



**US Army Corps  
of Engineers**  
Louisville District ®

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# Public Notice

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Public Notice No.  
LRL-2013-1125

Open Date:  
2 Feb 2015

Close Date:  
4 Mar 2015

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Please address all comments and inquiries to:  
U.S. Army Corps of Engineers, Louisville District  
ATTN: Ms. Pam Loeffler, CELRL-OPF-S, Rm 752  
P.O. Box 59  
Louisville, Kentucky 40201-0059

Phone: 502-315-6693

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This notice announces an application submitted for a Department of the Army (DA) Permit, subject to Section 404 of the Clean Water Act:

APPLICANT: Bayer Properties, LLC  
2222 Arlington Avenue  
Birmingham, AL 35205

AGENT: Vision Engineering, LLC  
3399 Tates Creek Road, Suite 130  
Lexington, KY 40502

LOCATION: Unnamed tributaries to West Hickman Creek and adjacent wetlands on property located at 4100 Nicholasville Road in Lexington, Fayette County, Kentucky

Latitude: 37.977474  
Longitude: -84.5247951  
7.5 Minute Quad: KY-Nicholasville

PURPOSE: To construct the Summit at Fritz Farm multi-use development.

DESCRIPTION OF WORK: The applicant proposes to construct a mixed-use development including parking lots, building structures, and associated infrastructure. The project would result in impacts to 560 linear feet (lft) (0.038 acre) of perennial stream, 510 lft (0.035 acre) of intermittent stream, 350 lft (0.047 acre) of ephemeral channel, and 0.19 acre of three palustrine emergent wetlands. A total of 0.31 acre of waters of the United States (U.S.) would be lost as a result of the proposed project.

Stormwater management would be addressed through the use of an Underground Gravel Filtration (UGF) system installed at a central location within the development. Construction of the UGF would impact Wetland 1 and the upper reach of Perennial 1, as shown on Sheet E-3C of the attached plans. A portion of the stormwater would be directed to the UGF prior to exiting the property via Perennial Stream 3 that flows off the property into an existing stormwater system above West

Hickman Creek.

AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES: Existing channels are located within the center of the property, making avoidance of impact to waters of the U.S. impossible. The applicant proposes compensation for unavoidable impacts through in-lieu fees and proposed onsite enhancement. Stream enhancement is proposed at the eastern section of the property, where the existing channel's floodplain would be lowered and planted with native species. Wetland areas would be constructed upstream of the existing off-site storm system. Two wetlands would be constructed, each 0.20 acre in size, and planted with native species in accordance with the plans shown on attached Sheet E-6.

It is noted that this proposed mitigation plan is open to comment and subject to change. The Corps will make a determination of appropriate mitigation, upon review of all submitted information.

REVIEW PROCEDURES: A DA Permit cannot be issued if any legally required Federal, State, or local authorization or certification is denied. A DA permit, if otherwise warranted, will not be issued until a State of Kentucky Water Quality Certification or waiver is on file at this office. In order to comply with Section 401 of the Clean Water Act, the applicant must apply for State certification from the Kentucky Energy and Environment Cabinet Division of Water (KDOW).

Copies of this notice are sent to the appropriate Federal and State Fish and Wildlife Agencies. Their views and comments are solicited in accordance with the Fish and Wildlife Coordination Act of 1956. Based on available information, the proposed activity will not destroy or endanger any Federally-listed threatened or endangered species or their critical habitats, as identified under the Endangered Species Act, and therefore, initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. A request for a public hearing must state the specific interest, which might be damaged by issuance of the DA Permit.

One known National Register of Historic Places (NRHP)-eligible property is located in the project tract and the applicant has contracted with a professional archaeologist that meets or exceeds the Secretary of the Interior's Standards for Professional Qualifications to conduct a Phase I survey of the project tract. Once the Corps receives the reports documenting the Cultural Historic and archaeological surveys, the Corps will review the information and make a determination of effect. The determination of effect will be coordinated with the Kentucky Heritage Council and any other consulting parties as appropriate. If we are made aware, as a result of comments received in response to this notice, or by others means,

of specific archaeological, scientific, prehistoric, or historical sites or structures which might be affected by the proposed work, the District Engineer will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966 - Public Law 89-665 as amended (including Public Law 96-515).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered; among those are conservation, economics, aesthetic values, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use, navigation, recreation, water supply, water quality, energy needs, safety, food production, and in general, the needs and welfare of the public. In addition, the evaluation of the impact of the activity on the public interest will include application of the guidelines (40 CFR Part 230) promulgated by the Administrator, United States Environmental Protection Agency, under authority of Section 404(b) of the CWA.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. It is presumed that all interested parties and agencies will wish to respond; therefore, a lack of response will be interpreted as meaning that there is no objection to the proposed project. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written statements received in this office on or before the closing date will become a part of the official record and will be considered in the determination on this permit request. Any objections which are received during this period will be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. A permit will be granted unless its issuance is found to be contrary to the public interest.

Information pertaining to this application is available for public examination during normal business hours upon prior request. Drawings are available on Louisville District's Internet site at

Operations Division  
Regulatory Branch (South)  
Public Notice No. LRL-2013-1125-pjl

<http://www.lrl.usace.army.mil/Missions/Regulatory.aspx>. All comments regarding this proposal should be addressed to Pam Loeffler, CELRL-OP-FS at the address noted above and should refer to the Public Notice Number LRL-2013-1125-pjl.

If you desire to submit your comments by email, you must comply with the following:

a) In the subject line of your email, type in **ONLY** the Public Notice ID No. LRL-2013-1125-pjl.

