

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE TIMBER SALE CONTRACT (Applicable to Sales to be Scaled after Felling)		Name of Purchaser	
National Forest Idaho Panhandle	Ranger District Saint Maries	Region Northern	Contract Number
Sale Name Cedar Side Boards		Award Date	Termination Date 10/31/2013

The parties to this contract are The United States of America, acting through the Forest Service, United States Department of Agriculture, hereinafter called Forest Service, and _____ hereinafter called Purchaser.

Forest Service having advertised a sale at which either (1) Purchaser, whose required bid deposit is now held by Forest Service as an initial deposit, was the successful bidder, or (2) no bids were received and Purchaser having subsequently offered at least the minimum advertised price and made an initial deposit in the same amount as the bid deposit specified in the sale advertisement; and the parties hereto desiring to record their agreement; now therefore,

Unless provided otherwise herein, Forest Service agrees to sell and permit Purchaser to cut and remove Included Timber and Purchaser agrees to purchase, cut, and remove Included Timber.

This contract consists of three Divisions: A - Specific Conditions, B - Standard Provisions, and C - Special Provisions, together with Sale Area Map, Plans and specifications for developments (if any), and such attachments as may be provided for in Division C. Specific Conditions are numbered and apply to the Part, Section, Subsection, or Item of the Standard Provisions, as indicated hereunder. Other conditions of this contract are stated in Division C - Special Provisions.

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the award date.

UNITED STATES OF AMERICA

Two Witnesses: 1/

By: _____
 Contracting Officer

 (Name)

 (Title)

 (Address)

 (Purchaser) 2/

 (Name)

By: _____

 (Address)

 (Title)

 (Business Address)

I, ^{3/} _____, certify that I am the _____
 Secretary of the corporation named as Purchaser herein; that _____
 who signed this contract on behalf of Purchaser, was then _____
 of the corporation; that the contract was duly signed for and in behalf of the corporation by authority of its governing body, and is
 within the scope of its corporate powers.

**CORPORATE
 SEAL 4/**

INSTRUCTIONS:

- 1/ The signatures and addresses of two witnesses are required if Purchaser is other than a corporation.
- 2/ If Purchaser is a co-partnership, the signatures should be: XYZ Company, by John Doe, a member of the firm. If Purchaser is a corporation, form of signature should be: XYZ Company, by John Doe, President (or other officer or agent) and the seal of the corporation must be impressed or indicated.
- 3/ The certificate must be completed if Purchaser is a corporation.
- 4/ If the corporation has no corporate seal that fact shall be stated, in which case a scroll or adhesive seal shall follow the corporate name.

EXAMPLE 1/

Subcontractor Certification
Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion

Timber Sale Name: _____
 National Forest: _____

The prospective subcontractor (participants in lower tier covered transactions) certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this timber sale by any Federal department or agency.

Where the prospective subcontractor is unable to certify to any of the statements in this certification, such prospective subcontractor shall attach an explanation to this proposal.

Name of Subcontractor: _____
 Business Address: _____

_____ Date _____ Signature

1/ It is the Purchaser's responsibility to have subcontractors complete this certification and to maintain a file of completed certifications. This certification does not need to be returned to the Forest Service, except at the written request of the Contracting Officer.

The following conditions apply to the indicated portions of Division B – Standard Provisions issued June 2006.

A1 – Location and Area, applicable to B1.1

This Sale Area of 3351 acres more or less is located in: Sections 35 & 36, T43N, R1E, Sec 1,2,3,11,12, T42N, R1E, Sec 6,7, T42N, R2E and 31, T43N, R2E, Boise Meridian, Shoshone County, Idaho

A2 – Volume Estimate and Utilization Standards, applicable to B2.1, B2.2, B2.4, and B6.4

Species	Product	Estimated Quantity	Unit of Measure	Minimum Specifications				
				Merchantable Tree		Piece Required to be Removed		
				Diameter Breast High (d.b.h.) (inches)	Number of Minimum Pieces per Tree	Length (feet)	Diameter Inside Bark at Small End (inches)	^{1/}
Combined Softwood	Sawtimber	20,110	Ton	7	1	8	5.6	10.67
Combined Softwood	Non Sawtimber	1394	Ton	N/A	1	9	4.0	100% Sound
Timber Subject to Agreement under C2.11# - Units 15H,16H, & 17H								
Combined Softwood	Sawtimber	Unestimated	Ton	7	1	8	5.6	10.67
Combined Softwood	Non Sawtimber	Unestimated	Ton	N/A	1	9	4.0	100% Sound
Total Quantity		21,504 Ton						

^{1/} Enter Merchantability Factor (Merch. Factor) or Net Scale in % of Gross Scale, whichever is appropriate.

***Combined softwood under C2.11# called alpine fir for accounting purposes.**

A3 – Timber Designations, applicable to B2.3; acres are approximate:

	Number	Acres
Clearcutting Units (B2.31)		
Specified Road Clearing (B2.32)		20
Overstorey Removal Units (B2.33)		
Understorey Removal Units (B2.34)		
Individual Trees (B2.35)		317
Incompletely Marked Timber (B2.36)		

A4 - Timber Payment Rates, applicable to B3.1 and B4.0

A4a - For Species and Products to be Paid for at Rates Escalated under B3.2

Not Applicable

A4b - For Species and Products to be Paid for at Flat Rates

Species	Product	Unit of Measure	Rates per Unit of Measure				Required Deposits Slash Disposal \$
			Base \$	Advertised \$	Bid Premium \$	Bid (Flat) \$	
Combined Softwood	Sawtimber	Ton	1.92	7.80			2.70
Combined Softwood	Non-Saw	Ton	1.92	7.80			2.70
Timber Subject to Agreement under C2.11#							
Subalpine Fir	Sawtimber	Ton	1.89	1.89			.85
Subalpine Fir	Non-Saw	Ton	1.89	1.89			.85

For purposes of convenience in collection and bookkeeping, Bid Rates stated in A4 include payment of deposits for sale area betterment required pursuant to 16 USC 576b. Such deposits are not included as Required Deposits defined hereunder.

The following definitions are established for the terms used in A4:

Base Rates are the lowest rates of payment for timber that are authorized by this contract. Base Rates remain constant throughout the life of this contract and are not subject to change by rate redetermination, except for reduction under B3.31, B3.32, or B3.33.

Advertised Rates are the minimum acceptable Bid Rates for timber, exclusive of Required Deposits. These rates are those indicated by appraisal, with a cost allowance made for construction of Specified Roads listed in A7, but are never less than Base Rates.

Bid Premium Rates are the amounts by which Purchaser's bid is in excess of Advertised Rates. The Bid Premium Rates are constant during this contract, except as provided in B3.31, B3.32, and B3.33.

Bid Rates are the rates bid by Purchaser (exclusive of Required Deposits for slash disposal, road maintenance, and contract scaling) and are the sum of Advertised Rates and Bid Premium Rates. Until a rate redetermination becomes effective, the Bid Rate for species and products in A4a is the Tentative Rate that is subject to quarterly adjustment under B3.2; for species and products in A4b, the Bid Rate is the Flat Rate.

Required Deposits are deposits that Purchaser may be required to pay for slash disposal (16 USC 490), road maintenance (16 USC 537), and contract scaling (1994 Appropriations Act). Required Deposits may be adjusted as part of a rate redetermination or a Contract Term Extension. The table shows only Required Deposits for slash disposal; road maintenance deposits, if any, are given in C5.32#; and contract scaling deposits, if any, are given in C6.816#.

Base Index is the specified average of the lumber or other product selling value index used as the basis for computing adjustment in rates for variance in product selling value, as provided in B3.2.

A5 - Indices Used in Quarterly Adjustment, applicable to B3.2

Not Applicable

A6 - High Stumps, applicable to B6.412

Species	Product	Maximum Stump Height (inches)
All	All	12

A7 - Specified Roads, applicable to B5.2

Name and Date of Governing Road Specifications: Forest Service Standard Specifications for Construction of Roads & Bridges (1985), as amended and supplemented (english)

Project		Design Class	Appro. Length (mi./km.)	Sheet Numbers and Approval Date	Performance Responsibility		
					Survey	Design	Construction Staking 1/
Road No.	Name						
504F	Cedar Shake (C) (segment 0 to .92)	Single Lane - 15 mph	.57 / .92	1-35 02/20/2008	FS	FS	Purchaser BC
3321E	Christmas Bell (C) (segment 0 to .43)	Single Lane - 15 mph	.27 / .43	1-35 02/20/2008	FS	FS	Purchaser BC
3321B.2	Christmas Carol (C) (segment 0 to .97)	Single Lane - 15 mph	.6 / .97	1-35 02/20/2008	FS	FS	Purchaser BC
3321C.2	Christmas Jingle (C) (segment 0 to .84)	Single Lane - 15 mph	.52 / .84	1-35 02/20/2008	FS	FS	Purchaser BC
3335C	Misfire (C) (segment 0 to .8)	Single Lane - 15 mph	.5 / .8	1-35 02/20/2008	FS	FS	Purchaser BC
504E	Parallel (C) (segment 0 to 1.82)	Single Lane - 15 mph	1.13 / 1.82	1-35 02/20/2008	FS	FS	Purchaser BC
3557	Cedar Butte (R) (segment 0 to .53)	Single Lane - 15 mph	.33 / .53	1-35 02/20/2008	FS	FS	FS BC
3557A	Cedar Butte A Spur (R) (segment 0 to .4)	Single Lane - 15 mph	.25 / .4	1-35 02/20/2008	FS	FS	FS BC
3321B.1	Christmas Carol (R) (segment 0 to 1.53)	Single Lane - 15 mph	.95 / 1.53	1-35 02/20/2008	FS	FS	FS BC
3321C.1	Christmas Jingle (R) (segment 0 to .71)	Single Lane - 15 mph	.44 / .71	1-35 02/20/2008	FS	FS	FS BC
3321A	Christmas Time (R) (segment 0 to .58)	Single Lane - 15 mph	.36 / .58	1-35 02/20/2008	FS	FS	Purchaser BC
504G	Clarkia Overlook (R) (segment 0 to 1.21)	Single Lane - 15 mph	.75 / 1.21	1-35 02/20/2008	FS	FS	FS BC
504A	Clarkia Peak (R) (segment 0 to 1.93)	Single Lane - 25 mph	1.2 / 1.93	1-35 02/20/2008	FS	FS	Purchaser BC

1/ Indicate timing, i.e., before clearing (BC) or after clearing (AC). Applicable to B5.212.

A8 - Forest Service Engineering Completion Schedule, applicable to B5.21

Road No.	Road Name	Type of Work	Completion Date
NOT APPLICABLE			

A9 - Scaling Instructions and Specifications, applicable to B6.8

Name and Date of Governing Instructions: FSH2409.11a, National Forest Cubic Log Scaling Handbook, as amended and supplemented. Governing instructions for products contained in C Provisions as follows: C6.822, C6.823, C6.840, C6.849

Scaling Specifications					
Species	Product	Maximum Scaling Length (feet)	Trim Allowance		
			Diameter Range (inches)	Length Range (feet)	Trim Allowance (inches)
All	All	99	ALL	ALL	0

A10 - Scaling Services, applicable to B6.81

Species	Product	Unit of Measure	Site and Geographic Location	Method	Standard Estimated Cost per Unit \$
All	All	Ton	Forest Service approved locations with State Certified Scales	Total (100%) Weight Scale	.00

A11 - Minimum Scaling Volumes, applicable to B6.81

Minimum volume for Continuous Scaling Services in two-week period N/A Ton per scaler

Minimum volume for Intermittent Scaling Services N/A Ton on a N/A basis

A12 - Fire Precautionary Period, applicable to B7.2

May 10 to October 20, inclusive

A13 - Purchaser Responsibility to Furnish Crews and Equipment for:

Initial Fire Suppression, applicable to B7.3

Within 35 road miles

Fire Suppression Reinforcement, applicable to B7.312 and B 7.313

Within 35 road miles

A14 - Purchaser's Obligation per Operations Fire, applicable to B7.41

Maximum Amount: \$ \$26,300.00

A15 - Termination Date, applicable to B8.2

October 31, 2013

A16 - Normal Operating Season, applicable to B6.31, B6.66, B8.21 and B9.3

First Period: June 01 to October 15, inclusive

Second Period: _____ to _____, inclusive

A17 - Performance Bond Amount, applicable to B9.1

A18 - Downpayment, applicable to B4.211

Downpayment Amount: _____

A19 - Periodic Payment Amount, applicable to B4.213

Periodic Payment Determination Date Amount

Initial Payment: April 23, 2012 _____

Additional Payment: April 23, 2013 _____

A20 - Market-Related Contract Term Addition Producer Price Index, applicable to B8.212

Index Name: Softwood Lumber Index Number: 0811

A21 – Inapplicable Standard Provisions

The following listed Sections, Subsections, or Items of Division B – Standard Provisions – are hereby made inapplicable. (Instructions: List by reference number and title.)

- B2.35 – Individual Trees
- B4.211 -- Downpayment
- B6.23 – Protection of Land Survey Monuments
- B6.35 – Equipment Cleaning
- B6.84 – Accountability
- B6.841 – Route of Haul
- B6.85 – Scaling Lost Products

A22 – List of Special Provisions

The following listed special provisions are attached to and made a part of this contract as Division C. Provisions with reference numbers followed by # contain blanks into which data have been entered for this sale. (Instructions: List by reference number, title, and date.)

See Attached List.

C2.11# – TIMBER SUBJECT TO AGREEMENT. (2/71)
C2.2 - UTILIZATION AND REMOVAL OF INCLUDED PRODUCTS (4/03)
C2.301# - DESIGNATION OF RESERVE TREES. (5/04)
C2.303# - - DEAD TREES. (10/04)
C2.358# - INDIVIDUAL TREES (LEAVE TREE MARKING). (10/04)
C2.359# - INDIVIDUAL TREES (CUT TREE MARKING). (10/04)
C2.38# - SPECIES DESIGNATION. (2/02)
C5.113# - USE AGREEMENT BETWEEN FOREST SERVICE AND OWNER. (7/85)
C5.12# – USE OF ROADS BY PURCHASER. (6/99)
C5.123# - ROAD USE, LIABILITY INSURANCE. (3/90)
C5.13# – ROAD COMPLETION DATE. (4/04)
C5.210 – STAKING ERRORS BY PURCHASER. (10/04)
C5.31# – ROAD MAINTENANCE REQUIREMENTS. (7/01)
C5.315# - ROAD MAINTENANCE ON JOINT OWNERSHIP ROADS. (10/04)
C5.316# - SNOW REMOVAL. (02/02)
C5.32# – ROAD MAINTENANCE DEPOSIT SCHEDULE. (7/01)
C5.41# - CLOSURE TO USE BY OTHERS. (3/07)
C5.419# – SYSTEM ROAD STABILIZATION (3/07)
C6.10 - PREWORK CONFERENCE. (10/04)
C6.23 - PROTECTION OF LAND SURVEY MONUMENTS. (10/04)
C6.316# - LIMITED OPERATING PERIOD. (5/05)
C6.320# –RESERVE TREE PROTECTION. (10/04)
C6.331 - SAFETY (HELICOPTER OPERATIONS). (10/04)
C6.332 - SAFETY (TIMBER HAULING). (10/04)
C6.339 – ACCIDENT AND INJURY NOTIFICATION (4/05)
C6.351 # – WASHING EQUIPMENT. (7/07)
C6.4# - CONDUCT OF LOGGING. (10/82)
C6.406# - SITE CONDITION. (10/01)
C6.41# - SPECIAL FELLING REQUIREMENTS. (10/04)
C6.422 - HELICOPTER LANDING LOCATION AND CONSTRUCTION. (5/76)
C6.6 - EROSION PREVENTION AND CONTROL. (10/04)
C6.601# - EROSION CONTROL SEEDING. (3/07)
C6.661 - CURRENT OPERATING AREAS. (10/04)
C6.7 - HAZARD REDUCTION AND SITE PREPARATION. (3/89)
C6.71 - CHANGE IN SLASH TREATMENTS. (3/90)
C6.711 - BURNING BY PURCHASER. (10/79)
C6.822# - PRESENTATION FOR WEIGHT SCALING . (3/07)
C6.823 - VOLUME DETERMINATION. (10/04)
C6.840- WEIGHT ACCOUNTABILITY. (10/04)
C6.849 - ROUTE OF HAUL. (10/04)
C6.929 - REQUIREMENT FOR FOREST PRACTICES ACT NOTIFICATION. (10/01),
C7.2 - NORMAL PRECAUTIONS. (2/02)
C7.201 - FIRE PRECAUTIONS (HELICOPTER). (2/05)
C8.66# – USE OF TIMBER. (4/04)

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 504A

Road Name Clarkia Peak

Length (Miles) 1.20 (R)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	0.03	\$ 988.60	\$ 29.66
201(03)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 4, 6.1, 11.3, Log 8.1, & Stumps 4, 11.3, Utilization of Timber 1	D.Q.	Mile	0.03	\$ 540.74	\$ 16.22
201(08)	Individual Removal of Trees, Miscellaneous; Slash Treatment Methods for Top & Limbs 4, 11.3, & Logs 8.1, Utilization of Timber 1	A.Q.	Each	86.00	\$ 35.09	\$ 3,017.74
201(09)	Individual Removal of Stumps, Slash Treatment Methods 4, 11.3	A.Q.	Each	31.00	\$ 43.86	\$ 1,359.66
201A(01)	Roadway Brushing	D.Q.	Mile	1.17	\$ 426.88	\$ 499.45
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	284.00	\$ 1.88	\$ 533.92
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	0.16	\$ 322.81	\$ 51.65
306(01)	Reconditioning of Roadbed, Compaction A	D.Q.	Mile	1.17	\$ 691.23	\$ 808.74
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 526.32	\$ 526.32
603(01)18C	18" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	36.00	\$ 21.93	\$ 789.48
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	0.16	\$ 778.95	\$ 124.63

SUB-TOTAL: \$ 7,757.47

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 504E

Road Name Paraiso

Length (Miles) 1.13 (C)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	1.13	\$ 962.28	\$ 1,087.38
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1	D.Q.	Acre	5.51	\$ 2,173.68	\$ 11,976.98
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	7,488.00	\$ 1.66	\$ 12,430.08
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	4.63	\$ 322.81	\$ 1,494.61
304(10)	Crushed Aggregate, Type Surfacing, Grading D, Compaction B, (commercial source)	D.Q.	C.Y.	1,852.00	\$ 19.79	\$ 36,651.08
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 4,824.56	\$ 4,824.56
603(01)18C	18" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	68.00	\$ 19.30	\$ 1,312.40
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	4.63	\$ 778.95	\$ 3,606.54

SUB-TOTAL: \$ 73,383.63

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS

(Timber Sale)

Timber Sale Cedar Side Boards
 Road Name Cedar Shake

Road No. 504F
 Length (Miles) 0.57 (C)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	0.57	\$ 962.28	\$ 548.50
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1	D.Q.	Acre	3.00	\$ 2,173.68	\$ 6,521.04
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	4,292.00	\$ 1.66	\$ 7,124.72
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	2.58	\$ 322.81	\$ 832.85
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 1,228.07	\$ 1,228.07
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	2.58	\$ 778.95	\$ 2,009.69

SUB-TOTAL: \$ 18,264.87

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 504G

Road Name Clarkia Overlook

Length (Miles) 0.75 (R)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
201(03)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 4, 6.1, 11.3, Log 8.1, & Stumps 4, 11.3, Utilization of Timber 1	D.Q.	Mile	0.75	\$ 540.74	\$ 405.56
306(01)	Reconditioning of Roadbed, Compaction A	D.Q.	Mile	0.75	\$ 691.23	\$ 518.42
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 438.60	\$ 438.60

SUB-TOTAL: \$ 1,362.58

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3321A

Road Name Christmas Time

Length (Miles) 0.36 (R)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	0.36	\$ 988.60	\$ 355.90
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1	D.Q.	Acre	1.70	\$ 428.84	\$ 729.03
202(02)CM	Removal of Metal Pipe	A.Q.	Each	1.00	\$ 166.67	\$ 166.67
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	627.00	\$ 1.88	\$ 1,178.76
203(10)	Borrow Excavation, Placement Method 1	D.Q.	C.Y.	714.00	\$ 12.85	\$ 9,174.90
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	1.30	\$ 322.81	\$ 419.65
204(09)	Sediment Basin	A.Q.	Each	1.00	\$ 78.95	\$ 78.95
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 1,052.63	\$ 1,052.63
603(01)24C	24" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	36.00	\$ 25.44	\$ 915.84
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	1.30	\$ 778.95	\$ 1,012.64

SUB-TOTAL: \$ 15,084.97

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3321B.1

Road Name Christmas Carol

Length (Miles) 0.95 (R)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
201(03)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 4, 6.1, 11.3, Log 8.1, & Stumps 4, 11.3, Utilization of Timber 1	D.Q.	Mile	0.95	\$ 540.74	\$ 513.70
306(01)	Reconditioning of Roadbed, Compaction A	D.Q.	Mile	0.95	\$ 691.23	\$ 656.67
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 438.60	\$ 438.60
603(01)18C	18" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	32.00	\$ 21.93	\$ 701.76

SUB-TOTAL: \$ 2,310.73

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3321B.2

Road Name Christmas Carol

Length (Miles) 0.60 (C)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	0.60	\$ 962.28	\$ 577.37
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1	D.Q.	Acre	2.78	\$ 2,173.68	\$ 6,042.83
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	2,763.00	\$ 1.66	\$ 4,586.58
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	2.25	\$ 322.81	\$ 726.32
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 1,052.63	\$ 1,052.63
603(01)18C	18" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	32.00	\$ 19.30	\$ 617.60
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	2.25	\$ 778.95	\$ 1,752.64

SUB-TOTAL: \$ 15,355.97

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3321C.1

Road Name Christnes Jngle

Length (Miles) 0.44 (R)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
201(03)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 4, 6.1, 11.3, Log 8.1, & Stumps 4, 11.3, Utilization of Timber 1	D.Q.	Mile	0.44	\$ 540.74	\$ 237.93
306(01)	Reconditioning of Roadbed, Compaction A	D.Q.	Mile	0.44	\$ 691.23	\$ 304.14
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 438.60	\$ 438.60
603(01)18C	18" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	64.00	\$ 21.93	\$ 1,403.52

SUB-TOTAL: \$ 2,384.19

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS

(Timber Sale)

Timber Sale Cedar Side Boards
 Road Name Christmas Jingle

Road No. 3321C.2
 Length (Miles) 0.52 (C)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	0.52	\$ 962.28	\$ 500.39
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1	D.Q.	Acre	2.29	\$ 2,173.68	\$ 4,977.73
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	2,053.00	\$ 1.66	\$ 3,407.98
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	1.79	\$ 322.81	\$ 577.83
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 964.91	\$ 964.91
603(01)18C	18" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	100.00	\$ 19.30	\$ 1,930.00
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	1.79	\$ 778.95	\$ 1,394.32

SUB-TOTAL: \$ 13,753.16

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3321E

Road Name Christmas Bell

Length (Miles) 0.27 (C)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	0.27	\$ 962.28	\$ 259.82
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1	D.Q.	Acre	1.34	\$ 2,173.68	\$ 2,912.73
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	1,475.00	\$ 1.66	\$ 2,448.50
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	1.12	\$ 322.81	\$ 361.55
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 526.32	\$ 526.32
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	1.12	\$ 778.95	\$ 872.42

SUB-TOTAL: \$ 7,381.34

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3335C

Road Name Misfire

Length (Miles) 0.50 (C)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
173(01)A	Establish Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	D.Q.	Mile	0.50	\$ 962.28	\$ 481.14
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1	D.Q.	Acre	2.46	\$ 2,173.68	\$ 5,347.25
203(01)H	Excavation Placement Method 1, Includes Sta. Yd. Haul	D.Q.	C.Y.	3,008.00	\$ 1.66	\$ 4,993.28
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	2.05	\$ 322.81	\$ 661.76
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 1,140.35	\$ 1,140.35
603(01)18C	18" CMP (incl culv exc), Thickness: Steel 0.064 Thickness: Aluminum 0.060, Method C	A.Q.	L.F.	122.00	\$ 19.30	\$ 2,354.60
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	2.05	\$ 778.95	\$ 1,596.85

SUB-TOTAL: \$ 16,575.23

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3557

Road Name Cedar Butte

Length (Miles) 0.33 (R)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
201(03)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 4, 6.1, 11.3, Log 8.1, & Stumps 4, 11.3, Utilization of Timber 1	D.Q.	Mile	0.33	\$ 1,363.84	\$ 450.07
203(08)	Excavation, Placement Method 1	D.Q.	Mile	0.33	\$ 1,223.59	\$ 403.78
204(01)	Temporary Seeding and Fertilizing	D.Q.	Acre	0.76	\$ 322.81	\$ 245.34
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 438.60	\$ 438.60
625(07)	Seeding, Dry Method (With Mulch)	D.Q.	Acre	0.76	\$ 778.95	\$ 592.00

SUB-TOTAL: \$ 2,129.79

TOTAL ALL ROADS: \$ 177,422.36

SCHEDULE OF ITEMS
(Timber Sale)

Timber Sale Cedar Side Boards

Road No. 3557A

Road Name Cedar Butte A Spur

Length (Miles) 0.25 (R)

Item Number	Description	Method of Meas.	Unit	Quantity	S.R.C Unit Price	Total
601(01)	Mobilization	L.S.Q.	L.S.	1.00	\$ 131.58	\$ 131.58
640(01)	Furnish and Install Road Closure Device, Type Gate, Size 14'0" - 16'6"	A.Q.	Each	1.00	\$ 1,546.85	\$ 1,546.85

SUB-TOTAL: \$ 1,678.43

TOTAL ALL ROADS: \$ 177,422.36



REPLY TO: 7700
2450

DATE: Dec. 5, 2007

SUBJECT: Special Project Specifications

Cedar Side Boards Proposed Timber Sale

04 DISTRICT

TO: Forest Supervisor

RO SALE (Check one)

SO SALE

DIST. SALE

The following Special Project Specifications are recommended for use in
the Timber Sale Contract for the above referenced sale.

Regional: Numbers 713

Forest: Numbers 101, 106, 201A, 206A, 306, 603, 640

Revised Regional: Numbers 102

Revised Forest: Numbers 104, 173, 201, 202, 203, 204, 204tbl, 207, 304, 625

Unique: Numbers

PREPARED BY: B. Briggs

Approval of the Forest and attached Revised and Unique SPS's is requested.

Brent A. Briggs
Infra Team Leader



Project Name:		Cedar Side Boards		Road Number....		504A	504E	504F	504G	3321A	3321B.1	3321B.2	Revision
Date Prepared:		12/5/07		Const.-Reconst..		1.2 (R)	1.13 (C)	0.57 (C)	0.75 (R)	0.36 (R)	0.95 (R)	0.6 (C)	Date
Spec No.	Title												
SPS 101	Abbreviations												
102	Definitions												
SPS 102	Definitions												
103	Intent of Contract												
104	Maintenance for Traffic												
SPS 104	Maintenance for Traffic												
106	Measurement & Payment												
SPS 106	Measurement & Payment												
173	Construction Staking, Location Line												
SPS 173	Construction Staking, Location Line												
201	Clearing & Grubbing												
SPS 201	Clearing & Grubbing												
SPS 201A	Roadway Brushing												
202	Removal of Structures & Obstructions												
SPS 202	Removal of Structures & Obstructions												
203	Excavation & Embankment												
SPS 203	Excavation & Embankment												
204	Soil Erosion & Pollution Control												
SPS 204	Soil Erosion & Pollution Control												
206A	Excavation for Culverts & Minor Structures												
SPS 206A	Excavation for Culverts & Minor Structures												
207	Developing Water Supply & Watering												
SPS 207	Developing Water Supply & Watering												
304	Aggregate Base & Surface Course												
SPS 304	Aggregate Base & Surface Course												
306	Reconditioning Existing Road												
SPS 306	Reconditioning Existing Road												
601	Mobilization												
603	Metal Pipe												
SPS 603	Metal Pipe												
625	Seeding & Mulching												
SPS 625	Seeding & Mulching												
703	Aggregates												
707	Metal Pipe												
713	Roadside Improvement Materials												
SPS 713	Roadside Improvement Materials												

Project Name:		Cedar Side Boards		Road Number....		3321C.1		3321C.2		3321E		3335C		3557		3557A		Revision	
Date Prepared:		12/5/07		Const.-Reconst..		0.44 (R)		0.52 (C)		0.27 (C)		0.5 (C)		0.35 (R)		0.25 (R)		Date	
Spec No.	Title																		
SPS 101	Abbreviations																		
102	Definitions																		
SPS 102	Definitions																		
103	Intent of Contract																		
104	Maintenance for Traffic																		
SPS 104	Maintenance for Traffic																		
106	Measurement & Payment																		
SPS 106	Measurement & Payment																		
173	Construction Staking, Location Line																		
SPS 173	Construction Staking, Location Line																		
201	Clearing & Grubbing																		
SPS 201	Clearing & Grubbing																		
SPS201A	Roadway Brushing																		
202	Removal of Structures & Obstructions																		
SPS 202	Removal of Structures & Obstructions																		
203	Excavation & Embankment																		
SPS 203	Excavation & Embankment																		
204	Soil Erosion & Pollution Control																		
SPS 204	Soil Erosion & Pollution Control																		
206A	Excavation for Culverts & Minor Structures																		
SPS 206A	Excavation for Culverts & Minor Structures																		
207	Developing Water Supply & Watering																		
SPS 207	Developing Water Supply & Watering																		
304	Aggregate Base & Surface Course																		
SPS 304	Aggregate Base & Surface Course																		
306	Reconditioning Existing Road																		
SPS 306	Reconditioning Existing Road																		
601	Mobilization																		
603	Metal Pipe																		
SPS 603	Metal Pipe																		
625	Seeding & Mulching																		
SPS 625	Seeding & Mulching																		
640	Road Closure Devices																		
SPS 640	Road Closure Devices																		
703	Aggregates																		
707	Metal Pipe																		
713	Roadside Improvement Materials																		
SPS 713	Roadside Improvement Materials																		

IPNF SPECIAL PROJECT SPECIFICATION
Cedar Side Boards Timber Sale

101.02 Delete in its entirety and substitute the following:
Pay Items & Pay Units

"&	And	MATL.....	Material
AC.....	Acre	M.....	Metal
AL.....	Aluminum	MAX.....	Maximum
ASP.....	Asphalt	MBF.....	One Thousand Feet Board Measure
AVAIL.....	Available	MGALS.....	One Thousand Gallons
BARR.....	Barrier	MHD.....	Method
BKN.....	Broken	MI.....	Mile
BST.....	Bituminous Surface Treatment	MIN.....	Minimum
CATTLEGD.....	Cattleguard	MISC.....	Miscellaneous
CLEAR (CLG).....	Clearing	MP.....	Mile Post
CLEAR/GRUB.....	Clearing & Grubbing	MSF.....	One Thousand Square Feet
CMP.....	Corrugated Metal Pipe	OTBC.....	Open Top Box Culvert
COMP.....	Compaction	P M.....	Placement Method
CONC.....	Concrete	PVC.....	Polyvinylchloride
CONST.....	Construction (Construct)	RD.....	Road
CTD.....	Coated (Coating)	RECOND.....	Reconditioning
CUSH.....	Cushion	RECONST.....	Reconstruction (Reconstruct)
CY (CU YD).....	Cubic Yard	REFL.....	Reflectorized
CY MI (CYM).....	Cubic Yard Mile	RT.....	Right
DIA.....	Diameter	STMP (STP).....	Stump(s)
DL.....	Double Lane	SB.....	Self Balance
DWGS.....	Drawings	SEC.....	Section
EA.....	Each	SF.....	Square Foot (Feet)
EMB.....	Embankment	SL.....	Single Lane
EXC.....	Excavation	SLD.....	Solid
F&I.....	Furnish & Install	ST.....	Slash Treatment
FDN.....	Foundation	STA.....	Station (100 Feet)
FT.....	Foot (Feet)	STA YD.....	Station Yard
FUNC.....	Function	STL.....	Steel
GAL.....	Gallon	STR (STRUC).....	Structural
GR.....	Grade	SY (SQ YD).....	Square Yard
GRUB.....	Grubbing	SZ.....	Size
HDPE.....	High Density Polyethylene	T&L.....	Tops & Limbs
HOR.....	Horizontal	TBR.....	Timber
HR.....	Hour	TH.....	Thickness
HT.....	Height	TM.....	Ton Mile
I.....	Install	TO.....	Turnout
IN.....	Inches	TOL.....	Turnout Left
INCL.....	Including (Includes)	TOR.....	Turnout right
IND.....	Individual	TRS.....	Trees
JCT.....	Junction	UOT.....	Utilization of timber
L.....	Logs	VERT.....	Vertical
LBS.....	Pounds	W.....	Width
LDG.....	Loading	W/.....	With
LF (LIN FT).....	Linear (lineal) Foot	W/O.....	Without
LS.....	Lump Sum	X-SEC.....	Cross Section
LT.....	Left	YD.....	Yard

Section 102 - Definitions

Add the following:

Noxious Weeds or Weeds. Any exotic plant species established or that may be introduced in the State which may render land unfit for agriculture, forestry, livestock, wildlife, or other beneficial uses and which is designated by the State's Department of Agriculture, or by the County's weed management district, or by other appropriate agencies having jurisdiction, or as listed on the current "All States Noxious Weed List."

Shop Drawings. Incidental design sheets and/or drawings which the Contractor is required to submit to the Forest Service. Shop drawings shall conform to the contract requirements, but they are not part of the contract drawings. They may be drawings, diagrams, schedules, performance charts, brochures, and similar data prepared by the Contractor, subcontractor, manufacturer, suppliers, or distributors that illustrate how specific portions of the work are to be fabricated or installed.

Weed Management District. A weed management district is any area of land identified for the purpose of weed management or control. Such an identified land area may be, but is not limited to one of the following: a project or job site, a County, two or more Counties, or a National Forest."

Full Bench. Construction or reconstruction consisting of an area where all material is excavated and removed, and where no material is embanked or side cast.

Section 104 - Maintenance for Traffic

104.01

Roads to be Constructed Delete the second paragraph and replace with the following:

“All ungated roads shall remain open during reconstruction with a three hour maximum delay of traffic.

Prior to the Contractor shutting down any operations, the Contractor shall take such precautions as may be necessary to prevent damage to the project, such as approaches, crossings or intersections; and shall make provisions for normal drainage and minimization of erosion.

In order to reduce resource damage, traffic behind gate on roads 504A, 3321, and 3335 shall be controlled as follows:

The Contractor and the Forest Service shall provide and maintain their own locks for each existing gate in order to limit vehicular use to construction and administrative related traffic only. The contractor shall provide a Multiple Locking Device for the gate of an acceptable design that meets the Contracting Officer's approval. The gates shall be closed and locked at all times except to allow passage of authorized traffic unless otherwise approved by the Contracting Officer.”

104.02

Use of roads

Add the following:

By Contractor

The Contractor shall maintain all unpaved Forest Service controlled roads used for hauling of materials under this contract. This work includes surface blading, dust abatement and ditch cleaning as directed by the Contracting Officer. No material shall be side cast onto slopes within 100 ft. slope distance of live streams, 100 ft. of stream channel crossings, or within 20 ft. of cross drain culverts.

104.03

Payment

Add the following:

“The cost of this work has been included in and shall be incidental to Pay Item 203(01)H, and 306(01).”

Section 106 - Measurement & Payment

106.03

Units of Under "(a) Cubic Yard, " add the following:
Measurement

"(4) Material, Compacted in Place. The measurement computed using measurements of length, depth, and width for computation of quantities shall be made along the project when Actual Quantities are shown on the SCHEDULE OF ITEMS."

Section 173 - Construction Staking, Location Line

DESCRIPTION

173.01 Add the following to the second sentence of the first paragraph:
Work

"and re-establishing missing preliminary survey points."

Add the following to the last paragraph:

"Construction staking shall be accomplished by personnel experienced in construction staking methods to the standards as SHOWN ON THE DRAWINGS and as listed in the SCHEDULE OF ITEMS. The party chief for construction staking shall be approved in writing by the Contracting Officer."

MATERIALS

173.02 Add:
Stakes

"The nominal dimension of the wooden stakes shall be:

3/8"X 1-3/4"X 18": For guard, reference, slope,
and other stakes.

3/8"X 1-3/4"X 3': For clearing limit lath.

Colors used for paint or flagging for marking the stakes, lath and clear limits shall be established by the Contracting Officer."

173.03 Add:
Survey Note
Paper &
Books

"When field notes are generated by the Contractor, bound field books shall be used."

173.04 Delete the first sentence and add:
Government
Furnished
Documents

"The Contractor will be furnished by the Government, drawings, P-line survey notes, slope stake notes, computer printouts, and other necessary information for construction staking the project."

STAKING
REQUIREMENTS

173.05 Add the following:
Precision

"The work shall meet the following precision: Slope distance accuracy for setting slope stakes shall be 0.5 foot, or 2.0 percent of the slope distance, from the control point to the slope stake, whichever is the larger value.

Slope Distance accuracy for reference stakes set from slope stakes shall be 0.5 foot, or 2.0 percent of the slope distance, measured from the slope stake to the reference, whichever is the larger value. Accuracy of horizontal measurement from the slope stake to the clearing limit shall be 1.0 foot."

173.06 Delete in entirety and add the following:
Staking
Notes

"Staking notes shall be neatly kept in a standard format, approved by the Contracting Officer, in securely fastened field books with stiff covers. Lettering shall be at least 0.15 inch high and legible at a distance of 2.5 feet. Errors shall be deleted by lining out. Crew names, positions, and date shall be recorded in the stake notes at the beginning of each day's work. The Party Chief, or notekeeper, must sign or initial the beginning sheet of each day's work. All notes, including the originals, shall become the property of the Forest Service. All completed field books shall be reviewed, signed, and dated by the Purchaser prior to submittal to the Contracting Officer. All information recorded on the reference stake shall be recorded in the stake notes. In addition the horizontal distance from centerline to each clearing limit shall be recorded.

173.07 Delete in entirety and add the following:
Location
Survey Line

"A preliminary line has been established on the ground for this project. Missing points shall be re-established and marked on the ground with a new stake containing the original information by the Contractor.

173.08 &
173.09
Clearing
Limits,
Slope
Stakes &
References

Delete in entirety and add the following:

"The contractor shall establish slope stakes, clearing limits and reference points by one of the following methods as shown in the SCHEDULE OF ITEMS:

173(01)A - Clearing Limit and Slope Stake Combined - Cutside(s) and Through Fills.

Clearing limits shall be established on each side of the designed centerline by using the slope distance information given in the staking notes and verify the minimum clearing limit distances shown on the typical section sheet of the drawings. This point shall be marked by firmly setting a lath in the ground for outside and through fills. The clearing limit on the fill side in a cut/fill section shall be marked with a flag. The stakes/flag shall be set on lines at approximate right angles to tangents and normal to the central bearing of intersecting tangents. The clearing stake on the cut side or on both sides in through fill areas shall be marked as shown in figure 173-1 with the following information: The designed cut or fill to ditch grade at the slope stake point if there is a ditch or to shoulder grade if there is no ditch; the horizontal distance from the catch point to centerline; whether cut or fill is to ditch grade or shoulder grade; the slope ratio; the width "W" from inside shoulder to outside shoulder; the station; the diameter and length of culvert if section is a culvert section. Any clearing lath damaged or destroyed during clearing operations shall be replaced before starting excavation.

After each section has been slope staked, reference stakes shall be established for slope stake information a minimum of 10 feet slope distance outside the clearing limits, with the following information recorded on them as shown in figure 173-1: The slope distance from the reference stake to the clearing stake and the information shown on the slope stake.

173(01)B - Clearing Limit and Slope Stake Combined - Both Sides.

The requirements for this pay item shall be the same as 173(01)A except that slope stakes and reference stakes shall be established on both sides of the designed centerline at all sections.

173(01)C - Clearing Limit and Slope Stake Combined - Outside(s) and Through Fills and Layer Place Fills.

Clearing limits shall be established on each side of the designed centerline by using the slope distance information given in the staking notes and verify the minimum clearing limit distances shown on the typical section sheet of the drawings. This point shall be marked by firmly setting a lath in the ground for outside and through fills. The clearing limit on the fill side in a cut fill section shall be marked with a flag. The stakes/flag shall be set on lines at approximate right angles to tangents and normal to the central bearing of intersecting tangents. The clearing stake on the cut side(s) or on both sides in through fill areas shall be marked as shown in figure 173-1 with the following information: The designed cut or fill to ditch grade at the slope stake point if there is a ditch or to shoulder grade if there is no ditch; the horizontal distance from the catch point to centerline; whether cut or fill is to ditch grade or shoulder grade; the slope ratio; the width "W" from inside shoulder to outside shoulder; the station; the diameter and length of culvert if section is a culvert section. Any clearing lath damaged or destroyed during clearing operations shall be replaced before starting excavation.

In layer place areas, a fill stake shall be marked as shown in figure 173-1 with the following information: The designed fill to shoulder grade, the horizontal distance from the catch point to centerline, the slope ratio, the station, and the slope distance from the reference stake to the designed toe of fill. The fill stake shall be placed alongside the reference stake(s).

After each section has been slope staked, reference stakes shall be established a minimum of 10 feet slope distance outside the clearing limits, with the following information recorded on them as shown in figure 173-1: The slope distance from the reference stake to the clearing stake and the information shown on the slope stake.

173(01)D - Establishment of Fill Stakes in Layer Place Fill Areas.

Toe of fill(s) shall be marked by firmly setting the fill stake in the ground using slope distance information as marked on the fill stake and measured from the reference point. The fill stakes shall be established after clearing has been completed and prior to embankment placement.

173(02)A - Clearing Limit and Slope Stake Separate - Cut Side(s) and Through Fills.

The requirements for this pay item shall be the same as 173(01)A except that the slope stake shall be placed at the slope stake point and shall have the slope stake information recorded on it. The Contractor may elect to mark the slope stake point with a "dummy " stake meeting the requirement of 173.02 and set the slope stake back with the reference stake until after clearing operations. In all cases the slope stake shall be reset to the slope stake point prior to starting excavation. The slope distance marked on the reference stake shall be from the reference stake to the slope stake.

173(02)B - Clearing Limit and Slope Stake Separate - Both Sides.

The requirements for this pay item shall be the same as 173(02)A except that slope stakes and reference stakes shall be established on both sides of the designed centerline at all sections."

173.11
Staking
Culverts

Delete in entirety and substitute the following:

"All 36" and larger (or 24" and larger in a live stream) culverts shall be staked by hand level method, or equivalent, with stakes driven on the centerline of the culvert at each end of the culvert. In addition, reference stakes and pipe lath shall be a minimum of 10 feet beyond the anticipated construction limits. Stakes shall be marked with the following:

- (a) Pipe Lath: . . . Station, diameter, length, and type of culvert (such as 18"X 36' CMP).
- (b) Reference Stake: The vertical and horizontal distances from the stake to the invert at the end of the pipe and the station.
- (c) End-of-Pipe Stake: Vertical distance to flowline."

173.14
Marking
Stakes

Delete and substitute with the following:

"All stakes shall be marked with a stake pencil that leaves an imprint in the stake. The imprint is required on all marked stakes and all markings shall be legible. Other methods of permanent marking may be approved in writing by the Contracting Officer. Stakes shall be marked as shown in Figure 173-1."

173.15 After the first paragraph add the following:

Approval and
Maintenance

"Stake notes shall be returned by the contractor to the Contracting Officer for approval and shall be in the original binder and contain the original number of pages as when furnished to the contractor. The Contracting Officer shall have 15 days from the date the notes are turned in to inspect the work and notify the contractor as to whether the work is acceptable."

MEASUREMENT

173.16 Add the following:

Method

"Construction staking includes re-establishing missing portions of the location line, setting reference stakes, slope stakes, culvert stakes, and clearing limits. The quantity shall be the number of miles, measured to the nearest 0.01 mile, of centerline completed and accepted."

PAYMENT

173.17 Delete Pay Items and add the following:

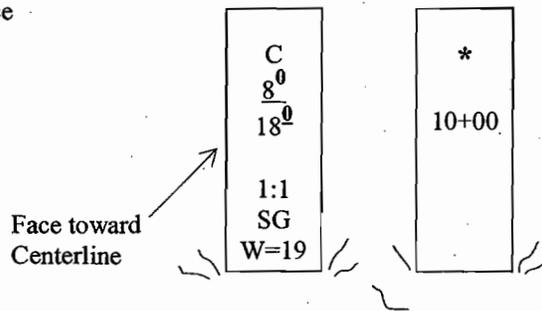
Basis

<u>Pay Item</u>	<u>Pay Unit</u>
173(01)A - Establishing Slope Stakes, Cut Side(s) and Through-Fills, Clearing Limit and Slope Stake Combined.	Mi.
173(01)B - Establishing Slope Stakes, Both Sides, Clearing Limit and Slope Stake Combined.	Mi.
173(01)C - Establishing Slope Stakes, Cut Side(s) and Through-Fills, Clearing Limit and Slope Stake Combined.	Mi.
173(01)D - Establishing of Fill Stakes in Layer Placed Fill Areas . . .	Mi.
173(02)A - Establishing Slope Stakes, Cut Side(s) and Through-Fills, Clearing Limit and Slope Stake Separate.	Mi.
173(02)B - Establishing Slope Stakes, Both Sides, Clearing Limit and Slope Stake Separate.	Mi.

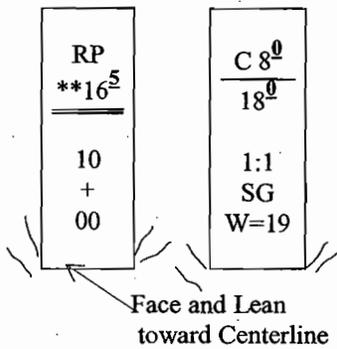
* Note: When using stakes 21" and Longer, the Station may be written on the front of the stake.

** Slope distance from RP to Slope Stake

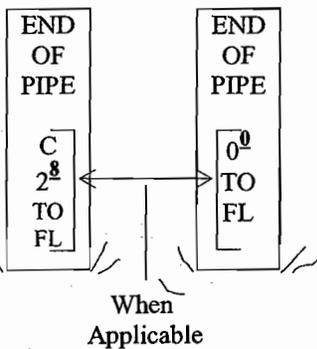
SLOPE STAKES



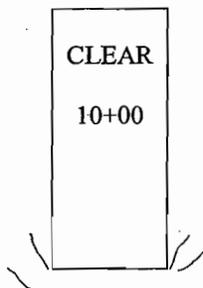
REFERENCE STAKES



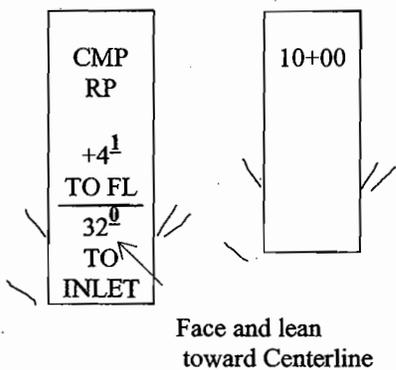
END-OF-PIPE STAKES



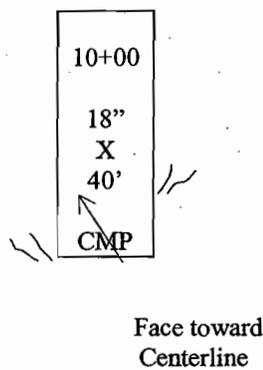
CLEARING LATH



CULVERT REFERENCE STAKES



PIPE LATH



LEGEND

- DG = Ditch Grade
- SG = Shoulder Grade
- C = Cut
- F = Fill
- RP = Reference Point
- FL = Flow Line
- CMP = Corrugated Metal Pipe
- W = Width between shoulders.

Figure 173 -1 Construction Stakes

Delete Method (8) and replace with:

"(8.1) Decking Unmerchantable Material.
(DECKING FIREWOOD)

All reasonably sound logs which do not meet utilization standards but can be used for firewood and are 5 inches or more in diameter and 6 feet or more in length shall be limbed and bucked into lengths not to exceed 32 feet and decked outside the roadway.

The logs shall be decked in a stable position at locations approved by the Contracting Officer. If logs are decked on the lower side of the road they shall be decked in areas where the fill does not exceed 15 feet in height and shall be placed between the roadbed and the windrow or slash piles and not covered by the windrow or slash piles. Decks shall not be closer than 5 feet to the shoulder. Logs not suitable for firewood shall be treated by one or more of the slash treatment methods specified for tops and limbs."

Delete Method (11) and replace with:

"(11.1) Piling Construction Slash.
(LARGE CONTINUOUS PILES)

All construction slash shall be placed in piles at the toe of the embankment. Piles shall be stable, compact, uniform, neat in appearance, reasonably free of dirt with all material laid parallel to the roadway. Stumps shall not be placed on top of the pile, but shall be placed in the lower half, on the uphill side of the pile, in a stable position so they will not roll. Piles may extend beyond the clearing limits into adjacent natural openings. Slash may be piled on standing trees. Grubbing of stumps in piling areas is not required.

Length of piles shall not exceed 200 feet with breaks of at least 20 feet between piles. Other breaks of at least 20 feet shall be constructed where big game trails or migratory routes cross the roadway and breaks of at least 20 feet where cutting unit boundaries marked on the ground intersect the roadway.

At ditch relief culvert locations or at culvert locations in dry or intermittent wet draws, the piles shall not be broken but shall be placed a minimum of 10 feet below the culvert outlet. At culvert locations in live streams piles shall not be broken but shall be continued at the toe of the embankment over the top of the culvert. No slash shall be allowed to restrict the flow of water from the culvert. No stumps shall be placed in the piles within 50 feet of the culvert. All piles within 50 feet of the culvert shall be placed and compacted to insure continuous contact with the ground surface to act as a silt barrier. If there is insufficient slash material available in the immediate area of the culvert location, material within 500 feet of either side of the culvert shall be conserved and used to construct the piles at the culvert location. Height of the piles shall be determined by the following:

<u>Height of Fill</u>	<u>Height of Piles above Subgrade</u>
5 feet or less	10 feet maximum
greater than 5 feet	5 feet maximum

All slash shall be kept a minimum of 5 feet from the shoulder of the road and in no case shall the piles reduce sight distance to less than 80 feet."

"(11.3) Piling and Reducing Slash.

(SMALL PILES AT TOE AND BURNED BY THE FOREST SERVICE)

Construction slash shall be piled in small, compact piles, free of dirt, inside the clearing limits or in adjacent natural or man-made openings. These openings will be selected 50 feet to 200 feet apart in locations where a minimum amount of merchantable trees will be cut to accommodate the piles. All merchantable trees shall be removed within 10 feet of the finished piles. Protruding material shall be trimmed from slash piles and repiled. Stumps 12 inches in diameter or greater, shall be split so that all pieces are less than 12 inches maximum dimension measured across the cut face. The piles shall be left for later burning by the Forest Service."

SECTION 201A - ROADWAY BRUSHING

DESCRIPTION

201A.01 This work shall consist of removing limbs, residual slash, live roadside brush, and
Work small trees between, or protruding into, the designated brushing limits. The brushing
limits shall be AS SHOWN ON THE DRAWINGS. Brushing areas shall include turnouts.

CONSTRUCTION

201A.02 All brush and small trees (6 inches diameter, or less, at the point of cut) inside the
Clearing & brushing limits and outside the roadbed shall be cut off no higher than 4 inches
Brushing above ground level (6 inches for machine brushing). Should rocks or other obstructions
 be encountered, the cutting height shall be no higher than 6 inches above the obstruction.
 Live trees with a diameter larger than 6 inches should be limbed to a height of 15 feet
 above the road surface. All brush and trees located on the roadbed shall be cut as nearly
 flush to the road surface as possible so stumps will not become a hazard to automobile
 tires.

201A.03 Windfalls lying within or across the brushing limits shall be limbed and cut off at a
Windfalls horizontal distance of 10 feet from each shoulder or at the brushing limit, which ever is
 least. Cut windfall material shall be disposed of as slash.

201A.04 No brushing debris shall be deposited in the traveled way road junctions and/or
 ditches of adjoining roads.

201A.06 All slash shall be scattered outside the brushing limits without damaging residual
Slash trees. Slash shall be defined as any material cut that has a length greater than
Treatment 36 inches or with a diameter greater than 3 inches at any point. No material shall be
 deposited in streams, streambeds, culvert inlets or outlets, or drainage ways.

MEASUREMENT

201A.07 The method of measurement, described in Section 106, will be DESIGNATED in
Method the SCHEDULE OF ITEMS.

Linear measurements will be horizontal along the road centerline.

Quantities will be the number of miles (or stations) and fractions thereof along the road centerline, regardless of the amount of work required.

PAYMENT

201A.08 The accepted quantities will be paid for at the contract unit price for each pay item shown
Basis in the SCHEDULE OF ITEMS.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
201A(01)	Roadway Brushing	Mile
201A(02)	Roadway Brushing	Station

Section 202 - Removal of Structures and Obstructions

CONSTRUCTION

202.03
Removal of
Bridges,
Culverts,
And Other
Structures

Add to this section:

"All metal pipe removed shall become the property of the Contractor and be removed from National Forest System Lands or shall be crushed and buried within a designated fill approved by the Contracting Officer. The pipes shall be placed in such a manner that all pieces shall extend no closer than two feet from finished grade. All voids and cavities surrounding the pipes shall be filled during backfilling operations.

All untreated woody debris from the removal of log culverts and open top culverts shall be treated with the clearing debris and disposed of by using the same methods required for the adjacent R.O.W. clearing.

Any treated woody debris from the removal of log culverts and open top culverts shall become property of the contractor and be removed from National Forest System Lands and disposed of properly.

Section 203 - Excavation & Embankment

DESCRIPTION

203.01 Insert the word "haul" after the word "roadway" on the first line.
Work

CONSTRUCTION

203.04 Add the following to the last sentence:
Clearing & "..., unless specifically allowed under Section 201."
Grubbing

203.08 Add the following:
Finishing "For simplification, out-sloping and in-sloping of the travelway have not been reflected in
Roadbed the
the construction staking, however, they will be required as SHOWN ON THE DRAWINGS.

PAYMENT

203.19 Add the following Pay Item:
Basis

<u>Pay Item</u>	<u>Pay Unit</u>
203(01)H Excavation Placement Method 1, Includes Sta. Yd. Haul	C.Y.

Section 204 - Soil Erosion & Water Pollution Control

DESCRIPTION

204.01
Work

Delete entire subsection and substitute the following:

"This work consists of special temporary and/or permanent construction measures as SHOWN ON THE DRAWINGS and/or listed in this specification to control soil erosion and water pollution. Such measures may include (but are not limited to) filter windrows, slash blankets, brush barriers, drainage devices, earth berms, earthen water bars, sediment basins, aggregate base/surfacing, rock ditches, riprap, seeding, mulching, and/or straw bales.

This work shall also include special construction methods SHOWN ON THE DRAWINGS to control erosion at control areas."

MATERIALS

204.02
Requirements

Delete the 2nd paragraph and substitute the following:

"All other materials shall meet commercial grade standards and shall be approved before being incorporated into the project."

CONSTRUCTION

204.03
Performance

Delete the 2nd paragraph and substitute the following:

"Erosion control measures shall be incorporated into the project no later than the dates specified in Table 204.1. Variations in this schedule must be approved in writing by the Contracting Officer."

Add the following after the 3rd paragraph:

"The following construction requirements shall apply:

- a.- Earthwork. Clearing and grubbing, excavation, borrow and embankment operations shall be scheduled and performed so that grading operations and permanent erosion control measures can follow without interference or be constructed within the time periods listed in Table 204.1.

- b.- Stream Courses. Temporary culvert installations will not be permitted in live streams unless approved individually in writing by the Contracting Officer. If such approval is granted, temporary culverts shall be offset a sufficient distance so that installation of the permanent culvert can be completed without removal of the temporary culvert. Temporary culverts shall not be removed until flowing water is completely confined to the permanent culvert.

Diversion of live streams to allow work in the streambed shall be performed in such a manner as necessary to prevent erosion. Dikes of sufficient height to divert the flow without being overtopped shall be constructed in the stream above the drainage structure. Water shall be conveyed around the work area by a non-eroding conduit. Watertight pipes, tubing, or lined trenches may be used. Trench or pipe outlet areas shall be protected with plastic or other material approved by the Contracting Officer to insure that diverted water does not cause erosion as it returns to the stream.

Equipment shall not operate in the stream unless authorized by the Contracting Officer. This does not include a one time crossing of the stream to begin installation. After installation of the permanent drainage structure is completed, all dikes, temporary culverts, basins, and trenches shall be removed and the area restored to near natural condition.

- c.- Wet Conditions. The contractor shall conduct operations so as to minimize erosion and not develop conditions that will cause erosion. Work may continue during wet conditions as long as erosion and rutting is controlled.
- d.- End of Construction Season and prior to Move-out. Any rutted areas and other damaged areas shall be smoothed, sloped and graded to drain. All temporary stream course diversion conduits and temporary culverts shall be removed and the stream returned to its natural channel. All erosion control measures required under this specification shall be functional and approved by the Contracting Officer. The seeding method prescribed in Section 625 shall be used on all areas where work has been completed.
- e.- Temporary Seeding and Fertilizing. Temporary seeding and fertilizing shall consist of placing seed in one application by the dry method, 23 lbs. Per acre (pure live seed) as per Subsection 625.05 and 150 lbs. Per acre of fertilizer (that has the same chemical analysis as per 625.05) on those portions of road cut/fill slopes, waste areas and/or other disturbed areas that have been constructed as staked or as directed. Seeding of these areas shall be accomplished within 5 days of completion of the subgrade, or sooner when specified in writing by the Contracting Officer.

Temporary seeding and fertilizing shall be prior to, and in addition to, any seed and fertilizer specified in Subsection 625.05.

Pounds of pure live seed shall be computed as described in Subsection 625.05.

- f.- Straw Mulching. Straw mulching shall consist of the application, by hand or machinery specifically designated for such work, of 1.5 tons per acre of straw mulch meeting the requirements of 713.05(b) on areas designed on the DRAWINGS or on other areas directed by the Contracting Officer.
- g.- Filter Windrow. For filter windrow construction, suitable slash shall be conserved from Item 201 Clearing and Grubbing, and stockpiled at approved sites. Slash to be conserved shall consist of tops, limbs, and brush not to exceed 6 inches in diameter and 12 feet in length. Stumps and root wads shall not be included.

Logs of not less than 12-inch diameter shall be placed on the fill slope immediately above and parallel to the toe for the windrow to catch against. Reasonably sound cull logs may be used if available. They shall be firmly anchored against undisturbed stumps, rocks, or trees, or as otherwise directed by the Contracting Officer.

All material in the windrow shall be matted down with construction equipment to form a neat, compact, and uniform pile, so as to effectively halt the flow of sediment. Windrows shall be placed so that they do not interfere with the functioning of drainage structures or block stream channels.

Filter windrows shall be constructed only in locations staked by the Contracting Officer and in accordance with the drawings.

The windrow shall have breaks a minimum of 20 ft. in length at least every 200 lineal feet and at game trails and ridge tops."

MEASUREMENT

204.04 Method

Add the following to the first paragraph:

"Items not shown in the SCHEDULE OF ITEMS will not be measured."

PAYMENT

204.05
Basis

Add the following:

"Other erosion control work required under this specification and not shown in the SCHEDULE OF ITEMS is considered incidental to pay items in the Section listed in Table 204.1."

SPECIAL PROJECT SPECIFICATION
Cedar Side Boards Timber Sale

TABLE 204.1

SECTION	DURATION	DESCRIPTION OF WORK	TIMING OF CONSTRUCTION
203	Permanent	<u>Culvert Catch Basins and Ditch Transitions</u>	Concurrently with culvert installation.
203	Permanent	<u>Inslope/Outslope</u> as shown on drawings.	Continuously as road is roughed to grade.
203	Permanent	<u>Ditches</u>	Within <u>5</u> days of completion of cut & fill slopes.
Incidental to 203	Temporary	<p><u>Waterbars</u> in all areas of disturbed earth.</p> <p>1. In areas not roughed to grade or without completed permanent drainage features: maximum spacing: 100' for road grades over 12% 200' for road grades 6% to 12% 300' for road grades under 6%</p>	Prior to winter shutdown or when construction activity ceases for 15 days or more.
	Permanent	<p>2. In areas where permanent drainage features are completed and no gravel surfacing is specified:</p> <p>Within 20 ft. uphill of all culverts, except in through fill areas.</p> <p>Within 20 ft. uphill of the start of through fills.</p> <p>Approximately halfway between culverts, except in through fill areas as needed to control erosion during periods of winter shutdown.</p> <p>maximum spacing: 100' for road grades over 12% 200' for road grades 6% to 12% 300' for road grades 4 to 6% 1000' for road grades under 4%</p>	Within 5 days of completion of subgrade.
203	Permanent	<u>Drainage Dip</u> Locations shown on the drawings.	Prior to the end of the construction season for all areas roughed to grade.
Incidental to 203	Temporary	<u>Straw Bales/Straw Mulch</u> . As necessary to stabilize eroding areas.	Immediately upon discovery of active erosion.
203	Temporary	<u>Uncompleted Roads</u> . The total length of all roads with uncompleted excavation and embankment, including pioneer roads, shall not exceed <u>5000</u> lineal feet between Jun. 1 and Sep. 15 and shall not exceed <u>2000</u> lineal feet after Sep. 15.	See description of work. This applies to Roads: 504E, 504F, 3321B.2, 3321C.2, 3321E, 3335C

SPECIAL PROJECT SPECIFICATION
Cedar Side Boards Timber Sale

TABLE 204.1(Cont.)

SECTION	DURATION	DESCRIPTION OF WORK	TIMING OF CONSTRUCTION
204	Temporary	<u>Temporary Seeding and Fertilizing</u> Locations shown on the drawings.	Within <u>5</u> days of construction activity or sooner when specified in writing by the Contracting Officer.
204	Temporary	<u>Sediment Basins</u> Locations shown on the drawings.	Prior to pioneer road construction.
603	Permanent	<u>Culverts</u> Live Streams	At time of initial crossing of live streams.
		<u>Cross Drains</u>	Within 5 days of completion of cut & fill slopes.
625	Permanent	<u>Seeding</u>	As specified in Section 625
625	Permanent	<u>Mulching</u> Locations shown on the drawings. Application rate: <u>1.5</u> tons of straw mulch per acre.	Immediately after seeding & fertilizing.

Section 206A - Excavation for Culverts & Minor Structures

MEASUREMENT

206A.08 Add the following:
Methods

"(c) For gabion structures, measurement will be to the lines and grades as SHOWN ON THE DRAWINGS."

"(d) Excavation for pipe culverts with diameter of 36 inches or smaller and for pipe arches 42 inches by 29 inches or smaller and drop inlets shall not be measured."

PAYMENT

206A.09 After the first sentence, add:
Basis

"Payment for excavation for pipe culverts with diameter of 36 inches or smaller and for pipe arches 42 inches by 29 inches or smaller and drop inlets shall be included as a subsidiary item to Section 603 and Section 604. No separate payment shall be made under this Section or under Section 603, 603A, 603B, or 604."

Section 207 - Developing Water Supply & Watering

CONSTRUCTION

207.03 Add the following:

Development
of Supply
& Access

"All activities which may cause siltation or damming of a stream shall be approved in advance of the work, in writing by the Contracting Officer. The intake hose for pumping water from streams shall be equipped with a ¼ inch mesh screen to prevent fish intake. Not more than 20% of the total stream flow shall be pumped (removed) from the stream at any given time."

PAYMENT

207.06 Delete the first paragraph and substitute with the following:

Basis

"Payment for Developing Water Supply & Watering shall be included as a subsidiary item to Section 304. No separate payment shall be made under Section 207."

Section 304 - Aggregate Base or Surface Course

MATERIALS

304.03 Delete entire subsection and substitute the following:
Gradation

"The crushed aggregate gradation shall meet the requirements of Table 703-4 for the grading shown in the SCHEDULE OF ITEMS. Aggregate shall be well graded from coarse to fine within the gradation band."

CONSTRUCTION

304.08 The following is added to this subsection:

Preparation
of Roadbed

"The subgrade receiving aggregate shall be compacted to a depth of one foot, in accordance with Subsection 203.15, Method 3. This work shall be considered incidental to Pay Item 304(10)."

304.09

Mixing &
Placing

Delete the word "three" from the first sentence of the first paragraph:

304.12

Thickness
Requirements

Add the following to this subsection:

"Compensation will not be made for thickness exceeding the specified thickness."

Section 306 - Reconditioning Existing Road

DESCRIPTION

- 306.01 Delete "scarifying and" from the text.
Add: "and catch basins" following "outlets"

CONSTRUCTION

- 306.02 Delete the first two paragraphs including (a) and (b) of the second paragraph
Performance and replace with the following:
"Scarification of the traveled way and shoulders is not required. Any rock protruding less than two inches may be left in place. Rock protruding in excess of two inches shall be removed or the tops blasted. Resulting holes in the roadway or shoulders shall be backfilled with compacted suitable material."

Section 603 - Metal Pipe

MATERIALS

603.02 Delete the second sentence, last paragraph, and add:
Requirements

"Pipe should not be ordered until culvert locations are DESIGNATED ON THE GROUND and the correct lengths are determined and approved by the Contracting Officer."

CONSTRUCTION

603.06 Replace the last sentence of the first paragraph with the following:
Joining Pipes

"Dimpled bands shall not be used unless approved by the Contracting Officer in writing."

603.08 At the end of the second paragraph, after "Method A or B," add:
Backfilling

"or C"

After Method B, add:

"Method C - Compaction shall be obtained by a minimum of two passes with a mechanical tamper, approved by the Contracting Officer, for each 6-inch layer (loose thickness) of backfill unless otherwise SHOWN ON THE DRAWINGS."

Section 625 - Seeding and Mulching

DESCRIPTION

625.01 Add the following:
Work

"All disturbed areas as well as finished cut and fill slopes are to be treated."

CONSTRUCTION

625.03 Add:
Seeding
Seasons

"Time of application shall be as specified:

During the Months marked with an 'X' below:

JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
					X			X	X		

Should climatic conditions permit, application may be performed outside the months marked above upon written approval by the Contracting Officer."

Delete the first and last sentences and add the following:

"Unless otherwise approved, a maximum of 5000 lineal feet of roads(s) may remain unseeded after October 1. A maximum of 5000 lineal feet of road(s) (including pioneer roads) may remain unseeded at the end of any construction season."

625.05 The following is added:
Application
Methods for
Seed,
Fertilizer,
& Limestone

"The kinds of seed to be furnished and the amounts to be applied in terms of pure live seed (PLS) shall be as follows:

KIND OF SEED	QUANTITY/ACRE (# OF PLS)	
Native Seed Mix		
Slender Wheat grass "Highlander", Or "Pryor".....	5	TOTAL
Mt. Brome "Bromar".....	6	23# PLS/ACRE
Streambank Wheatgrass "Sodar".....	5	
Indian Ricegrass "Nezpar".....	4	
White Dutch Clover.....	3	Inoculation required

Pounds of seed to be furnished per acre shall be obtained by dividing the pounds of pure live seed (PLS) required per acre by the product of the percent purity and percent germination.

Example:
$$\frac{5(\# \text{ PLS/acre})}{0.90 \times 0.85} = 6.55 \text{ pounds commercial seed per acre.}$$

(where purity=90% and germination=85%)

Certified, blue-tagged seed shall be used where a name variety or cultivar is specified. Blue tags, which are removed to mix the seed, shall be provided to the Forest.

All seed purchased will be certified to be free of the noxious weed seeds from weeds listed on the current "All States Noxious Weeds List".

Test results from a certified seed analyst and seed analysis labels attached to the bags will be provided to the Forest Service. Lab testing for noxious weeds will be conducted prior to seed mixing. Only after a finding and documentation in writing of no weeds on the current "All States Noxious Weeds List" will the seed be accepted and used.

Seed shall be applied by the Dry method. Fertilizer shall be applied at the rate of 300 pounds per acre in 1 application(s) by the Dry method and have a chemical analysis as listed below:

<u>Nutrient</u>	<u>Percent</u>	<u>Nutrient</u>	<u>Percent</u>
Nitrogen, N . . .	<u>16</u>	Potassium, K. . .	<u>16</u>
Phosphorus, P205.	<u>16</u>	Sulphur, S. . .	<u>6</u> "

625.06
Application
of Mulch

The following is added:

"Mulch material shall be certified noxious weed free straw and shall be mechanically applied at a rate of 3000 pounds per acre. The Contractor shall furnish the Contracting Officer with a copy of the certification."

Section 713 - Roadside Improvement Materials

713.04
Seed

Replace the first paragraph with the following paragraph:

The kinds of grass, legumes and cover-crop seed furnished shall be those stipulated in the SPECIAL PROJECT SPECIFICATIONS. All seed shall meet the requirements of Federal Specification-JJJ-S-181 which shall be amended as follows:

All seed purchased shall be certified to be free of noxious weed seeds from weeds listed on the current "All States Noxious Weeds List."

Replace the second paragraph with the following paragraph:

Seed shall be furnished separately or in mixture in standard containers with (1) seed name; (2) lot number; (3) net weight; (4) percentages of purity and of germination (in case of legumes, percentage of germination to include hard seed); and (5) percentage of maximum weed seed content clearly marked for each kind of seed. The contractor shall furnish the Contracting Officer duplicate signed copies of a statement certifying that each lot of seed has been tested by a certified seed analyst. This statement shall include (1) name and address of laboratory, (2) date of test, (3) lot number for each kind of seed, and (4) results of tests as to name, percentages of purity and of germination, and percentage of weed content for each kind of seed furnished, and, in case of a mixture, the proportions of each kind of seed. Laboratory testing for noxious weeds shall be conducted prior to seed mixing. Only after a finding and documentation in writing of no weeds on the current "All States Noxious Weeds List" will the seed be accepted and used. Legume seed shall be inoculated with approved cultures in accordance with the instructions of the manufacturer. Seed analysis labels attached to the bags shall be provided to the Forest Service.

Section 640 - Road Closure Devices

CONSTRUCTION

640.03

Performance Add the following to the end of the first sentence in the first paragraph:

"or DESIGNATED ON THE GROUND by the Engineer."

Delete the third paragraph and replace with the following:

"After assembly, nongalvanized steel pipe gates shall be cleaned and painted with one coat of zinc-rich primer of the color SHOWN ON THE DRAWINGS."

Add the following to this subsection:

"The Contractor shall notify the Engineer at least one week prior to installing any road closure device. The Contractor shall install all regulatory signs, barricade markers, and object markers as SHOWN ON THE DRAWINGS, immediately upon installation of the road closure device.

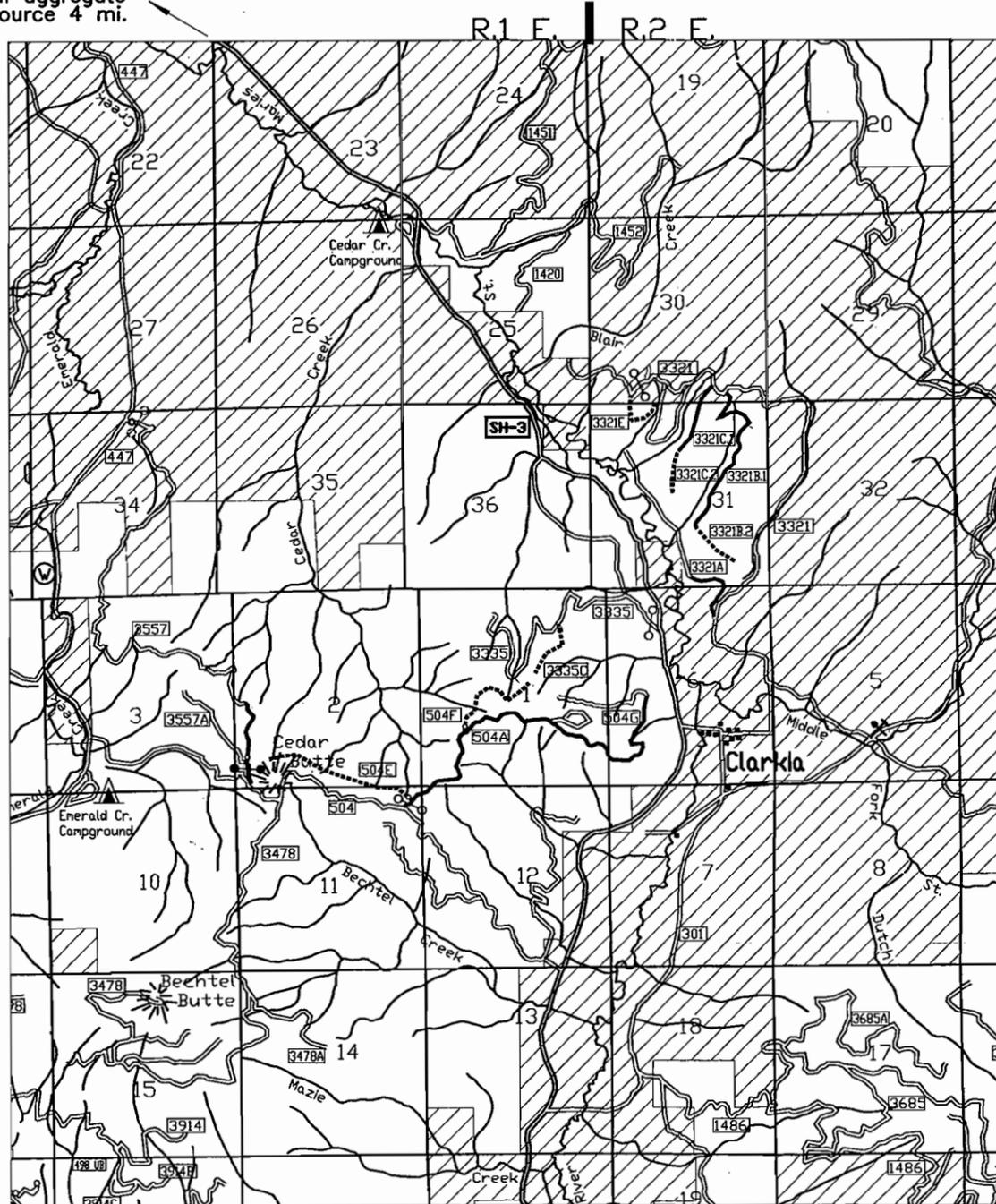
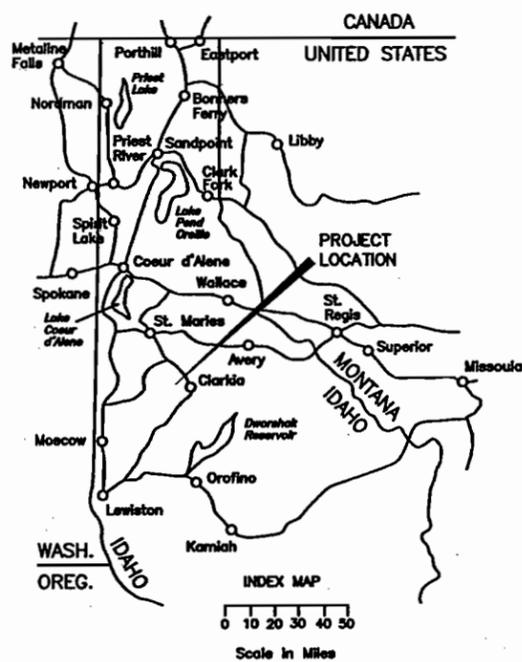
The road closure device shall be installed within 5 days from the time construction begins on the road where the device is required."

U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE - REGION ONE
 DRAWINGS FOR PROPOSED FOREST DEVELOPMENT

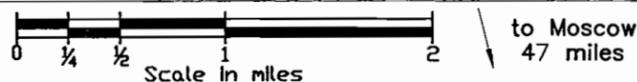
Cedar Side Boards

TIMBER SALE ROADS
 IDAHO PANHANDLE NATIONAL FORESTS
 St. JOE RANGER DISTRICT
 SHOSHONE COUNTY

to St. Maries
 26.5 miles
 commercial aggregate
 source 4 mi.



T.43 N.
 T.42 N.



SHEET	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF ESTIMATED QUANTITIES
3	GENERAL NOTES
4	TYPICAL SECTIONS
5	DRAINAGE SUMMARY
6	WORK LIST RD. 504G, 3321B.1, 3321C.1
7-11	3557, 3557A, Aggregate Typical
12-14	PLAN, PROFILE AND WORKLIST RD. 504A
15-16	PLAN AND PROFILE RD. 504E
17-19	PLAN AND PROFILE RD. 504F
20-22	PLAN AND PROFILE RD. 3321A
23-24	PLAN AND PROFILE RD. 3321B.2
25-27	PLAN AND PROFILE RD. 3321C.2
28	PLAN AND PROFILE RD. 3321E
29	PLAN AND PROFILE RD. 3335C
30	SIGN PLAN
31	PILING CONST. SLASH TYPICAL SECTION
32-34	STRAW BALE SEDIMENT BASIN
35	CULVERT DETAIL
36-38	COUPLING BAND DETAILS
39	ROAD CLOSURE GATE DETAIL

LEGEND

- National Forest
- Other Than National Forest System Lands
- Existing Road
- Reconstruction
- New Construction
- Water Source
- Existing Gate
- New Gate
- Borrow Source



Recommended to be technically correct
 and that this project is in conformance
 with Environmental Assessment requirements

Brent A. Bugas
 Infra Team Leader

Approved to be in conformance with sound
 Engineering practice for safety, structural
 integrity, and operational requirements.

[Signature]
 Forest Engineer

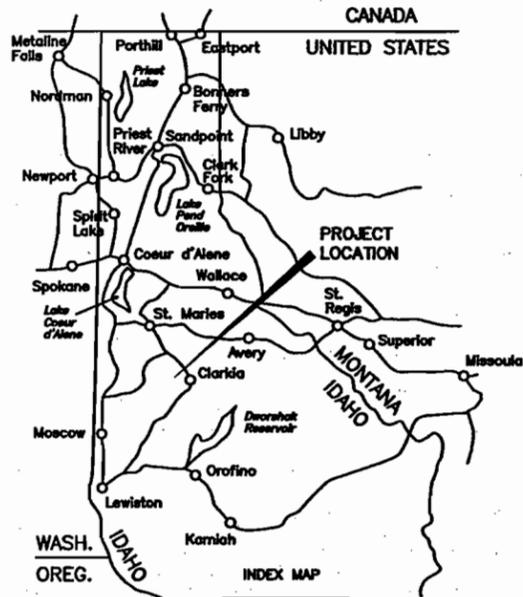
Approved: *[Signature]* 2/20/08
 District Ranger Date

U.S. DEPARTMENT OF AGRICULTURE
 FOREST SERVICE - REGION ONE
 DRAWINGS FOR PROPOSED FOREST DEVELOPMENT

Cedar Side Boards

TIMBER SALE ROADS
 IDAHO PANHANDLE NATIONAL FORESTS
 St. JOE RANGER DISTRICT
 SHOSHONE COUNTY

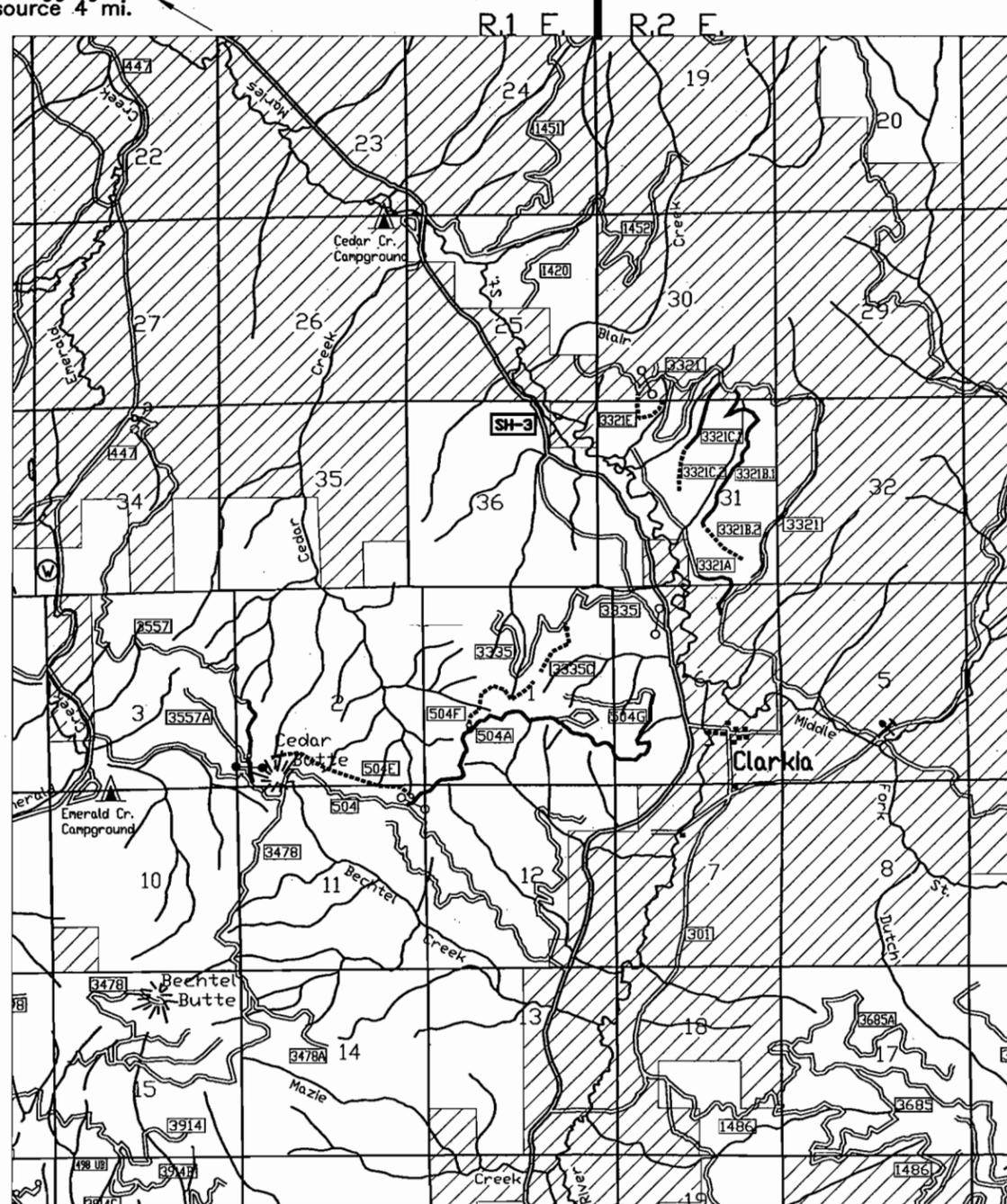
to St. Maries
 26.5 miles
 commercial aggregate
 source 4 mi.



LEGEND

- National Forest
- Other Than National Forest System Lands
- Existing Road
- Reconstruction
- New Construction
- Water Source
- Existing Gate
- New Gate
- Borrow Source

T.43 N.
 T.42 N.



SHEET	DESCRIPTION
1	TITLE SHEET
2	SUMMARY OF ESTIMATED QUANTITIES GENERAL NOTES
3	TYPICAL SECTIONS
4	DRAINAGE SUMMARY
5	WORK LIST RD. 504G, 3321B.1, 3321C.1 3557, 3557A, Aggregate Typical
6	PLAN, PROFILE AND WORKLIST RD. 504A
7-11	PLAN AND PROFILE RD. 504E
12-14	PLAN AND PROFILE RD. 504F
15-16	PLAN AND PROFILE RD. 3321A
17-19	PLAN AND PROFILE RD. 3321B.2
20-22	PLAN AND PROFILE RD. 3321C.2
23-24	PLAN AND PROFILE RD. 3321E
25-27	PLAN AND PROFILE RD. 3335C
28	SIGN PLAN
29	PILING CONST. SLASH TYPICAL SECTION
30	STRAW BALE SEDIMENT BASIN
31	CULVERT DETAIL
32-34	COUPLING BAND DETAILS
35	ROAD CLOSURE GATE DETAIL



Recommended to be technically correct
 and that this project is in conformance
 with Environmental Assessment requirements

 Infra Team Leader

Approved to be in conformance with sound
 Engineering practice for safety, structural
 integrity, and operational requirements.

 Forest Engineer

Approved: _____
 District Ranger Date

SUMMARY OF ESTIMATED QUANTITIES

ROAD NUMBER				504A	504E	504F	504G	3321A	3321B.1	3321B.2	3321C.1	3321C.2	3321E	3335C	3557	3557A	Project Totals
TYPE OF CONSTRUCTION: (C = CONSTRUCTION, R = RECONSTRUCTION)				R	C	C	R	R	R	C	R	C	C	C	R	R	
LENGTH OF CONSTRUCTION (MILES)					1.13	0.57				0.60		0.52	0.27	0.50			3.59
LENGTH OF RECONSTRUCTION (MILES)				1.20			0.75	0.36	0.95		0.44				0.33	0.25	4.28
ITEM NO.	DESCRIPTION	MM*	UNIT														
173(01)A	Establishing Slope Stakes, Cut Side(s) & Through Fills, Clearing Limit & Slope Stake Combined	DQ	MI	0.03	1.13	0.57		0.36		0.60		0.52	0.27	0.50			3.98
201(01)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 11.1, Logs 8.1, & Stumps 11.1, Utilization of Timber 1.	DQ	AC		5.51	3.00		1.70		2.78		2.29	1.34	2.46			19.08
201(03)	Clearing & Grubbing, Slash Treatment Methods for Tops & Limbs 4, 6.1, 11.3, Logs 8.1, & Stumps 4, 11.3, Utilization of Timber 1.	DQ	MI	0.03			0.75		0.95		0.44				0.33		2.50
201(08)	Individual Removal of Trees, Miscellaneous; Slash Treatment Methods for Tops and Limbs 4, 11.3, and Logs 8.1, Utilization of Timber 1	AQ	EA	86													86
201(09)	Individual Removal of Stumps; Slash Treatment Methods 4, 11.3	AQ	EA	31													31
201A(01)	Roadway Brushing	DQ	MI	1.17													1.17
202(02)CM	Removal of Metal Pipe	AQ	EA					1									1
203(01)H	Excavation, P.M. 1, Includes Sta. Yd. Haul	DQ	CY	284	7488	4292		627		2763		2053	1475	3008			21990
203(08)	Excavation, Placement Method 1	DQ	MI											0.33			0.33
203(10)	Borrow Excavation, P.M. 1	DQ	CY					714									714
204(01)	Temporary Seeding and Fertilizing	DQ	AC	0.16	4.63	2.58		1.30		2.25		1.79	1.12	2.05	0.76		16.64
204(09)	Sediment Basin	AQ	EA					1									1
304(10)	Crushed Aggregate, Type Surfacing, , Grading D, Compaction B,(commercial source)	DQ	CY		1852												1852
306(01)	Reconditioning of Roadbed, Compaction A	DQ	MI	1.17			0.75		0.95		0.44						3.31
601(01)	Mobilization	LSQ	LS	1	1	1	1	1	1	1	1	1	1	1	1	1	Job
603(01)18C	18" CMP (incl. Culv. Exc.) Thickness: Steel 0.064, Thickness: Aluminum 0.060, Method C	AQ	LF	36	68				32	32	64	100		122			454
603(01)24C	24" CMP (incl. Culv. Exc.) Thickness: Steel 0.064, Thickness: Aluminum 0.060, Method C	AQ	LF					36									36
625(07)	Seeding, Dry Method (with Mulch)	DQ	AC	0.16	4.63	2.58		1.30		2.25		1.79	1.12	2.05	0.76		16.64
640(01)	Furnish and Install Road Closure Device, Type Gate, size 14'0" - 16'6"	AQ	EA												1		1

MM* = Method of Measurement

General Notes

Section 201:

- Log decks shall be located beyond toe of fill so as not to interfere with road construction.
- Embankment material shall not be placed on or against log decks.

Section 203:

- All excess or unsuitable excavation not utilized shall be sidecast wasted along the roadway unless otherwise Designated On The Plans or Directed By The Contracting Officer.
- No material shall be sidecast wasted into live streams.
- Scarification will not be required.
- No material shall be sidecast wasted on slopes within 20-Ft. of cross-drain culverts.
- All road construction shall conform to Tolerance Class I.
- Borrow source is located along Rd. 321 at , S.E. ¼ Sec. 5, T. 42 N., R.2 E., B.M.

Section 204:

- All areas of disturbed earth outside roadbed shall be temporary seeded and fertilized.
- All areas of disturbed earth including the roadbed shall be seeded on newly constructed or reconstructed roads.
- Sediment basins and trapped sediment shall be removed prior to the end of the construction season. Material removed shall be placed 5 Ft. above high water mark.

Section 206A

- All excess or unsuitable material shall be sidecast wasted along the roadway.
- No material shall be sidecast wasted into live streams, or along slopes adjacent to, live streams.

Section 207:

- Water sources are located along Rd. 447 at Emerald Cr. S.W. ¼ Sec. 34, T. 43N., R.1E., B.M.

Section 304:

- All quantities and depths shown on the drawings and estimate are compacted in-place quantities and depths.
- Crushed aggregate is a commercial source item. One possible source of crushed aggregate is located near State Highway 3 in the NE ¼ Section 6, T.43 N., R.1 E., B.M.

Section 306:

- All excess, oversize or unsuitable material removed under Section 306 shall be sidecast wasted along the roadway unless otherwise Designated On The Plans.
- No material shall be sidecast wasted into, or along slopes adjacent to, or within 50 feet of live streams.
- No material shall be sidecast wasted on slopes within 20 Ft. of cross-drain culverts.
- Scarification Will Not Be Required.
- The traveled way and shoulders of intersecting roads shall be similarly treated to provide a smooth transition for a distance of 50 feet.

Section 625:

- All areas of disturbed earth outside of roadbed shall be seeded.
- All areas of disturbed earth including the roadbed shall be seeded on newly constructed or reconstructed roads that do not have aggregate placed on them.

Noxious Weed Control:

In order to prevent the spread of noxious weeds into the Cedar Side Boards Timber Sale, The Contractor shall provide certification that any seed or straw/hay on the project is noxious weed free. The Contractor shall furnish the Forest Service with proof of weed free equipment as provided in the contract.

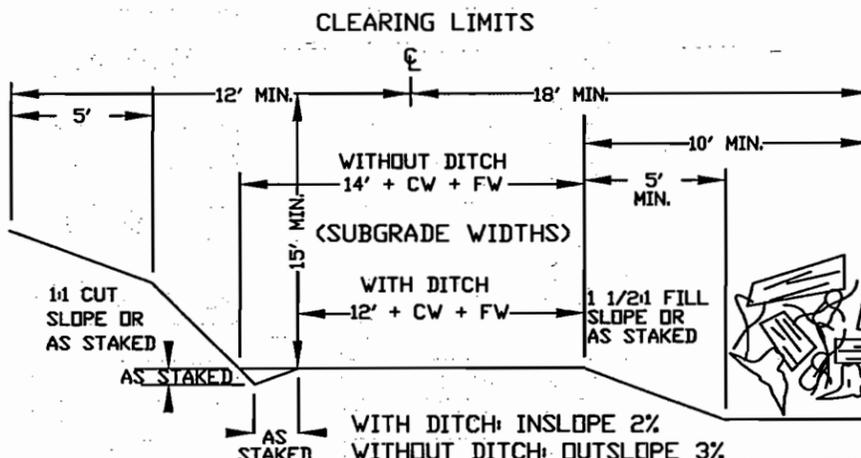
Construction Signing:

All construction signs and installations shall conform to the current M.U.T.C.D. standards.

CALL BEFORE YOU DIG!

Road 3321A is known to have a buried powerline in the vicinity. No other buried utilities are known. Purchaser is responsible for damage to existing utilities.

Contact any and all utility companies prior to commencing construction or reconstruction activities.



CONSTRUCTION SLASH MAY EXTEND BEYOND THE CLEARING LIMITS INTO NATURAL OPENINGS

CONSTRUCTION TYPICAL SECTION

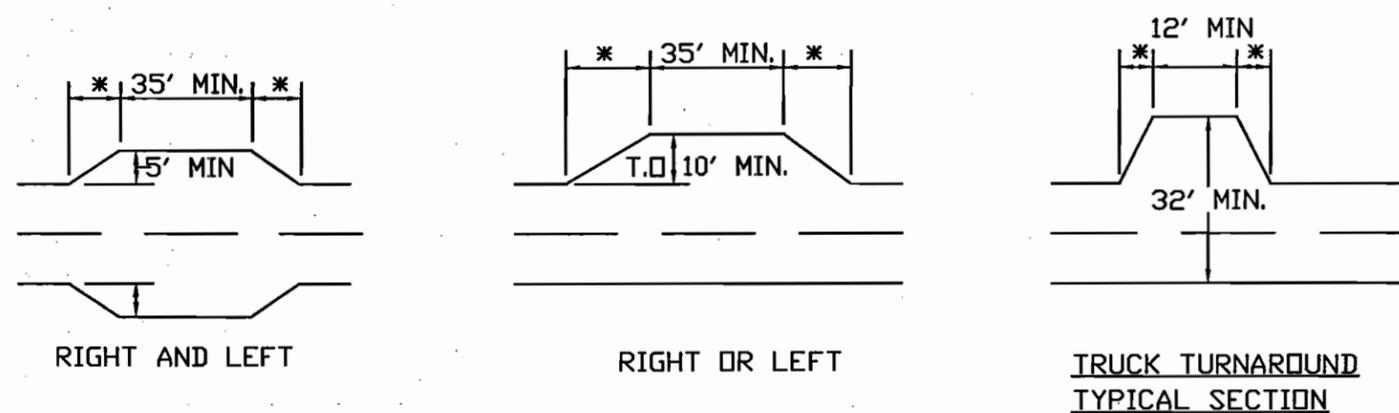
Rd 504E, Rd 504F, Rd. 3321B.2
Rd 3321C.2, Rd 3321E, Rd 3335C

NO SCALE

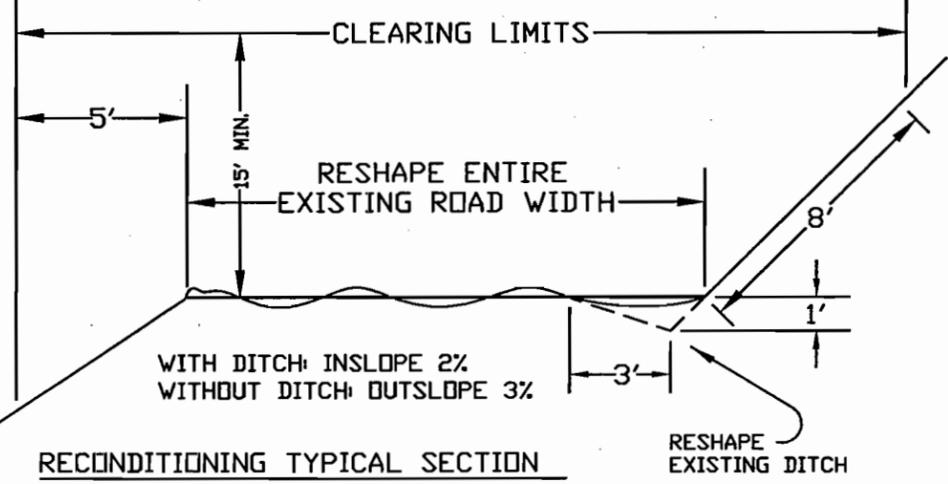
***IN AREAS WHERE FILL IS 5' OR LESS, THE HEIGHT OF PILE ABOVE SUBGRADE SHALL NOT EXCEED 10'. IN AREAS WHERE FILL IS GREATER THAN 5' THE HEIGHT OF PILE ABOVE SUBGRADE SHALL NOT EXCEED 5'.

All Roads
Design Speed = 10 MPH
Curve Widening = logtruck

TURNOUT TYPICAL SECTION



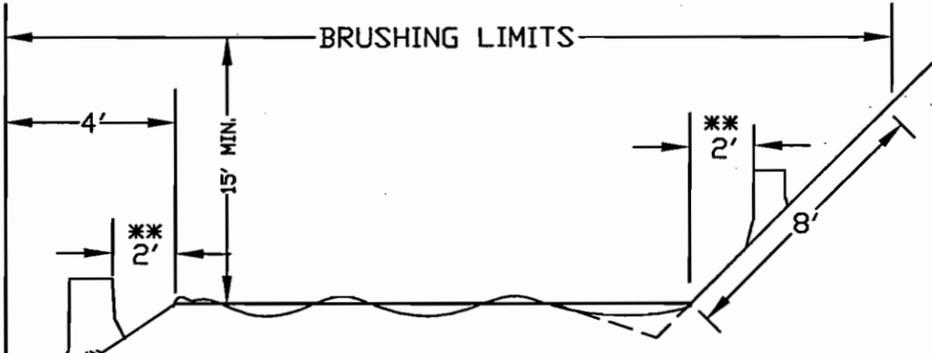
*AS STAKED



RECONDITIONING TYPICAL SECTION

Rd 504G, Rd 3321B.1, Rd. 3321C.1,

NO SCALE

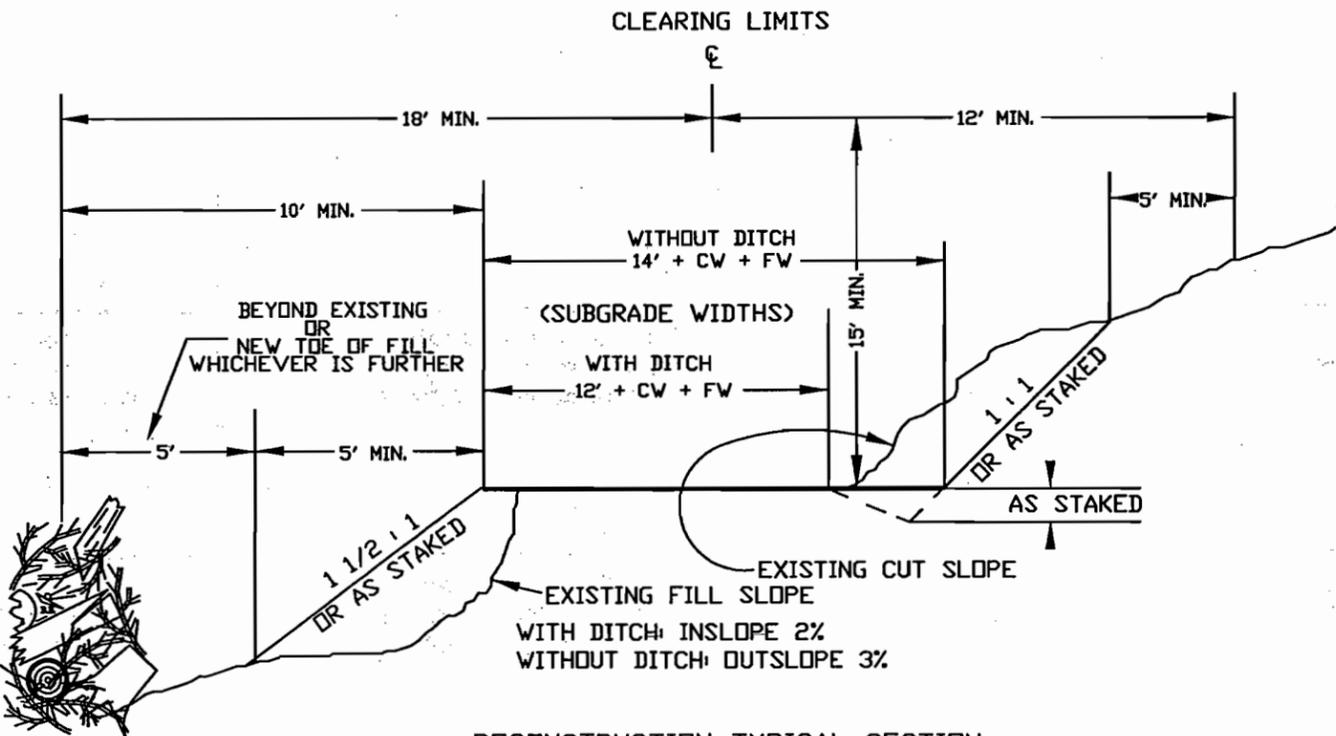


BRUSHING & RECONDITIONING TYPICAL SECTION

Rd 504A except M.P. 0.70 TO M.P. 0.73

NO SCALE

** Grub stumps within 2' of the edge of roadway or ditch. Item 201(09)



RECONSTRUCTION TYPICAL SECTION

Rd 504A M.P. 0.70 to 0.73, 3321A, Rd 3557

NO SCALE

Worklist Rd 504G

M.P.	Description
0.00	Jct w/ road 504A (M.P. 1.20) Begin reconstruction Item 201(03) Clearing, 306(01) Reconditioning.
0.75	End reconstruction.

