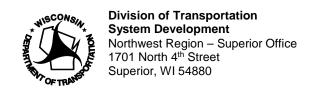
DNR / DOT PROJECT REVIEW

State of Wisconsin – Department of Natural Resources (DNR) and Department of Transportation (WisDOT) DTNR0002 12/2012

DNR Internet: http://dnr.wi.gov/		http://www.dot.wisconsin.gov/				
SHAWN HASELEU		Wisconsin Department of Transportation				
WISCONSIN DEPARTMENT OF NATU	RAL RESOURCES	Division of Transp	portation Systems Development			
NORTHERN REGION HDQRS		NORTHWEST REG	GION- SUPERIOR OFFICES			
810 W. MAPLE ST.		1701 N. 4TH ST.				
SPOONER, WI 54801		SUPERIOR, WI 54	880-1068			
Inform WisDOT Regional Environmental Co	ordinator, if more than 4	5 days is needed.				
Design Project ID	Project Highway		Review Submittal Date (m/d/yy)			
1560-02-01	USH 63		12/11/17			
Construction Project ID 1560-02-70	Estimated Project Cost (\$4,000,000.00 to \$		Construction Year (yyyy) 2019			
Project Name	ψ+,000,000.00 ισ ι	Project Limits	2019			
HAYWARD - DRUMMOND		STH 27 - LARSEN	RD			
County		Project on Tribal Land				
SAWYER		☐ Yes				
Contact Name		Contact (Area Code) Ph	none Number			
MATT DICKENSON Section/Township/Range		(715) 395-3022				
14,15,22 &23, T.35N R 12W						
Type of Review Requested		Document Type				
Initial Review		Environmental Assessment (EA)				
		Environmental Re				
☐ Scope Change		□ Programmatic Environmental Report (pER)				
Other:						
WisDOT Project Classification		Work Involved				
☐ Bridge Rehabilitation, FDM 3-5-2		⊠ Beam Guard Rep	placement			
☐ Bridge Replacement , FDM 3-5-2		☐ Borrow and/or Waste Site Required				
Expansion, FDM 3-5-2		Channel Change/Stream Relocation				
Pavement Replacement, FDM 3-5-2		☐ Clearing and Grubbing				
☐ Preventive Maintenance, FDM 3-1-5☐ SHRM (State Hwy Rehab/Maint), Maintenance	nance Manual 13 08					
Recondition, FDM 3-5-2	nance Manual 13.00	☐ Bredging ☐ Grading				
Reconstruction, FDM 3-5-2		☐ Stading ☐ Slope ☐ Slope				
Resurface, FDM 3-5-2		Intersection Impress	-			
☐ Safety (HSIP), PMM 4-1-10		□ Right of Way Accord	quisition			
☐ Other:		Shoulder Work				
		Storm Sewer				
		Other:				
Storm Water Management (check all	hat apply)					
NPDES MS4/Urbanized Area	J					
☐ TMDL Implementation Area						
TWDE Implementation Alea						

Project Description and Reason for Project: (include project location map with limits and necessary attachments; attach additional sheets if needed)

See Attachment 1.



Scott Walker, Governor Mark Gottlieb, P.E., Secretary

Internet: www.dot.wisconsin.gov

Telephone: 715-392-7925 Facsimile (FAX): 715-392-7863

E-mail: nwr.dtsd@dot.wi.gov

Attachment 1: Description & Need

June 5, 2017

RE: WISDOT Project 1560-02-01, (Sawyer County)
USH 63, Hayward - Drummond; STH 27 – Larsen Rd

Project Description:

This pavement replacement project involves removing the existing concrete pavement, crushing it, and relaying it as aggregate base. It will then be overlaid with asphaltic HMA pavement. Select culverts will be replaced, permanent signing will be replaced, select beam guard will be replaced, and the intersection of USH 63 and Hospital Road will be improved due to existing crash history at this intersection. All real estate and permits will be acquired before the start of construction. A total of 0.75 acres of wetland impacts are expected during construction and will be mitigated at an approved wetland bank site. This project is scheduled to be let on November 13, 2018 and will be constructed under detour during the summer of 2019.

Purpose & Need:

The purpose of this project is to replace the existing deteriorated concrete, rehabilitate highway culverts, and reconstruct an intersection to improve safety. The existing pavement is at the end of its life and needs to be replaced for the safety of the traveling public.

Travis Jensen, E.I.T. Project Leader

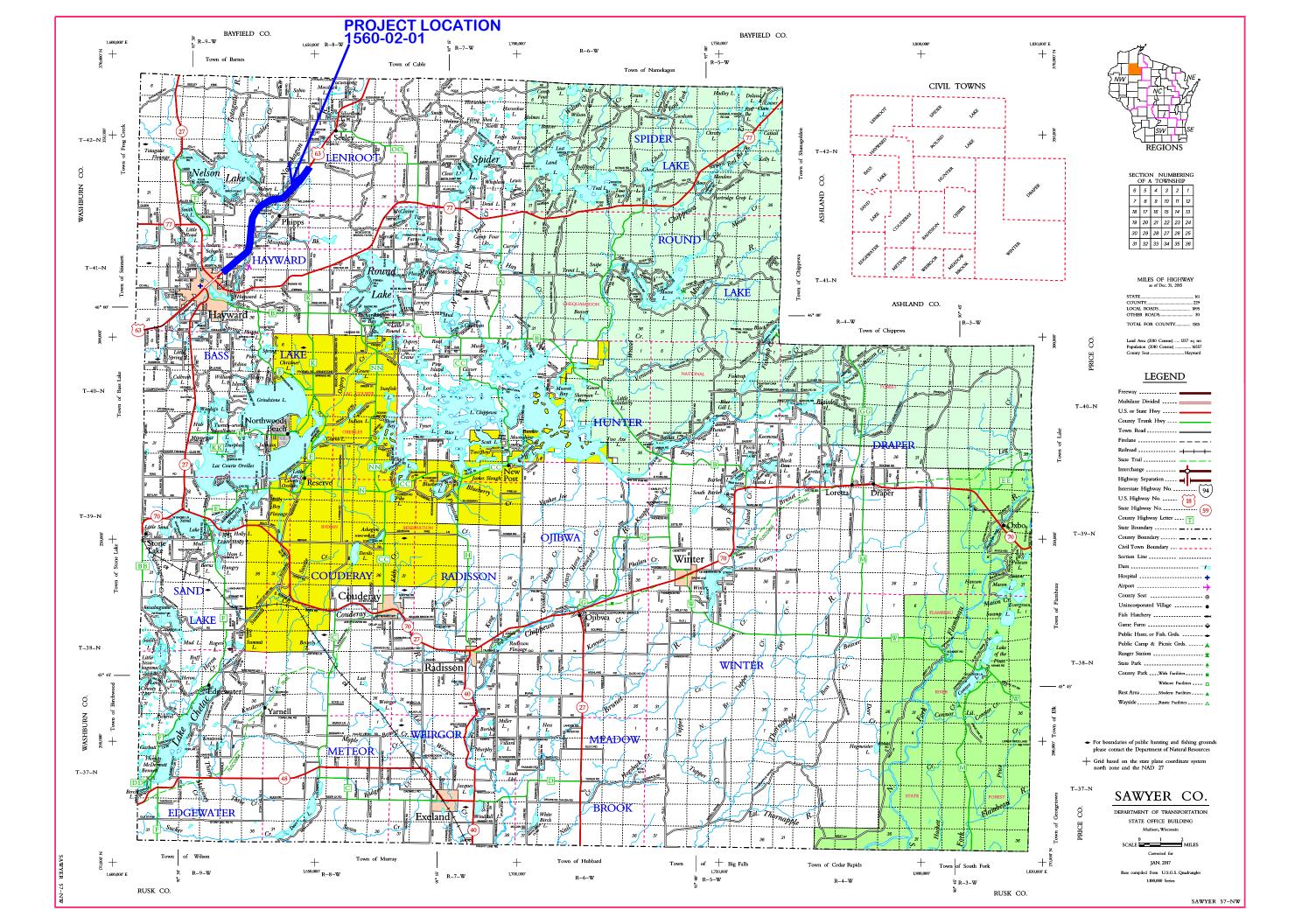
Attachments:

Attachment 1: Description & Need
Attachment 2: Project Location Map

Attachment 3: Wetland Delineation Report

Attachment 4: Special Provisions

Attachment 5: Plan Set



Wetland Delineation Report

Project ID# 1560-02-01/70

Hayward – Drummond STH 27 to Larsen Rd. USH 63 Sawyer County



Prepared by the Wisconsin Department of Transportation Northwest Region Daniel Fuller 1701 N 4th Street Superior, WI 54880 October 2017

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Project Summary

The Wisconsin Department of Transportation (WisDOT) has proposed a resurfacing project along with an intersection realignment between Hayward and Drummond in Sawyer County. As part of the resurfacing project. The intersection of USH 63, Hospital rd. and Airport will be realigned.

There are unavoidable wetland impacts associated with this project. The area surrounding construction has been delineated according to the <u>US Army Corps of Engineers 1987 Wetland Delineation Manual</u> and the <u>US Army Corps of Engineers 2012 Northcentral and Northeast Supplement</u> and the impacted wetland type and acreage have been determined based on three criteria—vegetation, hydrology, and soils.

Wetland Delineators

The delineation for project 1560-02-01/70 was conducted on 6/15/2017 by Dave Runquist and Daniel Fuller. Mr. Runquist was an intern with WisDOT and attended the University of Wisconsin-Superior. He graduated with a BS majoring in biology with a plant emphasis and a minor in Earth sciences in May 17. He attended the basic and advanced wetland delineation training in July 2015. Mr. Fuller is currently an intern with the WisDOT and is attending the University of Wisconsin – Superior, majoring in broad field science and biology education. He will graduate with a B.S. in May 2018. In 2013, Mr. Fuller graduated from UW-Superior with a B.S. in biology and continued his education at Royal Botanic Garden in Edinburgh, receiving a M.S. in biodiversity and taxonomy of plants. He attended the basic and advanced wetland delineation training in June 2017.

Equipment

In order to conduct the delineation, several pieces of field equipment were used, including:

- Trimble Geo XH Global Positioning System Unit 6000 Series
- Munsell® Soil Color Chart 2010 edition
- -20 inch WSA soil boring tool
- Field identification books:
 - "Wetland Plants and Plant Communities of Minnesota and Wisconsin" 2nd Ed.
 - "Wildflowers of Wisconsin and the Great Lakes Region; A Comprehensive Field Guide" 2nd Ed.
 - "A Great Lakes Wetland Flora" 3rd Ed.

In the office, software programs were used, including:

- -GPS Pathfinder Office Software version 4.10
- -Microstation V8i 2010 Edition
- Microsoft Office Series 2007

Pre-Delineation Resources

- United States Agriculture Department- Natural Resource Conservation Service
 - Web Soil Survey

Hydric soil map

Department of Natural Resources

 Surface Water Data Viewer
 WI Wetland Inventory Map

Delineation Methods

Wetlands are delineated by examining an area for the presence of wetland indicators. There are three categories of indicators used to determine if an area is a wetland: vegetation, hydrology, and soils. Samples and observations of these wetland indicators are necessary for proper delineation. First, a site walk of the project area is completed in order to identify areas that may fit the wetland criteria. Second, transects are set up perpendicular to the proposed wetland boundary and data plots are taken. Data plots are usually taken in reference to obvious changes in topography and/or vegetation. At each of the data plots, criteria for hydrophytic vegetation, hydric soils, and hydrology is checked for.

A list of the most prevalent plant species is made and then compared to the *National List* of *Plant Species that Occur in Wetlands*, published by the U.S. Fish and Wildlife Service, in order to determine the likelihood of that species occurring in a wetland by defining their wetland indicator status.

Soil samples are collected using a soil probe or shovel to collect the first 20 inches of soil. Examination of the sample is then conducted for evidence of saturation, as well as other soil indicators listed in the <u>US Army Corps of Engineers 1987 Wetland Delineation Manual</u>. This manual is used as a reference guide to compare our methods, observations, and data with proper delineation techniques and information.

Field observation of the soils, vegetation, and the general area are used determine the presence of hydrology indicators.

After soil samples, lists of vegetation, and on-site hydrology observations are made and recorded, in conjunction with using reference materials and on site observations, wetland areas are confirmed. After verifying the wetland area, the wetland boundary is delineated between upland and wetland plots.

The resurfacing and intersection realignment will permanently impact nine wetland areas. The area surrounding construction has been delineated and the impacted wetland type and acreage have been determined.

Vegetation:

- It is stated in the <u>US Army Corps of Engineers 1987 Wetland Delineation Manual</u> that "hydrophytic species, due to morphological, physiological, and/or reproductive adaptation(s), have the ability to grow, effectively compete, reproduce, and/or persist in anaerobic soil conditions". These species are labeled FAC, FACW, and/or OBL. Accordingly, if an area is dominated by ≥50% of these species, it meets the wetland vegetation requirement.
- Through species identification, the impacted wetlands were all determined to have hydrophytic dominance in proportions ≥50%. Dominant species include Slender

willow (Salix petiolaris), Red-osier dogwood (Cornus alba), Lake sedge (Carex lacustris), Quaking aspen (Populus tremuloides), Speckled alder (Alnus incana), Woodland horsetail (Equisetum sylvaticum), and Barren strawberry (Waldsteinia fragarioides), Meadow sweet (Spirea alba), Reed canary grass (Phalaris arundinacea), Canada Bluejoint (Calamagrostis canadensis), Hummock sedge (Carex stricta), Tamarack (Larix laricina), Red maple (Acer rubrum), Winterberry (Ilex verticillata), Bunchberry (Cornus canadensis), and Low-bush blueberry (Vaccinium angustifolium). The hydrophytic vegetation present at these plots is similar to common species found among Wet Meadow (M), Shrub Scrub (SS), and Riparian Forest (RPF) wetland environments. The species found in these plots are listed in the vegetation section of the Routine Wetland Delineation Forms located in Appendix B.

Hydrology:

- Paragraph 55 of the <u>US Army Corps of Engineers 1987 Wetland Delineation</u>
 <u>Manual</u> states, "an area has wetland hydrology if it is inundated or saturated to the surface continuously for at least 5% of the growing season in most years (50% probability of recurrence)." The growing season for this definition is determined based on the number of frost-free days for a certain area.
- Hydrology of the impacted wetland areas was determined using several indicators. Primary indicators of observed were Surface water (A1), High water table (A2), and Saturation (A3). Secondary indicators observed were Moss trim line (B16), Geomorphic position (D2), Microtopographic relief (D4), and FACneutral test (D5).

Soils:

- According to the U.S.D.A Natural Resources Conservation Service (NRCS) a hydric soil is, "A soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part."
- The Soil Survey and the Hydric Soils List for Sawyer County were obtained from the United States Department of Agriculture (USDA). The soil type listed for the areas impacted by this project is muck and sandy soils. This soil is listed on the USDA Hydric Soils List as soils that are very poorly drained to moderately well drained.

1. Wetlands 1,2,5-9

<u>Seelyeville and Markey soils</u>: Soils are listed on the NRCS Web Soil Survey as having a very poorly drained drainage class, with frequent ponding. Depth to water table is about 0 inches.

Map unit symbol: 407A

Wetland type: Wet Meadow (M), Shrub Scrub (SS), Riparian Forest (RPF)

2. Wetland 3 & 4

<u>Lenroot loamy sand</u>: Soils are listed on the NRCS Web Soil Survey as having a moderately well drained drainage class, with no frequency to ponding or flooding. Depth to the water table is about 24 inches. Map unit symbol: 711A

Wetland type: Wet Meadow (M) & Riparian Forest (RPF)

• Soil samples were taken at all data plots to 20 inches or to an unavoidable resistance. Hydric soil indicators present throughout this project were Sandy mucky mineral (S1), Redox dark surface (F6), Coast prairie redox (A16) Dark surface (S7) were the hydric soil indicators present. Full soil profiles are included in the Routine Wetland Delineation Forms in Appendix B.

Delineation

Nine different wetlands have been determined to be within the limits of the project. The delineation of the wetlands included the establishment of six upland monitoring sites as well as nine wetland sites. All sites will be affected by the proposed project. Below is the summary for the wetlands that will be impacted.

- Wetland 1- Wet Meadow (M) (Monitoring Forms 1-2)
 - Monitoring form 1 (Wetland 1): This wetland lies on the east side of USH 63 and north of Airport rd. and is associated with a Wet Meadow (M) wetland type. Dominant hydrophytic species in this area was Slender willow (Salix petiolaris), Red-osier dogwood (Cornus alba), and Lake sedge (Carex lacustris); non-dominant species include Quaking aspen (Populus tremuloides), Meadow sweet (Spirea alba), Blue-flagged iris (Iris versicolor), and Bristly-dew berry (Rubus hispidus). At this site, sandy soil was found. The soils were completely saturated and the hydric soil indicators found were Sandy mucky mineral (S1), Redox dark surface (F6), and Coast prairie redox (A16). 1 ¾ inches of surface water was found at this site.
 - Monitoring form 2 (Upland 1): The upland portion of this site was dominated by Poverty oats grass (*Danthonia spicata*) and red fescue (*Festuca rubra*). Soils were not obtained due to refusal at the surface.
- Wetland 2- Shrub Scrub (SS) (Monitoring Forms 3-4)
 - Monitoring form 3 (Wetland 2): This wetland lies on the east side of USH 63 and north of Airport rd. and is associated with a Shrub Scrub (SS) wetland type. Dominant hydrophytic species in this area were Slender willow (Salix petiolaris) and Lake sedge (Carex lacustris); non-dominant species include Speckled alder (Alnus incana) and Hummock sedge (Carex stricta). At this site, sandy soil was found. The soils were completely saturated and the hydric soil indicator found was Sandy mucky mineral (S1). Ten inches of surface water was found at this site.
 - o Monitoring form 4 (Upland 2): The upland portion of this site was dominated by Quaking aspen (*Populus tremuloides*), Paper birch (*Betula papyrifera*), Bracken fern (*Pteridium aquilinum*), and Bristly dewberry (*Rubus hispidus*). Soils were not obtained due to refusal at the surface.
- Wetland 3- Riparian Forest (RPF) (Monitoring Forms 5-6)

- O Monitoring form 5 (Wetland 3): This wetland lies on the north and south sides of Airport rd. and is associated with a Riparian Forest (RPF) wetland type. Dominant hydrophytic species in this area were Quaking aspen (Populus tremuloides), Speckled alder (Alnus incana), Woodland horsetail (Equisetum sylvaticum), and Barren strawberry (Waldsteinia fragarioides); non-dominant species include Red maple (Acer rubrum), Boxelder (Acer negundo), Meadow sweet (Spirea alba). Beaked hazel (Corylus cornuta), Canada Bluejoint (Calamagrostis canadensis), Quill sedge (Carex tenera), Velvet-leaf blueberry (Vaccinium myrtilloides), Bristly-dew berry (Rubus hispidus), Common sow thistle (Sonchus oleraceus), and Early-meadow rue (Thalictrum dioicum). At this site, sandy soil was found. The soils were saturated at a depth of 2½ inches. No hydric soil indicator was found here.
- Monitoring form 6 (Upland 3): The upland portion of this site was dominated by Kentucky bluegrass (Poa pratensis) and Sheep sorrel (Rumex acetosella). Soils were not obtained due to refusal at the surface.
- Wetland 4- Wet Meadow (M) (Monitoring Forms 7-8)
 - o Monitoring form 7 (Wetland 4): This wetland lies on the south side of Airport rd. and is associated with a Wet Meadow (M) wetland type. Dominant hydrophytic species in this area were Meadow sweet (Spirea alba), Speckled alder (Alnus incana), and Reed canary grass (Phalaris arundinacea); non-dominant species include Sensitive fern (Onoclea sensibilis), Raspberry (Rubus idaeus), Lake sedge (Carex lacustris), and Canada Bluejoint (Calamagrostis canadensis). At this site, sandy soil was found. The soils were saturated at a depth of 5 inches and the hydric soil indicator found was Sandy mucky mineral (S1).
 - o Monitoring form 8 (Upland 4): The upland portion of this site was dominated by Red maple (*Acer rubrum*), Jack pine (*Pinus banksiana*), Quaking aspen (*Populus tremuloides*), Bush honeysuckle (*Diervilla lonicera*), Kentucky bluegrass (*Poa pratensis*), and Bracken fern (*Pteridium aquilinum*). Soils were not obtained due to refusal at the surface
- Wetland 5- Wet Meadow (M) (Monitoring Forms 9-10)
 - o Monitoring form 9 (Wetland 5): This wetland lies on the south side of Airport rd. and is associated with a Wet Meadow (M) wetland type. Dominant hydrophytic species in this area was Reed canary grass (*Phalaris arundinacea*), Lake sedge (*Carex lacustris*), and Canada Bluejoint (*Calamagrostis canadensis*); there were no non-dominant species at this site. At this site, sandy soil was found. The soils were completely saturated and the hydric soil indicator found was Sandy mucky mineral (S1).
 - o <u>Monitoring form 10 (Upland 5)</u>: The upland portion of this site was dominated by Kentucky bluegrass (*Poa pratensis*). Soils were not obtained due to refusal at the surface
- Wetland 6- Wet Meadow (M) (Monitoring Forms 11-12)
 - o Monitoring form 11 (Wetland 6): This wetland lies on the north side of USH 63 and on the north side of Hospital rd. and is associated with a Wet Meadow (M) wetland type. Dominant hydrophytic species in this area were Hummock sedge (Carex stricta) and Lake sedge (Carex lacustris); non-dominant species include Canada goldenrod (Solidago canadensis). At this site, sandy soil was found. The

- soils were completely saturated and the hydric soil indicator found was Dark surface (S7).
- o <u>Monitoring form 12 (Upland 6)</u>: The upland portion of this site was dominated by Kentucky bluegrass (*Poa pratensis*) and Smooth brome (*Bromus inermis*). Soils were not obtained due to refusal at the surface
- Wetland 7- Shrub Scrub (SS) (Monitoring Forms 13-14)
 - Monitoring form 13 (Wetland 7): This wetland lies on the north side of USH 63 and on the north side of Hospital rd. and is associated with a shrub scrub (SS) wetland type. Dominant hydrophytic species in this area were Slender willow (Salix petiolaris), Lake sedge (Carex lacustris), and Hummock sedge (Carex stricta); non-dominant species include Meadowsweet (Spirea alba), Slender willow (Salix petiolaris), Field horsetail (Equisetum arvense), and Flat-leaf bladderwort (Utricularia intermedia). No soil was obtained due to 16" of surface water.
 - Monitoring form 14 (Upland 7): The upland portion of this site was dominated by Kentucky bluegrass (*Poa pratensis*). Soils were not obtained due to refusal at the surface.
- Wetland 8- Wet Meadow (M) (Monitoring Form 15)
 - Monitoring form 15 (Wetland 8): This wetland lies on the north side of USH 63 and on the south side of Hospital rd. and is associated with a Wet Meadow (M) wetland type. Dominant hydrophytic species in this area were Hummock sedge (Carex stricta); non-dominant species include Lake sedge (Carex lacustris), Canada thistle (Cirsium arvense), Purple-stemmed aster (Symphyotrichum puniceum). At this site, clay soil was found. The soils were saturated at a depth of 11 inches and the hydric soil indicator found was Redox dark surface (F6). No surface water was found at this site.
- Wetland 9- Riparian Forest (RPF) (Monitoring Form 16)
 - o Monitoring form 16 (Wetland 9): This wetland lies on the south side of Hospital rd. and is associated with a Riparian Forest (RPF) wetland type. Dominant hydrophytic species in this area were Tamarack (Larix laricina), Red maple (Acer rubrum), Winterberry (Ilex verticillata), Bunchberry (Cornus canadensis), and Low-bush blueberry (Vaccinium angustifolium); non-dominant species include Quaking aspen (Populus tremuloides), Paper birch (Betula papyrifera), Beaked hazel (Corylus cornuta), Speckled alder (Alnus incana), Cinnamon fern (Osmundastrum cinnamomeum), Canada Bluejoint (Calamagrostis canadensis), Stalked-grained sedge (Carex stipata), Quill sedge (Carex tenera), Canada mayflower (Maianthemum canadense), and Red maple (Acer rubrum). At this site, sandy soils were found. The soils were completely saturate. No hydric soil was found.

Wetland Impacts

The cumulative **permanent** wetland impacts for the USH 63 project in Sawyer County are 0.750 acres. The impacted acreage consists of:

- 0.120 acres of Shrub Scrub (SS) from the resurfacing and realignment on USH 63.
- 0.490 acres of Riparian Forest (RPF) from the resurfacing and realignment on USH 63.

• 0.140 acres of Wet Meadow (M) from the resurfacing and realignment on USH 63. The permanent losses will be mitigated according to and at a ratio consistent with the

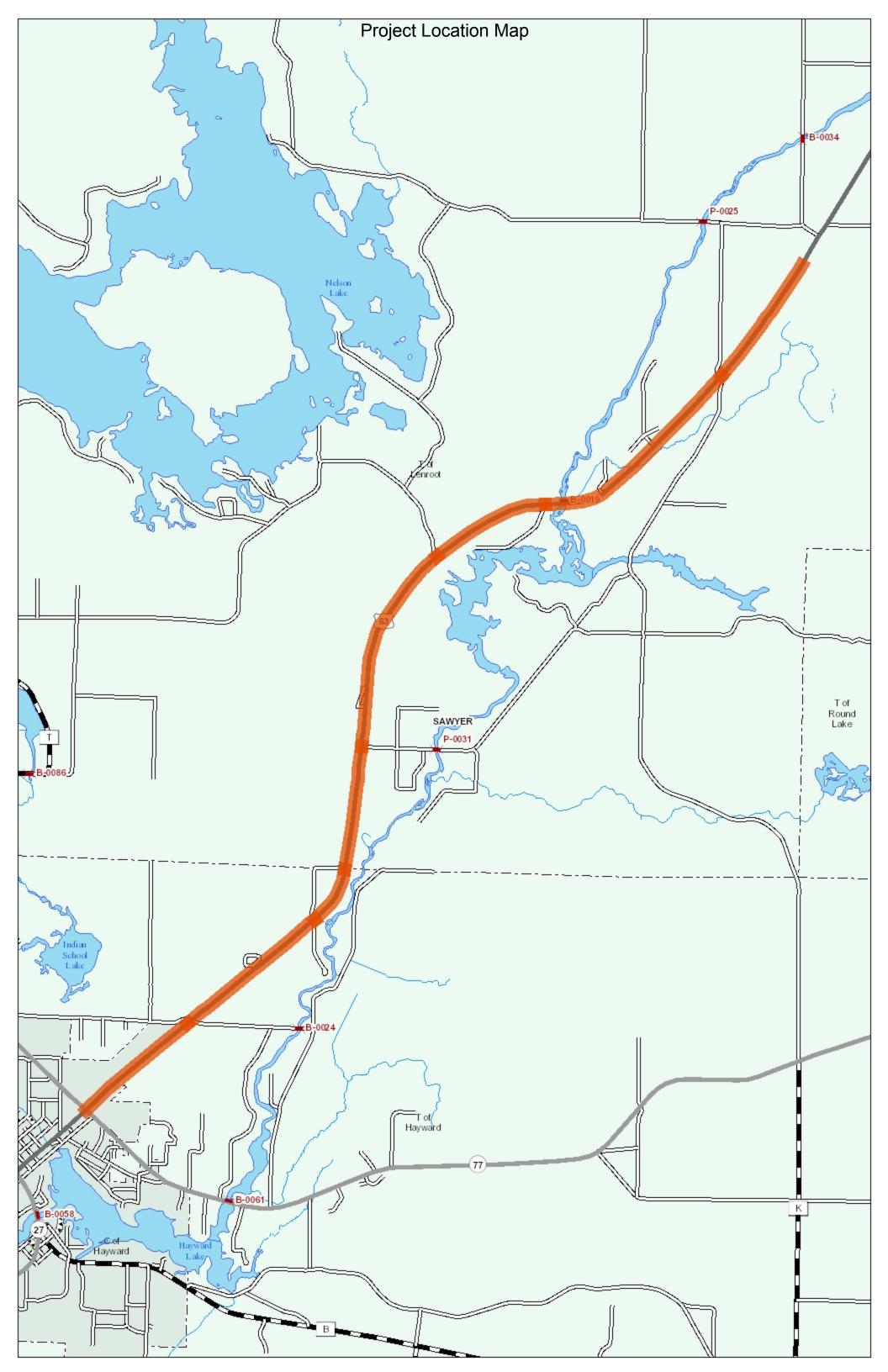
Wisconsin DOT Wetland Mitigation Banking Technical Guideline (2002 revision). Delineation monitoring forms demonstrating wetland criteria in each sampling area can be found in Appendix B of this report. Photos of the delineated areas for these projects are located in Appendix C (Photos 1-16).

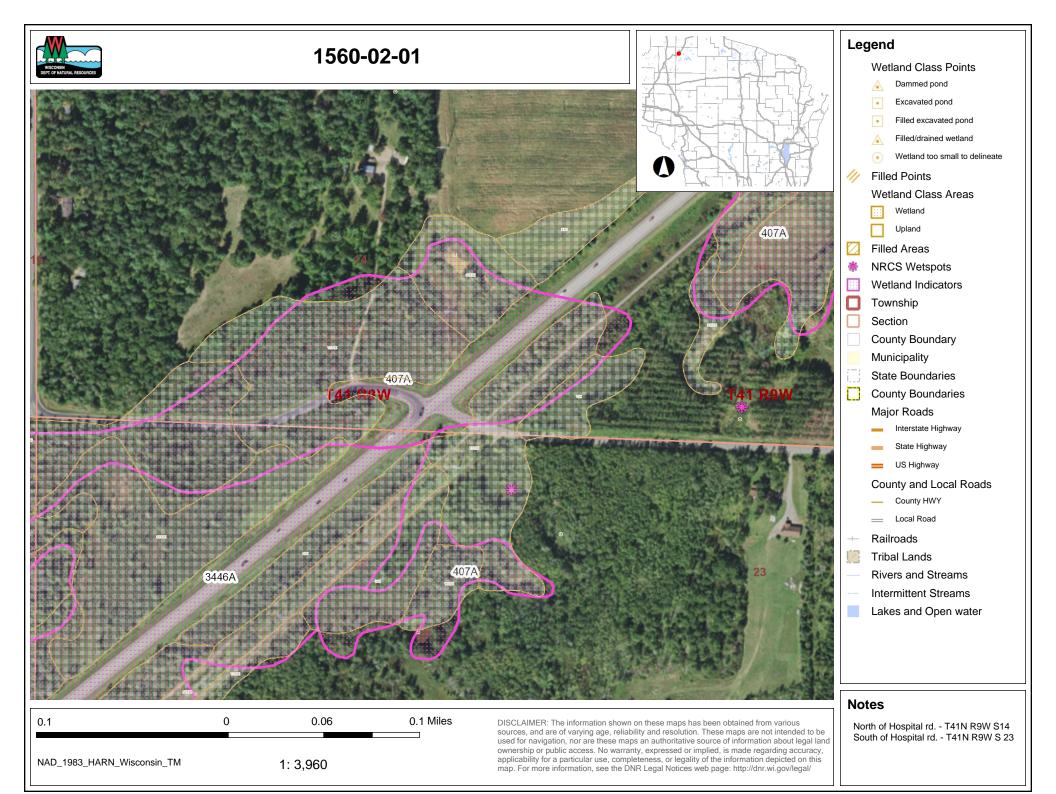
Wetland Mitigation

According to the NRCS, "mitigation is compensation through wetland restoration, enhancement, or creation for functions and values that are lost on a converted wetland". The total permanent wetland impact for the USH 63 project located in Sawyer County is 0.750 acres. The permanent losses will be mitigated by debiting them to the WisDOT Eitenmiller Wetland Mitigation Bank Site in Rusk County at a ratio consistent with the Wisconsin DOT Wetland Mitigation Banking Technical Guideline (2002 revision). The 0.120 acres of Shrub Scrub (SS) wetland will be mitigated at a 1:1.2 compensation ratio to Shallow Marsh (SM) totaling 0.145 acres; the 0.490 acres of Riparian Forest (RPF) wetland will be mitigated at a 1:1.5 compensation ratio to Shallow Marsh (SM) totaling 0.745 acres; the 0.140 acres of Wet Meadow (M) wetland will be mitigated at a 1:1 compensation ratio to Wet Meadow (M) totaling 0.140 acres. A Wetland Impact Tracking Form (WITF) is included at the end of Appendix A, summarizing the wetland losses and mitigation plans.

Appendix A

Tables and Figures







MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

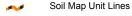
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

iviaisii oi swaiii

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot
Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Sawyer County, Wisconsin Survey Area Data: Version 14, Sep 27, 2016

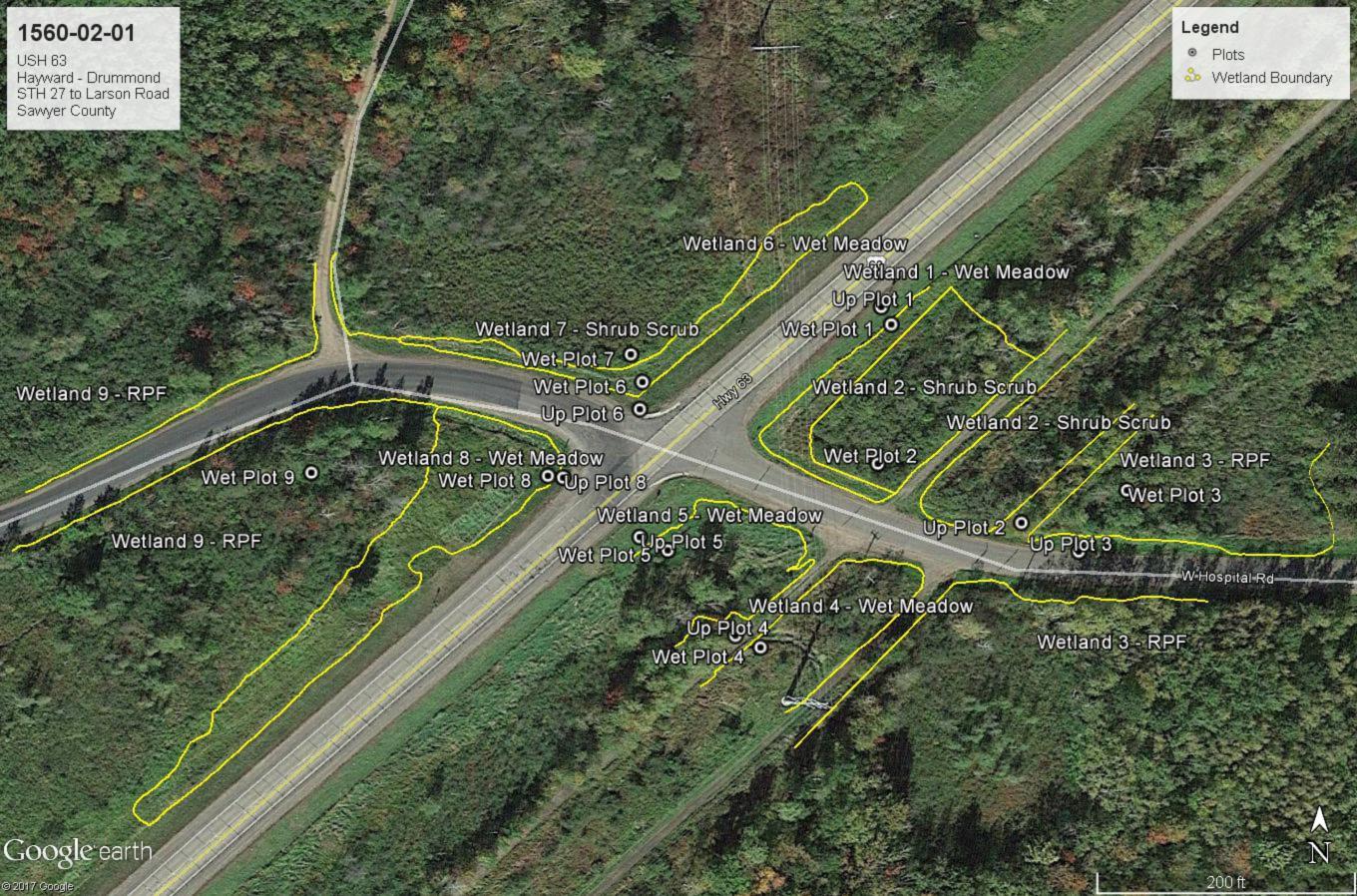
Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Sep 9, 2011—Oct 2, 2011

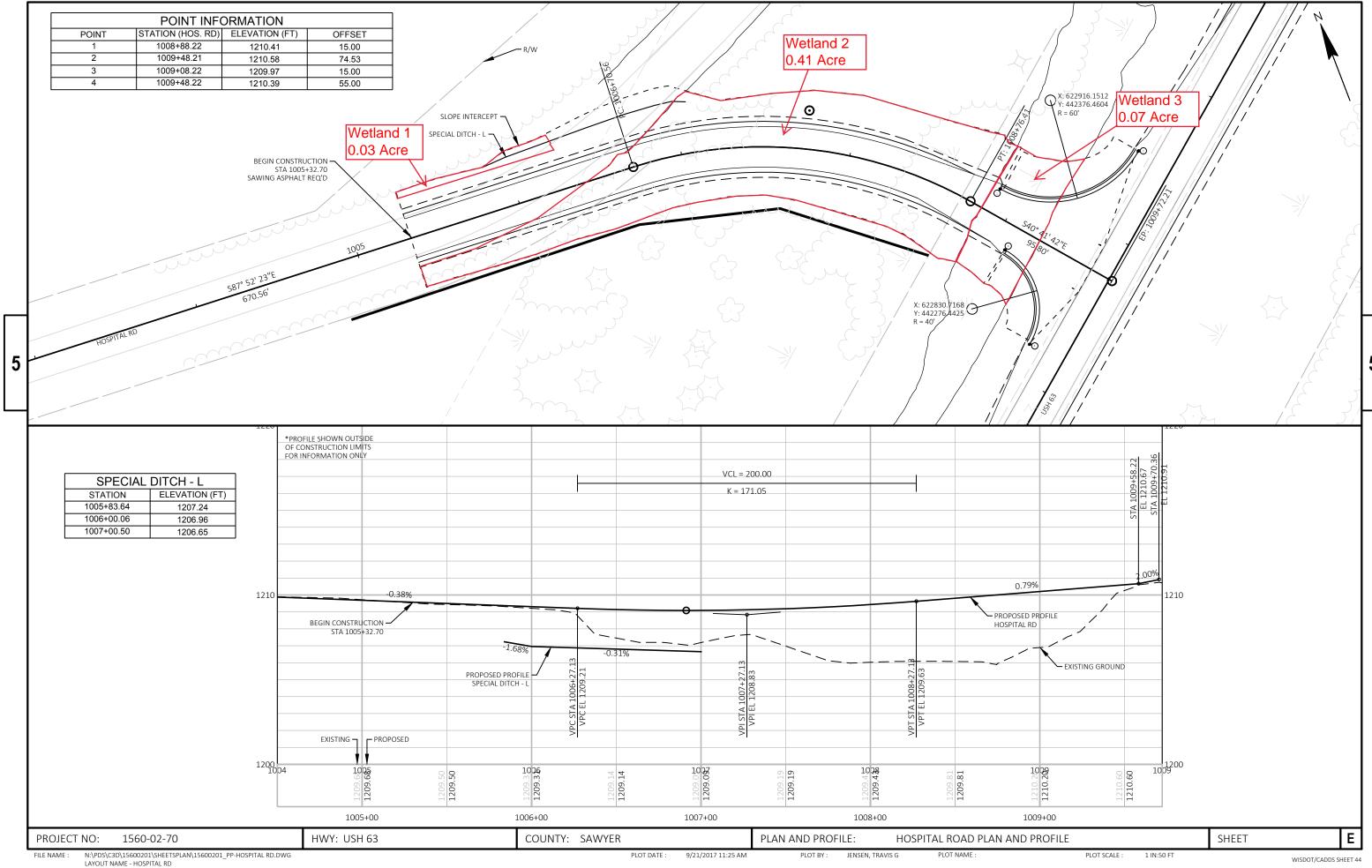
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

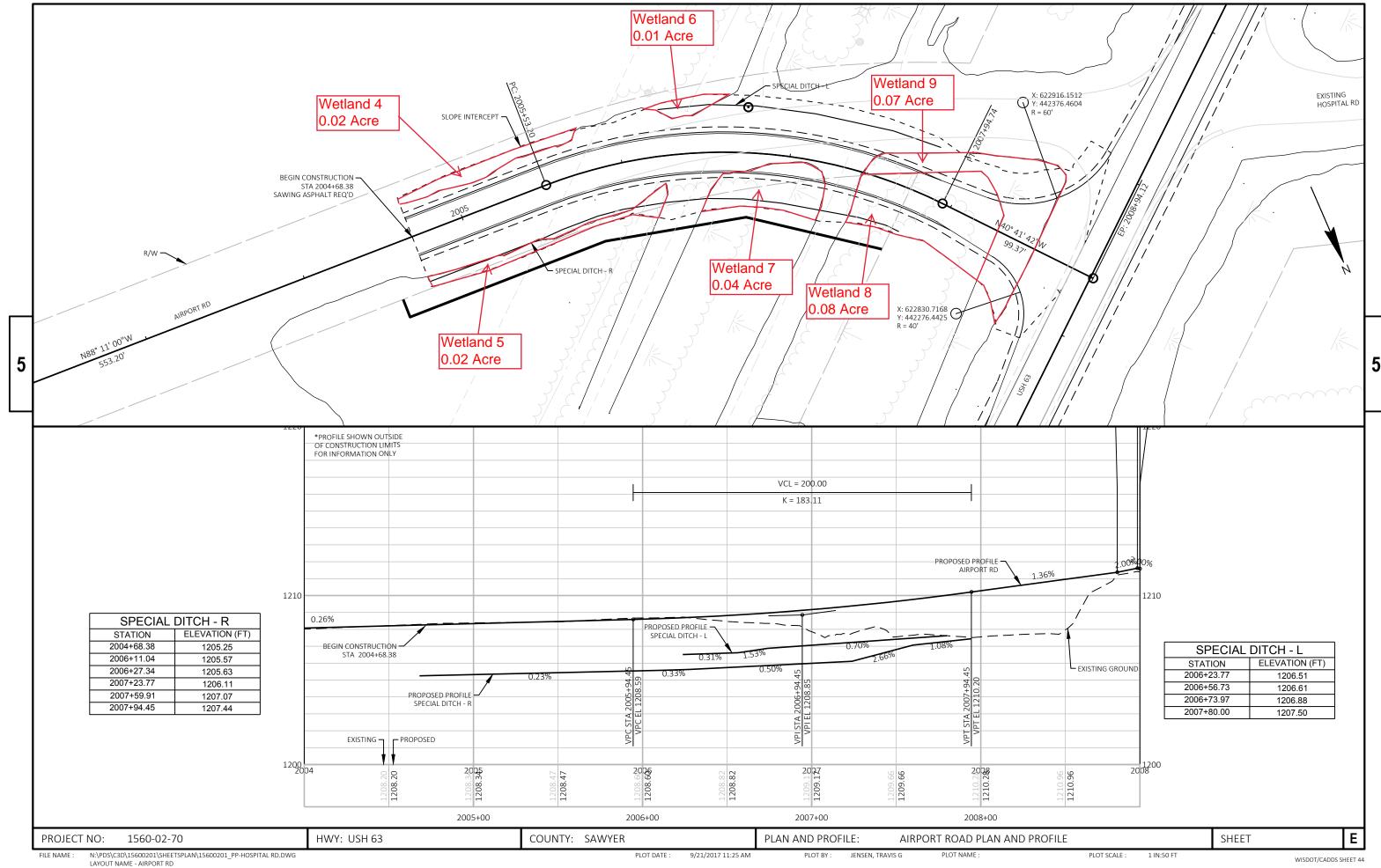
Map Unit Legend

Sawyer County, Wisconsin (WI113)							
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI				
383B	Mahtomedi loamy sand, 0 to 6 percent slopes	7.3	11.6%				
383C	Mahtomedi loamy sand, 6 to 12 percent slopes	1.0	1.6%				
407A	Seelyeville and Markey soils, 0 to 1 percent slopes	20.0	31.9%				
771A	Lenroot loamy sand, 0 to 3 percent slopes	24.6	39.3%				
3446A	Newson muck, 0 to 2 percent slopes	9.8	15.6%				
Totals for Area of Interest		62.7	100.0%				



Wetland Impact Map





Wisconsin Department of Transportation

Division of Transportation System Development Northwest Region

WETLAND IMPACT TRACKING FORM

**	This form must be fill	led or	it for all i	project	ts.**		
Return This Completed Form to:		•	_				
Amy Adrihan	Please Complete All		Project Desig	n I.D. #:		1560-02-0	
Environmental Coordinator	Information Highlighted In		Project Cons	truction	I.D. #:	1560-	02-70
WisDOT - NW Region	Yellow	Hwy/	Project Title	:	Hayward	l - Drummo	nd
1701 N. 4th St		•		STH	27 - Larser	n Rd	
Superior, WI 54880	WisDOT Regional		County:		Saw	yer	
Phone: (715)-392-7972	Environmental Coordinator		Construction	Year:	2019		
amy.adrihan@dot.wi.gov	(REC) Will Complete Sections		Date this form	n is com	pleted:	09/21	/2017
	Highlighted In Green		Date this form	n is appr	oved:	10/3/	2017
This Form Prepared by:	Travis Jensen		715-395-3025	i	travis.j	ensen@dot	.wi.gov
	NAME		PHONE			EMAIL	
This Form Approved by:	Amy Adrihan		715-392-7972		amy.a	<u>drihan@dot</u>	<u>.wi.gov</u>
	NAME		PHONE			EMAIL	
Is a discharge of dredged or fill material into wetlands anticipated? NO Form complete; no further information is required (RETURN FORM TO REC). YES 1. Complete remainder of form: - After final wetland impacts are determined, complete yellow portions on both pages of this form and submit to REC for finalization and approval. 2. Include this final APPROVED form with DNR 401 and USACE 404 permit applications 3. After receiving USACE 404 permit and DNR 401 final concurrence, return this final APPROVED form to REC along with copy of USACE 404 permit, DNR 401 final concurrence letter, and D size plan sheet showing wetland impact areas. Wetland Delineation/ Determination completed by: Basic and Advanced Wetland Delineation Course, UW-La Crosse QUALIFICATIONS WETLAND IMPACT / REPLACEMENT							lications. final al
	void and minimize impacts of considered during alternatives and			Type	SUMM Area	Туре	Area
-	event disturbance beyond what is re	•		npacted	Impacted	Mitigated	Mitigated
				AB	-	AB	-
				BOG	-	BOG	-
				DM	-	DM	- 0.1.1
				M	0.14	M	0.14
				RPE	- 0.40	RPE	-
				RPF SM	0.49	RPF SM	0.88
				SS	0.12	SS	0.88
Was professional discretion	No			WS	0.12	WS	
used to determine debit		be discr	etionary	AB(D)	_	TOTAL	1.02
ratio?		ale belov	•	DM(D)	_		1,04
				M(D)	-		
				RPE(D)	-		
				RPF(D)	-		
				SM(D)	-		
				SS(D)			

WS(D)
TOTAL



Wisconsin Department of Transportation

Project Design ID #:

1560-02-01

DOT REC will provide this

Division of Transportation System Development Northwest Region

WETLAND IMPACT TRACKING FORM - PAGE 2 DETAILED TABLE OF WETLAND IMPACTS

Directions to complete Page 2:

- 1. One location may be made up of several different wetland types. List each type of wetland impacted from each location on the project corridor separately in the table below.
- 2. The Environmental Coordinator will enter the appropriate ratio and bank information.
- 3. Use Department of Transportation Wetland Classification System:

http://roadwaystandards.dot.wi.gov/standards/fdm/24-05-010att.pdf#fd24-5a10.2

4. Total areas should be reported to the nearest 0.01 acre. Any impacts less than 0.01 acre should be rounded up to 0.01 acre.

						DOT REC will provide this information.		
	Wetland ID	Impact Location	Lat/Lana	Type	Area	Debit	Type	Area
Point #	wettand ID	(project station)	Lat/Long	Impacted	Impacted	Ratio	Mitigated	Mitigated
		HOSPITAL RD	Lat: 46.026685					
1	Wetland 1	1005+33 - 1006+25	Long: -94.464713	RPF	0.030	1.500	SM	0.045
		HOSPITAL RD	Lat: 46.026491					
2	Wetland 2	1005+33 - 1008+84	Long: -91.463964	RPF	0.410	1.500	SM	0.615
		HOSPITAL RD	Lat: 46.026285					
3	Wetland 3	1008+84 - 1009+24	Long: -91.463672	M	0.070	1.000	M	0.070
		AIRPORT RD	Lat: 46.026604					
4	Wetland 4	2004+68 - 2006+25	Long: -91.460788	RPF	0.020	1.500	SM	0.030
		AIRPORT RD	Lat: 46.026631					
5	Wetland 5	2004+68 - 2005+80	Long: -91.460980	RPF	0.020	1.500	SM	0.030
		AIRPORT RD	Lat: 46.026489					
6	Wetland 6	2006+19 - 2006+64	Long: -91.460902	RPF	0.010	1.500	SM	0.015
		AIRPORT RD	Lat: 46.026509					
7	Wetland 7	2006+46 - 2007+24	Long: -91.461290	SS	0.040	1.200	SM	0.048
		AIRPORT RD	Lat: 46.026846					
8	Wetland 8	2007+42 - 2008+33	Long: -91.461732	SS	0.080	1.200	SM	0.096
		AIRPORT RD	Lat: 46.026892					
9	Wetland 9	2007+43 - 2008+55	Long: -91.461846	M	0.070	1.000	M	0.070
			Lat:					
			Long:					0.000
			Lat:					
			Long:					0.000
			Lat:					
			Long:					0.000
			Lat:					
			Long:					0.000
			Lat:					
			Long:					0.000
			Lat:					
			Long:					0.000
			Lat:					
			Long:					0.000

Is there p	s there potential for onsite mitigation? If unknown, check with the REC.						
YES		Where is it located? (T/R, station, map)					
NO		List bank site to be used. (Determined by REC)	Eitenmiller Wetland Mitigation Bank Site				

Please attach another sheet if the space provided is not adequate for all impacts or to add any additional comments.

Appendix B

Monitoring Forms

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet 1
Investigator(s): Dave Runquist	Section, Township, Range: T14N R9W S14
Landform (hillside, terrace, etc.): Toeslope Local r	relief (concave, convex, none): Concave Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'37.68"N	Long: 91°27'41.81"W Datum: wccs-sawyer
Soil Map Unit Name: 407A Seelyeville and Markey soils	NWI classification: T3/S3K
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	<u> </u>
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing samp	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (E	<u> </u>
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction in Thin Must Surface (C7)	
Iron Deposits (B5) Thin Muck Surface (C7) Thin Muck Surface (C7) Other (Explain in Removal	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8)	ks) Microtopographic Relief (D4) X FAC-Neutral Test (D5)
	TAC-Neutral Test (D5)
Field Observations:	4.75
Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches):	
Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches):	
(includes capillary fringe)	Wetland Hydrology Fresent: Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
2000 No Noordoo 2 2012 (Oli 2011) gaage, memering won, acriai priotes, pre	viola inspections), in available.
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: Wet 1 Dominant Absolute Indicator <u>Tree Stratum</u> (Plot size: 30') % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 3 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: =Total Cover Sapling/Shrub Stratum (Plot size: 15' **OBL** species x 1 = Salix petiolaris **FACW FACW** species 90 x 2 = 180 10 2. Populus tremuloides 10 No FAC FAC species x 3 = 30 0 3 Cornus alba 50 Yes **FACW** FACU species x 4 = 0 4. Spiraea alba 10 No **FACW UPL** species 0 x 5 = 0 5. Column Totals: 200 310 6. Prevalence Index = B/A = 1.55 **Hydrophytic Vegetation Indicators:** 7 95 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% OBL 95 Yes X 3 - Prevalence Index is ≤3.0¹ Carex lacustris 4 - Morphological Adaptations¹ (Provide supporting 5 2. Iris versicolor No OBL data in Remarks or on a separate sheet) 5 **FACW** 3. Rubus hispidus No 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 105 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation No __ Present? Yes X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Wet 1

		to the de				ator or co	onfirm the absence of	findicators.)
Depth	Matrix			x Featur		12	Taratana	Damada
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10yr 2/2	100					Mucky Sand	
5-13	10yr 2/1	88	7.5yr 4/6	2	С	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
			10yr 5/6	3	С	M		Prominent redox concentrations
			10yr 4/6	3	С	PL		Prominent redox concentrations
-			10yr 6/8	2	С	<u>M</u>		Prominent redox concentrations
			10yr 3/2	2	D	M		
13-19	10yr 2/2	100					Mucky Sand	
							·	
4								
	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil Histosol			Polyvalue Belo	w Surfa	ca (S8) (I RR R		or Problematic Hydric Soils ³ : ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		cc (00) (LIXIX IX,		airie Redox (A16) (LRR K, L, R)
	istic (A3)		Thin Dark Surfa	•	(LRR R	, MLRA 1		cky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
Stratifie	d Layers (A5)		Loamy Mucky	Mineral	(F1) (LR I	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
Deplete	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (F2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matri	x (F3)			Piedmon	t Floodplain Soils (F19) (MLRA 149B)
	Mucky Mineral (S1)		X Redox Dark Su					ent Material (F21) (outside MLRA 145)
	Gleyed Matrix (S4)		Depleted Dark					allow Dark Surface (F22)
	Redox (S5)		Redox Depress		3)			podic (TA6) (MLRA 144A, 145, 149B)
	Matrix (S6)		Marl (F10) (LR		04) (84) [24.45\	Other (E	xplain in Remarks)
Dark Su	ırface (S7)		Red Parent Ma	iteriai (F	21) (IVILI	KA 145)		
³ Indicators of	of hydrophytic vegetat	tion and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	Layer (if observed):							
Type:								
Depth (i	nches):						Hydric Soil Preser	it? Yes <u>X</u> No
Remarks:	antin unidend from N		Land Nawhaast Day			-4 \ / - == ! - =	o O O to include the ND	CC Field le disease et landris Ceile
Version 8.0,		ortncentra	ıl and Northeast Reç	gionai Si	uppiemei	nt versior	1 2.0 to include the NR	CS Field Indicators of Hydric Soils,
,								

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/
Applicant/Owner: WisDOT	State: WI Sampling Point: U
Investigator(s): Dave Runquist	Section, Township, Range: T14N R9W S14
Landform (hillside, terrace, etc.): Shoulder	Local relief (concave, convex, none): Convex Slope %:
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'3	
Soil Map Unit Name: 407A Seelyville & Markey Soils	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignification	
Are Vegetation, Soil, or Hydrologynaturall	
	ing sampling point locations, transects, important features, e
Hydrophytic Vegetation Present? Yes No	X Is the Sampled Area
Hydric Soil Present? Yes No	<u> </u>
Wetland Hydrology Present? Yes No	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required
Primary Indicators (minimum of one is required; check all that ap	oply) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained	d Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna	a (B13)Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits	
 -	fide Odor (C1) Crayfish Burrows (C8)
 -	ospheres on Living Roots (C3)Saturation Visible on Aerial Imagery (C9)
<u> </u>	Reduced Iron (C4) Stunted or Stressed Plants (D1)
<u> </u>	deduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)Thin Muck Su	
Inundation Visible on Aerial Imagery (B7)Other (Explain	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
	h (inches):
	h (inches):
	h (inches): Wetland Hydrology Present? Yes No _
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial p	photos, previous inspections), if available:
Damaria	
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: Up 1 Dominant Indicator Absolute <u>Tree Stratum</u> (Plot size:) Status **Dominance Test worksheet:** % Cover Species? **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 0 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: ____) 0 x 1 = _ OBL species **FACW** species 0 x 2 = 0 FAC species x 3 = 0 3. FACU species 50 x 4 = 200 4. UPL species 100 x 5 = 500 Column Totals: 150 700 6. Prevalence Index = B/A = 4.67 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') 2 - Dominance Test is >50% UPL Yes 3 - Prevalence Index is ≤3.01 Danthonia spicata 4 - Morphological Adaptations¹ (Provide supporting 20 UPL 2. Bromus inermis No data in Remarks or on a separate sheet) 40 3. Festuca rubra Yes FACU 4. Elymus repens 10 No **FACU** Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 150 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Yes Present? No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Up 1

(inches) Color (moist)	%	Color (moist)	x Featur <u>%</u>	Type ¹	Loc ²	Texture		Rema	arks	
			<u> </u>	<u> </u>						
			<u> </u>							
			<u> </u>							
¹ Type: C=Concentration, D=Depletion	on, RM=F	Reduced Matrix, M	1S=Mas	ked Sand	l Grains.	² Location: F				
Hydric Soil Indicators:		Polyvaluo Rolo	w Surfa	co (S9) (I	DD D	Indicators f		•		
Histosol (A1) Histic Epipedon (A2)	_	Polyvalue Belo MLRA 149B		ce (36) (I	-KK K,) (LRR K, L , dox (A16) (L		
Black Histic (A3)		Thin Dark Surfa		(I RR R	MI RA			at or Peat (S		
Hydrogen Sulfide (A4)	_	High Chroma S					-	Surface (S		
Stratified Layers (A5)	_	Loamy Mucky			-			ce (S9) (LRF		L)
Depleted Below Dark Surface (A	11)				Χ IX, L)			Masses (F1		' I D\
		Loamy Gleyed		Γ <i>2)</i>			-			
Thick Dark Surface (A12)	_	Depleted Matri	. ,	·c\				olain Soils (F		
Sandy Mucky Mineral (S1)	_	Redox Dark Su						erial (F21) (c		-KA 145)
Sandy Gleyed Matrix (S4)	_	Depleted Dark						rk Surface (4.40D\
Sandy Redox (S5)	_	Redox Depress	•	0)				A6) (MLRA	144A, 145	, 1496)
Stripped Matrix (S6) Dark Surface (S7)	_	Marl (F10) (LR Red Parent Ma		21) (MLF	RA 145)	Other (f	=хріаіп iп	Remarks)		
³ Indicators of hydrophytic vegetation Restrictive Layer (if observed):	and wet	and hydrology mu	ıst be pr	esent, ur	less dist	curbed or problematic.				
Type:										
Depth (inches):						Hydric Soil Prese	ent?	Yes	No_	X
Remarks: This data sheet is revised from North Version 8.0, 2016.	ncentral a	and Northeast Reg	gional S	upplemer	nt Versio	n 2.0 to include the NI	RCS Field	d Indicators	of Hydric S	Soils,
Unable to dig due to refusal at surface	ce									

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

Project/Site: _1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S14
Landform (hillside, terrace, etc.): Toeslope Local r	relief (concave, convex, none): Concave Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'36.42"N	Long: 91°27'41.85"W Datum: wccs-sawyer
Soil Map Unit Name: 407A Seelyeville and Markey Soils	NWI classification: T3/S3K
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation , Soil , or Hydrology naturally problemat	
SUMMARY OF FINDINGS – Attach site map showing samp	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B	
X High Water Table (A2) Aquatic Fauna (B13) And Denseits (B15)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15) Hydrogen Sulfide Oder (C	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C Sediment Deposits (B2) Oxidized Rhizospheres o	
Drift Deposits (B3) — Oxidized Kriizospheres of Presence of Reduced Iro	
Algal Mat or Crust (B4) Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	10
Water Table Present? Yes X No Depth (inches):	0
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator				
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test	worksheet:		
				Number of Domina That Are OBL, FA	ant Species	2	(A)
				That Allo OBE, 174	011, 011710.		_(',')
	-			Total Number of D			(D)
				Species Across Al	i Strata:	2	_ (B)
				Percent of Domina			
				That Are OBL, FA	CW, or FAC:	100.0%	(A/
				Prevalence Index	worksheet:		
		=Total Cover		Total % Cove	er of:	Multiply by	
apling/Shrub Stratum (Plot size:15')			OBL species	90 x	1 = 90	
Salix petiolaris	90	Yes	FACW	FACW species	100 x	2 = 200	
Alnus incana	10	No	FACW			3 = 0	
				FACU species	0 x	4 = 0	
	_			UPL species		5 = 0	
							—,
				Column Totals:	190 (A	· —	(
					Index = B/A =		
				Hydrophytic Vege	etation Indicat	ors:	
	100	=Total Cover		1 - Rapid Test	for Hydrophyti	c Vegetation	
erb Stratum (Plot size: 5')				X 2 - Dominance	e Test is >50%		
Carex lacustris	75	Yes	OBL	X 3 - Prevalence	e Index is ≤3.0 ¹		
Carex stricta	15	No	OBL	4 - Morpholog	ical Adaptation	s¹ (Provide sı	ıpport
					narks or on a se		
				Broblemetic H	ydrophytic Veg	otation ¹ (Evn	(منما
				FIODIEIIIalic II	yuropriyuc veg	jetation (Exp	iaiii)
				¹ Indicators of hydr			y mus
				be present, unless	disturbed or p	roblematic.	
				Definitions of Ve	getation Strata	a:	
				Tree – Woody plan	nts 3 in. (7.6 cn	n) or more in	
				diameter at breast			heigh
)				Sapling/shrub - \	Noody planta k	ana than 2 in	DBU
				and greater than o			ווטט
<u></u>							
· -	90	=Total Cover		Herb – All herbace of size, and woody			
Control Control	, 90	= Total Cover		or size, and woody	pianto less the	an 3.20 it tail.	
oody Vine Stratum (Plot size: 30')			Woody vines – Al	l woody vines (greater than 3	3.28 ft
				height.			
				Hydrophytic			
				Vegetation			
					Yes X	No	
		=Total Cover					

SOIL Sampling Point Wet

Depth	Matrix			Featur		. 2	.	5
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10yr 2/2	100					Mucky Sand	
	_							
	-							
1T C. C	Name and the state of the state	lation DM	Deduced Metric N		lead Care	Cnaina	21	DI Dans Lining M Matrix
	Concentration, D=Dep	letion, Riv	I=Reduced Matrix, IV	i5=ivias	ked Sand	Grains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histoso	Indicators:		Polyvalue Belo	w Surfa	co (S9) (I	DD D		luck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		ce (36) (I	-NN N,		Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Thin Dark Surfa		(I RR R	MI RA 1		lucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		High Chroma S					ue Below Surface (S8) (LRR K, L)
	ed Layers (A5)					-		ark Surface (S9) (LRR K, L)
		e (A11)	Loamy Mucky Mineral (F1) (LRR K, L) Loamy Gleyed Matrix (F2)					anganese Masses (F12) (LRR K, L, R)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)			Depleted Matrix		/			ont Floodplain Soils (F19) (MLRA 149B)
X Sandy Mucky Mineral (S1)			Redox Dark Su		·6)			rent Material (F21) (outside MLRA 145)
Sandy Gleyed Matrix (S4)			Depleted Dark	Surface	· (F7)			nallow Dark Surface (F22)
	Redox (S5)		Redox Depress					Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6)			Marl (F10) (LR	R K, L)			Other (Explain in Remarks)
Dark Su	urface (S7)		Red Parent Ma	terial (F	21) (MLF	RA 145)	<u> </u>	
³ Indicators of	of hydrophytic vegetat	tion and w	etland hydrology mu	ıst be pr	esent, ur	ıless dist	urbed or problematic.	
Restrictive	Layer (if observed):							
Type:								
Depth (inches):						Hydric Soil Prese	ent? Yes X No
Remarks:							<u> </u>	
	neet is revised from N	orthcentra	al and Northeast Reg	jional S	upplemer	nt Version	n 2.0 to include the N	RCS Field Indicators of Hydric Soils,
Version 8.0	, 2016.							•
5 ". (
>5" too wet	obtained from soil pro	ohe linah	ole to get full soil pro	file with	a soil nit			
Oon oampio	obtained from 50ii pro	obc. Ona	no to got ruii soii pro	ino with	a son pit			

WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Up 2
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S14
Landform (hillside, terrace, etc.): Shoulder Local	relief (concave, convex, none): Convex Slope %: 0-3
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'35.95"N	Long: 91°27'40.18"W Datum: wccs-sawyer
Soil Map Unit Name: 771A Lenroot Loamy Sand	NWI classification: T3S3k
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturl	
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No_X_
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	<u> </u>
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) — Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>
Algal Mat or Crust (B4) Recent Iron Reduction ir	• • • • • • • • • • • • • • • • • • • •
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants.

	nts.			Sampling Point: Up 2		
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Populus tremuloides	25	Yes	FAC	Number of Dominant Species		
2. Betula papyrifera	60	Yes	FACU	That Are OBL, FACW, or FAC:3(A)		
3. Pinus banksiana	10	No	FACU	Total Number of Dominant		
1. Picea glauca	5	No	FACU	Species Across All Strata: 6 (B)		
5. Prunus virginiana	5	No	FACU	Percent of Dominant Species		
6. Acer rubrum	10	No	FAC	That Are OBL, FACW, or FAC: 50.0% (A/B)		
7.				Prevalence Index worksheet:		
	115	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0		
. Betula papyrifera	20	Yes	FACU	FACW species 45 x 2 = 90		
2. Populus tremuloides	20	Yes	FAC	FAC species 60 x 3 = 180		
3. Prunus virginiana	5	No	FACU	FACU species 199 x 4 = 796		
1. Alnus incana	5	No	FACW	UPL species 30 x 5 = 150		
5. Acer rubrum	5	No	FAC	Column Totals: 334 (A) 1216 (B)		
5. Pinus strobus	2	No	FACU	Prevalence Index = B/A = 3.64		
7.				Hydrophytic Vegetation Indicators:		
	 57	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%		
1. Pteridium aquilinum	75	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹		
2. Rubus hispidus	20	Yes	FACW	4 - Morphological Adaptations ¹ (Provide supportin		
3. Hieracium spp.	15	No	UPL	data in Remarks or on a separate sheet)		
Diervilla lonicera	15	No	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)		
	10	No		Floblematic Hydrophytic Vegetation (Explain)		
			FACU	¹ Indicators of hydric soil and wetland hydrology must		
6. Fragaria virginiana	10	No No	FACU	be present, unless disturbed or problematic.		
7. Equisetum sylvaticum	10	No No	FACW	Definitions of Vegetation Strata:		
3. Galium triflorum	5	No No	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in		
9. Maianthemum canadense	2	No	FACU	diameter at breast height (DBH), regardless of height.		
10.				Sapling/shrub – Woody plants less than 3 in. DBH		
11				and greater than or equal to 3.28 ft (1 m) tall.		
12				Herb – All herbaceous (non-woody) plants, regardless		
	162	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Noody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in		
1				height.		
2				Hydrophytic		
3.				Vegetation		
)				Present? Yes No X		
l						

SOIL Sampling Point Up 2

Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
	_				<u> </u>	· ·	_		
	_								
 -									
	_		_						
		— -							
¹ Type: C=Conce	entration, D=Deple	tion, RM=	Reduced Matrix, N	MS=Masl	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.	
Hydric Soil India	cators:						Indicators f	or Problematic Hydric Soils ³ :	
Histosol (A1))		Polyvalue Belo	ow Surfac	ce (S8) (I	LRR R,	2 cm Mu	uck (A10) (LRR K, L, MLRA 14 9	B)
Histic Epiped		_	MLRA 149B					rairie Redox (A16) (LRR K, L, R	
Black Histic			Thin Dark Surf	face (S9)	(LRR R	, MLRA 1		ucky Peat or Peat (S3) (LRR K,	
Hydrogen Su			High Chroma					ue Below Surface (S8) (LRR K, I	
Stratified Lay		_	Loamy Mucky			-		rk Surface (S9) (LRR K, L)	-,
	low Dark Surface	(Δ11)	Loamy Gleyed			it it, L)		nganese Masses (F12) (LRR K ,	I R)
		(ATT) <u> </u>			12)			-	
	Surface (A12)	_	Depleted Matri	, ,	·c/			nt Floodplain Soils (F19) (MLRA	
	y Mineral (S1)	_	Redox Dark S					rent Material (F21) (outside ML	KA 145
	ed Matrix (S4)	_	Depleted Dark					allow Dark Surface (F22)	
Sandy Redox	, ,	_	Redox Depres		3)			podic (TA6) (MLRA 144A, 145 ,	149B)
Stripped Mat	, ,	_	Marl (F10) (LR				Other (E	Explain in Remarks)	
Dark Surface	e (S7)	_	Red Parent Ma	aterial (F	21) (MLF	RA 145)			
_									
³ Indicators of hyd	drophytic vegetation	on and wet	land hydrology m	ust be pr	esent, ur	nless dist	urbed or problematic.		
Restrictive Laye	er (if observed):								
Type:									
Depth (inche	es):						Hydric Soil Prese	nt? Yes No	Χ
							.,		
Remarks:	- man da and factor Nice	oth a control	and Marthagar Da			-1.\/	- O O to Sooks do the NE	000 Field Indicators of Hodels 0	. 9 .
Version 8.0, 2010		rincentral a	and Northeast Re	gionai Si	uppiemei	nt versior	n 2.0 to include the INF	RCS Field Indicators of Hydric S	oiis,
Version 6.0, 20 N	0.								
Unable to dig due	e to refusal at surf	ace							

Project/Site: _1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet 3
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S14
Landform (hillside, terrace, etc.): Toeslope Local I	relief (concave, convex, none): Concave Slope %: 0-3
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'36.20"N	Long: 91°27'38.98"W Datum: wccs-sawyer
Soil Map Unit Name: 771A Lenroot Loamy Sand	NWI classification: T3K
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturb	· · · · · · _ ·
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (E	• • • • • • • • • • • • • • • • • • • •
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	ks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	9.5
Saturation Present? Yes X No Depth (inches):	2.5 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Domorko:	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
Populus tremuloides	60	Yes	FAC				
Acer rubrum	10	No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)			
3.				Total Number of Demisers			
4.				Total Number of Dominant Species Across All Strata: 5 (B)			
5.				Percent of Dominant Species			
6.				That Are OBL, FACW, or FAC: 80.0% (A/B)			
7				Prevalence Index worksheet:			
	70	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size:)				OBL species15 x 1 =15			
1. Acer negundo	5	No	FAC	FACW species 115 x 2 = 230			
2. Populus tremuloides	50	Yes	FAC	FAC species145 x 3 =435			
3. Spiraea alba	20	No	FACW	FACU species 24 x 4 = 96			
4. Alnus incana	40	Yes	FACW	UPL species80 x 5 =400			
5. Corylus cornuta	2	No	FACU	Column Totals: 379 (A) 1176 (B)			
6.				Prevalence Index = B/A = 3.10			
7.				Hydrophytic Vegetation Indicators:			
	117	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%			
Calamagrostis canadensis	15	No	OBL	3 - Prevalence Index is ≤3.0 ¹			
Carex tenera	20	No	FAC	4 - Morphological Adaptations ¹ (Provide supporting			
Vaccinium myrtilloides	10	No	FACW	data in Remarks or on a separate sheet)			
4. Rubus hispidus	15	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
5. Equisetum sylvaticum	30	Yes	FACW				
Waldsteinia fragarioides	80	Yes	UPL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
7. Sonchus oleraceus	2	No	FACU	Definitions of Vegetation Strata:			
8. Thalictrum dioicum	20	No	FACU	_			
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
10.		<u> </u>					
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.							
	192	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30')	102						
1.				Woody vines – All woody vines greater than 3.28 ft in height.			
2				neight.			
2				Hydrophytic			
3.		· ——		Vegetation			
4		T-1-1 O		Present? Yes X No			
		=Total Cover					
Remarks: (Include photo numbers here or on a separ	ate sheet.)						

Sampling Point:

Wet 3

SOIL Sampling Point Wet 3

	-	o the dep				ator or co	onfirm the absence of	f indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks	
0-8	10yr 2/2	100	Oolor (moist)		Турс		Sandy	Nomano	
			Ex. (# E/Q					Draminant raday concentrations	
8-16	10yr 2/2	87	5yr 5/8	7	<u>C</u>	<u>M</u>	Sandy	Prominent redox concentrations	
			5yr 3/3	3	<u>C</u>	<u>M</u>		Distinct redox concentrations	
			10yr 4/6	3	<u>C</u>	<u>M</u>		Prominent redox concentrations	
¹Type: C=Co	oncentration, D=Deple	etion RM	=Reduced Matrix N	/S=Mas	ked San		² Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I		otion, rtivi	-reduced Matrix, I	no-mas	itoa oant	a Oramo.		or Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belo	w Surfa	ce (S8) (LRR R,		ick (A10) (LRR K, L, MLRA 149B)	
Histic Ep	pipedon (A2)	•	MLRA 149B	5)			Coast Pr	rairie Redox (A16) (LRR K, L, R)	
Black His	stic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 1				5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)	
Hydrogei	n Sulfide (A4)		High Chroma Sands (S11) (LRR K, L)				Polyvalue Below Surface (S8) (LRR K, L)		
Stratified	Layers (A5)		Loamy Mucky Mineral (F1) (LRR K, L)				Thin Dark Surface (S9) (LRR K, L)		
Depleted	l Below Dark Surface	(A11)	Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	rk Surface (A12)		Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	6)		Red Pare	ent Material (F21) (outside MLRA 145)	
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Very Sha	allow Dark Surface (F22)	
Sandy R	edox (S5)		Redox Depres	sions (F	3)		Mesic Sp	oodic (TA6) (MLRA 144A, 145, 149B)	
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)	
Dark Sur	face (S7)	•	Red Parent Ma	aterial (F	21) (ML i	RA 145)			
³ Indicators of	hvdrophytic vegetati	on and w	etland hydrology mi	ust be pr	esent. ui	nless dist	urbed or problematic.		
	_ayer (if observed):	o a a		шот во р.			and di prodicination		
Type:									
Depth (in	nches):						Hydric Soil Preser	nt? Yes No X	
		orthcentra	I and Northeast Re	gional S	uppleme	nt Versio	n 2.0 to include the NR	CS Field Indicators of Hydric Soils,	
Version 8.0, 2	2016.								
>16" too wet									

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017				
Applicant/Owner: WisDOT	State: WI Sampling Point: Up 3				
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S14				
Landform (hillside, terrace, etc.): Shoulder Loca	al relief (concave, convex, none): Convex Slope %: 0-3				
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'35.71"N	Long: 91°27'39.51"W Datum: wccs-sawyer				
Soil Map Unit Name: 771A Lenroot Loam Sand	NWI classification: T3K				
Are climatic / hydrologic conditions on the site typical for this time of year?					
Are Vegetation, Soil, or Hydrologysignificantly distu					
Are Vegetation, Soil, or Hydrologynaturally problem					
	mpling point locations, transects, important features, etc.				
	1				
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No X No X	Is the Sampled Area within a Wetland? Yes No X				
Wetland Hydrology Present? Yes No X	within a Wetland? Yes No X If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)	ii yes, optional wetland one ib.				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)				
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor					
Sediment Deposits (B2) Oxidized Rhizospheres					
Drift Deposits (B3) Presence of Reduced	· / · · · · · · · · · · · · · · · · · ·				
Algal Mat or Crust (B4)Recent Iron Reduction					
Iron Deposits (B5)Thin Muck Surface (C7	· · · · · · · · · · · · · · · · · · ·				
	mr (Explain in Remarks) Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No X Depth (inches	s):				
Water Table Present? Yes No X Depth (inches					
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes No _X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:				
Percentus					
Remarks:					

VEGETATION – Use scientific names of plants. Sampling Point: Up 3 Dominant Indicator Absolute <u>Tree Stratum</u> (Plot size: 30') Status **Dominance Test worksheet:** % Cover Species? **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 0 (A) 3. **Total Number of Dominant** (B) 4. Species Across All Strata: 2 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: 0 x 1 = _ Sapling/Shrub Stratum (Plot size: 15') OBL species **FACW** species 20 x 2 = 10 FAC species x 3 = 30 3. **FACU** species 145 x 4 = 580 4. UPL species 5 x 5 = Column Totals: 180 (A) 675 Prevalence Index = B/A = 3.75 6. **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') 2 - Dominance Test is >50% Yes **FACU** 3 - Prevalence Index is ≤3.01 Poa pratensis 4 - Morphological Adaptations¹ (Provide supporting 20 2. Phalaris arundinacea No **FACW** data in Remarks or on a separate sheet) 3. Rumex acetosella 25 Yes FACU 4. Lotus corniculatus 15 No **FACU** Problematic Hydrophytic Vegetation¹ (Explain) 10 5. Barbarea vulgaris No FAC ¹Indicators of hydric soil and wetland hydrology must 5 UPL be present, unless disturbed or problematic. 6. Leucanthemum vulgare No 7. Plantago major 5 No **FACU Definitions of Vegetation Strata:** 8. Matricaria discoidea 20 No **FACU** Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 180 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Yes Present? No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Up 3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Loc² Texture Type¹ Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) (outside MLRA 145) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Very Shallow Dark Surface (F22) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Red Parent Material (F21) (MLRA 145)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):			
Туре:			
Depth (inches):	Hydric Soil Present?	Yes	No X

Remarks:

This data sheet is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 8.0, 2016.

Unable to dig due to refusal at surface

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017					
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet 4					
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S23					
Landform (hillside, terrace, etc.): Footslope Local r	relief (concave, convex, none): Convex Slope %: 0-3					
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'35.01"N	Long: 91°27'43.40"W Datum: wccs-sawyer					
Soil Map Unit Name: 771A Lenroot Loamy Sand	NWI classification: T3/S3K					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturb	· · · · · · · · · · ·					
Are Vegetation, Soil, or Hydrologynaturally problema						
SUMMARY OF FINDINGS – Attach site map showing sam						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply) X Surface Water (A1) Water-Stained Leaves (E	Surface Soil Cracks (B6) Drainage Patterns (B10)					
X High Water Table (A2) X High Water Table (B13) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
X Saturation (A3) Marl Deposits (B15)						
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (C						
	ed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4) Recent Iron Reduction in	Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes X No Depth (inches):	2					
Water Table Present? Yes X No Depth (inches):	8					
Saturation Present? Yes X No Depth (inches):	5 Wetland Hydrology Present? Yes X No					
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:					
Remarks:						

VEGETATION – Use scientific names of plants. Sampling Point: Wet 4 Dominant Absolute Indicator <u>Tree Stratum</u> (Plot size: 30') **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 3 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: Sapling/Shrub Stratum (Plot size: 15' **OBL** species x 1 = Spiraea alba **FACW FACW** species 135 x 2 = 270 25 Alnus incana 10 Yes **FACW** FAC species x 3 = 75 0 3. **FACU** species x 4 = 0 4. **UPL** species 0 x 5 = 0 5. Column Totals: 200 385 6. Prevalence Index = B/A = 1.93 **Hydrophytic Vegetation Indicators:** 7 35 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phalaris arundinacea 90 Yes **FACW** X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting 10 2. Onoclea sensibilis No **FACW** data in Remarks or on a separate sheet) 3. Rubus idaeus 25 No FAC 4. Carex lacustris 25 No OBL Problematic Hydrophytic Vegetation¹ (Explain) 15 5. Calamagrostis canadensis No OBL ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 165 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation No __ Present? Yes X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Wet 4

	ription: (Describe t	to the de	•			ator or co	onfirm the absence of	indicators.)	
Depth	Matrix			k Featur		1 2	Tandona	Damada	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-5	10yr 2/2	100					Mucky Sand		
5-9.5	10yr 2/2	100					Sandy		
9.5-19	10yr 4/2	70	7.5yr 5/6	25	<u>C</u>	M	Sandy	Prominent redox concentrations	
			10yr 3/6	5	<u>C</u>	M		Prominent redox concentrations	
								_	
							_		
								_	
¹ Type: C=Co	oncentration, D=Depl	etion. RM	/=Reduced Matrix. M	IS=Masl	ked Sand	d Grains	² l ocation: PI	L=Pore Lining, M=Matrix.	
Hydric Soil		011011, 1111	i-reduced mann, it	io-iviao.	tou ouri	a Graino.		or Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belo	w Surfa	ce (S8) (LRR R,		ck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)					airie Redox (A16) (LRR K, L, R)	
Black Hi	stic (A3)		Thin Dark Surfa	Thin Dark Surface (S9) (LRR R, MLRA 14				cky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		High Chroma S			-	Polyvalue Below Surface (S8) (LRR K, L)		
	Layers (A5)		Loamy Mucky I			R K, L)	Thin Dark Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)		
	ark Surface (A12)		Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1)		Redox Dark Surface (F6)				Red Parent Material (F21) (outside MLRA 145) Very Shallow Dark Surface (F22)		
	edox (S5)		Depleted Dark Surface (F7) Redox Depressions (F8)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
	Matrix (S6)		Marl (F10) (LRR K, L)				Other (Explain in Remarks)		
	face (S7)		Red Parent Material (F21) (MLRA 145)					,	
	, ,			`	, ,	,			
³ Indicators of	f hydrophytic vegetati	ion and w	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.		
Restrictive I	_ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Presen	t? Yes X No	
Remarks:									
		orthcentra	al and Northeast Reg	gional Si	uppleme	nt Versior	2.0 to include the NR	CS Field Indicators of Hydric Soils,	
Version 8.0,	2016.								
>19" too wet									

Applicant/Owner: WisDOT State: WI Sampling Point: Up 4 Investigator(s): Dave Runquist Section, Township, Range: T41N R9W S23
Investigator(s): Dave Runquist Section, Township, Range: T41N R9W S23
Landform (hillside, terrace, etc.): Summit Local relief (concave, convex, none): None Slope %: 0-3
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'35.03"N Long: 91°27'43.50"W Datum: wccs-sawyr
Soil Map Unit Name: 771A Lenroot Loamy Sand NWI classification: T3/S3K
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Is the Sampled Area
Hydric Soil Present? Yes No X within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13) Aquatic Fauna (B16)
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Trescribe of Readout Hori (64)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Thin Muck Surface (C7) Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Thin Muck Surface (C7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Thin Muck Surface (C7) Other (Explain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
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Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
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VEGETATION – Use scientific names of plants.

Sampling Point: Up 4

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	15	Yes	FAC	
2. Pinus banksiana	10	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3. Populus tremuloides	20	Yes	FAC	
4		100	1710	Total Number of Dominant Species Across All Strata: 6 (B)
5				
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
<i>1.</i>	45	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Alnus incana	2	No	FACW	FACW species 29 x 2 = 58
2. Diervilla lonicera	40	Yes	UPL	FAC species 45 x 3 = 135
3.				FACU species 137 x 4 = 548
4.				UPL species 55 x 5 = 275
5.				Column Totals: 266 (A) 1016 (B)
6.				Prevalence Index = B/A = 3.82
7.				Hydrophytic Vegetation Indicators:
	42	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		2 - Dominance Test is >50%
1. Poa pratensis	80	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2. Pteridium aquilinum	40	Yes	FACU	4 - Morphological Adaptations ¹ (Provide supporting
3. Rubus hispidus	25	No	FACW	data in Remarks or on a separate sheet)
4. Lotus corniculatus	5	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Comptonia peregrina	15	No	UPL	¹ Indicators of hydric soil and wetland hydrology must
6. Fragaria virginiana	2	No	FACU	be present, unless disturbed or problematic.
7. Equisetum arvense	10	No	FAC	Definitions of Vegetation Strata:
8. Onoclea sensibilis	2	No	FACW	Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	179	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		•		Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)	•		
, , ,	,			

SOIL Sampling Point Up 4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Loc² Texture Type¹ Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) (outside MLRA 145) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Very Shallow Dark Surface (F22) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Red Parent Material (F21) (MLRA 145) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No

Remarks:

This data sheet is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 8.0, 2016.

Unable to dig due to refusal at surface

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet 5
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S23
Landform (hillside, terrace, etc.): Toeslope Local	relief (concave, convex, none): Concave Slope %: 0-3
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'35.72"	Long: 91°27'44.28" Datum: wccs-sawyer
Soil Map Unit Name: 771A Lenroot Loamy Sand	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B	
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Oxidized Rhizospheres of Parkurant land	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	A I AC-Neutral Test (D3)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
Describe Recorded Data (Stream gauge, monitoring well, aerial priotos, pre	rious inspections), ii avaliable.
Remarks:	
1	

VEGETATION – Use scientific names of plants. Sampling Point: Wet 5 Dominant Indicator Absolute <u>Tree Stratum</u> (Plot size: 30') Status **Dominance Test worksheet:** % Cover Species? **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 3 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Multiply by: =Total Cover Total % Cover of: 55 x 1 = Sapling/Shrub Stratum (Plot size: 15' OBL species **FACW** species 50 x 2 = 100 0 FAC species x 3 = 0 0 3. **FACU** species x 4 = 4. UPL species 0 x 5 = 0 Column Totals: 105 155 6. Prevalence Index = B/A = 1.48 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: X 2 - Dominance Test is >50% Phalaris arundinacea 50 Yes **FACW** X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting 25 2. Yes OBL Carex lacustris data in Remarks or on a separate sheet) 30 3. Calamagrostis canadensis Yes OBL 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 105 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation No ___ Present? Yes X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Wet 5

Depth	cription: (Describe to Matrix			x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2	10yr 2/2	100					Mucky Sand		
2-26	10yr 2/1	95	10yr 5/1	5	D	М	Loamy/Clayey		
						 -			
								_	
	·								
¹ Type: C=C	oncentration, D=Depl	letion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	² Location: PL=Po	re Lining, M=Matrix.	
Hydric Soil			·					oblematic Hydric Soils ³ :	
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck (A	10) (LRR K, L, MLRA 149B)	
Histic E	oipedon (A2)		MLRA 149B)			Coast Prairie	Redox (A16) (LRR K, L, R)	
	stic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 1 High Chroma Sands (S11) (LRR K, L)					eat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)					-		ow Surface (S8) (LRR K, L)	
	d Layers (A5)	. (Δ11)	Loamy Mucky			R K, L)		face (S9) (LRR K, L)	
	d Below Dark Surface ark Surface (A12)	e (A11)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)				Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)		
	Mucky Mineral (S1)		Redox Dark Surface (F6)					aterial (F21) (outside MLRA 145)	
	Gleyed Matrix (S4)		Depleted Dark					Dark Surface (F22)	
	Redox (S5)		Redox Depress					(TA6) (MLRA 144A, 145, 149B)	
Stripped	l Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explain	in Remarks)	
Dark Su	rface (S7)		Red Parent Ma	aterial (F	21) (MLF	RA 145)			
31 11 1									
	f hydrophytic vegetat Layer (if observed):		etiand hydrology mu	ust be pr	esent, ur	niess disti	irbed or problematic.		
Type:	Layer (ir observed):								
	nohoo).						Hudria Cail Brasant?	Van V Na	
Depth (i	nches).						Hydric Soil Present?	Yes <u>X</u> No	
Remarks:	aat is ravisad from N	orthcentra	Land Northeast Reg	rional Si	ınnlamaı	nt Version	2.0 to include the NPCS F	ield Indicators of Hydric Soils	
Remarks:		orthcentra	ા and Northeast Re્	gional Sı	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	ıl and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	ıl and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	ıl and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	ıl and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	ા and Northeast Re્	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	ા and Northeast Re્	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	al and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	al and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	al and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	
Remarks: This data sh		orthcentra	al and Northeast Re	gional Si	upplemei	nt Version	2.0 to include the NRCS F	ield Indicators of Hydric Soils,	

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Up 5
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S23
Landform (hillside, terrace, etc.): Shoulder	Local relief (concave, convex, none): Convex Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'35.8	
Soil Map Unit Name: 407A Seelyeville and markey soils	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantl	
Are Vegetation, Soil, or Hydrologynaturally p	
<u> </u>	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydric Soil Present? Yes No X	
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	port.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	y) Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Lo	eaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (E	
Saturation (A3) Marl Deposits (B	
Water Marks (B1) Hydrogen Sulfide	
l 	pheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)Presence of Red	
	uction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface Other (Fundamental Imagers (P7)) Other (Fundamental Imagers (P7))	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Sparsely Vegetated Concave Surface (B8)	Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
	PAC-Neutral Test (D5)
Field Observations:	tankan).
Surface Water Present? Yes No X Depth (i Water Table Present? Yes No X Depth (i	
Water Table Present? Yes No X Depth (in Saturation Present? Yes No X Depth (in Saturation Present?	
(includes capillary fringe)	inches): Wetland Hydrology Present? Yes No _X
Describe Recorded Data (stream gauge, monitoring well, aerial pho	
33	
Remarks:	

VEGETATION – Use scientific names of pla					Sampling	g Point:	Up 5	5
Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	workshee	::		
1				Number of Domin				
2				That Are OBL, FA	CW, or FA	C:	0	(A)
3				Total Number of [
4.				Species Across A	ll Strata:		1	_(B)
5. 6.				Percent of Dominion			0.0%	(A/B)
7.				Prevalence Index				<u>-` ′</u>
		=Total Cover		Total % Cov	er of:	М	ultiply by:	
Sapling/Shrub Stratum (Plot size: 15')				OBL species	0	x 1 =	0	
1.				FACW species	0	x 2 =	0	
2.				FAC species	0	x 3 =	0	
3.				FACU species	50	x 4 =	200	
4.				UPL species	5	x 5 =	25	
5.				Column Totals:	55	(A)	225	— (B)
6.				Prevalence	Index = B	/A =	4.09	
7.				Hydrophytic Veg	etation Ind	icators:		
		=Total Cover		1 - Rapid Tes	t for Hydror	hytic Ve	getation	
Herb Stratum (Plot size: 5')				2 - Dominanc	e Test is >5	50%		
1. Poa pratensis	45	Yes	FACU	3 - Prevalenc	e Index is ≤	3.0 ¹		
2. Hieracium aurantiacum	5	No	UPL	4 - Morpholog	jical Adapta	ntions ¹ (P	rovide su	pporting
3. Cirsium arvense	5	No	FACU	data in Rer	marks or or	a separ	ate sheet))
4.				Problematic H	Hydrophytic	Vegetati	on ¹ (Expl	ain)
5.				¹ Indicators of hyd	ric soil and	wotland	ovdrology	muet
6.				be present, unless				must
7.				Definitions of Ve	getation S	trata:		
8				Tree – Woody pla				h a taiba
9.				diameter at breas	t neight (DE	sn), rega	raiess or	neignt.
10 11.				Sapling/shrub – and greater than of				DBH
12.				Herb – All herbac	ooue (non	woody) n	lanta roa	ordlooo
	55	=Total Cover		of size, and wood				aruless
Woody Vine Stratum (Plot size: 30')				Woody vines – A	II woody vir	nes great	er than 3.	28 ft in
1				height.				
2				Hydrophytic				
3				Vegetation				
A				Present?	Yes	No	X	
4								

SOIL Sampling Point Up 5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Loc² Texture Type¹ Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) (outside MLRA 145) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Very Shallow Dark Surface (F22) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Red Parent Material (F21) (MLRA 145) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No

Remarks:

This data sheet is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 8.0, 2016.

Unable to dig due to refusal at surface

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet 6
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S14
Landform (hillside, terrace, etc.): Toeslope Loc	cal relief (concave, convex, none): Concave Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'37.08"N	· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: 407A Seelyeville and Markey soil	NWI classification: T5/S3K
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrologysignificantly dis	
Are Vegetation, Soil, or Hydrologynaturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.
Lhudranhutia Variation Drasant2	In the Complet Area
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
	<u> </u>
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odd	or (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphere	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)Presence of Reduced	d Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction	n in Tilled Soils (C6) X Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rem	marks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inche	98):
Water Table Present? Yes X No Depth (inche	es): 5
Saturation Present? Yes X No Depth (inche	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: Wet 6 Dominant Indicator Absolute <u>Tree Stratum</u> (Plot size: 30') Status **Dominance Test worksheet:** % Cover Species? **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 2 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 2 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: 100 x 1 = Sapling/Shrub Stratum (Plot size: 15' OBL species **FACW** species 0 x 2 = 0 FAC species x 3 = ___ 0 2 3. **FACU** species x 4 = 4. UPL species 0 x 5 = 0 Column Totals: 102 (A) 108 6. Prevalence Index = B/A = 1.06 **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% OBL Yes X 3 - Prevalence Index is ≤3.0¹ Carex stricta 4 - Morphological Adaptations¹ (Provide supporting 40 2. Yes OBL Carex lacustris data in Remarks or on a separate sheet) 2 **FACU** 3. Solidago canadensis No 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 102 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation No ___ Present? Yes X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Wet 6

	cription: (Describe t	to the de	-			ator or c	onfirm the absence of	findicators.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-10	10yr 2/1	100					Sandy	
10-14	10yr 4/2	100					Sandy	
14-25	10yr 2/1	87	7.5yr 3/3	3	<u>C</u>	<u>M</u>	Mucky Loam/Clay	Distinct redox concentrations
			10yr 4/2	10	D	M		
¹ Type: C=Co	oncentration, D=Depl	etion, RM	M=Reduced Matrix, M	1S=Masl	ked Sand	d Grains.	. ² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators fo	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,		ck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B					airie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S			-		e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			R K , L)		k Surface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed		F2)			ganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matrix					t Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su					ent Material (F21) (outside MLRA 145)
	sleyed Matrix (S4)		Depleted Dark					allow Dark Surface (F22)
	edox (S5)		Redox Depress		3)			podic (TA6) (MLRA 144A, 145, 149B)
	Matrix (S6)		Marl (F10) (LR		04) (BAL F	3 4 4 4 5 \	Other (E)	xplain in Remarks)
X Dark Su	nace (57)		Red Parent Ma	iteriai (F.	21) (IVILI	KA 145)		
³ Indicators of	f hydrophytic vegetati	ion and w	vetland hydrology mu	ıst be pr	esent, ur	nless dis	turbed or problematic.	
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Presen	it? Yes_X_ No
Remarks:	act is revised from N	orthoontr	al and Northagat Bar	rional Cu	ınnlamaı	at Varaio	on 2.0 to include the NP	CS Field Indicators of Hydric Soils
Version 8.0,		ortricentra	ai and Northeast Rec	gioriai Si	appiemei	it versio	on 2.0 to include the NK	CS Field Indicators of Hydric Soils,
7 0.0.0 0.0,	_0.0.							

Project/Site: 1560-02-01	City/County	/: Sawyer	Sampling Date: 06/19/2017
Applicant/Owner: WisDOT		State: WI	Sampling Point: Up 6
Investigator(s): Dave Runquist	Se	ection, Township, Range: T14N R	89W S14
Landform (hillside, terrace, etc.): Shoulder	Local relief (conca	ve, convex, none): Convex	Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46		Long: 91°27'46.13"W	Datum: wccs-sawyer
Soil Map Unit Name: 407A Seelyville & Markey Soil		NWI classification	
Are climatic / hydrologic conditions on the site typical for this	s time of year?		explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignature and the state type and the	-	Are "Normal Circumstances" pres	
Are Vegetation, Soil, or Hydrologyna		(If needed, explain any answers i	
<u> </u>			
SUMMARY OF FINDINGS – Attach site map s	nowing sampling poli	nt locations, transects, in	nportant teatures, etc.
Hydrophytic Vegetation Present? Yes	No X Is the Sa	mpled Area	
Hydric Soil Present? Yes	No X within a	Wetland? Yes	No X
Wetland Hydrology Present? Yes	No X If yes, op	tional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a sep-	arate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators ((minimum of two required)
Primary Indicators (minimum of one is required; check all t	hat apply)	Surface Soil Crack	•
	tained Leaves (B9)	 Drainage Patterns	` '
1 	Fauna (B13)	Moss Trim Lines (
Saturation (A3) Marl De	posits (B15)	Dry-Season Water	
Water Marks (B1) Hydroge	n Sulfide Odor (C1)	Crayfish Burrows	(C8)
Sediment Deposits (B2) Oxidized	Rhizospheres on Living Roo	ots (C3) Saturation Visible	on Aerial Imagery (C9)
Drift Deposits (B3) Presence	e of Reduced Iron (C4)	Stunted or Stresse	ed Plants (D1)
Algal Mat or Crust (B4) Recent I	ron Reduction in Tilled Soils	(C6) Geomorphic Posit	ion (D2)
Iron Deposits (B5) Thin Mu	ck Surface (C7)	Shallow Aquitard ((D3)
Inundation Visible on Aerial Imagery (B7) Other (E	xplain in Remarks)	Microtopographic	Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test	(D5)
Field Observations:			
Surface Water Present? Yes No X	Depth (inches):		
Water Table Present? Yes No X	Depth (inches):		
Saturation Present? Yes No X	Depth (inches):	Wetland Hydrology Present?	Yes No X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspec	ctions), if available:	
Remarks:			

roo Stratum (Blot aizo: 20')	Absolute % Cover	Dominant Species?	Indicator	Deminance Test worksheet:
Free Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
l 2				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A
s				
i				Total Number of Dominant Species Across All Strata: 2 (E
i				Percent of Dominant Species
i.				That Are OBL, FACW, or FAC: 0.0% (A
·				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
				FACW species 2 x 2 = 4
				FAC species 0 x 3 = 0
·				FACU species 65 x 4 = 260
·				UPL species 35 x 5 = 175
				Column Totals: 102 (A) 439
				Prevalence Index = B/A = 4.30
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5')				2 - Dominance Test is >50%
. Poa pratensis	65	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Bromus inermis	25	Yes	UPL	4 - Morphological Adaptations ¹ (Provide suppo
. Centaurea stoebe	10	No	UPL	data in Remarks or on a separate sheet)
. Phalaris arundinacea	2	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology mu
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
·				Tree – Woody plants 3 in. (7.6 cm) or more in
· <u> </u>				diameter at breast height (DBH), regardless of height
0				Sapling/shrub – Woody plants less than 3 in. DBI
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardl
	102	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28
·				height.
<u> </u>				Hydrophytic
·				Vegetation
·				Present?
		=Total Cover		

SOIL Sampling Point Up 6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Loc² Texture Type¹ Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) (outside MLRA 145) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Very Shallow Dark Surface (F22) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Red Parent Material (F21) (MLRA 145) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: This data sheet is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 8.0, 2016. Unable to dig due to refusal at surface

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet 7
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S14
Landform (hillside, terrace, etc.): Toeslope Local r	relief (concave, convex, none): Concave Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'37.30"N	Long: 91°27'44.71"W Datum: wccs-sawyer
Soil Map Unit Name: 407A Seelyeville and Markey Soils	NWI classification: T5/S3K
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing samp	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1) Water-Stained Leaves (B	<u> </u>
X High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Sediment Deposits (B2) Oxidized Rhizospheres o	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches):	16
Water Table Present? Yes X No Depth (inches):	0
Saturation Present? Yes X No Depth (inches):	0 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:
Deventor	
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: Wet 7 Dominant Absolute Indicator <u>Tree Stratum</u> (Plot size: 30') % Cover **Dominance Test worksheet:** Species? Status **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: 3 (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Multiply by: =Total Cover Total % Cover of: 75 x 1 = Sapling/Shrub Stratum (Plot size: 15' **OBL** species Salix petiolaris **FACW FACW** species 105 x 2 = 1 5 Spiraea alba No **FACW** FAC species x 3 = 3 0 3. **FACU** species x 4 = 4. UPL species 0 x 5 = 0 5. Column Totals: 181 (A) 288 6. Prevalence Index = B/A = 1.59 **Hydrophytic Vegetation Indicators:** 7 80 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% OBL Yes 3 - Prevalence Index is ≤3.01 Carex lacustris 4 - Morphological Adaptations¹ (Provide supporting 30 2. Yes OBL Carex stricta data in Remarks or on a separate sheet) 20 **FACW** 3. Salix petiolaris No 4. Spiraea alba 5 No **FACW** Problematic Hydrophytic Vegetation¹ (Explain) 5. Equisetum arvense 1 No FAC ¹Indicators of hydric soil and wetland hydrology must 5 6. OBL be present, unless disturbed or problematic. Utricularia intermedia No 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 101 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation No __ Present? Yes X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Wet 7

Depth	ription: (Describe t Matrix	o the de		ument ti x Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
(1101100)	Color (molet)	70	Color (molot)		1,700		Toxtaro	Romano
				·				
¹ Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils ³ :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (l	LRR R,	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B)			Coast P	rairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	49B) 5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	311) (LRF	R K, L)	Polyvalu	ie Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR I	R K, L)	Thin Dar	rk Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Mar	nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	. ,	Depleted Matri		,			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			ent Material (F21) (outside MLRA 145)
	leyed Matrix (S4)		Depleted Dark					allow Dark Surface (F22)
	edox (S5)		Redox Depress					podic (TA6) (MLRA 144A, 145, 149B)
	Matrix (S6)		Marl (F10) (LR		-,			Explain in Remarks)
	face (S7)		Red Parent Ma		21) (MI F	RA 145)		mprain in resinance)
Bank Gan	1400 (01)		RCGT GIGHT WE	atoriai (i	21) (IVILI	(A 140)		
³ Indicators of	f hydrophytic vegetati	on and w	etland hydrology mi	ist he nr	asant iir	nlace diet	urhed or problematic	
	_aver (if observed):	on and w	cliana nyarology mi	ast be pr	CSCIII, UI	iicaa diat	urbed or problematic.	
Type:	Layer (ii observed).							
•								
Depth (ir	nches):						Hydric Soil Presei	nt? Yes No X
Remarks:								
		orthcentra	l and Northeast Re	gional Si	upplemei	nt Versior	n 2.0 to include the NR	RCS Field Indicators of Hydric Soils,
Version 8.0,	2016.							
Unable to did	soil pit due to standi	na water	Too wet for soil or	oha sam	nle			
Onabic to dig	g son pit due to standi	ing water	100 Wet for 3011 pr	obc san	ipic.			

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/19/2017
Applicant/Owner: WisDOT	State: WI Sampling Point: Up 7
Investigator(s): Dave Runquist	Section, Township, Range: T41N R9W S14
Landform (hillside, terrace, etc.): Shoulder Loca	al relief (concave, convex, none): Convex Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'36.30"N	Long: 91°27'45.50"W Datum: wccs-sawyer
Soil Map Unit Name: 407A Seelyeville and Markey soils	NWI classification: None
·	
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrologysignificantly distr	
Are Vegetation, Soil, or Hydrologynaturally problem	matic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.
Lludrophytic Vegetation Present?	In the Compled Area
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	If yes, optional Wetland Site ID:
	ii yes, opiionai wetiana olie ib.
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odol	r (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reduction	<u> </u>
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remainder)	· · · · · · · · · · · · · · · · · · ·
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
	(AO-Neutral Test (B3)
Field Observations:	
Surface Water Present? Yes No X Depth (inches	
Water Table Present? Yes No X Depth (inches	
Saturation Present? Yes No X Depth (inches	s): Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:
Remarks:	

ree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
·				Number of Deminant Chasics
				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
·				Total Number of Dominant
				Species Across All Strata: 1 (B)
·				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0.0% (A/B
				Prevalence Index worksheet:
andian/Ohmah Ohmahan (Districts)		_=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15')				OBL species 5 x 1 = 5
				FACW species 5 x 2 = 10
		-		FAC species 0 x 3 = 0
				FACU species 90 x 4 = 360
				UPL species 0 x 5 = 0
				Column Totals: 100 (A) 375 (B
				Prevalence Index = B/A = 3.75
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5')				2 - Dominance Test is >50%
Poa pratensis	85	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
Carex lacustris	5	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
Lotus corniculatus	5	No	FACU	data in Remarks or on a separate sheet)
Phalaris arundinacea	5	No	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
- <u>- </u>				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
D				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2	100	=Total Cover		Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30')	-		Woody vines – All woody vines greater than 3.28 ft in
·		-		height.
				Hydrophytic
·				Vegetation
				Present?
		=Total Cover		

SOIL Sampling Point Up 7 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) Loc² Texture Type¹ Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (F21) (outside MLRA 145) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Very Shallow Dark Surface (F22) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks) Dark Surface (S7) Red Parent Material (F21) (MLRA 145) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: This data sheet is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 8.0, 2016. Unable to dig due to refusal at surface

Project/Site: 1560-02-01 City/County: Sawyer San	mpling Date: 06/15/2017
Applicant/Owner: WisDOT State: WI Sa	ampling Point: Wet 8
Investigator(s): Dave Runquist Section, Township, Range: T41N R9W S	S14
Landform (hillside, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave	Slope %: 0-1
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'36.32"N Long: 91°27'45.68"W	Datum: WCCS-Sawyer
Soil Map Unit Name: 407A Seeleyville and Markey soils NWI classification: No	
<u> </u>	ain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present?	
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Rer	
_ _	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, impor	rtant reatures, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area	
Hydric Soil Present? Yes X No within a Wetland? Yes X No	 _
Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separate report.)	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (minin	mum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (Be	6)
Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10	0)
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)	
X Saturation (A3) Marl Deposits (B15) Pry-Season Water Table	le (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Ae	erial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Pla	ants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D	D2)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief	f (D4)
Sparsely Vegetated Concave Surface (B8) X FAC-Neutral Test (D5)	
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): 13	
Saturation Present? Yes X No Depth (inches): 11 Wetland Hydrology Present?	Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants. Sampling Point: Wet 8 Dominant Absolute Indicator <u>Tree Stratum</u> (Plot size: 30') Status **Dominance Test worksheet:** % Cover Species? **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: 11<u>0</u> x 1 = Sapling/Shrub Stratum (Plot size: 15' OBL species **FACW** species 0 x 2 =0 FAC species x 3 = 0 3. **FACU** species 10 x 4 = 4. UPL species 0 x 5 = 0 Column Totals: 120 (A) 150 1.25 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50% OBL Yes X 3 - Prevalence Index is ≤3.0¹ Carex stricta 4 - Morphological Adaptations¹ (Provide supporting 20 2. No OBL Carex lacustris data in Remarks or on a separate sheet) 10 **FACU** 3. Cirsium arvense No Symphyotrichum puniceum 10 No OBL Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless 120 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation No ___ Present? Yes X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point Wet 8

Depth (inches) Matrix (close) Redox Features Loc² Texture Remarks 0-7 10yr 2/2 100 Loamy/Clayey Loamy/Clayey 7-13 10yr 2/2 93 7.5yr 4/6 3 C M Loamy/Clayey Prominent redox concentrations
0-7 10yr 2/2 100 Loamy/Clayey 7-13 10yr 2/2 93 7.5yr 4/6 3 C M Loamy/Clayey Prominent redox concentrations - 7.5yr 5/8 2 C M Prominent redox concentrations - 5yr 4/6 2 C M Prominent redox concentrations 13-23 10yr 2/1 80 7.5yr 5/8 3 C M Loamy/Clayey Prominent redox concentrations
7-13 10yr 2/2 93 7.5yr 4/6 3 C M Loamy/Clayey Prominent redox concentrations 7.5yr 5/8 2 C M Prominent redox concentrations 5yr 4/6 2 C M Prominent redox concentrations 13-23 10yr 2/1 80 7.5yr 5/8 3 C M Loamy/Clayey Prominent redox concentrations
7.5yr 5/8 2 C M Prominent redox concentrations 5yr 4/6 2 C M Prominent redox concentrations 13-23 10yr 2/1 80 7.5yr 5/8 3 C M Loamy/Clayey Prominent redox concentrations
5yr 4/6 2 C M Prominent redox concentrations 13-23 10yr 2/1 80 7.5yr 5/8 3 C M Loamy/Clayey Prominent redox concentrations
13-23 10yr 2/1 80 7.5yr 5/8 3 C M Loamy/Clayey Prominent redox concentrations
10yr 5/2
7.5yr 5/6 2 C M Prominent redox concentrations
23-25 10yr 2/1 100 Sandy
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4) High Chroma Sands (S11) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1) X Redox Dark Surface (F6) Red Parent Material (F21) (outside MLRA 145)
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Very Shallow Dark Surface (F22)
Sandy Redox (S5)Redox Depressions (F8)Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)
Dark Surface (S7) Red Parent Material (F21) (MLRA 145)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if observed):
Type:
Depth (inches): Hydric Soil Present? Yes X No
Remarks: This data sheet is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 8.0, 2016.

Project/Site: 1560-02-01	City/County: Sawyer Sampling Date: 06/15/2017					
Applicant/Owner: WisDOT	State: WI Sampling Point: Wet 9					
Investigator(s): Dave Runquist						
Landform (hillside, terrace, etc.): Toeslope Local r	relief (concave, convex, none): Concave Slope %: 0-1					
Subregion (LRR or MLRA): LRR K, MLRA 90A Lat: 46°01'36.34"N	Long: 91°27'48.40"W Datum: wccs-sawyer					
Soil Map Unit Name: 407A Seelyeville and Markey soils	NWI classification: T5/S3K					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly disturb						
Are Vegetation, Soil, or Hydrologynaturally problema						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes No X	within a Wetland? Yes No _X_					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
X Surface Water (A1) Water-Stained Leaves (E	<u> </u>					
X High Water Table (A2) Aquatic Fauna (B13) And Barasik (B45)	X Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15) Multiple Code (A4) Marl Deposits (B15)	Dry-Season Water Table (C2)					
	Water Marks (B1)Hydrogen Sulfide Odor (C1)Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)					
<u> </u>						
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2)						
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) X Geomorphic Position (D2) Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) X Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:	<u>X 1710 11000000 1200)</u>					
Surface Water Present? Yes X No Depth (inches):	8.5					
Water Table Present? Yes X No Depth (inches): Depth (inches):	0.5					
Saturation Present? Yes X No Depth (inches):						
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:					
Remarks:						

VEGETATION – Use scientific names of plants.

Trac Stratum (Dictains, 20)	Absolute	Dominant	Indicator	Deminance Test weeksheet
Tree Stratum (Plot size: 30')	% Cover 40	Species?	Status FACW	Dominance Test worksheet:
Larix laricina Populus tremuloides		Yes No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Acer rubrum	 15	Yes	FAC	That Are OBE, FACW, OF FAC4 (A)
Betula papyrifera	5	No	FACU	Total Number of Dominant Species Across All Strata: 5 (B)
5.		110	1700	(D)
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
7.				Prevalence Index worksheet:
	65	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 15 x 1 = 15
1. Ilex verticillata	80	Yes	FACW	FACW species 130 x 2 = 260
2. Corylus cornuta	5	No	FACU	FAC species 70 x 3 = 210
3. Alnus incana	5	No	FACW	FACU species 45 x 4 = 180
4.				UPL species 0 x 5 = 0
5.				Column Totals: 260 (A) 665 (B)
6.				Prevalence Index = B/A = 2.56
7.				Hydrophytic Vegetation Indicators:
	90	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		•		X 2 - Dominance Test is >50%
1. Osmundastrum cinnamomeum	5	No	FACW	3 - Prevalence Index is ≤3.0 ¹
2. Calamagrostis canadensis	10	No	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Carex stipata	5	No	OBL	data in Remarks or on a separate sheet)
4. Cornus canadensis	40	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Carex tenera	5	No	FAC	Indicators of hydric soil and wetland hydrology must
6. Maianthemum canadense	15	No	FACU	be present, unless disturbed or problematic.
7. Acer rubrum	5	No	FAC	Definitions of Vegetation Strata:
8. Vaccinium angustifolium	20	Yes	FACU	Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12	105	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1.				Woody vines – All woody vines greater than 3.28 ft in height.
0				The system
2				Hydrophytic
1				Vegetation Present? Yes X No
T		=Total Cover		· · · · · · · · · · · · · · · · · · ·
Remarks: (Include photo numbers here or on a separ	ate sheet)			
. tomano. (moidde priote numbers nere or on a separ	ato 31166t.)			

Sampling Point:

Wet 9

SOIL Sampling Point Wet 9

Depth	cription: (Describe Matrix	to the de	-	ument ti x Featur		ator or co	onfirm the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	R	Remarks
0-3	10yr 5/2	100					Sandy		
3-6	10yr 2/2	100					Sandy		
	10yl 2/2	100					Sandy		
	·								
	oncentration, D=Dep	letion, RN	1=Reduced Matrix, N	1S=Mas	ked Sand	d Grains.		_=Pore Lining, N	
Hydric Soil			Daharahaa Dala		(00) (r Problematic	-
— Histosol			Polyvalue Belo		ce (58) (LKK K,			K, L, MLRA 149B)
	pipedon (A2) istic (A3)		MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 1					6) (LRR K, L, R) t (S3) (LRR K, L, R)	
	en Sulfide (A4)		High Chroma S					-	e (S8) (LRR K, L)
	d Layers (A5)		Loamy Mucky			-		k Surface (S9) (
Depleted Below Dark Surface (A11)			Loamy Gleyed Matrix (F2)					(F12) (LRR K, L, R)	
Thick Da	ark Surface (A12)		Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (N			ls (F19) (MLRA 149B)			
Sandy Mucky Mineral (S1)			Redox Dark Surface (F6)			Red Pare	ent Material (F21	1) (outside MLRA 145	
Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7)				llow Dark Surfa		
Sandy Redox (S5)			Redox Depressions (F8)					RA 144A, 145, 149B)	
Stripped Matrix (S6)			Marl (F10) (LRR K, L) Red Parent Material (F21) (MLRA 145)			Other (Ex	cplain in Remark	(S)	
Dark Su	ırface (S7)		Red Parent Ma	iteriai (F	·21) (IVILI	KA 145)			
³ Indicators o	of hydrophytic vegetat	tion and w	etland hydrology mu	ıst he nı	resent ui	nless dist	urbed or problematic.		
	Layer (if observed):		rollaria riyarology me	iot bo pi	1000111, 41	nooc dict	dibod of problematic.		
Type:	, , , , , , , , , , , , , , , , , , , ,								
Depth (i	nches):						Hydric Soil Presen	t? Yes	NoX
Remarks:									
		orthcentra	al and Northeast Re	gional S	uppleme	nt Versior	n 2.0 to include the NR0	CS Field Indicat	ors of Hydric Soils,
Version 8.0,	2016.								
>6" too wet.	Sample obtained with	th soil pro	be. Unable to view	soil prof	ile with s	oil pit.			

Appendix C

Photos







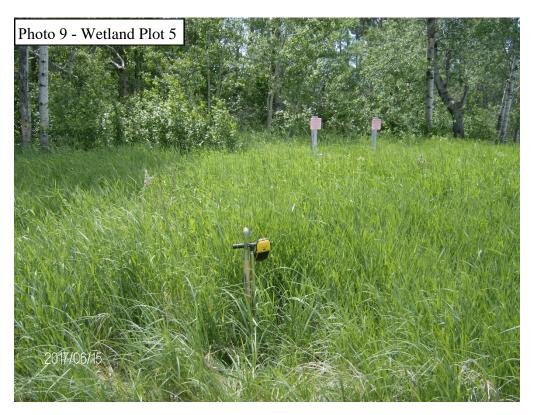


























Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1560-02-70; Hayward – Drummond; STH 27 – Larsen Road, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2018 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system. 100-005 (20170615)

2. Scope of Work.

The work under this contract shall consist of pavement removal, base aggregate dense, HMA pavement, pavement marking, permanent signing, culvert replacement, beam guard replacement, borrow, and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract. 104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Provide the time frame for construction of the project within the 2018 construction season to the engineer in writing within a month of executing the contract but at least 14 calendar days before the preconstruction meeting. Assure that the construction time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within 10 calendar days from the beginning of the approved time frame.

To revise the start date, submit a written request to the engineer at least two weeks before the intended start date. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

Construction shall begin on April 1, 2019. The detour shall be put in effect no later than 6:00 AM, Monday April 8, 2019. Removal of concrete pavement, placing base aggregate dense, paving HMA binder layer, and construction of the Hospital Rd / USH 63 intersection shall be completed prior to removal of detour. The Detour shall be discontinued and through traffic restored on the HMA Binder Layer to USH 63 by June 12, 2019. Paving HMA

surface layer under flagging operation shall be completed by June 26, 2019. All project work shall be complete by July 12, 2019.

Contractor shall coordinate work so that the culvert replacement occurring in McDermott Creek (STA: 600+85) shall be completed prior to paving HMA Pavement binder layer on USH 63.

Fish Spawning

There shall be no instream disturbance of McDermott Creek as a result of construction activity under or for this contract, prior to May 15, in order to avoid adverse impacts upon the spawning of trout.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR. Fish (20090901)

Northern Long-eared Bat (Myotis septentrionalis)

Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees. Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the Federal Endangered Species Act. If an individual bat or active roost is encountered during construction operations, stop work and notify the engineer and the WisDOT Regional Environmental Coordinator (REC).

In accordance to the final 4(d) rule issued for the NLEB, the department has determined that the proposed activity may affect, but will not result in prohibited take of the NLEB. The activity involves tree removal, but will not occur within 0.25 miles of a known hibernacula, nor will the activity remove a known maternity roost tree or any other tree within 150 feet of a known maternity roost tree.

If additional trees need to be removed, no Clearing shall occur without prior approval from the engineer, following coordination with the WisDOT REC. Additional tree removal beyond the area originally specified will require consultation with the United States Fish and Wildlife Service (USFWS) and may require a bat presence/absence survey. Notify the engineer if additional Clearing cannot be avoided to begin coordination with the WisDOT REC. The WisDOT REC will initiate consultation with the USFWS and determine if a survey is necessary.

Submit a schedule and description of Clearing operations with the ECIP 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of Clearing operations, and list those additional measures in the ECIP.

4. Traffic.

USH 63 will be detoured to through traffic during a portion of the project's construction. Access will be maintained for local traffic and emergency vehicles only. The proposed detour route will follow STH 77 easterly for 12 miles and then northerly on CTH OO for 6.6 miles. The proposed truck detour route will follow STH 77 westerly for 3.9 miles, then northerly on STH 27 for 39 miles. Maintain all detour signs.

After the detour is complete and traffic is rerouted to USH 63, traffic shall be controlled utilizing temporary single lane closures controlled through flagging operations.

Notify the following organizations and departments at least 48 hours before the detour on USH 63 takes affect:

- Sawyer County Sheriff's Department
- Wisconsin State Patrol
- Sawyer County Highway Department
- Hayward Post Office

The Sawyer County Sheriff's Department 911 Communications Center dispatches all area police, fire, and ambulance services, and will relay any notification given by the contractor.

Wisconsin Lane Closure System Advance Notification

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date. The contractor shall notify the engineer 14 calendar days prior to implementing the detour route. stp-108-057 (20161130)

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying USH 63 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 24th to 6:00 AM Tuesday, May 28th;
- From noon Wednesday, July 3rd, to 6:00 AM Friday, July 4th;
- From noon Friday, August 30th to 6:00 AM Tuesday, September 3rd.

stp-107-005 (20050502)

6. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Enter name of contact at Enter phone number.

stp-107-054 (20080901)

7. Environmental Protection, Aquatic Exotic Species Control.

Exotic invasive organisms such as VHS, zebra mussels, purple loosestrife, and Eurasian water milfoil are becoming more prolific in Wisconsin and pose adverse effects to waters of the state. Wisconsin State Statutes 30.07, "Transportation of Aquatic Plants and Animals; Placement of Objects in Navigable Waters", details the state law that requires the removal of aquatic plants and zebra mussels each time equipment is put into state waters.

At construction sites that involve navigable water or wetlands, use the follow cleaning procedures to minimize the chance of exotic invasive species infestation. Use these procedures for all equipment that comes in contact with waters of the state and/or infested water or potentially infested water in other states.

Ensure that all equipment that has been in contact with waters of the state, or with infested or potentially infested waters, has been decontaminated for aquatic plant materials and zebra mussels prior to being used in other waters of the state. Before using equipment on this project, thoroughly disinfect all equipment that has come into contact with potentially

infested waters. Use the following inspection and removal procedures (guidelines from the Wisconsin Department of Natural Resources http://dnr.wi.gov/topic/fishing/documents/vhs/disinfection_protocols.pdf for disinfection:

- 1. Prior to leaving the contaminated site, wash machinery and ensure that the machinery is free of all soil and other substances that could possibly contain exotic invasive species;
- 2. Drain all water from boats, trailers, bilges, live wells, coolers, bait buckets, engine compartments, and any other area where water may be trapped;
- 3. Inspect boat hulls, propellers, trailers and other surfaces. Scrape off any attached mussels, remove any aquatic plant materials (fragments, stems, leaves, seeds, or roots), and dispose of removed mussels and plant materials in a garbage can prior to leaving the area or invested waters; and
- 4. Disinfect your boat, equipment and gear by either:
 - a. Washing with ~212° F water (steam clean), or
 - b. Drying thoroughly for five days after cleaning with soap and water and/or high pressure water, or
 - c. Disinfecting with either 200 ppm (0.5 oz per gallon or 1 Tablespoon per gallon) Chlorine for 10-minute contact time or 1:100 solution (38 grams per gallon) of Virkon Aquatic for 20- to 30-minute contact time. Note: Virkon is not registered to kill zebra mussel veligers nor invertebrates like spiny water flea. Therefore this disinfect should be used in conjunction with a hot water (>104° F) application.

Complete the inspection and removal procedure before equipment is brought to the project site and before the equipment leaves the project site. stp-107-055 (20130615)

8. QMP Base Aggregate.

A Description

A.1 General

- (1) This special provision describes contractor quality control (QC) sampling and testing for base aggregates, documenting those test results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.
- (2) Conform to standard spec 301, standard spec 305, and standard spec 310 as modified here in this special provision. Apply this special provision to material placed under all of the Base Aggregate Dense and Base Aggregate Open Graded bid items, except do not apply this special provision to material classified as reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.

- (3) Do not apply this special provision to material placed and paid for under the Aggregate Detours, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.
- (4) Provide and maintain a quality control program, defined as all activities related to and documentation of the following:
 - 1. Production and placement control and inspection.
 - 2. Material sampling and testing.
- (5) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required sampling and testing procedures. The contractor may obtain the CMM from the department's web site at: http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/rdwy/default.aspx

A.2 Small Quantities

- (1) The department defines a small quantity, for each individual Base Aggregate bid item, as a contract quantity of 9000 tons or less of material as shown in the schedule of items under that bid item.
- (2) The requirements under this special provision apply equally to a small quantity for an individual bid item except as follows:

A.2.1 Quality Control Plan

- (1) Submit an abbreviated quality control plan consisting of the following:
 - 1. Organizational chart including names, telephone numbers, current certification(s) with HTCP number(s) and expiration date(s), and roles and responsibilities of all persons involved in the quality control program for material under affected bid items.

A.2.2 Contractor Testing

1.

Contract Quantity	Minimum Required Testing per source
\leq 6000 tons	One stockpile test prior to placement, and
	two production or one loadout test. ^{[1] [2]}
$>$ 6000 tons and \leq 9000 tons	One stockpile and Three placement tests ^[3]

- [1] Submit production test results to the engineer for review prior to incorporating the material into the work. Production test results are valid for a period of 3 years.
- [2] If the actual quantity overruns 6,000 tons, on the next day of placement perform one randomly selected placement test for each 3000 tons, or fraction of 3000 tons, of overrun.
- [3] If the actual quantity overruns 9000 tons, on the next day of placement perform one randomly selected placement test for each 3000 tons, or fraction of 3000 tons, of overrun.
- [4] For 3-inch material or lift thickness of 3-inch or less, obtain samples at load-out.
- Divide the aggregate into uniformly sized sublots for testing

- 2. Stockpile testing for concrete pavement recycled in place will be sampled on the first day of production.
- 3. Until a four point running average is established, individual placement tests will be used for acceptance. Submit aggregate load-out and placement test results to the engineer within one business day of obtaining the sample. Assure that all properties are within the limits specified for each test.
- 4. Material represented by a sublot with any property outside the specification limits is nonconforming. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

A.2.3 Department Testing

- (1) The department will perform testing as specified in B.8 except as follows:
 - Department stockpile verification testing prior to placement is optional for contract quantities of 500 tons or less.

B Materials

B.1 Quality Control Plan

- (1) Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not place base before the engineer reviews and comments on the plan. Construct the project as that plan provides.
- (2) Do not change the quality control plan without the engineer's review. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in each of the contractor's laboratories as changes are adopted. Ensure that the plan provides the following elements:
 - 1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
 - 2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication means that will be used, and action time frames.
 - 3. A list of source and processing locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
 - 4. Test results for wear, sodium sulfate soundness, freeze/thaw soundness, and plasticity index of all aggregates requiring QC testing. Obtain this information from the region materials unit or from the engineer.
 - 5. Descriptions of stockpiling and hauling methods.
 - 6. Locations of the QC laboratory, retained sample storage, and where control charts and other documentation is posted.
 - 7. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

B.2 Personnel

(1) Have personnel certified under the department's highway technician certification program (HTCP) perform sampling, testing, and documentation as follows:

Required Cer	rtification Level:	Sampling or Testing Roles:

Transportation Materials Sampling Technician (TMS) Aggregate Technician I (AGGTEC-I) Aggregate Assistant Certified Technician (ACT-AGG)	Aggregate Sampling ^[1]
Aggregate Technician I (AGGTEC-I) Aggregate Assistant Certified Technician (ACT-AGG)	Aggregate Gradation Testing, Aggregate Fractured Particle Testing, Aggregate Liquid Limit and Plasticity Index Testing

Plant personnel under the direct observation of an aggregate technician certified at level one or higher may operate equipment to obtain samples.

(2) A certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

B.3 Laboratory

(1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Management Section

3502 Kinsman Blvd. Madison, WI 53704

Telephone: (608) 246-5388

 $\underline{http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/qual-labs.aspx}$

B.4 Quality Control Documentation

B.4.1 General

(1) Submit base aggregate placement documentation to the engineer within 10 business days after completing base placement. Ensure that the submittal is complete, neatly organized, and includes applicable project records and control charts.

B.4.2 Records

(1) Document all placement observations, inspection records, and control adjustments daily in a permanent field record. Also include all test results in the project records. Provide test results to the engineer within one business day after obtaining a sample. Post or distribute tabulated results using a method mutually agreeable to the engineer and contractor.

B.4.3 Control Charts

(1) Plot gradation and fracture on the appropriate control chart as soon as test results are available. Format control charts according to CMM 8.30. Include the project number on base placement control charts. Maintain separate control charts for each base aggregate size, source or classification, and type.

- (2) Provide control charts to the engineer within one business day after obtaining a sample. Post or distribute charts using a method mutually agreeable to the engineer and contractor. Update control charts daily to include the following:
 - 1. Contractor individual QC tests.
 - 2. Department QV tests.
 - 3. Department IA tests.
 - 4. Four-point running average of the QC tests.
- (3) Except as specified under B.8.2.1 for nonconforming QV placement tests, include only QC placement tests in the running average. The contractor may plot process control or informational tests on control charts, but do not include these tests, conforming QV tests, or IA tests in the running average.

B.5 Contractor Testing

- (1) Test gradation, fracture, liquid limit and plasticity index during placement for each base aggregate size, source or classification, and type.
- (2) Perform one stockpile test from each source prior to placement.
- (3) Test gradation once per 3000 tons of material placed or fraction thereof. Determine random sample locations and provide those sample locations to the engineer. Obtain samples after the material has been bladed, mixed, and shaped but before compacting; except collect 3-inch samples or lift thickness of 3-inch or less from the stockpile at load-out. Do not sample from material used to maintain local traffic or from areas of temporary base that will not have an overlying pavement. On days when placing only material used to maintain local traffic or only temporary base that will not have an overlying pavement, no placement testing is required.
- (4) Split each contractor QC sample and identify it according to CMM 8.30. Retain the split for seven calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.
- (5) The engineer may require additional sampling and testing to evaluate suspect material or the technician's sampling and testing procedures.
- (6) Test fracture for each gradation test until the fracture running average is above the lower warning limit. Subsequently, the contractor may reduce the frequency to one test per 10 gradation tests if the fracture running average remains above the warning limit.
- (7) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

B.6 Test Methods

B.6.1 Gradation

(1) Test gradation using a washed analysis conforming to the following as modified in CMM 8.60:

Gradation	. AASHTO T 27
Material finer than the No. 200 sieve	AASHTO T 11

- (2) For 3-inch base, if 3 consecutive running average points for the percent passing the No. 200 sieve are 8.5 percent or less, the contractor may use an unwashed analysis. Wash at least one sample out of 10. If a single running average for the percent passing the No. 200 sieve exceeds 8.5 percent, resume washed analyses until 3 consecutive running average points are again 8.5 percent passing or less.
- (3) Maintain a separate control chart for each sieve size specified in standard spec 305 or standard spec 310 for each base aggregate size, source or classification, and type. Set control and warning limits based on the standard specification gradation limits as follows:
 - 1. Control limits are at the upper and lower specification limits.
 - 2. There are no upper warning limits for sieves allowing 100 percent passing and no lower control limits for sieves allowing 0 percent passing.
 - 3. Dense graded warning limits, except for the No. 200 sieve, are 2 percent within the upper and lower control limits. Warning limits for the No. 200 sieve are set 0.5 percent within the upper and lower control limits.
 - 4. Open graded warning limits for the 1-inch, 3/8-inch, and No. 4 sieves are 2 percent within the upper and lower control limits. Upper warning limits for the No. 10, No. 40, and No. 200 sieves are 1 percent inside the upper control limit.

B.6.2 Fracture

- (1) Test fracture conforming to CMM 8.60. The engineer will waive fractured particle testing on quarried stone.
- (2) Maintain a separate fracture control chart for each base aggregate size, source or classification, and type. Set the lower control limit at the contract specification limit, either specified in another special provision or in table 301-2 of standard spec 301.2.4.5. Set the lower warning limit 2 percent above the lower control limit. There are no upper limits.

B.6.3 Liquid Limit and Plasticity

- (1) Test the liquid limit and plasticity according to AASHTO T 89 and T 90.
- (2) Ensure the material conforms to the limits specified in standard spec table 301-2.

B.7 Corrective Action

B.7.1 General

(1) Consider corrective action when the running average trends toward a warning limit. Take corrective action if an individual test exceeds the contract specification limit. Document all corrective actions both in the project records and on the appropriate control chart.

B.7.2 Placement Corrective Action

(1) Do not blend additional material on the roadbed to correct gradation problems.

- (2) Notify the engineer whenever the running average exceeds a warning limit. When two consecutive running averages exceed a warning limit, the engineer and contractor will discuss appropriate corrective action. Perform the engineer's recommended corrective action and increase the testing frequency as follows:
 - 1. For gradation, increase the QC testing frequency to at least one randomly sampled test per 1000 tons placed.
 - 2. For fracture, increase the QC testing frequency to at least one test per gradation test.
- (3) If corrective action improves the property in question such that the running average after four additional tests is within the warning limits, the contractor may return to the testing frequency specified in B.5.3. If corrective action does not improve the property in question such that the running average after four additional individual tests is still in the warning band, repeat the steps outlined above starting with engineer notification.
- (4) If the running average exceeds a control limit, material starting from the first running average exceeding the control limit and ending at the first subsequent running average inside the control limit is nonconforming and subject to pay reduction.
- (5) For individual test results significantly outside the control limits, notify the engineer, stop placing base, and suspend other activities that may affect the area in question. The engineer and contractor will jointly review data, data reduction, and data analysis; evaluate sampling and testing procedures; and perform additional testing as required to determine the extent of potentially unacceptable material. The engineer may direct the contractor to remove and replace that material. Individual test results are significantly outside the control limits if meeting one or more of the following criteria:
 - 1. A gradation control limit for the No. 200 sieve is exceeded by more than 3.0 percent.
 - 2. A gradation control limit for any sieve, except the No. 200, is exceeded by more than 5.0 percent.
 - 3. The fracture control limit is exceeded by more than 10.0 percent.

B.8 Department Testing

B.8.1 General

(1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within two business days after the department obtains the sample.

B.8.2 Verification Testing

B.8.2.1 General

(1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in B.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

- (2) The department will conduct QV tests of each base aggregate size, source or classification, and type during placement conforming to the following:
 - 1. Perform one stockpile test from each source prior to placement.
 - 2. At least one random test per 30,000 tons, or fraction of 30,000 tons, placed.
- (3) The department will sample randomly, at locations independent of the contractor's QC work, collecting one sample at each QV location. The department will collect QV samples after the material has been bladed, mixed, and shaped but before compacting; except, for 3-inch aggregates or for a lift thickness of 3-inch or less, the department will collect samples at load-out. The department will split each sample, test half for QV, and retain half.
- (4) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.
- (5) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

B.8.3 Independent Assurance

- (1) Independence assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:
 - 1. Split sample testing.
 - 2. Proficiency sample testing.
 - 3. Witnessing sampling and testing.
 - 4. Test equipment calibration checks.
 - 5. Reviewing required worksheets and control charts.
 - 6. Requesting that testing personnel perform additional sampling and testing.
- (2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in B.9.

B.9 Dispute Resolution

(1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate

sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

- (2) Production test results, and results from other process control testing, may be considered when resolving a dispute.
- (3) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C (Vacant)

D (Vacant)

E Payment

- (1) Costs for all sampling, testing, and documentation required under this special provision are incidental to this work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the non-performance of QMP administrative item.
- (2) For material represented by a running average exceeding a control limit, the department will reduce pay according to CMM 8-10.5.2 for the affected Base Aggregate bid items listed in subsection A. The department will administer pay reduction under the Nonconforming QMP Base Aggregate Gradation or Nonconforming QMP Base Aggregate Fracture Administrative items. The department will determine the quantity of nonconforming material as specified in B.7.2.

stp-301-010 (20170615)

9. Reheating HMA Pavement Longitudinal Joints, Item 460.4110.S.

A Description

This special provision describes reheating the abutting edge of the previously compacted layer in the adjacent lane while paving mainline asphalt pavements.

B (Vacant)

C Construction

C.1 Equipment

Provide a self-contained heating unit that heats by convection only. Do not use forced air to enhance the flame. Provide a fireproof barrier between the flame and the heater's fuel source. The heater must produce a uniform distribution of heat within the heat box. Provide automatic controls to regulate the heater output and shutoff the heater when the paver stops or the heater control system loses power.

Mount the heater on the paver inside the paver's automatic leveling device.

C.2 Reheating Joints

Evenly reheat at least an 8 inch (200 mm) wide strip of the previously compacted layer in the adjacent lane as follows:

• Reheat the joint to within 60 degrees F (15 degrees C) of the mix temperature at the paver auger. Measure joint temperature immediately behind the heater.

The engineer may allow the required joint reheat temperatures to be cooler than specified to adjust for weather, wind, and other field conditions. Coordinate the heater output and paver speed to achieve the required joint reheat temperature without visible smoke emission.

D Measurement

The department will measure Reheating HMA Pavement Longitudinal Joints by the linear foot acceptably completed as measured along each joint for each layer of asphalt placed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER DESCRIPTION UNIT 460.4110.S Reheating HMA Pavement Longitudinal Joints LF

Payment is full compensation for all the work required under this bid item. stp-460-015 (20140630)

10. QMP HMA Pavement Nuclear Density.

A Description

Replace standard spec 460.3.3.2 (1) and standard spec 460.3.3.2 (4) with the following:

- (1) This special provision describes density testing of in-place HMA pavement with the use of nuclear density gauges. Conform to standard spec 460 as modified in this special provision.
- (2) Provide and maintain a quality control program defined as all activities and documentation of the following:
 - 1. Selection of test sites.

- 2. Testing.
- 3. Necessary adjustments in the process.
- 4. Process control inspection.
- (3) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required procedures. Obtain the CMM from the department's web site at:

http://roadwaystandards.dot.wi.gov/standards/cmm/index.htm

(4) The department's Materials Reporting System (MRS) software allows contractors to submit data to the department electronically, estimate pay adjustments, and print selected reports. Qualified personnel may obtain MRS software from the department's web site at:

http://www.atwoodsystems.com/mrs

B Materials

B.1 Personnel

- (1) Perform HMA pavement density (QC, QV) testing using a HTCP certified nuclear technician I, or a nuclear assistant certified technician (ACT-NUC) working under a certified technician.
- (2) If an ACT is performing sampling or testing, a certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

B.2 Testing

(1) Conform to ASTM D2950 and CMM 8.15 for density testing and gauge monitoring methods. Perform nuclear gauge measurements using gamma radiation in the backscatter position. Perform each test for 4 minutes of nuclear gauge count time.

B.3 Equipment

B.3.1 General

- (1) Furnish nuclear gauges from the department's approved product list at http://www.dot.wisconsin.gov/business/engrserv/approvedprod.htm.
- (2) Have the gauge calibrated by the manufacturer or an approved calibration service within 12 months of its use on the project. Retain a copy of the manufacturer's calibration certificate with the gauge.
- (3) Prior to each construction season, and following any calibration of the gauge, the contractor must perform calibration verification for each gauge using the reference blocks located in the department's central office materials laboratory. To obtain information or schedule a time to perform calibration verification, contact the department's Radiation Safety Officer at:

Materials Management Section

3502 Kinsman Blvd. Madison, Wisconsin 53704 Telephone: (608) 243-5998

B.3.2 Comparison of Nuclear Gauges

B.3.2.1 Comparison of QC and QV Nuclear Gauges

- (1) Select a representative section of the compacted pavement prior to or on the first day of paving for the comparison process. The section does not have to be the same mix design.
- (2) Compare the 2 or more gauges used for density measurement (QC, QV). The QC and QV gauge operators will perform the comparison on 5 test sites jointly located. Record each density measurement of each test site for the QC, QV and back up gauges.
- (3) Calculate the average of the difference in density of the 5 test sites between the QC and QV gauges. Locate an additional 5 test sites if the average difference exceeds 1.0 lb/ft³. Measure and record the density on the 5 additional test sites for each gauge.
- (4) Calculate the average of the difference in density of the 10 test sites between the QC and QV gauges. Replace one or both gauges if the average difference of the 10 tests exceeds 1.0 lb/ft³ and repeat comparison process from B.3.2.1 (2).
- (5) Furnish one of the QC gauges passing the allowable comparison tolerances to perform density testing on the project.

B.3.2.2 Comparison Monitoring

- (1) After performing the gauge comparison specified in B.3.2.1, establish a project reference site approved by the department. Clearly mark a flat surface of concrete or asphalt or other material that will not be disturbed during the duration of the project. Perform comparison monitoring of the QC, QV, and all back-up gauges at the project reference site.
- (2) Conduct an initial 10 density tests with each gauge on the project reference site and calculate the average value for each gauge to establish the gauge's reference value. Use the gauge's reference value as a control to monitor the calibration of the gauge for the duration of the project.
- (3) Check each gauge on the project reference site a minimum of one test per day if paving on the project. Calculate the difference between the gauge's daily test result and its reference value. Investigate if a daily test result is not within 1.5 lb/ft³ of its reference value. Conduct 5 additional tests at the reference site once the cause of deviation is corrected. Calculate and record the average of the 5 additional tests. Remove the gauge from the project if the 5-test average is not within 1.5 lb/ft³ of its reference value established in B.3.2.2(2).
- (4) Maintain the reference site test data for each gauge at an agreed location.

B.4 Quality Control Testing and Documentation

B.4.1 Lot and Sublot Requirements

B.4.1.1 Mainline Traffic Lanes, Shoulders, and Appurtenances

- (1) A lot consists of the tonnage placed each day for each layer and target density specified in standard spec 460.3.3.1. A lot may include partial sublots.
- (2) Divide the roadway into sublots. A sublot is 1500 lane feet for each layer and target density.
- (3) A sublot may include HMA placed on more than one day of paving. Test sublots at the pre-determined random locations regardless of when the HMA is placed. No additional testing is required for partial sublots at the beginning or end of a day's paving.
- (4) If a resulting partial quantity at the end of the project is less than 750 lane feet, include that partial quantity with the last full sublot of the lane. If a resulting partial quantity at the end of the project is 750 lane feet or more, create a separate sublot for that partial quantity.
- (5) Randomly select test locations for each sublot as specified in CMM 8.15 prior to paving and provide a copy to the engineer. Locate and mark QC density test sites when performing the tests. Perform density tests prior to opening the roadway to traffic.
- (6) Use Table 1 to determine the number of tests required at each station, depending on the width of the lane being tested. When more than one test is required at a station, offset the tests 10 feet longitudinally from one another to form a diagonal testing row across the lane.

Lane Width	No. of Tests	Transverse Location
5 ft or less	1	Random
Greater than 5 ft to 9 ft	2	Random within 2 equal widths
Greater than 9 ft	3	Random within 3 equal widths
	Tab	le 1

B.4.1.2 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

- (1) A lot represents a combination of the total daily tonnage for each layer and target density.
- (2) Each side road, crossover, turn lane, ramp, and roundabout must contain at least one sublot for each layer.
- (3) If a side road, crossover, turn lane, or ramp is 1500 feet or longer, determine sublots and random test locations as specified in B.4.1.1.
- (4) If a side road, crossover, turn lane, or ramp is less than 1500 feet long, determine sublots using a maximum of 750 tons per sublot and perform the number of random tests as specified in Table 2.

Side Roads, Turn Lanes, Crossovers, Ramps, Roundabouts: Sublot/Layer tonnage of Tests Required

25 to 100 tons	1
101 to 250 tons	3
251 to 500 tons	5
501 to 750 tons	7

Table 2

B.4.2 Pavement Density Determination

B.4.2.1 Mainline Traffic Lanes and Appurtenances

- (1) Calculate the average sublot densities using the individual test results in each sublot.
- (2) If all sublot averages are no more than one percent below the target density, calculate the daily lot density by averaging the results of each random QC test taken on that day's material.
- (3) If any sublot average is more than one percent below the target density, do not include the individual test results from that sublot when computing the lot average density and remove that sublot's tonnage from the daily quantity for incentive. The tonnage from any such sublot is subject to disincentive pay according to standard spec 460.5.2.2.

B.4.2.2 Mainline Shoulders

B.4.2.2.1 Width Greater Than 5 Feet

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.2.2 Width of 5 Feet or Less

- (1) If all sublot test results are no more than 3.0 percent below the minimum target density, calculate the daily lot density by averaging all individual test results for the day.
- (2) If a sublot test result is more than 3.0 percent below the target density, the engineer may require the unacceptable material to be removed and replaced with acceptable material or allow the nonconforming material to remain in place with a 50 percent pay reduction. Determine the limits of the unacceptable material according to B.4.3.

B.4.2.3 Side Roads, Crossovers, Turn Lanes, Ramps, and Roundabouts

(1) Determine the pavement density as specified in B.4.2.1.

B.4.2.4 Documentation

(1) Document QC density test data as specified in CMM 8.15. Provide the engineer with the data for each lot within 24 hours of completing the QC testing for the lot.

B.4.3 Corrective Action

- (1) Notify the engineer immediately when an individual test is more than 3.0 percent below the specified minimum in standard spec 460.3.3.1. Investigate and determine the cause of the unacceptable test result.
- (2) The engineer may require unacceptable material specified in B.4.3(1) to be removed and replaced with acceptable material or allow the nonconforming material to remain in

place with a 50 percent pay reduction. Determine limits of the unacceptable area by measuring density of the layer at 50-foot increments both ahead and behind the point of unacceptable density and at the same offset as the original test site. Continue testing at 50-foot increments until a point of acceptable density is found as specified in standard spec 460.5.2.2(1). Removal and replacement of material may be required if extended testing is in a previously accepted sublot. Testing in a previously accepted sublot will not be used to recalculate a new lot density.

- (3) Compute unacceptable pavement area using the product of the longitudinal limits of the unacceptable density and the full sublot width within the traffic lanes or shoulders.
- (4) Retesting and acceptance of replaced pavement will be according to standard spec 105.3.
- (5) Tests indicating density more than 3.0 percent below the specified minimum, and further tests taken to determine the limits of unacceptable area, are excluded from the computations of the sublot and lot densities.
- (6) If 2 consecutive sublot averages within the same paving pass and same target density are more than one percent below the specified target density, notify the engineer and take necessary corrective action. Document the locations of such sublots and the corrective action that was taken.

B.5 Department Testing B.5.1 Verification Testing

- (1) The department will have a HTCP certified technician, or ACT working under a certified technician, perform verification testing. The department will test randomly at locations independent of the contractor's QC work. The department will perform verification testing at a minimum frequency of 10 percent of the sublots and a minimum of one sublot per mix design. The sublots selected will be within the active work zone. The contractor will supply the necessary traffic control for the department's testing activities.
- (2) The QV tester will test each selected sublot using the same testing requirements and frequencies as the QC tester.
- (3) If the verification sublot average is not more than one percent below the specified minimum target density, use the OC tests for acceptance.
- (4) If the verification sublot average is more than one percent below the specified target density, compare the QC and QV sublot averages. If the QV sublot average is within 1.0 lb/ft³ of the QC sublot average, use the QC tests for acceptance.
- (5) If the first QV/QC sublot average comparison shows a difference of more than 1.0 lb/ft³ each tester will perform an additional set of tests within that sublot. Combine the additional tests with the original set of tests to compute a new sublot average for each tester. If the new QV and QC sublot averages compare to within 1.0 lb/ft³, use the original QC tests for acceptance.

(6) If the QV and QC sublot averages differ by more than 1.0 lb/ft³ after a second set of tests, resolve the difference with dispute resolution specified in B.6. The engineer will notify the contractor immediately when density deficiencies or testing precision exceeding the allowable differences are observed.

B.5.2 Independent Assurance Testing

(1) Independent assurance is unbiased testing the department performs to evaluate the department's verification and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform the independent assurance review according to the department's independent assurance program.

B.6 Dispute Resolution

- (1) The testers may perform investigation in the work zone by analyzing the testing, calculation, and documentation procedures. The testers may perform gauge comparison according to B.3.2.1.
- (2) The testers may use comparison monitoring according to B.3.2.2 to determine if one of the gauges is out of tolerance. If a gauge is found to be out of tolerance with its reference value, remove the gauge from the project and use the other gauge's test results for acceptance.
- (3) If the testing discrepancy cannot be identified, the contractor may elect to accept the QV sublot density test results or retesting of the sublot in dispute within 48 hours of paving. Traffic control costs will be split between the department and the contractor.
- (4) If investigation finds that both gauges are in error, the contractor and engineer will reach a decision on resolution through mutual agreement.

B.7 Acceptance

(1) The department will not accept QMP HMA Pavement Nuclear Density if a non-compared gauge is used for contractor QC tests.

C (Vacant)

D (Vacant)

E Payment

E.1 QMP Testing

(1) Costs for all sampling, testing, and documentation required under this special provision are incidental to the work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the Non-performance of QMP administrative item.

E.2 Disincentive for HMA Pavement Density

(1) The department will administer density disincentives according to standard spec 460.5.2.2.

E.3 Incentive for HMA Pavement Density

(1) The department will administer density incentives according to standard spec 460.5.2.3.

stp-460-020 (20161130)

11. Select Borrow, Item 208.1100

This work shall be according to the pertinent requirements of standard spec 208 and as provided here.

Select borrow material shall conform to requirements of standard spec 209.2.2 for Grade 2 material.

12. Base Aggregate Dense 1 ¹/₄-Inch, Item 305.0120

This work shall be according to the pertinent requirements of standard spec 305 and as provided here.

Base Aggregate Dense 1 ¼" (B.A.D. 1 ¼") may be supplied by mobile track crushing, stationary crushing and hauling, or by virgin pit aggregate. Regardless of the method, the item of removing pavement (204.0100) for existing asphaltic and concrete pavements will apply and be paid.

Measurement for B.A.D. 1 ¼" under this contract will be based on converting the square yards of removed pavement to a volume using the depths noted on the plans. The Engineer will verify Pavement depths throughout the operation and adjust if necessary. Cubic yard volumes of B.A.D. 1 ¼" will be converted to tons by a factors of 1.75 tons / cy.

13. Adjusting Steel Plate Beam Guard, Item 614.0400

This work shall be according to the pertinent requirements of standard spec 614 and as provided here.

The steel plate beam guard and offset blocks shall be removed from the posts and stockpiled during the pavement removal and base aggregate dense construction operations. Steel plate beam guard and offset blocks shall be stockpiled at least 30 feet from the edge of traveled way. Removal, stockpiling, and reinstallation of steel plate beam guard and offset blocks is incidental to this item.

14. Traffic Control Signs PCMS, Item 643.1050

This work shall be according to the pertinent requirements of standard spec 638 and as provided here.

Place two portable changeable message signs as shown on the plans starting April 1, 2019 until the detour is complete and traffic is rerouted to USH 63. From April 1, 2019 until the detour begins, display the following two-frame message:

Frame 1: HWY 63 Frame 2: STARTS

DETOUR [MONTH DAY]

Once the detour on USH 63 has begun, the contractor shall update each PCMS at 3:00 PM of each work day to update local motorists as to the progress of their work. The contractor shall display the following two-frame message:

Frame 1: HWY 63 Frame 2: [SIDEROAD

OPEN TO NAME]

15. Locating No-Passing Zones, Item 648.0100

For this project, the spotting sight distance in areas with a 55 mph posted speed limits is 0.21 miles (1108 feet).

648-005 (20060512)

16. Material Transfer Vehicle, Item SPV.0105.01

A Description

This special provision describes furnishing Material Transfer Vehicle (MTV) and an operator for use on this project during HMA upper layer paving operations, as shown in the plans or as directed by the engineer, and as hereinafter provided.

B Materials

The MTV shall be self-propelled, remix and maintain constant temperature, and continually feed the paver hopper. The storage capacity shall be adequate to provide continuous forward movement of the paver. The paver speed shall be coordinated to match the delivery of material and capacity of the MTV to limit stopping of the paver.

C Construction

An operator shall remain with the vehicle at all times during moving operations and the paver's hopper shall remain full at all times to avoid segregation of coarse aggregates. No placement of HMA upper layer pavement shall be allowed without the use of the MTV.

D Measurement

The department will measure Material Transfer Vehicle by the lump sum for each material transfer vehicle, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBERDESCRIPTIONUNITSPV.0105.01Material Transfer VehicleLS

Payment is full compensation for deploying the equipment and its operator; and for furnishing all labor, tools, materials, equipment and incidentals necessary to complete the contract work.

STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. 2 Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities

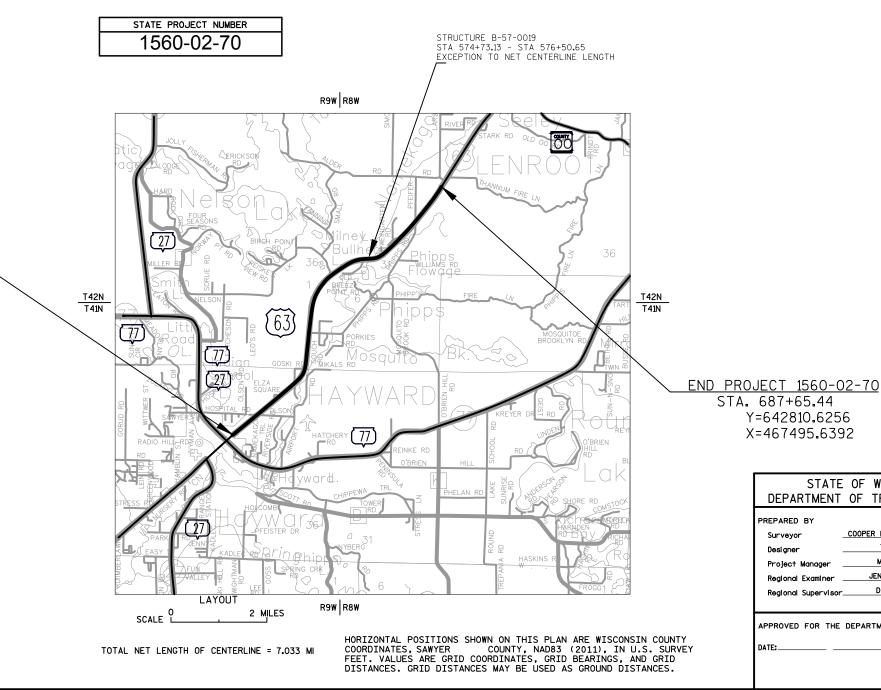
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1560-02-70

PLAN OF PROPOSED IMPROVEMENT

HAYWARD - DRUMMOND

STH 27 TO LARSEN ROAD

USH 63



SAWYER COUNTY

DESIGN DESIGNATION

Section No. 4

Section No. 5

Section No. 6

Section No. 7

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS =

A.A.D.T. 2017 = 4200 A.A.D.T. 2037 = 4650 D-H-V-= 6.0% = 59/41 = 7.0% DESIGN SPEED = 45/55 MPH

Right of Way Plat

Standard Detail Drawings

Computer Earthwork Data

PROJECT LOCATION

Plan and Profile

Cross Sections

= 640,000

CONVENTIONAL SYMBOLS

PLAN

MARSH AREA

WOODED OR SHRUB AREA

CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

PROFILE

BEGIN PROJECT 1560-02-70

Y=620736.4303

X=467495.6392

₫ Ø

STA. 314+53.82

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY COOPER ENG. & COLEMAN ENG. Surveyor MATT DICKENSON JENNIFER OLDENBURG DAVID OSTROWSKI APPROVED FOR THE DEPARTMENT

Y=642810.6256

X=467495.6392

(Sianature)

Ε

LIST OF STANDARD ABBREVIATIONS

ABUTMENT ABUT. AGG. AGGREGATE AHEAD AH. APPROXIMATE APPROX. APRON ENDWALL A.E.W. ASPHALTIC AVERAGE DAILY TRAFFIC ASPH. A.D.T. AZIMUTH AZ. BACK BK. BEG. BEGIN BENCH MARK B.M. CENTER LINE CONCRETE CONSTRUCTION CONC. CONST. CO. C.T.H. COLINTY COUNTY TRUNK HIGHWAY X-SEC. CROSS SECTION CR. CFS C.Y., CU. YD. CRUSHED CUBIC FEET/SECOND
CUBIC YARD
CULVERT
CULVERT PIPE CULV. C.P. D.O.T. DEPARTMENT OF TRANSPORTATION D.H.V. DESIGN HOUR VOLUME DIA. DIRECTIONAL DISTRIBUTION DISCHARGE D. DISCH. OR DIS. EA. ELECT. EL. OR ELEV. EACH ELECTRIC ELEVATION EMB. **EMBANKMENT** EXCAVATION BELOW SUBGRADE E.B.S. EXIST. FERTILIZE FIELD ENTRANCE FINISHED FERT. F.E. FIN. FT. FOOT FLOW LINE GAUGE HORIZ. HORIZONTAL CWT. HUNDREDWEIGHT INL. LT. L.H.F. LEFT-HAND FORWARD LIN. LINEAR LIN. FT. LINEAR FOOT L.S. MAX. MAXIMUM MILE MISCELLANEOUS MI. MISC. NORTH EAST NORTH WEST N.E. N.W. PAV'T PAVEMENT
POINT OF CURVATURE
POINT OF INTERSECTION P.C. P.I. P.T. P.O.T. POINT OF TANGENCY POINT ON TANGENT POUND LB. PRIVATE ENTRANCE PROJECT RANGE PROJ. R. REQ'D REQUIRED RT. RIGHT RIGHT-HAND FORWARD R.H.F. RIGHT OF WAY RD. ROAD SHR. SHRINKAGE SL. STD. SLOPE STANDARD STANDARD
STANDARD DETAIL DRAWINGS
STATE TRUNK HIGHWAY
STATION
STRUCTURAL PLATE PIPE ARCH S.D.D. S.T.H. STA. S.P.P.A STRUCTURE SURFACE STRUCT. SURF. TEL. TELEPHONE TN. TRUCKS (PERCENT OF) ÜNCL. UNCLASSIFIED U.G. UNDERGROUND VELOCITY OR DESIGN SPEED ν̈́.c. VERTICAL CURVE

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE AND ASPHALTIC PAVEMENT ARE MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 6 INCHES IN 6 FEET.

CURVE DATA SHOWN ON THE PLAN IS "ARC DEFINITION".

CONTROL POINTS ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM SAWYER COUNTY. BENCHMARK ELEVATIONS ARE REFERENCED TO NAVD 88.

PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.

AREA CONTACTS

COUNTY

SAWYER COUNTY HWY COMMISSIONER GARY GEDART 14688W COUNTY ROAD B HAYWARD, WI 54843 PHONE: (715) 634-2691

TOWNS

TOWN OF HAYWARD JEFF HOMUTH TOWN CHAIR 15460W STH 77 E HAYWARD, WI 54843 PHONE: (715) 634-4123

TOWN OF LENROOT

GORDON CHRISTIANS TOWN CHAIR 12153 N WAGNER CIRCLE HAYWARD. WI 54843 PHONE: (715) 634-3156

WISDOT

DESIGN CONTACT

TRAVIS JENSEN WISDOT NWR SUPERIOR 1701 N. 4TH STREET SUPERIOR WI, 54880 PHONE: (715) 395-3025

WISDNR

DNR LIAISON SHAWN HASELEU WDNR - NORTHWEST DISTRICT HEADQUARTERS 810 WEST MAPLE STREET SPOONER, WI 54801

PHONE: (715) 635-4228

UTILITIES

WE ENERGIES LEWIS KNAPP 104 W SOUTH ST RICE LAKE, WI 54868 (715) 234-9605

CENTURYLINK

BRIAN HUHN 400 W 9TH ST N, STE 5A LADYSMITH, WI 54848 (715) 532-0023

XCEL ENERGY - TRANSMISSION

CHARLES DIENGER 8710 MONTICELLO LANE MAPLE GROVE, MN 55369 (651) 955-1089

XCEL ENERGY - DISTRIBUTION

KEN DISHER 16048 ELECTRICAL AVE HAYWARD, WI 54843 (715) 577-0613

NORVADO

JAMES RONDEAU 15818 RAILROAD ST HAYWARD, WI 54843 (715) 934-3303

WISCONSIN DOT RWIS PROGRAM

MIKE ADAMS RM 501 P.O. BOX 7986 MADISON. WI 53707-7986 (608) 266-5004 MICHAEL.ADAMS@DOT.WI.GOV



Call 811 3 Work Days Before You Dig or Toll Free (800) 242-8511 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

PROJECT NO: 1560-02-70

HWY: USH 63

COUNTY: SAWYER

GENERAL NOTES

PLOT BY: JORGENSON, MARY B PLOT NAME:

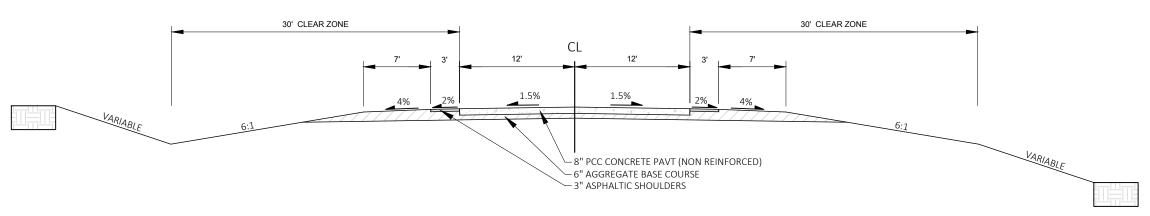
SHEET

FILE NAME: N:\PDS\C3D\15600201\SHEETSPLAN\15600201_GN.DWG

PLOT DATE : 4/14/2016 4:37 PM

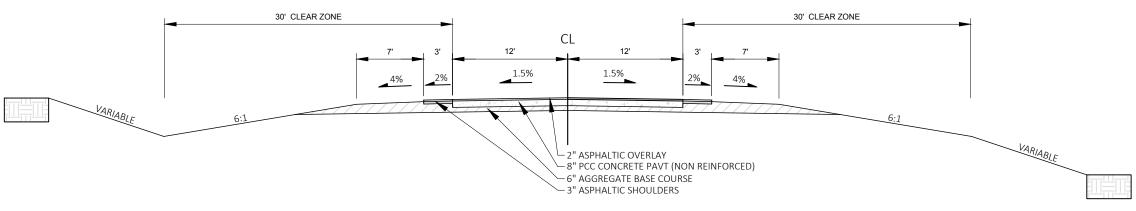
PLOT SCALE : 1" = 1

E



TYPICAL EXISTING SECTION - USH 63

STA: 314+54 - 544+00 STA: 576+50 - 687+65

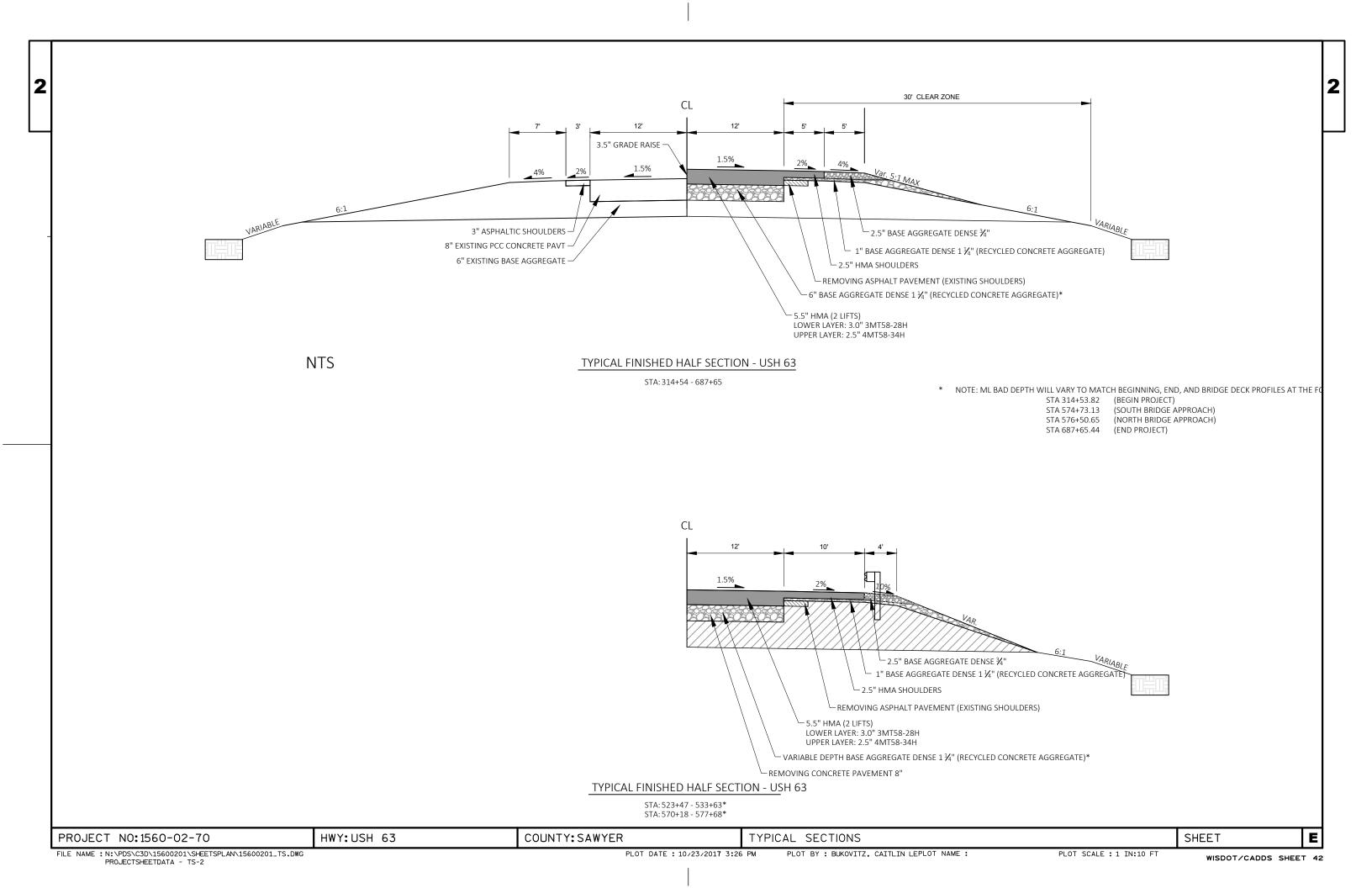


TYPICAL EXISTING SECTION - USH 63

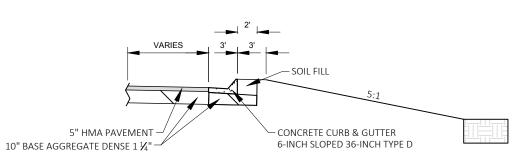
STA: 544+00 - 576+50

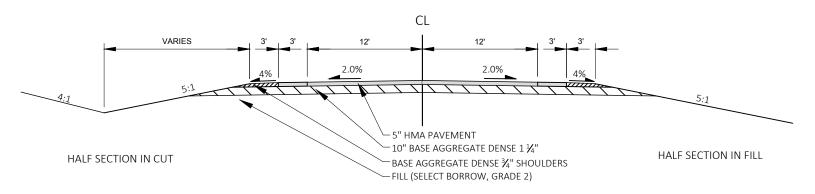
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PROJECT NO:1560-02-70 HWY:USH 63 COUNTY:SAWYER TYPICAL SECTIONS SHEET **E**



2



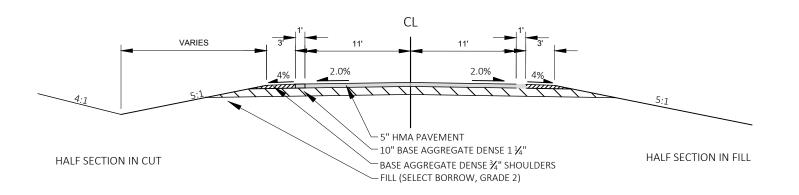


TYPICAL FINISHED SECTION - HOSPITAL ROAD

STA: 1005+32.70 - 1009+72.21

TYPICAL FINISHED RADIUS SECTION - HOSPITAL ROAD

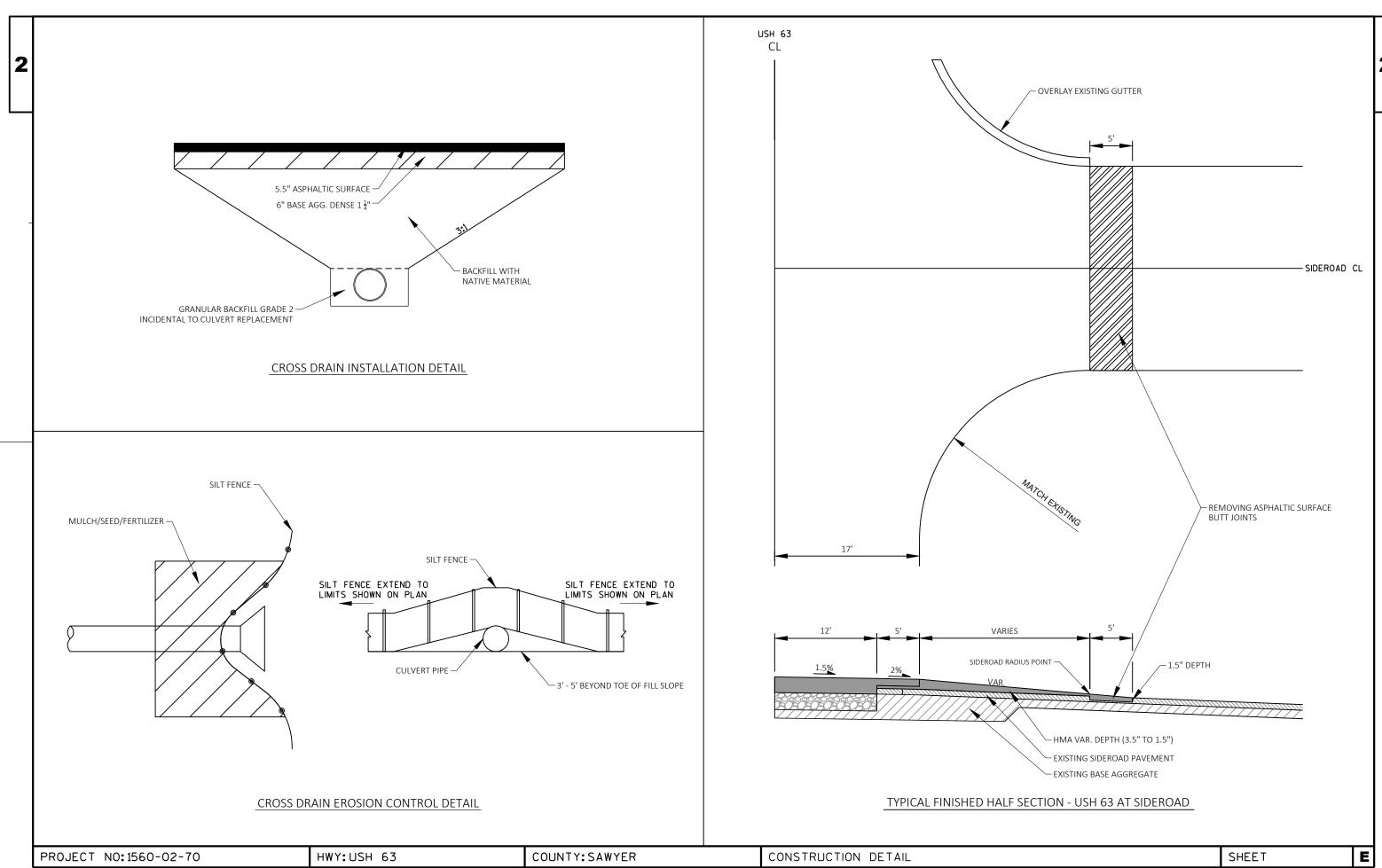
CURB AND GUTTER SECTION NW & NE RADIUS



TYPICAL FINISHED SECTION - AIRPORT ROAD

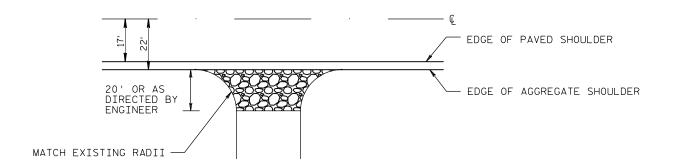
STA: 2004+68.38 - 2008+94.12

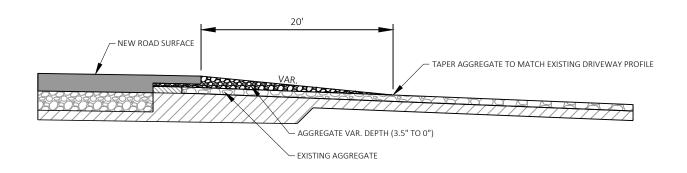
PROJECT NO:1560-02-70 HWY:USH 63 COUNTY:SAWYER PLAN: TYPICAL SECTIONS SHEET



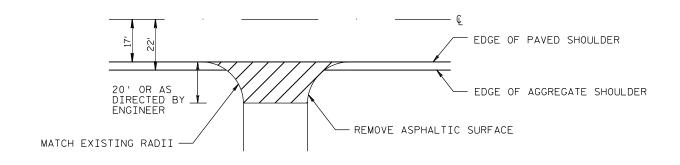
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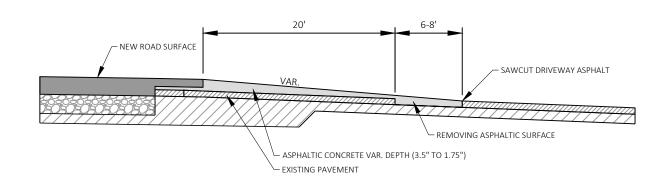
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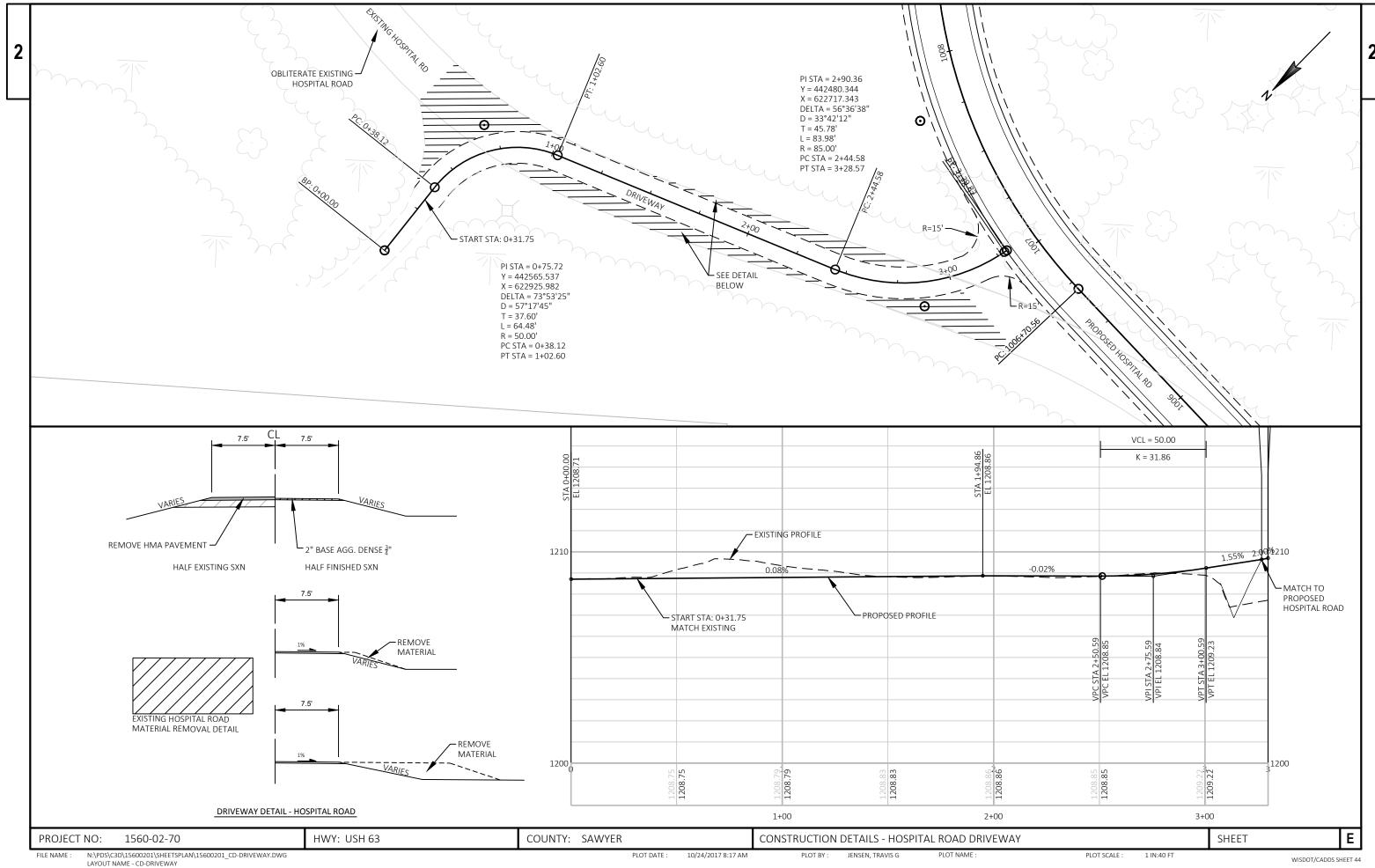
RURAL DRIVEWAY DETAIL - GRAVEL

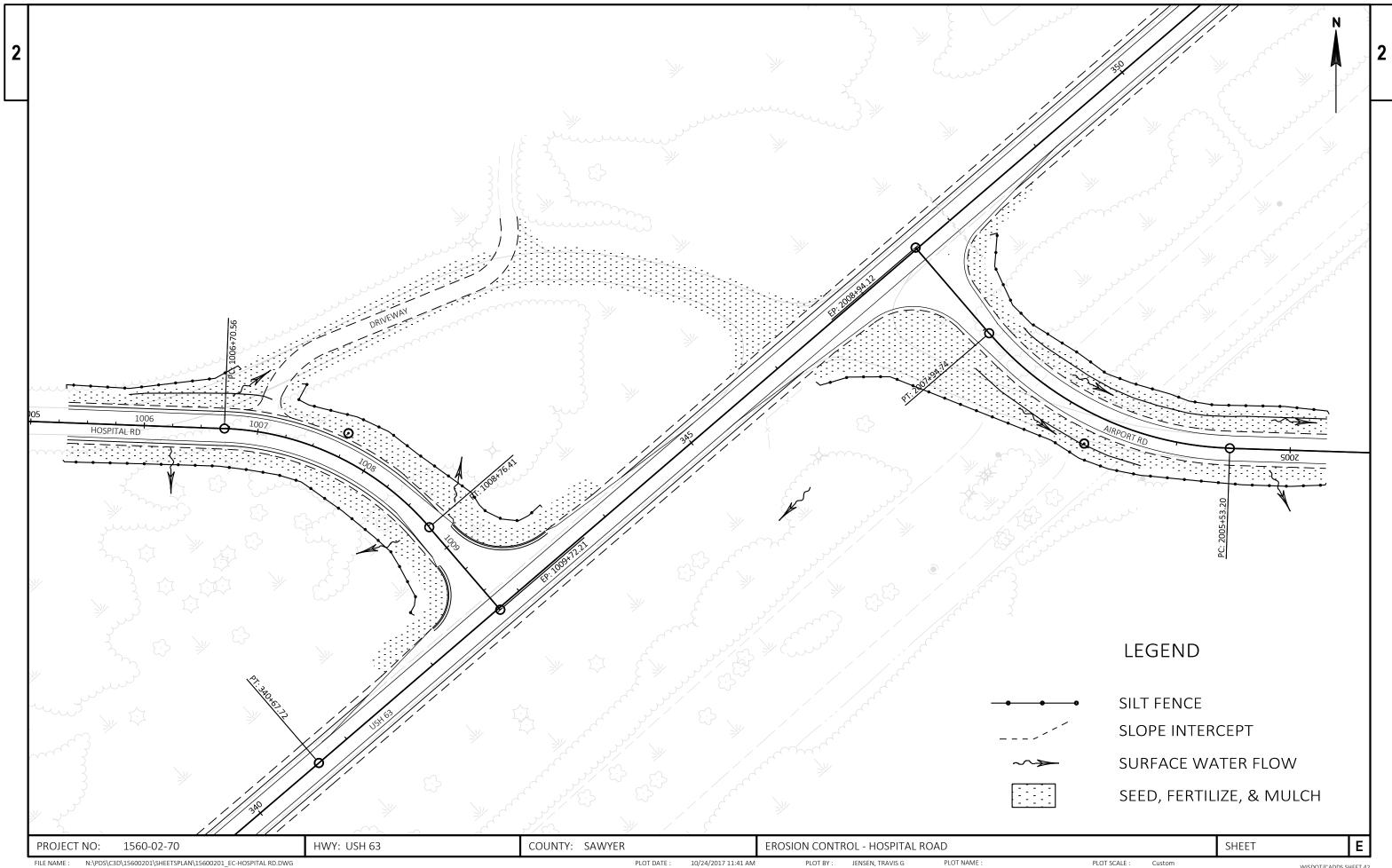




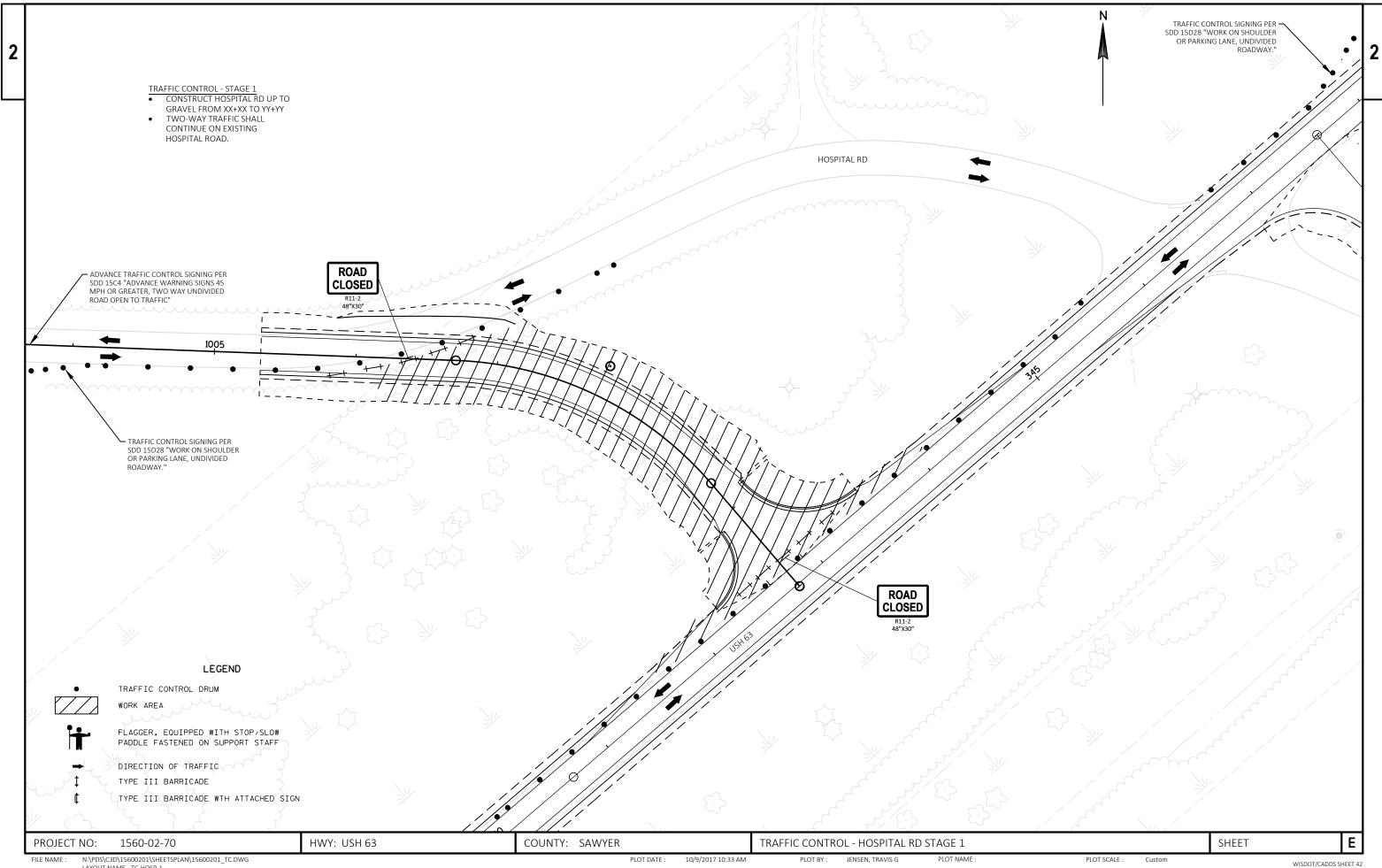
RURAL DRIVEWAY DETAIL - ASPHALT

PROJECT NO:1560-02-70 HWY:USH 63 COUNTY:SAWYER CONSTRUCTION DETAIL SHEET **E**

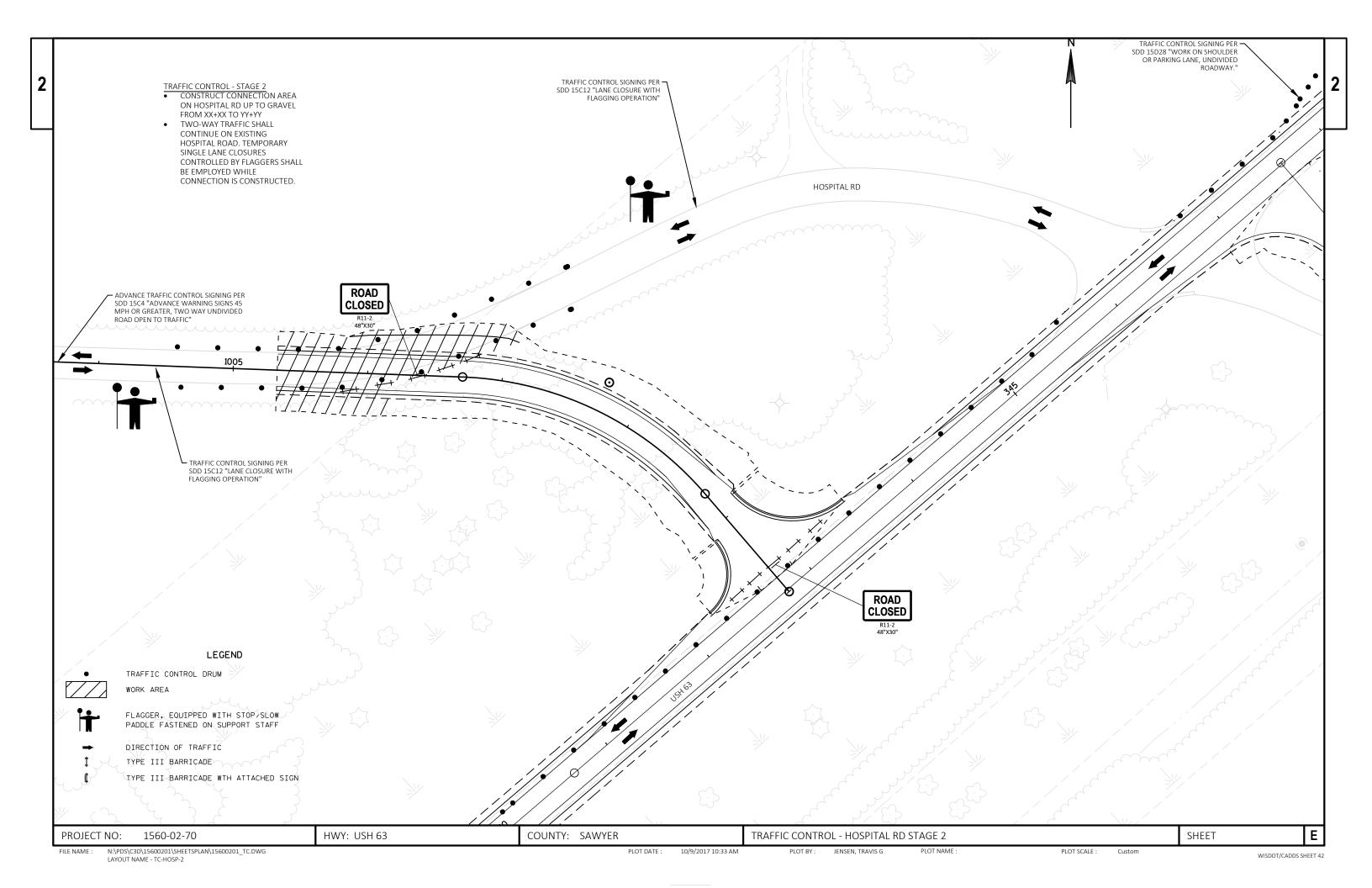


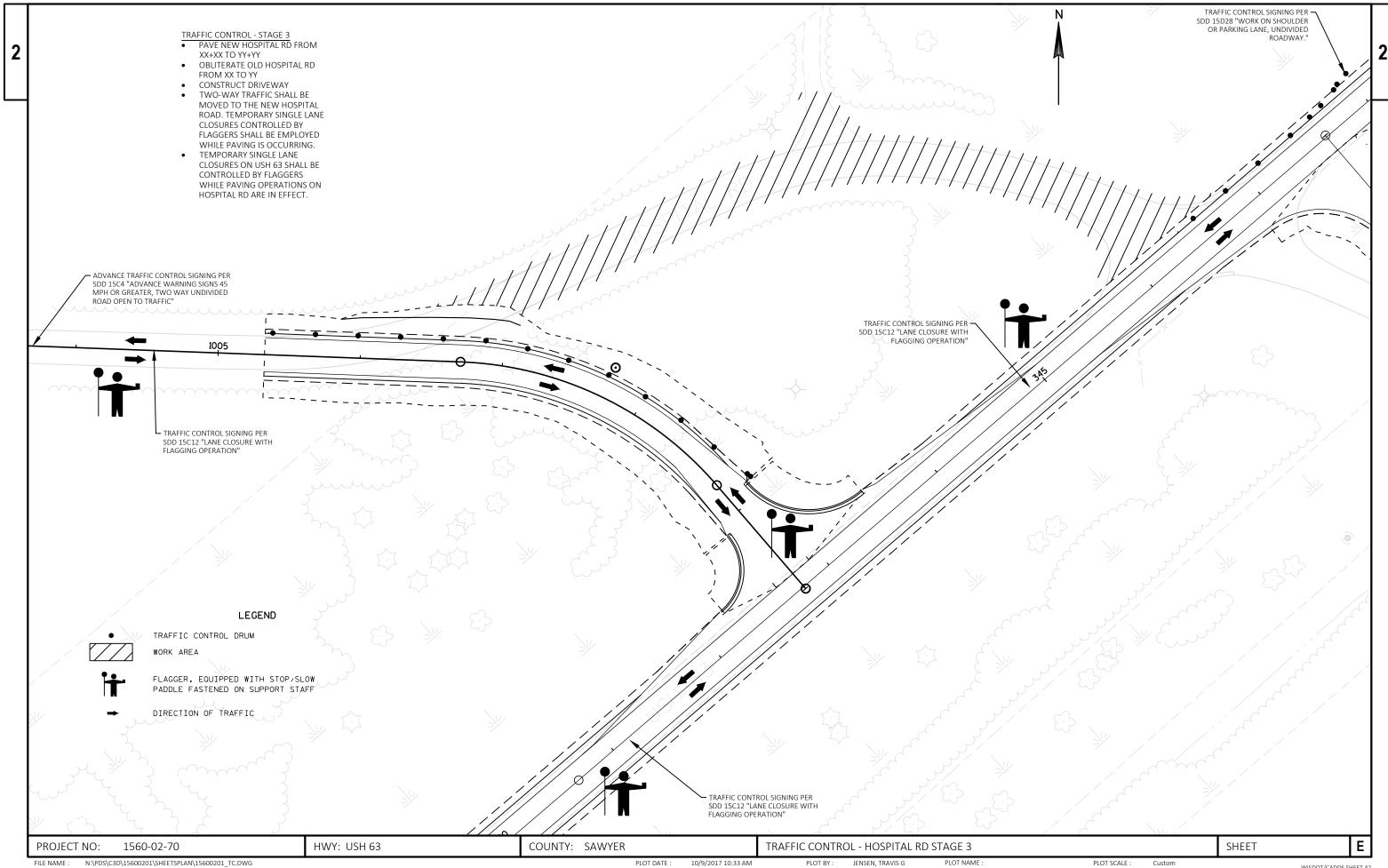


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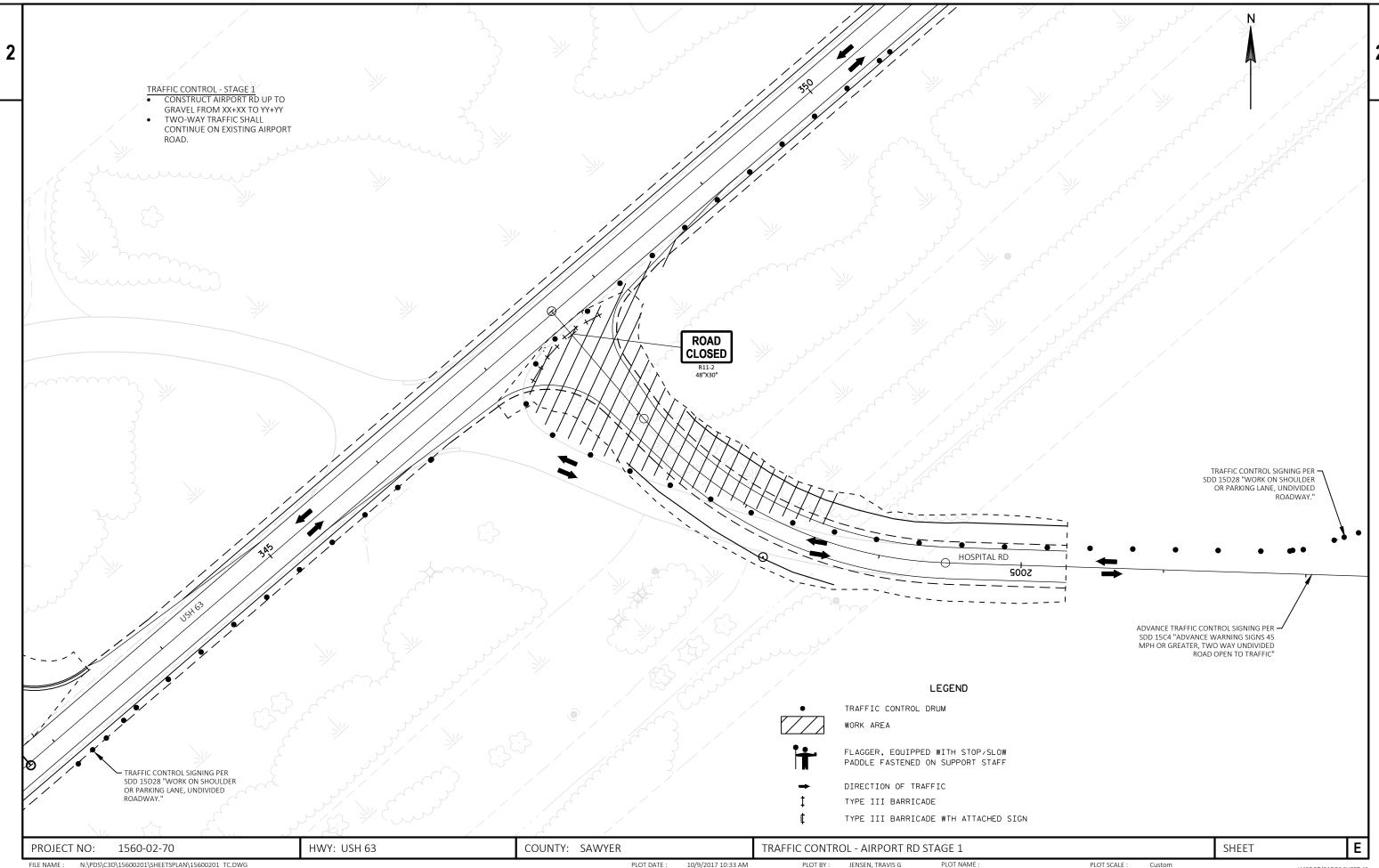


N:\PDS\C3D\15600201\SHEETSPLAN\15600201_TC.DWG LAYOUT NAME - TC-HOSP-1 PLOT DATE :

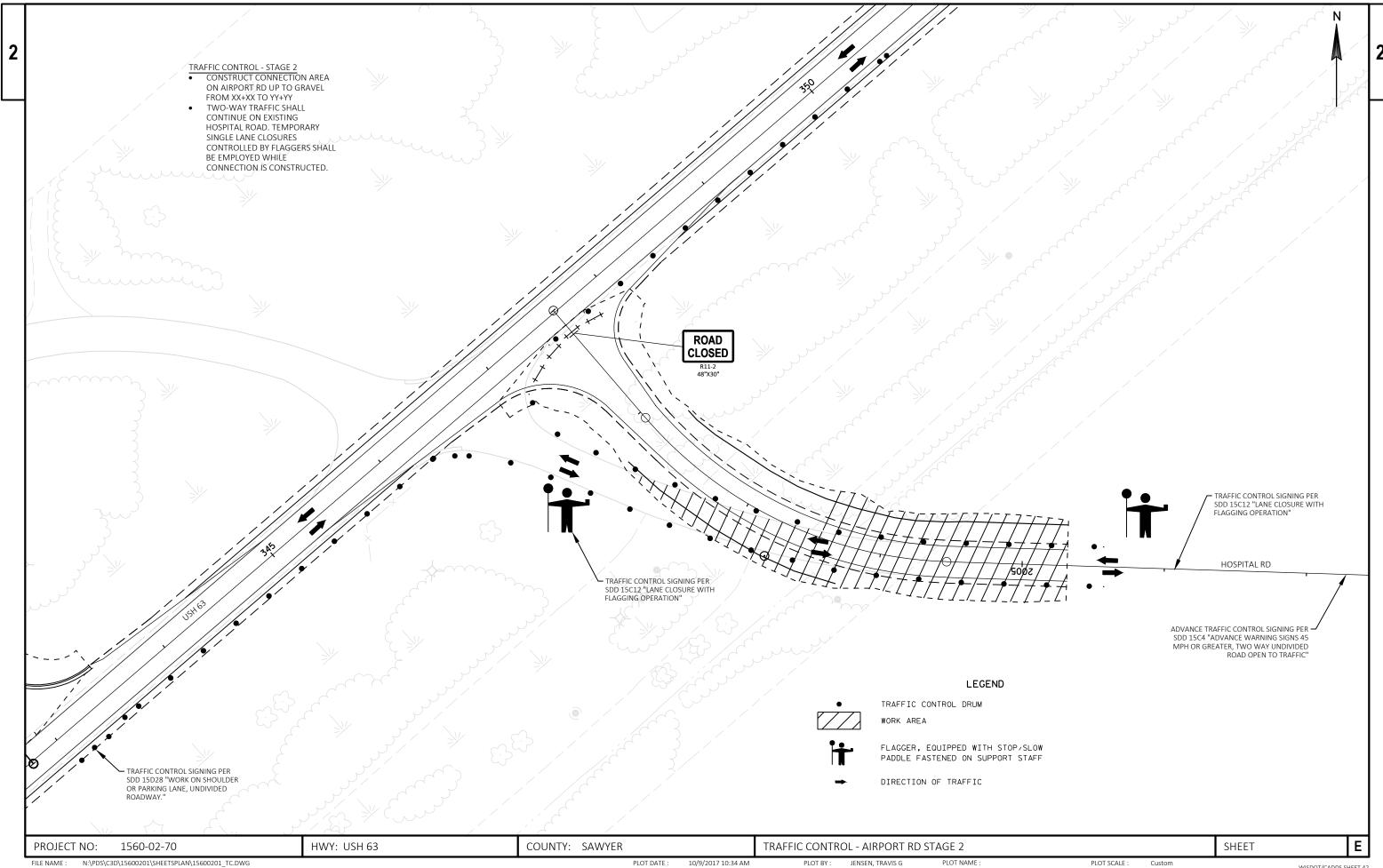




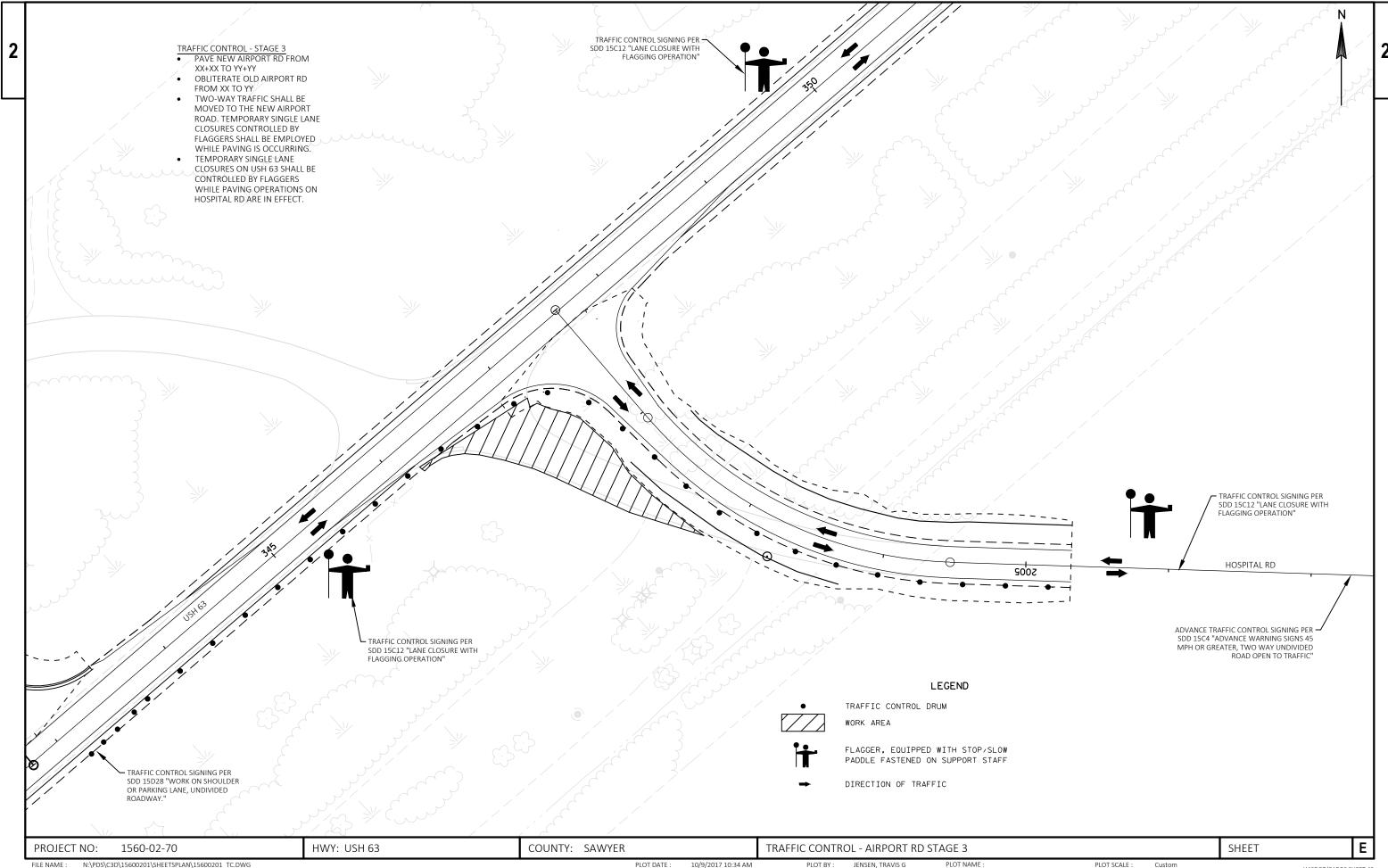
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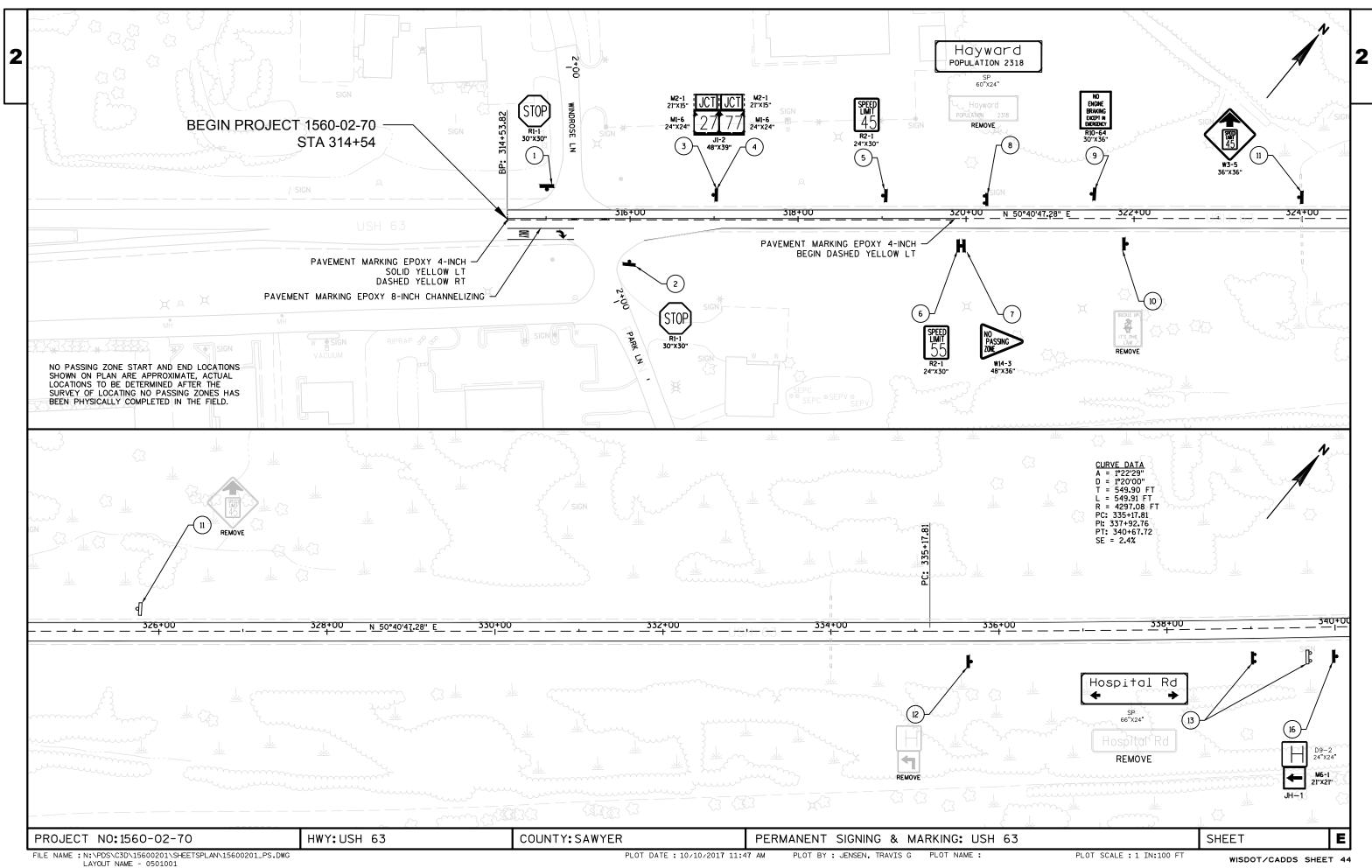
N:\PDS\C3D\15600201\SHEETSPLAN\15600201_TC.DWG LAYOUT NAME - TC-AIR-1 PLOT DATE : 10/9/2017 10:33 AM JENSEN, TRAVIS G PLOT SCALE : WISDOT/CADDS SHEET 42

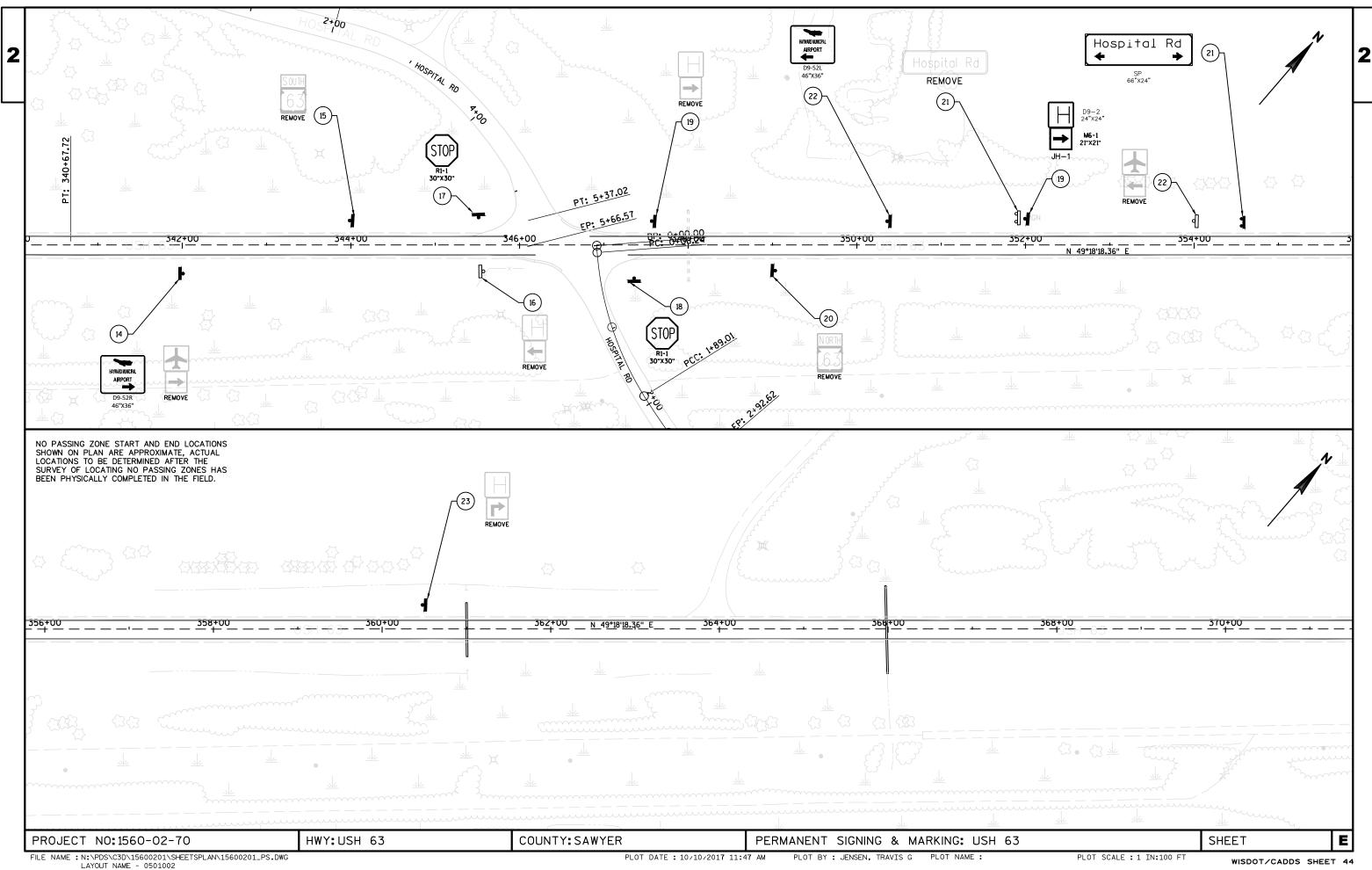


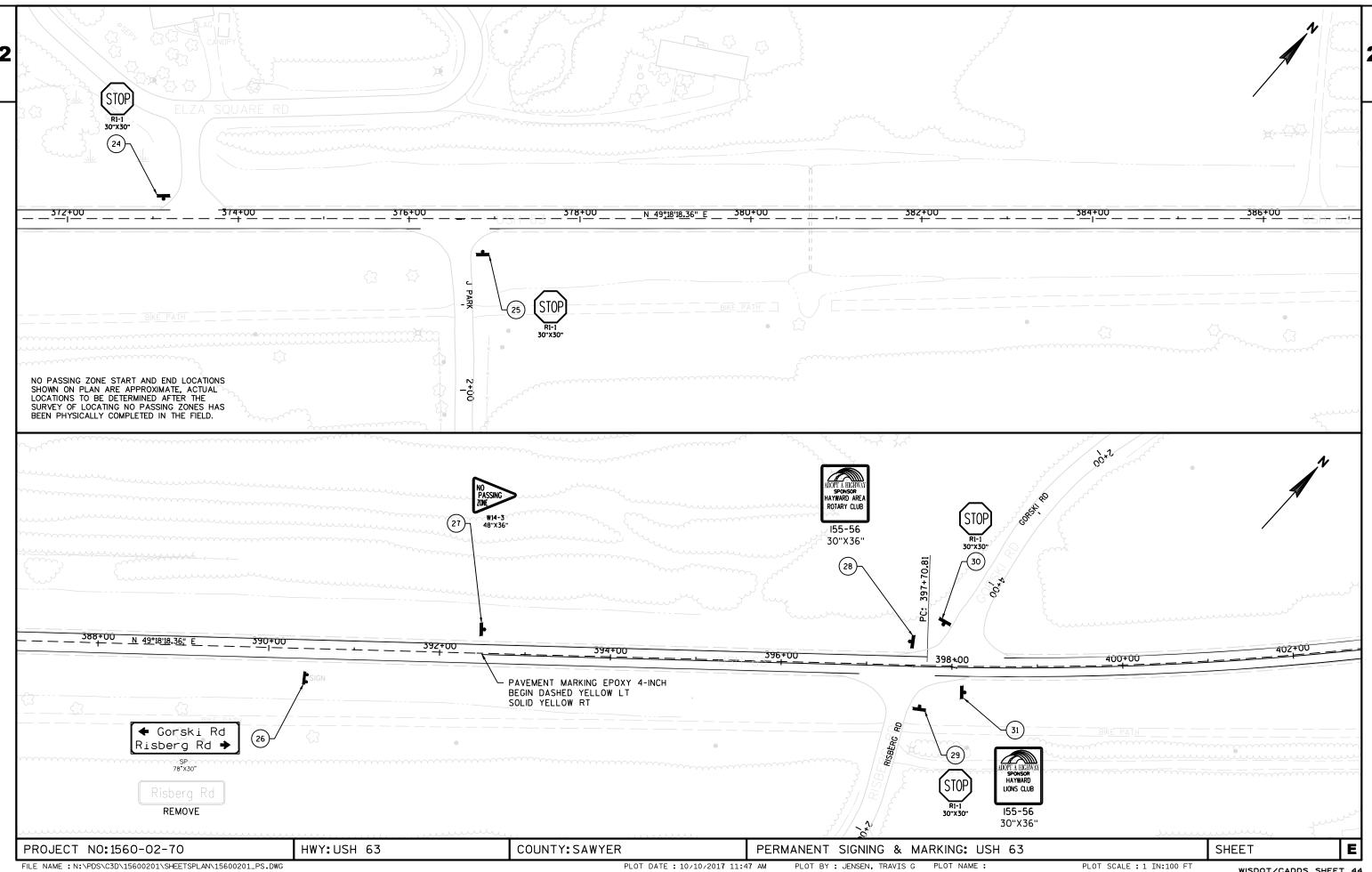
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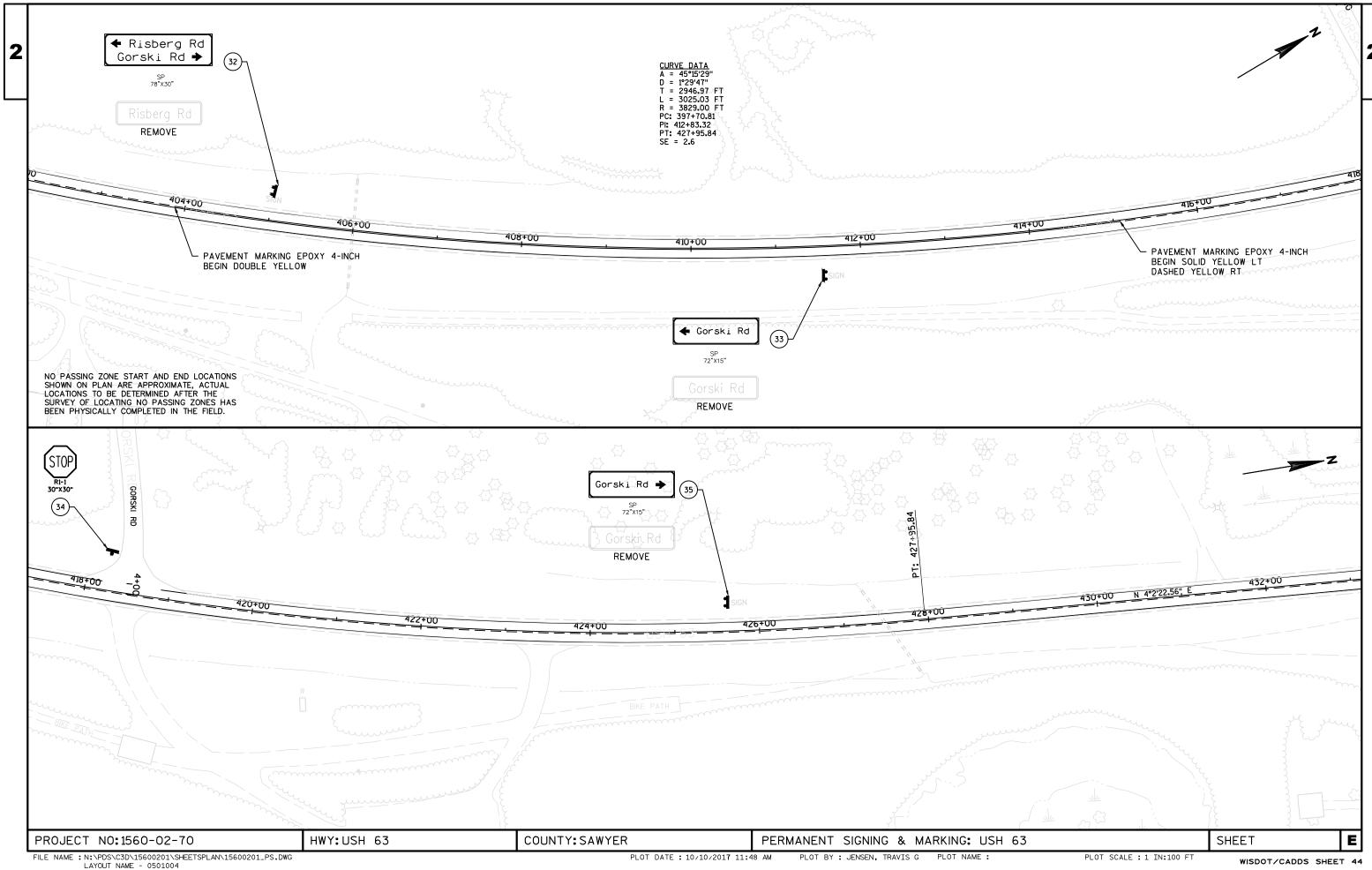


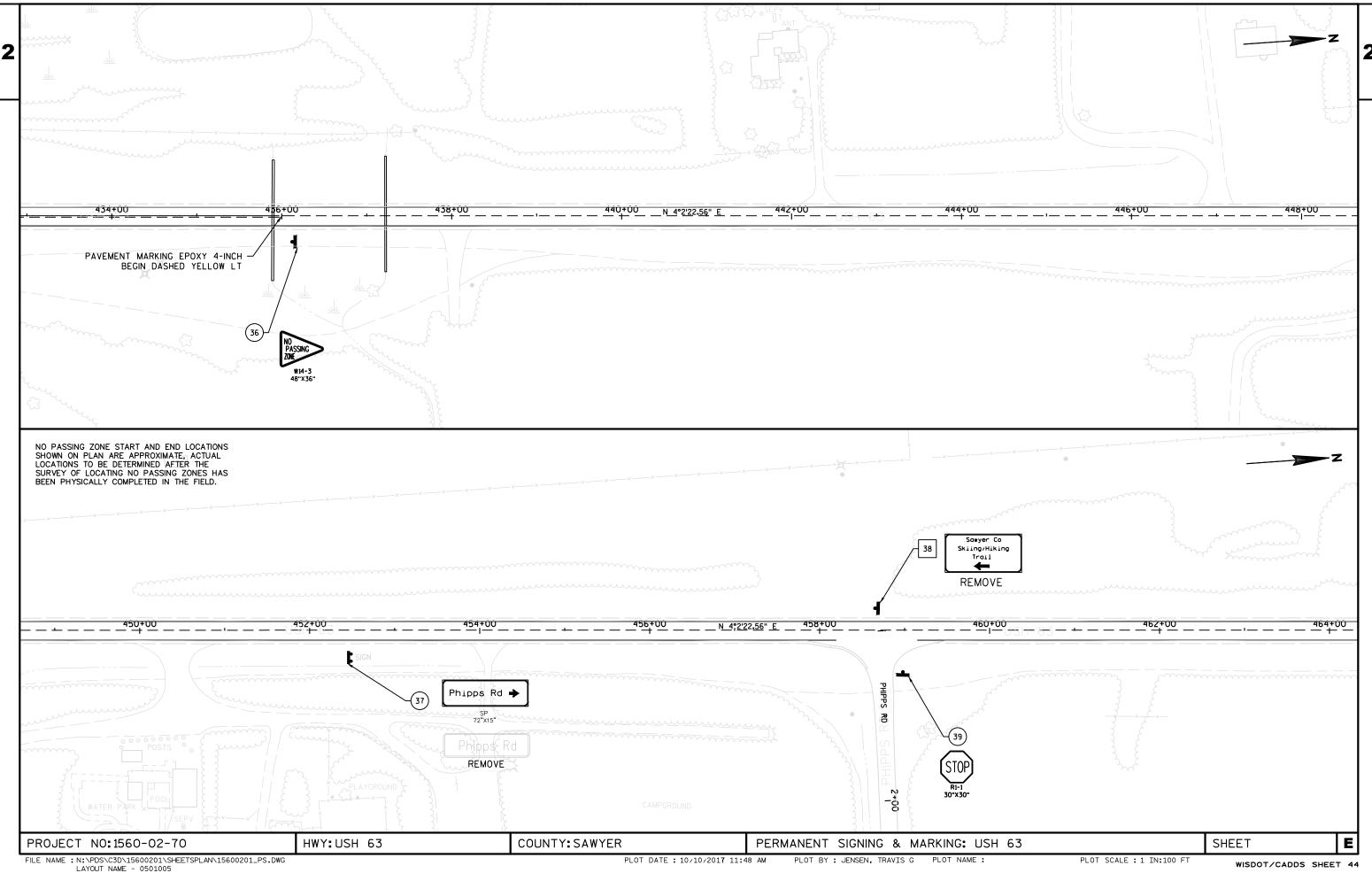
N:\PDS\C3D\15600201\SHEETSPLAN\15600201_TC.DWG LAYOUT NAME - TC-AIR-3 PLOT DATE : 10/9/2017 10:34 AM JENSEN, TRAVIS G PLOT SCALE : WISDOT/CADDS SHEET 42

