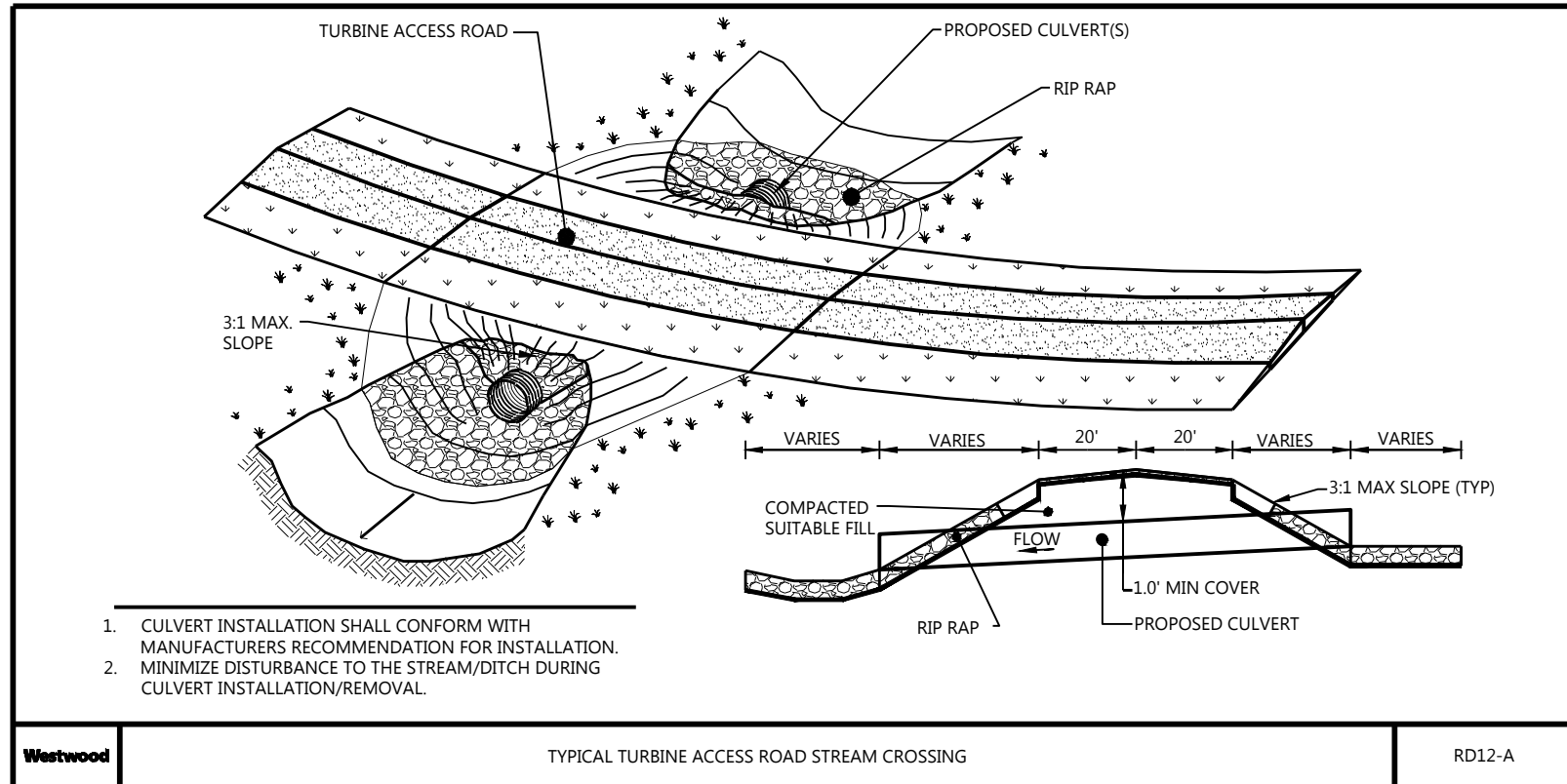


DOCKETED

Docket Number:	23-OPT-01
Project Title:	Fountain Wind Project
TN #:	248329-5
Document Title:	LSAA Crossing Designs
Description:	N/A
Filer:	Caitlin Barns
Organization:	Stantec Consulting Services, Inc.
Submitter Role:	Applicant Consultant
Submission Date:	1/5/2023 9:49:25 AM
Docketed Date:	1/5/2023

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NOT TO SCALE

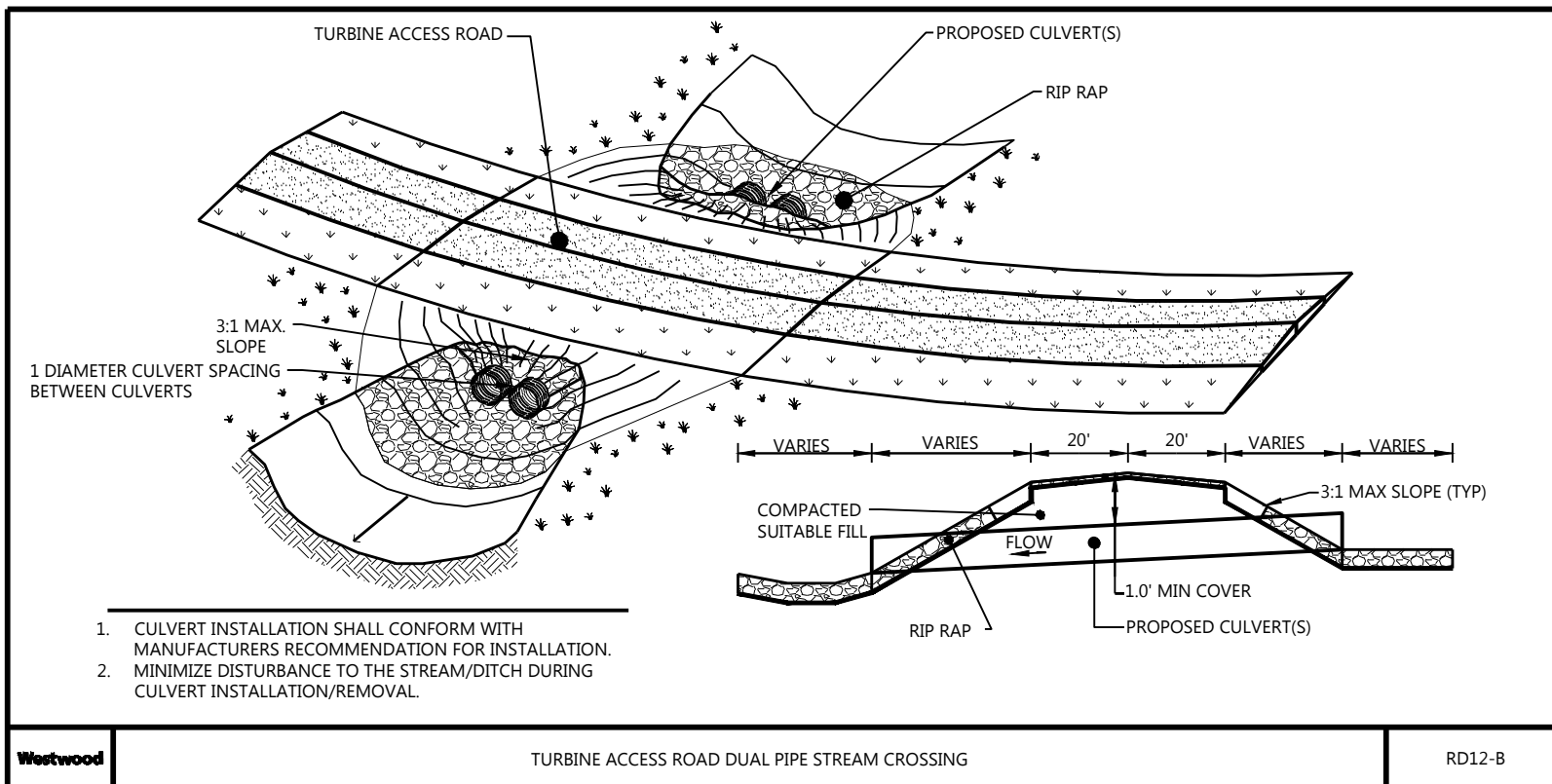
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Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

Fountain Wind Project
Shasta County, California

**Culvert Crossing
Detail**

DATE: 09/10/2020



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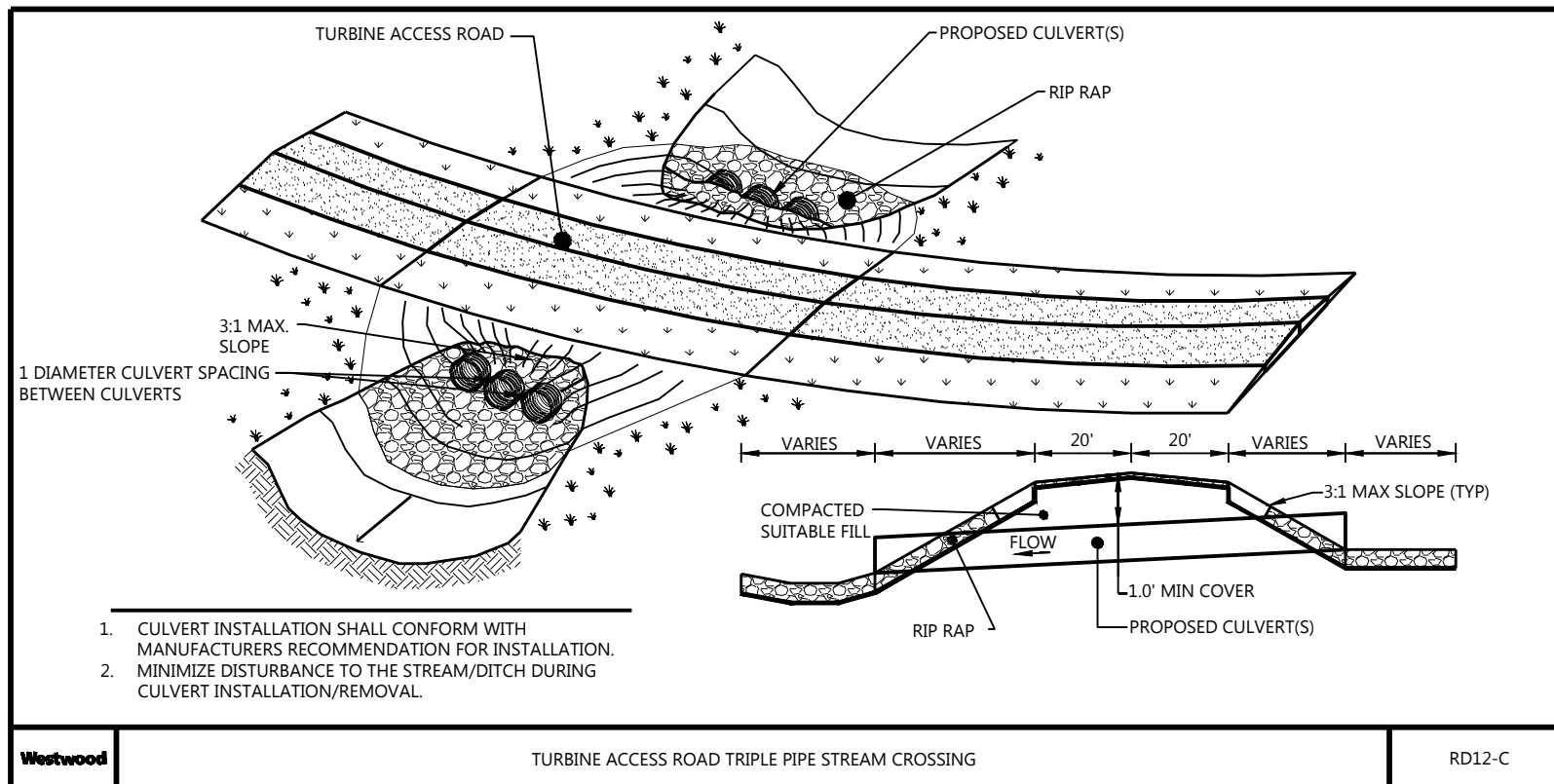
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**Double Culvert
 Crossing Detail**

DATE: 09/10/2020

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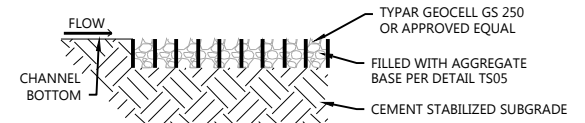
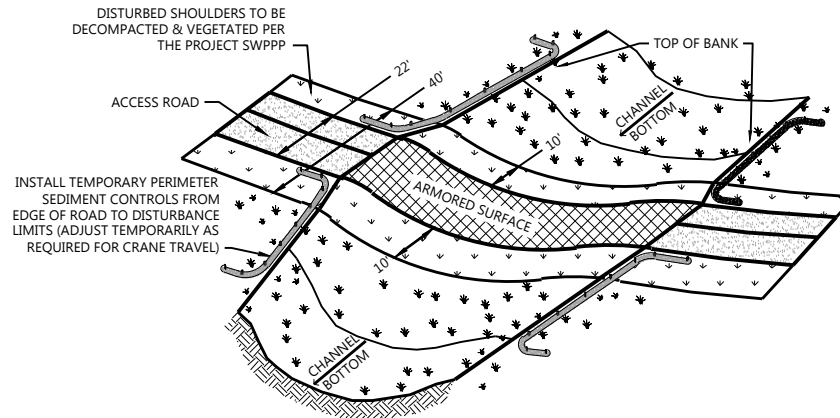
Fountain Wind Project
 Shasta County, California

**Triple Culvert
 Crossing Detail**

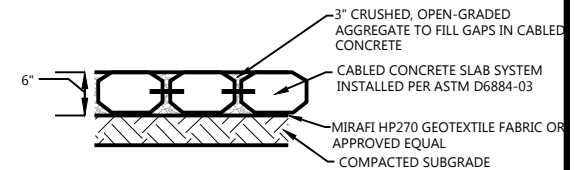
DATE: 09/10/2020

NOTES:

1. CHANNEL SIDE SLOPES MAY REQUIRE MODIFICATION TO CONSTRUCT THE ACCESS ROAD THROUGH THE CHANNEL TO MEET TURBINE COMPONENT DELIVERY REQUIREMENTS.
2. THE ACCESS ROAD SHALL CROSS THE CHANNEL AS CLOSE TO 90-DEGREES AS POSSIBLE.
3. ENSURE APPROPRIATE SUBGRADE ELEVATION SO THAT THE FINISHED ACCESS ROAD SURFACE ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONDING UPSTREAM OF ROAD OR ON THE ROAD SURFACE.
4. ARMORED SURFACE TREATMENT OF THE ROAD SURFACE SHALL EXTEND THROUGH THE CHANNEL BOTTOM AND UP THE CHANNEL SIDE SLOPES TO THE OBSERVED TOP OF BANK OF THE CHANNEL, UNLESS OTHERWISE NOTED.
5. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBERLOGS (BIOROLLS), WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS.
6. TYPE OF SURFACING WILL BE BASED ON MODELED FLOW VELOCITY TO PROTECT ROAD SURFACE FROM WASHOUT



STANDARD DUTY ARMORED SURFACE



HEAVY DUTY ARMORED SURFACE

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ACCESS ROAD LOW WATER CROSSING

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Shasta County, California

**Low Water Crossing
Detail**

DATE: 09/10/2020