щ)23	Index of Sheets				
AT		No.	Description			
Δ	$ \tilde{n} $	Sheets	Bridge Plan			
ŋ	പ്പ	A.1	Title Sheet			
É	$ \neg $	A.2	Location Map Sheet			
F	<u> </u>					
Ш	₹	V.1	General Notes and Estimated Quantites - Design 124			
		V.2	Design 124			
<u>_</u>	Q	Road Sheets	Road Plan			
ע	\sim	C.1	Estimated Quantities - Road			
=	ì	G.1-G.4	Survey Sheets			
5	\sim	J.1	Traffic Control Sheets			
υ		RC.1	Estimated Quantities - Erosion Control			
>	' I	RR.1-RR.2	Erosion Control Sheets			
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PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM DAVIS COUNTY Revetment

US 63 over Fabius Creek 2.1 miles south of S Jct SR J51

Refer to the Plan Sheets for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



The Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2015, plus applicable general supplemental specifications development specifications, supplemental specifications and special provisions shall apply to construction work on this project

St	anda Pla	rd Ro ans	ad
Standard R RC.1	oad Plans	are li sted	on C.1,

Design	Data F	Rural
2021 AADT	7	0 V.P.D.
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Index Of Seals					
Sheet No.	Name	Туре			
A.1	Robert Tipton	Structural Design & Roadway Design			



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B-06

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Revetment



ENGLISH DESIGN TEAM Stantec

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DAVIS COUNTY PROJECT NUMBER MB-063-5(505)3-77-26 PROJECT IDENTIFICATION NUMBER 23-26-063-010

CONTRACT ID NUMBER

PROJECT NUMBER MB-063-5(505)3--77-26

R.O.W. PROJECT NUMBER

PROJECT DIRECTORY NUMBER 2606301023

Structural Design					
PROFESSIONAT	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of lowa.].			
Tipton	G3-03-2023 Signature Robert Tipton Date				
10WA	Printed or Typed Name				
	My license renewal date is December 31, 2024				
Pages or sheets covered by this seal:A.1-A.2, V.1-V.2, C.1, J.1, RC.1 & RR.1-RR.2					
5	SHEET NUMBER A.1				



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LEGEND)	
NTERSTATE HIGHWAY		
RIMARY HIGHWAY-DIVIDED		
RIMARY HIGHWAY		
ORTLAND CEMENT CONCRETE ROAD		
ASPHALT ROAD		
ITUMINOUS ROAD		
GRAVEL ROAD		
ARTHEN ROAD		
NTERSTATE HIGHWAY	80	
JNITED STATES HIGHWAY	65	
TATE HIGHWAY	(237)	
OUNTY HIGHWAY	\$27	
IPELINE		
IRPORT	+	
YDROLOGY		
RIDGE		
TATE BOUNDARY		
OUNTY BOUNDARY		
CORPORATE BOUNDARY		
OWNSHIP LINE		
ECTION LINE		
OAD NAMES	ABBEY ROAD	
NINCORPORATED PLACE	ELWOOD	
TATE PARKS		
TATE INSTITUTIONS		
EDERAL LAND		

-26	-	SHEET NUMBER	A.2

ESTIMATED REVETMENT QUANTITIES

ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUAN.
1	2104-2710020	Excavation, Class 10, Channel	CY	120	
2	2402-0425031	Granular Backfill	TON	361	
3	2507-3250005	Engineering Fabric	SY	463	
4	2507-6800061	Revetment, Class E	TON	494	
5	2533-4980005	Mobilization	LS	1	

ESTIMATE REFERENCE INFORMATION

ITEM NO.	ITEM CODE	DESCRIPTION
1	2104-2710020	Refer to Sheet V.2. All waste must be removed from the project site. Material excavated for the revetment repairs will be used for fill needed for the project. Fill estimates include 25% shrinkage factor. The waste will become the property of the Contractor. It shall be the Contractor's responsibility to provide disposal sites for waste. It shall be the Contractor's responsibility to ensure that areas (including haul roads) selected for waste or disposal not impact 1) culturally sensitive sites or graves or 2) wetlands or "Waters of the U.S.". Including streams or stream banks below the ordinary high-water mark, without an approved U.S. Army Corps of Engineers 404 permit. No payment for overhaul will be allowed for material hauled to these sites.
2	2402-0425031	Estimated at 1.7 ton/cu yd. Granular backfill will be measured in tons of material placed. Granular backfill shall meet the gradation requirements in accordance with Article 4133.04, of the Standard Specifications. Percent passing the No. 200 sieve shall not exceed 5%. Includes furnish and placement of backfill material due to an anticipated deficit in on-site excavated material. Granular backfill shall not be procured and delivered to the site until completion of rough grading indicates additional material is needed to finish to the lines and grades shown on the drawings, or as directed by the engineer. Granular embankment include a 25% shrinkage factor.
3	2507-3250005	The tabulation includes estimated locations for placement of "Engineering Fabric" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 30% additional quantity for other locations of erosion. Engineering fabric shall be material as specified for embankment erosion control in accordance with Article 4196.01,B,3, of the Standard Specifications. Material shall be measured in sq. yard of actual area covered. Refer to Bank Protection Detail on Sheet V.2.
4	2507-6800061	The tabulation includes estimated locations for placement of "Revetment, Class E" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 30% additional quantity for other locations of erosion.Estimated at 1.6 ton/cu yd. Class E revetment shall meet requirements of Article 4130. Broken Concrete and granite is not allowed. Refer to details and locations on Sheet V.2.
L	1	1

GENERAL NOTES:

This design is for repairs to the existing berm along US 63 over Fabius Creek, Design 171. Project location is approximately 2.1 mi. S. of S Jct SR J51. Electronic copies of original design plans will be made available to the contractor as part of the e-files supplied with the contract documents.

Repairs shall consist of:

2. Cover fill with engineering fabric.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the contractor before starting construction

Refer to title sheet for traffic data.

Specifications:

work on this project.

Traffic Control Plan The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site (Includes This Design)

Design No.	Type of
171	Original
586	Barrier
101	Over
124	Revetr

1. Restore north berm at 2.5:1 slope as shown on sheet V.2. 3. Install Class E Revetment bank stabilization.

Construction: Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series of 2015, plus applicable general supplemental specifications, developmental specifications, supplemental specifications and special provisions shall apply to construction

Roadway Quantities showr elsewhere in these plans.



Design For Repairs to 0 Degree 168'-0 x 44'-0 Pretensioned					
Prestres	ssed Conc	rete B	eam Bridge		
51'-7 End Spans			64-10 Interior Span		
Gene	ral Notes	and C)uantities		
STA. 140+23.50	(Ç US 63)		Turn-in Date: June 2023		
Davis County					
IOWA DEPARTMENT OF TRANSPORTATION					
Design No. 124	Design Sheet N	o. 1 of 2	FHWA No. 22451		
	SHEET NUMBER	V.1			



Design For Repairs to 0 Degree 168'-0 x 44'-0 Pretensioned								
Prestres	sed Conci	rete B	leam Bridge					
51-7 End Spans			64-10 Interior Span					
	Situatio	on Pla	n					
STA. 140+23.50	(Ç US 63)		Turn-in Date: June 2023					
	Davis (County	У					
I	OWA DEPARTMENT	OF TRANSP	ORTATION					
Design No. 124	Design Sheet No	o. 2 of 2	FHWA No. 22451					
	SHEET NUMBER	V.2						

	PROJECT DESCRIPTION			100-1D 10-18-05			ESTIMATE REFERENCE
This Project is to install 2	feet of Class E revetment along the north abutment berm.				Item No.	Item Code	
					1	2528-8445110	TRAFFIC CONTROL Refer to C.1 for Standard Road Plans and J sheets for T
					2	- 2101-0850001	- CLEANING AND GRUBBING Refer to Sheet V.2. All material generated as a result of and must be disposed off site. All wood material must b Stewardship Emerald Ash Borer Quarantine Order. For n
	ESTIMATED ROADWAY OUANTITIES			100-0A 10-28-97		-	
Them No. Them Code	(1 DIVISION PROJECT)	Unit	Total				
1 2101-085000	CLEANING AND GRUBBING	AC	0.1	AS BUILL QLY.			
2 2528-8445111 3 2528-8445111	TRAFFIC CONTROL FLAGGERS	LS EACH	1.00 See Proposal				STANDARD ROAD
					Number	Date	The following Standard Road Plans ap
					TC-1 TC-202 TC-213	10-15-19 4-18-23 4-18-23	Work Not Affecting Traffic (Two-Lane or Multi-Lane) Work Within 15 ft of Traveled Way Lane Closure with Flaggers
	SEE R AND V SHEETS FOR ADDITIONAL BID ITEMS AND QUANTITIES						

