

APPLICANT INFORMATION

I.

FUTURE FISHERIES IMPROVEMENT PROGRAM GRANT APPLICATION All sections must be addressed, or the application will be considered invalid



City Tele B. Cor Add City Tele C. Lar (if c	illing Address: y: ephone: ntact Person (if different than applicant): dress: y: ephone: ndowner and/or Lessee Name different than applicant): illing Address:	State: E-mail: State: E-mail:	Zip:Zip:
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City Tele C. Lar (if c	ephone: ndowner and/or Lessee Name different than applicant):	State: E-mail:	Zip:
C. Lar (if c	ndowner and/or Lessee Name different than applicant):		
C. Lar (if c	ndowner and/or Lessee Name different than applicant):		
	iling Address:		
	y:		
Tel	ephone:	E-mail:	
II. PROJE	CT INFORMATION		
A. Pro	pject Name:		
Riv	ver, stream, or lake:		
Loc	cation: Township:	Range:	Section:
	Latitude:	Longitude:	vithin project (decimal degrees)
Cou	unty:		
B. Pur	rpose of Project:		

Э.	Brief Project Description (attach additional information to end of application):

D.	Length of stream or size of lake that will length/size of impact, if larger than project		
E.	Project Budget:		
	Grant Request (Dollars):	\$	
	Matching Dollars:	\$	
	Matching In-Kind Services:*	\$	
	• , ,		e not considered matching contributions
Other C	Contributions (not part of this application) Total Project Cost:	\$ \$	
F.	Attach itemized (line item) budget – see	buc	dget template
G.	Insert or attach a project location map s town. Please indicate if the project location		ving the project area in relation to a major landmark or s on public or private property.
Н.	channel modifications], example photogra	aph a <i>lva</i>	ketches, plan views [showing location and type of s), current condition photographs, and maps. *If ge complete and attach a supplemental questionnaire ent2.doc).
I.	Attach letters or statements of support. Support, and fish biologist support.	Γhis	includes landowner consent, community or public
J	. , ,		aintenance commitment. Please indicate (yes or no) years. Discuss your ability to meet this commitment.
K.	Describe or attach land management & regimes, that will ensure protection of the		intenance plans, including changing to grazing stored area.

B. How will the project protect or enhance wild fish habitat? C. Will the project improve fish populations and/or fishing? To what extent? D. Will the project increase public fishing opportunity for wild fish and, if so, how? What was the cause of habitat degradation in the area of this project and how will the project correct the cause?	۹.	What species of fish will benefit from this project?
C. Will the project improve fish populations and/or fishing? To what extent? D. Will the project increase public fishing opportunity for wild fish and, if so, how? What was the cause of habitat degradation in the area of this project and how will the project.		
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		Correct the cause:
1		

۲.	what public benefits will be re	alized from this project?
G.	Will the project interfere with v	water or property rights of adjacent landowners? (explain):
Н.	Will the project result in the de	evelopment of commercial recreational use on the site? (explain):
l.	Is this project associated with	the reclamation of past mining activity?
Parks s	pecifying terms and duration	et enter into a written agreement with Montana Fish, Wildlife & of the project. The applicant must obtain all applicable permits etitive bid process must be followed when using State funds.
l (v acc	•	mation and all statements to this application are true, complete, and owledge and that the project or activity complies with rules of the gram.
Applican	nt Signature: Ryen N	Peudscker Date:
Sponsor		
		ned and received before December 1 and June 1 of each year to unding period. Late or incomplete applications will be rejected.
Mail to:	FWP Future Fisheries	Email: Future Fisheries Coordinator
	Fish Management Bureau PO Box 200701	FWPFFIP@mt.gov (electronic submissions must be signed)
	Helena, MT 59620-0701	For files over 10MB, use https://transfer.mt.gov

Applications may be rejected if this form is modified.

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

Both tables must be completed or the application will be returned

PROJECT COSTS						CONTRIBUTIONS						
WORK ITEMS						OTHER						
(Itemize by	NUMBER OF	UNIT				FU	TURE FISHERIES	l M	ATCH (Cash	(Not part of this		
Category)	UNITS	DESCRIPTION*	COST/UNIT		TOTAL COST		REQUEST		r Services)**	application)		TOTAL
Personnel***	00	22001111 11011	0001,011		1011120001					жүү жан ту		101712
Survey	20	hours	\$100.00	\$	2,000.00			\$	2,000.00		\$	2,000.00
Design		hours	\$120.00		8,160.00			\$	8,160.00		\$	8,160.00
Engineering		hours	\$120.00		7,800.00			\$	7,800.00		\$	7,800.00
Permitting		hours	\$55.00		1,760.00			\$	1,760.00		\$	1,760.00
Oversight		hours	\$120.00	\$	4,800.00			\$	4,800.00		\$	4,800.00
Staking	1	Lump sum	\$1,500.00	\$	1,500.00			\$	1,500.00		\$	1,500.00
			Sub-Total	\$	26,020.00	\$	-	\$	26,020.00	\$ -	\$	26,020.00
<u>Travel</u>								•			••	
Mileage	1100	miles	\$0.58	\$	638.00				638.00		\$	638.00
Per diem				\$	-						\$	-
			Sub-Total	\$	638.00	\$		\$	638.00	\$ -	\$	638.00
Construction Ma	terials****											
Gravel Base												
Course	126	Lump sum	\$35.00	\$	4,410.00				4,410.00		\$	4,410.00
Gravel Surface		21		•								
Course	77	CY	\$42.00	\$	3,234.00				3,234.00		\$	3,234.00
Imported structural												
backfull	50	CY	\$32.00	Ф	1,600.00				1,600.00		\$	1,600.00
Roadway	30	01	Ψ32.00	Ψ	1,000.00				1,000.00		Ψ	1,000.00
embankment	156	CY	\$16.00	\$	2,496.00				2,496.00		\$	2,496.00
Precast Grade			V 10100	*					_,		7	
Beams	1	Lump sum	\$15,000.00	\$	15,000.00		3,000.00		12,000.00		\$	15,000.00
Riprap, Class 3	60	cubic yards	\$85.00	\$	5,100.00				5,100.00		\$	5,100.00
Steel												
Superstructure	1	Lump sum	\$13,500.00	\$	13,500.00	-	3,000.00		10,500.00		\$	13,500.00
Corrugated steel	4		#00.000.00	Φ.	00 000 00		0.000.00		40.000.00		Φ.	00 000 00
deck Galvanized	1	lump sum	\$22,600.00	Þ	22,600.00		3,000.00		19,600.00		\$	22,600.00
corrugated steel												
backwall	1	Lump sum	\$3,200.00	\$	3,200.00				3,200.00		\$	3,200.00
Timber Curb		Lump sum	\$8,000.00		8,000.00				8,000.00		\$	8,000.00
	·		Sub-Total	\$		\$	9,000.00	\$	70,140.00	\$ -	\$	79,140.00
Equipment, Lab	or, and Mobiliz	ation		_	12,113.00	T	2,223.00		,		<u>,, , , , , , , , , , , , , , , , , , ,</u>	
Soil Erosion &												
Pollution Control	1	Lump sum	\$3,400.00	\$	3,400.00				3,400.00		\$	3,400.00

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

Removal of								
Existing Culverts	1 Lump sum	\$2,800.00	\$	2,800.00	800.00	2,000.00		\$ 2,800.00
Install Steel								
superstructure	1 Lump sum	\$5,000.00	\$	5,000.00	1,000.00	4,000.00		\$ 5,000.00
Install grade								
beams	1 Lump sum	\$3,000.00	\$	3,000.00	500.00	2,500.00		\$ 3,000.00
Hydraulic								
Excavator	20 hours	\$132.00	\$	2,640.00	1,000.00	1,640.00		\$ 2,640.00
Dump Truck	8 hours	\$105.00	\$	840.00		840.00		\$ 840.00
Install steel deck								
& steel backwall	1 Lump sum	\$9,300.00	\$	9,300.00	2,000.00	7,300.00		\$ 9,300.00
Mobilization	1 Lump sum	\$9,000.00	\$	9,000.00		9,000.00		\$ 9,000.00
			\$	-				\$ -
		Sub-Total	\$	35,980.00	\$ 5,300.00	\$ 30,680.00	\$ -	\$ 35,980.00
	TOTALS \$ 141,778.00				\$ 14,300.00	\$ 127,478.00	\$ -	\$ 141,778.00

OTHER REQUIREMENTS:

All of the columns in the budget table and the matching contribution table MUST be completed appropriately or the application will be invalid. Please see the example budget sheet for additional clarification.

*Units = feet, hours, inches, etc. Do not use lump sum unless there is no other way to describe the costs.

**Can include in-kind materials. Justification for in-kind labor (e.g. hourly rates used). Do not use government salaries as match. Describe here or in text.

***The Review Panel suggests that design and oversight costs associated with a proposed project not exceed 15% of the total project budget. If design and oversight costs are in excess of 15%, applications must include a justification or minimum of two competitive bids for the cost of undertaking the project.

****The Review Panel recommends a maximum fencing cost of \$1.50 per foot. Additional costs may be the responsibility of the applicant and/or partners.

Additional details:

APPLICATION MATCHING CONTRIBUTIONS									
(do not include requested funds or contributions not associated with the application)									
CONTRIBUTOR		IN-KIND		CASH		TOTAL	Secured? (Y/N)		
DARLOA	\$	-	\$	25,000.00	\$	25,000.00	Yes		
USFWS Partners for Fish & Wildlife Program			\$	55,000.00	\$	55,000.00	Yes		
USFWS Fish Passage	\$	-	\$	20,000.00	\$	20,000.00	Yes		
BBCTU	\$	3,000.00	\$	24,478.00	\$	27,478.00	Yes		
	\$	-	\$	-	\$	-			
TOTALS	\$	3,000.00	\$	124,478.00	\$	127,478.00			

OTHER CONTRIBUTIONS

Pages 2 of 3 (Revised 5/27/2021)

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

(contributions not associated with the application)							
CONTRIBUTOR	IN-KIND	CASH	TOTAL	Secured? (Y/N)			
	\$ -	\$ -	\$ -				
	\$ -	\$ -	\$ -				
	\$ -	\$ -	\$ -				
	\$ -	\$ -	\$ -				
	\$ -	\$ -	\$ -				
	\$ -	\$ -	\$ -				
	\$ -	\$ -	\$ -				
	\$ -	\$ -	\$ -				
TOTALS	\$ -	\$ -	\$ -				



United States Department of the Interior FISH AND WILDLIFE SERVICE

MONTANA PARTNERS FOR FISH & WILDLIFE PROGRAM PO Box 66

Ovando, Montana 59854 406/793.7400

IN REPLY REFER TO:

May 27, 2021

Montana Fish, Wildlife & Parks Future Fisheries Review Committee 1420 E 6th Ave Helena, MT 59620

Dear Committee Members:

This letter is in reference to the Trail Creek & Willow Creek Fish Passage Projects located in the Blackfoot Watershed being proposed by the Big Blackfoot Chapter of Trout Unlimited. The U.S. Fish and Wildlife Service fully supports these projects because of the incredible biological values associated with them.

The Partners for Fish and Wildlife has a long history of working with the associated private landowners and other partners collaborating to restore the native trout fishery of these important tributaries to the Blackfoot River. This project is exciting in that we will be able to continue our efforts of restoring native trout within the watershed by working with committed landowners.

We commend the efforts of the many partners for their time and due diligence with these important projects and urge the Future Fisheries Review Committee to support these grant applications.

If you have any questions regarding this project, feel free to contact me.

Sincerely,

Greg Neudecker

State Coordinator

Partners for Fish and Wildlife Service

Dregon A. Muled





THE OUTSIDE IS IN US ALL.

Region 2 Headquarters 3201 Spurgin Road Missoula, MT 59804 Phone 406-542-5506 May 27, 2021

Future Fisheries Improvement Program C/O Michelle McGree Montana Fish, Wildlife & Parks P.O. Box 200701 1420 E. 6th Avenue Helena, MT 59620

RE: Big Blackfoot Trout Unlimited FFIP Proposal - Trail Creek Crossing Improvement

Dear Review Committee Members:

This letter in written in support of Trout Unlimited's application for Future Fisheries Improvement Program funding for enhancement of lower Trail Creek near Seeley Lake. Trail Creek is the largest tributary of Morrell Creek, a native trout stronghold in western Montana and one of six primary migratory Bull Trout tributary core areas in the greater Blackfoot River Basin. The Morrell-Trail Cr watershed is unique among these populations, as this system supports one of the only viable *adfluvial* (lake-migrant) Bull Trout populations in the upper Clark Fork drainage. Migratory and stream-resident Westslope Cutthroat Trout are also prevalent.

Morrell and Trail Creeks are a regional priority for protection and restoration because of their native fish assemblage, cold water, and high quality habitat. The proposed project enhances these values and will complement numerous recent projects involving fish passage, channel improvements, irrigation diversion upgrades, and large-scale public land acquisitions in the watershed. Over the past decade, \$ Millions have been invested in this tributary stream system to protect and enhance native trout.

The proposed project involves replacement of an undersized culvert with a bridge on main stem Trail Creek near its confluence with Morrell Creek. The crossing is part of a more complex channel change and habitat enhancement where a braided section of Trail Creek is transitioning to a new primary channel location. The proposed project will facilitate this transition as it converts the primary channel from a subdivided, largely denuded reach to a vegetated subdivision common area. The new channel location (including bridge site) will promote upstream fish passage and higher habitat quality over a ~0.25 mile stream reach, as well as provide better stream access for local residents.

Fortunately, an established long-term fisheries and aquatic habitat monitoring baseline already exists in the Morrell-Trail Creek basin. This baseline not only guides the prioritization of enhancement projects, but is also used to inform management decisions and track fisheries and aquatic project response. Monitoring effort and commitment will continue on Trail and Morrell Creeks, reflecting the prioritization and importance of these watersheds for native trout and public fishery resources.

This project is certainly worthy of Future Fisheries funding and cost-effectively complements major, recent investments in the Morrell and Trail Creek watersheds. Please don't hesitate to contact me if you would like additional information regarding past, ongoing and planned projects in the basin or for updated monitoring data.

Sincerely,

W. Ladd Knotek

Fisheries Management Biologist

TRAIL CREEK EXISTING STREAM CROSSING PHOTOS









021-2021 Trail Creek fish passage

PROJECT LOCATION

BIG BLACKFOOT CHAPTER OF TROUT UNLIMITED (BBCTU) TRAIL CREEK BRIDGE

FINAL REVIEW

SECTION 11, TOWNSHIP 16 NORTH, AND RANGE 15 WEST

TROUT UNLIMITED **BBCTU**

PLANS PREPARED FOR: BIG BLACKFOOT CHAPTER OF

APPROVED BY:

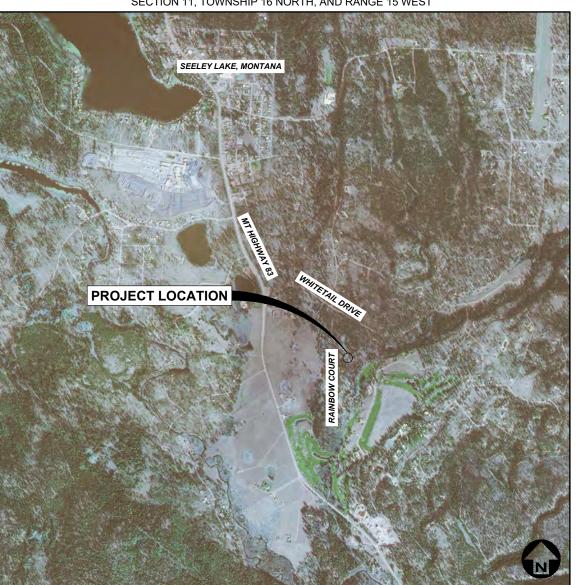
RYAN ELLIOTT, P.E. GREAT WEST ENGINEERING



PLANS PREPARED BY:

EVAN CARROLL, E.I.





NOT TO SCALE

SHEET INDEX

PROJECT: 1-19182-TO4 DATE: MARCH 3, 2021

SHEET 1 SHEET 2

LEGEND AND GENERAL NOTES SHEET 3 RAINBOW COURT PLAN & PROFILE TRAIL CREEK PLAN & PROFILE BRIDGE PLAN & ABUTMENT ELEVATION BEARING AND BACKWALL DETAILS SHEET 5 SHEET 6 SHEET 7 GIRDER FRAMING PLAN MISCELLANEOUS DETAILS

EXISTING GIRDER PHOTOS TRAIL CREEK CROSS-SECTIONS SHEET 9 SHEET 10 RAINBOW COURT CROSS-SECTIONS

REVISION DESCRIPTION

NOT TO SCALE

SHEET NUMBER WHERE DETAIL OR SECTION IS SHOWN

XFMR

X-ING

RATE OF VERTICAL CURVATURE

POUNDS LINEAR FEET

LBS LF LN TRANSFORMER

CROSS SECTION

YARD

021-2021





5

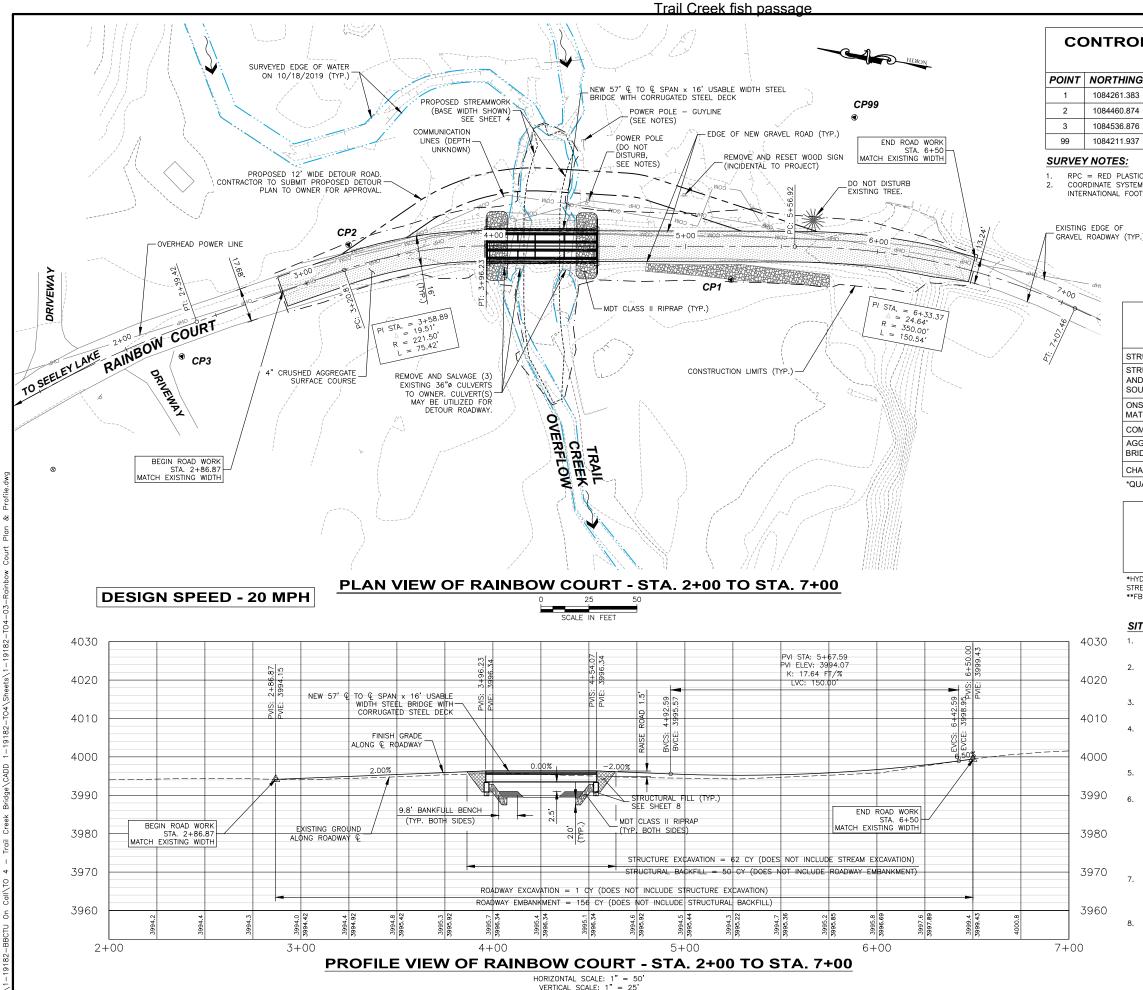
BBCTU TRAIL CREEK BRIDGE NOTES

GENERAL

AND

-EGEND

SHEET NO.



CONTROL POINT COORDINATE **TABLE**

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION				
1	1084261.383	983341.03	3991.82	REBAR W/ RPC				
2	1084460.874	983326.099	3993.58	REBAR W/ RPC				
3	1084536.876	983254.401	3993.64	REBAR W/ RPC				
99	1084211.937	983435.003	3993.55	REBAR W/ RPC				

- RPC = RED PLASTIC CAP
- COORDINATE SYSTEM USED IS NAD83 MONTANA STATE PLANES,

GRAVEL ROADWAY (TYP.)

INFORMATIONAL QUANTITIES*

STRUCTURE EXCAVATION	62	CY	
STRUCTURAL BACKFILL (FOUNDATION FILL AND FILL BEHIND GRADE BEAMS, ONSITE SOURCE)	50	CY	
ONSITE-SOURCED ROADWAY EMBANKMENT MATERIAL	156	CY	
COMMERCIAL-SOURCED MDT CLASS II RIPRAP	60	CY	
AGGREGATE SURFACE COURSE (ROAD AND BRIDGE)	77	CY	
CHANNEL EXCAVATION MATERIAL	328	CY	

*QUANTITIES FOR INFORMATIONAL USE ONLY

HYDRAULICS* Q25: 0.96' FB @ 412 CFS Q50: 0.77' FB @ 483 CFS Q100: 0.59' FB @ 557 CFS

*HYDRAULICS BASED ON ENTIRE TRAIL CREEK FLOWS. STREAMSTATS, NO ADJUSTMENTS DUE TO FIRE EFFECTS MADE. **FB = FREEBOARD

SITE NOTES:

- GEOTECHNICAL AND SOIL INVESTIGATIONS HAVE NOT BEEN COMPLETED AT THE SITE.
- QUANTITIES PROVIDED FOR INFORMATION ONLY AND ARE IN-PLACE QUANTITIES, NO SHRINKAGE OR SWELL FACTORS HAVE BEEN APPLIED. CONTRACTOR SHALL VERIFY QUANTITIES.
- STAGING AREAS TO BE DISCUSSED AT SITE-WALK THROUGH WITH
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHMENT OF DETOUR ROAD, PROVIDING DRAINAGE UNDER DETOUR ROAD, AND RECLAIMING DISTURBED AREAS AFTER CONSTRUCTION. THIS WORK IS INCIDENTAL TO THE MOBILIZATION BID ITEM.
- ROADWAY EXCAVATION IS PAID UNDER THE HYDRAULIC EXCAVATOR RENTAL BID ITEM.
- STRUCTURE EXCAVATION QUANTITY SHOWN IS FOR INFORMATION ONLY BASED ON THE LIMITS SHOWN. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES BASED ON THEIR OWN EXCAVATION PLAN. LIMITS SHOWN ARE MINIMUM EXCAVATION REQUIREMENTS BASED ON SOIL TYPE AND OSHA EXCAVATION REQUIREMENTS. ACTUAL SITE CONDITIONS MAY VARY. STRUCTURE EXCAVATION IS PAID UNDER THE HYDRAULIC EXCAVATOR RENTAL BID ITEM.
- APPROXIMATELY 80% OF STRUCTURE EXCAVATION MATERIAL IS ANTICIPATED TO BE SUITABLE FOR USE AS ROADWAY EMBANKMENT MATERIAL. SOME MIXING, SORTING AND DRYING MAY BE REQUIRED PRIOR TO USE AS EMBANKMENT MATERIAL.
- CONTRACTOR TO COORDINATE DETOUR ROUTE WITH POWER UTILITY BARRICADES MEETING MUTCD STANDARDS SHALL BE INSTALLED
 AROUND POLE FOR PROTECTION OF TRAVELING PUBLIC DURING DETOUR ROUTE USE. (PAID UNDER MOBILIZATION BID ITEM).

