MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

FORM W - CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) OPERATING PERMIT APPLICATION

FOR OFFICE USE ONLY	
CHECK NUMBER: 1461	
DATE RECEIVED 10-25-16	FEE SUBMITTED $100.00 SB

Complete all applicable sections for type of permit being applied for. Instructions for completing the form are located at the end of the form. Sign, date and return the form and all requested documents along with a check for $150 payable to the Missouri Department of Natural Resources. Make a copy of this completed form and keep it with your Nutrient Management Plan.

PART 1 – PERMIT OWNERSHIP/CONTACT INFORMATION

1.1 OPERATION NAME Z2 Sow Farm / Dev-1 Farm	CURRENT PERMIT NUMBER ~~MO-G010664~~ SB	COUNTY Saline
PHYSICAL ADDRESS 26467 Afton Avenue		TELEPHONE NUMBER WITH AREA CODE (660)886-9681
CITY Waverly	STATE MO	ZIP CODE 64096
1.2 OWNER (PROVIDE LEGAL NAME) United Hog Systems, LLC	E-MAIL ADDRESS robertzeysing@rzeysing.com	
MAILING ADDRESS P.O. Box 158		TELEPHONE NUMBER WITH AREA CODE (660)886-9681
CITY Marshall	STATE MO	ZIP CODE 65340
1.3 CONTINUING AUTHORITY (IF DIFFERENT THAN THE OWNER) Same		
MAILING ADDRESS		TELEPHONE NUMBER WITH AREA CODE
CITY	STATE	ZIP CODE

PART 2 – PERMIT TYPE, ACTION, AND NUTRIENT MANAGEMENT PLAN (NMP)

2.1 PERMIT TYPE

☐ NPDES Permit
NMP is required to be submitted with application.
(Must also complete Land Application Information page)

X State No-Discharge Permit
NMP is not required to be submitted.
The date soil tests were taken that was used in development of the NMP. (Month/Year)

2.2 Permit Action

☐ New Permit ☐ Renewal

X Modification (including Ownership Transfer)

Previous Owner _____
Name
_____
Address
_____
City, State, Zip Code
_____
Previous Owner's Signature Date

PART 3 – DESIGN CAPACITY FOR MANURE STORAGE AND ANIMALS OF EACH CAFO FEATURE (All information to complete this section is in your current operating or construction permit. Attach additional sheets if necessary)

3.1 STORAGE STRUCTURE TYPES, AMOUNT OF STORAGE, AND AMOUNT OF MANURE GENERATED PER YEAR.

List All Manure Storage Structures at each CAFO Feature		Dry Manure Handling System		Wet Manure Handling System			
CAFO Feature	Storage Structure Type(s)	Design Dry Process Waste (tons/yr.)	Days of Storage	Total Storage Capacity (gal)	Design Wastewater per Year (gal./yr.)	Days of Storage	Design Flow MGD
001	E			6,923,144	5,268,823	480	.014
002	E			2,905,599	858,544	1235	.0024
003	G	59	>365				
004							
005							

3.2 LIST EACH TYPE OF ANIMAL IN CONFINEMENT AND THE NUMBER OF EACH ANIMAL TYPE.

CAFO Feature	Animal Category #1	Animal Numbers	Animal Category #2	Animal Numbers	Animal Category #3	Animal Numbers
001	5	3406	4	300		
002	5	3200				
003						
004						
005						

PART 4 – OPERATIONAL INFORMATION

4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS)
SIC Code(s) 213 CAFO Class Size IC

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4.2 Is this an "Export Only" operation? ☐ Yes X No

4.3 Are spreading agreements current? ☐ Yes ☐ No X Not Applicable

ALLIED ENGINEERING SERVICES, LLC

Engineering—Surveying—Construction

October 20, 2016

Greg Caldwell
Water Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176

Dear Greg,

Enclosed please find the general operating permit application for United Hog Systems Z2 Sow Farm Expansion. in saline County. I have enclosed a cd with a copy of the cnmp and public notice letters.

If you have any questions or need any additional information, please feel free to contact me.

Sincerely,

Jeff E. Browning, P.E.

Enclosures

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UNITED HOG SYSTEMS, LLC
Z2 SOW FARM

MISSOURI CAFO OPERATING PERMIT APPLICATION
FOR
Z2 SOW FARM
P.O. BOX 158
MARSHALL, MO 65340
(660)886-9681

Prepared By:
ALLIED ENGINEERING SERVICES, LLC
P.O. Box 29
Bowling Green, Missouri 63334
PHONE: 573-324-6860
FAX: 573-324-6818

October 2016

THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH CURRENT REGULATIONS

STATE OF MISSOURI
JEFF ERIC BROWNING
NUMBER E-28664
REGISTERED PROFESSIONAL ENGINEER

10-19-16

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PARTS 5 through 11 meet the NMP requirements for an export only operation.

PART 5– MANURE STORAGE

State regulations require CAFOs ensure adequate storage of manure, litter, or process waste water, including the proper operation and maintenance of each storage facility.

5.1 Does each storage structure have adequate storage, and being properly operated and maintained so as not to discharge? X Yes ☐ No

PART 6 – ANIMAL MORTALITY

State regulations require proper management of animal mortalities be in place at all CAFOs. There should be no discharge from dead animal collection, holding, or disposal areas at the CAFO's production area(s). In addition, the Missouri Department of Agriculture requires the collection or disposal of dead animals in accordance with the Dead Animal Disposal Law under Chapter 269 RSMo.

6.1 PERMANENT METHOD OF ANIMAL MORTALITY HANDLING OR DISPOSAL; CHOOSE APPLICABLE METHOD(S)

X Composting ☐ Rendering ☐ Send to a Landfill ☐ Incineration ☐ Other (Describe)

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (e.g., MORTALITIES ARE COMPOSTED WITHIN 24 HOURS OF DEATH AND FINISHED COMPOST PRODUCT IS STORED UNDER ROOF UNTIL LAND APPLIED). ALSO DESCRIBE THE TYPE OF COMPOST STRUCTURE USED, IF APPLICABLE.

Mortalities will be removed regularly to a BioVator or static pile compost facility to be constructed on-site and composted within 24 hours of death. Finished compost is stored under roof until land applied.

PART 7 – DIVERSION OF CLEAN WATER

State regulations require CAFOs to divert clean storm water, as appropriate, around the production area.

7.1 Is clean storm water diverted from the production area? X Yes ☐ No

7.2 If yes, describe controls and measures used to divert storm water.

Buildings prevent stormwater from entering animal production area. Site is graded to divert storm water away from buildings.

7.3 IF NO, INCLUDE DESIGN CALCULATIONS (IF NOT INCLUDED IN THE ORIGINAL DESIGN) FOR DETERMINING THE TOTAL STORAGE CAPACITY NEEDED TO CONTAIN ALL CLEAN STORM WATER RUNOFF THAT HAS NOT BEEN DIVERTED FROM THE PRODUCTION AREA. NOTE: THE DEPARTMENT HIGHLY DISCOURAGES THIS PRACTICE.

PART 8 – PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

State regulations require that CAFOs prevent the direct contact of confined animals with waters of the state.

8.1 Do the animals have access to waters of the state within the production area? ☐ Yes X No

8.2 LIST MEASURES USED TO PREVENT ANIMALS FROM HAVING DIRECT CONTACT WITH WATERS OF THE STATE WITHIN THE PRODUCTION AREA.

Animals are confined in buildings.

