



WASHINGTON STATE DEPARTMENT OF
Natural Resources

Forest Practices Application/Notification
Office Checklist Page 1
Northwest Region

FPA/N #: 2815004
 Received Date: 2-8-16
 WDFW Concurrence Due Date: _____
 WDFW Concurrence Review Completed: _____
 Comments Due Date: 2-22-16
 Decision Due Date: 3-9-16
 FP Forester: SKY30
 Shutdown Zone: 1658
 RMAP #: R2800009L

FPA/N CLASSIFICATION: [] II [X] III [] IVG [] IVS RMAP Exempt: [] 80/20 [] No Forest Roads [] Ag [] LLO
 Landowner Name: Weyco Project Name: Where Eagles Dare - Low Spur
 WRIA: Snohomish WAU: SKYKOMISH RIVER
 WRIA: _____ WAU: _____
 Legal Description: ptns. 8, 17-27-9E
 Activity Type: Harvest _____ ac Spray _____ ac Stream Crossing(s) 10
 Road Construction 3860 ft Road Abandonment _____ ft Rock Pit _____ ac

ALTERNATIVE PRESCRIPTIONS

- Alternate Plan
- Ten-Year Forest Management Plan
- Columbia River Gorge National Scenic Area
- Watershed Analysis: _____
- Habitat Conservation Plan
- Landowner Option Plan for Northern Spotted Owl
- Cooperative Habitat Enhancement Agreement

RESOURCE REVIEW

- Unstable Slopes (Risk: Highway, Water, _____)
- Soils Map (Highly Erodible & Very Unstable)
- SLPSTAB
- Landslide Hazard Zonation
- Landslide Polygon
- Rain-on-Snow and Outside Approved WA
- Hydric Soils
- Wetland [] Forested, [] A, [] B
- In WMZ of [] A, or [] B Wetland
- In RMZ/ELZ of Type [] S, [] F, [] N water
- Water Verification
- Bull Trout Overlay
- HCP Bull Trout Population
- Bald Eagle nest or roost within 660 feet
- Group A or B Water Supply (TRAX code DM or MU)
- Hatchery (TRAX code S)(Name: _____)
- Even-Aged Harvest greater than 120 Acres
- Ground-based Equipment on Slopes greater than 40%
- Road Construction on Slopes greater than 65%
- Saltwater Islands (Name: _____)

ASSOCIATED NON-SCANNED DOCUMENTS - On file with the FPA/N at the region office.

- SEPA Checklist/Documents
- Large Landowner Road Maintenance and Abandonment Plan

ASSOCIATED SCANNED DOCUMENTS

- Conversion Option Harvest Plan
- FPHP Plans & Specifications
- Qualified Expert Report
- Natural Regeneration Plan
- Shoreline Permit
- Marbled Murrelet Form
- FPBM Appendix(s) _____
- Small Landowner RMAP Checklist
- CMZ Assessment Form
- Hardwood Conversion Form
- Wetland Mitigation Plan
- Water Protocol Surveys [] Modification Form# _____
- Water Classification Worksheet
- Shade Documentation (Stream Shade Assessment Worksheet)
- Watershed Analysis Worksheet
- DFC Printout
- Slope Stability Informational Form

EARR Tax Credit [] Yes [X] No

Form completed by MA

ADDITIONAL COMMENTS:



WASHINGTON STATE DEPARTMENT OF
Natural Resources

For DNR Region Office Use Only	
FPA/N #:	2815004
Region:	NW
Received Date:	2-8-16

**Forest Practices Application/Notification
Western Washington**

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION. TYPE OR PRINT IN INK.

1. Landowner, Timber Owner and Operator

Legal Name of LANDOWNER	Legal Name of TIMBER OWNER (if different than Landowner)	Legal Name of OPERATOR (if different than Landowner)
Weyerhaeuser Columbia Timberlands	Weyerhaeuser NR	Weyerhaeuser NR
Mailing Address: 500 Metcalf Street, Building F-5E	Mailing Address: 500 Metcalf Street, Building F-5E	Mailing Address: 500 Metcalf Street, Building F-5E
City, State, Zip Sedro Woolley, WA 98284	City, State, Zip Sedro Woolley, WA 98284	City, State, Zip Sedro Woolley, WA 98284
Phone (360) 424-2014 Email: wes.worden@weyerhaeuser.com	Phone (360) 424-2014 Email: wes.worden@weyerhaeuser.com	Phone (360) 424-2014 Email: wes.worden@weyerhaeuser.com

2. Contact Person

Contact Person: Wes Worden	Phone (509) 387-0321 Email: wes.worden@weyerhaeuser.com
-------------------------------	--

NOTE: You are required to verify Type Np, and Ns water types within 200 feet of your proposed forest practices activities prior to submitting a Forest Practices Application / Notification. Use the Additional Information section, additional pages, the Water Type Classification Worksheet, and/or a Water Type Modification form to explain how you verified water types. See Water Typing Requirements in the instructions.

RECEIVED

3. Landownership information: See instructions

a. No Yes Are you a small forest landowner per RCW 76.09.450?
If Yes, go to b.

FEB 08 2016

b. No Yes Is your entire proposed harvest area on a single contiguous ownership consisting of one or more parcel

NW REGION

4. If you are harvesting timber, enter the Forest Tax Reporting Account Number of the Timber Owner:

800070834

For tax reporting information or to receive a tax number, call the Department of Revenue at 1-800-548-8829.

5. Are you substituting prescriptions from an approved state or federal conservation agreement or watershed analysis?

No Yes Write "HCP" or "Using Prescriptions" in tables that apply. Attach or reference on file prescriptions and/or crosswalks.

6. What is the legal description of your forest practice?

Section	Township	Range	E/W	Tax Parcel Number	County
8, 17	27	9	E		Snohomish

7. When are you planning to begin work on the proposed activity? : February 2016

8. Is the taxpayer eligible for the EARR Tax Credit?

No Yes

9. Have you reviewed this forest practices activity area to determine whether it may involve historic sites and/or Native American cultural resources? Read the instructions before answering this question.

No Yes

10. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?

a. No Yes List the RMAP number: R2800009L

If no, go to b.

b. No Yes Is a Checklist RMAP required? (see instructions)

11. Are there potentially unstable slopes or landforms within the boundaries of your forest practices activity area?

No Yes – attach geotechnical report and "Slope Stability Informational Form." If applicable, attach the SEPA checklist, HCP or Watershed Analysis prescriptions.

12. Are there potentially unstable slopes or landforms adjacent to your forest practices activity area?

No Yes – complete and attach the "Slope Stability Informational Form." If applicable, attach geotechnical report, HCP or Watershed Analysis prescriptions.

13. Is this forest practice application/notification: (Answer every question)

a. No Yes Within city limits or inside an urban growth area?

(IF YES SEE INSTRUCTIONS FOR ADDITIONAL REQUIRED DOCUMENTS.)

b. No Yes For road work that is included in an approved Road Maintenance and Abandonment Plan (RMAP)?

c. No Yes Within a public park? If Yes, include SEPA Environmental Checklist or SEPA Determination - except for harvesting/salvaging less than 5,000 board feet within a developed public park.

d. No Yes Within 500 feet of a public park? Park name: _____

e. No Yes In an approved Conversion Option Harvest Plan (COHP) from the local government? If yes, include a copy. This only applies to proposals within urban growth areas.

f. No Yes Within 200' of the Ordinary High Water Mark (OHWM) or floodway of Type S water? If yes, check with the county or city to determine whether a substantial development permit is required under the local shorelines master plan.

- g. No Yes A request for a multi-year permit? If yes, length requested: 4 years or 5 years. Not everyone qualifies for a multi-year permit. See instructions for details.
- h. No Yes An Alternate Plan? If yes, include a copy.
- i. No Yes Within 50 miles of saltwater and do you own more than 500 acres of forest land in Washington State? If Yes - include the "Marbled Murrelet Form" or attach/reference HCP prescriptions.
- j. No Yes In or directly adjacent to a potential Channel Migration Zone (CMZ)? If Yes – include the "CMZ Assessment Form." Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

***** **If not working in or over typed waters, skip to number 18** *****

Prior to answering number 14-17 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 5 (BM 5).

14. Are you proposing any of the following projects NOT permitted by current HPAs from WDFW?

- a. No Yes Installing, replacing or repairing a culvert at or below the bankfull width of Type S or F Water(s) that exceeds a five percent gradient?
- b. No Yes Constructing, replacing, or repairing a bridge at or below the bankfull width of unconfined streams in Type S or F water(s)?
- c. No Yes Placing fill material within the 100-year flood level of unconfined streams in Type S or F water(s)?

15. Have you consulted with DNR and/or WDFW about the proposed hydraulic project(s) in or over Type S or F water? No Yes

16. If installing, replacing, removing or maintaining structures in or over any typed water, complete the table below. Type S and F waters require detailed plan information. Provide plan details in number 31 or attach plan to the FPA/N. Provide crossing locations and identifiers on your Activity Map. (A detailed plan with profiles may also be required for more complex hydraulic projects in Type N Waters per WAC 222-24-042(2)).

Crossing Identifier (letter and/or number)	Water Type (S, F, Np, Ns)	*Existing HPA Number (if applicable)	HPA Expiration Date (if applicable)	Planned Activity (install, replace, remove, temporary, structure maintenance)	Structure (culvert, bridge, ford**, punchoon, arch, other)	Proposed Size (dimensions of structure)	Culvert Design Method (No-slope, Stream-sim, Hydraulic, Other) (F and S only)	Channel Bed Width (ft) (F and S only)	Stream Gradient (%) (F and S only)	RMAP Project (Y or N)	FFFPP Project (Y or N)
A,J	Np			install	culvert	48" x 30'				N	N
L	Np			install	culvert	36" x 30'				N	N
B,EG,K	Np			install	culvert	30" x 30'				N	N
C,D	Np			install	culvert	24" x 30'				N	N
H, I	Np			install	culvert	24" x 30'				N	N

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

** Fords and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain endangered or threatened fish species. For more information, see "Background for the state's Incidental Take Permits for certain endangered and threatened fish species" following number 24 of the FPA/N Instructions.

17. If conducting any of the following activities in or over typed water, complete the table below. Some activities will require identifiers on your Activity map and/or more information in number 31, Additional Information. See instructions.

*Activity	Type S Water	Type F Water	Type Np Water	Type Ns Water
Equipment Crossing**				
Suspending Cables				
Cable Yarding				
LWD Placement/Removal				
Beaver Dam Removal				
Felling and Bucking				
Other (describe in number 31)				

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

** Fords and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain endangered or threatened fish species. For more information, see "Background for the state's Incidental Take Permits for certain endangered and threatened fish species" following number 24 of the FPA/N Instructions.

18. If constructing or abandoning forest roads complete the table below. Show the road locations and identifiers on your Activity Map. Include abandonment plans for temporary roads and abandonment projects.

Road Identifier (name, number)	Road Construction		Road Abandonment	
	Length (feet)	Steepest Side-slope (%)	Length (feet)	Abandonment Date
Low Road	3860	50		

19. If depositing spoils and/or expanding or developing a rock pit for forestry use, complete the table below. Show locations and identifiers on your Activity Map.

Spoil Area Identifier (letter, number)	Amount of Spoils Deposited (cubic yards)	Rock Pit Identifier (name, number or letter)	Acres of New Rock Pit Developed	Acres of Existing Rock Pit Expanded

20. If operating in or within 200 feet of a wetland, complete the table below. Show the boundaries of each wetland, along with its identifier, and WMZ on your Activity Map. See instructions for information.

Wetland Identifier (number, letter)	Wetland Type (A, B, or Forested)	Planned Activities in Wetland	Planned Activities in Maximum Width WMZ	Total Wetland Area (acres)	How many acres are you draining?	How many acres are you filling?

***** **If not harvesting or salvaging timber, skip to number 29** *****

29. How are the following marked on the ground? (Flagging, paint, road, fence, etc.)

Harvest Boundaries: Not applicable--reconstruction of old road within 20 year old plantation.
 Clumped Wildlife Reserve Trees/Green Recruitment Trees: Not applicable
 Right-of-way limits/road centerlines: existing grade
 Stream Crossing Work: Yellow flagged GPS points--see included work list
 Riparian Management Zone Boundaries and Leave/Take Trees: Not applicable
 Channel Migration Zone: not applicable
 Wetland Management Zone Boundaries and Leave/Take Trees: not applicable

30. Are you converting the land to non-forestry use within 3 years of harvest?

No Yes If yes, include your SEPA Determination and/or SEPA checklist.

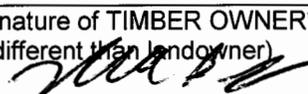
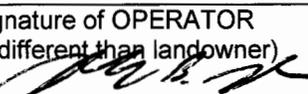
31. Additional Information (attach additional pages if necessary):

For hydraulic projects in or over S or F water(s) see instructions for required plan information.

Where Eagles Dare-Low Spur, HUN 114880
 This application is for the reconstruction of an existing grade.
 Streams surveys in the past deemed these stream reaches as non-fish. Please reference survey # NW07120018. The perennial or seasonal nature will be determined by visiting the streams in the summer. For the purposes of this application all streams are listed as Np and will have at minimum 24" culverts installed at their respective crossings.

32. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
 - The Forest Practices Act and Rules AND
 - All other federal, state or local regulations.
- Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws.
- If we said that we would not convert the land to non-forestry use, the county or city may deny development permits on this parcel for the next 6 years.
- The following may result in an unauthorized incidental take of certain endangered or threatened fish species:
 - Conversion of land to non-forestry use.
 - Harvesting within the maximum RMZ on a 20-acre exempt parcel that was acquired after June 5, 2006.
 - Equipment Crossings/Fords in or over Type S and F Waters.

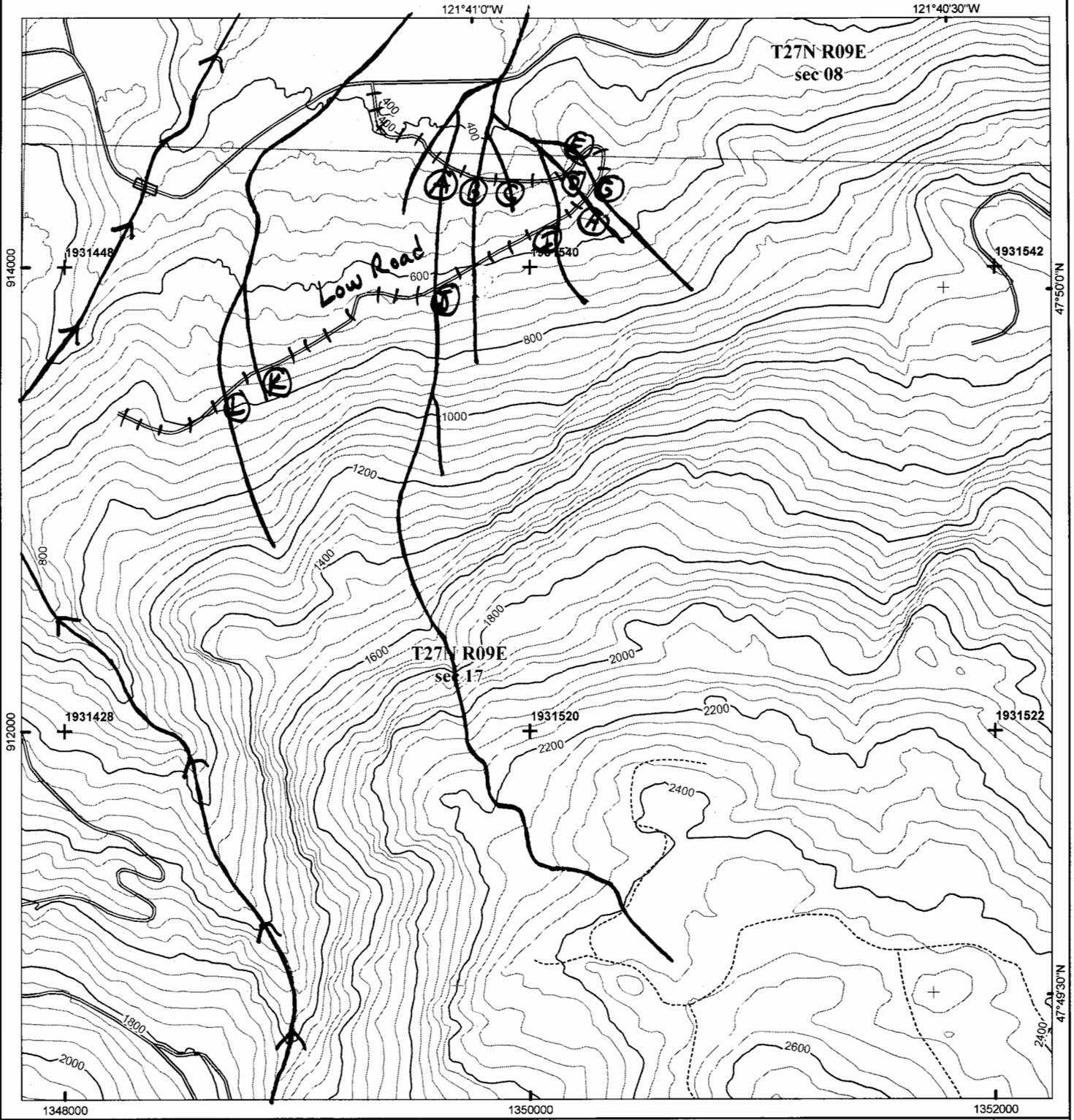
Signature of LANDOWNER  Print Name: Wes Worden Date: 02/01/2016	Signature of TIMBER OWNER* (If different than landowner)  Print Name: Wes Worden Date: 02/01/2016	Signature of OPERATOR (If different than landowner)  Print Name: Wes Worden Date: 02/01/2016
---	--	---

* NOTE: If you are a "Perpetual Timber Rights Owner," and are submitting this without the Landowner's Signature, provide written evidence the landowner has been notified.

Please make a copy of this FPA/N for your records. If this FPA/N contains a hydraulic project requiring WDFW concurrence review, it will not be available online for public review until after the WDFW concurrence review period.

WY Columbia Timberlands
 T27N R09E sec 17
 Snohomish County

Chelan Tree Farm



- +++ = road reconstruction
- = Np streams
- → F stream (Duffey Creek)



GPS Point	Description	Pipe Sizes		Identifier	Comments
		Diam.	Length		
Low Road					
496	Begin reconstruction				
495	Install Cross-drain Culvert	18	30		
385	Existing Np Crossing with 36" culvert				clean inlet and outlet
384	N Stream Crossing	48	30	A	
494	N Stream Crossing	30	30	B	
493	N Stream Crossing	24	30	C	
492	Existing Np Crossing with 24" culvert				clean inlet and outlet
491	N Stream Crossing	24	30	D	
490	N Stream Crossing	30	30	E	
489	N Stream Crossing	30	30	G	
488	N Stream Crossing	24	30	H	
487	N Stream Crossing	24	30	I	
506	Install Cross-drain Culvert	18	30		
505	Existing Np Crossing with 24" culvert				clean inlet and outlet
382	N Stream Crossing	48	30	J	
486	Existing 18" Cross-drain culvert				clean inlet and outlet
485	Existing landing				
484	Install Cross-drain Culvert	18	30		
483	Np Stream Crossing	30	30	K	
482	Np Stream Crossing	36	30	L	
481	Install Cross-drain Culvert	18	30		
480	Install Cross-drain Culvert	18	30		
479	hard rock in cut slope				
478	End of road, existing landing				

RECEIVED NW REGION

MAR 07 2016

Washington State Hydrology USGS Regression Equations

Region 2

SR A, J Date 2/1/2014
 Project Where Eagles Dare - Low Rd.
 Made By WJ Wo rden

Equations:

Q_{2yr}	=	$0.067 \times A^{0.866} \times (MAP)^{1.59}$	(Standard Error = 61%)
Q_{10yr}	=	$0.107 \times A^{0.861} \times (MAP)^{1.62}$	(Standard Error = 58%)
Q_{25yr}	=	$0.126 \times A^{0.859} \times (MAP)^{1.63}$	(Standard Error = 58%)
Q_{50yr}	=	$0.139 \times A^{0.857} \times (MAP)^{1.64}$	(Standard Error = 59%)
Q_{100yr}	=	$0.153 \times A^{0.856} \times (MAP)^{1.64}$	(Standard Error = 60%)

Legend

Q = Flow (cfs)
 A = Drainage Basin Area (miles²)
 MAP = Mean Annual Precipitation (inches)

Limits

(0.08 miles² ≤ A ≤ 1,540 miles²)
 (23 in ≤ MAP ≤ 170 in)

Description of Area	Return Frequency	A	MAP	Q
Stream Crossing A	100	0.109	80	30.41

Figure 2-7.2
 USGS Regression Equations — Region 2

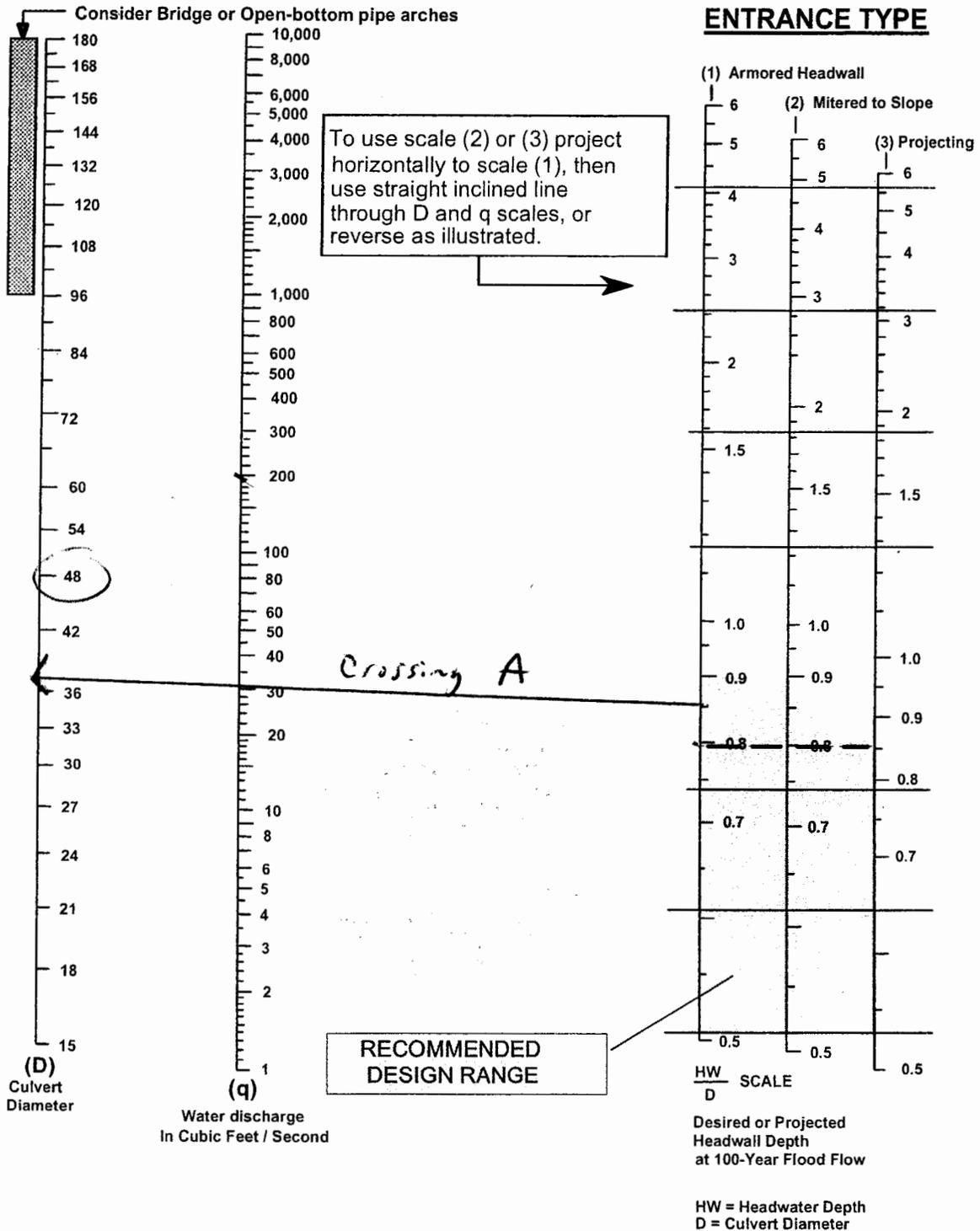


Figure 3.4 Nomograph for calculating sizes for round corrugated metal culvert pipe on Type N Waters.

Marbled Murrelet Form

Western Washington Forest Practices Application/Notification

**Complete this form only if you are harvesting timber (including salvage) or constructing roads.
Do not complete this form if you have an HCP for marbled murrelets.**

Answer every question.

1. No Yes For this FPA/N, has a protocol survey(s) been completed that includes:
- Harvest units (and within 300 ft on your ownership), or
 - Salvage units (and within 300 ft on your ownership), or
 - Any area of proposed road construction (and within 300 ft on your ownership)?

If 'Yes', fill out the table and check the appropriate findings below.

Survey ID (Name or Unit #)	Township, Range, & Section	Survey was approved by WDFW (Attach approval letter from WDFW)	Survey was disapproved by WDFW and is being resubmitted with this FPA/N (Explain below)	Survey has been submitted to WDFW and survey approval is unknown (Explain below)	Survey is complete but has not yet been submitted to WDFW (Submit survey with FPA/N)
		<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections
		<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections
		<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections	<input type="checkbox"/> Occupancy <input type="checkbox"/> Presence <input type="checkbox"/> No Detections

Explanation:

2. No Yes Unknown Will you harvest, salvage, or construct roads within 0.25 miles of an occupied site?

3. No Yes Unknown Will you fly helicopter(s) over or within 0.25 miles of an occupied site?

4. No Yes Will you harvest *live* trees in a buffer of an occupied site?

If Yes, describe the leave trees and buffer widths you will leave. **NOTE:**
If you leave less than required in WAC 222-16-080(1) (j) (v) this is a Class IV-Special and an Environmental Checklist is required

Description of managed buffers:

5. No Yes Are there nesting platforms within any harvest unit (including salvage and road construction) that are within 300 feet that:
- Are not located within a surveyed area, **and**;
 - Have a minimum of 2 platforms per acre, **and**;
 - Are located within 7 or more acres of contiguous habitat, **and**;
 - Have a least 40% (number not volume) of the dominant and co-dominant trees made up of Douglas-fir, western hemlock, western red cedar, or Sitka spruce?

If "Yes", complete the table below for those areas.

Name or # (as shown on map) of delineated stands of contiguous habitat	Delineated stand acres	Nesting platforms per acre	Number of trees 32 inches dbh or greater with platforms	Platform Assessment Method Field Sampling Method, Sample Plot Method, 100% Cruise Method, Inventory Model Method, or Other

6. No Yes Are there areas within this forest practice or within 300 feet that:
- Are not surveyed, **and**;
 - Are not listed in question 5, **and**;
 - Have trees that are at least 32 inches dbh

If "Yes", list the forest practice unit numbers from your activity map. Provide brief description of current stand conditions. Such as tree species composition, stand age (if known), and maximum tree size (dbh).

Harvest Unit #(s) _____ Within the Unit Within 300 feet of the Unit

Description:

Harvest Unit #(s) _____ Within the Unit Within 300 feet of the Unit

Description:

Harvest Unit #(s) _____ Within the Unit Within 300 feet of the Unit

Description:

7. If you answered yes to question 1, 4, or 5, include a map (separate from your map that shows your harvest units and/or road construction) See the instructions for the information required on each map.

**Washington State Hydrology
USGS Regression Equations**

Region 2

SR Crossings E, G Date 3/1/14
 Project Whole Eagles Dam
 Made By Wes Worden

Equations:

Q_{2yr}	=	$0.067 \times A^{0.866} \times (MAP)^{1.59}$	(Standard Error = 61%)
Q_{10yr}	=	$0.107 \times A^{0.861} \times (MAP)^{1.62}$	(Standard Error = 58%)
Q_{25yr}	=	$0.126 \times A^{0.859} \times (MAP)^{1.63}$	(Standard Error = 58%)
Q_{50yr}	=	$0.139 \times A^{0.857} \times (MAP)^{1.64}$	(Standard Error = 59%)
Q_{100yr}	=	$0.153 \times A^{0.856} \times (MAP)^{1.64}$	(Standard Error = 60%)

Legend

Q = Flow (cfs)
 A = Drainage Basin Area (miles²)
 MAP = Mean Annual Precipitation (inches)

Limits

(0.08 miles² ≤ A ≤ 1,540 miles²)
 (23 in ≤ MAP ≤ 170 in)

Description of Area	Return Frequency	A	MAP	Q
Crossings E + G	100 yr	0.030	80	9.96

Figure 2-7.2
 USGS Regression Equations — Region 2

RECEIVED NW REGION
 MAR 07 2016

Stream Crossings E, G

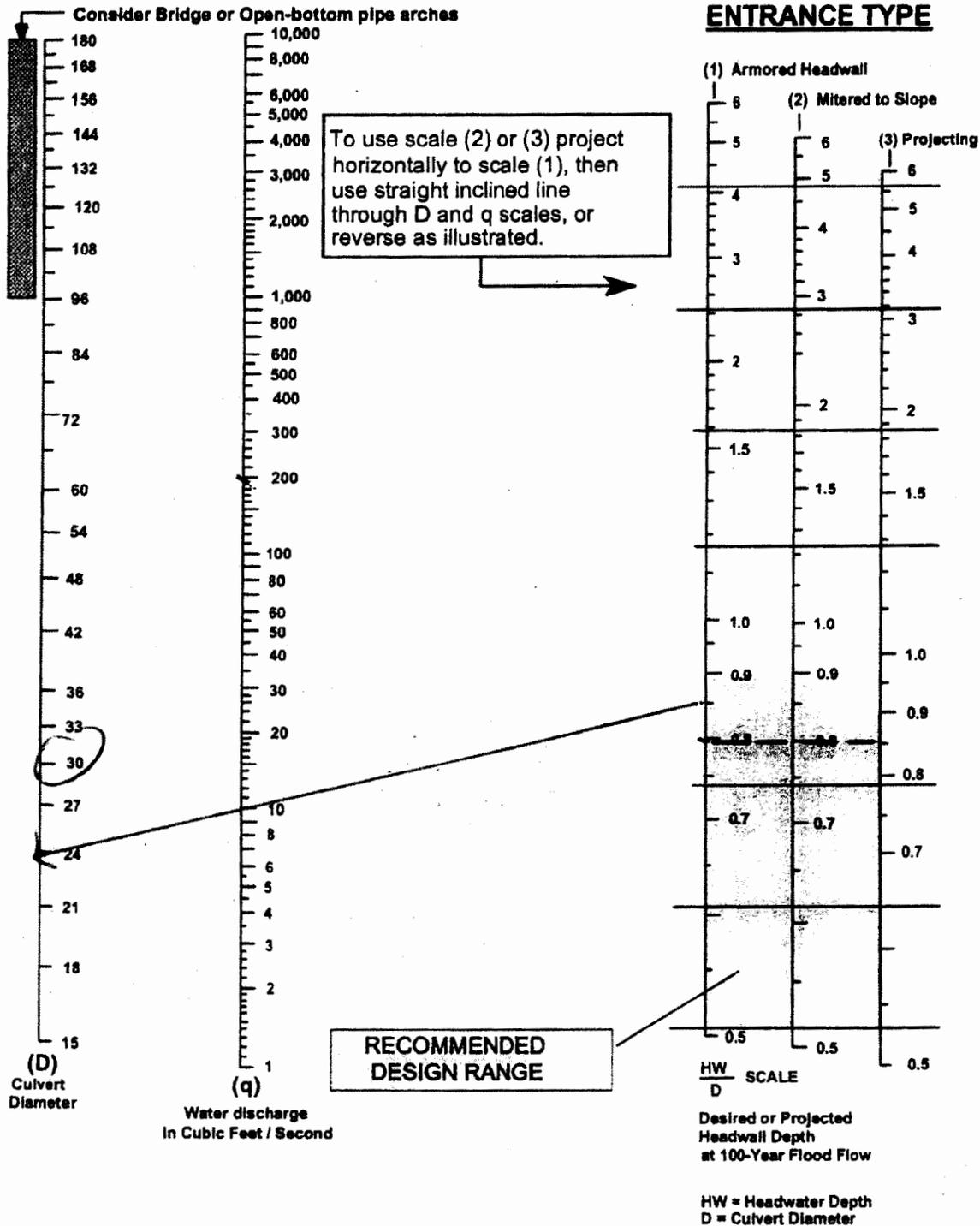


Figure 3.4 Nomograph for calculating sizes for round corrugated metal culvert pipe on Type N Waters.

RECEIVED NW REGION
 MAR 07 2016

**Washington State Hydrology
USGS Regression Equations**

Region 2

SR See Description Date 3/1/14
 Project Where Eagles Dare
 Made By Way Warden

Equations:

Q_{2yr}	=	$0.067 \times A^{0.866} \times (MAP)^{1.59}$	(Standard Error = 61%)
Q_{10yr}	=	$0.107 \times A^{0.861} \times (MAP)^{1.62}$	(Standard Error = 58%)
Q_{25yr}	=	$0.126 \times A^{0.859} \times (MAP)^{1.63}$	(Standard Error = 58%)
Q_{50yr}	=	$0.139 \times A^{0.857} \times (MAP)^{1.64}$	(Standard Error = 59%)
Q_{100yr}	=	$0.153 \times A^{0.856} \times (MAP)^{1.64}$	(Standard Error = 60%)

Legend

Q = Flow (cfs)
 A = Drainage Basin Area (miles²)
 MAP = Mean Annual Precipitation (inches)

Limits

(0.08 miles² ≤ A ≤ 1,540 miles²)
 (23 in ≤ MAP ≤ 170 in)

Description of Area	Return Frequency	A	MAP	Q
Crossings C, D, H, I	100 yr	0.025	80	8.40

Figure 2-7.2
 USGS Regression Equations — Region 2

RECEIVED NW REGION

MAR 07 2016

Stream Crossing C, O, H, I

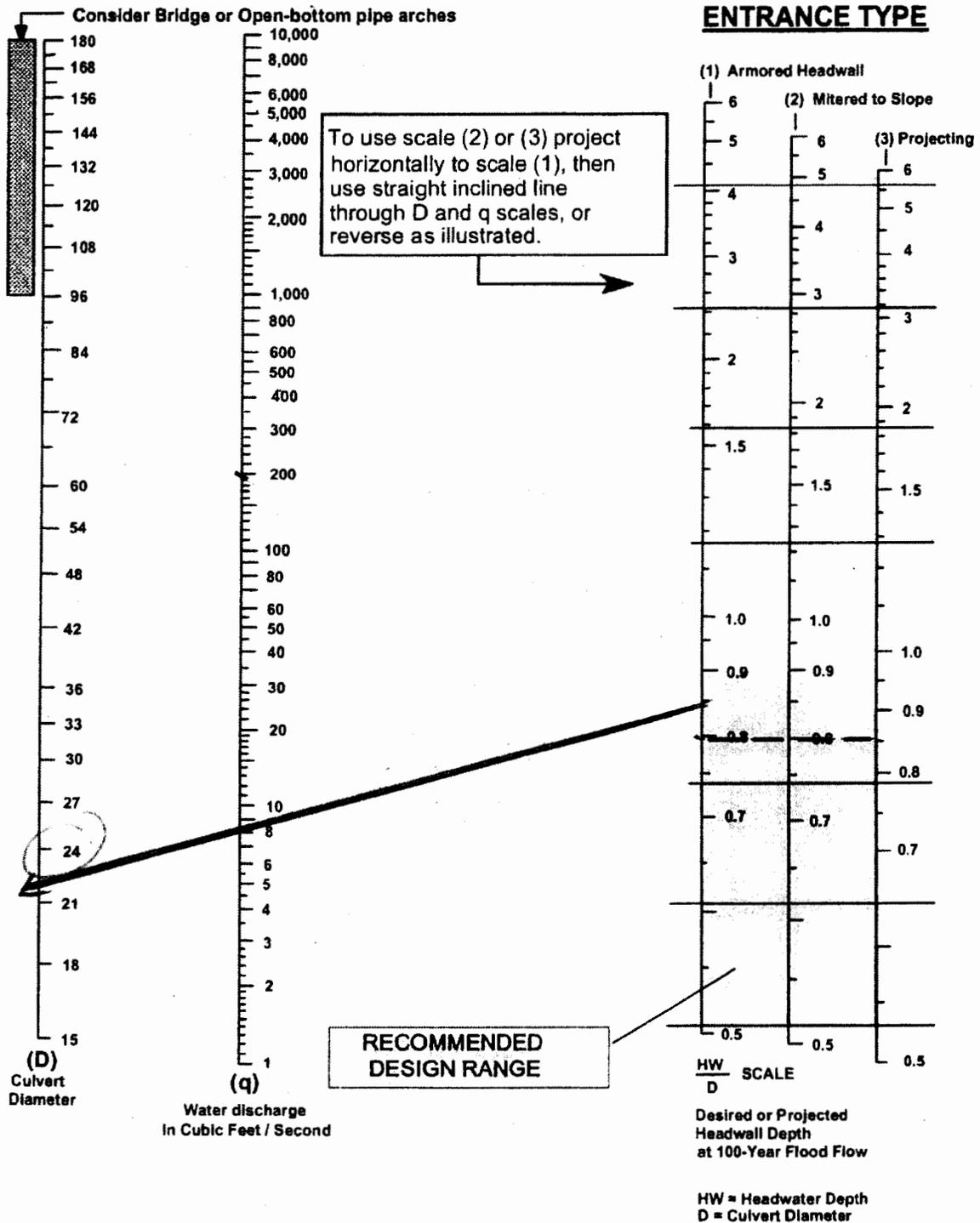


Figure 3.4 Nomograph for calculating sizes for round corrugated metal culvert pipe on Type N Waters.

RECEIVED NW REGION

MAR 07 2016

**Washington State Hydrology
USGS Regression Equations**

Region 2

SR Crossing B & K Date 3/1/16
 Project Whore Engles Dam
 Made By Way Warden

Equations:

Q_{2yr}	=	$0.067 \times A^{0.866} \times (MAP)^{1.59}$	(Standard Error = 61%)
Q_{10yr}	=	$0.107 \times A^{0.861} \times (MAP)^{1.62}$	(Standard Error = 58%)
Q_{25yr}	=	$0.126 \times A^{0.859} \times (MAP)^{1.63}$	(Standard Error = 58%)
Q_{50yr}	=	$0.139 \times A^{0.857} \times (MAP)^{1.64}$	(Standard Error = 59%)
Q_{100yr}	=	$0.153 \times A^{0.856} \times (MAP)^{1.64}$	(Standard Error = 60%)

Legend

Q = Flow (cfs)
 A = Drainage Basin Area (miles²)
 MAP = Mean Annual Precipitation (inches)

Limits

(0.08 miles² ≤ A ≤ 1,540 miles²)
 (23 in ≤ MAP ≤ 170 in)

