

Timber Sales Engineering



WASHINGTON STATE DEPARTMENT OF
NATURAL RESOURCES



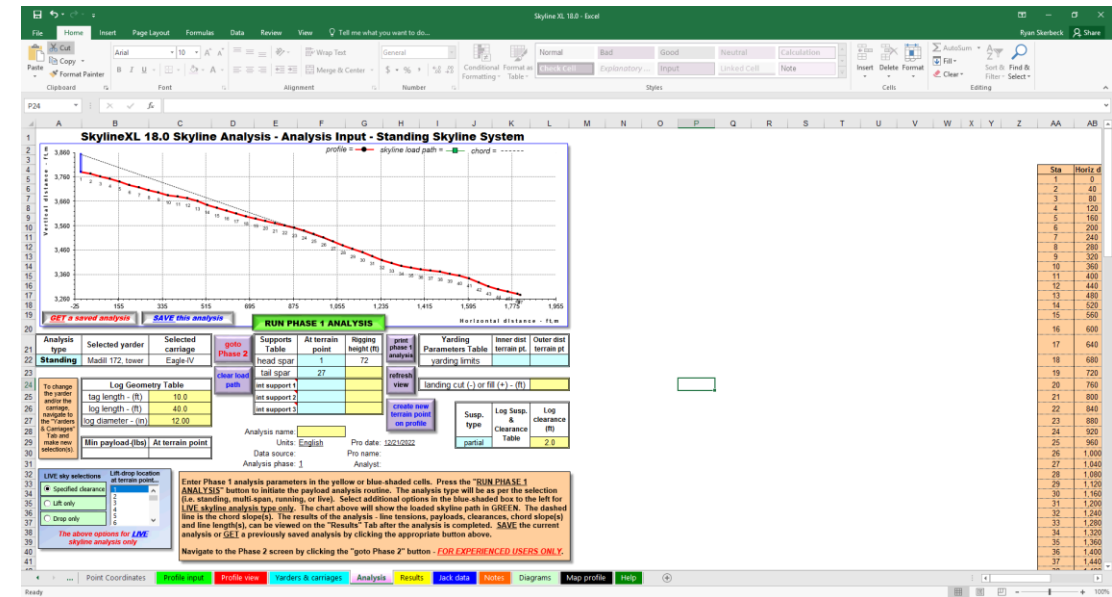
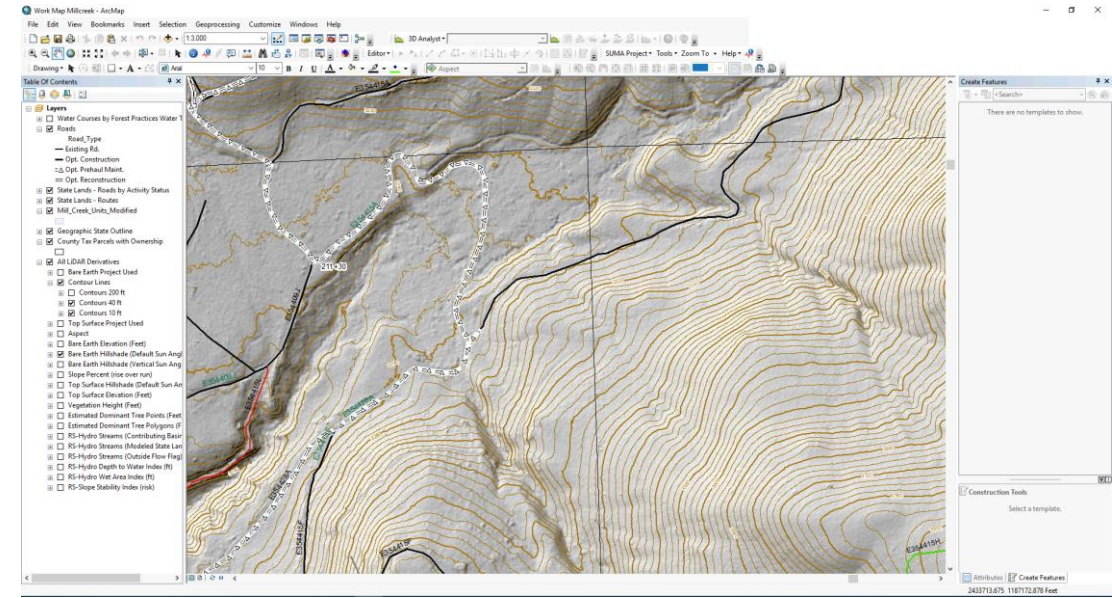
Introduction

- Ryan Skerbeck
- Born and raised in Port Angeles
- Graduated from Central Washington University
- Started in the Olympic Region as a Civil Engineer
- Recently moved into a Civil Engineer 3 position in Forest Resilience
- Sold our home in Forks and bought a home in Yakima over the holidays.



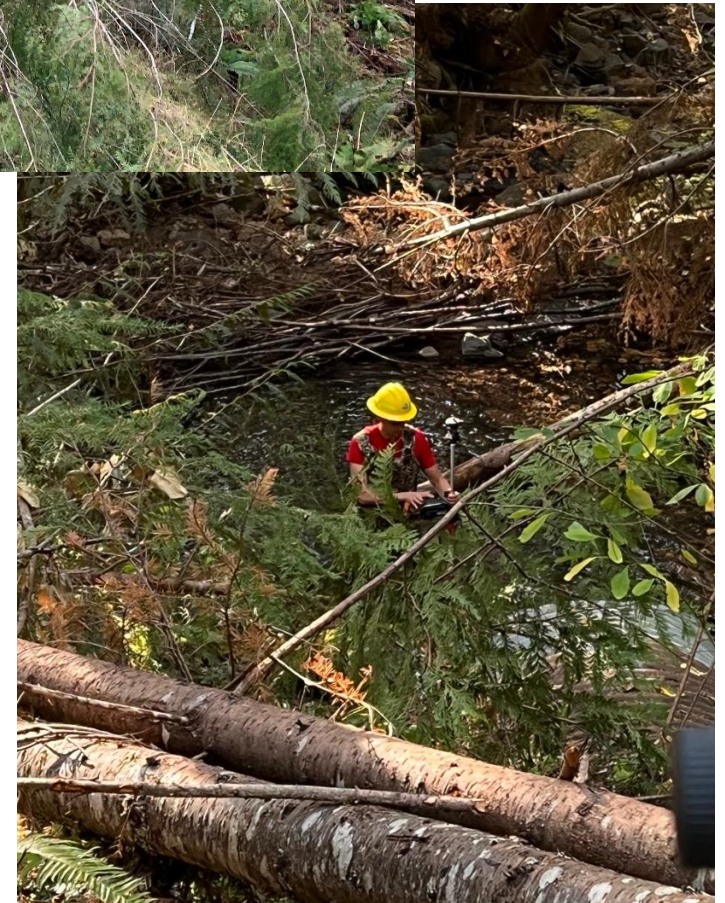
Planning for Timber Sales

- Sale area assessment
- Logging feasibility review
- Topography review and haul route assessment



Field Work

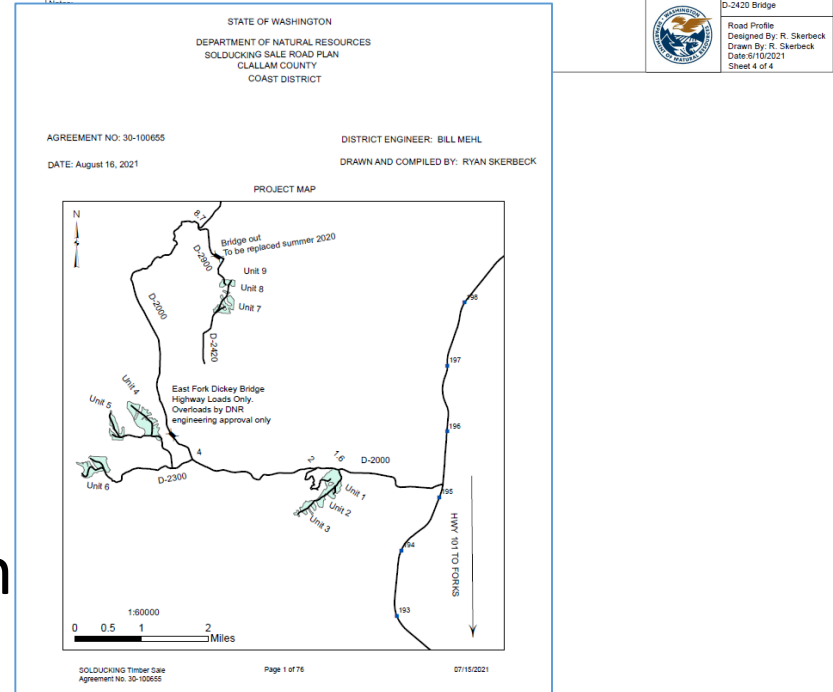
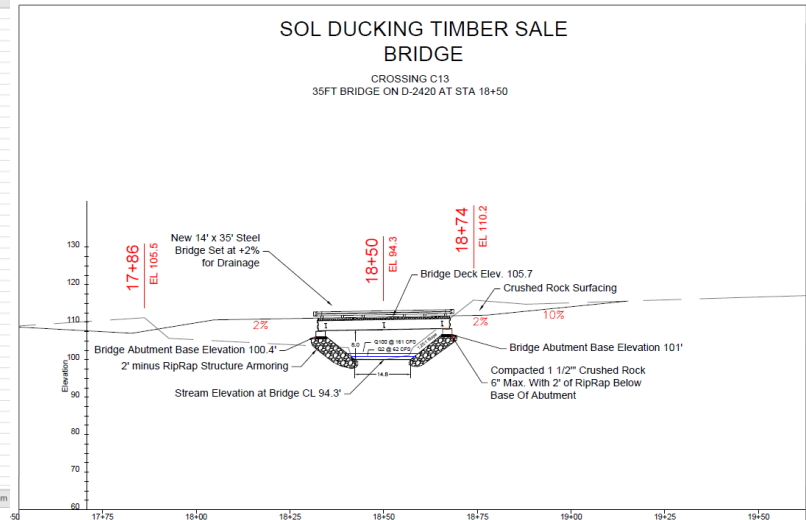
- Road inspection
- New road layout
- Crossing surveys
- Crossing design review with other agencies




Paperwork

- Mapping using ArcMap
- Crossing Design
- Project costing
- Timber Sale road plan compilation
- Submittal for Review and subsequent correction

SUMMARY - Road Development Costs																	
SALE NAME	TRC-2800	CONTRACT#	0	REGION	Olympic	DISTRICT	Coast									TOTAL	SHEET #2-4
ROAD NAME	11+10 SPUR	C-2800	C-2830	11+10 SPUR	4+35 SPUR	C-2800.4	1+70 SPUR	5+50 SPUR	C-2840	C-2870	C-2871				TOTAL		
ROAD TYPE	Construction	Pre-haul	Pre-haul	Pre-haul	Pre-haul	Pre-haul	Pre-haul	Pre-haul	Pre-haul	Pre-haul	Pre-haul				TOTAL		
NUMBER OF STATIONS	7	212	58	4	4	13	2	6	6	50	6				361.10	230.50	
SCALES	0	0	0	0	0	0	0	0	0	0	0				30x	60x	
12 CLEARING AND GRUBBING	1853	80	80	80	80	80	80	80	80	80	80				11853	80	
13 ROAD BUSHING	0	43,896	10,048	472	478	4234	431	459	404	481	400				46,450	4333	
14 EXCAVATION AND FILL	2,006	80	80	80	80	80	80	80	80	80	80				12,006	80	
15 ROAD GRADING	0	11,378	4,978	428	428	4895	411	436	437	432	439				12,340	11438	
16 DITCH CLEARING AND CONSTRUCTION	0	80	80	80	80	80	80	80	80	80	80				80	80	
17 ROCK TOTALS (CY) V&A (ROCK COSTS)																	
18 Backfill	3760	3,160	840	0	890	280	280	190	0	0	0	290	230	2,900	250	CY	
19 Surface	300	300	0	0	0	0	0	0	0	0	0	0	0	0	0	CY	
22 Overlays	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
24 CULVERTS AND FULLIES	80	80	80	80	80	80	80	80	80	11,232	80				11,232	80	
26 STRUCTURES	80	80	80	80	80	80	80	80	80	80	80				80	80	
27 MISC. EXPENSES	842	11,240	11,900	413	425	476	410	432	434	419	44,313				44,313	4330	
28 OVERHEAD	41,944	4979	11,960	4906	4925	4278	45	431	416	4725	4369				46,128	4699	
30 TOTAL COSTS	194,345	17,013	423,619	46,125	46,360	42,840	456	4361	4190	16,775	44,708				474,222	49,319	
32 COST PER STATION	\$2,820	\$33	\$408	\$1,531	\$1,462	\$204	\$33	\$469	\$33	\$177	\$795				\$202	\$43	
34 MOBILIZATION															\$6,100		
35 ROAD DEACTIVATION AND ABANDONMENT COSTS																	
36 Pt Work		\$25,000															
37																	
38 NOTE: The above table allows for profit and risk.																	
39 Show Totals																	
40 Plans to be furnished by:																	
41																	
42																	
43																	
44																	
45																	




 D-2420 Bridge
 Road Profile
 Designed By: R. Skerbeck
 Drawn By: R. Skerbeck
 Date: 8/10/2021
 Sheet 4 of 4

Road Building

- Contract administration for road construction
- AOP (Aquatic Organism Passage) installs



Post Haul

- Decommissioning / Abandonment