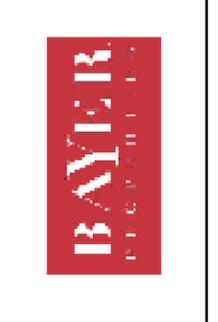
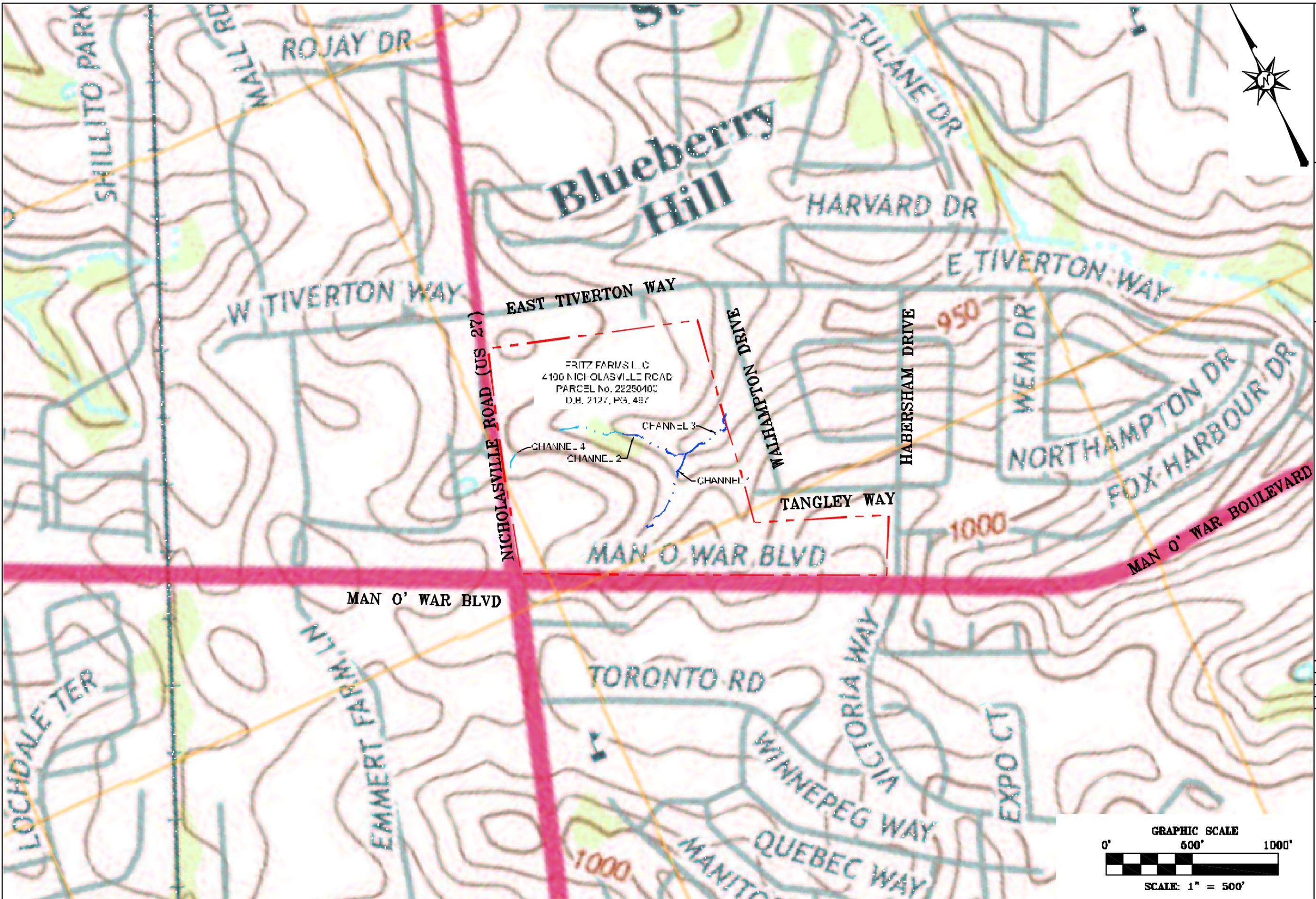
Example:

Subject: LRL-2013-1125-pjl

b) Provide your physical mailing address and telephone number.

c) Send your email to: [lrl.regulatorypubliccomment@usace.army.mil](mailto:lrl.regulatorypubliccomment@usace.army.mil).

d) If you are sending attachments greater than 1 Mb in size with your email, you must send a hard copy (CD or paper) to the Corps' physical address as well.