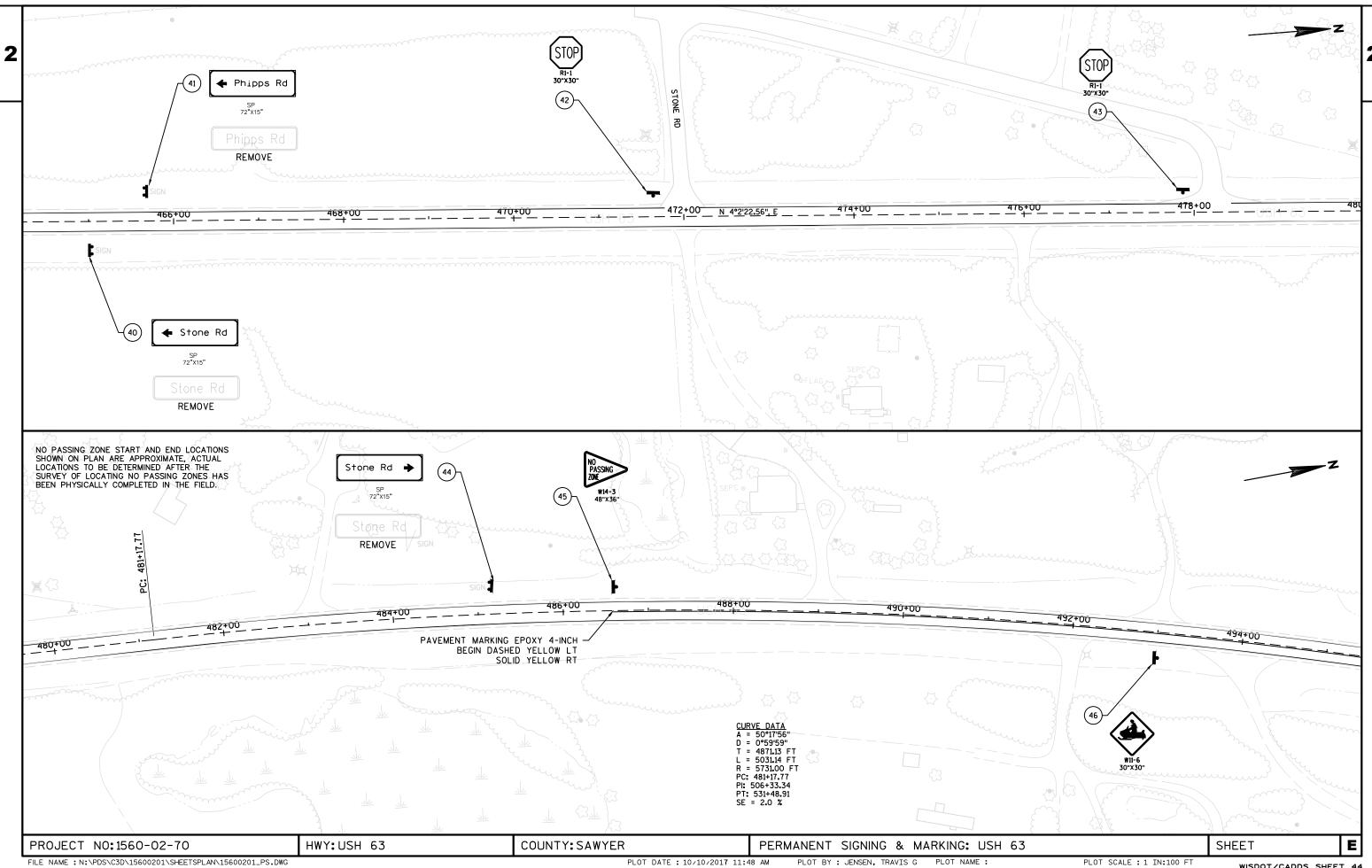


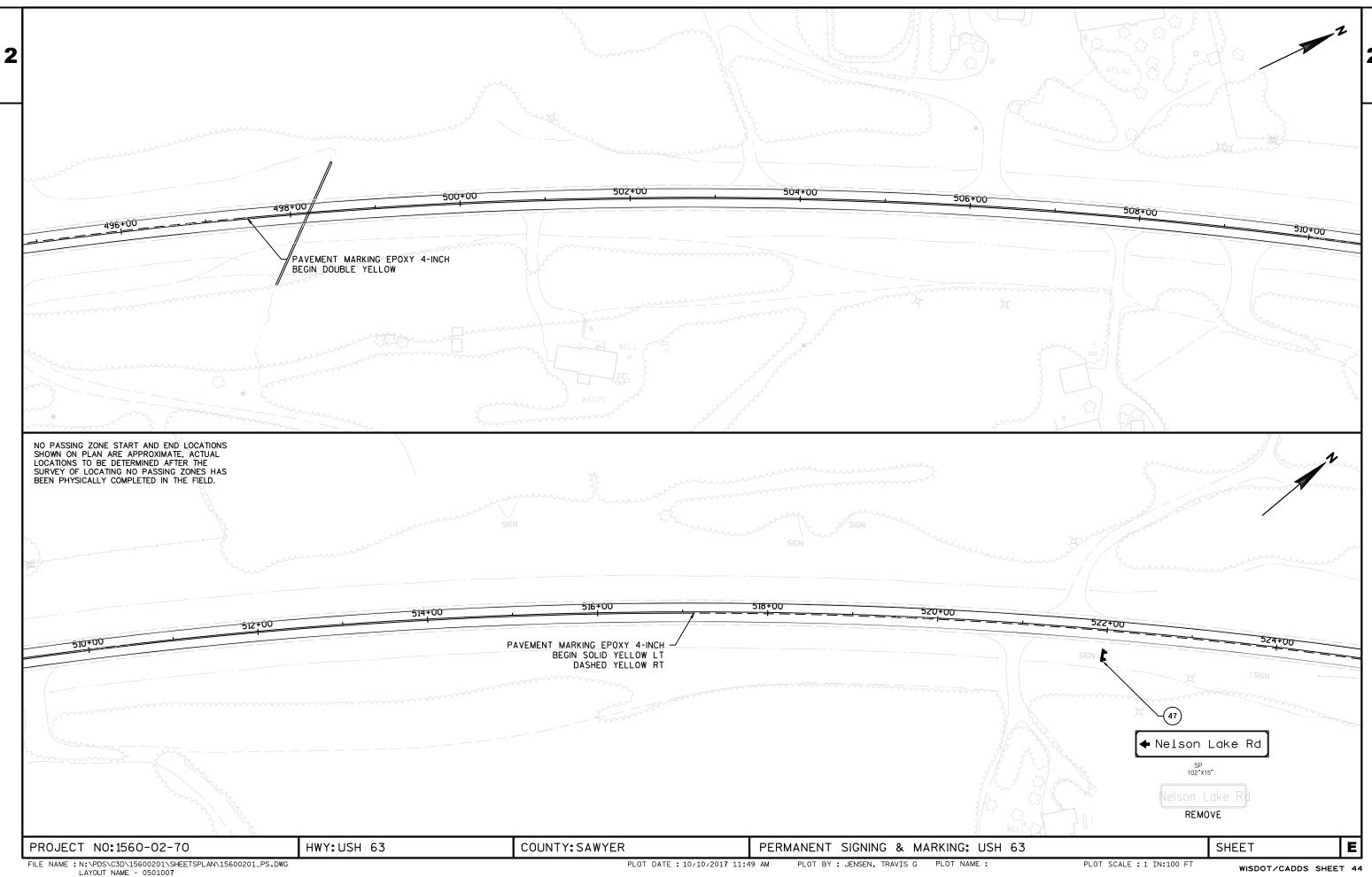


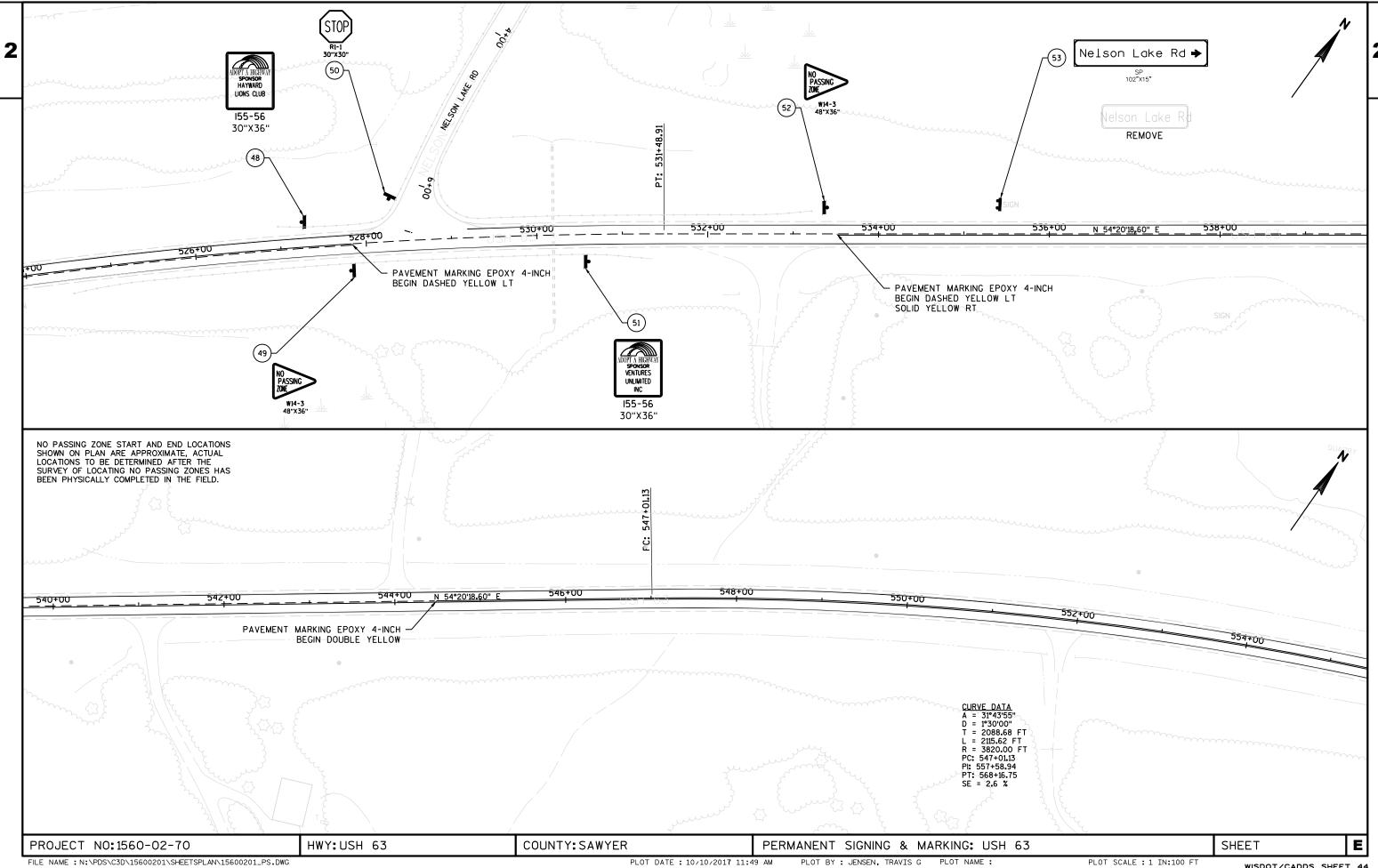


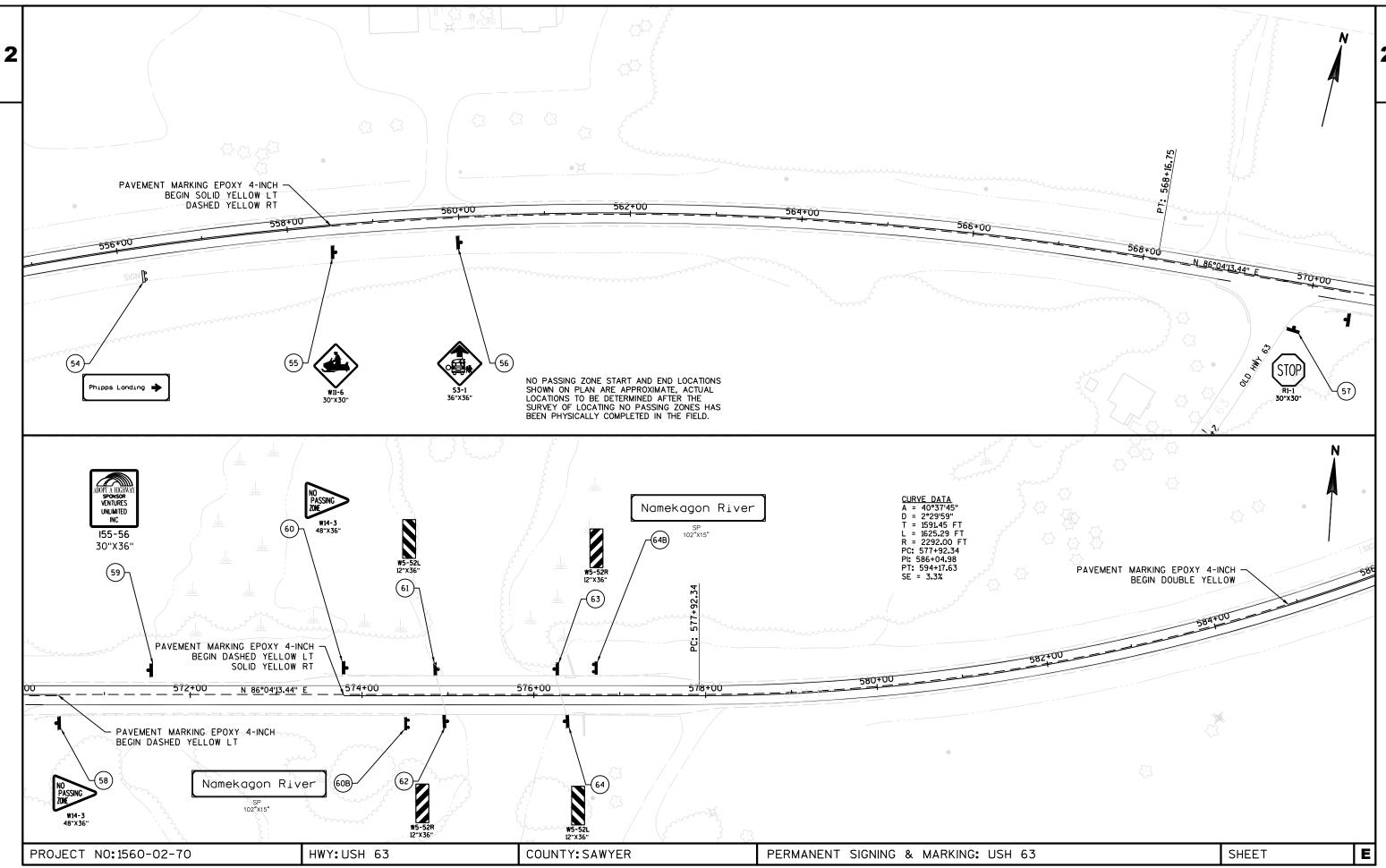


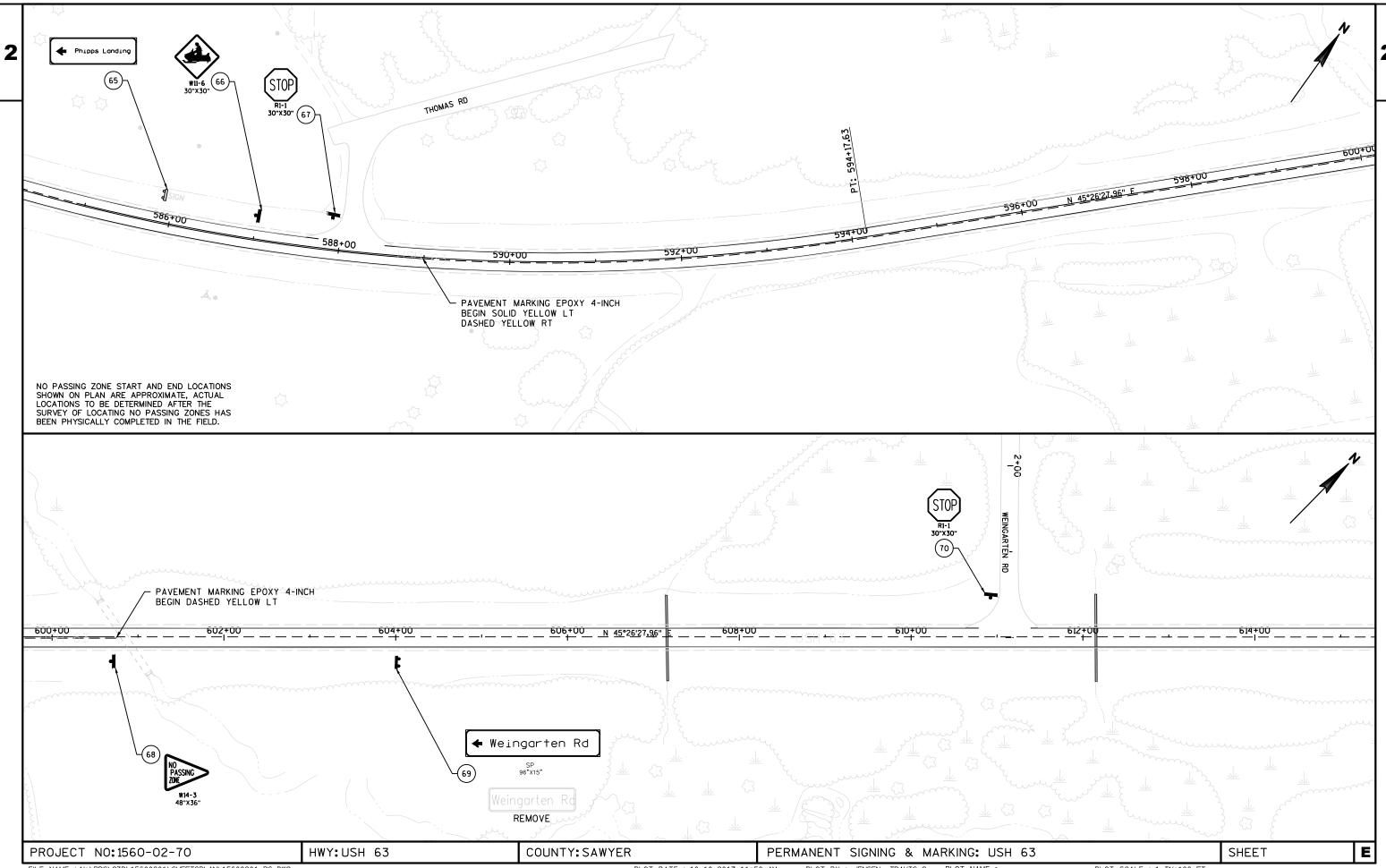


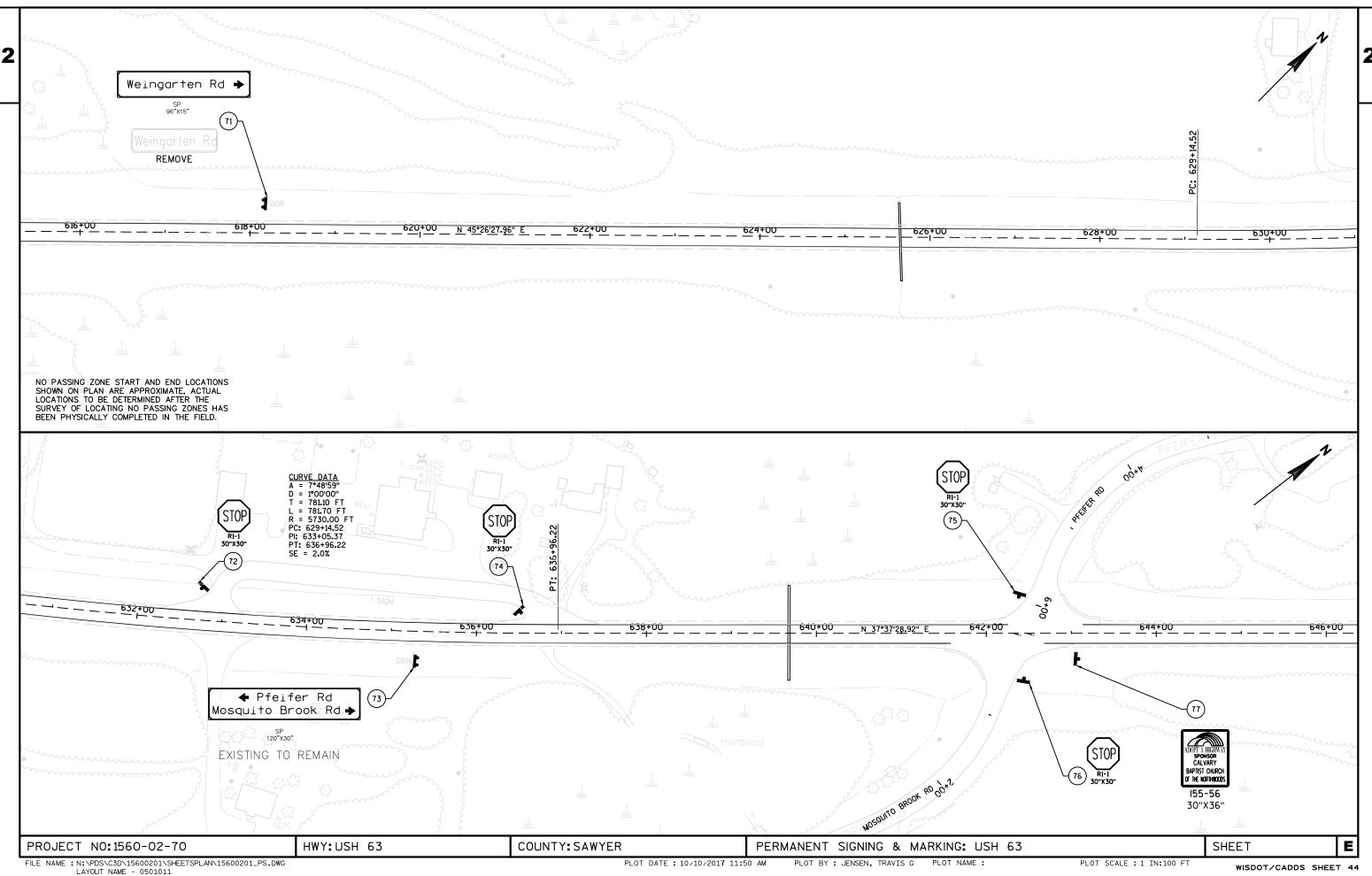


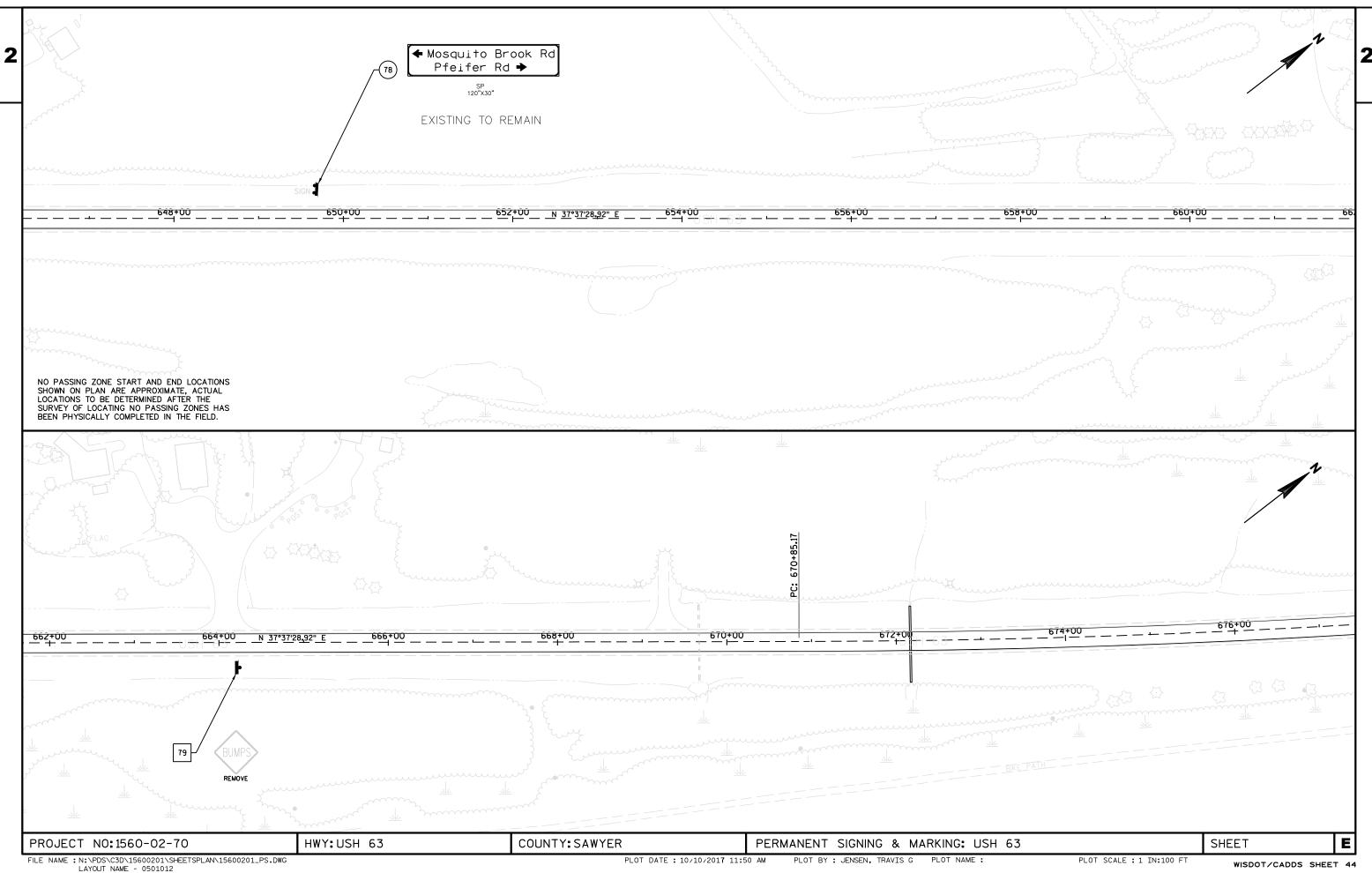


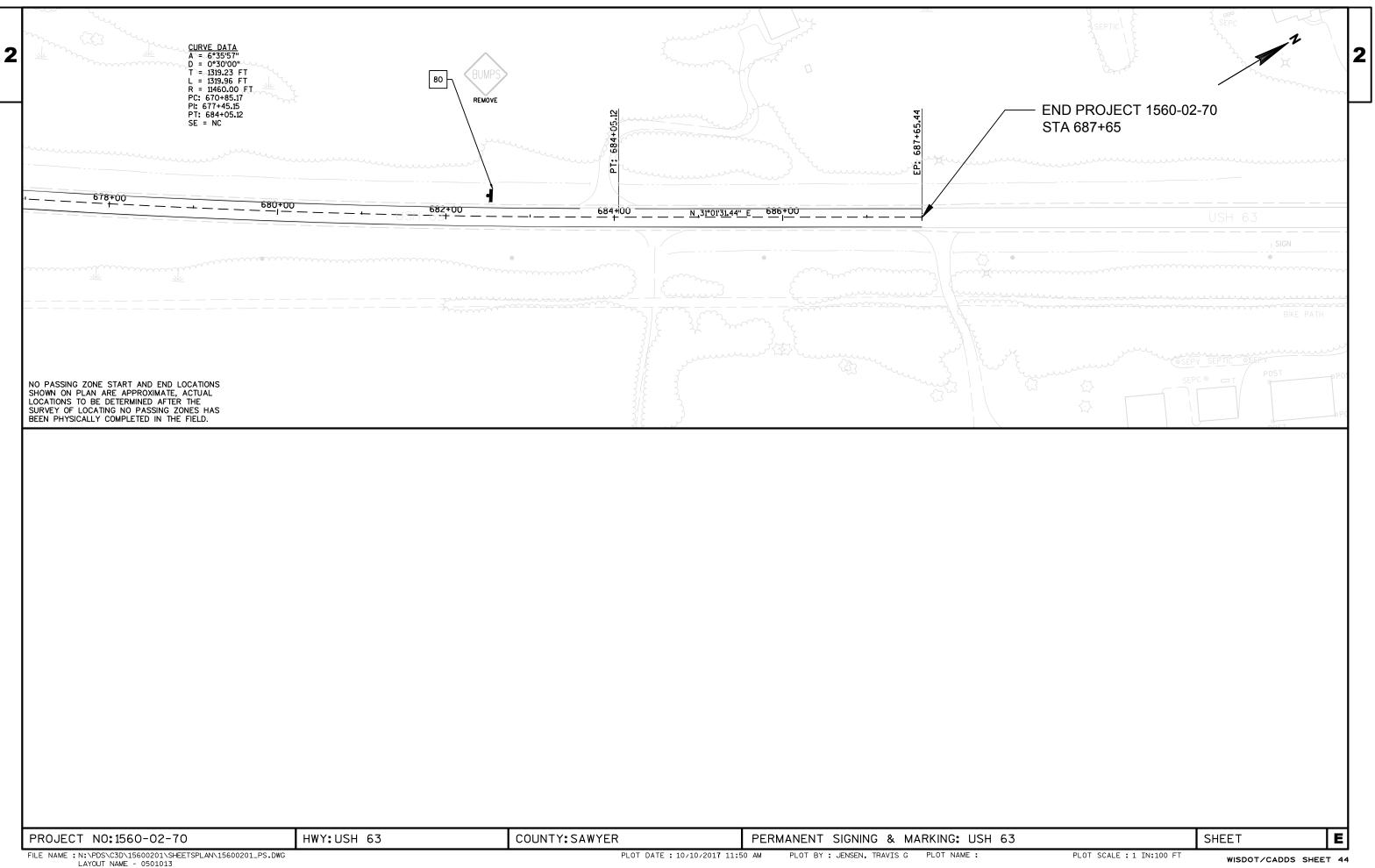


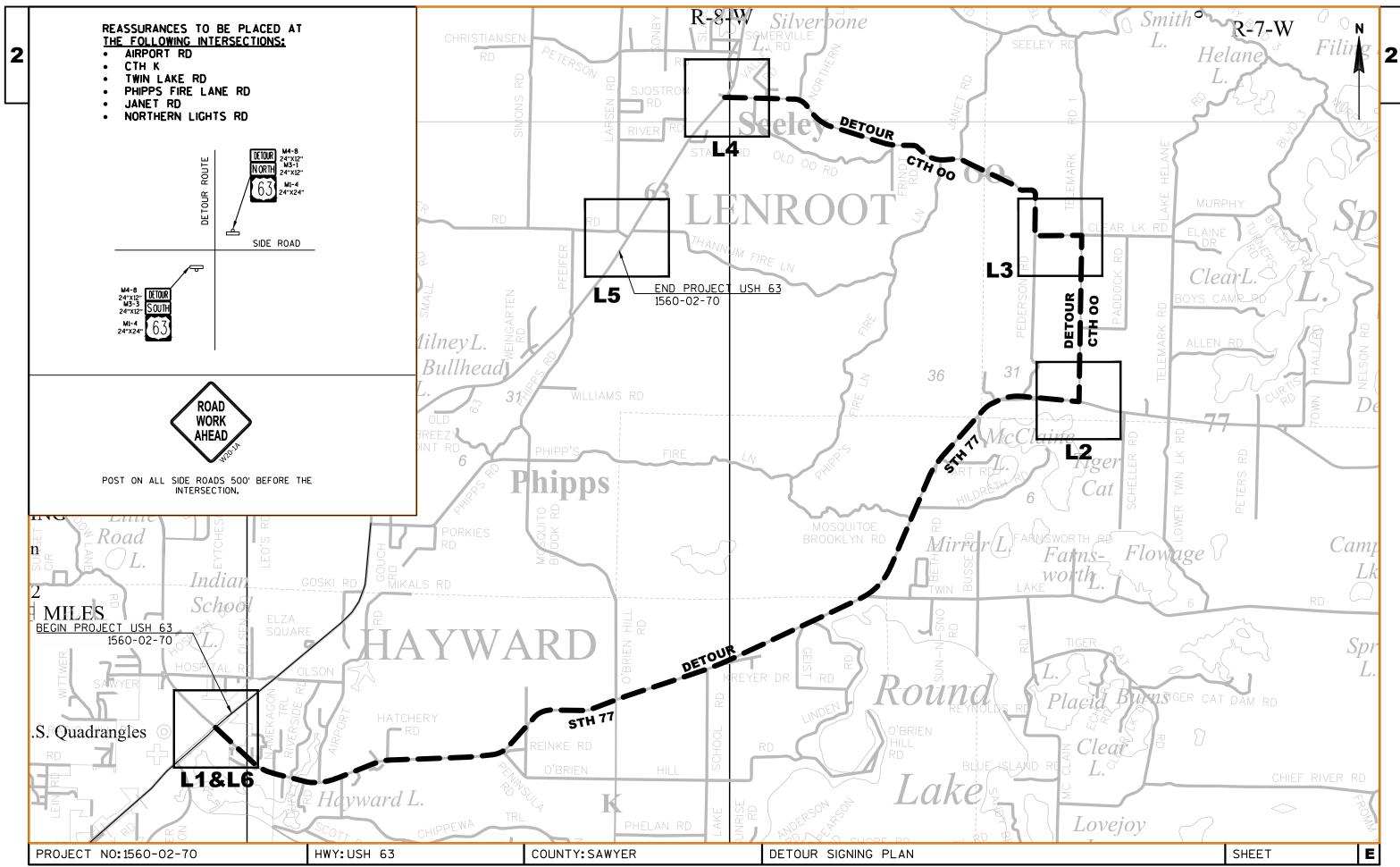


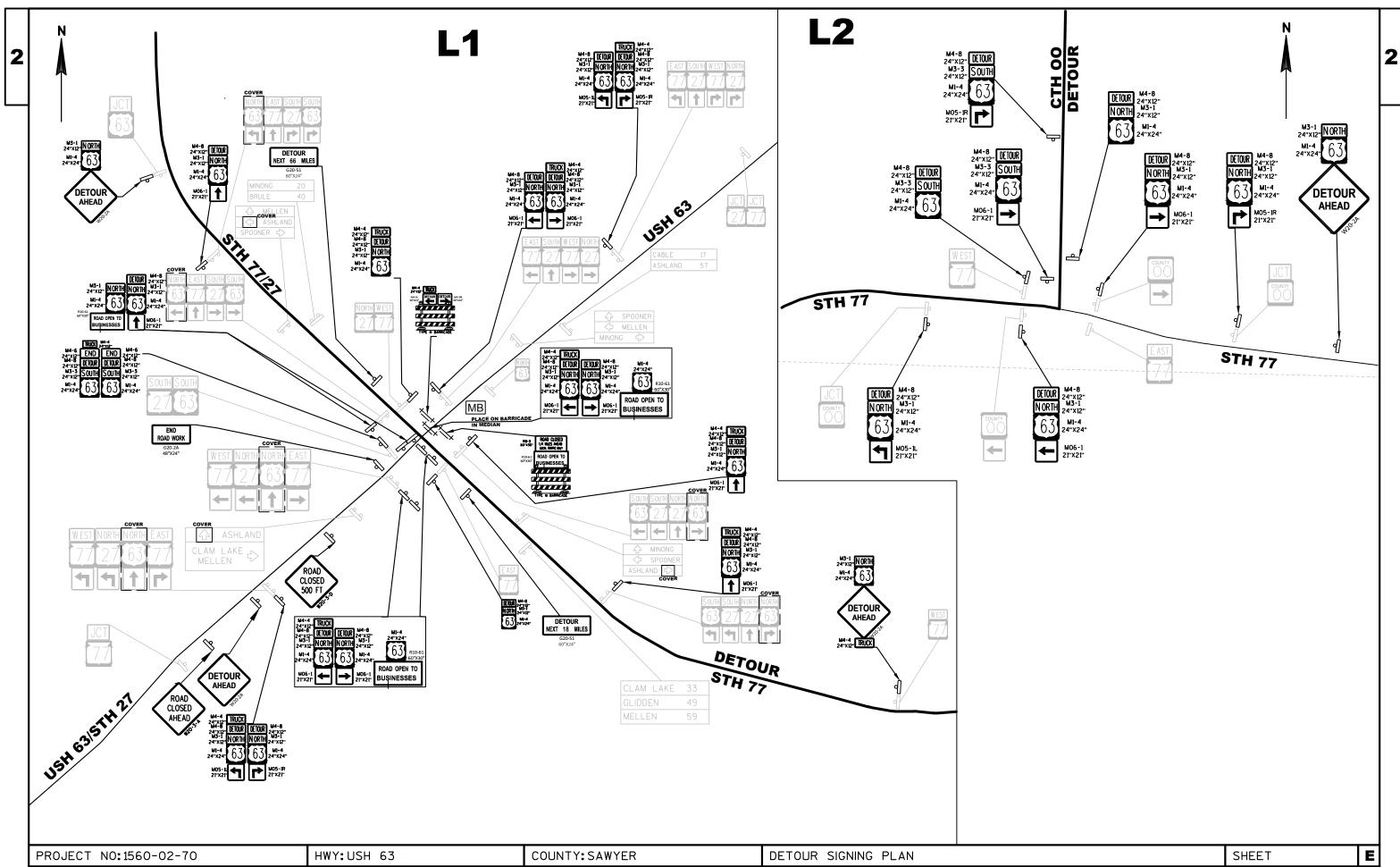


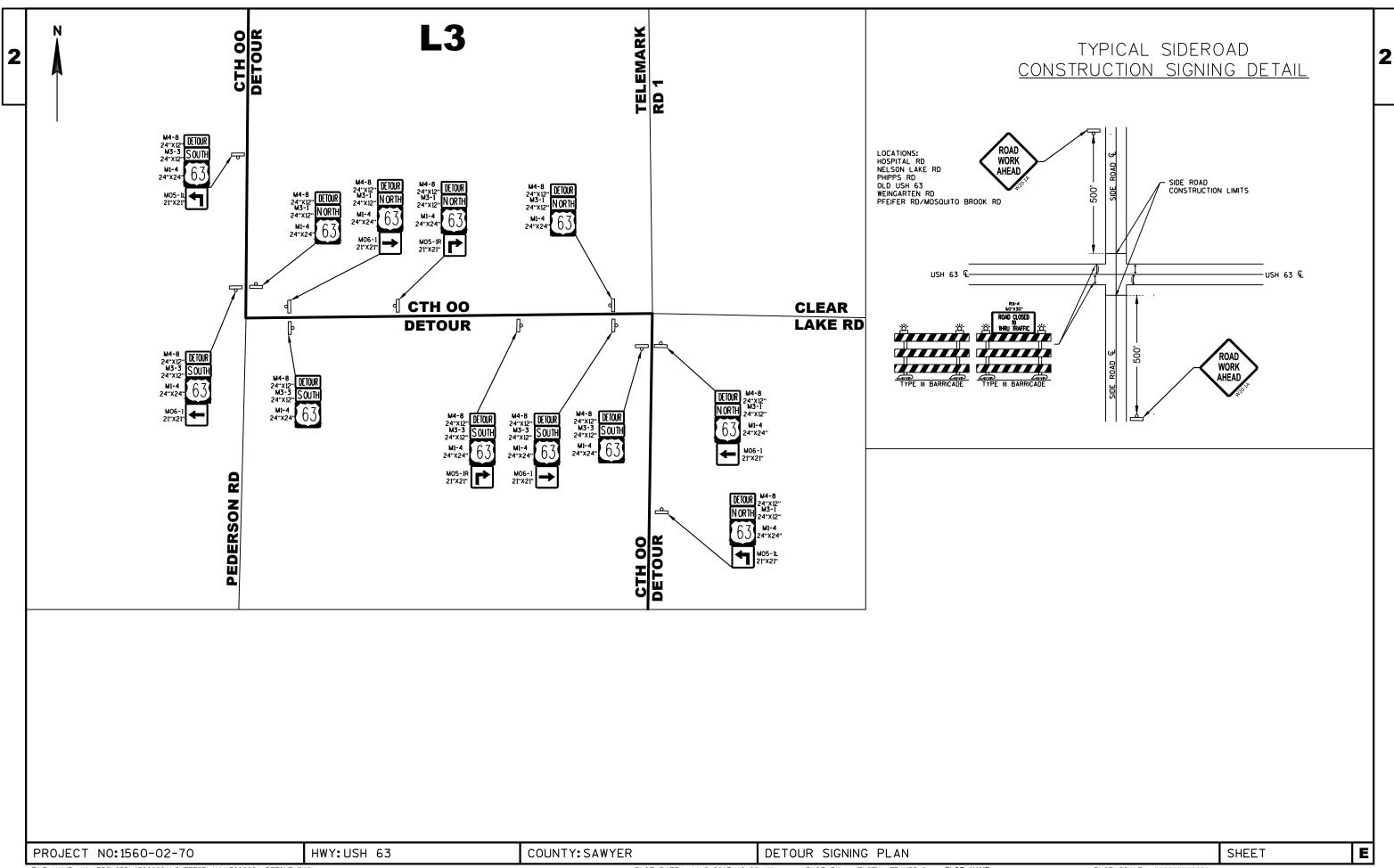


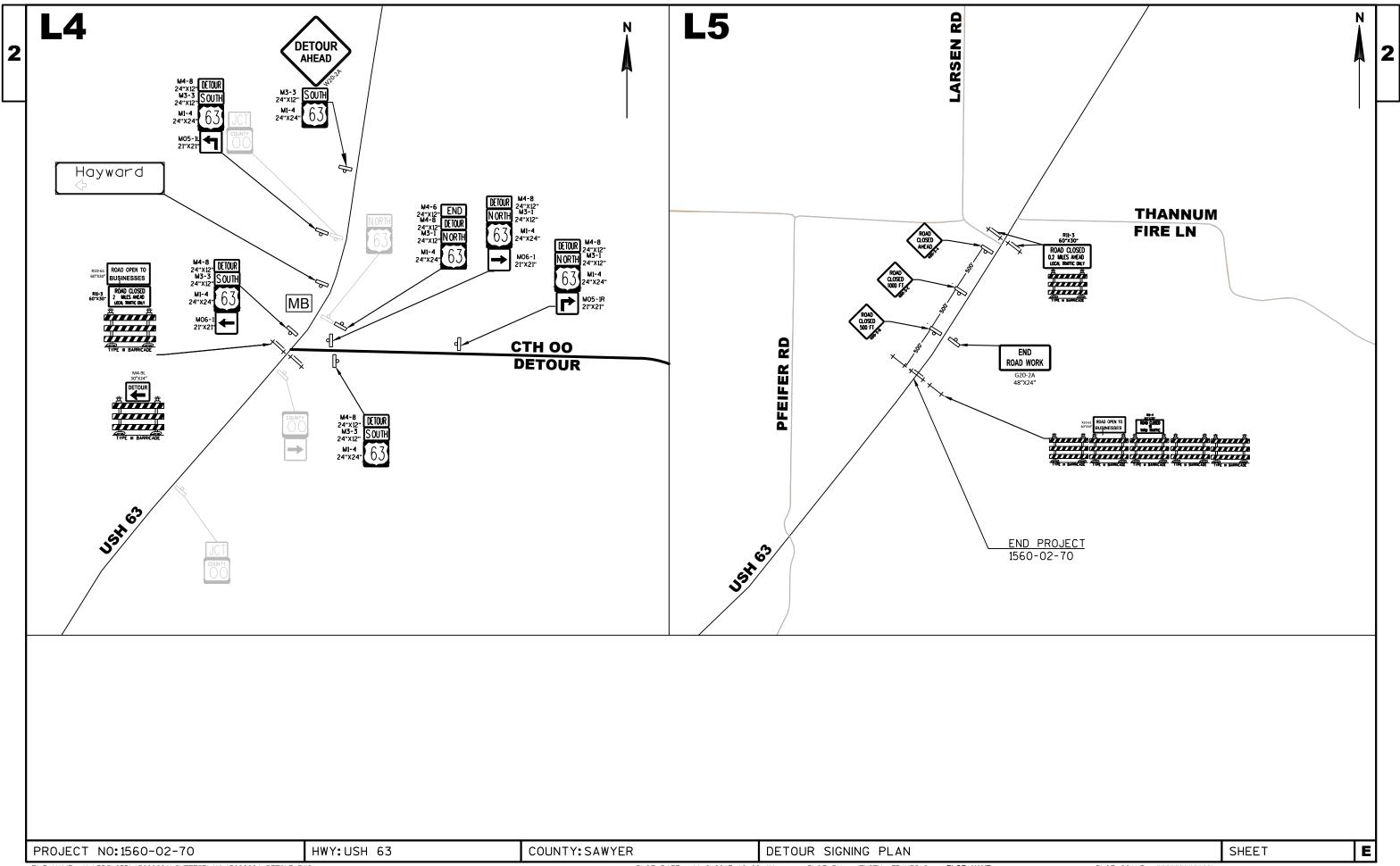


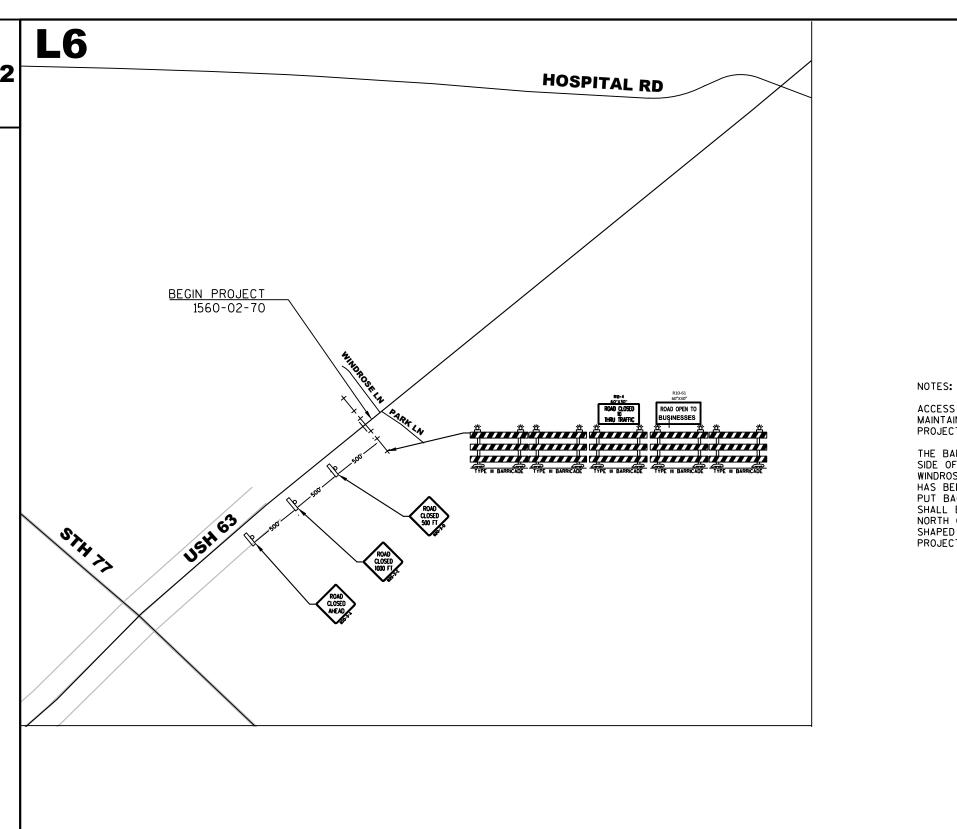








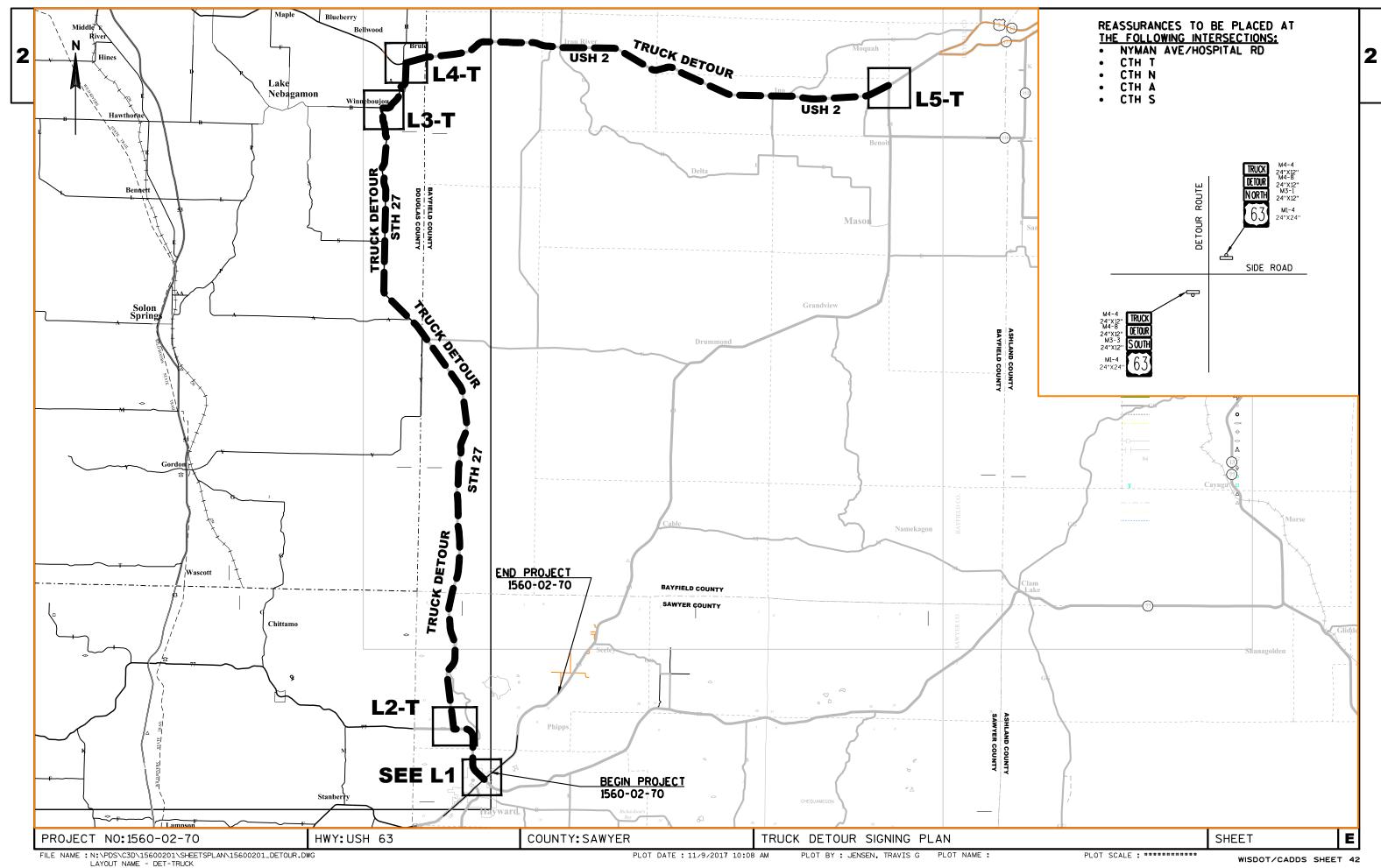


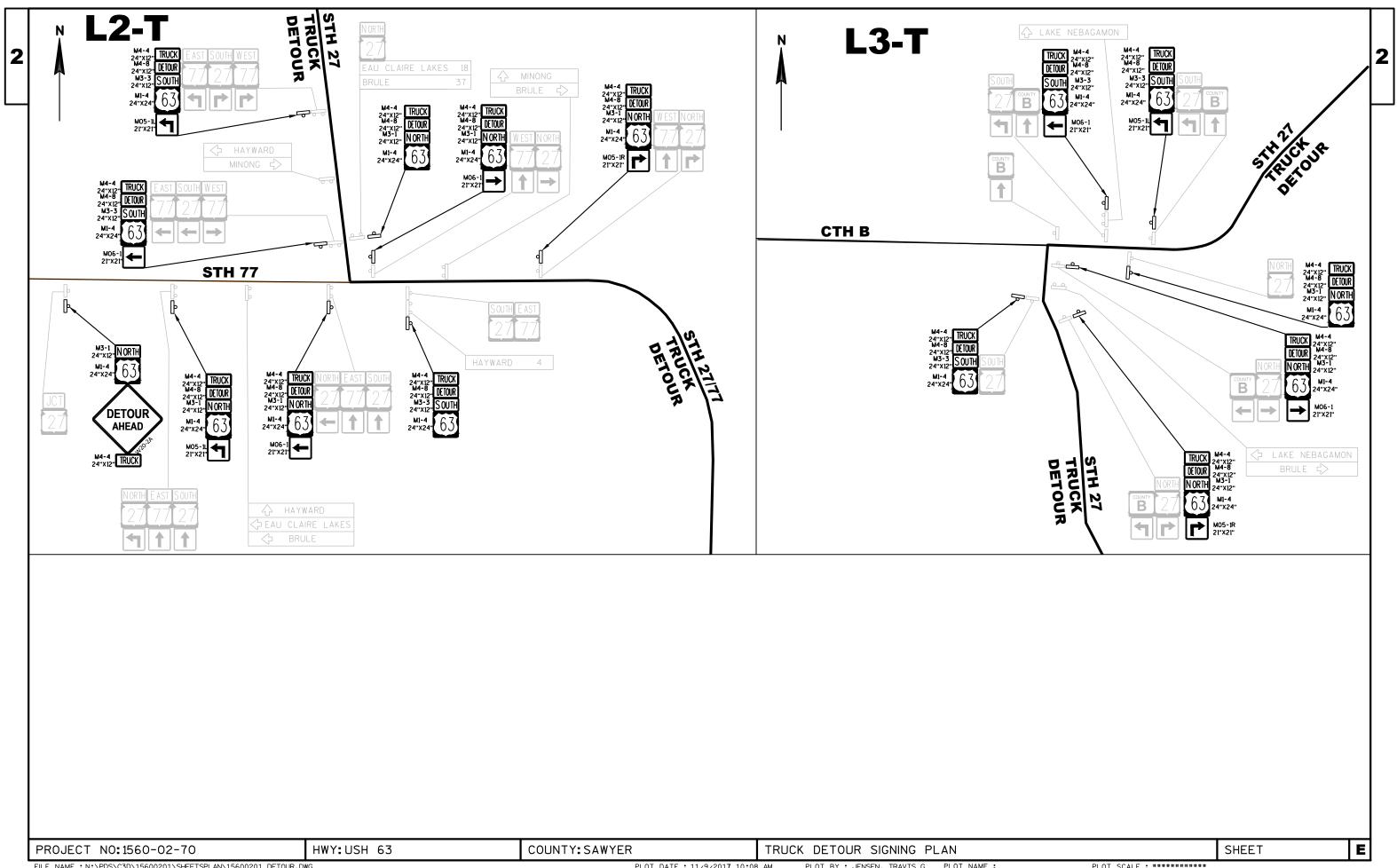


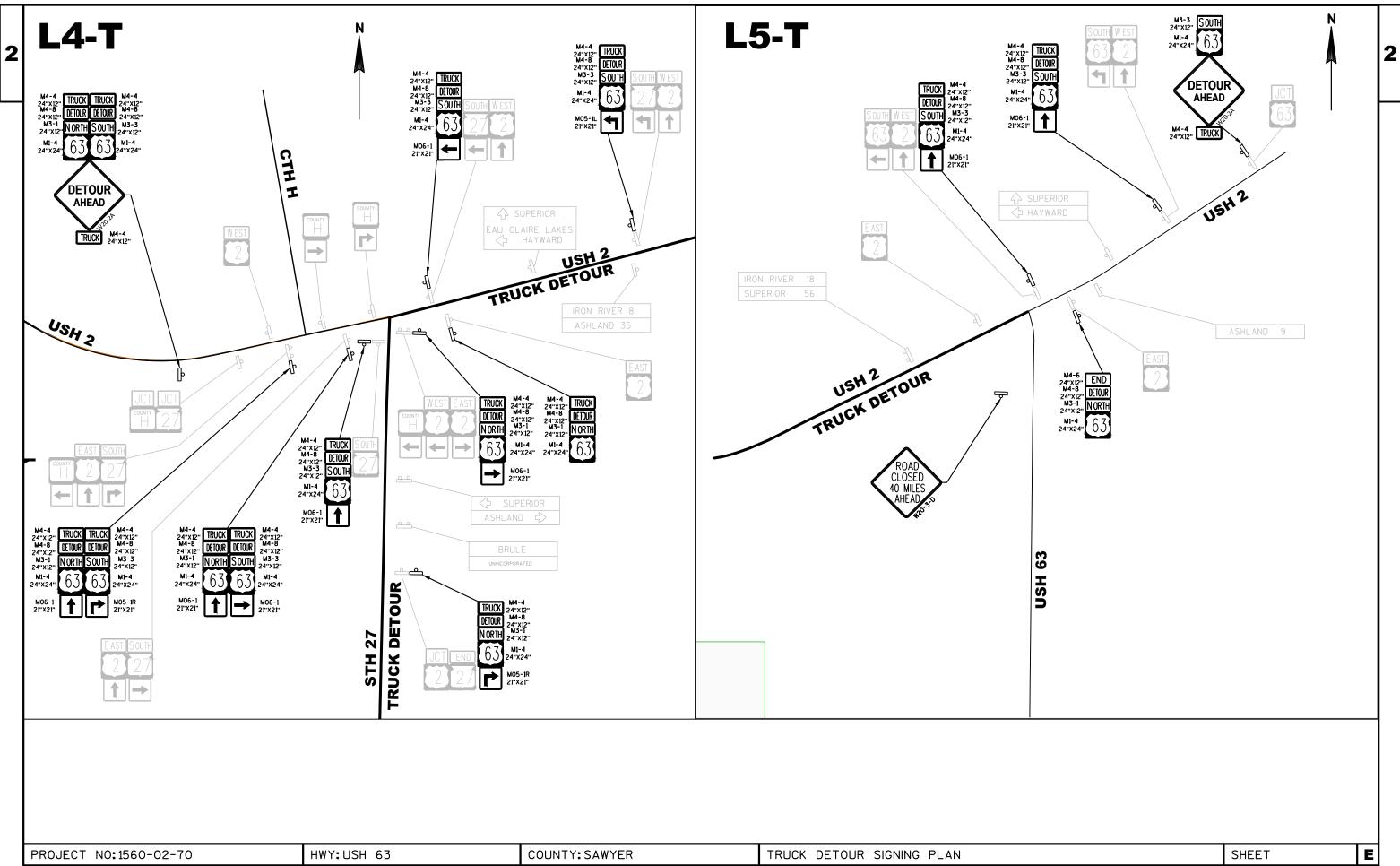
ACCESS TO WINDROSE LN AND PARK LN IS TO BE MAINTAINED AT ALL TIMES THROUGHOUT THE PROJECT.

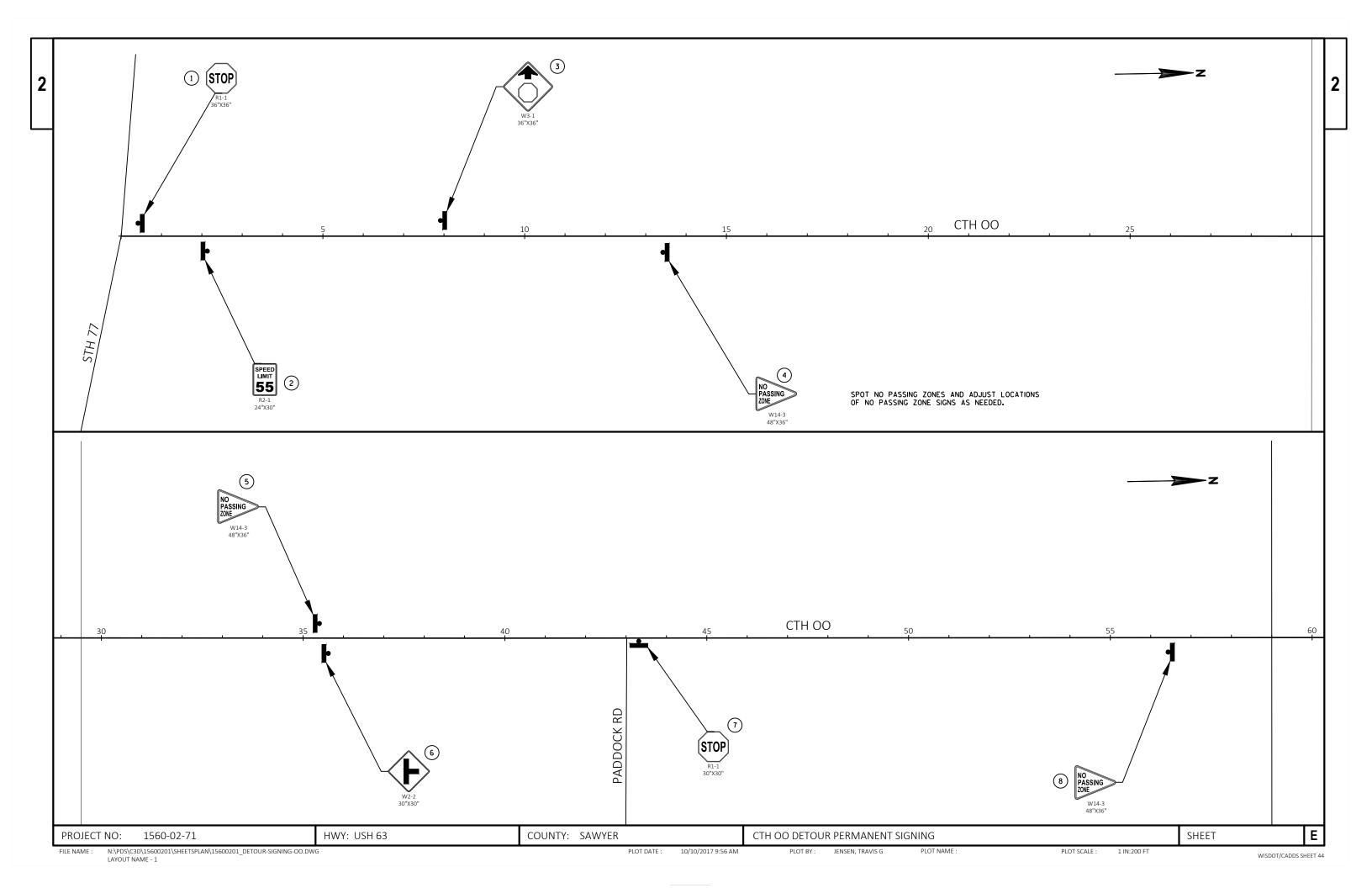
THE BARRICADES WILL BE MOVED TO THE NORTH SIDE OF THE INTERSECTION OF USH 63 AND WINDROSE LN / PAR LN AFTER EXISTING CONCRETE
HAS BEEN REMOVED AND BASE AGGREGATE DENSE
PUT BACK DOWN. "BUMP AHEAD" AND "BUMP" SIGNS SHALL BE ADDED WHEN BARRICADES ARE MOVED NORTH OF THIS INTERSECTION. GRAVEL SHALL BE SHAPED TO PROVIDE A SMOOTH RAMP AT THE PROJECT START LOCATION.

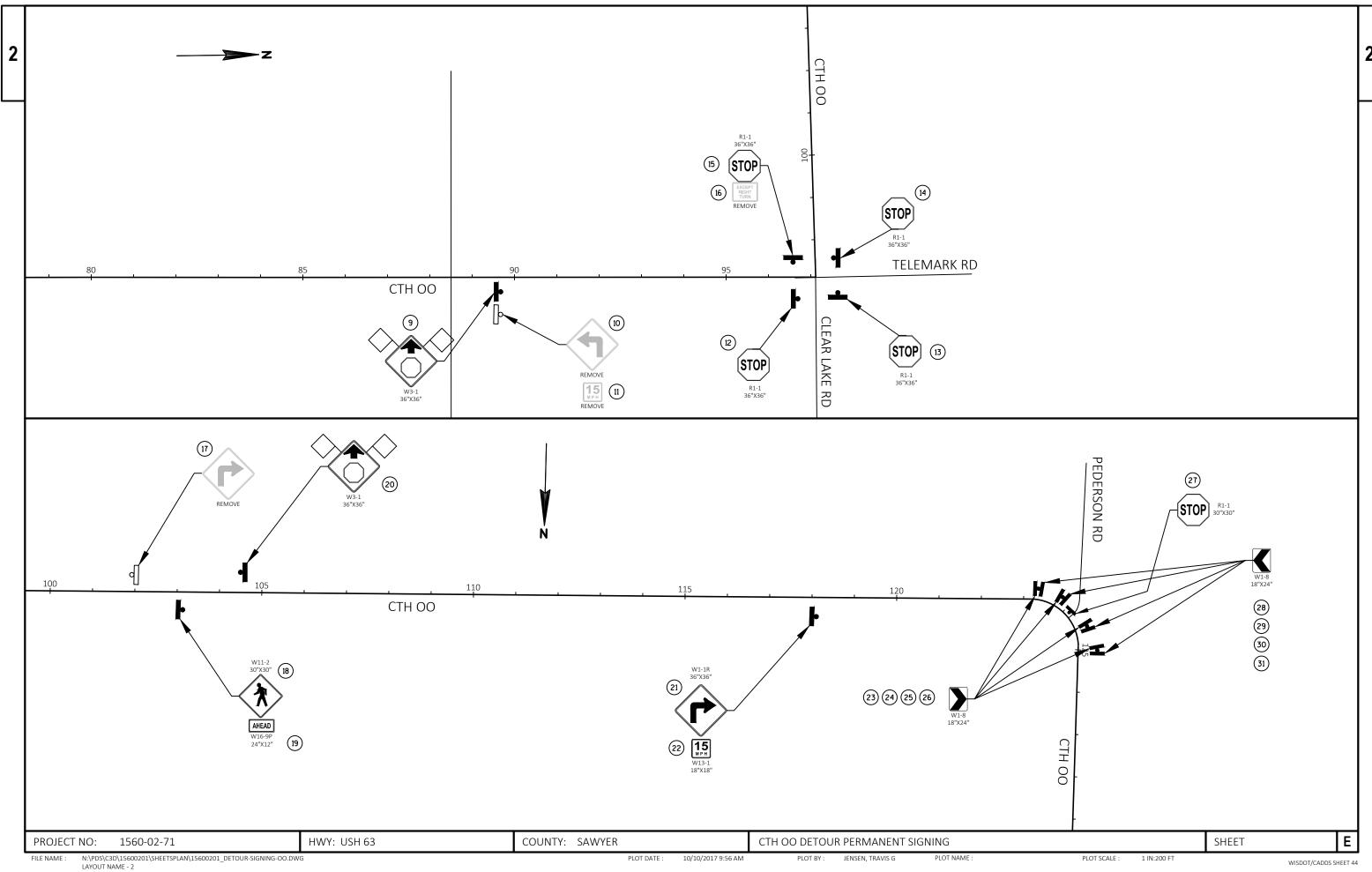
HWY: USH 63 COUNTY: SAWYER DETOUR SIGNING PLAN SHEET E PROJECT NO: 1560-02-70

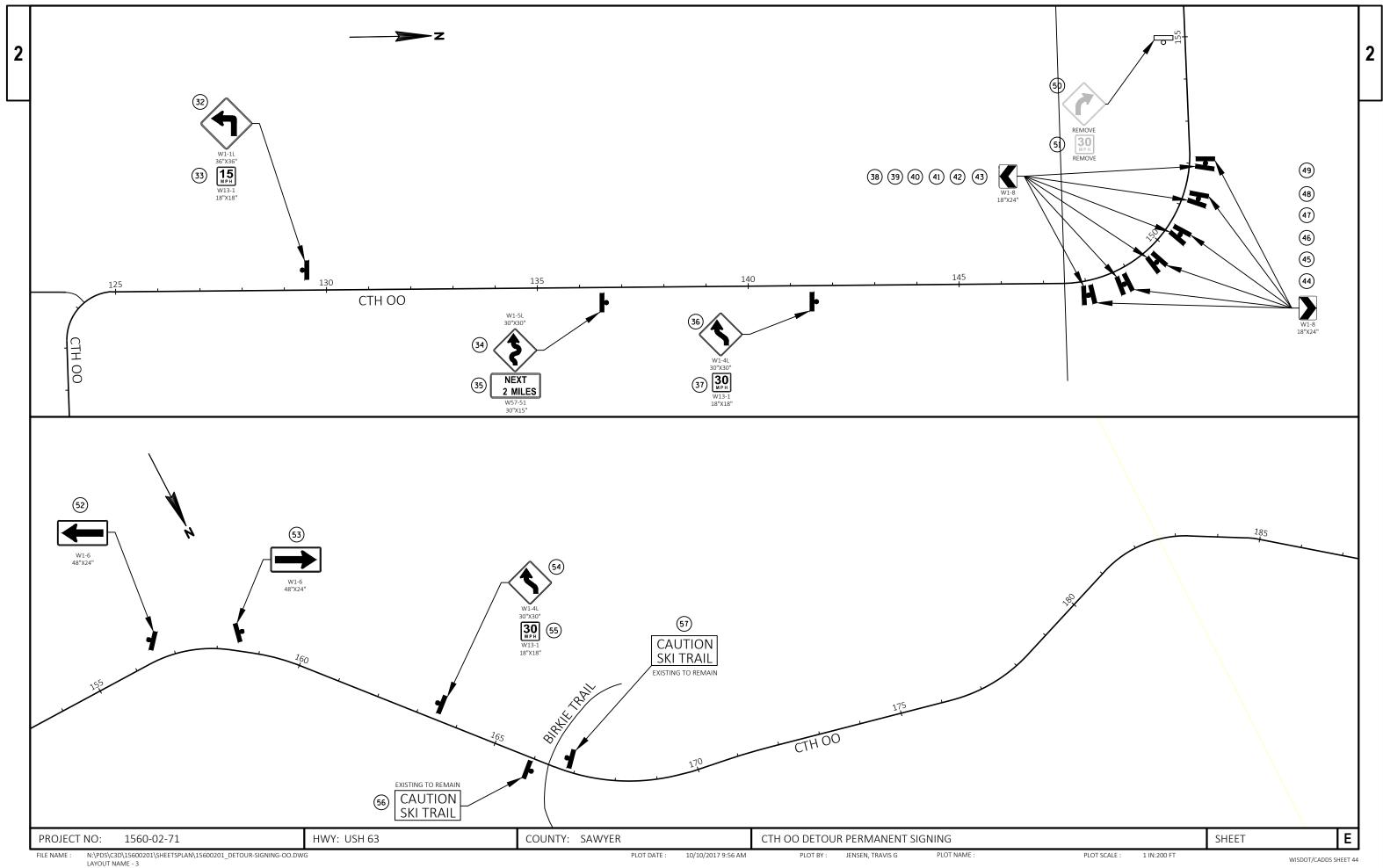


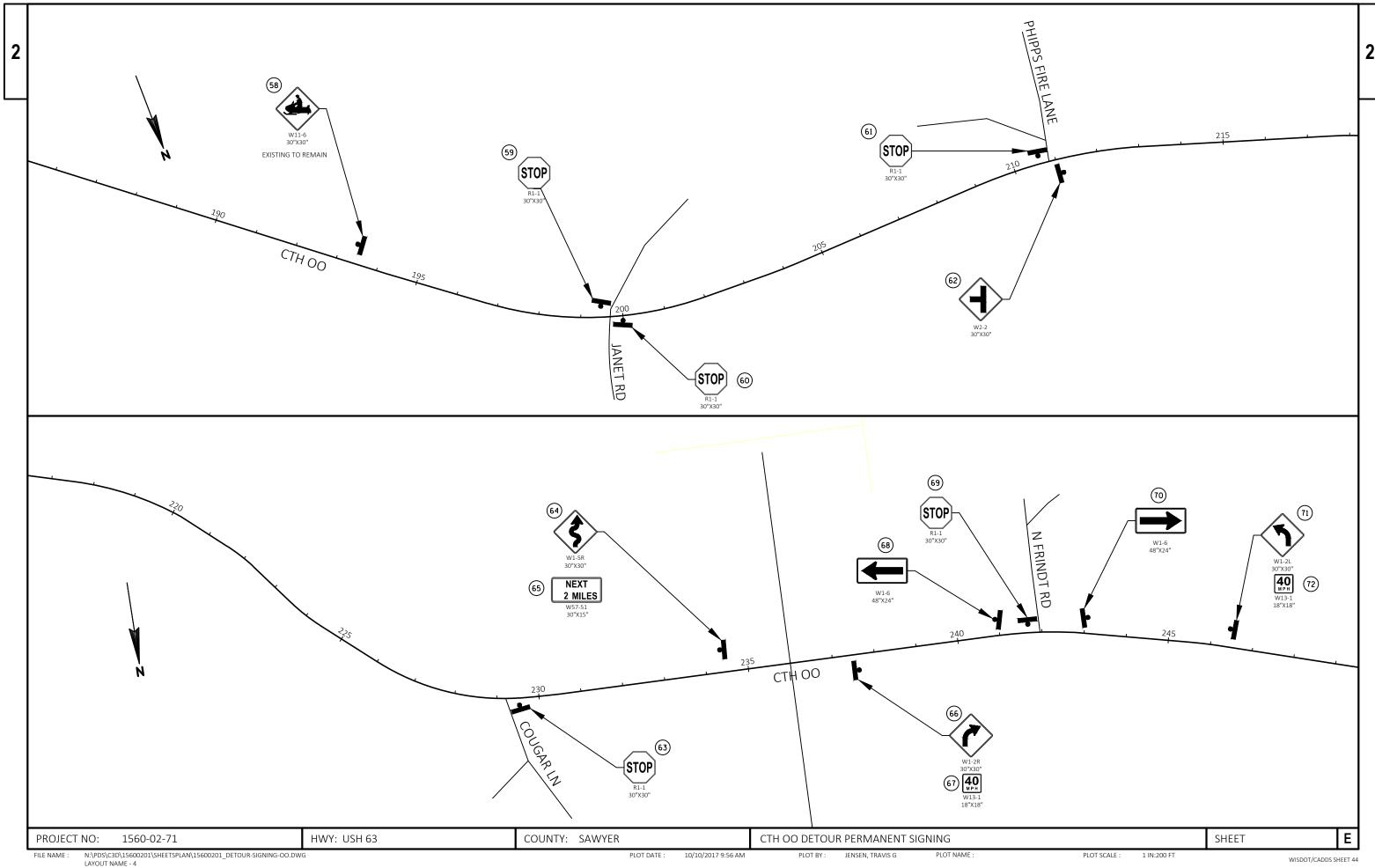




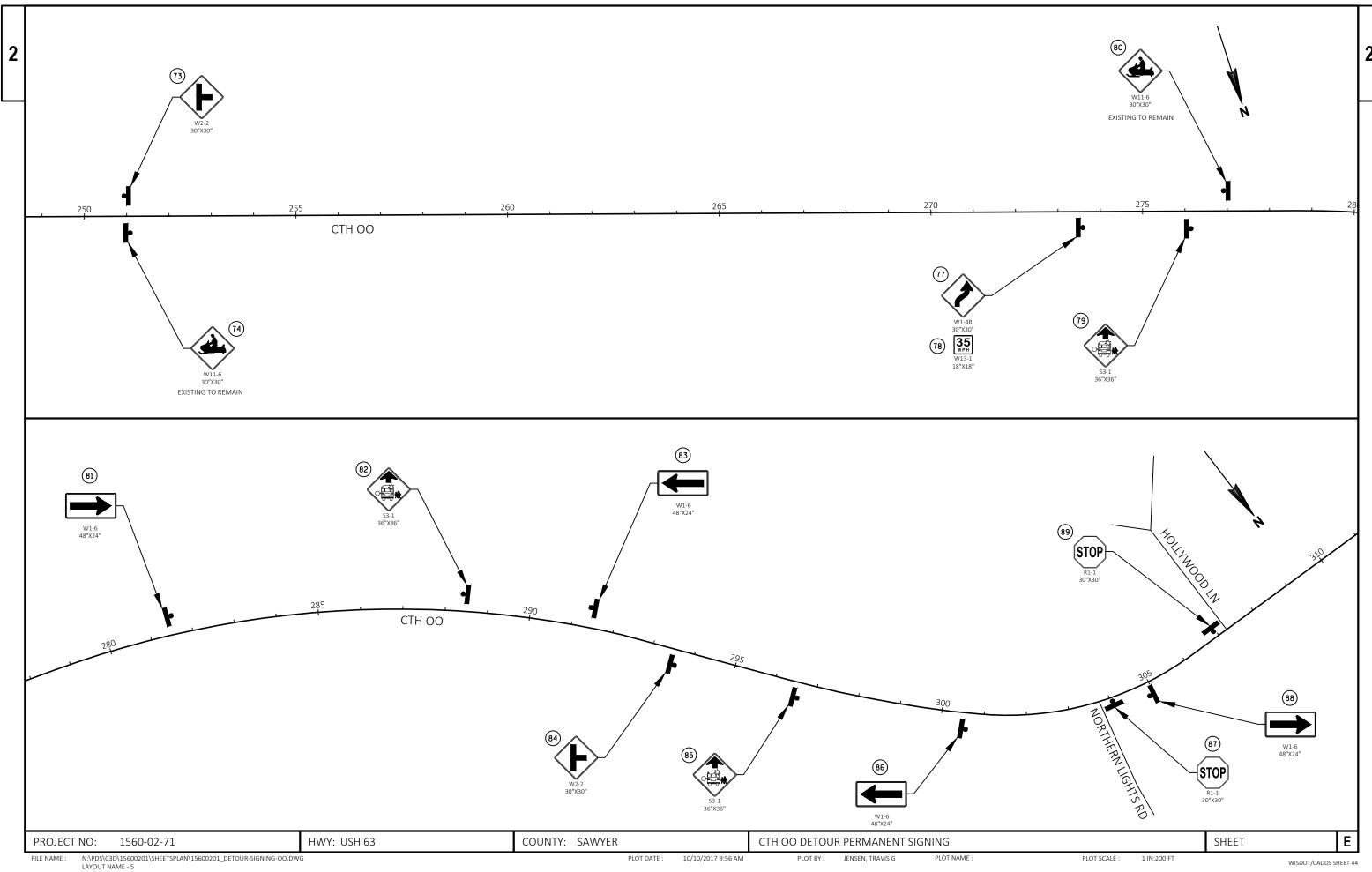


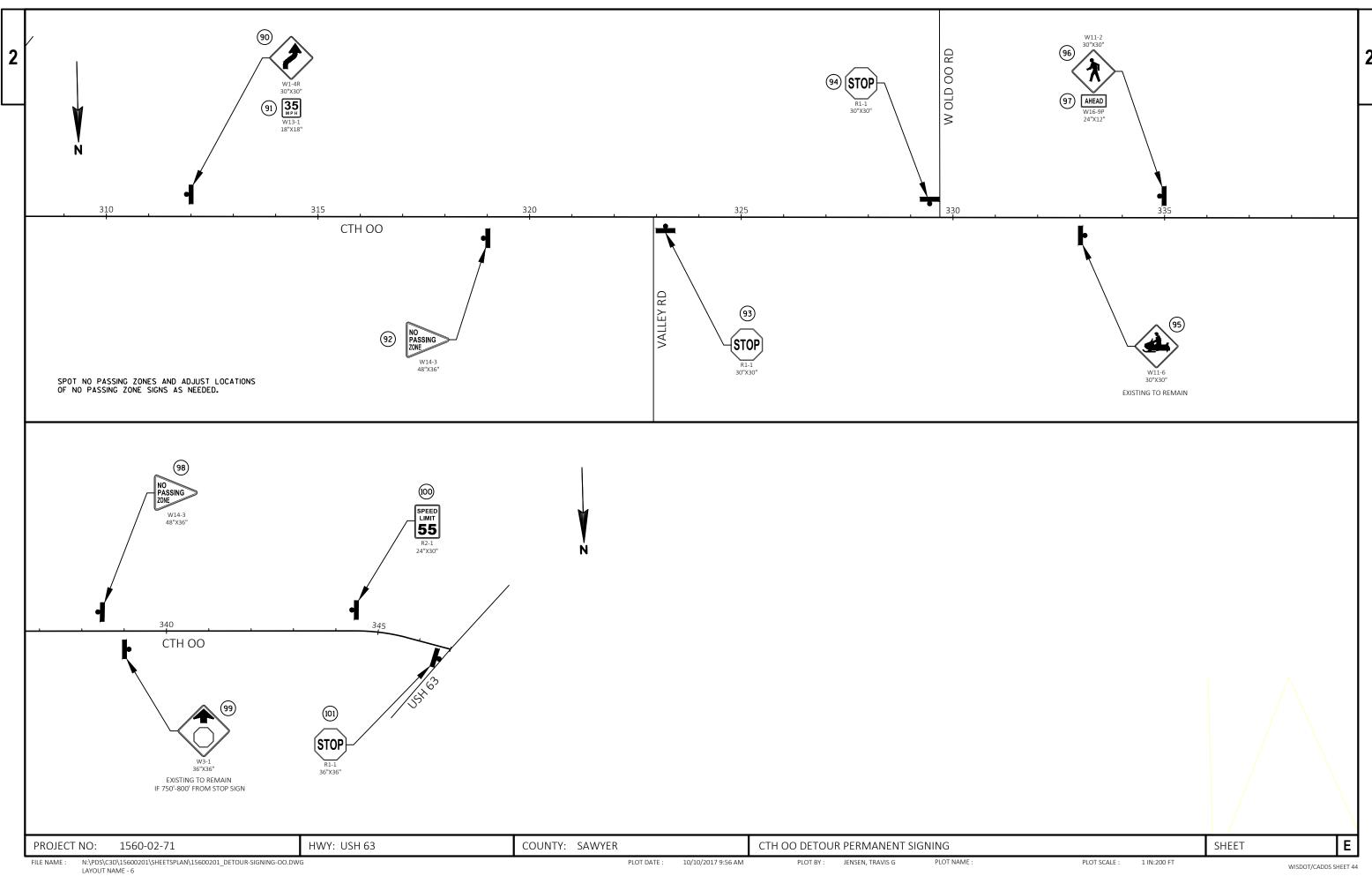






PLOT DATE : PLOT BY:





EARING & GRUBBING	REMOVING PAVEMENT

					Cl eari ng 201. 0105	Grubbi ng 201. 0205					204. 0100
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	STA	STA	CATEGORY	STATION TO	STATI ON	LOCATI ON	SY
0020 0020	1005+75 2005+50	-	1009+25 2008+50	HOSPITAL RD AIRPORT RD	5 4	5 4	0010 0010	314+54 - 576+51 -	574+73 687+65	USH 63 USH 63	69384 29637
				TOTAL 0020	9	9				TOTAL 0010	99021

REMOVING ASPHALTIC SURFACE

CATEGORY	STATI ON	TO	STATI ON	LOCATI ON		204. 0110 SY
0010	314+54	_	568+76	USH 63	28	16948
0010	417+94	-	419+08	USH 63	28	16
0010	423+01	-	423+87	USH 63	28	16
0010	488+71	-	489+37	USH 63	17	9
0010	508+79	-	509+72	USH 63	33	18
0010	544+00	-	574+73	USH 63	27	8195
0010	559+34	-	560+17	USH 63	27	15
0010	568+76	-	574+73	USH 63	27	1051
0010	576+51	-	578+32	USH 63	27	360
0010	578+32	-	687+65	USH 63	27	7289
0010	632+43	-	633+25	USH 63	27	15
0010	636+50	-	637+39	USH 63	57	32
				TOTAL 0010		33963
0020	1005+25	-	1006+90	HOSPITAL RD		550
0020	2005+55	-	2007+83	AI RPORT RD		608
				T0TAL 0020		1158

REMOVING CURB & GUTTER

					204. 0150
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	LF
0010	34618	-	34650	RT	35
0010	34649	-	34682	LT	36
0010	52884	-	52931	LT	63
				TOTAL 0010	134

REMOVING ASPHALTIC SURFACE BUTT JOINTS

					204. 0115
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	SY
0010	314+54	-	317+56	USH 63	30
0010	373+03	-	373+83	USH 63	13
0010	376+04	-	377+03	USH 63	13
0010	395+93	-	398+73	USH 63	29
0010	417+94	-	419+08	USH 63	13
0010	457+85	-	459+31	USH 63	16
0010	471+63	-	472+33	USH 63	11
0010	477+85	-	478+58	USH 63	13
0010	508+79	-	509+72	USH 63	18
0010	527+95	-	529+35	USH 63	14
0010	568+76	-	570+18	USH 63	14
0010	587+71	-	588+60	USH 63	12
0010	610+63	-	611+57	USH 63	13
0010	641+49	-	643+36	USH 63	29
				TOTAL 0010	240
0020	1005+33	_	1005+33	HOSPITAL RD	13
0020	2004+68	-	2004+68	AI RPORT RD	13
				T0TAL 0020	26

REMOVING GUARDRAIL

					204. 0165
CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	LF
0010	52701	-	52824	LT	181
0010	52450	-	53129	RT	679
0010	52900	-	53324	LT	520
				TOTAL 0010	1380

HWY: USH 63 SHEET: COUNTY: SAWYER MISCELLANEOUS QUANTITIES Ε PROJECT NO: 1560-02-70

FILE NAME: N:\PDS\...\030200_mq.pptx PLOT DATE: June 14, 1911 PLOT BY: A.R.H. PLOT NAME : PLOT SCALE: 1:1

EARTHWORK

OBLITERATING OLD ROAD

CONCRETE CURB & GUTTER

199

199

TOTAL 0010

ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL

CATEGORY	STATION TO	STATI ON	LOCATI ON	465. 0475 LF	CATEGORY	STATI ON	то	STATI ON	LOCATI ON	CONCRETE C&G 6-INCH SLOPED 36-INCH TYPE D 601.0557 LF	CONCRETE C&G CURE SEAL TREATMENT SPV. 0090. 01 LF
0010 0010	314+54 - 576+51 -	574+73 687+65		26019 11114	0010 0010	342+21 342+92	- -	342+62 343+52	LT LT	83 116	83 116
			TOTAL 0010	37133					TOTAL 0010	100	100

CULVERT SUMMARY

CATEGORY	STATI ON	LOCATI ON	REMOVING SMALL CULVERT PIPES 203.0100 EACH	RCCP CLASS III 24- INCH 522.0124 LF	RCCP CLASS III 30- INCH 522. 0130 LF	AEW RCCP 24-INCH 522. 1024 EACH	AEW RCCP 30-INCH 522. 1030 EACH	MARKERS CULVERT END 633. 5200 EACH
0010	361+00	ML	1	64		2		2
0010	366+00	ML	1	100		2		2
0010	435+90	ML	1		140		2	2
0010	437+22	ML	1	130		2		2
0010	498+21	ML	1	158		2		2
0010	607+15	ML	1	100		2		2
0010	612+15	ML	1	100		2		2
0010	625+65	ML	1	90		2		2
0010	639+68	ML	1		112		2	2
0010	672+17	ML	1	90		2		2
		TOTAL 0010	10	832	252	16	4	20

PROJ	ECT NO: 1560-02-70	HWY: USH 63	COUNTY: SAWYER	MISCELLANEOUS QUANTITIES	SHEET:	E
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BASE COURSE SUMMARY

CATEGORY	STATI ON	ΙΙ	'n	STATI ON	LOCATI ON	BASE AGG. DENSE 3/4-IN 305. 0110 TON	BASE AGG. DENSE 1 1/4-INCH 305.0120 TON		
CATEGORI	SIAITO	' 1	U	SIAITON	LOCATION	TON			
0010	314+54		-	317+56	USH 63	59	406		
0010	317+56		-	342+20	USH 63	420	2795		
0010	342+20		-	344+32	USH 63	14	240		
0010	344+32		-	346+18	USH 63	32	211		
0010	346+18		-	348+62	USH 63	21	277		
0010	348+62		-	373+03	USH 63	422	2769		
0010	373+03		-	373+83	USH 63	18	91		
0010	373+83		-	376+04	USH 63	38	251		
0010	376+04		-	377+03	USH 63	19	112		
0010	377+03		-	395+93	USH 63	324	2144		
0010	395+93		-	398+73	USH 63	54	318		
0010	398+73		_	417+94	USH 63	327	2179		
0010	417+94			419+08	USH 63	21	129		
0010	419+08		_	423+01	USH 63	67	446		
0010	423+01		_	423+87	USH 63	14	98		
0010	423+87			457+85	USH 63	591	3854		
0010	457+85			459+31	USH 63	25	166		
0010	459+31			471+63	USH 63	210	1397		
0010	471+63			472+33	USH 63	14	79		
0010	472+33			477+85	USH 63	96	626		
0010	477+85			478+58	USH 63	13	83		
0010	478+58			488+71	USH 63	178	1149		
0010	488+71			489+37	USH 63	11	75		
0010	489+37			508+79	USH 63	348	2203		
0010	508+79		_	509+72	USH 63	14	105		
0010	509+73		_	527+96	USH 63	317	2069		
0010	527+95		_	529+35	USH 63	30	159		
0010	529+35		_	559+34	USH 63		3402		
0010	559+34			560+17		520 13	94		
			-		USH 63 USH 63		974		
0010	560+17		-	568+76		146			
0010	568+76			570+18	USH 63	32	161		
0010	570+18			574+73	USH 63	79 25	595		
0010	576+50		-	578+43	USH 63	35	253		
0010	578+43		-	587+71	USH 63	158	1053		
0010	587+71			588+60	USH 63	17	101		
0010	588+60			610+63	USH 63	378	2499		
0010	610+63			611+57	USH 63	18	107		
0010	611+57			632+25	USH 63	352	2346		
0010	632+43		-	633+25	USH 63	17	93		
0010	633+25			636+50	USH 63	55	369		
0010	636+50			637+39	USH 63	16	101		
0010	637+39			641+49	USH 63	70	465		
0010	641+49			643+36	USH 63	39	212		
0010	643+36		-	687+65	USH 63	763	5024		
					TOTAL 0010	6406	42276		
0020	1005+33			1009+53	HOSPITAL RD	82	1012		
0020	2004+68	} .	-	2008+76	AI RPORT RD	96	971		
					TOTAL 0020	177	1983		
SH 63		CC	יאו וע	TY: SAWY			NEOUS QUANTITIES	 - (SHEET:

FILE NAME: N:\PDS\...\030200_mq.pptx

PROJECT NO: 1560-02-70

PLOT DATE: June 14, 1911

PLOT BY: A.R.H.

PLOT NAME :

PLOT SCALE : 1:1

ASPH	ALTI C	CONCRETE	PAVEMENT

	CATEGORY	STATI 01	N TO	STATI ON	LOCATI ON	TACK COAT 455. 0605 GAL	HMA PAVT 3 MF 58-28 S 460. 6223 TON	HMA PAVT MF 58-34 S 460.6444 TON	ASPH. SURFACE DETOURS 465. 0115 TON	ASPH. SURFACE DRI VEWAYS AND FI ELD ENTRANCES 465. 0120 TON		
	0010	0+00	_	347+00	СТН ОО				6500			
	0010	314+54	<u> </u>	317+56	USH 63	95	208	220				
	0010	317+56		342+20	USH 63	394	1104	1303				
	0010	342+20	-	344+32	USH 63	34	95	112				
	0010	344+32		346+18	USH 63	30	83	98				
	0010	346+18		348+62	USH 63	39	109	129				
	0010	348+62		373+03	USH 63	391	1094	1291				
	0010	373+03		373+83	USH 63	27	49	52				
	0010	373+83		376+04	USH 63	35	99	117				
	0010	376+04		377+03	USH 63	30	58	63				
	0010	377+03		395+93	USH 63	302	847	1000				
	0010 0010	395+93 398+73		398+73 417+94	USH 63 USH 63	83 307	161 861	176 1016				
	0010	39 8 +73 417+94		417+94 419+08	USH 63	307 42	66	72		15		
	0010	417+94		419+08	USH 63	63	176	208		10		
	0010	423+01		423+87	USH 63	23	39	45		16		
	0010	423+87		457+85	USH 63	544	1522	1797		10		
	0010	457+85		459+31	USH 63	44	84	93				
	0010	459+31		471+63	USH 63	197	552	652				
	0010	471+63		472+33	USH 63	19	39	42				
	0010	472+33	-	477+85	USH 63	88	247	292				
	0010	477+85		478+58	USH 63	20	41	44				
	0010	478+58		488+71	USH 63	162	454	536				
	0010	488+71		489+37	USH 63	17	30	35		11		
	0010	489+37		508+79	USH 63	311	870	1027		4.0		
	0010	508+79		509+72	USH 63	25	42	49		18		
	0010	509+72		527+96	USH 63	292	817	965				
	0010 0010	527+95 529+35		529+35 550+34	USH 63 USH 63	53 480	91	98 1586				
	0010	559+34		559+34 560+17	USH 63	480 22	1344 37	1586 44		16		
	0010	560+17		568+76	USH 63	137	385	454		10		
	0010	568+76		570+18	USH 63	53	92	103				
	0010	570+18		574+73	USH 63	73	204	294				
	0010	576+50		578+43	USH 63	31	86	123				
	0010	578+43		587+71	USH 63	148	416	491				
	0010	587+71		588+60	USH 63	26	51	56				
	0010	588+60		610+63	USH 63	352	987	1165				
	0010	610+63		611+57	USH 63	28	54	59				
	0010	611+57		632+25	USH 63	331	926	1094				
	0010	632+43		633+25	USH 63	22	37	43		15		
	0010	633+25		636+50	USH 63	52	146	172				
	0010	636+50		637+39	USH 63	25	40	47		20		
	0010	637+39		641+49	USH 63	66	184	217				
	0010 0010	641+49		643+36 687+65	USH 63 USH 63	79 709	130 1984	136 2342				
	0010	643+36	, -	007+00	USII OS	709	1904	2342				
					TOTAL 0010	6301	16939	19958	6500	110		
	0020	1005+3	3 -	1009+53	HOSPITAL RD	100	227	263				
	0020	2004+68		2008+76	AI RPORT RD	83	187	179				
PROJECT NO: 1560-02-70	T	HWY: USI	H 63		TOTAL 0020	NTY: SAWYER	414	MISCELLANEOU	JS QUANTITIES	0	SHEET:	E

FILE NAME: N:\PDS\...\030200_mq.pptx

PLOT DATE: June 14, 1911

PLOT BY: A.R.H.

PLOT NAME :

PLOT SCALE: 1:1

3

			<u>L/</u>	ANDSCAPI N	G SUMMARY			SEEDI NG				SILT	Γ FENCE S	SUMMARY		
CATEGORY	STATI ON TO	O STATI	ON LOCA	ATI ON	SALVAGED TOPSOIL 625. 0500 SY	MULCHI NG 627. 0200 SY	FERTI LI ZER TYPE B 629. 0210 CWT	MI XTURE NO. 20 630. 0120 LB	CATEGORY	STATI ON	TO	STATI ON	L00	CATI ON	SILT FENCE 628. 1504 LF	SILT FENCE MAINTENANCE 628. 1520 LF
0020	1005+33 -	1009+	45 HOSDITA	AL RD RT	745	745	47	20	0000	1005 00		1000 07	носрти	AI DD DT	022	097
0020	1005+33 -	1009+			3554	3554	224	96	0020 0020	1005+30 1005+32		1009+27 1006+62		AL RD RT	377	377
0020	2004+68 -	2008+		T RD RT	768	768	48	21	0020	1005+32		1000+62		AL RD LT	136 270	136 270
0020	2004+68 -	2008+		T RD LT	1388	1388	87	37	0020	2004+67		2008+60		RT RD RT	270 379	379
0020	2001100	20001		I ND LI	1000	1000	0,	0,	0020	2004+67		2008+60		RT RD LT	470	470
			TOTAL	0020	6455	6455	407	174	0020	2004+67	-	2008+02	AI KPU	KI KD LI	470	470
			101711	0020	0100	0100	107	171					TOTA	L 0020	1632	1632
			PAVEMENT MAI	RKING SUM	<u>MARY</u>											
				MARKI NO EPOXY 4	4- I NCH	MARKI NG LI NE GROOVED WET REF EPOXY 4-I NCH 646. 1040	MARKI NG LI NE EPOXY 8-I NCH 646. 3020	PAVT MARKING SAME DAY EPOX 4-INCH 646.4520	Y LOCA PASSI	TING NO ING ZONE 8. 0100						
CATEGORY	STATI ON TO	STATI 0	N LOCATI ON	L		LF	LF	LF		MI						
0010	574+73 -	576+50	RT & LT	35	4											
0010	314+54 -	315+33	RT		-	79										
0010	316+16 -	347+10	RT			3094										
0010	348+14 -	376+13	RT			2799										
0010	376+94 -	396+92	RT			1998										
0010	397+80 -	458+20	RT			6040							DOD (DV.)	# DVIII - 1 - 1	E BATHE 4 THOU	
0010	459+15 -	569+05	RT			10990						TEN	MPORARY N	MRKING LIN	E PAINT 4-INCH	
0010	570+08 -	574+73	RT			465										
0010	576+50	641+58	RT			6508										649. 0105
0010	642+68 -	687+65	RT			4497					CATEO	CORV CTA	ATION TO	STATI ON	LOCATI ON	649. 0105 LF
0010	314+54 -	342+36	LT			2782				-	CATE	10A1 31F	311011 10	SIAIIUN	LUCATION	LI
0010	343+44 -	373+20				2976					001	0 21	4+54 -	687+65	CENTERLI NE	37310
0010	373+76 -	397+71	LT			2395					501	31	1.01	307703	OLIVE LINE	0/010
0010	398+61 -	418+20	LT			1959									TOTAL 0010	37310
0010	418+90 -	471+78	LT			5288									IOIAL OOIO	3/310
0010	472+18 -	477+96	LT			578										
0010	478+43 -	528+16	LT			4973										
0010	529+19 -	574+73	LT			4554										
0010	576+50 -	587+76				1126										
0010	588+53 -	610+79	LT			2226										
0010	611+39 -	642+26	LT			3087										
0010	643+13 -	683+59	LT			4046										
0010	684+25 -	687+65	LT			340		F0010								
0010	314+54 -	687+65	CL				22	52618								
0010	314+54 -	315+33	RT				80		_	7 02						
$\alpha\alpha\alpha\alpha$	31/1:5/	ドソフ・ド ド	HCH 62						7	/ 113						

PROJECT NO: 1560-02-70 HWY: USH 63 COUNTY: SAWYER MISCELLANEOUS QUANTITIES SHEET: **E**

52618

7.03

6. 57

14

80

72801

0010

0010

314+54 -

0+00

687+65

347+00

USH 63

CTH 00

TOTAL 0010

354

MGS GUARDRAIL

					MGS GUARDRAIL 3K	MGS GUARDRAIL SHORT RADIUS	MGS GUARDRAI L EAT
					614. 2330	614. 2350	614. 2610
CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	LF	LF	ЕАСН
0010	524+00	_	531+56	RT	756		
0010	523+47	-	524+00	RT			1
0010	531+56	-	532+09	RT			1
0010	524+29	-	524+82	LT			1
0010	533+10	-	533+63	LT			1
0010	524+82	-	527+82	LT	300		
0010	527+82	-	528+53	LT		100	
0010	528+87	-	529+65	LT		160	
0010	529+65	-	533+10	LT	345		
				TOTAL 0010	1401	260	4

CONSTRUCTION STAKING

CATEGORY	STATI ON	TO	STATI ON	LOCATI ON	SUBGRADE 650. 4500 LF	BASE 650. 5000 LF	RESURFACI NG REFERENCE 650. 8000 LF	SLOPE STAKES 650. 9920 LF
0010 0010	314+54 576+51	-	574+73 687+65	ML ML		26019 11114	26019 11114	
				TOTAL 0010	0	37133	37133	0
0020	1005+25	_	1009+72	HOSPITAL RD	447	447		447
0020	2004+65	-	2008+94	AI RPORT RD	429	429		429
				TOTAL 0020	876	876	0	876

SAWING CONCRETE

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	690. 0250 LF
0010	314+54	-	314+54	ML	43
				TOTAL 0010	43

CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	650. 5500 LF
0010	342+21	_	342+62	LT	83
0010	342+92	-	343+52	LT	116
				TOTAL 0010	199

CONSTRUCTION STAKING PIPE CULVERTS

			650. 6000
CATEGORY	STATI ON	LOCATI ON	EACH
			_
0010	361+00	USH 63	1
0010	366+00	USH 63	1
0010	435+90	USH 63	1
0010	437+22	USH 63	1
0010	498+21	USH 63	1
0010	607+15	USH 63	1
0010	612+15	USH 63	1
0010	625+65	USH 63	1
0010	639+68	USH 63	1
0010	672+17	USH 63	1
		TOTAL 0010	10

SAWING ASPHALT

CATEGORY	STATI ON	T0	STATI ON	LOCATI ON	690. 0150 LF
0010	418+39	-	418+67	RT PE	28
0010	423+29	-	423+56	RT PE	28
0010	488+96	-	489+13	LT PE	17
0010	509+10	-	509+44	RT PE	33
0010	559 + 62	-	559+89	LT PE	27
0010	632+89	-	633+12	LT PE	27
0010	636+33	-	636+90	LT PE	57
				TOTAL 0010	217

PROJECT NO: 1560-02-70 HWY: USH 63 COUNTY: SAWYER MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

					MINICIAL STANTING	<u>1 1.1.1</u>						
		REMOVI NG SMALL SI GN SUPPORTS 638, 3000	REMOVING SIGNS TYPE II 638, 2602		SIGNS TYPE II REFLECTIVE F 637, 2230	SIGNS TYPE II REFLECTIVE H 637, 2210	POSTS WOOD 4X6-INCH X 16-FT 634-0616					
REMARKS	MESSAGE	EACH	EACH	SIZE	SF	SF	EACH	SI GN CODE	LOCATI ON	STATI ON		EGORY
ON WENDDOOF IN	CTOR	1	1	00 V00		r 10	1	D1 1		MENT SIGNIN	PERMAN	
ON WINDROSE LN	STOP CTOP	1	1	30"X30"		5. 18	1	R1-1	LT	315+00	1	010
ON PARK LN	STOP	1	1	30"X30"		5. 18	1	R1-1	RT	316+00	2	010 010
	LINE 1: JCT JCT	1	1	48"X39"		13. 00	1	J1-2	LT	317+00	3&4	
	LINE 2: STH 27 STH 77	4	4	0.411370011		7 00		DO 1	T. 00	010.00	_	010
	SPEED LIMIT 45	1	1	24"X30"		5. 00	1	R2-1	LT	319+00	5	0010
	SPEED LIMIT 55	1	1	24"X30"		5. 00	1	R2- 1	RT	319+95	6	010
	NO PASSING ZONE		1	48"X36"	5. 56			W14-3	RT	319+95	7	010
	HAYWARD POPULATION 2318	2	1	60"X24"		10.00	2	SPECI AL	LT	320+25	8	010
	NO ENGINE BREAKING EXCEPT IN EMERGENCY	1	1	30"X36"		7. 50	1	R10-64	LT	321+50	9	010
	BUCKLE UP IT'S THE LAW	1	1	18"X24"		3. 00	1	R5-53-A	RT	321+85	10	010
	CDEED LINE AT ANDAD		_	0011770011	0.00			W *	. m	005 00		0.4.0
	SPEED LIMIT 45 AHEAD	1	1	36"X36"	9. 00		1	W3-5	LT	325+80	11	010
	HOSPITAL LEFT TURN ARROW	1	1	24"X45"		7. 50	1	J13-1	RT	335+65	12	010
REMOVE EXISTING HOSPITAL	HOSPITAL RD LEFT/RIGHT ARROWS	2	1	66"X24"		11. 00	2	SPECI AL	RT	339+70	13	010
	AI RPORT RI GHT ARROW	1	1	24"X45"		7. 50	1	J13-1	RT	342+00	14	010
	SOUTH USH 63	1	1	24"X36"		6. 00	1	J4- 1	LT	344+00	15	010
ON HOSPITAL RD	STOP	1	1	30"X30"		5. 18	1	R1- 1	LT	345+50	16	010
	HOSPITAL RD LEFT ARROW	1	1	24"X45"		7. 50	1	J13- 1	RT	345+60	17	010
ON HOSPITAL RD	STOP	1	1	30"X30"		5. 18	1	R1- 1	RT	346+35	18	10
	HOSPITAL RD RIGHT ARROW	1	1	24"X45"		7. 50	1	J13- 1	LT	346+55	19	10
	NORTH USH 63	1	1	24"X36"		6. 00	1	J4- 1	RT	349+00	20	010
REMOVE EXISTING HOSPITAL	HOSPITAL RD LEFT/RIGHT ARROWS	2	1	66"X24"		11. 00	2	SPECI AL	LT	351+95	21	010
	AI RPORT LEFT ARROW	1	1	24"X45"		7. 50	1	J13-1	LT	354+00	22	010
	HOSPITAL RD RIGHT TURN ARROW	1	1	24"X45"		7. 50	1	J13-1	LT	360+50	23	010
ON ELZA SQUARE RD	STOP	1	1	30"X30"		5. 18	1	R1- 1	LT	373+15	24	010
ON J PARK	ST0P	1	1	30"X30"		5. 18	1	R1- 1	RT	376+85	25	010
REMOVE EXISTING RISBERG	LINE 1: LEFT ARROW GORSKI RD	2	1	78"X30"		16. 25	2	SPECI AL	RT	390+45	26	010
	LINE 2: RISBER RD RIGHT ARROW											010
	NO PASSING ZONE	1	1	48"X36"	5. 56		1	W14-3	LT	392+50	27	010
	ADOPT A HIGHWAY HAYWARD AREA ROTARY CLUB	1	1	30"X36"	0.00	7. 50	1	I 55- 56	LT	397+50	28)10
ON RISBERG RD	STOP	1	1	30"X30"		5. 18	1	R1- 1	RT	397+65	29	010
	9707		_				_					
ON GORSKI RD	STOP	1	1	30"X30"		5. 18	1	R1-1	LT	397+90	30	010
	ADOPT A HIGHWAY HAYWARD LIONS CLUB	1	1	30"X36"		7. 50	1	I 55- 56	RT	398+15	31	010
	LINE 1: LEFT ARROW RISBERG RD	2	1	78"X30"		16. 25	2	SPECI AL	LT	405+00	32	010
	LINE 2: GORSKI RD RIGHT ARROW LEFT ARROW GORSKI RD	9	1	72"X15"		7. 50	9	CD	DТ	411.55	33	010 010
	LEFT ARROW GURSKI RD	2	1	/Z X15		7. 50	2	SP	RT	411+55	33)10
ON GORSKI RD	STOP	1	1	30"X30"		5. 18	1	R1- 1	LT	418+30	34	010
	GORSKI RD RIGHT ARROW	2	1	72"X15"		7. 50	2	SPECI AL	LT	425+60	35	010
	NO PASSING ZONE	1	1	48"X36"	5. 56		1	W14-3	RT	436+10	36)10
	PHI PPS RD RI GHT ARROW	2	1	72"X15"		7. 50	2	SPECI AL	RT	452+45	37	010
REMOVE EXISTING	SAWYER CO SKIING/HIKING TRAIL LEFT ARROW	1	_1					SPECI AL	LT	458+65	38	010
		44	37		26	239	43		SUBTOTAL 0			
SHEET:	JANTITIES	LLANEOUS QU	MISCE		NTY: SAWYER	COLI	SH 63	HWY: US		D: 1560-02-70	ECT NO	PRO:
					5/ (FF I E I C	1 8881		1 1117 11 00		J. 1000 02 10		

<u>CATEGORY</u>		STATI ON	LOCATI ON	SIGN CODE	POSTS WOOD 4X6-INCH X 16-FT 634.0616 EACH	SIGNS TYPE II REFLECTIVE H 637. 2210 SF	SIGNS TYPE II REFLECTIVE F 637. 2230 SF	SI ZE	REMOVI NG SI GNS TYPE I I 638. 2602 EACH	REMOVI NG SMALL SI GN SUPPORTS 638. 3000 EACH	MESSAGE	REMARKS
			NG CONTINUED									
0010	39	459+00	RT	R1-1	1	5. 18		30"X30"	1	1	STOP	ON PHIPPS RD
0010	40	465+00	RT	SPECI AL	2	7. 50		72"X15"	1	2	LEFT ARROW STONE RD	
30010	41	465+65	LT	SPECI AL	2	7. 50		72"X15"	1	2	LEFT ARROW PHI PPS RD	
0 010	42	471+65	LT	R1-1	1	5. 18		30"X30"	1	1	STOP	ON STONE RD
0010	43	477+85	LT	R1- 1	1	5. 18		30"X30"	1	1	STOP	ON STONE RD
0010	44	485+15	LT	SPECI AL	2	7. 50		72"X15"	1	2	STONE RD RIGHT ARROW	
010	45	486+60	LT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
0010	46	493+00	RT	W11-6	1		6. 25	30"X30"	1	1	SNOWMOBI LE CROSSI NG	
0 010	47	522+00	RT	SPECI AL	2	10. 63		102"X15"	1	2	LEFT ARROW NELSON LAKE RD	
010	48	527+25	LT	I 55- 56	1	7. 50		30"X36"	1	1	ADOPT A HIGHWAY HAYWARD LIONS CLUB	
0010	49	527+70	RT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
010	50	528+25	LT	R1- 1	1	5. 18	0.00	30"X30"	1	1	STOP	ON NELSON LAKE RD
010	51	530+60	RT	I 55- 56	1	7. 50		30"X36"	1	1	ADOPT A HIGHWAY VENTURES UNLIMITED INC	ON NEEDON EINE 100
010	52	533+40	LT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
010	53	535+40	LT	SPECI AL	2	10. 63	0.00	102"X15"	1	1	NELSON LAKE RD RIGHT ARROW	
0010	54	556+30	RT	SPECI AL					1	2	PHI PPS LANDI NG RI GHT ARROW	REMOVE EXISTING
0010	55	558+50	RT	W11-6	1	6. 25		30"X30"	1	ے 1	SNOWMOBILE CROSSING	REWOVE EXISTING
0010	56	560+00	RT	S3-1	1	0. 23	6. 25	30"X30"	1	1	SCHOOL BUS STOP AHEAD	
0010	57	569+85	RT	R1- 1	1	6. 25	0. 23	30"X30"	1	1	STOP	ON OLD HWY 63
010	58	570+45	RT	W14-3	1	0. 23	5. 56	48"X36"	1	1	NO PASSING ZONE	ON OLD IWI OS
0010	50	F71 F0	T TP	155 50	4	7.50		00 100	ı	4	ADODE A HIGHWAY VENERING INCLINETED INC	
010	59	571+50	LT	I 55- 56	1	7. 50	r ro	30"X36"	1	1	ADOPT A HIGHWAY VENTURES UNLIMITED INC	
0 010	60	573+80	LT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
0 010	61	574+90 574+05	LT	W5-52L	1		3. 00	12"X36"	1	1	BRI DGE HASH MARKS	
0 010 0 010	62 63	574+95 576+25	RT LT	W5- 52R W5- 52R	1		3. 00 3. 00	12"X36" 12"X36"	1	1	BRI DGE HASH MARKS BRI DGE HASH MARKS	
W 010	03	370+23	LI	WJ- J&R	1		3. 00	12 A30	1	1	DRI DGE HASH WARRS	
010	64	576+35	RT	W5-52L	1		3. 00	12"X36"	1	1	BRI DGE HASH MARKS	
0010	65	585+90	LT	SPECI AL					1	2	LEFT ARROW PHIPPS LANDING	REMOVE EXISTING
0010	66	587+00	LT	W11-6	1		6. 25	30"X30"	1	1	SNOWMOBI LE CROSSI NG	
0010	67	587+90	LT	R1-1	1	6. 25		30"X30"	1	1	STOP	ON THOMAS RD
010	68	600+70	RT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
0010	69	604+00	RT	SPECI AL	2	10. 00		96"X15"	1	2	LEFT ARROW WEINGARTEN RD	
0010	70	610+95	LT	R1-1	1	6. 25		30"X30"	1	1	STOP	ON WEINGARTEN RD
010	71	618+15	LT	SPECI AL	2	10.00		96"X15"	1	2	WEINGARTEN RD RIGHT ARROW	I
010	72	632+75	LT	R1-1	1	6. 25		30"X30"	1	1	STOP STOP	ON WAYSIDE INN DRIVEWAY
010	73	635+30	RT	SPECI AL	_2			120"X30"			LINE 1: LEFT ARROW PFEIFER RD	I
			SUBTOTAL 00	10	45	161	64		38	46		

PROJECT NO: 1560-02-70 HWY: USH 63 COUNTY: SAWYER MISCELLANEOUS QUANTITIES SHEET: **E**

						1 131	MANENT STUNTING					
CATEGORY	Y	STATI ON	LOCATI ON	SI GN CODE	POSTS WOOD 4X6-INCH X 16-FT 634.0616 EACH	SIGNS TYPE II REFLECTIVE H 637. 2210 SF	SIGNS TYPE II REFLECTIVE F 637. 2230 SF	SIZE	REMOVI NG SI GNS TYPE I I 638. 2602 EACH	REMOVI NG SMALL SI GN SUPPORTS 638. 3000 EACH	MESSAGE	REMARKS
			NG CONTINUED					_				
010											LINE 2: MOSQUITO BROOK RD RIGHT ARROW	
• 010	74	636+50	LT	R1-1	1	5. 18		30"X30"	1	1	STOP	ON WAYSIDE INN DRIVEWAY
3 \$010	75	642+35	LT	R1-1	1	5. 18		30"X30"	1	1	STOP	ON PFEIFER RD
0 010	76	642+40	RT	R1-1	1	5. 18		30"X30"	1	1	STOP	ON MOSQUITO BROOK RD
0010	77	643+05	RT	I 55- 56	1	7. 50		30"X36"	1	1	ADOPT A HIGHWAY CALVARY BAPTIST CHURCH OF THE NORTHWOODS	
0010 0010	78	649+65	LT	SPECI AL	2	25. 00		120"X30"	1	2	LINE 1: RIGHT ARROW MOSQUITO BROOK RD LINE 2: PFEIFER RD LEFT ARROW	
0010	79	664+20	RT	W8-1-A					1	1	BUMPS	
0010 0010	80	682+50	LT	W8- 1-A					1	1	BUMPS	
DETOUR 1	ROUTE PE	RMANENT SI	GNI NG									
0 010	1	0+50	LT	R1- 1	1	7. 46		36"X36"	1	1	STOP	
010	2	2+00	RT	R2-1	1	5. 00		24"X30"	1	1	SPEED LIMIT 55	
010	3	8+00	LT	W3-1	1		9. 00	36"X36"	1	1	STOP AHEAD	
0 010	4	13+35	RT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
0 010	5	35+35	LT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
0010	6	35+60	RT	W2-2	1		6. 25	30"X30"	1	1	SI DE ROAD RI GHT ANGLE	
0 010	7	43+30	RT	R1-1	1	6. 25		30"X30"	1	1	STOP	ON PADDOCK RD
0 010	8	56+50	RT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
0 010	9	89+60	RT	W3-1	1		9. 00	36"X36"			STOP AHEAD	
0 010	10&11	89+60	RT	W1-1L & W13-1					2	1	ROAD TURNS LEFT, 15 MPH	REMOVE EXISTING
010	12	96+60	RT	R1- 1	1	7. 46		36"X36"	1	1	STOP	
010	13	97+10	RT	R1-1	1	7. 46		36"X36"	1	1	STOP	ON CLEAR LAKE RD
0 010	14	97+60	RT	R1-1	1	7. 46		36"X36"	1	1	STOP	ON TELEMARK RD
0 010	15	97+60	LT	R1-1	1	7. 46		36"X36"	1	1	STOP	
0 010	16	97+60	LT	R1- 10- P					1		EXCEPT RIGHT TURN	REMOVE EXISTING
010	17	102+00	LT	W1 - 1R					1	1	ROAD TURNS RIGHT	REMOVE EXISTING
010	18	103+10	RT	W11-2	1		6. 25	30"X30"	1	1	PEDESTRI AN CROSSI NG	
010	19	103+10	RT	W16-9P			2. 00	24"X12"			AHEAD	
0010	20	104+60	LT	W3-1	1		9. 00	36"X36"	1	1	STOP AHEAD	
010	21	118+10	RT	W1-1R	1		9. 00	36"X36"	1	1	ROAD TURNS RIGHT	
010	22	118+10	RT	W13- 1			2. 25	18"X18"			15 MPH	
010	23&28	123+30	LT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
010	24&29	123+80	LT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0010	27	124+15	LT	R1- 1	1	6. 25		30"X30"	1	1	STOP	ON PEDERSON RD
010	25&30	124+50	LT	(2) W1-8	1		6. 00	<u>18</u> "X24"	_ 2	1	<u>CHEV</u> RON	
			SUBTOTAL 0		26	103	87		33	29		

		PROJECT NO: 1560-02-70	HWY: USH 63	COUNTY: SAWYER	MISCELLANEOUS QUANTITIES	SHEET:	E
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CATEGORY		STATION	LOCATI ON	SI GN CODE	POSTS WOOD 4X6-INCH X 16-FT 634. 0616 EACH	SIGNS TYPE II REFLECTIVE H 637. 2210 SF	SIGNS TYPE II REFLECTIVE F 637. 2230 SF	SIZE	REMOVI NG SI GNS TYPE I I 638. 2602 EACH	REMOVI NG SMALL SI GN SUPPORTS 638. 3000 EACH	MESSAGE	REMARKS
0010 K	26&31	125+00	GNING CONTI LT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0010	32	129+50	LT	(2) W1-8 W1-1L	1		9. 00	36"X36"	1	1	ROAD TURNS LEFT	
30010	33	129+50	LT	W13-1	1		2. 25	18"X18"	1	1	15 MPH	
0 010	34	136+60	RT	W15- 1 W1- 5L	1		6. 25	30"X30"	1	1	ROAD SHARP CURVES	
010	35	136+60	RT	W57-51	1		3. 13	30"X15"	1	1	NEXT 2 MI LES	
010	36	141+60	RT	W1 - 4L	1		6. 25	30"X30"	1	1	ROAD CURVES AHEAD	
0010	37	141+60	RT	W13-1			2. 25	18"X18"			30 MPH	
0010	38&44	148+00	RT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0010	39&45	148+80	RT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0010	40&46	149+60	RT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0010	41&47	150+40	RT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0 010	42&48	151+20	RT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0 010	43&49	152+10	RT	(2) W1-8	1		6. 00	18"X24"	2	1	CHEVRON	
0 010	50&51	155+00	LT	W1-2R & W13-1					2	1	ROAD CURVES RIGHT, 30MPH	REMOVE EXISTING
0010	52	156+50	LT	W1 - 6	1		8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	
0010	53	158+50	LT	W1 - 6	1		8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	
0 010	54	163+40	LT	W1 - 4R	1		6. 25	30"X30"	1	1	ROAD CURVES AHEAD	
0 010	55	163+40	LT	W13-1			2. 25	18"X18"	1		30 MPH	
0 010	56	166+00	RT	SPECI AL							CAUTION SKI TRAIL	EXISTING TO REMAIN
0 010	57	166+80	LT	SPECI AL							CAUTION SKI TRAIL	EXISTING TO REMAIN
0010	58	193+40	LT	W11-6				30"X30"			SNOWMOBILE CROSSING	EXISTING TO REMAIN
0 010	59	199+50	LT	R1- 1	1	6. 25		30"X30"	1	1	STOP STOP	ON JANET RD
0 010	60	200+00	RT	R1- 1	1	6. 25		30"X30"	1	1	STOP	ON JANET RD
010	61	210+60	LT	R1-1	1	6. 25		30"X30"	1	1	STOP	PHI PPS FI RE LN
0 010	62	211+00	RT	W2-2	1		6. 25	30"X30"	1	1	SIDE ROAD RIGHT ANGLE	
010	63	229+50	RT	R1- 1	1	6. 25	_	30"X30"	1	1	STOP	ON COUGAR LN
010	64	234+40	LT	W1 - 5R	1		6. 25	30"X30"	1	1	ROAD SHARP CURVES	
010	65	234+40	LT	W57-51	1		3. 13	30"X15"	1	1	NEXT 2 MI LES	
0 010	66	237+60	RT	W1 - 2R	1		6. 25	30"X30"	1	1	ROAD CURVES RIGHT	
0 010	67	237+60	RT	W13- 1			2. 25	18"X18"			40 MPH	
0010	68	241+00	LT	W1 - 6	1	_	8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	_
010	69	241+70	LT	R1-1	1	6. 25		30"X30"	1	1	STOP	ON N FRINDT RD
010	70	243+00	LT	W1 - 6	1		8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	
010	71	246+50	LT	W1 - 2L	1		6. 25	30"X30"	1	1	ROAD CURVES LEFT	
0010	72	246+50	LT SUBTOTAL	W13-1	25	31	2. 25	<u>18</u> "X18"	35		40 MPH	

PROJECT NO: 1560-02-70 LHWY: USH 63 LCOUNTY: SAWYER LMISCELLANEOUS QUANTITIES SHE	HEET:	E
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CATEGORY		STATI ON	LOCATI ON	SIGN CODE	POSTS WOOD 4X6-INCH X 16-FT 634. 0616 EACH	SIGNS TYPE II REFLECTIVE H 637. 2210 SF	SIGNS TYPE II REFLECTIVE F 637. 2230 SF	SIZE	REMOVI NG SI GNS TYPE I I 638. 2602 EACH	REMOVI NG SMALL SI GN SUPPORTS 638. 3000 EACH	MESSAGE	REMARKS
ETOUR RO	UTE PE	ERMANENT SI	GNING CONTIN	UED								
010	73	251+00	RT	W11-6				30"X30"			SNOWMOBILE CROSSING	EXISTING TO REMAIN
• 010	74	251+00	LT	W2-2	1		6. 25	30"X30"	1	1	SI DE ROAD RIGHT ANGLE	
3 010	77	273+50	RT	W1 - 4R	1		6. 25	30"X30"	1	1	ROAD CURVES AHEAD	
ф 010	78	273+50	RT	W13-1			2. 25	18"X18"			35 MPH	
0010	79	275+10	RT	S3-1	1		9. 00	36"X36"	1	1	SCHOOL BUS STOP AHEAD	
0010	80	277+00	LT	W11-6				30"X30"			SNOWMOBILE CROSSING	EXISTING TO REMAIN
0 010	81	281+50	LT	W1 - 6	1		8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	
0 010	82	288+50	LT	S3-1	1		9. 00	36"X36"	1	1	SCHOOL BUS STOP AHEAD	
ф 010	83	291+40	LT	W1 - 6	1		8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	
010	84	293+60	RT	W2-2	1		6. 25	30"X30"	1	1	SIDE ROAD RIGHT ANGLE	
0010	85	296+60	RT	S3-1	1		9. 00	36"X36"	1	1	SCHOOL BUS STOP AHEAD	
0 010	86	300+50	RT	W1 - 6	1		8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	
0 010	87	304+00	RT	R1-1	1	6. 25		30"X30"	1	1	STOP STOP	ON NORTHERN LIGHTS RD
ф 010	88	304+90	RT	W1 - 6	1		8. 00	48"X24"	1	1	ONE- DI RECTI ON LARGE ARROW	
010	89	306+90	LT	R1-1	1	6. 25		30"X30"	1	1	STOP	ON HOLLYWOOD LN
0010	90	312+00	LT	W1 - 4R	1		6. 25	30"X30"	1	1	ROAD CURVES AHEAD	
ф 010	91	312+00	LT	W13-1			2. 25	18"X18"			35 MPH	
0 010	92	319+00	RT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
ф 010	93	323+20	RT	R1-1	1	6. 25		30"X30"	1	1	STOP STOP	ON VALLEY RD
010	94	329+40	LT	R1- 1	1	6. 25		30"X30"	1	1	STOP	ON W OLD OO RD
0010	95	333+00	RT	W11-6				30"X30"			SNOWMOBILE CROSSING	EXISTING TO REMAIN
ф 010	96	335+00	LT	W11-2	1		6. 25	30"X30"	1	1	PEDESTRI AN CROSSI NG	
0 010	97	335+00	LT	W16-9P			2. 00	24"X12"			AHEAD	
0010	98	338+40	LT	W14-3	1		5. 56	48"X36"	1	1	NO PASSING ZONE	
010	99	339+10	RT	W3- 1				36"X36"			STOP AHEAD	EXISTING TO REMAIN IF 750'-80 FROM STOP SIGN
0010	100	344+50	LT	R2- 1	1	5. 00		24"X30"	1	1	SPEED LIMIT 55	
0 010	101	346+70	RT	R1-1	1	7. 46		36"X36"	1	1	STOP_	
			SUBTOTAL O	010	20	37	108		20	20		
			TOTAL 001	0	155	549	429		159	161		

GORY 10 10 10 10 10	NO.	STATI ON		643, 0300	0.40								
10 10 10	TC1	STATI ON		V 101 0000		0420	643. (643.				
10 10			LOCATI ON	EACH DAY	EACH	DAY	EACH	DAY	EACH	DAY	SI GN CODE		20111
10			SIDE ROADS, 500' FROM INT						18	1620	W20- 1A	ROAD WORK AHEAD	30"X
10 10 10			SW OF INT USH 63/STH 77						1	90	W20-3A	ROAD CLOSED AHEAD	36"X
10 10	TC2		SW OF INT USH 63/STH 77						1	90	W20-3D	ROAD CLOSED 500 FT	36"X
10	TC3		SW OF INT USH 63/STH 77						1	90	G20- 2A	END ROAD WORK	48"X
	TC4		NE OF INT USH 63/STH 77		1	90	2	180	1	90	M4- 4	TRUCK	24"X
10											M4-9L	DETOUR (LEFT ARROW)	30"X
10	TC5		NE OF INT USH 63/STH 77		1	90	2	180	1	90	R11-3	ROAD CLOSED 1/4 MILES AHEAD LOCAL TRAFFIC ONLY	60"X
10	TC6		NE OF INT USH 63/STH 77		1	90	2	180	1	90	M4-9R	DETOUR (RIGHT ARROW)	30"X
10	TC7		S OF INT USH 63/CTH 00		1	90	2	180	1	90	R11-3	ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY	60"X
10	TC8		S OF INT USH 63/CTH 00		1	90	2	180	1	90	M4-9L	DETOUR (LEFT ARROW)	30"X
10	TC9	346+50	ML FOR HOSPITAL RD		4	360	8	720	2	180	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X
	109				4	300	0	720	۵.				
10	TO 4.0	346+50	ML FOR HOSPITAL RD			000	0	mee.	Z	180	W20- 1A	ROAD WORK AHEAD	30" \
10	TC10	346+50	ML FOR AIRPORT RD		4	360	8	720	2	180	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"
10		346+50	ML FOR AIRPORT RD						2	180	W20-1A	ROAD WORK AHEAD	30" እ
10	TC11	458+72	ML FOR PHIPPS RD		4	360	8	720	1	90	R11-4	ROAD CLOSED TO THRU TRAFFIC	60")
10		458+72	ML FOR PHIPPS RD						1	90	W20-1A	ROAD WORK AHEAD	30"2
10	TC12	528+33	ML FOR NELSON LAKE RD		4	360	8	720	1	90	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"2
10		528+33	ML FOR NELSON LAKE RD						1	90	W20-1A	ROAD WORK AHEAD	30"2
10	TC13	569+68	ML FOR OLD HWY 63		4	360	8	720	1	90	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X
10	1010	569+68	ML FOR OLD HWY 63		-		Ü	.20	1	90	W20- 1A	ROAD WORK AHEAD	30"2
10	TC14	611+13	ML FOR WEINGARTEN RD		4	360	8	720	1	90	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X
10	1011	611+13	ML FOR WEINGARTEN RD		•	000	O	120	1	90	W20- 1A	ROAD WORK AHEAD	30"X
10	TC15	642+35	ML FOR PFEIFER RD		2	180	4	360	1	90	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X
	1013	642+35	ML FOR PFEIFER RD		۵	100	4	300	1			ROAD WORK AHEAD	30"X
10	TC10				0	100	4	000	1	90	W20- 1A		
10	TC16	642+51	ML FOR MOSQUITO BROOK RD		2	180	4	360	1	90	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X
10		642+51	ML FOR MOSQUITO BROOK RD						1	90	W20- 1A	ROAD WORK AHEAD	30" \
10	TC17	702+70	N OF INT USH 63/LARSEN RD						1	90		ROAD CLOSED AHEAD	36" \
10	TC18	702+72	N OF INT USH 63/LARSEN RD						1	90	G20- 2A	END ROAD WORK	48" \
10	TC19	698+70	N OF INT USH 63/LARSEN RD		2	180	4	360	2	180	R11-3	ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY	60"
10	TC20	697+70	S OF INT USH 63/LARSEN RD						1	90	W20-3C	ROAD CLOSED 1000 FT	36"2
10	TC21	692+70	S OF INT USH 63/LARSEN RD						1	90	W20-3D	ROAD CLOSED 500 FT	36"2
10	TC22	687+70	S OF INT USH 63/LARSEN RD		5	450	10	900	1	90	R11-4	ROAD CLOSED TO THRU TRAFFIC	60"2
10	TC23		S OF INT USH 2/USH 63		-		-		1	90	W20-3D	ROAD CLOSED 40 MILES AHEAD	36"2
10	TC24		W OF INT USH 63/HOSPITAL RD	14 210					1	15	W21-5	SHOULDER WORK	48"X
10	TC25		W OF INT USH 63/HOSPITAL RD	11 210					1	29	G20- 2A	END ROAD WORK	48"
10	TC26		W OF INT USH 63/HOSPITAL RD						1	20	W20- 1A	ROAD WORK AHEAD	48"
	TC25								1	29 20			
10			W OF INT USH 63/HOSPITAL RD						1	29	W20-1C	ROAD WORK 1000 FT	48"
10	TC28		W OF INT USH 63/HOSPITAL RD	00					1	29	W20- 1D	ROAD WORK 500 FT	48" \
10 10	TC29 TC30		ML AT HOSPTIAL RD W OF INT USH 63/HOSPITAL RD	23 506 11 77					1 1	22 7	W21-5 W21-65	SHOULDER WORK RUMBLE STRIPS AHEAD	48" አ 48" አ
	1000		SUBTOTAL 0010	48 79	3 40	3600		7200	= 61	<u> </u>	_	VIII OINI O INIED	40 /
			SUDIVIAL OUIV	40 /9.	, 40	3000	30	7200	01	. 3020			

TRAFFI C	CONTROL	SUMMARY

			TR	AFFIC CO DRUMS		TRAFFI C BARRI CADES		TRAFFI C (WARNI NG		TRAFFI C SI G					
				643. 030		643. (643. 0		643. (
GORY		STATI ON LOCATI ON	I		DAY	EACH	DAY	EACH	DAY	EACH	DAY	SI GN CODE		MESSAGE	
10	TC31	W OF INT USH 63/HOSPITA	AL RD							2	14	W20-4A	ONE LANE ROAD AHEAD		48'
10	TC32	W OF INT USH 63/HOSPITA	AL RD							2	14	W20-7A	FLAGGER AHEAD		48'
10	TC33	W OF INT USH 63/HOSPITA	AL RD	14	98					1	7	W21-65	RUMBLE STRIPS AHEAD		48'
10	TC34	W OF INT USH 63/HOSPITA	AL RD							1	7	W20-4A	ONE LANE ROAD AHEAD		48'
0	TC35	W OF INT USH 63/HOSPITA	AL RD							1	7	W20-7A	FLAGGER AHEAD		48'
0	TC36	ML AT HOSPITAL RD								2	14	W21-65	RUMBLE STRIPS AHEAD		48
0	TC37	ML AT HOSPITAL RD								2	14	W20- 4A	ONE LANE ROAD AHEAD		48
0	TC38	ML AT HOSPITAL RD								2	14	₩20- 7A	FLAGGER AHEAD		48
0	TC39	ML AT HOSPITAL RD		9	63					ہ 1	7	W21-5	SHOULDER WORK		48'
0	TC40	E OF INT USH 63/AIRPOR	T RD		285					1	, 15	W21-5	SHOULDER WORK		48
0	TC41	E OF INT USH 63/AIRPOR	T RD							1	29	G20- 2A	END ROAD WORK		48
0	TC42	E OF INT USH 63/AIRPOR	T RD							1	29	W20- 1A	ROAD WORK AHEAD		48
)	TC43	E OF INT USH 63/AIRPOR	T RD							1	29	W20-1C	ROAD WORK 1000 FT		48
0	TC44	E OF INT USH 63/AIRPOR	T RD							1	29	W20-1D	ROAD WORK 500 FT		48
)	TC45	ML AT AIRPORT RD		27	594					1	22	W21-5	SHOULDER WORK		48
0	TC46	E OF INT USH 63/AIRPOR	T RD	15	105					1	7	W21-65	RUMBLE STRIPS AHEAD		48
)	TC47	E OF INT USH 63/AIRPOR		10	100					2	14	₩20- 4A	ONE LANE ROAD AHEAD		48
)	TC48	E OF INT USH 63/AIRPOR								2	14	W20- 7A	FLAGGER AHEAD		48
))				1.4	00					د 1	14 7				48
,)	TC49 TC50	E OF INT USH 63/AIRPOR E OF INT USH 63/AIRPOR		14	98					1 1	7	W21-65 W20-4A	RUMBLE STRIPS AHEAD ONE LANE ROAD AHEAD		48
,	1030	E OF THE USH US/AFRIUM	1 KD							1	,	W2U-4A	ONE LANE ROAD AHEAD		40
)	TC51	E OF INT USH 63/AIRPOR	T RD							1	7		FLAGGER AHEAD		48
0	TC52	ML AT AIRPORT RD								2	14	W21-65	RUMBLE STRIPS AHEAD		48
)	TC53	ML AT AIRPORT RD								2	14	W20-4A	ONE LANE ROAD AHEAD		48
0	TC54	ML AT AIRPORT RD								2	14	W20-7A	FLAGGER AHEAD		48
0	TC55	ML AT AIRPORT RD		16	112					1	7	W21-5	SHOULDER WORK		48
0		INT DETOUR ROUTE/SIDE	RD							36	3240	M4-8	DETOUR		24
0												M3-1	NORTH		24
)												M1 - 4	USH 63		24
)												M4-8	DETOUR		24
)												M3-3	SOUTH		24
)												M1 - 4	USH 63		24
)	D1	NW OF INT USH 63/STH	77							3	270	M3- 1	NORTH		24
)										-		M1 - 4	USH 63		24
,)												W20- 2A	DETOUR AHEAD		36
)	D2	NW OF INT USH 63/STH	77							4	360	M4-8	DETOUR AILAD		24
												150 4	NODEN		
)												M3-1	NORTH		24
)												M1 - 4	USH 63		24
)												M6- 1	UP ARROW		21
)	D3	NW OF INT USH 63/STH	77							4	360	M4-8	DETOUR		24
)												M3- 1	NORTH		24
		SUBTOTAL 001	10	114	1355	0	0	0	0	82	4586	3			
)DC	IEOT NO	4500 00 70	/. LICH 22			COUNTY	. OAMA//ED		1	OCIL ANICO	IC OLLANT	TIFO		OUTET	
ĸΟ	JECT NO:	1560-02-70 HWY	r: USH 63			COUNTY	: SAWYER	OT DATE: June 14, 19		PLOT BY: A		PLOT NAME	: PLOT SCALE	SHEET:	

			TRAFFI C CONTROL DRUMS 643. 0300	TRAFFI C BARRI CADES 643. O	TYPE III	TRAFFI C WARNI NG 643.	LI GHTS	TRAFFI C SI G 643. (NS				
GORY NO.	STATI ON	LOCATI ON	EACH DAY	EACH	DAY	EACH	DAY	EACH	DAY	SI GN CODE		MESSAGE	
10										M1 - 4	USH 63		24"
10										M6- 1	UP ARROW		21"
10 D4		SW OF INT USH 63/STH 77						4	360	M4-6	END		24"
10										M4-8	DETOUR		24"
10										M3-3	SOUTH		24"
0										M1 - 4	USH 63		24"
.0 D5		SW OF INT USH 63/STH 77						1	90	W20- 2A	DETOUR AHEAD		36"
0 D6		SW OF INT USH 63/STH 77						5	450	M4-8	DETOUR		24"
0										M3-1	NORTH		24"
)										M1 - 4	USH 63		24'
)										M5-1L	LEFT TURN ARROW		21'
0 D7		SW OF INT USH 63/STH 77						5	450	M4-8	DETOUR		24"
)										M3- 1	NORTH		24
)										M1 - 4	USH 63		24'
)										M6- 1	LEFT ARROW		21
										1,20	EET 1 MANOW		~1
D8		SE OF INT USH 63/STH 77						3	270	M4-8	DETOUR		24
)		SE OF THE CON COASTR 77						J	210	M3- 1	NORTH		24
,)										M1 - 4	USH 63		24
		SE OF INT USH 63/STH 77						1	00	G20-51	DETOUR NEXT 18 MILES		60
		N OF INT STH 77/CTH 00						1	90 360		DETOUR NEAT TO MILES		
D10		N OF INI SIH ///CIH OO						4	360	M4-8	DETOUR		24
)										Mo o	COLUM		9.4
										M3-3	SOUTH		24
)										M1 - 4	USH 63		24
										M5-1R	RIGHT TURN ARROW		21
D11		N OF INT STH 77/CTH 00						4	360	M4-8	DETOUR		24
)										M3-3	SOUTH		24
)										M1 - 4	USH 63		24
)										M6- 1	RI GHT ARROW		21
D12		W OF INT STH 77/CTH 00						3	270	M4-8	DETOUR		24
)										M3-3	SOUTH		24
)										M1 - 4	USH 63		24
D13		W OF INT STH 77/CTH 00						4	360	M4-8	DETOUR		24
)										M3- 1	NORTH		24
)										M1 - 4	USH 63		24
)										M5-1L	LEFT TURN ARROW		21
D14		W OF INT STH 77/CTH 00						4	360	M4-8	DETOUR		24
)										M3-1	NORTH		24
)										M1 - 4	USH 63		24
)										M6- 1	LEFT ARROW		21
D15		E OF INT STH 77/CTH 00						3	270	M3- 1	NORTH		24
)		2 52 2 5211 777 5111 55							~.0	M1 - 4	USH 63		24
•										1111 I			~1
		SUBTOTAL 0010	0 0		0		0		3690				
				-	-	· ·	J		2230				
BU IEUT V	NO: 1560-02-70	HWY: USI	1 63	COLINTY	: SAWYER		кліс	CELLANEOL	IS OLIVNITI	TIES		SHEET:	
VOOFOL!	NO. 1000-02-70	I HW I. USI	1 00	COUNTY	. UNIVIER		IVIIS	CLLLAINEUU	O GOVINII	ILO		JOHEET.	

10	EGORY 010	NO.	STATI ON	LOCATI ON	TRAFFI C DRU 643. (EACH	MS	TRAFFI C (BARRI CADES 643. 0 EACH	TYPE III	TRAFFI C WARNI NG 643. C EACH	LI GHTS	TRAFFI C SI G 643. (EACH	NS	SIGN CODE W20-2A	DETOUR AHEAD	MESSAGE	36"X
10)10)10)10)10)10	D16		E OF INT STH 77/CTH 00							4	360	M4-8 M3-1 M1-4	DETOUR NORTH USH 63		24"X 24"X 24"X 21"X
10)10)10	D17		E OF INT STH 77/CTH 00							4	360	M3- 1	NORTH		24" X 24" X 24" X
10)10)10	D18		N OF INT STH 77/CTH 00							3	270				21"X 24"X
10	010 010 010 010 010	D19		N OF INT CTH OO/PEDERSON RD							4	360	M1 - 4 M4 - 8 M3 - 3	USH 63 DETOUR SOUTH		24" X 24" X 24" X 24" X 24" X
10	010 010 010 010 010	D20		N OF INT CTH OO/PEDERSON RD							4	360	M4-8 M3-3 M1-4	DETOUR SOUTH USH 63		21" X 24" X 24" X 24" X 21" X
Decomposition Decompositio	10	D21		E OF INT CTH OO/PEDERSON RD							3	270	M3-3	SOUTH		24" Z 24" Z
10	10	D22		W OF INT CTH OO/TELEMARK RD							4	360	M4-8	DETOUR		24") 24") 24")
10 D24 S OF INT CTH 00/TELEMARK RD 24" 10	10 10 10	D23		W OF INT CTH OO/TELEMARK RD							4	360	M5-1R M4-8 M3-3	RI GHT TURN ARROW DETOUR SOUTH		24"7 21"7 24"7 24"7 24"7
0 D25 S OF INT CTH OO/TELEMARK RD 24" 0 M3-1 NORTH 24" 0 M1-4 USH 63 24" 0 M5-1L LEFT TURN ARROW 21" 0 D26 S OF INT CTH OO/TELEMARK RD 4 360 M4-8 DETOUR 24" 0 D27 M5-1L NORTH 24"	0.0	D24		S OF INT CTH OO/TELEMARK RD							3	270	M4-8 M3-3	DETOUR SOUTH		21". 24". 24".
MI - 4 USH 63 24" M5-1L LEFT TURN ARROW 21" M5-1L LEFT TURN ARROW 21" M6-1L LEFT TURN ARROW 21" M6-1L LEFT TURN ARROW 24" M6-1L LEFT TURN ARROW M6-1L LEFT TURN ARROW 24" M6-1L LEFT TURN ARROW M6-1L LEFT TURN AR		D25		S OF INT CTH OO/TELEMARK RD							4	360				24".
10 M3-1 NORTH 24"	10 10	D26		S OF INT CTH OO/TELEMARK RD							4	360	M1 - 4 M5 - 1 L	USH 63 LEFT TURN ARROW		24" 24" 21" 24"
		-		SUBTOTAL 0010	ſ	0		0					M3-1			24".

ODV	NO	CTATI ON	LOCATLON	TRAFFI C CONTROL DRUMS 643. 0300	TRAFFI C BARRI CADES 643. (TYPE III 0420	TRAFFI C WARNI NG 643.	LI GHTS 0705	TRAFFI C SI G 643. (NS 0900	CLCN CODE		MESSAGE	
ORY O	NO.	STATI ON	LOCATI ON	EACH DAY	EACH	DAY	EACH	DAY	EACH	DAY	SIGN CODE M1-4	USH 63	MESSAGE	24
0											M6- 1	LEFT ARROW		21
0	D27		W OF INT CTH OO/TELEMARK RD						3	270	M4-8	DETOUR		24
0											M3-1	NORTH		24 24
0											M1 - 4	USH 63		24
0	D28		E OF INT CTH OO/PEDERSON RD						4	360	M4-8	DETOUR		24
0	D&O		E OF THE CTH OU/TEDERSON RD						4	300	M3-1	NORTH		24
0											M1 - 4	USH 63		24
0											M5-1R	RIGHT TURN ARROW		21
0	D29		E OF INT CTH OO/PEDERSON RD						4	360	M4-8	DETOUR		24
0 0											M3- 1	NORTH		24
0											M1 - 4	USH 63		24
0											M6- 1	RI GHT ARROW		21
)	D30		N OF INT CTH OO/PEDERSON RD						3	270	M4-8	DETOUR		24
)											M3- 1	NORTH		24
)											M1 - 4	USH 63		24
)	D31		N OF INT USH 63/CTH 00						1	90	W20- 2A	DETOUR AHEAD		36
)	D32		N OF INT USH 63/CTH 00						4	360	M4-8	DETOUR		24
)											M3-3	SOUTH		24
)											M1 - 4	USH 63		24
0											M5-1L	LEFT TURN ARROW		21
)	D33		N OF INT USH 63/CTH 00						1	90	SPECI AL	HAYWARD (LEFT ARROW)		
)	D34		N OF INT USH 63/CTH 00						4	360	M4-8	DETOUR		24
)											MB-3	SOUTH		24
)											M1 - 4	USH 63		24
)											M6- 1	LEFT ARROW		21
)	D35		E OF INT USH 63/CTH 00						3	270	M4-8	DETOUR		24
)											M3-3	SOUTH		24
)											M1 - 4	USH 63		24
)	D36		E OF INT USH 63/CTH 00						4	360	M4-8	DETOUR		24
)											M3-1	NORTH		24
)											M1 - 4	USH 63		24
)	.								_		M5-1R	RIGHT TURN ARROW		21
)	D37		E OF INT USH 63/CTH 00						4	360	M4-8	DETOUR		24
)											M3-1	NORTH		24
0											M1 - 4	USH 63		24
0											M6- 1	RI GHT ARROW		21
0	D38		N OF INT USH 63/CTH 00						4	360	M4-6	END		24
0											M4-8	DETOUR		24
			SUBTOTAL 0010	0 0	0	0	0	0	39	3510)			
						: SAWYER							SHEET:	

				TRAFFIC C DRUM 643. 0	MS	TRAFFI C BARRI CADES 643. 0	TYPE III	TRAFFI C WARNI NG 643.	LI GHTS	TRAFFI C SI G 643. (NS				
GORY	NO.	STATI ON	LOCATI ON	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	SI GN CODE		MESSAGE	
10 10												M3- 1 M1- 4	NORTH USH 63		24 24
10 10 10			INT OF TRUCK DETOUR/SIDE RD							40	3600	M4- 4	TRUCK		24
0												M4-8	DETOUR		24
0												M3-1	NORTH		24
)												M1 - 4	USH 63		24
0												M4-4	TRUCK		24
)												M4-8	DETOUR		24
)												M3-3	SOUTH		24
)												M1 - 4	USH 63		24
)	T1		NW OF INT USH 63/STH 77							5	450	M4-6	END		24
)												M4-4	TRUCK		24
)												M4-8	DETOUR		24
)												МЗ- З	SOUTH		24
)												M1 - 4	USH 63		24
	T2		SW OF INT USH 63/STH 77							5	450	M4-4	TRUCK		24
												M4-8	DETOUR		24
)												M3- 1	NORTH		24
)												M1 - 4	USH 63		24
)	TTO.		CHI OF THE HOLL OF COME OF							~	450	M5-1L	LEFT TURN ARROW		21
)	Т3		SW OF INT USH 63/STH 77							5	450	M4-4	TRUCK		24
))												M4-8	DETOUR		24 24
,)												M3- 1 M1- 4	NORTH USH 63		24 24
,												WII - 4			
)												M6- 1	LEFT ARROW		21
)	T4		SE OF INT USH 63/STH 77							4	360	M3-1	NORTH		24
)												M1 - 4	USH 63		24
))												W20- 2A	DETOUR AHEAD		36
1												M4- 4	TRUCK		24
)	T5		SE OF INT USH 63/STH 77							5	450	M4-4	TRUCK		24
)												M4-8	DETOUR		24
)												M3-1	NORTH		24
)												M1 - 4	USH 63		24
)												M6- 1	UP ARROW		21
)	T6		SE OF INT USH 63/STH 77							5	450	M4-4	TRUCK		24
)												M4-8	DETOUR		24
0												M3-1	NORTH		24 24
))												M1 - 4 M6 - 1	USH 63 UP ARROW		24 21
			SUBTOTAL 0010	0	0		0		0		6210				

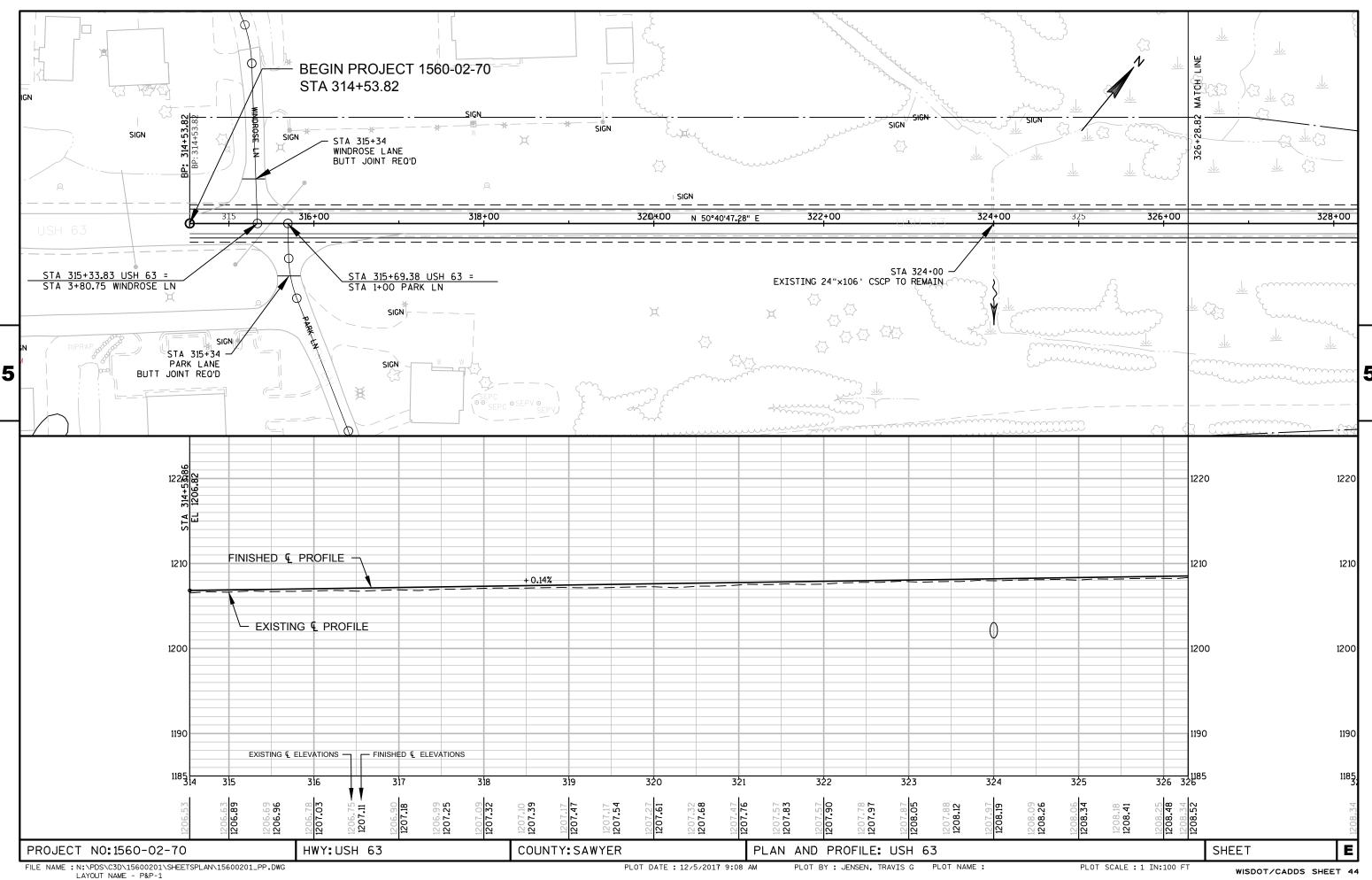
GORY	NO.	STATI ON	LOCATI ON	TRAFFI C CONTROL DRUMS 643. 0300 EACH DAY	TRAFFI C (BARRI CADES 643. C EACH	TYPE III	TRAFFIC CON WARNING LIC 643.070 EACH	GHTS	TRAFFIC C SIGN 643. O EACH	S 900 DAY	SIGN CODE		MESSAGE	
10 10	T7		NW OF INT USH 63/STH 77						4	360	M4-4 M4-8	TRUCK DETOUR		24") 24")
10											M3-1	NORTH		24"
10 10											M1 - 4	USH 63		24"
10	T8		NW OF INT USH 63/STH 77						1	90	G20-51	DETOUR NEXT 66 MILES		60"
10	Т9		N OF INT STH 77/STH 27						5	450	M4-4	TRUCK		24"
10											M4-8	DETOUR		24"
10											M3-3	SOUTH		24"
10											M1 - 4	USH 63		24"
10											M5-1L	LEFT TURN ARROW		21"
10	T10		N OF INT STH 77/STH 27						5	450	M4-4	TRUCK		24"
.0											M4-8	DETOUR		24"
.0											M3-3	SOUTH		24"
10											M1 - 4	USH 63		24"
10											M6- 1	LEFT ARROW		21"
0	T11		W OF INT STH 77/STH 27						4	360	M3- 1	NORTH		24"
.0											M1 - 4	USH 63		24"
0											W20- 2A	DETOUR AHEAD		36"
0											M4-4	TRUCK		24"
)	T12		W OF INT STH 77/STH 27						5	450	M4-4	TRUCK		24"
0											M4-8	DETOUR		24"
10											M3-1	NORTH		24"
0											M1 - 4	USH 63		24"
0											M5-1L	LEFT TURN ARROW		21"
)	T13		W OF INT STH 77/STH 27						5	450	M4- 4	TRUCK		24"
)											M4-8	DETOUR		24"
0											M3-1	NORTH		24"
0											M1 - 4	USH 63		24"
)									_		M6- 1	LEFT ARROW		21"
)	T14		E OF INT STH 77/STH 27						4	360	M4- 4	TRUCK		24'
)											M4-8	DETOUR		24'
0											M3-3	SOUTH		24"
0									_		M1 - 4	USH 63		24"
)	T15		E OF INT STH 77/STH 27						5	450	M4-4	TRUCK		24"
)											M4-8	DETOUR		24'
0											MB- 1	NORTH		24"
0											M1 - 4	USH 63		24"
0	TF 4 C		E OF THE COME AS COME OF						_	450	M5-1L	RIGHT TURN ARROW		21"
))	T16		E OF INT STH 77/STH 27						5	450	M4-4 M4-8	TRUCK DETOUR		24" 24"
			SUBTOTAL 0010	0 0	0	0	0	0	43	3870	_			
			,											Т
	FCT NO): 1560-02-70	HWY: USI	H 63	COUNTY	: SAWYER		MISC	CELLANEOUS	S QUANTII	TES		SHEET:	

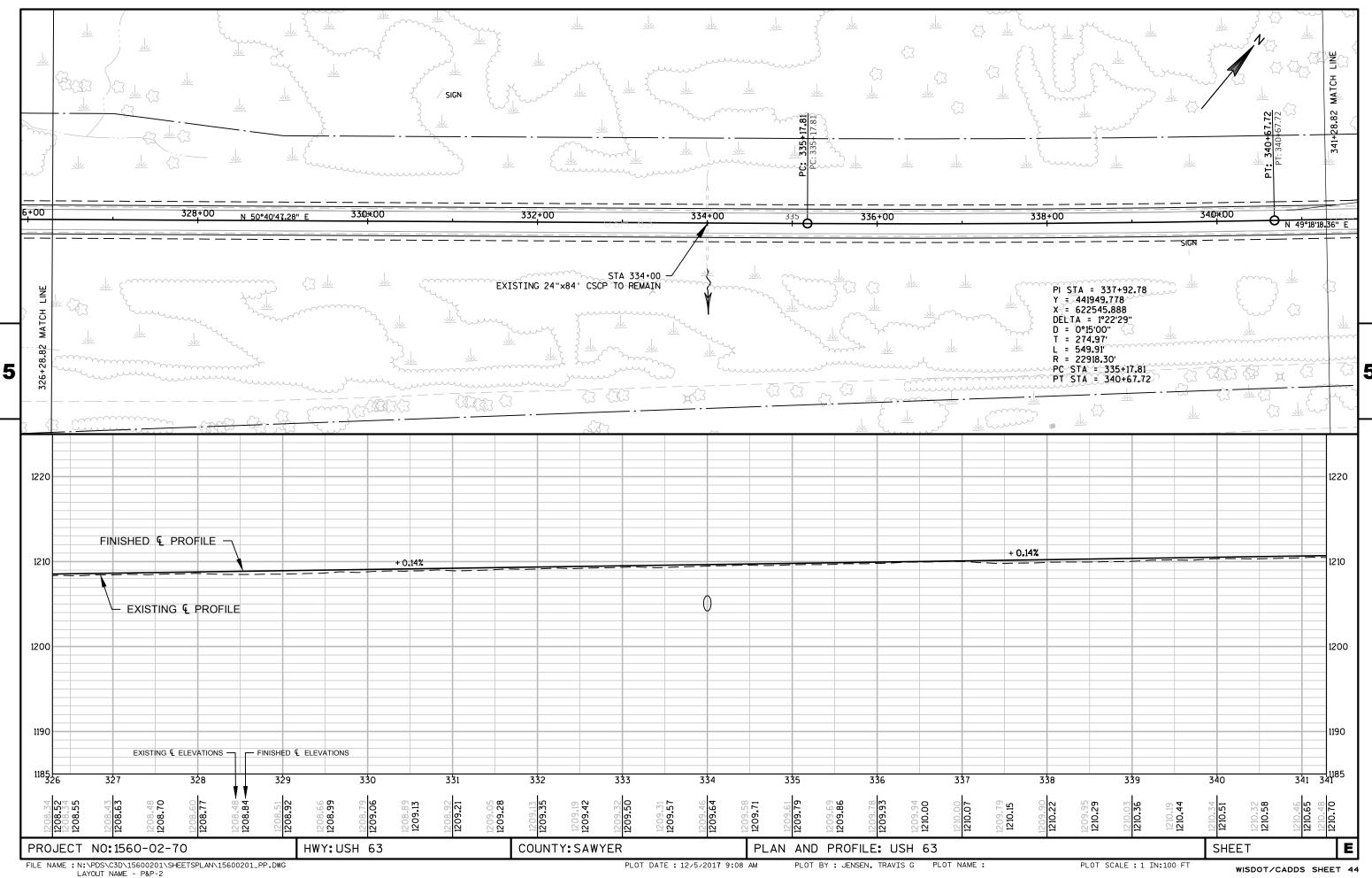
ORY	NO.	STATI ON	LOCATI ON	TRAFFI C CONTROL DRUMS 643. 0300 EACH DAY	TRAFFI C BARRI CADES 643. EACH	TYPE III	TRAFFI C WARNI NG 643. EACH	LI GHTS	TRAFFI C SI G 643. C EACH	NS	SI GN CODE		MESSAGE	
)	110.	SIMILON	EOOMIT ON	LINOI DIVI	LEIGH	Dill	Liten	Ditt	Liten	DIII	M3-1	NORTH	MADORAL	24"
)											M1 - 4	USH 63		24"
)	m ~		N OF THE CHILD AS (CHILD OF							000	M6- 1	RI GHT ARROW		21"
))	T17		N OF INT STH 77/STH 27						4	360	M4-4 M4-8	TRUCK DETOUR		24' 24'
)											M3- 1	NORTH		24'
)											M1 - 4	USH 63		24'
)	T18		S OF INT STH 27/CTH B						4	360	M4-4	TRUCK		24
)											M4-8	DETOUR		24
											M3-3	SOUTH		24
)											M1 - 4	USH 63		24
	T19		S OF INT STH 27/CTH B						5	450	M4-4	TRUCK		24
											M4-8	DETOUR		24
											M3- 1	NORTH		24
											M1 - 4	USH 63		24
											M5-1R	RIGHT TURN ARROW		21
	T20		S OF INT STH 27/CTH B						5	450	M4-4	TRUCK		24
											M4-8	DETOUR		24
											MB- 1	NORTH		24
											M1 - 4	USH 63		24
											M6- 1	RI GHT ARROW		21
	T21		E OF INT STH 27/CTH B						4	360	M4-4	TRUCK		24
											M4-8	DETOUR		24
											M3-1	NORTH		24
											M1 - 4	USH 63		24
	T22		E OF INT STH 27/CTH B						5	450	M4-4	TRUCK		24
											M4-8	DETOUR		24
											MB-3	SOUTH		24
											M1 - 4	USH 63		24
											M5-1L	LEFT TURN ARROW		21
	T23		E OF INT STH 27/CTH B						5	450	M4-4	TRUCK		24
1											M4-8	DETOUR		24
											MB-3	SOUTH		24
											M1 - 4	USH 63		24
											M6- 1	LEFT ARROW		21
	T24		W OF INT USH 2/STH 27						10	900	M4-4	TRUCK		24
)											M4-8	DETOUR NORTH		24
))											M3- 1 M1- 4	NORTH USH 63		24' 24'
)											M1 - 4 M4 - 4	TRUCK		24 24
			SUBTOTAL 0010	0 0		0		0	42	3780)			

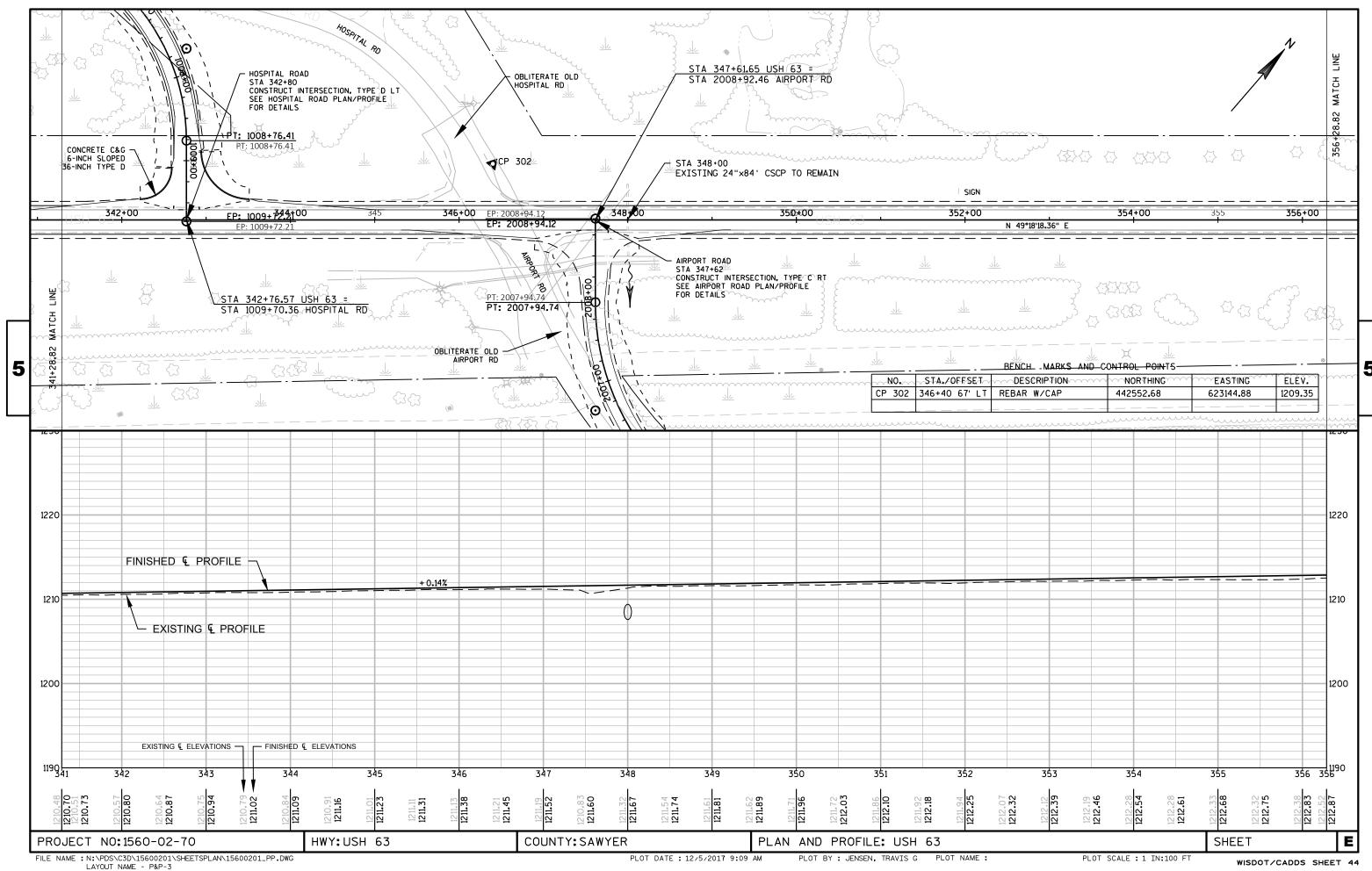
					TRAFFIC CONTROL BARRICADES TYPE III		TRAFFIC CONTROL WARNING LIGHTS		TRAFFI C CONTROL SI GNS						
ORY	NO.	STATI ON	LOCATI ON	643. EACH	0300 DAY	643. 0 EACH	420 DAY	643. (EACH	D705 DAY	643. (EACH	0900 DAY	SI GN CODE		MESSAGE	
0 0 0	NO.	SIAIIUN	LOCATION	EACI	DAI	EACH	DAI	EACH	DAI	ЕАСП	DAI	M4-8	DETOUR	WESSAGE	24
0												M3-3	SOUTH		24
0												M1 - 4	USH 63		24
0												W20- 2A	DETOUR AHEAD		36 24
0 0												M4- 4	TRUCK		24
0	T25		W OF INT USH 2/STH 27							10	900	M4- 4	TRUCK		24
0												M4-8	DETOUR		24
0												M3-1	NORTH		24
)												M1 - 4	USH 63		24
)												M6- 1	UP ARROW		2
0												M4-4	TRUCK		24
0												M4-4 M4-8	DETOUR		24
0 0												M3-3	SOUTH		24
0												M1 - 4	USH 63		24
0												M5-1R	RIGHT TURN ARROW		2
												1120 1110	Widii idwi iiwww		~
)	T26		W OF INT USH 2/STH 27							10	900	M4- 4	TRUCK		2
0												M4-8	DETOUR		24
0												MB- 1	NORTH		24
0												M1 - 4	USH 63		24
)												M6- 1	UP ARROW		2
0												М4-4	TRUCK		24
0												M4-8	DETOUR		2
0												M3-3	SOUTH		24
)												M1 - 4	USH 63		2
)												M6- 1	RI GHT ARROW		2
0	T27		S OF INT USH 2/STH 27							5	450	M4-4	TRUCK		2
)												M4-8	DETOUR		2
0												M3-1	NORTH		24
)												M1 - 4	USH 63		2
)												M5-1R	RI GHT TURN ARROW		2
)	T28		S OF INT USH 2/STH 27							5	450	M4-4	TRUCK		2
O												M4-8	DETOUR		2
0												M3- 1	NORTH		24
0												M1 - 4	USH 63		24
0												M6- 1	RI GHT ARROW		2
)	T29		E OF INT USH 2/STH 27							4	360	M4-4	TRUCK		2
0												M4-8	DETOUR		24
0												M3- 1	NORTH		24
0												M1 - 4	USH 63		24
)	T30		E OF INT USH 2/STH 27							5	450	M4-4	TRUCK		24
			SUBTOTAL 0010	(0	0	0	0	0	39	3510	_			
			т						 						
	IECT NO	D: 1560-02-70	HWY: USI	1 63		I COUNTY:	SAWYER		I MIS	CELLANEOU	IS QUANTIT	ΓIFS		SHEET:	

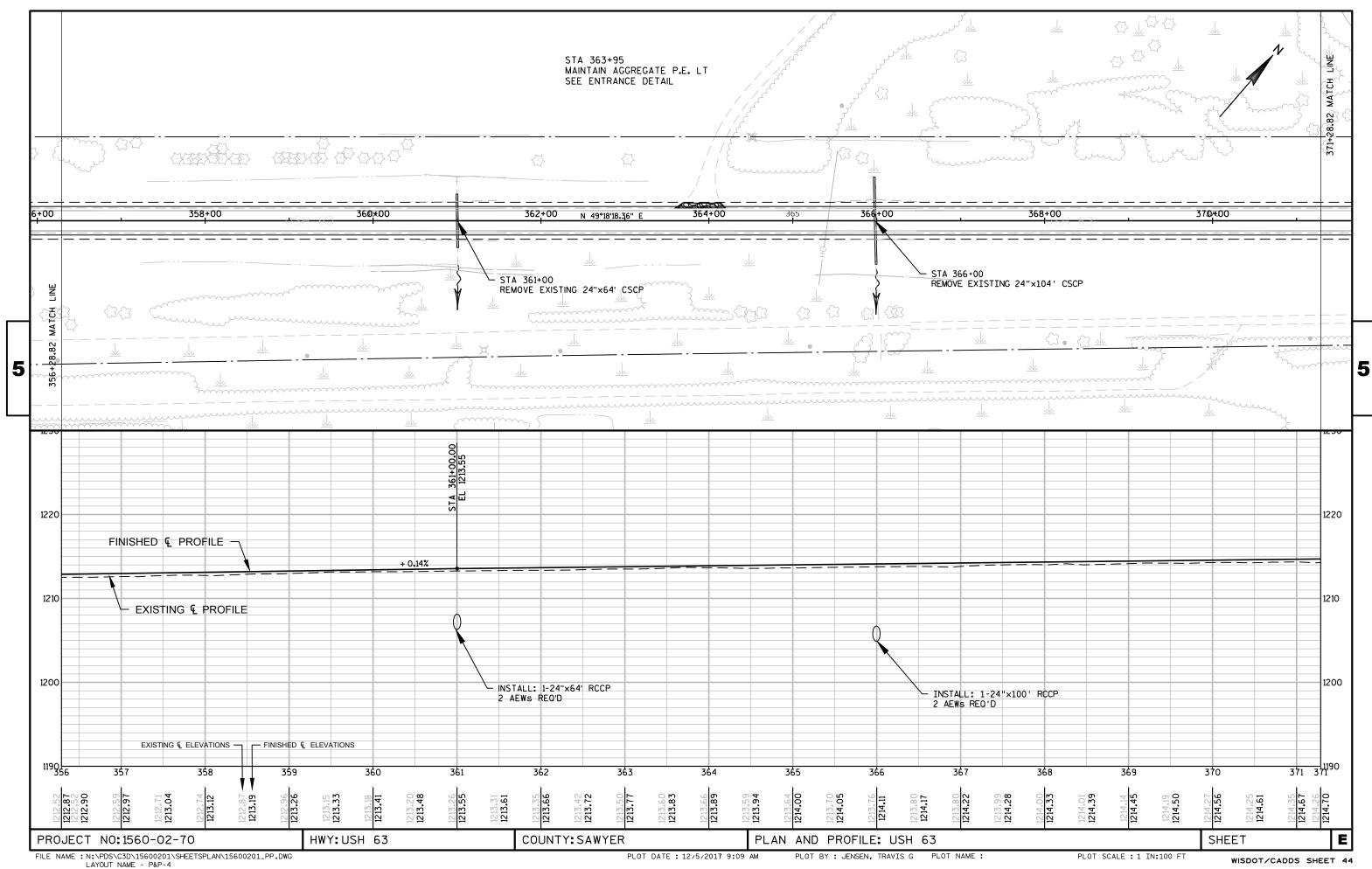
TDAFFIC CONTROL SHAMADY

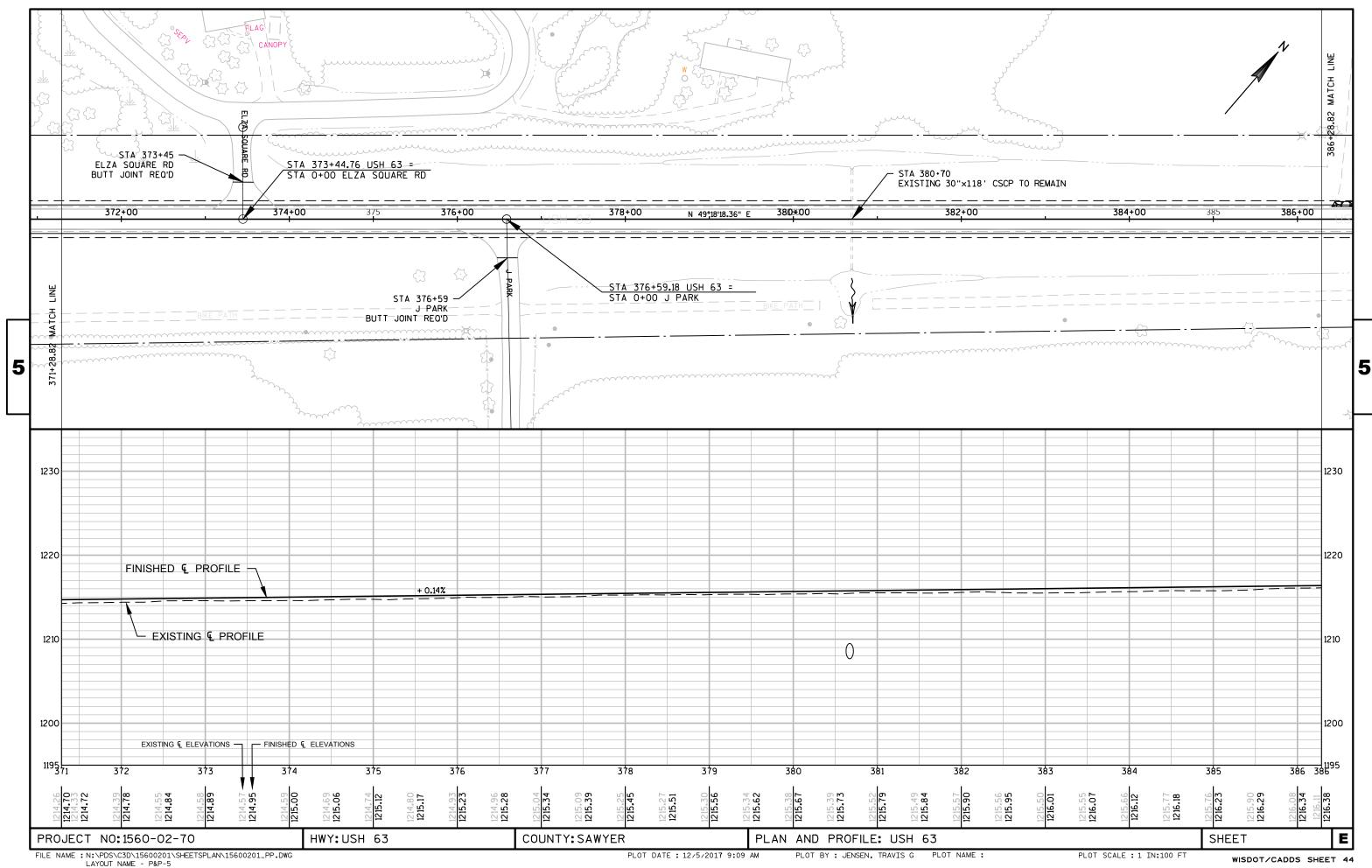
							TRAFFI	C CONTROL SUN	<u>MMARY</u>							
TEGORY	NO.	STATI ON	LOCATI ON	TRAFFIC CONTI DRUMS 643. 0300 EACH DA		TRAFFIC CON BARRICADES TY 643. 0420 EACH	PE III	TRAFFIC CONT WARNING LIG 643.0705 EACH	HTS	TRAFFIC O SIGN 643. 0 EACH	IS	SIGN CODE	,	MESSAGE		SI
)10)10)10)10)10)10	T31	STATION	E OF INT USH 2/STH 27	LACII DA	1	LACII	DAT	LACII E	A1	5	450	M4- 8 M3- 3 M1- 4 M5- 1L M4- 4	DETOUR SOUTH USH 63 LEFT TURN ARROW TRUCK	MESSAUL		24"X12 24"X12 24"X24 24"X24 21"X21 24"X12
10 10 10 10 10	T32		E OF INT USH 2/USH 63							4	360	M4-8 M3-3 M1-4 M6-1 M4-6	DETOUR SOUTH USH 63 LEFT ARROW END			24"X1 24"X1 24"X2 21"X2 24"X1
10 10 10 10 10	Т33		E OF INT USH 2/USH 63							4	360	M4-8 M3-1 M1-4 M3-3 M1-4	DETOUR NORTH USH 63 SOUTH USH 63			24"X1 24"X1 24"X2 24"X1 24"X1
10 10 10 10 10	T34		E OF INT USH 2/USH 63							5	450	W20- 2A M4- 4 M4- 4 M4- 8 M3- 3	DETOUR AHEAD TRUCK TRUCK DETOUR SOUTH			36"X3 24"X1 24"X1 24"X1 24"X1
10 10 10 10 10	T35		E OF INT USH 2/USH 63							5	450	M1 - 4 M6 - 1 M4 - 4 M4 - 8 M3 - 3	USH 63 UP ARROW TRUCK DETOUR SOUTH			24"X2 21"X2 24"X1 24"X1 24"X1
)10)10			SUBTOTAL 0010	0 =	0	0	0	= 0	0	23	2070	M1 - 4 M6 - 1	USH 63 UP ARROW			24"X2 21"X2
			TOTAL 0010	162	2148	3640	3600	80	7200	480	39936	<u></u>				
PROJ	ECT NO	D: 1560-02-70	HWY: USI	H 63		COUNTY: S	SAWYER		MISCE	LLANEOU	S QUANTIT	TIES			SHEET:	E