Worklist Rd 3321B.1

M.P.	Description
0.00	Jct w/ road 3321 (M.P. 3.20) Begin reconstruction Item 201(03) Clearing, 306(01) Reconditioning.
0.25	Existing 18' CMP.
0.31	Existing 18' CMP.
0.46	Existing 18' CMP.
0.55	Existing 18' CMP.
0.82	Install 18'X32' CMP, Item 603(01)18C.
0.95	Jct 3321B.2 Lt., End reconstruction.

Worklist Rd 3321C.1

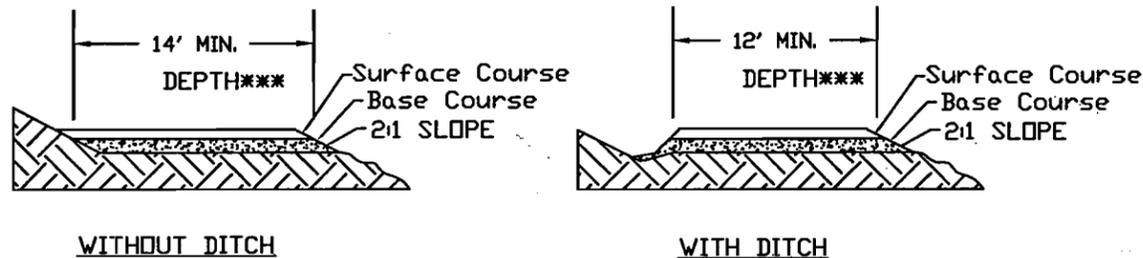
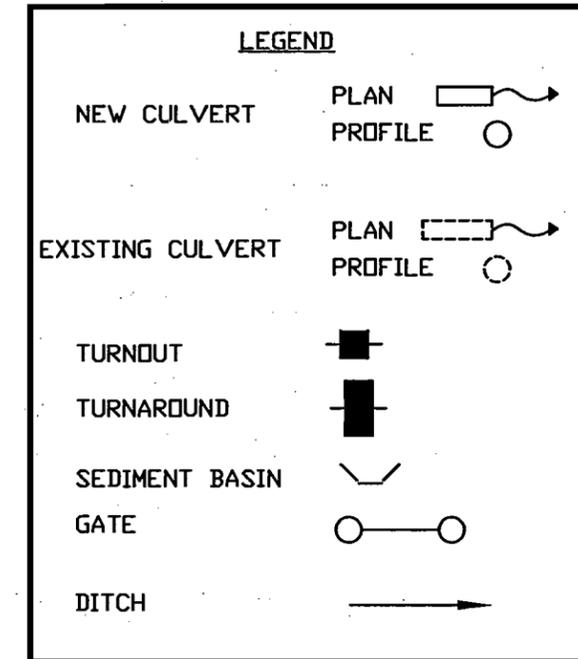
M.P.	Description
0.00	Jct w/ road 3321 (M.P. 3.35) Begin reconstruction Item 201(03) Clearing, 306(01) Reconditioning.
0.08	Install 18'X32' CMP, Item 603(01)18C.
0.35	Install 18'X32' CMP, Item 603(01)18C.
0.37	Existing CMP.
0.44	Jct Rd 3321C.2 Lt., End reconstruction.

Worklist Rd 3557 Cedar Butte

M.P.	Description
0.00	Jct w/ road 3557A (M.P. 0.28) Begin reconstruction Items 201(03) Clearing, 203(08) Excavation, 204(01) Temp. Seeding, 625(07) Seeding and mulching.
0.33	Unit Boundary, End reconstruction.

Worklist Rd 3557A

M.P.	Description
0.00	Jct w/ road 504 (M.P. 2.88)
0.02	Install Road Closure Device Gate, Item 640(01) as staked by the Contracting Officer.
0.25	Jct w/ road 3557.



BASE AND SURFACE COURSE TYPICAL

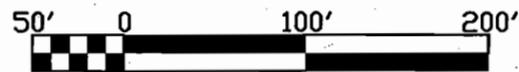
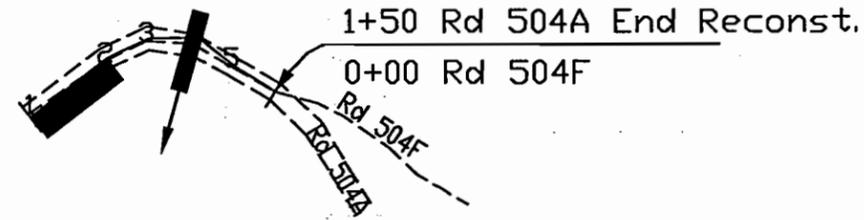
***THE BASE AND SURFACE COURSE TYPICAL DEPTH SHOWN ON THE DRAWING IS A COMPACTED IN-PLACE DEPTH. THE ENTIRE SUBGRADE, INCLUDING CURVE WIDENING, FILL WIDENING, TURNOUTS, AND DITCH, SHALL BE SURFACED AS SHOWN.

ROAD #	LOCATION	AGGREGATE DEPTH ITEM 304(10)
504E	MP 0.00 - MP 1.13	6"



Rd 504A M.P. 0.70

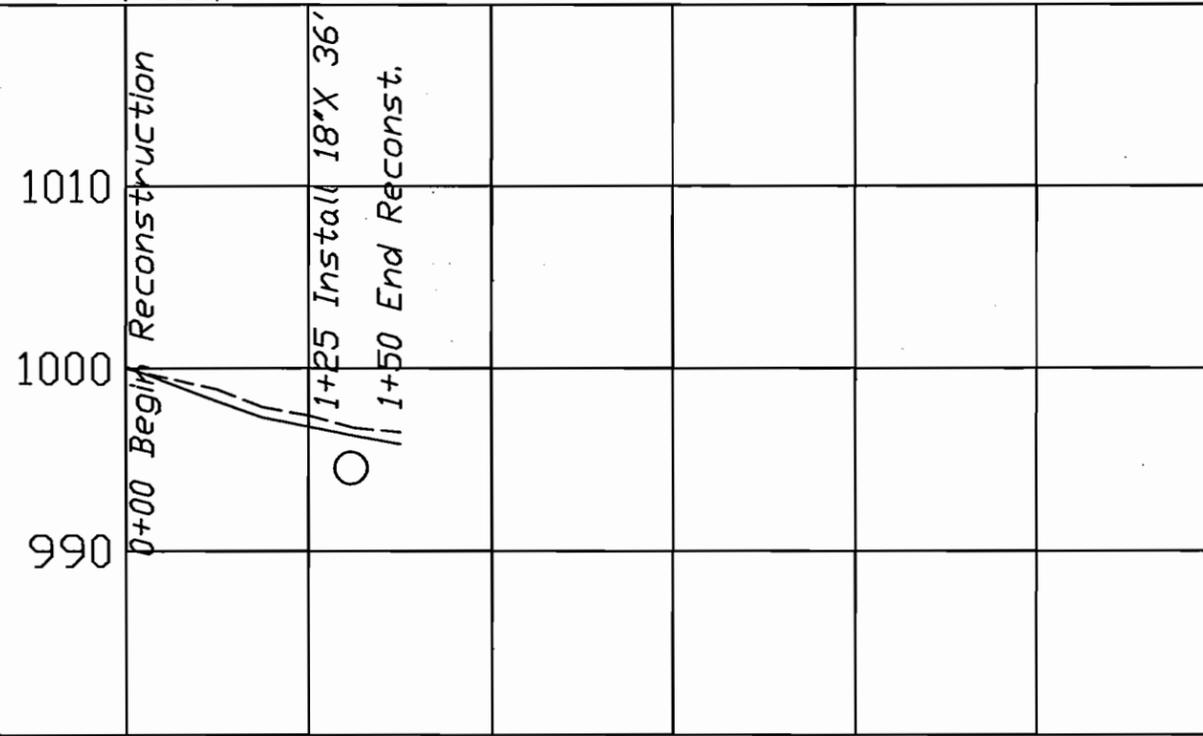
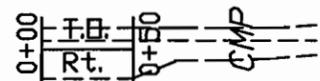
0+00 Begin Reconstruction



Cedar Side Boards Timber Sale
Clarkia Peak Road 504A
Sheet 6 of 35

Work list

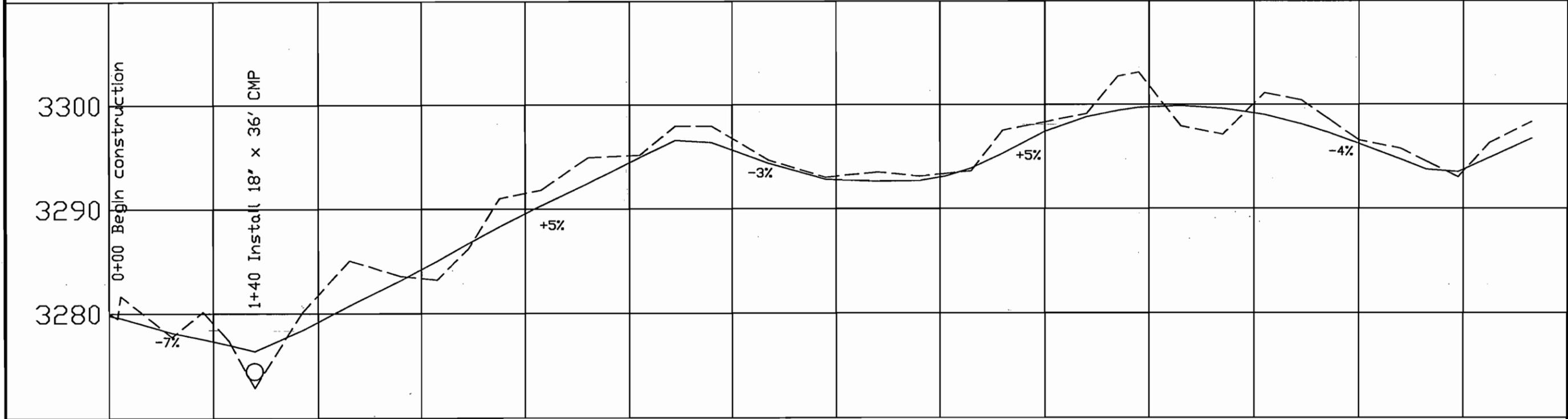
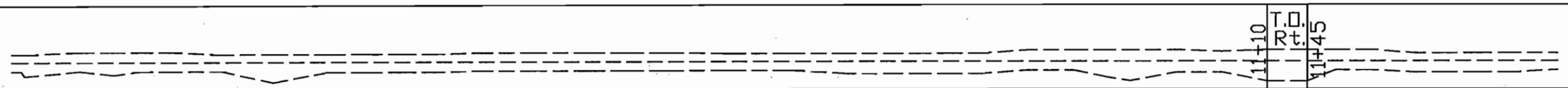
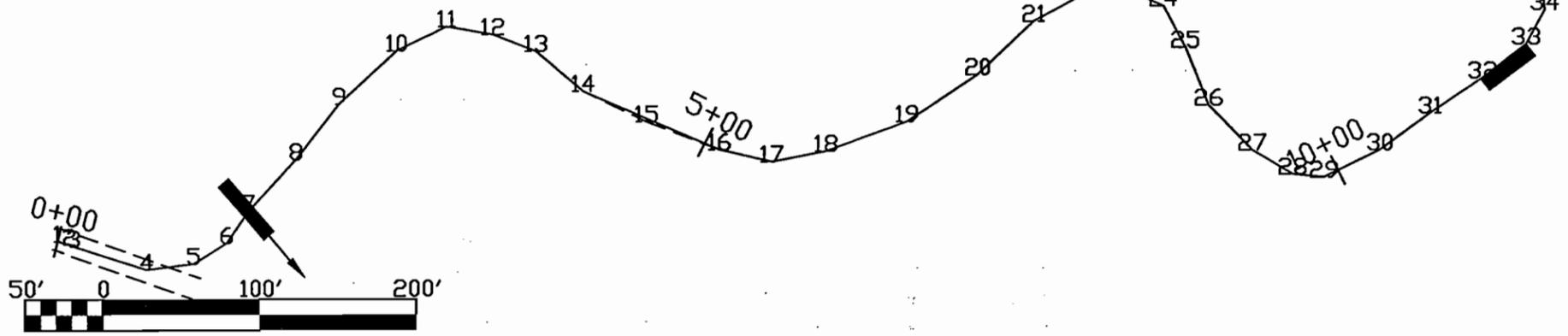
M.P.	Remarks
0.00	Jct Rd 504 (MP 1.4) Begin reconditioning, Items 201(08), 201(09), 201A(01), 306(01)
0.01	Existing gate
0.08	Jct Rd 504E (MP 0.00)
0.70	Jct Rd 504F, End reconditioning, Begin reconstruction, Items 173(01)A, 201(03), 203(01)H, 204(01), 625(07)
0.73	End reconstruction, Begin reconditioning, Items 201(08), 201(09), 201A(01), 306(01)
1.20	Jct Rt. Rd 504G (MP 0.00), End reconditioning



Item	Quantity	Item	Quantity
Excavation (CY)	284	Item 203(01)H	
Haul (sta yd)	56		
Clear (MI)	0.03 Mi	Item 201(01)	
Seed (ac)	0.16	Item 625(07)	

Cedar Side Boards Timber Sale
 Parallel Rd. 504 E
 Sheet 7 of 35

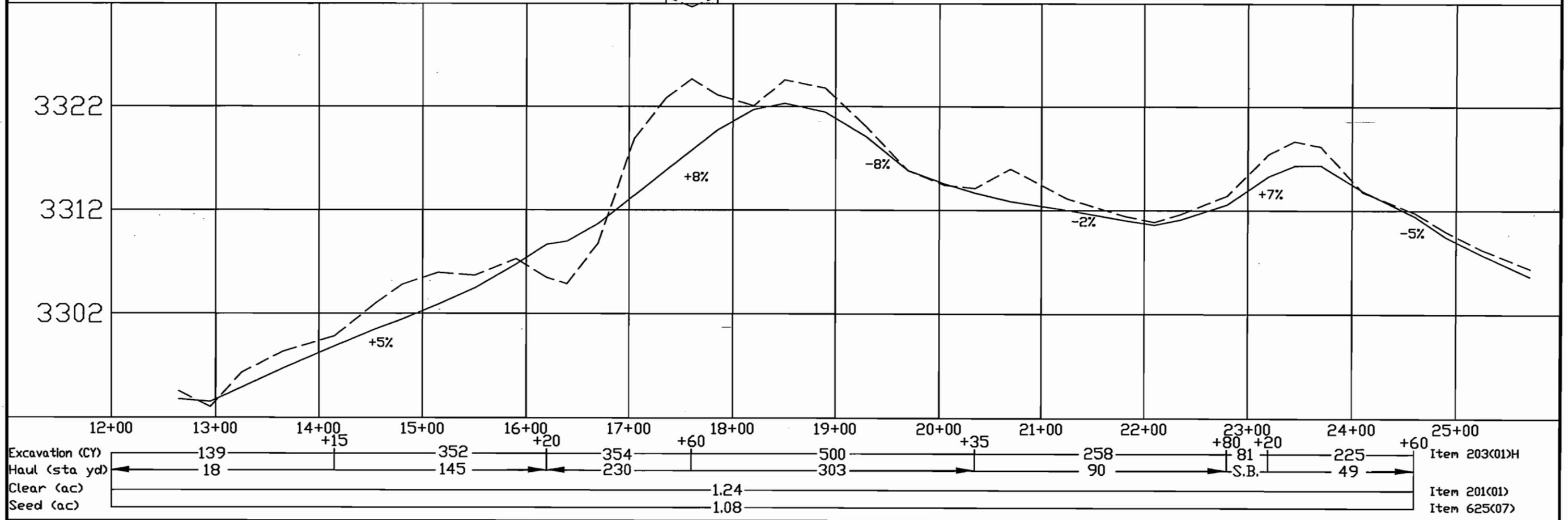
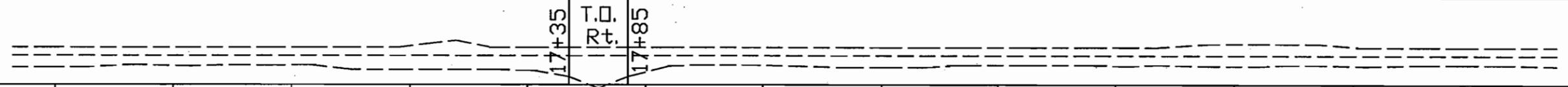
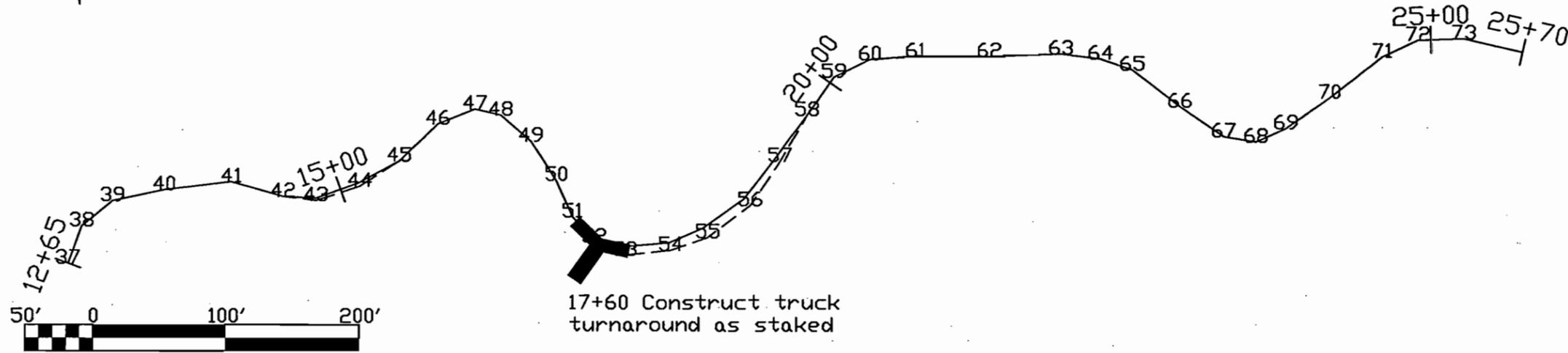
0+00 Begin construction
 Rd 504A (M.P. 0.08)



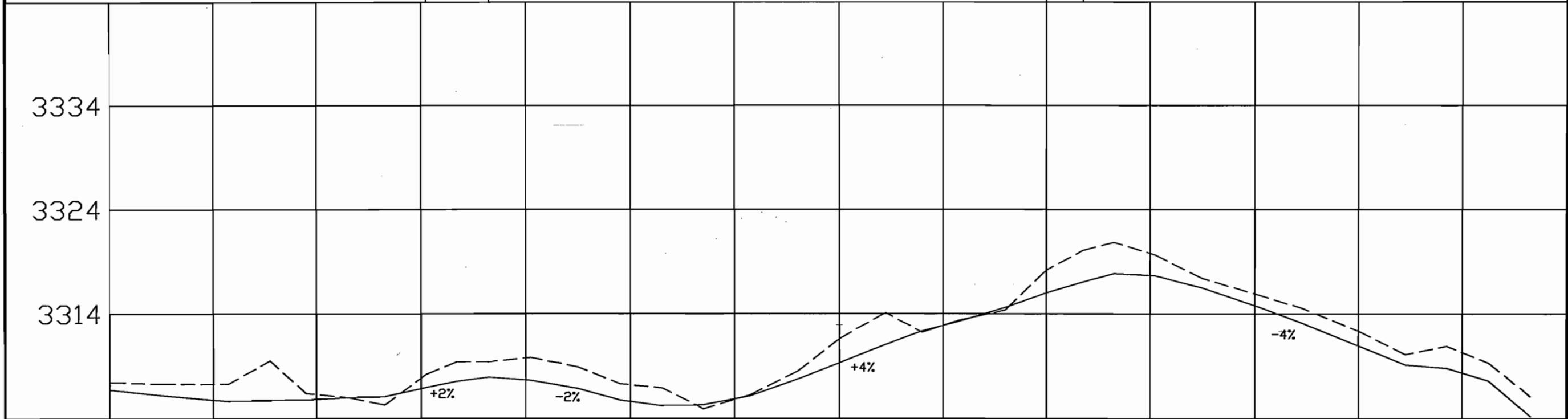
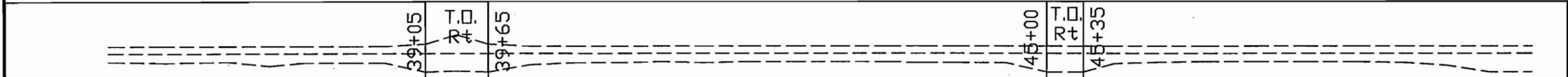
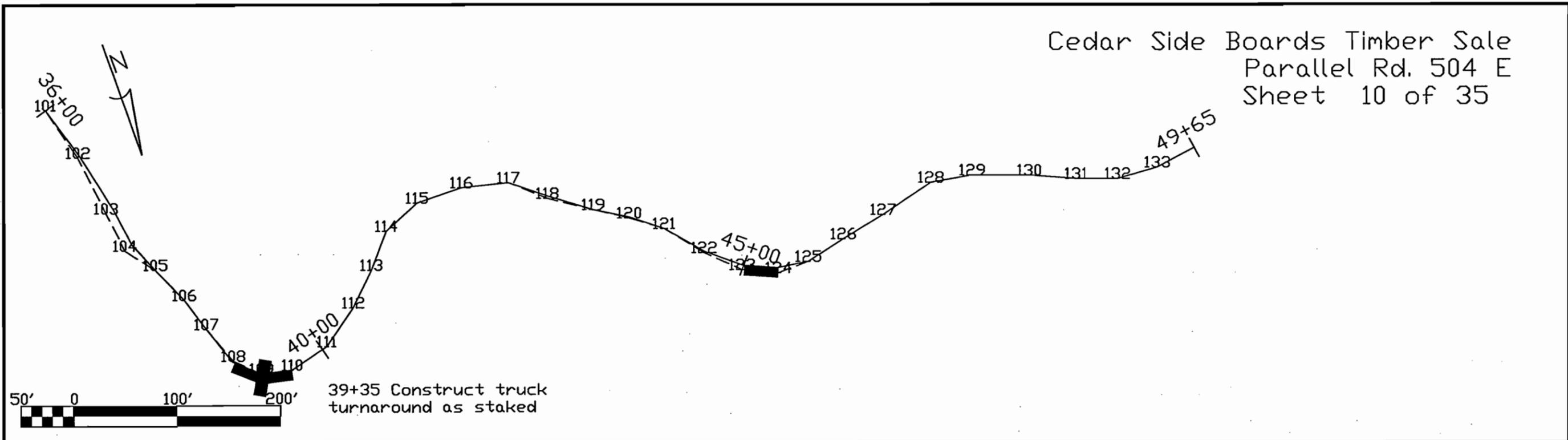
	0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00	12+00	13+00
Excavation (CY)	3	110	165	119	39	506				131	226	160		
Haul (sta yd)	0	5	31	37	2	384			30	12	60	70	40	0
Clear (ac)						1.10								
Seed (ac)						0.92								

Item 203(01)H
 Item 201(01)
 Item 625(07)

Cedar Side Boards Timber Sale
 Parallel Rd. 504 E
 Sheet 8 of 35



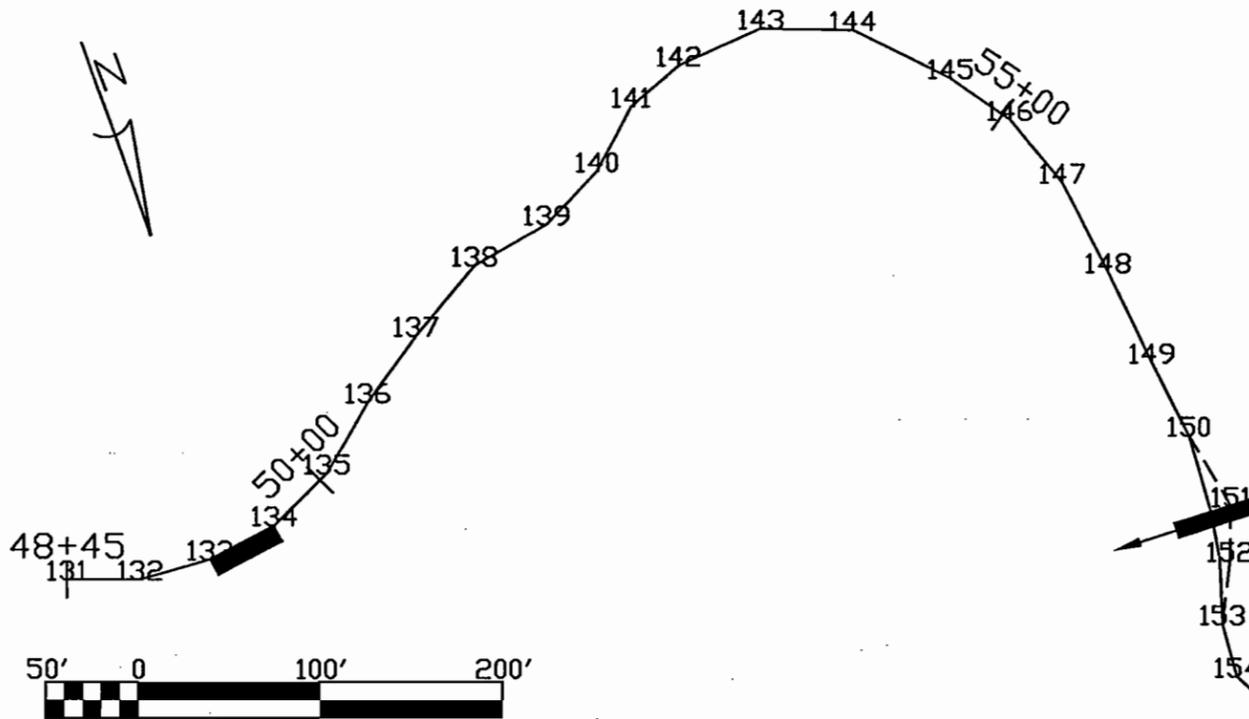
Cedar Side Boards Timber Sale
 Parallel Rd. 504 E
 Sheet 10 of 35



	36+00	37+00	38+00	39+00 +05	40+00	41+00 +90	42+00 +15	43+00 +00	44+00	45+00 +60	46+00 +50	47+00	48+00	49+00 +45 +85
Excavation (CY)			507		326	123	48	212		281		197		43
Haul (sta yd)		228			37	23	6	91		56		14		S.B.
Clear (ac)								1.20						
Seed (ac)								1.01						

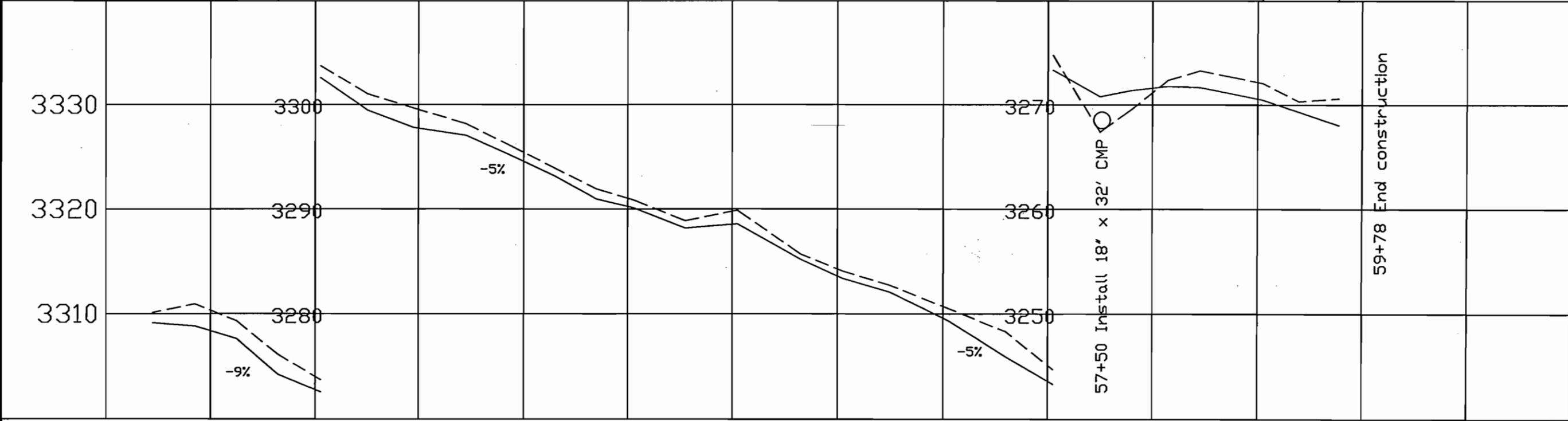
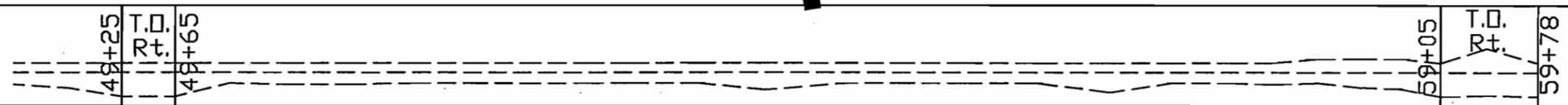
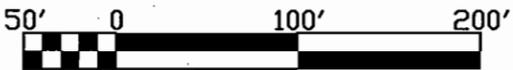
Item 203(01)H
 Item 201(01)
 Item 625(07)

Cedar Side Boards Timber Sale
 Parallel Rd. 504 E
 Sheet 11 of 35



59+40 Construct truck
 turnaround as staked

59+78 End construction

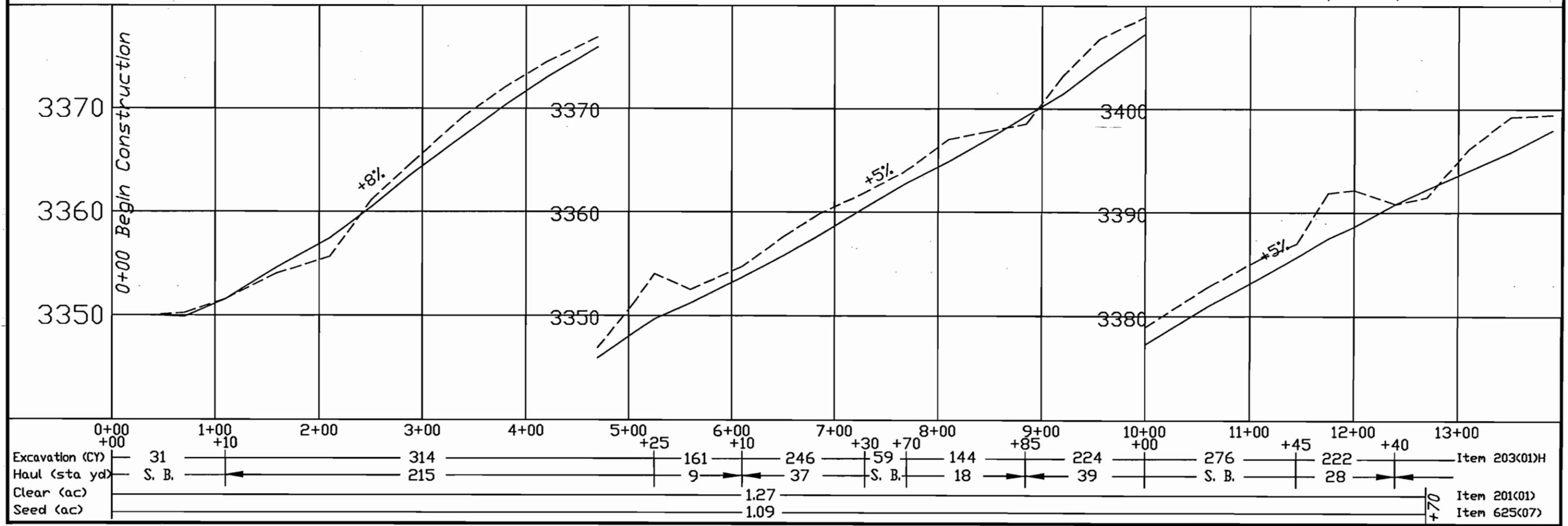
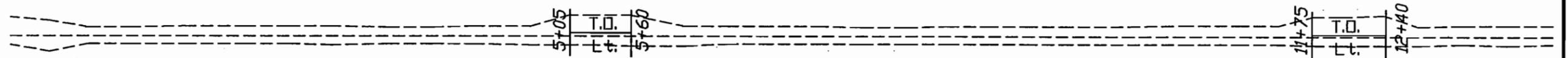
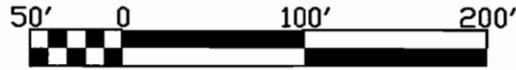


Excavation (CY)	93	548	150	254	
Haul (sta yd)	3	SELF BALANCE	21	148	
Clear (ac)					0.92
Seed (ac)					0.73

Item 203(01)H
 Item 201(01)
 Item 625(07)

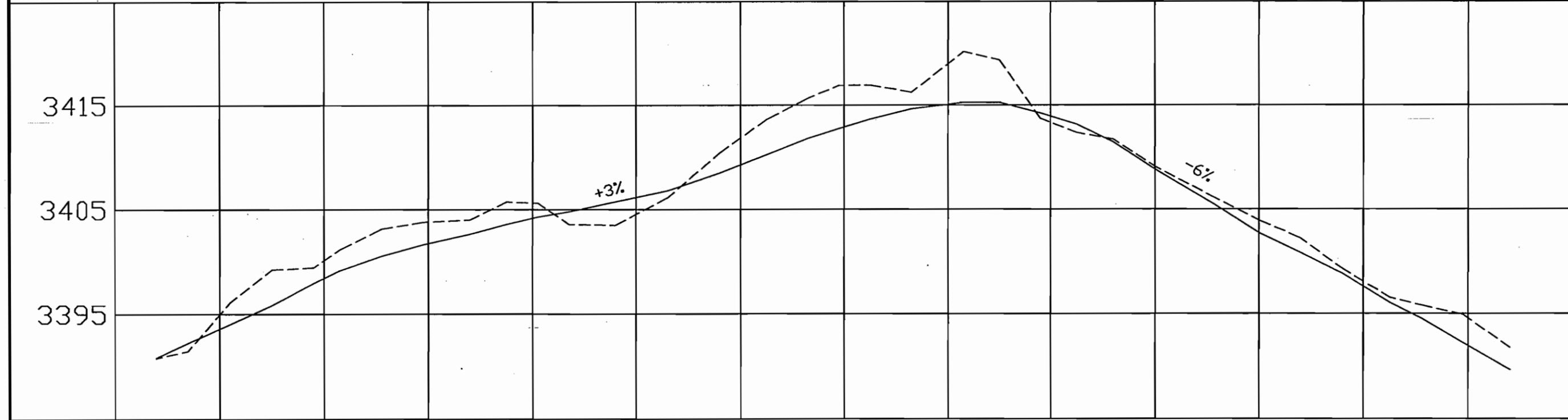
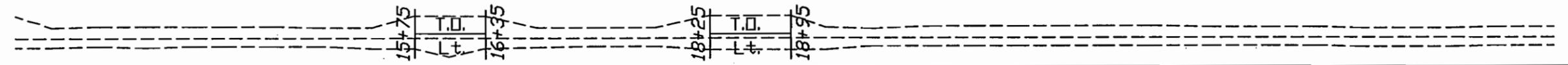
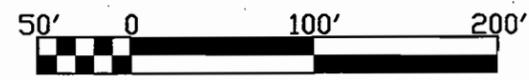
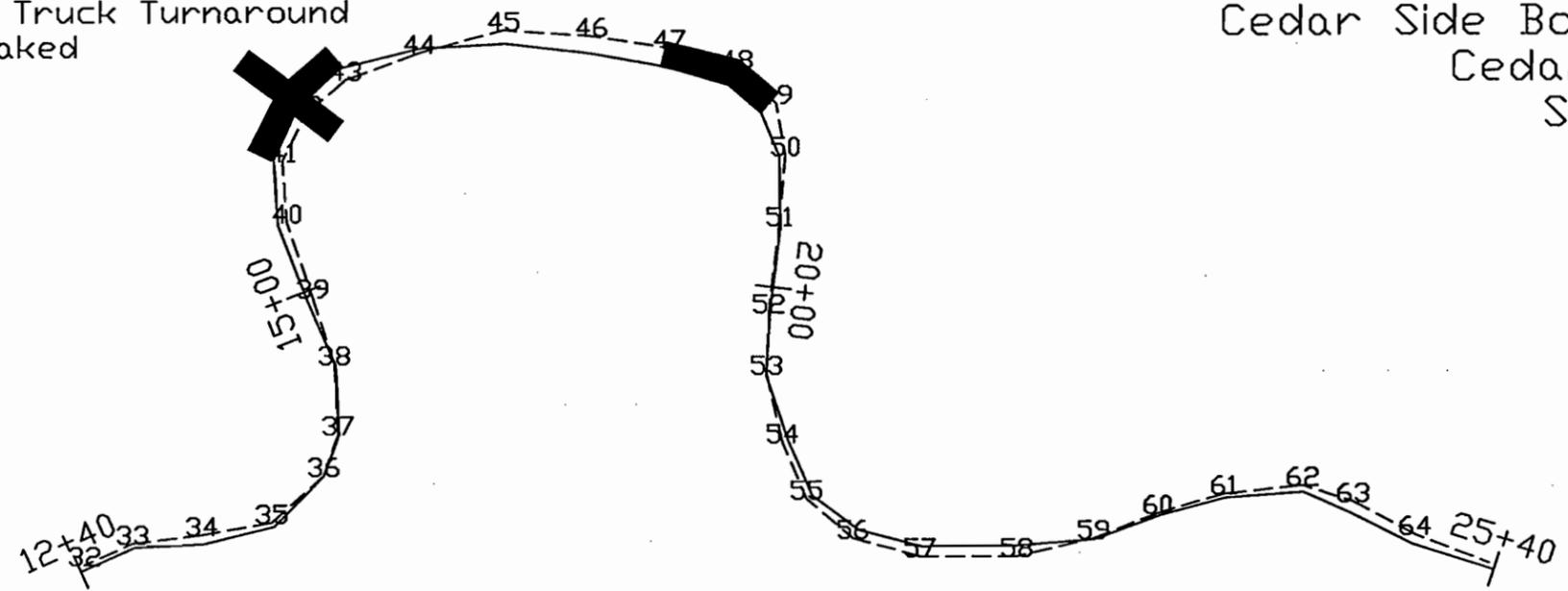
Cedar Side Boards Timber Sale
 Cedar Shake Rd. 504F
 Sheet 12 of 35

0+00 Begin Construction
 Rd 504A M.P. 0.73

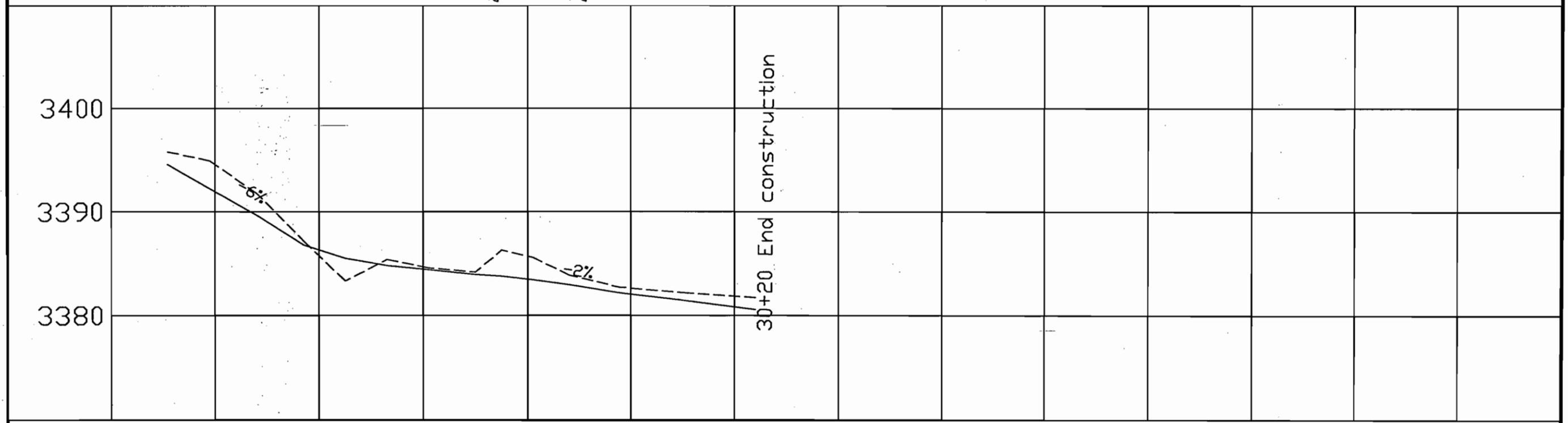
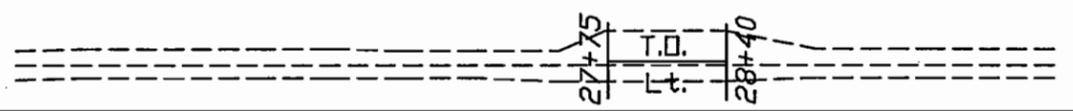
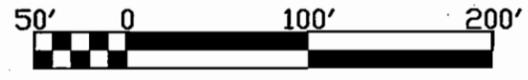
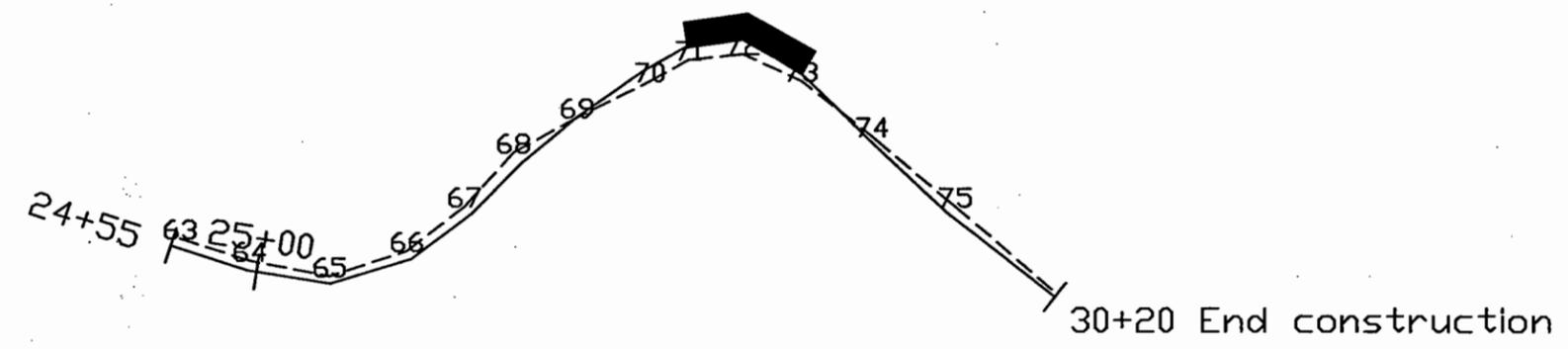


16+05 Const. Truck Turnaround
as staked

Cedar Side Boards Timber Sale
Cedar Shake Rd. 504F
Sheet 13 of 35



	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00	25+00
Excavation (CY)	+40			+95		+80		+65				+00	+25	
Haul (sta yd)	←	439			317			617		538			124	Item 203(01)H
Clear (ac)		163			66			591		266			S B.	
Seed (ac)			+70					1.23						Item 201(01)
								1.08						+ Item 625(07)



	24+00	25+00	26+00	27+00	28+00	29+00	30+00	31+00	32+00	33+00	34+00	35+00	36+00	37+00
Excavation (CY)														
Haul (sta yd)														
Clear (ac)														
Seed (ac)														
	+25			+65	+05	+50	+90	+20						
		263		21	31	175	90							
		127		1	S. B.	25	S. B.							
	+55		0.50											
			0.41											

30+20 End construction

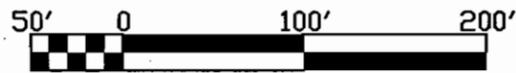
Item 203(01)H
 Item 201(01)
 Item 625(07)

Cedar Side Boards Timber Sale
 Christmas Time Rd. 3321 A
 Sheet 15 of 35

0+00 Begin reconstruction
 Rd. 3321 (M.P. 1.20)

0+13 to 4+50 Embank
 714 Cu. Yds. as staked.
 Item 203(10) from source
 on road 3321

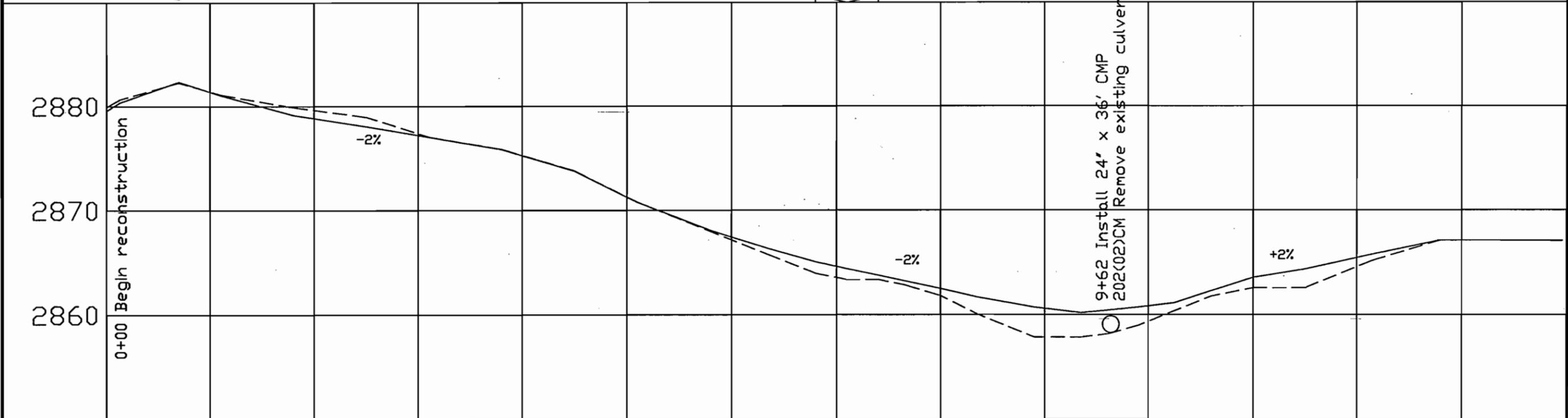
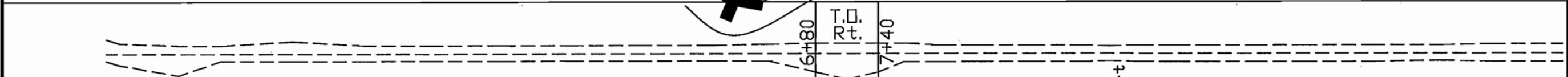
**Note: Contractor shall
 Contact Clearwater Power
 for location of buried
 power line prior to
 starting excavation.**



7+10 Construct truck
 turnaround as staked

T. 42 N., R. 2 E.
 NE 1/4 Sec. 6
 Potlatch Corporation
 T. 43 N., R. 2 E.
 SE 1/4 Sec. 31
 U.S. Gov't (F.S.)

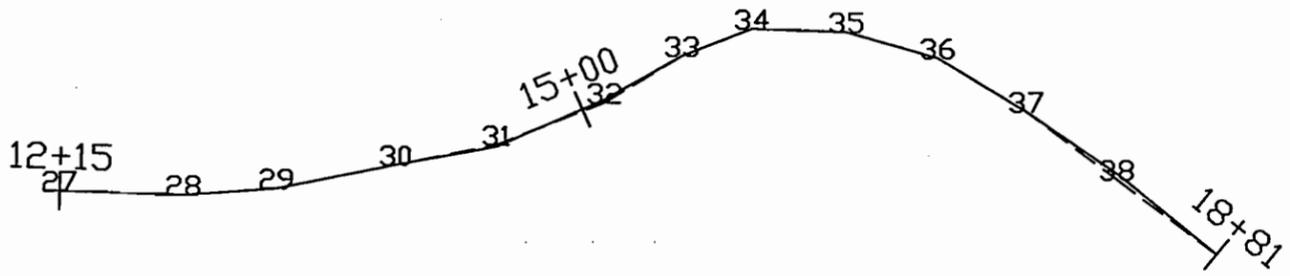
6+80 to 8+35
 10+25 to 12+15
 Construct 2' deep ditch
 left and right as staked



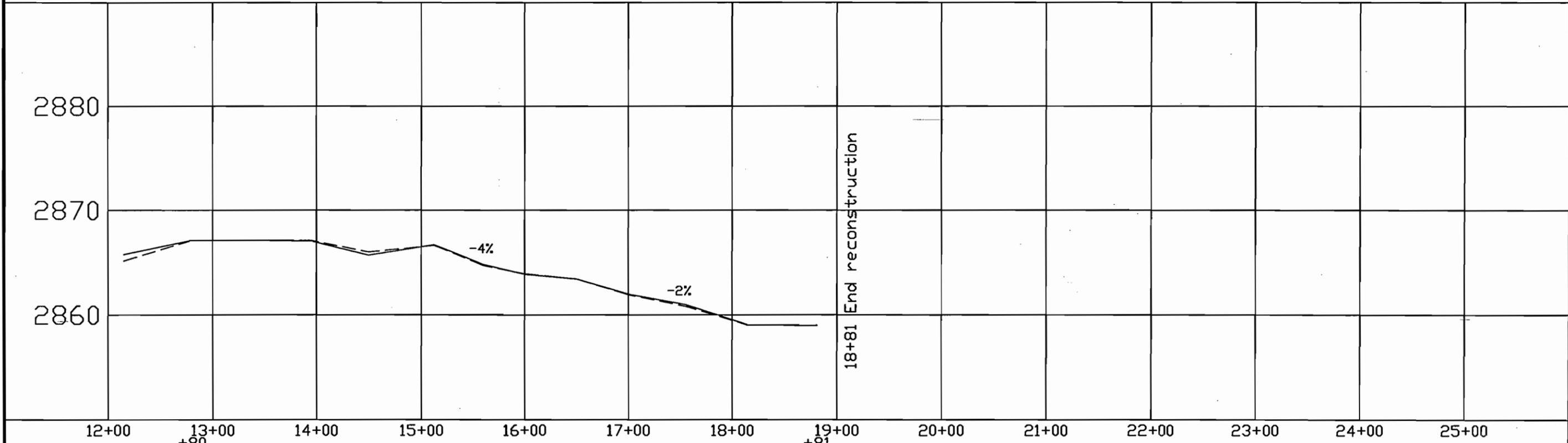
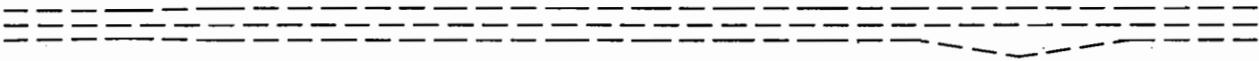
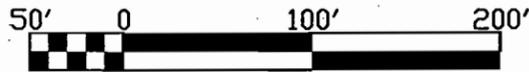
	0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00	12+00	13+00
	+00	+10				+10	+80	+10		+35		+00	+50	+80
Excavation (CY)		3		56		8	39		228		153		103	
Haul (sta yd)		16		944			6		170		99		0	45
Clear (ac)						1.29								
Seed (ac)						1.04								

Item 203(01)H
 Item 201(01)
 Item 625(07)

Cedar Side Boards Timber Sale
 Christmas Time Rd. 3321 A
 Sheet 16 of 35

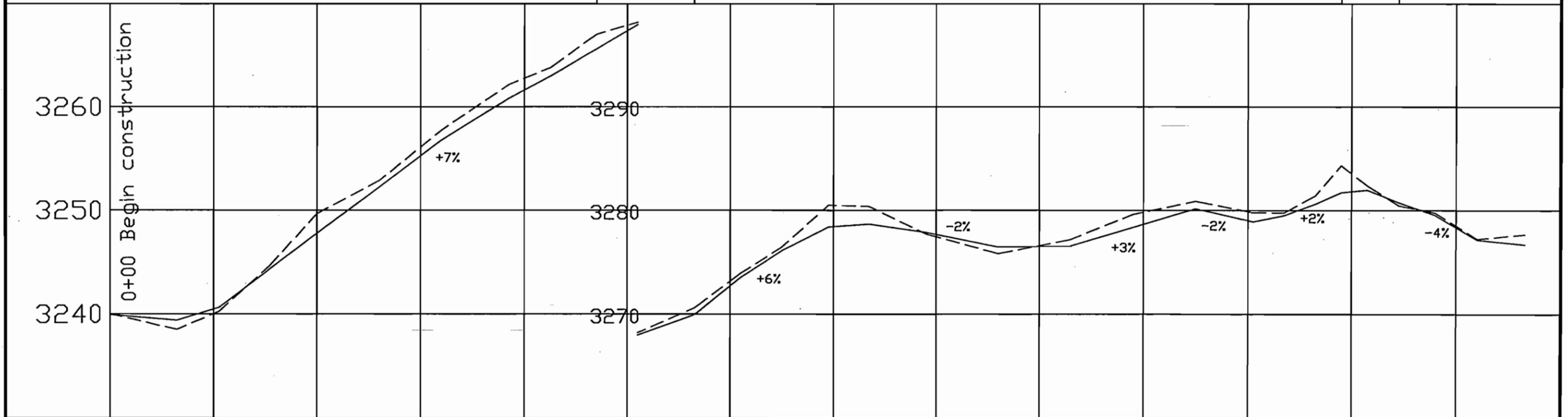
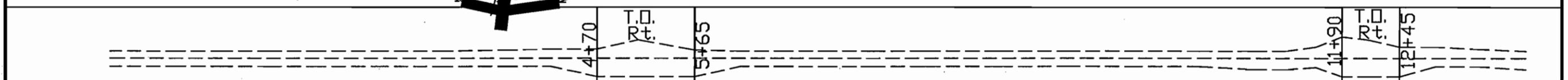
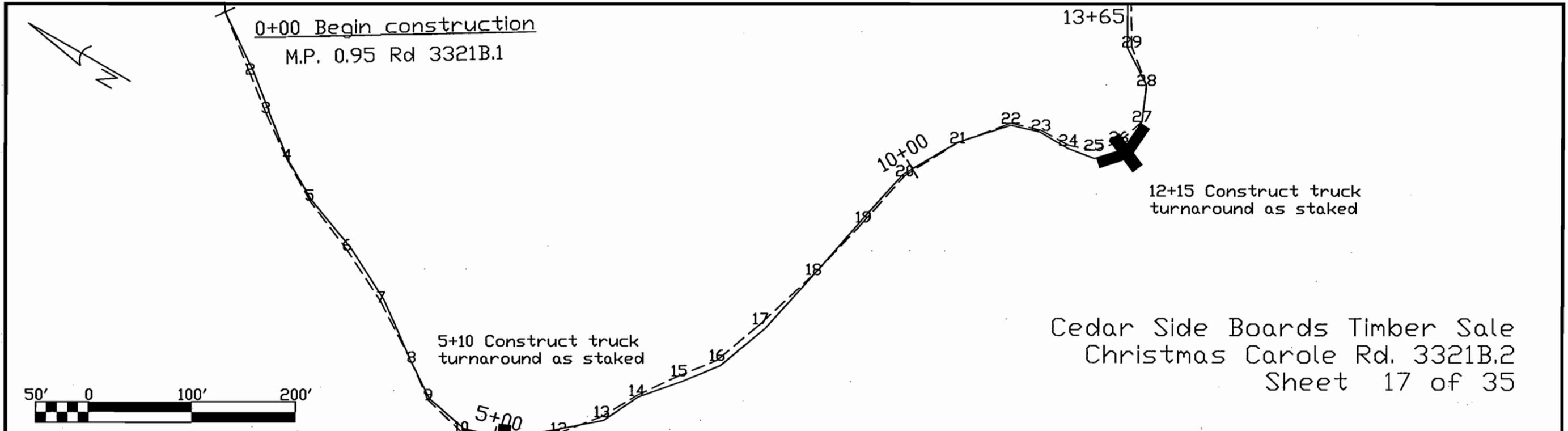


18+81 End reconstruction



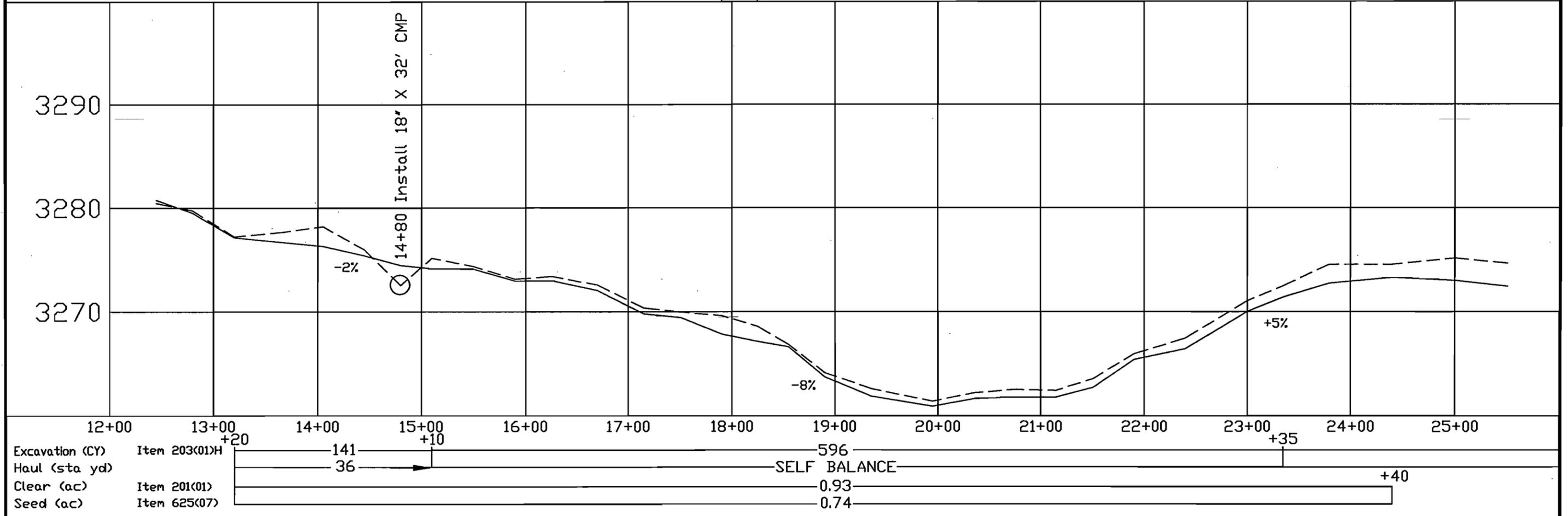
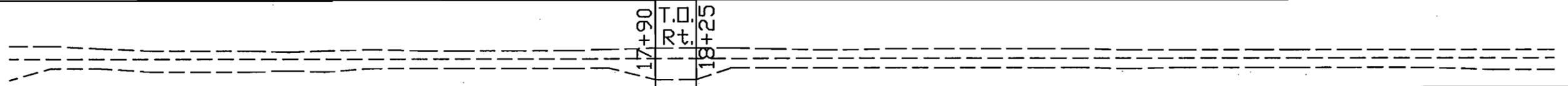
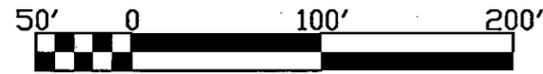
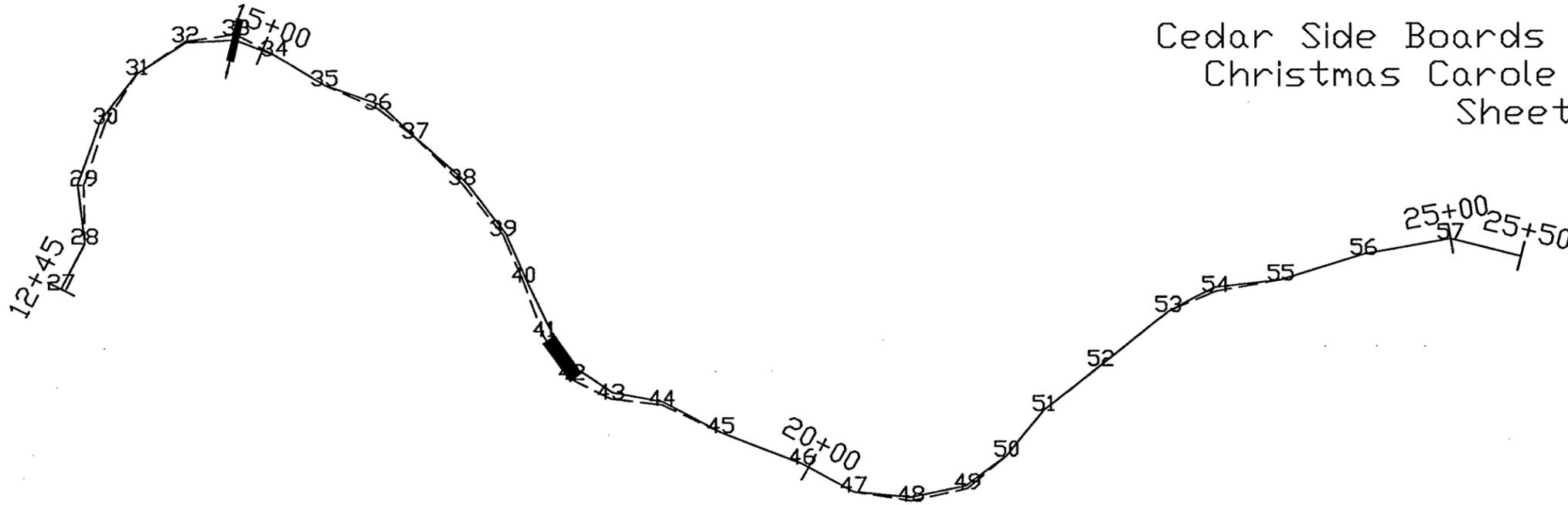
Excavation (CY)	27
Haul (sta yd)	SELF BALANCE
Clear (ac)	0.41
Seed (ac)	0.26

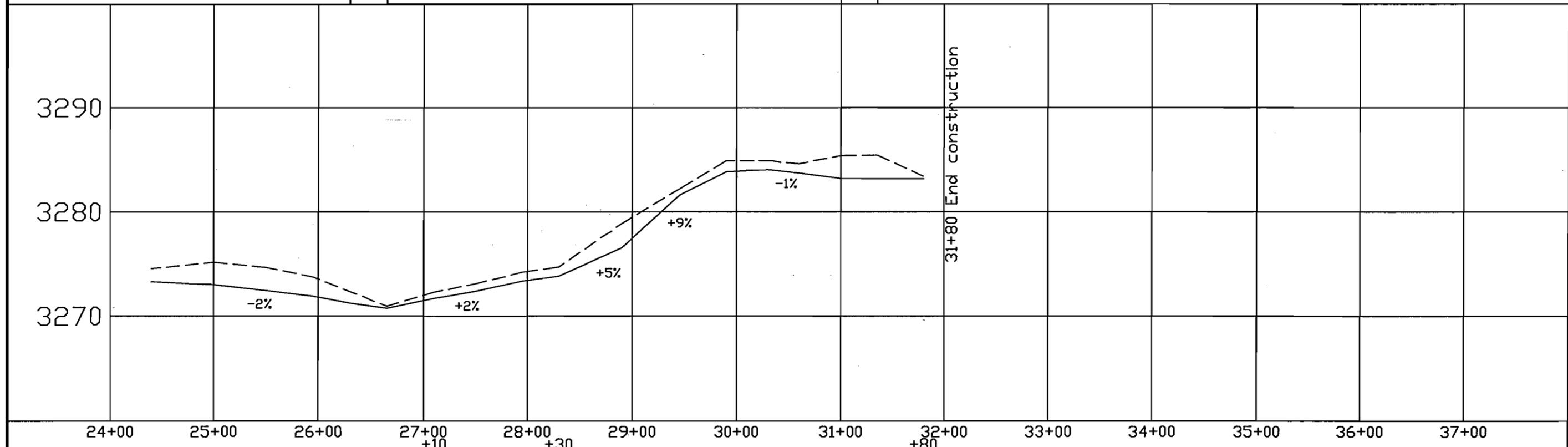
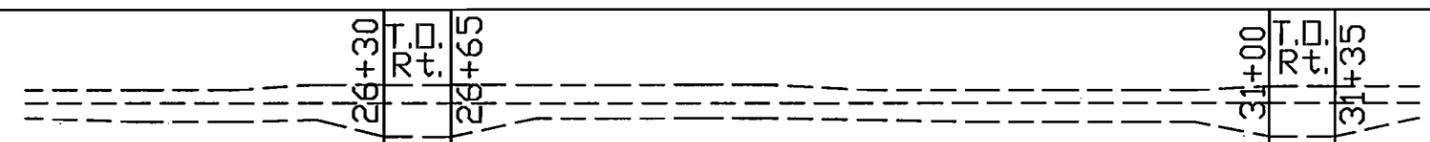
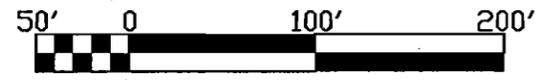
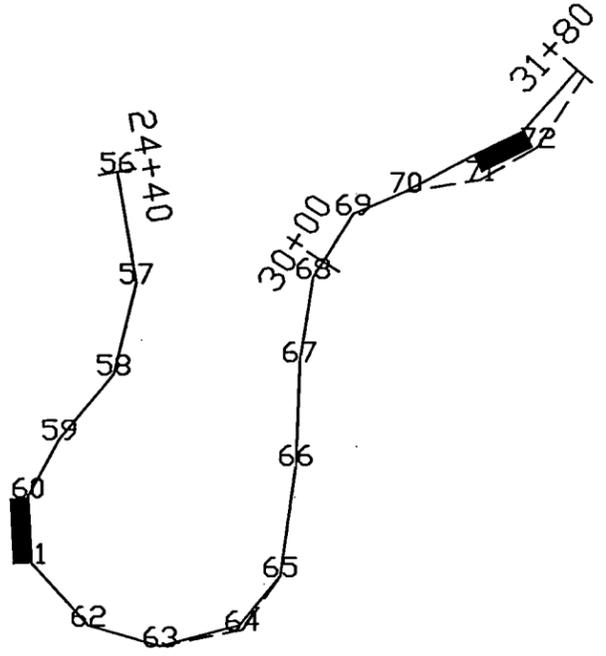
- Item 203(01)H
- Item 201(01)
- Item 625(07)



Excavation (CY)	494	180	99	259	18	Item 203(1)H
Haul (sta yd)	SELF BALANCE	93	SELF BALANCE	43	S.B.	
Clear (ac)		1.14				Item 201(1)D
Seed (ac)		0.91				Item 625(7)

Cedar Side Boards Timber Sale
 Christmas Carole Rd. 3321B.2
 Sheet 18 of 35

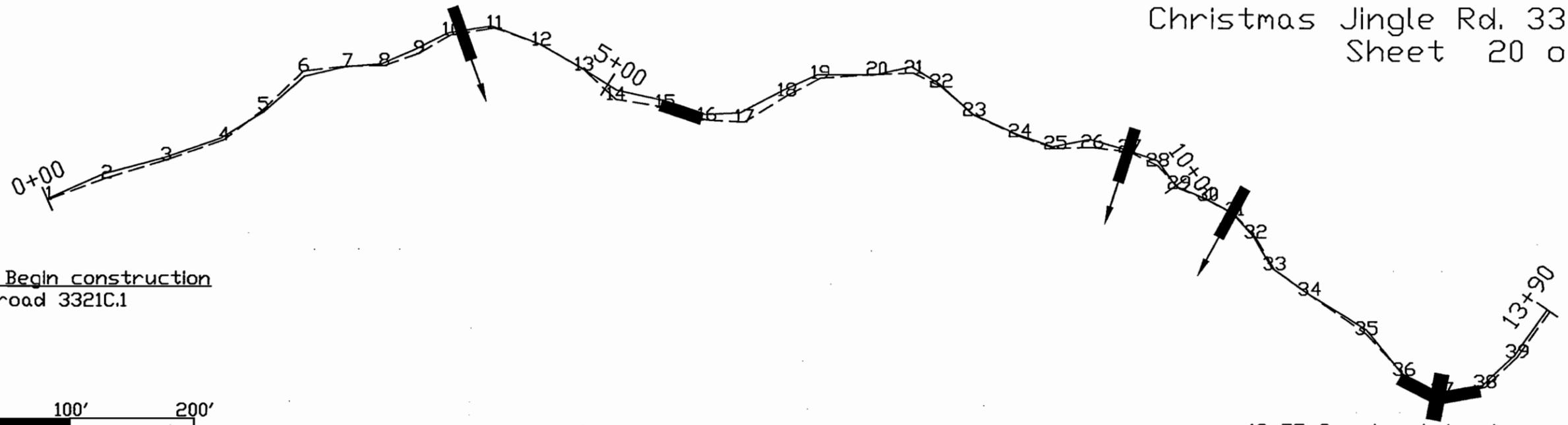




Excavation (CY)	439	133	404	
Haul (sta yd)	233	23	SELF BALANCE	
Clear (ac)	+40	0.71		
Seed (ac)		0.60		

Item 203(01)H
 Item 201(01)
 Item 625(07)

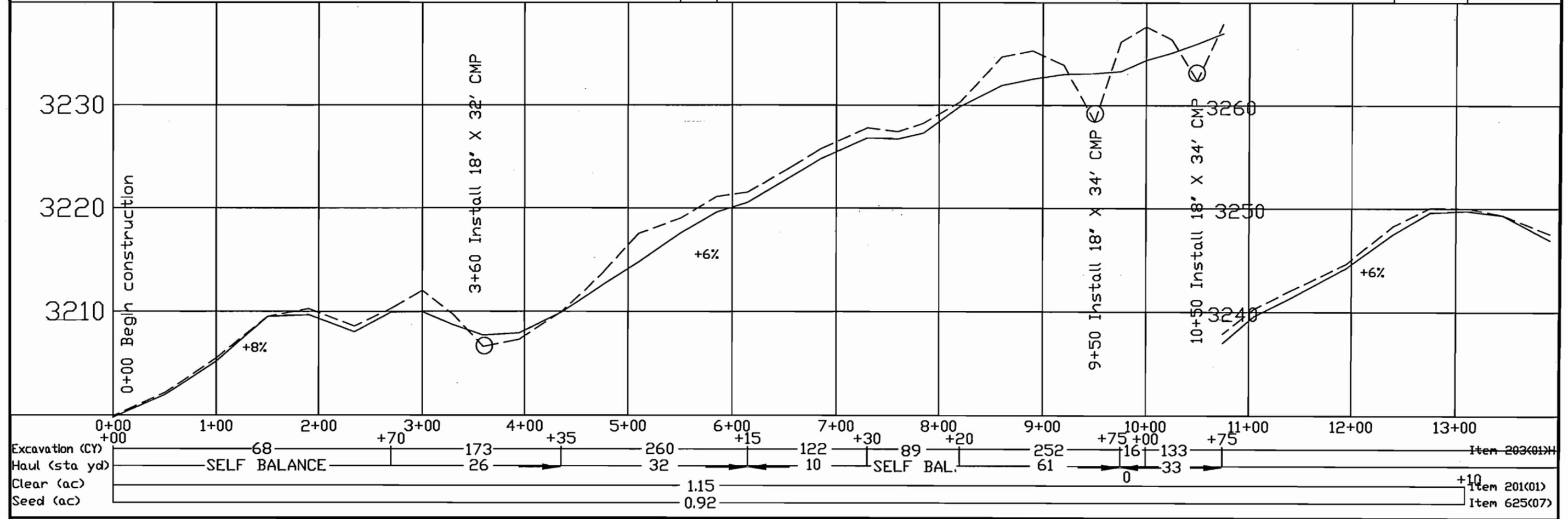
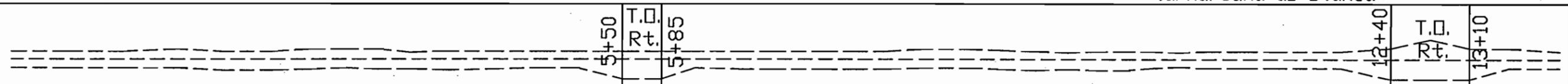
Cedar Side Boards Timber Sale
 Christmas Jingle Rd. 3321C.2
 Sheet 20 of 35



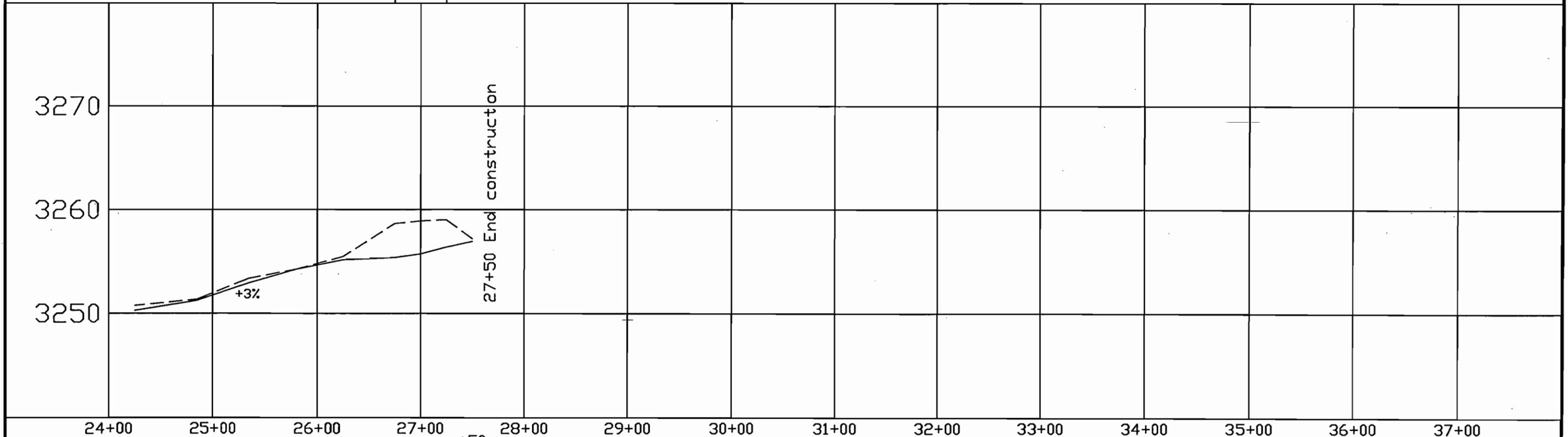
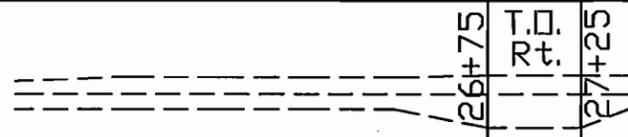
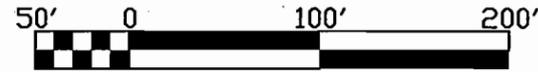
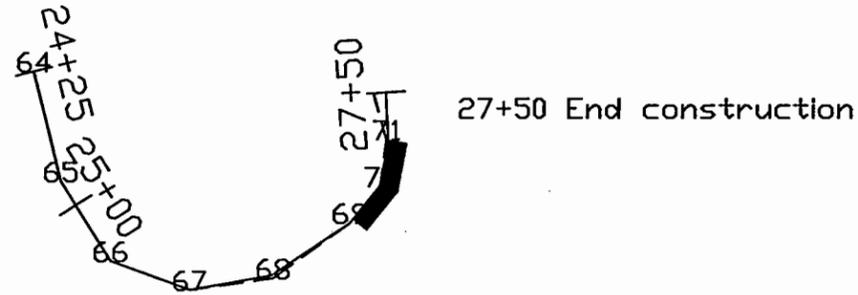
0+00 Begin construction
 M.P. road 3321C.1



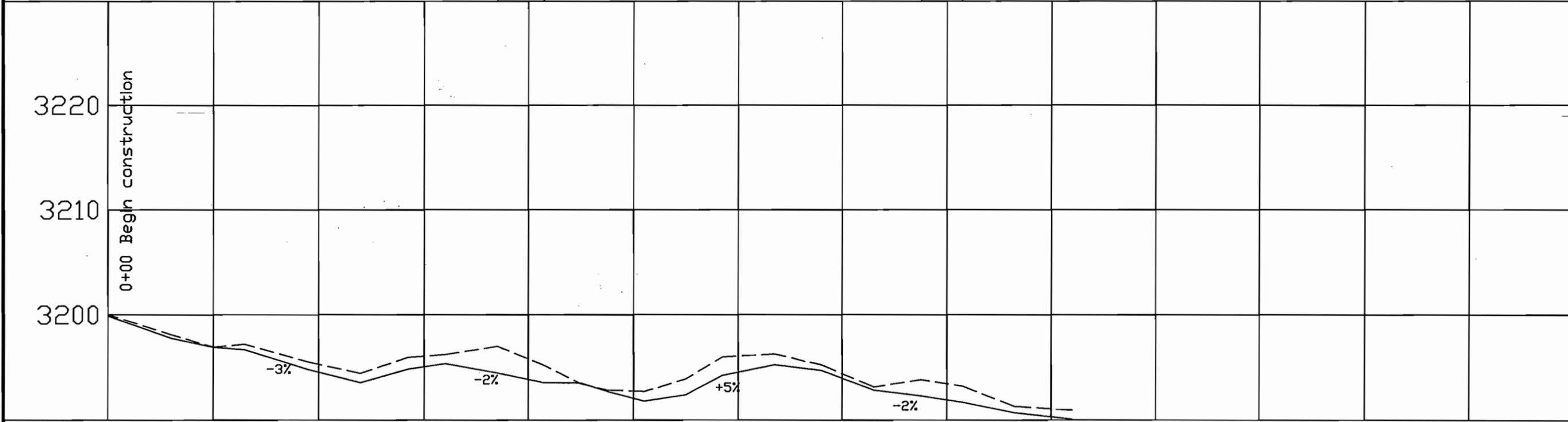
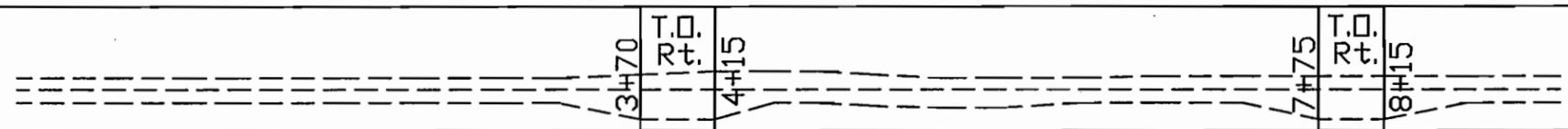
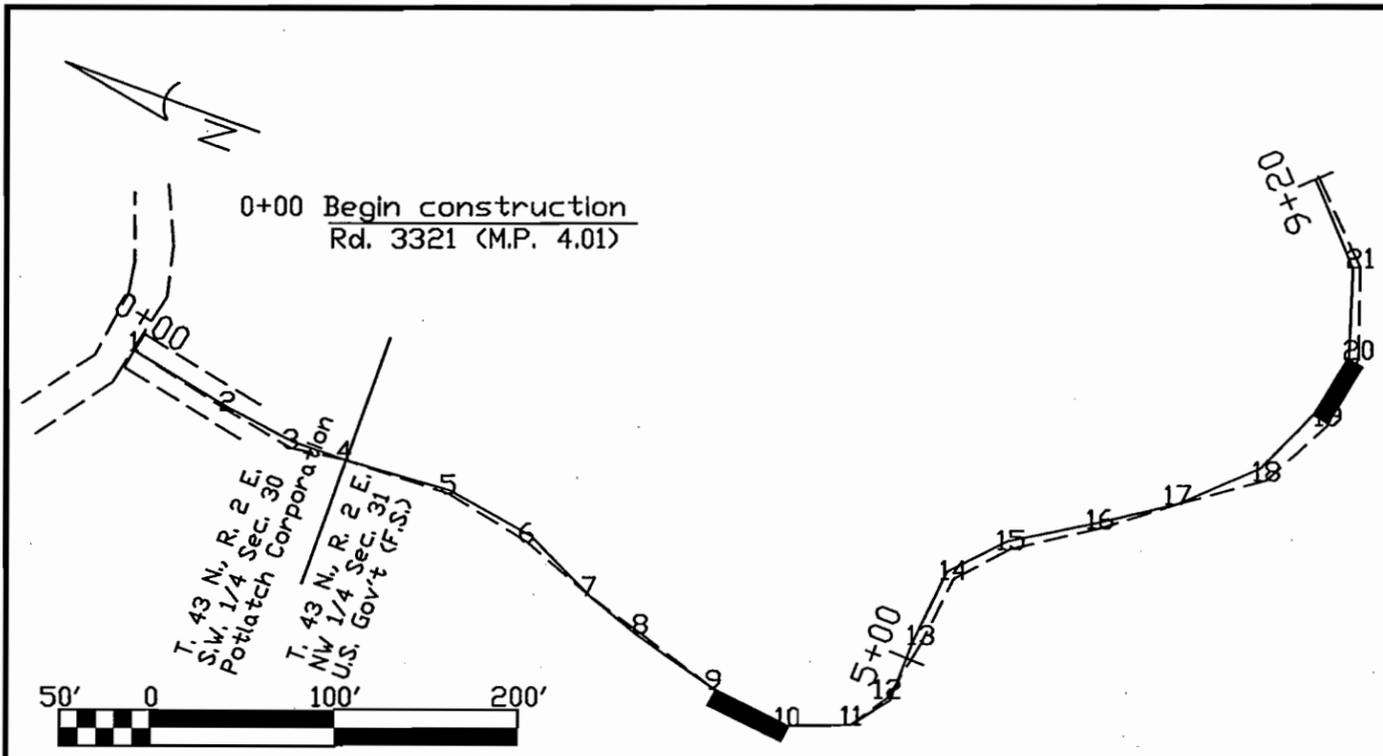
12+75 Construct truck
 turnaround as staked



Excavation (CY)	68	173	260	122	89	252	16	133		Item 203(01)
Haul (sta yd)	SELF BALANCE		26	32	10	SELF BAL.		61	0	33
Clear (ac)				1.15						+10 Item 201(01)
Seed (ac)				0.92						Item 625(07)



Excavation (CY)	940	Item 203(01)H
Haul (sta yd)	SELF BALANCE	
Clear (ac)	+35 0.21	Item 201(01)
Seed (ac)	0.18	Item 625(07)

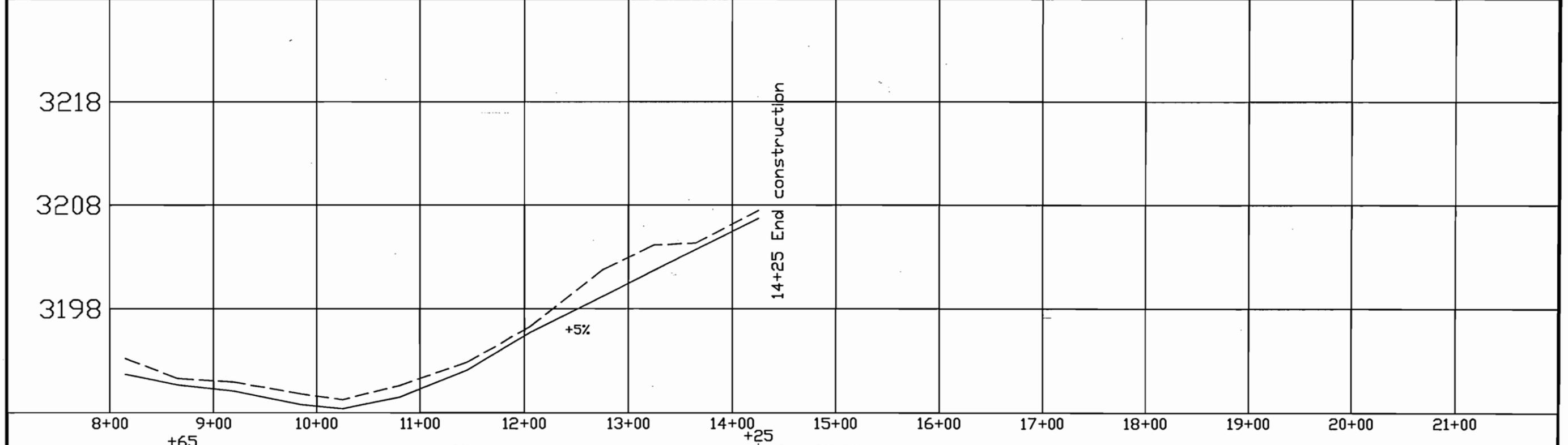
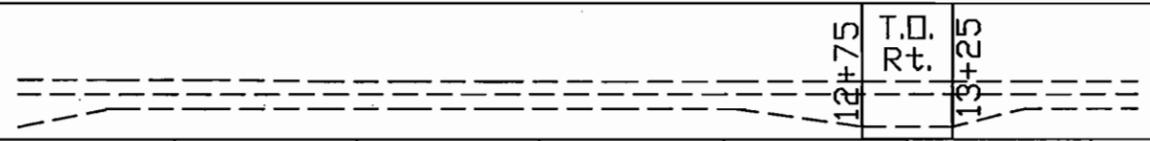
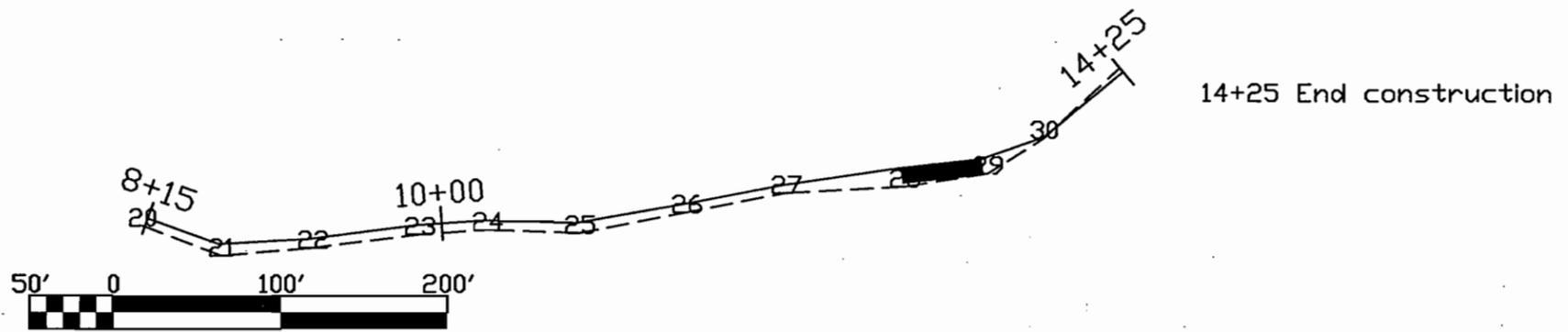


Excavation (CY)	841	Item 203(01)H
Haul (sta yd)	SELF BALANCE	
Clear (ac)	0.80	Item 201(01)
Seed (ac)	0.66	Item 625(07)

0+00 +00

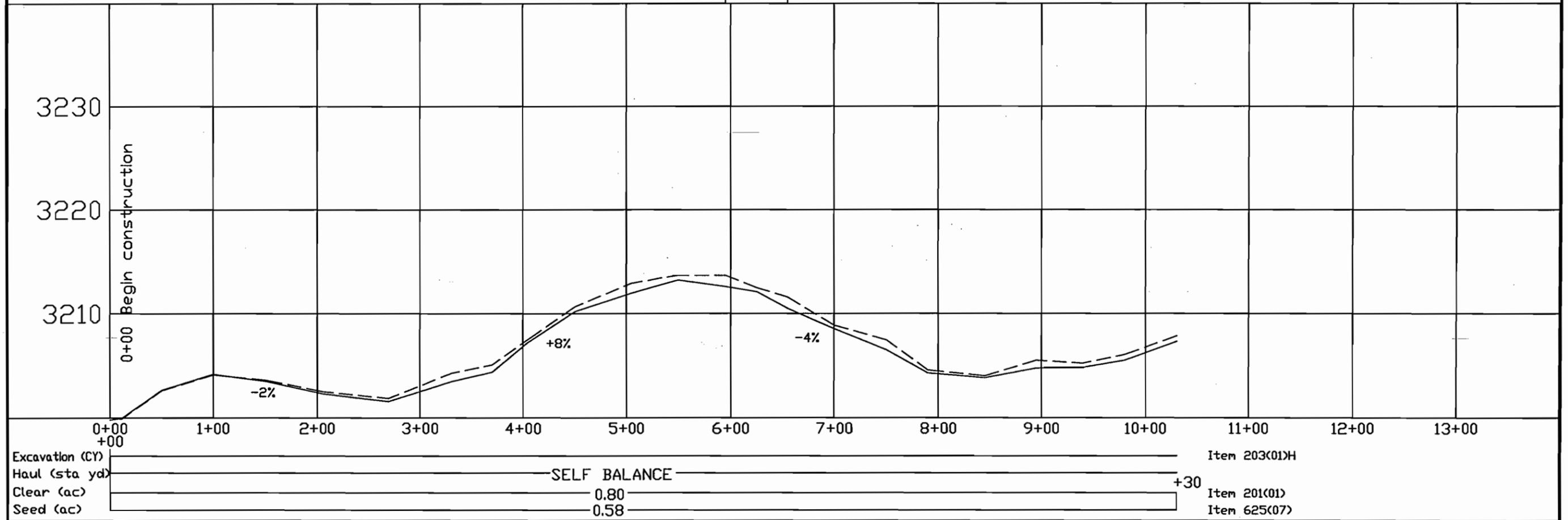
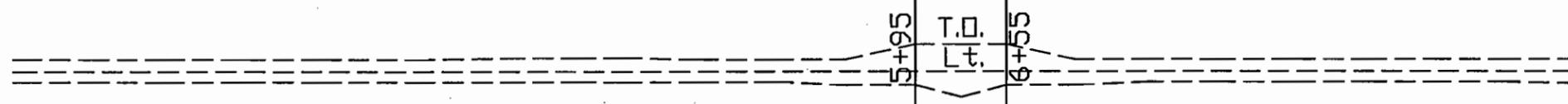
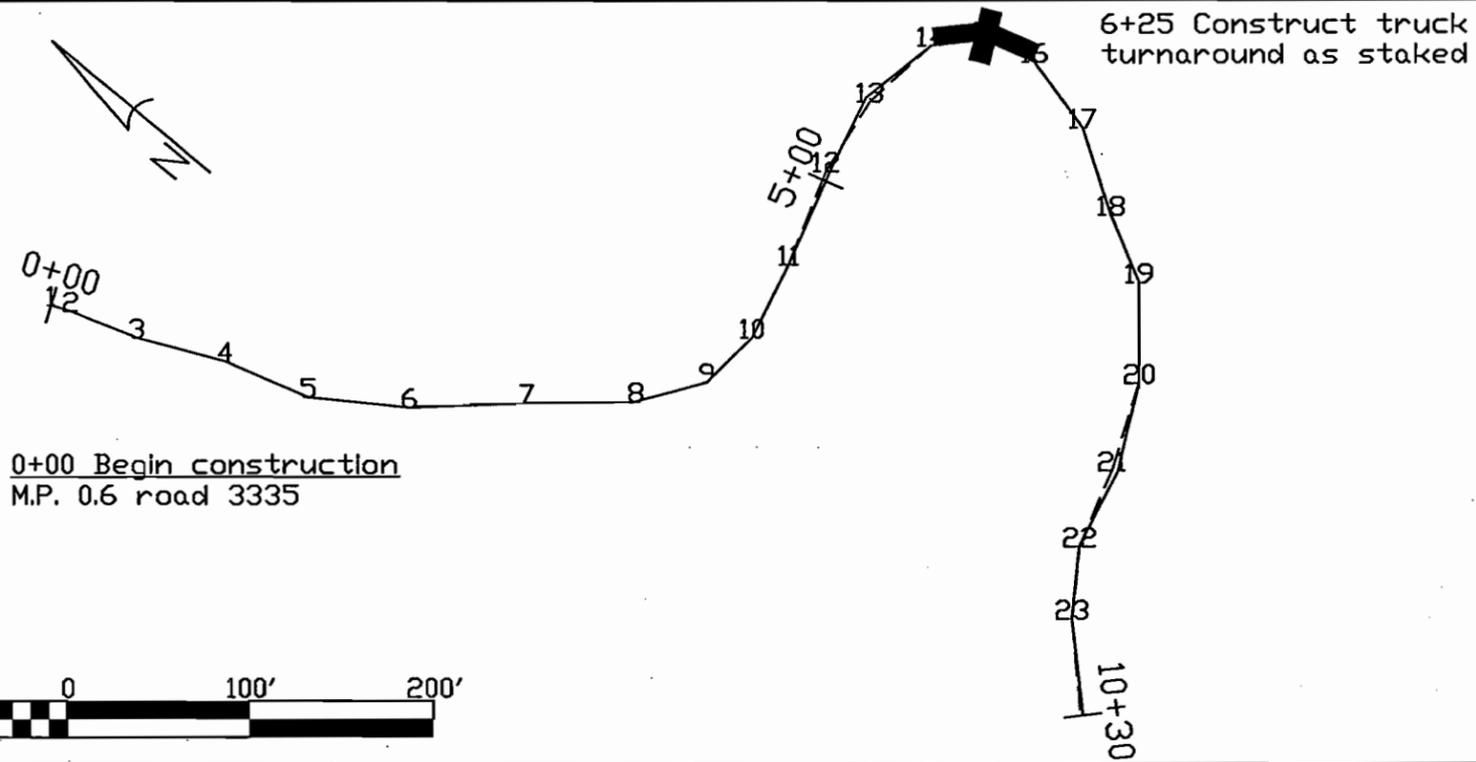
1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00

+65

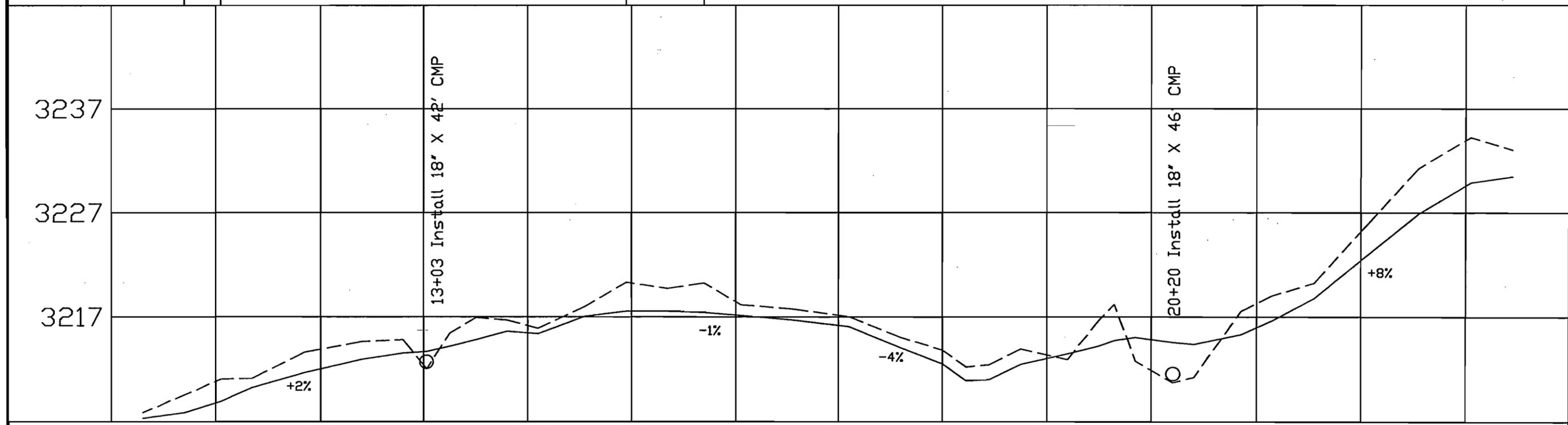
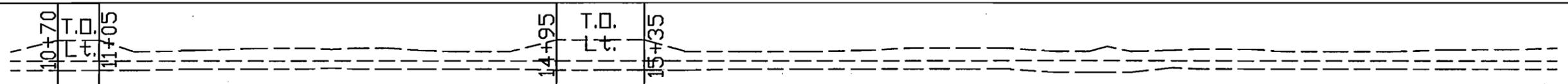
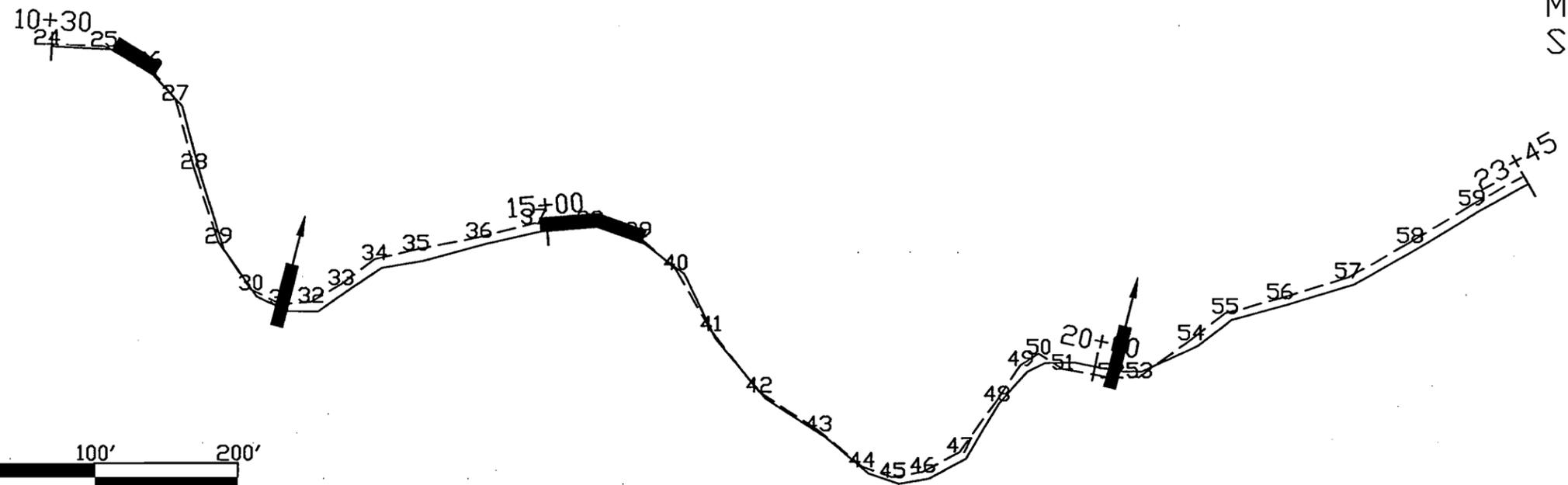


Excavation (CY)	+65	634	Item 203(01)H
Haul (sta yd)		SELF BALANCE	
Clear (ac)		0.54	Item 201(01)
Seed (ac)		0.46	Item 625(07)

Cedar Side Boards Timber Sale
 Misfire Rd. 3335C
 Sheet 25 of 35

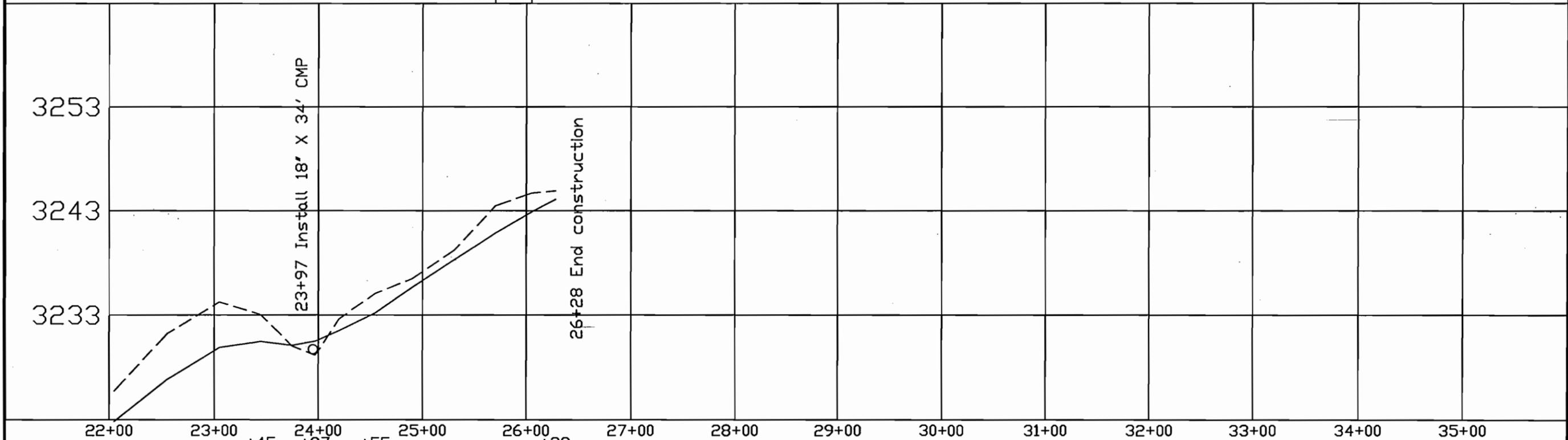
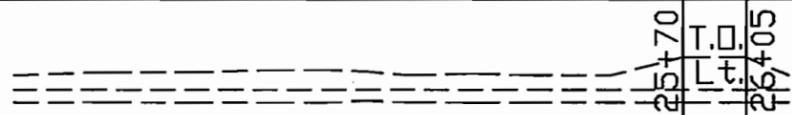
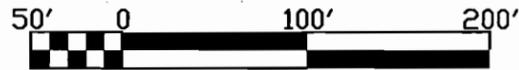
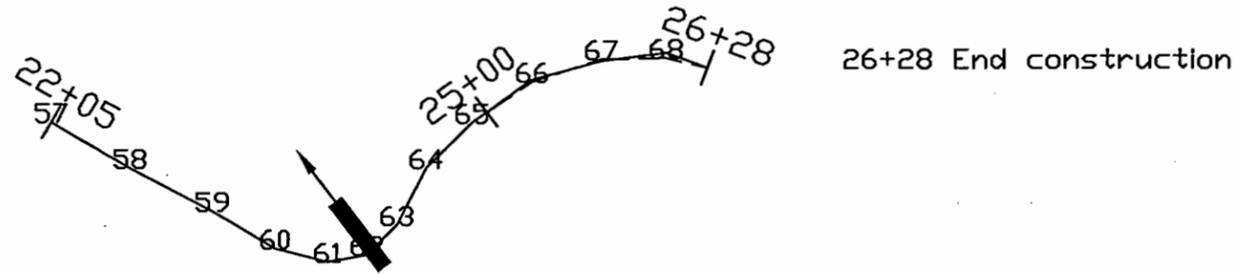