021-2021





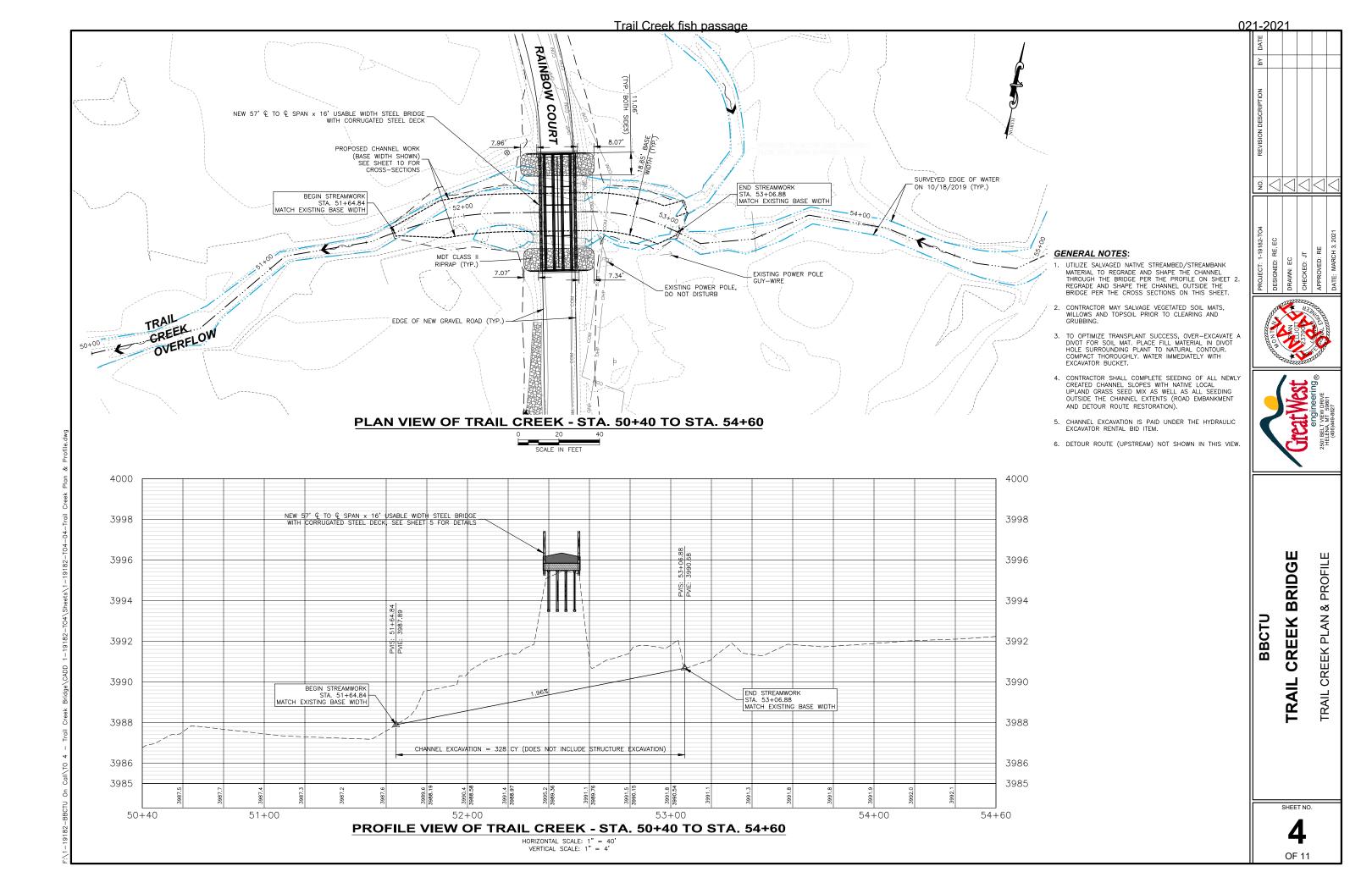
BRIDG COURT PLAN & CREEK

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PROFILE

RAINBOW

SHEET NO. 3 OF 11



021-2021





ABUTMENT ELEVATION

BRIDG REEK $\mathbf{\Omega}$ $\mathbf{\omega}$ $\overline{\mathbf{o}}$ RAIL

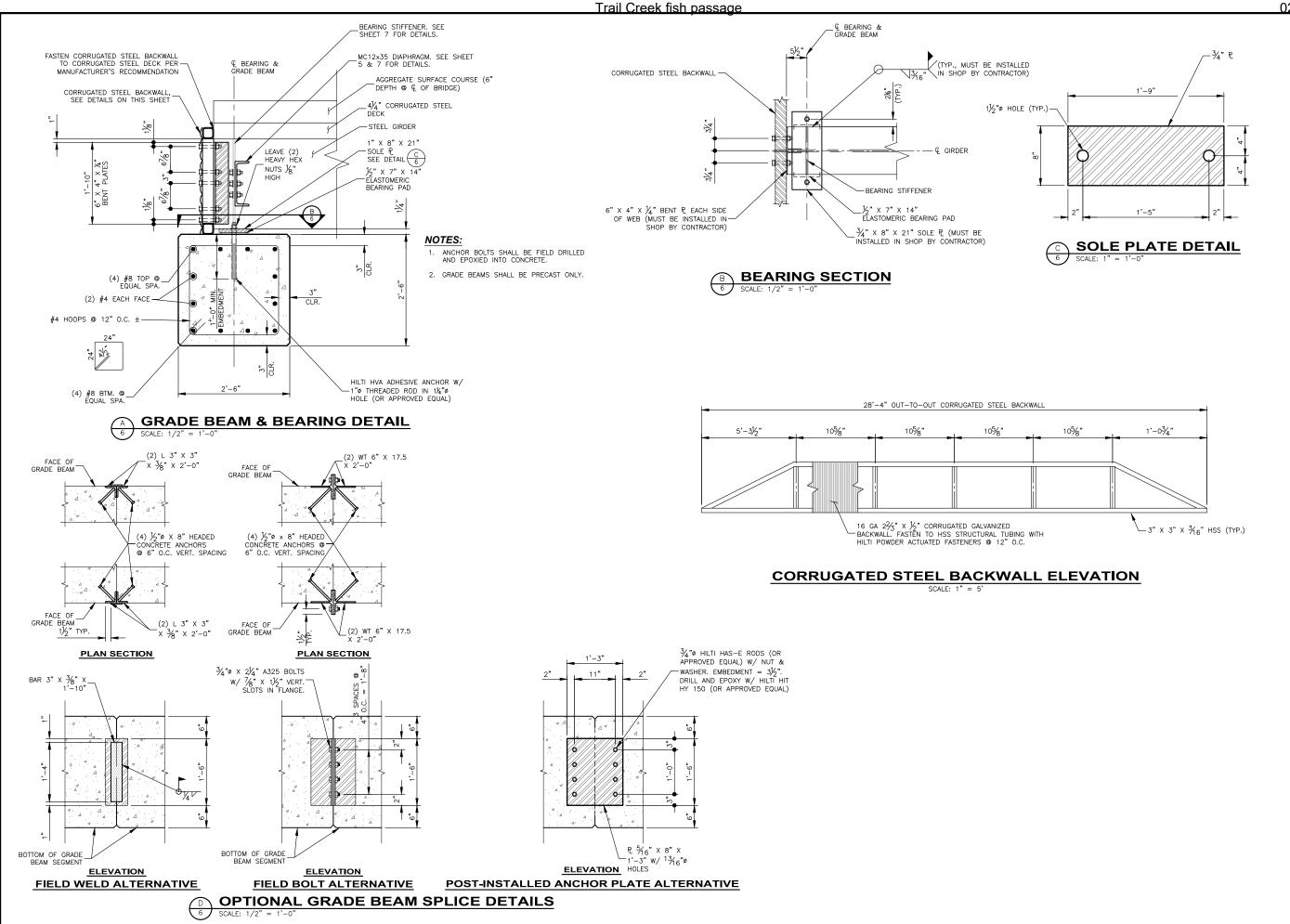
∞ಶ

PLAN

RIDGE

 $\overline{\mathbf{m}}$

SHEET NO.



021-2021



BEARING AND BACKWALL DETAILS CREEK BRIDGE **TRAIL**

BBCTU

SHEET NO. 6

FRAMING PLAN SCALE: 1/8" = 1'-0'

57'-11" OUT-TO-OUT GIRDER

#1 BEARING

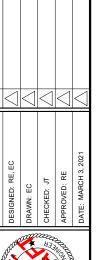
57'-11" OUT-TO-OUT GIRDER 5½" 15'-11" - INTERMEDIATE STIFFENER (TYP.) EXISTING BEARING STIFFENER EXISTING BEARING STIFFENER EXISTING BUTT WELD IN GIRDERS

> **GIRDER ELEVATION** SCALE: 1/8" = 1'-0'

NOTES:

#2 BEARING

- 1. BIG BLACKFOOT CHAPTER TROUT UNLIMITED (BBCTU) TO PROVIDE FOUR (4) SALVAGED W24X117 SIEL GIRDERS. MEASUREMENTS SHOWN ON THIS SHEET ARE BASED ON MEASUREMENT OF ONE (1) GIRDER. VARIANCES IN ACTUAL GIRDER DIMENSIONS MAY EXIST. CONTRACTOR IS RESPONSIBLE FOR TRANSPORTATION OF GIRDERS FROM UPSATA LAKE TO A SHOP ENVIRONMENT, ALL WORK REQUIRED TO MODIFY GIRDERS TO THE SPECIFIED DIMENSIONS, AND TRANSPORTATION OF GIRDERS TO THE STIE.
