



**US Army Corps
of Engineers**
St Paul District

APPLICANT: Dairyland Power
Cooperative

Public Notice

ISSUED: May 03, 2021
EXPIRES: May 18, 2021

REFER TO: MVP-2018-01717-KDZ

SECTION:404 - Clean Water Act

1. APPLICATION FOR PERMIT TO discharge dredged and fill material into wetlands adjacent to the Mississippi River to improve approximately 4,500 linear feet of the Italian Hollow Drainage Ditch.

2. SPECIFIC INFORMATION

AGENT Dairyland Power Cooperative
3200 East Ave. South
La Crosse, Wisconsin 54602

PROJECT LOCATION: The project site is located in Section 32, Township 13 North., Range 07 West., Vernon County, Wisconsin. Latitude 43.555129, Longitude -91.229862.

DESCRIPTION OF PROJECT: Dairyland Power Cooperative (Dairyland) is applying for a Department of the Army permit for the Italian Hollow Drainage Project (Project) located adjacent to the Burlington Northern Santa Fe Railway Company (BNSF) bridge on State Highway 35, immediately south of the entrance road to Dairyland's Genoa Station #3 in the Town of Genoa. The purpose of the Project is to improve drainage conditions within an approximately 4,500 linear foot portion of the Italian Hollow Drainage Ditch (Ditch) that flows west under the State Highway 35 bridge and the BNSF bridge and runs south through a previously disturbed wetland into the Mississippi River. Over time, the Ditch has accumulated with sediment, impeding flow through the bridges and causing localized flooding. Heavy rainfall over the past several years has also led to significant erosion and subsequent sedimentation of an existing catchment basin and the Ditch. BNSF and the Wisconsin Department of Transportation (WisDOT) are concerned that future heavy rainfall events may lead to additional erosion issues, which could compromise the integrity of their bridges.

Dairyland proposes to modify and enlarge an approximately 4,500 linear foot portion of the Ditch to varying dimensions along the project length, with the majority designed as a 4-foot bottom width, 40 to 45-foot top width, and 6-foot depth with a slope of 0.00096-foot per foot. This design was selected because it most efficiently ties into the existing channel under the railway bridge and the State Highway 35 box culvert. The Project also includes the installation of a new sedimentation basin, dredging, and placement of rock riprap on WisDOT property east of State Highway 35. The sedimentation basin would allow for future maintenance on the existing State Highway 35 box culvert. Accumulated sediment would also be dredged between the Highway 35 box culvert and the downstream side of the railroad crossing of Italian Hollow Creek.

QUANTITY, TYPE, AND AREA OF FILL: The Project would include placing fill material (rock riprap) near the State Highway 35 bridge, BNSF railway bridge, and proposed sedimentation basin.

VEGETATION IN AFFECTED AREA: The Project site is comprised of floodplain forest, fresh (wet) meadow wetland, and the existing Ditch. Modification activities for the Project include cutting trees within the proposed project corridor and excavation of a new channel to a design grade that improves drainage. Tree cutting activities were conducted during February 2021. Trees were cut and removed during the winter to minimize disturbance to wetlands; no stumps were removed.

SOURCE OF FILL MATERIAL: Fill material would be obtained from on-site excavation during project construction and from existing local commercial sources.

SURROUNDING LAND USE: The majority of the existing Ditch flows through wetland and is surrounded by existing roadways, BNSF railway, undeveloped lands, and Dairyland Genoa Station #3 infrastructure.

DESCRIPTION OF DREDGING OR EXCAVATION: The Project would result in a permanent loss of 1.63 acres of floodplain forest wetland and a conversion of 0.69 acre of fresh wet meadow wetland. To allow for construction, trees within floodplain forested wetlands were cut during winter 2021 using non-mechanized methods to avoid ground disturbance and additional permanent wetland plant community conversion. Stumps would be grubbed where necessary to allow for construction of the new Ditch channel. All other stumps would remain in-place, allowing the roots to continue stabilizing the soil.

THE FOLLOWING POTENTIALLY TOXIC MATERIALS COULD BE USED AT THE PROJECT SITE: No toxic materials were identified by the applicant, however, hydraulic fluids and fuels from heavy equipment would be used during construction.

THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT: The applicant would utilize a temporary and permanent erosion control devices to contain exposed soils and minimize sediments leaving the project site. After excavation activities, the lower two feet of the Ditch would be covered with a long-term erosion mat and vegetated with native plugs, seeds, and/or native sod. Portions will also be covered with riprap since there will be active flow during construction. All other disturbed areas will be covered with erosion mats (Urban Class 1, Type B). All erosion mats are designed to minimize wildlife entanglement.

MITIGATION: The applicant proposes to compensate the loss of wetland functions from this project by purchasing credits from an approved wetland mitigation bank in the Mississippi River Basin or the Wisconsin Wetland Conservation Trust In-Lieu Fee Program.

3. FEDERALLY-LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT.

None were identified by the applicant or are known to exist in the permit area. However, Vernon County is within the known or historic range of the following Federally-listed species:

Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. During summer, roosts and forages in upland forests.
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Higgins eye pearly mussel <i>Lampsilis higginsii</i>	Endangered	Mississippi River
Northern monkshood <i>Aconitum noveboracense</i>	Threatened	North facing slopes

This application is being coordinated with the U.S. Fish and Wildlife Service. Any comments it may have concerning Federally-listed threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

4. JURISDICTION

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

5. STATE SECTION 401 WATER QUALITY CERTIFICATION

A permit will not be granted until the Wisconsin Department of Natural Resources has issued or waived Section 401 WQC certification and the U.S. Environmental Protection Agency (USEPA) neighboring jurisdiction process is completed. Corps Section 404 Clean Water Act decisions may not be finalized until after the USEPA completes this process.

6. HISTORICAL/ARCHAEOLOGICAL

This public notice is being sent to the National Park Service and the State Archaeologist for their comments. The Corps will review information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the Corps' determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

7. PUBLIC HEARING REQUESTS

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

8. PUBLIC INTEREST REVIEW

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values,

flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

REPLIES/COMMENTS

Interested parties are invited to submit to this office written facts, arguments, or objections by the expiration date indicated above. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

Replies may be sent to Kyle Zibung at kyle.d.zibung@usace.army.mil.

IF YOU HAVE QUESTIONS ABOUT THE PROJECT, contact Kyle Zibung at the Stevens Point office at (651) 290-5877 or kyle.d.zibung@usace.army.mil.

To receive Public Notice notifications, go to: <https://www.mvp.usace.army.mil/Contact/RSS/> and subscribe to the RSS Feed for which you would like to receive Public Notices.

Enclosures:

Project Drawings: MVP-2018-01717-KDZ Page 1 of 31 through Page 31 of 31.

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ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN



SHEET INDEX

SHEET NUMBER	DESCRIPTION
G000	COVER & INDEX OF SHEETS
G001	GENERAL NOTES, ABBREVIATIONS, & SYMBOLS
C001	EROSION CONTROL PLAN 10+00 TO 29+00
C002	EROSION CONTROL PLAN 29+00 TO 45+00
C002	EROSION CONTROL STH 35 EAST
C101	PLAN & PROFILE 10+00 TO 16+00
C102	PLAN & PROFILE 16+00 TO 22+00
C103	PLAN & PROFILE 22+00 TO 28+00
C104	PLAN & PROFILE 28+00 TO 34+00
C105	PLAN & PROFILE 34+00 TO 40+00
C106	PLAN & PROFILE 40+00 TO 46+00
C120	GRADING PLAN STH 35 EAST
C301	CROSS SECTIONS - 1
C302	CROSS SECTIONS - 2
C303	CROSS SECTIONS - 3
C304	CROSS SECTIONS - 4
C305	CROSS SECTIONS - 5
C306	CROSS SECTIONS - 6
C307	CROSS SECTIONS - 7
C308	CROSS SECTIONS - 8
C309	CROSS SECTIONS - 9
C310	CROSS SECTIONS - 10
C311	CROSS SECTIONS - 11
C500	TYPICAL CROSS SECTIONS
C501	EROSION CONTROL DETAILS
C502	EROSION CONTROL DETAILS 2
C503	EROSION CONTROL NOTES



DAVY ENGINEERING CO.

LA CROSSE, WISCONSIN

PROJECT NO. 8223-029.024
MARCH 2021

TOPOGRAPHIC FEATURES		ABBREVIATIONS	
	EXISTING UNDERGROUND ELECTRIC CABLE		CENTER LINE
	EXISTING UNDERGROUND TELEPHONE CABLE		PROPERTY LINE
	EXISTING WATERMAIN LINE		DIAMETER
	EXISTING UNDERGROUND GAS LINE		ANGLE
	TREE AND BRUSH DRIP LINE		AT
	RAILROAD TRACKS	BM	BENCH MARK
	NATURAL WATER FEATURE	FV	FIELD VERIFY
	EXISTING STORM SEWER LINE	RCP	REINFORCED CONCRETE PIPE
	EXISTING SANITARY SEWER	CMP	CORRUGATED METAL PIPE
	APPROXIMATE RIGHT-OF-WAY LINE	CCP	CONCRETE CYLINDER PIPE
	RAILROAD RIGHT OF WAY	DIP	DUCTILE IRON PIPE
	EXISTING PROFILE GRADE	CTRS	CENTERS
	FENCE	TYP	TYPICAL
	PAVED ROADWAY	MIN	MINIMUM
	UNPAVED ROADWAY	ELEV	ELEVATION
	BUILDING W/HOUSE NUMBER	INV	INVERT
	HORIZONTAL CONTROL POINT	DIA	DIAMETER
	EXISTING POWER POLE	CSW	CONCRETE SIDEWALK
	VALVE (V)	SS	STAINLESS STEEL
	FIRE HYDRANT	LF	LINEAL FEET
	WATER SHUT OFF VALVE	ROW	RIGHT-OF-WAY
	EXISTING CURB INLET		
	EXISTING STORM MANHOLE (MH)		
	EXISTING SANITARY MANHOLE (MH)		
	SOIL BORING LOCATION & NUMBER		
	SIGN		
	MAILBOX		
	BRUSH		
	TREES		
	PROPOSED SANITARY SEWER LINE		
	PROPOSED STORM SEWER LINE		
	PROPOSED WATERMAIN LINE		
	PROPOSED STORM MANHOLE (MH)		
	PROPOSED SANITARY MANHOLE (MH)		
	PROPOSED VALVE (V)		
	PROPOSED FIRE HYDRANT		
	PROPOSED WATER SHUT OFF VALVE		
	PROPOSED CURB INLET		
	PROPOSED PAVED ROADWAY		
	PROPOSED CONTOUR LINE		

UNDERGROUND UTILITIES

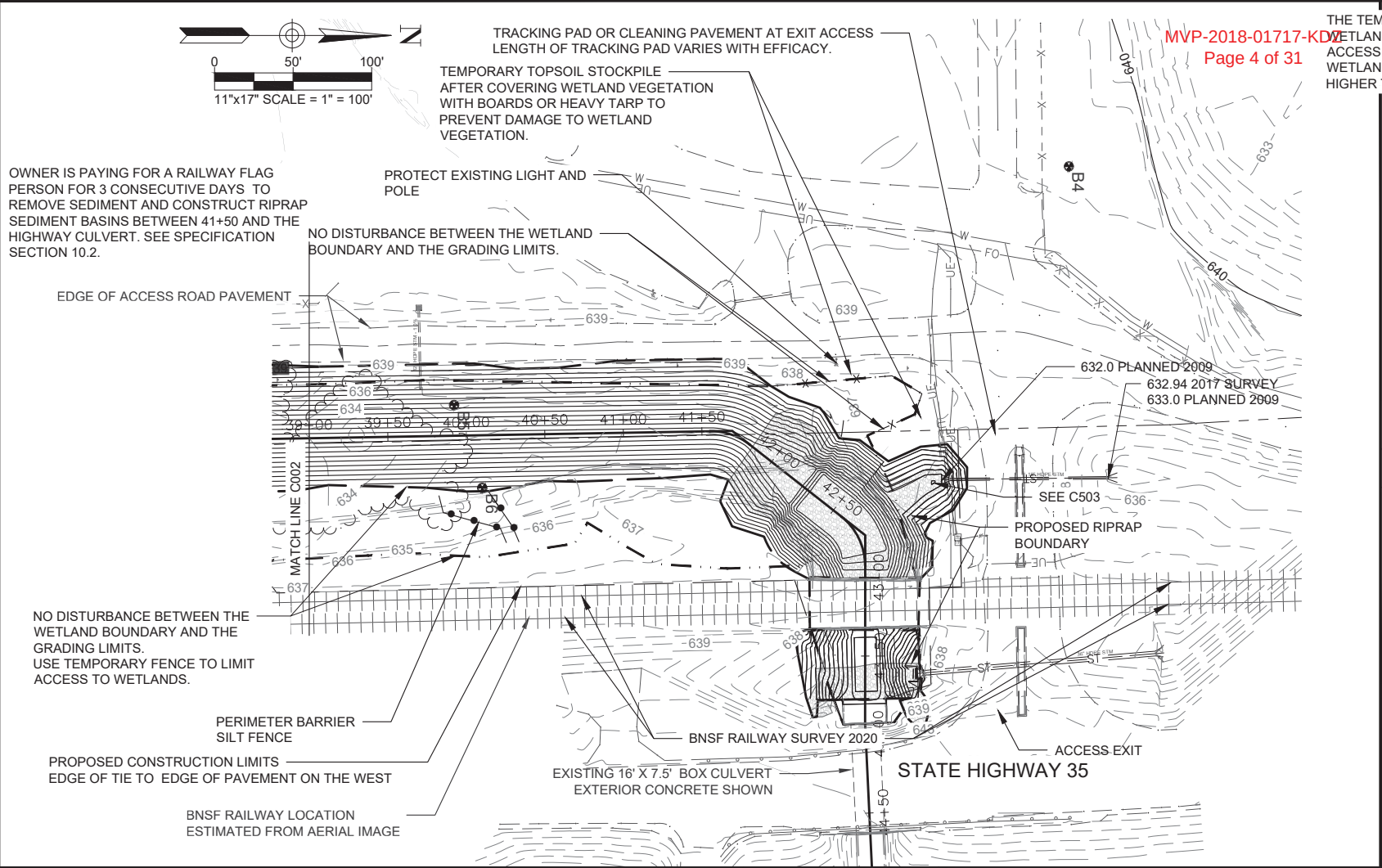
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. WHILE IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, DAVY ENGINEERING COMPANY DOES NOT GUARANTEE THEIR ACCURACY NOR THEIR COMPLETENESS. THE CONTRACTOR SHALL VERIFY LOCATIONS WITH UTILITY COMPANIES BEFORE MAKING ANY EXCAVATIONS.

GENERAL PROJECT NOTES:

1. EXACT SEWER SERVICE LOCATIONS SHALL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.
2. DRIVEWAY ACCESS SHALL BE RESTORED IMMEDIATELY AFTER THE TRENCH IS BACKFILLED.
3. THE CONTRACTOR SHALL NOT CUT OR TRIM ANY TREES UNLESS PERMISSION FROM THE OWNER IS RECEIVED.
4. ALL SEWER PIPELINES SHALL BE INSULATED IF CONSTRUCTED WITHIN 5½ FEET OF THE GROUND SURFACE OR WITHIN 2 FEET OF A STORM SEWER. INSULATION SHALL BE AS SPECIFIED IN SECTION 8.8.0.

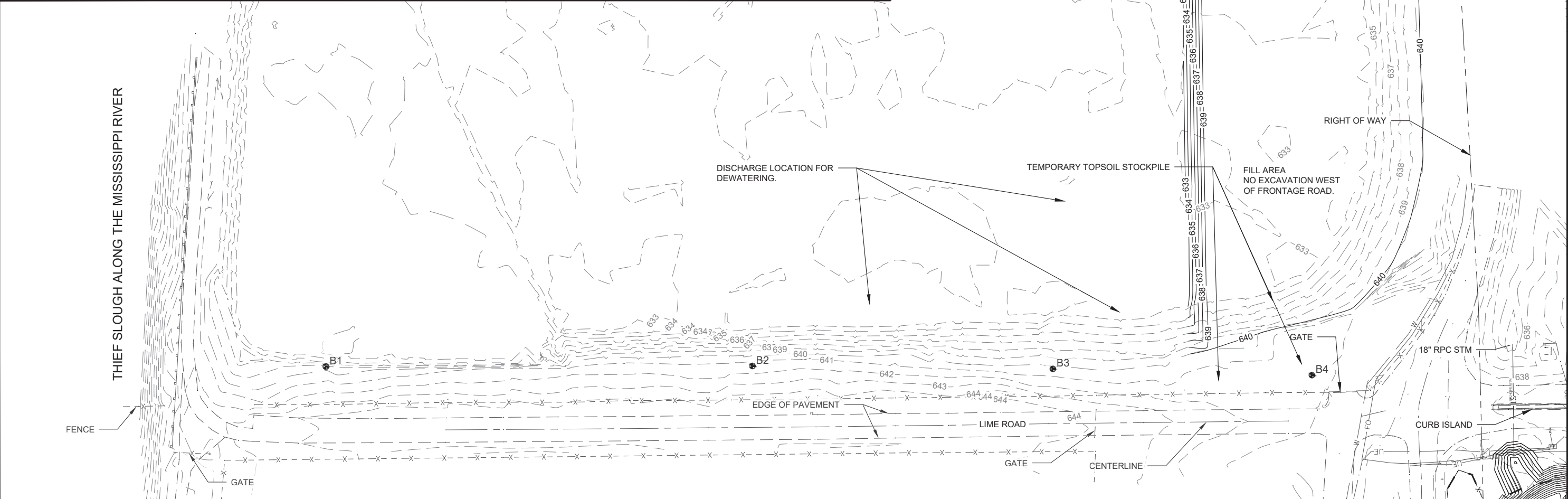
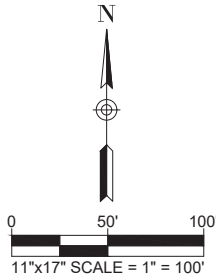


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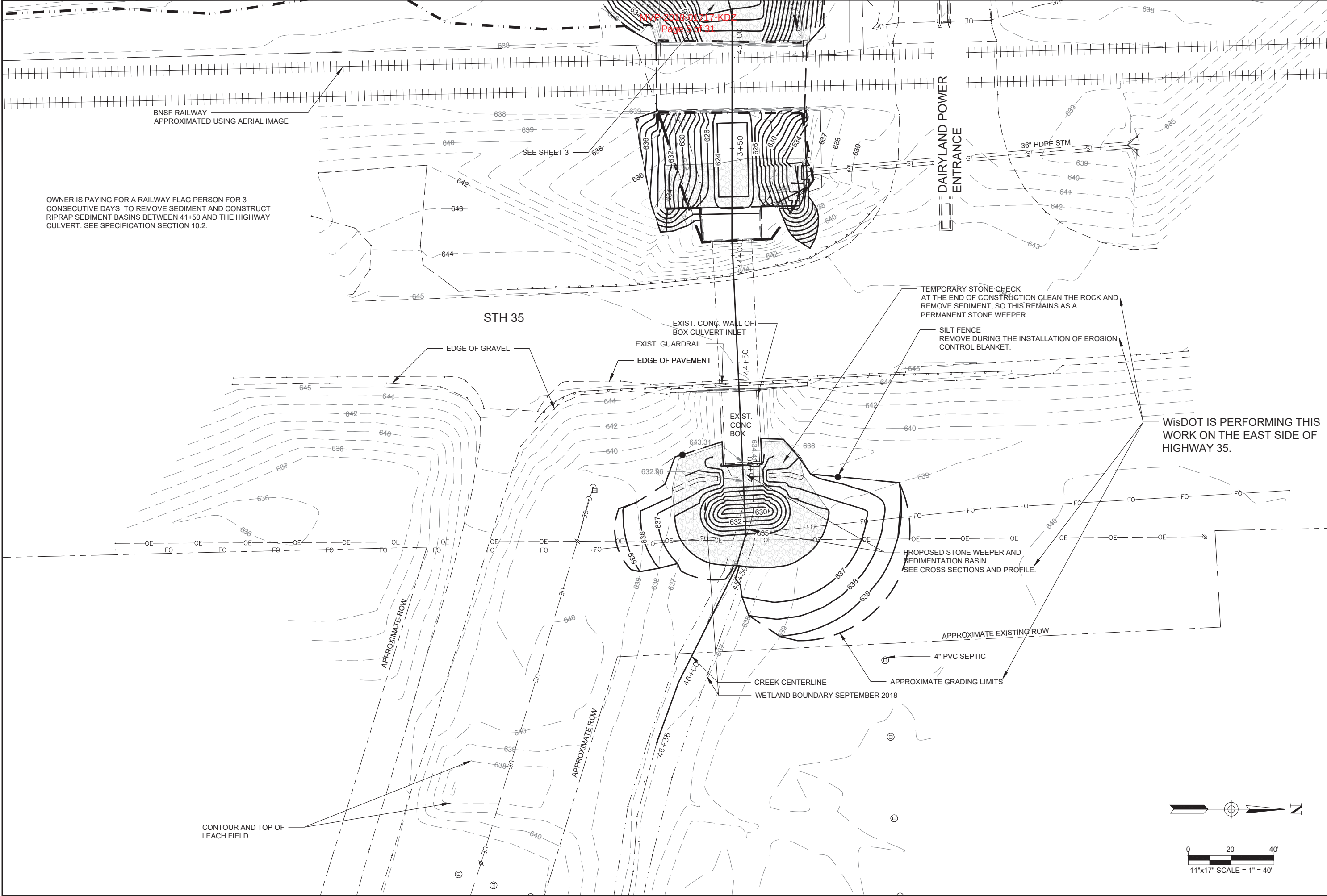
MVP-2018-01717-KDW
Page 4 of 31

THE TEMPORARY FENCE LOCATION SHALL BE PLACED BETWEEN THE GRADING LIMITS AND THE WETLAND TO AVOID WETLAND DISTURBANCE. ACCESS FROM THE ACCESS ROAD TO THE EXCAVATION SHALL BE LIMITED AND AVOID WETLAND DISTURBANCE. THERE ARE LOCATIONS WHERE THE EXCAVATION EXTENDS UPWARD HIGHER THAN THE WETLAND WHERE ACCESS CAN BE MADE.



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DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	
EROSION CONTROL PLAN 39+00 TO 44+00 ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN	
PROJECT NUMBER 8223-029.024	
SHEET NO. C002	



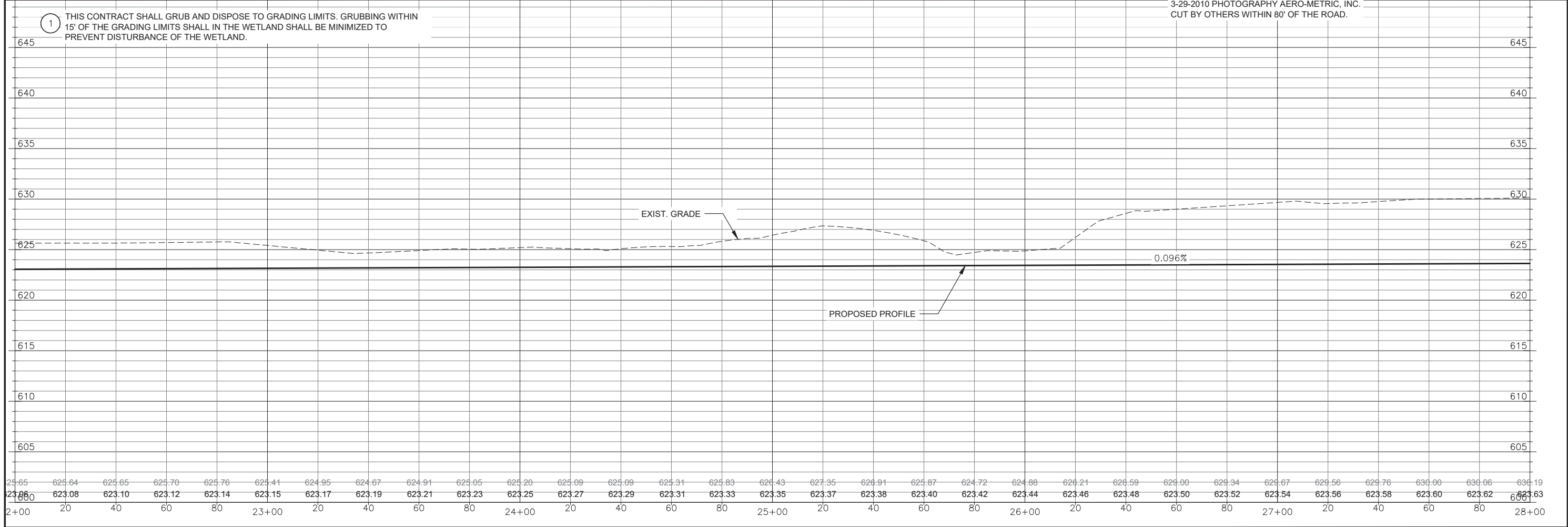
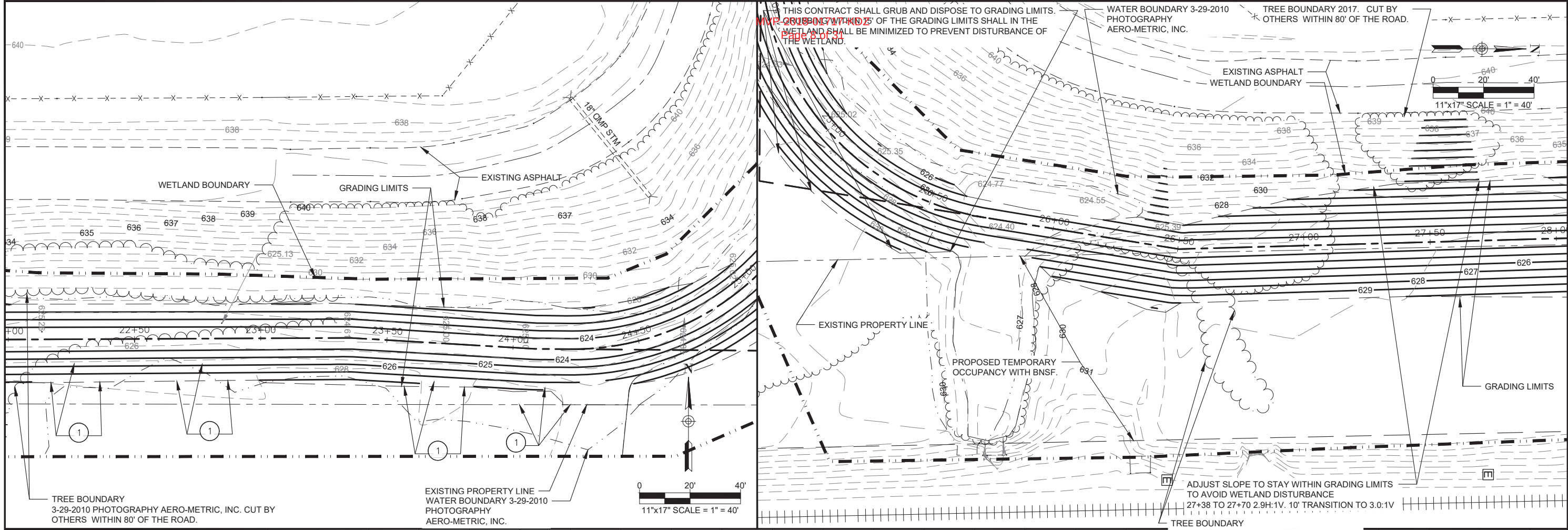
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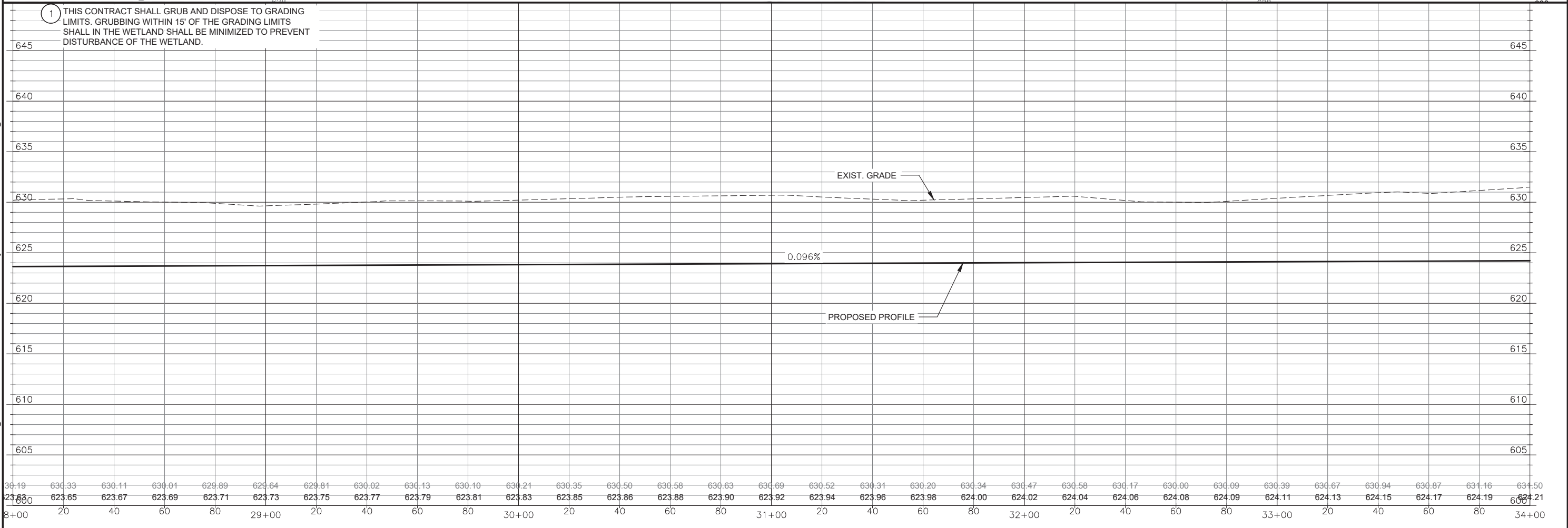
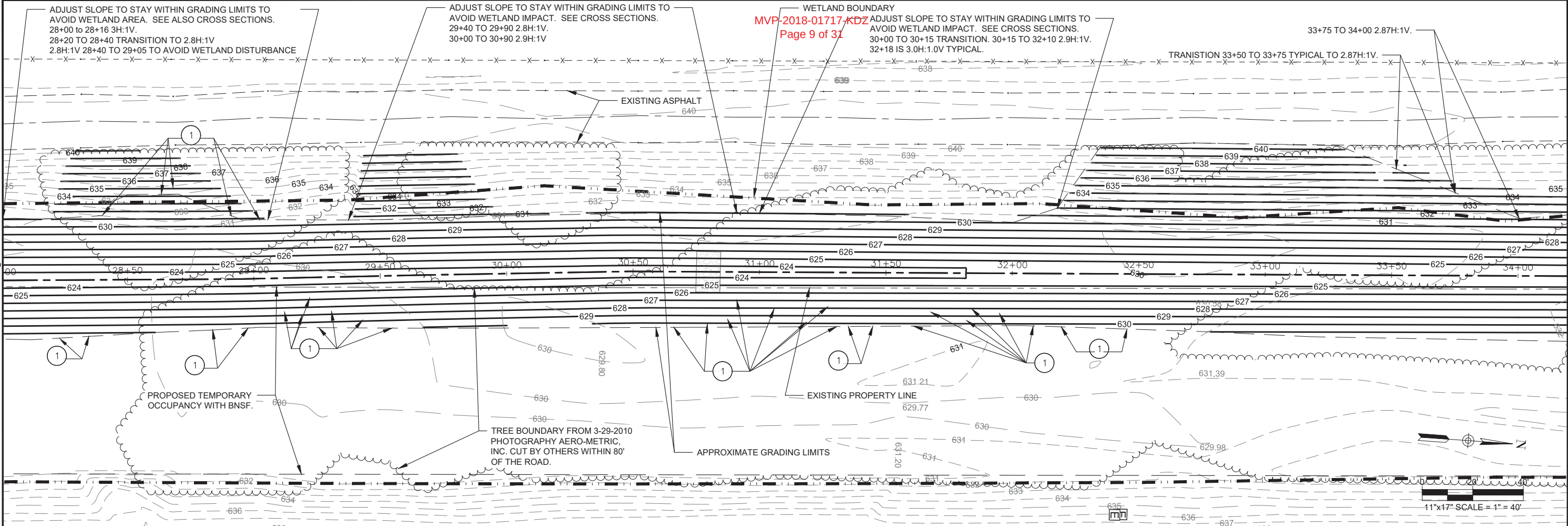
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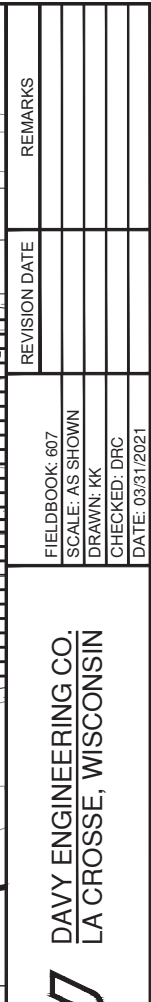
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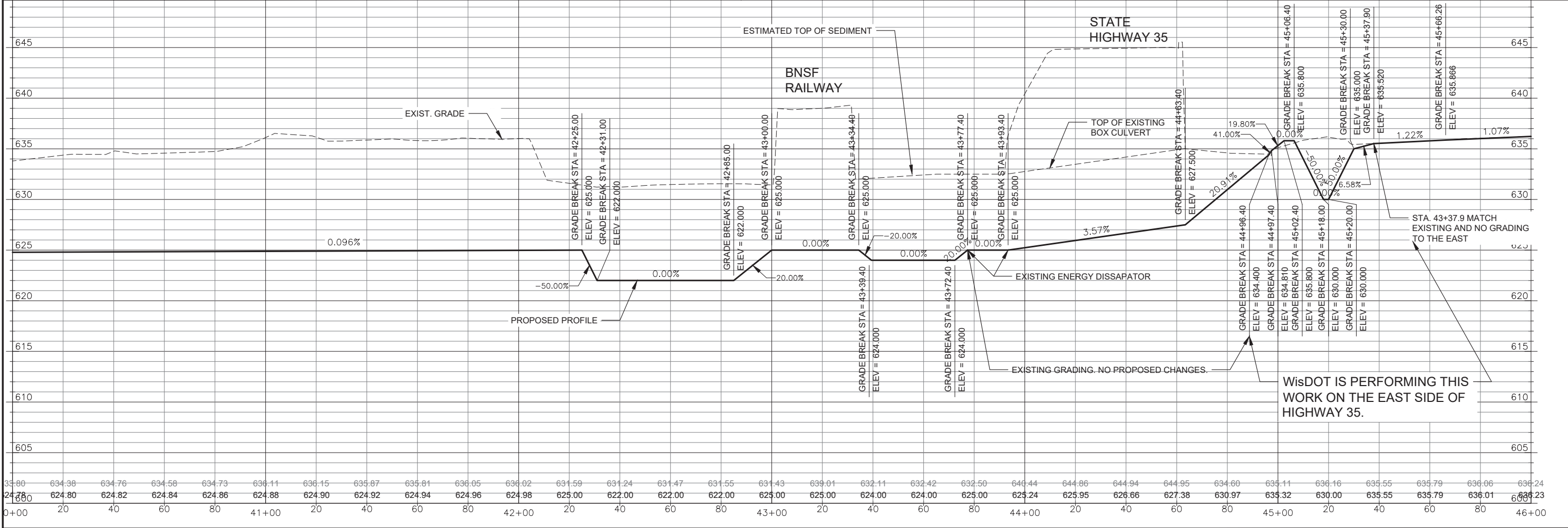
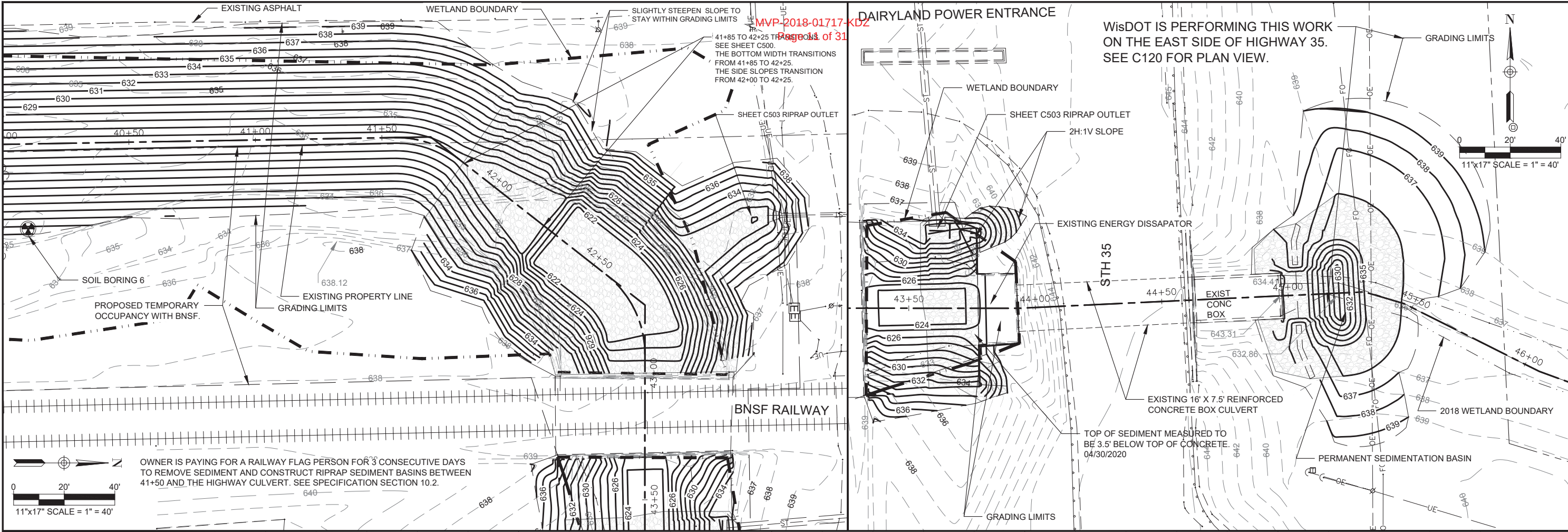
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DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN





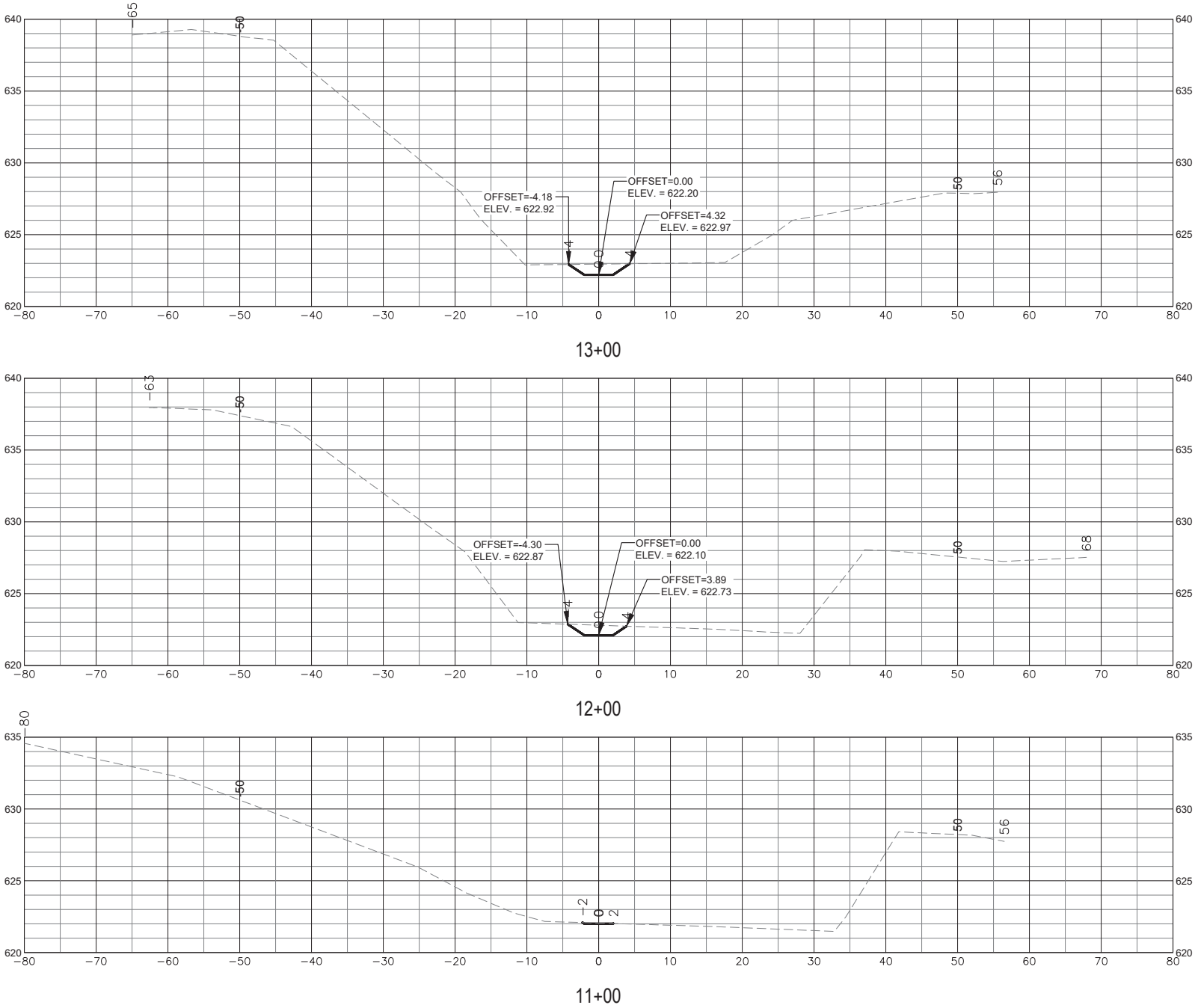
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SHEET NO.					
C106					

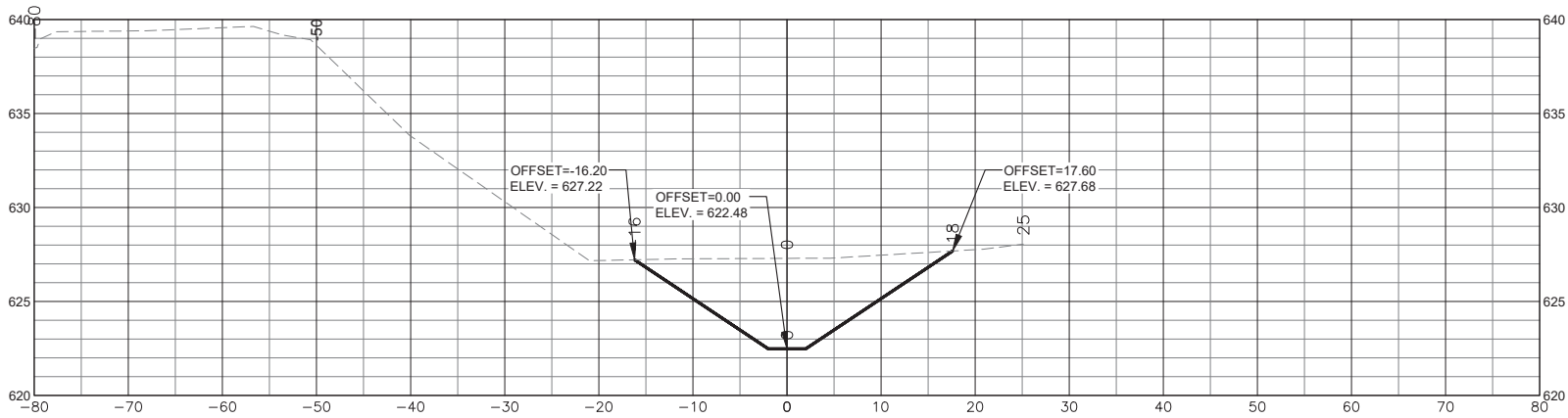
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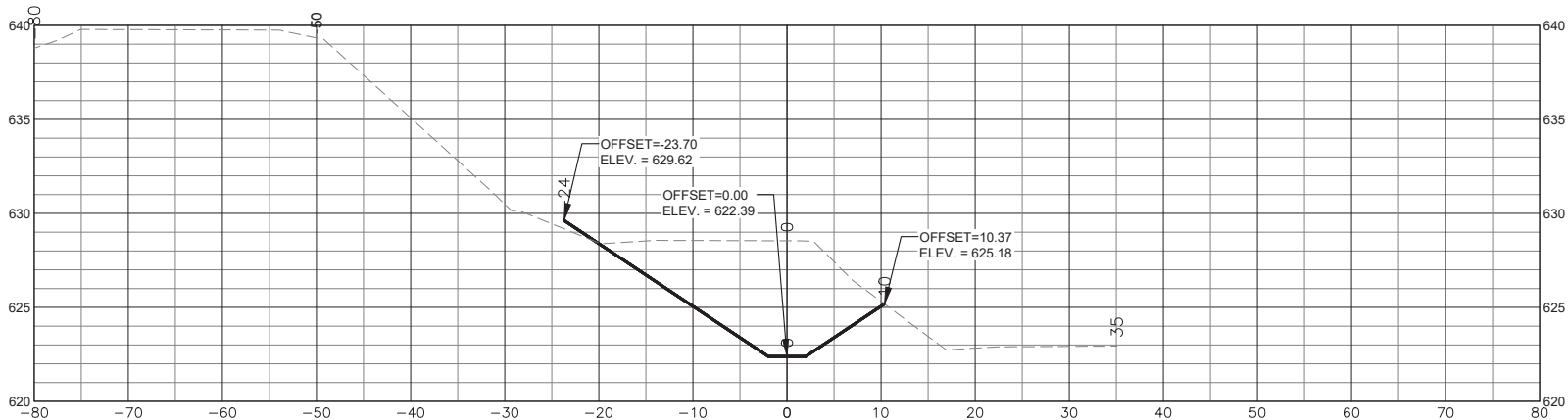


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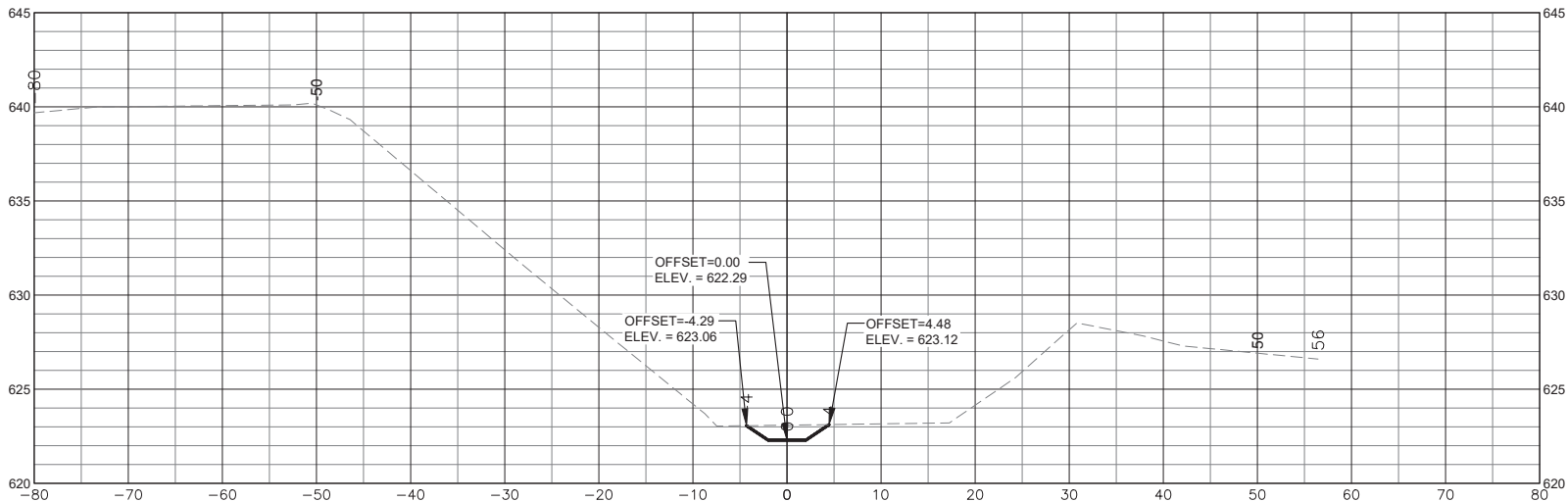
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CROSS SECTIONS - 2

ITALIAN HOLLOW DRAINAGE

DAIRYLAND POWER COOPERATIVE

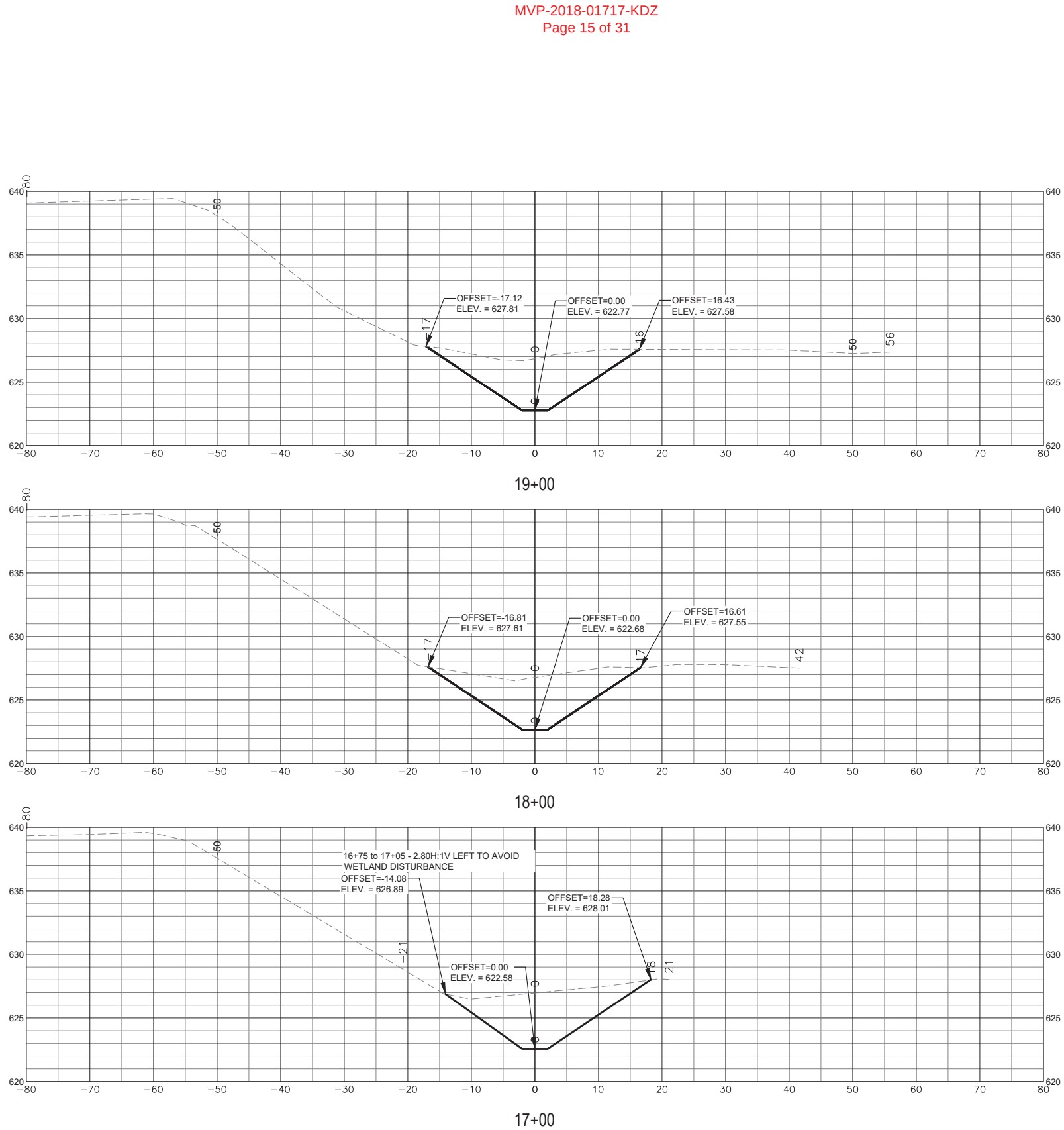
GENOA, WISCONSIN

DAVY

ENGINEERING

DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

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CROSS SECTIONS - 3
ITALIAN HOLLOW DRAINAGE
DAIRYLAND POWER COOPERATIVE
GENOA, WISCONSIN