Cedar Side Boards Timber Sale
 Misfire Rd. 3335C
 Sheet 26 of 35

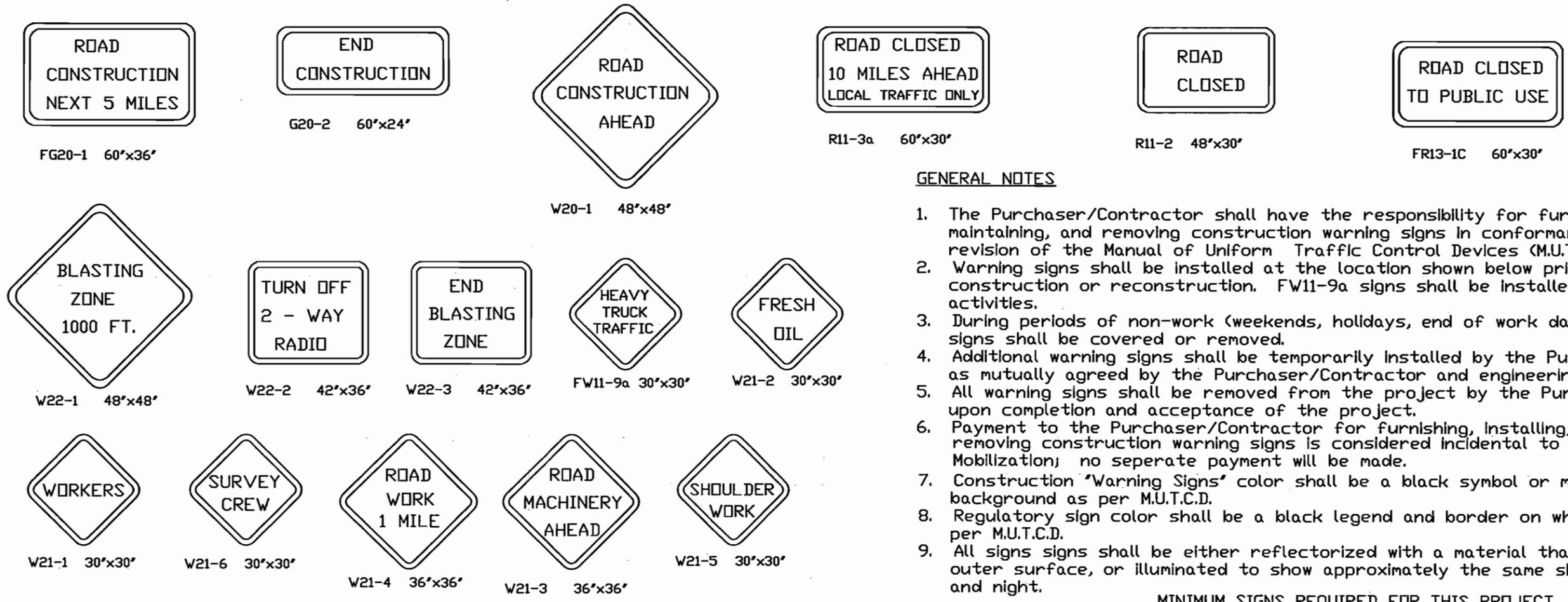


Excavation (CY)	627	374	708	943
Haul (sta yd)-SELF BALANCE	+35	58	SELF BALANCE	733
Clear (ac)	+30		1.39	
Seed (ac)			1.24	

Item 203(01)H +45
 Item 201(01)
 Item 625(07)



Excavation (CY)	+45	+97	+55	169	+28	Item 203(01)H
Haul (sta yd)	123	64				
Clear (ac)	16	2				Item 201(01)
Seed (ac)			0.27			Item 625(07)
			0.23			



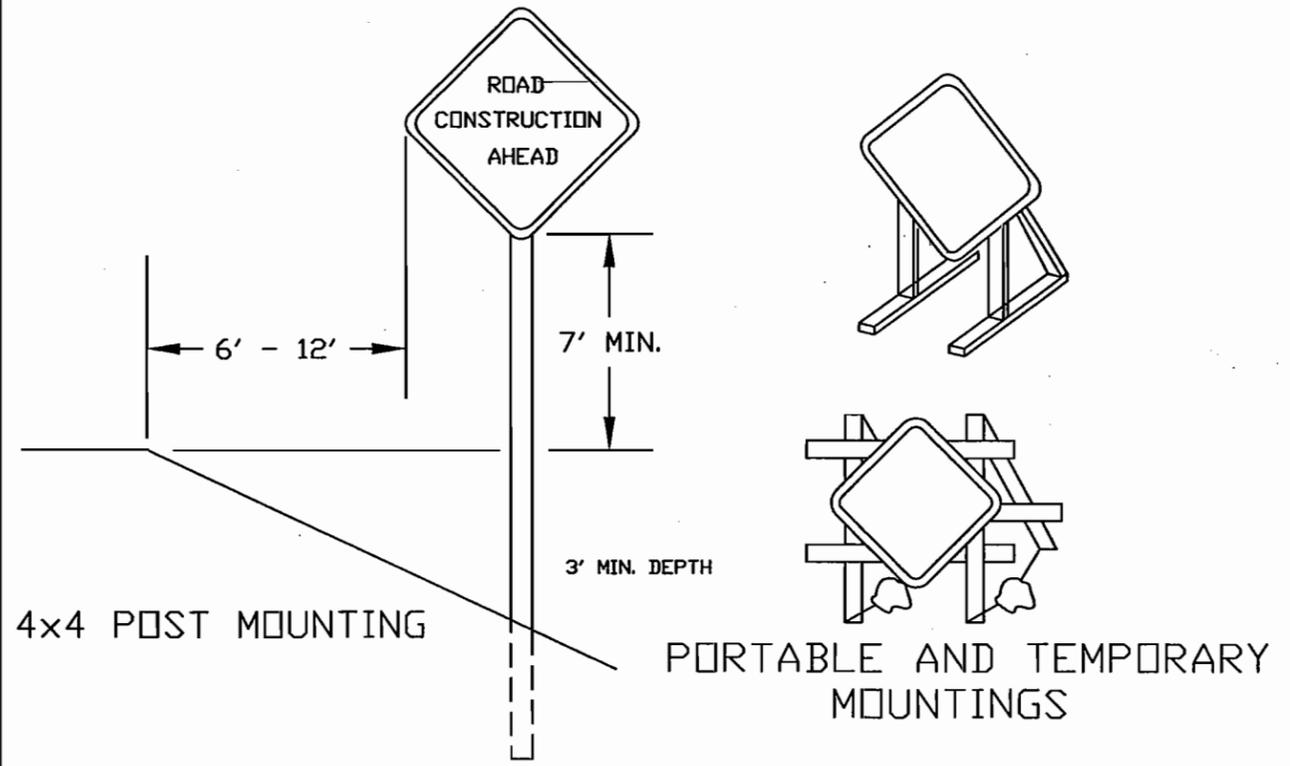
TYPICAL CONSTRUCTION WARNING SIGNS (AS PER M.U.T.C.D)

GENERAL NOTES

1. The Purchaser/Contractor shall have the responsibility for furnishing, installing, maintaining, and removing construction warning signs in conformance with the latest revision of the Manual of Uniform Traffic Control Devices (M.U.T.C.D).
2. Warning signs shall be installed at the location shown below prior to beginning of construction or reconstruction. FW11-9a signs shall be installed prior to hauling activities.
3. During periods of non-work (weekends, holidays, end of work day, etc.) all FW11-9a signs shall be covered or removed.
4. Additional warning signs shall be temporarily installed by the Purchaser/Contractor as mutually agreed by the Purchaser/Contractor and engineering representative.
5. All warning signs shall be removed from the project by the Purchaser/Contractor upon completion and acceptance of the project.
6. Payment to the Purchaser/Contractor for furnishing, installing, maintaining, and removing construction warning signs is considered incidental to Pay Item 601 - Mobilization; no separate payment will be made.
7. Construction "Warning Signs" color shall be a black symbol or message on an orange background as per M.U.T.C.D.
8. Regulatory sign color shall be a black legend and border on white background as per M.U.T.C.D.
9. All signs shall be either reflectorized with a material that has a smooth, sealed outer surface, or illuminated to show approximately the same shape and color day and night.

MINIMUM SIGNS REQUIRED FOR THIS PROJECT

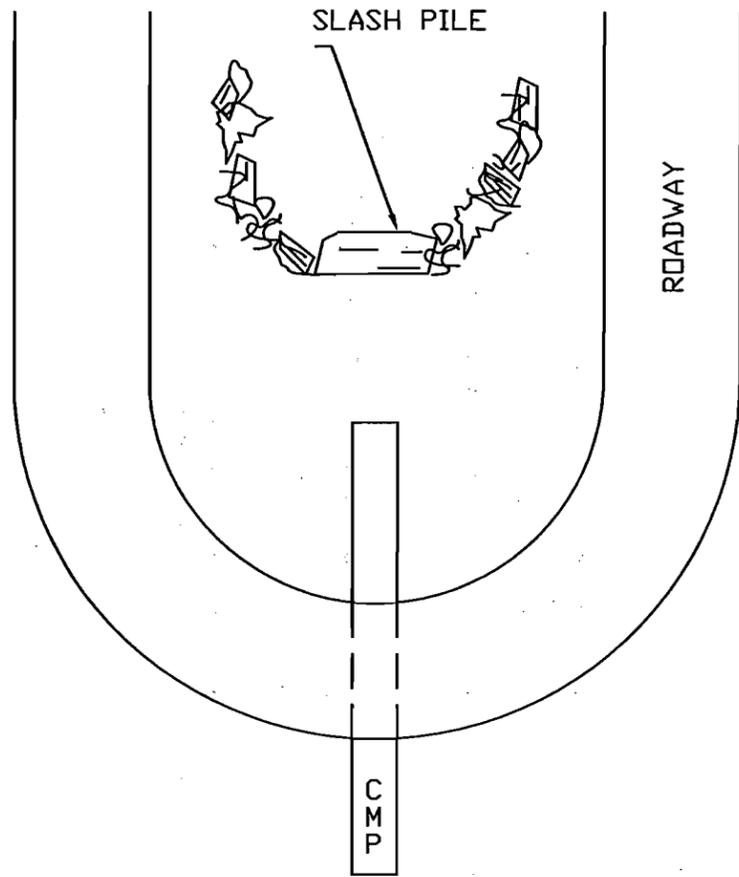
ROAD	LOCATION	WARNING SIGN	PERIOD OF USE
504	Jct. w/ SH - 3 Jct w/ Rd 447 Jct w/ Rd 3557A	HEAVY TRUCK TRAFFIC FW11-9a	Log, Water, or Aggregate Haul
504A	Jct. w/ Rd 504	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconstruction Activities
504E	Jct. w/ Rd 504A	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Construction Activities
504F	Jct. w/ Rd 504A	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconstruction Activities
504G	M.P. 0.01	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconstruction Activities
3321	Jct. w/ county road (M.P. 0.01)	HEAVY TRUCK TRAFFIC FW11-9a	Log, Water, or Aggregate Haul
3321A	Jct. w/ Rd 3321	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconstruction Activities
3321B	Jct. w/ Rd 3321	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconst./Construction Activities
3321C	Jct. w/ Rd 3321	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconst./Construction Activities
3321E	Jct. w/ Rd 3321	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Construction Activities
3335	Jct. w/ SH - 3	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconstruction Activities
3335C	Jct. w/ Rd 3335	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Construction Activities
3478	100' S of Jct w/ Rd 504	HEAVY TRUCK TRAFFIC FW11-9a	Log, Water, or Aggregate Haul
3557	Jct. w/ Rd 3557A	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconstruction Activities



TYPICAL SIGN INSTALLATION (AS PER M.U.T.C.D)

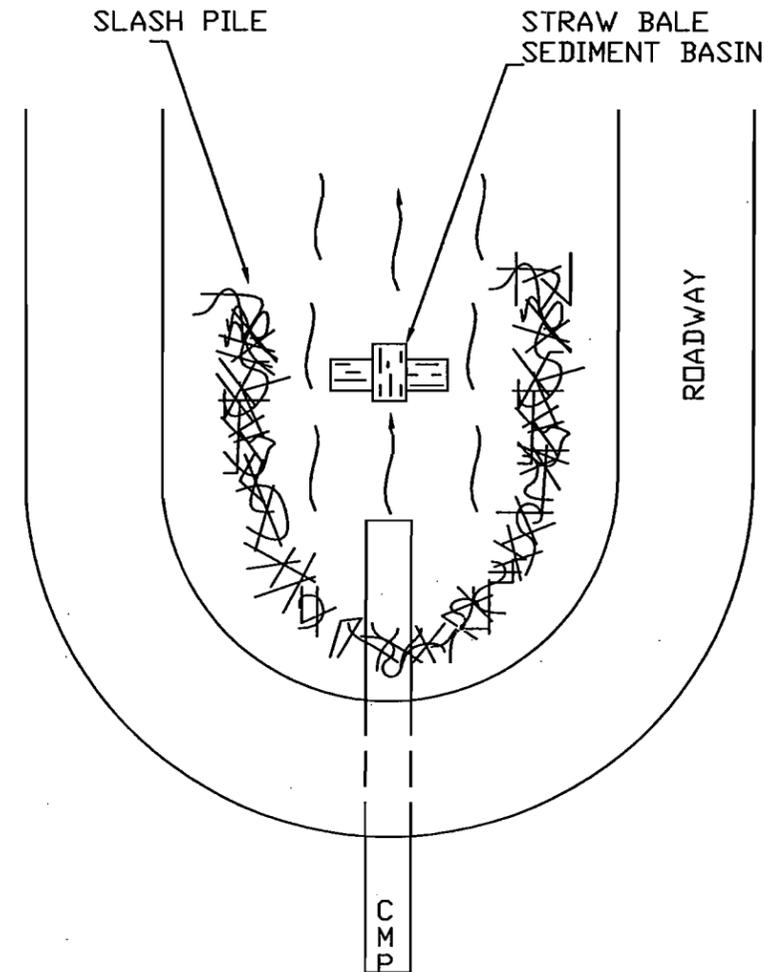
Additional signs may be necessary as required by County, State and Federal agencies.

PLAN - DRY DRAW

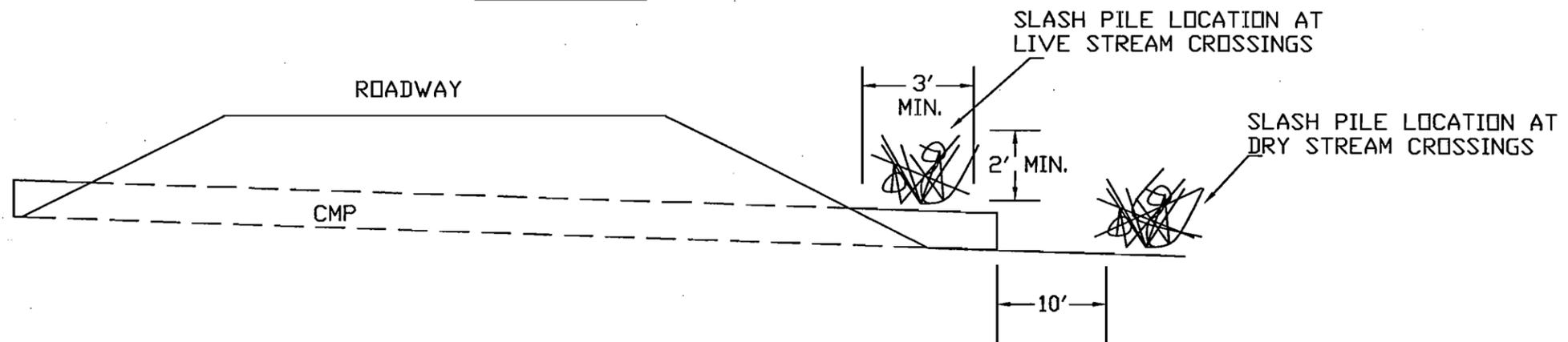


PILING CONSTRUCTION
SLASH TYPICAL SECTION

PLAN - WET DRAW

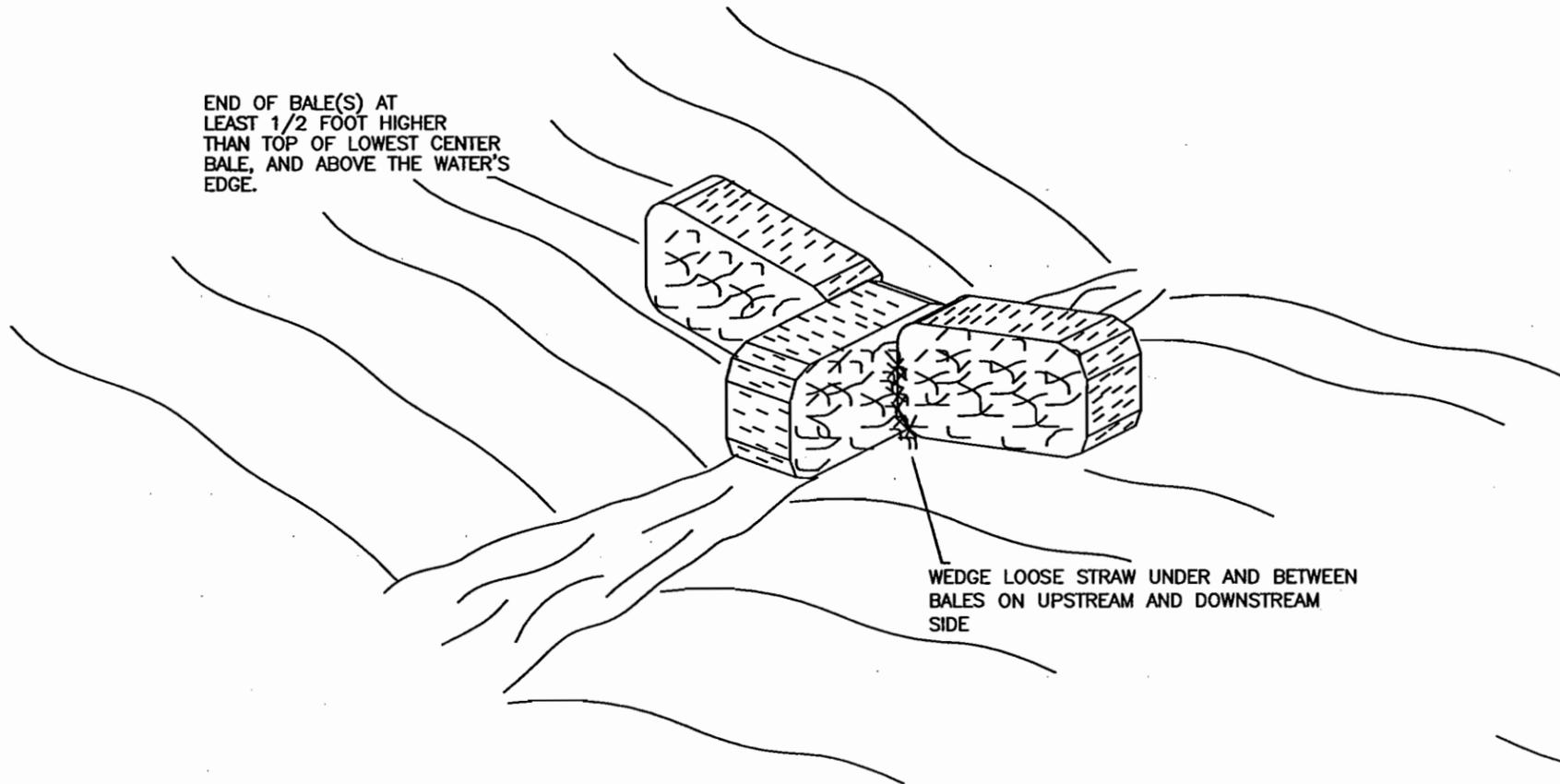


PROFILE



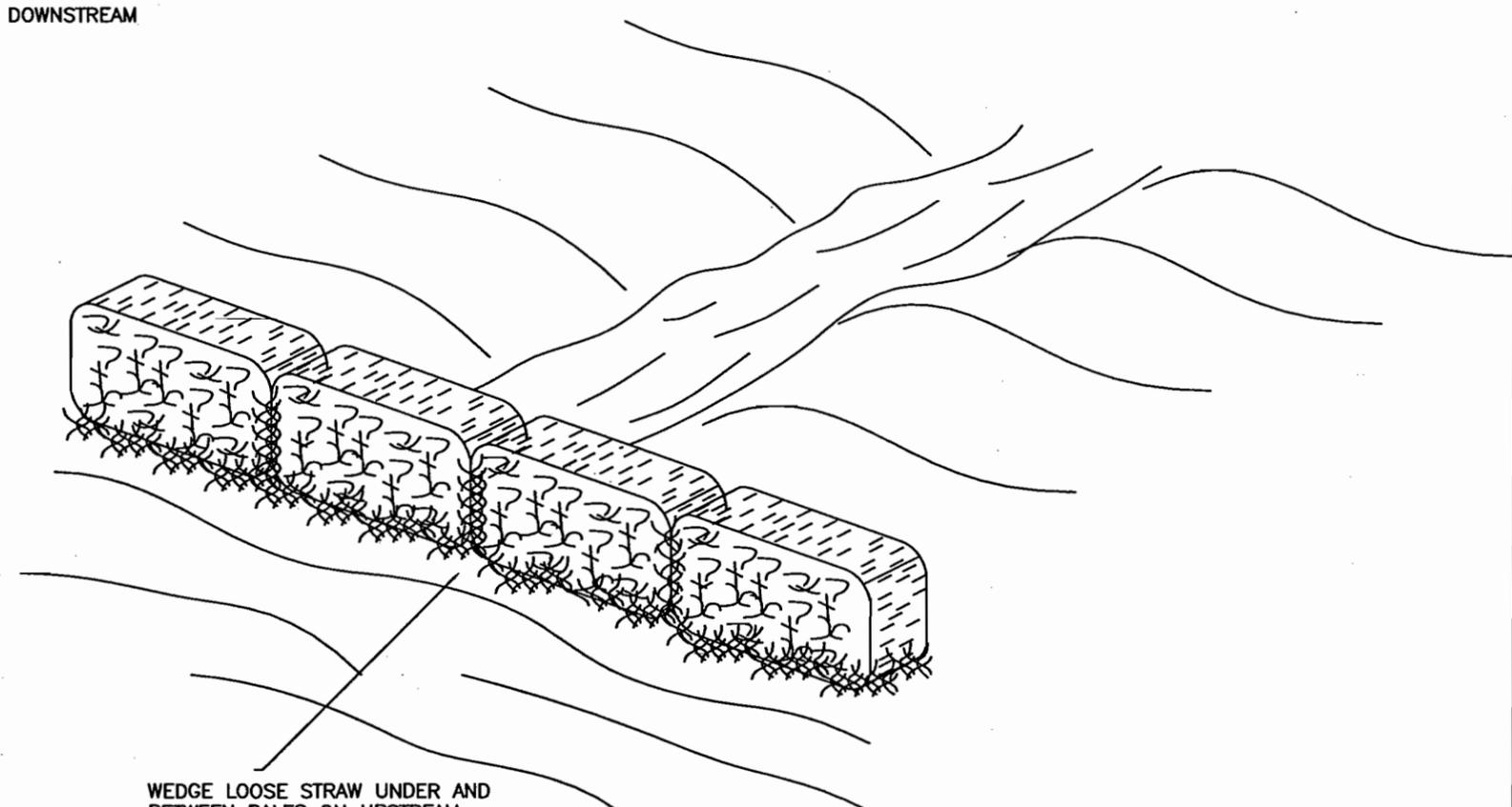
TYPE A
(FOR NARROW V BOTTOM DRAWS)

END OF BALE(S) AT
LEAST 1/2 FOOT HIGHER
THAN TOP OF LOWEST CENTER
BALE, AND ABOVE THE WATER'S
EDGE.



WEDGE LOOSE STRAW UNDER AND BETWEEN
BALES ON UPSTREAM AND DOWNSTREAM
SIDE

TYPE B
(FOR WIDE FLAT BOTTOM DRAWS)



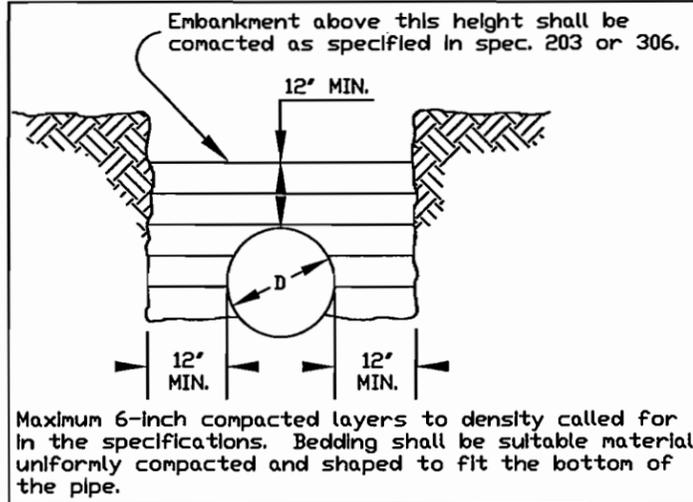
WEDGE LOOSE STRAW UNDER AND
BETWEEN BALES ON UPSTREAM
AND DOWNSTREAM SIDE

NOTE: THE NUMBER OF BALES SHOWN ABOVE ARE
FOR TYPICAL INSTALLATIONS. THE ACTUAL
NUMBER OF BALES REQUIRED MAY VARY.

STRAW BALE SEDIMENT BASINS
ITEM 204(09)

NOTES:

1. GRASS HAY OR STRAW SHALL BE OF APPROVED HERBACEOUS MOWINGS, CERTIFIED FREE OF NOXIOUS WEEDS OR OTHER OBJECTIONABLE MATERIAL.
2. STRAW BALE SEDIMENT BASINS SHALL BE CONSTRUCTED IN THE AREAS SHOWN ON THE DRAWINGS PRIOR TO PIONEER ROAD CONSTRUCTION ACTIVITY IN THE AREA.
3. THE BARRIER LENGTH SHALL EXTEND ACROSS THE STREAM SO THAT THE BOTTOM OF EACH END BALE IS AT LEAST ONE HALF FOOT HIGHER THAN THE TOP OF THE LOWEST CENTER BALE AND ABOVE THE WATER'S EDGE.
4. BALES SHALL BE STAKED OR WEIGHTED IN PLACE USING NATIVE MATERIALS. LOOSE STRAW OR HAY SHALL BE WEDGED UNDER AND BETWEEN THE BALES.
5. STRAW BALE SEDIMENT BASINS SHALL BE REGULARLY MAINTAINED DURING CONSTRUCTION OF ADJACENT ROAD SEGMENTS AND REPAIRED AS NECESSARY. DAMAGED OR WASHED OUT BALES WILL BE REPLACED.



METAL THICKNESS AND GAGE TABLES

Steel			Approx. Gage
Zinc Coated	Un-Coated	Aluminum	
0.064	0.0598	0.060	16
0.079	0.0747	0.075	14
0.109	0.1046	0.105	12
0.138	0.1345	0.135	10
0.168	0.1644	0.164	8
0.188	0.1838		7
0.218	0.2145		5
0.249	0.2451		3
0.280	0.2758		1

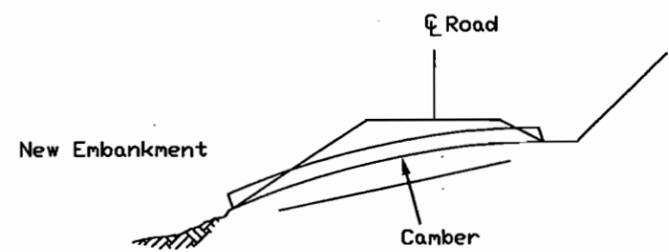
GENERAL NOTES:

TREATMENT OF DAMAGED SPALTER: The damaged or corroded ends of metal pipe to be extended shall be removed. If the damaged end is flame cut, the burned spalter on the galvanized pipe shall be wire brushed to clean metal and the area shall be painted with two coats of paint, high in zinc content, for repair of the galvanized surfaces.

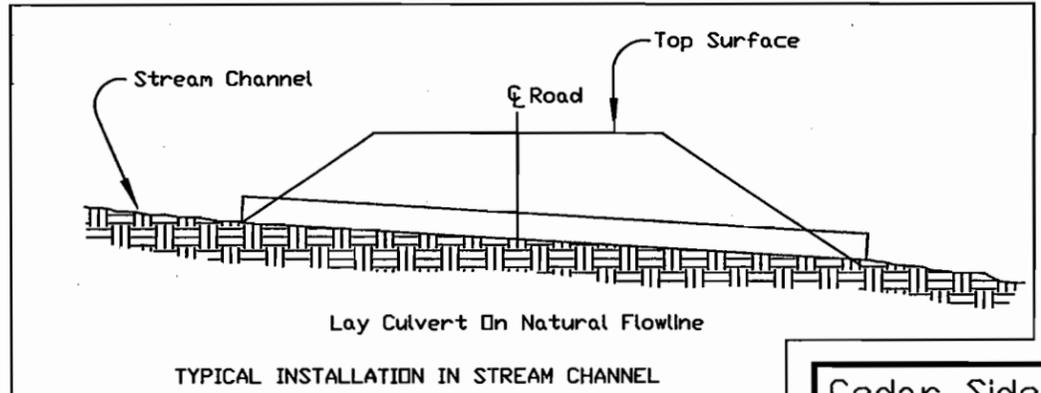
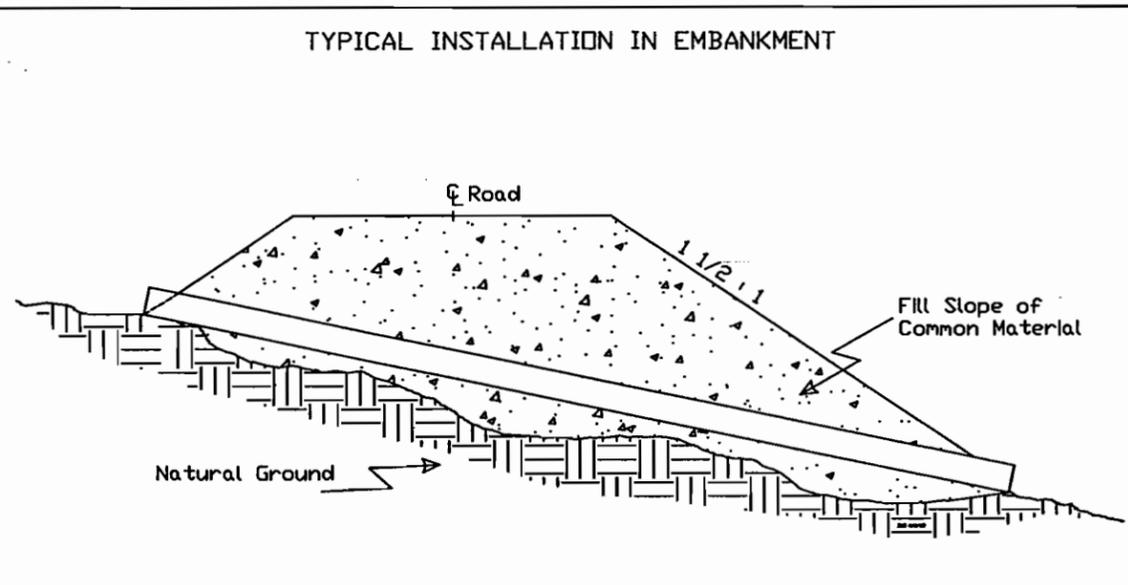
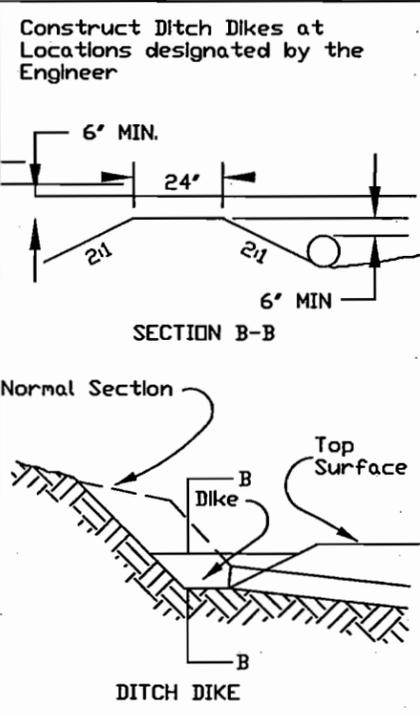
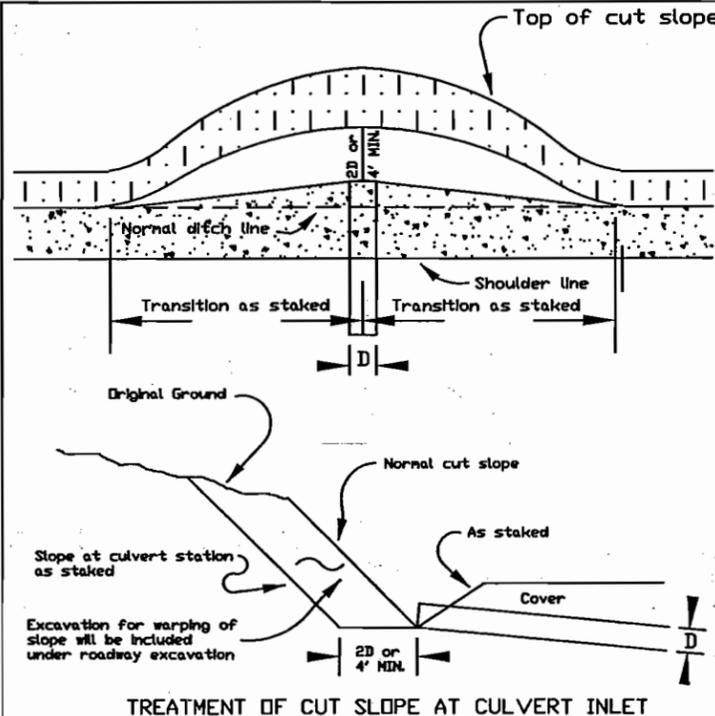
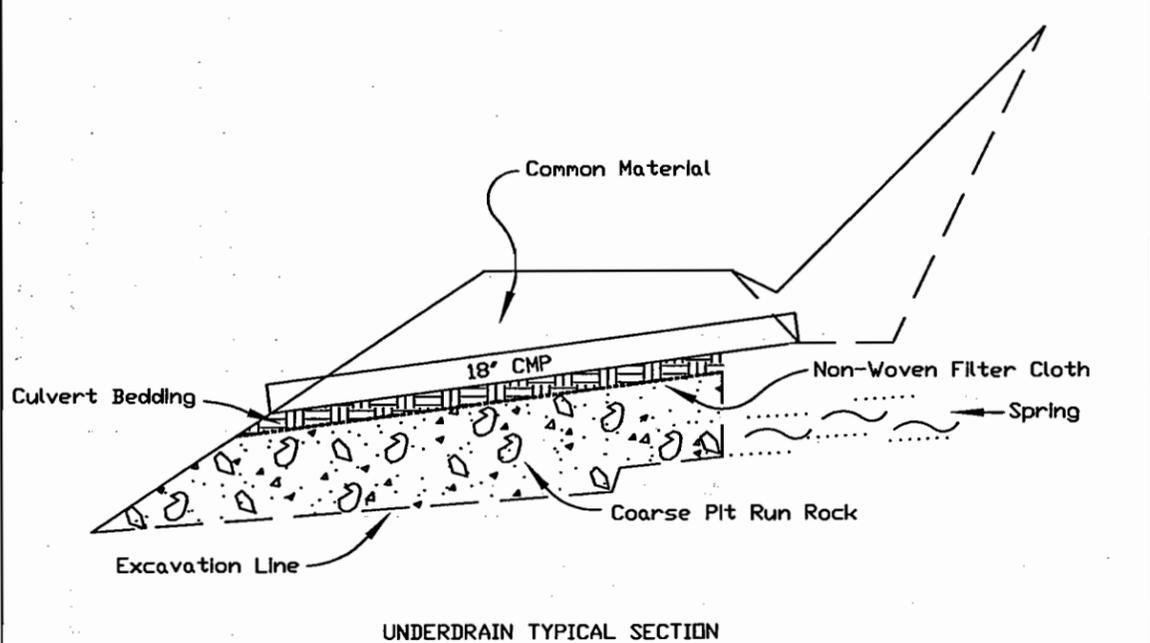
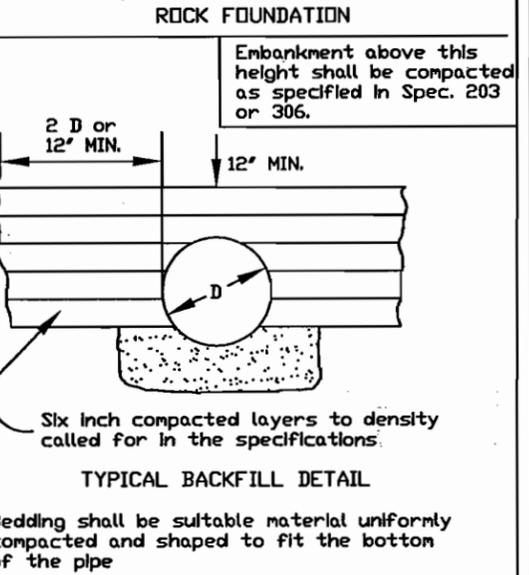
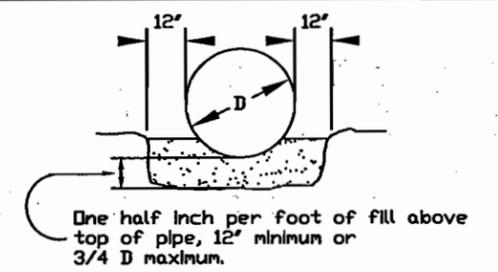
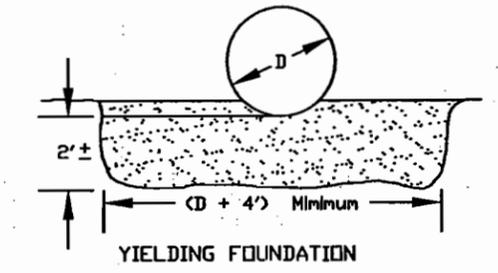
SETTLEMENT AND CAMBER: Pipes shall be cambered as necessary to compensate for any anticipated settlement in the foundation or bed. Camber shall be on a parabolic curve with no point along the invert being higher than the invert at the inlet.

EMBANKMENT AND FOUNDATION SOIL CONDITION
Existing Fills, Regardless of Foundation Soils

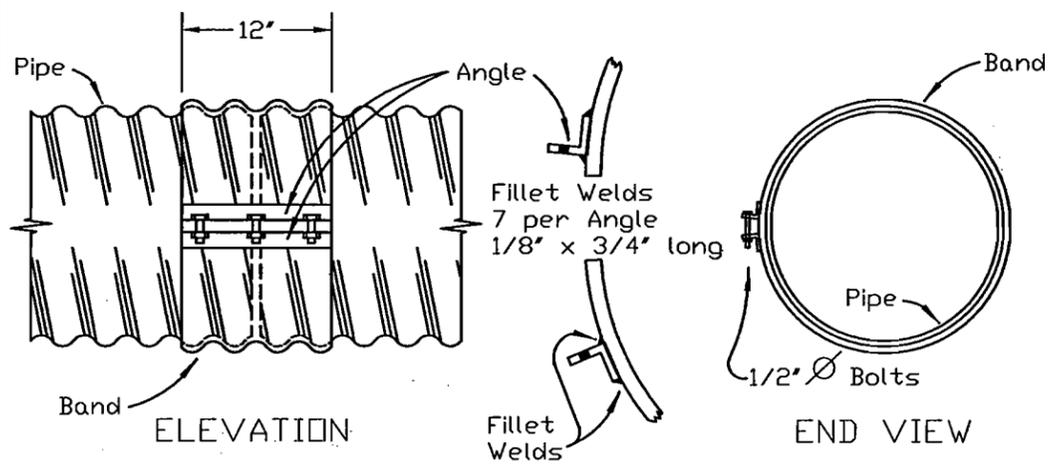
CAMBER
1% of pipe length, not to exceed 3/4 of pipe span.



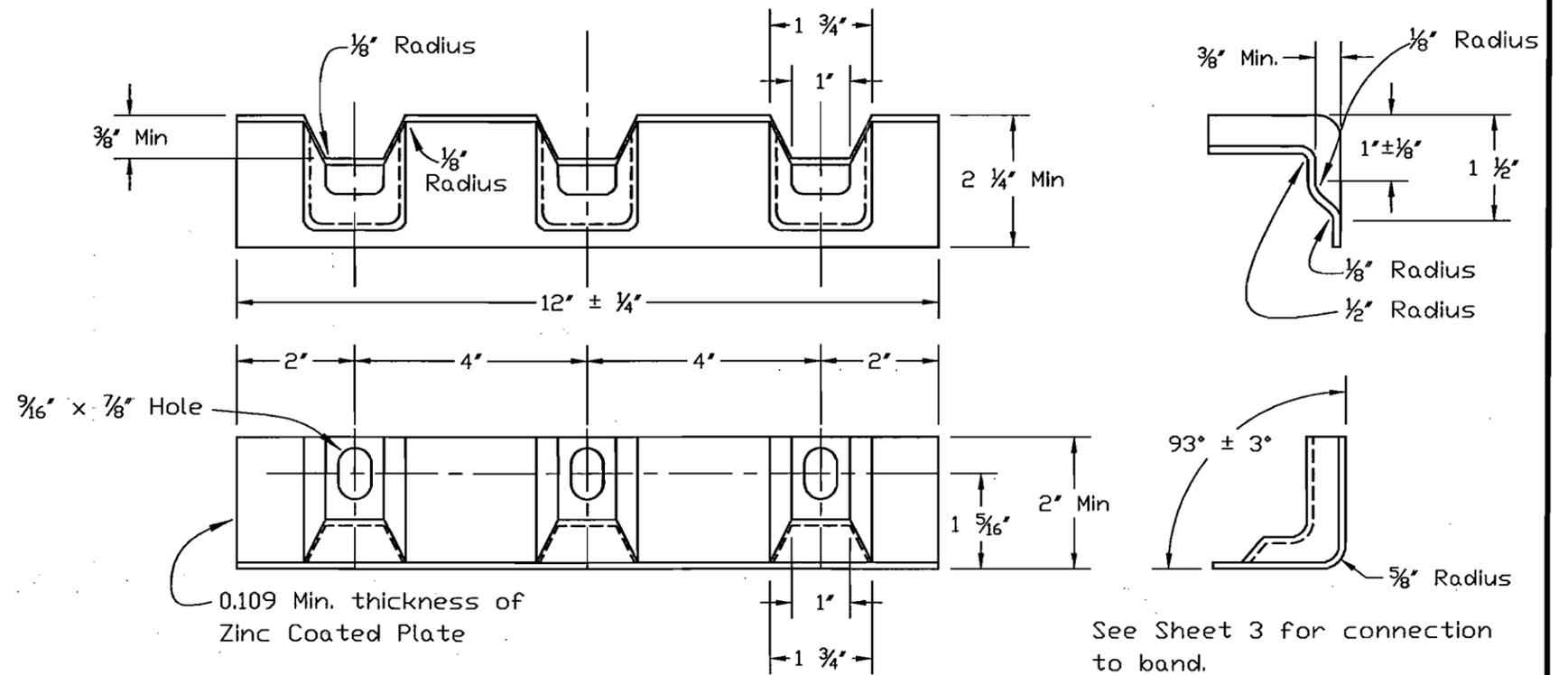
1% of pipe length, not to exceed 3/4 of pipe span or as determined by the engineer.



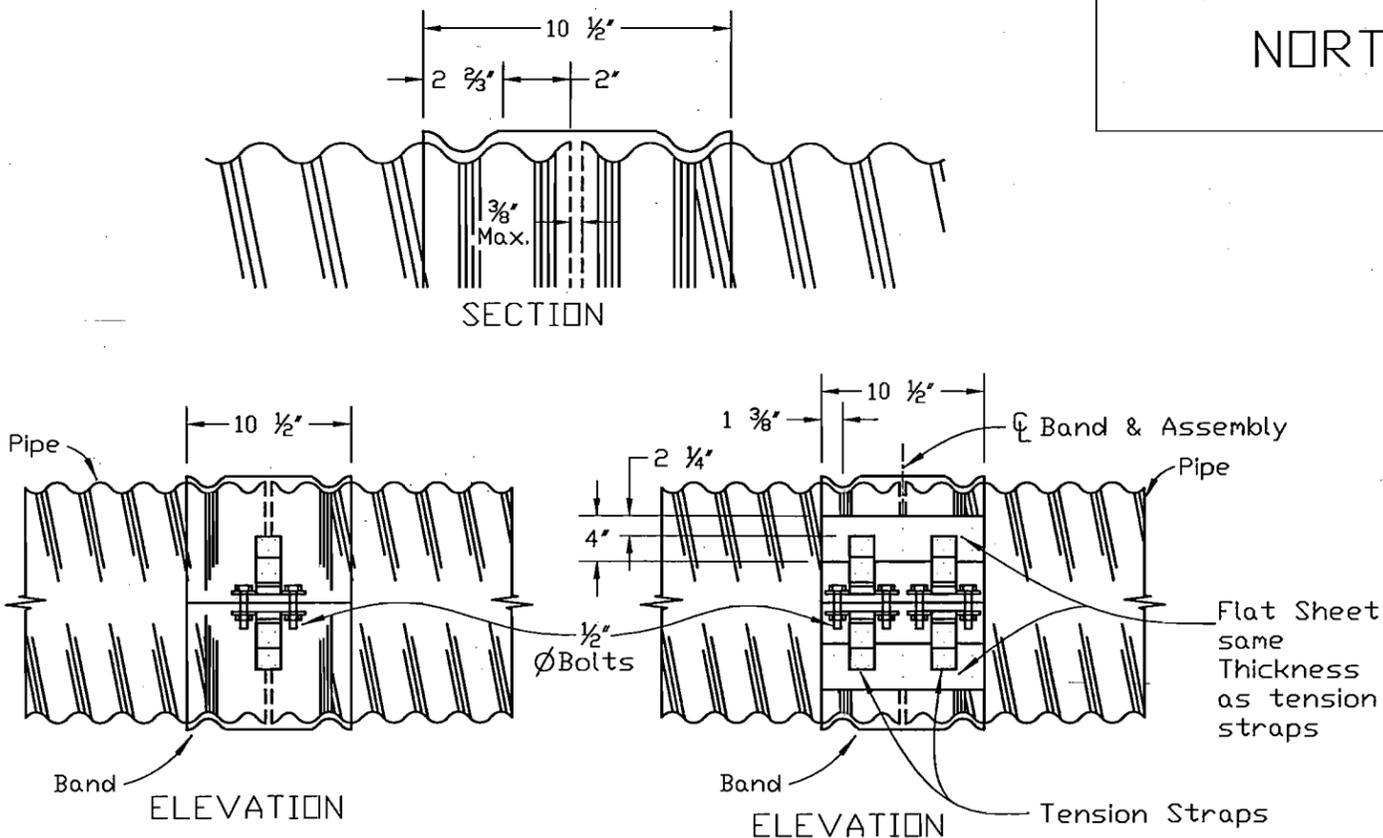
NO SCALE
CULVERT DETAILS



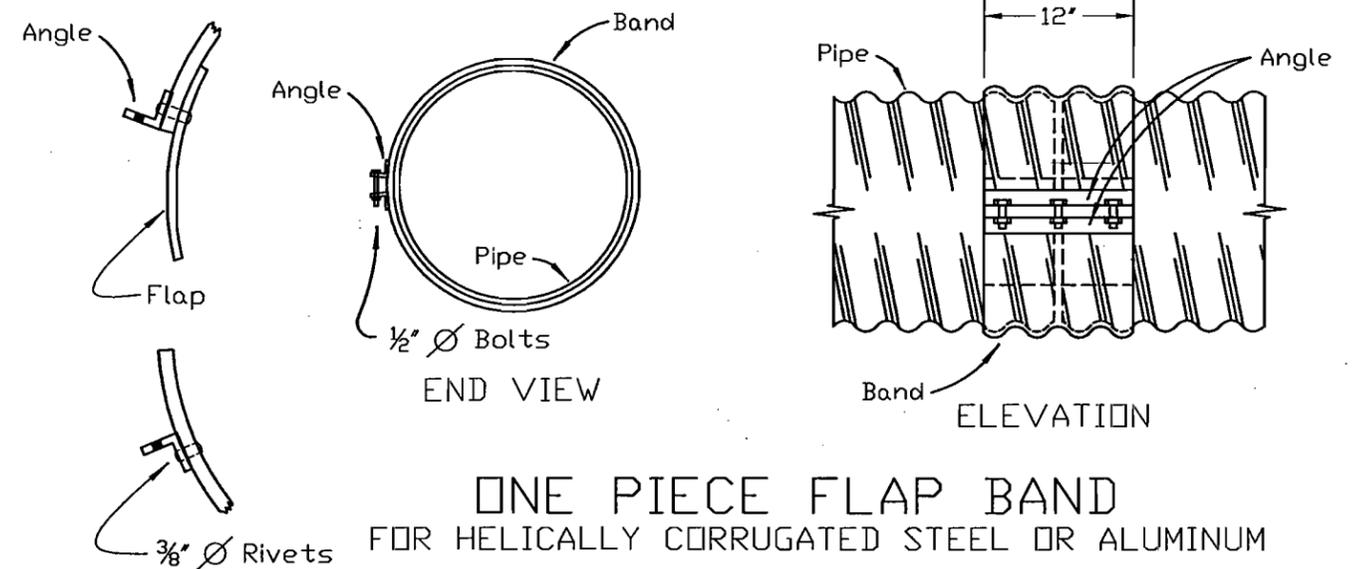
AMERICAN CULVERT BAND
FOR HELICALLY CORRUGATED STEEL PIPE



NORTHWEST CULVERT ANGLE ALTERNATIVE
FOR STEEL PIPE



HUGGER COUPLING BAND
FOR REFORMED END HELICALLY CORRUGATED
WELDED SEAM STEEL PIPE

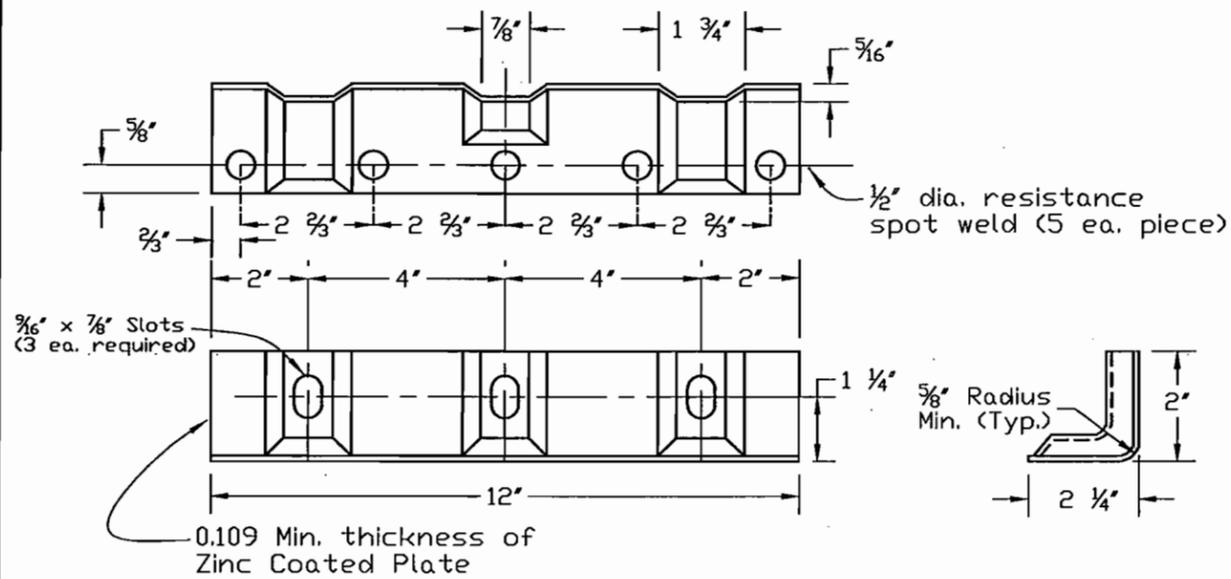


ONE PIECE FLAP BAND
FOR HELICALLY CORRUGATED STEEL OR ALUMINUM

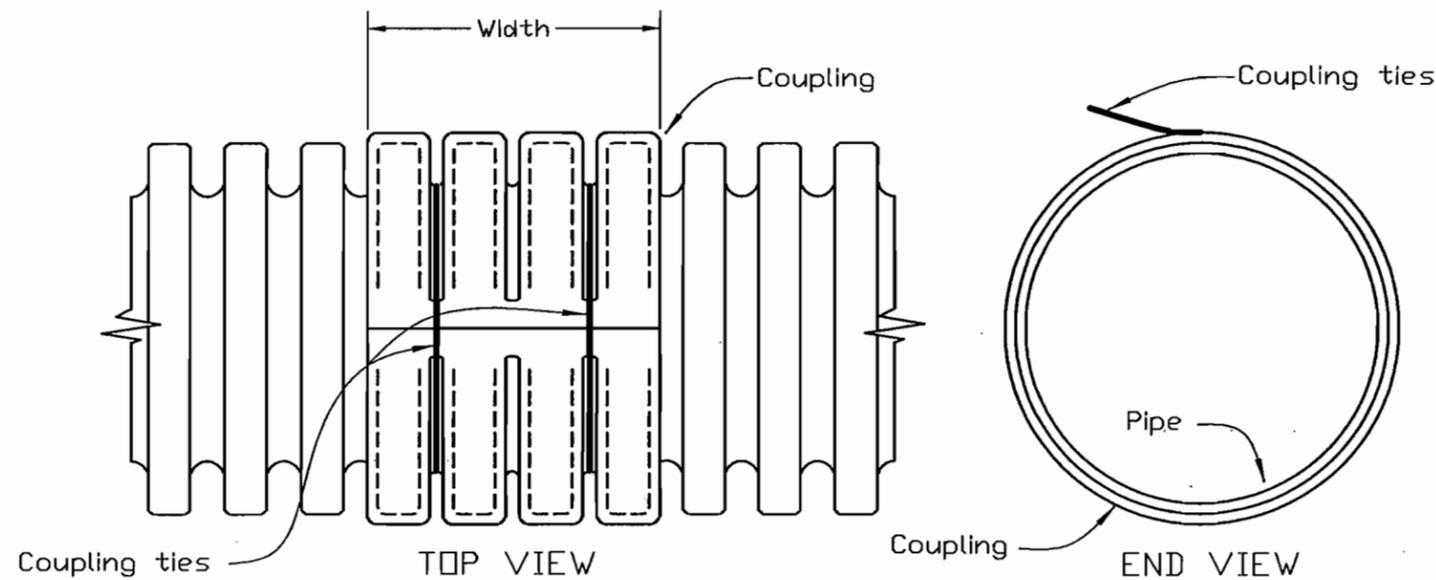
COUPLING BAND DETAILS FOR
CORRUGATED PIPE AND PIPE ARCH

Submitted CARL CAIN Date 6/7/89
Approved BILL HARPER Date 6/13/89

DRAWING NO. R1690 Sheet 1 of 3

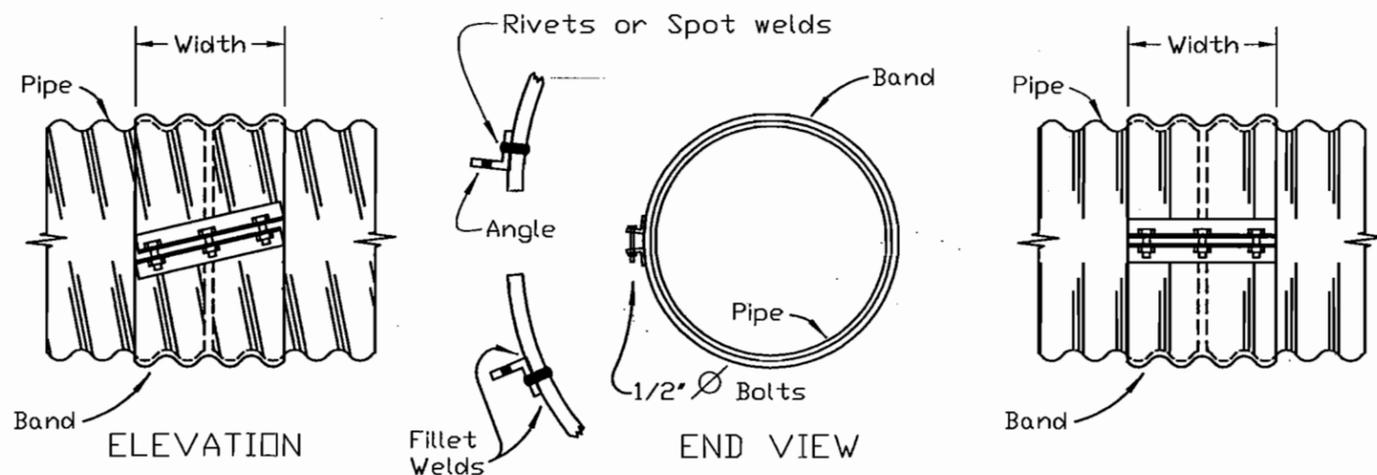


ALTERNATE FOR 2X2X3/16 ANGLE FOR STEEL PIPE



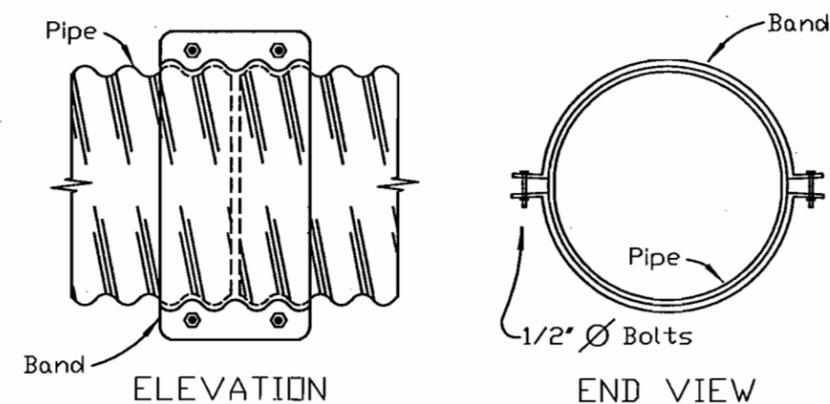
SPLIT COLLAR COUPLING FOR ANNULAR CORRUGATED POLYETHYLENE PIPE

- Notes:
1. Minimum width 4 corrugations, 2 on each culvert segment.
 2. The opening of the coupling shall be within 15° of the top of the culvert.



HELICAL COUPLING BAND FOR HELICALLY CORRUGATED STEEL OR ALUMINUM PIPE

ANNULAR COUPLING BAND FOR ANNULAR OR REFORMED END HELICALLY CORRUGATED STEEL OR ALUMINUM PIPE



TWO PIECE INTEGRAL FLANGE FOR HELICALLY CORRUGATED STEEL OR ALUMINUM PIPE

- Notes:
1. Use 2x12x0.150 thickness 5052-H141 aluminum plate washer under bolt head & nut on aluminum pipe flange.
 2. Use 2x12x0.125 thickness galvanized steel plate washer under bolt head & nut on steel pipe flange.

COUPLING BAND DETAILS FOR CORRUGATED PIPE AND PIPE ARCH

Submitted CARL CAIN Date 6/7/89
Approved BILL HARPER Date 6/13/89

DRAWING NO. R1690 Sheet 2 of 3

Cedar Side Boards T.S.

Sheet 33 of 35

GENERAL NOTES

1. Metal Coupling Bands
 - A. These coupling bands meet the strength requirements for special Joint Types under Non-erodible Soil Conditions, Table 2.23.3 of AASHTO's "Standard Specifications for Highway Bridges".
 - B. For pipe walls and bands, the Specified Thickness for steel is given. For aluminum, the Specified Thickness is that for steel less the allowance for the zinc coating which is 0.003 to 0.004 of an inch per AASHTO M-36, M-196 and M-197.
 - C. The minimum specified Thickness for bands is two Specified Thicknesses less than that for the pipe, but in no case thinner than 0.064 inches, (0.060 for aluminum).
 - D. For pipe arches, use the same width band as for round pipe of equal periphery.
 - E. A two-piece band is required for pipe greater than 42 inches in diameter.
 - F. Tension straps may be connected to bands of plates with either spot or fillet welds that develop minimum required strength of strap.
 - G. For helically corrugated coupling bands, the connection angles may be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the helix angle.
 - H. Use 1 1/4 inch center to center gauge line dimension on attached angle leg for rivets and spot welds.
 - I. The Two Piece Integral Flange coupling band shall not be used on pipe arches.
 - J. Culvert bands shall be made of the same metal as the culverts being joined.
2. Polyethylene (PE) Couplings

Testing standards for Corrugated Polyethylene (PE) Pipe couplings have not been established nor have couplings been tested for shear or bending moment. Therefore, until further information is available, PE couplings shall be used only where bending moment and shear requirements are minimal. Typical situations are:

 - A. Where the slope of the culvert will not be more than 5%.
 - B. Where the fill below the culvert is less than 2 feet.
 - C. In areas of firm soils. This excludes marshes unless the bedding is specially designed and approved by the engineer.
3. Other

Couplings other than those shown on this drawing may be used upon submission of testing data (see 1-A above) and approval by the Engineer.

						ANGLE - See Note 1-H			
COUPLING TYPE	CORRUGATION Inches	PIPE DIAMETER Inches	WIDTH Inches	SPECIFIED THICKNESS See Note 1-C		DIMENSION	BOLTS NO / DIAMETER	ANGLE TO BAND	
				Pipe Wall	Band			RIVETS	SPOT WELDS
Metal Pipe	2-2/3x1/2	Thru 36	12	0.064-0.138	0.064-0.079	2x2x3/16	3-1/2	3-3/8	5-1/2
		42-60	12	0.064-0.079	0.064	2x2x3/16	3-1/2	3-3/8	5-1/2
Annular and Helical	(Steel or Aluminum)	42-60	12	0.064-0.168	0.064-0.109	2x2x5/16	3-1/2	5-3/8	
		66-84	24	0.109-0.168	0.064-0.109	2x2x5/16	5-1/2	7-3/8	
	3x1 and 5x1 (Steel Only)	36-60	14	0.064-0.079	0.064	2x2x3/16	3-1/2	3-3/8	5-1/2
		42-60	14	0.109	0.064	2x2x5/16	3-1/2	5-3/8	
		66-120	25	0.064-0.109	0.064	2x2x5/16	5-1/2	9-3/8	
One Piece Flap Band & Two Piece Integral Flange	2-2/3x1/2 (Steel or Aluminum) see Note 1-I	18-24	12	0.064-0.079	0.064		3-1/2	4-3/8*	* Flap Band Only
								WELDS ANGLE TO BAND	
American Culvert Band	2-2/3x1/2 (Steel Only)	Thru 24	12	0.064-0.109	0.064-0.079	2x2x0.183	3-1/2	7-1/8x3/4 Long Fillet	
		30-36	12	0.064-0.109	0.064	2x2x0.183	3-1/2		
		42-48	12	0.064-0.079	0.064	2x2x0.183	3-1/2		
Northwest Culvert Alternative	2-2/3x1/2 (Steel Only)	Thru 84	12	0.064-0.079	0.064-0.109			5-3/16x3/4 Long Fillet	
		Thru 54	12	0.109	0.064-0.109				
		Thru 42	12	0.138	0.064-0.109				
		Thru 84	12	0.064-0.168	0.064-0.109			5-1/2 Spot	
						BAR AND STRAP			
						NUMBER/THICKNESS	BOLT DIAMETER	BAR DIAMETER	BAR YIELD STRENGTH P.S.I.
Hugger	2-2/3x1/2 (Steel Only)	Thru 48	10-1/2	0.064-0.109	0.064-0.109	One 0.079	1/2	7/8	32,000
		36-48	10-1/2	0.138-0.168	0.079-0.109	One 0.109	1/2	7/8	45,000
		54-60	10-1/2	0.079-0.168	0.064-0.109	Two 0.079	1/2	7/8	32,000
	3x1 (Steel Only)	66-84	10-1/2	0.109-0.168	0.109	Two 0.109	1/2	7/8	45,000
		36-66	10-1/2	0.064-0.109	0.064	Two 0.079	1/2	7/8	32,000
		72-84	10-1/2	0.109	0.079	Two 0.079	1/2	7/8	32,000
		61-120	10-1/2	0.109	0.109	Two 0.109	1/2	7/8	45,000
PE Pipe Split Collar		Thru 24	See Drawing	per AASHTO M-294	per AASHTO M-294				

U.S. FOREST SERVICE
 COUPLING BAND DETAILS FOR
 CORRUGATED PIPE AND PIPE ARCH
 Submitted CARL CAIN Date 6/7/89
 Approved BILL HARPER Date 6/13/89
 DRAWING NO. R1690 Sheet 3 of 3

Cedar Side Boards T.S. Sheet 34 of 35

C2.11# - TIMBER SUBJECT TO AGREEMENT. (2/71) In addition, there is within Sale Area an unestimated quantity of timber subject to agreement in units 15H, 16H, and 17H that shall be Included Timber upon written agreement.

C2.2# - UTILIZATION AND REMOVAL OF INCLUDED PRODUCTS (4/03) Unless otherwise agreed in writing, or as specified in C2.211# - Optional Removal of Non-sawtimber Products, Purchaser is required to pay for and remove the following products described in A2 of the contract:

Sawtimber is the boles of trees meeting Sawtimber Product specifications as listed in A2 of the contract.

Non-sawtimber is the boles of trees meeting Non-sawtimber Product specifications as listed in A2 of the contract, but that do not meet the minimum piece specifications for Sawtimber Products. Non-sawtimber removal is only required in All Cutting Units. Only the volume of non-sawtimber in the cutting units listed above is included in the estimated volume shown in A2. If the purchaser and the Forest Service agree to remove non-sawtimber from cutting units other than those listed above this non-sawtimber must be measured and paid for at the rates shown in A4.

C2.301# - DESIGNATION OF RESERVE TREES (5/04) Notwithstanding the designations for cutting in other provisions of this contract, within Cutting Units 6 live or dead wildlife reserve trees or groups of reserve trees within such cutting units or clearings shall be left uncut. Such reserve trees are identified by an Orange "X" approximately 5 feet above ground level, or higher if brush conditions warrant, on both the up and downhill side of the tree. In addition, an Orange mark shall be painted on the "stump" on the downhill side as close to the ground line as practical. and shall be protected in accordance with C6.320#.

Within ALL CUTTING UNITS live or dead White Pine Plus reserve trees or groups of reserve trees within such cutting units or clearings shall be left uncut. These trees are identified by various methods which include: an ORANGE "diamond shaped" aluminum tag and an Orange painted band around the stem or a small aluminum rectangular tag approximately 1 inch x 2-4 inch. Prior to any logging activity the Purchaser should meet with the Sale Administrator to determine the location of White Pine Plus trees.

Upon agreement, live or dead trees designated to be left standing may be felled when necessary for safety under the State Safety Code, and other live or dead trees may be designated in their place.

C2.303# - DEAD TREES. (10/04) Notwithstanding the designations for cutting in other provisions of this contract, all dead standing trees over 15 feet in height and 10 inch diameter at breast height and all dead standing trees meeting Utilization Standards stated in A2 will be left standing in All Cutting Units, including Timber Subject to Agreement under C2.11#.

Upon agreement by the Forest Service, dead trees may be felled when necessary for safety under the State Safety Code. Unless otherwise agreed in writing, all dead trees which are required to be left standing and are felled for safety reasons shall be left on site.

C2.358# - INDIVIDUAL TREES (LEAVE TREE MARKING). (10/04) In cutting unit 18 , all trees (live and dead) meeting minimum tree diameter specifications of A2 are designated for cutting except trees reserved from cutting. Trees reserved from cutting have been marked with Orange paint with a horizontal line on both the up and downhill side of the tree with an accompanying Orange painted stump mark as on the downhill side of the tree. The boundaries of areas where leave trees are marked are identified by 3 vertical stripes of orange paint with the center stripe facing towards the area to be treated with an accompanying Orange mark painted on the downhill side of the "stump" as close to the ground line as practical. Trees used for boundary designation are not to be cut. All

hardwood trees are not to be cut. The northern portion of Unit 18 eastern boundary is designated by Rd 3335. See Sale Area Map for exact location.

C2.359# - INDIVIDUAL TREES (CUT TREE MARKING). (10/04) In Cutting Units 2,3,4,7,15,16,17, and Timber Subject to Agreement under C2.11#, (Units 15H, 16H and 17H) individual trees to be cut have been marked with a Blue painted horizontal line on both the up and downhill side of the tree with an accompanying Blue mark painted on the downhill side of the “stump” as close to the ground line as practical.

The boundaries of areas where individual trees are marked to be cut are designated by:

Units 3,4,7,15,16, and 17 and Timber Subject to Agreement under C2.11# (15H, 16H and 17H), the boundaries of areas where individual trees are marked to be cut are designated by a BLUE Tyvek “BOUNDARY PARTIAL CUT” boundary tag which is placed roughly at “eye-height” facing into the area to be treated. Tagged trees have an accompanying ORANGE mark painted on the downhill side of the “stump” as close to the ground line as practical. In addition to the “Tyvek” tags, both existing and new construction roads will be designated boundaries. **The boundary tags in the units state Cedar Creek instead of Cedar Side Boards but they are one and the same.** See below descriptions and Sale Area Map:

Unit 7: The south eastern boundary is designated by Road 504E (New Construction).

Unit 16 and Timber Subject to Agreement under C2.11# (16H): The majority of the boundary is designated by a Blue Tyvek “BOUNDARY PARTIAL CUT” boundary tag which is placed roughly at “eye-height” facing into the area to be treated. Tagged trees have an accompanying ORANGE PAINTED “stump” mark located on the down hill side of the tree.

There is a “common” boundary starting at the head of a draw located just east of the northern tip of Unit 16, heading south by southwest to the draw located to the west. This “common boundary” is designated by 4 vertical stripes of orange paint. An ORANGE painted stump mark is located on the down hill side of the tree as close to the ground line as practical. An occasional tree is also marked with the unit number “16” which faces into the unit to be treated.

The southern boundary of Unit 16 is designated by Road 504E. See Sale Area Map for exact location.

Unit 17 and Timber Subject to Agreement under C2.11# (17H): The eastern, south eastern & southern boundary of Unit 17 is designated by Road 504F, Road 504A, 504E. See Sale Area Map for exact location.

Unit 2: The boundaries of areas where individual trees are marked to be cut are designated by 3 vertical stripes of Orange paint with the center stripe facing towards the area to be treated with an accompanying Orange mark painted on the downhill side of the “stump” as close to the ground line as practical. The western boundary of Unit 2 is designated by Road 504G(existing).

Note: There are minor amounts of cut trees which were marked in error. These trees were subsequently marked with BLACK paint over the BLUE paint on both the stem and stump mark. These BLACK marked trees are designated for LEAVE.

Trees used for boundary designation are not to be cut.

C2.38# - SPECIES DESIGNATION. (2/02) Within the following cutting units shown below, listed species are designated for cutting when they meet (a) utilization standards and (b) are smaller than the stump diameter listed below and shown on the Sale Area Map:

Unit	Designated Species	Maximum Stump Diameter – (Inches)
5	LP*	N/A

6	<u>C</u> LP,GF,DF,H,S,AF	<u>19.9 inches</u> N/A
---	-----------------------------	---------------------------

*Along with designated species, individual trees to be cut have been marked with a Blue painted horizontal line on both the up and downhill side of the tree with an accompanying Blue mark painted on the downhill side of the “stump” as close to the ground line as practical.

Stump diameter will be measured at natural ground level on the uphill side of the tree. A minimum stump height of 4 inches above ground level on the uphill side shall be left in the units listed above.

In addition, any trees within the cutting unit boundary that are windthrown prior to Purchaser's logging in the immediate vicinity which meet Utilization Standards in amounts less than specified in B2.133 are designated for cutting.

Trees of the species listed above that are designated to be left standing are marked with an Orange painted “X” on 2 sides of the tree as well as an accompanying stump mark on the downhill side of the tree.

In addition to those species listed above, trees marked N/A are also designated for cutting.

Unit 6: The boundaries are marked 3 vertical stripes of orange paint with the center stripe facing towards the area to be treated with an accompanying Orange mark painted on the downhill side of the “stump” as close to the ground line as practical. The northern and western boundary of Unit 6 is designated by an old cat line adjacent to the existing plantation. See Sale area Map for exact location.

Unit 5: Portions of the southern boundary are designated by Road 3321A (Existing). The boundary is designated with Blue Tyvek “Boundary Partial Cut” boundary tag which is placed roughly at “eye-height” facing into the area to be treated. Tagged trees have an accompanying Orange painted “stump” mark located on the downhill side of the tree.

Trees used for boundary designation are not to be cut.

Note: There are minor amounts of cut trees which were marked in error. These trees were subsequently marked with Black paint over the Blue paint on both the stem and stump mark. These Black marked trees are designated for Leave.

Upon agreement with Forest Service, dead trees designated to be left standing may be felled when necessary for safety under the State Safety Code and other dead trees designated in their place.

C4.211 – DOWNPAYMENT. (6/07) The downpayment amount shown in A18 may not be applied toward any other payment required under the provisions of this contract, except damages determined pursuant to B9.4, transferred to other timber sales, or refunded until (a) stumpage value representing 25 percent of the total bid value of the timber sale has been charged and paid for, or (b) the estimated value of the unscaled timber is equal to or less than the amount of the downpayment, or (c) if 36 CFR 223.49(e) is applicable, the estimated value of the unscaled timber is equal to or less than the amount of the downpayment.

If Forest Service makes a determination that this contract should not have been included under increases downpayment requirements (36CFR 223.49(e)), the downpayment shall be revised and applies in accordance with 36 CFR 223.49(f)

C5.113# - USE AGREEMENT BETWEEN FOREST SERVICE AND OWNER. (7/85) Purchaser is authorized to use Road 3321E to the terms and conditions of an Agreement between Forest Service and Potlatch Corporation. A copy of said, Merry Creek Cost Share Area Supplement No. 9 & 10, between the Forest Service and

PERMIT

Permission is hereby granted to the UNITED STATES OF AMERICA, acting by and through the Forest Service, USDA, hereinafter called the permittee, from Potlatch Corporation, to use, subject to the conditions set out below, the following described lands:

T. 43 N., R. 2 E.
Sec. 30, SW1/4 SW1/4, Boise Meridian

Road 3321E

This permit covers a right-of-way approximately 100 feet in length and containing approximately .15 acres and is issued for the purpose of constructing, reconstructing, maintaining, and using a road for the protection, administration, management and utilization of lands and the resources thereof now or hereafter owned or controlled by the permittee.

1. This permit is subject to all valid rights existing on this date.
2. The permittee shall cut only such timber as necessary in clearing for road construction, reconstruction, and maintenance. Timber so cut shall, unless otherwise agreed to, be cut into logs of lengths specified by Potlatch Corporation and decked along the road for disposal by Potlatch Corporation.
3. The permittee shall do everything reasonably within his power to prevent forest fires and will not allow disposal of material by burning in open fires during the closed season established by law without a written permit from the proper fire protection agency.
4. The permittee shall fully repair all damage, other than ordinary wear and tear, to roads and trails caused by the permittee in exercise of the privileges granted by this permit.
5. This permit shall terminate December 31, 2012, or earlier when requested by the permittee; provided that the permit may be terminated or suspended upon breach of any of the conditions herein.
6. The right-of-way covered by this permit shall be thirty-three (33) feet on each side of the centerline as shown on the attached plat with such additional width as required for accommodation and protection of cuts and fills.
7. In consideration for this use the permittee has granted reciprocal rights-of-way to Potlatch Corporation.

8. Construction of the road shall be in accordance with the specifications set forth in Exhibit A attached hereto.
9. In the event the road constructed on the right-of-way herein is included in a subsequent cooperative agreement for joint construction, the Potlatch Corporation shall treat the holder's construction cost as incurred under the agreement. In this event, Potlatch Corporation shall replace this permit with an easement.
10. The permittee shall provide maintenance so that at the termination of this permit the road will be in a condition equal to that normally prevailing on roads of like standard, and unless otherwise agreed to, lead-off drainage and water barriers to prevent erosion will be constructed on the road as directed by Potlatch Corporation.
11. Use of roads constructed under authority of this permit shall be subject to control by the permittee except that they shall at all times be open to use by Potlatch Corporation employees on official business.

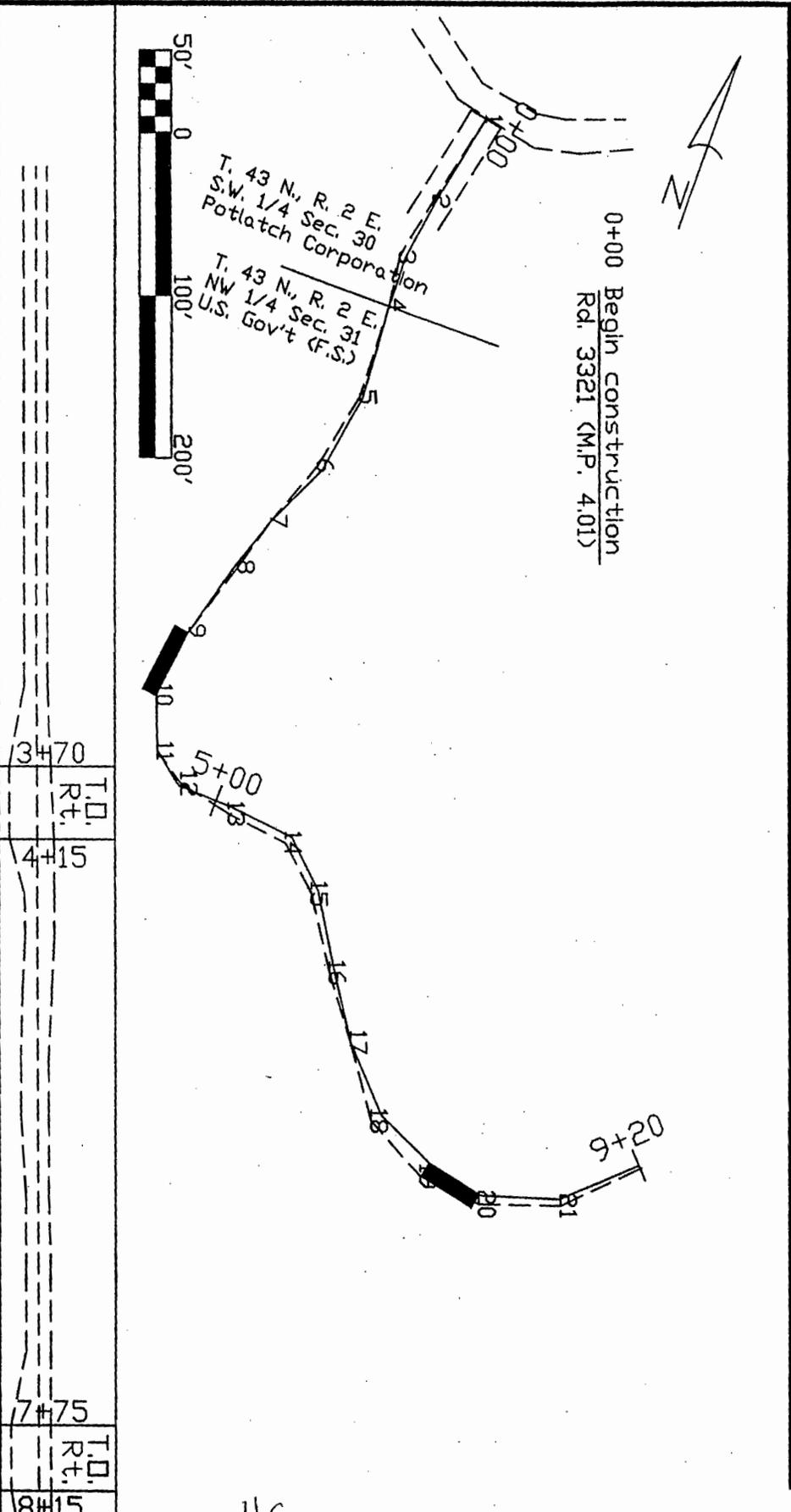
The exercise of any of the privileges granted hereby constitutes acceptance of all conditions of this permit.

8/30/07 Kevin M. McHail St. Joe District Forester
Date (Signature of Issuing Officer) Title

This permit is accepted subject to the conditions herein set forth.

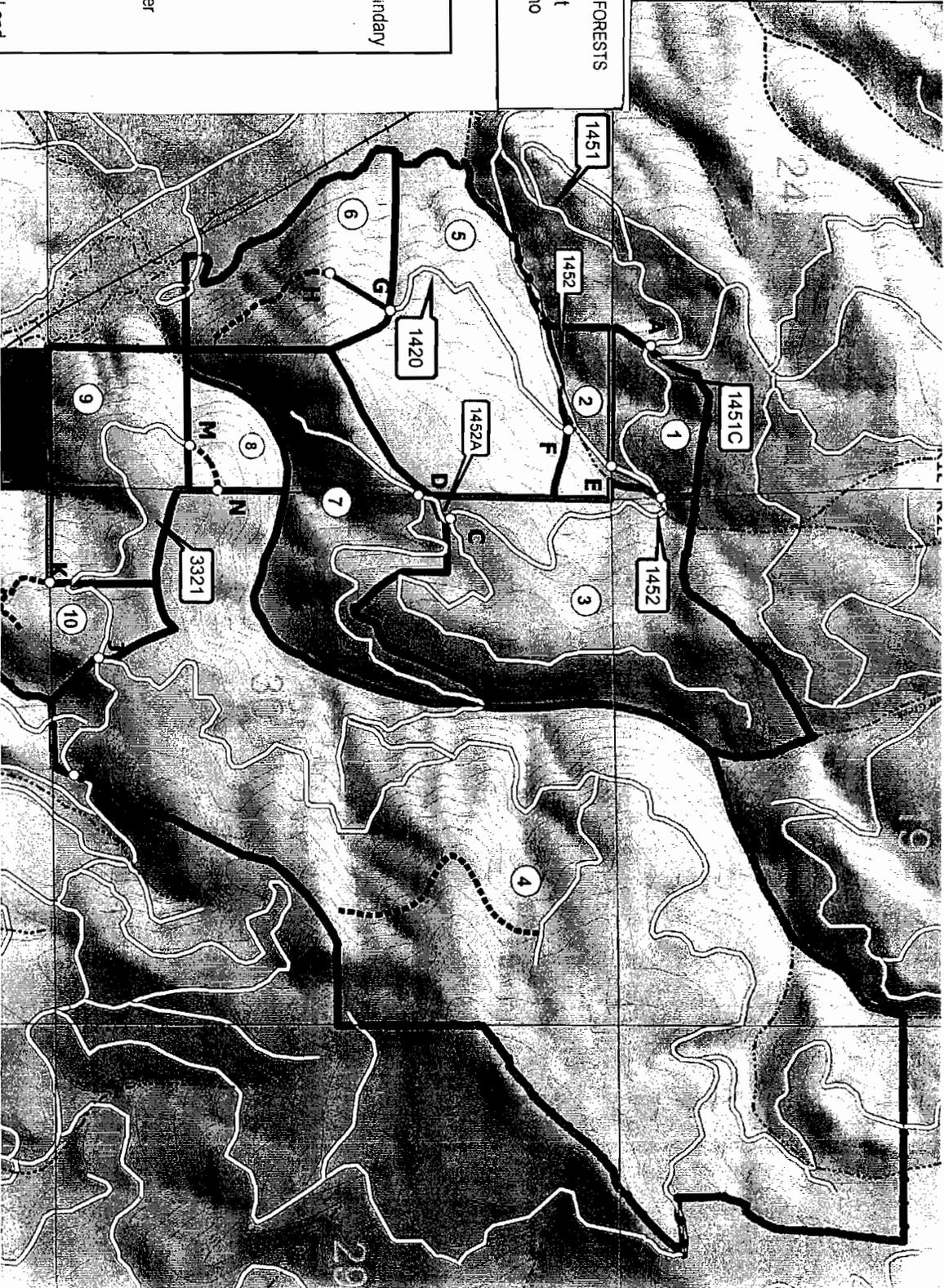
8-9-07 Bruce Skalski
Date for RANOTTA K. MCNAIR
Forest Supervisor
Idaho Panhandle National Forests
Northern Region

3210	3220									
+00 Begin construction										



Road Use Permit Map

IDAHO PANHANDLE NATIONAL FORESTS
 St. Joe Ranger District
 Shoshone County, Idaho
 Boise Meridian



Legend

Supplement Area Boundary

Existing Roads

Reconstruction

New Construction

- B Road Segment

1420 Road Number

Tributary Area

① Tributary Area Number

Ownership

Forest Service

State Land

Potlatch Corporation Land

Bennett Lumber Land

Private/Other Land

Railroad

Potlatch Corporation is available for review in the office of the District Ranger, St. Maries and the Forest Supervisor Coeur d'Alene, Idaho .

C5.12# – USE OF ROADS BY PURCHASER. (6/99) Purchaser’s use of existing roads identified on Sale Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

<u>Code</u>	<u>Use Limitations</u>
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by Forest Service to inform the public of use restrictions. Purchaser’s use of roads coded R, A, or W shall be in accordance with the following restrictions:

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
	Cedar St. (Town of Clarkia)	Poplar	Rd 3321	XXX	Hauling Prohibited

C5.123# - ROAD USE, LIABILITY INSURANCE. (3/90) Purchaser shall have in force public liability insurance covering: (a) property damage in the amount of \$500,000 and (b) damage to persons in the minimum amount of \$500,000 in the event of death or injury to more than one person. In the event of combined single limit insurance, the total minimum coverage shall be in the amount of \$1,000,000 providing for at least \$500,000 in the event of property damage and \$500,000 in the event of death or injury. The coverage shall extend to commercial hauling activities on roads listed in this provision. The Purchaser shall send an authenticated copy of its insurance policy or provide the enclosed CERTIFICATE OF INSURANCE in lieu of the actual policy to the Forest Service prior to hauling. The Purchaser's policy will not be cancelled or its provisions changed or deleted before 30 days' written notice to the Contracting Officer, Idaho Panhandle National Forest by the insurance company. Purchasers commercial hauling shall include hauling by Purchaser, Purchaser's employees, agents, contractors, subcontractors, their employees or agent on roads listed in this provision.

Failure to provide or maintain the liability insurance requirement will result in breach of contract under provision B9.3 Breach.

The following is a list of roads requiring liability insurance for commercial hauling:

Road Number	Road Name	Termini
301	Fishhook	School House to Rd 3321
3321	Christmas	Property Line (Unit 3) to Rd 301
3321A	Christmas Time	Rd 3321 to FS Property Line

3321B	Christmas Carole	Rd 3321 to FS Property Line
3321C	Christmas Jingle	Rd 3321 to FS Property Line

CERTIFICATE OF INSURANCE
 _____ Timber Sale Contract
 _____ (Contract Number)

This is to certify to the [7/]
 FOREST SERVICE

that the INSUROR [8/]

has issued a policy of insurance on behalf of the PURCHASER
 [9/]

and that, subject to the provisions of said policy of insurance, said policy of insurance will continue in full force and effect for the period ending XXXXX;

and that said policy of insurance provides coverage which complies with the insurance requirements of the TIMBER SALE CONTRACT issued to the PURCHASER on XXXXX, said requirements included in special provision C5.123#- Road Use, Liability Insurance (3/90) of said TIMBER SALE CONTRACT.

I hereby accept full responsibility for the consequences of such errors or omissions of information as may be contained herein.

SIGNED
 (PURCHASER) (DATE)

SIGNED
 (Authorized Representative (DATE)
 of INSUROR)

C5.13# – ROAD COMPLETION DATE. (4/04) Construction of Specified Roads shall be completed no later than October 15, 2010; except for earlier construction completion dates for roads listed below:

Road Number	Road Name	Station		Completion Date
		From	To	
N/A				

Completion date is binding on the party that constructs road, whether Purchaser or Forest Service. Contracting Officer shall modify the completion date in writing to conform to the approved Plan of Operations under B6.311 at the request of Purchaser.

When Purchaser elects Forest Service construction of Specified Roads shown in sale advertisement, Forest Service may adjust construction completion date when road construction is delayed or interrupted for causes that qualify for an adjustment of the completion date of Forest Service’s road construction contract. When qualifying delays or interruptions of road construction occur, Forest Service shall evaluate such occurrences and document any findings. The current status of any adjustment shall be available to Purchaser on request. Promptly after the end of Normal Operating Season in which qualifying days occur, Forest Service shall give Purchaser written notice of (a) number of qualifying days claimed, and (b) new construction completion dates. After all road construction is complete, Forest Service shall grant Contract Term Adjustment. Such adjustment shall be limited to road completion date delays that occurred during Normal Operating Season.

If Forest Service is responsible for road construction and the actual date of road completion is 1 year or more after the completion date stated above, Purchaser may request a rate redetermination under B3.3 for remaining volume. Such request must be made within 30 days of notification that road construction has been completed. Upon receipt of such request, Forest Service shall redetermine rates using standard methods in effect on the completion date of road construction. Rates to be established shall apply to all timber removed from Sale Area after the effective date of the rate redetermination.

Forest Service shall in no way be responsible for any delay or damage caused by road contractor in performing the road construction, except such delay as may be the fault or negligence of Forest Service.

When Purchaser constructs Specified Roads and requests Contract Term Adjustment, completion dates shall be adjusted by number of days that qualify for such adjustment, provided such qualifying days occur before specified construction completion date. When Purchaser desires to construct an alternate facility under B5.26, Forest Service and Purchaser shall agree, in writing, on a construction completion date for alternate facility. Contract Term Adjustment as noted above will apply. Completion date shall be adjusted where a Design Change or physical changes necessitate a modification of Specified Road construction work that increases the scope or magnitude of the required work.

If Purchaser fails to complete construction of any or all Specified Roads by applicable completion date, as adjusted, Contract Term Extension shall not be granted.

As used in this Subsection, construction of a road is completed when:

- (a) Purchaser constructs Specified Roads and Forest Service furnishes Purchaser with written notice of acceptance under B6.36 or
- (b) Forest Service constructs road and furnishes Purchaser with written notice authorizing use of road.

Notwithstanding B5.1, Purchaser shall not use a road that Purchaser has elected for Forest Service to construct, until construction is completed and Forest Service furnishes Purchaser with written notice authorizing use of road.

C5.210 – STAKING ERRORS BY PURCHASER. (10/04) A substantial change in the amount of construction work resulting from an error in staking, not resulting from an error in design, shall not be treated as a design change under B5.253 where construction staking is the responsibility of and performed by Purchaser under A7.

C5.31# – ROAD MAINTENANCE REQUIREMENTS. (7/01) Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications								
	From	To		T101	T108	T201	T301	T310	T506	T508		
301	School House	3321	1.00	D	D	D	D	D	D	D		
504	3557A	SH3	3.05	P	P	P	P	P	P	P		
3321	3331E	301	4.6	P	P	P	P	P	P	P		
3335	SH 3	MP 1.3	1.34	P	P	P	P	P	P	P		
3357A	MP 0.3	504	.25	P	P	P	P	P	P	P		

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications								
	From	To		T101	T103	T108	T201	T301	T310	T506	T508	
504	SH3	504A	1.69	P	P	P	P	P	P	P	P	
504A	504	504G	1.2	P	P	P	P	P	P	P	P	
504E	504A	Unit 7	1.1	P	P	P	P	P	P	P	P	
504F	504A	Unit 18	.6	P	P	P	P	P	P	P	P	
504G	504A	Unit 2	.8	P	P	P	P	P	P	P		
3321	301	3331E	4.60	P	P	P	P	P	P	P	P	
3321A	3321	Unit 5	.4	P	P	P	P	P	P	P	P	
3321B	3321	Unit 5	1.6	P	P	P	P	P	P	P	P	
3321C	3321	Unit 4	.9	P	P	P	P	P	P	P	P	
3557	Rd 3357A	Termini	.33	P	P	P	P	P	P	P	P	
3557A	MP .3	504	.25	P	P	P	P	P	P	P	P	
301	School House	3321	1.00	D	D	D	D	D	D	D	D	

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications								
	From	To		T101	T103	T108	T201	T301	T310	T506	T508	
504	SH3	504A	1.69	P		P	P	P	P	P	P	
504A	504	504G	1.2	P		P	P	P	P	P	P	
504E	504A	Unit 7	1.1	P		P	P	P	P	P	P	
504F	504A	Unit 18	.6	P		P	P	P	P	P	P	
504G	504A	Unit 2	.8	P		P	P	P	P	P		
3321	301	3331E	4.60	P		P	P	P	P	P	P	
3321A	3321	Unit 5	.4	P		P	P	P	P	P	P	
3321B	3321	Unit 5	1.6	P		P	P	P	P	P	P	
3321C	3321	Unit 4	.9	P		P	P	P	P	P	P	

3557	Rd 3357A	Termini	.33	P		P	P	P	P	P	P		
3557A	MP .3	504	.25	P		P	P	P	P	P	P		
301	School House	3321	1.00	D		D	D	D	D	D	D		

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

SPECIFICATION T-101 SURFACE BLADING

DESCRIPTION

1.1 Surface blading is keeping the native or aggregate surfaced road in a condition to facilitate traffic, minimize additional future maintenance, reduce erosion, and provide proper drainage. It includes maintaining the crown, inslope or outslope of the traveled way and shoulders, drainage dips, leadoff ditches, berms, turnouts, removal of minor slides and slumps, and other irregularities that prevent normal runoff from the road surface.

REQUIREMENTS

3.1 Surface blading shall be performed as often as necessary and to the standards required to facilitate traffic and proper drainage.

3.2 The blading shall be performed in such a manner as to preserve the existing cross section and to conserve surface materials. On gravel surfaced roads, the base must not be disturbed and no surface material may be bladed into the ditch or over the road shoulders. Blading of native surface roads shall be performed so no base material under four (4) inches in the greatest dimension is lost. All ruts, holes, etc., shall be removed by scarifying and/or cutting to the bottom of any surface irregularities. Oversize material brought to the surface in the scarification process shall be removed from the roadway. Surface material which has been displaced to the shoulders, turnouts, outside of curves, etc., shall be brought back so as to leave a uniform depth on the traveled way at completion of blading. Water shall be applied during blading if sufficient moisture is not present to prevent segregation.

3.3 Roadside cutslopes or berms shall not be undercut.

3.4 At intersections, the roadbeds of sideroads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.

3.5 Drainage dips and leadoff ditches shall be cleaned and continually maintained to conform reasonably to their original constructed lines, grade, and cross section.

3.6 Berms shall be repaired promptly by placing selected material as needed to restore the berm to its original condition.

3.7 Surface blading of native surface roads also includes ditch cleaning, which shall be done in accordance with T-301, Ditch Cleaning.

3.8 All blading operations shall be properly signed in accordance with B(T)6.33# and all applicable State Laws.

SPECIFICATION T-103 DUST ABATEMENT

DESCRIPTION

1.1 Dust abatement consists of road surface preparation and application of materials.

MATERIALS

2.1 Water, bituminous products, lignin sulfonates, chloride products, and other materials may be used for dust abatement. Materials other than water will require approval of the Forest Service and shall meet specifications furnished by the Forest Service.

REQUIREMENTS

3.1 Dust abatement materials shall be applied to the road surface as necessary to control surface loss and provide that vehicles are always intervisible within their stopping sight distance. The average user speed on the road shall be used to determine stopping sight distance. Preparation shall be in accordance with Specification T-101, Surface Blading.

3.2 The rate of application shall be such that the selected material will not run off the surface and cause pollution or unnecessary waste.

3.3 When water is the selected material, it shall be applied as often as necessary to abate dust from all Purchaser operations.

a. Dust abatement shall be maintained as needed throughout the duration of operations.

SPECIFICATION T-108 SLIDE REMOVAL AND SLUMP REPAIR

DESCRIPTION

1.1 Slide removal and slump repair consists of all work necessary to restore the road to its original cross section as necessary to facilitate use and provide drainage. This work is such that it cannot be handled by a grader during surface blading and ditch cleaning operations.

Slump repair is the filling with selected material of depressions or washouts in roadway which cannot be routinely filled by a motor grader.

Slide removal and slump repair includes excavation, loading, hauling, placing, and compacting of replacement material and the removal and disposal of waste material. This includes the development of disposal or borrow areas at locations approved by the Forest Service.

REQUIREMENTS

3.1 Purchaser shall deposit slide material in an approved manner at designated locations.

Material shall not be disposed of on road fills unless otherwise agreed.

The slope which contributed the slide material shall be reshaped as practicable to reduce future sliding unless otherwise agreed.

3.2 When filling slumps and depressions, select material shall be used, placed in layers, and compacted to conform with or exceed the density of existing subgrade.

Existing aggregate surfacing shall be salvaged and relayed or replaced after slumps have been filled.

Damaged aggregate base, aggregate surfacing, and asphalt surfacing shall be repaired under Specification T-113, Surfacing Repair.

3.3 Following slide removal, roadway shall be shaped so as to reasonably conform to its original subgrade template.

3.4 Slump, waste, and borrow areas shall be seeded as required under T-508.

SPECIFICATION T-201 SHOULDER MAINTENANCE

DESCRIPTION

1.1 Shoulder maintenance consists of keeping that portion of roadway adjacent to a paved and/or aggregate surface in a reasonably smooth condition and flush with the pavement and/or aggregate in order to provide lateral support to the surface. It may require blading, furnishing, and placing additional material, application of bituminous material, and any other work incidental to the maintenance of the shoulder.

MATERIALS

2.1 Materials selected for shoulder maintenance shall be similar to the material used in the previous construction or maintenance.

REQUIREMENTS

3.1 Shoulder Blading. Replace material as necessary. Blade and shape the entire width of the shoulder to drain the paved or aggregate surface. The shoulder material shall be moistened if necessary to ensure reasonable compaction and graded flush with the pavement or aggregate edge. The entire shoulder shall be fully compacted.

3.2 Asphalt Stabilized Shoulders. Where shoulder has been previously stabilized with bituminous treatment, reapplication of bituminous material shall be made when 50 percent of the shoulder surface material is no longer held in place by bitumen. Prior to treatment, it may be necessary to replace earth or aggregate material lost or moved since last application.

SPECIFICATION T-301 DITCH CLEANING

DESCRIPTION

1.1 Ditch cleaning is removing and disposing of all slough material from roadside ditches to provide an unobstructed waterway conforming reasonably to previous line, grade, and cross section.

REQUIREMENTS

3.1 Slough Material.

A. Native Surfaced Roads. Slough material from ditch cleaning, if suitable, may be placed and blended into the existing road surface or shoulders or placed in a designed berm during surface blading.

B. Aggregate Surface Roads. Slough material from ditch cleaning shall not be mixed with aggregate surfacing or left on the road surface unless otherwise agreed. Material shall be disposed of in an agreed manner at designated locations.

C. Asphalt Surfaced Roads. Equipment, methods, and timing shall be agreed to before start of ditch cleaning operations so as to protect the asphalt pavement. Material shall be disposed of in an agreed manner at designated locations.

SPECIFICATION T-310 MINOR DRAINAGE STRUCTURES

DESCRIPTION

1.1 Minor drainage structures are single passages with maximum waterway opening equivalent to a 78-inch round pipe (87- by 63-inch arch) or multiple passages with maximum, single waterway opening equivalent to a 60-inch round pipe (66- by 51-inch arch). They include overside drains. Maintenance is work performed on inlets, outlets, related channels, existing riprap, trash racks, and drop inlets.

MATERIALS

2.1 All materials used in the maintenance of minor drainage structures shall conform by type and specification to the material in the structure being maintained.

REQUIREMENTS

3.1 All minor drainage structures are to be maintained in accordance with these specifications in the spring following any significant runoff and prior to the beginning of winter storms.

3.2 Clear inlet and outlet channels, inlet trash racks, and drop inlets of loose material that could cause plugging or prevent the free flow of water. Debris shall be disposed of in agreed manner at designated locations.

3.3 If outlet riprap was originally placed to dissipate water energy, it shall be maintained in good condition including the replacement of riprap if necessary.

4.1 Make whatever minor repairs are necessary to ensure the proper functioning of the head walls, aprons, inlet assemblies, overside drains, riprap, trash racks, and other facilities related to the drainage structure.

SPECIFICATION T-506 CLEARING ROADWAY VEGETATION

DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth including trees from the road surface that reduces the operational capability of the road. Vegetation removal is required if the growth of the vegetation during the contract period causes unacceptable reduction of sight distance and operation capability.

REQUIREMENTS

3.1 Vegetative matter on the road surface which reduces sight distance, impedes vehicular travel, or interferes with road maintenance operations such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the roadside in locations where the traveled way or sight distance will not be impaired.

3.2 Low shrubs and brush which do not restrict sight distance, do not impede road maintenance, and reduce erosion need not be removed if the road surface can be adequately maintained without doing so. Vegetation and

nonmerchantable timber removed shall be disposed of by scattering, chipping, hauling to designated disposal areas, or as otherwise agreed upon.

SPECIFICATION T-508 SEEDING

DESCRIPTION

1.1 Seeding is the application of seed and fertilizer to areas where vegetation has been disturbed as a result of slides, slumps, disposal of materials, and other Purchaser operations in connection with road maintenance.

REQUIREMENTS

3.1 Purchaser shall provide and apply the required kinds and amounts of seed and fertilizer in accordance with the requirements in C(T)6.601#.

3.2 Surfaces of areas to be treated shall be in a loose and roughened condition favorable to the retention and germination of seed.

C5.315# - ROAD MAINTENANCE ON JOINT OWNERSHIP ROADS. (10/04) Use of road(s) listed below for removal of Included Timber is dependent upon Purchaser meeting commensurate share of road maintenance requirements. Prior to June 1, annually, Forest Service shall notify Purchaser in writing if (a) Purchaser is to perform commensurate share of road maintenance as provided in Special Provision C5.31# or (b) make deposits in lieu of performed maintenance at a rate per unit of measure (by product if applicable) per mile to be established each year or (c) combination thereof. If deposits are required, rates of deposit will be included in the notification.

Road Number	Road Name	Termini	Miles
301	Fishbook	School House -3321	1.00
3321	Christmas Creek	301- Unit 3	4.79
3321A	Christmas Time	Rd 3321 to FS property	0.1
3321B	Christmas Carole	Rd 3321 to FS property	0.1
3321C	Christmas Jingle	Rd 3321 to FS property	0.2

C5.316# - SNOW REMOVAL. (02/02) Snow removal shall be done in a manner to preserve and protect the roads to insure safe and efficient transportation and to prevent unacceptable erosion damage to roads, streams, and adjacent lands.

A. Description. Snow removal work by Purchaser shall include:

1. Removal of snow from entire road surface width including turnouts.
2. Removal of snow slides, minor earth slides, fallen timber and boulders that obstruct normal road surface width including turnouts.
3. Maintain drainage so that the drainage system will function efficiently.

B. Performance. All items of snow removal shall be done currently as necessary to insure safe, efficient transportation. Work shall be done in accordance with the following minimum standards of performance.

1. Removal of material. All debris, except snow and ice, that is removed from the road surface and ditches shall be deposited away from stream channels at agreed locations.

2. During snow removal operations, banks shall not be undercut nor shall gravel or other selected surfacing material be bladed off the roadway surface.

3. Ditches and culverts shall be kept functional during and following roadway use.

4. Snow berms shall not be left on the road surface. Berms left on the shoulder of road shall be removed and/or drainage holes shall be opened and maintained. Drainage holes shall be spaced as required to obtain satisfactory surface drainage without discharge on erodible fills.

5. Dozers and skidders shall not be used to plow snow on system roads without written approval of Forest Service. Upon approval, dozers and skidders must be equipped with shoes or runners to keep the plow blade a minimum of 4 inches above the road surface unless specifically removed from the requirements in writing.

6. Snow must not be removed to the road surface. A minimum 4 inch depth must be left to protect the roadway.

7. Purchaser's damage from, or as a result of, snow removal shall be restored in a timely manner.

C5.32# – ROAD MAINTENANCE DEPOSIT SCHEDULE. (7/01) Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Purchaser's performance of road maintenance, Purchaser shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Purchaser's commensurate use of each road listed in the Road Maintenance Plan in C5.31#.

Purchaser and Forest Service may agree in writing on adjustment of such rates. If purchaser uses roads under jurisdiction of Forest Service other than those listed in the Road Maintenance Plan, Forest Service shall establish rates commensurate with Purchaser's use of such roads.

The Required Deposits for Forest Service work in lieu of Purchaser performance and for deferred maintenance is: \$.18 per ton and \$0.19 for Timber Subject to Agreement under C2.11#

Purchaser shall make deposits for road maintenance directly to N/A for roads subject to the terms of a Road Maintenance Agreement that is available for inspection at the Forest Supervisor's office. Such deposits shall be at the rate of \$N/A per N/A.

C5.41# - CLOSURE TO USE BY OTHERS. (3/07)

A. Closure of Roads During Period of Contract. Unless otherwise agreed in writing between Purchaser and Forest Service, Purchaser shall within 15 days of receipt of notice from Forest Service, install closure devices listed below and close them on roads designated "To Be Closed" on Sale Area Map and listed below to effectively block access to vehicle traffic except that constituting official use. Installation of closure devices shall follow closure details attached hereto and made a part hereof.

Official vehicle traffic shall constitute that use by Purchaser and his employees when engaged in timber sale activities. It shall also include administrative traffic by Forest Service, and other landowners for the administration of their lands. Purchaser shall close road as directed by Forest Service at the completion of daily activities or maintain closure after passage of each vehicle. Forest Service will monitor and administer closure activities.

CLOSURE DEVICES					
Road Number	Location	Furnished By	Closure Method	Closure Device Installed By	In Place
504A	MP 0.01	Existing	Gate	Existing	Yes
3321	MP 3.90	Existing	Gate	Existing	Yes (Potlatch)
3335	MP 0.01	Existing	Gate	Existing	Yes
3557A	MP 0.01	Purchaser	Gate	Purchaser	No

During the life of this contract, Purchaser shall install temporary barricades at locations designated "Temporary activity Barricade" on Sale Area Map and shown below. Temporary barricades shall be installed so that they may be readily opened by Purchaser or Forest Service for access to Sale Area in case of fire or other emergency. Official vehicle traffic shall also include administrative traffic by Forest Service and other landowners for the administration of their lands. Purchaser shall provide and post approved signs as authorized by Forest Service. Installation of Temporary Activity Barricades shall follow closure details attached hereto and made a part hereof.

During the period January 1 to December 31 when Purchaser's Operations are in areas otherwise closed to motorized vehicles, Purchaser shall not be permitted to hunt, transport hunters, discharge firearms or transport big game animals with vehicles within the closed areas.

TEMPORARY ACTIVITY BARRICADES

Road Number	Location	Closure Method

B. Closure of Roads at End of Purchaser's Use. Unless otherwise agreed in writing between Purchaser and Forest Service, upon completion of use, Purchaser shall effectively close to public use the following roads designated "To Be Closed" on Sale Area Map and listed below. Existing locking closure devices shall be closed and locked as directed by Forest Service. As an element of final road maintenance and environmental or resource protection, the designated closure shall be accomplished by using the methods required for each road as described below:

Closure Location(s)				
Road Number	Location	Closure Method	Furnished By	In Place
504A	MP 0.01	Gate	FS	X

3321	MP 3.90	Gate	FS	X
3335	MP 0.01	Gate	FS	X

C5.419# – SYSTEM ROAD STABILIZATION. (3/07)

Roads listed below, shown on the Sale Area Map and used by Purchaser shall be stabilized after they have served the Purchaser’s purpose, in accordance with details in the attached road logs and typical specifications. Roads include:

Roads 504A, 504E, 504F, 504G, 3321, 3321A, 3321B, 3321C, 3321E, 3335, 3335C, 3557, and 3557A

<u>ROAD LOG</u>

SYSTEM ROAD STABILIZATION METHODS, LOGS & DETAILS

STABILIZATION METHOD: A - GATE

DESCRIPTION

The road shall be checked to assure that all erosion and/or other specified maintenance items are in place as specified under the timber sale contract (i.e. surface blading, ditch cleaning, cleaning drainage structures, etc). The work shall consist of shaping traveled way and shoulders, construction of water bars, furnishing and installing gates, seeding and furnishing and installing sign panels, posts and hardware as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS.

PERFORMANCE

The roadbed shall be shaped to drain and drivable water bars constructed to facilitate proper drainage. The roadbed shall be insloped where functioning ditched sections exist and outsloped in non-ditched sections. Construct drivable water bars at frequency and configuration as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Install gates; provide signing for gates or road closure as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Seed and fertilize any disturbed area as described in the ROAD STABILIZATION LOG.

STABILIZATION METHOD: C - STORAGE

DESCRIPTION

The work shall consist of shaping traveled way and shoulders to drain, roadbed scarification or decompaction, removal of culverts and temporary bridges, stream channel restoration with associated gradient control structures and sediment basins, wet area treatment, construction of water bars, embankment removal and embanking or hauling materials to designated disposal areas, seeding, furnishing and installing sign panels, posts and hardware and install/construction of barrier or full road recontour closure as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS.

PERFORMANCE

Work shall begin at the road end or designated start location and progress out towards the road closure described in the ROAD STABILIZATION LOG. The roadbed shall be shaped to drain and water bars constructed to facilitate proper drainage. The roadbed shall be insloped where functioning ditched sections exist and outsloped in non-ditched sections. Fill ditches during decompaction operation where shown on the ROAD STABILIZATION LOG. Construct water bars at frequency and configuration as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Selected fills, designated culverts and temporary bridges shall be removed and disposed of as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Stream channel restoration with associated gradient control structures and sediment basins shall be constructed as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Wet areas shall be treated as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. The entire traveled way and shoulders shall be scarified or decompacted to the depth as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Seed and fertilize road surface and any disturbed areas. A section of full road recontoured or an earthen barrier shall be constructed near the beginning of the road and install road closure sign assembly as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS.

Mulch material shall be grass hay or straw, State certified free of noxious weeds or other objectionable material and shall be applied at a rate of 3000 pounds per acre to areas described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. The Contractor shall furnish the Contracting Officer with a copy of the certification.

STABILIZATION METHOD: D – PARTIAL RECONTOUR

DESCRIPTION

The work shall consist of partial roadway obliteration, roadbed decompaction by loosening the roadbed material, removal of culverts and bridges, stream channel restoration with associated

gradient control structures and sediment basins, wet area treatment, embankment removal and embanking or hauling materials to designated disposal areas, seeding, and construction of an earthen barrier or full road recontour closure as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS.

PERFORMANCE

Work shall begin at the road end or designated start location and progress out towards the road closure described in the ROAD STABILIZATION LOG. All embankments segments shall be pulled up and placed onto the roadbed or hauled to designated disposal areas and all culverts and bridges shall be removed and disposed of as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. All excavated material shall be kept within the original roadway limits. Construction slash and/or concentrations of woody debris shall be treated as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Stream channel restoration with associated gradient control structures and sediment basins shall be constructed as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Wet areas shall be treated as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. The entire traveled way and shoulders shall be decompacted to the depth as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. Seed and fertilize road surface and any disturbed areas. A section of full road recontoured or an earthen barrier shall be constructed near the beginning of the road as described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS.

Mulch material shall be grass hay or straw, State certified free of noxious weeds or other objectionable material and shall be applied at a rate of 3000 pounds per acre to areas described in the ROAD STABILIZATION LOG and/or SHOWN ON THE DETAILS. The Contractor shall furnish the Contracting Officer with a copy of the certification.

ROAD STABILIZATION LOGS

Rd. 504A Stabilization Method A

Location	Description
M.P. 0.00	Close Gate.
M.P. 0.00 to M.P. 1.20	Surface blade roadbed, shape to drain, clean ditches and drainage structures, as needed, entire length so as to conform to Maintenance Detail, to facilitate roadbed drainage in accordance with the Road Maintenance Specifications CT5.31# including attached T-Specifications.

Rd. 504E Stabilization Method C

Location	Description
M.P. 0.02 to M.P. 0.12	Construct 500-foot full recontour in accordance with the Full Road Recontour Detail.
M.P. 0.12 to M.P. 1.13	Shape roadbed to drain. Scarify roadbed to 4" depth. Construct non drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel. In addition there will be four 300-foot segments of full recontour as directed by the Sale Administrator. In areas of full recontour, including culvert removals, stockpile aggregate surfacing at locations approved by the Sale Administrator.
M.P. 1.03 to M.P. 1.13	Construct 500-foot full recontour in accordance with the full road recontour detail. The following are the known culverts; these and any others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.

M.P.	Culvert	Comments
0.03	18" CMP	No channel needed
1.09	18" CMP	No channel needed

Rd. 504F Stabilization Method C

Location	Description
M.P. 0.02	Construct earthen barrier with closure signing.
M.P. 0.02 to M.P. 0.57	Decompact roadbed to 18" depth, shape to drain, fill ditches . Construct non drivable water bars in accordance with Water Bar Construction Detail Remove existing culverts (unknown quantity, assumed 0 CMPs). Re-establish drainages so as to conform to

Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel.

Rd. 504G Stabilization Method C

Location	Description
M.P. 0.02	Construct earthen barrier with closure signing.
M.P. 0.02 to M.P. 0.75	Decompact roadbed to 18" depth, shape to drain, fill ditches . Construct non drivable water bars in accordance with Water Bar Construction Detail. Remove existing culverts (unknown quantity, assumed 0 CMPs). Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel.

Rd. 3321 Stabilization Method A

Location	Description
M.P. 3.90	Close Gate.
M.P. 3.90 to M.P. 4.10	Surface blade roadbed, shape to drain, clean ditches and drainage structures, as needed, entire length so as to conform to Maintenance Detail, to facilitate roadbed drainage in accordance with the Road Maintenance Specifications CT5.31# including attached T-Specifications.

Rd. 3321A Stabilization Method C

**A BURIED POWERLINE IS KNOWN TO EXIST IN THIS AREA
CALL BEFORE YOU DIG**

Location	Description
M.P. 0.18 to M.P. 0.36	Decompact roadbed to 18" depth, shape to drain, fill ditches . Construct non drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed

earth and mulch all disturbed slopes that drain into the stream channel. The following are the known culverts; these and any others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.

M.P.	Culvert	Comments
0.18	18" CMP	Channel

Rd. 3321B Stabilization Method C

Location
 M.P. 0.10
 M.P. 0.10 to M.P. 1.60

Description
 Construct earthen barrier with closure signing.
 Decompact roadbed to 18" depth, shape to drain, fill ditches .
 Construct non drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel. The following are the known culverts; these and any others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.

M.P.	Culvert	Comments
0.25	18" CMP	Channel
0.31	18" CMP	Channel
0.46	18" CMP	Channel
0.55	18" CMP	Channel
0.82	18" CMP	Channel
1.28	18" CMP	Channel

Rd. 3321C Stabilization Method D

Location
 M.P. 0.20 to M.P. 0.26

Description
 Construct 300-foot full recontour in accordance with the Full Road Recontour Detail.

M.P. 0.26 to M.P. 0.67

Partial Road Recontour entire length: decompact roadbed, 24" depth, the entire length of roadbed to prepare area for receiving embankment material as shown on Detail prior to pulling up fills; so as to conform to Partial Road Recontour. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel. The following are the known culverts; these and any others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.

M.P.	Culvert	Comments
0.08	18" CMP	Channel
0.35	18" CMP	Channel
0.37	18" CMP	Channel

Rd. 3321C Stabilization Method C

M.P. 0.67 to M.P. 1.19

Decompact roadbed to 18" depth, shape to drain, fill ditches . Construct non drivable water barrs in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel. The following are the known culverts; these and any others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.

M.P.	Culvert	Comments
0.74	18" CMP	Channel
0.85	18" CMP	Channel
0.87	18" CMP	Channel

Rd. 3321E Stabilization Method C

Location

M.P. 0.02

M.P. 0.02 to M.P. 0.27

Description

Construct earthen barrier with closure signing.

Decompact roadbed to 18" depth, shape to drain, fill ditches . Construct non drivable water bars in accordance with Water Bar Construction Detail Remove existing culverts (unknown quantity, assumed 0 CMPs). Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details. Construct drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel.

Rd. 3335 Stabilization Method A

Location

M.P. 0.00

M.P. 0.00 to M.P. 0.80

Description

Close Gate.

Surface blade roadbed, shape to drain, clean ditches and drainage structures, as needed, entire length so as to conform to Maintenance Detail, to facilitate roadbed drainage in accordance with the Road Maintenance Specifications CT5.31# including attached T-Specifications.

Rd. 3335C Stabilization Method C

Location M.P. 0.10 M.P. 0.10 to M.P. 0.50	Description Construct earthen barrier with closure signing. Decompact roadbed to 18" depth, shape to drain, fill ditches . Construct non drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel. The following are the known culverts; these and any others encountered shall be removed. Re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.
---	--

M.P.	Culvert	Comments
0.25	18" CMP	Channel
0.38	18" CMP	Channel
0.45	18" CMP	Channel

Rd. 3557 Stabilization Method C

M.P. 0.00 to M.P. 0.10	Construct 500-foot full recontour in accordance with the Full Road Recontour Detail.
M.P. 0.10 to M.P. 0.33	Shape roadbed to drain. Scarify roadbed to 4" depth. Construct non drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed earth and mulch all disturbed slopes that drain into the stream channel. Any culverts encountered shall be removed. At areas where culverts are removed, re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.

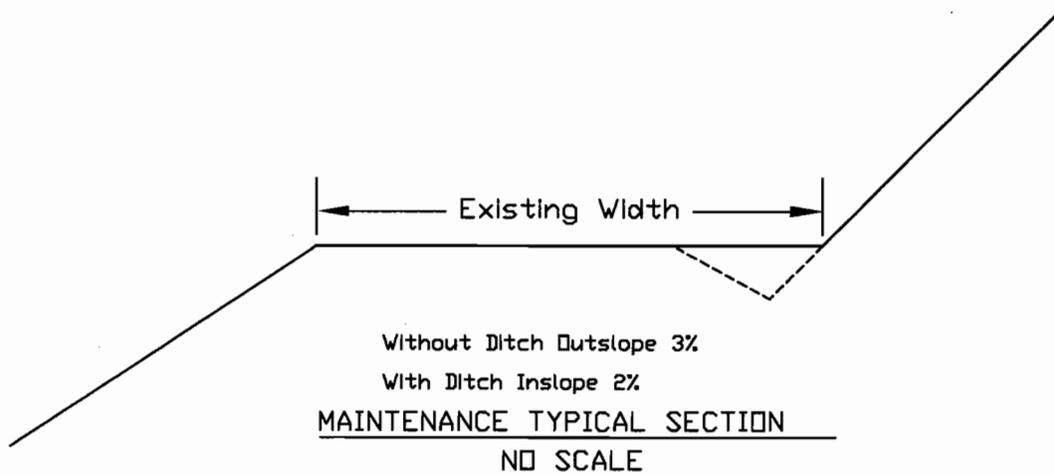
R 3557A Stabilization Method C

M.P. 0.02 earthen barrier	Remove Gate and transport to Clarkia Work Center. Construct with closure signing.
M.P. 0.02 – M.P. 0.25	Shape roadbed to drain. Scarify roadbed to 4" depth. Construct non drivable water bars in accordance with Water Bar Construction Detail. Seed and fertilize roadbed and all disturbed

Maintenance Detail

Cedar Side Boards Timber Sale

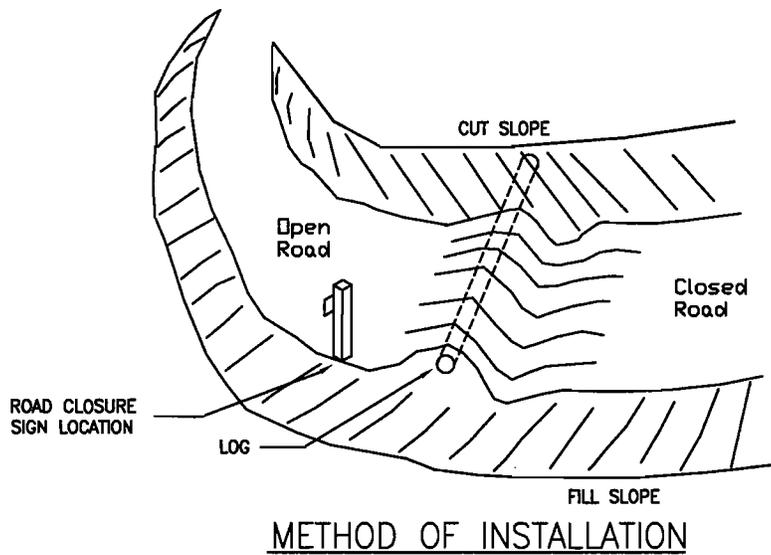
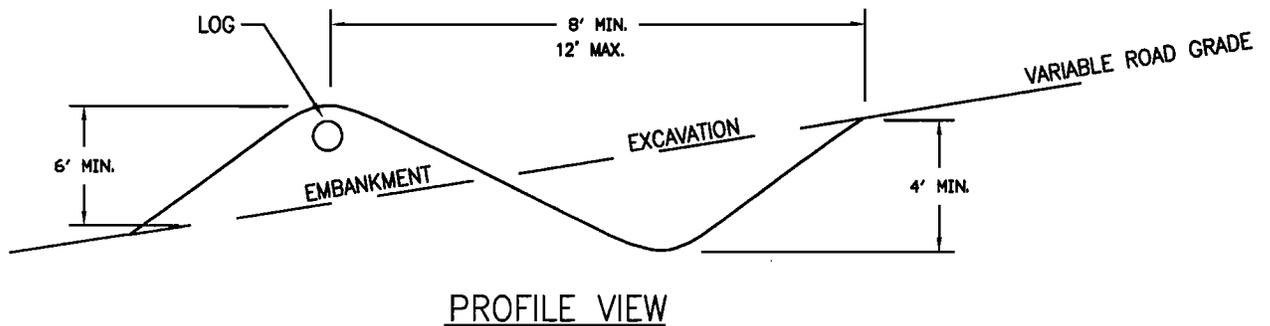
System Road Stabilization, C5.419#



Earthen Barrier Detail

Cedar Side Boards Timber Sale

System Road Stabilization, C5.419#



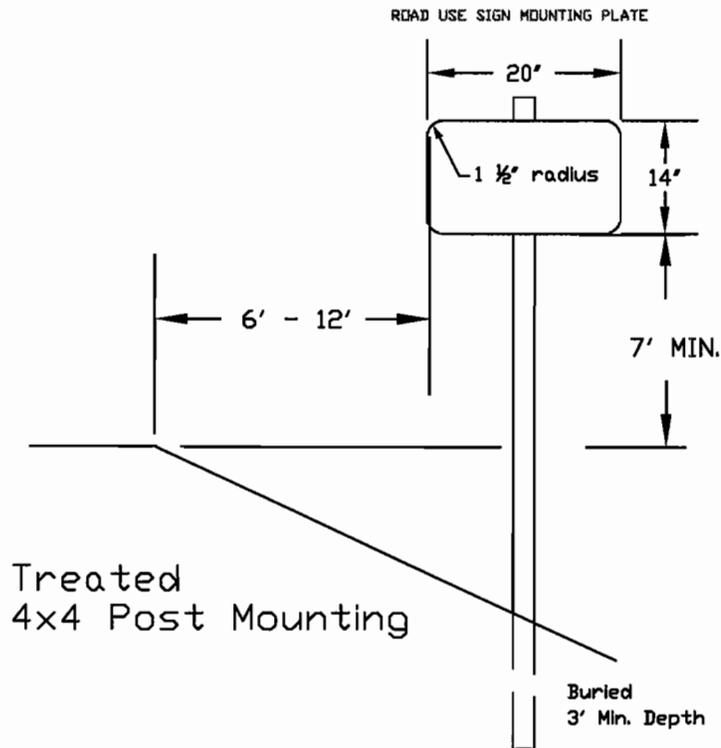
CONSTRUCTION NOTES

- (1) Place 20" diameter log in embankment and cover with at least 12" of embankment material. Log shall be keyed into cut bank 4'. Log may be deleted with written approval by the Contracting Officer.
- (2) The bottom of barricade shall be outsloped on a 7% grade unless otherwise directed.
- (3) Earthen Barriers shall be constructed at locations approved by Contracting Officer or shown on location chart.
- (4) Install Closure sign and post.
- (5) Drawings not to scale.

Road Closure Sign Detail

Cedar Side Boards Timber Sale

System Road Stabilization, C5.419#

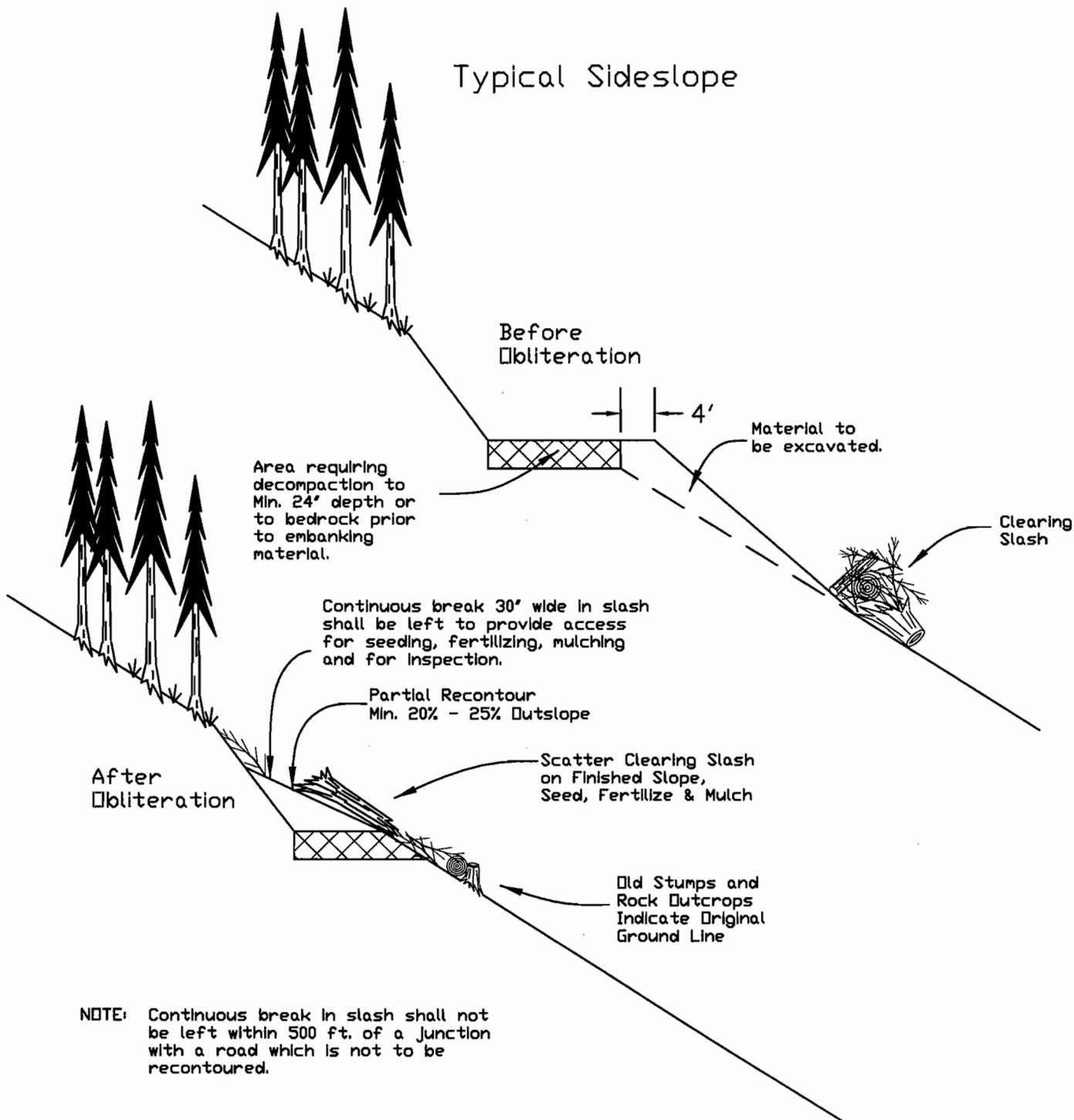


Typical Sign Installation (as per M.U.T.C.D.).

NOTE: After fabrication, Road Use Sign Mounting Plate Must be sanded to remove all rust, scale, and oily substance and painted with brown or red primer.

Partial Road Recontour Detail

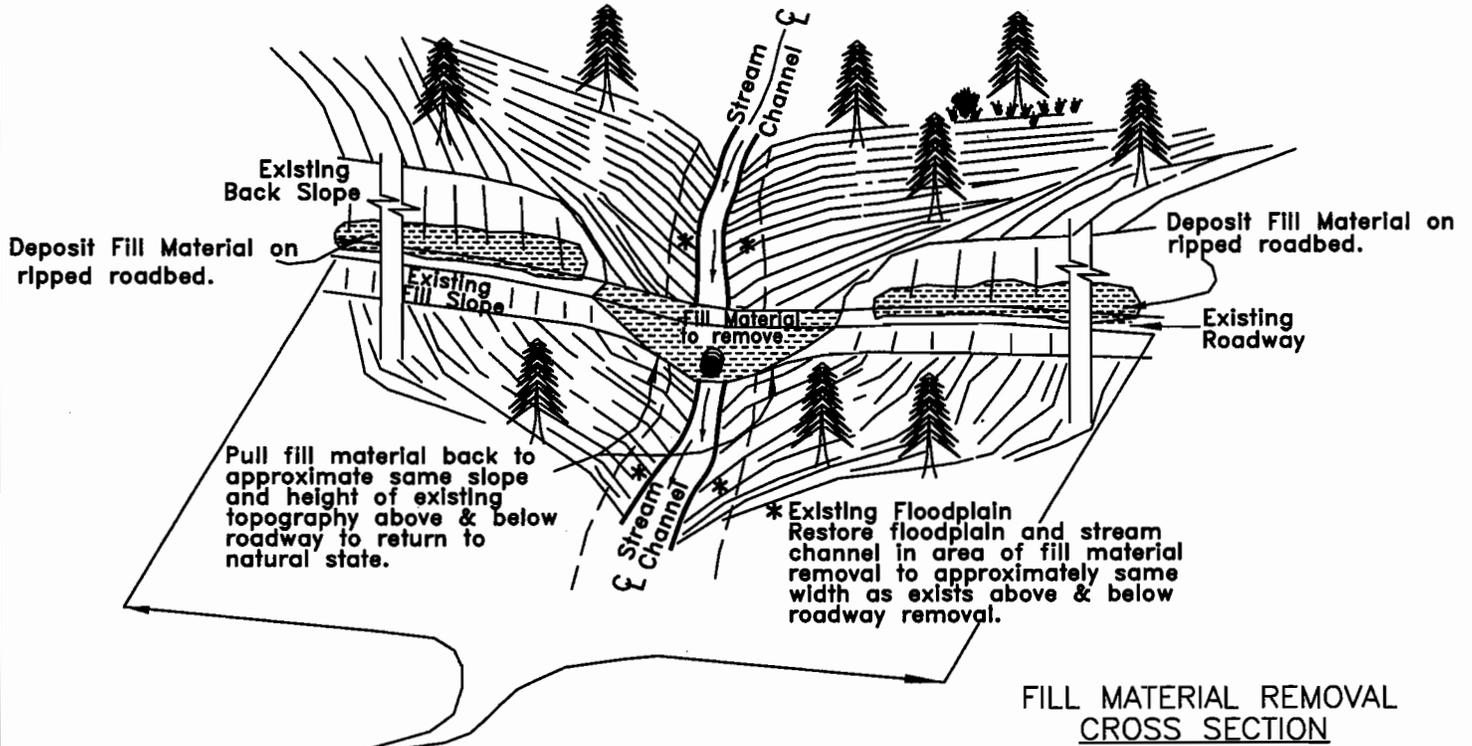
Cedar Side Boards Timber Sale
System Road Stabilization, C5.419#



Stream Channel Restoration Detail

Cedar Side Boards Timber Sale

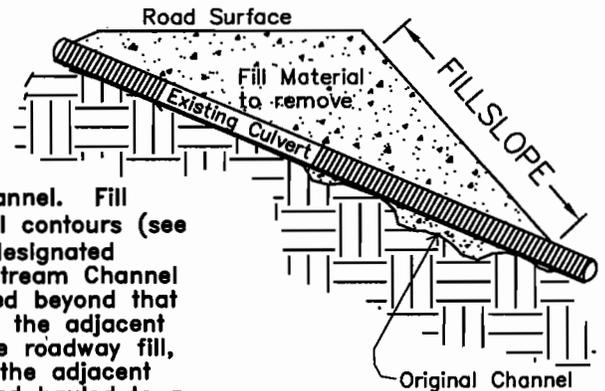
System Road Stabilization, C5.419#



Culvert Type	Stream Channel Restoration Area
cross drain	100 Feet each side of culvert
channel evident	200 Feet each side of channel center

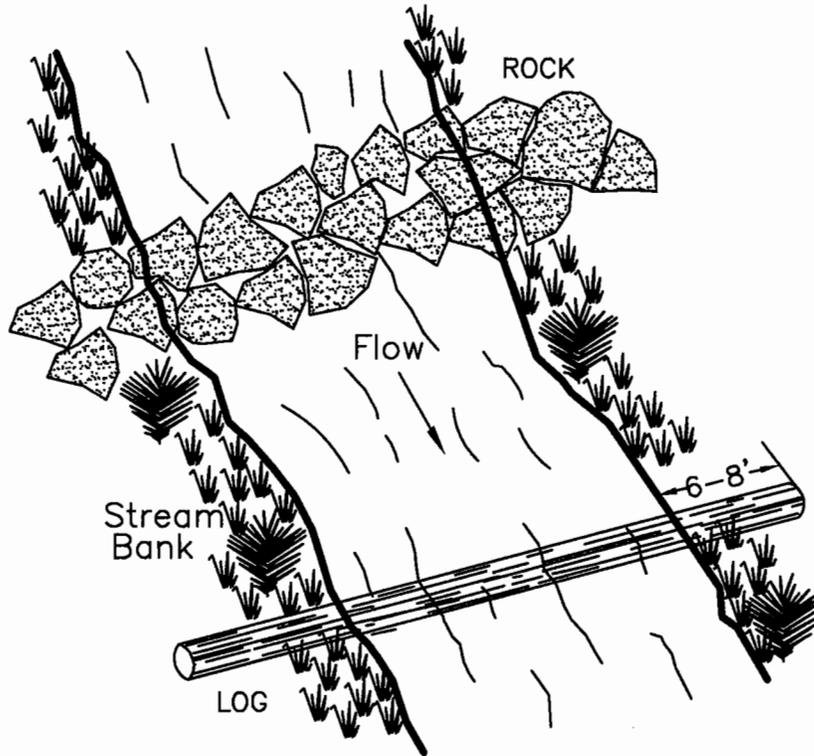
NOTES:

1. Remove all fill material from Floodplain down to the original channel. Fill material removed shall be placed and shaped to approximate natural contours (see Full Recontour Detail) on the decompacted roadbed or hauled to a designated disposal site as determined by the Contracting Officer. Within the Stream Channel Restoration area, no additional fill removal material shall be deposited beyond that which was originally there prior to road construction. Full recontour the adjacent roadway within the stream channel restoration area by pulling up the roadway fill, placing and shaping the fill onto the roadway, and contouring it to the adjacent original ground slopes. Any excess material encountered shall be end hauled to a designated disposal site and is incidental to the road closure.
2. Distances for Stream Channel Restoration may be adjusted to either side of channel to accommodate overlapping sections where streams are close together.
3. Available woody debris shall be scattered on finished slope with larger wood and rock placed within the Floodplain.
4. Gradient Control Structures shall be placed at 15 foot maximum intervals as shown on the Gradient Structure Control Detail or as directed by the Contracting Officer.
5. Culverts (metal, plastic or concrete) removed shall become the property of the Purchaser and shall be removed from National Forest System Lands and disposed of in accordance with Federal, State and Local Laws.
6. In stream channels with flowing water the Contractor shall install a Basin as shown on the Straw Bale Sediment Basin Detail prior to starting culvert removal. The Straw Bale Sediment Basin shall be maintained during culvert removal.



Gradient Control Structure Detail

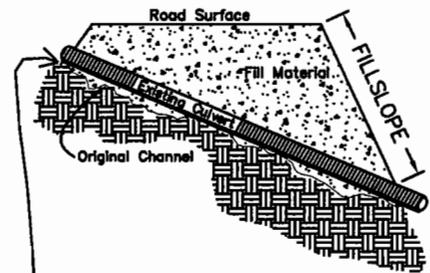
Cedar Side Boards Timber Sale System Road Stabilization, C5.419#



Notes:

- 1.) Log shall be minimum 16" small end diameter unless otherwise approved by the Contracting Officer.
- 2.) Rock may be substituted and used in the same manner as wood. Minimum rock size for small streams shall be 6"X5"X8", and minimum rock size for large streams shall be 9"X9"X14" unless otherwise approved by the Contracting Officer.
- 3.) Structure shall be installed perpendicular to stream flow and on a level plane.
- 4.) Structure (log or rock) shall be keyed in at a minimum of 4" below original stream grade and shall not extend more than 6" above median streamflow level and to a minimum of 6' into each stream bank.
- 5.) Ditch relief culverts should not require gradient control structures unless they are in a natural channel.
- 6.) Gradient control structures shall be constructed within the area of the removed embankment and the first structure shall be within 3 feet of the inlet of the removed culvert. Structures shall be placed at a maximum spacing of 15 feet apart covering the length of the removed embankment and there shall be at least two structures minimum or as directed by the Contracting Officer.

CROSS SECTION



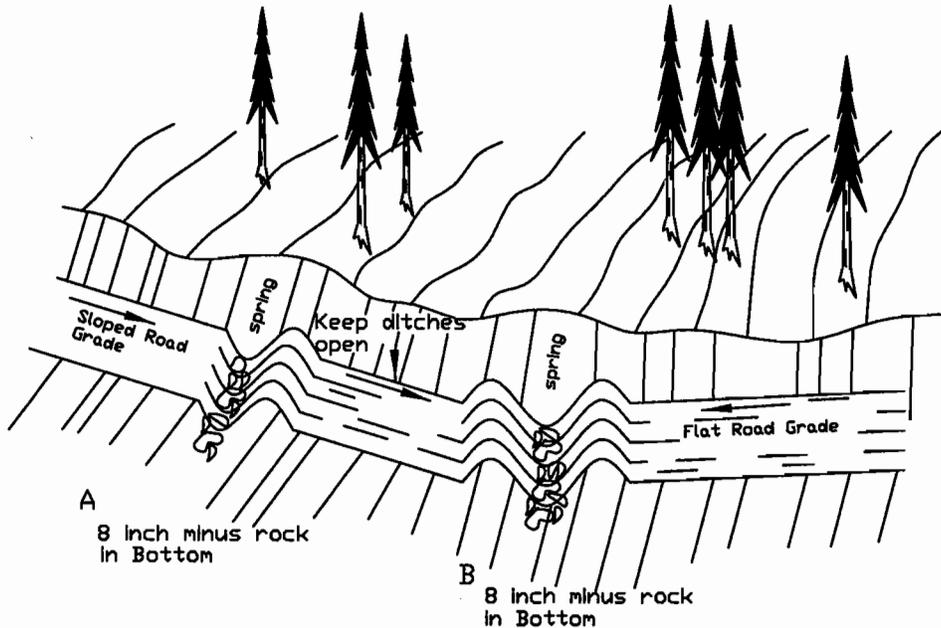
Location of first structure, then other structures at maximum spacing interval of 15 feet thereafter.

Spring/Wet Area Drainage Detail

With or Without Ditch

Cedar Side Boards Timber Sale

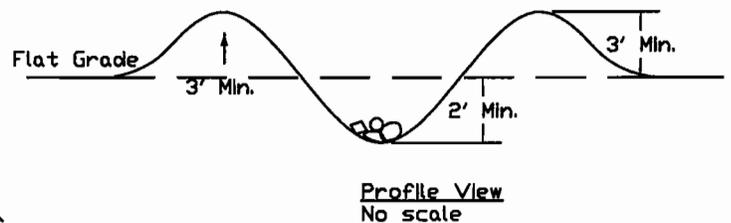
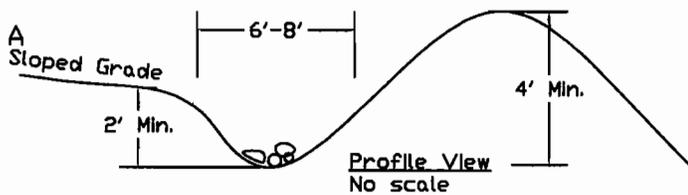
System Road Stabilization, C5.419#



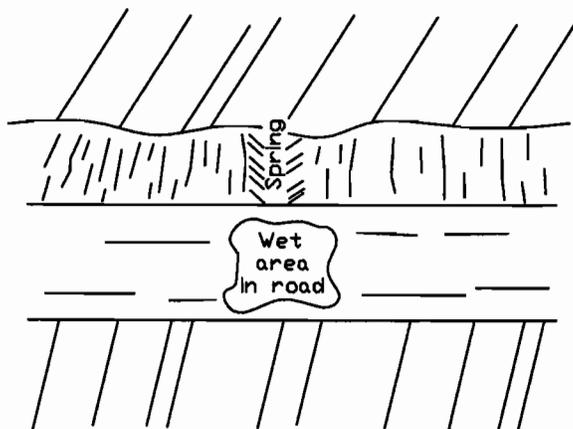
NOTE:

Any Culvert encountered shall be removed and shall become the property of the Purchaser and shall be removed from National Forest System Lands and disposed of in accordance with Federal, State and Local Laws.

Do not place excavated material against a weeping cutbank, a spring or in ponded water.

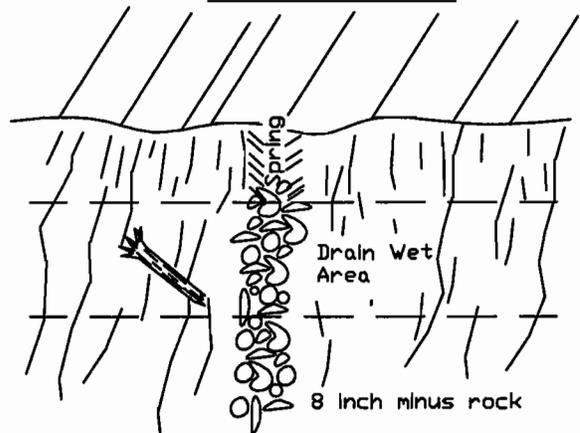


After Rehab



Before Rehab

Plan View
No Scale

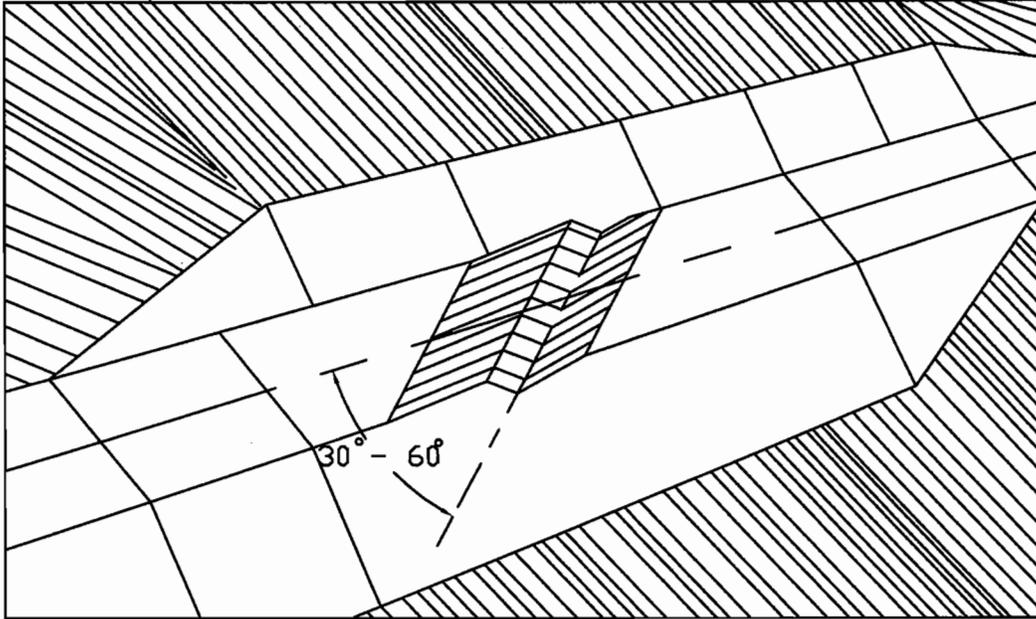


8 inch minus rock

WATER BAR CONSTRUCTION DETAIL

Cedar Side Boards Timber Sale

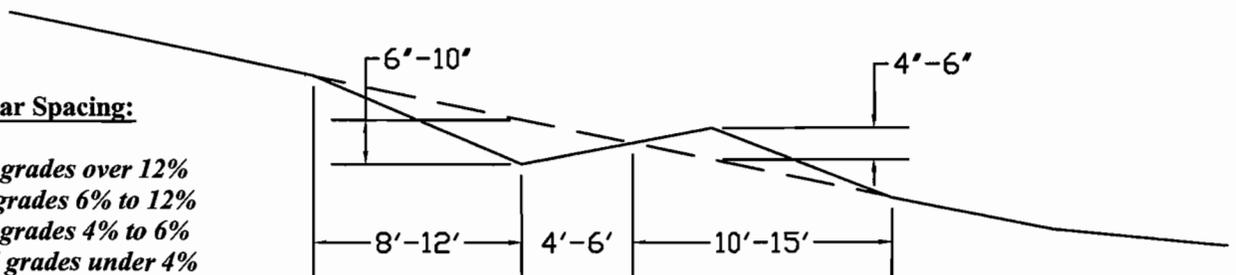
System Road Stabilization, C5.419#



PERSPECTIVE VIEW

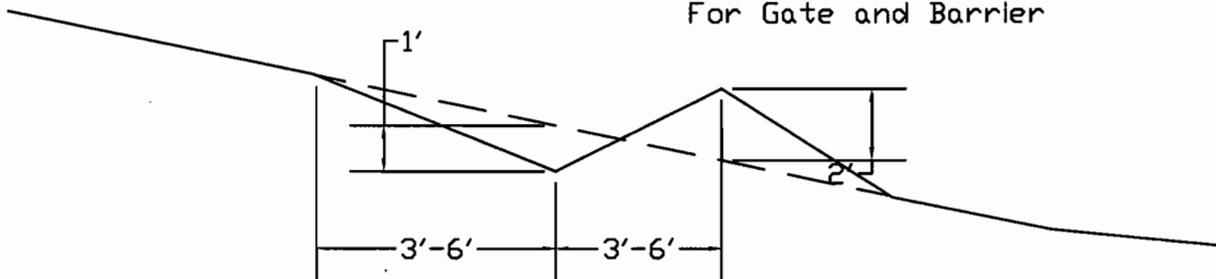
Water bar Spacing:

- 100' for road grades over 12%*
- 150' for road grades 6% to 12%*
- 300' for road grades 4% to 6%*
- 1000' for road grades under 4%*



Profile -- Driveable

For Gate and Barrier



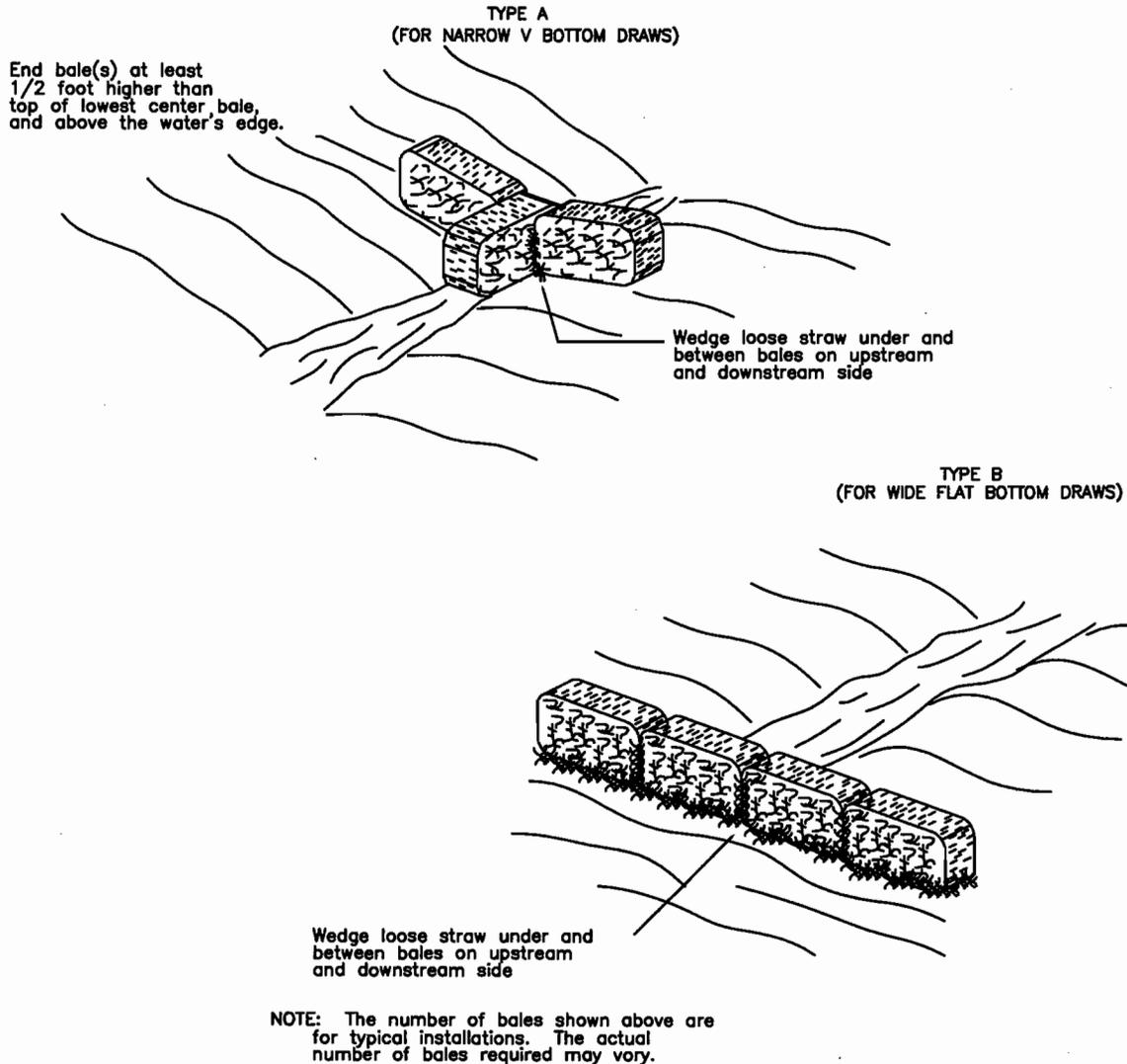
Profile -- Non-driveable

For Storage & Partial Recontour

Straw Bale Sediment Basins Detail

Cedar Side Boards Timber Sale

System Road Stabilization, C5.419#



NOTES:

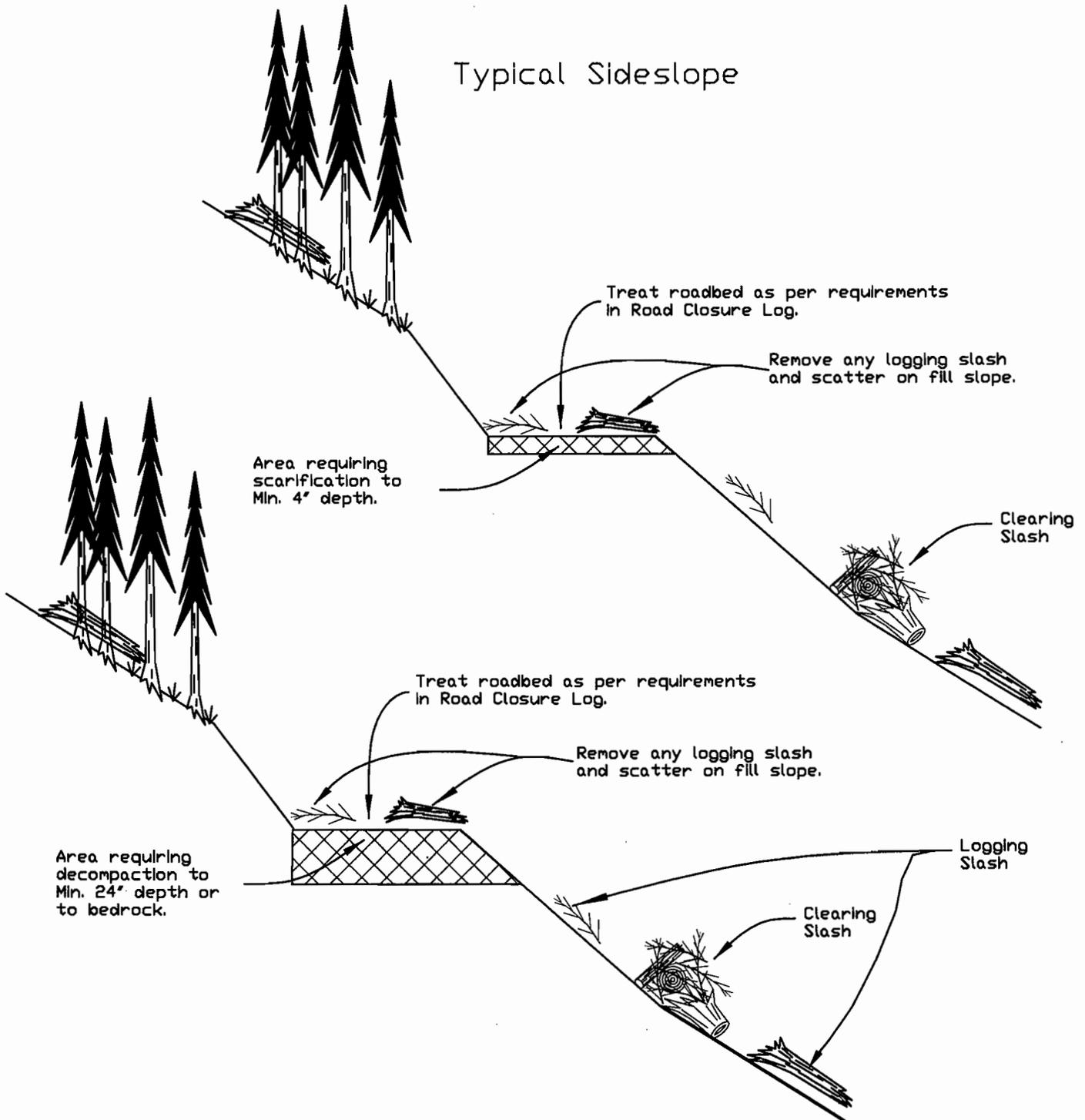
1. Grass hay or straw shall be of approved herbaceous mowings, certified free of noxious weeds or other objectionable material.
2. Straw bale sediment basins shall be constructed in live streams prior to culvert removal.
3. The barrier length shall extend across the stream so that of each end bale is at least one half foot higher than the top of the lowest center bale and above the water's edge.
4. Bales shall be staked or weighted in place using native materials. Loose straw or hay shall be wedged under and between the bales.
5. After culvert removal and stream bed restoration, trapped sediment shall be removed and scottered above high water mark. Then straw bales shall be broken up and scattered above high water mark.