	262-6 10-18-05
UTILITIES	
(NOT A POINT 25 PROJECT)	
This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.	

	i				
FILE NO.	32311	ENGLISH	design team Stantec	DAVIS COUNTY	PROJECT NUMBER MB-063-5(505)377-26
3:41:31 PM	5/15/2023	mjverhe	yen pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\2606301023\Bridge\(505)_	Revetment\SHT_026063010_STN_C1.dgn	

100-4A 10-29-02

E INFORMATION

Description

Traffic Control Notes.

t of Clearing and Grubbing shall become the property of the contractor t be disposed of according to Iowa Department of Agriculture and Land more information see www.iowatreepests.com.

PLANS

105-4 10-18-11

pply to construction work on this project. Title

5	SHEET NUMBER C.1	

Survey Information

SURVEY INDEX

COUNTY: DAVIS PIN: 23-26-063-010 PROJECT NUMBER: MB-063-5(505)3--77-26 LOCATION: 2.1 MI. S OF S JCT SR J51 **TYPE OF WORK: RIP RAP** PROJECT DIRECTORY: 2606301023

SURVEY PERSONNEL

Nolan Dotts – Survey Party Chief Pedro Zamora – Assistant Survey Party Chief

DATE(S) OF SURVEY

Begin Date 02/28/2023 End Date 03/01/2023

GENERAL INFORMATION

This survey is for Rip Rap along the north bank of the North Fabius River below the US hwy 63 bridge. This survey request was for the North Fabius River banks and berm transitions to US hwy 63.

UTILITY INFORMATION

For logging data and other utility details see Utility Survey and Ownership Report in the Utility Folder of the Prelim Survey Directory.

PROJECT CONTROL

Coordinates were determined Using the IRCS Network and taking 3 observations at each control point throughout the day and averaging those positions. For additional details of the control survey, contact ISG Inc.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) Coordinate system: IOWA REGIONAL COORDINATE SYSTEM ZONE 12 (U.S. SURVEY FOOT) **VERTICAL DATUM: NAVD88 GEOID MODEL: GEOID 12B**

ALIGNMENT INFORMATION

The horizontal alignment for U.S. Hwy 63 is a retrace of As-Built Plans No. F-63-1(8)--20-26. Survey Stationing was equated to the CL of Pier No.1 at STA 139+91.08 and run back/ahead without equation throughout survey.

Survey stationing relates to As-Built plan stationing as follows:

CL of Pier No.1 STA 139+91.08 As-Built Plans Project No. F-63-1(8)--20-26 Survey CL of Pier No.1 STA 139+91.08

FILE NO. 32311	ENGLISH	DESIGN TEAM Stantec	Daviscounty	PROJECT NUMBER MB-063-5(505)377-26
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6	SHEET NUMBER G.01	

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 12 (U.S. Survey Foot) VERT. DATUM: NAVD88 - Geoid Model: 2018u2 or 2018u3 Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

FILE NO. 32311	ENGLISH	DESIGN TEAM Stantec	Davis county	PROJECT NUMBER MB-063-5(505)377-26	SHEET NUMBER G.02	
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HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) Ia. Regional Coordinate System Zone 12 (U.S. Survey Foot) VERT. DATUM: NAVD88 Geoid Model: 2018u3 or 2018u2

POINTNAME	NORTHING	EASTING	ELEVATION	FEATURE DEFINITION - DESCRIPTION
CP1	6098415.265	22840392.430	842.528	CP - IRON BAR YELLOW PLASTIC CAP
CP2	6097001.715	22840436.322	893.429	CP - IRON BAR YELLOW PLASTIC CAP
CP3	6098028.557	22840469.370	855.401	CP - IRON BAR YELLOW PLASTIC CAP
CD4	6000184 462		020 270	
CP4	6099184.462	22840447.540	838.278	CP - IRON BAR YELLOW PLASTIC CAP
CP5	6098628.713	22840446.032	840.144	CP - MAGNETIC NAIL
CP10	6098626.863	22840381.295	830.671	CP - TEMPORARY NAIL
CP11	6098650.787	22840465.327	822.381	CP - TEMPORARY NAIL