PART 9 – CHEMICAL HANDLING

State regulations require chemicals and other contaminants handled on-site not be disposed of in any manure, litter, process wastewater, storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants

9.1 CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE MEASURES TAKEN TO PREVENT CHEMICALS (INCLUDING PESTICIDES, COMMERCIAL FERTILIZERS, HAZARDOUS AND TOXIC CHEMICALS AND PETROLEUM BY-PRODUCTS) FROM CONTAMINATING MANURE STORAGE STRUCTURES, PROCESS WASTEWATER OR STORM WATER STORAGE AND TREATMENT SYSTEMS:

☐ Chemicals are stored in proper containers. (Describe)

☐ Chemicals that are no longer used or expired are properly disposed of. (Describe)

☐ Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas. (Describe)

☐ Emergency procedures and equipment are in place to contain and clean up chemical spills. (Describe)

☐ Equipment wash areas are designed and constructed to prevent contamination of surface waters and wastewater and storm water storage and treatment systems. (Describe)

☐ Chemicals are handled and used according to the label. (Describe)

X No chemicals are stored or handled in the production area.

PART 10 – MANURE ANALYSIS TESTING

10.1 LIST EACH TYPE OF MANURE SOURCE. (i. e. MANURE, LITTER, COMPOST, WASTE WATER.)

Lagoon wastewater and mortality compost.

10.2 DESCRIBE THE PROCEDURES TO ENSURE EACH UNIQUE SOURCE IS TESTED ANNUALLY.

Manure/compost is collected in bottles from several locations at each storage location. The samples are then combined into a bulk sample and tested at a laboratory.

PART 11 – RECORD KEEPING

State regulations require specific records to be maintained and kept for five (5) years.

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? X Yes ☐ No

PART 12 – SIGNATURE

NAME	TITLE
Robert H. Zeysing	Owner
SIGNATURE Robert H. Zeysing	DATE 10-18-16

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MO 780-2112 (01-13)

Z-DEV-1 FARM
Z-2 SOW FARM

NARRATIVE SUMMARY OF DESIGN

The Z-2 Sow Farm is located in the NW ¼ and NW ¼, of Section 30, the Z-Dev-1 Farm is located in the N ¼ , S ½, SE ¼ , and the S ¼, N ½, SE ¼ of Section 30. Total animal units for both operations will be 2,672.4. This will be a class IC concentrated animal feeding operation.

The Z-2 Sow Farm currently houses 432 sows & litters (average weight =450 lbs) and 2,002 gestating sows & boars (average weight = 375 lbs). There are three buildings and one existing lagoon on this site. Proposed changes will add a new 73'6" X 177'5" Gilt Development (GDU) barn with 300 (20 lb) nursery pigs, 300 (65 lb) grower pigs, 450 (200 lb) gilts and 222 (375 lb) gestation sows.

All Z-2 buildings are pull-plug style barns which are recharged via recycle water from the existing lagoon. The plugs will be pulled approximately once per week. The building pits will be recharged via a recycle pump from the lagoon.

The Z-Dev-1 Farm houses 3,200 Gilts (average weight = 290 lbs.). There are six existing buildings on the site. No changes are proposed at this farm.

Maximum annual pumpdown at the Z2 farm is estimated to be 5,268,823 gallons per year based on adding an additional 268,823 gallons for the GDU barn to the on average 5,000,000 gallons per year pumped. Surface water is diverted away from the lagoon.

The land application system will employ two 4,800 gallon balzer tankwagons and a farmstar 7 shank dragline injector. The operation has (2) 640 dragline hoses, (4) 640' feeder hoses and several thousand feet of aluminum irrigation pipe. The system will apply waste to approximately 364.3 acres of row crop area, the spreading area is as noted on the included maps. Year-to year actual manure test data will be used to adjust if necessary the exact amount of acreage required for land application. The cropland will be maintained in corn and soybeans.

Dead animals will be disposed of in accordance with the Missouri Department of Agriculture regulations. Dead animals from this site will be incinerated or composted.