Long Term Storage Detail

Cedar Side Boards Timber Sale

System Road Stabilization, C5.419#

Typical Sideslope



earth and mulch all disturbed slopes that drain into the stream channel.

Any culverts encountered shall be removed. At areas where culverts are removed, re-establish drainages so as to conform to Stream Channel Restoration and Spring/Wet Area Drainage Details.

C6.10 - PREWORK CONFERENCE. (10/04) Annually, prior to commencement of work, a prework conference will be held to discuss contract terms and work performance requirements. Also at this meeting such things as responsibility under OSHA, and procedures for how undesigned timber that may have to be added to the contract (including danger trees) shall be discussed and documented.

The Purchaser, or designated representative, will arrange for the meeting with the Contracting Officer.

C6.23 - PROTECTION OF LAND SURVEY MONUMENTS. (10/04) Forest Service shall appropriately designate on the ground all known survey monuments including but not limited to horizontal control stations (Triangulation Stations), vertical control stations (Bench Marks), property corner monuments, and all Public Land Survey System monuments. This shall include reference monuments, corner accessories such as bearing trees, line trees and line posts. Identifying signs shall be posted by Forest Service on two sides of each known bearing tree and each line post shall be posted with a metal sign or decal. Line trees may be cut if designated under B2.3.

In authorized clearings such as Clearcutting Units and road construction clearings, and in other instances where damage to survey monuments, corners, corner accessories and survey of property line markers is unavoidable, Forest Service shall arrange protective or perpetuative action which does not cause unnecessary delay to Purchaser.

Purchaser shall protect all known survey monuments, witness corners, reference monuments, bearing trees and line markers against avoidable destruction, obliteration or damage during Purchaser's Operations. Additional monuments or objects discovered on the area shall be promptly reported to the other party and shall also be protected. If any known monuments, corners, corner accessories, and survey or property line markers are destroyed, obliterated or damaged during Purchaser's Operations, Purchaser shall employ a registered professional land surveyor to reestablish or restore at the same location the monuments, corners, corner accessories or line markers. Such surveyors shall use procedures and monumentation that accords with the Bureau of Land Management Manual of Instructions for the Survey of the Public Lands of the United States for General Land Office surveys and any applicable State statutes concerned with land surveys. Purchaser's agent shall record such surveys in accordance with state survey statutes.

C6.316# - LIMITED OPERATING PERIOD. (5/05) Except when agreed otherwise in writing, Purchaser's operations shall be limited as follows:

In units 7,15,16, & 17 and timber subject to agreement under C2.11# (15H, 16H, and 17H), no harvest or post harvest activities may occur between March 15 and August 15 (during Goshawk activity).

If goshawk nesting area is found within or adjacent to a unit, as determined by Forest Service, the following measures may be taken:

No felling, skidding, road construction or other potentially disturbing activities within approximately ½ mile of the nest site, may occur between March 15 and August 15.

Included timber may be deleted in an area of approximately 30 acres around the site, as determined by Forest Service. Other activities, such as road construction, may also be suspended in this 30 acres area.

Activity restrictions can be removed after June 30 if the District Wildlife Biologist determines that the nest site is inactive or unsuccessful.

Operate in one subdivision at a time for wildlife security

Culvert removal shall occur between July 15th – September 1st.

C6.320# –RESERVE TREE PROTECTION. (10/04) Purchaser shall protect reserve trees, described in C2.301#, from damage or destruction in Purchaser's Operations. In the event reserve trees are damaged or destroyed by Purchaser's Operations, such damage will cause serious and substantial silvicultural or other damage to the National Forest. It will be difficult if not impossible to determine the amount of such damage. Therefore, Purchaser shall pay as fixed, agreed and liquidated damages **\$500.00** for each wildlife reserve tree and **\$5000.00** for each White Pine Plus Trees reserve tree damaged or destroyed in addition to amounts payable under B3.45 and B3.46.

Damage, as used herein, includes any injury to the living crown, bole, or roots of reserve trees. If areas are marked on the ground around such reserve trees, operation of heavy equipment or skidding of products within said area shall be considered to be damage to the tree.

Attachment B6.33

10/01

LOGGING AND MAINTENANCE OPERATIONS SIGNING STANDARDS

All signs must be manufactured & installed as specified in the FHWA "Manual on Uniform Traffic Control Devices" (MUTCD) & FS publication "Standards for Forest Service Signs & Posters"(EM 7100-15).

SIGN STANDARDS

SHAPE & COLOR: Generally, signs for logging and maintenance operations are either diamond-shaped or rectangular. All signs are *reflective orange background with black legend and border* unless shown otherwise. Handpainted, homemade signs are not legal. Fluorescent paint is not reflectorized.

SUBSTRATE: Sign substrate material may be High Density Overlay (HDO) Plywood, Aluminum, Fiberglass Reinforced Plastic, Corrugated Plastic or Roll-up Fabrics.

SIGN SIZE: Sign size is a factor of speed and MUTCD & FS standards. Where conditions of speed, volume, or special hazard require greater visibility or emphasis, larger signs should be used. Minimum sizes for the most common signs can be found in Figure 4. Refer to the EM-7100-15 for additional sign sizes.

LEGEND: All lettering shall be Series "C" alphabet, conforming to Standard Alphabets for Highway Signs. Letter size is also a function of speed - use letter size and word messages as specified in MUTCD and EM-7100-15.

SIGN PLACEMENT

Signs are to be installed in locations as agreed to in the traffic control plan. All signs are to be removed, covered, or folded when operations are not in progress or the sign message is not applicable. Signs should generally be located

on the right-hand side of the roadway. When special emphasis is needed, signs may be placed on both the left and right sides of the road. Sign message shall be clearly visible to road users, mounted on posts or portable sign stands.

LATERAL CLEARANCE

From the edge of the road - 2 foot minimum, where slope limits to less than 6 feet. 6-12 foot preferred.

HEIGHT

Minimum of 7 feet, measured from the bottom of the sign to the near edge of the travelway. The height to the bottom of a supplemental sign mounted below the primary sign will be 6 feet.

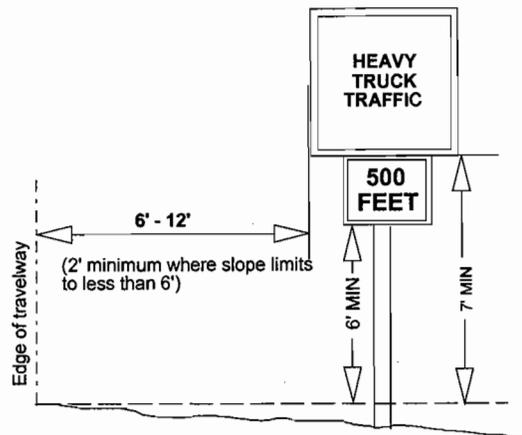


Figure 1: Sign Placement

Dimensions

PLACEMENT DISTANCE

Signs must be located 100-500 feet prior to the activity, (both ends if a through road) and maintained at that distance. This distance is based on speed. Refer to Figure 2 , Table II-1, MUTCD, a portion of which is reproduced here, to determine correct placement distance.

Posted or 85 percentile speed MPH	Deceleration to listed advisory speed MPH				
	10	20	30	40	50
20	NA				
25	100				
30	150	100			
35	200	175			
40	275	250	175		
45	350	300	250		
50	425	400	325	225	
55	500	475	400	300	
60	575	550	500	400	300
65	650	625	575	500	375

Figure 2: A Portion of MUTCD TABLE II-1

SIGN SUPPORTS

POSTS: Signs are to be mounted on separate posts. Supplemental signs such as Speed Advisory plates are to be mounted on the same post as the primary sign. *Do not mount signs on trees or other signs.* Posts may be wood, metal, carsonite or similar material. Where sign supports cannot be sufficiently offset from the road edge, supports will meet breakaway standards. Single wood posts with less than 24 square inches do not require breakaway design.

TEMPORARY/PORTABLE SUPPORTS: Portable supports may be used for short-term, short-duration, and mobile conditions. MUTCD defines this time period as one work shift, 12 hours or less. All portable supports must meet MUTCD standards, including breakaway. These must be a minimum of 1 foot above the road surface or more if visibility requires it.

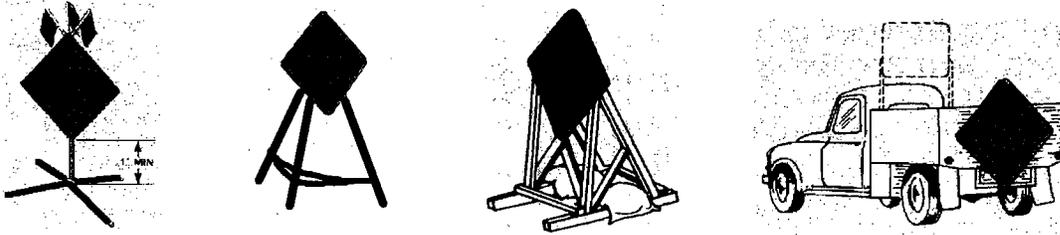


Figure 3: Examples of Temporary/Portable Supports

SIGNS

The following signs meet the intent of Timber Sale Contract Provision B6.33, SAFETY.
This is not a complete listing of signs that may be needed.



FG20-1-48*



FG20-2-48



FG20-3-42*



FG20-3a-42



FW22-3-30



FW20-1-30*



W21-3-30*



FW21-4a-30



FW11-7-24



W22-1-36*



FW8-6-24



FW11-9a-24



W7-3a-24*



W13-1-18**



W20-7aP-24*

* Specify Distance

** Specify Speed



BM-L-O



BM-R-O

Barricade Markers (See MUTCD for length and stripe size)

C6.331 - SAFETY (HELICOPTER OPERATIONS). (10/04) Where helicopter yarding operations are being conducted over or in close proximity to roads and trails shown on Sale Area Map, Purchaser shall furnish and post flaggers during active yarding operations to prevent the passage of vehicular or pedestrian traffic beneath such yarding operations.

Purchaser shall provide radio communications between helicopter yarding operations and the flaggers.

Traffic shall be allowed to pass through operation areas at time intervals not to exceed thirty minutes unless otherwise authorized in writing by Forest Service.

Purchaser shall provide and place at locations specified by Forest Service signs warning potential users of roads and trails in the helicopter operating area that traffic delays can be expected during operating hours. Sign size, wording, and construction shall be in accordance with standard warning signs specified in the Manual of Uniform Traffic Control Devices.

C6.332 - SAFETY (TIMBER HAULING). (10/04) Purchaser shall secure all products transported by truck with at least two chain or cable wrappers over the load, such wrappers being securely fastened to effectively contain every bolt or log in at least two places.

C6.339 - ACCIDENT AND INJURY NOTIFICATION (4/05)

Purchaser shall notify Forest Service of any lost time personal injury accident or any accident or vandalism resulting in personal property damage over \$400 in value that occurs as a result of or is associated with Purchaser's Operations.

Purchaser shall notify Forest Service within 8 hours of any personal injury accident. For vandalism and personal property accidents, Purchaser shall notify Forest Service at the same time notification is given to the state and local law enforcement authorities.

Purchaser shall take all reasonable measures after an accident or vandalism event to preserve the scene of the incident and provide information to facilitate a Forest Service investigation.

The method of notification shall be agreed to in writing at the prework conference required by provision C6.10.

C6.351 # - WASHING EQUIPMENT. (7/07) In order to prevent the spread of noxious weeds into the Sale Area, Purchaser shall be required to clean all "Off-Road Equipment" prior to entry on to the Sale Area. This cleaning shall remove all soil, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Only logging and construction equipment so cleaned and inspected by the Forest Service will be allowed to operate within the Sale Area. All subsequent move-ins of equipment to the Sale Area shall be treated in the same manner as the initial move in. For purposes of this provision, "Off-Road Equipment" includes all logging and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

Purchaser shall employ whatever cleaning methods are necessary to ensure that Off-Road Equipment is free of noxious weeds. Equipment shall be considered free of soil, seed, and other such debris when a visual inspection does not disclose such material. Disassembly of equipment components or specialized inspection tools is not required.

In order to prevent the spread of noxious weed species N/A the Sale Area, Purchaser shall be required to clean all off-road logging and construction equipment that operates in N/A prior to the equipment leaving N/A. Purchaser and Forest Service shall agree on methods of cleaning, locations for the cleaning, and control of off-site impacts, if any.

Unless otherwise agreed, Purchaser shall give the Forest Service at least 24 hours notice when equipment is ready for inspection. Notification will include an agreed upon location where the equipment will be available for inspection by the forest service.

New infestations of noxious weeds, of concern to Forest Service and identified by either Purchaser or Forest Service, on the Sale Area or on the haul route, shall be promptly reported to the other party. Purchaser and Forest

Service shall agree on treatment methods to reduce or stop the spread of noxious weeds when new infestations are found. A current list of noxious weeds of concern to Forest Service is available at each Forest Service office.

C6.4# - CONDUCT OF LOGGING. (10/82) Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures:

Cutting Unit	Conduct of Logging
2,3,4,5,6,7,15,16,17,18	Trees shall be felled, insofar as safety permits, to angle in the direction of skidding.
2,3,4,5,6,7,15,16,17,18	Purchaser and Forest Service will agree on felling lead at the time of approval of tractor roads/skyline corridors.
3,4,5,6,17,18	Tractor skid roads will be located, approved, (and constructed) in advance of falling.
3,4,5,6, 17,18	Logs shall be tractor skidded with the leading end free of the ground.
3,4,5,6,17,18	Tractors shall be restricted to approved skid roads.
3,4,5,6,17,18	Tractor skid roads shall be no less than 100 feet apart, except where converging.
2,3,4,5,6,7,15,16,17,18	Trees designated for cutting and/or logs will be left as rub trees along tractor skid roads/skyline corridors as needed to protect young growth and leave trees.
3,4,5,6,17,18	Bucking of windfalls and down material across skid road location is required in advance of construction.
2,3,4,5,6,7, 15,16,17,18	Except for lateral yarding, logs shall be yarded with the leading end free of the ground.
2,3,4,5,6,7,15,16,17,18	The skyline logging system shall provide for lateral yarding distance up to 200 feet. The carriage must maintain a fixed position on the skyline while lateral yarding. During the lateral yarding phase, logs shall be yarded along a path which minimizes damage to residual trees.

2,3,4,5,6,7,15,16,17,18	Skyline corridors shall be located on the ground and approved in advance of felling.
2,3,4,5,6,7,15,16,17,18	The location of all skyline corridors shall be approved by Forest Service in advance of felling trees in corridors or the adjacent timber.
2,3,4,5,6,7,15,16,17,18	Skyline corridors shall have only those trees cut that are necessary to allow the safe free passage of the carriage and turn of logs. Width of skyline corridors shall be kept to a practicable minimum consistent with the related silvicultural prescription.
2,3,4,5,6,7,15,16,17,18	Notwithstanding other designations for cutting, all trees used to support multispans shall be left uncut.
2,3,4,5,6,7,15,16,17,18	When setting where it is not possible to suspend the leading end of the log during inhaul, an intermediate support will be required. The support must be sufficient to suspend the leading end of the turn as the carriage traverses the skyline.

4,5,17,18

Optional Logging Systems: In those portions of Cutting Units designated as "TLM" (Off Road Skyline Yarder (Tracked Line Machine) with Tractor Swing) on the Sale Area Map. An Off Road Skyline Yarder consists of an excavator configured with a drum and tower assembly capable of skyline yarding an average distance of 600 feet, a log-handling boom and a tracked undercarriage. The machine will have a maximum track width of 10 feet, capable of traveling over the natural terrain without excavation. A tractor swing will be used to move the logs from the log landing to the road.

17 & 18

Tractor Swing: A tractor swing is required. The tractor must be capable of keeping the leading edge of the log suspended above the ground. The location of swing tractor roads and any off road skyline yarder trails must be located on the ground and approved in advance of use.

C6.406# - SITE CONDITION. (10/01) Unless otherwise agreed in writing, in Cutting Units 2,3,4,5,6,7,15,16,17,18, Timber Subject to Agreement under C2.11# (15H, 16H, and 17H) the following site condition is required:

A minimum of 17 tons (> 3 inch in diameter) and a maximum of 33 tons of woody material will be left evenly distributed on each acre.

Purchaser may be required to remove limbs and tops prior to skidding or yarding or return them to the area after skidding or yarding in order to meet the minimum requirement. If the maximum requirement is not met through normal logging operations, slash will be treated in accordance with specifications listed in the Hazard Reduction and Site Preparation Plan.

C6.41# - SPECIAL FELLING REQUIREMENTS. (10/04) Unless otherwise agreed in writing, the following special requirements shall be met in felling timber designated for cutting:

Cutting Unit	Item or Area to be protected	Protection Measure
Ground Bas portions of Units 3,4,5,6,7,15,16,17,18 and Timber Subject to Agreement under C2.11# (15H,16H, and 17H)	Soil	Mechanical felling will be approved in advance. Conditions apply only if the activities are operated on sufficient snow, frozen ground or a slash mat to prevent ground disturbance or compaction.

C6.422 - HELICOPTER LANDING LOCATION AND CONSTRUCTION. (5/76) All helispots, heliports, support areas, and other helicopter landing areas shall be located and constructed only as approved by Forest Service in writing.

Those specified landing and service areas shown on Sale Area Map are approved and shall be constructed in accordance with plans and specifications attached hereto.

Landing areas other than those specified on Sale Area Map will be considered for approval under the following conditions:

- A. The location and extent of landing area are staked on the ground. The extent or limits shall include the total area of excavation and fill, if any.
- B. The clearing needed outside the constructed landing area needed for takeoffs and landings are flagged or otherwise designated.
- C. Plans are made to dispose of clearing and landing construction slash and debris.

Landing areas shall be constructed and rock surfaced, if necessary, in such a manner that helicopters, log handling equipment, and service or support equipment are fully supported during Normal Operating Season.

C6.6 - EROSION PREVENTION AND CONTROL. (10/04)

Unless otherwise agreed in writing, Purchaser shall complete erosion prevention and control work required in section B6.6, including Streamcourse protection, within 15 calendar days after completion of skidding and/or yarding operations for each landing.

Designation of on the ground work shall be done as promptly as feasible unless it is agreed that the location of such work can be established without marking on the ground.

During periods of accelerated water runoff, especially during the spring runoff and periods of heavy rainfall, Purchaser shall inspect and open culverts and drainage structures, construct special cross ditches for road runoff, and take other reasonable measures needed to prevent soil erosion and siltation of streams.

When operations are active outside the Normal Operating Season defined in A16, erosion control work will be kept current and will be completed as soon as practicable.

C6.601# - EROSION CONTROL SEEDING. (3/07) Following completion of skidding and yarding operations in an area, Purchaser shall seed and fertilize all exposed areas of raw soil on skid trails, landings, firebreaks, slides, slumps, Temporary Roads and traveled ways of National Forest system roads scheduled for stabilization by Purchaser after operations. Special Provision C5.419# - SYSTEM ROAD STABILIZATION contains a list of the roads requiring seeding and fertilizing.

Soil on areas to be seeded shall be left in a roughened condition favorable to the retention and germination of the seed or as specified in Special Provision C6.633# - TEMPORARY ROAD, SKID TRAIL/SKID ROAD AND LANDING SCARIFICATION.

Seed and fertilizer shall be spread evenly at the rate of 23 pounds of seed and 300 pounds of fertilizer per acre. When fertilizer and seed are applied in separate operations, the second operation shall be carried out within 72 hours of the first.

Application shall be during the period May 15 to June 30 and September 1 to October 31 and under the above specified conditions unless otherwise approved.

The kinds and amounts of seed to be sown in terms of pure live seed (PLS) shall be:

Species of Seed	PLS Pounds per acre
Slender Wheatgrass "Highlander" or "Pryor"	3
Mt. Brome "Bromar"	4
Streambank Wheatgrass "Sodar"	4
Sheep fescue "Durar" (<i>Festuca ovina</i>)	5
White Dutch Glover or Alsike Clover (<i>Tirfolium hybridum</i>)	3
Annual rye (<i>Lolium multiflorum</i>)	4
Total	23

Purchaser shall provide to the Forest Service:

1. Blue tags, or copies of blue tags from each seed lot used in the specified mix. Only certified, blue-tagged seed shall be used. The blue tag represents a field certification and serves as evidence of the genetic purity and varietal identity of the seed contained in the seed lot.
2. Labels which indicate the percentage composition of the various species in the seed mix.
3. Copies of Seed Analysis Reports from a certified seed analyst for each seed lot used in the specified mix. Purchaser will obtain this report from the seed provider. Seed Analysis Reports must include at a minimum, content of any noxious weed seeds listed on the current "State of Idaho Noxious Weeds List".

Only after the Forest Service has verified that this report indicates the seed does not contain any weeds on the current "State of Idaho Noxious Weeds List", will the seed be accepted and used.

The following kinds and amounts of standard commercial fertilizer shall be used with guaranteed analysis of contents clearly marked on containers:

Type of Fertilizer	Pounds Per Acre
16-16-16	300

C6.661 - CURRENT OPERATING AREAS. (10/04) Unless waived in writing by Forest Service, Purchaser shall remove accumulations of slash and logging debris in operating areas from system roads prior to the end of Normal Operating Season. Slash and logging debris in excess of three (3) feet in length and three (3) inches in diameter shall not remain on backslope, in ditches, or on traveled way, shoulders or turnouts. Debris shall be scattered downslope from the roadbed, avoiding any concentrations. When weather permits operation after Normal Operating Season, Purchaser shall keep such work on any additional disturbed areas as current as practicable.

C6.7 - HAZARD REDUCTION AND SITE PREPARATION. (3/89) Purchaser's timing of product removal, hazard reduction and site preparation shall not unnecessarily delay Forest Service slash disposal, site preparation or reforestation. Purchaser shall perform hazard reduction and site preparation work in accordance with the Hazard Reduction and Site Preparation Plan and Map which are attached hereto and made a part hereof. Such work is in addition to Required Deposits for slash disposal.

Cedar Side Boards C6.7# (Purchaser Requirements)

(a) Unless otherwise agreed in writing, Purchaser shall perform the following work described below and as shown on the Hazard Reduction and Site Preparation Map.

(b) Forest Service and Purchaser shall jointly develop a schedule for completion of slash treatment on the various portions of the sale area.

(1) Landing Cleanup, Entire Sale Area

A landing is considered a place where any logs or products are gathered for loading. Logs not meeting utilization standards accumulated at landings shall be (decked) or (returned to the cutting unit) as agreed in writing by the Forest Service. All slash accumulated at landings shall be piled.

Piles shall be reasonably compact and free of soil to facilitate burning. Piles will not be less than 8 feet in height. Piles shall be of a size and location which will not impair road use or result in damage to residual timber. Piles shall be located at least 20 feet from residual timber. Piles shall not be more than 30 feet long.

All objects which extend more than 8 feet in any direction from the windrow or pile will be cut off and returned to the windrow or pile.

The Piling of landings will be done by a Grapple-type machine.

(2) Lopping, Units 3, 4, 5, 6, 7, 15, 16, 17, 18 , and Timber Subject to Agreement under C2.11# (15H, 16H, 17H)

Prior to skidding operations, Purchaser shall cut all exposed limbs from included Timber. Such limbing shall be done to a top diameter of approximately 4 inches diameter inside bark, at which point the top will be cut from the remainder of the stem. Limbs shall be severed from the remaining top and all limbs cut from the top and boles will not extend over 1.5 feet in height above the ground.

(3) Grapple Piling, Units 5, 7, 15, 16, 17, 18, and Timber Subject to Agreement under C2.11# (15H, 16H). See Hazard Reduction and Site Preparation Map

Purchaser shall machine pile all slash meeting the following specifications in cutting units or portions of cutting units as shown on the Hazard Reduction and Site Preparation Map. Piles shall be compact, free of soil and of sufficient size to facilitate burning. No stumps shall be placed in piles. Piles will be a minimum height of 6 feet and maximum width of 20 feet and shall be placed no closer than 10 feet from the outside perimeter of the unit, system roads, wet areas, or other areas designated on the ground by the Forest Service. No pile or windrow shall be closer than 10 feet from any standing reserve trees. **To benefit nutrient recycling, all tops will be left in the units for a minimum of one Wet Season.** A Wet season is defined as the following: A time frame that identifies the length of leaving tops and limbs onsite for nutrient retention and soil productivity. It should consist of a minimum of 4 to 6 months, not including summer months from July through September.

All material extending more than 10 feet beyond the outside perimeter of the pile shall be trimmed off and returned to the pile. Slash in concentrations that are so low that it would require several moves to gather material for an acceptable pile need not be piled.

Purchaser will leave a minimum of 6 pieces and a maximum of 12 pieces of woody material over 6 inches in diameter on the large end and 6 feet in length scattered over each acre. Residual wood material exceeding 10 inches in diameter will not be piled, but may need to be sawed into sizes that can be moved to allow access to other portions of the unit.

All piled material shall be placed parallel in the piles as much as practicable.

The crawler-type excavator shall be equipped with a grapple or a bucket with a thumb, or a combination of both. The machine must be capable of reaching 20 feet either side of the machine and be able to pile slash at least 15 feet in height. The grapple or bucket must be capable of grasping slash 2 inches to 30 inches in diameter. The excavator must be capable of operating on 45 percent side slopes.

Traveling over the slash mat preferentially using existing skid trails if present, and relying upon the reach of the boom to pile parallel to the path of travel.

(4) Hand Fireline Unit 2

Firebreaks shall be constructed by hand around the perimeter of Cutting Units as shown on the Purchaser Hazard Reduction and Site Preparation Map. A fuelbreak shall be cleared of all vegetative debris larger than 1 inch in diameter and 3 feet long for a minimum width of 8 feet. All vegetative material removed from the firebreak shall be scattered within the unit and not windrowed or otherwise concentrated adjacent to the fuelbreak. Large fuels, such as chunks of logs, shall be placed in line laying up and down the slope so they will not roll down the slope during burning operations. On the exterior edge of the fuelbreak a fireline will be constructed so that a continuous mineral soil line not less than 1 foot in width shall be cleared to completely expose mineral soil. All material removed in construction of the fireline shall be placed outside of the fireline and scattered so concentrations next to the fireline do not exist.

Firelines installed along the bottom of slopes over 35 percent will be "V" shaped, at least 12 inches deep, with dirt thrown over the duff and debris just outside the mineral soil line.

C6.71 - CHANGE IN SLASH TREATMENTS. (3/90) Slash treatment measures required in accordance with the Hazard Reduction and Site Preparation Plan and Map may be changed upon written agreement. The Forest Service shall determine the current cost of performing the work to be deleted and the work to be added. When the cost of work deleted exceeds the cost of work added, the agreement shall provide for a lump sum payment to the Forest Service for the amount of the difference.

C6.711 - BURNING BY PURCHASER. (10/79) Purchaser shall obtain a written permit from Forest Service before burning any camp refuse, brush, slash or construction debris at any time throughout the year. The terms of the permit will set forth:

- A. Area or location where burning is permitted.
- B. Material to be burned.
- C. Safeguards, including help and equipment to control the fire.
- D. Special precautions to be taken before burning.
 - 1) Control action needed until the fire is out.

C6.822# - PRESENTATION FOR WEIGHT SCALING. (3/07) To facilitate the requirement of B6.82 that loads be presented so that they may be weighed in an economical and safe manner, and to aid in the accountability requirements of C6.840 or C6.848, Purchaser, unless otherwise agreed in writing, shall:

- A. Utilize scales that meet the standard for commercial vehicle scales defined in the National Bureau of Standards Handbook 44, current edition.

B. Weigh all loads on scales currently certified by the State in which weighed. Scales must have a current inspection tag or seal posted which shows the date of the most recent test by the State weights and measures agency. No load shall be presented for weighing that weighs more than the certified capacity of the scales in use. Each load shall be weighed as a single unit with the gross and tare weights stamped and recorded by an automatic recording device on the scales. In addition to the gross weight and the tare weight of the load, Purchaser shall record the following information on each weight slip:

- a. Sale name
- b. Load Removal Receipt number
- c. Date and time weighed

C. Maintain load accountability from the Sale Area to point of weighing. In so doing, the load of products shall remain intact while in transit. Products accidentally lost in transit shall be promptly identified by Load Removal Receipt number and sale designation. Purchaser shall, within 48 hours, load out such lost products and present them for weighing or make other arrangements acceptable to Forest Service.

D. Clearly and legibly paint the last three digits of the Load Removal Receipt in large numbers in black colored paint on the back end of at least three (3) logs of every load transported from the Sale Area

C6.823 - VOLUME DETERMINATION. (10/04) Volume determination shall be based on Weight Measurement unless otherwise agreed. Products shall be weighed on certified scales at locations agreed to by Purchaser and Forest Service. The weight ticket, showing sale name, truck ticket number, date and time weighed, and the gross and tare weights, shall be attached to the Truck Ticket Scaler Receipt/Permit and placed in the location(s) as designated by the Forest Service. Upon request, Purchaser shall furnish Forest Service a copy of the scales certification.

In the event of weight scale equipment breakdown or suspension of use for other reasons, hauling will be suspended until Purchaser and Contracting Officer agree to an alternate weighing location.

If load removal receipts or weigh tickets are not provided for any reason, Forest Service shall use data from the records during the period in which loss occurred to determine weight of load(s). The weights of such load(s) shall be deemed equal to the load with the heaviest net weight presented during the payment period in which the loss occurred.

Payment for lost products may not be required if Forest Service determines that the weight of such lost products involved is small and justified by existing conditions.

C6.840- WEIGHT ACCOUNTABILITY. (10/04) Products shall be accounted for as follows:

A. Requirements Applicable to Purchaser Accountability Obligations

a. Where Purchaser's product accountability responsibilities are concerned, all operations performed by Purchaser's employees, agents, contractors, subcontractors, their employees or agents, Purchaser's obligations shall be the same as if performance is by Purchaser.

B. Requirements Applicable to Woods Receipt Ticket Book

a. Forest Service will issue to Purchaser or designated representative(s) serially numbered Woods Receipt ticket books for use only on this sale. Woods Receipt ticket books whether used or unused shall be accountable property of Forest Service and shall be returned to issuing District Ranger in accordance with instructions contained on cover of each book.

b. Purchaser shall require:

1. All receipts be filled out in ink by an individual named in writing other than the truck driver and be attached to load before products are hauled from immediate vicinity of or adjacent to location where loading is done showing date loaded, brand, sale name, and destination where products will be weighed. Receipts shall be attached in accordance with instructions on inside cover of Woods Receipt ticket book.
2. Before products are hauled, truck driver to sign legal signature in ink on Woods Receipt stub.
3. Purchaser shall assure that all used Scaler Receipts are returned to the issuing Contracting Officer or as otherwise agreed.

C. Requirements Applicable to Weight Slips

a. Purchaser shall assure that:

1. All products removed are presented for weighing at agreed to locations and that gross and tare weights are obtained on certified scales.
- 2) That weight slips for each load are attached to proper Scaler Receipt and deposited in accordance with procedures established by the Forest Service.

C6.849 - ROUTE OF HAUL. (10/04) Within 60 days of date Forest Service executes and returns contract and as part of the annual Operating schedule, Purchaser shall furnish Forest Service a map and a written general plan for hauling Included Timber from Sale Area. The plan shall set forth:

- A. Designated haul route(s)
- B. Designated weight scales

Forest Service written approval of the haul route(s) and weight scales is prerequisite to commencement of Purchaser's operations. The designated weight scales must be certified to be acceptable by Forest Service. The Purchaser may be required to furnish Forest Service a copy of certification upon request.

Upon advance written agreement, other haul routes may be approved. All products removed from Sale Area shall be transported over the designated routes of haul. Purchaser shall notify Forest Service when a load of products, after leaving Sale Area, will be delayed for more than 12 hours in reaching weighing location.

Purchaser shall require truck drivers to stop, if requested by the Forest Service, for accountability checks when products are in transit from Sale Area to the designated weighing location.

Locations for accountability checks shall be agreed to by Purchaser and Forest Service in advance of haul. Such locations shall be established only in areas where it is safe to stop trucks.

Forest Service will notify Purchaser of the methods to be used to alert truck drivers of an impending stop.

C6.929- REQUIREMENT FOR FOREST PRACTICES ACT NOTIFICATION. (10/01) To meet the requirements of the State of Idaho Forest Practices Act, as it relates to the Clean Water Act, the Purchaser shall, at time of execution of this contract, complete the notification forms prescribed by the Idaho Department of Lands and submit them to the Contracting Officer for acceptance. The original will be retained by the Forest Service with a copy provided to the Purchaser. The Contracting Officer will mail the remaining copies to:

Idaho Department of State Lands
3780 Industrial Avenue South
Coeur d'Alene, ID 83815-8918

C7.2 - NORMAL PRECAUTIONS. (2/02) Specific fire precautionary measures are set forth below. Upon request of Forest Service, Purchaser shall permit and provide an individual to assist in periodic testing and inspection of required fire equipment. Purchaser shall promptly remedy deficiencies found through such inspecting and testing.

The following requirements shall apply during the period stated in A12 and during other such periods as specified by Forest Service.

A. Fire Extinguishers and Tools Required with Equipment. Each unit of powered equipment used in connection with this sale shall be equipped with serviceable tools and fire extinguishers acceptable to Forest Service as follows:

1. STATIONARY EQUIPMENT. Examples include yarders, log loaders, Hahn Harvester, stroke delimiters, roadside/landing based processors, whole tree chippers, rock crusher, asphalt plant, or other equipment working at fixed locations such as a landing or rock crushing site.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating.

One - 5-gallon standard galvanized metal, fiber glass or rubberized backpack water container, with hand pump attached, to be filled at all times.

Weatherproofed tool box marked "FIRE ONLY," equipped with a hasp, kept sealed, and containing:

One - Axe, double bit, 3.5#

Two - Shovels (round point #0 lady or equal)

Two - Pulaskis

The tool box shall be mounted on equipment, if feasible, unless another location is agreed to in writing. The tool box shall be within 100 feet of the designated machine at all times when operating. Only one (1) tool box is required at each active fixed location site.

2. MOBILE EQUIPMENT. Examples include crawler tractors, rubber-tire skidders, soft-track skidders, forwarders, feller-bunchers, feller-processors, excavators, front-end loaders, back-hoes, scrapers, and motor graders.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with a 4 B.C. or higher rating.

One - Shovel (round point #0 lady or equal). For equipping mobile equipment, an acceptable substitute is a "D-handle" round point shovel with a minimum 27-inch handle and a minimum 8- by 11-inch blade.

One - Axe, double bit, 3.5#, or one pulaski.

3. SUPPORT EQUIPMENT. Examples include trucks, low-boys, busses, pickups, panels, automobiles, service trucks, or similar equipment used in transporting logs, people, equipment, and/or materials.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating

One - Shovel (round point #0 lady or equal)

One - Axe, 2# or over, 26-inch minimum length, or one pulaski

One - Bucket or similar water container (at least 1-gallon capacity)

4. POWER SAWS

One - Shovel (round point #0 lady or equal). Shovel shall be with gas containers and/or no more than 100 feet distance from where sawyer is working.

One - Fire extinguisher, containing not less than eight (8) ounces of extinguisher fluid or a dry chemical powder type of not less than one (1) pound capacity. The extinguisher shall be carried by the operator at all times.

Any fueling or refueling of a power saw shall only be done in an area which is free of or which has first been cleared of all material capable of carrying fire; such power saw shall be moved at least 10 feet from place of fueling before starting.

B. Fire Tools on Sale Area. Purchaser shall furnish and maintain in serviceable condition, in quantities and at locations to be designated by Forest Service, tool boxes, fire tools and other fire equipment to be used only for suppressing forest fires. Each tool box shall be weatherproofed and marked "TOOLS FOR FIRE ONLY" and kept sealed. These requirements are in addition to fire tool requirements for mobile, stationary, support or power saw equipment.

1. Special tool caches shall not be required when less than 20 people are employed on Sale Area, excluding logging truck drivers.

2. Operations employing more than 20 individuals on Sale Area, excluding truck drivers, shall furnish a tool cache with a minimum of one serviceable tool per person in the following configuration:

Axe, double bit, 3.5#, 10%

Shovels (round point #0 lady or equal), 45%

Pulaskis, 45%

C. Spark Arresters. Each internal combustion engine shall be provided with a spark arrester or spark arresting device approved by Forest Service. Exceptions where Forest Service may approve mufflers or other equipment in lieu of spark arresters qualified and rated under Forest Service standard 5100-1a are: (a) small multi-position engines, such as chain saws, shall meet Society of Automotive Engineers J335b standards, (b) passenger-carrying vehicles and light trucks may have baffle-type muffler with tail pipe, (c) heavy-duty trucks may have a vertical stack exhaust system with muffler, provided the exhaust stack extends above the cab of the vehicle, (d) an exhaust driven turbocharger is considered to be a satisfactory spark arrester. Internal combustion engine exhaust systems, arresters and other devices shall be properly installed and maintained.

D. Blasting. Fuse or prima cord shall not be used unless authorized in writing by Forest Service, with special precautions stated.

E. Smoking. Smoking shall not be permitted within logging operations except on surfaced or dirt roads, at landings, within closed vehicles, in camps or at other posted places. Smoking shall not be permitted while working or traveling on foot, within or through Sale Area.

F. Precautions for Stoves. Stovepipes on all temporary buildings, trailers, and tents using wood-burning stoves shall be equipped with roof jacks and serviceable spark arresters of mesh with openings no larger than 5/8 inch. All stovepipes, inside and out, shall not be closer than two (2) feet from any wood or other flammable material or one (1) foot if the combustible material is protected by a metal or asbestos shield.

G. Debris Around Buildings. The grounds around buildings, tents and other structures shall be kept free of flammable material for a distance of at least 15 feet from the wall of such structures.

H. Storage of Petroleum and Other Highly Inflammable Products. Gasoline, oil, grease, or other highly flammable material shall be stored either in a separate building or at a site where all combustible debris and vegetation is cleared away within a radius of 25 feet. Fire extinguishers and/or sand barrels may be required at such locations specified by Forest Service when unusually hazardous conditions exist.

I. Debris Burning and Warming Fires. Burning permits shall be required throughout the year for all debris burning fires. Lunch and warming fires may be allowed in fireproofed areas during periods of low fire danger as specified in the fire plan. Such fires shall not be left unattended.

J. Cable Logging. All tail blocks and corner blocks shall be of an accepted haulback design which prevents line fouling and used with line guards. Such blocks shall be located to prevent cables from rubbing against trees, snags, down logs or rock when operating.

Areas adjacent to blocks shall be cleared of flammable material within a 5-foot radius. One (1) shovel and one (1) pulaski shall be maintained within 10 feet of each block.

K. Emergency Measures. Additional measures and/or other special requirements necessary during periods of critical fire-weather conditions shall be included in the fire prevention and presuppression plan.

L. Welding. Welding and use of cutting torches or cutoff saws will be permitted only in areas that have been cleared or are free of all material capable of carrying fire. Flammable debris and vegetation must be removed from within a minimum 10-foot radius of all welding and cutting operations. A shovel and a 5-gallon standard backpack water container filled and with handpump attached shall be immediately available for use in the event of a fire start.

C7.201 - FIRE PRECAUTIONS (HELICOPTER). (2/05) In addition to Normal Precautions provided for in C7.2, Purchaser shall provide or take the following precautions or actions where helicopter yarding is specified or permitted.

A. Fire tools, including backpack pump and tool boxes, required at landings shall have a sling arrangement for immediate helicopter transportation of the tools to the vicinity of any fire within Sale Area. The sling arrangement shall not impede access to the tools.

B. Notify Forest Service immediately upon discovery of any fire in or adjacent to the operating area.

C. Store inflammable liquids (fuel) only in tank trucks or trailers specifically designed for storing and transporting liquid fuel or in stationary tanks securely bedded on skids or frames to prevent rolling or tipping. Fuel storage area shall be adequately diked with dirt to prevent fuel spillage or leakage from spreading beyond the diked area. Mobile fuel tanks (trailers or trucks) shall also be parked within a diked area.

Polyethylene, rubber or other flexible type fuel storage facilities will not be permitted on National Forest land.

D. Provide at fuel servicing operations fire extinguishers which have the following ratings based on the open hose discharge capacity, i.e., "broken hose" of the aircraft fueling system:

1. Where said capacity does not exceed 200 gallons per minute, at least one (1) approved extinguisher having a minimum rating of 20-B,

2. Where said capacity is in excess of 200 gallons per minute, but not over 350 gallons per minute, one (1) approved extinguisher having a minimum rating of 80-B,
3. Where said capacity is in excess of 350 gallons per minute, two (2) approved extinguishers, each having a minimum rating of 80-B.

Extinguishers of over 50 pounds gross weight shall be of the large diameter wheel type or be mounted on carts to provide mobility and ease of handling.

E. Provide a suitable helicopter water bucket which can be readily lifted and transported by the yarding helicopter to deliver water to a fire by dropping the water from the bucket by a remote gate release. The bucket shall be of a size capable of holding water equal in weight to 60 percent of the helicopter's external gross load as indicated in the Flight Operation Manual accompanying the helicopter and as approved by the Federal Aviation Administration for a standard day.

The bucket shall be located at the landing to which the helicopter is yarding logs and be ready for immediate use with a maximum hookup and get-away time of five (5) minutes. The bucket will either be kept full of water or retardant to the lift capacity of the aircraft at expected temperatures or a system provided acceptable to Forest Service, which has the capacity to fill the bucket within the 5-minute maximum hookup and get-away time.

Purchaser shall develop or provide a water source from which the required bucket can be hoverfilled at least three (3) times without resupply. The water source, natural or artificial, shall be within five (5) minutes, round trip, by helicopter from Sale Area.

At least once a month the water bucket will be checked by making at least one (1) hookup and drop to assure that it is in operating condition.

F. Every aircraft used in conjunction with Purchaser's Operations shall be equipped with an operable radio system. The radio system shall be capable of transmitting and receiving on VHF frequency 122.85 Megahertz (MHz) with a minimum output of 5 watts at the transmitter. The system shall be located and installed so that the pilot can operate it while flying. A shielded all-weather broad-band antenna shall be part of the system. Radio and antenna shall be properly installed and maintained.

Upon discovery or notification of a fire on the Sale Area, all aircraft pilots controlled by the Purchaser shall monitor VHF frequency 122.85 MHz within 5 miles of the fire and broadcast their intentions.

C8.66# – USE OF TIMBER. (4/04) (a) This contract is subject to the Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 USC 620, *et seq.*).

(b) Except for N/A determined pursuant to public hearing to be surplus, unprocessed Included Timber shall not be exported from the United States nor used in direct or indirect substitution for unprocessed timber exported from private lands by Purchaser or any person as defined in the Act (16 USC 620e).

(c) Timber in the following form will be considered unprocessed:

(i) Trees or portions of trees or other roundwood not processed to standards and specifications suitable for end product use;

(ii) Lumber, construction timbers, or cants intended for remanufacturing not meeting standards defined in the Act (16 USC 620e); and

(iii) Aspen or other pulpwood bolts exceeding 100 inches in length.

(d) Unless otherwise agreed in writing, unprocessed Included Timber shall be delivered to a domestic

processing facility and shall not be mixed with logs intended for export.

(e) Prior to award, during the life of this contract, and for a period of 3 years from Termination Date, Purchaser shall furnish to Forest Service, upon request, records showing the volume and geographic origin of unprocessed timber from private lands exported or sold for export by Purchaser or affiliates.

(f) Prior to delivering unprocessed Included Timber to another party, Purchaser shall require each buyer, exchangee, or recipient to execute an acceptable agreement that will:

(i) Identify the Federal origin of the timber;

(ii) Specify domestic processing for the timber involved;

(iii) Require the execution of such agreements between the parties to any subsequent transactions involving the timber;

(iv) Require that all hammer brands and/or yellow paint must remain on logs until they are either legally exported or domestically processed, whichever is applicable; and

(v) Otherwise comply with the requirements of the Act (16 USC 620d).

(g) No later than 10 days following the execution of any such agreement between Purchaser and another party, Purchaser shall furnish to Forest Service a copy of each such agreement. Purchaser shall retain, for 3 years from Termination Date, the records of all sales, exchanges, or dispositions of all Included Timber.

(h) Upon request, all records dealing with origin and disposition of Included Timber shall be made available to Contracting Officer.

(i) For breach of this Section, Forest Service may terminate this contract and take such other action as may be provided by statute or regulation, including the imposition of penalties. When terminated by Forest Service under this Section, Forest Service will not be liable for any Claim submitted by Purchaser relating to the termination.