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								ALI	GNMENT C	OORDINAT	ES								101-16 10-20-09
		Point on Tangent		t	Begin Spiral		Begin Curve		Simple Curve PI or Master PI of SCS		End Curve		End Spiral						
Name	Location	Station	Coordi	Inates	Station	Coordi	Inates	Station	Coord	Inates	Etation	Coord	Inates	Station	Coordi	Inates	Station	Coordi	Inates
		Station	Y (Northing)	X (Easting)	Station	Y (Northing)	X (Easting)	Station	Y (Northing)	X (Easting)	Station	Y (Northing)	X (Easting)	Station	Y (Northing)	X (Easting)	Station	Y (Northing)	X (Easting)
1	US 63	137+05.07	6098387.039	22840431.704															
2	US 63	144+43.82	6099125.611	22840415.501															

FILE NO. 32311	ENGLISH	DESIGN TEAM Stantec	Davis county	PROJECT NUMBER MB-063-5(505)377-26	SHEET NUMBER G.04	
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	108-23 08-01-
TRAFFIC CONTROL PLAN	
Traffic on US 63 shall be maintained at all times.	
Lane closures on US 63:	
 Lane closures shall be limited to delivery and removal of equipment and materials. 	

511 TRAVEL RESTRICTIONS

Route Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
		No restrictions expected.									

FILE NO. 32311	ENGLISH	DESIGN TEAM STANTEC	DAVIS COUNTY PROJECT NUMBER	MB-063-5(505)3
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108-25 10-21-14

377-26	SHEET NUMBER	J.1	

100-1A 07-15-97

ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty
1	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	200	
2	2602-0000212	FLOATING SILT CURTAIN (HANGING)	LF	200	
3	2602-0000240	MAINTENANCE OF FLOATING SILT CURTAIN	LF	100	
4	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	200	
5	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	200	

		111-25 10-18-11		
	INDEX OF TABULATIONS			
Tabulation	Tabulation Title	Sheet No.		
RC Sheets				
100-1A	ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)	RC.1		
100-4A	ESTIMATE REFERENCE INFORMATION	RC.1		
100-10	FLOATING SILT CURTAINS	RC.1		
105-4	STANDARD ROAD PLANS	RC.1		
111-25	INDEX OF TABULATIONS			
232-3A	EROSION CONTROL (RURAL SEEDING)			
232-3C	EROSION CONTROL (NATIVE GRASS SEEDING)	RC.1		
281-1	SECTION 404 PERMIT AND CONDITIONS	RC.1		
281-3	STORM WATER BEST MANAGEMENT PRACTICES	RC.1		
282-1	RESTRICTED STREAM ACCESS	RC.1		
		105- 10-18-1		
	STANDARD ROAD PLANS	10 10 1		
	The following Standard Road Plans apply to construction work on this project.			
Number	Date Title			
EC-202	10-21-14 Floating Silt Curtain			
EC-204	04-20-21 Perimeter, Slope and Ditch Check Sediment Control Devices			
EC-303	10-20-20 Stabilized Construction Entrance			

			100-4A 10-29-02
		ESTIMATE REFERENCE INFORMATION	
Item No.	Item Code	Description	
1	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303 	
2	2602-0000212	- FLOATING SILT CURTAIN (HANGING) 	
- 3	- 2602-0000240	- MAINTENANCE OF FLOATING SILT CURTAIN 	
4	2602-0000312	- PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA. Item is included for temporary perimeter sediment control, inlet protection, and water velocity reduction on slopes at locations to be determined during construction. Verify specific locations with the Engineer prior to beginning placement.	
- 5	- 2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTR OL DEVICE	
-	-		

282-1 10-19-10 RESTRICTED STREAM ACCESS A low water crossing for the Contractor's convenience is not allowed on this project. Stream hank disturbance and access to	0-10 21-14	10 10-2 NS		G SILT Refer to EC-2		F
Fabius Creek is not allowed unless specifically designated in the plans. No other access will be allowed. 281-3	Remarks	Maintenance of Floating Silt Curtain	Clean-out (Contairment)	- Contairment	- Hanging	Station
STORM WATER		100.0			200.0	140+15.00
BEST MANAGEMENT PRACTICES When the following best management practices are used, they are intended to account for disturbed areas where storage volume cannot be provided: Floating Silt Curtains, PSSCD, Seeding		100.0			200.0	Total

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.
Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

Standard Specifications.

