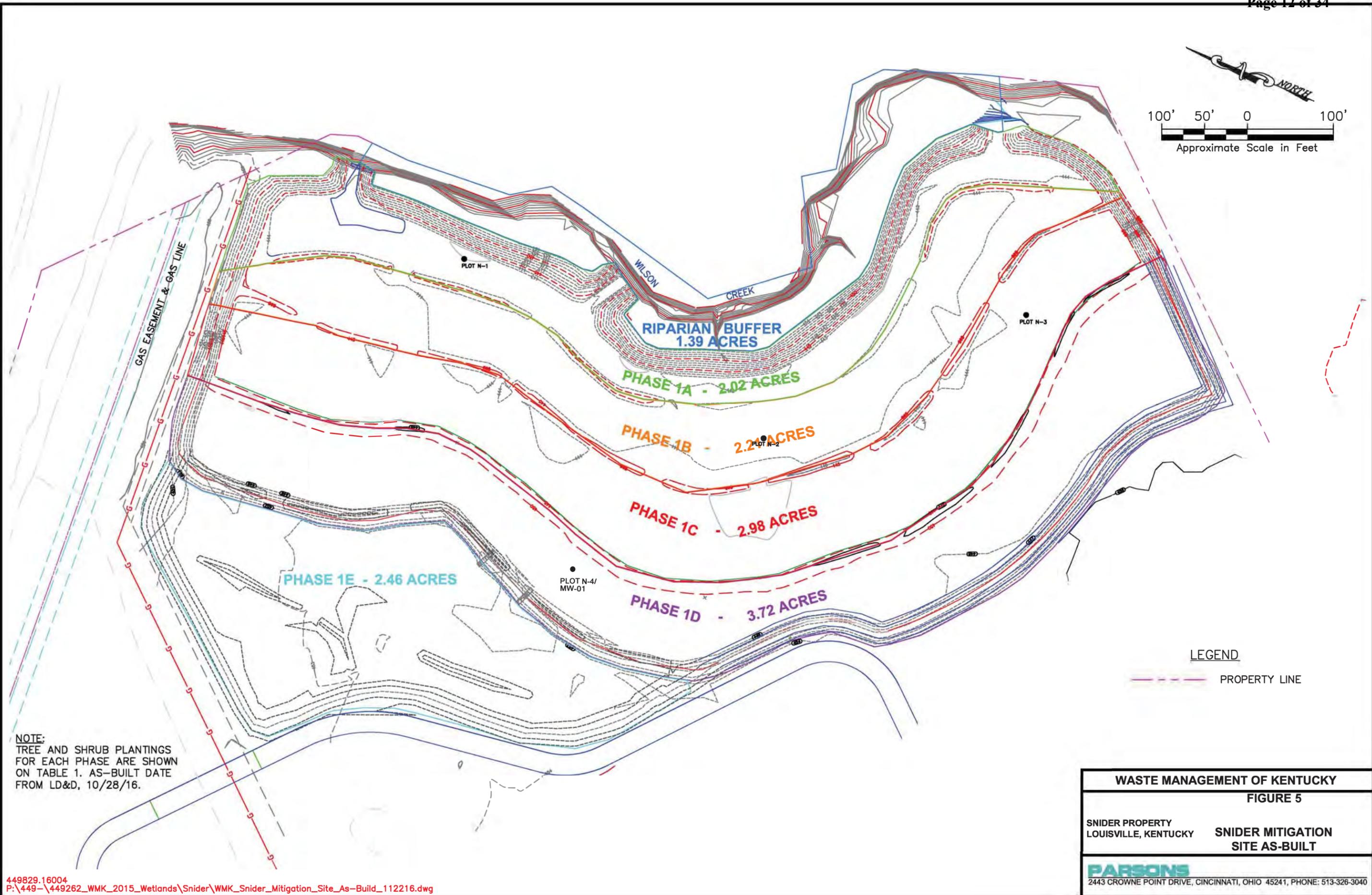
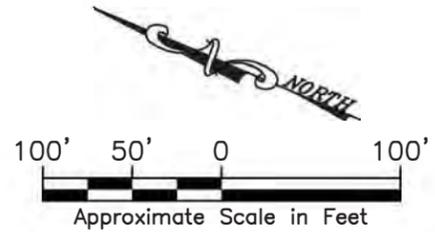
One change was made to the original mitigation design at the Snider Property. The final grade on-site was to be 10 to 15 feet lower on average throughout most of the property. During permitting of the site through the local Louisville/Jefferson County Metropolitan Sewer District (MSD), it was agreed that the existing riparian buffer along the west bank of Wilson Creek would not be disturbed in order to provide screening for residents living across the creek, preserve a stand of large, old-growth trees that could continue to provide wildlife habitat and serve as a future seed source for the mitigation site and to better control runoff from the mitigation site into Wilson Creek by directing sheet flow into three openings along Wilson Creek. Thus, there are 1.39 acres of preserved riparian buffer along the banks of Wilson Creek that was originally to be converted into forested wetlands. This change was approved by the USACE on December 20, 2012 and the KDOW on January 9, 2013. It is anticipated that the 1.39 acres of riparian buffer will be released by the USACE in 2017 along with Phase 1A at the Snider Property. The current as-built for the Snider Property is included as Figure 5 and shows this riparian buffer area and the phased-approach mitigation areas.

## 6.0 Relocation of Wet Woods Creek

Approximately 1,600 linear feet of the western portion of Wet Woods Creek were relocated in 2010. This was one year later than originally required by the 2008 permit. A one-year extension was granted by the USACE on June 3, 2009 to complete the project. The relocation of Wet Woods Creek was delayed because LG&E had to lower a gas transmission line in the area before construction of the new creek channel could begin. LG&E completed a design plan to lower the gas line in 2008 and actual construction work to lower the gas line was completed in the summer and fall of 2009. This did not leave WMK enough time to complete the remaining construction work for the creek channel in 2009 due to the extreme high water table in the area during the winter months. Thus, WMK completed the relocation of the creek channel in the summer of 2010 and riparian tree and shrub plantings were completed in the spring of 2011.

## 7.0 Mitigation Completion Schedule

As described above, Table 2 presents the anticipated phasing approach for the landfill expansion, the acres of wetlands projected to be impacted during each phase, and the acres of wetlands created/restored to compensate for those impacts through the year 2030. Although a “deficit” of mitigation acres is shown from 2015 through 2027, the areas designated as Northeast Woods-1 (8.8 acres) and Northeast Woods-2 (11.56 acres) on Figure 4 are not anticipated to be impacted before the year 2048 per current landfill expansion sequencing projections. These two areas were permitted to take per the 1993 permit and have been mitigated for already as described previously in Section 1.1. Thus, there will be no temporal impacts to impacted wetlands as a result of revising the landfill expansion phases and completion of off-site mitigation at the Snider property.



NOTE:  
TREE AND SHRUB PLANTINGS  
FOR EACH PHASE ARE SHOWN  
ON TABLE 1. AS-BUILT DATE  
FROM LD&D, 10/28/16.

LEGEND  
- - - - - PROPERTY LINE

<b>WASTE MANAGEMENT OF KENTUCKY</b>	
<b>FIGURE 5</b>	
SNIDER PROPERTY LOUISVILLE, KENTUCKY	<b>SNIDER MITIGATION SITE AS-BUILT</b>
<b>PARSONS</b>	
2443 CROWNE POINT DRIVE, CINCINNATI, OHIO 45241, PHONE: 513-326-3040	

# Attachment A - Agency Permit Correspondence from 2008 to 2016

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**DEPARTMENT OF THE ARMY**  
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE  
CORPS OF ENGINEERS  
P.O. BOX 59  
LOUISVILLE, KENTUCKY 40201-0059  
FAX: (502) 315-6677

March 4, 2009

Operations Division  
Regulatory Branch (South)  
ID No. LRL-2003-1197-kjm

Mr. Kevin M. Mieczkowski  
Waste Management  
2673 Outer Loop  
Louisville, Kentucky 40219

Dear Mr. Mieczkowski:

This is in response to the report dated December 29, 2008 regarding required mitigation monitoring for the On-Site West and On-Site East Wetland Mitigation Areas on the facility property in Jefferson County, Kentucky.

Based on the monitoring report, both the On-Site West and On-Site East Wetland Mitigation Areas have met success criteria; therefore all the conditions of the permit have been met. This project is released from further monitoring. Thank you for your compliance with the DA permit and conditions.

Copies of this letter are being forwarded to Mr. Alan Grant with the Kentucky Division of Water, and Ms. Karen Fields with Parsons, see enclosure for coordinating addresses.

If you have any questions concerning this matter, please contact this office at the above address, ATTN: CELRL-OP-FS or call Ms. Kimberly J. McBride at (502) 315-6691. Any correspondence on this matter should refer to our ID Number LRL-2003-1197-kjm.

Sincerely,

**Original Signed**

Kimberly J. McBride  
Project Manager, South  
Regulatory Branch

Enclosure

COORDINATING ADDRESS

Mr. Alan Grant  
Water Quality Section  
Kentucky Division of Water  
200 Fair Oaks  
Frankfort, Kentucky 40601

Ms. Karen Fields  
Parsons  
2443 Crowne Point Drive  
Cincinnati, Ohio 45241

**From:** [Mcbride, Kimberly J LRL](mailto:Mcbride.Kimberly.J.LRL)  
**To:** [Fields, Karen](mailto:Fields.Karen)  
**Subject:** RE: Extension Request Regarding Wet Woods Creek at the Outer Loop Landfill, Louisville, KY  
**Date:** Wednesday, June 03, 2009 10:06:49 AM

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Karen,

Yes, Waste Management can postpone the relocation of Wet Woods Creek by one year due to delays in Louisville Gas and Electric relocation of utilities along and in Wet Woods Creek. However, Wet Woods Creek shall be relocated and plantings planted no later than December 31, 2010. All other conditions of the permit remain in full force and effect.

Thank you,  
Kimberly

Kimberly J. McBride  
Biologist

US Army Corps of Engineers  
Louisville District  
CELRL-OP-FN  
Room 752 PO Box 59  
Louisville, KY 40202

p (502)315-6691  
f (502)315-6677  
[kimberly.j.mcbride@usace.army.mil](mailto:kimberly.j.mcbride@usace.army.mil)

-----Original Message-----

From: Fields, Karen [<mailto:Karen.Fields@parsons.com>]  
Sent: Wednesday, June 03, 2009 10:02 AM  
To: Mcbride, Kimberly J LRL  
Subject: Extension Request Regarding Wet Woods Creek at the Outer Loop Landfill, Louisville, KY

Hi Kimberly,

Per our conversation and as previously indicated in Section 5.1 of the Consolidated Mitigation Plan dated June 2008, Parsons (on behalf of Waste Management of Kentucky, LLC (WMK)) is requesting an extension for the completion of the relocation of Wet Woods Creek. Per Department of Army Permit #200301197, specifically, Special Condition #6 of the permit and Mitigation Condition #7 of the Kentucky Division of Water Permit #2007-0046-2, the relocation of 1,320 ft of Wet Woods Creek must be constructed no later than December 31, 2009. This includes the planting of the riparian corridor (approximately 30-feet on each side of the bank) adjacent to the creek. However, this is to inform you that WMK will be unable to meet this deadline because of work Louisville Gas & Electric (LG&E) needs to complete before WMK can begin the creek relocation project.

The creek relocation project will be delayed since LG&E needs to lower a gas transmission line in the area before construction of the new creek channel can begin. LG&E has indicated to WMK that they would only lower the gas line during the summer months when demand for gas is at its lowest level. LG&E completed a design plan to lower the gas transmission line in 2008 and actual construction work to lower the gas line is scheduled for the summer and fall

of this year. This will not leave WMK enough time to complete the remaining construction work in 2009 due to the extreme high water table in the area during the winter months. Thus, WMK anticipates completing the relocation of the creek in the summer of 2010. Since the optimal time to plant riparian vegetation is in the spring, WMK intends to delay the riparian plantings until the following spring in 2011.

Parsons respectfully requests your concurrence with this revised schedule due to the circumstances described above. WMK will make a similar request of the Kentucky Division of Water. In addition, WMK will provide the U.S. Army Corps of Engineers (USACE) with status updates concerning the relocation of Wet Woods Creek and projected schedule in our yearly report to the USACE and as needed throughout the year until such time as the creek relocation project is complete.

Should you have any questions regarding this extension request, please feel free to contact me.

Sincerely,

Karen Fields

PARSONS  
2443 Crowne Point Drive  
Cincinnati, Ohio 45241  
(513) 552-7016  
fax (513) 552-7044  
karen.fields@parsons.com <<mailto:karen.fields@parsons.com>>

DEPARTMENT OF THE ARMY  
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE  
CORPS OF ENGINEERS  
P.O. BOX 59  
LOUISVILLE KY 40201-0059  
FAX: (502) 315-6677

Exhibit 7  
Page 18 of 34

December 20, 2012

Operations Division  
Regulatory Branch (South)  
ID No. LRL-2003-1197-kjs

Mr. Jim Stamm  
Waste Management of Kentucky, LLC  
2673 Outer Loop  
Louisville, Kentucky 40219

Dear Mr. Stamm:

This is in regard to an electronic mail message submitted on your behalf by Parsons, your authorized agent, on December 3, 2012, requesting a modification to Department of the Army (DA) Permit LRL-2003-1197-kjs, which authorized the expansion of the Waste Management of Kentucky Facility and associated Snider Mitigation Site located on Outer Loop in Louisville, Jefferson County, Kentucky. The request is to modify the excavation at the Snider Mitigation Site to create cut-throughs with sediment traps in the excavation area. This requested modification is approved.

This approval is granted in accordance with the enclosed drawings titled "Excavation Plan Sheet 2 of 3" and "Excavation Plan Sheet 3 of 3" dated November 20, 2012. All other conditions of the original permit remain in full force and effect. You are reminded, specifically of Special Condition Nos. 7 and 9, which state that the permittee shall establish deed restrictions or restrictive covenants on all existing or proposed on-site and off-site wetland restoration, creation, and preservation areas prior to the final release and acceptance of the mitigation areas; and, the permittee shall only remove trees within the project area and mitigation area between November 15 and March 31 to avoid impacts to federally listed bat species.

Copies of this letter will be sent to the appropriate coordinating agencies and to Ms. Karen Fields at Parson (see enclosure for addresses).

If we can be of any further assistance, please contact us at the above address, ATTN: CELRL-OP-FS, or call Ms. Kimberly Simpson at (502) 315-6691.

FOR THE DISTRICT ENGINEER:

Original Signed

Lee Anne Devine  
Chief, South Section  
Regulatory Branch

Enclosures

NOTES:

1. SEE DWG. C-002 FOR GENERAL NOTES AND LEGEND.
2. TOTAL AREA OF FLOODPLAIN IS 2147+ ACRES.
3. TOTAL VOLUME OF EXCAVATED FLOODPLAIN IS 217,000 CUBIC YARDS.
4. SEE SPECIAL CONDITIONS (SHEET C-2) FOR PHASING OF ROPS IN THE EXCAVATION AREA.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION WITH THE GENERAL GAS AND ELECTRIC TO THE GAS MAIN WHERE ACCESS PROVISION MASS IS TO BE MADE AND SHALL OBTAIN ALL NECESSARY PERMITS AND PROTECTIVE FEATURES FOR THE EXCAVATION OF THE WORK.
6. SEE SPECIAL CONDITIONS (SHEET C-2) FOR PHASING OF ROPS IN THE EXCAVATION AREA.
7. HAVE ROCK LAG IN STRIP 15-541. EXCAVATION AREA AND STURDIBLE AREA IS CONSTRUCTED FOR THE CONTRACTOR'S USE.
8. AREAS DESIGNATED TO BE MAINTAINED ARE TO BE MAINTAINED AND PROTECTIVE FEATURES TO MAINTAIN THESE FEATURES FOR THE DURATION OF THEIR WORK.

INDICATES WORK NOT IN CONTRACT (NOC) PERFORMED BY OTHERS. INFORMATION IS FOR THE CONTRACTOR'S USE TO MAINTAIN ALL CONTRACTOR CONSTRUCTED FEATURES IN CONFORMANCE WITH THE GENERAL PROPOSED HEREIN.



REVISIONS: 11-20-12 BY LAND DESIGN AND DEVELOPMENT, INC. WITH PERMISSION FROM PARKING CONTRACTOR, UTD/2012/02/02

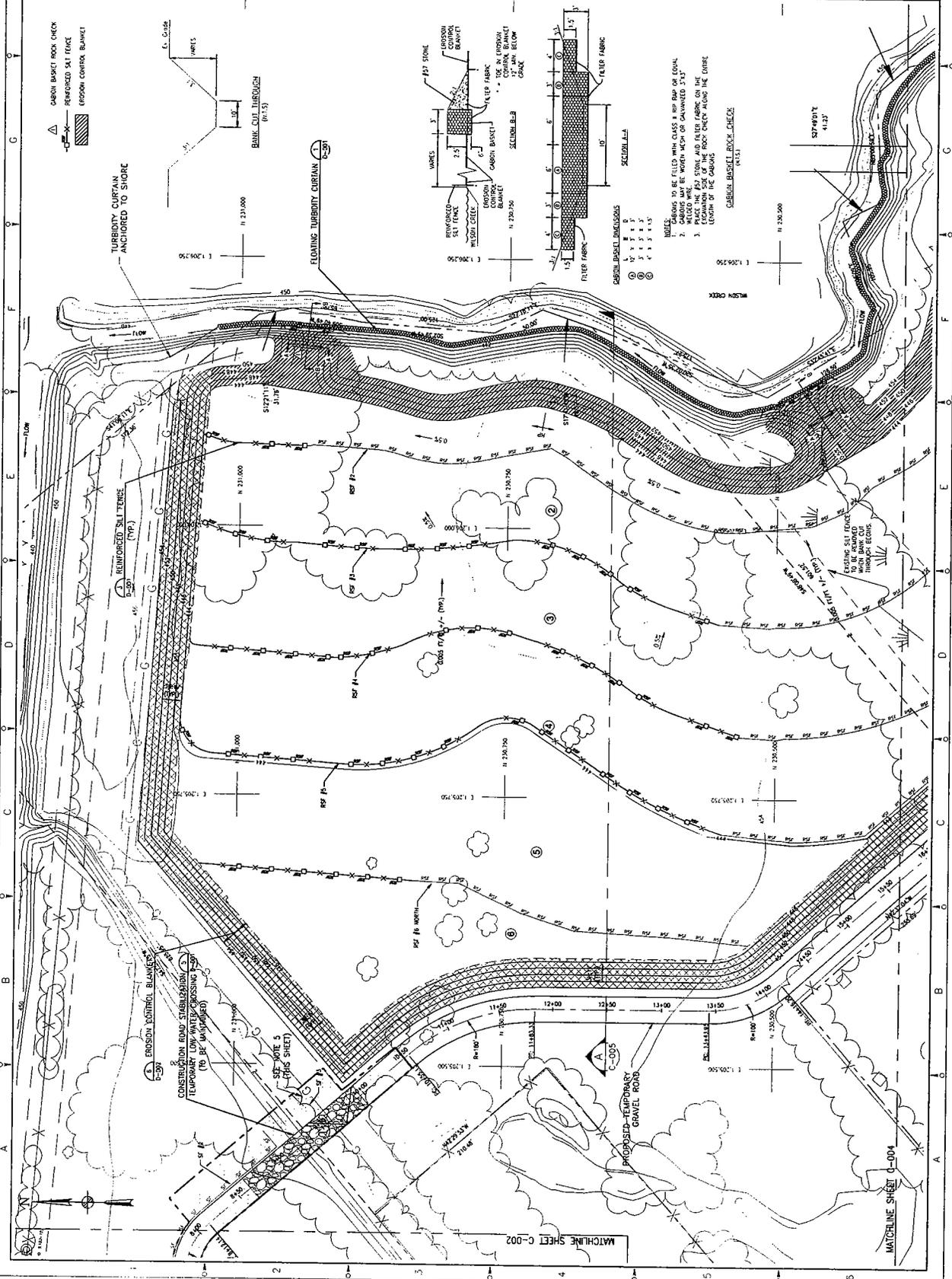
NO.	DATE	BY	SCALE	PROJECT NO.
1	8/12/10	W	1" = 40'	100
2	8/12/10	W	1" = 40'	100
3	8/12/10	W	1" = 40'	100
4	8/12/10	W	1" = 40'	100
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6	8/12/10	W	1" = 40'	100
7	8/12/10	W	1" = 40'	100
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10	8/12/10	W	1" = 40'	100

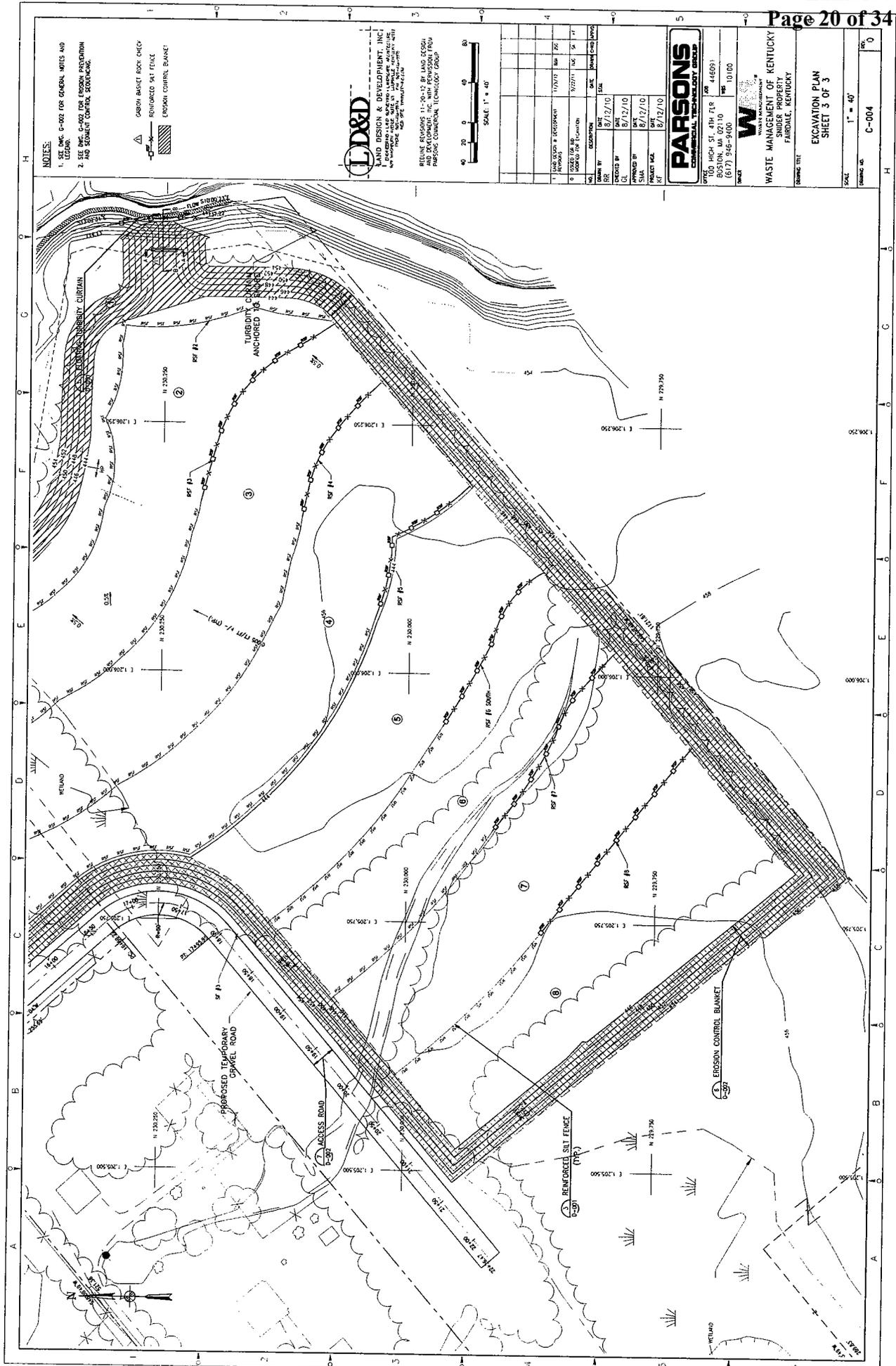
**PARSONS**  
CORPORATE TECHNOLOGY GROUP

100 HIGH ST. 4TH FL. #446031  
BOSTON, MA 02110  
(617) 946-9400

**W**  
WASTE MANAGEMENT OF KENTUCKY  
SHIDER PROPERTY  
FAIRDALE, KENTUCKY

EXCAVATION PLAN  
SHEET 2 OF 3





**NOTES:**  
 1. SEE Dwg. C-002 FOR GENERAL NOTES AND LEGEND.  
 2. SEE Dwg. C-002 FOR EROSION PREVENTION AND SEDIMENT CONTROL MEASURES.



**D&D CONSULTANTS**  
 LAND DESIGN & DEVELOPMENT, INC.  
 1000 HIGHWAY 41N, SUITE 100  
 FARMINGTON, MISSISSIPPI 38241  
 PHONE: 662-206-4444  
 FAX: 662-206-4445  
 WWW: WWW.D&DCONSULTANTS.COM

REVISE EXHIBITS 11-20-15 BY LAND DESIGN AND DEVELOPMENT, INC. WITH PERMISSION FROM PARSONS COMMERCIAL TECHNOLOGY GROUP

NO.	DATE	DESCRIPTION
1	11/20/15	ISSUE FOR PERMITS
2	11/27/15	ISSUE FOR PERMITS
3	11/27/15	ISSUE FOR PERMITS
4	11/27/15	ISSUE FOR PERMITS
5	11/27/15	ISSUE FOR PERMITS
6	11/27/15	ISSUE FOR PERMITS
7	11/27/15	ISSUE FOR PERMITS
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16	11/27/15	ISSUE FOR PERMITS
17	11/27/15	ISSUE FOR PERMITS
18	11/27/15	ISSUE FOR PERMITS
19	11/27/15	ISSUE FOR PERMITS
20	11/27/15	ISSUE FOR PERMITS

**PARSONS**  
 COMMERCIAL TECHNOLOGY GROUP

100 HIGH ST., 4TH FLOOR  
 BOSSON, MISSISSIPPI 38201  
 (617) 545-9400

PROJECT NO. 10100

**W**  
 WASTE MANAGEMENT OF KENTUCKY  
 SHUBER PROPERTY  
 FAIRDALE, KENTUCKY

EXCAVATION PLAN  
 SHEET 3 OF 3

SCALE: 1" = 40'  
 DRAWING NO. C-004

ADDRESSES FOR COORDINATING AGENCIES

Ms. Sandra Gruzesky  
Director  
KY Energy and Environment Cabinet  
Division of Water  
200 Fair Oaks, 4<sup>th</sup> Floor  
Frankfort, Kentucky 40601

Mr. Billy P. Hartsell, PE  
State Conservation Engineer  
U.S. Department of Agriculture  
Natural Resources Conservation Service  
771 Corporate Drive, Suite 210  
Lexington, Kentucky 40503-5479

Ms. Tony Able  
Wetlands & Marine Regulatory Section  
USEPA  
Region IV  
Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

Mr. Lindy Casebier  
Executive Director  
State Historic Preservation Officer  
Kentucky Heritage Council  
300 Washington Street  
Frankfort, Kentucky 40601

Mr. Lee Andrews  
U.S. Fish & Wildlife Service  
JC Watts Federal Building, Room 265  
330 West Broadway  
Frankfort, Kentucky 40601

Office of the Director  
Louisville Metro Planning and Design  
444 South 5<sup>th</sup> Street Suite 300  
Louisville, KY 40202-4313

Dr. Jonathan W. Gassett  
Commissioner  
Dept of Fish and Wildlife Resources  
#1 Game Farm Road  
Frankfort, Kentucky 40601

Mr. David Johnson  
Metropolitan Sewer District  
700 West Liberty St.  
Louisville, KY 40202

Mr. Richard Jett  
Metro Planning and Design Services  
Metro Development Center  
444 S. 5<sup>th</sup> Street, Suite 300  
Louisville, KY 40202-4313

ADDRESS FOR AUTHORIZED AGENT

Ms. Karen Fields  
Parsons  
2443 Crowne Point Drive  
Cincinnati, Ohio 45241



STEVEN L. BESHEAR  
GOVERNOR

LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF WATER  
200 FAIR OAKS LANE, 4TH FLOOR  
FRANKFORT, KENTUCKY 40601  
[www.kentucky.gov](http://www.kentucky.gov)

January 9, 2013

Jim Stamm  
Waste Management of Kentucky, LLC.  
2673 Outer Loop  
Louisville, Kentucky 40219

Re: AI No: 2257; Activity ID: APE20030003  
WQC Agreed Order # 2007-0046-2  
Snider Mitigation Site Modification Request  
Wilson Creek and Associated Wetlands  
Jefferson County, Kentucky

Dear Mr. Stamm:

This in regard to an electronic mail message submitted on your behalf by Parsons, your authorized agent, on December 3, 2012, requesting a modification to Kentucky Division of Water, Water Quality Certification Agreed Order # 2007-0046-2, which authorized the expansion of the Waste Management Facility and associated Snider Mitigation Site located on Outer Loop in Louisville, Jefferson County, Kentucky. The request is to make modifications to the way the excavation work is phased along Wilson Creek at the Snider Mitigation Site by creating "cut-throughs" with sediments traps in the excavation area. This requested modification is approved.

This approval is granted in accordance with the drawings submitted titled "Excavation Plan Sheet 2 of 3," "Excavation Plan Sheet 3 of 3," and "General Notes and Legend." All other conditions of the original Water Quality Certification Agreed Order remain in full force and effect.

All future correspondence on this project must reference **AI No. 2257**. If you should have any questions concerning this letter, please contact me at (502) 564-3410 Extension 4863 or [Chloe.Tewksbury@ky.gov](mailto:Chloe.Tewksbury@ky.gov).

Sincerely,

A handwritten signature in black ink that reads "Chloe Tewksbury".

**Chloe Tewksbury, Project Manager**  
Water Quality Certification Section  
Kentucky Division of Water

BJS:CT

cc: Kimberly Simpson, USACE: Louisville District (via email: [Kimberly.J.Simpson@usace.army.mil](mailto:Kimberly.J.Simpson@usace.army.mil))  
Karen Field, Parsons (via email: [Karen.Fields@parsons.com](mailto:Karen.Fields@parsons.com))



**DEPARTMENT OF THE ARMY**  
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE  
CORPS OF ENGINEERS  
P.O. BOX 59  
LOUISVILLE KY 40201-0059  
FAX: (502) 315-6677  
<http://www.lrl.usace.army.mil/>

**Exhibit 7**  
**Page 23 of 34**

November 24, 2015

Operations Division  
Regulatory Branch (South)  
ID No. LRL-2003-01197-mck

Ms. Amy Osborn  
Waste Management of Kentucky, LLC (WMK)  
2673 Outer Loop  
Louisville, Kentucky 40219

Dear Ms. Osborn:

This is in regard to a letter dated January 23, 2015, submitted by you, which requested a modification to Department of the Army (DA) Permit Number LRL-2003-01197-mck. This permit authorized the expansion of the existing landfill by filling approximately 66 acres of wetlands and the relocation of approximately 1,600 linear feet of Wet Woods Creek, located northwest of the Outer Loop and I-65 intersection in central Jefferson County, Kentucky (Latitude: 38.1386°N and Longitude: 85.7156°W).

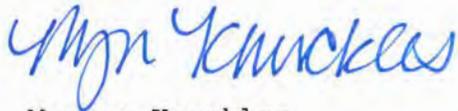
The letter requested that Special Condition 5 be modified to allow WMK to impact an additional 1.35 acres of the Northeast Woods 5c ahead of the mitigation being complete at the Snider Mitigation Site. This would allow the landfill to be built to the full extent of the Unit 5 Phase III boundary as intended in the 2004 Solid Waste Permit Application and allow the maximum amount of solid waste to be placed in this phase. The requested modification is approved. Special Condition 5 has been modified to say:

"Impacts to 7.45 acres of wetlands in Area 5 (Unit 5a) and 1.35 acres of wetlands (Unit 5c) are an exception to Special Condition 4. However, 8.8 acres of wetlands that were previously authorized to be impacted (Unit 5b), cannot be impacted until a proportionate amount of wetlands at the Snider mitigation site have met minimal success criteria and been released from monitoring by this office."

All other conditions of the original permit remain in full force and effect. Copies of this letter will be sent to the appropriate coordinating agencies (see enclosure for addresses).

If we can be of any further assistance, please contact us at the above address, ATTN: CELRL-OPF-S, or call me at (502) 315-6709.

FOR THE DISTRICT ENGINEER:



Meagan Knuckles  
Project Manager  
Regulatory Branch

Enclosure

ADDRESSES FOR COORDINATING AGENCIES

Mr. Duncan Powell  
USEPA, Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, GA 30303-8960

Mr. Lee Andrews  
U.S. Fish & Wildlife Service  
JC Watts Federal Building  
330 West Broadway, Room 265  
Frankfort, KY 40601

Ms. Andrea Keatley  
Kentucky Energy & Environment Cabinet  
Division of Water  
200 Fair Oaks, 4th Floor  
Frankfort, KY 40601

Mr. Craig Potts  
Executive Director  
State Historic Preservation Officer  
Kentucky Heritage Council  
300 Washington Street  
Frankfort, KY 40601

Mr. Gregory Johnson, Commissioner  
KY Dept. of Fish and Wildlife Resources  
#1 Sportsman's Lane  
Frankfort, KY 40601



**DEPARTMENT OF THE ARMY**  
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE  
CORPS OF ENGINEERS  
P.O. BOX 59  
LOUISVILLE KY 40201-0059  
FAX: (502) 315-6677  
<http://www.lrl.usace.army.mil/>

**Exhibit 7**  
**Page 26 of 34**

March 18, 2016

Operations Division  
Regulatory Branch (South)  
ID No. LRL-2003-01197-mck

Ms. Amy Osborn  
Waste Management of Kentucky, LLC (WMK)  
2673 Outer Loop  
Louisville, Kentucky 40219

Dear Ms. Osborn:

This is in regard to the mitigation site (Unit 3 Mitigation Wetland, 2.83 acres restored) associated with Department of the Army (DA) Permit No. LRL-2003-01197, which authorized impacts to 66.0 acres of wetlands and 1,600 linear feet of Wet Woods Creek for the expansion of the existing landfill, and included onsite and offsite wetland mitigation located northwest of the Outer Loop and I-65 intersection in central Jefferson County, Kentucky (Latitude: 38.1386°N and 85.7156°W).

