WISCONSIN STANDARD DRAWING NO. WI-001C

03/16

CONSTRUCTION PLAN

PRACTICE(S)	412-GRASSED	WATERWAY(CLASS II	D.A.) 608	8-SUB	SURFACE	DRAIN(CLASS I	D.D
	500-OBSTRUC	TION REMOV	AL 342-	CRITICAL	AREA	PLANTING	484-	MULCHIN	1G

LANDOWNER <u>Edward J & Kathy I Ho</u> u	usey Trust
ADDRESS <u>N78W14983 Pueblo St. N</u>	Menomonee Falls, WI 53051
CONTACT PHONE NO. 262-255-6195	
· · · · · · · · · · · · · · · · · · ·	T <u>17</u> N, R <u>13</u> E, Sec. <u>35</u>
FIFLD OFFICE GREEN LAKE	TELEPHONE NO 920-294-4051

DIGGERS HOTLINE

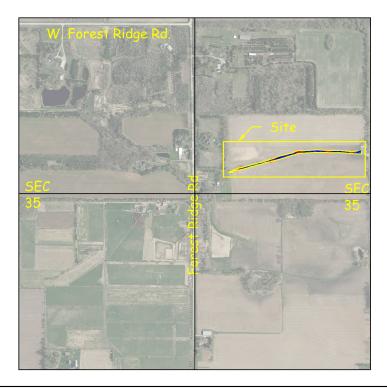
Call 3 Work Days Before You Dig!

> Nationwide 811

Toll Free 1-800-242-8511

TDD 1-800-542-2289

Website www.diggershotline.com





Not to

LOCATION MAP

NOTICE TO LANDOWNERS AND EXCAVATORS

Any representation made by the USDA, Natural Resources Conservation Service, or the <u>GREEN LAKE</u> County LCD, as to the approximate location or nonexistence of above or under ground hazards does not relieve the owner of the property or the excavator that is hired to complete construction, from notifying Diggers Hotline of the pending construction. You will be liable for damages resulting from construction activities. Call Diagers Hotline! Ticket Number _

CONSTRUCTION DRAWINGS AND SPECIFICATIONS ACCEPTANCE

I have reviewed and understand the construction plans and specifications and agree to complete the work accordingly. Failure to meet these plans and specifications may jeopardize any continued NRCS technical assistance or program cost sharing applied for. I understand that it is my responsibility to secure all necessary permits and licenses, and to complete the work in accordance with all local, state, and federal laws. Modification of these construction plans or specifications must be approved by the NRCS before installation. I assume all responsibility for negotiations and contract agreements with the construction contractors.

Landowner Signature:	Date:
Designed by:	Date:
Checked by:	Date:
Approved by:	Date:
The installed practices comply with applicable NRCS technical standards construction plans (as—built drawings) reflect changes made during con-	
Construction Approved by:	Date:
Job Approval Class <u>II, l</u>	

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY	SHEET NUMBER	WI. CONSTRUCTION SPEC. OR JOB SHEET NUMBER
GRASSED WATERWAY	LIN. FT.	2042	2,3,4	WI CONSTRUCTION SPEC. 2
WATERWAY ESTIMATED EXCAVATION	CU. YDS.	1399	2,3,4	WI CONSTRUCTION SPEC. 2
OBSTRUCTION REMOVAL	AC.	1.0	2	WI CONSTRUCTION SPEC. 1
4"POLYETHYLENE PERFORATED PIPE	LIN. FT.	1892	2,3,4,7	WI CONSTRUCTION SPEC. 44
4" SCH 40 PVC (1-10' PIECE)	LIN. FT.	10	2,3,4,7	WI CONSTRUCTION SPEC. 15
ANIMAL GUARD FOR 4" PVC OUTLET	NO.	1	7	WI CONSTRUCTION SPEC. 15
SEEDING	AC.	1.4	2,5	WI CONSTRUCTION SPEC. 5
EROSION CONTROL BLANKET — 16' WIDE X 112' LONG	SQ.FT. ROLLS	32,672 19	2,6	WI CONSTRUCTION SPEC. 5
Quantities are a			<u> </u>	

Quantities are estimated to the neat lines and grades of in-place materials shown on the construction plan unless otherwise stated. Truck yardage, loose fill, shrinkage, etc., must be calculated and compensated for by the contractor preparing a bid or constructing the project.



