Invoice

Date	Invoice #
2/3/2015	78-032

BRUCE YOUNG LOGGING
FIRE DIVISION
HEPPNER, OREGON

P. O. Box 98
Heppner, OR 97836

541-676-5309

541-676-5189

Bruceyounglogging@live.com

A.H. Bar
PO BOX 1018
Heppner, Or 97836

Terms	Project
due on receipt	

Item Code	Description	Quantity	Price Each	Amount
Blocks	full	14	63.25	885.50
Blocks	half	12	40.25	483.00
hardware		1	585.00	585.00
Lowboy	2 trips X 10 Hours	20	100.00	2,000.00
Lowboy	haul Boards	6	75.00	450.00
misc	take off deck	10	80.00	800.00
misc	set blocks and bridge frame	17.5	90.00	1,575.00
misc	Put deck on	14	80.00	1,120.00
misc	boards 4X12X16	30	69.92	2,097.60

Thank You for your Business!

Total $9,996.10

Payne, Kevin - NRCS-CD, Heppner, OR

From: David and Jennifer Jaca <jaca@centurytel.net>
Sent: Tuesday, July 08, 2014 2:21 PM
To: Payne, Kevin - NRCS-CD, Heppner, OR
Subject: Fw: Funds for bridge

Kevin, have not checked with USFS, but received this note from ODFW and Oregon Department of Forestry has also let us know that they have no funds for bridge project.
Jennifer

From: Travis Schultz
Sent: Tuesday, July 01, 2014 9:47 AM
To: jaca@centurytel.net
Subject: Funds for bridge

Hi Jennifer,
Hope all is well with you and yours. I talked with our fish biologist out of Pendleton and ODFW does not have a funding source to assist with your bridge replacement on Johnson Creek.
Let me know if you have any questions.

Have a great one

Travis Schultz
Asst. District Wildlife Biologist
Oregon Dept of Fish & Wildlife
Heppner District
541-676-5230 Office
541-676-9075 Fax

Payne, Kevin - NRCS-CD, Heppner, OR

From: David and Jennifer Jaca <jaca@centurytel.net>
Sent: Wednesday, July 16, 2014 8:54 AM
To: Payne, Kevin - NRCS-CD, Heppner, OR
Subject: Fw: Bridge

Got response from USFS. Funny, firecrews needed to use the crossing a couple of days ago. Had to take long way around.
Jen

From: Niesen, Ann M -FS
Sent: Monday, July 14, 2014 1:49 PM
To: jaca@centurytel.net
Subject: Bridge

Hi Jennifer and David Jaca,
I am responding to the email you sent to us July 8th. We do not have any cost share programs available with the US Forest Service. Might be worth an inquiry at the Soil, Water and Conservation District and/or Oregon Department of Forestry. In speaking with some of my staff they also indicated that depending on the span people look into buying old rail cars. Sorry I couldn't be of further assistance.

Ann Niesen
Heppner District Ranger
541-676-2110
208-766-3002 (cell)
amniesen@fs.fed.us

OREGON DEPARTMENT OF FISH AND WILDLIFE

Fish Passage Plan for a Road-Stream Crossing

- *If you unlock and re-lock this Form, information already entered may be lost in certain versions of MS Word.*
- *If your project includes multiple crossings, please complete this form for each crossing.*

APPLICANT INFORMATION

APPLICANT: **TITLE:**
ORGANIZATION:
ADDRESS:
CITY: **STATE:** **ZIP:**
PHONE:
FAX:
E-MAIL ADDRESS:

SIGNATURE: _____ **DATE:** _____

AUTHORIZED AGENT (*if any*)**:** **TITLE:**
ORGANIZATION:
ADDRESS:
CITY: **STATE:** **ZIP:**
PHONE:
FAX:
E-MAIL ADDRESS:

SIGNATURE: _____ **DATE:** _____

OWNER (*if different than Applicant*)**:** **TITLE:**
ORGANIZATION:
ADDRESS:
CITY: **STATE:** **ZIP:**
PHONE:
FAX:
E-MAIL ADDRESS:

SIGNATURE: _____ **DATE:** _____

LOCATION

- **COUNTY** ..... Morrow
- **ROAD** .....
- **RIVER/STREAM** ..... Johnson Creek
- **TRIBUTARY OF** ..... Butter Creek
- **BASIN** .....
- **COORDINATES** [a] ..... Longitude: °W Latitude: °N
- **LEGAL DESCRIPTION** ..... ¼ / ¼:
  Section: Tax Map #:
  Township: Tax Lot #:
  Range:

[a] *geographic projection using NAD_83 and formatted as decimal degrees to at least 4 places*

STREAM CROSSING INFORMATION

Please indicate measurement units where applicable and see footnotes for supporting descriptions of the information requested.

NEW CROSSING ☐
REPLACEMENT OF EXISTING CROSSING ☐
MODIFICATION OF EXISTING CROSSING ☒

EXISTING CROSSING	• TYPE/SHAPE [b] ..... • MATERIAL [c] ..... • LENGTH..... • INSIDE DIAMETER (*if round*) ..... OR INSIDE RISE (Height) AND ..... INSIDE SPAN (Width) ..... • CULVERT SLOPE..... • DOES IT CONTROL AN UPSTREAM POND, WETLAND, BACKWATER AREA, OR WATER RIGHT? [d]..... Yes ☐ No ☒
STREAM	• AVERAGE UPSTREAM ACW [e,f]..... • AVERAGE DOWNSTREAM ACW [e,f] ..... • UPSTREAM SLOPE [g] ..... • DOWNSTREAM SLOPE [g] ..... • DESCRIBE STREAMBED MATERIAL.... • SIZE OF D_{100} ROCK [h] .....
PROPOSED CROSSING	• TYPE/SHAPE [b] ..... • MATERIAL [c] ..... • LENGTH..... • INSIDE DIAMETER (*if round*) ..... OR INSIDE RISE (Height) AND ..... INSIDE SPAN (Width) ..... • CULVERT SLOPE..... • BED HEIGHT – INLET [i,j] ..... • BED HEIGHT – OUTLET [i,k] ..... • BED SLOPE [i] ..... • BED MATERIAL [i] (*describe and/or fill in %s*).. % FINES (*dirt, silt, sand*)..... % SMALL ROCK (*½-6" diameter*) ..... % LARGE ROCK (*6"-D_{100}*) [h] ..... % OVER-SIZED ROCK (D_{150}-D_{200}) [h].... • BED PLACEMENT METHOD [i]..... • BED RETENTION MEASURES [i]..... • GRADE CONTROL MEASURES [l]..... • ADDITIONAL STRUCTURES [m] .....
CONSTRUCTION	• DATE WORK WILL BEGIN..... • DATE WORK WILL BE COMPLETED .. • DETAILS [n] .....
TE	• WILL THE CROSSING BE INSPECTED FOR Yes ☐ No ☐

	DEBRIS AND BED RETENTION (WITHIN, BELOW, AND ABOVE THE CROSSING) AT LEAST ANNUALLY AND AFTER STORM EVENTS? ..... • **IF NEEDED, WILL REMEDIAL MEASURES BE TAKEN AS SOON AS POSSIBLE? .....** Yes ☐ No ☐

[b] *e.g., bridge, open-bottomed arch, pipe arch/squashed, round, rectangular*

[c] *e.g., reinforced concrete, concrete, wood, plastic, corrugated metal, metal*

[d] *if "Yes", explain how these will be addressed in a separate attachment*

[e] *"ACW" is the active channel width, which is the stream width between the ordinary high water lines, or at the channel bankfull elevation if the ordinary high water lines are indeterminate; ordinary high water lines are not the same as the wetted width and are typically determined by changes on the bank in vegetation, changes in sediment size and/or color, water lines on the bank, trees, or leaves, or the point where debris (e.g., needles, leaves, twigs, cones) accumulation begins*

[f] *3 measurements 20 feet apart should be averaged; begin measurements approximately 10 ACWs from the inlet (upstream) or outlet (downstream) of the crossing if this distance is outside of the influence of existing artificial obstructions and prior to adjoining tributaries as you move away from the crossing (if not, take measures at locations which fulfill these requirements); indicate measurement locations on the* **Profile Design Drawing**

[g] *take measurements away from the crossing and at the point where ACW measurement begins*

[h] *D_{100} is the average diameter of the 10 largest, naturally-occurring rocks in the stream reach; $D_{150} = D_{100} \times 1.5$; $D_{200} = D_{100} \times 2$*

[i] *"bed" refers to the stream bed within or under the crossing structure*

[j] *depth of fill material or countersinking/embedding (excluding protruding over-sized rock) at the crossing's inlet*

[k] *depth of fill material or countersinking/embedding (excluding protruding over-sized rock) at the crossing's outlet*

[l] *these are measures outside of the crossing structure intended to prevent up- or downstream channel degradation, especially important to consider in locations where an existing smaller culvert is being replaced and there is the potential for upstream channel degradation (i.e., a "headcut") and associated off-site property or passage problems*

[m] *e.g., bed retention measures, weirs, baffles, trash racks, aprons, retaining walls, overflow pipes, channel restoration/scour remediation measures*

[n] *unless already described in an accompanying Department of State Lands Removal-Fill Application, include a description of a) temporary downstream passage, upstream passage, screening, and bypass measures, b) worksite isolation measures, c) fish salvage (note: an ODFW Fish Take Permit may be necessary), d) sediment and erosion control measures, and e) site restoration measures. For more details on Oregon Fill Removal Law see the Oregon Division of State Lands Removal-Fill Guide at* http://oregonstatelands.us/DSL/PERMITS/rfg.shtml .

ADDITIONAL INFORMATION

*Provide this information **only if** the bed within the proposed crossing is not as wide as the active channel width or will not be embedded.*

	High Design Flow [o]	Low Design Flow [p]
Flow [q] (cfs)		
Water Depth in Crossing (in.)		
Water Velocity in Crossing (fps)		
Water Drop [r] at Inlet (in.)		
Water Drop [r] at Outlet (in.)		
Pool Depth Below Outlet (in.)		
Water Drop [r] at Weirs/Baffles (in.)		
Pool Depth Below Weirs/Baffles (in.)		
Depth of Nappe [s] at Weirs/Baffles (in.)		

[o] *High Design Flow is the mean daily average stream discharge that is exceeded 5 percent of the time during the period when ODFW determines that native migratory fish require fish passage*

[p] *Low Design Flow is the mean daily average stream discharge that is exceeded 95 percent of the time, excluding days with no flow, during the period when ODFW determines that native migratory fish require fish passage*

[q] *attach a description of the methodology, calculations, and assumptions used to determine the high and low design flows*

[r] *drop should be measured from the upstream water surface elevation to the downstream water surface elevation*

[s] *the nappe is the water flowing over weirs/baffles*

DESIGN DRAWINGS

Please attach the following design drawings with the specified information on them.

☐ -- **PLAN**, including:
- active channel (i.e., ordinary high water or bankfull lines)
- existing crossing and additional structures
- proposed crossing and additional structures
- dimensions

☐ -- **PROFILE**, including:
- existing grade (measured at the deepest part of the stream channel from 10 ACWs downstream of the outlet [i.e., downstream end of crossing] to 10 ACWs upstream of the inlet [i.e., upstream end of crossing], at 5-foot intervals), including road
- existing crossing and additional structures
- proposed grade (measured at the deepest part of the stream channel from 10 ACWs downstream of the outlet to 10 ACWs upstream of the inlet, at 5-foot intervals), including road
- proposed crossing, bed, and additional structures
- dimensions
- location of **STREAM CHANNEL CROSS-SECTIONS** (see below), *ACW* measurements, and *Slope* measurements
- water surface elevations at high and low design flows for the proposed crossing, **if** the proposed crossing will not be as wide as the active channel width or will not be embedded

☐ -- **CROSS-SECTION OF PROPOSED CROSSING**, including bed details

☐ -- **STREAM CHANNEL CROSS-SECTIONS** *(2 cross-sections total, with one located downstream where the ACW measurements begin and one located upstream where the ACW measurements begin; measurements should be taken at 1-foot intervals perpendicular to the flow of the stream and should encompass the entire active channel plus 0.5 ACW on each side of the stream [for a total cross-section measurement of 2 x ACW]; measurements may be taken with survey equipment or by measuring the distance from a level line to the bottom of the streambed or ground)*

☐ -- **DETAILS OF ADDITIONAL STRUCTURES** *(e.g., grade control measures, bed retention measures, weirs/baffles, trash racks, aprons, retaining walls, overflow pipes, channel restoration/scour remediation measures)*

Please submit this application along with project design plans to the appropriate ODFW District Fish Biologist for the crossing's location. The Complete application can also be sent electronically to the ODFW Fish Passage Coordinator at greg.d.apke@state.or.us and send one signed original paper copy of the application to the ODFW Fish Passage Coordinator at 3406 Cherry Avenue NE, Salem, OR 97303.

• *ODFW will use the following criteria to determine the level of review required.*

For ODFW Use Only

	YES	NO	N/A
1. Is the bed within the crossing as wide as the active channel:	☐	☐	
2. Is the bed within the culvert at the same slope, and at grades continuous with, the surrounding stream:	☐	☐	
3a. If the crossing is open-bottomed, is there 3 feet of vertical clearance between the active channel width elevation and the inside top of the crossing:	☐	☐	☐
OR			
3b. If the crossing is closed-bottomed, will bed depth within the culvert be 20-50% of the crossing height:	☐	☐	☐
4. Is the bed material that will be used sufficient to assure water depth will be similar to that in the surrounding stream (i.e., will not go sub-surface prematurely):	☐	☐	
5. Are the bed material or retention measures that will be used sufficient to assure that the bed will be maintained through time:	☐	☐	
6. If the crossing is longer than 40 feet, will partially-buried, over-sized rock be placed within the crossing's bed:	☐	☐	☐
7. Will the bed within the crossing be placed during construction:	☐	☐	
8. If trash racks are present, are they above the active channel width elevation and do vertical bars have at least 9 inches of clear space between them:	☐	☐	☐
9. If there is an upstream pond, wetland, or backwater area, has its desired state after construction been determined, and have these considerations been addressed in the design:	☐	☐	☐
10. Are upstream grade control measures satisfactory:	☐	☐	
11. Are the construction timing and measures adequate based on the location:	☐	☐	
12. Are there plans to maintain the crossing:	☐	☐	

- If all answers are "Yes" or "Not Applicable", this plan is eligible for approval by an ODFW biologist.
- If any answer is "No" or there are other concerns, consult with the Fish Passage Coordinator.

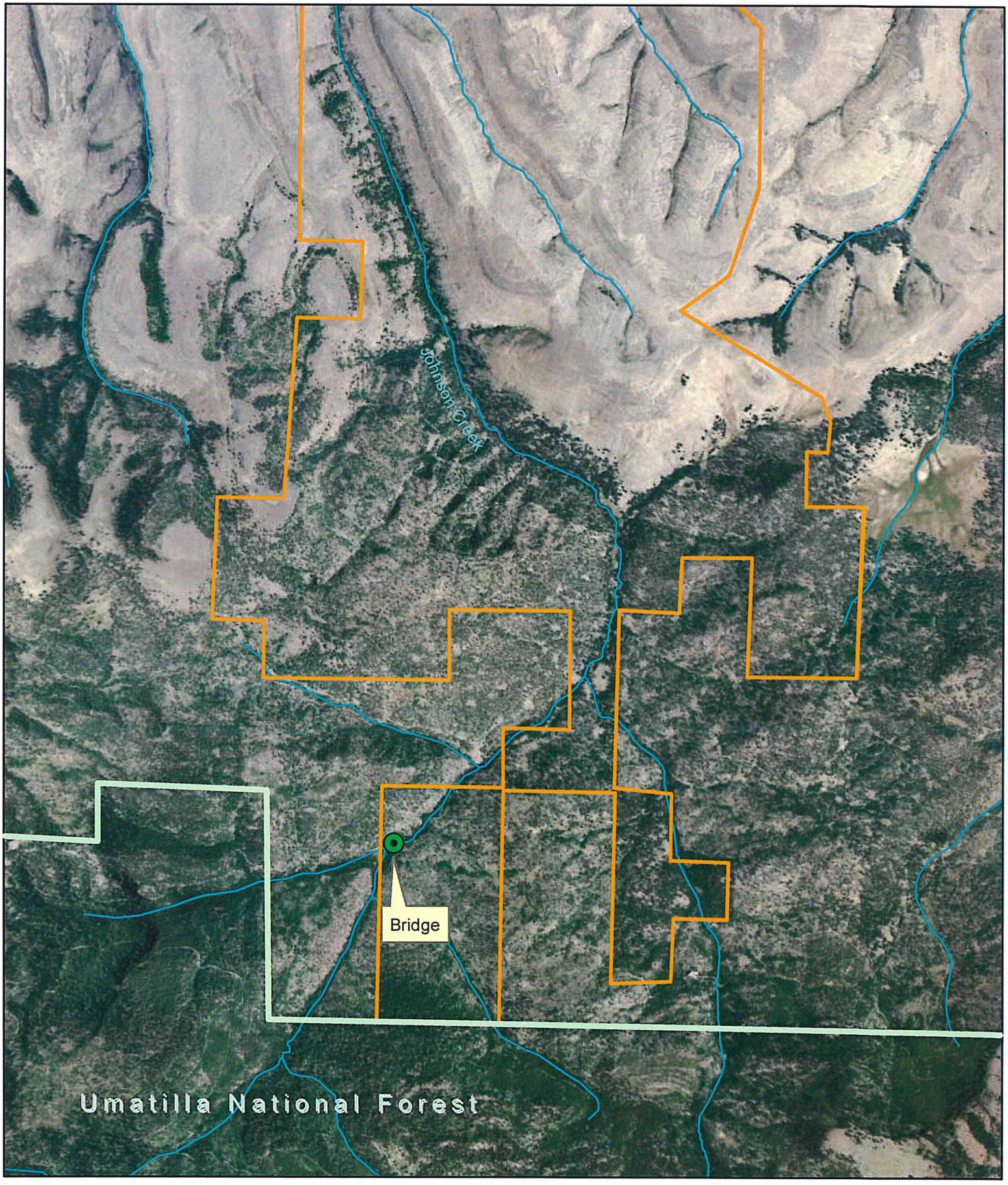
APPLICATION IDENTIFIER:
DATE RECEIVED:

APPROVED ☐ **SIGNATURE:** _____ **DATE:** _____
DENIED ☐ **TITLE:**

CONDITIONS:

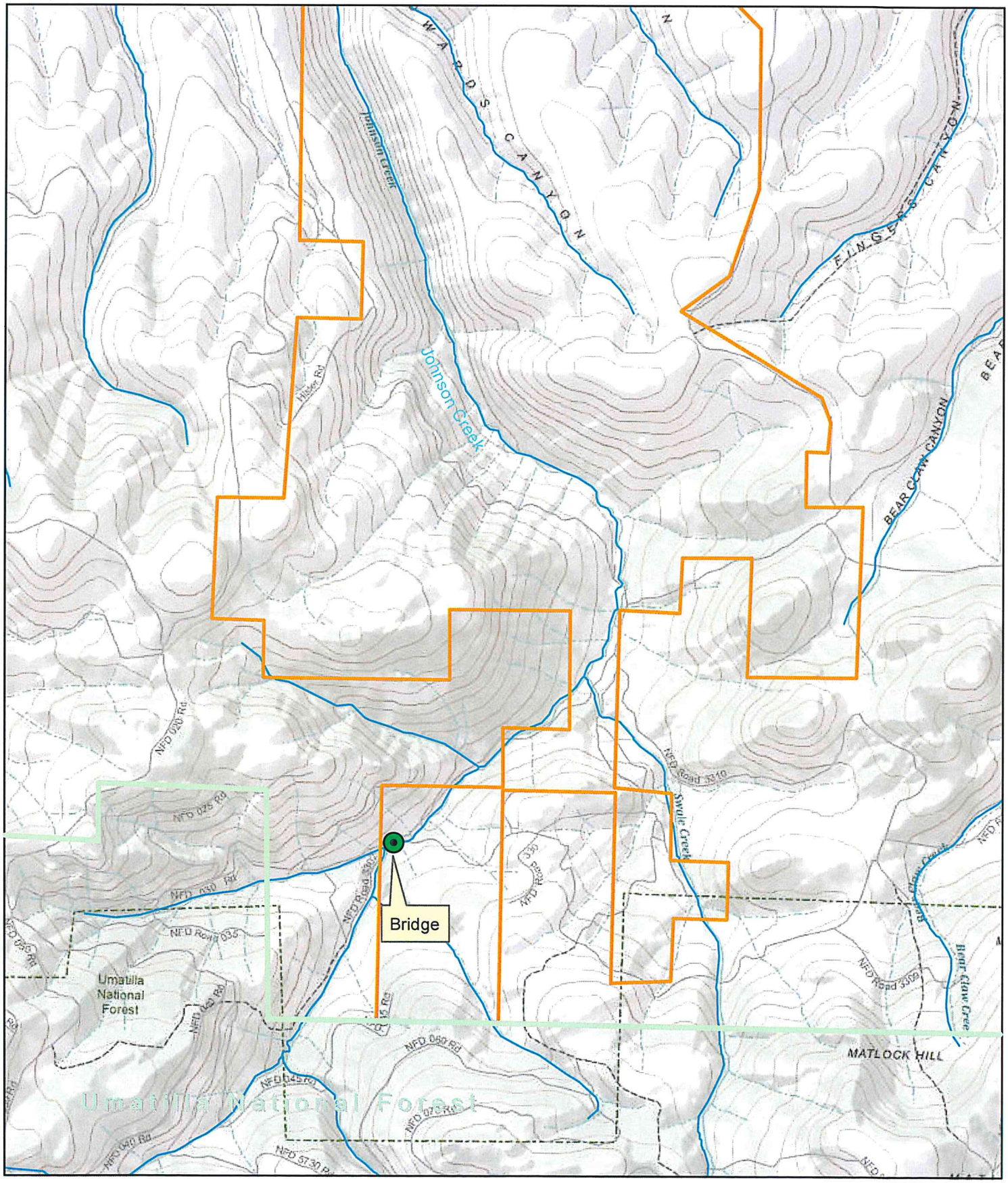
AH Bar Bridge Replacement

T 4S, R 29E section 16



AH Bar Bridge Replacement

T 4S, R 29E section 16



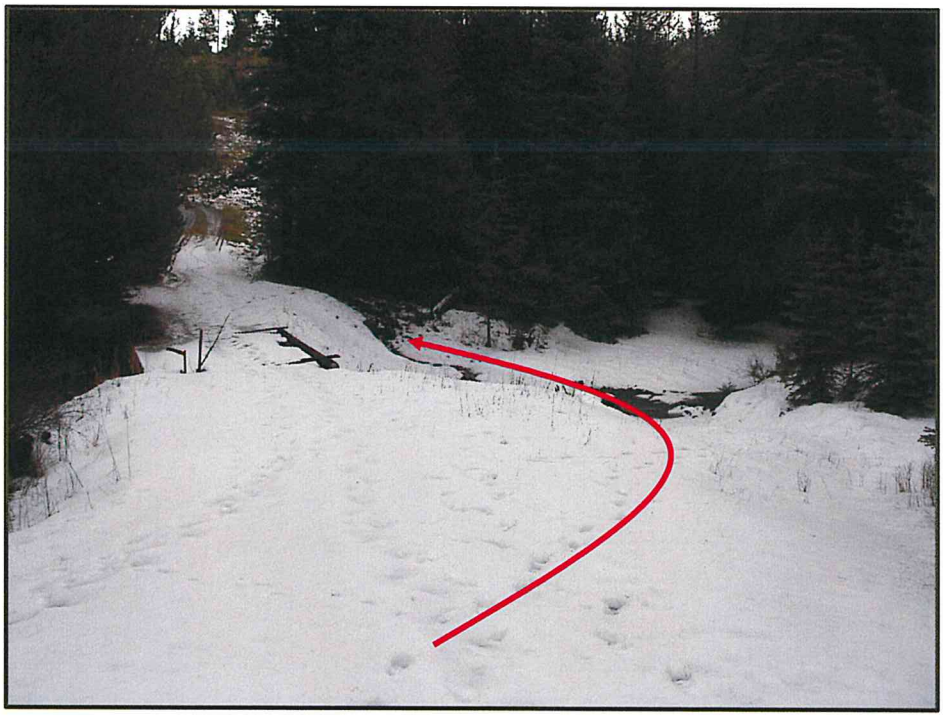
AH Bar Bridge Replacement

View of damaged decking boards.

Another view of dilapidated bridge deck.

AH Bar Bridge Replacement

Hole through the deck



View showing where vehicles have driven to the right of the bridge and through Johnson Creek