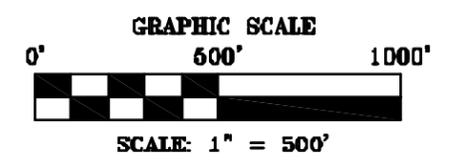


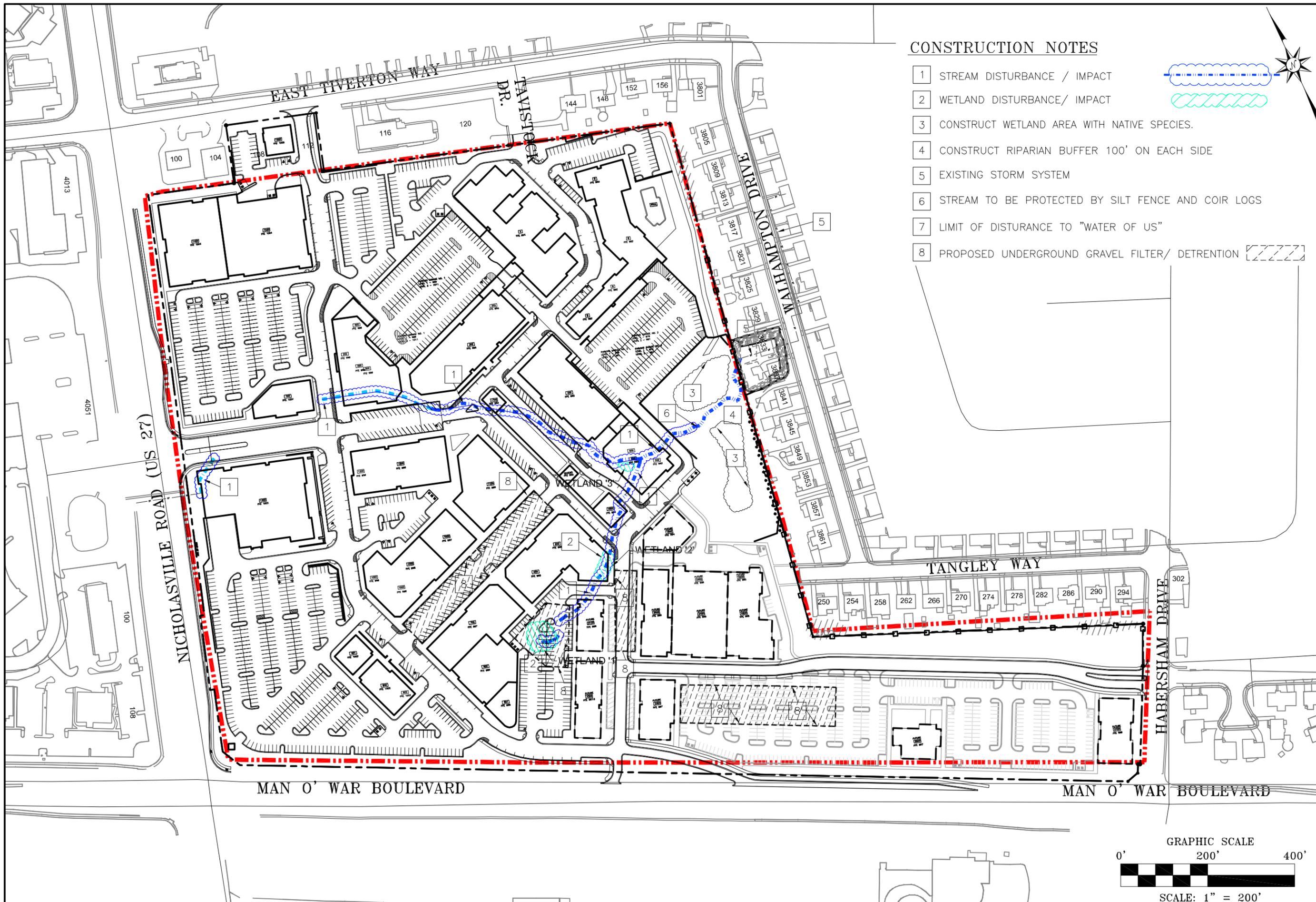
**FRITZ FARM**  
**NICHOLASVILLE ROAD (US 27)**  
 -LEXINGTON, FAYETTE COUNTY, KENTUCKY-  
**ENVIRONMENTAL PLAN**

DATE: AUGUST 22, 2014

PROJECT VICINITY USCS

**E-2**





**CONSTRUCTION NOTES**

- 1 STREAM DISTURBANCE / IMPACT
- 2 WETLAND DISTURBANCE/ IMPACT
- 3 CONSTRUCT WETLAND AREA WITH NATIVE SPECIES.
- 4 CONSTRUCT RIPARIAN BUFFER 100' ON EACH SIDE
- 5 EXISTING STORM SYSTEM
- 6 STREAM TO BE PROTECTED BY SILT FENCE AND COIR LOGS
- 7 LIMIT OF DISTURANCE TO "WATER OF US"
- 8 PROPOSED UNDERGROUND GRAVEL FILTER/ DETRENTION

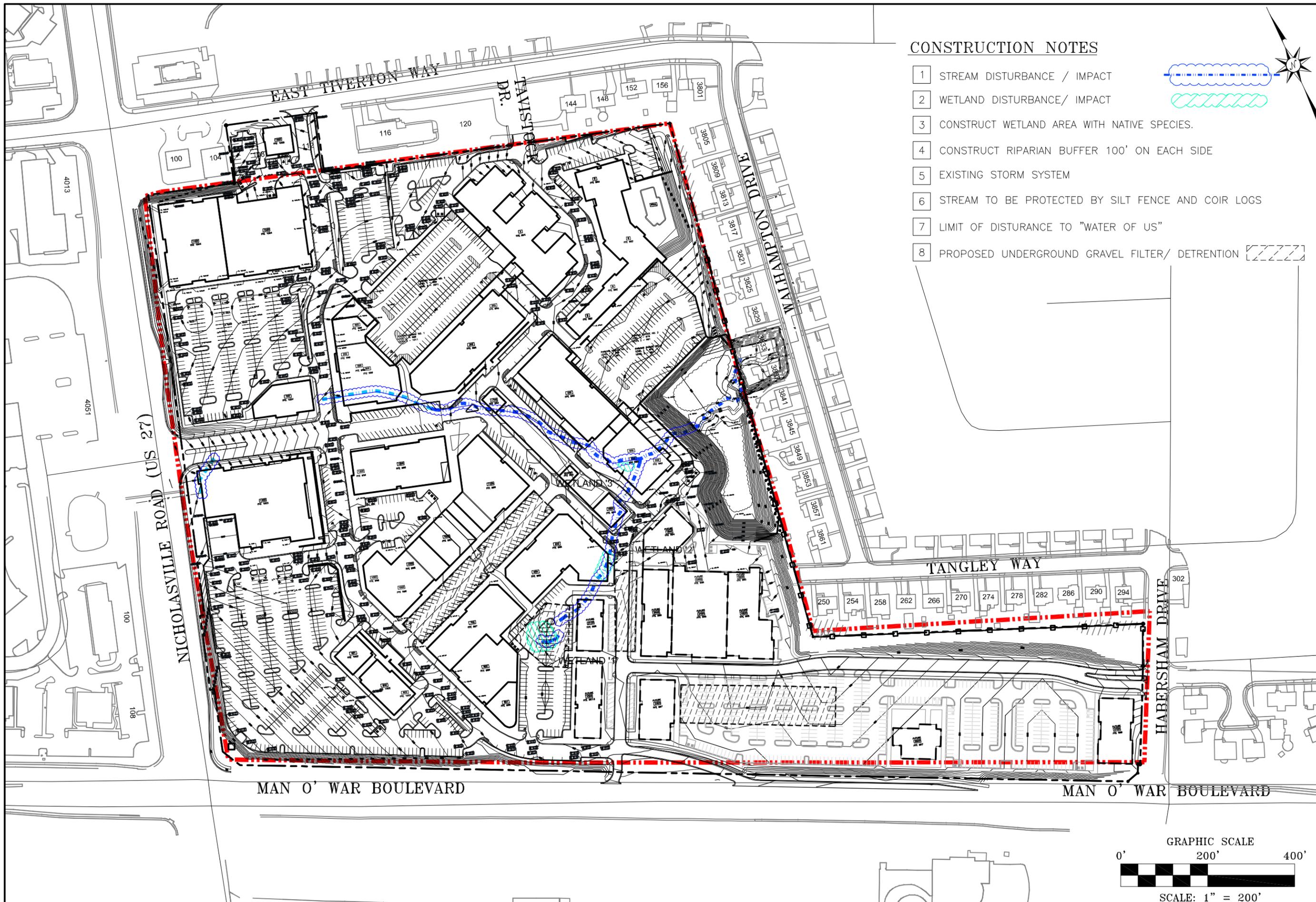
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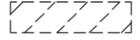
DATE: AUGUST 21, 2014  
 REV: DECEMBER 9, 2014

