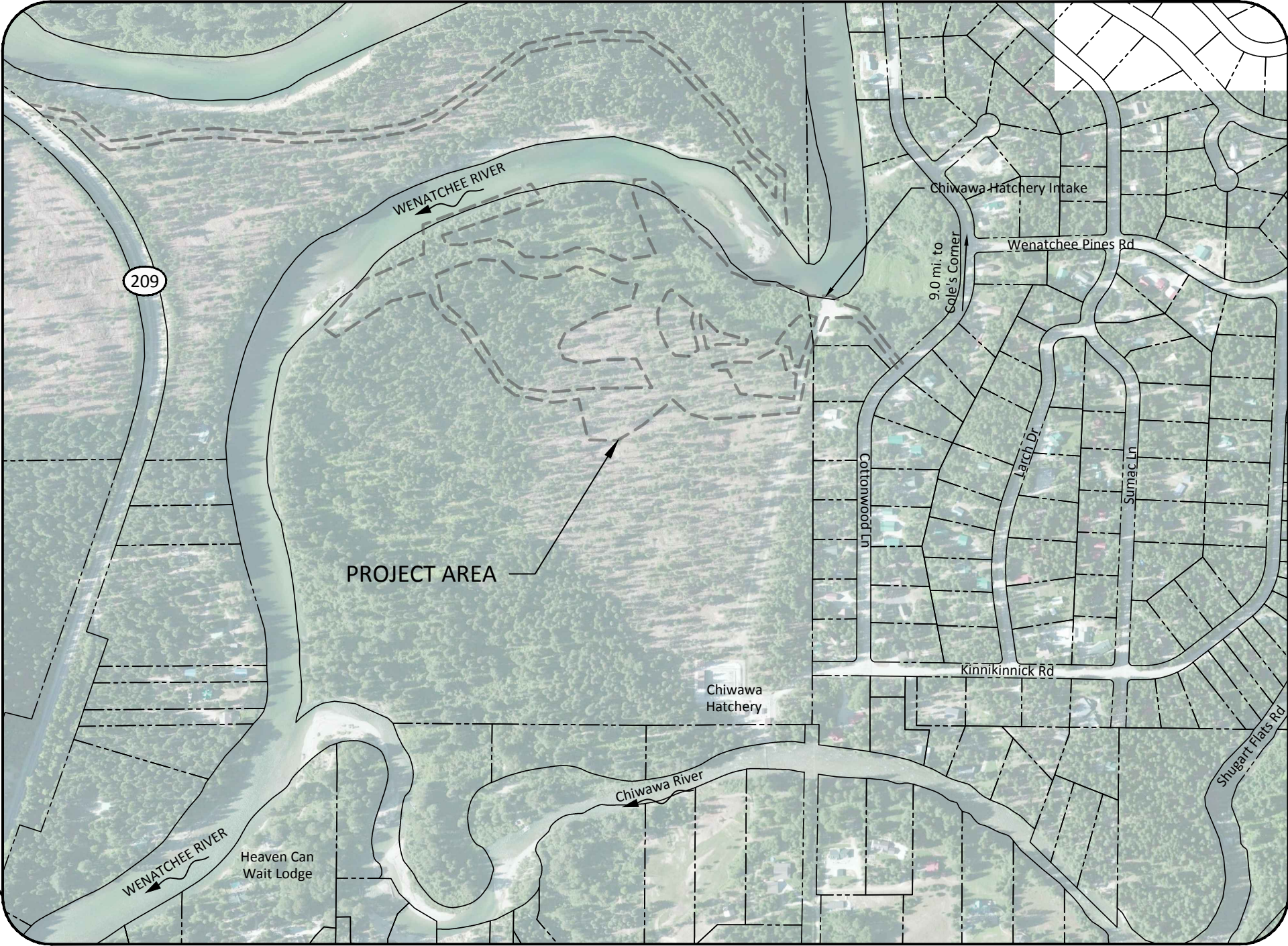
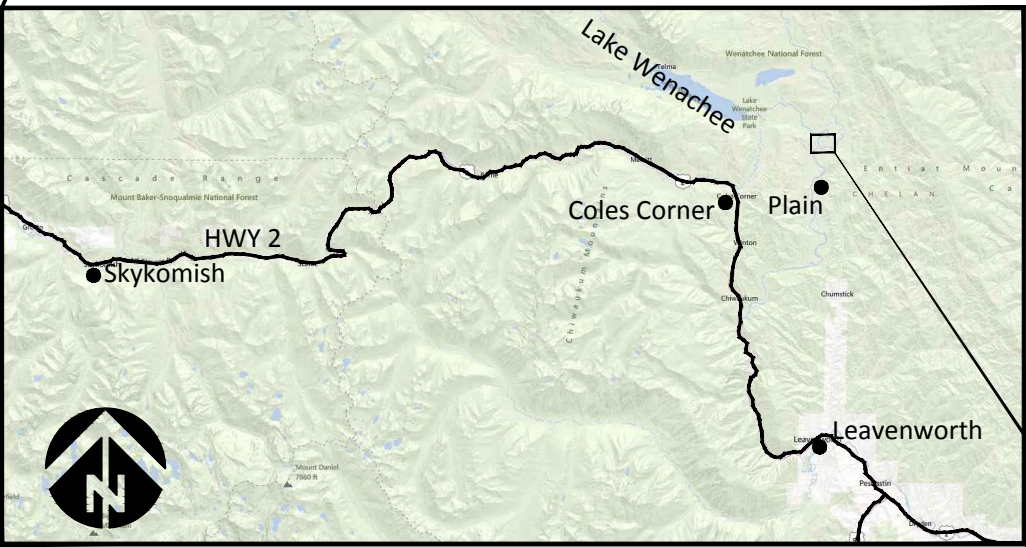
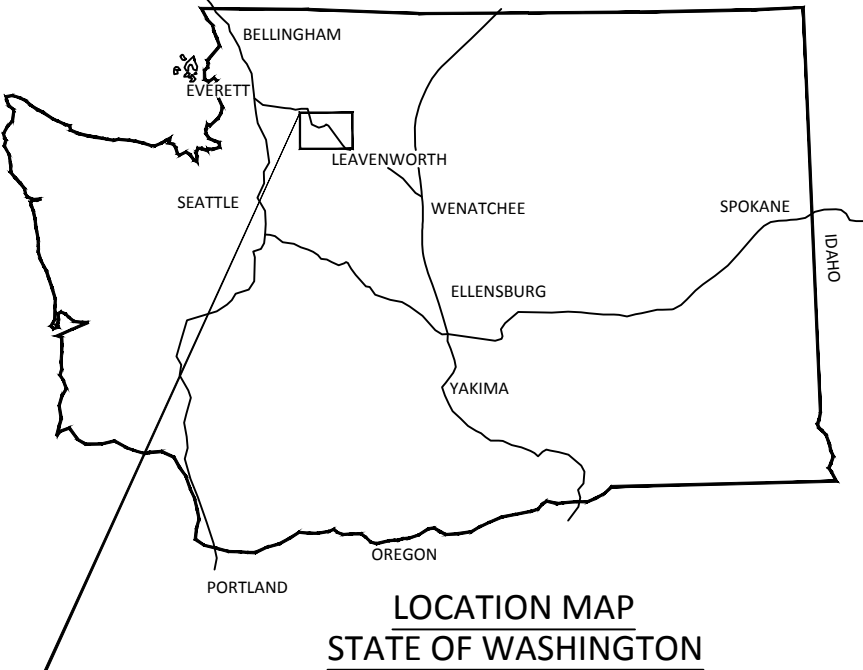


