



**Forest Practices Application/Notification
Office Checklist Page 1
Southeast Region**

FPA/N #: 2706582
 Received Date: 9/10/18
 WDFW Concurrence Due Date: -
 WDFW Concurrence Review Completed: -
 Comments Due Date: 9/23/18
 Decision Due Date: 10/9/18
 FP Forester: 6584-Gilmer
 Shutdown Zone: 675
 RMAP #: R2700811L

FPA/N CLASSIFICATION: [] II <input checked="" type="checkbox"/> III [] IVG [] IVS		Biomass [] FFFPP [] 20-acre exempt []
Landowner Name: <u>WA DNR</u>	Project Name: <u>West Fork Teanaway Bridge</u>	
WRIA: <u>39 upper Yakima</u>	WUA: <u>WF Teanaway</u>	
WRIA: <u>↓</u>	WUA: <u>↓</u>	
WRIA: <u>↓</u>	WUA: <u>↓</u>	
Legal Description: <u>Sec. 1 - T20 - R15 E</u>	County: <u>Kittitas</u>	
Activity Type: Harvest <u>-</u> ac	Spray <u>-</u> ac	Stream Crossing(s) <u>1</u>
* Road Construction <u>350</u> ft	Road Abandonment <u>-</u> ft	Rock Pit <u>-</u> ac
		Spoils <u>-</u> cy

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 Low to N/A
 - Landslide Hazard Zonation
 - Landslide Inventory 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
 - Hatchery (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: _____)
 - In or Over Typed Water
 - Volume greater than 5 mbf per acre

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

ASSOCIATED SCANNED DOCUMENTS

- SEPA Checklist/Documents
- Conversion Option Harvest Plan
- FPHP Plans & Specifications
- Qualified Expert Report; Type: _____
- Natural Regeneration Plan
- Shoreline Permit
- Marbled Murrelet Form
- FPBM Appendix(s) _____
- Small Landowner RMAP Checklist
- CMZ Assessment Form
- Large Landowner Road Maintenance and Abandonment Plan
- 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 No N/A
 ADDITIONAL COMMENTS: * Reconstruct existing T3000 approach to bridge site.

Form completed by SS
 October, 2016 Version



Forest Practices Application/Notification Eastern Washington

For DNR Region Office Use Only	
FPA/N #:	2706582
Region:	Southeast
Received Date:	9/10/18

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)
WA Department of Natural Resources	Same as Landowner	Same as Landowner
Mailing Address: 713 Bowers Road	Mailing Address:	Mailing Address:
City, State, Zip Ellensburg, WA 98926	City, State, Zip	City, State, Zip
Phone (509)925-8510	Phone ()	Phone ()
Email:	Email:	Email:

2. Contact Person

Contact Person: Nick Jones - DNR Southeast Region Engineer	Phone (509)925-0928 Email: nick.jones@dnr.wa.gov
---	--

3. Landownership information: See instructions

a. No Yes Are you a small forest landowner per RCW 76.09.450?

If yes, continue to b.

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

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

N/A

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 prescriptions and/or crosswalks on file at the Region office.

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

Section	Township	Range	E/W	Tax Parcel Number	County
1	20	15	E	129234	Kittitas

7. When are you planning to begin work on the proposed activity? Summer of 2019

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: 2700811L

If no, continue to b.

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

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

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

12. Are there potentially unstable slopes or landforms around the area of your forest practices activity?

No Yes – attach 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 harvest/salvage of 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 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 CMZ Assessment Form. Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

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

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.

Prior to answering Questions 14-17 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 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 Question 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**, puncheon, 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)	FFPP Project (Y or N)
A	S			Replace	Bridge	60' x 14'	Hydraulic	35	1	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 Question 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 the Activity map and/or more information in Question 31. 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 Question 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 Question 24 of the FPA/N Instructions.

18. If constructing or abandoning forest roads, complete the table below. Show the road locations and identifiers on the 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
T3000*	350	15		
*reconst approaches				

19. If depositing spoils and/or expanding or developing a rock pit for forestry use, complete the table below. Show locations and identifiers on the 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 the 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 will be drained?	How many acres will be filled?

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

21. If harvesting or salvaging timber, complete the table below. Show all harvest areas and unit numbers on your Activity Map. For even-aged harvest units, also show surrounding stand information on the Activity Map.

Unit Number	Harvest Type (Even-aged, Uneven-aged, Salvage, Right-of-Way)	Biomass Harvest (Y/N)	Harvest Method (Rubber Tired Skidder, Tracked Skidder, Dozer, Shovel, Full Suspension Cable, Lead-end Suspension Cable, Helicopter, Animal, Chipper-forwarder, Slash Bundler)	Acres to be Harvested	Volume to be Harvested (mbf)	Volume to be harvested (biomass tonnage)	Volume to be Harvested (salvage only) (%)	Estimated Number of Trees Per Acre Remaining after Harvest		Steepest Slope in Harvest Unit (%)
								Less than 10" dbh	Greater than or equal to 10" dbh	

22. Reforestation. Check the appropriate box(es).

- Planting. Tree Species: _____
- Natural. Include a Natural Regeneration Plan
- Not required because of one or more of the following:
 - I am converting some or all of this land to non-forest land in the next 3 years or lands are exempted under WAC 222-34-050.
 - Individual dead, dying, down, or wind-thrown trees will be salvaged.
 - Trees are removed under a thinning program reasonably expected to maximize the long-term productivity of commercial timber.
 - I am leaving at least 100 vigorous, undamaged, and well-distributed saplings or merchantable trees per acre.
 - An average of 150 tree seedlings per acre are established on the harvest area and my harvest will not damage it.
 - Road right-of-way or rock pit development harvest only.

**** If you own MORE than 80 forested acres in Washington, skip to Question 27 ****

23. Are you using the exempt 20-acre parcel riparian management zone (RMZ) rule on type S, F, or Np waters?

- No If no, continue to Question 27.
- Yes If yes, continue to Question 24. See instructions for qualifications and information.

24. Choose the answer below that best fits your situation. Show all RMZs on the Activity Map.

- a. ALL of the following apply to me and my land: (If no, answer b.)
 - Between June 5, 2006 and today's date I have always owned less than 80 acres of forestland in Washington.
 - Between June 5, 2006 and today's date this parcel has always been 20 acres or less of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
 - Between June 5, 2006 and today's date this parcel has always been owned by me or someone else that has owned less than 80 acres of forestland in Washington.

b. ONE OR MORE of the following apply to me and/or my land (check all that apply):

- I currently own more than 80 acres of forestland in Washington.
- Between June 5, 2006 and today's date I have owned more than 80 acres of forestland in Washington.
- Between June 5, 2006 and today's date this parcel has been a part of more than 20 acres of contiguous ownership. Refer to RCW 76.09.020 for definition of 'contiguous'.
- Between June 5, 2006 and today's date this parcel has been owned by someone that has owned more than 80 forested acres in Washington.

If any of the statements in (b) above apply AND you use the 20-acre exempt RMZ rule, you are NOT authorized under the State's Incidental Take Permits (see explanation in FPA instructions under Question 24).

25. If harvesting within 345 feet of a Type S or F water on an exempt 20-acre parcel, complete the table below. Show RMZs and stream segment identifiers on the Activity Map. If you are harvesting within 75 feet or within the maximum RMZ (whichever is less), stream shade must be assessed and met following harvest. Describe in Question 31 how stream shade was determined to be met or use the 'Stream Shade Assessment Worksheet' if necessary.

Stream Segment Identifier (letter)	Segment Length (feet)	Adjacent Harvest Type (partial cut or other)	Maximum RMZ Width (feet)	Are you harvesting within the maximum RMZ? (Y or N)

26. Are you harvesting within 29 feet of a Type Np water on a 20-acre exempt parcel?

- No Continue to Question 29.
- Yes See instructions and describe leave tree strategy in Question 31. Then continue to Question 29.

27. If harvesting within 130 feet of any of Type S or F water, complete the table below. Include stand information for all inner zone harvests unless you have an HCP prescription. Show RMZs, CMZs, and stream segment identifiers on your Activity Map. If you are harvesting within 75 feet or within the maximum RMZ, whichever is less, stream shade must be assessed and met following harvest. Describe in Question 31 how stream shade was determined to be met or use the 'Stream Shade Assessment Worksheet' if necessary.

Stream Segment Identifier (letter)	Water Type (S or F)	Site Class (I - V)	Stream Width (feet)	Is there a CMZ? (Y/N)	RMZ Harvest Code(s) (see instructions)	DFC Run Number	Total width of RMZ (feet)

28. If harvesting within 50 feet of Type Np water, complete the table(s) below. Show RMZs and stream segment identifiers on the Activity Map.

Stream Segment Identifier (letter)	Selected Strategy (partial cut or clearcut)	Stream Segment Identifier (letter)	Selected Strategy (partial cut or clearcut)

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

Harvest Boundaries: N/A

Clumped Wildlife Reserve Trees/Green Recruitment Trees: N/A

Right-of-way limits/road centerlines: Reference stakes and slope stakes

Stream Crossing Work: Reference stakes and slope stakes

Riparian Management Zone Boundaries and Leave/Take Trees: N/A

Channel Migration Zone: _____

Wetland Management Zone Boundaries and Leave/Take Trees: _____

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.
See attached narrative for Question 31.

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.
- Inadvertent Discovery – Chapters 27.44, 27.53, 68.50 and 68.60 RCW
 - If you find or suspect you have found an archaeological object or Native American cairn, grave, or glyptic record, immediately cease disturbance activity, protect the area and promptly contact the Department of Archaeology and Historic Preservation at 360 586-3077.
 - If you find or suspect you have found human skeletal remains, immediately cease disturbance activity, protect the area, and contact the County Coroner or Medical Examiner and local law enforcement as soon as possible. Failure to report human remains is a misdemeanor.

The landowner understands that by signing and submitting this FPA, he/she is authorizing the Department of Natural Resources to enter the property in order to review the proposal, inspect harvest operations, and monitor compliance for up to three years after its expiration date. RCW 76.09.150

Signature of LANDOWNER  Print Name: Nicholas J. Jones Date: 9/10/2016	Signature of TIMBER OWNER* (If different than landowner) Print Name: Date:	Signature of OPERATOR (If different than landowner) Print Name: Date:
--	---	--

* 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.

West Fork Teanaway Bridge Replacement
 NW¼ of NE¼ of Section 1 T20N R15E

The West Fork Teanaway Bridge Replacement Project is located in northwest quarter of the northeast quarter of Section 1 in Township 20 North, Range 15 East, W.M. This project is located on the T3000 Road where the road crosses the West Fork Teanaway River in the Teanaway Community Forest, approximately 5 miles north-northeast of Cle Elum, WA. The Washington State Department of Natural Resources (DNR) acquired this parcel in 2013 from American Forest Holdings (AFH). The West Fork Teanaway River is designated as a shoreline by Kittitas County. The existing bridge structure was installed circa 1976. The bridge structure is on the road system used for forest management activities, including fire suppression, for the much of the area south of the West Fork Teanaway River. The bridge has structural damage on the upstream side and the south abutment has been undermined. The bridge was posted with a 5-ton load restriction in 2017 and is no longer usable for management activities.

The project consists of replacing the existing concrete bridge with a two-piece modular steel bridge superstructure set on pre-cast abutments. The new structure length will be increased from 42' to 60' and the elevation of the bottom of the girders raised approximately 18 inches, which will create a larger hydraulic opening.

Since this project is located on a Type S water, Kittitas County was consulted. This project is exempt from a Shoreline Permit under Kittitas County Code 17.B.07.030 Item 2b since the project is considered a replacement/repair of an existing structure. A Shoreline Exemption Permit will be submitted to Kittitas County once the Forest Practices/Hydraulic Permit Application has been submitted and accepted for review. Since this project falls under a Forest Practices/Hydraulic Permit and not JARPA (Joint Aquatic Resources Permit Application), Kittitas County requires proof that the Forest Practices/Hydraulic Permit has been submitted for processing of the Shoreline Exemption Permit.

The project is subject to a categorical exemption from SEPA (State Environmental Policy Act) under RCW (Revised Code of Washington) 43.21C.470 and WAC (Washington Administrative Code) 197-11-800 Item 3. This project is for the replacement of a structurally deficient bridge. This bridge has been inspected annually since acquisition by DNR from AFH. Bridge inspections and rating are conducted under DNR standards for bridge inspections.

The following is additional information for the questions in the Forest Practices Application.

5. There is not a HCP for this parcel of ground. HCP only applies to DNR ownership on trust parcels, those owned by DNR prior to acquisition of the AFH ownership.
9. The area was reviewed for cultural resources by a DNR Cultural Resource Technician in which none were found. A cultural resource report has been compiled and included with this application. A DNR Cultural Resource Technician will be on site during construction and if resources are found, all work will cease until an approved site protection plan is created.
- 11-12. No unstable slopes at project site. The Slope Stability Screening Tool (Eastside) in GIS shows some pixels indicating very small areas of medium to high to the south-southwest of the project area. The area to the south-southwest of the project area contains sandstone outcrops. This project will not affect these areas.
- 13f. See above discussion related to Shoreline Exemption.
- 13j. On the north side of the West Fork Teanaway River, northwest of the existing bridge structure, there is evidence of an old high water channel, approximately 8 feet in width. This channel is not well defined and is heavily vegetated with underbrush and ponderosa pine. This channel has flows only during high water events. The north approach of the existing bridge is located on an old flood plain where water has been present in extreme high water events. The flood plain is flat with no indications of historic side channels, with the exception of previously mentioned channel northwest of the existing bridge, and extends approximately 200' to the north of the West Fork Teanaway River. The north bridge abutment and approach, including a grade sage, were designed to accommodate extreme high water events. This question of the Forest Practices Application was checked yes since the north approach is within the flood plain. For the CMZ Assessment Form, following is a summary for clarification of the questions.
 1. A review of the area for old channels was done through GIS using LIDAR, aerial photos, and USGS topographic maps.
 2. As answered.
 3. Though the valley floor is wider than the channel, there are not any indications of old relic or historic channels with the exception of the mentioned channel northwest of the existing bridge.

4. None the following conditions where observed.
 5. As answered.
 6. As answered.
 7. No components were present.
 8. As answered.
 9. As answered.
- 14c. The West Fork Teanaway is not unconfined above the existing bridge, but is unconfined by below the existing bridge as evidenced by multiple active channels. Additional fill for the north approach, needed for the new bridge structure being raised, will be placed within the floodplain but not in an area that is considered unconfined. This question was checked no since the area of the north approach is not in an unconfined area.
15. The project has been reviewed on site by William Meyer and Scott Downes of the Washington State Department of Fish & Wildlife, Jim Mathews of the Yakama Nation, Wendy Neet of the Washington State Department of Ecology, and Tony Gilmer of the Washington State Department of Natural Resources – Forest Practices.
17. Equipment crossings of the West Fork Teanaway River will be needed to assist in removal of the existing bridge structure, as well as construction of the new bridge substructure and approach. BMP's will be discussed later as additional information.
18. Reconstruction of approaches is listed as road construction.
19. No spoil sites are planned for this project. No rock pits are planned for this project. Two borrow sites are planned for the needed additional approach fill. These sites are marked as "B" and "C" on the attached Forest Practices Base Map. Four ponderosa pine trees will be removed at Site "C" and will be used for large woody debris in accordance with the design.
31. Additional Information.
- A site survey of the area was done using a 10 second theodolite with an EDM so that a site map could be created, calculations performed and a design created. Below is a summary of the work for the West Fork Teanaway Bridge Replacement Project:
- Crossing Identifier "A" on Forest Practices Base Map.
 - Predicted flows.
 - 2-year flow.
 - Streamstats – 533 cubic feet per second (cfs).
 - 100-year.
 - Streamstats - 1702cfs.
 - USBR stream gage interpolation – 3475 cfs.
 - Used for Q100.
 - Replace existing 42 feet long by 14 feet concrete bridge structure with new structure.
 - Substructure.
 - Abutment base.
 - 5/8 inch minus crushed rock.
 - From commercial source.
 - Approximately 20 cubic yards.
 - Compacted.
 - Abutments.
 - Pre-cast concrete.
 - Interlocking block system.
 - In accordance with design.
 - Armoring.
 - 1 foot to 2 feet size range.
 - From commercial source.
 - Approximately 70 cubic yards.
 - Countersunk against substructure.
 - In accordance with the design.
 - Superstructure.
 - 2-piece modular steel superstructure.
 - 60 feet long by 14 feet wide.

- Weathering steel.
 - Untreated wood deck.
 - Reinforced galvanized steel backwall.
 - Freeboard.
 - 3.2 feet of freeboard above anticipated USBR 100-year flow.
 - 4.9 feet above anticipated Steamstats 100-year flow.
 - Over flow dip design on north approach to carry additional flow.
 - In accordance with design.
- Road subgrade.
 - Road subgrade to be raised.
 - 350 feet in length.
 - Approximately 750 cubic yards of additional fill needed.
 - Material for raising of subgrade to come from two potential borrow sources located near the storage yard north of the project area.
 - “B” and “C” on Forest Practices Base Map.
 - 1:5 (H:V) fill slopes.
 - Subgrade width varies from 15 feet to 20 feet.
 - Crowned subgrade shape.
 - Crown shape.
 - 6 inch rise at centerline.
 - Fill material compacted.
 - Approaches slope away from bridge structure.
 - Upstream fill slope armored beyond abutment.
 - 1 foot to 2 feet size range.
 - From commercial source.
 - Approximately 20 cubic yards.
 - Placed against fill slope, toe of armoring countersunk.
 - In accordance with the design.
 - In accordance with design.
- Grade sag.
 - Installation of grade at base of north approach to accommodate overflow in an extreme high water event.
 - Installation location in accordance with design.
- Surfacing.
 - 1 ¼ inch minus crushed rock surfacing:
 - From commercial source.
 - Approximately 120 cubic yards.
 - Application.
 - Applied to 150 feet of north approach starting at bridge.
 - Applied to 140 feet of south approach starting at bridge.
 - Applied to 8 inches loose depth and compacted.
- Erosion control.
 - Spread straw.
 - Along fill slopes and other disturbed areas.
 - 10 straw bales.
- Large woody debris.
 - Trees from clearing for borrow source shown at “C” on Forest Practices Base Map.
 - Four trees.
 - Ponderosa pine.
 - Diameter range from 6 inches to 10 inches.
 - Trees to be placed at low spot adjacent to stream edge on southeasterly side of northern bridge abutment.

Best Management Techniques (BMP's) will be implemented for project. BMP's will consist of:

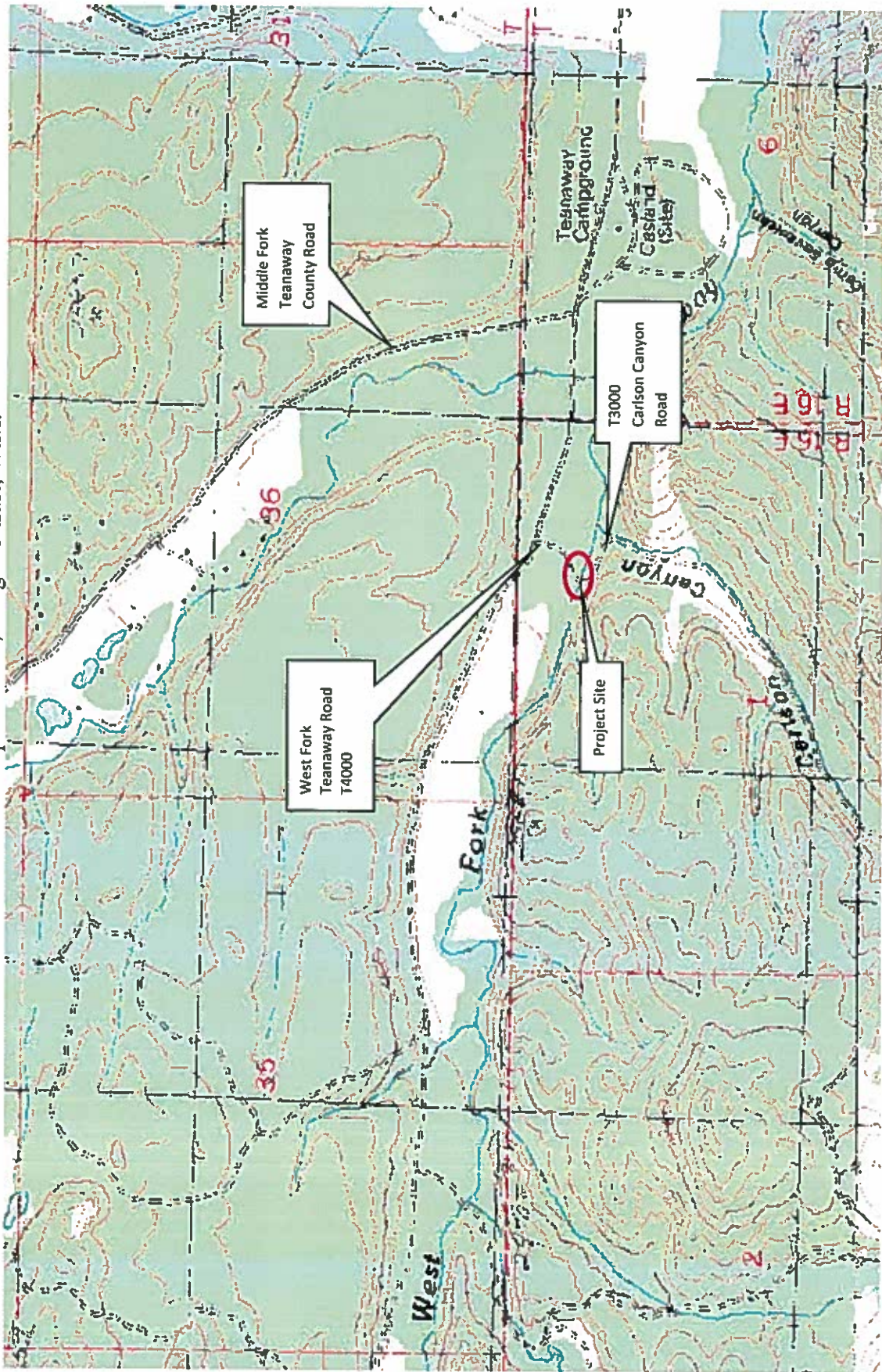
- Project to be completed during low flow conditions. In-channel work to occur between July 1 and September 30.

- All work shall be in accordance with the “West Fork Teanaway Bridge Replacement” design dated May 29, 2018.
- Contractor shall notify Washington State Department of Natural Resources Forest Practices two days prior to start of work. Washington State Department of Natural Resources Forest Practices contact number for Southeast Region is 509 925-8510.
- Equipment to be used for installation will consist of excavator and/or crane.
- Hydraulic system for equipment working in and around waters shall be free of external petroleum-based products or leaks. Equipment shall be checked daily for leaks and any necessary repairs shall be completed at an upland location prior to use.
- Fueling of equipment shall take place a minimum of 100 feet from the edge of stream and shall be completed in a manner to prevent fuel spills.
- Each piece of equipment shall have a spill containment kit.
- Limiting water crossings by heavy equipment. Up to four crossings of the West Fork Teanaway River by heavy equipment (excavator) will be allowed at the project site. Equipment shall cross at points where width of river is narrowest and the least amount of disturbance to the channel will occur. Equipment will travel in a straight track while crossing the channel.
- Disturbance of the streambed, banks, and riparian vegetation shall be limited to that necessary to construct the project. Project activities shall not degrade water quality downstream to the detriment of fish life.
- As deemed feasible, equipment shall work from the bank or roadway.
- Best Management Practices shall be implemented to prevent or reduce non-point source pollution and minimize soil loss. These practices may include, but are not limited to, silt fencing, filter fabric, check-dams and seeding/mulching of exposed areas. If construction activities cause sediment delivery, construction shall stop until the sediment delivery issue has been resolved. Department of Natural Resources Forest Practices shall be notified immediately of a sediment delivery occurrence.
- Handling and placement of materials during bridge removal shall be done in a manner to minimize any potential sediment or material from entering waters.
- If water is present during substructure excavation, the site shall be dewatered prior to commencement of work within the area of direct influence of the river. Dewatering shall consist of pumping utilizing a sump to capture water from substructure excavation. If necessary, bypass pumps will run continuously during the project. A backup pump shall be on-site in the event the primary pump fails. Water from dewatering activities shall be pumped onto the forest floor. Outlet hose shall have a diffuser to prevent scour and erosion. Dewatering activities shall be conducted to prevent any potential sediment delivery.
- Handling and placement of materials during bridge installation shall be done in a manner to minimize any potential sediment or material from entering waters.
- Mechanical compaction of embankment slopes at project site.
- Upon completion of work, all materials used for temporary silt fences or other erosion control structures shall be removed.

The project has been evaluated for species of concern in and around the project area.

- Northern spotted owl. Outside any owl circles.
- Fish – restricted operating window for both anadromous and resident fish to minimize any potential impacts including spawning.
- Grey wolf – no recorded occurrences in area.

Section 1 of Township 20 North, Range 15 East, W.M.



Appendix E. CMZ Assessment Form

Township: 20 Range: 15 Section: 1

Complete and attach this informational form to your FPA if you answered "Yes" to FPA question 13 j. Refer to Forest Practices Board Manual Section 2—Standard Methods for Identifying Bankfull Channel Features and Channel Migration Zones for guidance on evaluating Channel Migration Zones (forms within BM 2 are optional).

Applicant Office Review:

1. Screening tools used: GIS Aerial Photo Years: 1990 to present LiDAR USGS Topographic Map
 Other (describe):


2. Are you aware of channel movement or did you observe obvious channel movement between aerial photograph years?
 No, continue with to question 3 Yes, skip to question 5

3. Evaluate valley confinement using USGS topographic map(s) or aerial photographs.
 Valley floor is significantly wider than the channel. Channel migration may be occurring.
 Valley floor is very narrow, obviously less than twice as wide as the channel. If you can clearly see this circumstance on the aerial photographs, it is unlikely that channel migration is occurring.

4. Did you observe any of the following on the aerial photographs?
 Side Channels Multiple Channels (Braiding)
 Large Gravel Bars Wood Jams
 Eroding Banks High Sinuosity or Sharp Channel Bends
 New Channels Occurring Between Photo Years (Avulsions)

Field Review:

5. Date of field review: August 2, 2018

6. Person(s) that conducted field review: Nick Jones  DNR SE Region Engineer
 Name Title/position
 Name Title/position

7. If CMZ is present check the component(s) present in your CMZ delineation.
 Avulsion hazard area Erosion hazard area (attach erosion rate calculations)

8. What was the distance of channel walked? What was the length of CMZ boundary delineated?
 Channel was walked 200' each side of the proposal area. No CMZ boundary delineated. Single defined active channel above existing bridge structure. Multiple active channels below existing bridge structure.

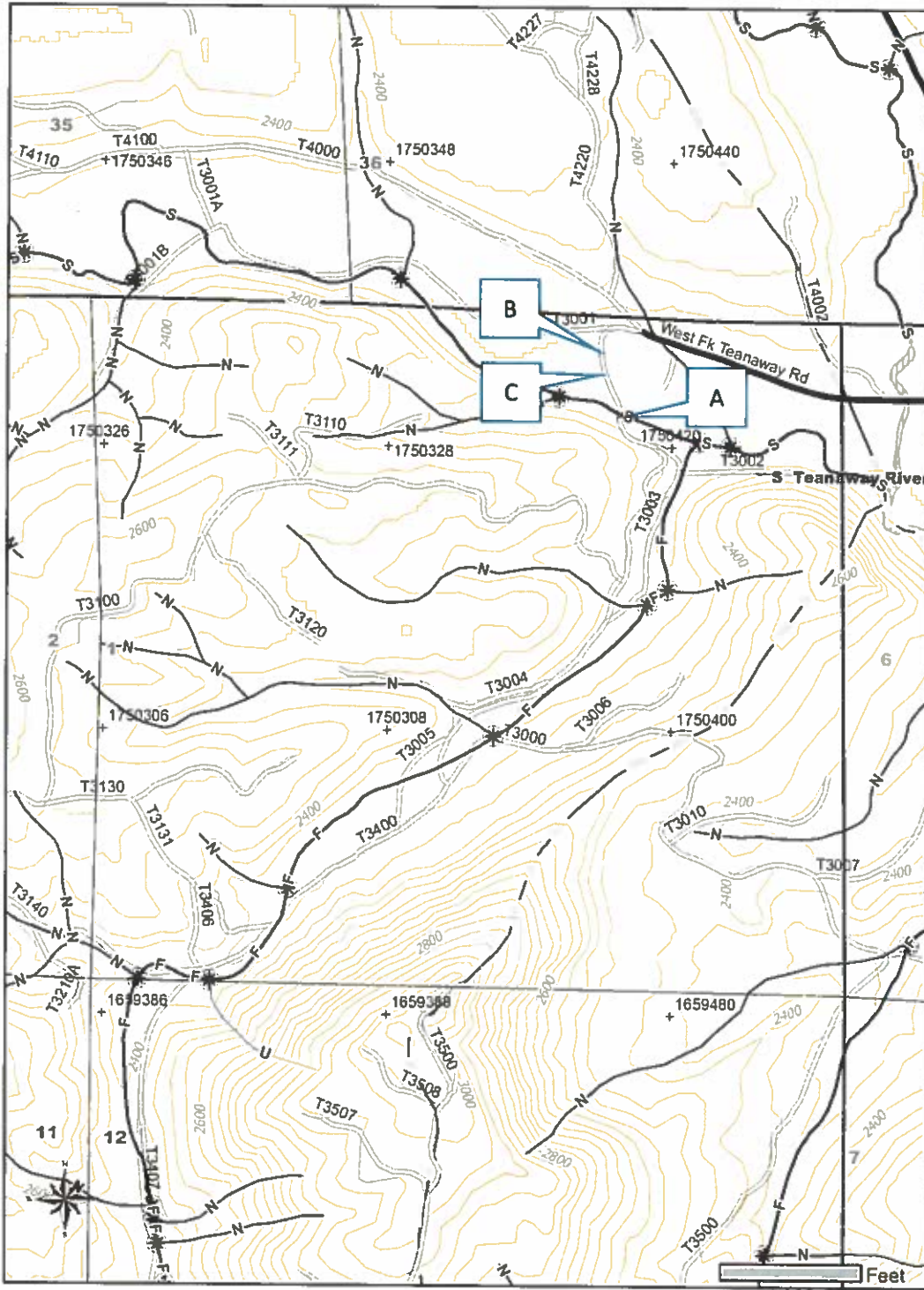
9. Briefly describe how you determined a CMZ exists, how you delineated the outer edge of the CMZ, and how you marked the outer edge of the CMZ on the ground (flagging color, paint, etc.):
 Through review of LIDAR through GIS layers, there is evidence of a swale on the north side of the West Fork Teanaway River, northwest of the existing bridge structure. This area was walked during he field review and an old high water channel was observed, approximately 8 feet in width. The extent of the width of the channel was difficult to measure since the channel is not well defined and is heavily vegetated with brush and old ponderosa pines approximately 90-100 years old. This channel has flow only during during extreme high water events.

The proposal consists of replacing the existing bridge structure. The new bridge structure elevation will be approximately 1 1/2' higher and 18' longer, increasing the hydraulic opening. The bridge approaches will be reconstructed and raised to accommodate the higher new bridge structure. No harvest is to occur with this proposal.

FOREST PRACTICE ACTIVITY MAP

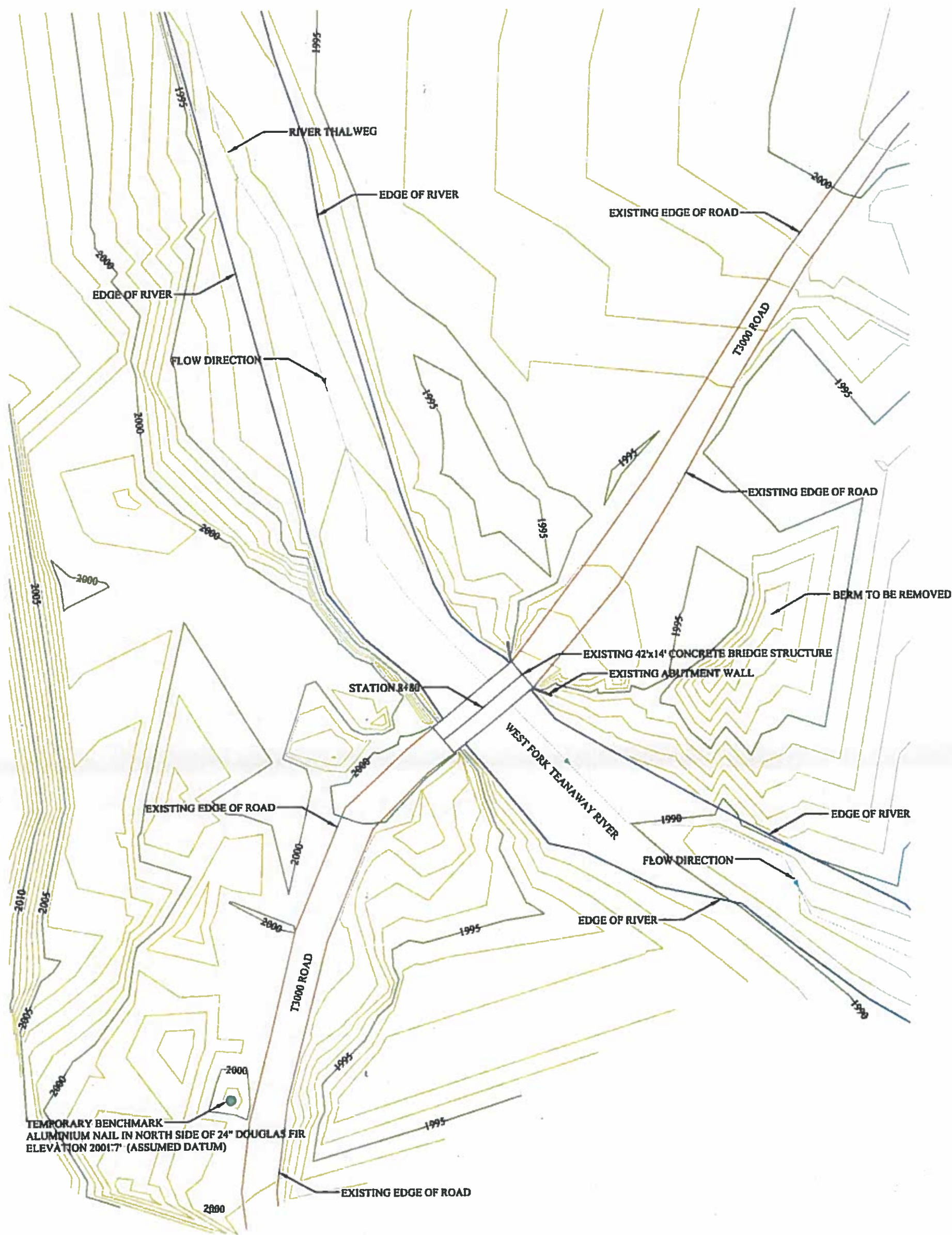
TOWNSHIP 20 NORTH HALF 0, RANGE 15 EAST (W.M.) HALF 0, SECTION 1

Application #: _____



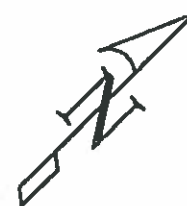
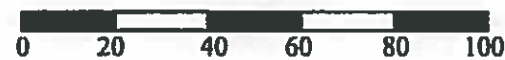
Please use the legend from the FPA instruction or provide a list of symbols used.

Date 4/4/2018 Time 1:15:07 PM
NAD 83
Contour Interval: 40 Feet



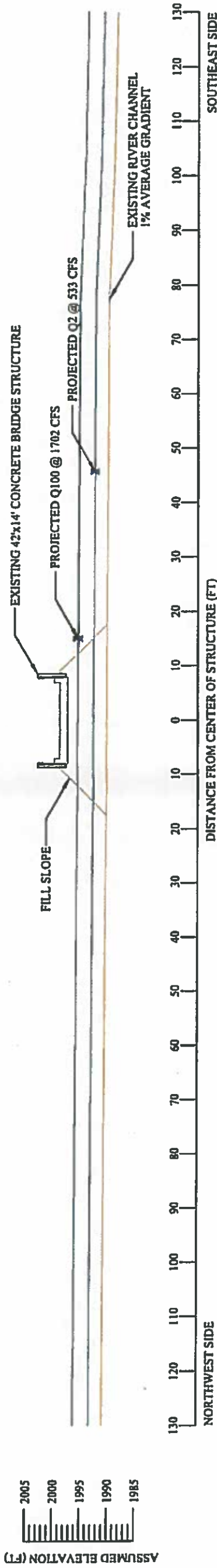
**EXISTING BRIDGE STRUCTURE
SITE PLAN VIEW**

SCALE: 1" = 40'



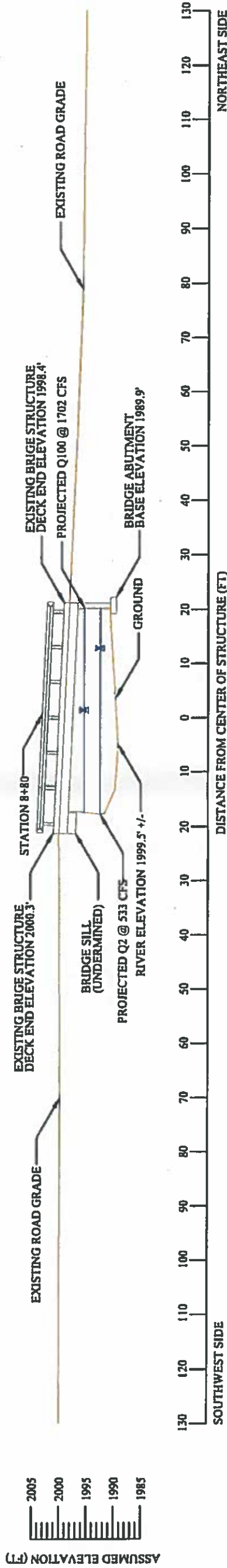
5/29/2018

WEST FORK TEANAWAY BRIDGE REPLACEMENT	
SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.	
WEST FORK TEANAWAY DRAINAGE	
TEANAWAY COMMUNITY FOREST	
T3000 ROAD	
LAT 47.258N, LONG 120.906W	
DRAWN BY:	NICHOLAS J. JONES
DESIGNED BY:	NICHOLAS J. JONES
DATE:	MAY 29, 2018
SHEET 1 OF 10	



**EXISTING RIVER PROFILE VIEW
(ALONG THALWEG)**

SCALE: 1" = 20'



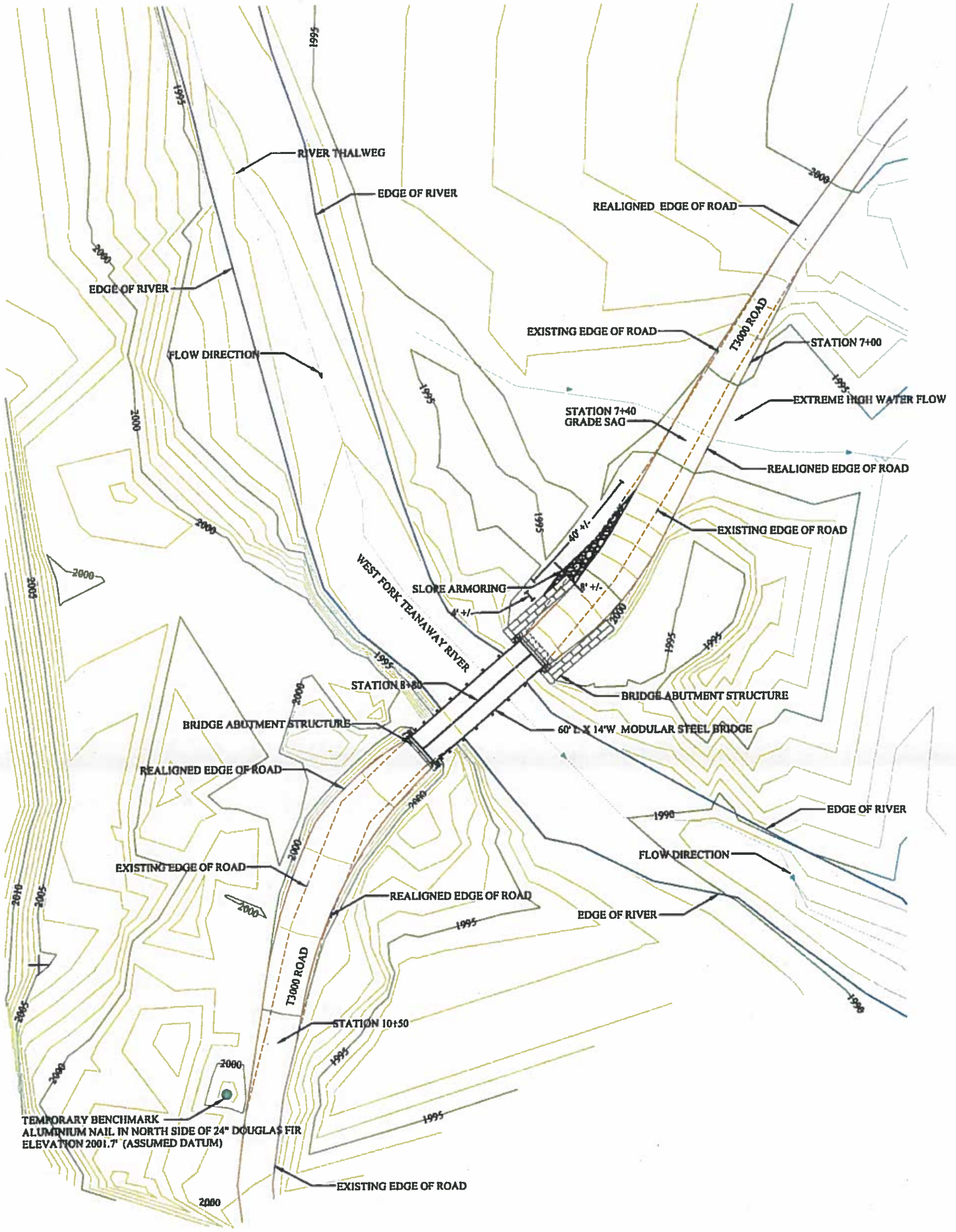
**EXISTING BRIDGE STRUCTURE CROSS SECTIONAL VIEW
LOOKING UPSTREAM**

SCALE: 1" = 20'



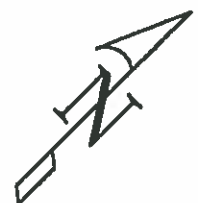
WEST FORK TEANAWAY BRIDGE REPLACEMENT	
SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.	
WEST FORK TEANAWAY DRAINAGE	
TEANAWAY COMMUNITY FOREST	
T3000 ROAD	
LAT 47.258N, LONG 120.906W	
DRAWN BY:	NICHOLAS J. JONES
DESIGNED BY:	NICHOLAS J. JONES
DATE:	MAY 29, 2018
SHEET 2 OF 10	





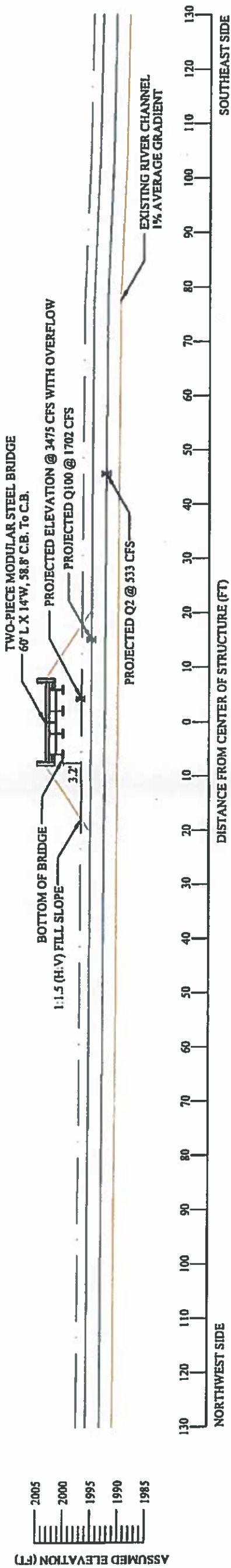
**NEW BRIDGE STRUCTURE
SITE PLAN VIEW**

SCALE: 1" = 40'



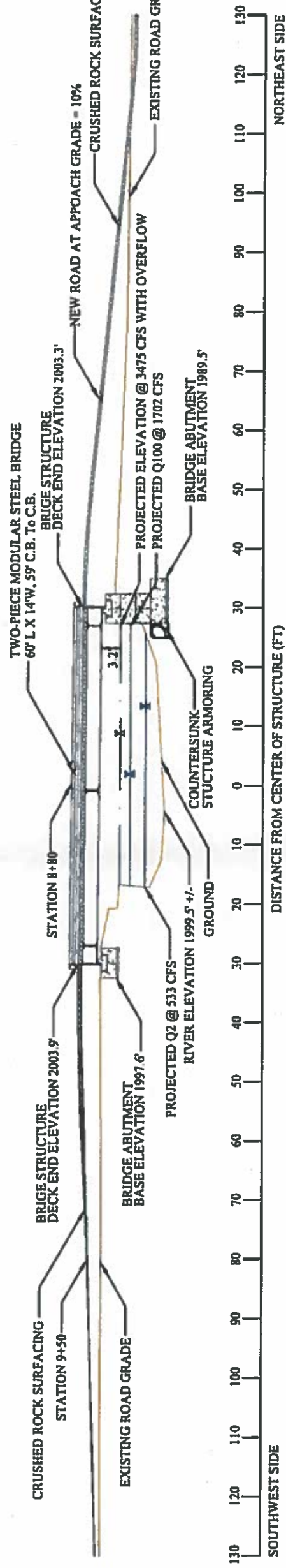
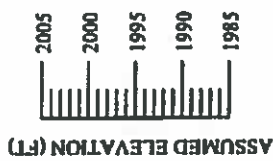
WEST FORK TEANAWAY BRIDGE REPLACEMENT	
SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.	
WEST FORK TEANAWAY DRAINAGE	
TEANAWAY COMMUNITY FOREST	
T3000 ROAD	
LAT 47.258N, LONG 120.906W	
DRAWN BY:	NICHOLAS J. JONES
DESIGNED BY:	NICHOLAS J. JONES
DATE:	MAY 29, 2018
SHEET 3 OF 10	





**PROPOSED BRIDGE STRUCTURE
RIVER PROFILE VIEW (ALONG THALWEG)**

SCALE: 1" = 20'

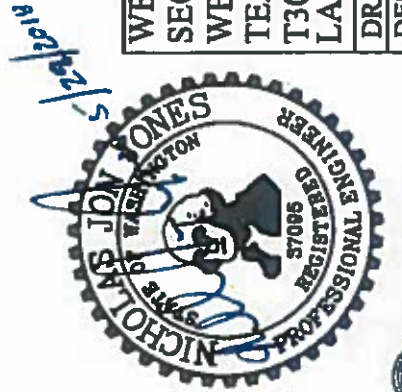


**PROPOSED BRIDGE STRUCTURE CROSS SECTIONAL VIEW
LOOKING UPSTREAM**

SCALE: 1" = 20'



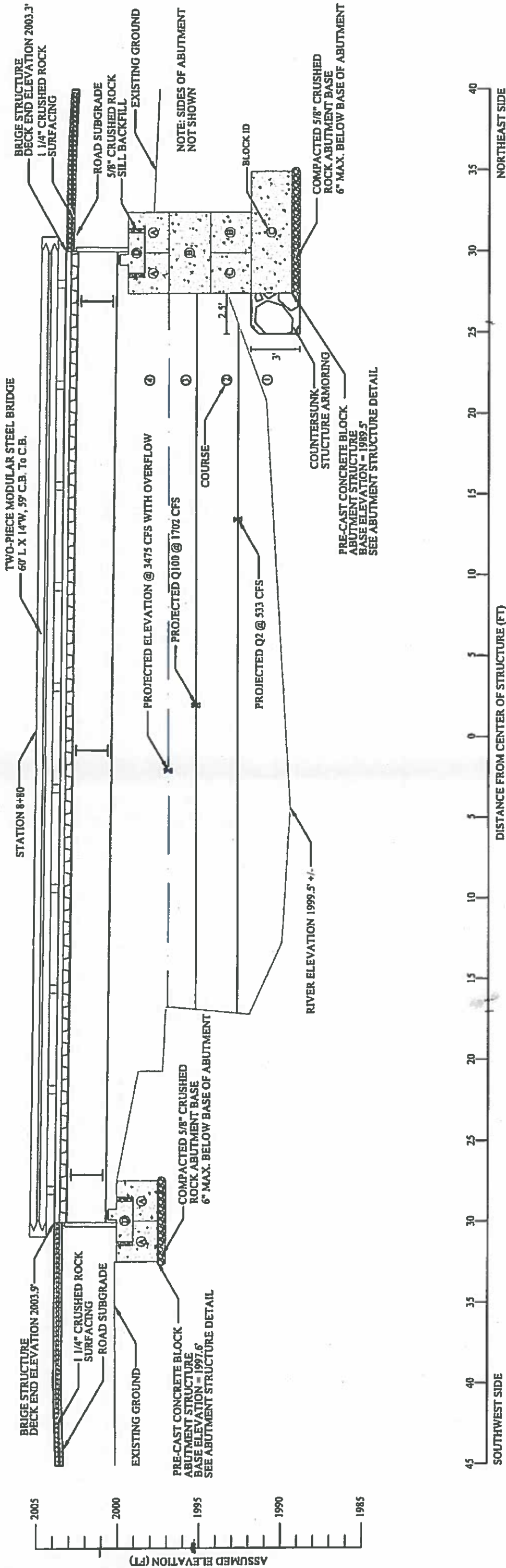
WEST FORK TEANAWAY BRIDGE REPLACEMENT
SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.
WEST FORK TEANAWAY DRAINAGE
TEANAWAY COMMUNITY FOREST
T3000 ROAD
LAT 47.258N, LONG 120.906W
DRAWN BY: NICHOLAS J. JONES
DESIGNED BY: NICHOLAS J. JONES
DATE: MAY 29, 2018
SHEET 5 OF 10



NEW BRIDGE STRUCTURE BRIDGE CROSS SECTION AT CENTERLINE

LOOKING UPSTREAM

SCALE: 1" = 6'



WEST FORK TEANAWAY BRIDGE REPLACEMENT
SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.
WEST FORK TEANAWAY DRAINAGE
TEANAWAY COMMUNITY FOREST
T3000 ROAD
LAT 47.258N, LONG 120.906W

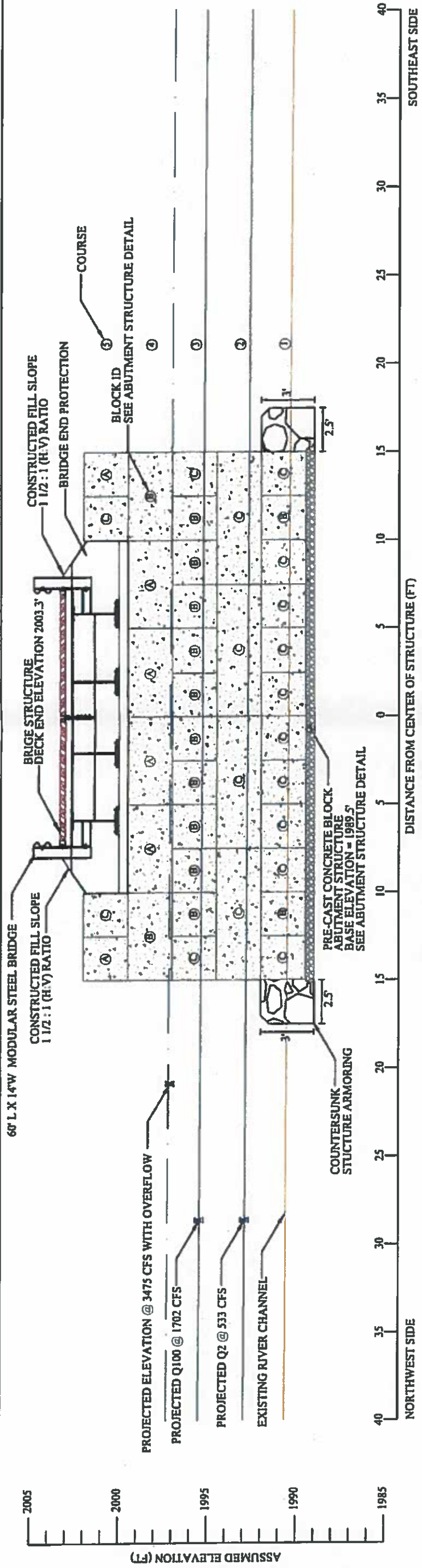
DRAWN BY: NICHOLAS J. JONES
DESIGNED BY: NICHOLAS J. JONES
DATE: MAY 29, 2018
SHEET 6 OF 10

5/29/2018



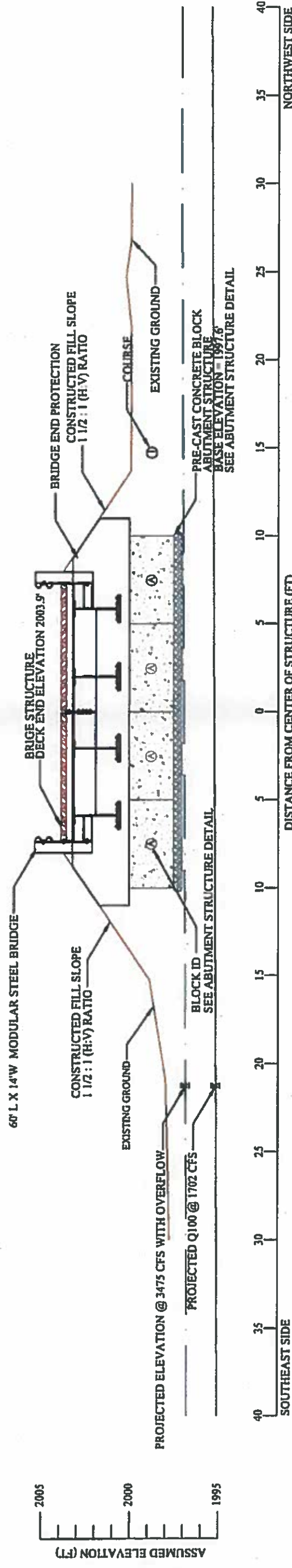
IRRATIONAL RESOURCES





NORTHEAST ABUTMENT- LOOKING NORTHEAST

SCALE: 1" = 6'



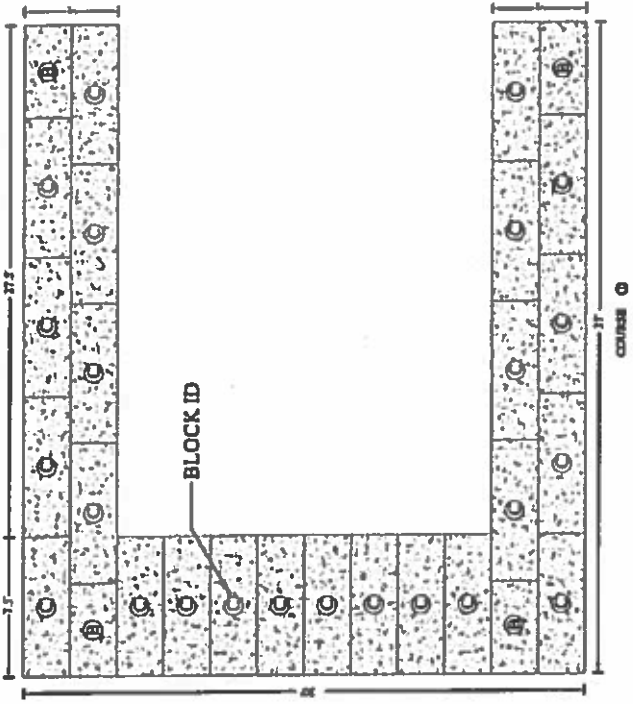
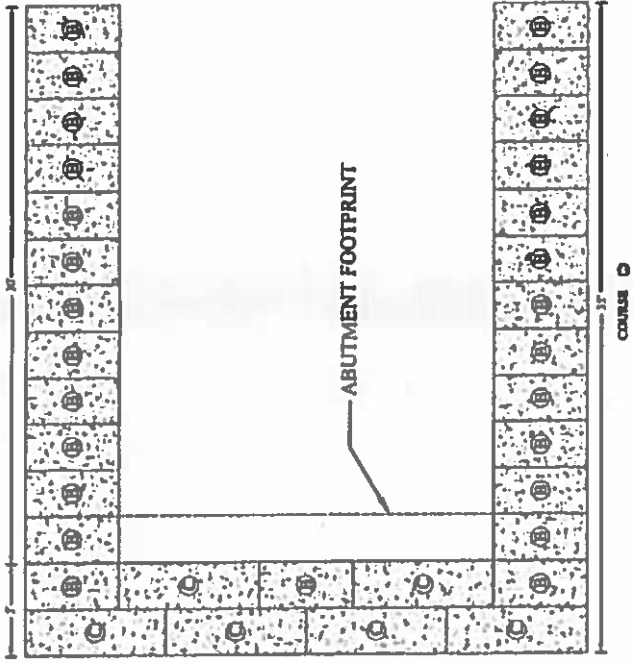
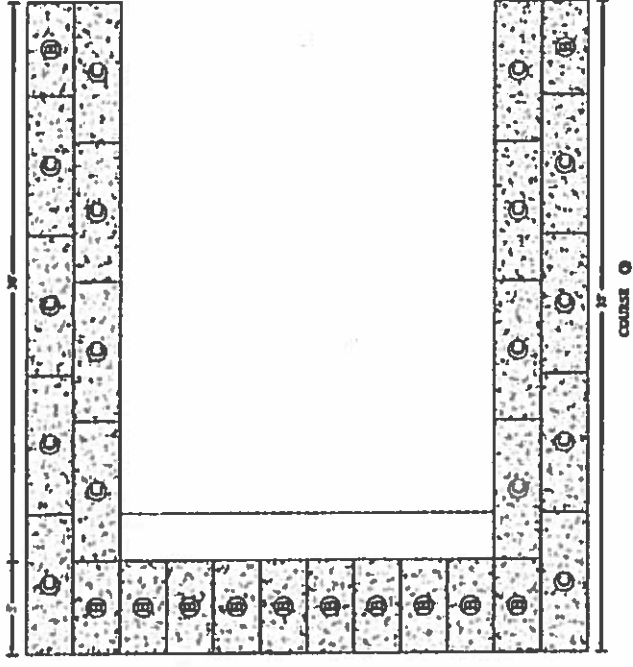
SOUTHWEST ABUTMENT- LOOKING SOUTHWEST

SCALE: 1" = 6'

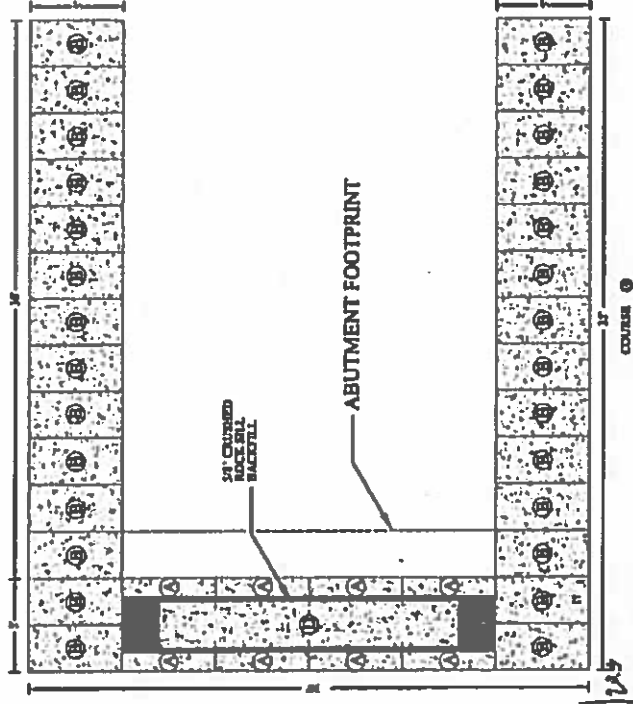
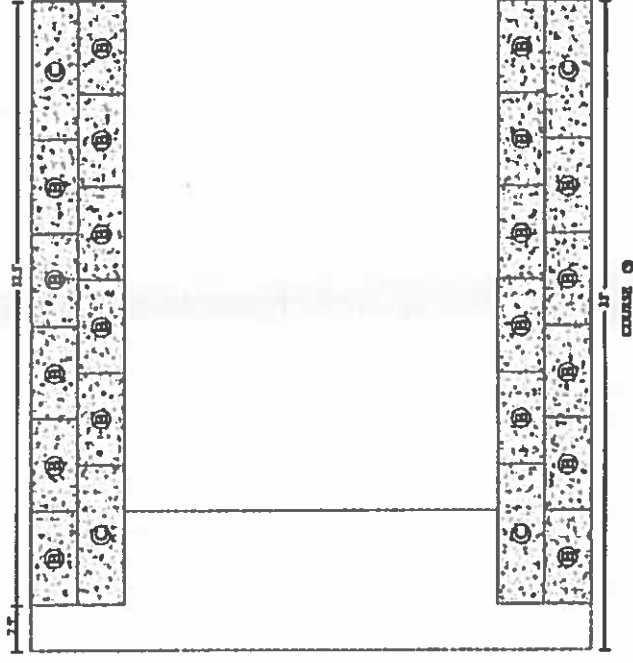


WEST FORK TEANAWAY BRIDGE REPLACEMENT
 SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.
 WEST FORK TEANAWAY DRAINAGE
 TEANAWAY COMMUNITY FOREST
 T3000 ROAD
 LAT 47.258N, LONG 120.906W
 DRAWN BY: NICHOLAS J. JONES
 DESIGNED BY: NICHOLAS J. JONES
 DATE: MAY 29, 2018
 SHEET 7 OF 10





SIDE FACING RIVER



SIDE FACING RIVER

PRE-CAST CONCRETE BLOCK
 ABUTMENT STRUCTURE DETAIL
 NORTHEAST ABUTMENT
 PLAN VIEW



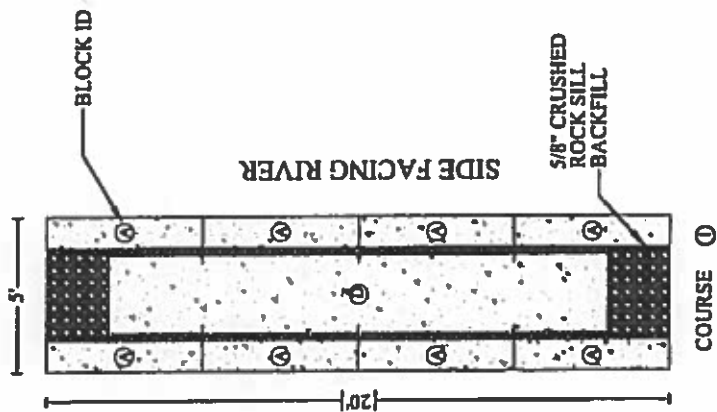
WEST FORK TEANAWAY BRIDGE REPLACEMENT
 SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.
 WEST FORK TEANAWAY DRAINAGE
 TEANAWAY COMMUNITY FOREST
 T3000 ROAD
 LAT 47.258N, LONG 120.906W

DRAWN BY: NICHOLAS J. JONES
 DESIGNED BY: NICHOLAS J. JONES
 DATE: MAY 29, 2018
 SHEET 8 OF 10



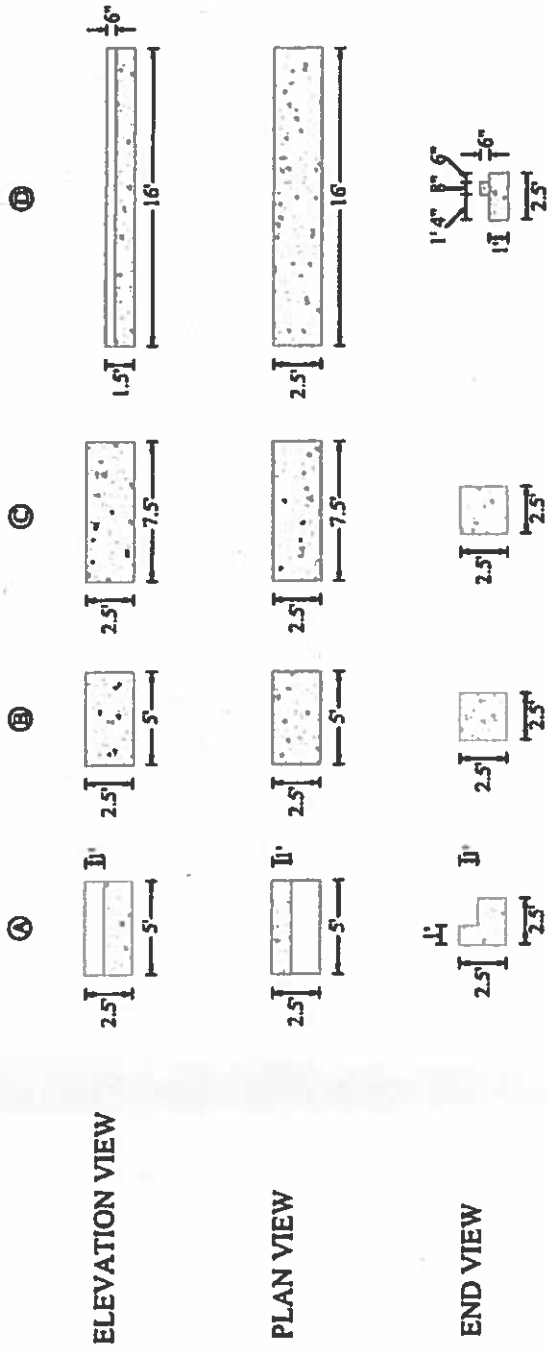
**PRE-CAST CONCRETE BLOCK
ABUTMENT STRUCTURE DETAIL
SOUTHWEST ABUTMENT**

PLAN VIEW



**PRE-CAST CONCRETE BLOCK
DIMENSION DETAIL AND LIST**

SCALE 1" = 10'



PRECAST CONCRETE BLOCK LIST:

- A - BENCH**
2.5'H x 2.5'W x 5'L WITH 1'H x 1.5'W BENCH
8 PER ABUTMENT, 16 TOTAL
- B - FULL STANDARD**
2.5'H x 2.5'W x 5'L
91 NORTHEAST ABUTMENT, 91 TOTAL
- C - 3 CROSS BEAM**
2.5'H x 2.5'W x 7.5'L
50 NORTHEAST ABUTMENT, 50 TOTAL
- D - BRIDGE SILL***
1.5'H x 2.5'W x 16'L
1 PER ABUTMENT, 2 TOTAL

NOTE: ATTACHMENT TO BRIDGE SUPERSTRUCTURE
AS PER SUPPLIER/MANUFACTURER'S DIRECTION
*SUPPLIED BY OWNER



NATURAL RESOURCES

WEST FORK TEANAWAY BRIDGE REPLACEMENT
SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.
WEST FORK TEANAWAY DRAINAGE
TEANAWAY COMMUNITY FOREST
T3000 ROAD
LAT 47.258N, LONG 120.906W

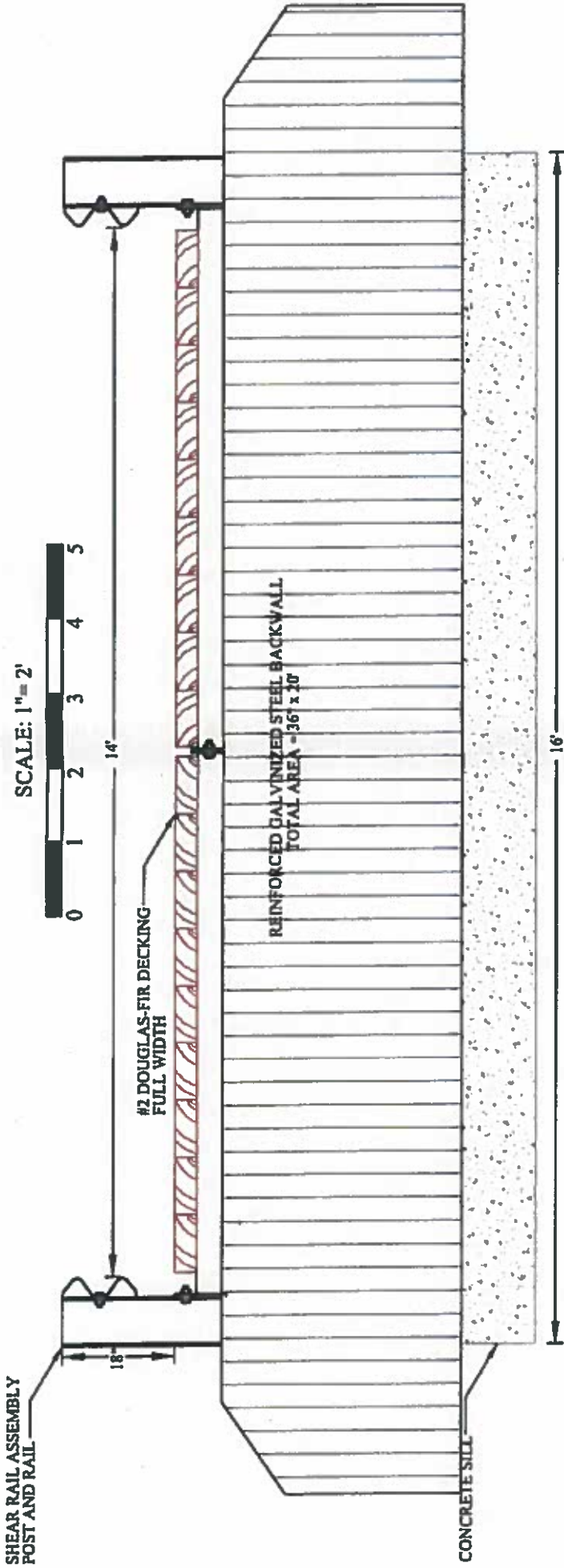
DRAWN BY: NICHOLAS J. JONES
DESIGNED BY: NICHOLAS J. JONES
DATE: MAY 29, 2018

SHEET 9 OF 10

25/2014

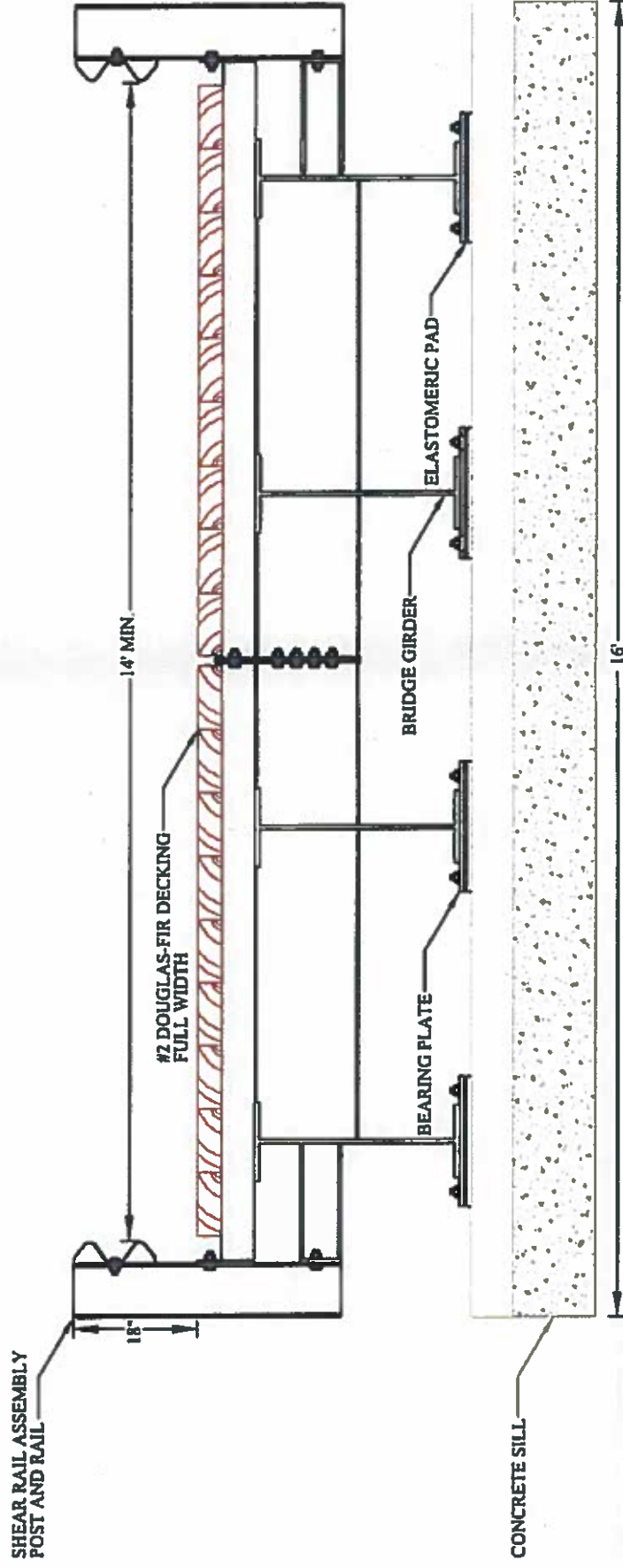
BRIDGE END DETAIL

SCALE: 1" = 2'



TCF-1 BRIDGE REPLACEMENT

WITH BACKWALL



WITHOUT BACKWALL

WEST FORK TEANAWAY BRIDGE REPLACEMENT
 SECTION 1, TOWNSHIP 20 NORTH, RANGE 15 EAST, W.M.
 WEST FORK TEANAWAY DRAINAGE
 TEANAWAY COMMUNITY FOREST
 T3000 ROAD
 LAT 47.258N, LONG 120.906W

DRAWN BY: NICHOLAS J. JONES

DESIGNED BY: NICHOLAS J. JONES

DATE: MAY 29, 2018

SHEET 10 OF 10



From: [Downes, Scott G \(DFW\)](#)
To: [GILMER, TONY \(DNR\)](#); [Early, Shane \(DNR\)](#)
Cc: [JONES, NICK \(DNR\)](#)
Subject: WDFW Comments on FPA 2706582 West Fork Teanaway Bridge
Date: Friday, September 21, 2018 11:15:39 AM

All,

WDFW has the following comments on the plans for the West Fork Teanaway Bridge Replacement, FPA 2706582. No comments on the design, the plans match what we discussed on site.

We ask that the following either be provisioned in approval or the application amended to include.

Work Window:

The application states work window would start on July 1-September 30. WDFW requests that the work window not start until July 16.

Dewatering:

If the work area for the abutments must be dewatered, the dewatered areas must be conducted for fish salvage. Salvaged fish must be placed outside of the dewatered area, downstream of the work area.

Equipment operating/crossing in the river channel:

Equipment operating within the wetted perimeter of the river must use a biodegradable, non-toxic hydraulic fluid meeting the toxicity requirements of the U. S. Environmental Protection Agency and the U.S. Fish and Wildlife Service in the equipment hydraulic systems.

Restoration:

All shoreline areas that have been disturbed must be seeded with an appropriate native seed mix and must be replanted with riparian vegetation either cuttings or potted plants.

Scott Downes

Fish & Wildlife Habitat Biologist
Washington Department of Fish and Wildlife
Region 3 Habitat Program
1701 South 24th Ave
Yakima, WA 98902-5720
Scott.Downes@dfw.wa.gov
Office-509-457-9307
Cell-509-607-3578



Forest Practices Application/Notification Notice of Decision

FPA/N No: 2706582
 Effective Date: 9/24/2018
 Expiration Date: 9/24/2021
 Shut Down Zone: 675
 EARR Tax Credit: Eligible Non-eligible
 Reference: West Fork Teanaway Bridge

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 4 years 5 years

Conditions on Approval / Reasons for Disapproval

In-water work window limited to July 16th to September 30 of any given year.

In the event there is dewatering of the work areas fish salvage must be conducted and fish placed downstream back in the river.

Equipment operating within the wetted perimeter of the river must use a biodegradable, non-toxic hydraulic fluid meeting the toxicity requirements of the U. S. Environmental Protection Agency and the U.S. Fish and Wildlife Service in the equipment hydraulic systems.

All spoils or wastes will be located outside the 100 year flood.

All disturbed soil areas or waste areas must have mitigations to prevent erosion and ponding of water. WDFW recommends seeded with an appropriate native seed mix and must be replanted with riparian vegetation either cuttings or potted plants.

Issued By: Tony W. Gilmer Region: Southeast

Title: SE FP Road Specialist Date: 9/24/2018

Copies to: Landowner, Timber Owner and Operator.

Issued in person: Landowner Timber Owner Operator By: Brenda Young

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
Southeast Region
713 Bowers Road
Ellensburg WA 98926

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.

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 website: <http://www.dnr.wa.gov/businesspermits/forestpractices>. 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 _____,	I placed in the United States mail at _____, WA,
(date)	(post office location)
postage paid, a true and accurate copy of this document. Notice of Decision FPA # _____	
_____	_____
(Printed name)	(Signature)