Description of Area	Return Frequency	A	MAP	Q
Crossing B & K	100 yr	0.025	80	8.60

Figure 2-7.2
 USGS Regression Equations — Region 2

RECEIVED NW REGION

MAR 07 2016

Stream Crossing B, k

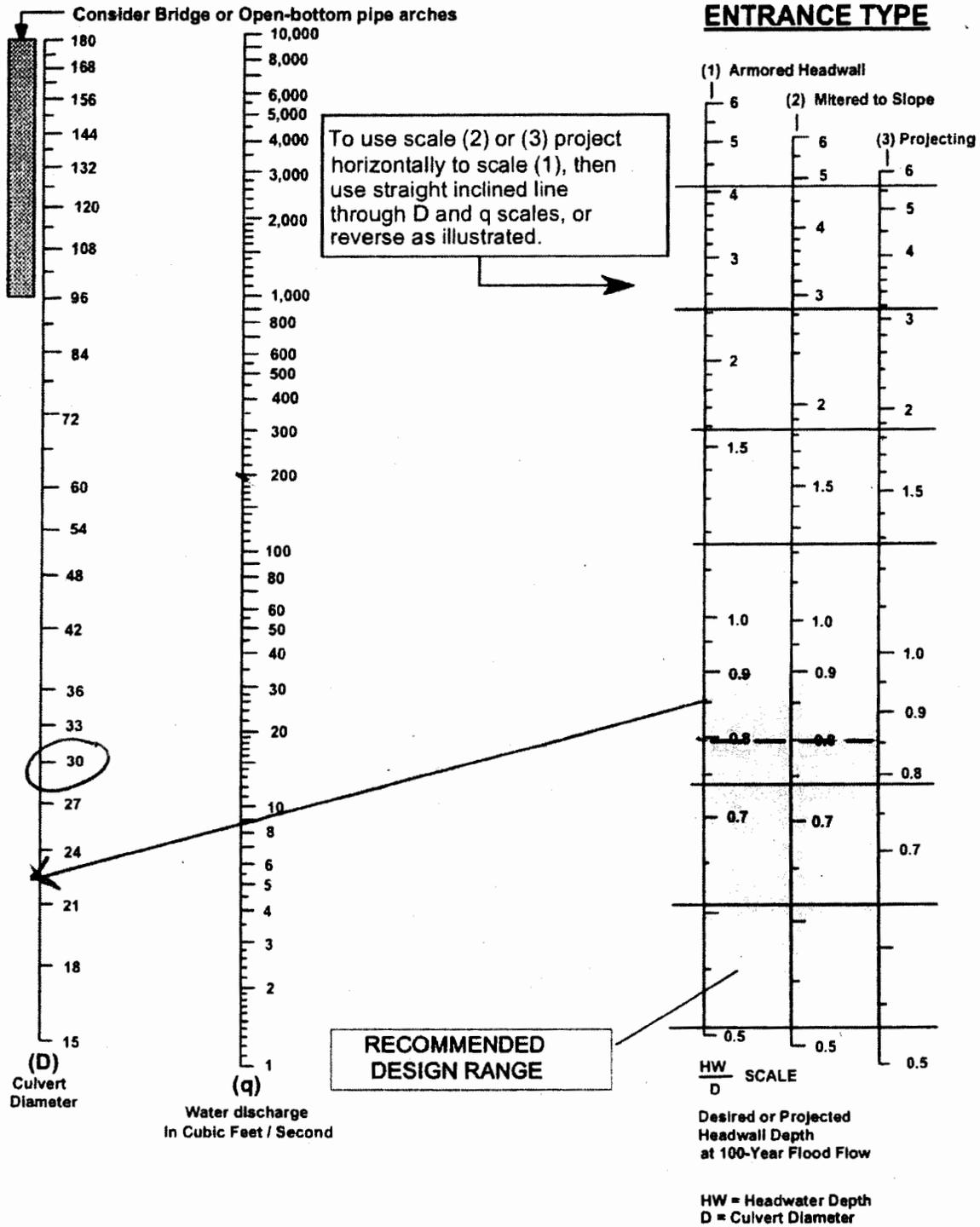


Figure 3.4 Nomograph for calculating sizes for round corrugated metal culvert pipe on Type N Waters.

RECEIVED NW REGION

MAR 07 2016

**Washington State Hydrology
USGS Regression Equations**

Region 2

SR Crossing L Date 3/1/14
 Project Where Eagles Dare
 Made By Wes Warden

Equations:

Q_{2yr}	=	$0.067 \times A^{0.866} \times (MAP)^{1.59}$	(Standard Error = 61%)
Q_{10yr}	=	$0.107 \times A^{0.861} \times (MAP)^{1.62}$	(Standard Error = 58%)
Q_{25yr}	=	$0.126 \times A^{0.859} \times (MAP)^{1.63}$	(Standard Error = 58%)
Q_{50yr}	=	$0.139 \times A^{0.857} \times (MAP)^{1.64}$	(Standard Error = 59%)
Q_{100yr}	=	$0.153 \times A^{0.856} \times (MAP)^{1.64}$	(Standard Error = 60%)

Legend

Q = Flow (cfs)
 A = Drainage Basin Area (miles²)
 MAP = Mean Annual Precipitation (inches)

Limits

$(0.08 \text{ miles}^2 \leq A \leq 1,540 \text{ miles}^2)$
 $(23 \text{ in} \leq \text{MAP} \leq 170 \text{ in})$

Description of Area	Return Frequency	A	MAP	Q
Crossing L	100 yr	0.023	80	8.14

Figure 2-7.2
USGS Regression Equations — Region 2

RECEIVED NW REGION

MAR 07 2016

Stream Crossing L

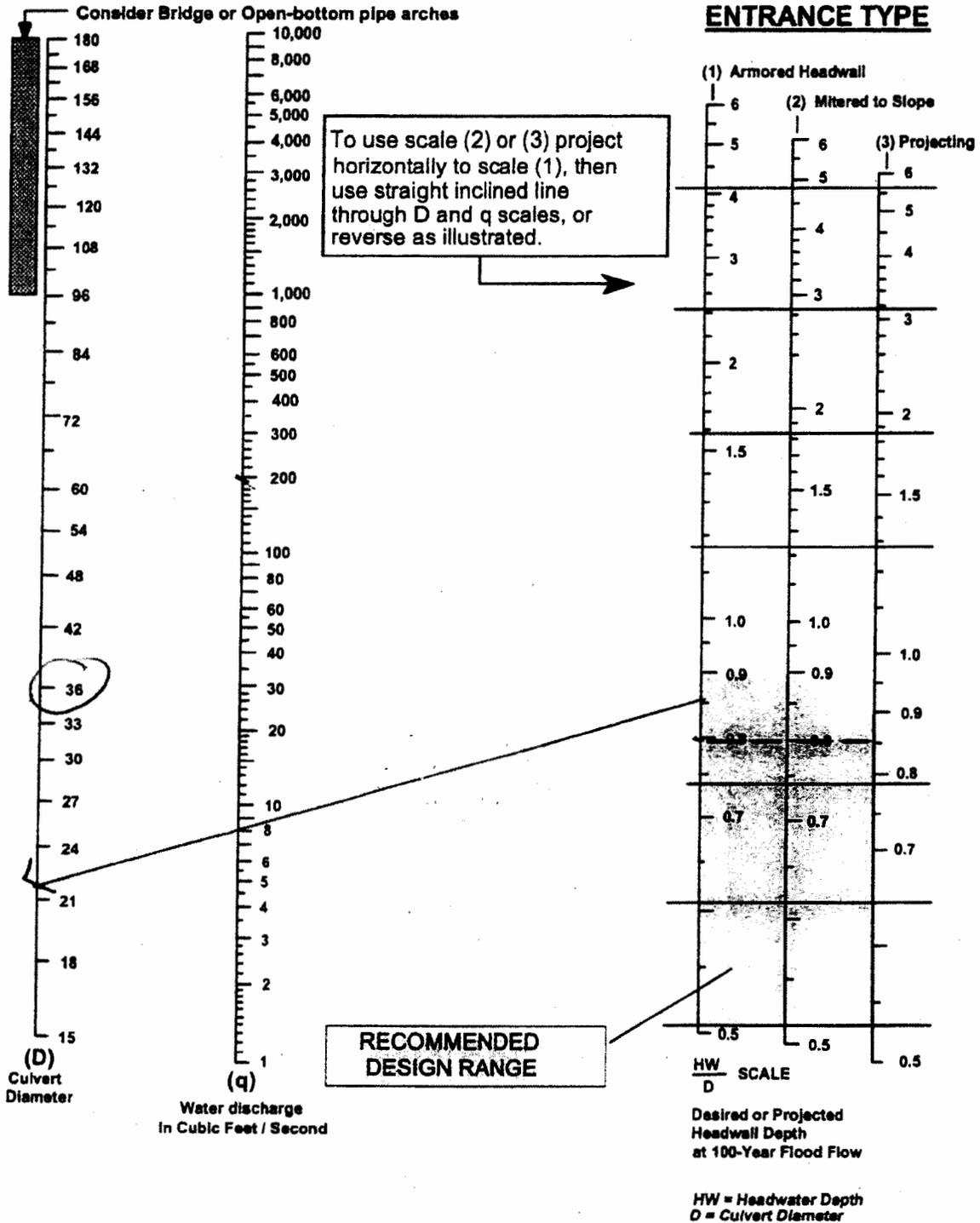


Figure 3.4 Nomograph for calculating sizes for round corrugated metal culvert pipe on Type N Waters.

RECEIVED NW REGION

MAR 07 2016

UTGARD, LINDA (DNR)

From: Worden, Wes <Wes.Worden@weyerhaeuser.com>
Sent: Monday, March 07, 2016 2:48 PM
To: UTGARD, LINDA (DNR); HUANG, STEVEN (DNR)
Subject: FPA 2815004 (Where Eagles Dare Low Spur)
Attachments: CCE03072016.pdf

Hi Linda,

Please accept this additional information with regards to stream culvert crossing sizes. Also please replace page 3 of the original application and the road work list. This reflects an upsizing of two culverts (crossings E and G) that reflect a review of the roads by myself and a road contractor. Thanks.

Wes Worden
Harvest Manager
Weyerhaeuser Columbia Timberlands
509-387-0321

RECEIVED NW REGION

MAR 07 2016



WASHINGTON STATE DEPARTMENT OF
Natural Resources
 Peter Goldmark - Commissioner of Public Lands

FPA/N No: 2815004
 Effective Date: 3/8/2016
 Expiration Date: 3/8/2019

**Forest Practices Application/Notification
 Notice of Decision**

Shut Down Zone: 658
 EARR Tax Credit: Eligible Non-eligible
 Reference: **Where Eagles Dare – Low Spur**

DECISION:

- NOTIFICATION Operations shall not begin before the effective date.
- APPROVED This Forest Practices Application is subject to the conditions listed below.
- DISAPPROVED This Forest Practices Application is disapproved for the reasons listed below.
- CLOSED Applicant has withdrawn FPA/N.

FPA/N CLASSIFICATION

Number of Years Granted on Multi-Year Request

Class II Class III Class IVG Class IVS 4yrs 5 yrs

Conditions on Approval / Reasons for Disapproval

THIS OPERATION IS SUBJECT TO THESE CONDITIONS:

No additional conditions.

FOR YOUR INFORMATION:

Notify DNR Northwest Region Office (360-856-3500) 48 business hours before commencing timber harvest operations. Please provide the application number and legal description for your operation.

Issued By: Steven Huang *SH*

Region: Northwest

Title: Skykomish Forest Practice Forester

Date: 3/8/2016

Copies to: Landowner, Timber Owner and Operator

Issued in Person: Landowner, Timber Owner Operator By: _____

Appeal Information

You have thirty (30) days to appeal this Decision and any related State Environmental Policy Act determinations to the Pollution Control Hearings Board in writing at the following addresses:

Physical address: 1111 Israel Rd. SW, Ste 301, Tumwater, WA 98501

Mailing address: P.O. BOX 40903, OLYMPIA, WA 98504-0903

Information regarding the Pollution Control Hearings Board can be found at: <http://www.eluho.wa.gov/>

At the same time you file an appeal with the Pollution Control Hearings Board, also send a copy of the appeal to the Department of Natural Resources' region office and the Office of the Attorney General at the following addresses:

Office of the Attorney General
Natural Resources Division
1125 Washington Street SE
PO Box 40100
Olympia, WA 98504-0100

And

Department Of Natural Resources
Northwest Region
919 N Township Street
Sedro-Woolley, WA 98284

Other Applicable Laws

Operating as described in this application/notification does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.

Hydraulic Project Approval (HPA) (Chapter 77.55RCW and WAC 222-50-020(2))

The Department of Fish and Wildlife (WDFW), as the jurisdictional agency issuing HPAs, has final authority for approving water crossing structures in Type S and F waters. WDFW continues to have authority on Type N waters and may exercise that authority on some Type N waters.

Notice: The HPA water crossing requirements supersede what is indicated on the FPA. Landowners are required by law to follow the provisions as directed on the HPA.

Transfer of Forest Practices Application/Notification (WAC 222-20-010)

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices Division website: <http://www.dnr.wa.gov/businesspermits/forestractices>. Notify DNR of new Operators within 48 hours.

Continuing Forest Land Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)

Obligations include reforestation, road maintenance and abandonment plans, conversions of forest land to non-forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

Before the sale or transfer of land or perpetual timber rights subject to continuing forest land obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land Obligation" form and send it to the DNR Region Office for retention. This form is available at DNR region offices.

If the seller fails to notify the buyer about the continuing forest land obligation, the seller must pay the buyer's costs related to continuing forest land obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forest land obligation against the seller.

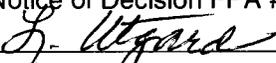
Failure by the seller to send the required notice to the DNR at the time of sale will be prima facie evidence in an action by the buyer against the seller for costs related to the continuing forest land obligation prior to sale.

DNR affidavit of mailing:

On this day 3-9-16, I placed in the United States mail at Sedro-Woolley, WA, postage paid, a true and accurate copy of the attached document. Notice of Decision FPA # 2815004

L Utgard

(Printed name)



(Signature)



WASHINGTON STATE DEPARTMENT OF **Natural Resources**

**Forest Practices Application/Notification
NOTICE OF TRANSFER**

*Where Eagles Dare Pds
HUN 11488*

I/we transfer my/our rights, privileges, and obligations under this approved Forest Practices Application or Notification. I/we affirm that the information contained below is true and agree to comply with the rules authorized by the Forest Practices Act and to be bound by all conditions on the approved application or notification.

FPA/N Number: 2815004 Section(s): 6, 17 Township: 27 Range: 9

Original Landowner (Signature): *Connie Carter*

Original Landowner (Printed): Weyerhaeuser Columbia Timberlands, LLC Date: 3/10/16

New Operator – Fill out this section <u>only</u> if you are changing or adding an operator	
Legal Name of New Operator: (Print) Natapoc	Mailing Address: 19622 Beaver Valley Rd. Leavenworth, WA 98826
Phone: 509-433-1832	
Email: dpobst@nwi.net	
New Operator Signature: <u><i>Dennis Pobst</i></u>	Date: <u>3/10/16</u>

New Landowner – Fill out this section <u>only</u> if you are transferring your FPA to a new landowner	
Legal Name of New Landowner: (Print)	Mailing Address:
Phone:	
Email:	
New Landowner Signature:	Date:

New Timber Owner – Fill out this section <u>only</u> if you are transferring your timber rights	
Legal Name of Timber Owner: (Print)	Mailing Address:
Phone:	
Email:	
Forest Tax Reporting Account Number: (Contact Dept. of Revenue to get this number: 1-800-548-8829)	
New Timber Owner Signature:	Date:

<input checked="" type="checkbox"/> Received by: <u><i>J. Utz</i></u>	Date: <u>3/10/16</u>
(DNR Forest Practices Staff Signature)	