WENATCHEE RIVER - CHIWAWA FAN PROJECT CONCEPTUAL DESIGN



SHEET INDEX

- 1 COVER SHEET, VICINITY, AND SHEET INDEX
- 2 EXISTING CONDITIONS AND PROPERTY OWNERSHIP
- 3 PROPOSED CONDITIONS OVERVIEW - ACCESS, STAGING, AND SHEET KEY
- 4 PROPOSED CONDITIONS - ALTERNATIVE A: BACKWATER ENHANCEMENT
- 5 PROPOSED CONDITIONS - ALTERNATIVE B: BACKWATER ENHANCEMENT
- 6 PROPOSED CONDITIONS - ALTERNATIVE C: SIDE CHANNEL CONNECTION
- 7 PROPOSED CONDITIONS - ALTERNATIVE D: SIDE CHANNEL CONNECTION
- 8 PROPOSED CONDITIONS - ALTERNATIVE E: MAINSTEM LARGE WOOD
- 9 LWD TYPICAL DETAILS

SITE MAP

COORDINATES:
LATITUDE 47° 47' 41.12" N
LONGITUDE 120° 39' 11.84" W

SECTION 28, TOWNSHIP 27N, RANGE 17E

WATERBODY: WENATCHEE RIVER

TRIBUTARY OF: COLUMBIA RIVER



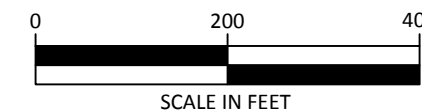
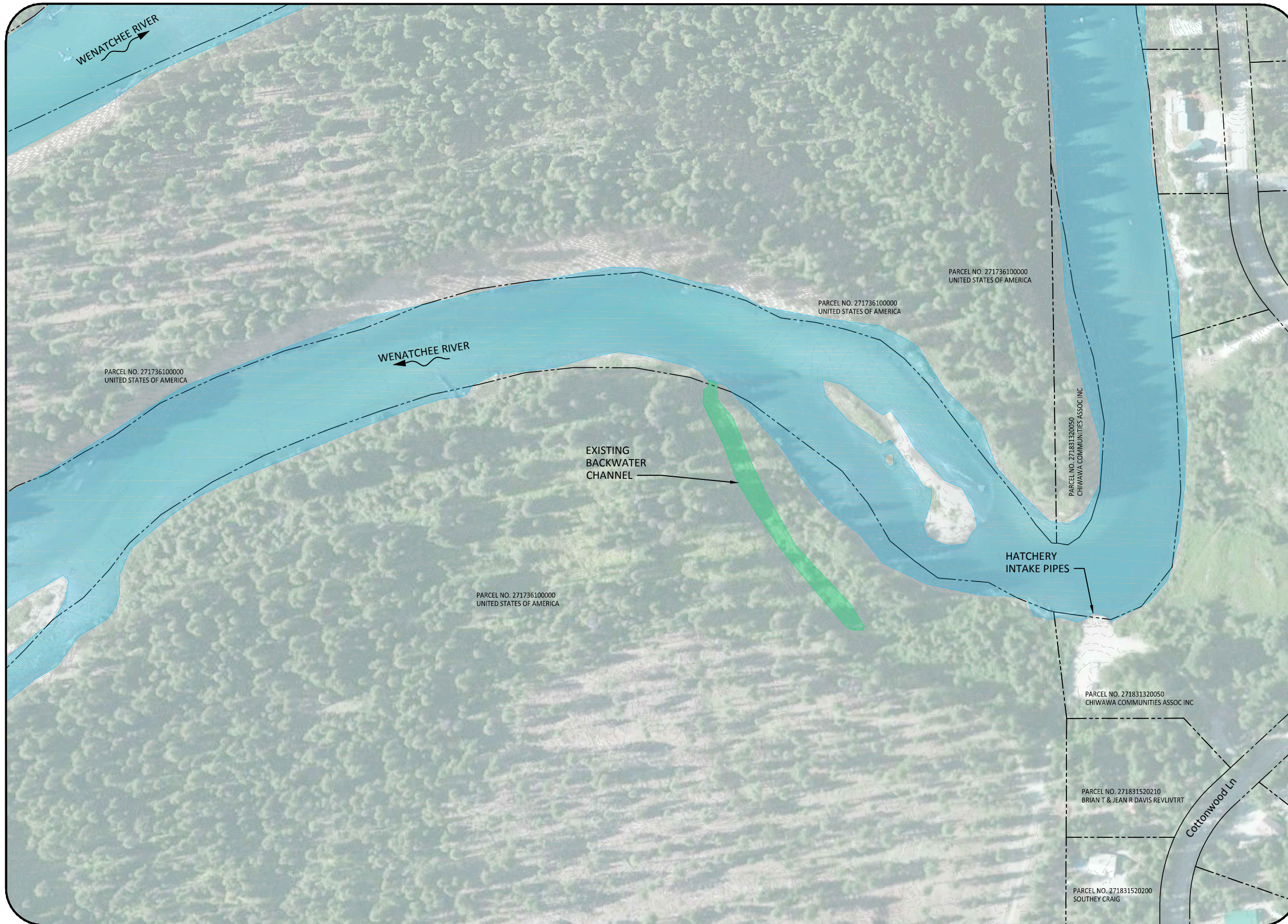
1 OF 9

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**COVER SHEET, VICINITY MAP,
AND SHEET INDEX**



LEGEND

- EXISTING CONTOURS
- PROPERTY LINES
- EXISTING CHANNEL
- HIGH FLOW BACKWATER CHANNEL

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EXISTING CONDITIONS AND
PROPERTY OWNERSHIP

2 OF 9

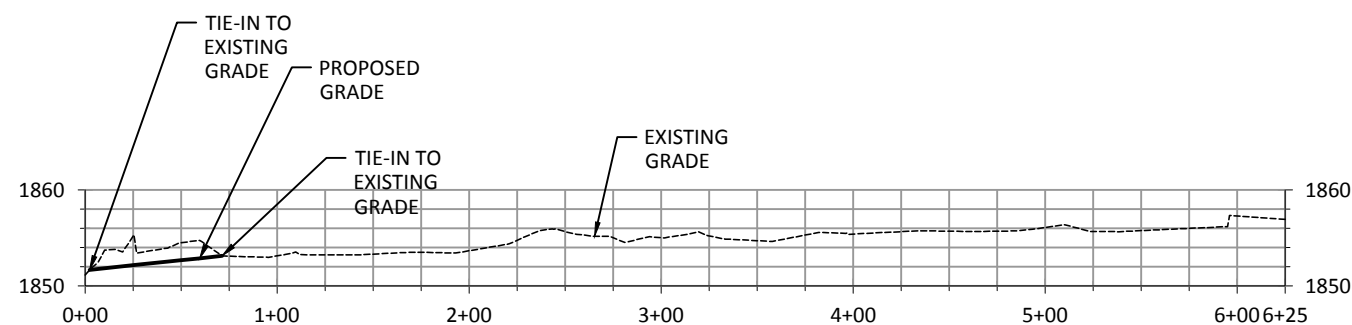


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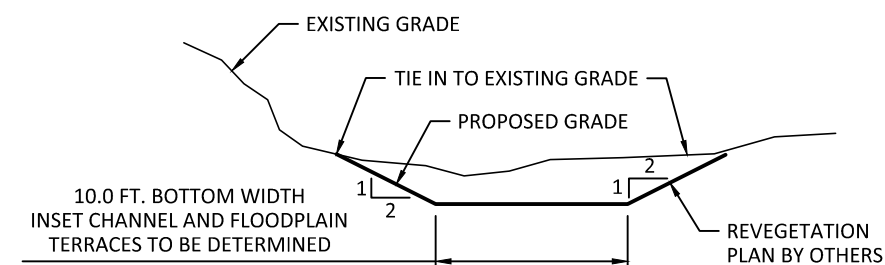
- EXISTING CONTOURS (1-FT INTERVAL)
- PROPOSED CONTOURS (1-FT INTERVAL)
- LIMITS OF DISTURBANCE
- EXISTING CHANNEL
- EXISTING HIGH FLOW BACKWATER CHANNEL
- PROPOSED CHANNEL
- PROPOSED CENTERLINE ALIGNMENT
- TEMPORARY ACCESS ROAD

