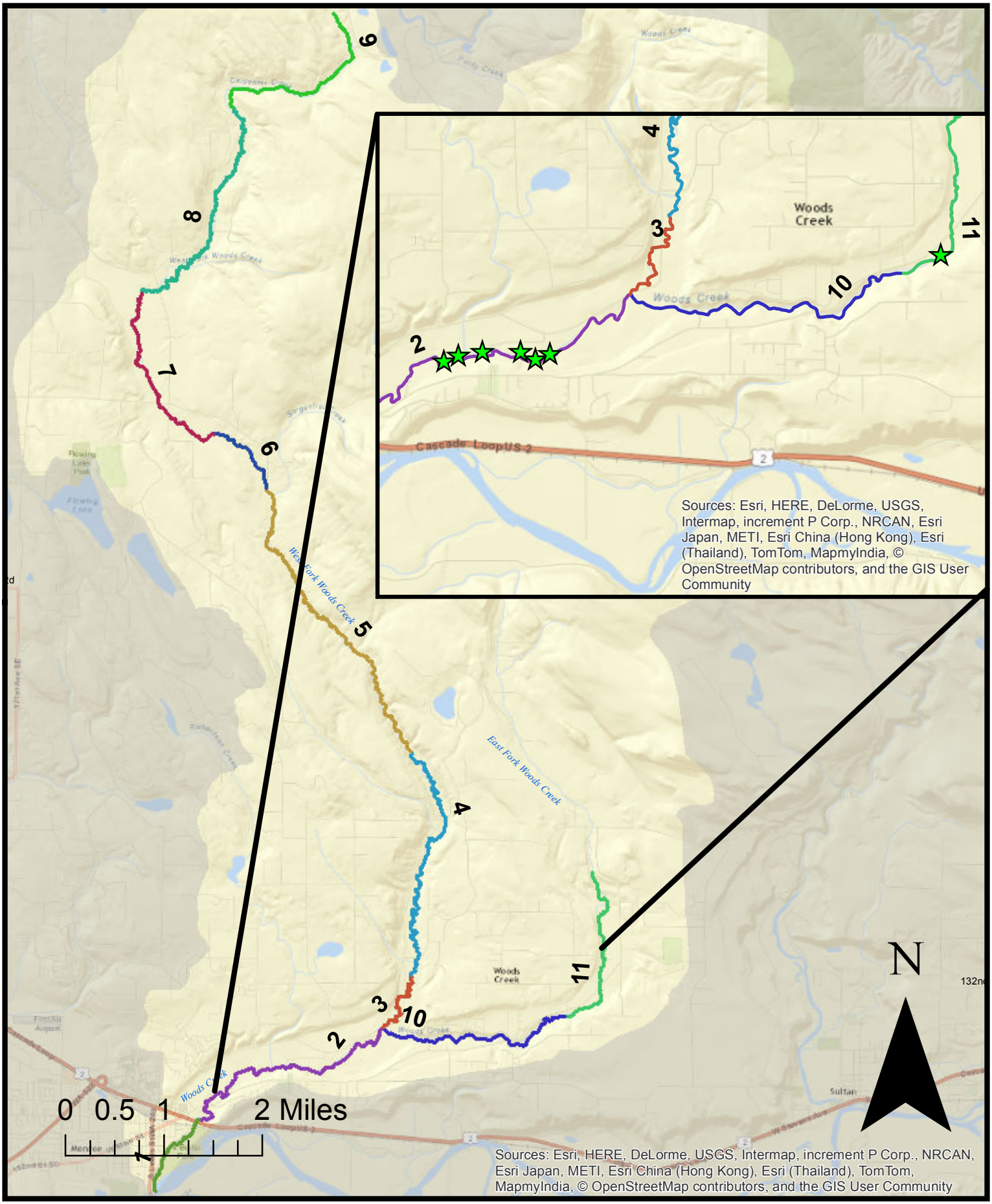
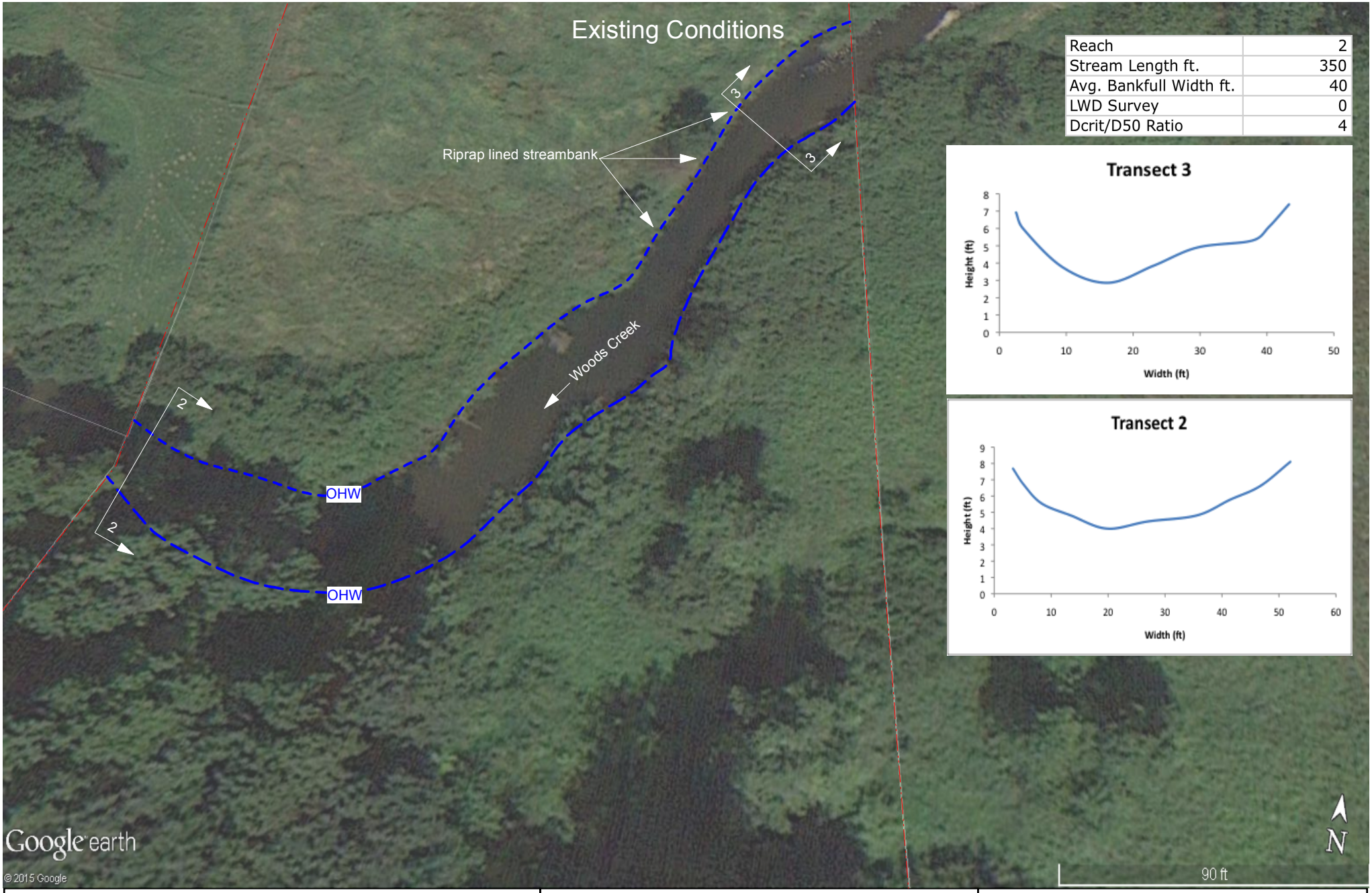
Woods Creek Watershed





Reach	2
Stream Length ft.	350
Avg. Bankfull Width ft.	40
LWD Survey	0
Dcrit/D50 Ratio	4

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"Teaching people to be stewards of their watersheds."

DATE: 02/02/15

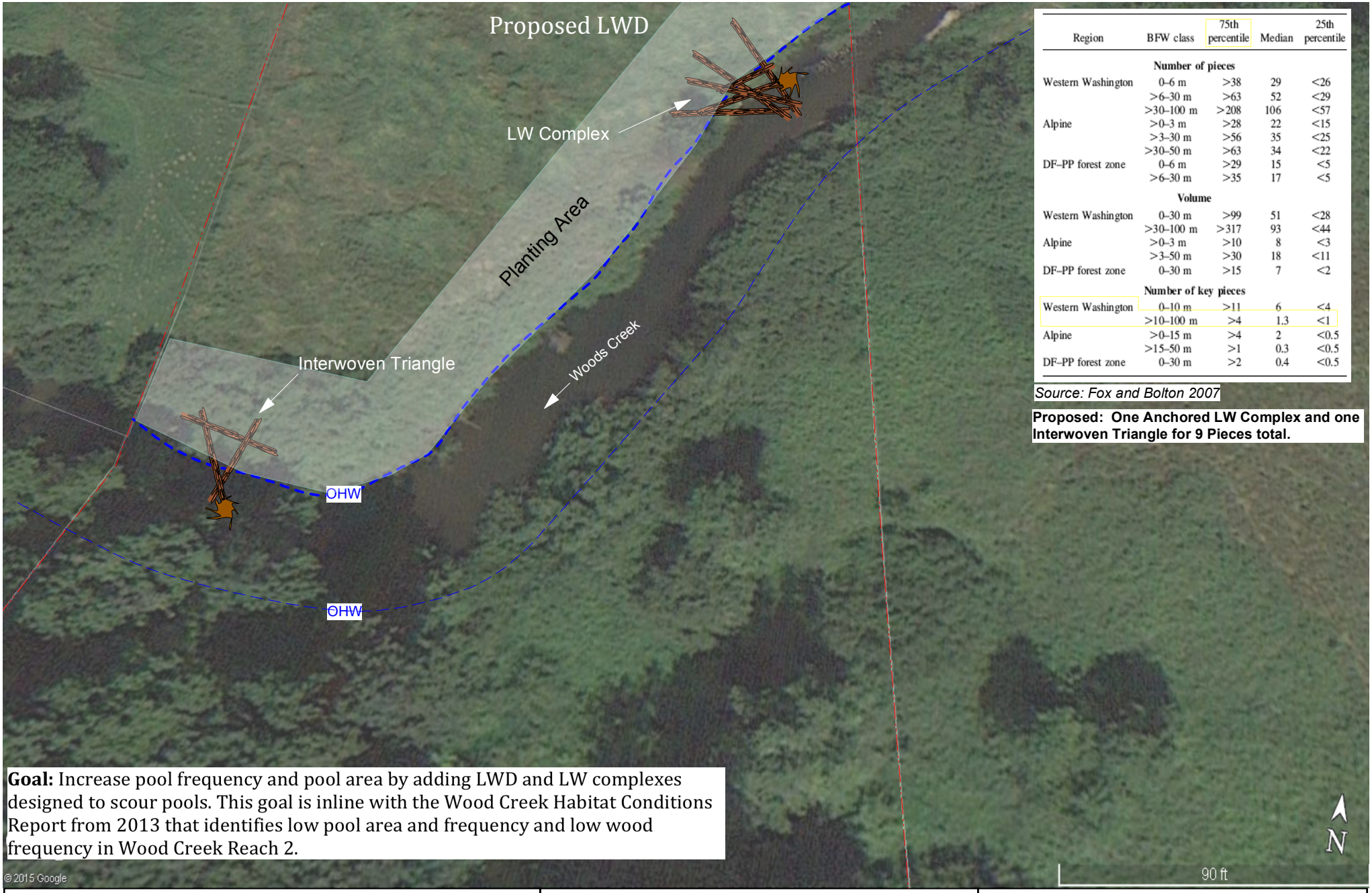
SCALE: 1" = 40'