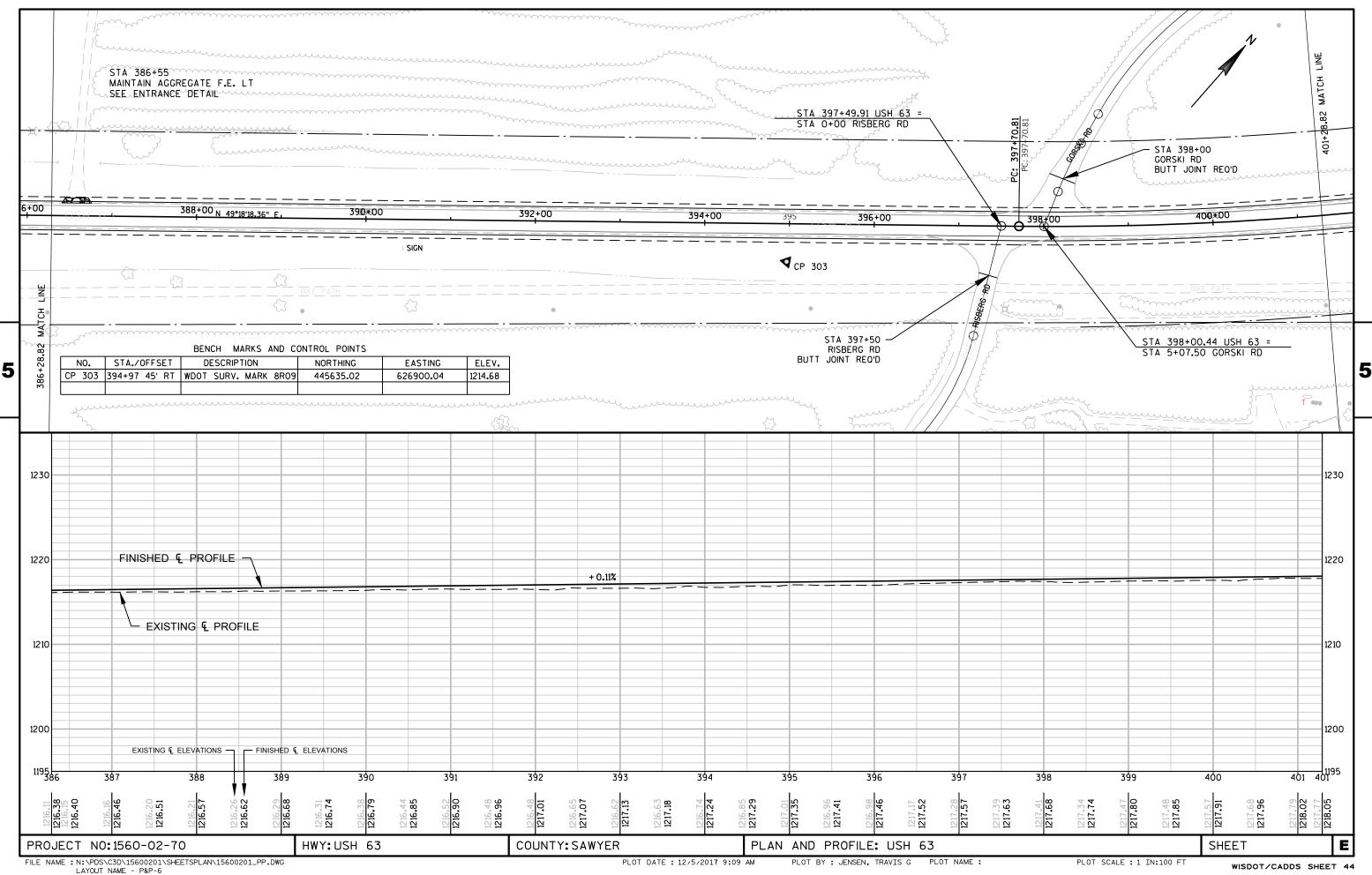


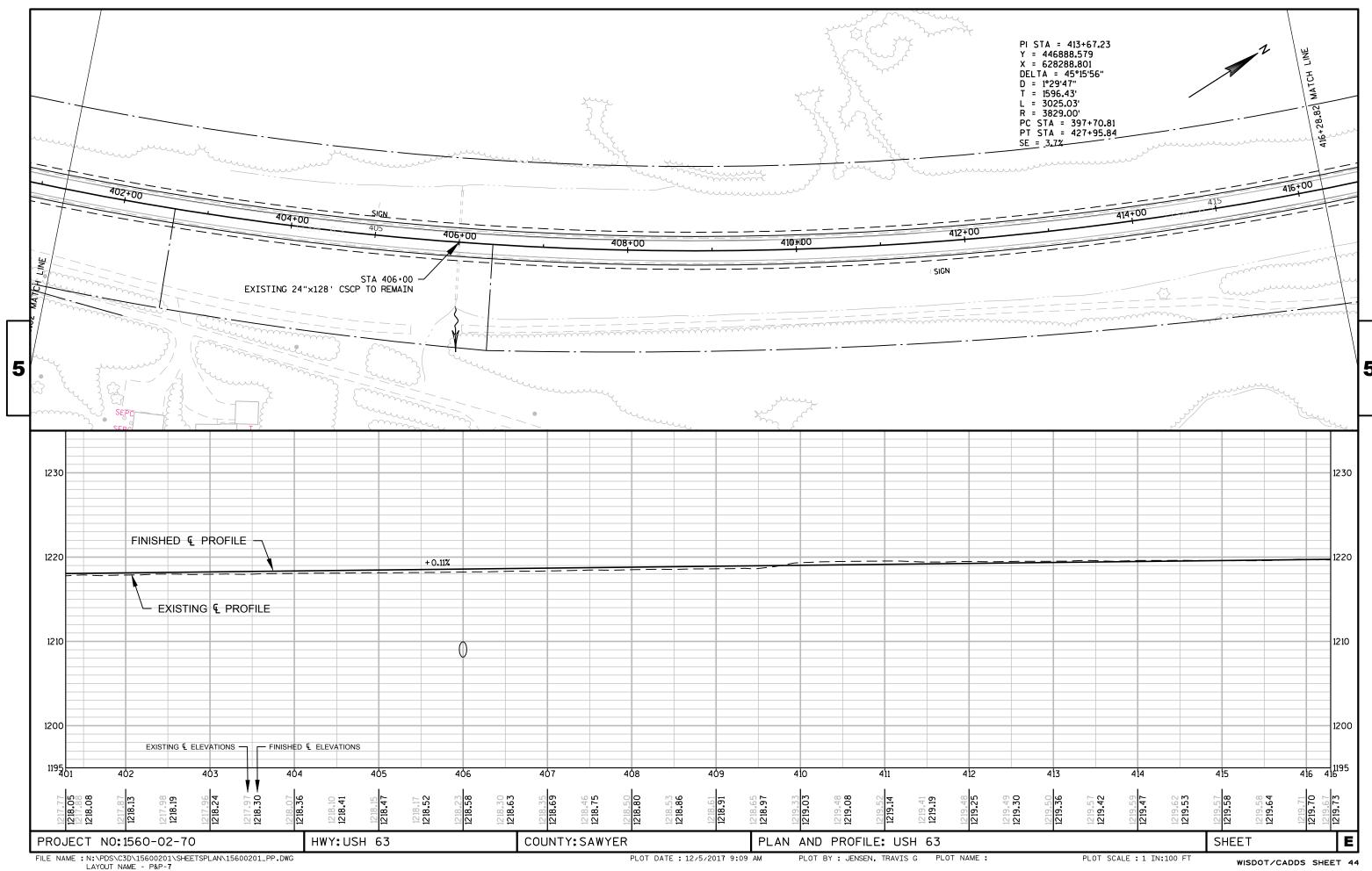


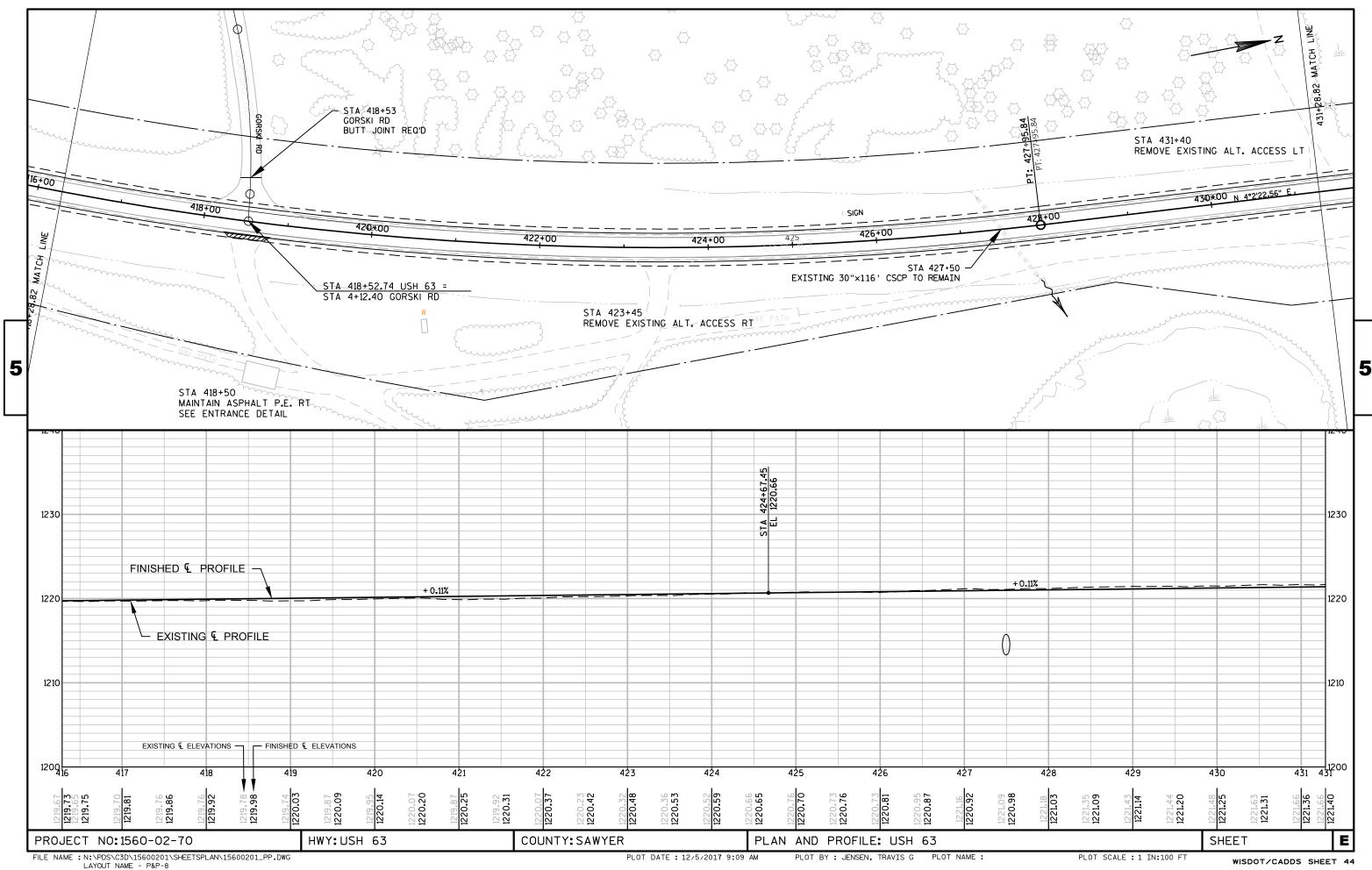


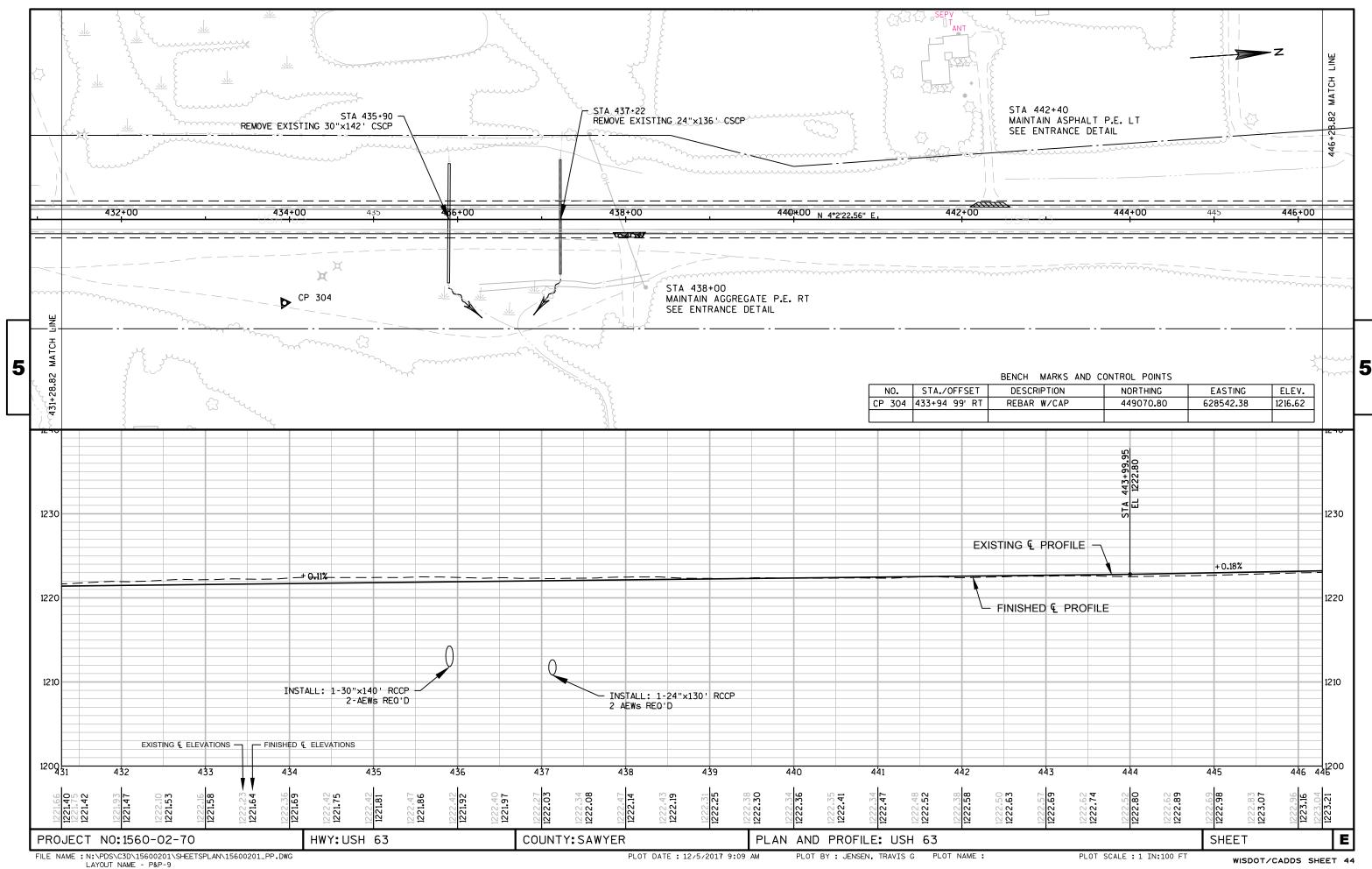


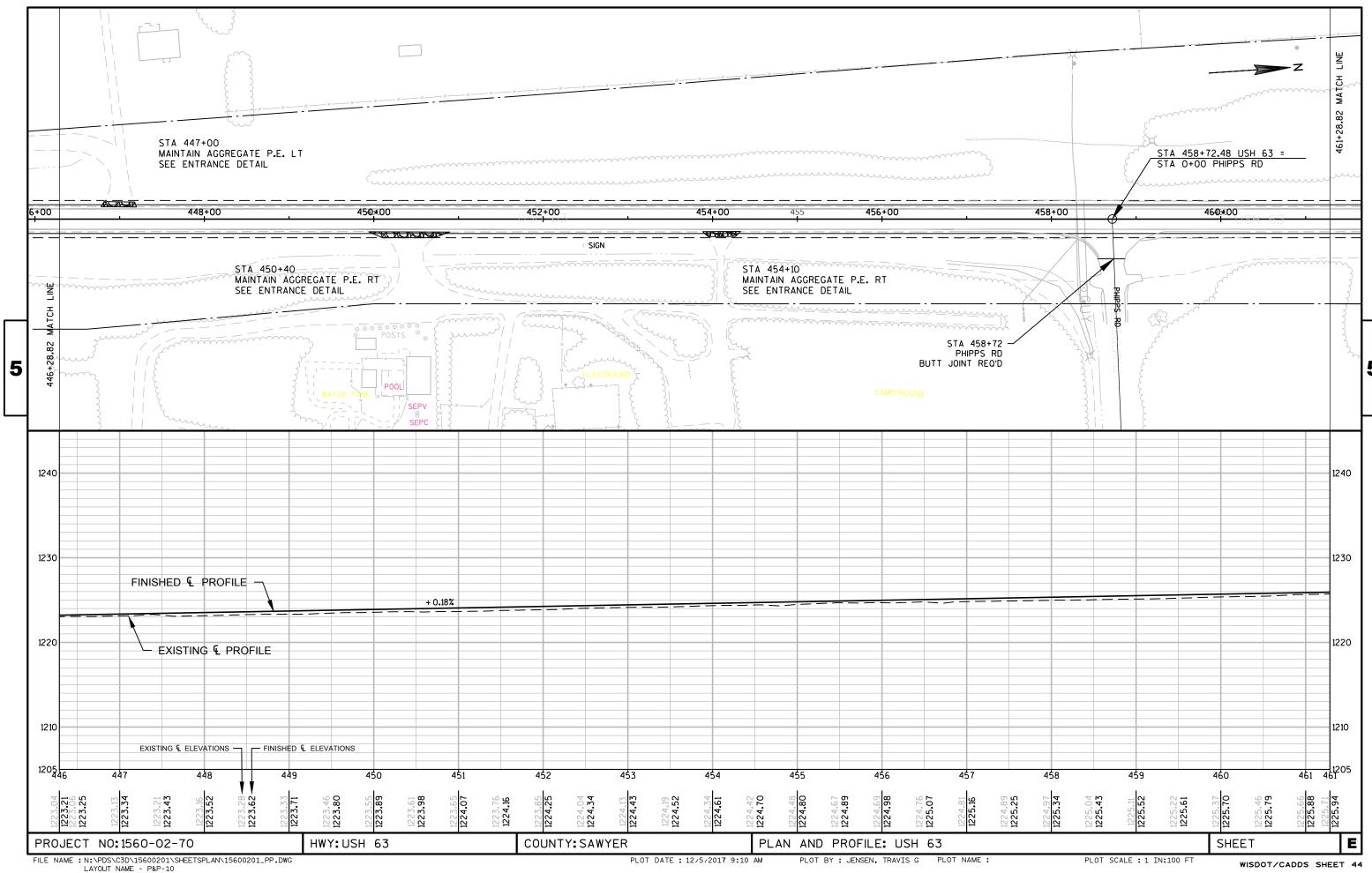


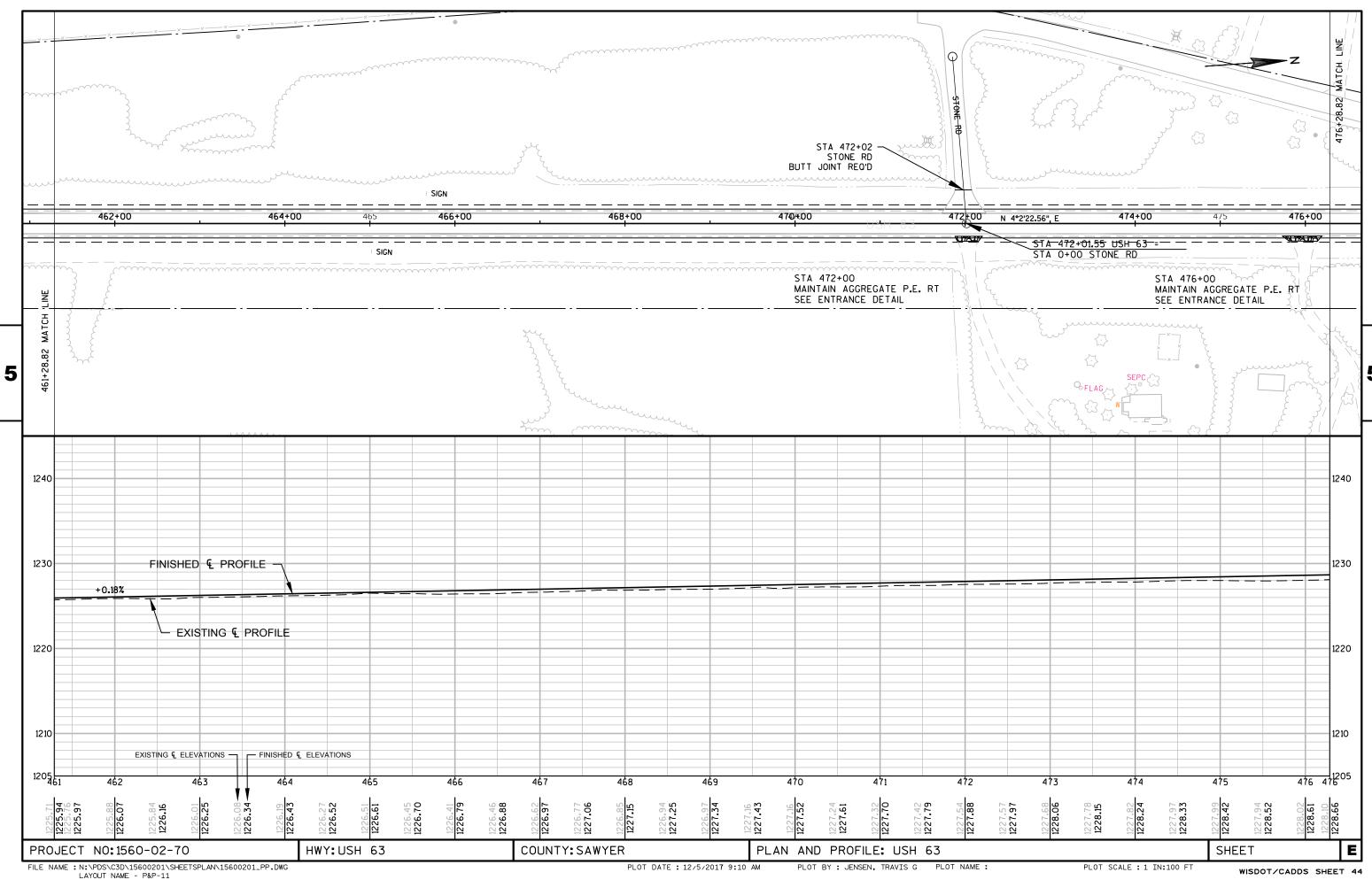


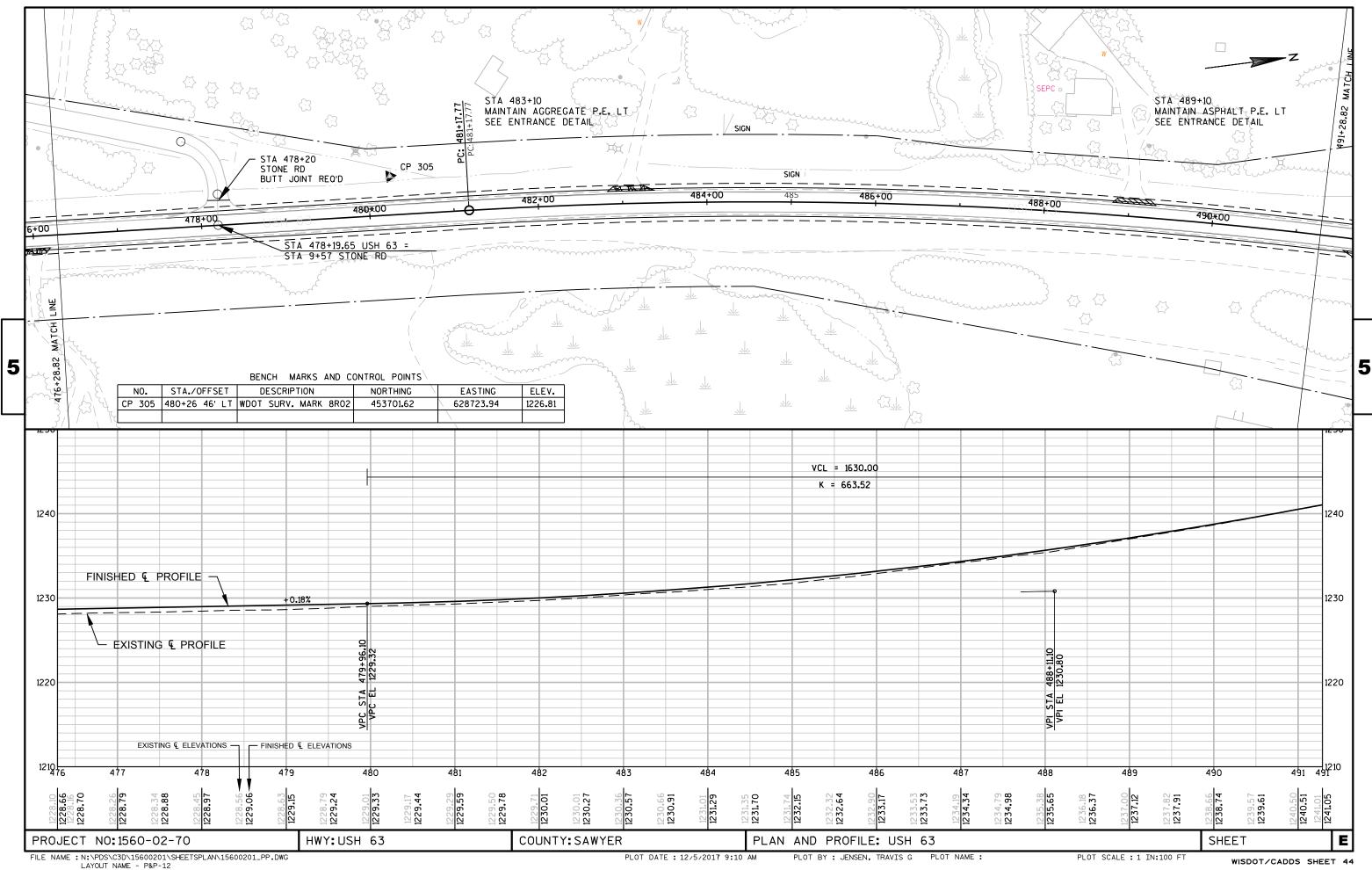


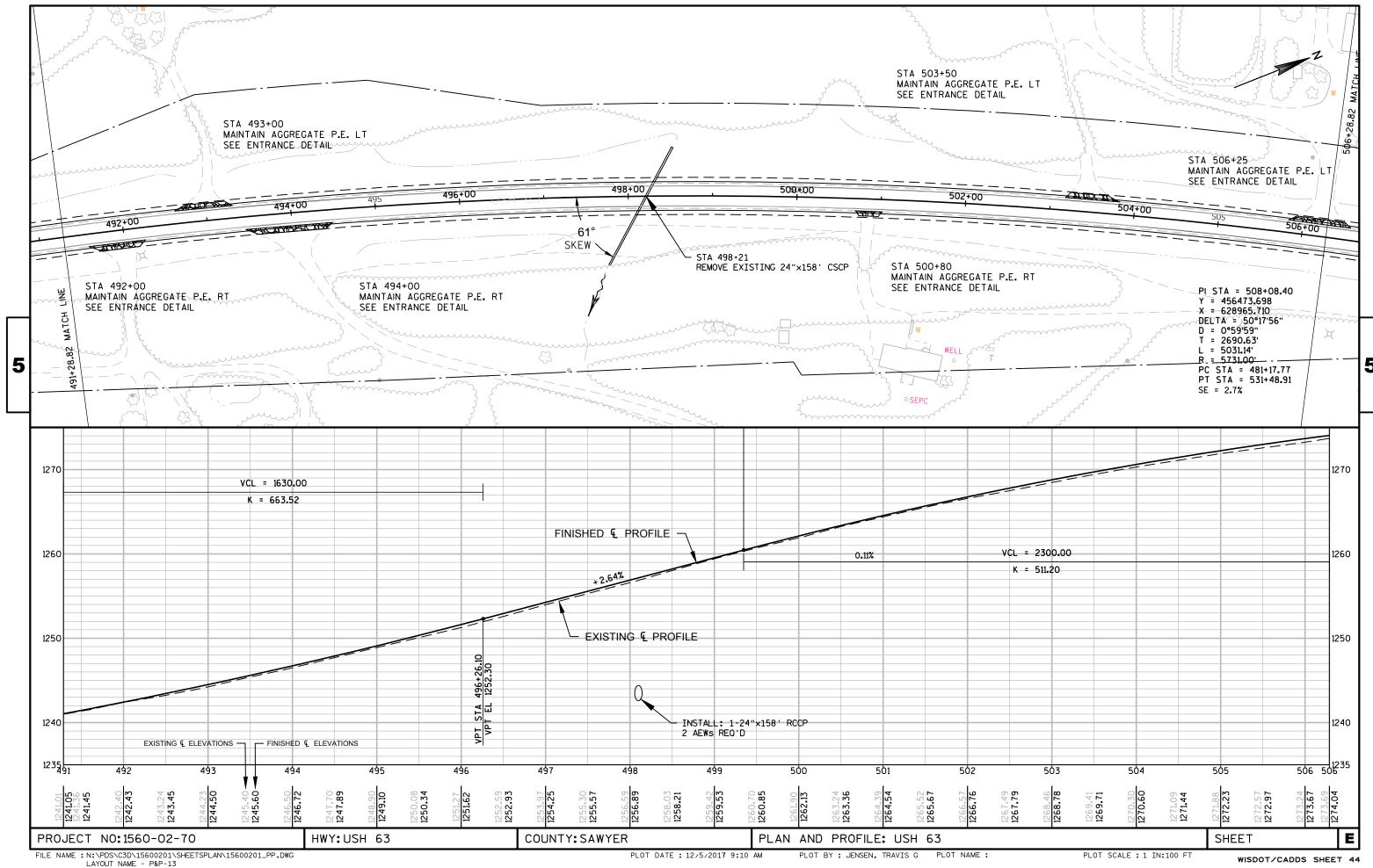


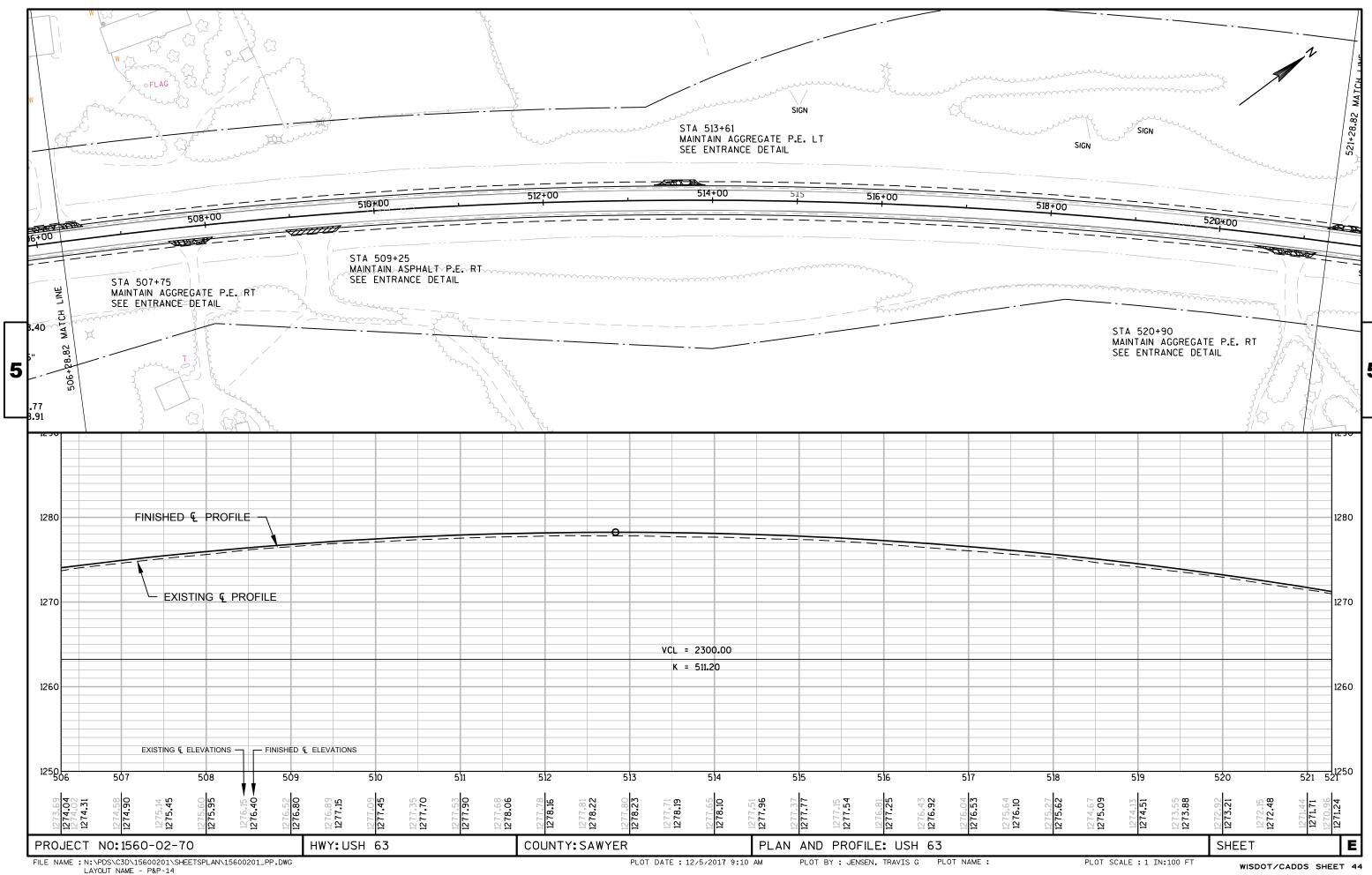


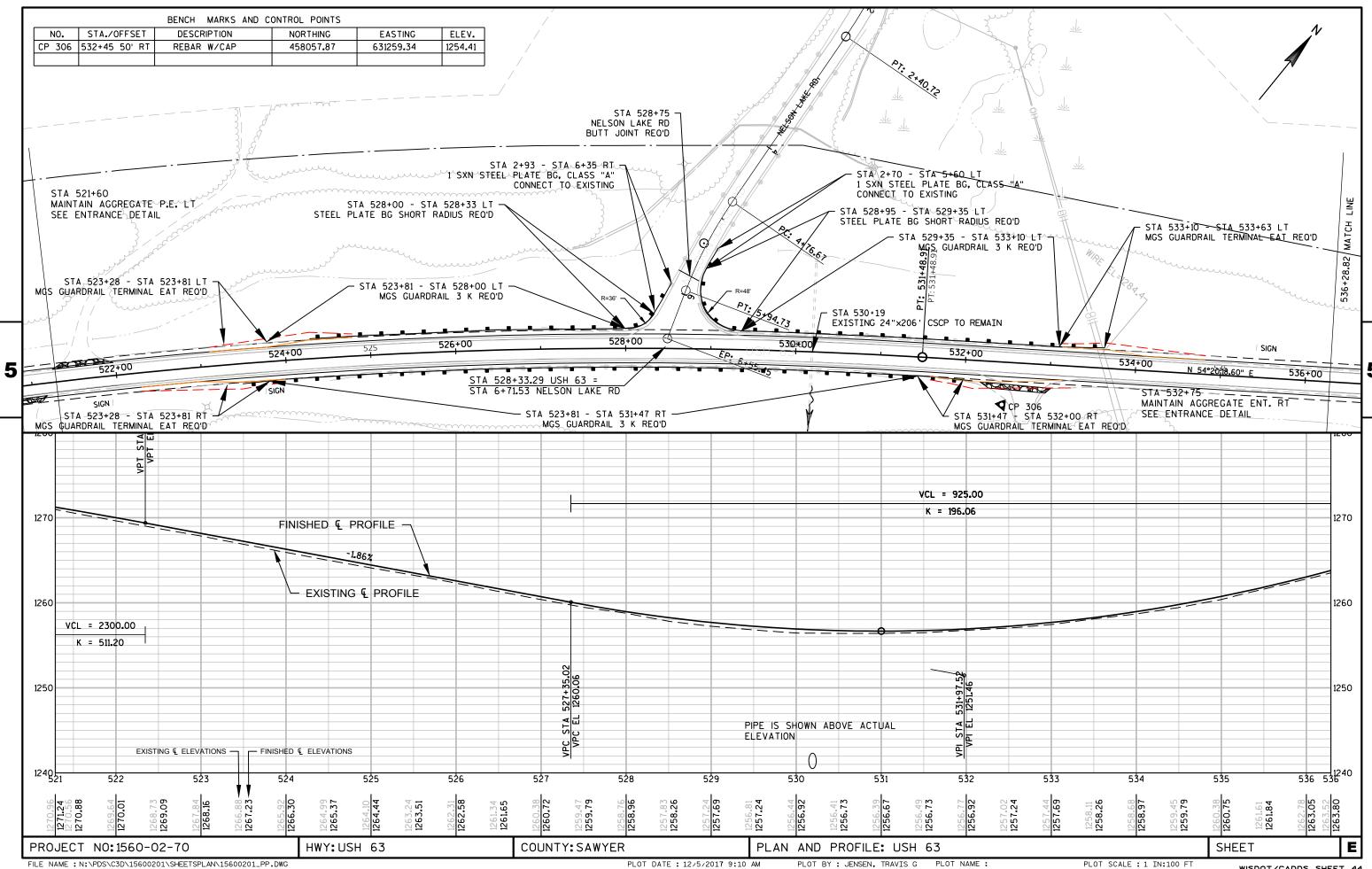


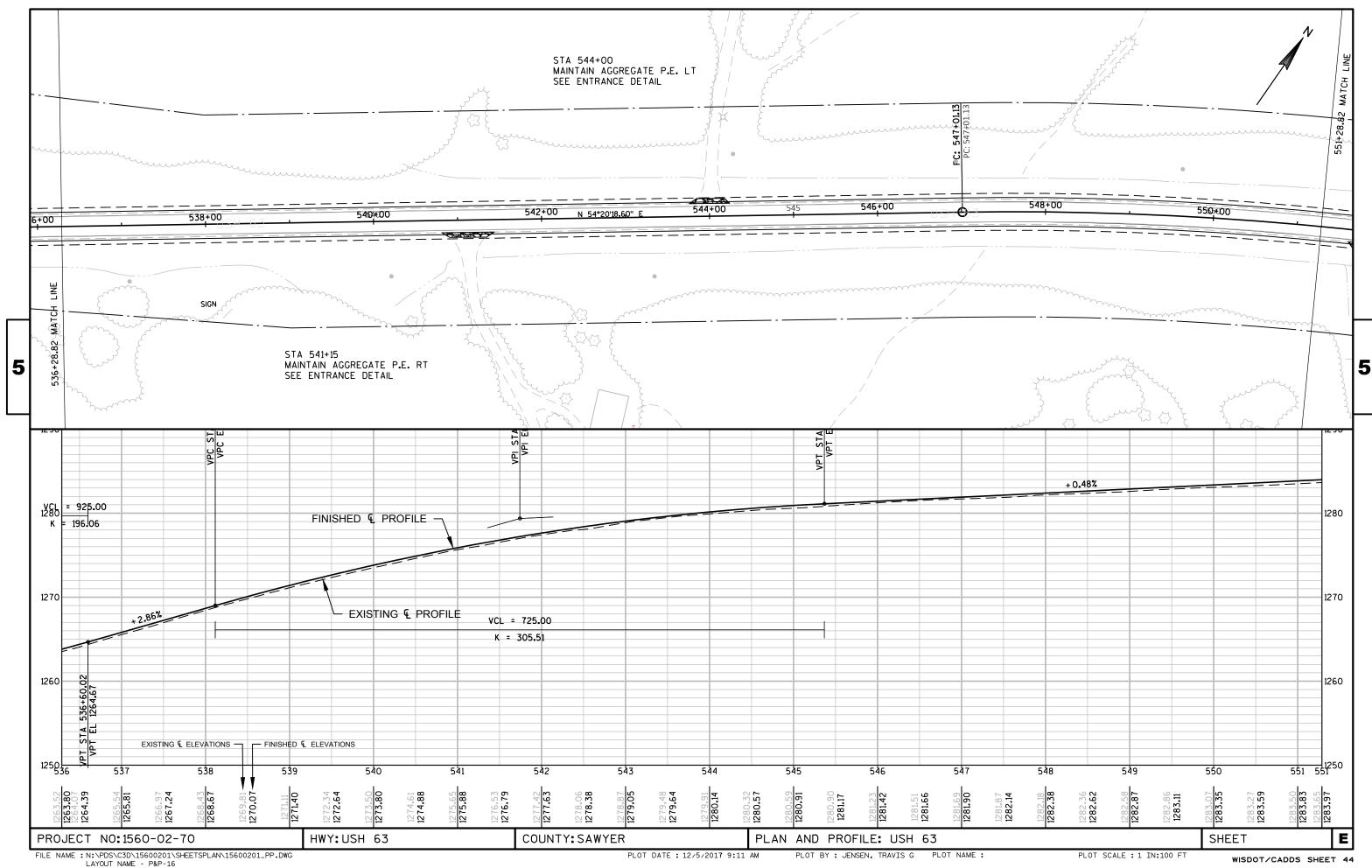


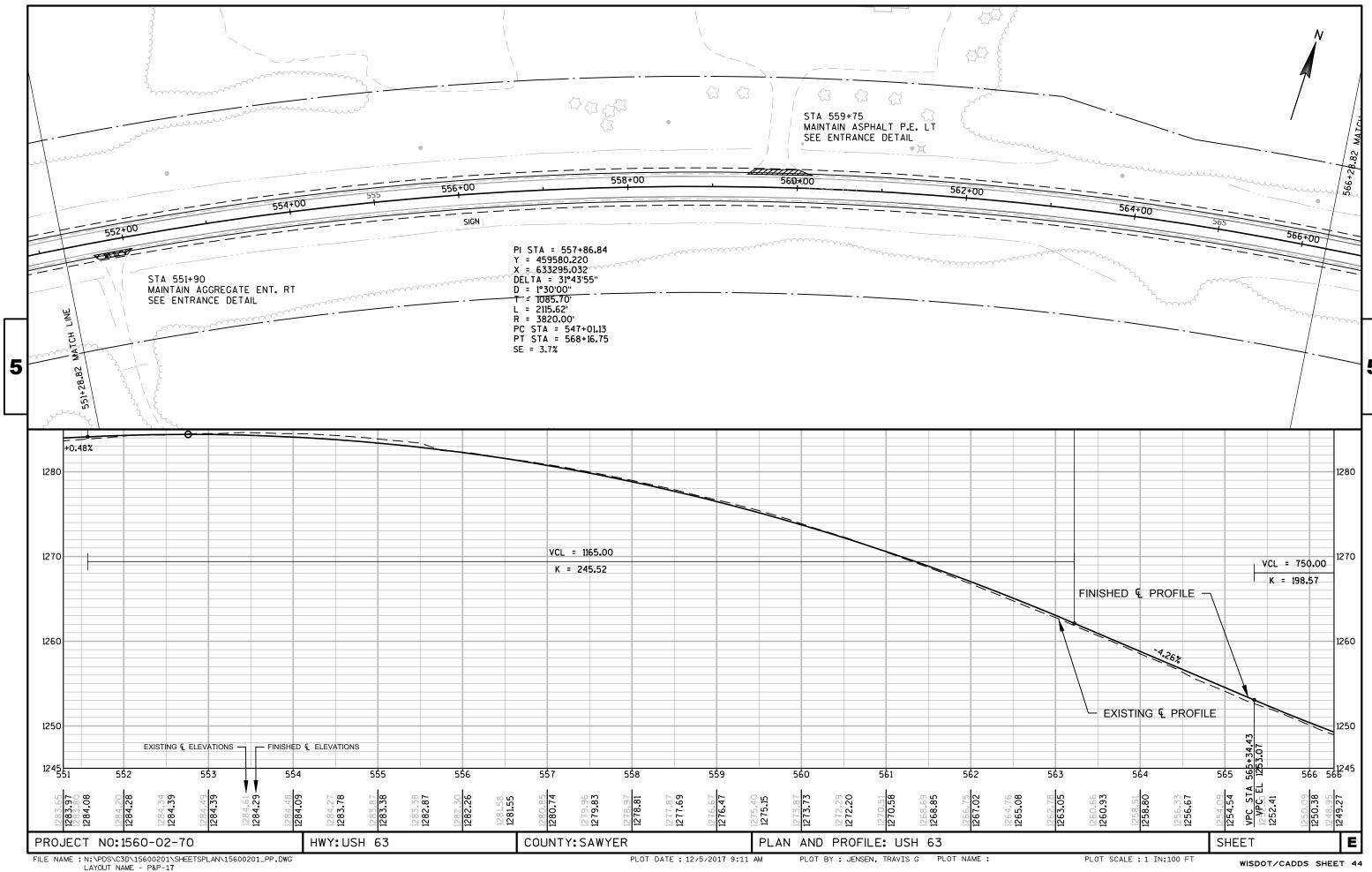


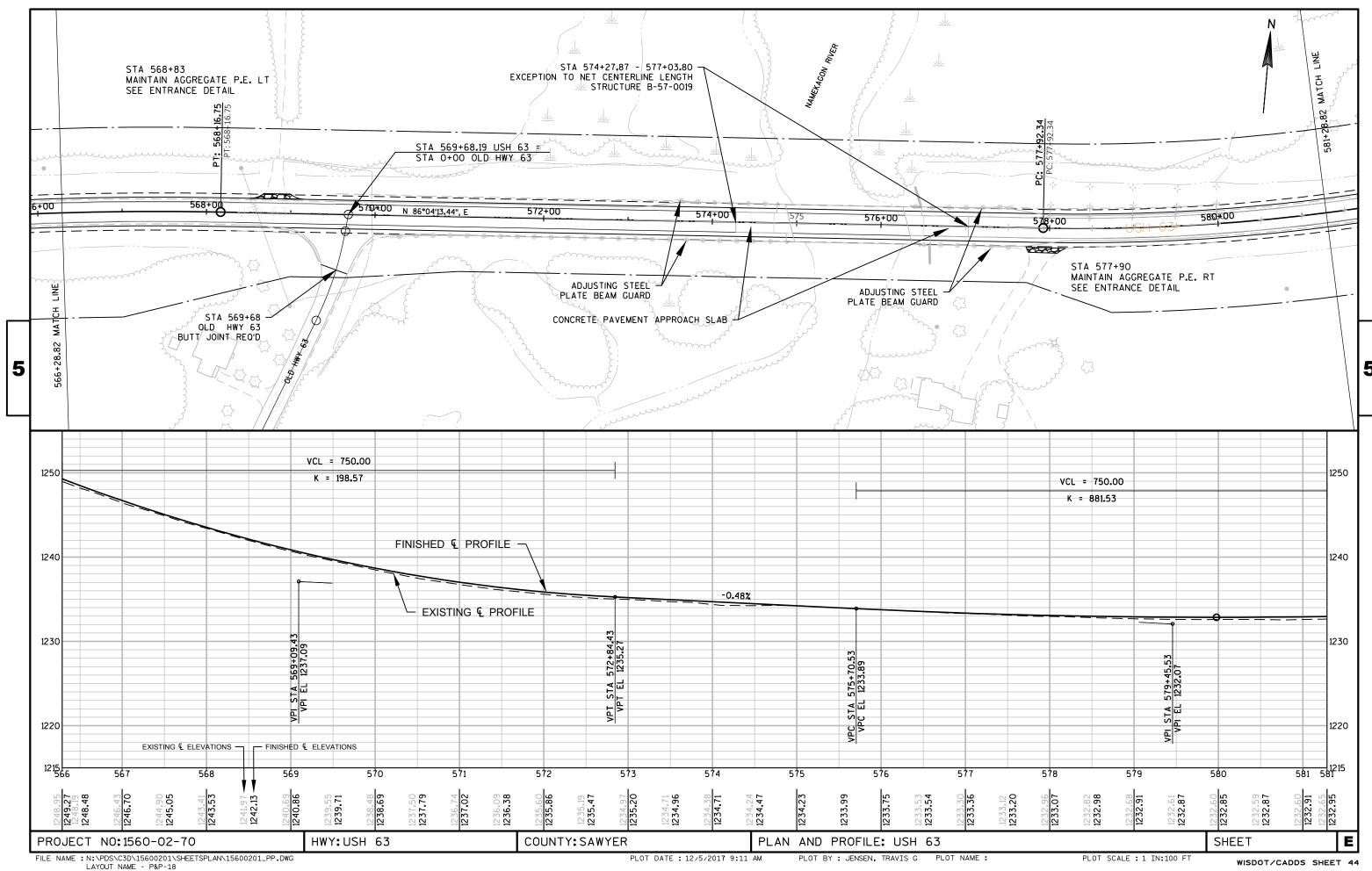


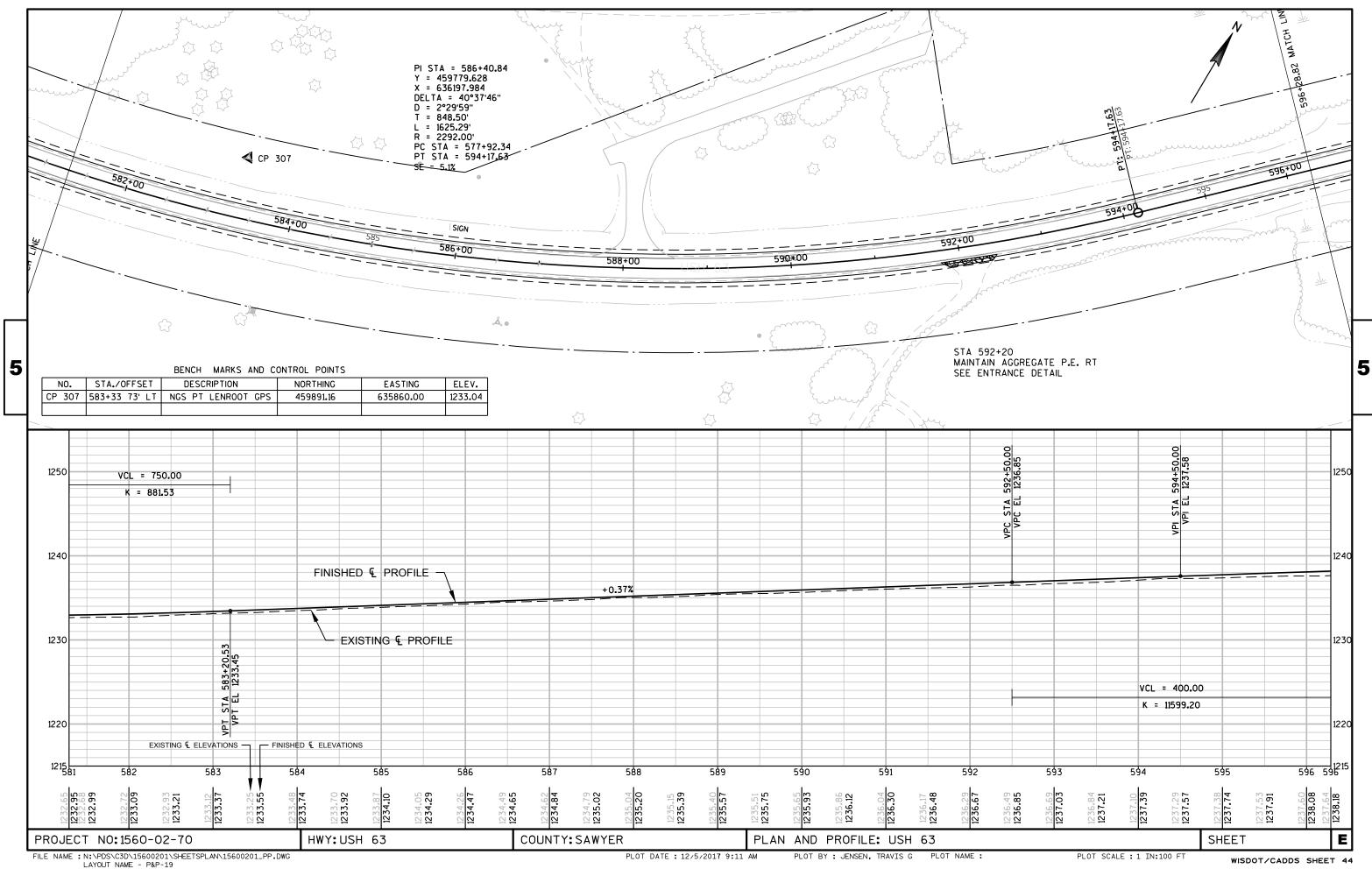


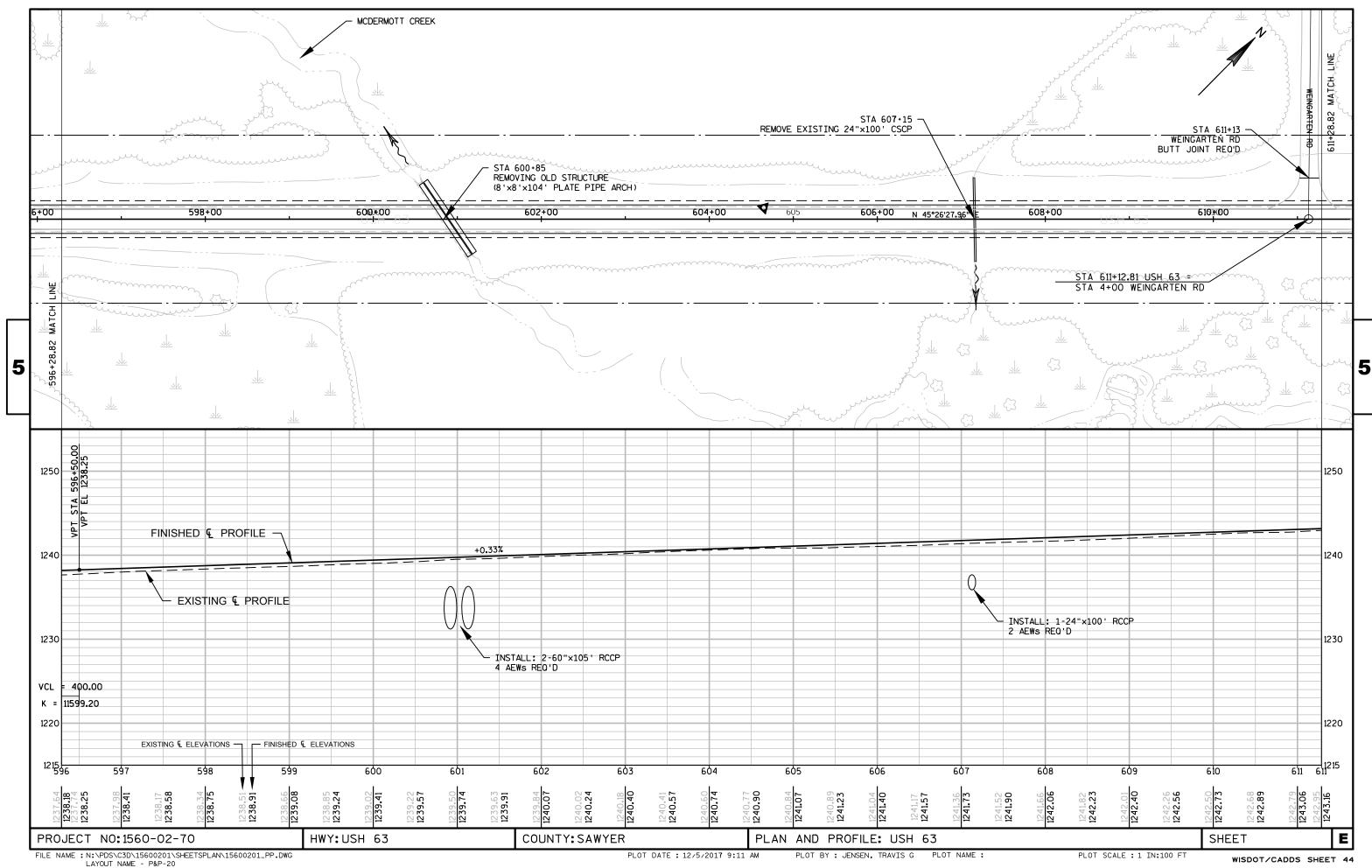


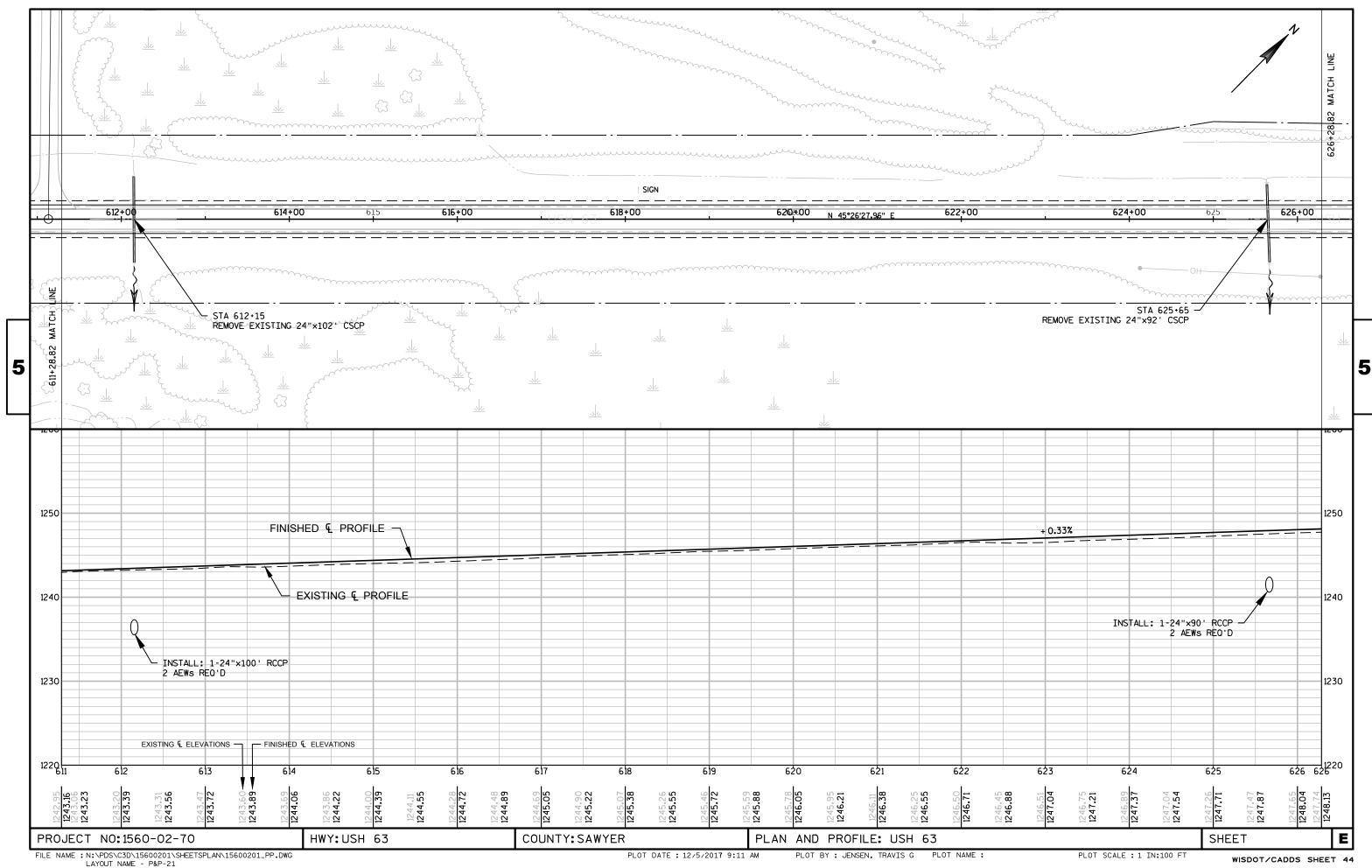


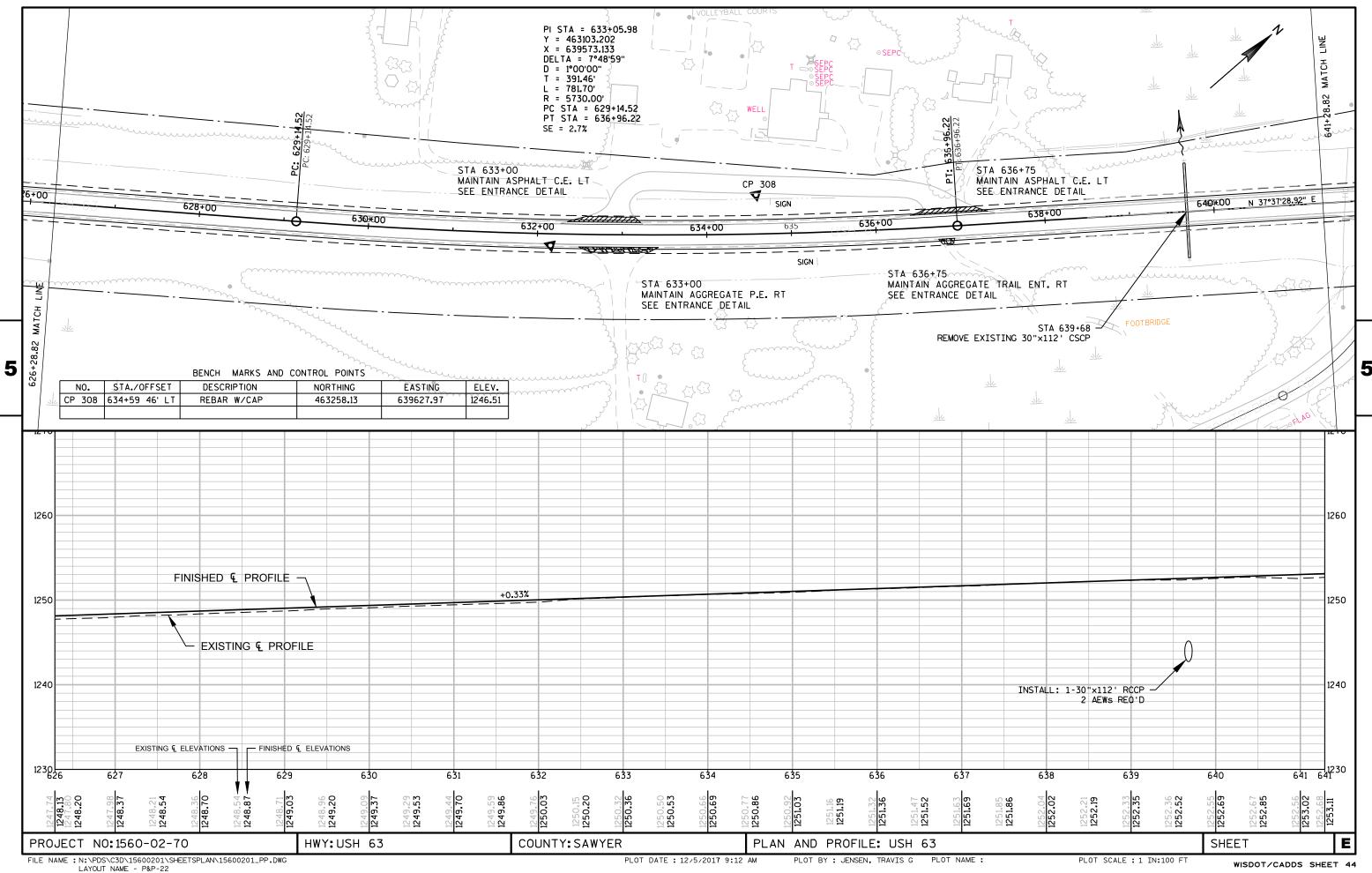


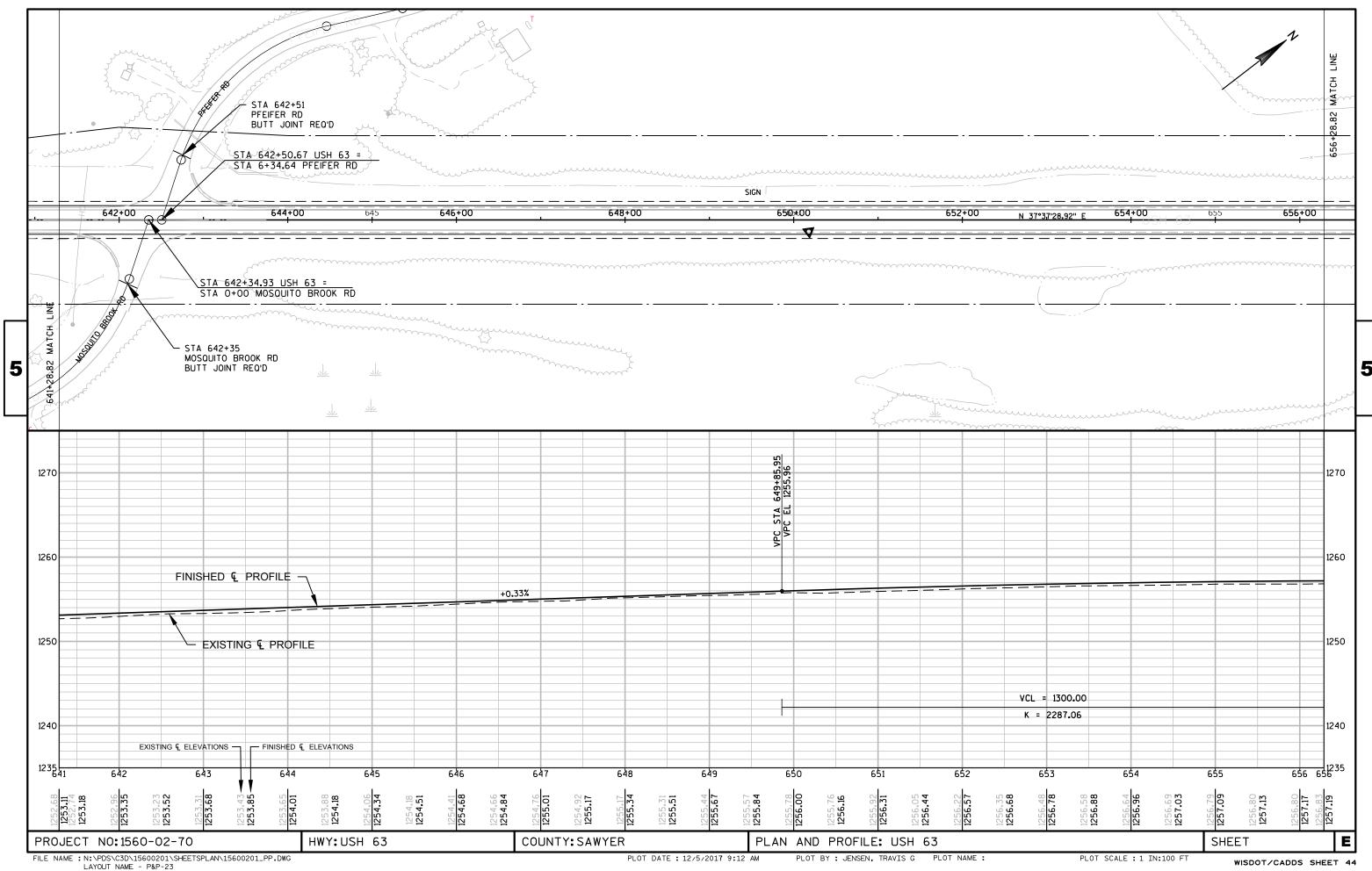


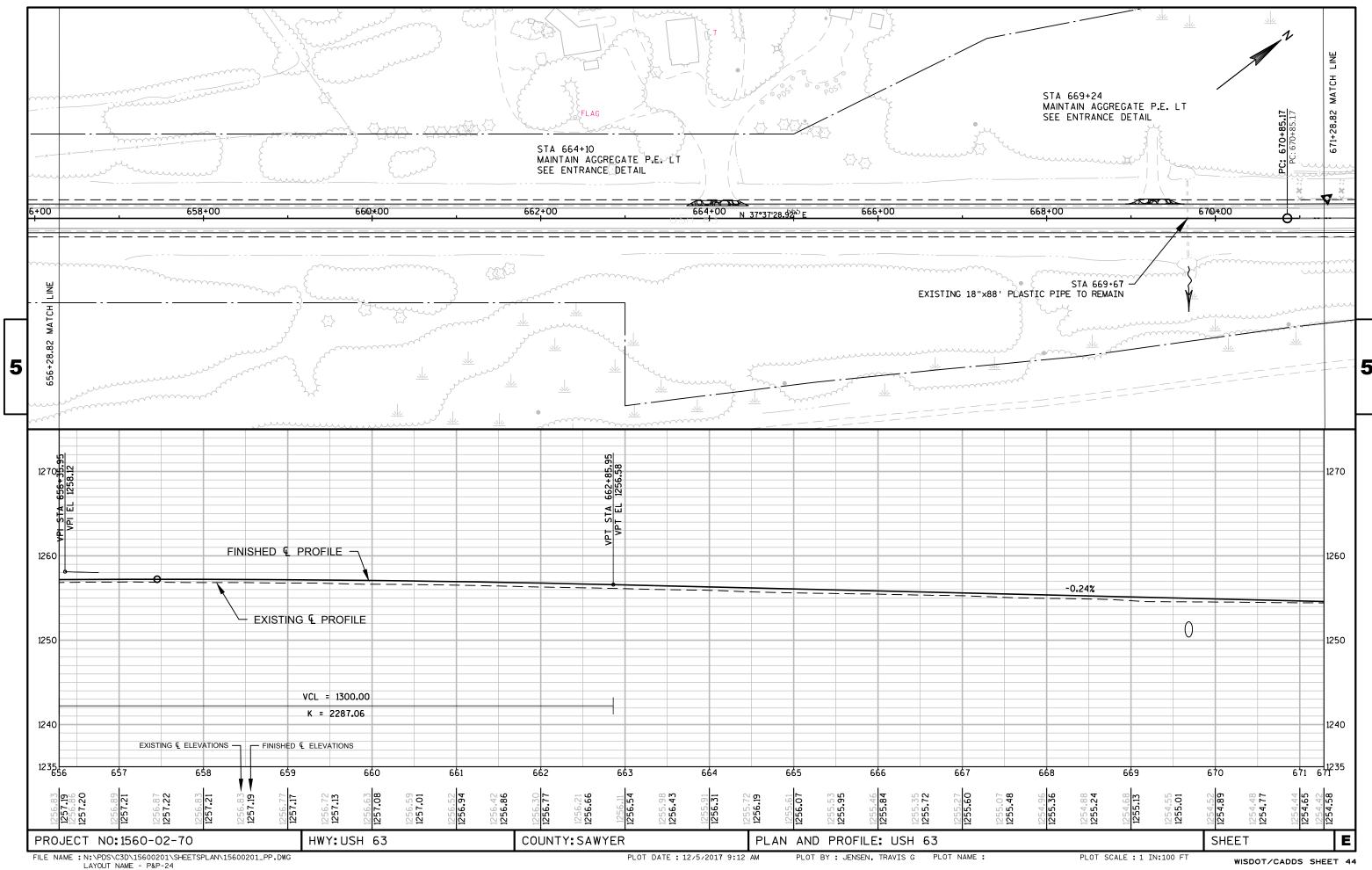


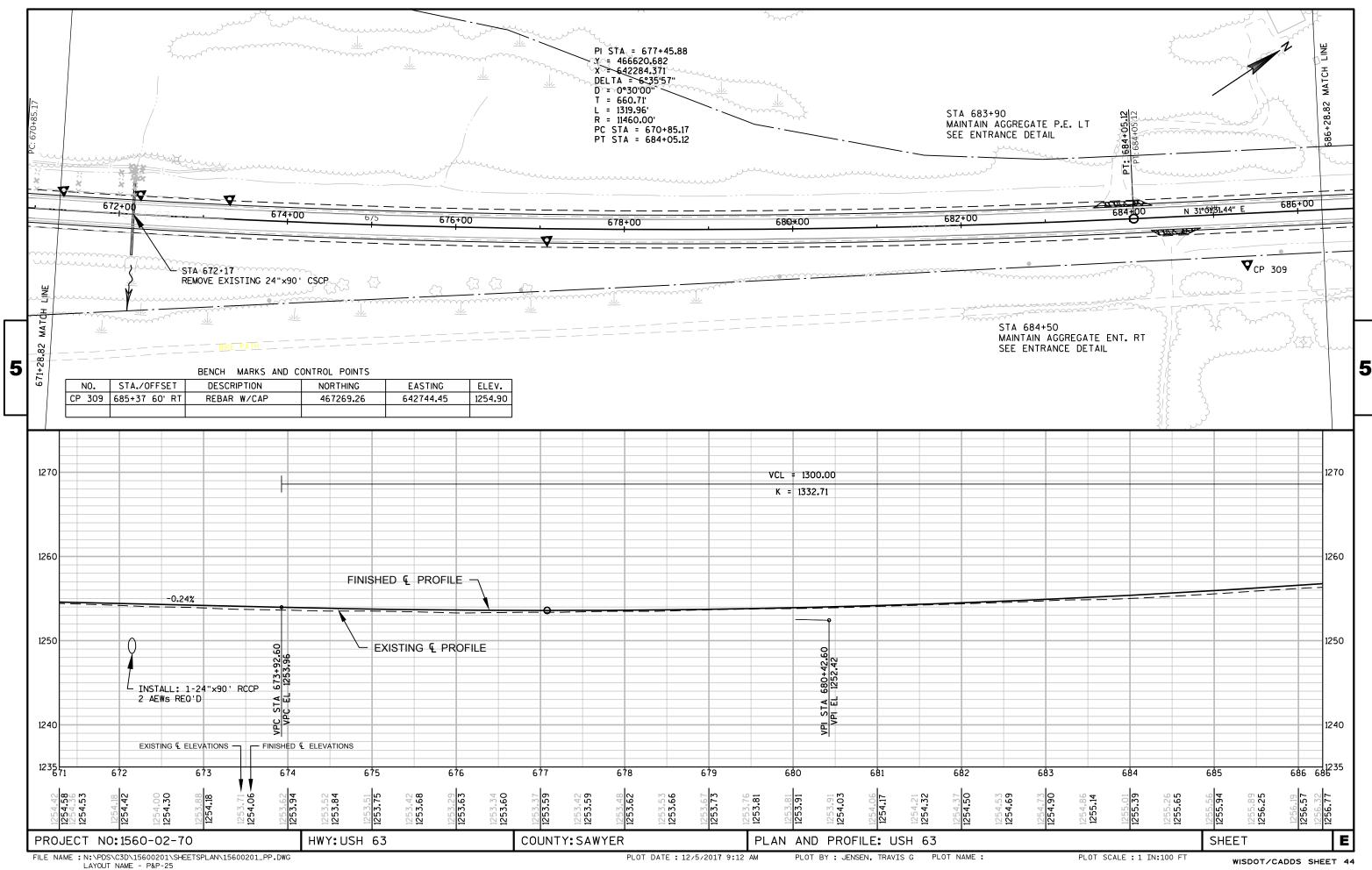


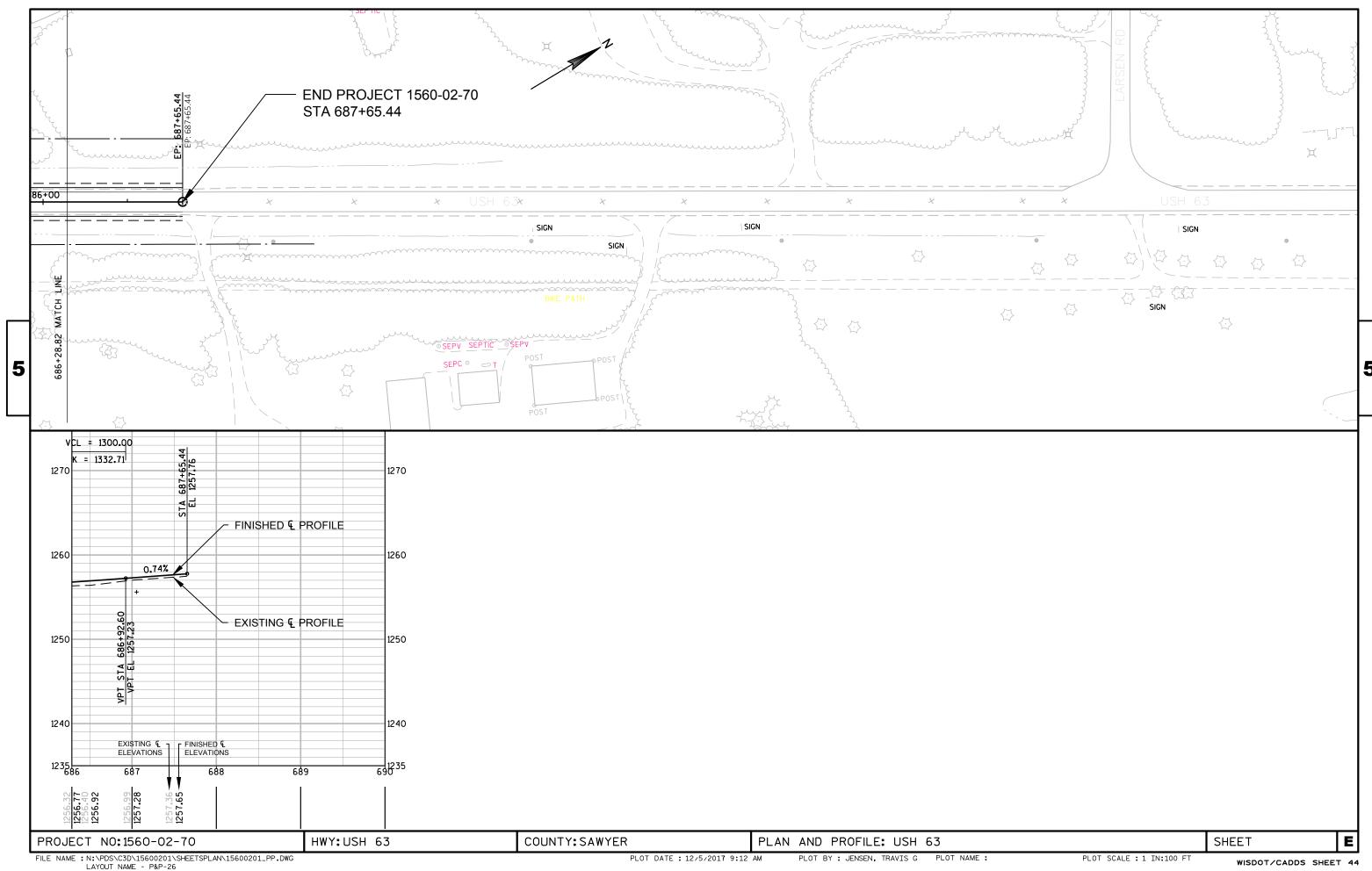


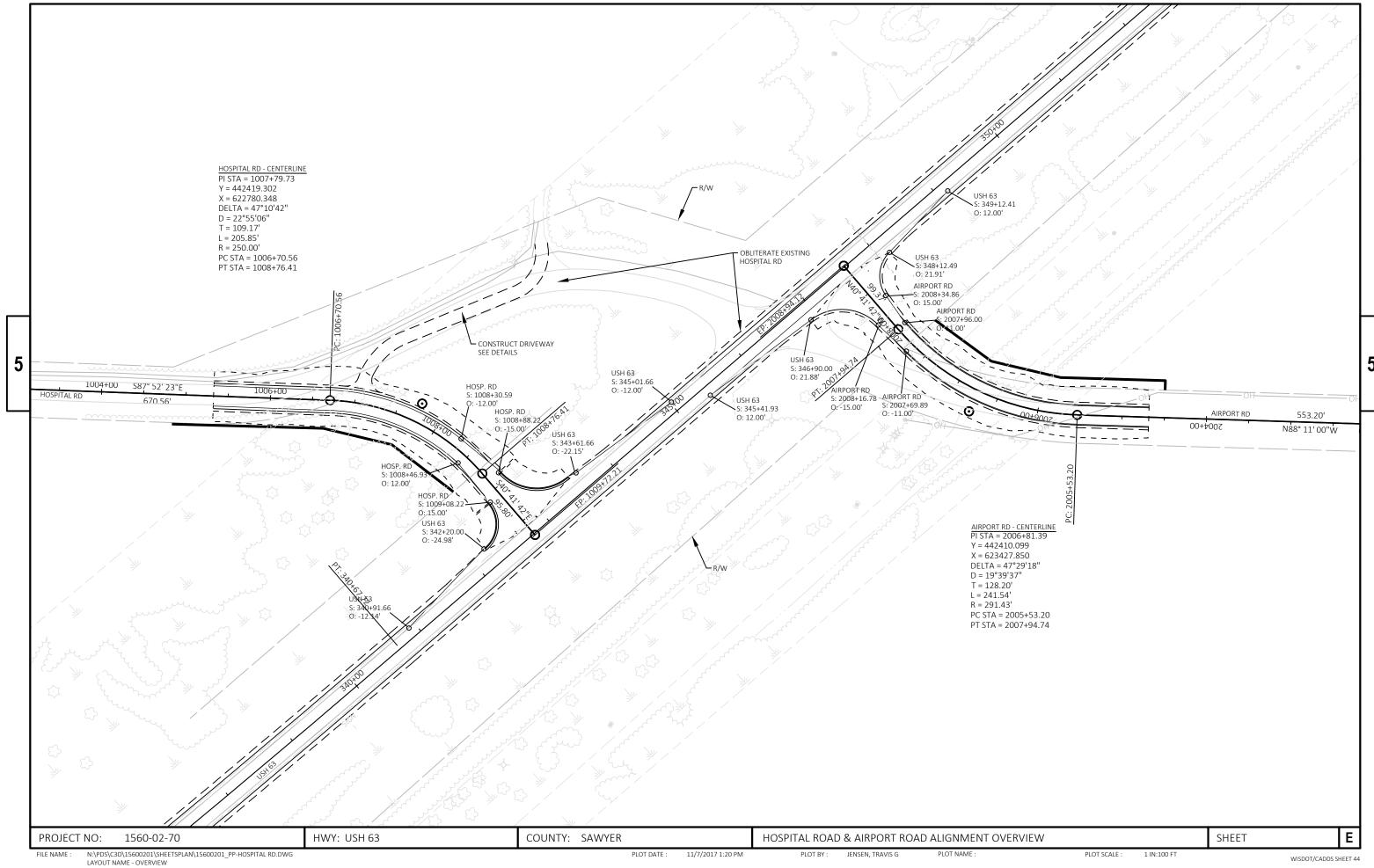


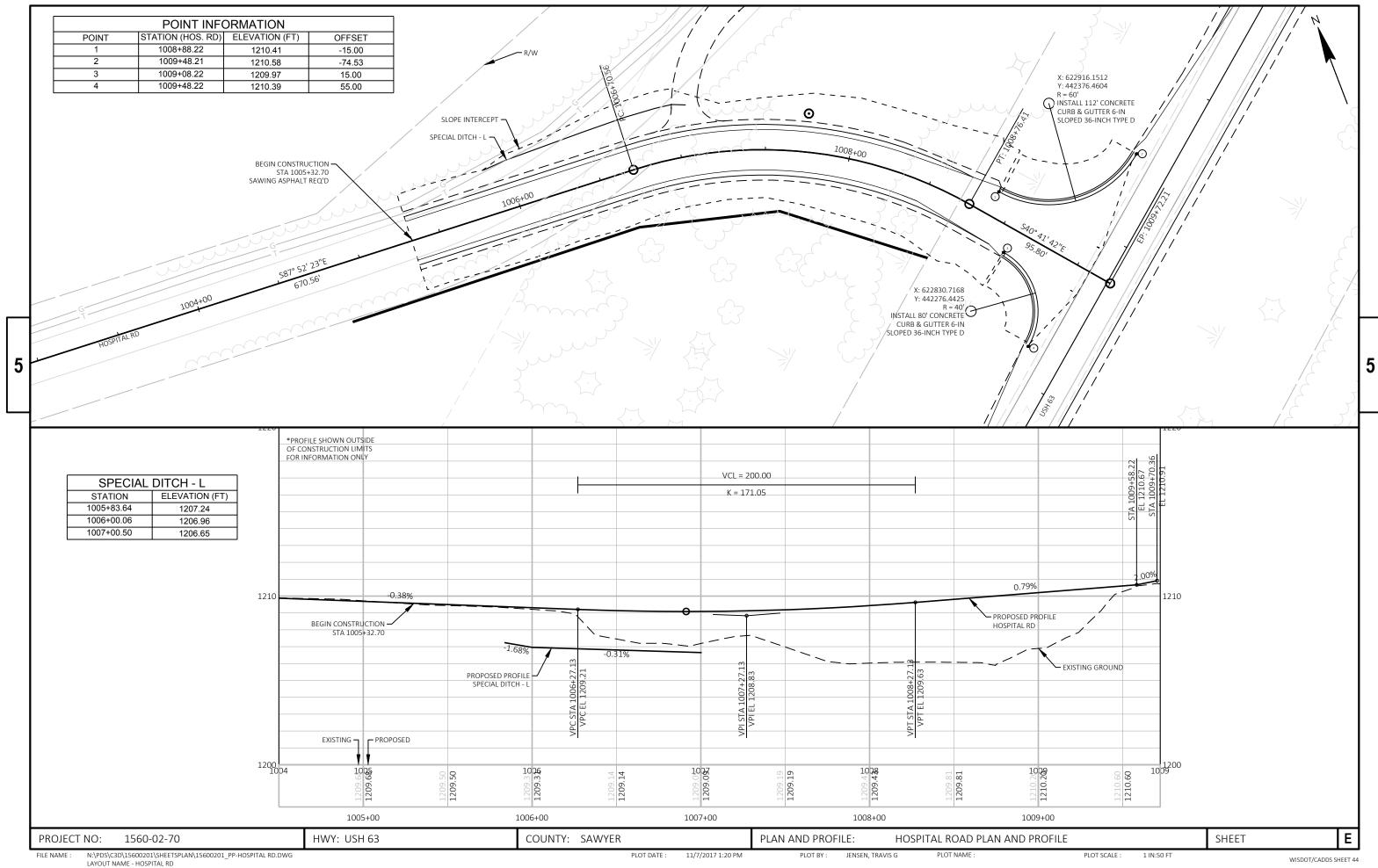


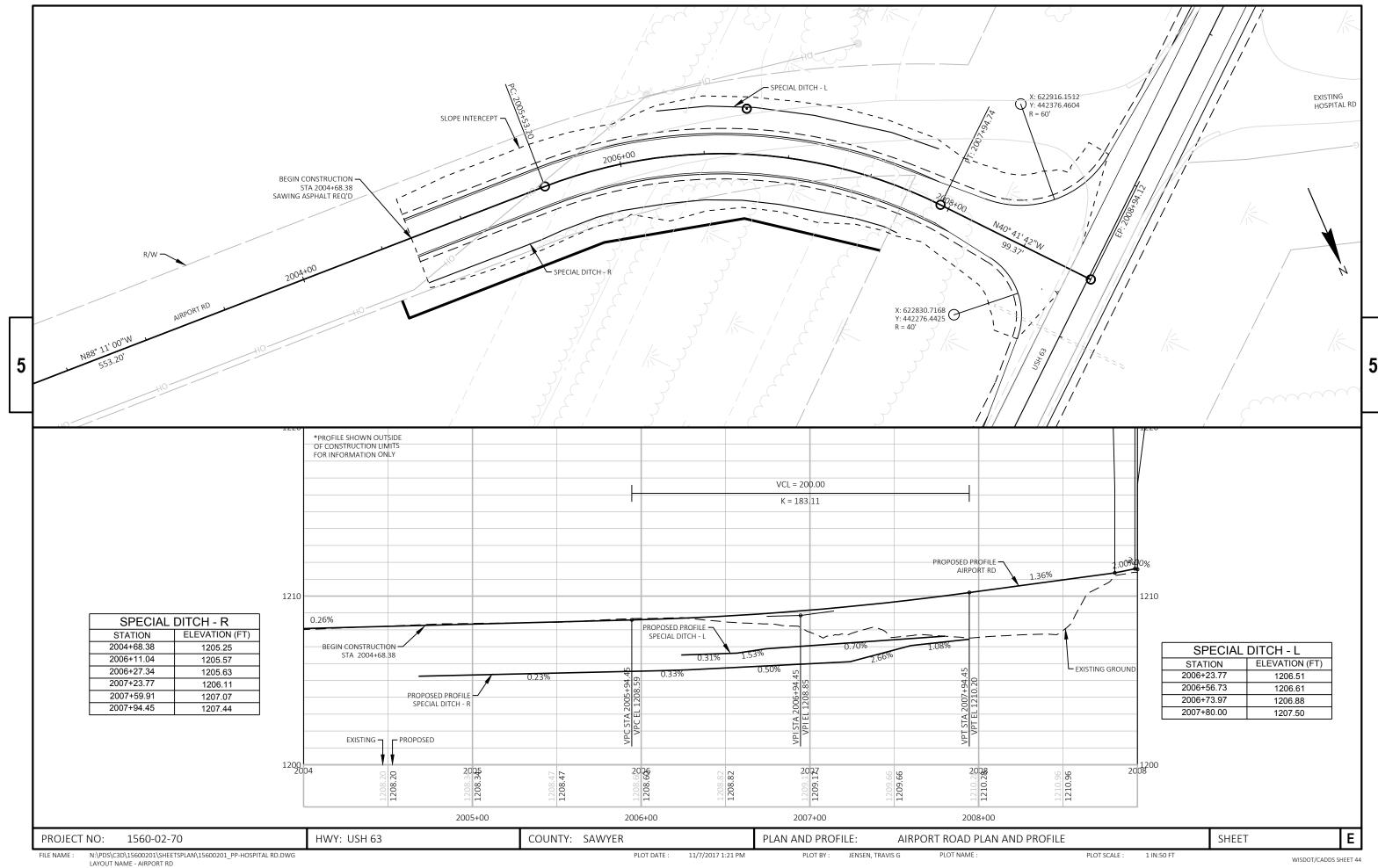


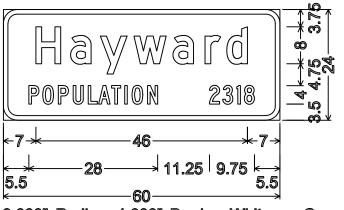




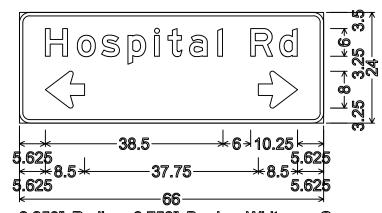




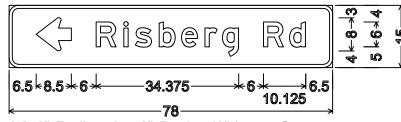




3.000" Radius, 1.000" Border, White on Green; "Hayward" D: "POPULATION" C 125% spacing; "2318" C:



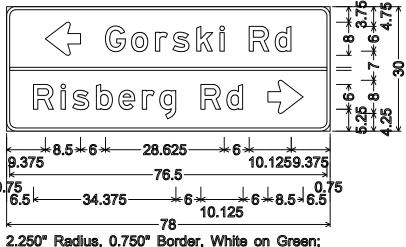
2.250" Radius, 0.750" Border, White on Green; "Hospital" E; "Rd" E; Standard Arrow Custom 8.500" X 8.000" 180°: Standard Arrow Custom 8.500" X 8.000" 0°;



2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°: "Risberg" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°; "Gorski" E; "Rd" E;



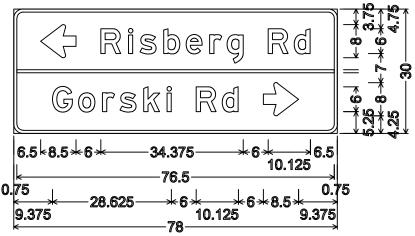
2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°; "Gorski" E; "Rd" E; "Risberg" E; "Rd" E; Standard Arrow Custom 8.500" X 8.000" 0°;

NOTES

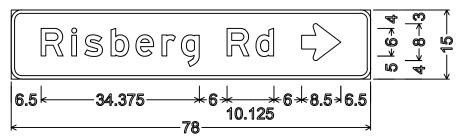
- 1. All SignsType II Type H Reflective
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E except as Shown



2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°: "Risberg" E; "Rd" E; "Gorski" E; "Rd" E; Standard Arrow Custom 8.500" X 8.000" 0°;



PLOT SCALE :

1 IN:10 FT

WISDOT/CADDS SHEET 42

2.250" Radius, 0.750" Border, White on Green; "Risberg" E: "Rd" E: Standard Arrow Custom 8.500" X 8.000" 0°;

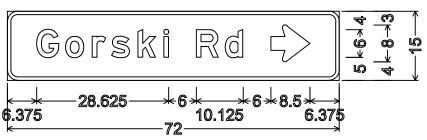
Ε PROJECT NO: HWY: USH 63 COUNTY: SAWYER SIGN PLATES SHEET 1560-02-70

N:\PDS\C3D\15600201\SHEETSPLAN\15600201 SIGNING PLATES.DWG 9/27/2017 10:24 AM JENSEN, TRAVIS O PLOT NAME

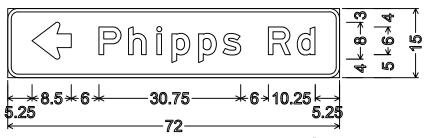


Background - GREEN Message - WHITE

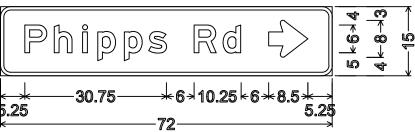
3. Message Series - E



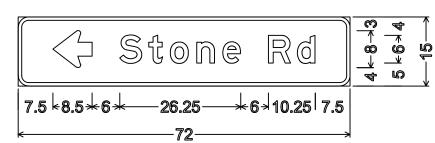
2.250" Radius, 0.750" Border, White on Green; "Gorski" E: "Rd" E: Standard Arrow Custom 8.500" X 8.000" 0°;



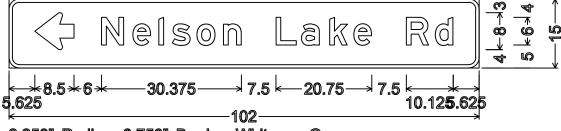
2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°; "Phipps" E; "Rd" E;



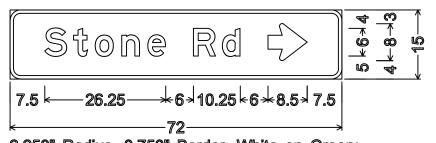
2.250" Radius, 0.750" Border, White on Green; "Phipps" E; "Rd" E; Standard Arrow Custom 8.500" X 8.000" 0°;



2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°; "Stone" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°; "Nelson" E; "Lake" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green; "Stone" E; "Rd" E; Standard Arrow Custom 8.500" X 8.000" 0°;

PROJECT NO:

1560-02-70

HWY: USH 63

COUNTY: SAWYER

SIGN PLATES

Ε

N:\PDS\C3D\15600201\SHEETSPLAN\15600201 SIGNING PLATES.DWG

JENSEN, TRAVIS G

PLOT NAME

PLOT SCALE:

LAYOUT NAME - Sign Plates-2

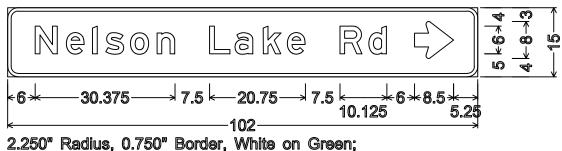
WISDOT/CADDS SHEET 42

SHEET

- 1. All SignsType II Type H Reflective
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - E



"Nelson" E; "Lake" E; "Rd" E; Standard Arrow Custom 8.500" X 8.000" 0°;



2.250" Radius, 0.750" Border, White on Green; Standard Arrow Custom 8.500" X 8.000" 180°: "Weingarten" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green; "Weingarten" E; "Rd" E; Standard Arrow Custom 8.500" X 8.000" 0°;

Ε PROJECT NO: HWY: USH 63 COUNTY: SAWYER SIGN PLATES SHEET 1560-02-70

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9/27/2017 10:24 AM

JENSEN, TRAVIS G

PLOT NAME

WISDOT/CADDS SHEET 42

PLOT SCALE:

