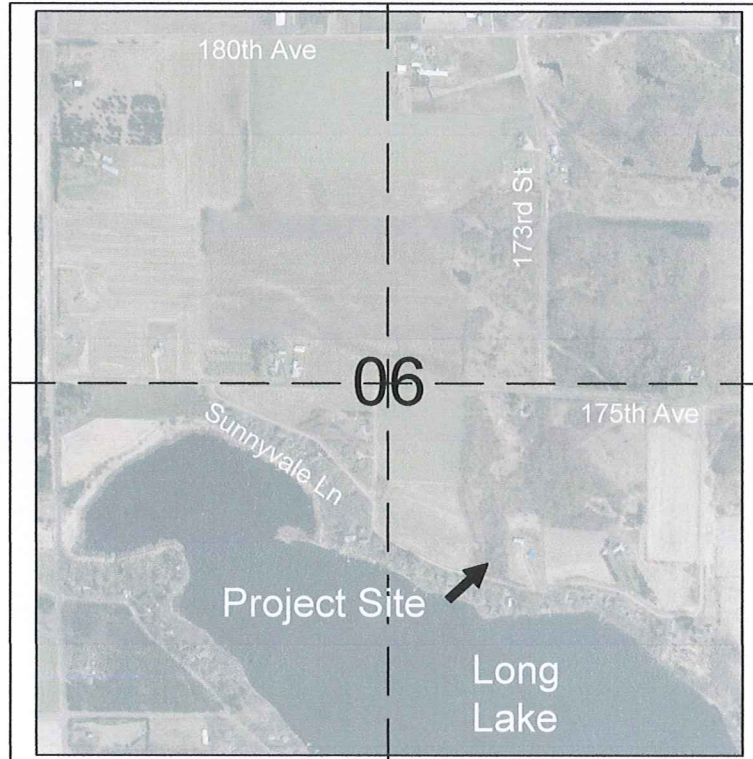


CONSTRUCTION PLAN

PRACTICE WATER AND SEDIMENT CONTROL BASIN (638)  
 LANDOWNER CHARLES TURNER  
 ADDRESS 1763 180th STREET, CENTURIA, WI 54824  
 LANDOWNER PHONE NO. 715-646-2036 COUNTY POLK  
 TOWNSHIP BALSAM LAKE T 34 N, R 17 W, Sec. 6  
 FIELD OFFICE POLK COUNTY LWRD TELEPHONE NO. 715-485-8699

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



LOCATION MAP

NOTICE TO LANDOWNERS AND EXCAVATORS

Any representation made by the USDA, Natural Resources Conservation Service, or the POLK County LWRD, 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 Diggers Hotline) Ticket # \_\_\_\_\_

Designed by: SCOTT GEDDES, P.E. Date: 08/2016  
 Checked by: [Signature] Date: 8/24/16  
 Approved by: [Signature] Date: 11/14/16

The installed practices comply with applicable NRCS technical standards and specifications. The "redlined" construction plans (as-built drawings) reflect changes made during construction.

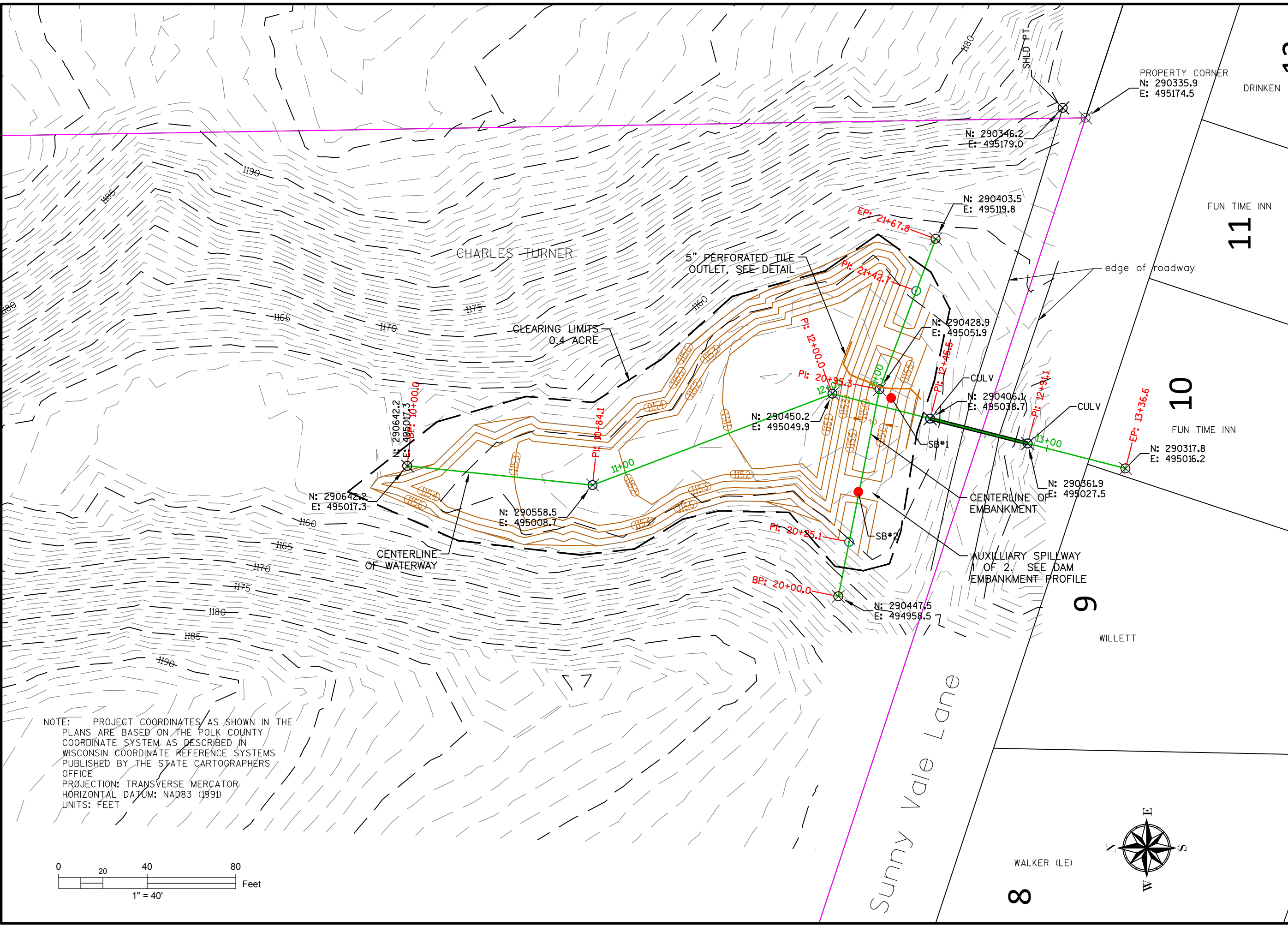
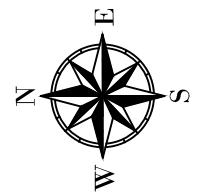
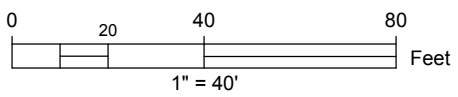
Construction Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Job Approval Class 2

Sheet 1 of 8



NOTE: PROJECT COORDINATES AS SHOWN IN THE PLANS ARE BASED ON THE POLK COUNTY COORDINATE SYSTEM AS DESCRIBED IN WISCONSIN COORDINATE REFERENCE SYSTEMS PUBLISHED BY THE STATE CARTOGRAPHERS OFFICE  
 PROJECTION: TRANSVERSE MERCATOR  
 HORIZONTAL DATUM: NAD83 (1991)  
 UNITS: FEET