DRAWN: WR

SHEET:

Sewell, Paul & Yvonne
22122 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek



Region	BFW class	75th percentile	Median	25th percentile
Number of pieces				
Western Washington	0–6 m	>38	29	<26
	>6–30 m	>63	52	<29
	>30–100 m	>208	106	<57
Alpine	>0–3 m	>28	22	<15
	>3–30 m	>56	35	<25
	>30–50 m	>63	34	<22
DF–PP forest zone	0–6 m	>29	15	<5
	>6–30 m	>35	17	<5
Volume				
Western Washington	0–30 m	>99	51	<28
	>30–100 m	>317	93	<44
Alpine	>0–3 m	>10	8	<3
	>3–50 m	>30	18	<11
DF–PP forest zone	0–30 m	>15	7	<2
Number of key pieces				
Western Washington	0–10 m	>11	6	<4
	>10–100 m	>4	1.3	<1
Alpine	>0–15 m	>4	2	<0.5
	>15–50 m	>1	0.3	<0.5
DF–PP forest zone	0–30 m	>2	0.4	<0.5

Source: Fox and Bolton 2007

Proposed: One Anchored LW Complex and one Interwoven Triangle for 9 Pieces total.

Goal: Increase pool frequency and pool area by adding LWD and LW complexes designed to scour pools. This goal is inline with the Wood Creek Habitat Conditions Report from 2013 that identifies low pool area and frequency and low wood frequency in Wood Creek Reach 2.

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SCALE: 1" = 40'

DRAWN: WR

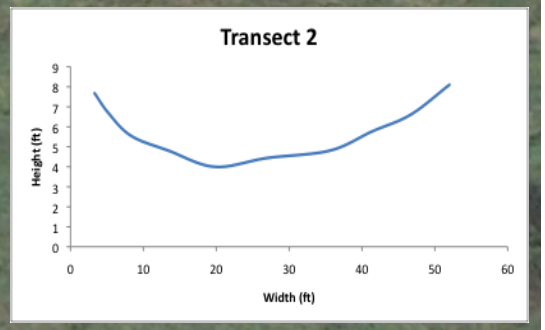
SHEET:

Sewell, Paul & Yvonne
22122 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek

Existing Conditions

Reach	2
Stream Length ft.	310
Avg. Bankfull Width ft.	45
LWD Survey	2
Dcrit/D50 Ratio	4



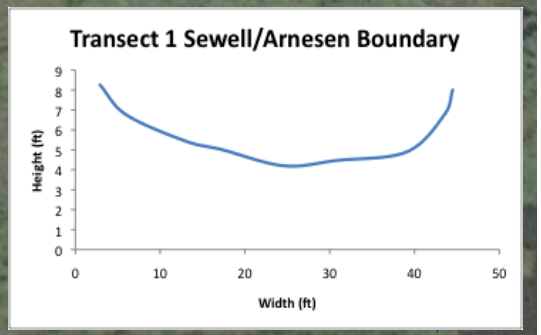



Photo taken looking downstream

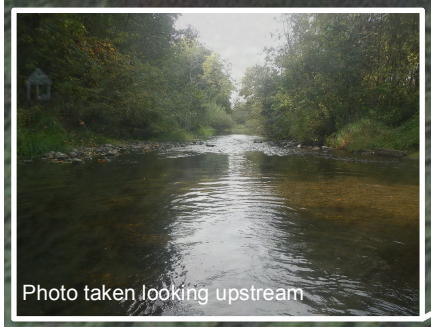


Photo taken looking upstream

Shallow Glide
Shallow Glide
Shallow Glide
Shallow Glide
Existing LWD
Woods Creek
Riffle
Riffle
Riffle
OHW
OHW
2
2
1
1
Google earth
© 2015 Google
100 ft
N

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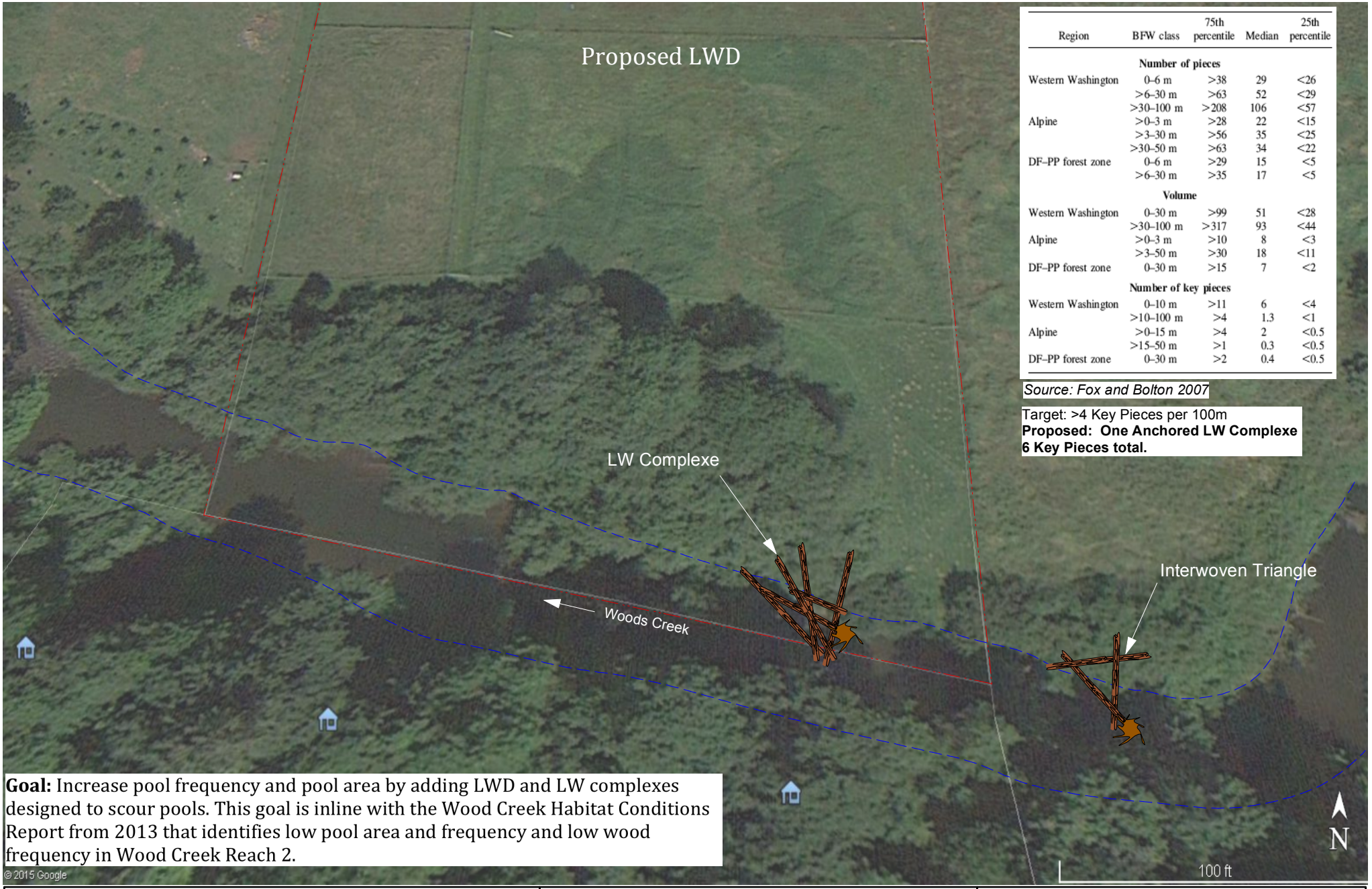
SCALE: 1" = 40'

DRAWN: WR

SHEET:

Arnesen, Michael & Victoria
22030 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek



Region	BFW class	75th percentile	Median	25th percentile
Number of pieces				
Western Washington	0–6 m	>38	29	<26
	>6–30 m	>63	52	<29
	>30–100 m	>208	106	<57
Alpine	>0–3 m	>28	22	<15
	>3–30 m	>56	35	<25
	>30–50 m	>63	34	<22
DF–PP forest zone	0–6 m	>29	15	<5
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Volume				
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Alpine	>0–3 m	>10	8	<3
	>3–50 m	>30	18	<11
DF–PP forest zone	0–30 m	>15	7	<2
Number of key pieces				
Western Washington	0–10 m	>11	6	<4
	>10–100 m	>4	1.3	<1
Alpine	>0–15 m	>4	2	<0.5
	>15–50 m	>1	0.3	<0.5
DF–PP forest zone	0–30 m	>2	0.4	<0.5

Source: Fox and Bolton 2007

Target: >4 Key Pieces per 100m
Proposed: One Anchored LW Complexe
6 Key Pieces total.

Goal: Increase pool frequency and pool area by adding LWD and LW complexes designed to scour pools. This goal is inline with the Wood Creek Habitat Conditions Report from 2013 that identifies low pool area and frequency and low wood frequency in Wood Creek Reach 2.

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DRAWN: WR
SHEET:

Arnesen, Michael & Victoria
22030 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek

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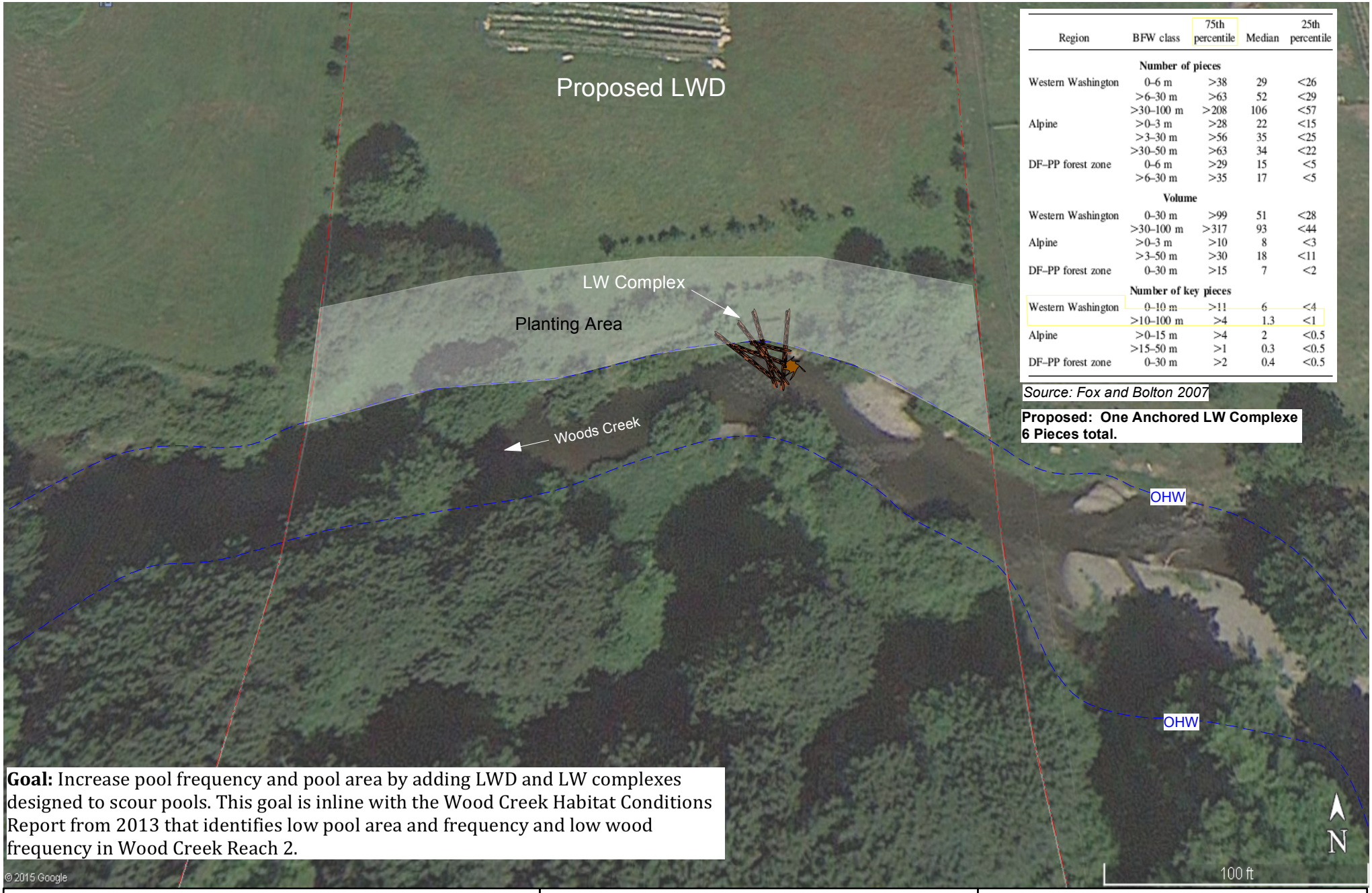
SCALE: 1" = 50'

DRAWN: WR

SHEET:

Fiscus, Tod & Lynne
21914 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek



Region	BFW class	75th percentile	Median	25th percentile
Number of pieces				
Western Washington	0–6 m	>38	29	<26
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Volume				
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Number of key pieces				
Western Washington	0–10 m	>11	6	<4
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Alpine	>0–15 m	>4	2	<0.5
	>15–50 m	>1	0.3	<0.5
DF–PP forest zone	0–30 m	>2	0.4	<0.5

Source: Fox and Bolton 2007

Proposed: One Anchored LW Complexe 6 Pieces total.

Goal: Increase pool frequency and pool area by adding LWD and LW complexes designed to scour pools. This goal is inline with the Wood Creek Habitat Conditions Report from 2013 that identifies low pool area and frequency and low wood frequency in Wood Creek Reach 2.

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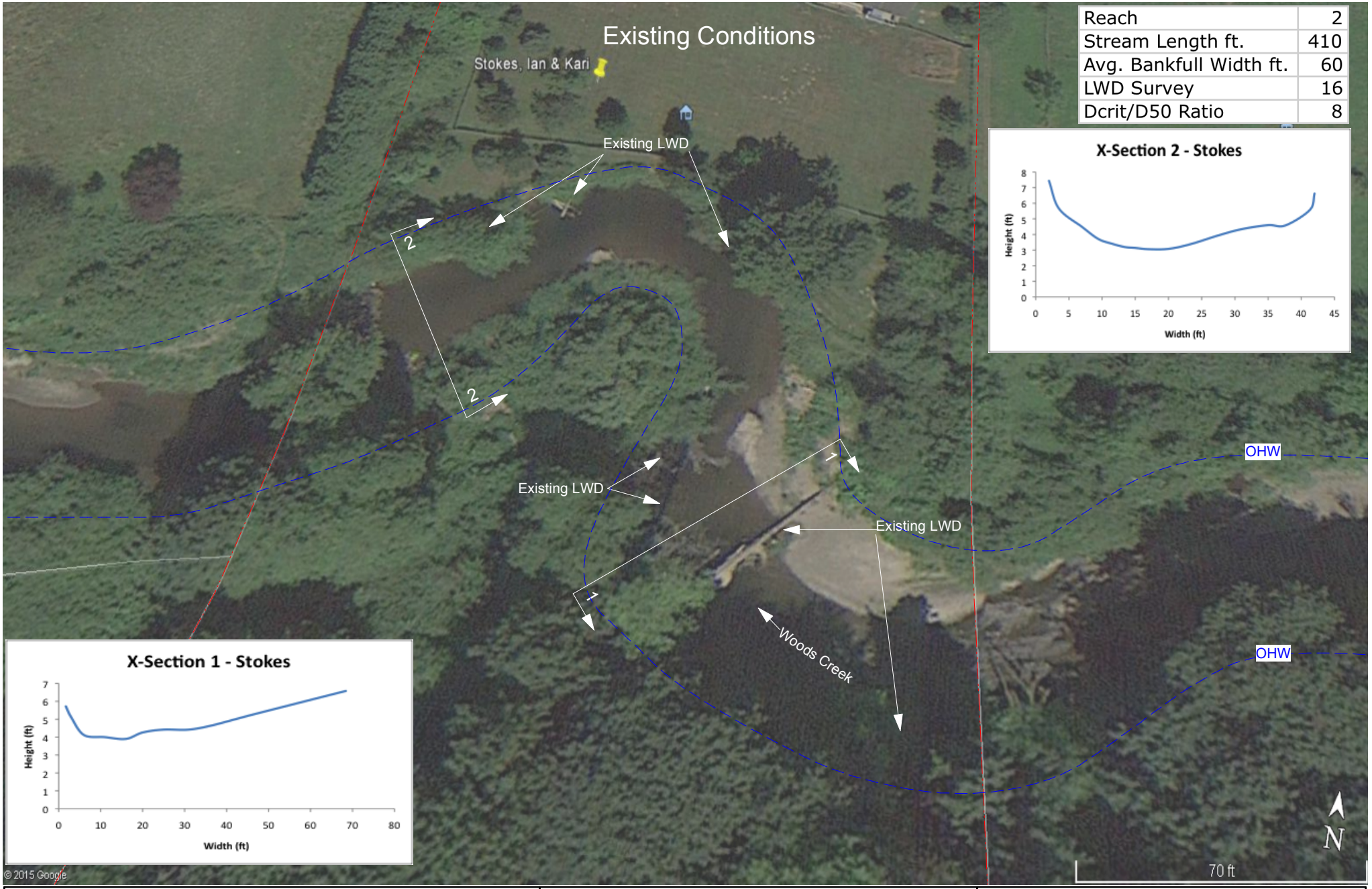
SCALE: 1" = 50'

DRAWN: WR

SHEET:

Fiscus, Tod & Lynne
21914 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek



Reach	2
Stream Length ft.	410
Avg. Bankfull Width ft.	60
LWD Survey	16
Dcrit/D50 Ratio	8

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DATE: 02/02/15

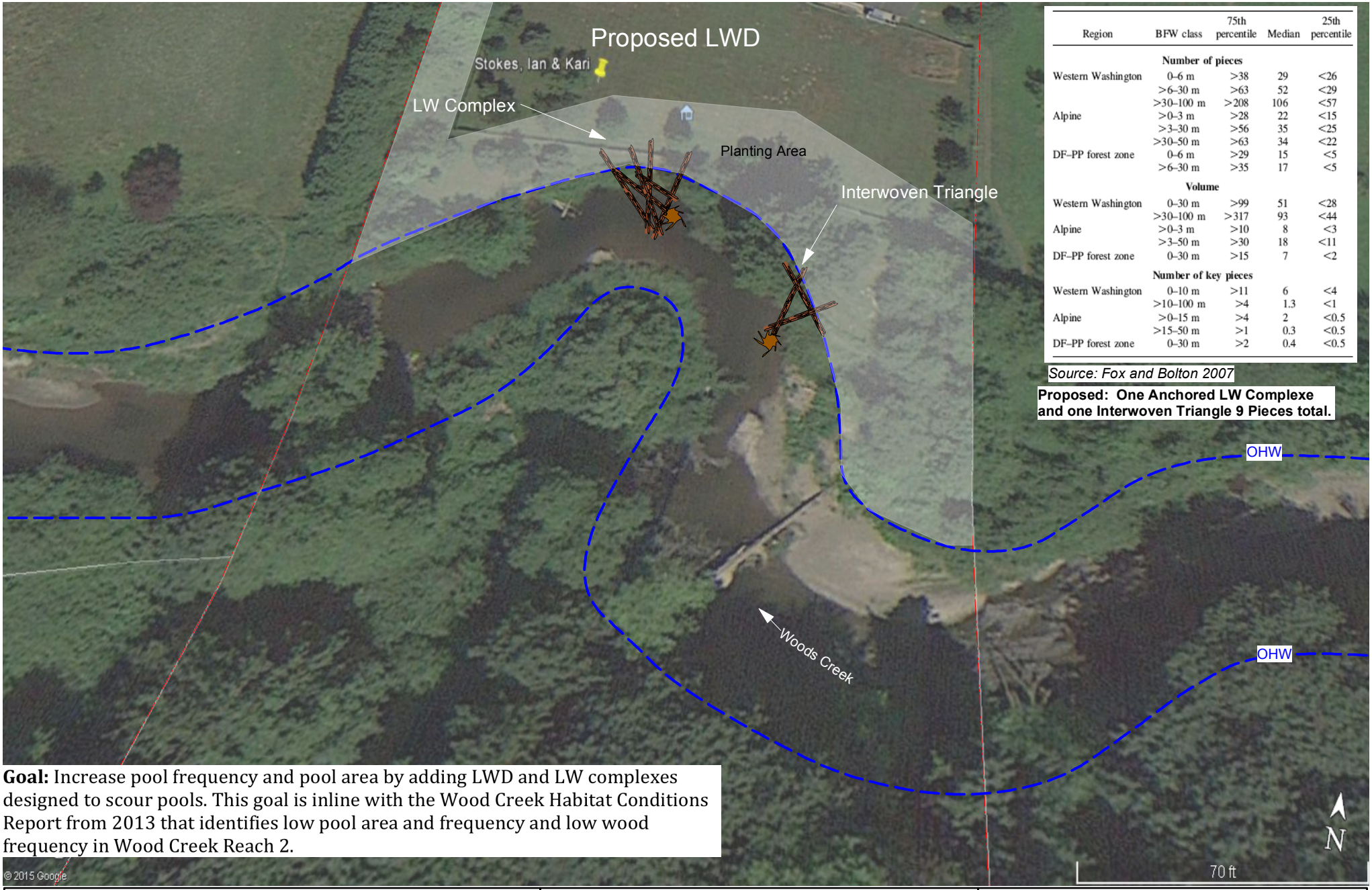
SCALE: 1" = 30'

DRAWN: WR

SHEET:

Stokes, Ian & Kari
21526 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek



Region	BFW class	75th percentile	Median	25th percentile
	Number of pieces			
Western Washington	0–6 m	>38	29	<26
	>6–30 m	>63	52	<29
	>30–100 m	>208	106	<57
Alpine	>0–3 m	>28	22	<15
	>3–30 m	>56	35	<25
	>30–50 m	>63	34	<22
DF–PP forest zone	0–6 m	>29	15	<5
	>6–30 m	>35	17	<5
	Volume			
Western Washington	0–30 m	>99	51	<28
	>30–100 m	>317	93	<44
Alpine	>0–3 m	>10	8	<3
	>3–50 m	>30	18	<11
DF–PP forest zone	0–30 m	>15	7	<2
	Number of key pieces			
Western Washington	0–10 m	>11	6	<4
	>10–100 m	>4	1.3	<1
Alpine	>0–15 m	>4	2	<0.5
	>15–50 m	>1	0.3	<0.5
DF–PP forest zone	0–30 m	>2	0.4	<0.5

Source: Fox and Bolton 2007

Proposed: One Anchored LW Complexe and one Interwoven Triangle 9 Pieces total.

Goal: Increase pool frequency and pool area by adding LWD and LW complexes designed to scour pools. This goal is inline with the Wood Creek Habitat Conditions Report from 2013 that identifies low pool area and frequency and low wood frequency in Wood Creek Reach 2.

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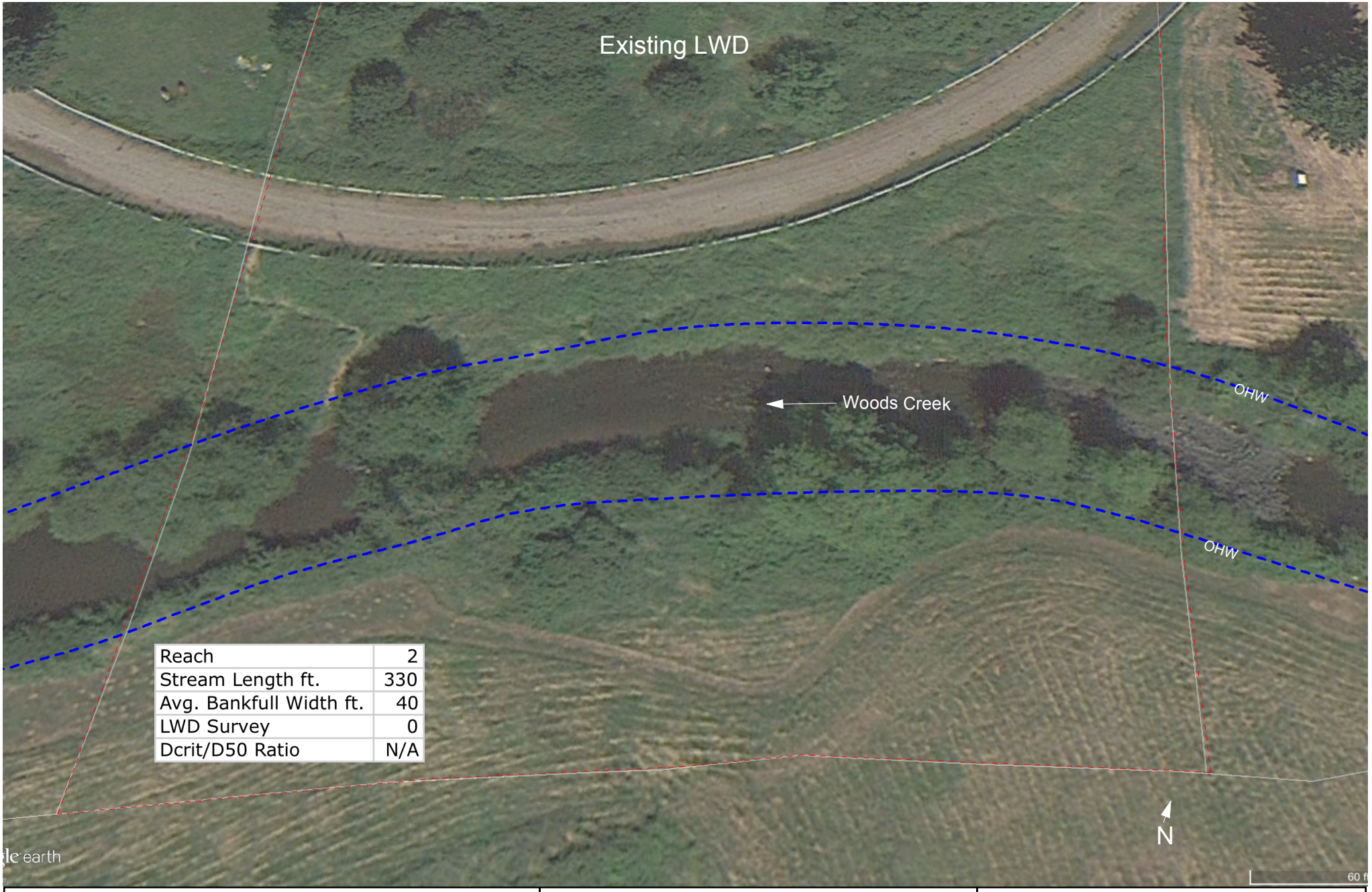
SCALE: 1" = 30'

DRAWN: WR

SHEET:

Stokes, Ian & Kari
21526 144th St. SE

Woods Creek: Reach 2
Lower Woods Creek



Reach	2
Stream Length ft.	330
Avg. Bankfull Width ft.	40
LWD Survey	0
Dcrit/D50 Ratio	N/A

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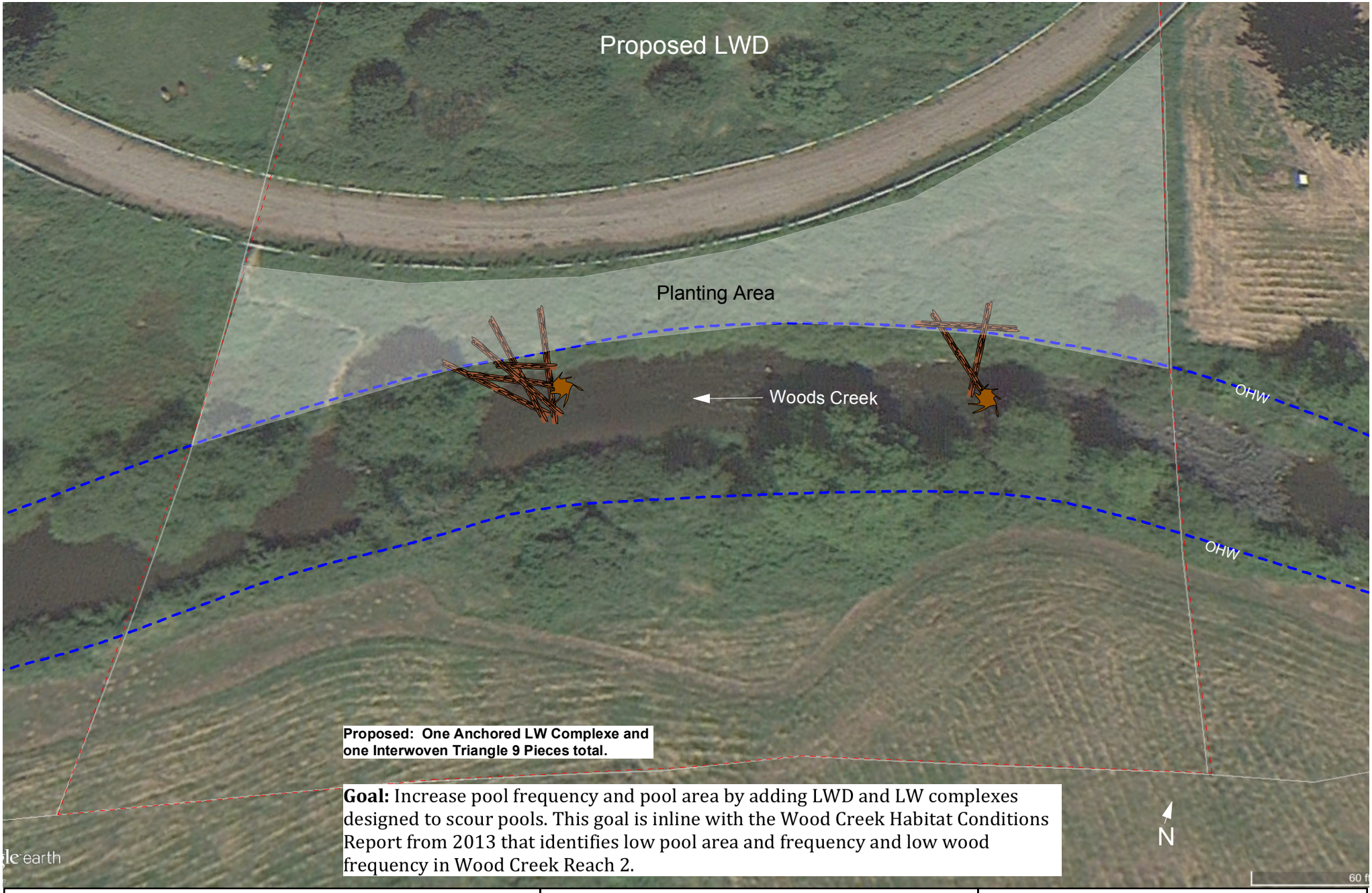
SCALE: 1" = 30'

DRAWN: WR

SHEET:

Qayyum, "Sean" Waheed
21112 Woods Creek Road

Woods Creek: Reach 2
Lower Woods Creek



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DATE: 02/02/15

SCALE: 1" = 30'

DRAWN: WR

SHEET:

Qayyum, "Sean" Waheed
21112 Woods Creek Road

Woods Creek: Reach 2
Lower Woods Creek

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DATE: 02/02/15

SCALE: 1" = 30'

DRAWN: WR

SHEET:

Watkins, Wallace
21104 woods Creek Road

Woods Creek: Reach 2
Lower Woods Creek

Region	BFW class	75th percentile	Median	25th percentile
	Number of pieces			
Western Washington	0–6 m	>38	29	<26
	>6–30 m	>63	52	<29
	>30–100 m	>208	106	<57
Alpine	>0–3 m	>28	22	<15
	>3–30 m	>56	35	<25
	>30–50 m	>63	34	<22
DF–PP forest zone	0–6 m	>29	15	<5
	>6–30 m	>35	17	<5
	Volume			
Western Washington	0–30 m	>99	51	<28
	>30–100 m	>317	93	<44
Alpine	>0–3 m	>10	8	<3
	>3–50 m	>30	18	<11
DF–PP forest zone	0–30 m	>15	7	<2
	Number of key pieces			
Western Washington	0–10 m	>11	6	<4
	>10–100 m	>4	1.3	<1
Alpine	>0–15 m	>4	2	<0.5
	>15–50 m	>1	0.3	<0.5
DF–PP forest zone	0–30 m	>2	0.4	<0.5

Source: Fox and Bolton 2007

Proposed: One Anchored LW Complexe
6 pieces total.

Proposed LWD

Planting Area

OHW

Woods Creek

OHW

LW Complex

Goal: Increase pool frequency and pool area by adding LWD and LW complexes designed to scour pools. This goal is inline with the Wood Creek Habitat Conditions Report from 2013 that identifies low pool area and frequency and low wood frequency in Wood Creek Reach 2.

Google earth
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N

60 ft

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DATE: 02/02/15

SCALE: 1" = 30'

DRAWN: WR

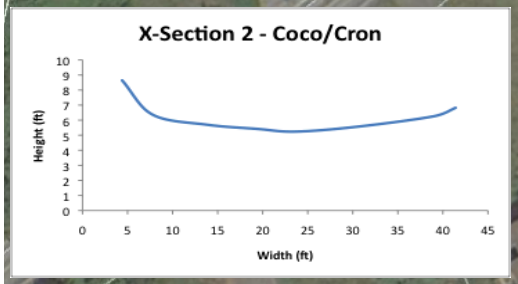
SHEET:

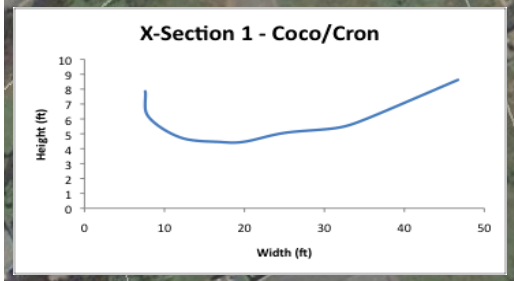
Watkins, Wallace
21104 Woods Creek Road

Woods Creek: Reach 2
Lower Woods Creek

Existing Conditions

Reach	11
Stream Length ft.	210
Avg. Bankfull Width ft.	40
LWD Survey	8
Dcrit/D50 Ratio	1





26530 Florence Acres Rd

OHW

OHW

Woods Creek

1

1

2

2

Google earth

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N

100 ft

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DATE: 02/02/15

SCALE: 1 = 800

DRAWN: WR

SHEET:

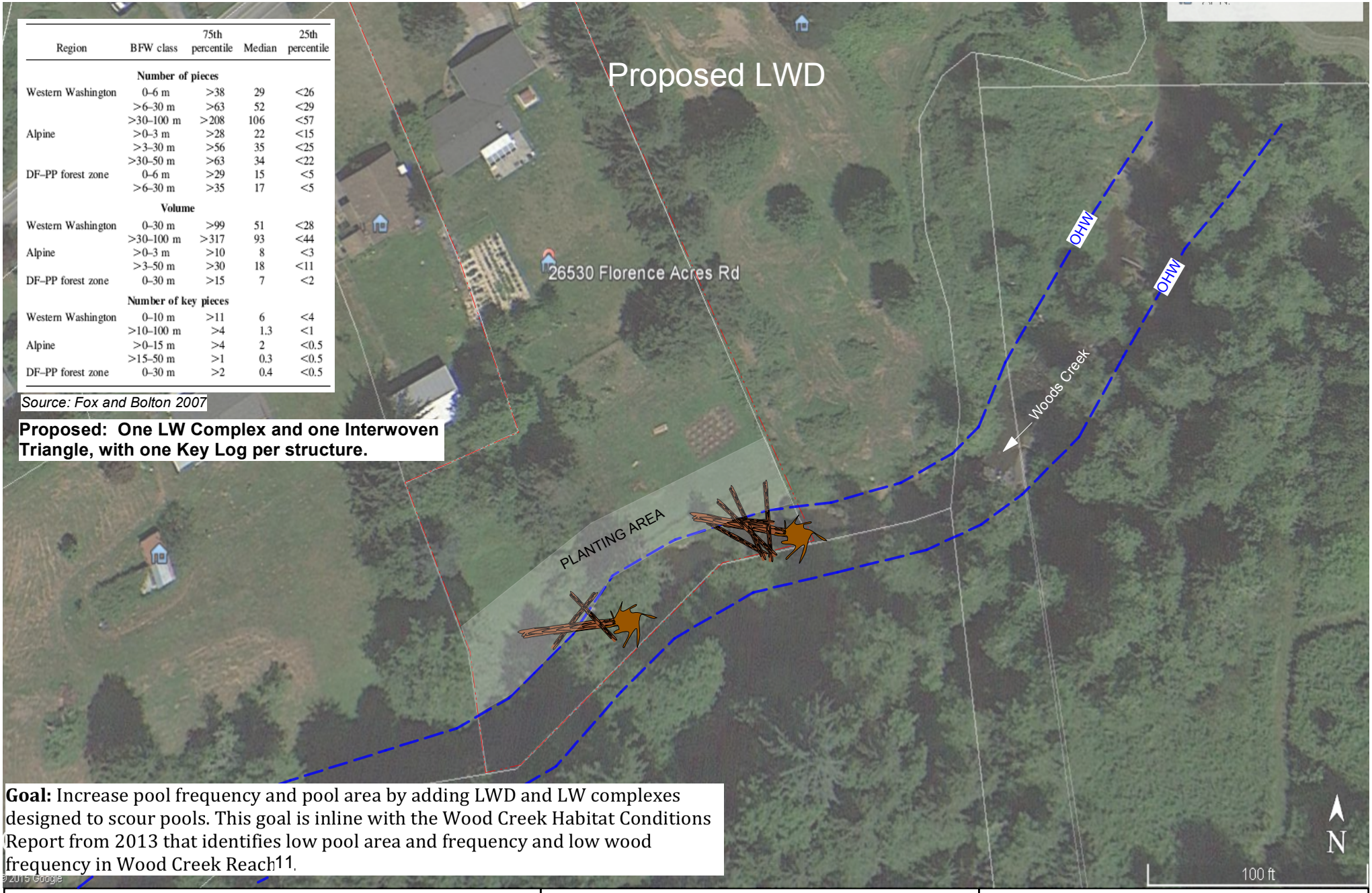
Coco/Cron, Christine & Justin
26530 Florence Acres Road

Woods Creek: Reach 11
East Fork Woods Creek

Region	BFW class	75th percentile	Median	25th percentile
	Number of pieces			
Western Washington	0–6 m	>38	29	<26
	>6–30 m	>63	52	<29
	>30–100 m	>208	106	<57
Alpine	>0–3 m	>28	22	<15
	>3–30 m	>56	35	<25
	>30–50 m	>63	34	<22
DF–PP forest zone	0–6 m	>29	15	<5
	>6–30 m	>35	17	<5
	Volume			
Western Washington	0–30 m	>99	51	<28
	>30–100 m	>317	93	<44
Alpine	>0–3 m	>10	8	<3
	>3–50 m	>30	18	<11
DF–PP forest zone	0–30 m	>15	7	<2
	Number of key pieces			
Western Washington	0–10 m	>11	6	<4
	>10–100 m	>4	1.3	<1
Alpine	>0–15 m	>4	2	<0.5
	>15–50 m	>1	0.3	<0.5
DF–PP forest zone	0–30 m	>2	0.4	<0.5

Source: Fox and Bolton 2007

Proposed: One LW Complex and one Interwoven Triangle, with one Key Log per structure.



Goal: Increase pool frequency and pool area by adding LWD and LW complexes designed to scour pools. This goal is inline with the Wood Creek Habitat Conditions Report from 2013 that identifies low pool area and frequency and low wood frequency in Wood Creek Reach11.

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DATE: 04/01/15

SCALE: 1 = 700

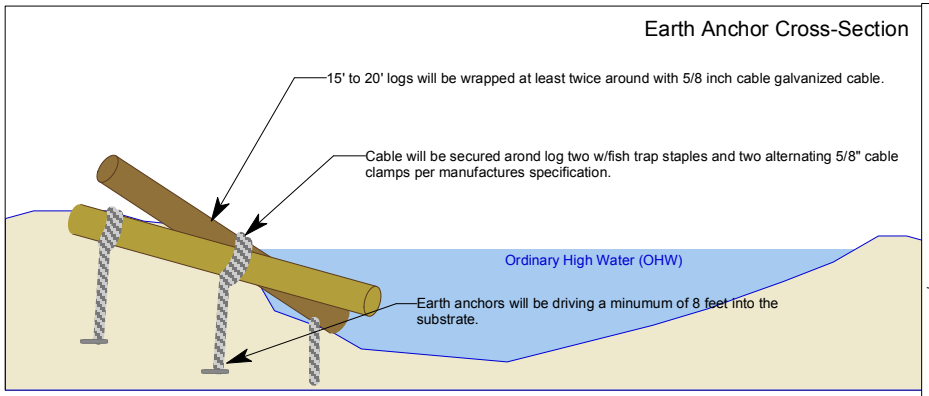
DRAWN: WR

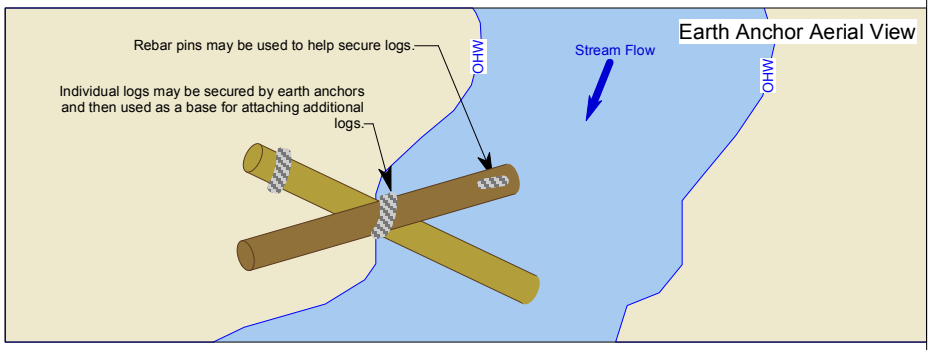
SHEET:

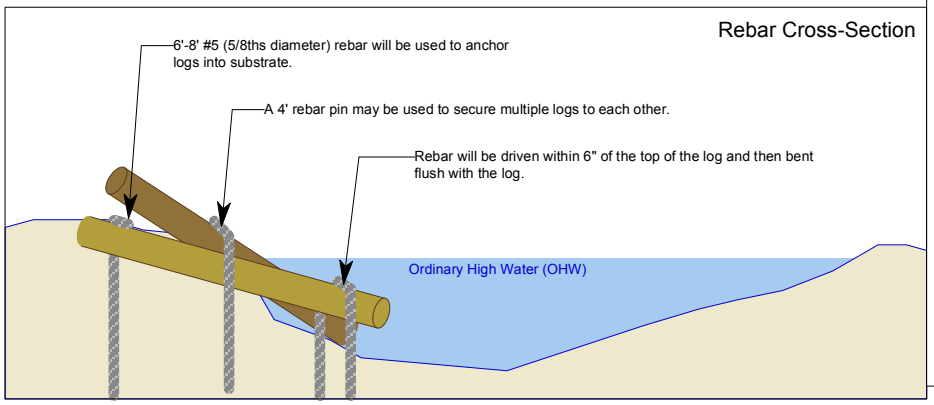
Coco/Cron, Christine & Justin
26530 Florence Acres Road

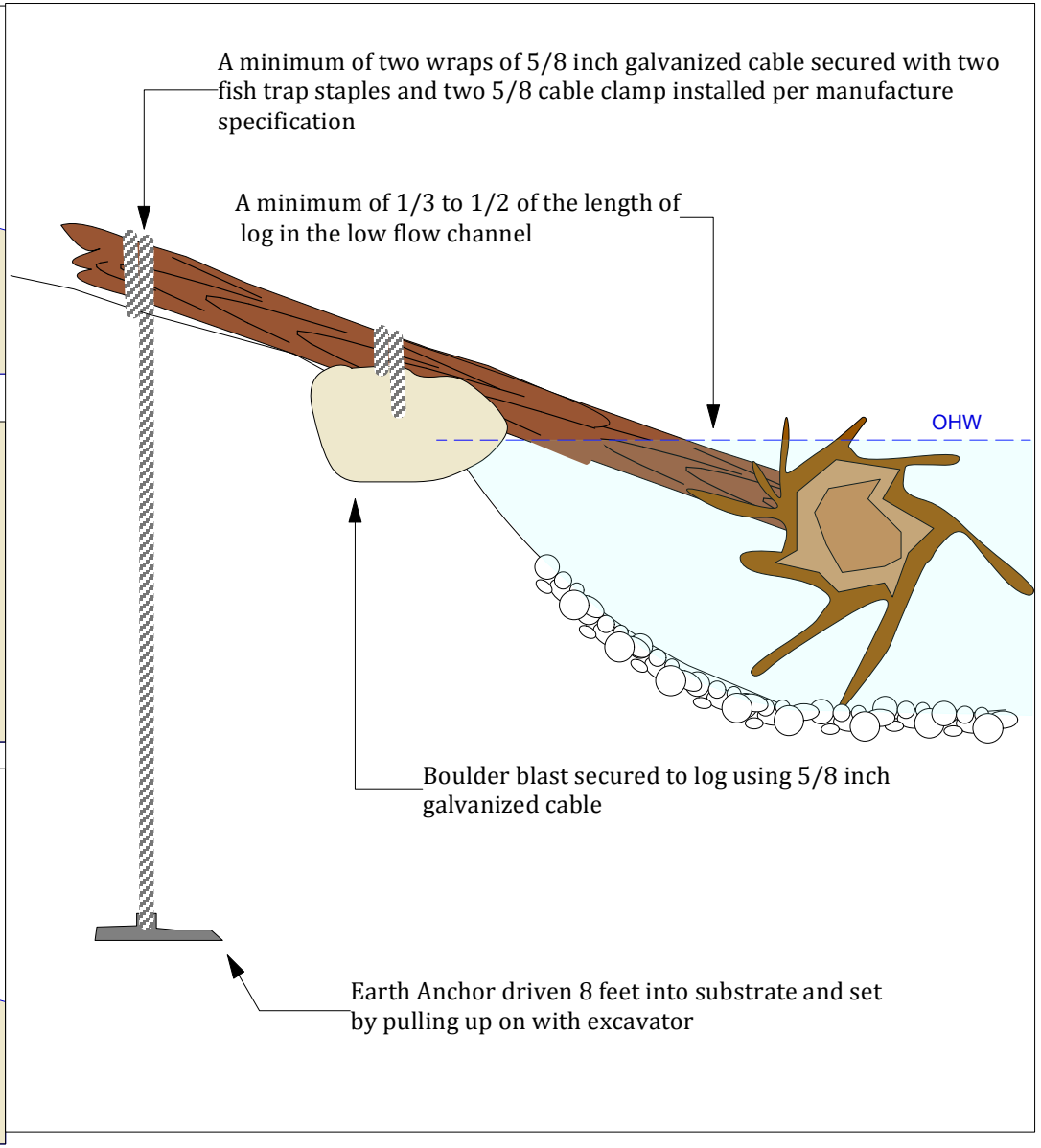
Woods Creek: Reach 11
East Fork Woods Creek

LWD Anchoring Typicals









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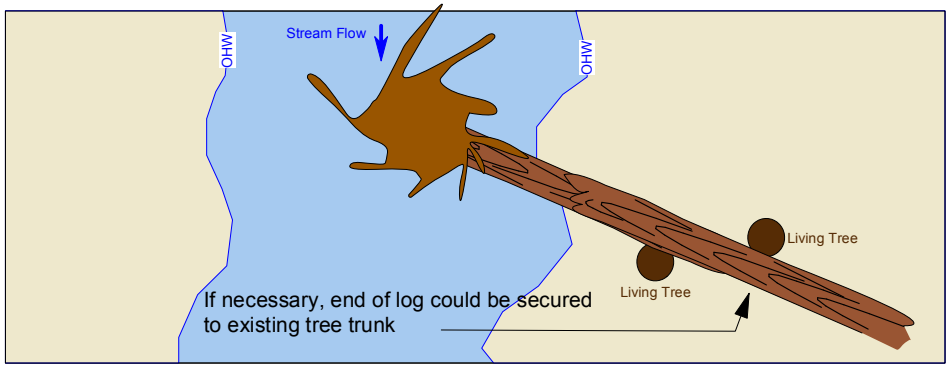
DATE:	02/02/15
SCALE:	NTS
DRAWN:	WR
SHEET:	