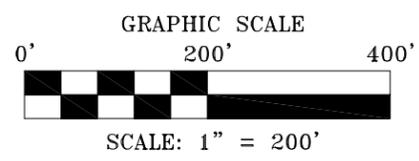
STORM WATER  
 MANAGEMENT PLAN

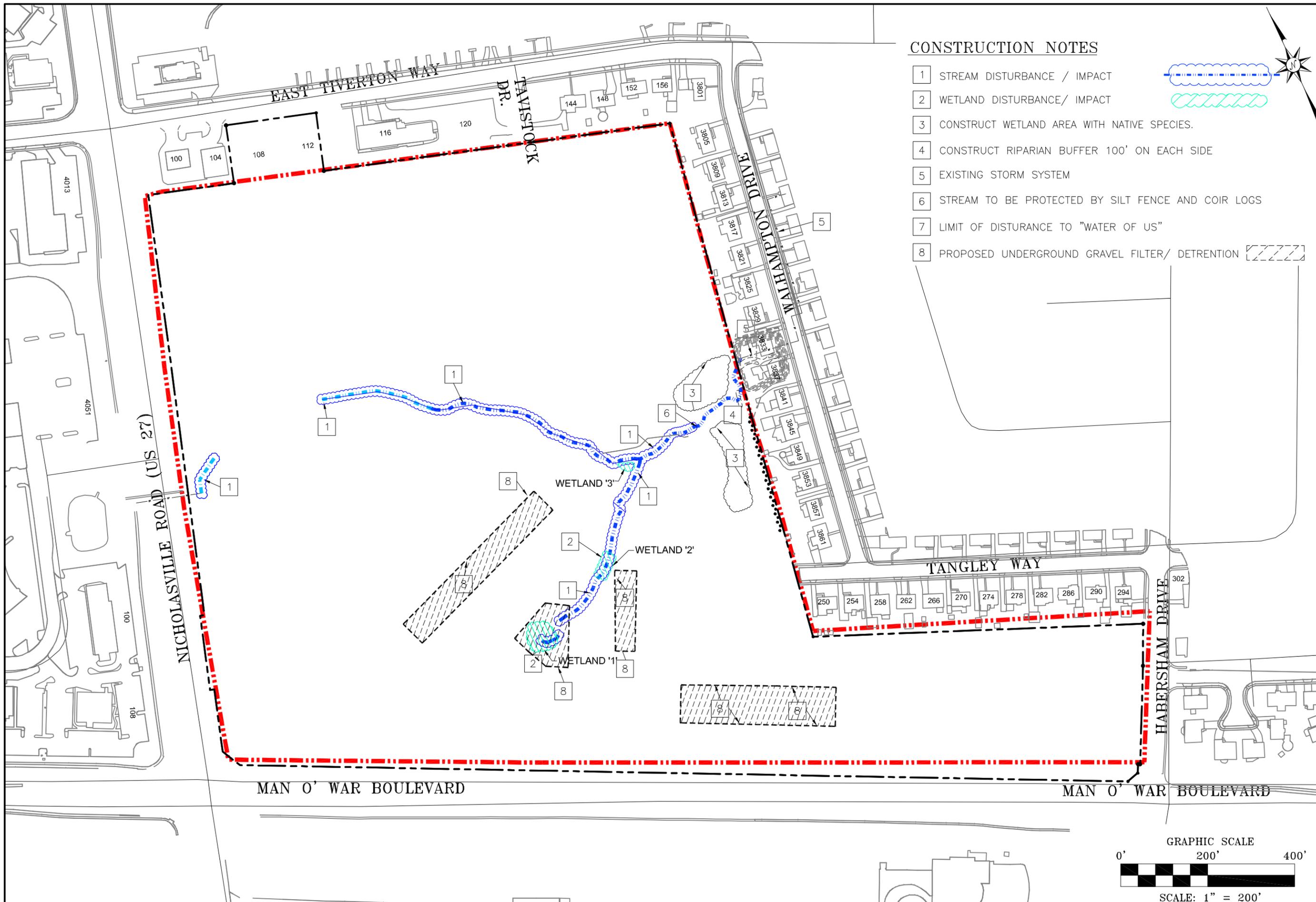
E-3A



**CONSTRUCTION NOTES**

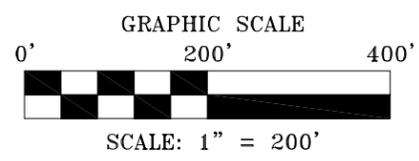
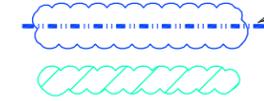
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**CONSTRUCTION NOTES**