Based on a review of the 4<sup>th</sup> year monitoring report dated December 2015, past monitoring reports and a Corps compliance inspection on March 4, 2016; the wetland mitigation site has met success as outlined in the DA permit. The most recent monitoring report demonstrated that the 2.83 acres of Unit 3 Mitigation Wetlands met the success criteria as described in the report. You have requested early release from monitoring for this site. The Corps has determined that no further monitoring will be required. However, please be aware that we will conduct periodic compliance inspections to ensure that the wetland mitigation site remains protected in perpetuity. Provide a final update for Unit 3 wetlands when the monitoring report for the offsite Snider Mitigation is submitted in December 2016.

In addition, in your letter dated January 27, 2016, you requested that a portion of the released 2.83 acres of Unit 3 wetlands be used to compensate for impacts to 1.95 acres of the Northeast Woods and 0.29 acre of Wetland B as indicated on the enclosed Figure 1 as a part of the Louisville Gas & Electric's overhead electric transmission line and underground natural gas transmission line relocation as authorized under DA Permit No. LRL-2003-01197). In summary, WMK is requesting that 2.24 acres of Unit 3 be used to mitigate for 2.24 acres of

impacts to Northeast Woods and Wetland B. This request is granted. The WMK is authorized to begin clearing trees in Wetland B and Woods (NE). The WMK is reminded that they shall only remove trees between November 15 and March 31 to avoid impacts to federally listed bat species as specified in Special Condition #9 of the DA Permit.

The letter from you also addressed mitigation requirements for the remaining conversion of wetlands to uplands and the impacts to the existing easement areas for Louisville Gas & Electric's overhead electric transmission line and underground natural gas transmission line relocation project. These wetlands are proposed to be impacted prior to the release of a proportionate amount of wetlands at the offsite mitigation area (Snider Mitigation Site) and would therefore require that mitigation be provided elsewhere (Special Condition # 4 of the DA Permit). These concerns are currently being discussed with you and will be addressed in a separate letter once additional information has been received.

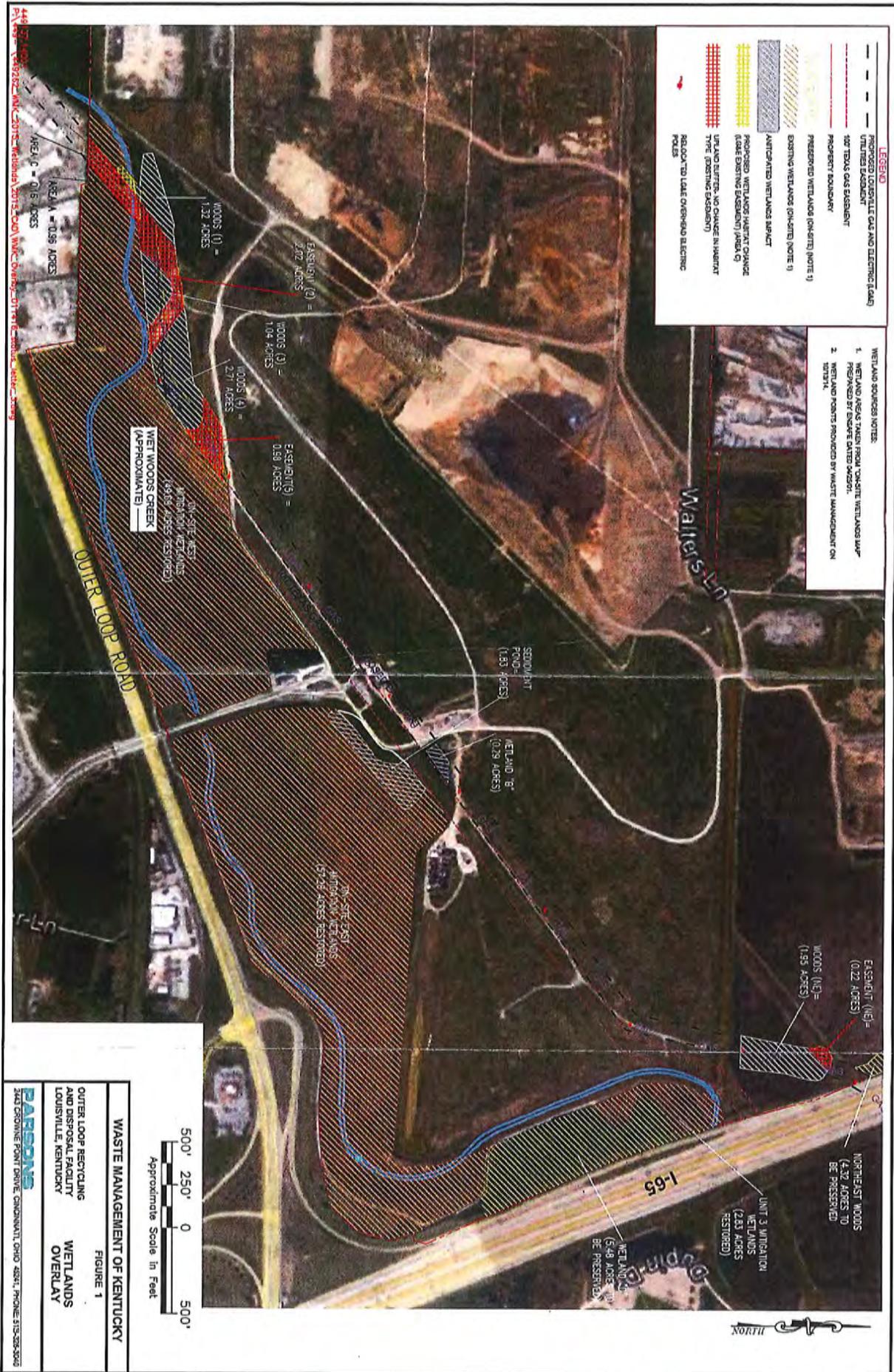
A copy of this letter will be sent to the Kentucky Division of Water (see enclosure for address). If you have any questions concerning this matter please contact me at the above address, ATTN: CELRL-OPF-S, or call me at (502)315-6709. Any correspondence on this matter should refer to our ID Number LRL-2003-01197-mck.

Sincerely,



Meagan Knuckles  
Project Manger  
Regulatory Branch

Enclosures



ADDRESS FOR COORDINATING AGENCY

Ms. Stephanie Hayes  
Kentucky Energy & Environment Cabinet  
Division of Water  
200 Fair Oaks, 4th Floor  
Frankfort, KY 40601



**DEPARTMENT OF THE ARMY**  
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE  
CORPS OF ENGINEERS  
P.O. BOX 59  
LOUISVILLE KY 40201-0059  
FAX: (502) 315-6677  
<http://www.lrl.usace.army.mil/>

September 21, 2016

Operations Division  
Regulatory Branch (South)  
ID No. LRL-2003-01197-mck

Ms. Amy Osborn  
Waste Management of Kentucky, LLC (WMK)  
2673 Outer Loop  
Louisville, Kentucky 40219

Dear Ms. Osborn:

This is in regard to a letter dated May 9, 2016, submitted by you, which requested a modification to Department of the Army (DA) Permit Number LRL-2003-01197-mck. This permit authorized the expansion of the existing landfill by filling approximately 66 acres of wetlands and the relocation of approximately 1,600 linear feet of Wet Woods Creek, located northwest of the Outer Loop and I-65 intersection in central Jefferson County, Kentucky (Latitude: 38.1386°N and Longitude: 85.7156°W).

The letter submitted by you, proposes a modification to the mitigation for the authorized impacts to onsite wetlands. The letter also summarized the revisions to the phasing of the construction of the Unit 8, Phase V landfill expansion which includes the relocation of LG&E's gas and electric transmission lines.

To facilitate the expansion of the landfill, the relocation of LG&E's gas and electric lines must commence before Unit 8, Phase V starts. Special Condition No. 4 of the DA permit states that "impacts to the wetlands cannot occur until a proportionate amount of wetlands at the Snider mitigation site have met minimal success criteria and have been released from monitoring. In lieu of this, prior to impacts to the wetlands onsite, mitigation must be provided elsewhere for these impacts at the amount required by the mitigation policies of the Louisville District at that time." Since the issuance of the permit, there was a delay to the start of construction of the Snider (offsite) mitigation wetlands. Therefore, there are not currently enough mitigation wetlands that will be available for release by the Corps prior to the mitigation credits being needed to continue with the phased expansion of the landfill (Unit 8, Phase V) which includes the relocation of LG&E's gas and electric transmission lines.

To continue work during 2017 and 2018 for the relocation of LG&E's gas and electric transmission lines, WMK is requesting that to impact the authorized 10.28 acres of wetlands for the LG&E relocation project (Easement 5 (0.98 acre), Woods 4 (2.71 acres), Woods 3 (1.04 acres), Easement 2 (2.02 acres), Woods 1 (1.32 acres), LG&E Impacts/Acre C (0.16 acre), Sediment Pond (1.83 acres) and Easement NE (0.22 acre)), the permit be modified to allow the impacts to these wetlands occur prior to the release of mitigation wetlands at the Snider Mitigation site.

In addition, WMK plans to begin Unit 8, Phase V construction once the LG&E relocation is complete. WMK would impact the authorized 11.77 acres of the remaining On-Site West Wetlands for the Phase V construction. These impacts are scheduled to begin in 2020.

Approximately 33.71 acres of mitigation wetlands at the Snider Mitigation site are expected to be completed and released in the year 2030. The permit required 5 years of monitoring and meeting success criteria for each phase of wetlands constructed, therefore all required wetlands that would be constructed to mitigate for the 22.05 acres of wetland impacts (LG&E Gas Relocation & Unit 8, Phase V) at the Snider Property may be released by 2028. As wetlands would be released at the Snider Mitigation Property, they would count toward the wetlands proposing to be impacted prior to wetland release at the Snider Mitigation site. The enclosed table, "Outer Loop RDF, Projected Wetland Impacts and Proposed Mitigation Through 2030," depicts the timeline of impacts versus wetland release at the Snider Mitigation site. According to this table, there would be enough wetlands at the mitigation site to release for impacts to 22.05 acres of wetlands (LG&E Gas Relocation & Unit 8, Phase V) by the year 2028. WMK proposes that by 2028, the impacts required for the LG&E Gas Relocation & Unit 8, Phase V projects would be mitigated for at the Snider Mitigation site.

The requested modification is approved with the following conditions:

- a. The impacts and wetland mitigation release shall follow the enclosed table titled, "Outer Loop RDF, Projected Wetland Impacts and Proposed Mitigation Through 2030," dated September 12, 2016.
- b. WMK shall provide mitigation at a Corps approved mitigation bank or an approved in-lieu fee program with temporal loss at the current market value, for the amount of credits they are deficient at the Snider Mitigation site by December 31, 2028. The next Phases of construction shall not begin until mitigation requirements are fulfilled for the LG&E Gas Relocation & Unit 8, Phase V, and per Special Condition No. 4 of the DA Permit.

In addition, WMK shall submit an updated Consolidated Mitigation Plan (an addendum), by December 31, 2016, which should also include an updated construction timeline, updated wetland release table, figures, etc.

Copies of this letter will be sent to the Kentucky Division of Water and to your agent, Ms. Karen Fields at Parsons (see enclosure for addresses). If you have any questions concerning this matter please contact me at the above address, ATTN: CELRL-OPF-S, or call me at (502)315-6709. Any correspondence on this matter should refer to our ID Number LRL-2003-01197-mck.