04-21-15 Seeding in Rural Areas

EROSION CONTROL (RURAL SEEDING)

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area lying 8 feet adjacent to shoulder and median as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03, B of the Standard Spacifications

EC-204 EC-303 EC-502

FILE NO. 32311 ENGLISH DESIGN TEAM STANTEC

232-3A 10-19-21

				28: 10-18	1-1
SECTION	404 P	ERMIT	AND	CONDITIONS	
Construct this pr Corps of Engineer copy of this perm (http://www.envpe Engineers reserve notice.	oject acco s Nationwi it is avai rmits.iowa s the righ	rding to th de, Permit lable from dot.gov/). t to visit	ne requin No.3. A the Iowa The U.S. the site	rements of U.S. Army DOT website Army Corps of without prior	

377-26	SHEET NUMBER	RC.1	

LINESTYL	LE LEGEND OF ERUSION CONTROL SHEETS			IN VIEW COLOR LEG
	E Design Element	-	Green	(2) Existing Topogr
	Perimeter and Slope Sediment Control Device (9")		Blue	(1) Proposed Alignr
12 12 12 12	Perimeter and Slope Sediment Control Device (12")		Magenta	(5) Existing Utilities
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Perimeter and Slope Sediment Control Device (20")		Black	(0) Permanent Eros
	Open-Throat Curb Intake Sediment Filter		Blaze Orange	(222) Temporary Eros
· _ <	Concentrated Flow			
```````````````````````````````````````	See Rock Check and Rock Check Dam		SHADING	Design Color No.
	TTTT Sheet How		Citron	(234) Mulching, All Ty
			Light Brown	(238) Special Ditch C
			Grass Green	(233) 8FT MOW Strip (3) Delineates Rest
			nea	
	LECEND OF FRACION CONTROL SUFETS	7		
	LEGEND OF EROSION CONTROL SHEETS			PATTERN LEGEND
		_	Seedin	a and Fertilizing
	Temporary Sediment Control basin			g ana i craneng
	remporary seament control busin		Soodin	a and Fortilizing (Pural)
•	Erosion Control for Circular Intake or Manhole Well		R	ig and Fertilizing (Kurai)
0	Erosion Control for Rectangular Intake or Manhole Well		Seedin	a and Fertilizing (Urban)
	Grate Intake Sediment Filter Bag			g and i e an <u>a</u> ng (e aon,
	Silt Basin		Native	Grass Seeding
e e e e e e e e e e e e e e e e e e e	Silt Fence Tail			
			Salt To	plerant Seeding
-	Stormwater Drainage Basin Discharge Point		51	
			Wetlar	nd Grass Seeding
			WL	· · · · · · · · · · · · · · · · · · ·
			WF Wildflo	ower Seeding
			Wildflo	wer Seeding
			WF Wildflo	wer Seeding Ig
			Wildflo	wer Seeding g
			Wildflo	wer Seeding g
			Wildflo	wer Seeding

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FILE	NO. 32311	ENGLISH	DESIGN TEAM STANTEC	DAVIS COUNTY	PROJECT NUMBER MB-063-5(505)377-2
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### EGEND OF EROSION CONTROL SHEETS

bographic Features and Labels lignment, Stationing, Tic Marks, and Alignment Annotation lities Erosion Control Features Erosion Control Features

II Types ch Control, Wood Excelsior Mat trip Restricted Areas 
 Transparency

 50%

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## ND OF EROSION CONTROL SHEETS

	Turf Reinforcement Mat Type 1
$\begin{array}{c} 02 \\ 0 \\ 0 \\ 0 \\ 02 \\ 0 \\ 02 \\ 0 \\ 02 \\ 0 \\ 0$	Turf Reinforcement Mat Type 2
	Turf Reinforcement Mat Type 3
	Turf Reinforcement Mat Type 4
$ \begin{array}{c}                                     $	Slope Protection, Wood Excelsior Mat
	Transition Mat
P. P.	Rock Features, Permanent
T	Rock Features, Temporary

# EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES R)

SHEET NUMBER RR.1



3:45:09 PM 5/15/2023 mjverheyen pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\2606301023\Bridge\(505)_Revetment\SHT_026063010_STN_RR2.dgn