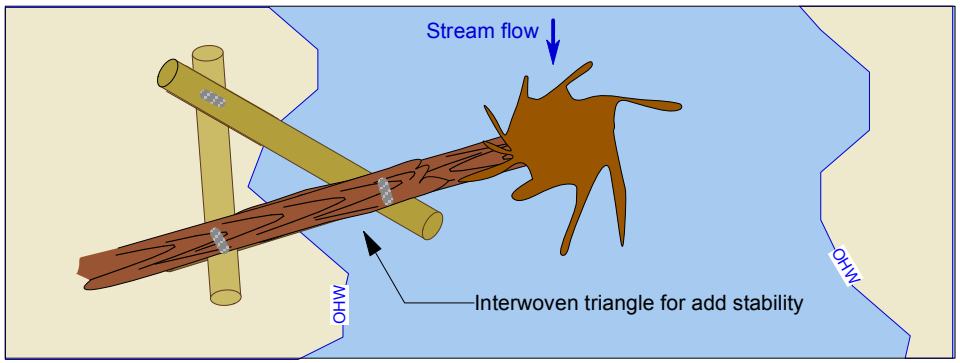
LWD Typicals: Anchoring

LWD Typicals

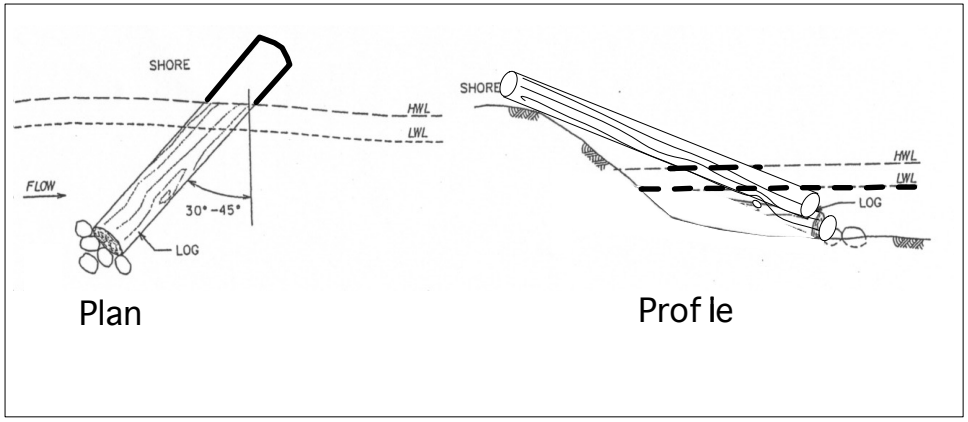
PRESSURE FIT DEFLECTOR LOG DETAIL



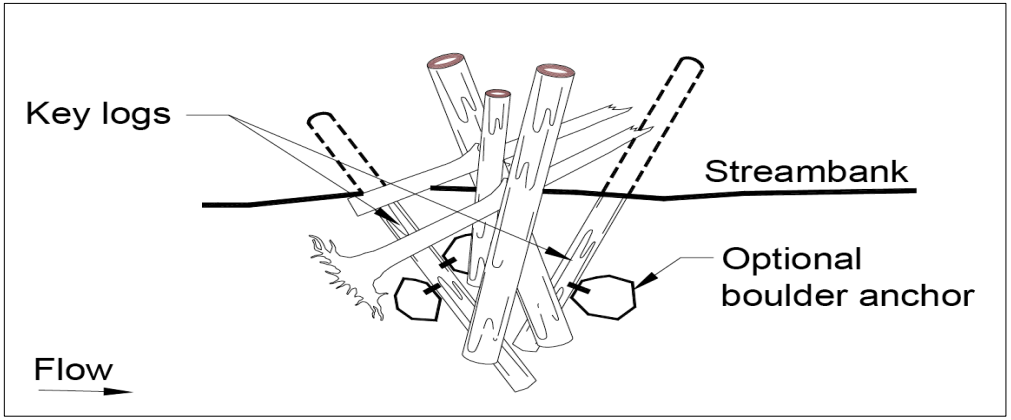
INTERWOVEN TRIANGLE DETAIL



SINGLE LOG DEFLECTOR DETAIL



LW COMPLEXE DETAIL



Source: 2004 Stream Habitat Restoration Guidlines: Final Draft

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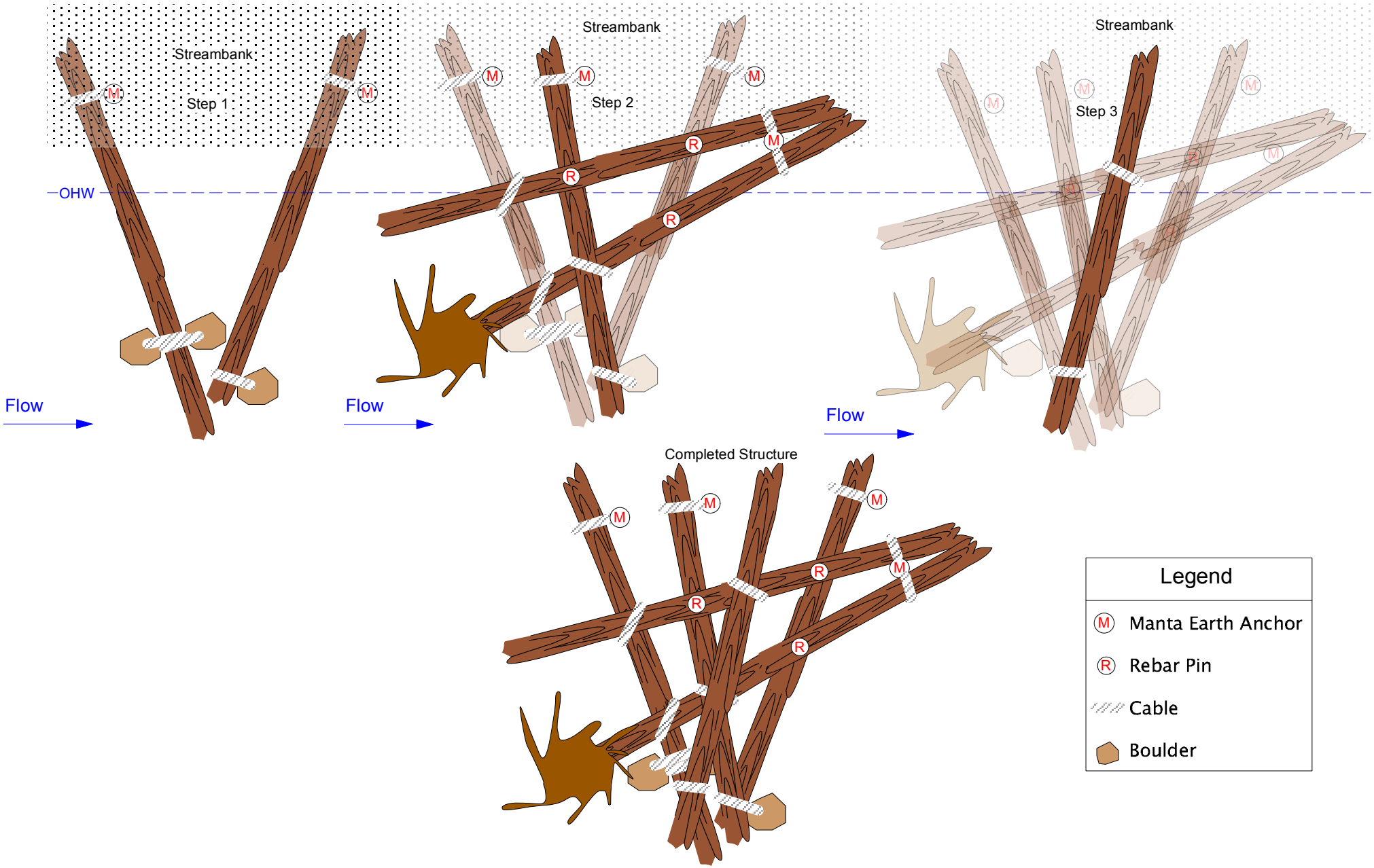
SCALE:	NTS
DRAWN:	WR
SHEET:	

LWD Typicals

PLAN VIEW - LW COMPLEX



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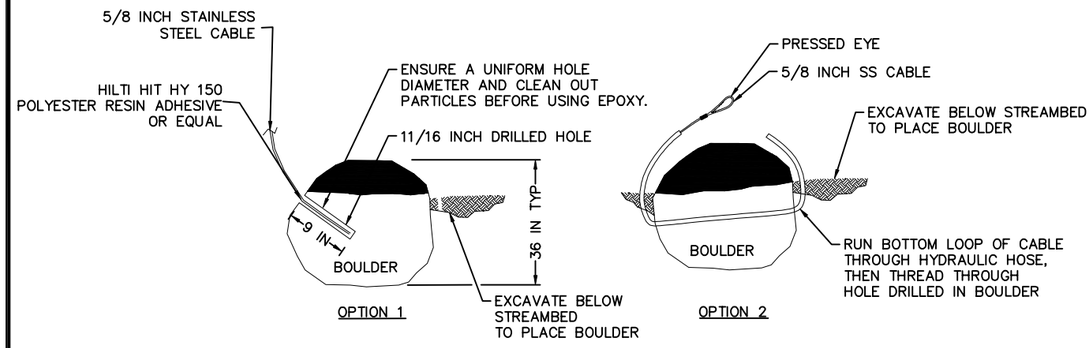
www.streamkeeper.org
"Teaching people to be stewards of their watersheds."

DATE: 02/19/15	LW Complex Details
SCALE: N/A	
DRAWN: WR	
SHEET:	

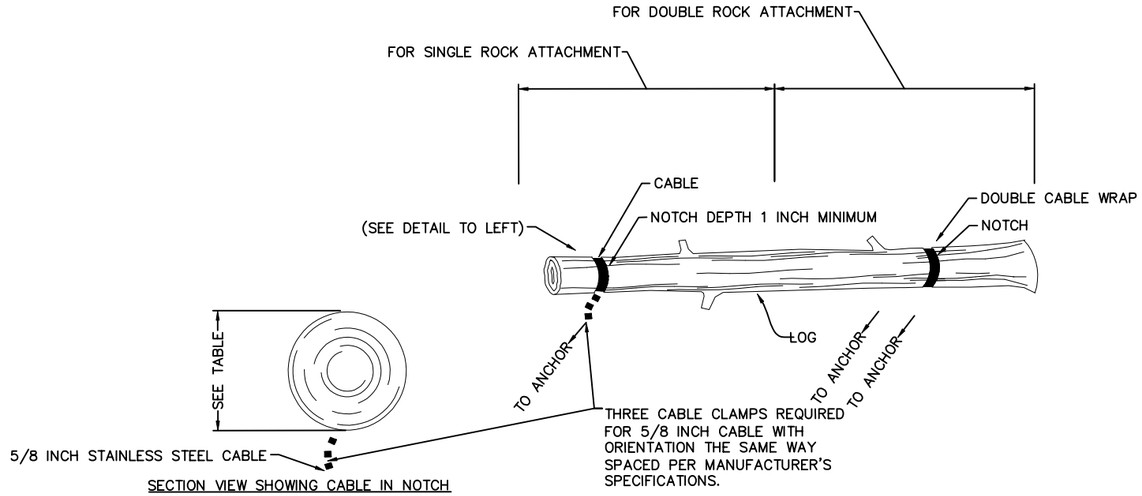


DRILL 11/16–IN HOLE 9–IN DEEP. FILL HOLE WITH HILTI HIT HY150 OR SIMILAR. INSERT CABLE PER MANUFACTURER'S SPECIFICATIONS.

SECURING CABLE TO BOULDER

1 / C1

NTS

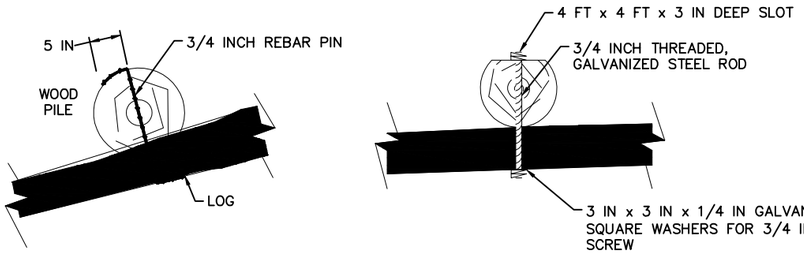


SECTION VIEW SHOWING CABLE IN NOTCH

CABLING DETAIL TO SINGLE OR DOUBLE ANCHORS

2 / C1

NTS



DRILL 3/4"–DIAMETER HOLES THROUGH WOOD PILE AND LOG. DRIVE 3/4" REBAR (MINIMUM 2 FEET OR LOG DIAMETER) INTO EACH. BEND REBAR OVER SO NOT EXPOSED.

OPTIONAL BOLTED CONNECTION.
DRILL 3/4 INCH HOLES THROUGH BOTH LOGS. CUT 4 FT x 4 FT X 3 IN DEEP INTO TOP LOG. INSERT 3/4 INCH GALVANIZED THREADED ROD AND ATTACH AT BOTH ENDS WITH WASHERS AND NUTS. MAINTAIN A MINIMUM 15 INCHES FROM END OF WOOD PILE TO PIN LOCATION.

REBAR PIN DETAILS

3 / C1

NTS

LOD ANCHOR TABLE ASSUMING TWO ROCKS OR M1 PER LOD PIECE
(WEIGHT OF EACH ROCK, ROCK DIAMETER)

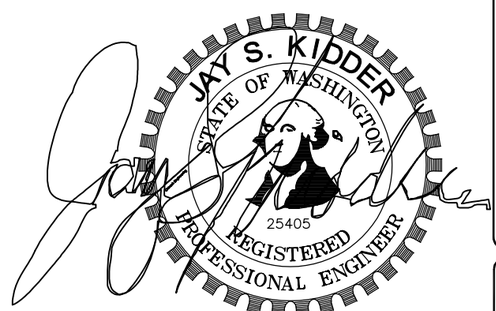
Log Diameter (inches)	LOG LENGTH (FEET, TIP TO BASE) 10	20	30	40
12	570 lbs 22 inch	1050 lbs 27 inch	1530 lbs 27 inch	
18	1150 lbs 28 inch	1870 lbs 33 inch	2600 lbs 37 inch	3300 lbs 40 inch
24	1630 lbs 31 inch	2600 lbs 36 inch	3500 lbs 41 inch	4500 lbs 44 inch
36	2400 lbs 36 inch	3800 lbs 42 inch	5300 lbs 46 inch	6700 lbs 50 inch

ASSUMPTIONS

1. VALUES ARE FOR EACH ROCK.
2. LOGS HAVE ROOTWADS ATTACHED
3. LOG DIAMETER IS AVERAGE OF BASE AND END

Notes:

1. LOD shall be Douglas Fir, Cedar, Hemlock, or Ponderosa Pine species.
2. All logs shall be 8"-16" dbh and 20' in length unless noted otherwise.
3. Anchors may be rock or manta ray earth anchors as site may require.
4. M1 Manta Ray anchors may be substituted 1 to 1 for rocks up to 3000 lbs and then multiply values of table for larger anchor loads and use multiple M1 anchors.
5. Simpson SET XP may be substituted for Hilti Epoxy.