Conservation Service

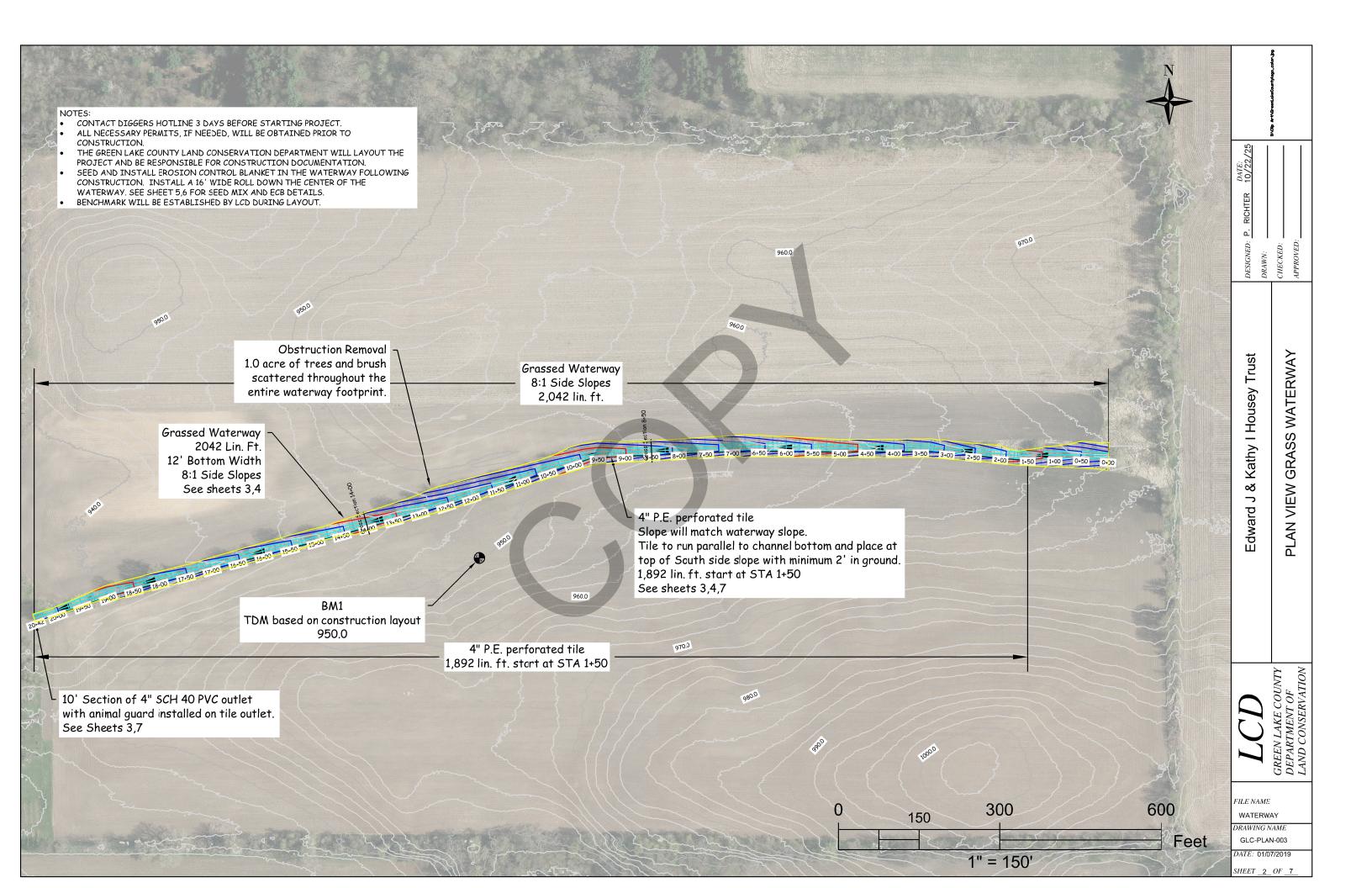
ESTIMATED QUANTITIES

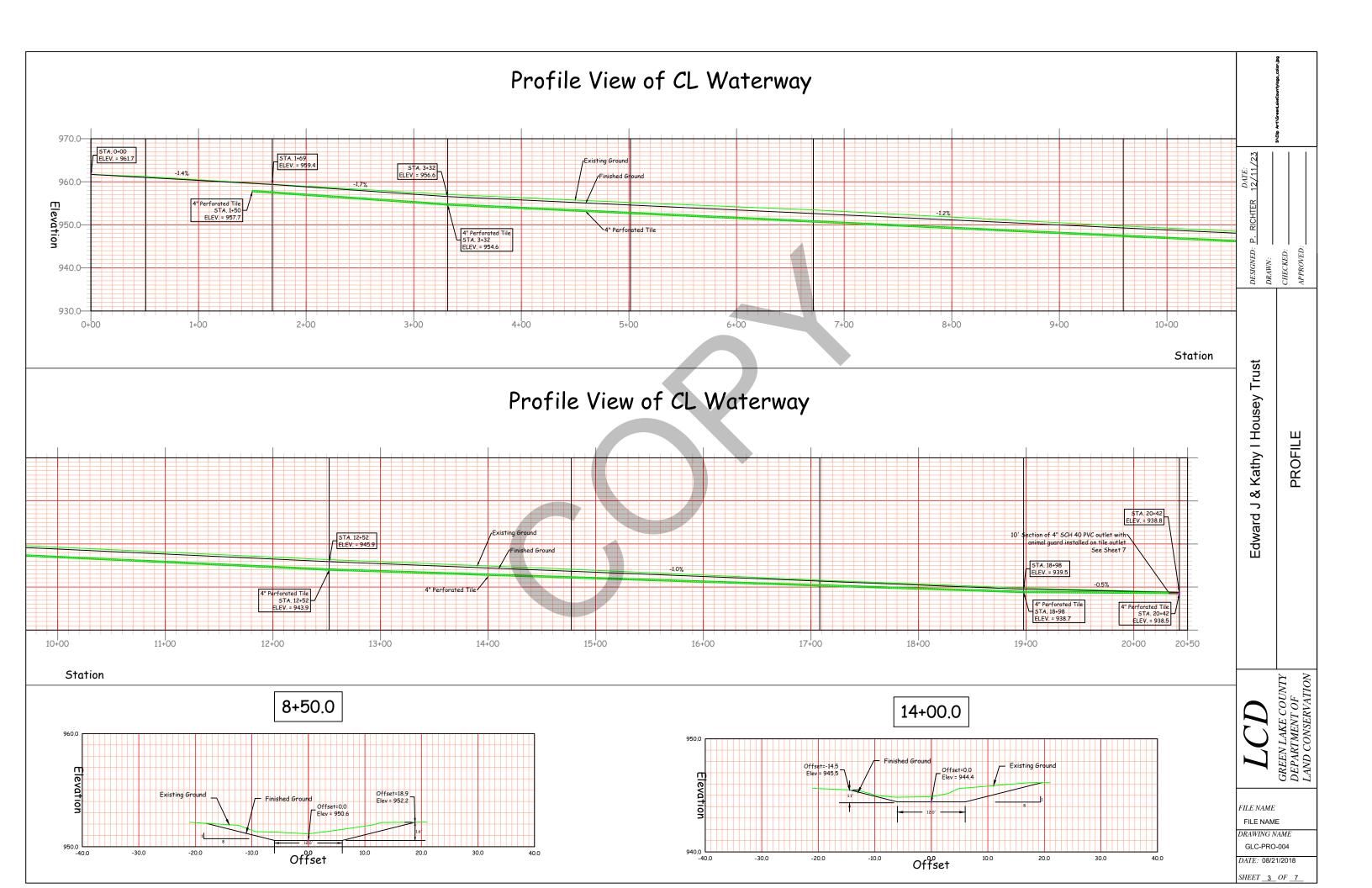
GREEN LAKE

CLIENT: Edward J & Kathy I Housey Trust

Drawing Name Designed P. Richter 10/22/25 WI-005 Date 05/15

Sheet 1 of 7





DESIGN DATA

WATERWAY SOILS SC-SM/CL-ML

MAXIMUM PERMISSIBLE VELOCITY = ____5__FPS

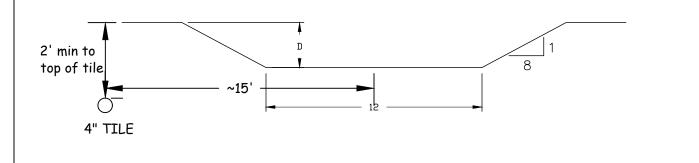
WATERWAY	RE	ACH	D.A.	DESIGN	Q	RET 2	RET 2	DESIGN	CHANNEL	ВОТТОМ	SIDE SLOPES	FLOW
NUMBER	FROM	ТО	IN (ACRES)	FREQ.	(CFS)	(VEL)	(CAP)	(FPS)	SLOPE (%)	WIDTH (B)	(Z)	DEPTH (FT.)
GWW	0+00	1+69	61.4	10 YR	50.0	D	С	2.30	1.4	12 FT.	8:1	1.1 FT
GWW	1+69	3+32	61.4	10 YR	50.0	D	С	2.50	1.7	12 FT.	8:1	1.0 FT
GWW	3+32	12+52	61.4	10 YR	50.0	D	С	2.16	1.2	12 FT.	8:1	1.1 FT
GWW	12+52	18+98	61.4	10 YR	50.0	D	С	2.00	1.0	12 FT.	8:1	1.2 FT
GWW	18+98	20+42	61.4	10 YR	50.0	D	С	1.49	0.5	12 FT.	8:1	1.4 FT

- 1. UNIFIED SOIL CLASSIFICATION SYSTEM
- 2. RET (VEL) IS THE RETARDANCE FOR DETERMINING DESIGN VELOCITY (NORMALLY "D").
 RET (CAP) IS THE RETARDANCE FOR DETERMINING THE FLOW DEPTH FOR CAPACITY (NORMALLY "B" OR "C").

	SEEDING AND CONSTRUCTION CHECK										
DESIGN DATA						AS-BUILT DATA					
WATERWAY NUMBER	RE	ACH	WIDTH TO VEGETATE	AREA (ACRES)	SEEDING IN	SODDING	CHANNEL SLOPE	BOTTOM WIDTH	SIDE SLOPES	DEPTH (FT.)	LENGTH (FT.)
NOMBLIX	FROM	то	(FT.)	(SQ.YDS.)	(ACRES)	(SQ.YDS.)	(%)	(FT.)	(Z)	(11.)	(11.)
GWW	0+00	20+42	30 FT	1.4 AC							
		,		TOTALS						TOTAL	

THIS	PRACTICE	MEETS	NRCS	STANDA	RDS,
SPEC	IFICATIONS,	, AND	CONST	RUCTION	PLANS

SIGNATURE &	TITLE	DATE



TRAPEZOIDAL CROSS SECTION

CONSTRUCTION DETAILS

WATERWAY NUMBER	REA FROM	ACH TO	CHANNEL SLOPE(%)	BOTTOM WIDTH(B) FEET	DEPTH(D) FEET	SIDE SLOPE(Z)	LENGTH FEET
GWW	0+00	20+42	0.5-1.7	12 FT	1.0-1.4	8:1	2,042
	<u> </u>						
						_	
						_	
·							

NOTES AND SPECIFICATIONS:

- 1. TOPSOIL SHALL BE STOCKPILED AND RESPREAD ON THE WATERWAY WHEN NEEDED TO FACILITATE REVEGETATION.
- 2. PLACE SPOIL WHERE IT WILL NOT INTERFERE WITH SURFACE WATER FLOW INTO THE WATERWAY.
- 3. MAINTENANCE ITEMS REPAIR AREAS OF DAMAGED VEGETATION. DO NOT USE THE WATERWAY FOR A TRAVEL LANE. DO NOT PLOW INTO THE WATERWAY SIDES.

HOWEL DUTE.	DO NOT I LOW	IIII WALL	INWALL SIDES.

WI-402A



TRAPEZOIDAL GRASSED WATERWAY

CLIENT: Edward J & Kathy I Housey Trust GREEN LAKE COUNTY:

File Name Designed P. RICHTER 10/22/25 WI-402A Date Drawn 07/14

Approved Sheet 4 of 7

TIME PERIOD		DATES		TYPE OF SEEDING
Spring	April 15	through	June 1	Permanent
Summer	June 2	through	see WI-710ss pg 2	Temporary *
Late Summer	August 1	through	August 21	Permanent
Fall	August 22	through	see WI-710ss pg 2	Temporary *
Late Fall	November 1	through	Snow Cover	Dormant
Winter	Snow Cover	through	April 14	Not Allowed

MATERIALS

If no soil test is available, apply a minimum of 150 pounds of 20-10-10 fertilizer per acre. This is equivalent to 30 pounds nitrogen (N), 15 pounds phosphate (P205), and 15 pounds potash (K2O) per acre. Apply two tons / acre of 80-89 lime or equivalent. (See page 2 for equivalent)

* Seed a temporary cover crop of Oats at ___64 __#/ac (__2 __ bu/ac) A permanent seeding shall be completed during the next acceptable time period following a temporary seeding.

MINIMUM PURE LIVE SEED (PLS) 1 RATE PER ACRE AND TOTAL POUNDS OF SEED NEEDED

SEEDING MIX 9		LOCATION:	Dist. Area
(DESIGN)		ACRES:	1.40
SPECIES		RATE	POUNDS
Kentucky Bluegras	S	3.8	5.3
Creeping Red Fescue		5.0	7.0
Perennial Ryegrass	6	12.5	17.5
Annual Ryegrass		6.0	8.4
1DICINA -			The section of the se

SEEDING MIX	LOCATION	
(AS-BUILT)	ACRES	
SPECIES	RATE	POUNDS
PERCENT: 25	%	

(total % Germination #100 * % Purity #100) * Net Weight

ADDITIONAL SEED PERCENT: 25 9
Mulching Require No

** Companion Crop

Total % Germination may also be termed Total % Viable Seed on a tag. If a tag only shows % Germination, the user must include percentage of the seed that germinated during the lab test (% Germination) plus the percentage of hard and/or dormant seed. Hard seed and dormant seed are seeds that are still capable of germinating and producing a plant but did not germinate under the conditions of the test in the lab.

Additional native seeds may be required by permitting agencies. These addition are allowed.

Seed mixture shall meet all requirements of the WI weed laws.

Species identified as restricted or prohibited by law shall not be planted.

Certified seed shall be used, and the seeding rates will be based on pure live seed.

For dormant seedings, increase the seeds per square foot by 15%.

SEEDBED PREPARATION

Seedbed preparation shall immediately follow construction activities.

Prepare a fine, firm seedbed to a minimum depth of three inches. A seedbed is considered firm when a footprint penetrates less than 1/4 inch deep.

SEEDING

Inoculate legumes with the specific inoculum for the species in accordance with the manufacturer's recommendations. When using a hydroseeder, five times the recommended rate of inoculant shall be added to the hydroseeder. Inoculant shall not be mixed with liquid fertilizer.

Seed may be broadcast or drilled as appropriate to the site.

Seed, fertilize, and lime as soon as possible after construction.

Seeding perpendicular to direction of flow is required to limit erosion.

Seed grasses and legumes no more than 1/4 inch deep.

Consider seeding at a lower rate and making 2 passes to ensure more uniform distribution.

TEMPORARY SEEDING OPTIONS

Select one of the following species for temporary cover if:

1) The required seeds or plant stock are not available or

the normal permanent seeding period for the species has passed

Forage Sorghum - 1/2 bushel per acre (May 15-July 15)

Sorghum - Sudangrass Hybrid - 1 bushel per acre (May 15-July 15)

Sudangrass - 1 bushel per acre (May 15-July 15)

Winter Wheat - 2 bushels per acre (Aug 1-Oct 1)

Winter Cereal Rye - 2 bushels per acre (Aug 1-Oct 15)

Oats - 2 bushels per acre (Apr 1-Sept 1)

Annual Ryegrass - 20 Pounds per acre (Apr 1-Sept 1)

2) Triazine herbicide carryover will not allow establishment of permanent cover immediately.

Forage Sorghum - 1/2 Bushel per acre (May 15-July 15)

Sorghum - Sudangrass Hybrid - 1 Bushel per acre (May 15-July 15)

Sudangrass - 1 Bushel per acre (May 15-July 15)

Mulching not required

DORMANT SEEDING

Seed is broadcast and incorporated, no-tilled, or drilled into the seedbed. Seedbed preparations and conditions are similar to conventional seeding.

MULCHING

Mulching not required

Designed P. RICHTER 10/22/25

Drawn Checked Ch

NTRODUCED SPECIES SEEDING ESTABLISHMENT
OWNER: Edward J & Kathy I Housey Trust

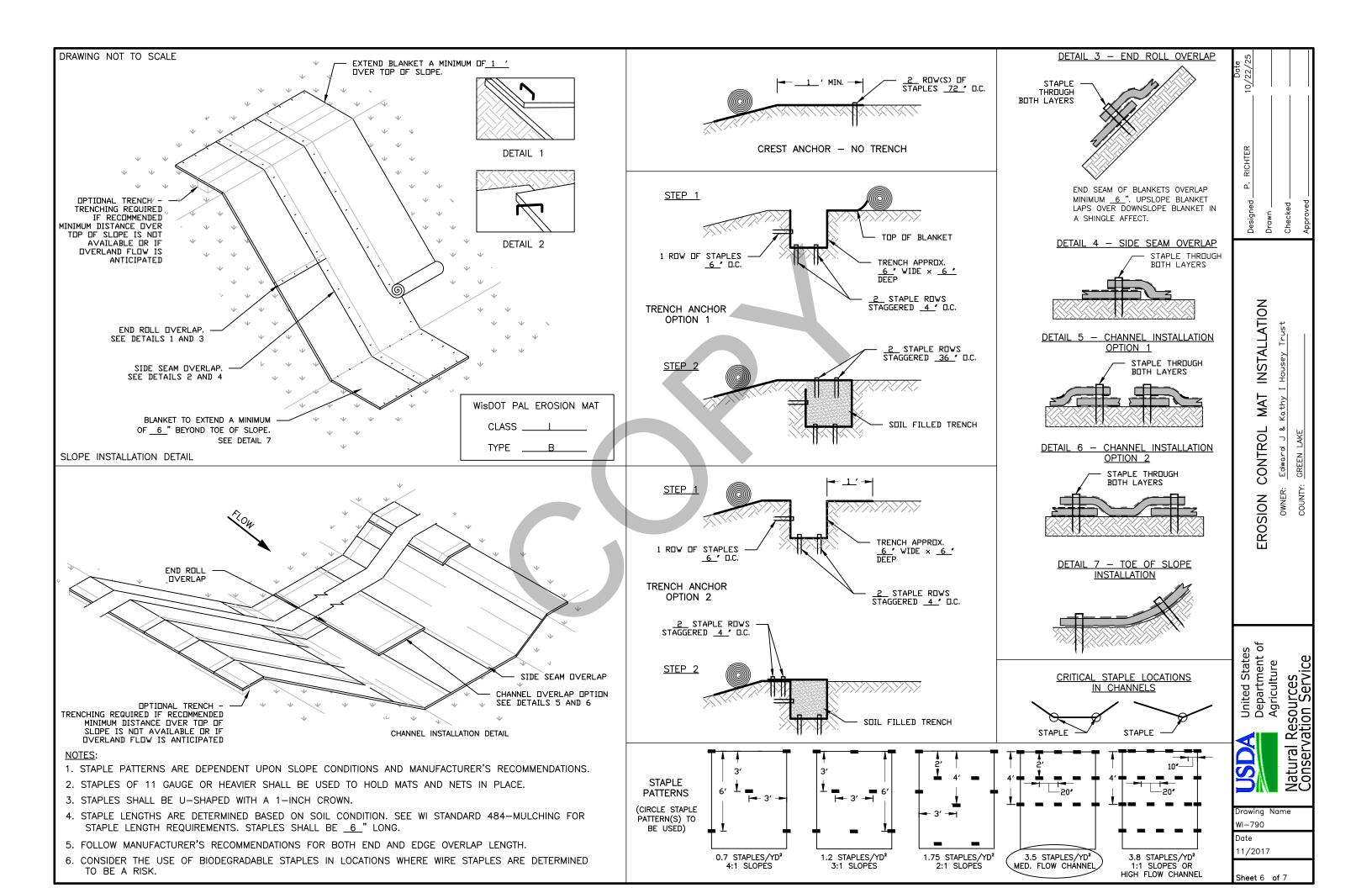
United States Department of Agriculture

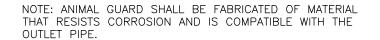
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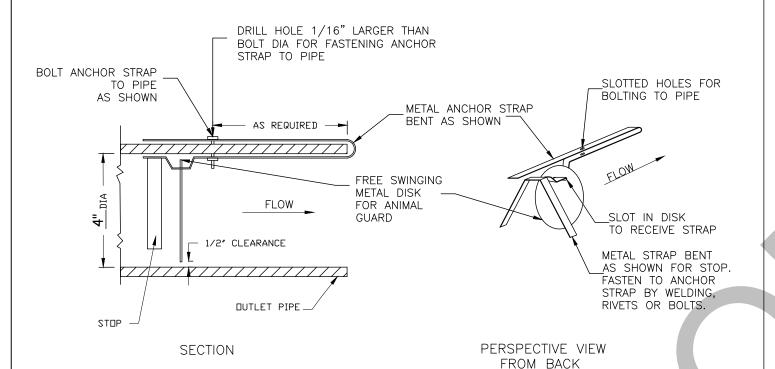