- 2. SEE SHEETS 5 & 6 FOR DIAPHRAGM AND BEARING DETAILS. DIAPHRAGMS SHALL BE PROVIDED BY THE CONTRACTOR.
- 3. NEW MC 12X35 DIAPHRAGMS (OR ALTERNATE BENT PLATE) SHALL BE INSTALLED BY THE CONTRACTOR AS SHOWN IN THE FRAMING PLAN ON THIS SHEET.
- 4. EXISTING SOLE PLATES SHALL BE REMOVED AND REPLACED WITH NEW SOLE PLATES PROVIDED BY THE CONTRACTOR. SEE SHEET 6 FOR DETAILS. CONTRACTOR TO PROVIDE AND INSTALL 7" X 14" X 1/2" ELASTOMERIC BEARING PAD BETWEEN THE SOLE PLATE AND GRADE BEAM.
- 5. EXISTING BEARING STIFFENERS SHALL BE LEFT IN-PLACE AND USED FOR INSTALLATION OF NEW END DIAPHRAGMS AND INTERMEDIATE DIAPHRAGM.
- CONSTRUCTION CONTRACTOR SHALL AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THE GIRDERS DURING TRANSPORTATION AND THE INSTALLATION OF DIAPHRAGMS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE GIRDERS DURING FABRICATION.
- 7. WELDING, WELDER QUALIFICATIONS, PRE—QUALIFICATION OF WELD DETAILS, AND INSPECTION OF WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI/AASHTO/AWS BRIDGE WELDING CODE D1.5. NO FIELD WELDING WILL BE ALLOWED UNLESS NOTED OTHERWISE. ALL ELECTRODES SHALL BE
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ERECTION.
- 9. REFER TO SHEET 9 FOR PHOTOS OF EXISTING STEEL GIRDERS TO BE PROVIDED BY BBCTU.



021-2021

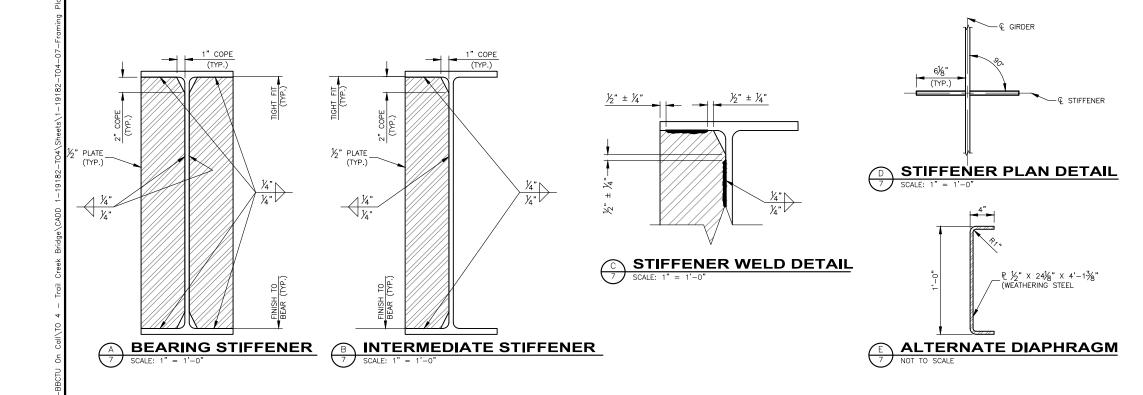


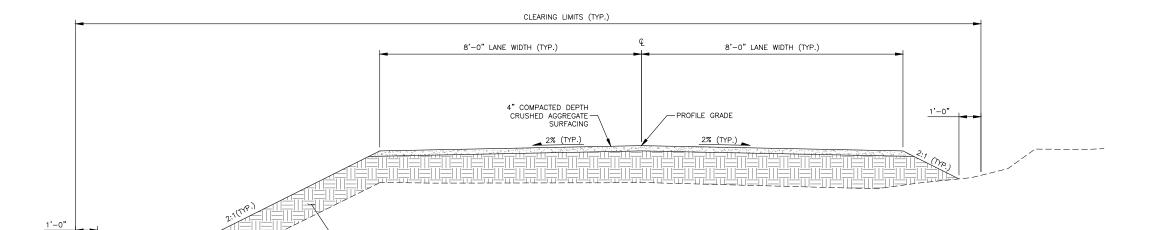


BRIDG BBCTU

GIRDER FRAMING PLAN CREEK **TRAIL**

SHEET NO. OF 11





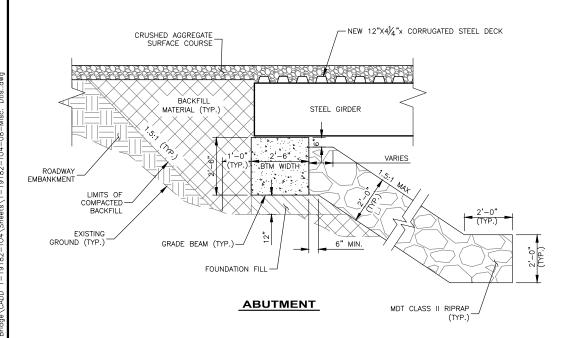
TYPICAL GRAVEL ROADWAY SECTION

NOT TO SCALE

NOTE

EMBANKMENT — CONSTRUCTION (TYP.)

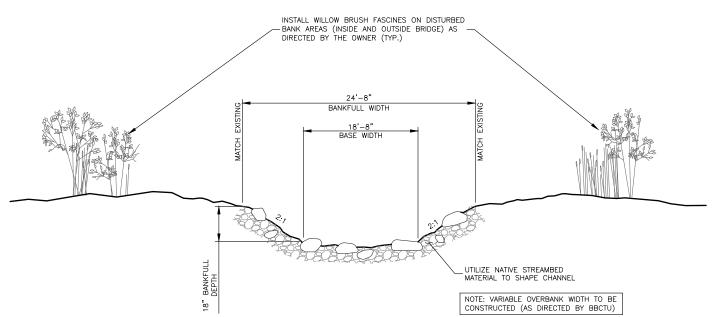
DETAIL SHOWS CUT FILL CONDITIONS FOR ROADWAY CONSTRUCTION, NO DITCH CONSTRUCTION IS ANTICIPATED. LANE WIDTH WILL TAPER TO EXISTING AT PROJECT EXTENTS.



A RIPRAP, BACKFILL & GRADE BEAM SECTION

8 NOT TO SCALE

NOTE: CORRUGATED STEEL BACKWALL AND BEARING ASSEMBLY NOT SHOWN FOR CLARITY. SEE SHEET 6 FOR DETAILS



TYPICAL CHANNEL SECTION

NOT TO SCALE

DESIGNED: RE, EC

DRAWN: EC

CHECKED: JT

APPROVED: RE

DDATE: MARCH 3, 2021





TRAIL CREEK BRIDGE
MISCELLANEOUS DETAILS

BBCTU

SHEET NO.