Date	08/2016
Designed	SEC
Drawn	
Checked	
Approved	

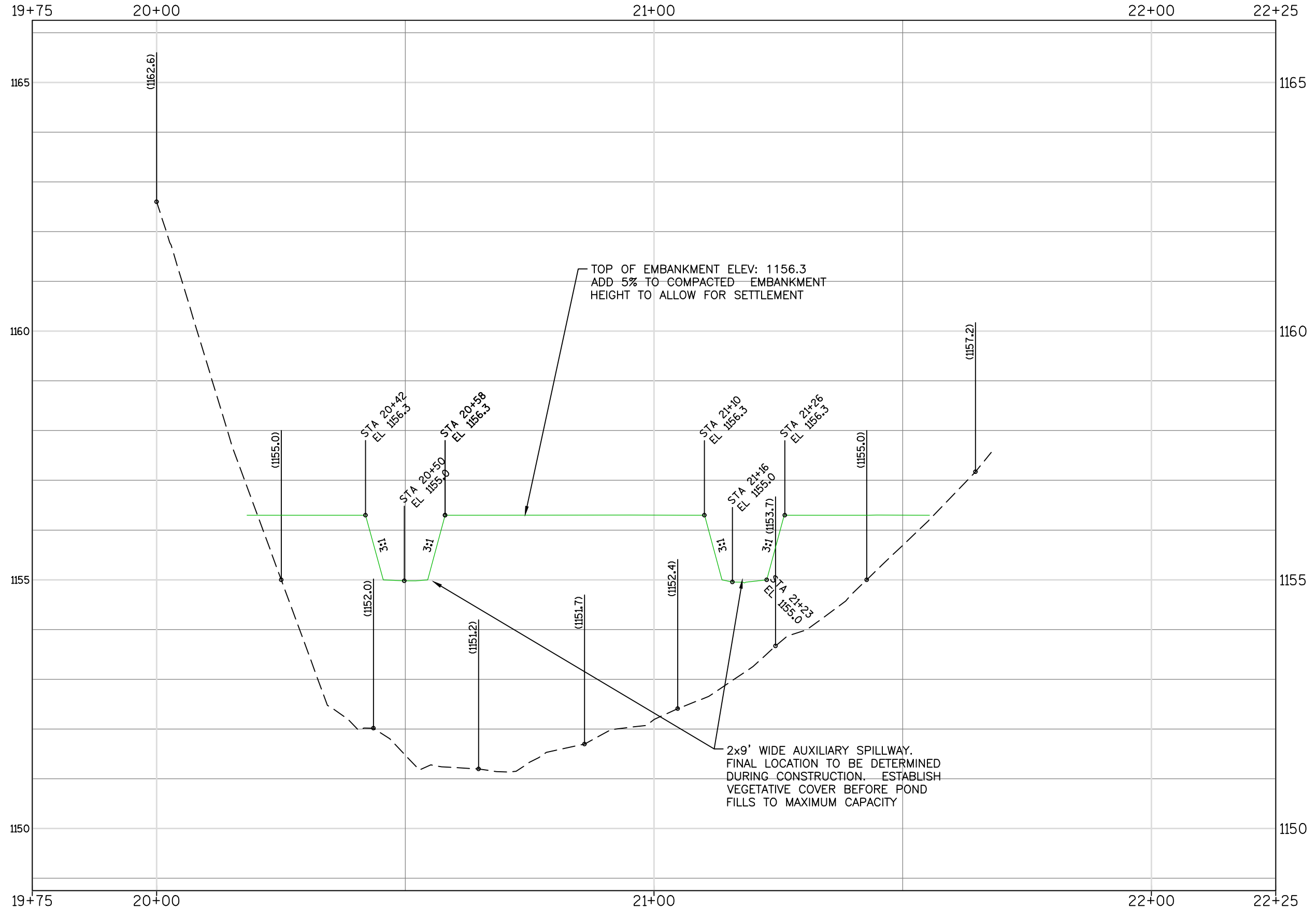
**PLAN VIEW**

OWNER: CHARLES TURNER  
 COUNTY: POLK



Drawing Name	WI-014
Date	06/14
Sheet	3 of 8

# EMBANKMENT PROFILE



Date	06/2016
Designed	SEG
Drawn	
Checked	
Approved	

**EMBANKMENT PROFILE**

OWNER: CHARLES TURNER

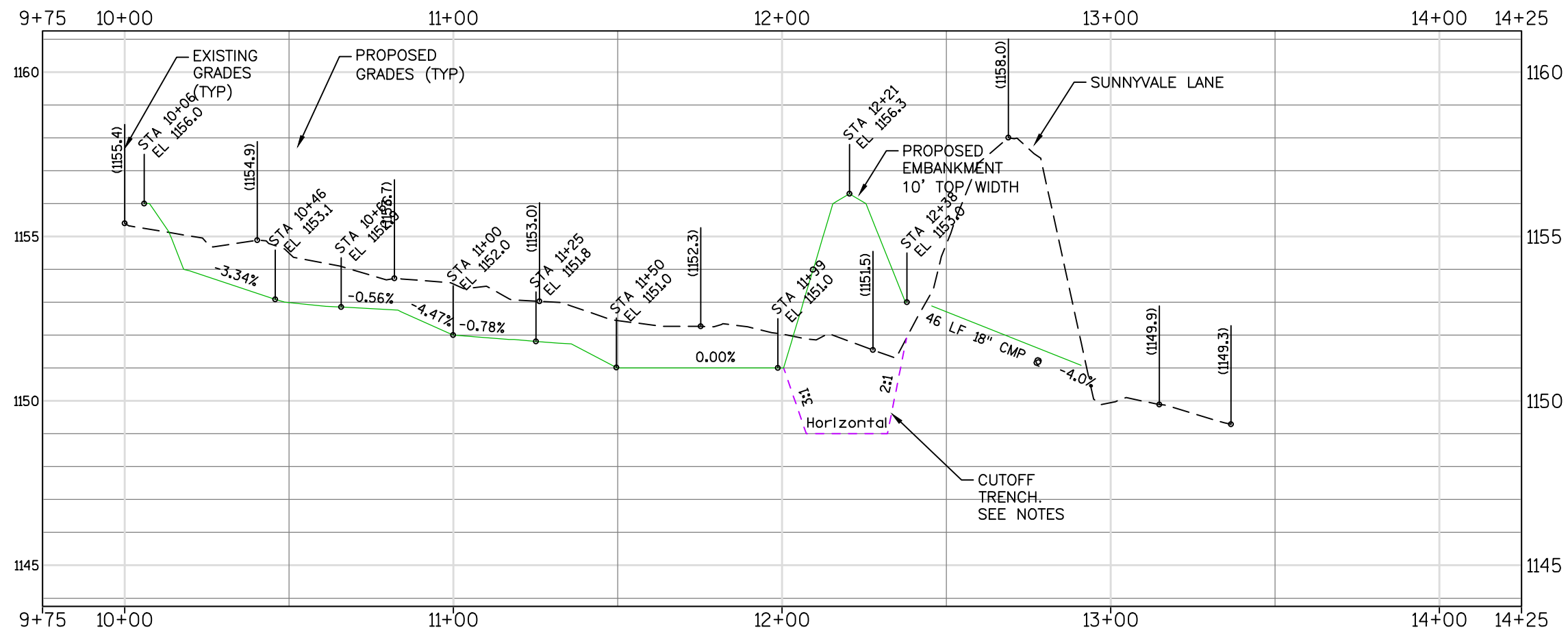
COUNTY: POLK



Drawing Name	WI-014
Date	06/14
Sheet	4 of 8



# WATERWAY PROFILE



**NOTES:**

1. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AND SEQUENCE THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. DNR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES AND CHAPTER 10 OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION FACILITY DEVELOPMENT MANUAL SHALL BE USED AS A GUIDE