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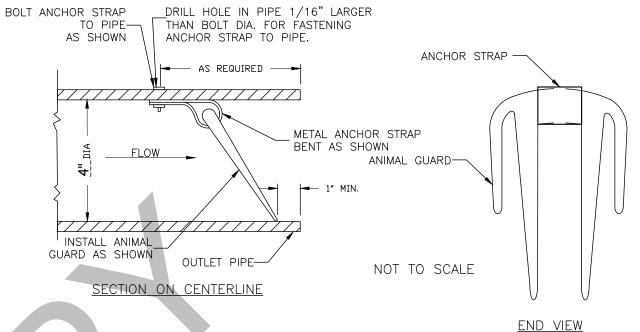
Date 12/2016

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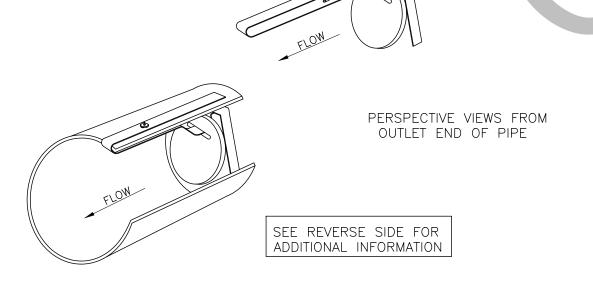


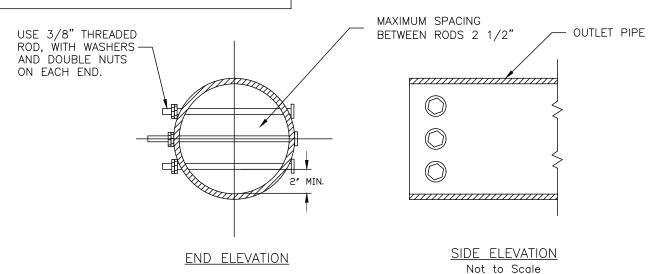




NOTE: ANIMAL GUARD SHALL BE FABRICATED OF MATERIAL THAT RESISTS CORROSION AND IS COMPATIBLE WITH THE OUTLET PIPE.

CHOOSE ONE STYLE





NOTE: OTHER OPTIONS FOR SECURING THE RODS IN PLACE INCLUDE COTTER PINS, OR SIMPLY BENDING THE RODS AT RIGHT ANGLE TO THE PIPE. SMOOTH ROD WOULD BE ACCEPTABLE IF THESE METHODS ARE USED.

GREEN LAKE COUNTY DEPARTMENT OF LAND CONSERVATION

FILE NAME FILE NAME

DRAWING NAME WI-602

DATE: 07/2014

SHEET _ 7 OF _ 7