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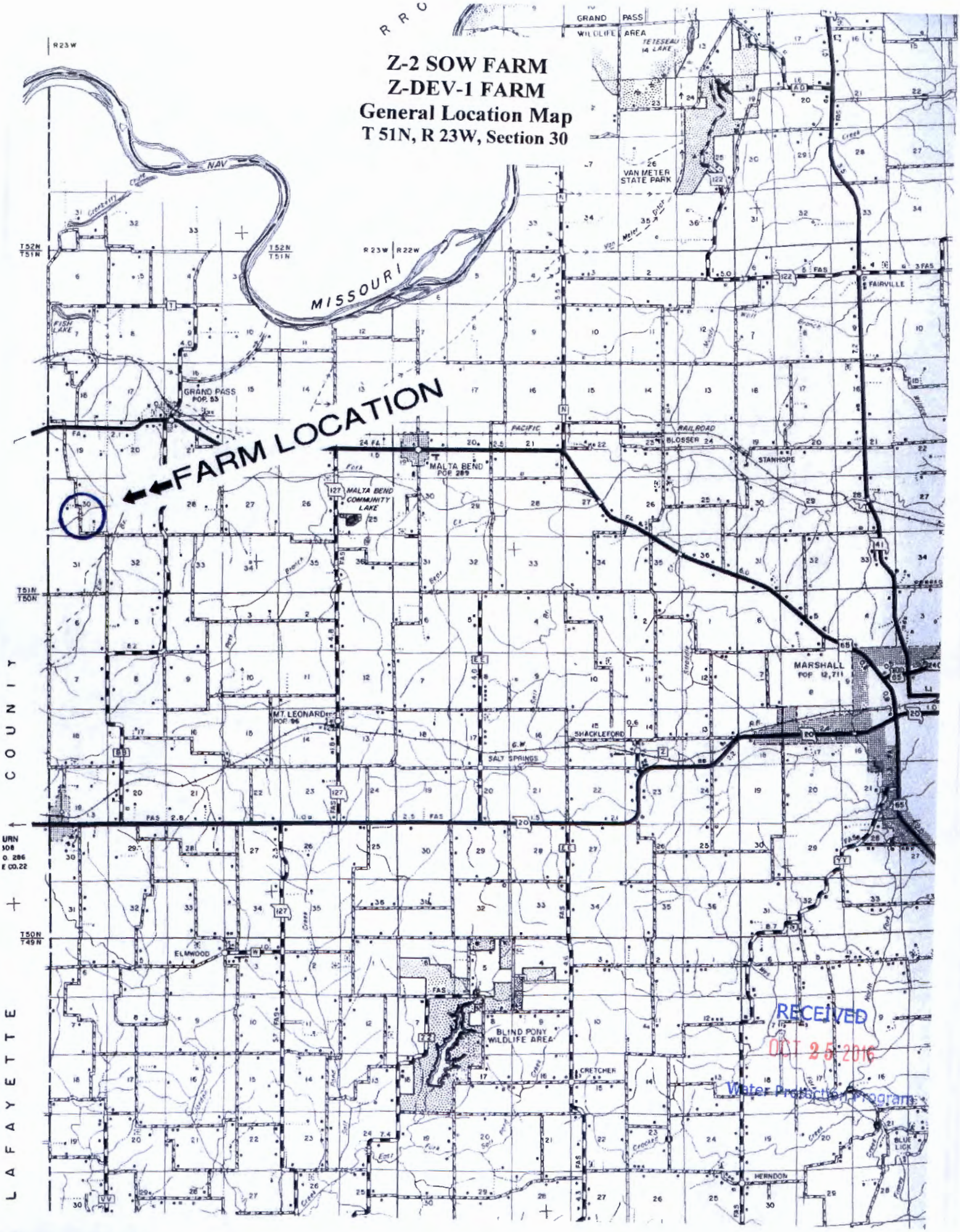
Z-2 SOW FARM
Z-DEV-1 FARM
General Location Map
T 51N, R 23W, Section 30



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1. Article Addressed to:

Saline Co. Commission
Saline Co. Courthouse
101 Arrow Street
Marshall, Mo 65340

9590 9402 1860 6104 5318 83

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9880

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A. Signature

X Monte Fenner

☐ Agent
☐ Addressee

B. Received by (Printed Name) MONTE FENNER

C. Date of Delivery 9-29-16

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

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1. Article Addressed to:

Greg Caldwell
DNR - WPCP
P.O. Box 176
Jefferson City, Mo 65102-0176

9590 9402 1860 6104 5318 14

2. Article Number (Transfer from service label)

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Mary Ann Borns

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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JEFFERSON CITY, MO
SEP 29 2016
USPS - 65101

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1. Article Addressed to:

Roehrs Farms, LLC
1855 Hedgeapple Dr.
Sedalia, MO 65301

9590 9402 1860 6104 5319 20

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9927

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Elaine Roehrs

☐ Agent
☐ Addressee

B. Received by (Printed Name)

ELAINE ROEHRS

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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1. Article Addressed to:

DRF Farms
P.O. Box 967
Houston, TX 77001

9590 9402 1860 6104 5319 37

2. Article Nu

7015

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A. Signature

X

☐ Agent
☐ Addressee

B. Received by (Printed Name)

JAMES FELDER

C. Date of Delivery

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D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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1. Article Addressed to:

Lesley + Connie Dierking
26570 Bobcat Ave.
Malta Bend, MO 65339

9590 9402 1860 6104 5319 13

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9910

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A. Signature
X Connie S. Dierking
☐ Agent
☑ Addressee

B. Received by (Printed Name) Connie Dierking
C. Date of Delivery 9-29-16

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

3. Service Type
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1. Article Addressed to:

Betty Perry Revocable Trust
2112 W. Bonanza Lane
Phoenix, AZ 85085

9590 9402 1860 6104 5319 51

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7015 0640 0006 7274 9958

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A. Signature
X [signature]
☐ Agent
☐ Addressee

B. Received by (Printed Name) Rebecca Haverkamp
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

[redacted]

OCT 03 2016

PHOENIX AZ 85087

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1. Article Addressed to:

C/o Rebekah Haverkamp
2112 W. Bonanza Lane
Phoenix, AZ 85085

9590 9402 1860 6104 5319 68

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9965

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A. Signature

X Rebekah Haverkamp

☐ Agent
☐ Addressee

B. Received by (Printed Name) Rebekah Haverkamp

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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PHOENIX AZ 850

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1. Article Addressed to:

Susan Thiel
P.O. Box 542016
Omaha, NE 68154

9590 9402 1860 6104 5318 90

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9897

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A. Signature
X John A. Baquette ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

OMAHA NE BOYSTOWN STATION SEP 29 2016

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1. Article Addressed to:

David Werdmeyer
11634N. Salem Hwy 65
Grand Pass, MO 65339

9590 9402 1860 6104 5319 44

2. Article Number (Transfer from service label)

7015 0640 0006 7274 9941

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A. Signature
X ☐ Agent ☒ Addressee

B. Received by (Printed Name) C. Date of Delivery
Loran Werdmeyer 10-7-16

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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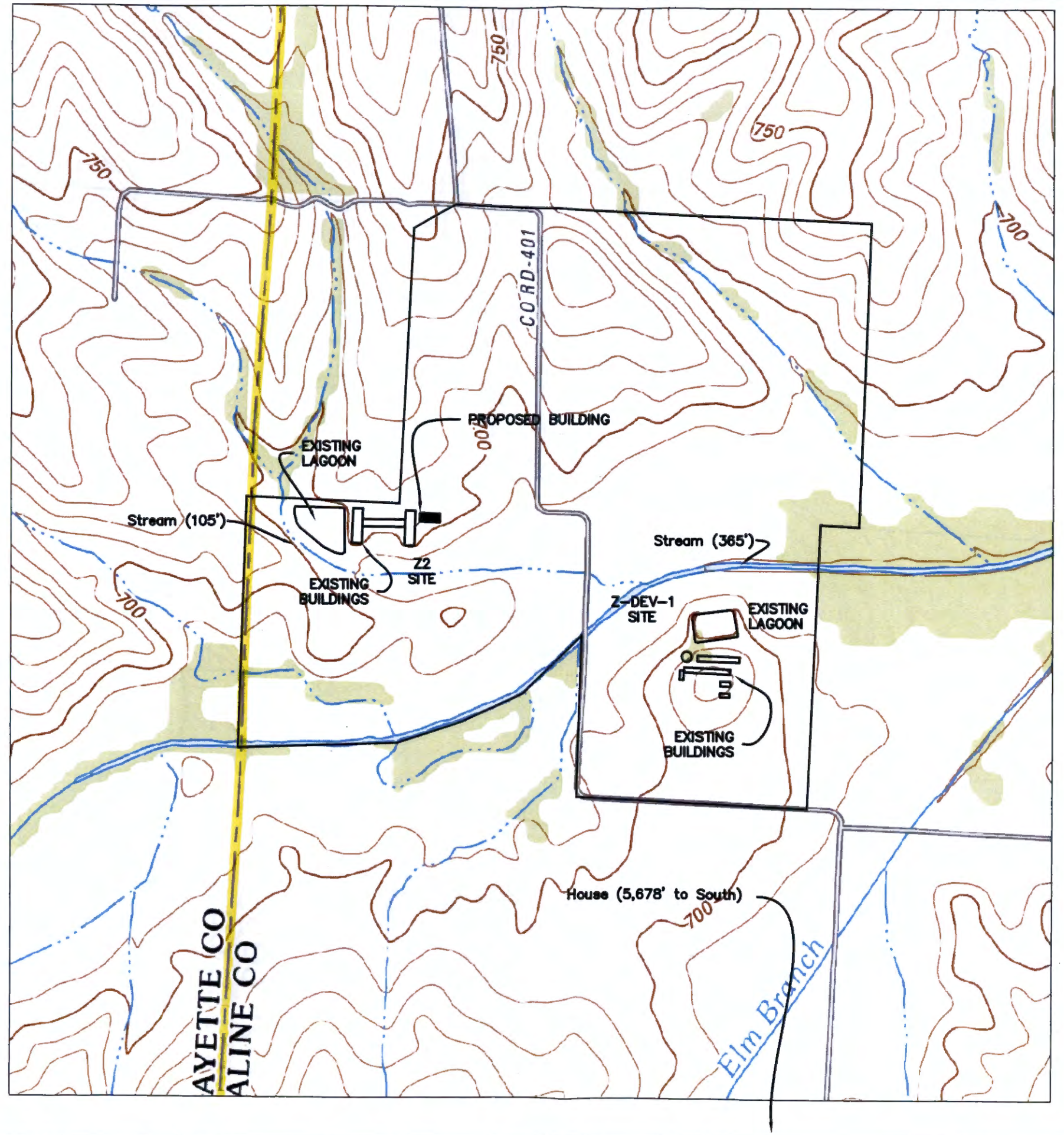

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SCALE: 1" = 1000'

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ALLIED ENGINEERING SERVICES, LLC

Engineering-Surveying-Construction

224 WEST MAIN, P.O. BOX 29
BOWLING GREEN, MO 63334
PHONE: (573) 324-6860

UNITED HOG SYSTEMS
Z-2 GDU ADDITION

SHEET TITLE:
TOPO MAP

FILE NAME	16-3421
DRAWN BY	TRD
CHECKED BY	JEB
PROJECT ENGINEER	JEB
CONTACT OFFICE	BOWLING GREEN
DATE	9-26-16
JOB NUMBER	16-3421
SHEET NUMBER	1 of 1

SCALE: 1" = 1000'

1000' 0 1000'

ALLIED ENGINEERING SERVICES, LLC

Engineering-Surveying-Construction

224 WEST MAIN, P.O. BOX 29
BOWLING GREEN, MO 63334
PHONE: (573) 324-6860

REVISED

SHEET TITLE:
SETBACK MAP

UNITED HOG SYSTEMS
Z-2 GDU ADDITION

FILE NAME	16-3421
DRAWN BY	TRD
CHECKED BY	JEB
PROJECT ENGINEER	JEB
CONTACT OFFICE	BOWLING GREEN
DATE	9-26-16
JOB NUMBER	16-3421
SHEET NUMBER	1 of 2