Sincerely,



Meagan Knuckles  
Project Manger  
Regulatory Branch

Enclosures

Outer Loop RDF  
Projected Wetland Impacts and Proposed Mitigation Through 2030  
September 12, 2016

Year	Mitigation Areas				Acres Impacted Breakdown
	Acres Released or Anticipated Release	Acres Used or Anticipated To be Used	Mitigation Acres Available	Wetland Areas Impacted	
2015	0	8.8	-8.8	Special Condition 5 Wetlands	8.8
2016	0.59	0	-8.21		
2017	2.02	10.06	-16.25	On-Site West (LG&E) West Easement (LG&E) On-Site East - Sed Pond (LG&E)	8.07 0.16 1.83
2018	2.21	0.22	-14.26	NE Woods Easement (LG&E)	0.22
2019	2.98	0	-11.28		
2020	3.72	11.77	-19.33	On-Site West (Phase V)	11.77
2021	3.08	0	-16.25		
2022	2.3	0	-13.95		
2023	2.4	0	-11.55		
2024	0	0	-11.55		
2025	3	0	-8.55		
2026	3	0	-5.55		
2027	3	0	-2.55		
2028	3	0	0.45		
2029	3	0	3.45		
2030	0	0	3.45		
Totals:				30.85	30.85

Notes:

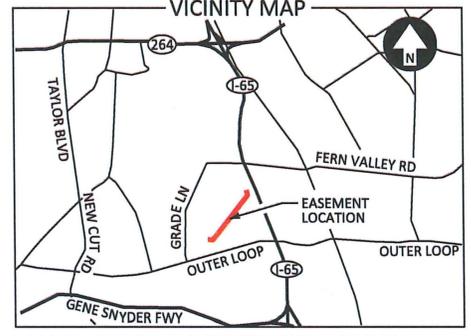
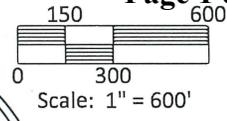
Areas correspond to those depicted on Figure 1 - "Projected Impacts for LG&E and Phase V of the Landfill Expansion", 8-16-16. Quantities are current as of August 10, 2016. Special Condition 5 Wetlands were permitted to be impacted per Special Condition 5 in the 2008 permit and modification dated 11/24/15. 2.24 acres of the Unit 3 mitigation wetlands were used in 2016 to mitigate for 1.95 acres of the Northeast Woods and 0.29 acres of Wetland B for impacts due to relocation of the LG&E lines. These impacts and mitigation were authorized on 3/18/16 by the USACE. Mitigation acreages for Snider 1A through Snider 1E are based on actual as-built surveys provided by LD&D and are based on surveyed quantities of topsoil area removed. Mitigation acreages for Snider 1F through 1G and Snider 2A through 2E are estimated quantities based on current design drawings and not as-builts. Northeast Woods-1 and Northeast Woods-2 (Figure 1) are not anticipated to be impacted before the year 2048 per current landfill expansion sequencing and cannot be impacted until an equal amount of mitigation wetlands have been released at the Snider Property or mitigated for elsewhere.

ADDRESS FOR COORDINATING AGENCY

Ms. Stephanie Hayes  
Kentucky Energy & Environment Cabinet  
Division of Water  
200 Fair Oaks, 4th Floor  
Frankfort, KY 40601

ADDRESS FOR AGENT

Ms. Karen Fields  
Parsons  
2443 Crowne Point Drive  
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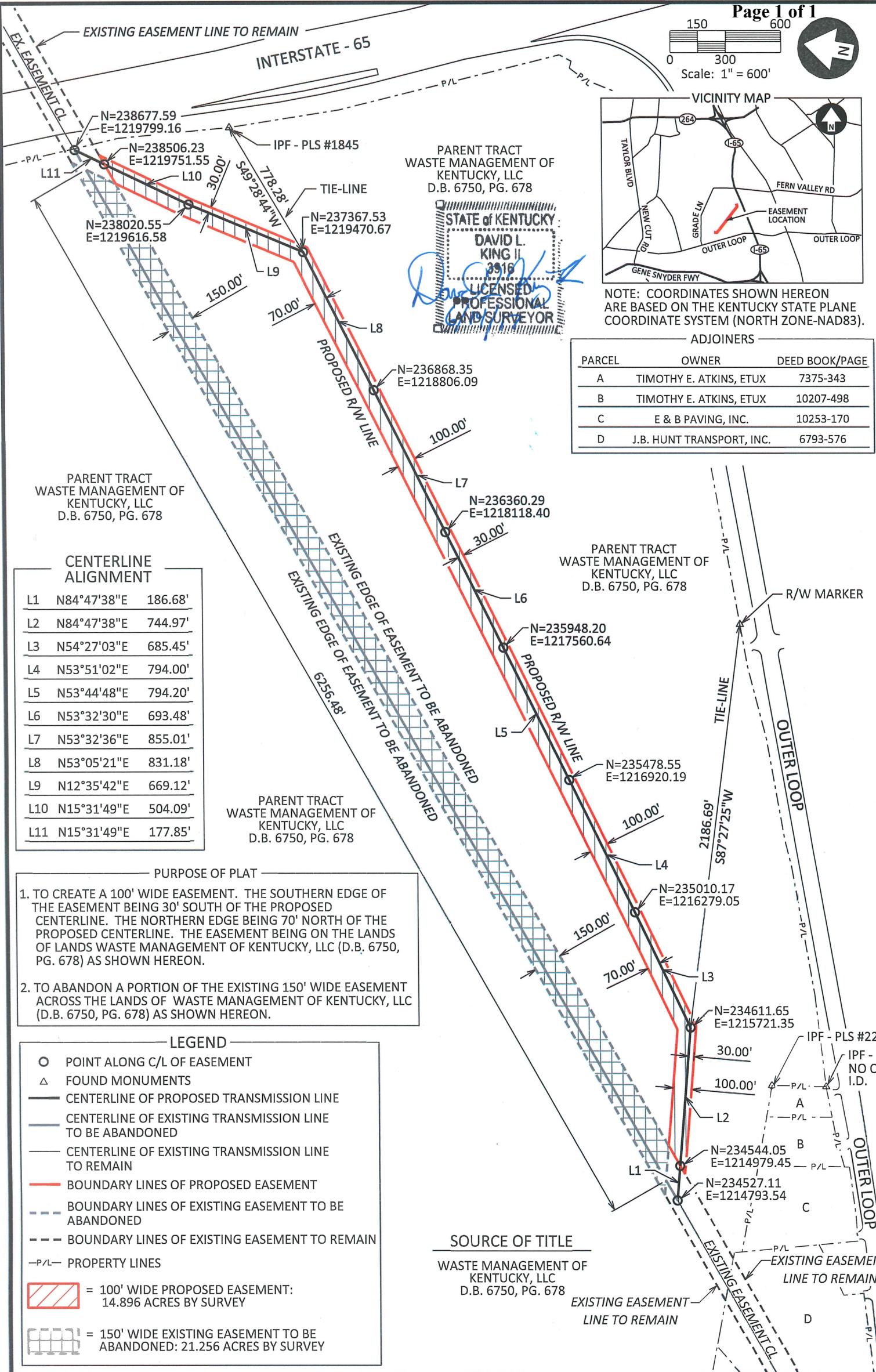
NOTE: COORDINATES SHOWN HEREON ARE BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM (NORTH ZONE-NAD83).

ADJOINERS

PARCEL	OWNER	DEED BOOK/PAGE
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B	TIMOTHY E. ATKINS, ETUX	10207-498
C	E & B PAVING, INC.	10253-170
D	J.B. HUNT TRANSPORT, INC.	6793-576

PARENT TRACT WASTE MANAGEMENT OF KENTUCKY, LLC  
D.B. 6750, PG. 678

STATE OF KENTUCKY  
**DAVID L. KING II**  
3916  
LICENSED PROFESSIONAL LAND SURVEYOR



PARENT TRACT WASTE MANAGEMENT OF KENTUCKY, LLC  
D.B. 6750, PG. 678

CENTERLINE ALIGNMENT

L1	N84°47'38"E	186.68'
L2	N84°47'38"E	744.97'
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PARENT TRACT WASTE MANAGEMENT OF KENTUCKY, LLC  
D.B. 6750, PG. 678

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- △ FOUND MONUMENTS
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- CENTERLINE OF EXISTING TRANSMISSION LINE TO BE ABANDONED
- CENTERLINE OF EXISTING TRANSMISSION LINE TO REMAIN
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- = 100' WIDE PROPOSED EASEMENT: 14.896 ACRES BY SURVEY
- = 150' WIDE EXISTING EASEMENT TO BE ABANDONED: 21.256 ACRES BY SURVEY

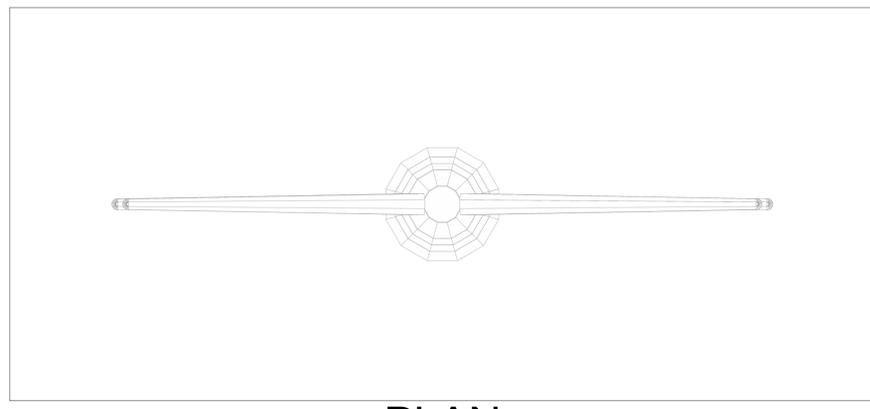
SOURCE OF TITLE  
WASTE MANAGEMENT OF KENTUCKY, LLC  
D.B. 6750, PG. 678



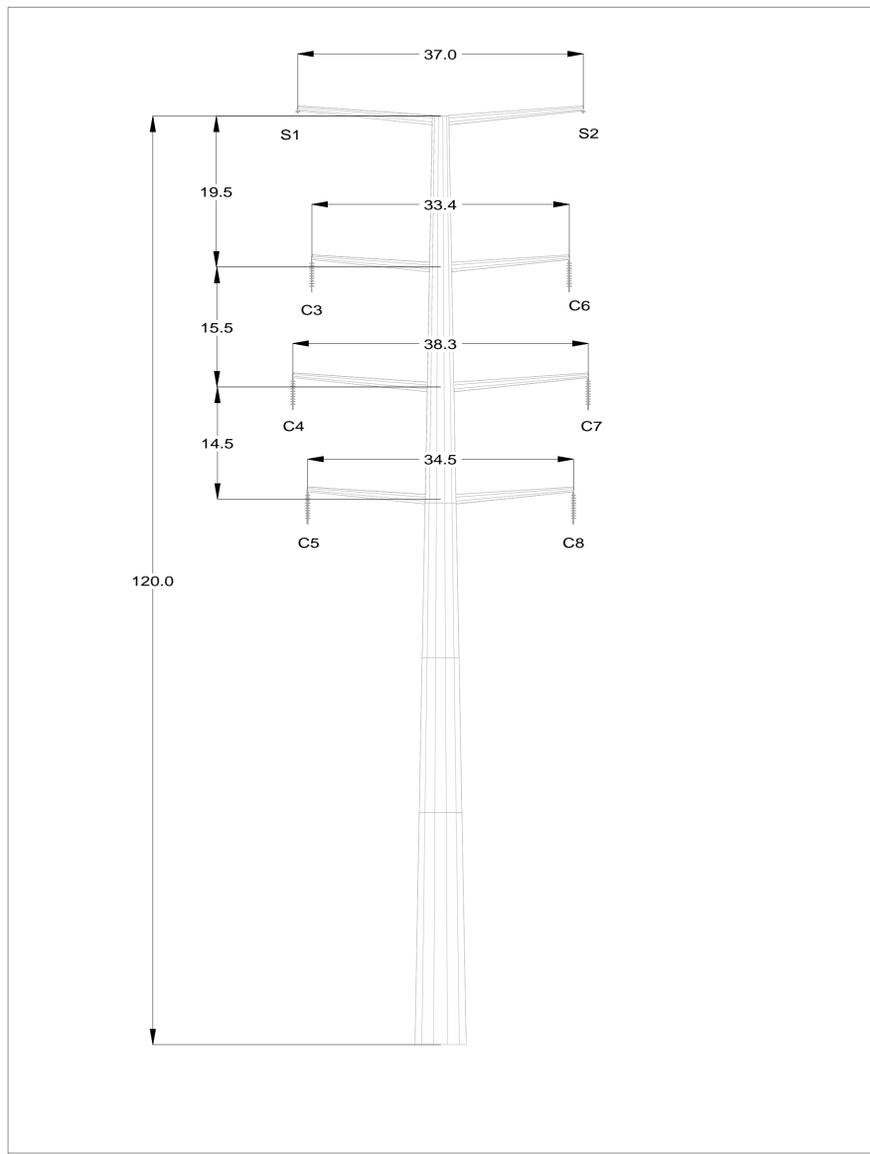
P.O. BOX 204  
165 FOSTER LANE  
STANFORD, KY 40484  
PHONE (606) 365-8362  
FAX (606) 365-1097

EASEMENT DRAWING  
WASTE MANAGEMENT OF KENTUCKY, LLC  
OUTER LOOP  
LOUISVILLE, JEFFERSON CO., KENTUCKY

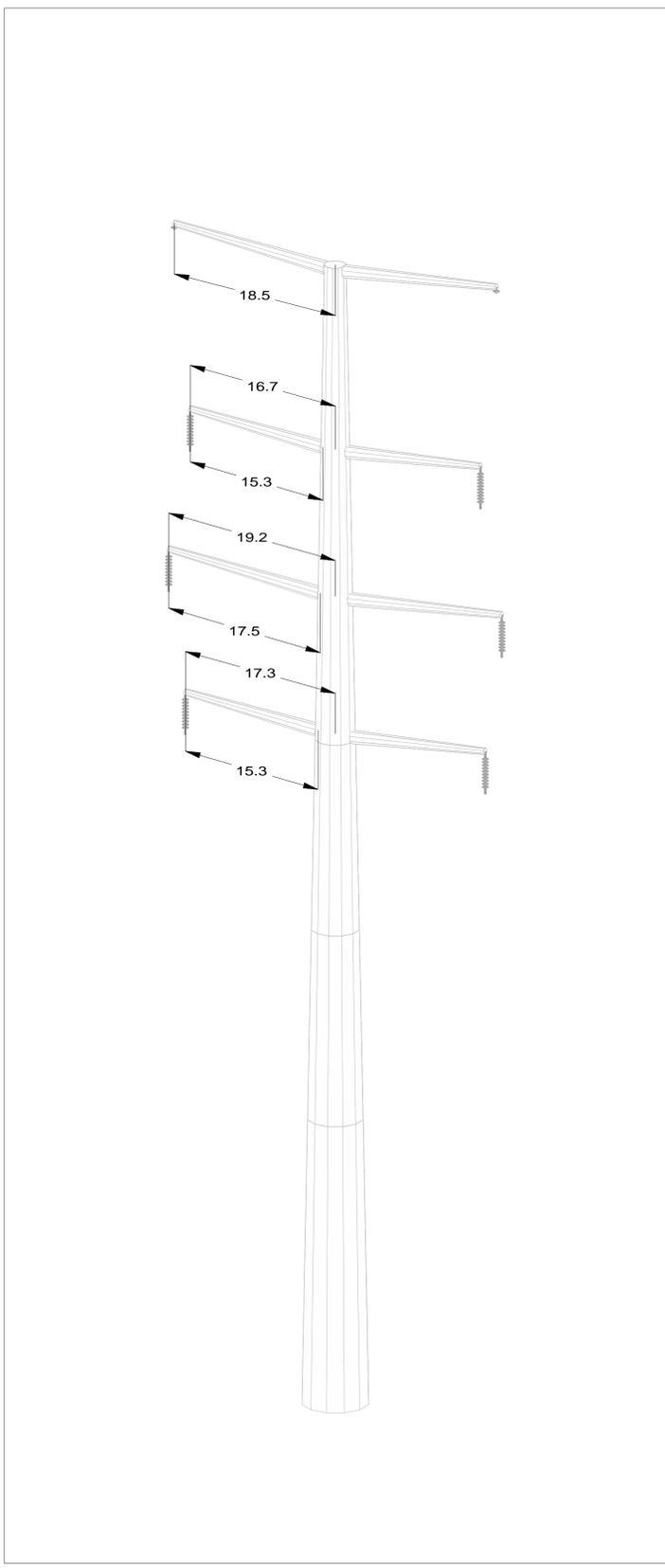
DATE: 08/17/2016  
SCALE: 1" = 600'  
DRAWN BY: DRD  
APPROVED BY: GOOCH  
FILENAME: 16197EASEMENT



**PLAN**



**LOOKING TO ASHBOTTOM**



SURVEY BY

SCALES  
HORIZ. 1"=100'  
VERT. 1"=20'

REVISED BY DATE

SURVEY BY:  
DRAWN BY:  
CHECKED BY:

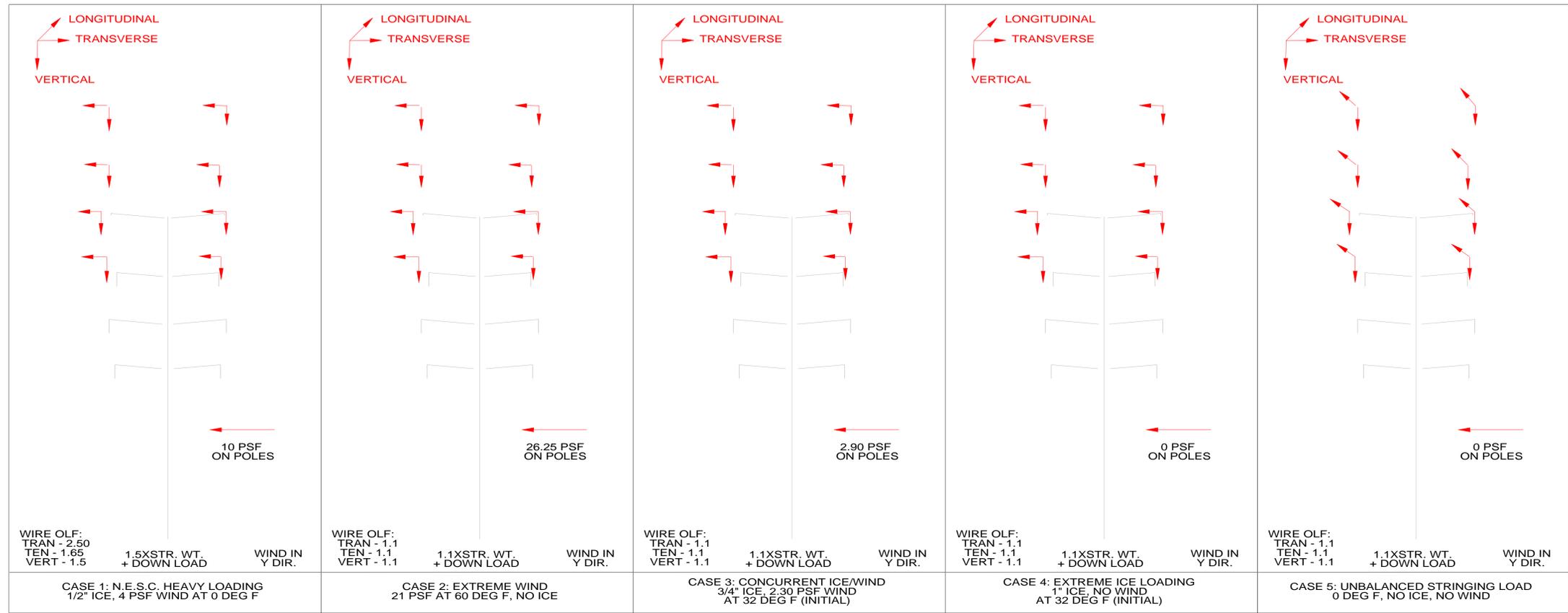
DATE:

UNIT NO.:



SHEET  
3836-1-6





SURVEY BY

SCALES

REVISED BY DATE

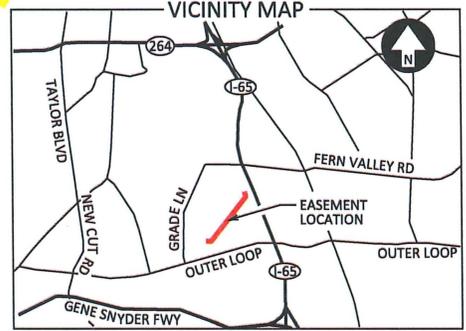
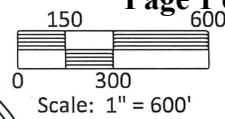
SURVEY BY:  
DRAWN BY:  
CHECKED BY:

DATE:

UNIT NO.:



SHEET



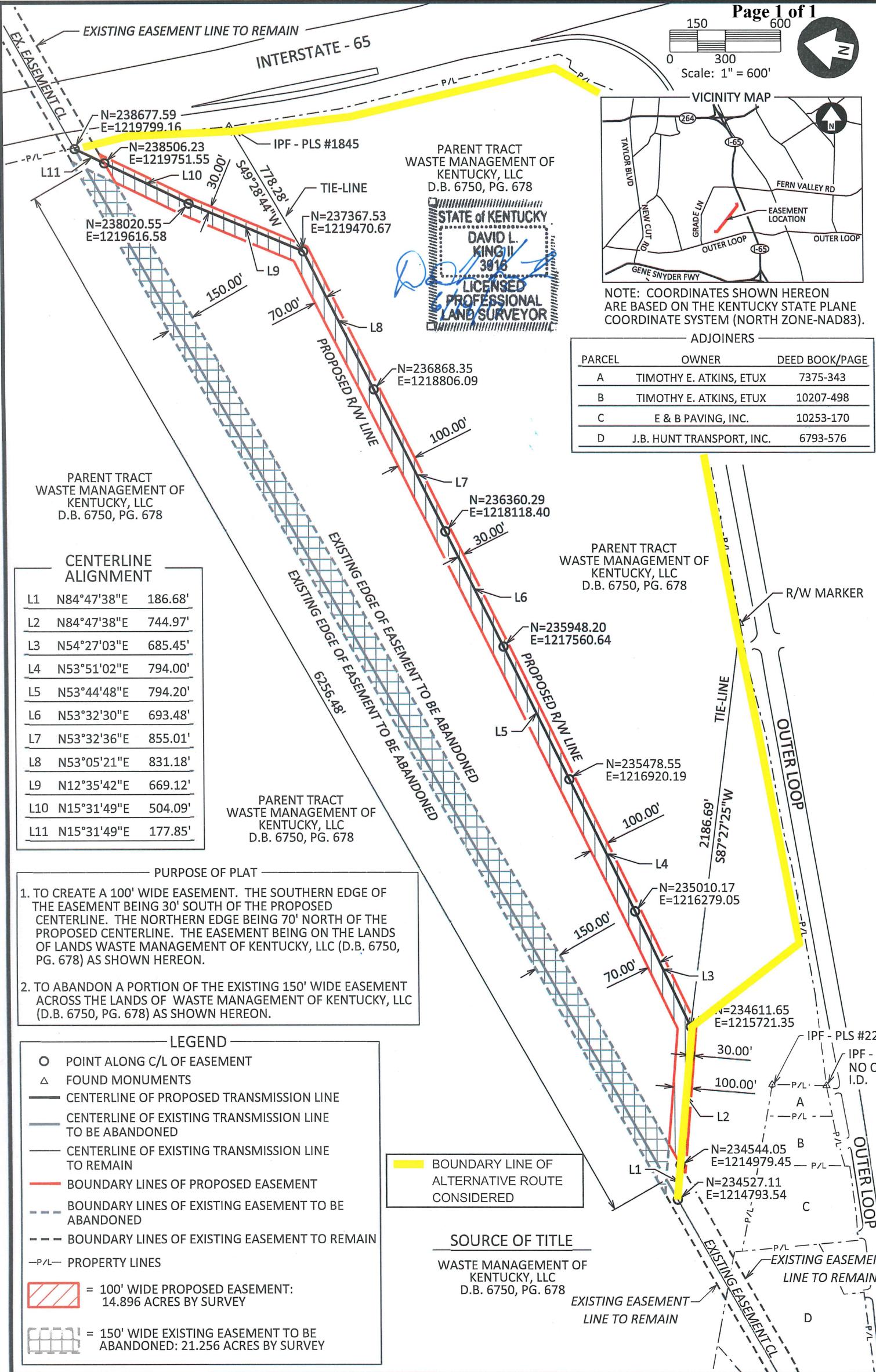
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PARENT TRACT WASTE MANAGEMENT OF KENTUCKY, LLC  
D.B. 6750, PG. 678

