HELENE BLOCK GRANT ROAD REPAIR PROGRAM

Engineering Decision Sheet — Stream Crossing

HBG-ENG-002 • CPS 578 • Engineering criteria only — soils evaluation excluded • One form per crossing

Date: _____
Project ID: _____
Crossing #: _____
Evaluator: _____

A. SITE INFORMATION

Landowner / Applicant		**County**	Trout County: ☐ Yes ☐ No
Road Name or ID		**Parcel / PIN**	
GPS Location of Crossing		**Stream Classification**	
Crossing Type	☐ Culvert ☐ Ford		
Repair Status	☐ Complete ☐ Incomplete / Partially Complete		
Mapped Floodplain?	☐ Yes — floodplain development permit / no-rise cert may be required ☐ No		
Approx. Date of Repair			

⚠ SOILS REVIEW TRIGGER (HBG-SOIL-001) — Check all that apply. If ANY box is checked, request soils review.

- ☐ Active rutting or erosion on crossing approach
- ☐ Ponding or saturated soils at crossing surface or approach
- ☐ Visible slope instability at approaches (slumping, cracking, toe bulging, alligator cracking)
- ☐ Crossing surface without geotextile where subgrade is soft or unstable
- ☐ Visible scour, piping, or undermining at culvert inlet or outlet

SOILS REVIEW REQUIRED? ☐ Yes ☐ No

B. TRACK 1 — CPS 578 COMPLIANCE (Check all that apply)

Evaluate Track 1 first on every project.

GENERAL — ALL CROSSING TYPES

☐	**Location is in an area with a stable streambed away from abrupt channel grade or alignment changes, large tributaries, and 300’ from known spawning areas of listed species**
☐	**Travel-way width adequate for the intended use**
☐	**All side slope cuts and fills in soil ≤ 2H:1V; rock cuts/fills ≤ 1.5H:1V**
☐	**Approaches blend with existing topography — ascent/descent grades ≤ 4H:1V**
☐	**Approaches constructed with suitable material to withstand repeated use**
☐	**Surface runoff diverted around approaches to prevent erosion**

☐	**Livestock access excluded using fence and gates, as needed**
☐	**All disturbed areas vegetated**
☐	**Crossing does not create an aquatic organism passage barrier**

CULVERT CROSSINGS — Complete if crossing type is culvert

☐	**HBG_ENG_002_FS_CPS578 has been completed in the field**
☐	**Culvert embedded minimum 6" below existing stream bottom (at least one pipe for multi-pipe crossings)**
☐	**Culvert slope matches stream slope and slope does not exceed 6%**
☐	**Culvert will safely pass design storm**
☐	**Stable overflow / emergency bypass provided to safely pass flows exceeding culvert capacity**

FORD CROSSINGS — Complete if crossing type is ford

☐	**Watercourse is wide and shallow with firm streambed**
☐	**Ford is not immediately downstream from a culvert or pipe**
☐	**Ford crossing surface is flush with or below streambed (top surface ≤ 0.5 ft above original streambed)**
☐	**Cross-sectional area of crossing ≥ natural channel cross-sectional area**
☐	**Crossing slopes toward center of stream to provide thalweg (low flow) channel**
☐	**Cross-stream fencing installed at ford to exclude livestock and allow passage of floodwater and large woody material during high flows**

▶	**ALL APPLICABLE BOXES CHECKED → TRACK 1 ELIGIBLE (90% cost share). Skip Section C. Proceed to sign-off.**
▶	**ANY BOX UNCHECKED → PROCEED TO TRACK 2 (Section C). Document which items were not met.**

C. TRACK 2 — STABILITY DETERMINATION (70% Cost Share) | Complete only if any Track 1 item was unchecked.

Track 1 items NOT met (list):	

A stream crossing is considered stable and safe when it is passable under normal flow conditions and does not exhibit active structural or hydraulic failure, even if it does not fully meet CPS 578 design criteria. ALL conditions below must be observed. Document justification in the narrative.

☐	**No observable structural failure of the crossing or its fill material**
☐	**No observable erosion in fill material or scour at inlet/outlet delivering sediment to stream**
☐	**Crossing is not creating an upstream impoundment**

▶	**ALL BOXES CHECKED → TRACK 2 ELIGIBLE (70% cost share). Complete stability narrative below and proceed to sign-off.**
▶	**ANY BOX UNCHECKED → NOT ELIGIBLE. Document reason below and proceed to sign-off.**

Track 2 Stability Rationale (required — reference field observations and basis for stability finding; attach additional pages as needed):

D. EVALUATOR SIGN-OFF & ELIGIBILITY DETERMINATION

Evaluator Name		**Title / Credentials**	
Agency / Organization		**Date of Field Evaluation**	

☐ **TRACK 1 ELIGIBLE Full funding — CPS 578 criteria met**	☐ **TRACK 2 ELIGIBLE Partial funding — stable per determination**	☐ **NOT ELIGIBLE Does not meet CPS 578 or stability criteria**

Signature of Evaluator:	
Date Signed:	

E. LANDOWNER/APPLICANT SIGN-OFF & ELIGIBILITY DETERMINATION

If it was determined that the Project does Not meet Track 1 - 90% Cost-Share
And Does Meet Track 2 - 70% Cost Share or Is Not Eligible

Does Landowner/Applicant want to go through design and re-install to bring project to 90%?

☐ Yes ☐ No ☐ Needs Additional Time to Evaluate Options

Signature of Landowner/Applicant:	
Date Signed:	

Additional Notes and Potential Constraints: