

# Dane County Contract Cover Sheet

Res 242

Revised 01/2022

<b>Dept./Division</b>	LWRD/Parks		
<b>Vendor Name</b>	Dane Co Chapter of Pheasants Forever	<b>MUNIS #</b>	20900
<b>Brief Contract Title/Description</b>	Donation of funds for the Walking Iron Wildlife Area wetland restoration.		
<b>Contract Term</b>	Signing to 5-1-2024		
<b>Contract Amount</b>	\$10,000		

<b>Contract #</b> Admin will assign	14892
<b>Type of Contract</b>	
<input type="checkbox"/>	Dane County Contract
<input type="checkbox"/>	Intergovernmental
<input type="checkbox"/>	County Lessee
<input type="checkbox"/>	County Lessor
<input type="checkbox"/>	Purchase of Property
<input type="checkbox"/>	Property Sale
<input type="checkbox"/>	Grant
<input checked="" type="checkbox"/>	Other

Department Contact Information		Vendor Contact Information	
<b>Name</b>	Laura Hicklin	<b>Name</b>	Wes Kieler, President
<b>Phone #</b>	608-224-3730	<b>Phone #</b>	
<b>Email</b>	hicklin.laura@countyofdane.com	<b>Email</b>	
<b>Purchasing Officer</b>	Carmen Hidalgo		

<b>Purchasing Authority</b>	<input type="checkbox"/> \$11,000 or under – Best Judgment (1 quote required)
	<input type="checkbox"/> Between \$11,000 – \$40,000 (\$0 – \$25,000 Public Works) (3 quotes required)
	<input type="checkbox"/> Over \$40,000 (\$25,000 Public Works) (Formal RFB/RFP required) <span style="float:right">RFB/RFP #</span>
	<input type="checkbox"/> Bid Waiver – \$40,000 or under (\$25,000 or under Public Works)
	<input type="checkbox"/> Bid Waiver – Over \$40,000 (N/A to Public Works)
	<input checked="" type="checkbox"/> N/A – Grants, Leases, Intergovernmental, Property Purchase/Sale, Other

<b>MUNIS Req.</b>	<b>Req #</b>	<b>Org:</b> CPLWRESC	<b>Obj:</b> 51305	<b>Proj:</b>	\$ 10,000.00
	<b>Year</b>	<b>Org:</b> LWRPKOP	<b>Obj:</b> 81566	<b>Proj:</b>	\$ 10,000.00
		<b>Org:</b>	<b>Obj:</b>	<b>Proj:</b>	

Budget Amendment	
<input type="checkbox"/>	A Budget Amendment has been requested via a Funds Transfer or Resolution. Upon addendum approval and budget amendment completion, the department shall update the requisition in MUNIS accordingly.

<b>Resolution Required if contract exceeds \$100,000 (\$40,000 PW)</b>	<input type="checkbox"/> Contract does not exceed \$100,000 (\$40,000 Public Works)	<b>Res #</b>	242
	<input type="checkbox"/> Contract exceeds \$100,000 (\$40,000 Public Works) – resolution required.		<b>Year</b>
	<input checked="" type="checkbox"/> A copy of the Resolution is attached to the contract cover sheet.		

CONTRACT MODIFICATIONS – Standard Terms and Conditions		
<input type="checkbox"/> No modifications.	<input type="checkbox"/> Modifications and reviewed by:	<input checked="" type="checkbox"/> Non-standard Contract

APPROVAL	
<b>Dept. Head / Authorized Designee</b>	
Hicklin, Laura	Digitally signed by Hicklin, Laura Date: 2022.11.11 12:14:27 -06'00'

APPROVAL – Contracts Exceeding \$100,000	
<b>Director of Administration</b>	<b>Corporation Counsel</b>

APPROVAL – Internal Contract Review – Routed Electronically – Approvals Will Be Attached			
<b>DOA:</b>	<b>Date In:</b> 11/11/22	<b>Date Out:</b> _____	<input checked="" type="checkbox"/> Controller, Purchasing, Corp Counsel, Risk Management

## Goldade, Michelle

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**From:** Goldade, Michelle  
**Sent:** Tuesday, November 15, 2022 11:37 AM  
**To:** Hicklin, Charles; Hidalgo, Carmen; Gault, David; Lowndes, Daniel  
**Cc:** Stavn, Stephanie; Oby, Joe  
**Subject:** Contract #14892  
**Attachments:** 14892.pdf

<b>Tracking:</b>	<b>Recipient</b>	<b>Read</b>	<b>Response</b>
	Hicklin, Charles	Read: 11/15/2022 1:16 PM	Approve: 11/15/2022 1:16 PM
	Hidalgo, Carmen	Read: 11/15/2022 12:01 PM	Approve: 11/15/2022 1:00 PM
	Gault, David	Read: 11/15/2022 11:56 AM	Approve: 11/15/2022 12:00 PM
	Lowndes, Daniel	Read: 11/15/2022 11:40 AM	Approve: 11/15/2022 1:05 PM
	Stavn, Stephanie		
	Oby, Joe		

Please review the contract and indicate using the vote button above if you approve or disapprove of this contract.

Contract #14892

Department: Land & Water Resources

Vendor: Pheasants Forever

Contract Description: Accept donated funds from Dane County Chapter of Pheasants Forever (Res 242)

Contract Term: signing to 5/1/24

Contract Amount: \$10,000.00

*Michelle Goldade*

Administrative Manager

Dane County Department of Administration

Room 425, City-County Building

210 Martin Luther King, Jr. Boulevard

Madison, WI 53703

PH: 608/266-4941

Fax: 608/266-4425

TDD: Call WI Relay 711

Please Note: I currently have a modified work schedule...I am in the office Mondays and Wednesdays and working remotely Tuesdays, Thursdays and Fridays in accordance with COVID 19 response guidelines.

ACCEPTANCE OF DONATED FUNDS FROM THE DANE COUNTY CHAPTER OF  
PHEASANTS FOREVER

The Land & Water Resources Department has secured a \$10,000 donation from the Dane County Chapter of Pheasants Forever in support of the Walking Iron Wildlife Area.

The restoration funds will be used for a large wetland and prairie restoration project in the Walking Iron Wildlife Area in the Town of Mazomanie. The project includes creating waterfowl scrapes, filling ditches and seeding the project area with native prairie and wetland.

The project has many water quality benefits, including allowing the water to filter through the wetland before it eventually enters the Wisconsin River, increasing groundwater recharge and providing excellent waterfowl and pheasant hunting habitat.

THEREFORE, BE IT RESOLVED, that the County Board of Supervisors and the Dane County Executive hereby accept the \$10,000 in donated funds from the Dane County Chapter of Pheasants Forever.

BE IT FURTHER RESOLVED, that the Parks Director and the Parks Botanist/Naturalist are authorized to submit project reports along with necessary supporting documentation within six months of project completion, and take necessary action to undertake, direct, and complete approved projects.

BE IT FURTHER RESOLVED, that the County Board of Supervisors and County Executive give thanks to the Dane County Chapter of Pheasants Forever for supporting the project and for their financial contributions.

BE IT FINALLY RESOLVED, that revenue account LWRPKOP 81566 Donations be increased \$10,000 and CPLWRESC 51305 Walking Iron WLA Restoration Expense be increased \$10,000. All Funds shall be carried forward until realized and expended.



November 10, 2022

Ms. Joleen Stinson  
Director, Dane County Parks  
4318 Robertson Rd  
Madison, WI 53718

RE: Dane County Pheasants Forever – Contribution to Walking Iron Wildlife Area wetland restoration project north of Amenda Rd

Dear Ms. Stinson,

This letter acknowledges the commitment of ten thousand dollars (\$10,000.00) cash by Dane County Pheasants Forever to Dane County Parks in support of Walking Iron Wildlife Area wetland restoration north of Amenda Rd.

The first \$5,000 payment will be made upon acceptance of this letter agreement. The final \$5,000 payment will be made in March 2023.

The donation requires the fulfillment of the following terms:

- All work must be performed in accordance with the relevant standards set forth in plan set included here.
- It is intended that all work, including wetland construction and native seeding, must be completed no later than May 1, 2024.
- Quarterly progress reports shall be submitted by email to Dane County Pheasants Forever President on January 1, March 1, June 1, and September 1, until project completion.
- Dane County Parks staff member(s) to attend the annual Dane County Pheasants Forever annual banquet on February 4, 2023 to present info on the project.
- Post “Pheasants Forever Habitat Cooperator” signs at each of the two (2) kiosks on the project property.

Please review the terms of the letter agreement and sign below to indicate your acceptance.

Sincerely,

Wes Kieler President – Dane County Pheasants Forever

ACCEPTED & AGREED – Dane County

\_\_\_\_\_  
Joe Parisi – Dane County Executive

\_\_\_\_\_  
Date of Signature



## ESTIMATED QUANTITIES

NOTES	SPEC. #	ITEM	UNIT	QUANTITY
11	201	MOBILIZATION	LS	1
14	202	SITE PREPARATION	LS	1
12	203	EXCAVATION	C <sup>3</sup> -P	68190
22	204	EMBANKMENT CONSTRUCTION	CY-P	50380
21	301	INLINE WCS	EACH	1
21	303	24" SCH 40 PVC PIPE	LN FT	100
23	305	RIP RAP WITH GEOTEXTILE	TN	10
13	401	STRAW WATTLES	LN FT	100
13	401	EROSION CONTROL BLANKET	SQ YD	180
13	402	SEEDING AND MULCHING	AC	11

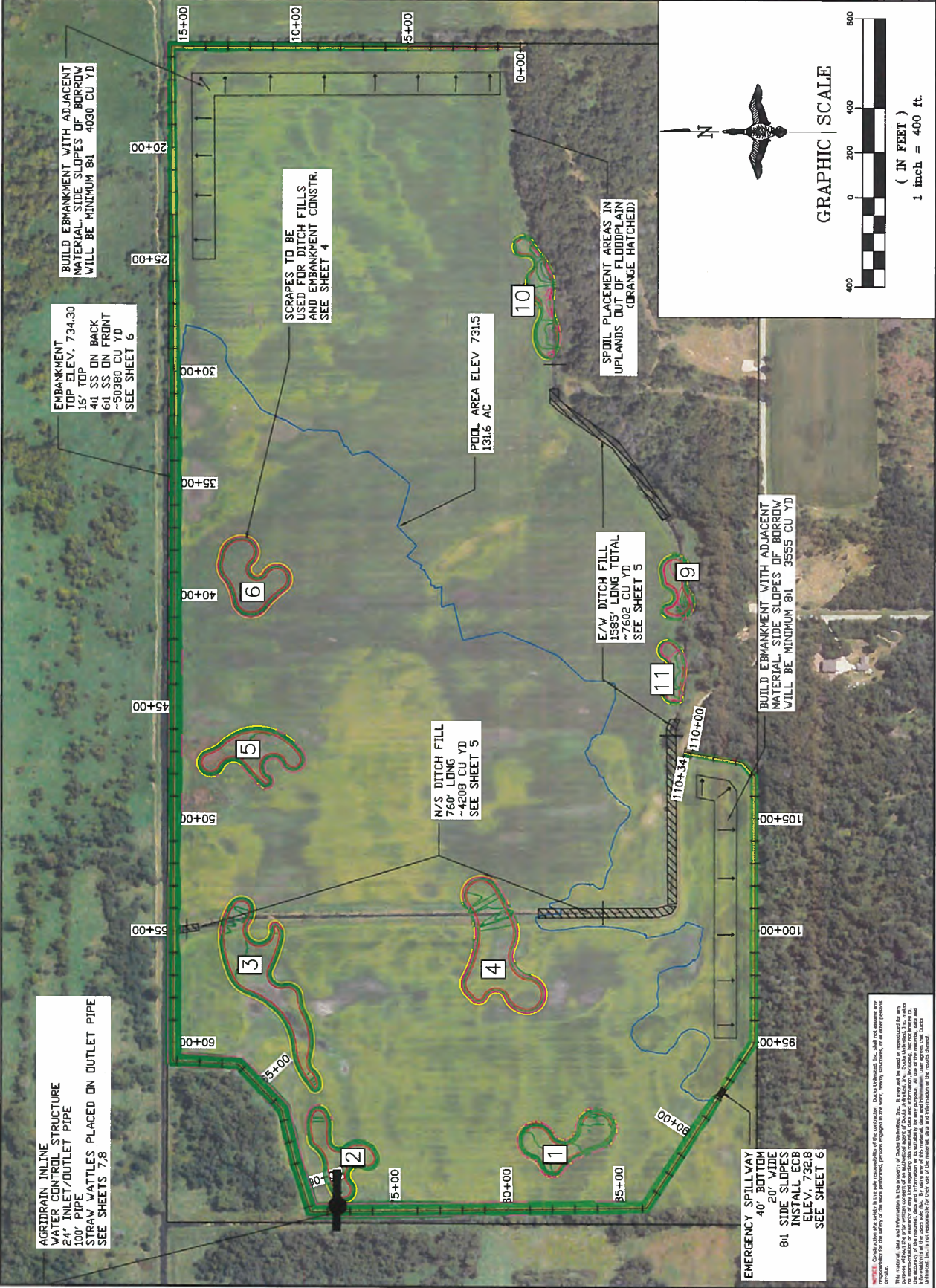
## SPECIFICATIONS

- 101 GENERAL CONDITIONS
- 102 SUPPLEMENTAL CONDITIONS
- 201 MOBILIZATION
- 202 SITE PREPARATION
- 203 EXCAVATION
- 204 EMBANKMENT CONSTRUCTION
- 301 WATER CONTROL STRUCTURES
- 303 CULVERT AND PIPE INSTALLATION
- 305 RIPRAP
- 401 SOIL EROSION AND POLLUTION CONTROL
- 402 SEEDING AND MULCHING
- 404 TRAFFIC AND MAINTENANCE CONTROL

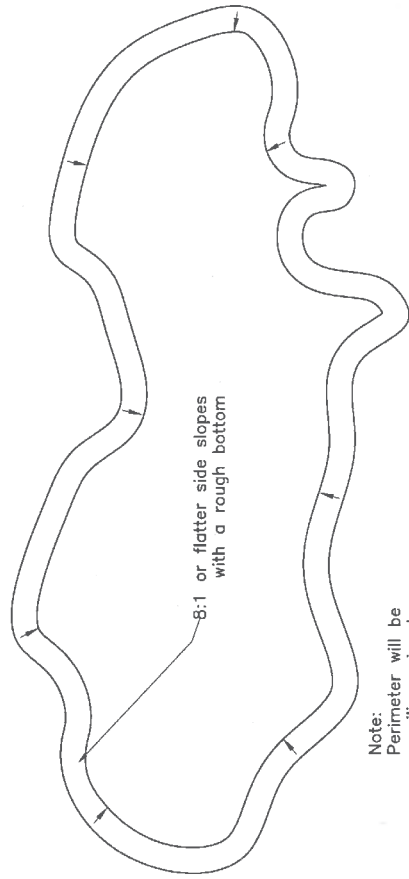
## CONSTRUCTION NOTES:

1. ALL UNDERGROUND HAZARDS AND UTILITIES MUST BE INVESTIGATED PRIOR TO CONSTRUCTION. NOTIFICATION OF EFFECTED UTILITY COMPANIES IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT DIGGERS HOTLINE AT LEAST THREE DAYS PRIOR TO START OF CONSTRUCTION.
2. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH DU PERSONNEL, THE CONTRACTOR, AND THE LANDOWNER PRIOR TO CONSTRUCTION START-UP.
3. THE CONTRACTOR AND/OR LANDOWNER SHALL NOTIFY DU AT LEAST 3 DAYS PRIOR TO START-UP OF CONSTRUCTION.
4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS.
5. ALL LOCAL STATE AND FEDERAL PERMITS WILL BE OBTAINED PRIOR TO CONSTRUCTION.
6. ALL EXCAVATED FILL WILL BE USED IN CONSTRUCTION OF PLANNED DITCH FILLS AND EMBANKMENT. ANY REMAINING SPOILS CAN BE PLACED IN DESIGNATED SPOILS AREAS LISTED ON PLAN VIEW.
7. ALL DISTURBED AREAS WILL BE SEEDED UPON COMPLETION OF CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL ACCESS ROADS AND STAGING AREAS TO PRE-CONSTRUCTION CONDITIONS AFTER CONSTRUCTION IS COMPLETED.
9. DU TECHNICIAN WILL STAKE ALL CONSTRUCTION ACTIVITIES PRIOR TO CONSTRUCTION.
10. ALL TRAFFIC LEAVING THE SITE SHALL BE FREE OF ANY LOOSE MUD AND/OR DEBRIS. ANY MUD DEPOSITED ON ROAD WILL BE REMOVED AND DEPOSITED BACK ON SITE IMMEDIATELY.
11. FOR MOBILIZATION SHALL INCLUDE THE SUPPLY OF ALL LABOR, MATERIAL AND EQUIPMENT TO TRANSPORT ALL NEEDED LABOR, MATERIAL AND EQUIPMENT, TO AND FROM A PROJECT SITE, TO SUCCESSFULLY COMPLETE THAT PROJECT AS SHOWN ON THE PLANS.
12. EXCAVATION IS FOR CUTTING OUT OR EXCAVATING ALL SCRAPE PONDS, DITCH PLUGS. SITE PREPARATION FOR PONDS IS INCIDENTAL. ALL EXCAVATION MATERIAL IS FOR EMBANKMENT AND DITCH FILLS.
13. SOIL EROSION AND POLLUTION CONTROL SHALL INCLUDE THE SUPPLY, INSTALLATION, AND MAINTENANCE OF ALL MATERIALS. IN COMPLIANCE WITH WISCONSIN REGULATIONS. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF WORK AND WILL BE MAINTAINED UNTIL FINAL STABILIZATION OF THE SITE. CONTRACTOR SHALL MAINTAIN, INSPECT, AND PROVIDE ALL PROPER RECORDING AND REPORTING ACCORDING TO THE PERMIT REGULATIONS. INCLUDES SEEDING, STRAW WATTLES, EROSION CONTROL BLANKET AND MULCHING.
14. SITE PREPARATION SHALL INCLUDE STRIPPING FOR DITCH PLUGS, EMBANKMENT AND SPILLWAY STOCKPILING TOPSOIL FOR REPLACEMENT, PLACING TOPSOIL OVER ALL DISTURBED AREAS, AND LEVELED SUITABLE ENOUGH FOR SEEDING. GRUBBING OF BRUSH AND TREES FOR EARTHWORK PREPARATION IS ALSO INCLUDED.
15. SCRAPE PONDS IN FLOODPLAIN WILL REMOVE FILL TO ADD COMPENSATORY STORAGE IN THE FLOODPLAIN.
16. TRAFFIC CONTROL IS INCIDENTAL TO PROJECT SPECIFICATION.
17. DEWATERING AND WATER MAINTENANCE IS THE CONTRACTOR'S RESPONSIBILITY, AND IS CONSIDERED INCIDENTAL TO THE PROJECT.
18. STRAW WATTLES WILL BE PLACED ALONG THE CONTOUR ABOVE NEWLY CONSTRUCTED WATER CONTROL STRUCTURE OUTLET PIPE. 100' LENGTHS OF WATTLES WILL BE PLACED AT THE WATER CONTROL STRUCTURE.
19. STRAW WATTLES AREA AVAILABLE IN 9-INCH DIAMETER, 25-FOOT LENGTHS. THEY ARE INSTALLED BY STAKING IN PLACE, AND CAN BE TIED TOGETHER TO ACHIEVE ANY DESIRED LENGTH.
20. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3'-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2"-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKE SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.
21. EMBANKMENT SHALL INCLUDE ALL WORK REQUIRED TO HAUL, PLACE, AND COMPACT FILL MATERIAL TO CONSTRUCT EARTHWORK, AS STAKED IN THE FIELD. ANY MATERIAL EITHER NEEDED OR REMAINING FROM THIS OPERATION SHALL COME FROM EXISTING SCRAPES OR BE DEPOSITED IN DITCH FILLS.
22. RIP-RAP CLASS I IS FOR THE ROCK PLACED DOWNSTREAM OF THE WATER CONTROL STRUCTURE. NON-WOVEN FILTER FABRIC IS REQUIRED BENEATH ALL ROCK/RIP-RAP AND SHALL BE SECURED TO SLOPES AND BOTTOM, USING PINS AS NOTED SPECIFICATION 305. QUANTITY IS BASED ON TONS. CONTRACTOR SHALL PROVIDE SCALE TICKETS WITH WEIGHTS INCLUDING TARE WEIGHTS, GROSS WEIGHTS, AND NET WEIGHTS OF MATERIAL DELIVERED.

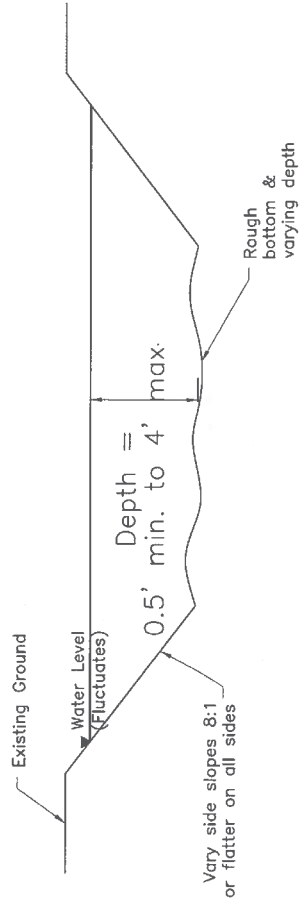
Revisions	Sheet	Description	Date	By



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WETLAND SCRAPE PLAN VIEW



TYPICAL WETLAND SCRAPE CROSS SECTION

Notes:

1. Scrapes/borrow areas will be constructed at locations and as flagged by the technician.
2. Scrapes are to be irregular in shape when completed. Wheel ruts are allowed and desired.
3. Strip minimum 6" of topsoil and stockpile it for spreading, if needed, after the excavation is completed.
4. Spoil shall be used for embankment and ditch fills.

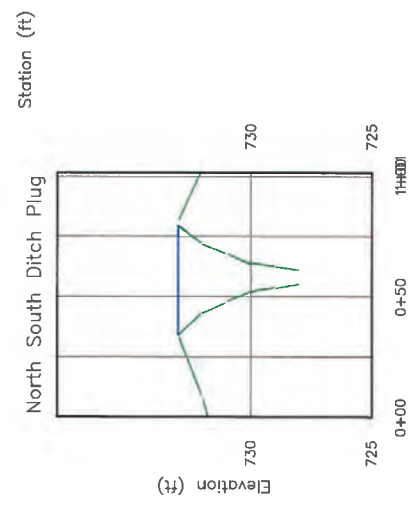
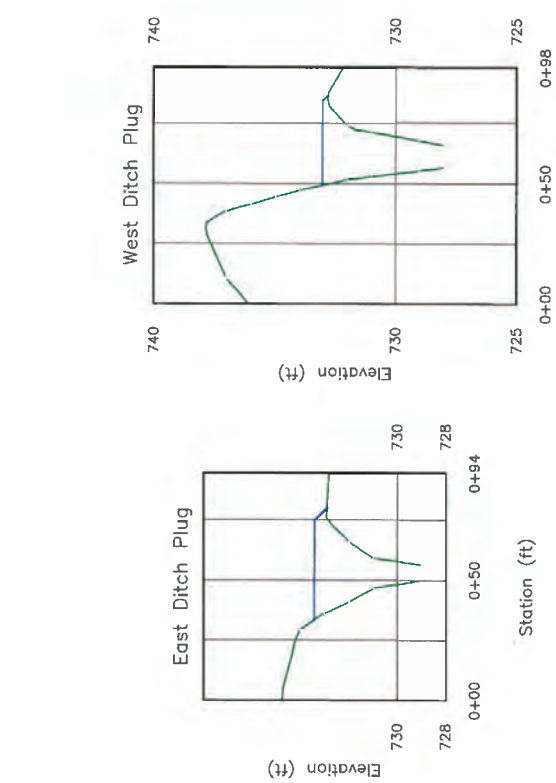
See Sheet 3 for the location of the scrapes

SCRAPE NUMBER	ACRES	CY
1	1.7	6405
2	1.5	5537
3	3.3	12394
4	3.0	10349
5	1.7	6504
6	1.7	6680
9	0.8	1886
10	0.8	2753
11	0.8	2097

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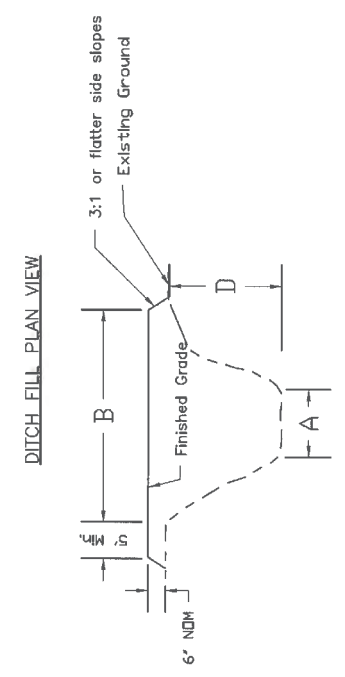
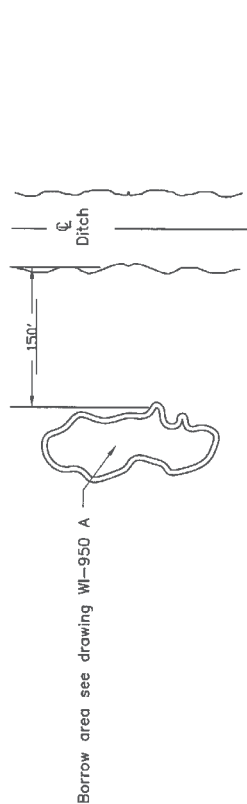


DESIGNED BY:	PHS
DRAWN BY:	PHS
REVISIONS:	001
DATE:	4/13/2021
PROJECT NUMBER:	DC-19-155-1
SHEET #	9



**LEGEND**

	EXISTING GROUND
	PROPOSED DITCH PLUG



See Sheet 3 for the location of the ditch fills

Ditch #	A	B	D	D	Cu. Yd.
N/S	6	40	5	760	4208
E/W	6	30-35	4.5-6	1585	7602
Total Cu.Yd.					11810
DITCH FILL					50380
EMBANKMENT					62190
TOTAL					

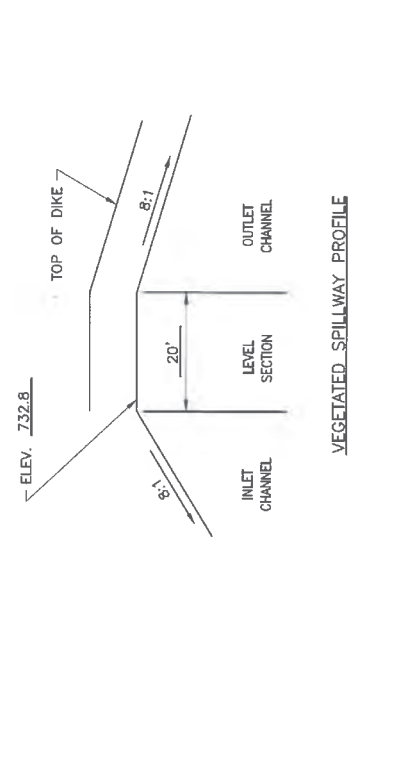
- Notes:**
- Scrapes/Borrow areas will be constructed at locations flagged by the technician.
  - Construction Specification Excavation and Earthfill, will be followed.
  - Seeding will be completed according to sheet 9.

NOTES: Construction is the sole responsibility of the contractor. Ducks Unlimited, Inc. warrants that the information provided in this drawing is true and correct to the best of our knowledge and belief. This warranty does not constitute an endorsement or approval by Ducks Unlimited, Inc. of any products or services mentioned herein. Ducks Unlimited, Inc. is not responsible for the use of the information on this drawing for any purpose other than that for which it was intended. The contractor shall be responsible for the use of the information on this drawing for any purpose other than that for which it was intended.



DESIGNED BY:	WJW/MLT
CHECKED BY:	NDE
DRAWN BY:	WJW/MLT
DATE:	4/13/2021
PROJECT NUMBER:	US-WI-452-1
SHEET NO.	6
TOTAL SHEETS	6

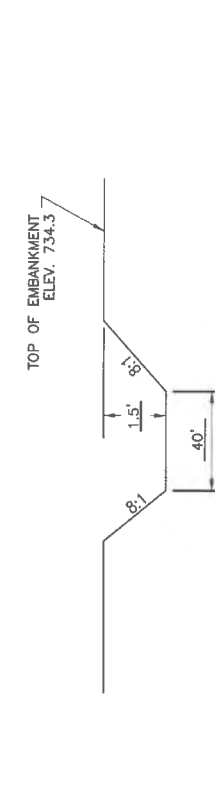
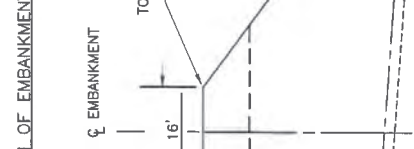
CROSS SECTION OF EMBANKMENT



VEGETATED SPILLWAY PROFILE



VEGETATED SPILLWAY CROSS SECTION AT LEVEL SECTION



NOTES:

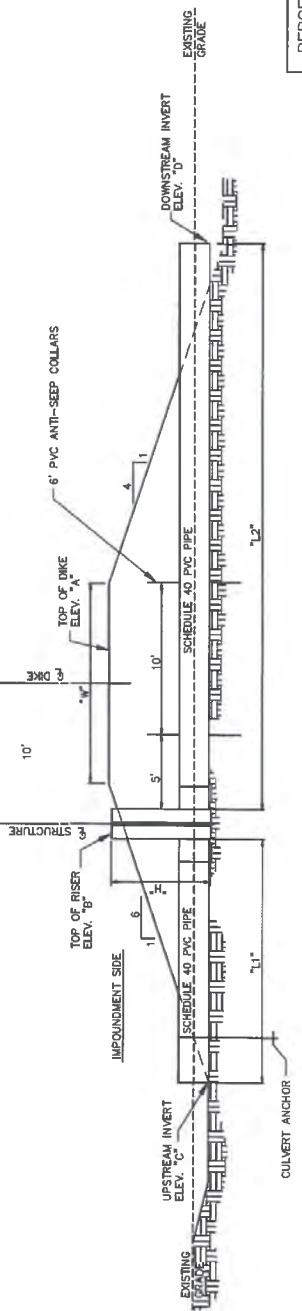
1. THE UPPER 6-INCHES OF SOIL WITHIN THE EMBANKMENT AND VEGETATED SPILLWAY LIMITS SHALL BE STRIPPED AND STOCKPILED FOR REUSE.
2. THE VEGETATED SPILLWAY WILL HAVE AT LEAST A 20' WIDE FLAT SECTION AND GRADE BACK ON ALL SIDES AT AN 8:1 SLOPE.

NOTES:

1. EROSION CONTROL BLANKET SHALL BE CLASS 1 TYPE B DOUBLE NETTING.
2. STAPLES OF 11 GAUGE OR HEAVIER 8" IN LENGTH WILL BE USED TO STAKE DOWN BLANKET.
3. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR BOTH END AND EDGE OVERLAP LENGTHS.
4. BLANKET WILL BE STAPLED PER MANUFACTURERS RECOMMENDATIONS.
5. SPILLWAY INLET AND OUTLET SLOPES WILL BE 8:1 WHICH IS FLATTER THAN THE EMBANKMENT SIDE SLOPES.

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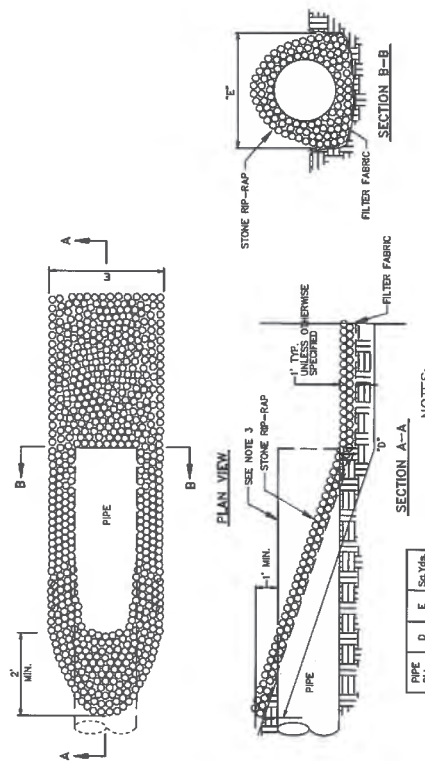


**GRADATION OF ROCK**

PERCENT PASSING BY WEIGHT	SIZE (INCHES)
100	1.4"
60-85	1.1"
25-50	.7"
5-20	.4"
0-5	.2"

**PROFILE OF AGRI-DRAIN® WATER CONTROL STRUCTURE**  
 NOT TO SCALE

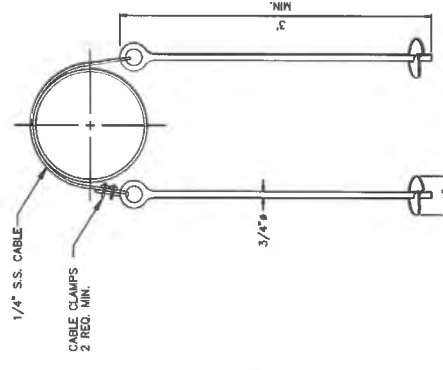
STRUCTURE	PIPE SIZE	RISER SIZE	TOP OF DIKE ELEV. "A"	TOP OF RISER ELEV. "B"	FULL SERVICE LEVEL	INLET ELEV. "C"	OUTLET ELEV. "D"	TOP WIDTH "W"	INLET LENGTH "L"	OUTLET LENGTH "L"	6" - & OFFSET	RISER HEIGHT "H"
1	24	31	734.3	734.5	731.5	725.6	724.5	16	60	40	10	9



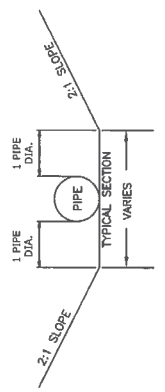
PIPE DIA.	D	E	Sq Yds
12"	17	3	5.5
15"	18	3	6.2
18"	19	3	6.8
21"	20	3	7.5
24"	21	3	8.2
27"	22	3	8.9
30"	23	3	9.7
36"	27	3	11.6
42"	31	3	13.5
48"	35	3	15.4
54"	39	3	17.3
60"	43	3	19.2

- NOTES:
- IF THE RIPRAP CLASS DESIGNATION IS NOT SPECIFIED ON THE CONSTRUCTION PLANS, D50 7" ROCK RIPRAP SHALL BE UTILIZED. THE ROCK SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
  - UNLESS OTHERWISE SPECIFIED, CLASS 1 GEOTEXTILE BE UTILIZED IN THE INSTALLATION OF RIP RAP.
  - DOWNSTREAM PIPE OUTLET SHALL CONFORM TO SLOPE FOR PIPE DIAMETERS 30" AND LARGER.

**CULVERT ANCHOR**  
 NO SCALE



**PIPE INSTALLATION & REMOVAL DETAIL**  
 NOT TO SCALE



THESE CONSTRUCTION DETAILS ARE THE PROPERTY OF DUCKS UNLIMITED, INC. THE USER SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK PERFORMED. ACCORDING TO THE WORK, NEARLY STRUCTURE, OR OTHER PROPERTY ON SITE. ANY CHANGES MADE TO THESE DETAILS SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MATERIALS AND EQUIPMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LABOR. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TOOLS AND EQUIPMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MATERIALS AND EQUIPMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LABOR. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TOOLS AND EQUIPMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

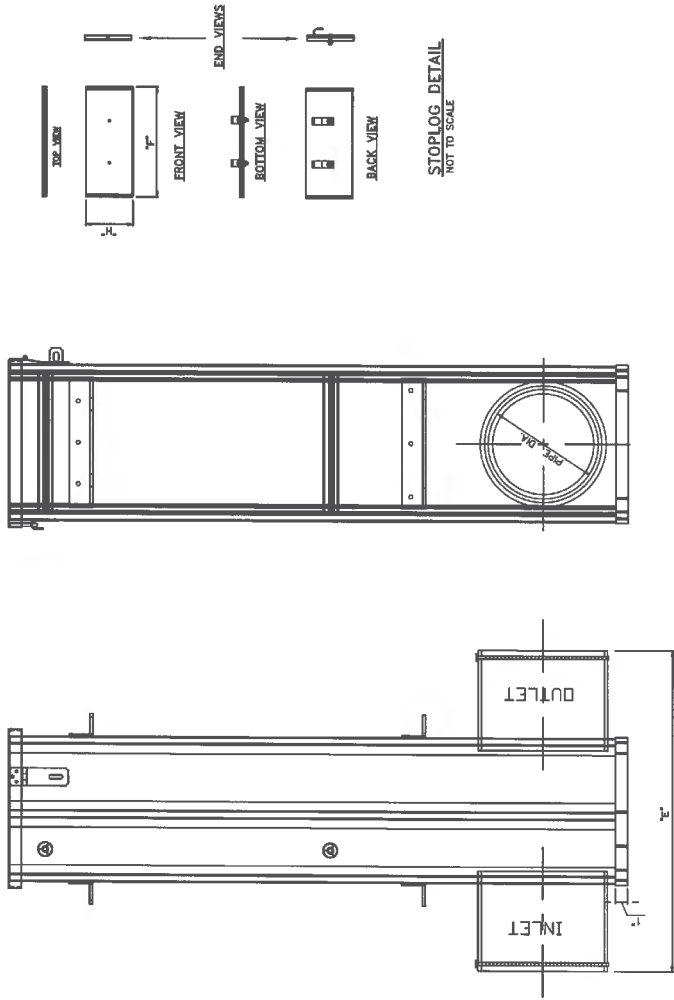


DATE FILED	
DESIGNED BY	DUS
DRAWN BY	
REVISIONS	
APPROVED	
SHEET	
PROJECT	
DATE	
BY	
PROJECT NUMBER	
US-WI-R3P-1	
SHEET #	

PIPE DIA	INSIDE DIM.		COUPLING DIM.		COUPLING LENGTH		STOPLOG DIM.	
	WIDTH	DEPTH	"C" (I.D.)	"D" (I.D.)	"E"	"F"	"G"	"H"
4"	8"	10"	4.42"	4.42"	17.5"	17.5"	7.75"	7.75"
6"	8"	10"	6.38"	6.38"	17.5"	17.5"	7.75"	7.75"
8"	12"	12"	8.50"	8.50"	23.5"	23.5"	11.75"	11.75"
10"	14"	16"	10.60"	10.60"	27.5"	27.5"	13.75"	13.75"
12"	16"	20"	12.83"	12.83"	31.5"	31.5"	15.75"	15.75"
14"	20"	24"	17.49"	17.49"	43.5"	43.5"	21.75"	21.75"
18"	24"	28"	23.00"	23.00"	49.5"	49.5"	23.75"	23.75"
24"	31"	38"	29.00"	29.00"	59.5"	59.5"	30.75"	30.75"

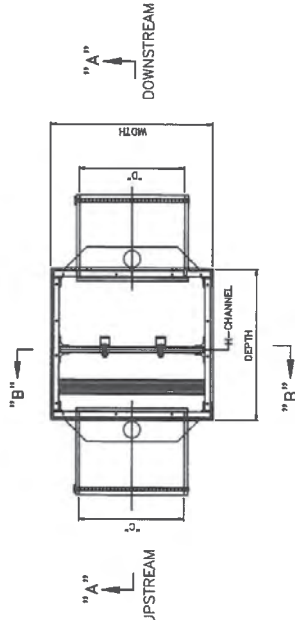
\* ALL APPLICATIONS WILL UTILIZE SCHEDULE 40 PVC PIPE

AGRI-DRAIN® (OR EQUIVALENT) INLINE WATER LEVEL CONTROL  
 STRUCTURE DETAIL  
 NOT TO SCALE



SECTION "A" - "A"

SECTION "B" - "B"



PLAN VIEW  
 DRAWN WITH FERROD 1056 COUPLER

AGRI-DRAIN is a registered trademark of Ducks Unlimited, Inc. All other trademarks are the property of their respective owners. Ducks Unlimited, Inc. is not responsible for the accuracy of the information provided in this drawing. The user of this drawing is advised to verify the accuracy of the information provided in this drawing. The user of this drawing is advised to verify the accuracy of the information provided in this drawing. The user of this drawing is advised to verify the accuracy of the information provided in this drawing.

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

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

- 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 (Apr 1-Sept 1)
  - Oats - 2 bushels per acre (Apr 1-Sept 1)
  - Annual Ryegrass - 20 Pounds per acre (Apr 1-Sept 1)
- 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)

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

**MULCHING WILL BE COMPLETED ON EMBANKMENT**  
 Mulching shall be done immediately after seedbed preparation and seeding. Mulch shall be applied immediately after final grading for areas seeded at a later date. Mulch material shall be relatively free of disease, pesticides, chemicals, noxious weed seeds, and other pests and pathogens.

Spread straw and hay mulch uniformly and at the rate of 1.5-2.0 tons per acre (60-70 bales). This application results in a layer of 6 to 7 stems, 1 to 2 inches thick, and provides a minimum 70% ground cover. Some soil surface can be seen after the application. Crimping (disking), wood cellulose fiber, tackifiers, netting, pinning, or other acceptable methods of anchoring will be used to hold the mulch in place.

If other mulch materials are used, the rate of application shall meet the manufacturer's recommendations. Two (2) tons/ac of 80-89 lime or equivalent from UJW-EXT-A3671

Lime Quality	Tons / AC.	Lime Quality	Tons / AC.
40-49	3.9	70-79	2.3
50-59	3.2	90-99	1.9
60-69	2.7	100+	1.6

SEEDING MIX (DESIGN)	LOCATION: BERM & PLUGS ACRES	SEEDING MIX (AS-BUILT)	LOCATION ACRES
17	11.00		

SEEDING MIX (DESIGN)	SPECIES	RATE	POUNDS	LOCATION ACRES	RATE	POUNDS
Redtop		1.3	13.8			
Timothy		3.8	41.3			
Red Clover		6.3	66.8			
** Winter Wheat		120.0	1320.0			

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

ADDITIONAL SEED PERCENT: 25 %  
 Mulching Required: Yes

\*\* 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 additions 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 firm, 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 DATES**  
 SOUTH

TIME PERIOD	DATES	TYPE OF SEEDING
Spring	April 1 through May 15	Permanent
Summer	May 16 through August 29	Temporary *
Late Summer	August 7 through August 30	Permanent
Fall	August 30 through November 1	Temporary *
Late Fall	through Snow Cover	Dormant
Winter	through March 31	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 (P2O5), 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 Winter Wheat at 120 #/ac ( 2 bu/ac)  
 A permanent seeding shall be completed during the next acceptable time period following a temporary seeding.

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