2. ALL AREAS OF THE EMBANKMENT, AUXILIARY SPILLWAY, OUTLET CHANNEL AND OTHER DISTURBED AREAS OF THE PERMANENT POOL SHALL BE SEEDDED IN ACCORDANCE WITH NRCS FOTG STANDARD FOR CRITICAL AREA PLANTING (342). THESE VEGETATED AREAS WILL BE PROPERLY MANAGED TO PREVENT GRAZING DAMAGE. BORROW AREAS SHALL BE SEEDDED AS NEEDED, ACCORDING TO LAND USE PRACTICES.
3. A CUTOFF OF RELATIVELY IMPERVIOUS MATERIAL SHALL BE PROVIDED UNDER THE EMBANKMENT TO REDUCE SEEPAGE THROUGH THE FOUNDATION. THE CUTOFF SHALL BE LOCATED AT OR UPSTREAM FROM THE CENTERLINE OF THE EMBANKMENT. IT SHALL EXTEND UP THE ABUTMENTS AS REQUIRED AND BE DEEP ENOUGH TO EXTEND INTO A RELATIVELY IMPERVIOUS LAYER OR PROVIDE FOR A STABLE EMBANKMENT.
4. THE CUTOFF TRENCH SHALL HAVE A BOTTOM WIDTH ADEQUATE TO ACCOMMODATE THE EQUIPMENT USED FOR EXCAVATION, BACKFILL AND COMPACTION OPERATIONS. TRENCH SIDE SLOPES SHALL NOT BE STEEPER THAN 1:1

Date	08/2016
Designed	SEG
Drawn	
Checked	
Approved	

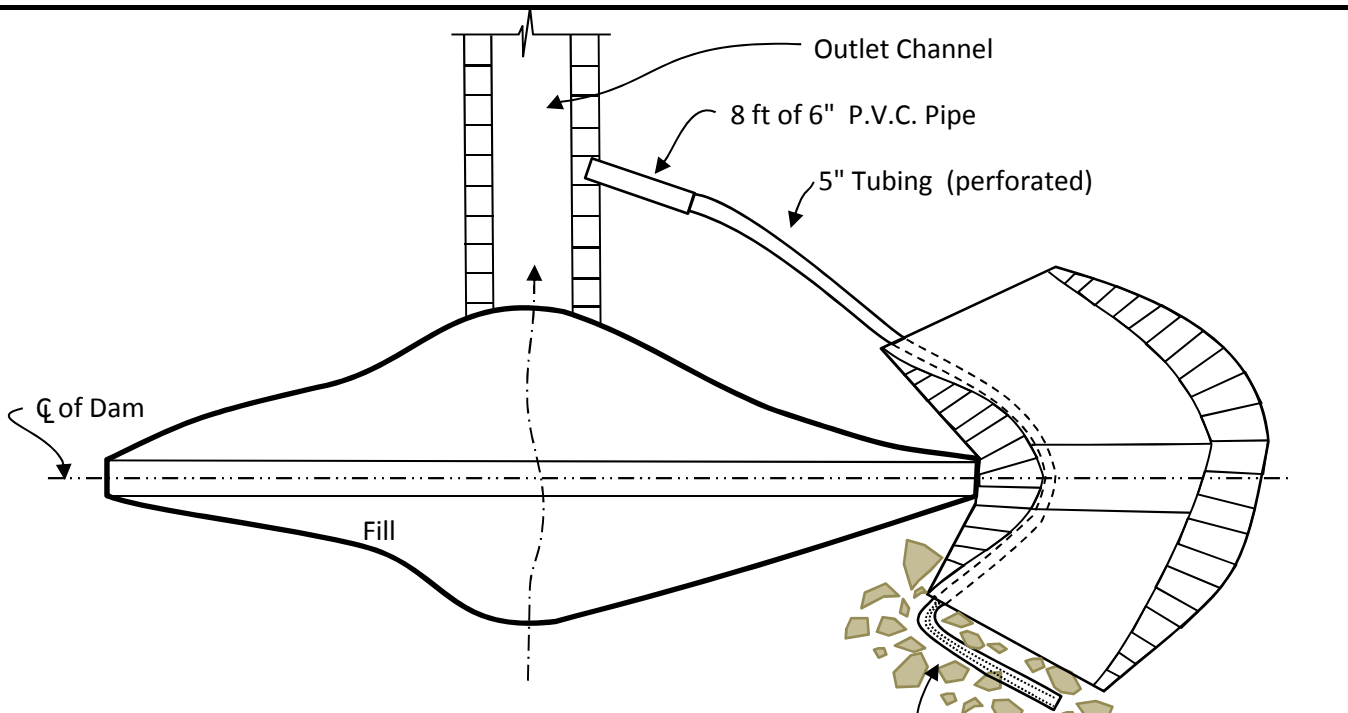
**PROFILE VIEW**

OWNER: CHARLES TURNER  
 COUNTY: POLK



Drawing Name  
 WI-014

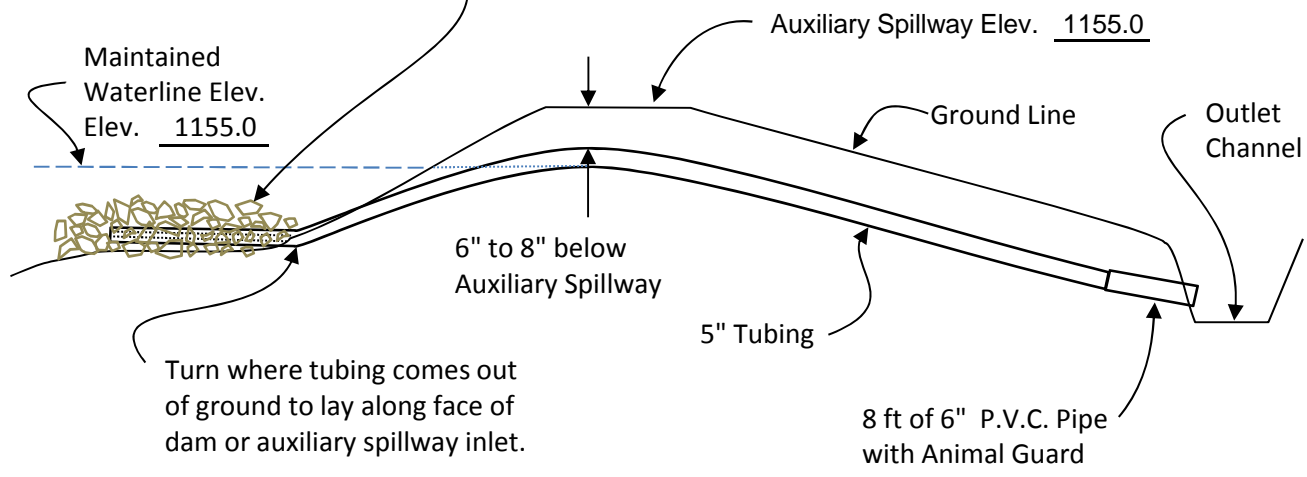
Date  
 06/14



**TYPICAL PLAN VIEW**

Cover with one foot minimum of gravel or crushed stone.

Cover with approximately 4 tons of gravel or crushed stone



**TUBING PROFILE**

BILL OF MATERIALS	
ITEM	Quant.
P.V.C. Pipe <u>6</u> in. Dia.	<u>8</u> Ft
Perforated Plastic Tubing <u>5</u> in. Dia.	<u>50</u> Ft
Gravel or Crushed Stone	<u>4</u> Tons

Not to Scale

DRAWING NO. IN-ENG-41.XLS (REV. 6/81)



**PERFORATED TRICKLE TUBE FOR EMBANKMENT POND W/D.A. LESS THAN 10 AC-**  
 Landuser Charles Turner  
 Location Long Lake  
 Polk County LWRD, Wisconsin  
 Section 6 T 34N R 17W

Designed	.....	Date	.....
Drawn	.....		
Checked	.....		
Approved	.....		
Title	.....		

SEEDING DATES

TIME PERIOD	DATES			TYPE OF SEEDING
Spring	APRIL 15	through	JUNE 1	Permanent
Summer	JUNE 2	through	JULY 31	Temporary *
Late Summer	AUG 1	through	AUG 21	Permanent
Fall	AUG 22	through	OCT 14	Temporary *
Late Fall	OCTOBER 15	through	snow cover	Dormant
Winter	snow cover	through	Spring Seeding	Frost Seed 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 (K20) per acre. Apply two tons/ac of 80-89 lime or equivalent. (see page 2 for equivalent)

\* Seed a temporary cover crop of \_\_\_\_\_ at a rate of \_\_\_\_\_ pounds/acre. ( \_\_\_\_\_ Bushels/acre)  
 A permanent seeding shall be completed during the next acceptable time period following a temporary seeding.

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

SEEDING MIX <u>327-5</u> BASIC WET PRAIRIE			LOCATION <u>SLOPES, POND</u> ACRES <u>0.5</u>		SEEDING MIX _____			LOCATION _____ ACRES _____	
SPECIES	RATE	POUNDS	SPECIES	RATE	POUNDS				
COMMON IRONWEED	1 OZ/AC	0.03							
BLUE VERVAIN	1	0.03							
SWITCHGRASS	16	0.5							
PRAIRIE CORDGRASS	8	0.25							
BIG BLUESTEM	16	0.5							
INDIANGRASS	16	0.5							
VIRGINIA WILDRIE	20	0.6							

1. PLS = (% Germination X % Purity)

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 1/4 to 1/2 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.

 United States Department of Agriculture Natural Resources Conservation Service	INTRODUCED SPECIES SEEDING ESTABLISHMENT		Date <u>08-2016</u> Designed <u>SEG</u>	File Name WI-710	
	CLIENT: <u>CHARLES TURNER</u>		Drawn _____	Date 02/15	
	COUNTY: <u>POLK</u>		Checked _____	Approved _____	Sheet 7 of 8

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)

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 is required.)                    ~~(Mulching is not required.)~~

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 if needed 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 UW–EXT A3671

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