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PLAN VIEW - ALTERNATIVE A: BACKWATER ENHANCEMENT



PROFILE VIEW - ALTERNATIVE A: EXISTING BACKWATER



PROPOSED BACKWATER OUTLET
TYPICAL CROSS SECTION

1
4

NOT TO SCALE

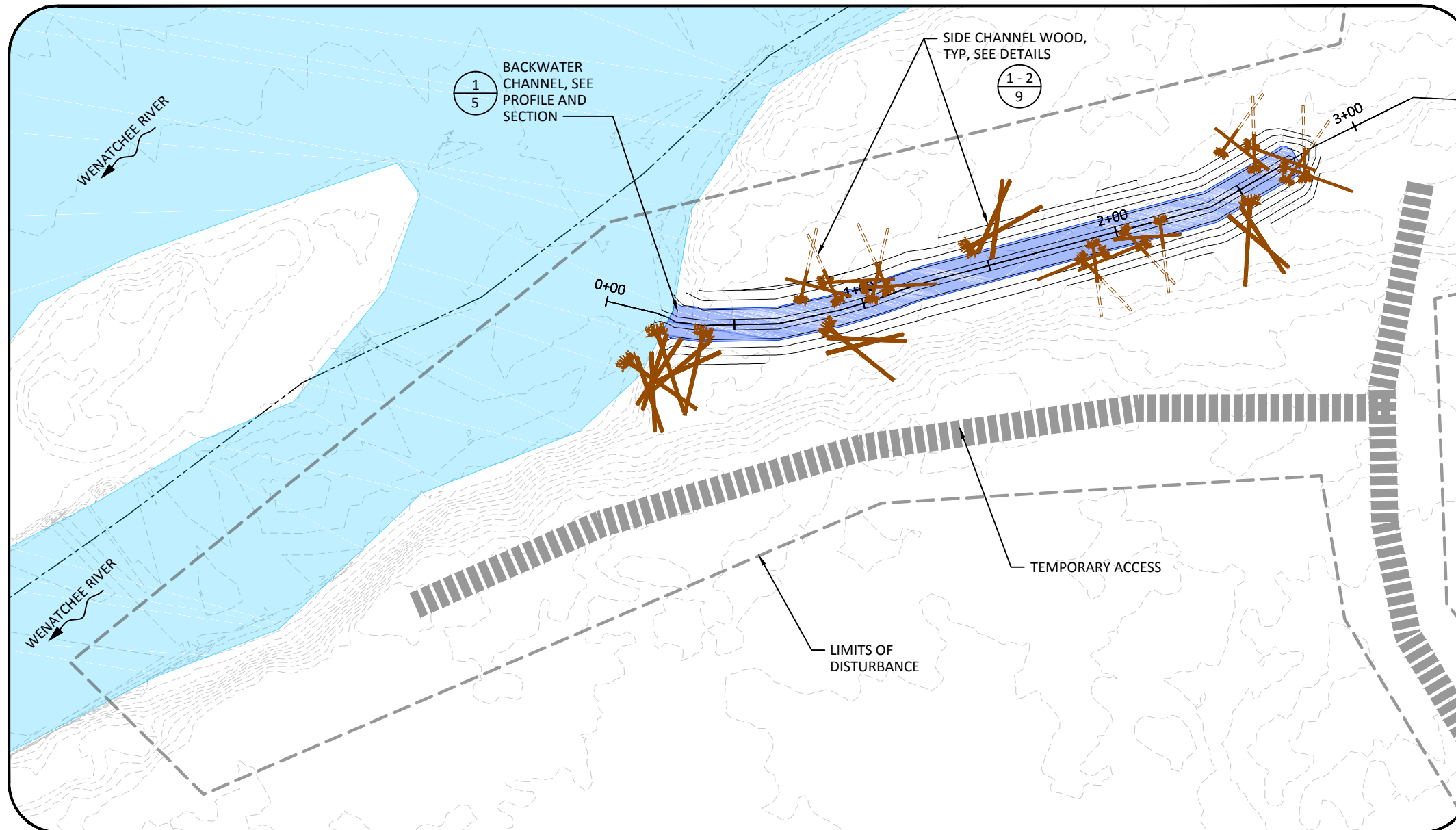
4 OF 9

SCALE: 1" = 20'
5x VERTICAL EXAGGERATION
SCALE: 1" = 100'

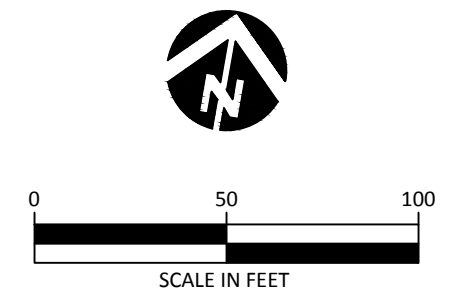


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**PROPOSED CONDITIONS
ALTERNATIVE A:
BACKWATER ENHANCEMENT**

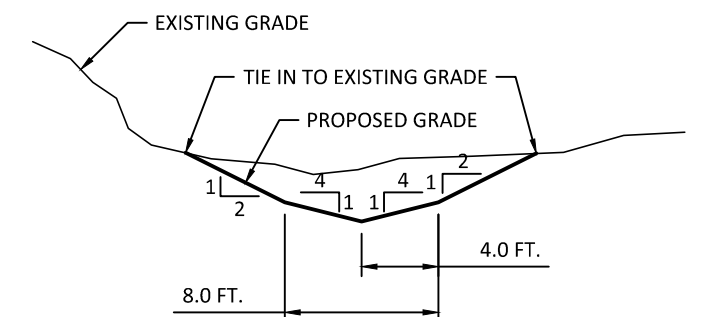


PLAN VIEW - ALTERNATIVE B: BACKWATER ENHANCEMENT

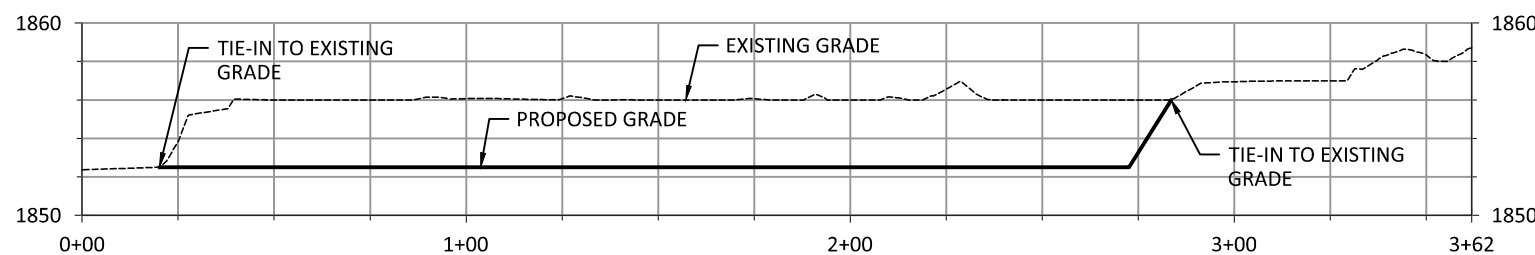


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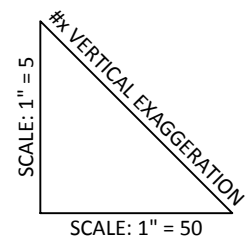
- EXISTING CONTOURS (1-FT INTERVAL)
- PROPOSED CONTOURS (1-FT INTERVAL)
- LIMITS OF DISTURBANCE
- EXISTING CHANNEL
- PROPOSED CHANNEL
- PROPOSED CENTERLINE ALIGNMENT
- TEMPORARY ACCESS ROAD



PROPOSED BACKWATER
TYPICAL CROSS SECTION
1/5 NOT TO SCALE



PROFILE VIEW - ALTERNATIVE B: BACKWATER ENHANCEMENT

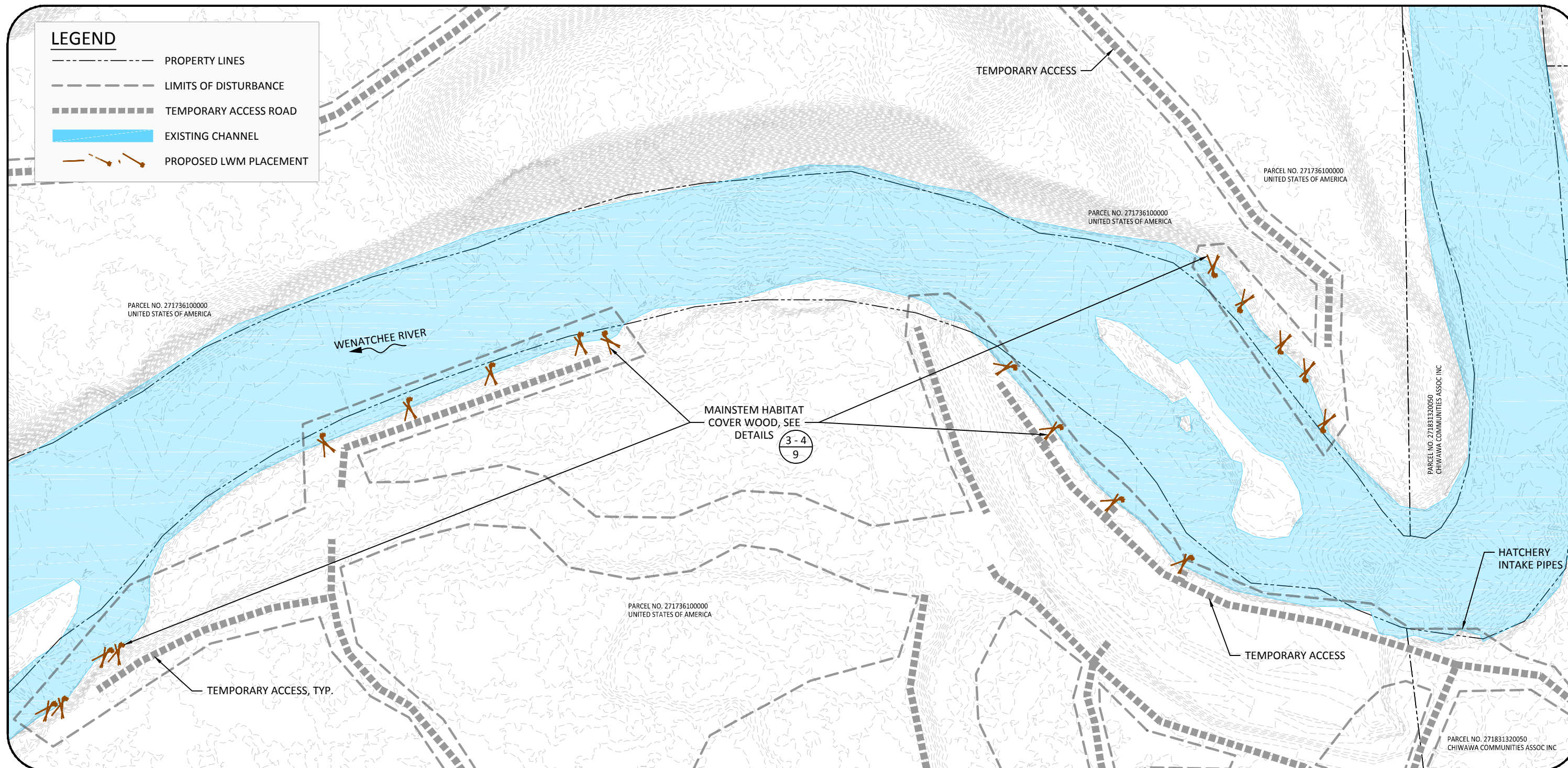


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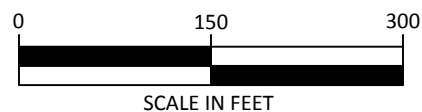


LEGEND

- PROPERTY LINES
- LIMITS OF DISTURBANCE
- TEMPORARY ACCESS ROAD
- EXISTING CHANNEL
- PROPOSED LWM PLACEMENT



PLAN VIEW - ALTERNATIVE E: MAINSTEM LARGE WOOD

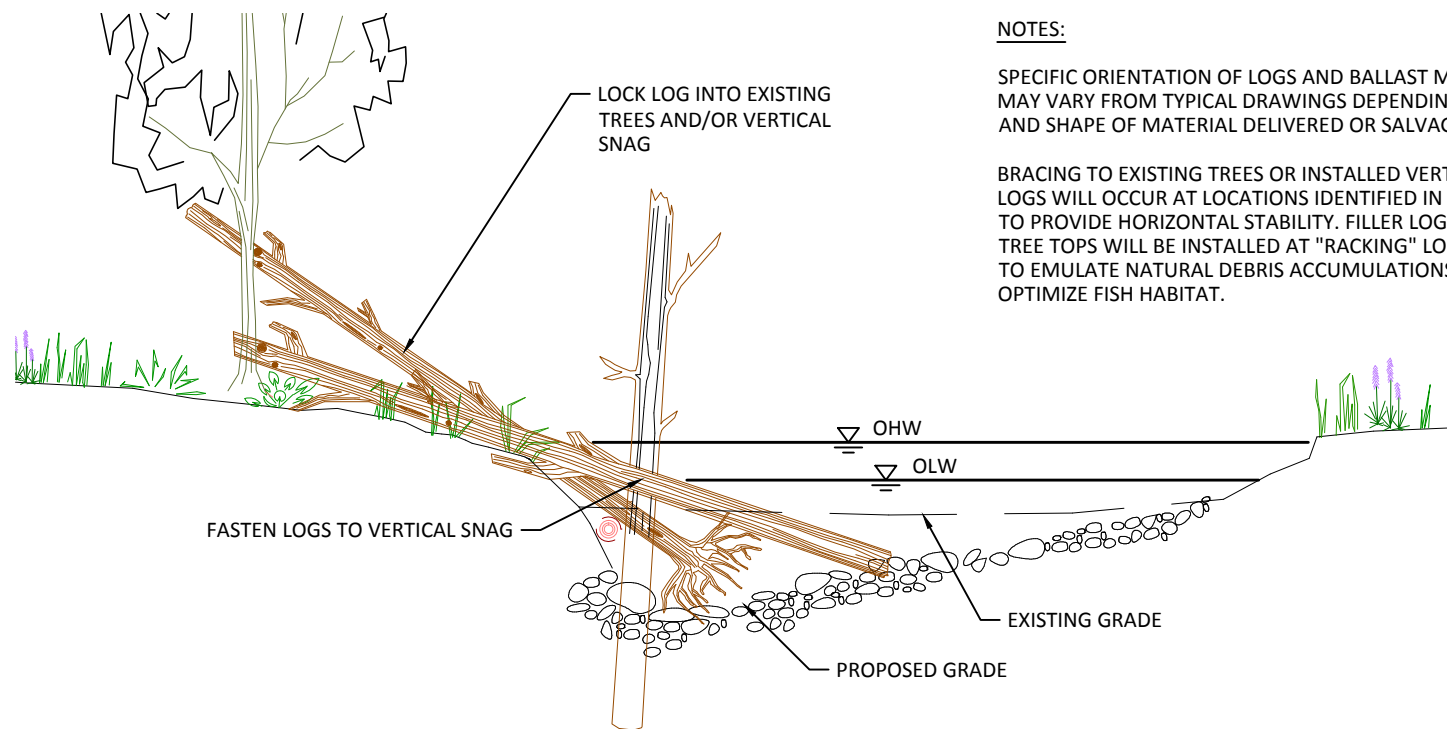


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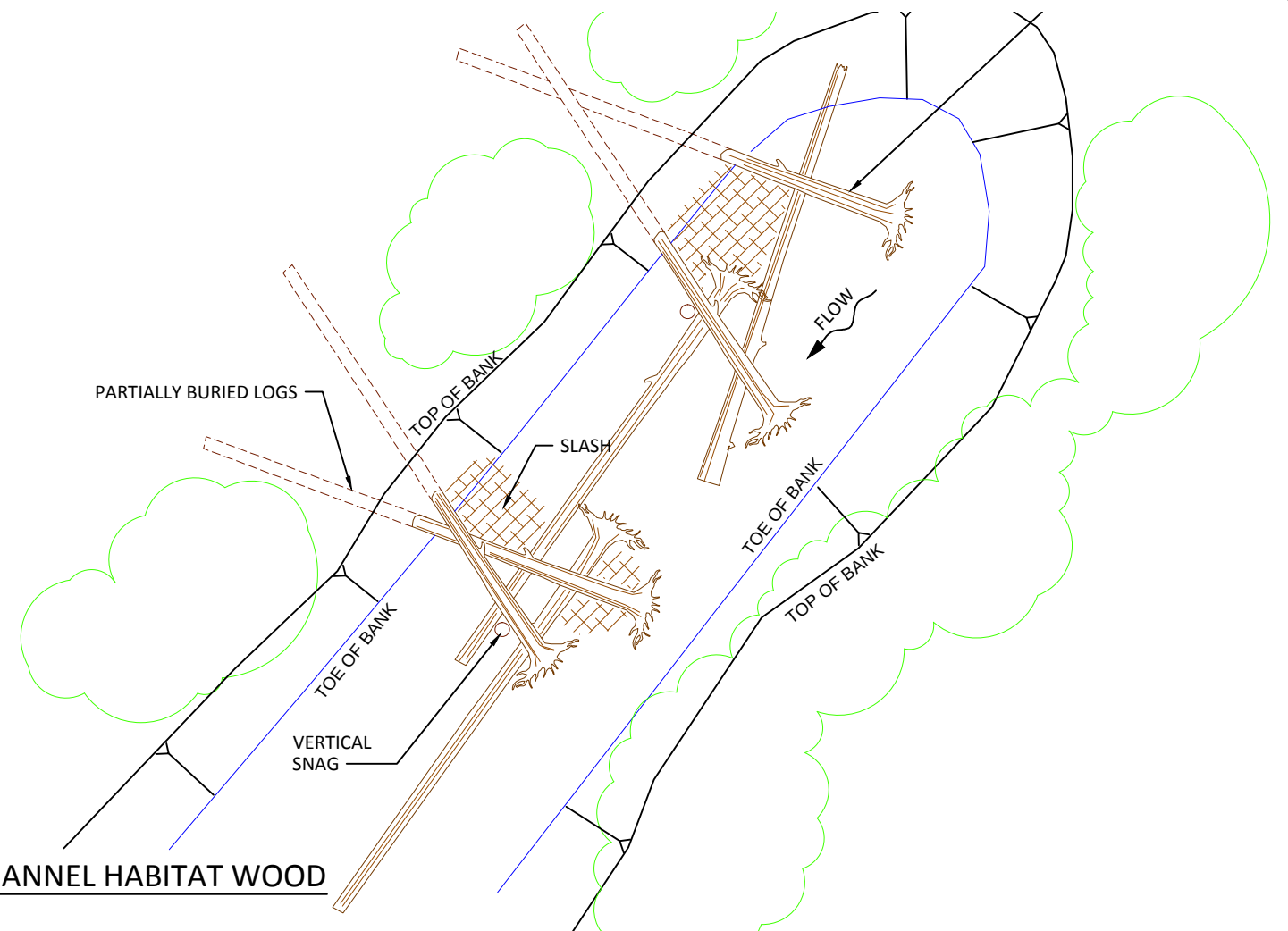
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**PROPOSED CONDITIONS
ALTERNATIVE E: MAINSTEM
LARGE WOOD**

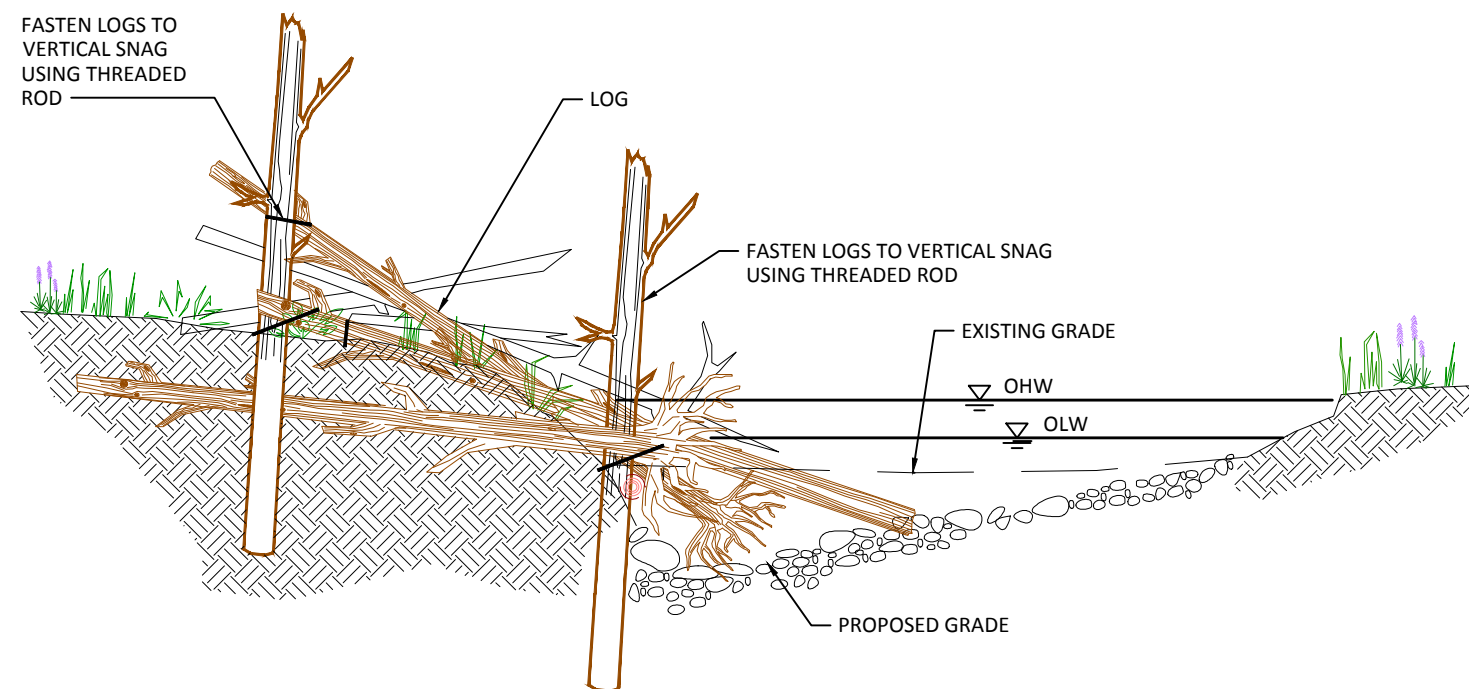


1
9 SECTION - TYPICAL SIDE CHANNEL HABITAT WOOD
NOT TO SCALE

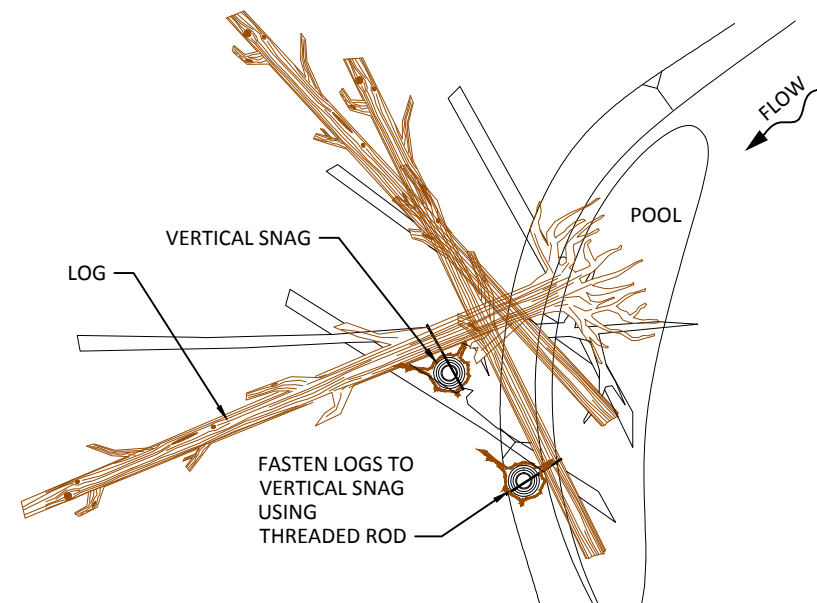
NOTES:
SPECIFIC ORIENTATION OF LOGS AND BALLAST MATERIALS MAY VARY FROM TYPICAL DRAWINGS DEPENDING ON SIZE AND SHAPE OF MATERIAL DELIVERED OR SALVAGED.
BRACING TO EXISTING TREES OR INSTALLED VERTICAL LOGS WILL OCCUR AT LOCATIONS IDENTIFIED IN THE FIELD TO PROVIDE HORIZONTAL STABILITY. FILLER LOGS AND TREE TOPS WILL BE INSTALLED AT "RACKING" LOCATIONS TO EMULATE NATURAL DEBRIS ACCUMULATIONS AND TO OPTIMIZE FISH HABITAT.



2
9 PLAN - TYPICAL SIDE CHANNEL HABITAT WOOD
NOT TO SCALE



3
9 SECTION - TYPICAL HABITAT COVER WOOD
NOT TO SCALE



4
9 PLAN - TYPICAL HABITAT COVER WOOD
NOT TO SCALE

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