PHOTO OF EXISTING END DIAPHRAGMS



PHOTO OF OWNER FURNISHED W24x117 GIRDER ENDS



PHOTO OF EXISTING DIAPHRAGM WELDS



PHOTO OF EXISTING END STIFFENERS



PHOTO OF EXISTING GIRDER SPLICE WELD



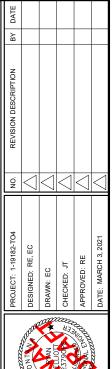
PHOTO OF EXISTING INTERMEDIATE STIFFENER WELD



PHOTO OF EXISTING BEARING SOLE PLATE



PHOTO OF EXISTING INTERMEDIATE STIFFENERS AND DIAPHRAGMS





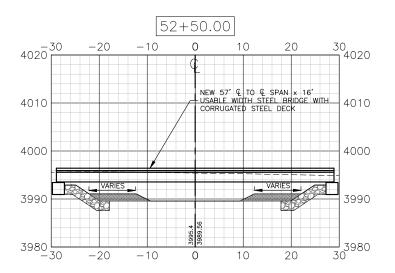


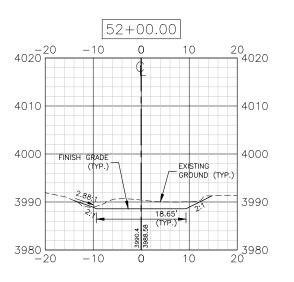
CREEK BRIDGE **BBCTU TRAIL**

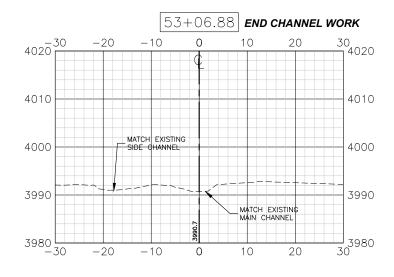
EXISTING GIRDER PHOTOS

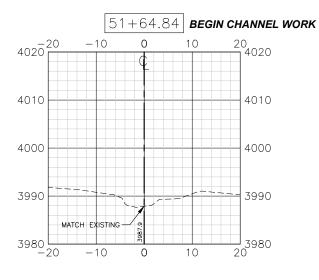
SHEET NO.

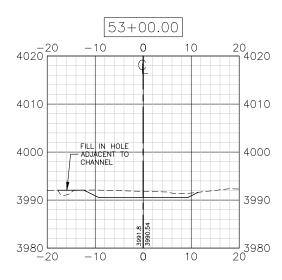
Trail Creek fish passage 021-2021



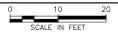








TRAIL CREEK CROSS-SECTIONS



NOTE: VARIABLE OVERBANK WIDTH TO BE CONSTRUCTED (AS DIRECTED BY BBCTU)

DESIGNED: 1-19182-104 NO. REVISION DESCRIPTION BY DATE

DESIGNED: RE. EC

DRAWN: EC

CHECKED: JT

APPROVED: RE

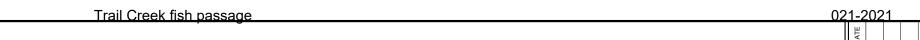
DATE: MARCH 3, 2021

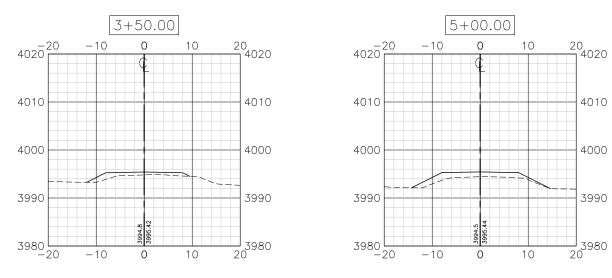


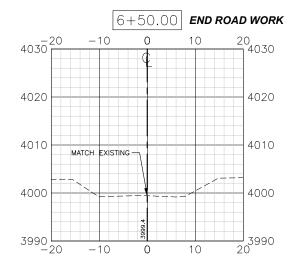


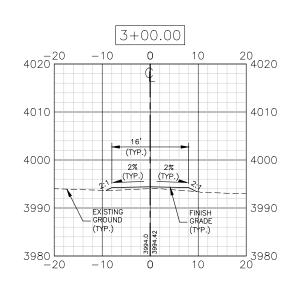
TRAIL CREEK BRIDGE

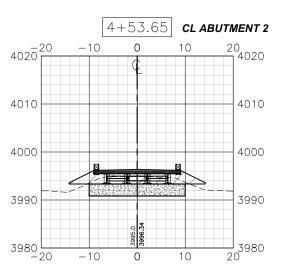
TRAIL CREEK CROSS-SECTIONS

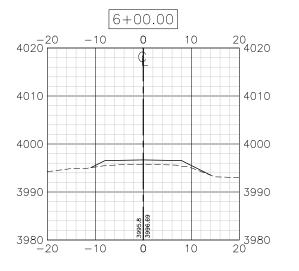


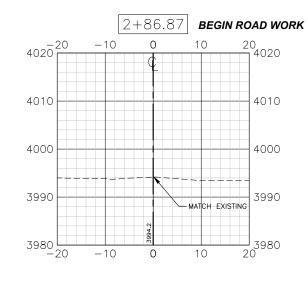


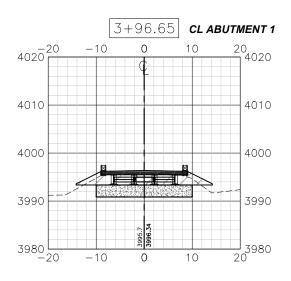


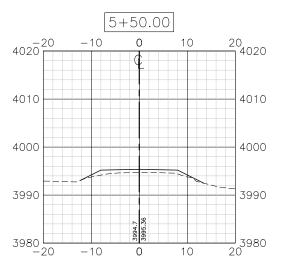




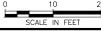








RAINBOW COURT CROSS-SECTIONS



TRAIL CREEK BRIDGE

RAINBOW COURT CROSS-SECTIONS

GORGINA GOORD COURT CROSS-SECTIONS

GORGINA GOORD COURT CROSS-SECTIONS

GORGINA GOORD COURT CROSS-SECTIONS

SHEET NO.

1 1

OF 11