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**FRITZ FARM**  
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 LEXINGTON, FAYETTE COUNTY, KENTUCKY  
**ENVIRONMENTAL PLAN**

DATE: AUGUST 21, 2014  
 REV: DECEMBER 9, 2014

STORM WATER MANAGEMENT PLAN  
**E-3C**

EROSION CONTROL BLANKET NOTES:

1. THE BLANKET SHALL BE A WOVEN COIR FIBER BLANKET AND CONSIST OF 100% MATTRESS GRADE COCONUT FIBER WITH A DENSITY GREATER THAN OR EQUAL TO 20 OZ./SY. THE COIR FIBER BLANKET SHALL BE GEOCOIR/DEKOWE 700 OR APPROVED EQUAL.
2. BLANKET SHALL BE INSTALLED DURING LOW FLOW CONDITIONS.
3. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF SEED AS SPECIFIED.
4. THE BLANKET SHALL BE ROLLED OUT IN THE DIRECTION OF THE ANTICIPATED RUN-OFF FLOW AND INSTALLED FROM THE TOE OF THE CHANNEL TO THE TOP OF THE BANK, AND INTO ALL GRADED RIPARIAN AREAS.
5. TO INSTALL THE EROSION CONTROL BLANKET, LAY THE EROSION CONTROL BLANKET DOWN, PLACE BANK MATERIAL ON THE EROSION CONTROL BLANKET AND FORM THE CHANNEL BANK. THEN ROLL THE EROSION CONTROL BLANKET OVER THE BANK AND ANCHOR THE TOP EDGE IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING.
6. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. OVERLAP BLANKETS 4" OVER THE CENTER BLANKET AND SECURE. THE TOP, BOTTOM, AND UPSTREAM EDGE OF THE FABRIC SHALL BE BURIED AND STAKED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. THE STAKES SHALL BE NOTCHED AT THE TOP WITH THE FOLLOWING DIMENSIONS 1" X 2" X 12".
7. STAKES BE PLACED EVERY 2' ON CENTER, WITH A ROW ALONG EACH EDGE OF THE BLANKET.
8. THE TERMINAL END OF THE BLANKETS MUST BE BURIED AND STAKED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING
9. REWORK AREAS THAT BECOME UNSTABLE OR DO NOT ESTABLISH VEGETATION.

**TABLE 1: STREAM AND WETLAND IMPACTS**

IMPACT TABLE	QUALITY	LINEAR FEET (FT)	STREAM WIDTH (FT)	DISTURBED AREA (AC)
PERENNIAL STREAM CHANNEL 1 CONFLUENCE OF CHANNELS 1 & 2 TO WETLAND B	POOR	255	3.0	0.018
PERENNIAL STREAM CHANNEL 1 WETLAND B TO WETLAND A	POOR	170	2.0	0.008
INTERMITTENT STREAM CHANNEL 2	POOR	510	3.0	0.035
EPHEMERAL STREAM CHANNEL 2	POOR	260	2.0	0.012
EPHEMERAL STREAM CHANNEL 2	POOR	90	1.0	0.002
PERENNIAL STREAM CHANNEL 3	POOR	135	4.0	0.012
TOTAL STREAM IMPACT AND DISTURNANCE (ACRE)				0.087
WETLAND IMPACT AND DISTURNANCE				
WETLAND 1	POOR			0.090
WETLAND 2	POOR			0.040
WETLAND 3	POOR			0.060
TOTAL WETLAND IMPACT AND DISTURNANCE (ACRE)				0.190
TOTAL IMPACT OF STREAM AND WETLANDS (ACRE)				0.277

**TABLE 2: STREAM ENHANCEMENT**

STREAM IMPROVEMENT	STREAM QUALITY	PROP. STREAM QUALITY	LINEAR FEET (FT)	ENHANCEMENT TYPE
PERENEAL STREAM CHANNEL 3	POOR	EXCELENT	200	50' RIPARIAN BUFFER

**TABLE 3: CONSTRUCTED WETLAND**

CONSTRUCTED WETLAND	PROP. WETLAND QUALITY	WETLAND AREA (AC)	ENHANCEMENT TYPE
WETLAND A	EXCELENT	0.200	NATIVE SPECIES
WETLAND B	EXCELENT	0.200	NATIVE SPECIES



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**FRITZ FARM  
 NICHOLASVILLE ROAD (US 27)**  
 LEXINGTON, FAYETTE COUNTY, KENTUCKY  
**ENVIRONMENTAL PLAN**

DATE: AUGUST 22, 2014  
 REV: DECEMBER 9, 2014

STREAM AND WETLAND DATA  
 EROSION CONTROL NOTES

**E-4**

**RIPARIAN ZONE PLANTING SCHEDULE**

TREES		
COMMON NAME	SCIENTIFIC NAME	MATERIAL
CHESTNUT OAK	QUERCUS MONTANA	CONTAINER GROWN/SEEDLING
TULIPTREE, YELLOW-POPLAR	LIRIODENDRON TULIPIFERA	CONTAINER GROWN/SEEDLING
PIGNOT HICKORY	CARYA GLABRA	CONTAINER GROWN/SEEDLING
MOCKERNUT HICKORY	CARYA TOMENTOSA	CONTAINER GROWN/SEEDLING
BLACK GUM	NYSSACEAE SYLVATICA	CONTAINER GROWN/SEEDLING
VIRGINIA PINE	PINUS VIRGINIANA	CONTAINER GROWN/SEEDLING
AMERICAN BEECH	FAGUS GRANDIFOLIA	CONTAINER GROWN/SEEDLING
SUGAR MAPLE	ACER SACCHARUM	CONTAINER GROWN/SEEDLING
BLACK WALNUT	JUGLANS NIGRA	CONTAINER GROWN/SEEDLING
SASSAFRAS	SASSAFRAS ALBIDUM	CONTAINER GROWN/SEEDLING
SYCAMORE	PLATANUS OCCIDENTALIS	CONTAINER GROWN/SEEDLING
BOX ELDER	ACER NEGUNDO	CONTAINER GROWN/SEEDLING
BLACK WILLOW	SALIX NIGRA	CONTAINER GROWN/SEEDLING

NOTE: NO SINGLE SPECIES SHALL COMPRISE MORE THAN 25% OF THE TOTAL.

SHRUBS		
COMMON NAME	SCIENTIFIC NAME	MATERIAL
ELDERBERRY	SAMBUCUS CANADENSIS	CONTAINER GROWN/SEEDLING
SPICEBUSH	LINDERA BENZOIN	CONTAINER GROWN/SEEDLING
FLOWERING DOGWOOD	CORNUS FLORIDA	CONTAINER GROWN/SEEDLING
REDBUD	CERCIS CANADENSIS	CONTAINER GROWN/SEEDLING
WILD HYDRANGEA	HYDRANGEA ARBORESCENS	CONTAINER GROWN/SEEDLING
MAPLE LEAF VIBURNUM	VIRBURNUM ACERIFOLIUM	CONTAINER GROWN/SEEDLING
BLACKHAW VIRBURNUM	VIBURNUM PRUNIFOLIUM	CONTAINER GROWN/SEEDLING
CORALBERRY	SYMPHORICARPOS ORBICULATUS	CONTAINER GROWN/SEEDLING

HERBACEOUS		
COMMON NAME	SCIENTIFIC NAME	MATERIAL
BUTTERFLY MILKWEED	ASCLEPIAS TUBEROSA	CONTAINER GROWN/PLUG
THIN LEAVED SUNFLOWER	HELIANTHUS DECAPETALUS	CONTAINER GROWN/PLUG
BLACK-EYED SUSAN	RUDBECKIA HIRTA	CONTAINER GROWN/PLUG
BLUE WILD INDIGO	BAPTISIA AUSTRALIS	CONTAINER GROWN/PLUG
PURPLE CONEFLOWER	ECHINACEA PURPUREA	CONTAINER GROWN/PLUG
COMMON MILKWEED	ASCLEPIAS TSYRIACA	CONTAINER GROWN/PLUG
PURPLE NODE JOE PYE WEED	EUPATORIUM PURPUREUM	CONTAINER GROWN/PLUG
WILD BERGAMONT	MONARDA FISTULOSA	CONTAINER GROWN/PLUG
RUSH	JUNCUS SP	CONTAINER GROWN/PLUG
BEGGAR'S TICK	BIDENS VULGATA	CONTAINER GROWN/PLUG

NOTE: NO SINGLE SPECIES SHALL COMPRISE MORE THAN 25% OF THE TOTAL.

**WETLAND PLANTING SCHEDULE**

OVERSTORY			WETLAND	
COMMON NAME	SCIENTIFIC NAME	MATERIAL	1	2
BOX ELDER	Acer negundo	CONTAINER GROWN/SEEDLING	X	X
WATER HICKORY	Carya aquatica	CONTAINER GROWN/SEEDLING	X	X
SHELLBARK HICKORY	Carya lacinosa	CONTAINER GROWN/SEEDLING	X	X
SUGARBERRY	Celtis laevigata	CONTAINER GROWN/SEEDLING	X	X
BLACK WALNUT	Juglans nigra	CONTAINER GROWN/SEEDLING	X	X
EASTERN REDCEDAR	Juniperus virginiana	CONTAINER GROWN/SEEDLING	X	X
BLACKGUM	Nyssa sylvatica	CONTAINER GROWN/SEEDLING	X	X
SWAMP COTTONWOOD	Populus heterophylla	CONTAINER GROWN/SEEDLING	X	X
SWAMP WHITE OAK	Quercus bicolor	CONTAINER GROWN/SEEDLING	X	X
PIN OAK	Quercus palustris	CONTAINER GROWN/SEEDLING	X	X
CHERRYBARK OAK	Quercus pagoda	CONTAINER GROWN/SEEDLING	X	X
BUR OAK	Quercus macrocarpa	CONTAINER GROWN/SEEDLING	X	X
SWAMP CHESTNUT OAK	Quercus michauxii	CONTAINER GROWN/SEEDLING	X	X
BLACK WILLOW	Salix nigra	CONTAINER GROWN/SEEDLING	X	X

NOTE: NO SINGLE SPECIES SHALL COMPRISE MORE THAN 25% OF THE TOTAL.

UNDERSTORY			WETLAND	
COMMON NAME	SCIENTIFIC NAME	MATERIAL	1	2
AMERICAN ELDER	Sambucus canadensis	CONTAINER GROWN/SEEDLING	X	X
BUTTON BUSH	Cephalanthus occidentalis	CONTAINER GROWN/SEEDLING	X	X
CORAL BERRY	Symphoricarpos orbiculatus	CONTAINER GROWN/SEEDLING	X	X
DECIDUOUS HOLLY	Ilex decidua	CONTAINER GROWN/SEEDLING	X	X
SILKY DOGWOOD	Cornus amomum	CONTAINER GROWN/SEEDLING	X	X
GRAY DOGWOOD	Cornus racemosa	CONTAINER GROWN/SEEDLING	X	X
SPICE BUSH	Lindera benzoin	CONTAINER GROWN/SEEDLING	X	X
ARROW-WOOD	Viburnum dentatum	CONTAINER GROWN/SEEDLING	X	X
PERSIMMON	Diospyros virginiana	CONTAINER GROWN/SEEDLING	X	X
AMERICAN HORNBEAM	Carpinus caroliniana	CONTAINER GROWN/SEEDLING	X	X
WITHE-ROD	Viburnum cassinodes	CONTAINER GROWN/SEEDLING	X	X
SWAMP PRIVET	Forestiera acuminata	CONTAINER GROWN/SEEDLING	X	X
WINTERBERRY	Ilex verticillata	CONTAINER GROWN/SEEDLING	X	X
SWAMP ROSE	Rosa palustris	CONTAINER GROWN/SEEDLING	X	X

NOTE: NO SINGLE SPECIES SHALL COMPRISE MORE THAN 25% OF THE TOTAL.

HERBACEOUS			WETLAND	
COMMON NAME	SCIENTIFIC NAME	MATERIAL	1	2
SWEET FLAG	Acorus calamus	CONT.-GROWN/PLUG	X	X
WATER-PLANTAIN	Alisma subcordatum	CONT.-GROWN/PLUG	X	X
BEGGARTICKS	Bidens spp.	CONT.-GROWN/PLUG	X	X
SEDGES	Carex spp.	CONT.-GROWN/PLUG	X	X
FLATSEDES	Cyperus spp.	CONT.-GROWN/PLUG	X	X
CHUFA	Cyperus esculentus	CONT.-GROWN/PLUG	X	X
NUTSEDES	Cyperus strigosus	CONT.-GROWN/PLUG	X	X
WILD MILLET	Echinochloa muricata	CONT.-GROWN/PLUG	X	X
SPIKERUSHES	Eleocharis spp.	CONT.-GROWN/PLUG	X	X
JEWELWEED	Impatiens spp.	CONT.-GROWN/PLUG	X	X
CUTGRASS	Leersia spp.	CONT.-GROWN/PLUG	X	X
CLEARWEED	Pilea pumila	CONT.-GROWN/PLUG	X	X
ARROWHEAD	Sagittaria spp.	CONT.-GROWN/PLUG	X	X
BULRUSHES	Scirpus spp.	CONT.-GROWN/PLUG	X	X

NOTE: NO SINGLE SPECIES SHALL COMPRISE MORE THAN 25% OF THE TOTAL.  
\*CONT.-GROWN/PLUG - APPROXIMATELY 2.25" DIA x 4.75" DEEP

GROUND COVER / NATIVE SEED			WETLAND	
COMMON NAME	SCIENTIFIC NAME	RATE	1	2
REDTOP	Agrostis alba	2.5 LBS PLS/AC	X	X
SPANGLE GRASS	Chasmanthium latifolium	2.5 LBS PLS/AC	X	X
BARNYARD GRASS	Echinochloa crus-galli	2.5 LBS PLS/AC	X	X
WILD RYE	Elymus virginicus	2.5 LBS PLS/AC	X	X
MANAGRASS	Glyceria striata	2.5 LBS PLS/AC	X	X
RICE CUTGRASS	Leersia oryzoides	2.5 LBS PLS/AC	X	X
SWITCH GRASS	Panicum canadensis	2.5 LBS PLS/AC	X	X
DEERTONGUE GRASS	Panicum dandestinum	2.5 LBS PLS/AC	X	X
PANIC GRASS	Panicum macrocarpon	2.5 LBS PLS/AC	X	X
ANNUAL RYE	Secale cereale	2.5 LBS PLS/AC	X	X
ALSIKE CLOVER	Trifolium hybridum	2.5 LBS PLS/AC	X	X

NOTE: KENTUCKY 31 FESCUE IS NOT TO BE USED

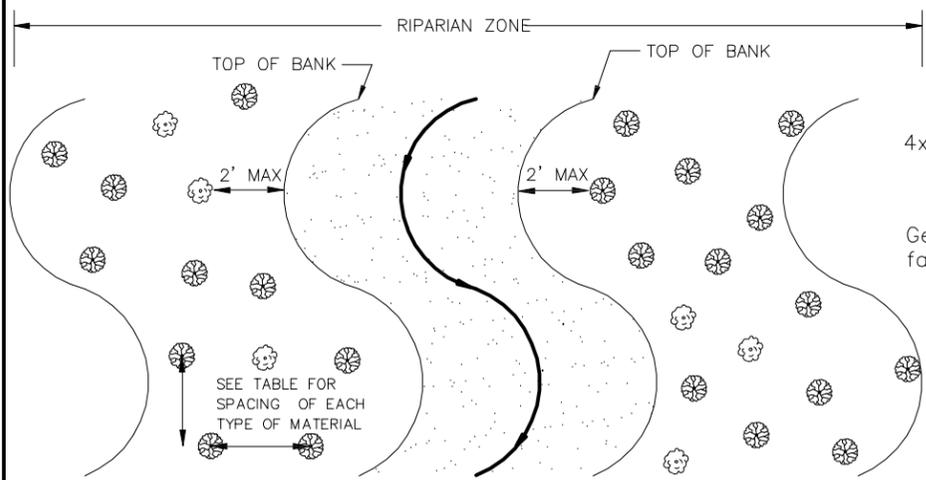


**FRITZ FARM**  
**NICHOLASVILLE ROAD (US 27)**  
 LEXINGTON, FAYETTE COUNTY, KENTUCKY  
**ENVIRONMENTAL PLAN**

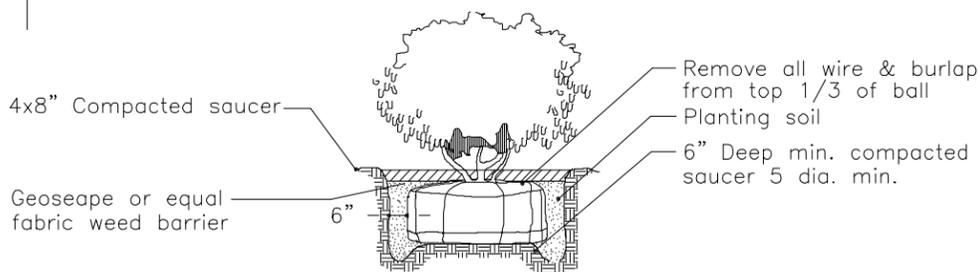
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PLANTING SCHEDULE AND INFORMATION

