

# DRAINAGE LISTING

MILE POST	DIAMETER WITH LENGTH (FT)				DOWNPIPE (FT)	REMARKS
	18	24	36	48		
<b>RD 70 - NO DRAINAGE IMPROVEMENTS</b>						
<b>RD 7010 - PRE HAUL REQUIREMENTS</b>						
0.28	34					
1.67	40					
1.73	34					CHANGE SKEW TO 110° AND GRADE TO 8%
1.87	32			20		
1.91		50				
1.95				60		CHANGE SKEW TO 110°
2.00	40					
<b>RD 7010 SUMMARY</b>						
	180	50	-	60	20	
<b>RD 7012 - PRE HAUL REQUIREMENTS</b>						
0.56		32				
<b>RD 7012 SUMMARY</b>						
	-	32	-	-	-	
<b>RD 7012-240 - PRE HAUL REQUIREMENTS</b>						
0.01	44					NEW INSTALLATION, TYPE 3, 100° SKEW AND 8% GRADE
0.06	36					
0.41	30					NEW INSTALLATION, TYPE 3, 60° SKEW AND 6% GRADE
<b>RD 7012-240 SUMMARY</b>						
	110	-	-	-	-	
<b>RD 7020 - PRE HAUL REQUIREMENTS</b>						
0.26	34					NEW INSTALLATION, TYPE 3, 60° SKEW AND 6% GRADE
0.34	34					NEW INSTALLATION, TYPE 3, 120° SKEW AND 12% GRADE
0.40	32					NEW INSTALLATION, TYPE 3, 120° SKEW AND 12% GRADE
<b>RD 7020 SUMMARY</b>						
	100	-	-	-	-	
<b>RD 7020-050 - PRE HAUL REQUIREMENTS</b>						
0.18			50			
<b>RD 7020-050 SUMMARY</b>						
	-	-	50	-	-	

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	18	24	36	48		
<b>RD 7020-110 - PRE HAUL REQUIREMENTS</b>						
0.00	60					NEW INSTALLATION, TYPE 3, 60° SKEW AND 8% GRADE
0.06			30			
0.23	30					NEW INSTALLATION, TYPE 3, 90° SKEW AND 8% GRADE
<b>RD 7020-110 SUMMARY</b>	<b>90</b>	<b>-</b>	<b>30</b>	<b>-</b>	<b>-</b>	
<b>RD 7013 - PRE HAUL REQUIREMENTS</b>						
0.49	36					
0.64		40				NEW INSTALLATION, TYPE 3, 60° SKEW AND 8% GRADE
0.76				30		
0.89				40		
<b>RD 7013 SUMMARY</b>	<b>36</b>	<b>40</b>	<b>-</b>	<b>70</b>	<b>-</b>	
<b>RD 7140 - PRE HAUL REQUIREMENTS</b>						
0.47	CONSTRUCT DRIVEABLE ROLLING ROCKED DIP					
0.88	CONSTRUCT DRIVEABLE ROLLING ROCKED DIP					
1.05	REMOVE 18-INCH CMP AND CONSTRUCT DRIVEABLE ROLLING ROCKED DIP					
1.10	REMOVE 18-INCH CMP AND CONSTRUCT DRIVEABLE ROLLING ROCKED DIP					
<b>RD 7140 SUMMARY</b>	CONSTRUCT 4 ROLLING ROCKED DIPS					
<b>RD 7000-118 - PRE HAUL REQUIREMENTS</b>						
0.04	CONSTRUCT DRIVEABLE ROLLING ROCKED DIP					
<b>RD 7000-118 SUMMARY</b>	CONSTRUCT 1 ROLLING ROCKED DIP					
<b>RD 7000-119 - PRE HAUL REQUIREMENTS</b>						
0.02	CONSTRUCT DRIVEABLE ROLLING ROCKED DIP					
<b>RD 7000-119 SUMMARY</b>	CONSTRUCT 1 ROLLING ROCKED DIP					
<b>RD 7200-023 - NO DRAINAGE IMPROVEMENTS REQUIRED BEFORE TIMBER HAUL</b>						
<b>RD 7200-023 - DRAINAGE IMPROVEMENTS REQUIRED AFTER TIMBER HAUL</b>						
0.01	REMOVE 24-INCH CMP AND CONSTRUCT GRADED CROSS DRAIN (SAME SKEW AND GRADE OF CULVERT)					
0.03	REMOVE 18-INCH CMP AND CONSTRUCT GRADED CROSS DRAIN (SAME SKEW AND GRADE OF CULVERT)					
0.05	CONSTRUCT GRADED CROSS DRAIN (120° SKEW AND 8% GRADE)					
0.24	CONSTRUCT GRADED CROSS DRAIN (120° SKEW AND 6% GRADE)					

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	18	24	36	48		
<b>RD 7200-023</b>						
<b>SUMMARY</b>	CONSTRUCT 4 GRADED CROSS DRAINS					
<b>RD 7200-024 - NO DRAINAGE IMPROVEMENTS REQUIRED BEFORE TIMBER HAUL</b>						
<b>RD 7200-024 - DRAINAGE IMPROVEMENTS REQUIRED AFTER TIMBER HAUL</b>						
0.08	REMOVE 18-INCH CMP AND CONSTRUCT GRADED CROSS DRAIN (SAME SKEW AND GRADE OF CULVERT)					
0.15	CONSTRUCT GRADED CROSS DRAIN (60° SKEW AND 8% GRADE)					
<b>RD 7200-024</b>						
<b>SUMMARY</b>	CONSTRUCT 2 GRADED CROSS DRAINS					
<b>RD 72 - PRE HAUL REQUIREMENTS</b>						
0.11	40				20	
0.31			70			
0.55			50			
<b>RD 72</b>						
<b>SUMMARY</b>	40	-	120	-	20	
<b>RD 7200-420 - PRE HAUL REQUIREMENTS</b>						
0.40	34					NEW INSTALLATION, TYPE 3, 60° SKEW AND 6% GRADE
0.44	30					NEW INSTALLATION, TYPE 3, 90° SKEW AND 6% GRADE
<b>RD 7200-420</b>						
<b>SUMMARY</b>	64	-	-	-	-	
<b>RD 7200-420 - DRAINAGE IMPROVEMENTS REQUIRED AFTER TIMBER HAUL</b>						
0.00	REMOVE 18-INCH CMP AND CONSTRUCT DITCH					
0.07	CONSTRUCT GRADED CROSS DRAIN (60° SKEW AND 8% GRADE)					
0.16	REMOVE 60-INCH CMP AND CONSTRUCT GRADED CROSS DRAIN (SAME SKEW AND GRADE OF CULVERT)					
0.31	REMOVE 18-INCH CMP AND CONSTRUCT GRADED CROSS DRAIN (SAME SKEW AND GRADE OF CULVERT)					
0.35	CONSTRUCT GRADED CROSS DRAIN (90° SKEW AND 6% GRADE)					
0.40	REMOVE 18-INCH HDPE PIPE AND CONSTRUCT GRADED CROSS DRAIN (SAME SKEW AND GRADE OF CULVERT)					
0.44	REMOVE 18-INCH HDPE PIPE AND CONSTRUCT GRADED CROSS DRAIN (SAME SKEW AND GRADE OF CULVERT)					
<b>RD 7200-420</b>						
<b>SUMMARY</b>	CONSTRUCT 6 GRADED CROSS DRAINS AND 60 FT OF DITCH					
<b>RD 7270 - NO DRAINAGE IMPROVEMENTS REQUIRED BEFORE TIMBER HAUL</b>						