STATE OF KENTUCKY  
DAVID L. KING II  
3015  
LICENSED PROFESSIONAL LAND SURVEYOR



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BOUNDARY LINE OF ALTERNATIVE ROUTE CONSIDERED

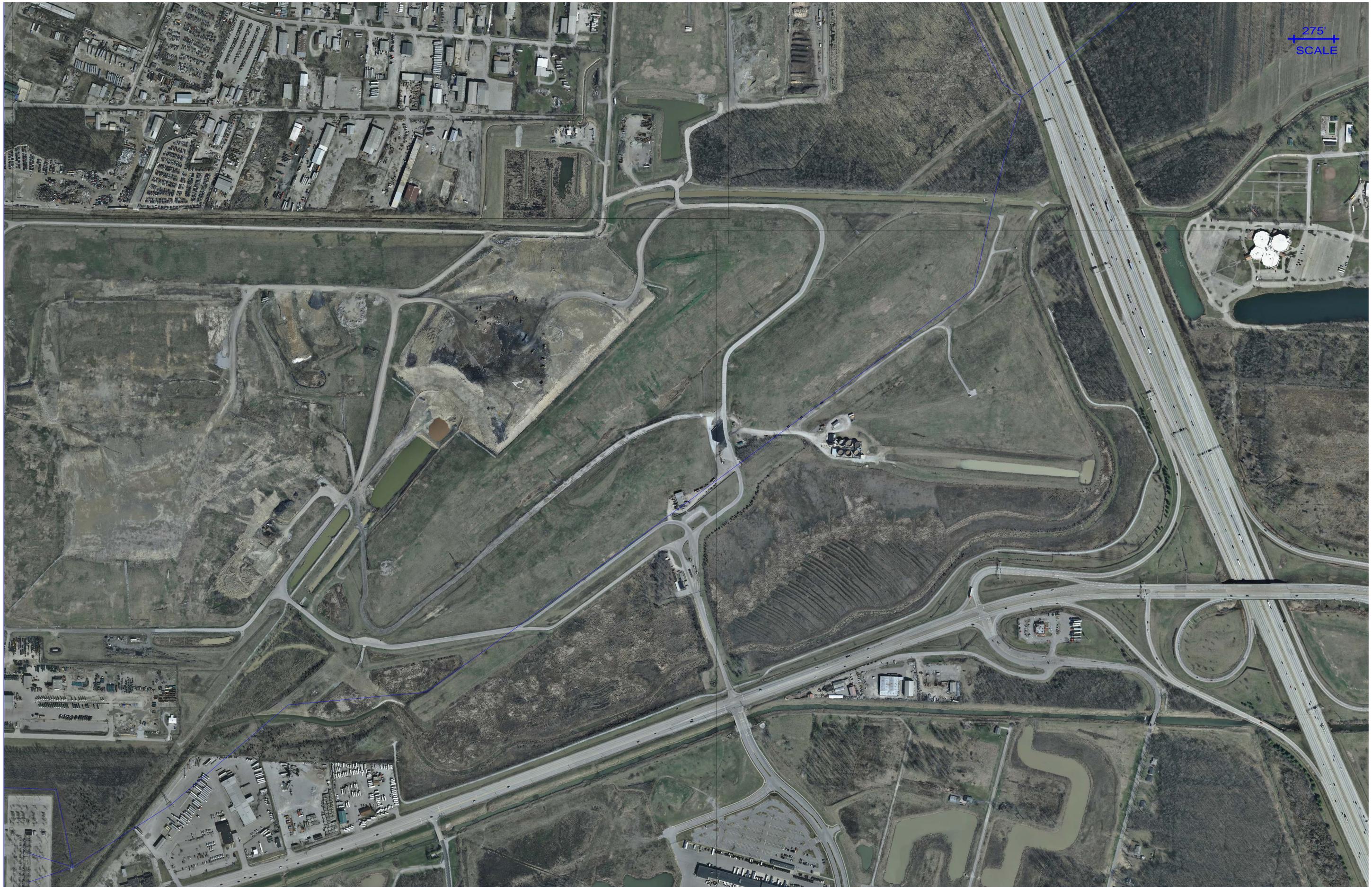
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P.O. BOX 204  
165 FOSTER LANE  
STANFORD, KY 40484  
PHONE (606) 365-8362  
FAX (606) 365-1097

EASEMENT DRAWING  
WASTE MANAGEMENT OF KENTUCKY, LLC  
OUTER LOOP  
LOUISVILLE, JEFFERSON CO., KENTUCKY

DATE: 08/17/2016  
SCALE: 1" = 600'  
DRAWN BY: DRD  
APPROVED BY: GOOCH  
FILENAME: 16197EASEMENT



275'  
SCALE

**Notice delivered to the following property owners:**

Waste Management of Kentucky, LLC  
2673 Outer Loop  
Louisville, KY 40219

June 12, 2017

Waste Management of Kentucky, LLC  
2673 Outer Loop  
Louisville, KY 40219

**RE: Notice of Proposed Construction of Electric Transmission Line**

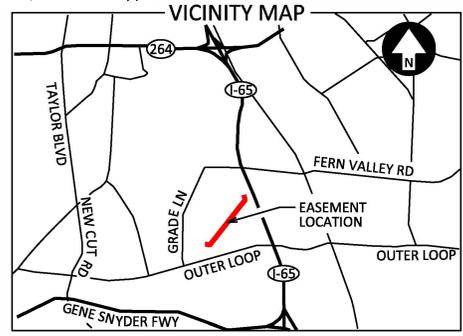
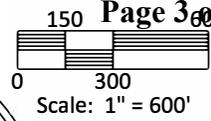
Dear Property Owner:

This letter serves as your official notice that Louisville Gas and Electric Company (“LG&E”) plans to construct a 138 kV electric transmission line on your property. As you are aware, the proposed transmission line will be constructed at your request and will relocate an existing electric transmission line on Waste Management’s Outer Loop Landfill in Jefferson County. The route of the planned line is shown on the map enclosed with this letter.

LG&E plans to file an application with the Kentucky Public Service Commission (“Commission”) on or after June 7, 2017 seeking a certificate of public convenience and necessity authorizing construction of the proposed transmission line. Under Kentucky law, after LG&E has filed its application with the Commission, a property owner has the right to request that the Commission hold a local public hearing regarding the planned line. A property owner also has the right to request intervention in the case. To seek intervention in the Commission’s proceeding on LG&E’s application for a certificate of public convenience and necessity for the proposed transmission line, or to request local public hearing in that case, contact the Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602, telephone number (502) 564-3940. The docket number under which this application will be processed is 2017-00195.

Sincerely,

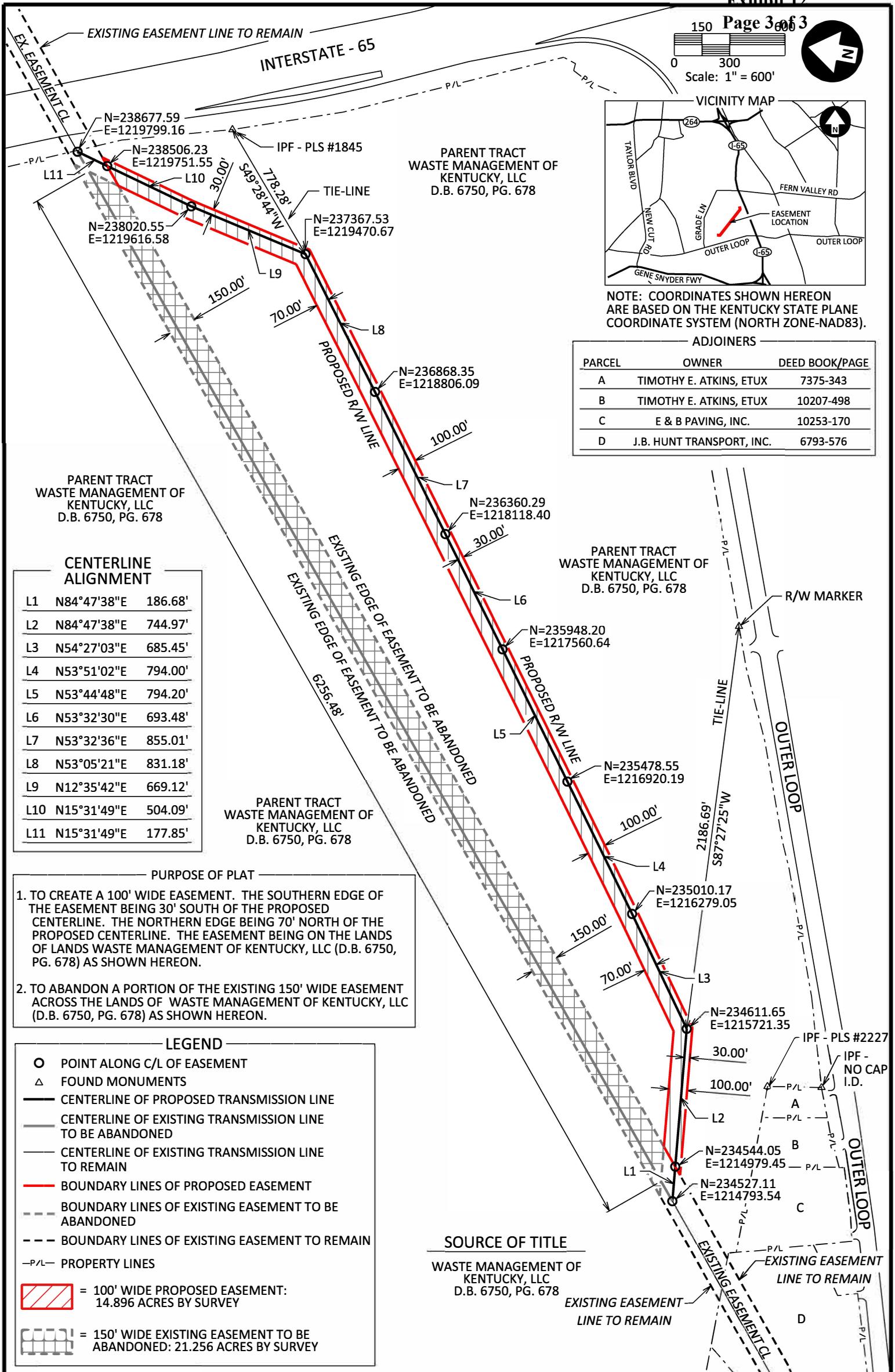
A handwritten signature in cursive script that reads "Adam Smith".