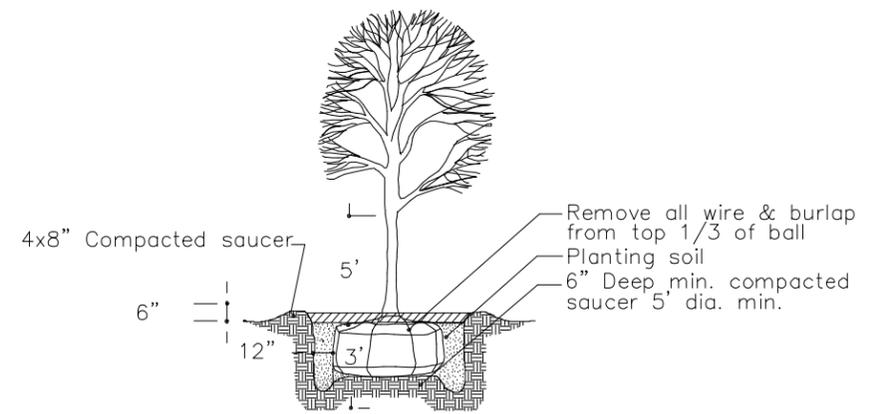
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**TREE PLANTING DETAIL**



**SHRUB PLANTING DETAIL**  
NTS



**TREE PLANTING DETAIL**  
NTS

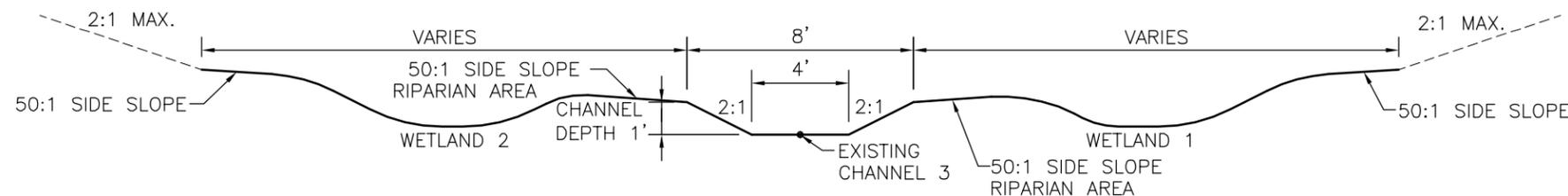
**RIPARIAN ZONE-FRITZ FARM DEVELOPMENT-PLANT QUANTITIES, RATES & SPACING**

ZONE	SIZE (AC)	TREES / 3 GAL.			SMALL TREES / SHRUBS		OVERALL SPACING FOR ALL CONTAINER TREES & SHRUBS	BARE-ROOT SEEDLINGS	
		SYMBOL	QNTY/ACRE	QNTY	QNTY/ACRE	QNTY		SPACING, FT OC	QNTY/ACRE
1	0.50	⊙	100	50	18	9	25	400	200
TOTAL					50	9			200

**WETLAND PLANT QUANTITIES, RATES & SPACING**

WETLAND	SIZE (AC)	TREES / 5 GAL.			SMALL TREES / SHRUBS		OVERALL SPACING FOR ALL CONTAINER TREES & SHRUBS	BARE-ROOT SEEDLINGS		OVERALL SPACING FOR BARE-ROOT SEEDLINGS		HERBACEOUS	
		SYMBOL	QNTY/ACRE	QNTY	QNTY/ACRE	QNTY		SPACING, FT OC	QNTY/ACRE	QNTY	SPACING, FT OC	QNTY/ACRE	QNTY
1	.20	⊙	100	20	18	4	25	370	74	11.5	194	39	
2	.20	⊙	100	25	18	4	25	370	74	11.5	194	39	
TOTAL					45	9			167			78	

NOTE: NO SINGLE SPECIES (TREE, SHRUB OR HERBACEOUS) SHALL COMPRISE MORE THAN 25% OF THE TOTAL.



**CHANNEL SECTION BETWEEN CHANNEL 3**  
NOT TO SCALE

**COVER CROP**

- WINTER OATS \_\_\_\_\_ 90 LBS/ACRE (AVENA SATIVA L)
- DEER-TONGUE GRASS \_\_\_\_\_ 2.5 LBS PLS/ACRE (DICHANTHELIUM CLANDESTINUM)
- PANIC GRASS \_\_\_\_\_ 2.5 LBS PLS/ACRE (PANICUM CANADENSIS)
- SWITCH GRASS \_\_\_\_\_ 2.5 LBS PLS/ACRE (PANICUM CANADENSIS)
- WILD RYE \_\_\_\_\_ 2.5 LBS PLS/ACRE (ELYMUS VIRGINICUS)

**NATIVE SEED**

- SWITCHGRASS \_\_\_\_\_ 2.5 LBS PLS/ACRE (PANICUM VIRGATUM)
- DEER-TONGUE GRASS \_\_\_\_\_ 2.5 LBS PLS/ACRE (DICHANTHELIUM CLANDESTINUM)
- LITTLE BLUESTEM \_\_\_\_\_ 2.5 LBS PLS/AC (SCHIZACHYRIUM SCOPARIUM)
- INDIAN GRASS \_\_\_\_\_ 2.5 LBS PLS/ACRE (SORGHASTRUM NUTANS)
- BLACK-EYED SUSAN \_\_\_\_\_ 6 OZ PLS/ACRE (RUDBECKIA HIRTA)
- PARTRIDGE PEA \_\_\_\_\_ 5 LBS/ACRE (CHAMAECRISTA FASCICULATA)



**FRITZ FARM**  
**NICHOLASVILLE ROAD (US 27)**  
LEXINGTON, FAYETTE COUNTY, KENTUCKY  
**ENVIRONMENTAL PLAN**

DATE: AUGUST 22, 2014  
REV: DECEMBER 9, 2014

RIPARIAN AND WETLAND INFORMATION AND SECTION

**E-6**