PROJECT NUMBER
8223-029.024

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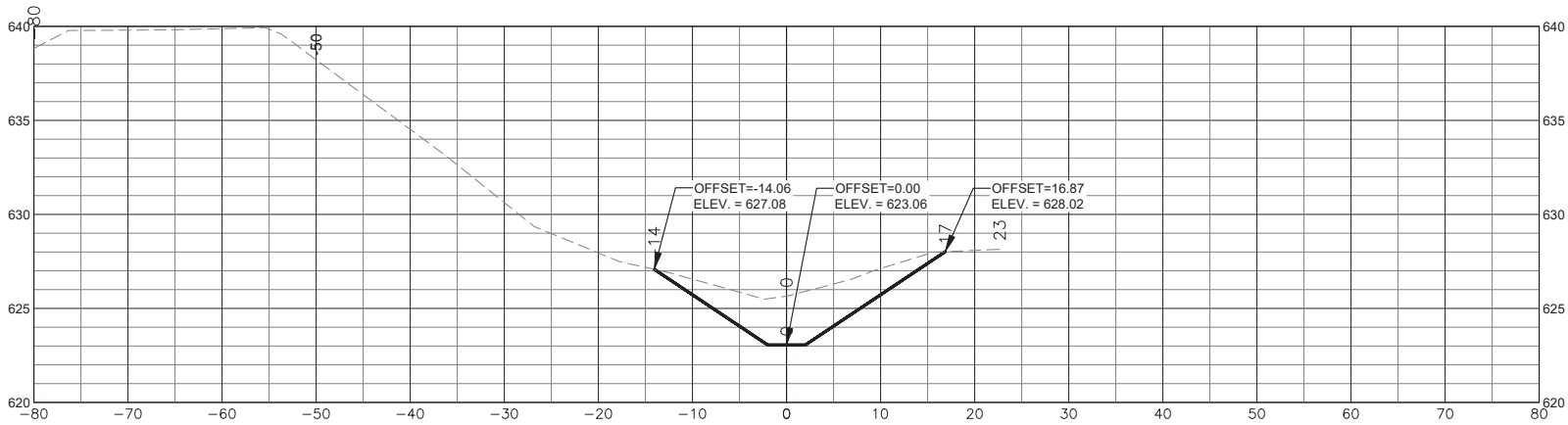
DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

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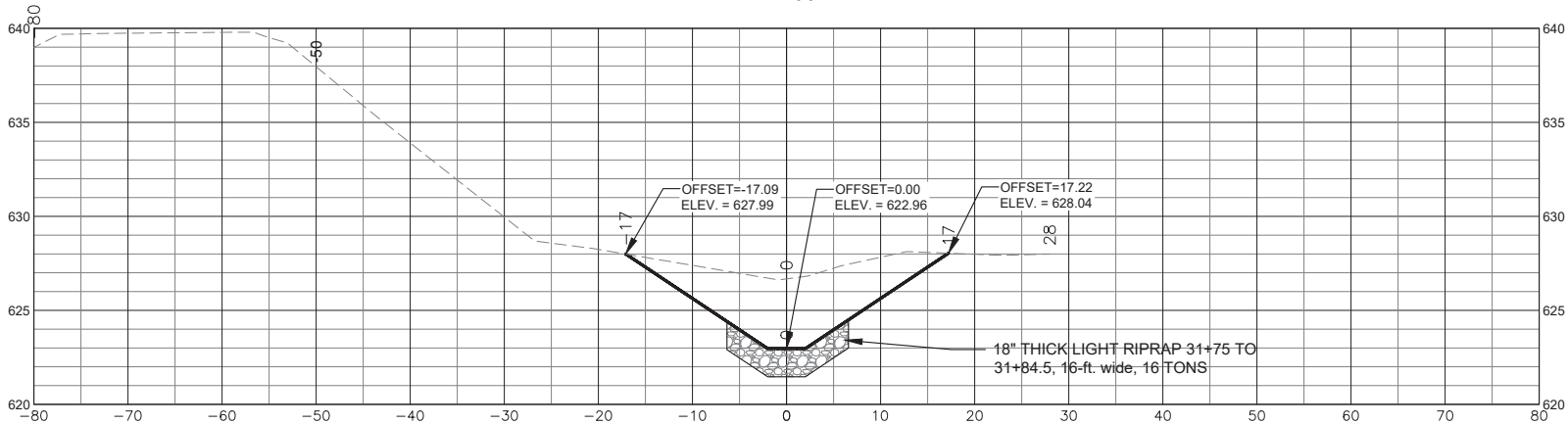
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REMARKS

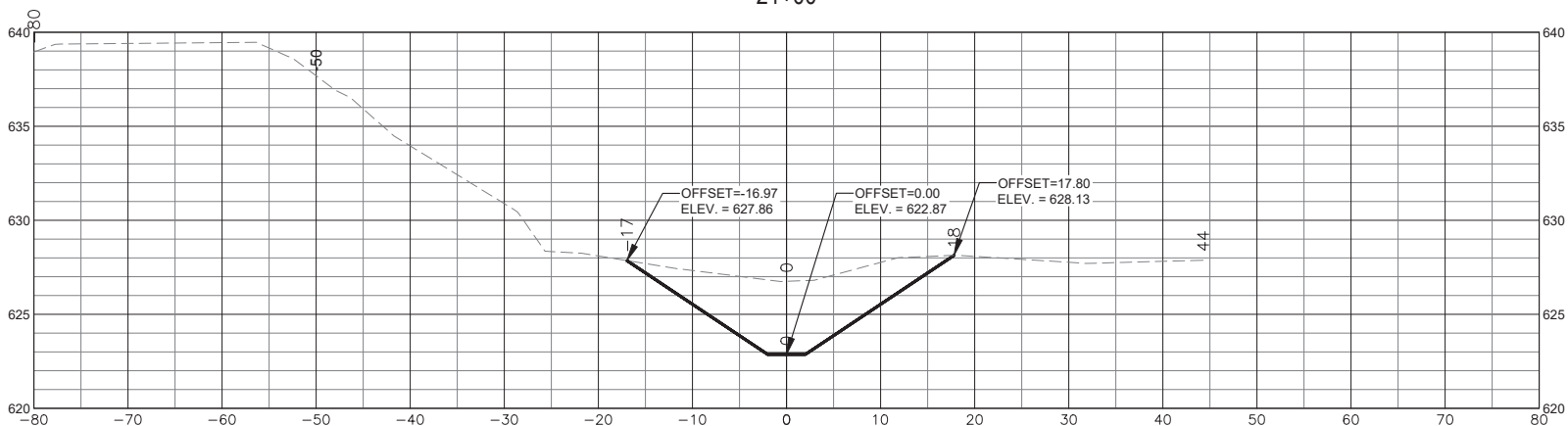
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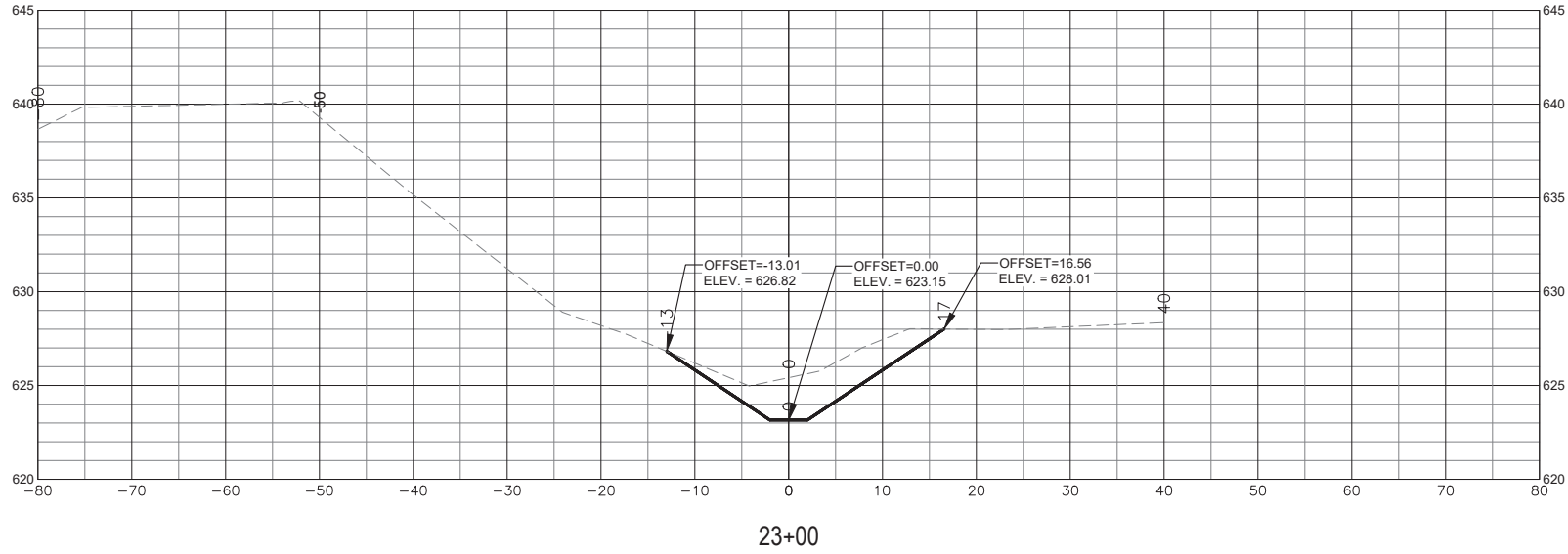


21+00



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PROJECT NUMBER		CROSS SECTIONS - 4 ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN	DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	FIELDBOOK: 607	REVISION DATE	REMARKS
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PROJECT NUMBER 8223-029,024	CROSS SECTIONS - 5 ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN	 DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	FIELDBOOK: 607	REVISION DATE	REMARKS
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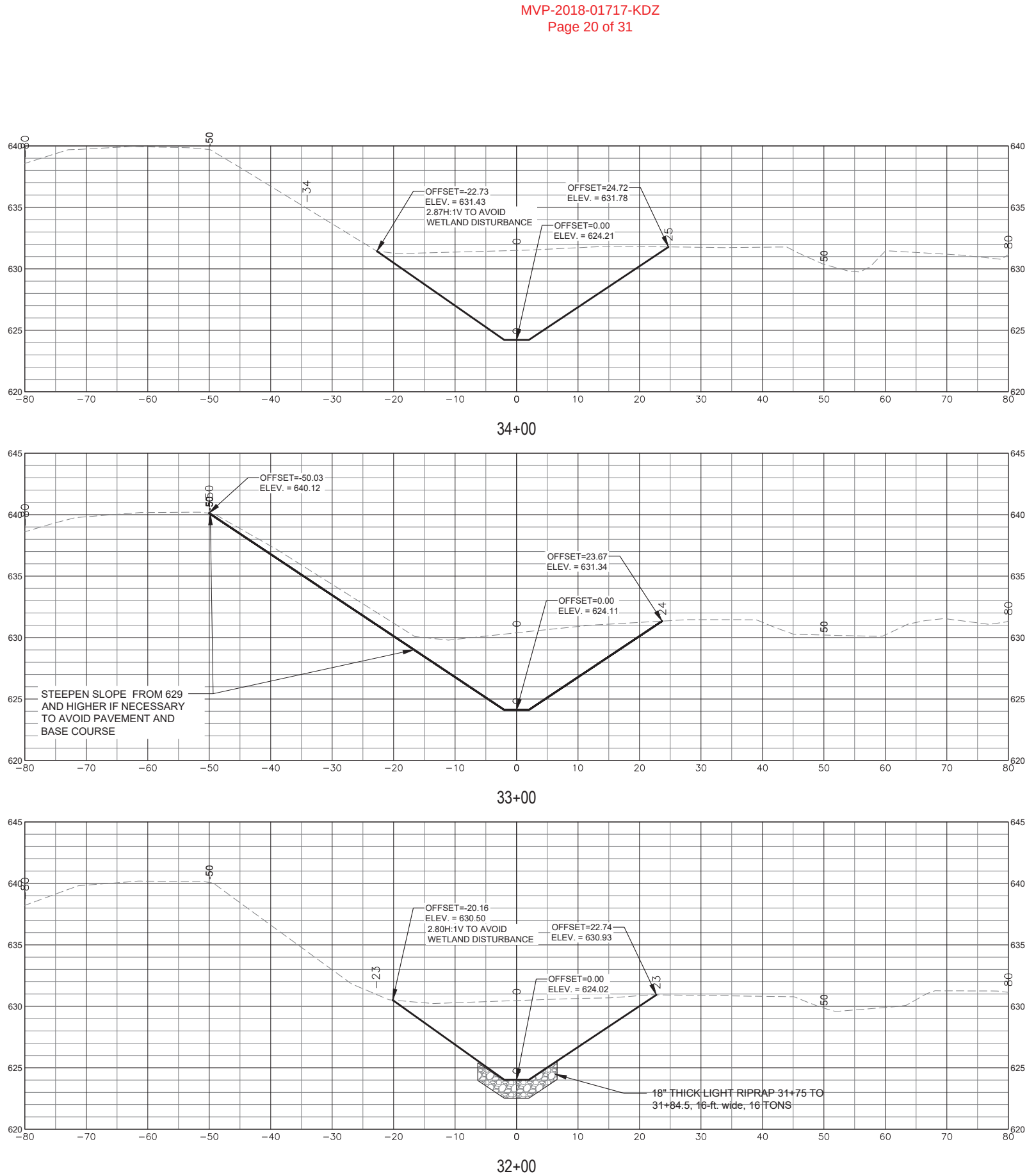
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PROJECT NUMBER	CROSS SECTIONS - 7	 DAVY ENGINEERING CO. ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN	FIELDBOOK: 607	REVISION DATE	REMARKS
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			DATE: 03/31/2021		

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REVISION DATE	REMARKS
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DRAWN: KK	
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DATE: 01/15/2021	

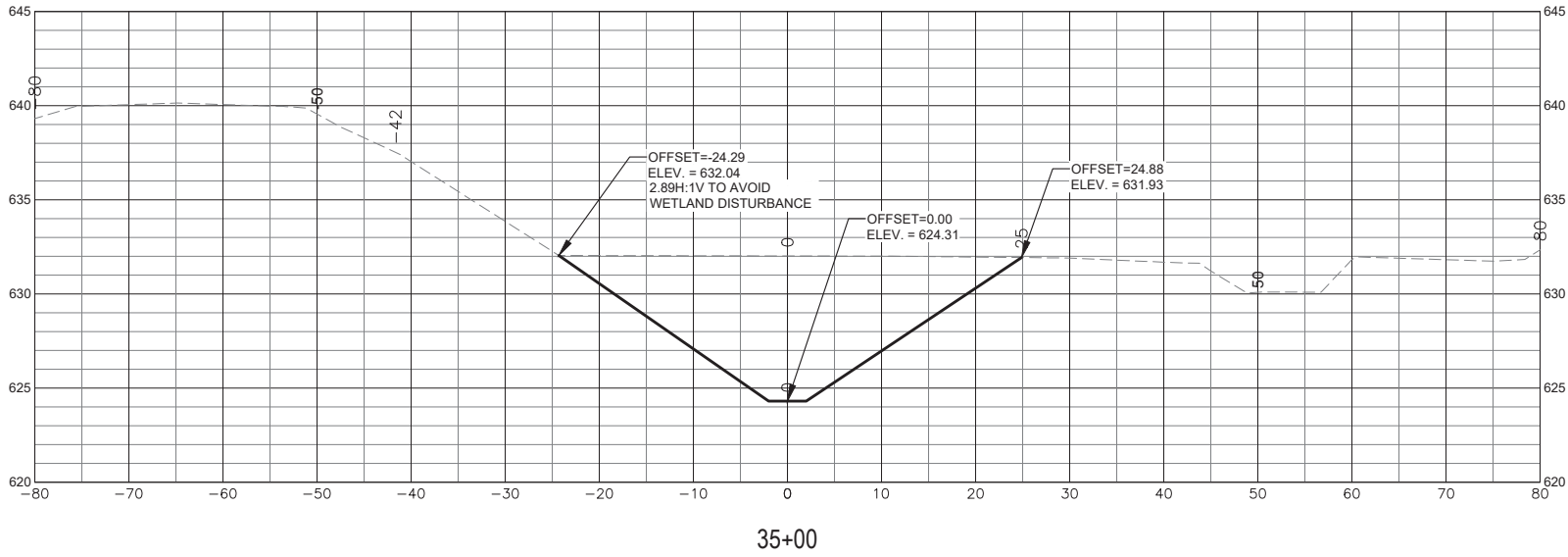
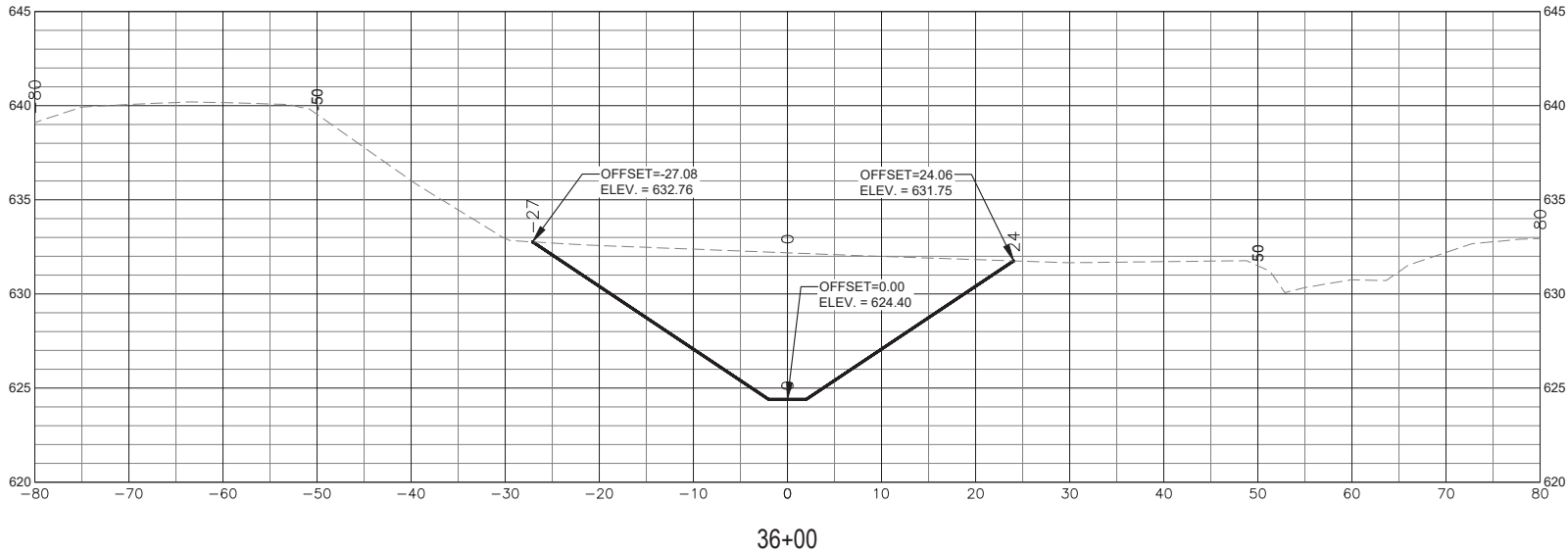
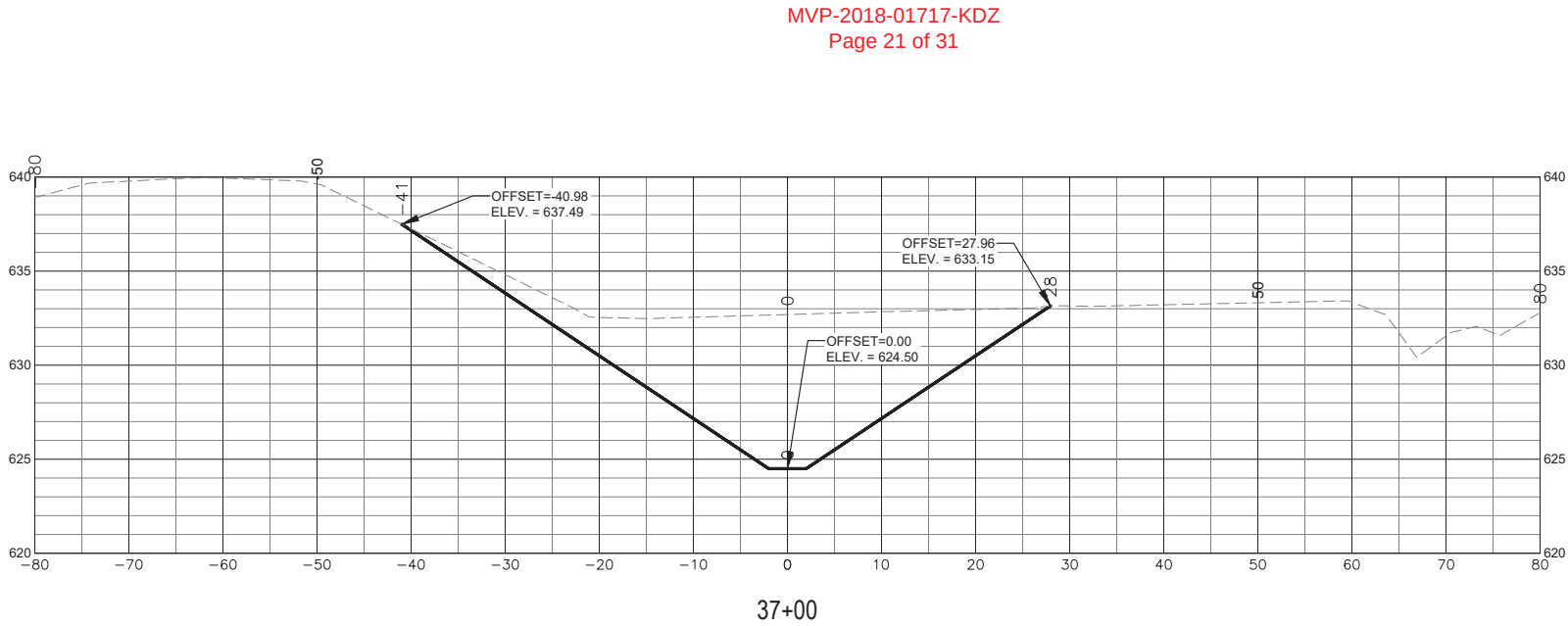
CROSS SECTIONS - 8
ITALIAN HOLLOW DRAINAGE
DAIRYLAND POWER COOPERATIVE
GENOA, WISCONSIN



DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

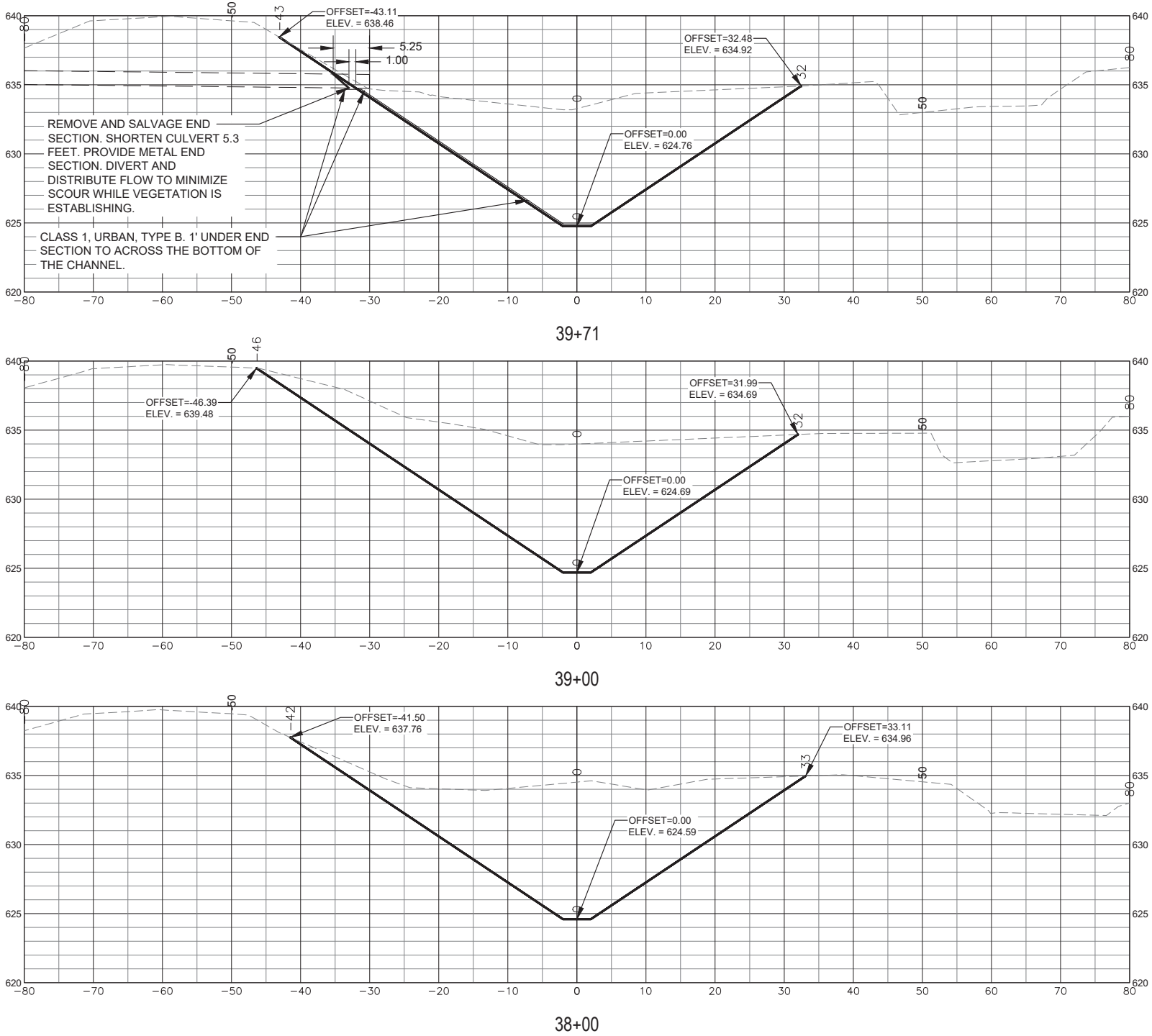
PROJECT NUMBER	8223-029.024
SHEET NO.	C308

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REVISION DATE		FIELDBOOK: 607 SCALE: AS SHOWN DRAWN: KK CHECKED: DRC DATE: 03/31/2021	DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	CROSS SECTIONS - 9 ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN	PROJECT NUMBER 8223-029.024	SHEET NO. C309

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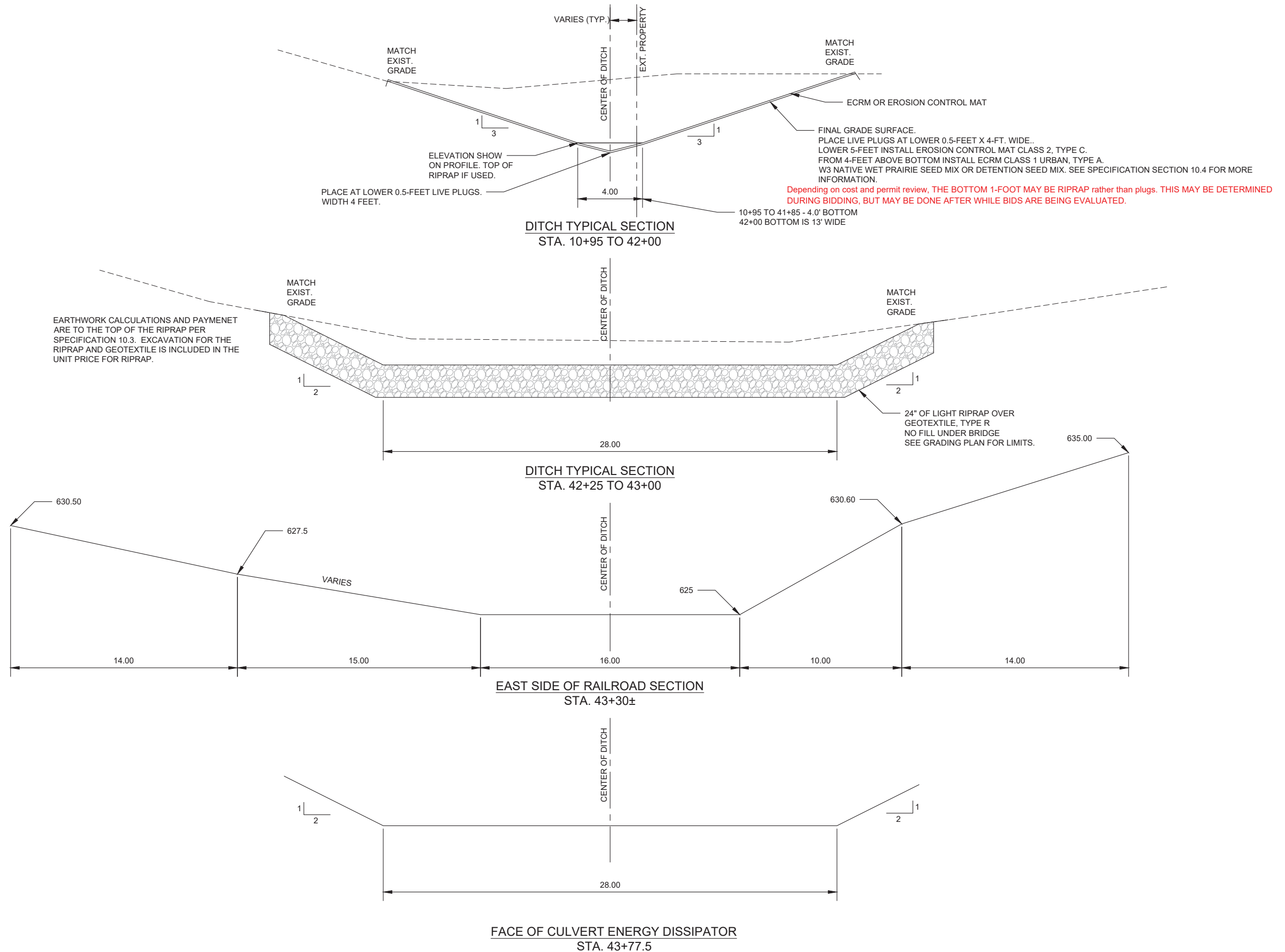


PROJECT NUMBER	8223-029.024	REVISION DATE		REMARKS	
SHEET NO.	C310				
CROSS SECTIONS - 10	ITALIAN HOLLOW DRAINAGE				
DAIRYLAND POWER COOPERATIVE					
GENOA, WISCONSIN					
DAVY ENGINEERING CO.					
LA CROSSE, WISCONSIN					
FIELDBOOK: 607					
SCALE: AS SHOWN					
DRAWN: KK					
CHECKED: DRC					
DATE: 03/31/2021					



PROJECT NUMBER	CROSS SECTIONS - 11	 DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	REVISION DATE	REMARKS
SHEET NO.	ITALIAN HOLLOW DRAINAGE			
	DAIRYLAND POWER COOPERATIVE		FIELDBOOK: 607	
	GENOA, WISCONSIN		SCALE: AS SHOWN	
			DRAWN: KK	
		CHECKED: DRC		
		DATE: 03/31/2021		

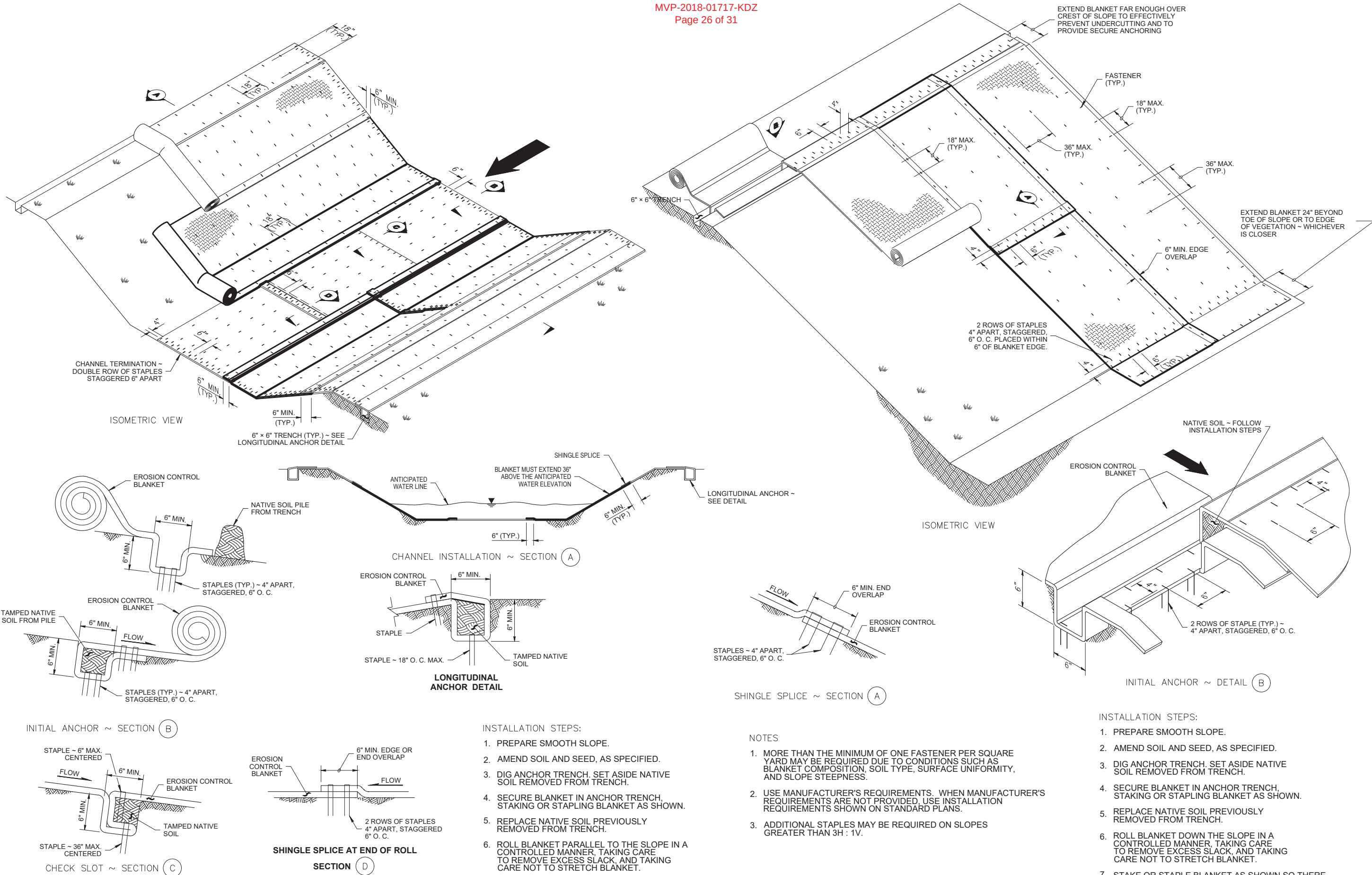
OVERLAY EROSION MAT 1' WHERE MATERIAL CHANGES
UNLESS THE MANUFACTURER REQUIRES MORE.



TYPICAL CROSS SECTIONS ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN  DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	FIELDBOOK: 607	REVISION DATE	REMARKS
	SCALE: AS SHOWN		
	DRAWN: KK		
	CHECKED: DRC		
	DATE: 03/31/2021		
PROJECT NUMBER 8223-029,024	SHEET NO. C500		

PROJECT NUMBER		8223-029.024	
SHEET NO.		C501	
EROSION CONTROL DETAILS ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN		 DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	
		FIELDBOOK: 607	REVISION DATE
		SCALE: AS SHOWN	
		DRAWN: KK	
		CHECKED: DRC	
		DATE: 03/31/2021	
			REMARKS

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**EROSION CONTROL MAT
CHANNEL INSTALLATION**

INSTALLATION STEPS:

1. PREPARE SMOOTH SLOPE.
2. AMEND SOIL AND SEED, AS SPECIFIED.
3. DIG ANCHOR TRENCH. SET ASIDE NATIVE SOIL REMOVED FROM TRENCH.
4. SECURE BLANKET IN ANCHOR TRENCH, STAKING OR STAPLING BLANKET AS SHOWN.
5. REPLACE NATIVE SOIL PREVIOUSLY REMOVED FROM TRENCH.
6. ROLL BLANKET PARALLEL TO THE SLOPE IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK, AND TAKING CARE NOT TO STRETCH BLANKET.
7. STAKE OR STAPLE BLANKET AS SHOWN SO THERE ARE NO GAPS BETWEEN THE BLANKET AND THE SOIL. STAPLE WHILE UNROLLING BLANKET TO MINIMIZE WALKING ON BLANKET.

NOTES

1. MORE THAN THE MINIMUM OF ONE FASTENER PER SQUARE YARD MAY BE REQUIRED DUE TO CONDITIONS SUCH AS BLANKET COMPOSITION, SOIL TYPE, SURFACE UNIFORMITY, AND SLOPE STEEPNESS.
2. USE MANUFACTURER'S REQUIREMENTS. WHEN MANUFACTURER'S REQUIREMENTS ARE NOT PROVIDED, USE INSTALLATION REQUIREMENTS SHOWN ON STANDARD PLANS.
3. ADDITIONAL STAPLES MAY BE REQUIRED ON SLOPES GREATER THAN 3H : 1V.

INSTALLATION STEPS:

1. PREPARE SMOOTH SLOPE.
2. AMEND SOIL AND SEED, AS SPECIFIED.
3. DIG ANCHOR TRENCH. SET ASIDE NATIVE SOIL REMOVED FROM TRENCH.
4. SECURE BLANKET IN ANCHOR TRENCH, STAKING OR STAPLING BLANKET AS SHOWN.
5. REPLACE NATIVE SOIL PREVIOUSLY REMOVED FROM TRENCH.
6. ROLL BLANKET DOWN THE SLOPE IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK, AND TAKING CARE NOT TO STRETCH BLANKET.
7. STAKE OR STAPLE BLANKET AS SHOWN SO THERE ARE NO GAPS BETWEEN THE BLANKET AND THE SOIL. STAPLE WHILE UNROLLING BLANKET TO MINIMIZE WALKING ON BLANKET.

**EROSION CONTROL MAT
SLOPE APPLICATION**

REVISION DATE	REVISIONS
FIELDBOOK: 607	SCALE: AS SHOWN
DRAWN: KK	CHECKED: DRC
DATE: 03/31/2021	
DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	
EROSION CONTROL DETAILS 2 ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN	
PROJECT NUMBER 8223-029.020	
SHEET NO. C502	

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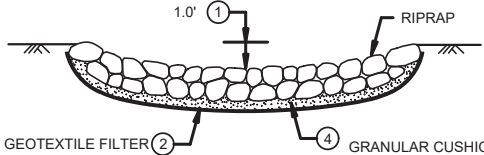
- SELECT EROSION MATING FROM APPROPRIATE MATRIX IN WDOT'S PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER **WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053**. SEE TYPICAL CROSS SECTION FOR LOCATION.
25. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
26. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL-APPLICABLE WDNR REMEDIATION AND WASTE MANAGEMENT REQUIREMENTS FOR HANDLING AND DISPOSING OF CONTAMINATED MATERIALS. SITE-SPECIFIC INFORMATION FOR AREAS WITH KNOWN OR SUSPECTED SOIL AND/OR GROUNDWATER CONTAMINATION CAN BE FOUND ON WDNR'S BUREAU OF REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM (BRRTS) PUBLIC DATABASE AT: <http://dnr.wi.gov/botw/>
27. THE CONTRACTOR SHALL PROVIDE THEIR SPILL PLAN DOCUMENT IF THERE IS A DISCHARGE OF SEDIMENT AND/OR OTHER CONTAMINANTS. A SPILL PLAN IS REQUIRED IF THERE IS POTENTIAL TO DISCHARGE CONTAMINANTS TO WATERS OF THE STATE.
28. INSTALL AND MAINTAIN A CONCRETE WASHOUT BASIN PER EPA 833-F-11-006: <https://www3.epa.gov/npdes/pubs/concretewashout.pdf>. REQUIRE USE BY ALL CONCRETE CONTRACTORS. LIQUID MAY BE REUSED IN CONCRETE MIXING, EVAPORATED, OR DISPOSED OF AS WASTEWATER. LIMIT EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION EQUIPMENT TO A DEFINED AREA OF THE SITE. CONTAIN RUNOFF AND PROPERLY DISPOSE OF WASTE. NO ENGINE DEGREASING IS ALLOWED ON SITE.
29. 32. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NEEDED (SUCH AS TEMPORARY SEDIMENT BASES, DITCH CHECKS, EROSION CONTROL MAT, PERIMETER BARRIER, FILTER SOCKS, SWALES, ETC.) OR AS DIRECTED BY THE OWNER.

NOTES:

1. 2' MINIMUM SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.
2. USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.

SILT CURTAIN

		LIGHT RIPRAP d 50 6"			MEDIUM RIPRAP d 50 9"			HEAVY RIPRAP d 50 12"		
DIA. OF ROUND PIPE (IN.)	L (FT.)	GEO- TEXTILE FILTER (SQ.YD.)	GRANULAR FILTER UNDER APRON (CU.YD.)	12" DEPTH RIPRAP (CU.YD.)	GEO- TEXTILE FILTER (SQ.YD.)	GRANULAR FILTER UNDER APRON (CU.YD.)	18" DEPTH RIPRAP (CU.YD.)	GEO- TEXTILE FILTER (SQ.YD.)	GRANULAR FILTER UNDER APRON (CU.YD.)	30" DEPTH RIPRAP (CU.YD.)
12	8	16.9	0.2	3.0	19.6	0.3	4.5	22.6	0.3	6.0
15	8	18.0	0.2	3.2	20.8	0.3	4.9	23.9	0.4	6.6
18	10	22.4	0.3	4.3	26.2	0.4	6.8	29.0	0.5	9.1
21	10	24.1	0.4	4.7	28	0.6	7.3	30.9	0.7	9.7
24	12	29.7	0.5	6.2	34	0.8	9.5	37.3	1.0	12.7
27	12	31.4	0.6	6.6	36	0.9	10.0	39.2	1.2	13.2
30	14	38.9	0.8	8.2	43	1.2	12.7	46.0	1.5	16.9
36	16	48.3	1.1	10.6	53.1	1.6	16.2	55.4	2.1	21.6
42	18	58.7	1.5	12.5	64.0	2.2	20.2	63.0	2.3	27.0
48	20	68.5	1.8	14.8	74.2	2.7	24	72.0	2.9	32.0

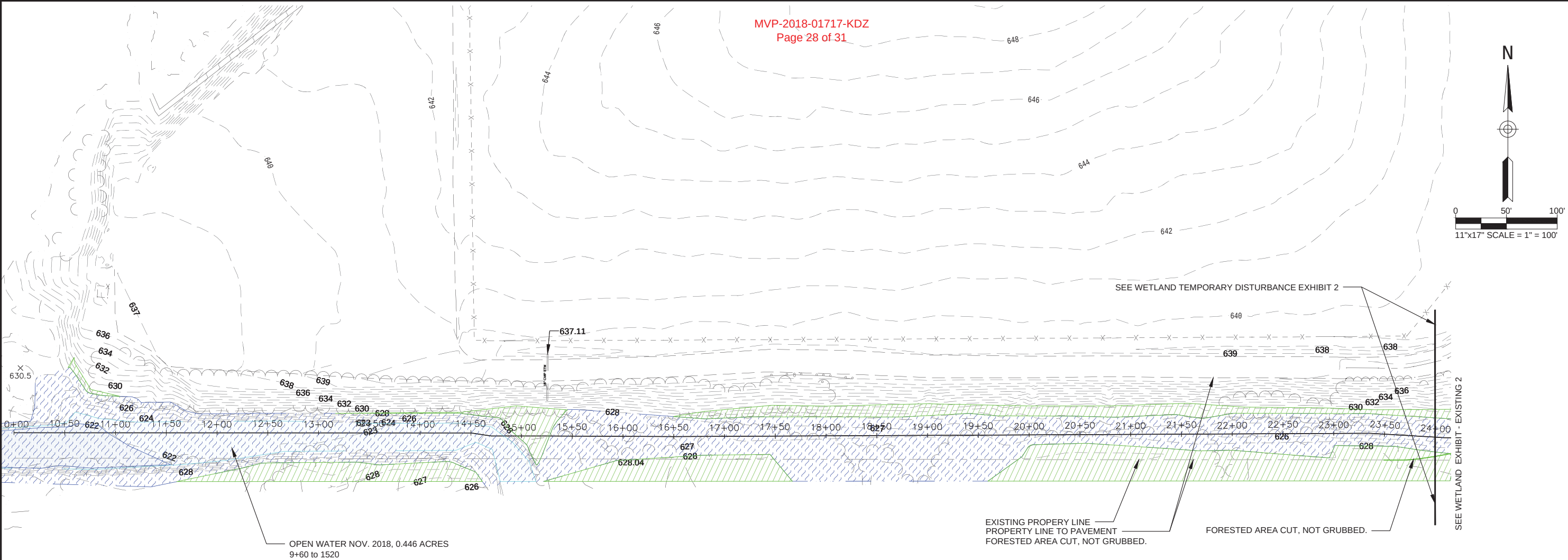


NOTES:
REQUIREMENTS FOR GEOTEXTILE TYPE, RIPRAP SIZE AND THICKNESS WILL
BE DESIGNATED IN THE PLANS.
PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.

- ① FOR PIPES GREATER THAN OR EQUAL TO 30", USE 1.5'.
- ② GEOTEXTILE FABRIC, SPEC. 606.3, SHALL COVER THE BOTTOM AND SIDES OF THE AREA EXCAVATED FOR THE RIPRAP.
- ③ DIMENSION E IS GIVEN ON STANDARD 8 F 1 DETAIL.
- ④ GRANULAR DENSE GRADED BASE 1-1/4", 6" THICK, MAY BE USED AS A CUSHION LAYER OVER TYPE R, RATHER THAN USING TYPE HR GEOTEXTILE FABRIC. THE CUSHION LAYER IS INCIDENTAL.
- ⑤ GRANULAR FILTER OR RIPRAP, SPEC. 305 OR 606 RESPECTIVELY, SHALL EXTEND UNDER ENTIRE OPEN PORTION OF PIPE APRON. DEPTH OF MATERIAL UNDER APRON SHALL MATCH RIPRAP DEPTH. WHEN USING RIPRAP INCREASE RIPRAP QUANTITY ACCORDINGLY AND PLACE A 3" LAYER OF 1.5" CRUSHED ROCK UNDER THE APRON TO AID IN GRADING FOR APRON PLACEMENT. CRUSHED ROCK IS INCIDENTAL.

PROJECT NUMBER		8223-029,024	
SHEET NO.		C503	
EROSION CONTROL NOTES ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN		 DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	
		FIELDBOOK: 607	REVISION DATE
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		DRAWN: KK	
		CHECKED: DHC	
		DATE: 03/31/2021	
			REMARKS

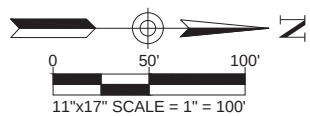
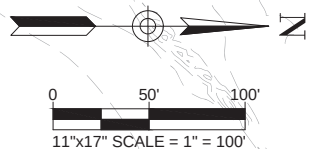
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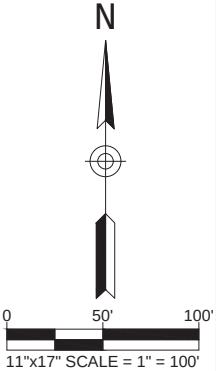
- OPEN WATER OBSERVED IN NOV. 2018 (0.993 ACRES) WEST OF STH 35.
- OPEN WATER OBSERVED IN NOV. 2020 AFTER A DRY SUMMER (0.345 ACRES).
- WATERWAY USING AN ORDINARY HIGH WATER ELEVATION OF 628 AT THE THIEF SLOUGH. (1.918 ACRES)
- EXISTING WETLAND BOUNDARY DELINEATED IN OCT. 2018 FOR WisDOT (0.115 ACRES) EAST OF STH 35.
- EXISTING FORESTED FLOODPLAIN (4.366 ACRES)
- EXISTING FRESH (WET) MEADOW (1.129 ACRES)
- FORESTED AREA CUT, NOT GRUBBED.

PROJECT NUMBER 8223-029.020	WETLAND EXHIBIT - EXISTING 1 ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN		DAVY ENGINEERING CO. LA CROSSE, WISCONSIN		REVISION DATE	REMARKS
	FIELDBOOK: 807		SCALE: AS SHOWN			
	DRAWN: KK/CSM		CHECKED: DRC			
	DATE: 03/31/2021					



-  OPEN WATER OBSERVED IN NOV. 2018 (0.993 ACRES) WEST OF STH 35.
-  OPEN WATER OBSERVED IN NOV. 2020 AFTER A DRY SUMMER (0.345 ACRES).
-  WATERWAY USING AN ORDINARY HIGH WATER ELEVATION OF 628 AT THE THIEF SLOUGH. (1.918 ACRES)
-  EXISTING WETLAND BOUNDARY DELINEATED IN OCT. 2018 FOR WisDOT (0.115 ACRES) EAST OF STH 35. OPEN WATER OBSERVED DEC. 2018 0.049 ACRES AND SHADED LIGHT BLUE.
-  EXISTING FORESTED FLOODPLAIN (4.366 ACRES)
-  EXISTING FRESH (WET) MEADOW (1.129 ACRES)
-  FORESTED AREA CUT, NOT GRUBBED.

PROJECT NUMBER	8223-029.020	WETLAND EXHIBIT - EXISTING 2 ITALIAN HOLLOW DRAINAGE DAIRYLAND POWER COOPERATIVE GENOA, WISCONSIN		DAVY ENGINEERING CO. LA CROSSE, WISCONSIN	FIELDBOOK: 607 SCALE: AS SHOWN DRAWN: KKGCSM CHECKED: DRC DATE: 3/31/2021	REVISION DATE	REMARKS
SHEET NO.							



DAVY ENGINEERING CO.
LA CROSSE, WISCONSIN

WETLAND TEMPORARY DISTURBANCE EXHIBIT 1
ITALIAN HOLLOW DRAINAGE
DAIRYLAND POWER COOPERATIVE
GENOA, WISCONSIN

PROJECT NUMBER
8223-029.024
SHEET NO.

	OPEN WATER OBSERVED IN 2018 WEST OF STH 35	
	OPEN WATER IN 2020 WEST OF STH 35	
	EXISTING WATERWAY USING AN ORDINARY HIGH WATER ELEVATION OF 628 AT THE THIEF SLOUGH.	
	EXISTING WETLAND BOUNDARY DELINEATED IN 2018 FOR WisDOT. EAST OF STH 35.	
	EXISTING FORESTED FLOODPLAIN	
	EXISTING FRESH (WET) MEADOW	
	PROPOSED WATERWAY WITH AN ORDINARY HIGH WATER ELEVATION OF 628.	
	FORESTED AREA CUT, NOT GRUBBED.	
	GRADING LIMITS APPROXIMATED WITHOUT TREE GRUBBING	
	FLOODPLAIN FOREST DISTURBED	1.633 ACRES
	FRESH WET MEADOW DISTURBED	0.686 ACRES
	TOTAL WETLAND DISTURBANCE	2.319 ACRES.