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KENTUCKY, LLC  
D.B. 6750, PG. 678

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WASTE MANAGEMENT OF  
KENTUCKY, LLC  
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P.O. BOX 204  
165 FOSTER LANE  
STANFORD, KY 40484  
PHONE (606) 365-8362  
FAX (606) 365-1097

**EASEMENT DRAWING**  
**WASTE MANAGEMENT OF**  
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**OUTER LOOP**  
LOUISVILLE, JEFFERSON CO., KENTUCKY

DATE: 08/17/2016  
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DRAWN BY: DRD  
APPROVED BY: GOOCH  
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**NOTICE OF PROPOSED ELECTRIC TRANSMISSION  
LINE CONSTRUCTION PROJECT**

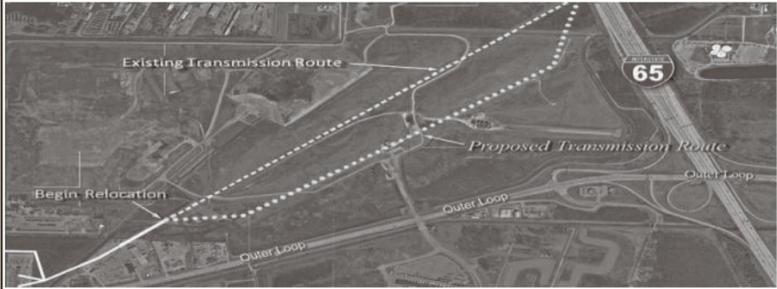
Louisville Gas and Electric Company ("LG&E") proposes to construct a 138 kV electric transmission line approximately 6,000 feet in length to relocate an existing electric transmission line that bisects Waste Management's recycling and disposal facility near KY 1065 (commonly referred to as the "Outer Loop Landfill") in Jefferson County. The relocation of the line, which was requested by Waste Management, would allow Waste Management to operate and accept waste deliveries at the Outer Loop Landfill for several additional years. The proposed transmission line is located entirely on Waste Management's property and Waste Management will pay the construction and relocation costs of the electric transmission line. A map showing the route of the proposed line is shown below.

LG&E plans to file an application with the Kentucky Public Service Commission ("Commission") on or after June 7, 2017, seeking a certificate of public convenience and necessity authorizing construction of the proposed transmission line. The purpose of the Commission's review of LG&E's application is to determine whether the proposed transmission line is required by the public convenience and necessity. Any interested person, including a person over whose property the proposed transmission line will cross, may request intervention in this proceeding, and may request that the Commission conduct a public hearing in Jefferson County.

A person may examine the application through the Commission's web site at <http://psc.ky.gov>. The docket number under which this application will be processed is 2017-00195.

Comments regarding the application may be submitted to the Commission, by mail to Public Service Commission, Post Office Box 615, Frankfort, Kentucky 40602, or by sending an email to the Commission's Public Information Officer at [psc.info@ky.gov](mailto:psc.info@ky.gov). All comments should reference Case No. 2017-00195.

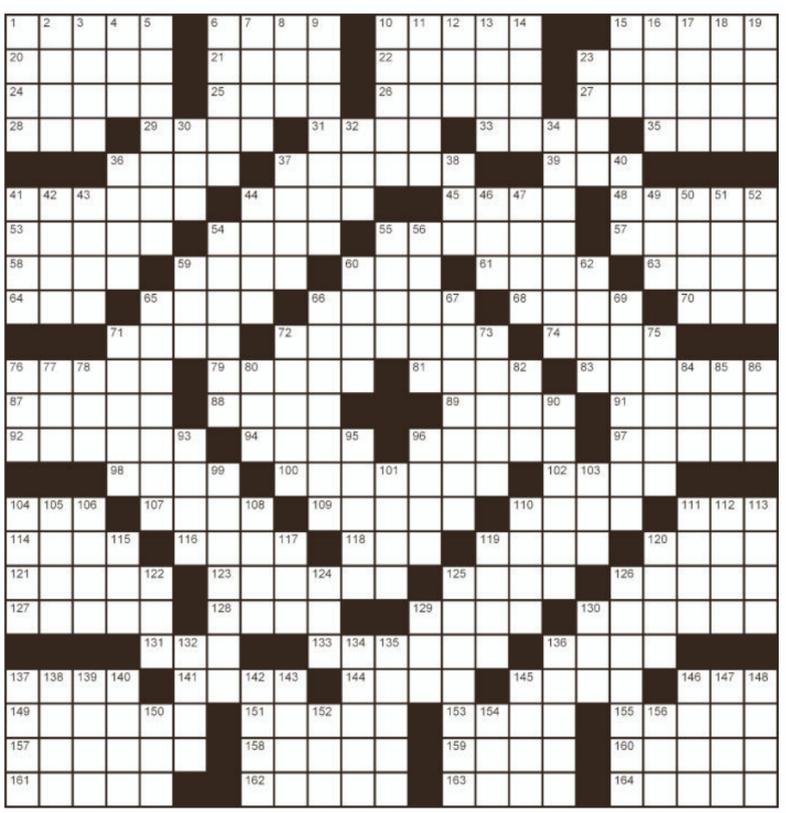
To seek intervention in the Commission's proceeding on LG&E's application for a certificate of public convenience and necessity for the proposed transmission line, or to request a local public hearing in that case, submit a timely written request for intervention to the Public Service Commission, Post Office Box 615, Frankfort, Kentucky 40602. Please include the establishment of grounds for the request including the status and interest of the party. If the Commission does not receive a written request for intervention within thirty (30) days of initial publication or mailing of the notice, the Commission may take final action on the application.



**SUNDAY PUZZLER**

- |        |         |                             |         |                        |               |                  |                    |                 |                 |             |                   |                    |                |           |              |               |                     |                       |                  |             |            |                       |                         |                    |          |                  |         |             |              |        |           |                 |              |             |                   |                          |                       |        |                   |         |            |                    |               |              |                  |              |                       |                 |           |                   |                    |                           |                     |                    |               |                     |                |                     |             |                      |            |                   |                 |                |                        |                |          |             |          |                         |                 |                      |                |           |                 |              |                          |                    |                     |            |                      |            |              |                  |                 |            |                   |                |             |                  |               |               |                  |          |      |             |                |                  |             |           |                       |       |                |                        |           |                     |                  |                      |                     |                 |          |                  |                   |            |             |             |                |                  |                   |                      |                   |           |              |                 |                  |                 |                    |                    |        |                  |                   |                  |                              |              |            |               |              |                          |          |                             |           |                 |                  |                 |               |                 |                            |            |               |           |                          |                 |           |                             |                     |             |            |                   |                    |                |           |            |                  |                    |                |                     |                |               |            |                        |                |               |                  |                        |                |                     |                    |             |                  |           |               |            |             |                    |                     |                |          |                   |                       |             |                   |              |                  |                    |                   |              |             |
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| ACROSS | 1 Darts | 6 Kind of school, for short | 10 Hold | 15 Preliminary version | 20 Defamation | 21 Nerve network | 22 Hoarse-sounding | 23 Barrel maker | 24 Parting word | 25 Formerly | 26 Old anesthetic | 27 Electrical unit | 28 Seed vessel | 29 Fellow | 31 Too hasty | 33 Small room | 35 River in Ireland | 36 Fairy tale monster | 37 Go unsteadily | 38 Devilkin | 41 Tremble | 44 Really, really big | 45 News item, for short | 48 Gather together | 53 Float | 54 Musical sound | 55 Safe | 57 Eye part | 58 So be it! | 59 Tie | 60 - Aviv | 61 Very serious | 63 - monster | 64 - Moines | 65 Utter nonsense | 66 Cut wool from a sheep | 68 Hourglass contents | 70 Pig | 71 Metallic sound | 72 Holy | 74 Raucous | 76 Hoisting device | 79 Water lily | 81 Arab lily | 83 Error (Hyph.) | 87 Happening | 88 Goddess of discord | 89 -the-counter | 91 Lariat | 92 Chain or cover | 94 Spill the beans | 96 Feel about in the dark | 97 "Tempest" sprite | 98 A state (Abbr.) | 100 Swellhead | 102 Cooper or Busey | 104 Used to be | 107 Fiddling despot | 109 Notched | 110 Join metal parts | 111 Liquor | 114 Obsessed with | 116 A plaything | 118 Enthusiast | 119 After-dinner candy | 120 Poi source | 121 Bare | 123 Hot dog | 125 Type | 126 Random numbers game | 127 Depend (on) | 128 Corporate emblem | 129 Cry at sea | 130 Issue | 131 Solemn fear | 133 Billfold | 136 Start for bar or bus | 137 Helper (Abbr.) | 141 Old Norse poems | 144 Autumn | 145 Metallic element | 146 Strike | 149 Remember | 151 Savory jelly | 153 Marine bird | 155 Divert | 157 Magical charm | 158 Fixed gaze | 159 Release | 160 Greek letter | 161 Mouthfuls | 162 Chartered | 163 Ill-mannered | 164 Oust | DOWN | 1 Wing part | 2 Beach resort | 3 Footnote abbr. | 4 Links peg | 5 Batsman | 6 Lying face-downward | 7 Tom | 8 Common abbr. | 9 Nobles, collectively | 10 Summit | 11 Turner's machine | 12 Cigar residue | 13 Detail, for short | 14 Heap for burning | 15 Monk's title | 16 Lasso | 17 Mimicking one | 18 Seedless plant | 19 Sapling | 23 Tranquil | 30 Go wrong | 32 Cakes and - | 34 Word-for-word | 36 Baking chamber | 37 Provide money for | 38 Legendary bird | 40 Drivel | 41 Food fish | 42 Headquarters | 43 Currier and - | 44 Traffic lund | 46 Unopened flower | 47 Rainbow goddess | 49 Cup | 50 Genus of bees | 51 Farm structure | 52 Cabbage salad | 54 Slight stinging sensation | 55 Witnessed | 56 Gladden | 59 Bread roll | 60 A pronoun | 62 Slaughter of baseball | 65 Heron | 66 Knockwurst or liverwurst | 67 Regret | 69 Pudding-head | 71 Spotted horse | 72 Set of steps | 73 Turf chunk | 75 Analog blog? | 76 The First State (Abbr.) | 77 - Maria | 78 Animal doc | 80 Sphere | 82 Certain voter (Abbr.) | 84 Greek letter | 85 Employ | 86 Office seeker, for short | 90 Substitute ruler | 93 Woodwind | 95 Carried | 96 Essential part | 99 Uttered angrily | 101 - de force | 103 Elev. | 104 Desire | 105 Opposing one | 106 Getz or Laurel | 108 Hodgepodge | 110 Thin bul strong | 111 - and rave | 112 Encourage | 113 Anchor | 115 Cousin to an assn. | 117 Table part | 119 Debatable | 120 Small monkey | 122 New Zealand parrot | 124 At present | 125 Place of safety | 126 Gauze dressing | 129 Totally | 130 Wire measure | 132 Wheel | 134 In flames | 135 Spiked | 136 - Carlo | 137 Graceful horse | 138 Partly (Prefix) | 139 Short tail | 140 Yarn | 142 Recipe amount | 143 Italian wine city | 145 Grating | 146 Camel feature | 147 Woe - -! | 148 Bluish-green | 150 French article | 152 Golf standard | 154 Big bird | 156 "Mad -" |
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