1" Bar at Original Scale

CHINOOK ENGINEERING
860 Windrose Drive
Coupeville, Washington 98239
(360) 678-4747
Professional Consulting Engineers

REV	DATE	ISSUE	DWG	DES	CHK	APP
1	7-3-2013	Issued for Construction	JSK	JSK	JSK	JSK
2	-	-				
3	-	-				

PROJECT NO. –

Adopt A Stream Foundation
Bear Creek Restoration At Freindly Village

LOD Anchorage Details
Boulder and Manata Ray Anchors

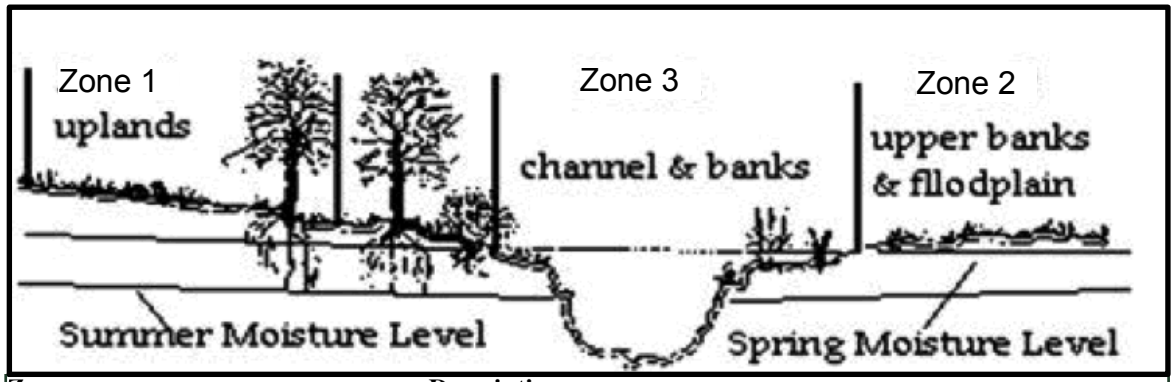
DRAWING NO.
C-1
1 OF 3

Planting Typical: Planting Zones

Typical Speices Planted by Zone

Zone 1	FACU			
Type	**Common name**	**Exposure**	**Moisture**	**Wetland Designation**
Tree	Douglas' Maple	sun - part shade	moist	FACU
Tree	bigleaf maple	sun - shade	dry - moist	FACU
Tree	paper birch	sun - part shade	moist	FACU
Shrub	serviceberry; juneberry	sun - shade	dry - moist	FACU
Shrub	bald hip rose	sun - shade	dry - wet	FACU
Shrub	snowberry	sun - shade	dry - moist	FACU
Zone 2	**FAC**			
Type	**Common name**	**Exposure**	**Moisture**	**Wetland Designation**
Tree	red alder	sun - part shade	dry - wet	FAC
Tree	shore pine	sun - part shade	dry - wet	FAC
Tree	Scouler willow	sun - part shade	moist-wet	FAC
Tree	black hawthorn	sun - part shade	moist - wet	FAC
Tree	Sitka spruce	sun - part shade	moist - wet	FAC
Tree	cascara	sun - shade	dry - wet	FAC
Tree	Western redcedar	part shade - shade	moist - wet	FAC
Shrub	twinberry	sun - shade	moist - wet	FAC
Shrub	Pacific ninebark	sun - shade	moist - wet	FAC
Shrub	nootka rose	sun - part shade	moist - wet	FAC
Shrub	salmonberry	sun - shade	moist - wet	FAC
Shrub	red elderberry	sun - shade	dry - moist	FAC
Shrub	thimbleberry	sun - shade	dry - moist	FAC
Zone 3	**FACW**			
Type	**Common name**	**Exposure**	**Moisture**	**Wetland Designation**
Tree	Pacific willow	sun - part shade	moist - wet	FACW
Tree	Sitka willow	sun - part shade	moist - wet	FACW
Tree	Oregon ash	sun - part shade	moist - wet	FACW
Shrub	red-osier dogwood	sun - shade	moist - wet	FACW
Shrub	spiraea; hardhack	sun - part shade	moist - wet	FACW

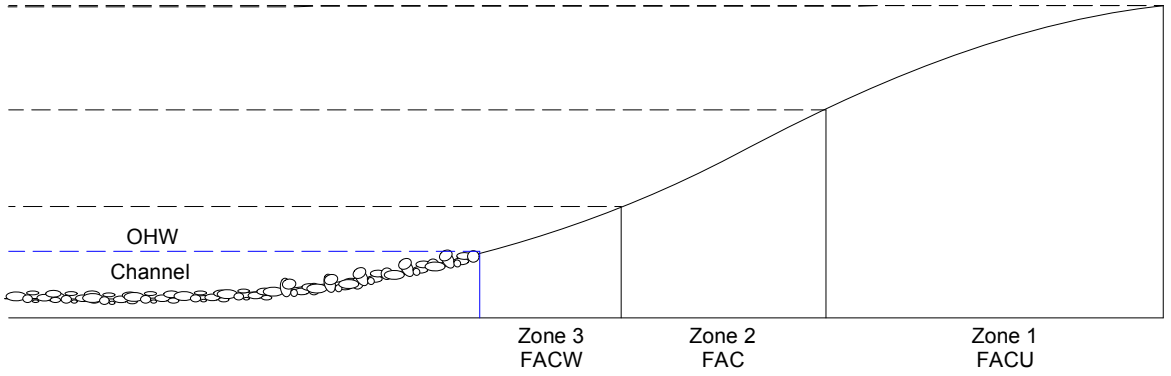
Source: King County's Northwest Native Plant Guide, Integraded Streambank Protection Guidelines



Zones	Description
Zone 3 includes the stream channel and banks	It is flooded at least part of the time every winter, and supports largely hydrophytic (water-loving) vegetation. Soils are often rocky and difficult to plant. Plant flood tolerant species.
Zone 2 Includes the upper banks and floodplain	This may be a very narrow zone in a channelized or confined stream or a wide zone in an unconfined stream. Moisture usually decreases from the boundary of Zone 3. Shrub and weed competition may be intense. Soils are often sandy and/or rocky and droughty. Both flood and drought tolerant species may be suitable.
Zone 1 Upper terrace and uplands adjacent to stream bank.	This zone supports primarily upland vegetation m, although some Zone 1 and 2 species may be found at the boundary of Zone 2 and 3. Plant drought tolerant species.

Source:Wayne Crowder and Walt Edelen. 1996. Riparian Moisture Zones

STREAM SIDE PLANTING ZONES



ADOPT A STREAM FOUNDATION

600 128th ST SE
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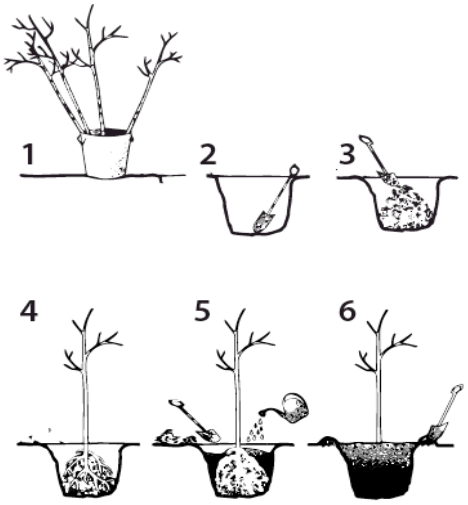
Planting Typical: Planting Zones

Planting Typical

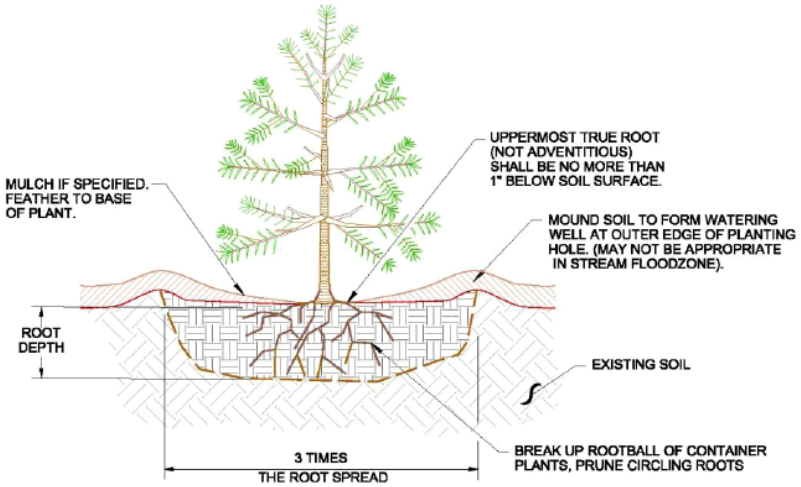
Bare Root Planting



1. Soak bare root plants for 24 hours
2. Dig hole large enough to spread roots out spaciously.
3. Form a cone shape
4. Place plant with old soil line at new surface level. Spread roots evenly.
5. Fill hole 3/4 full, pat down gently, water throughly to settle soil further, and recheck plant's soil line.
6. Fill hole completely, making a soil ridge around the hole to create a watering basin.

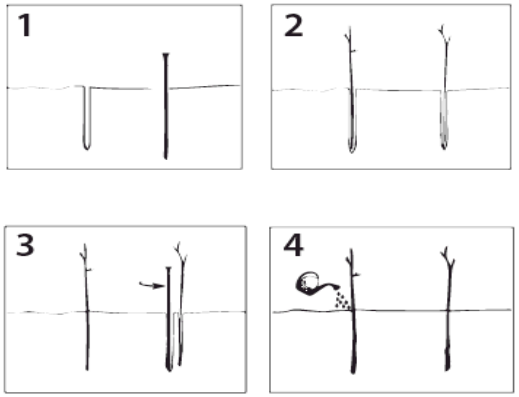
Source: Snohomish Conservation District 2013 Plant Sale Guide

Potted Stock Planting



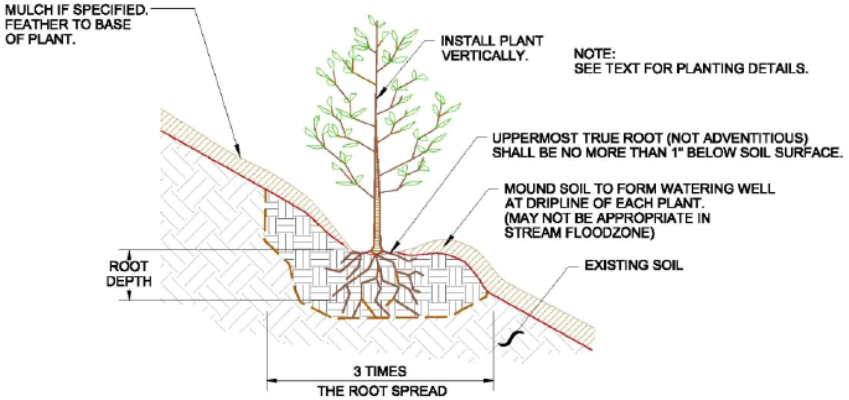
SHRUB, TREE AND GROUND COVER PLANTING DETAIL

Live Stake Planting



1. If soil is too hard for direct cutting placement, use a planting bar to create a hole. Make hole half the length of the cutting.
2. Insert willow cutting to the bottom of hole.
3. Re-insert the planting bar adjacent to first hole and move bar toward willow cutting to close hole.
4. Water thoroughly
5. Watch your willow grow and flourish.

Source: Snohomish Conservation District 2013 Plant Sale Guide



SLOPE PLANTING DETAIL
(INCLUDES ALL PLANTS ON SLOPES)

DRAWN BY: FERN LIDDELL, WSDOT

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Planting Typical