

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
Overstory Removal Units (B2.33)		
Understory 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																			X		X		X		X		X		X		X		()						
102	Definitions																			X		X		X		X		X		X		X		X		4/85				
SPS 102	Definitions																			X		X		X		X		X		X		X		X		X		()		
103	Intent of Contract																			X		X		X		X		X		X		X		X		X		4/85		
104	Maintenance for Traffic																			X		X		X		X		X		X		X		X		X		4/85		
SPS 104	Maintenance for Traffic																			X		X		X		X		X		X		X		X		X		()		
106	Measurement & Payment																			X		X		X		X		X		X		X		X		X		4/85		
SPS 106	Measurement & Payment																			X		X		X		X		X		X		X		X		X		()		
173	Construction Staking, Location Line																			X		X		X		X		X		X		X		X		X		4/85		
SPS 173	Construction Staking, Location Line																			X		X		X		X		X		X		X		X		X		()		
201	Clearing & Grubbing																			X		X		X		X		X		X		X		X		X		4/85		
SPS 201	Clearing & Grubbing																			X		X		X		X		X		X		X		X		X		()		
SPS201A	Roadway Brushing																			X		X		X		X		X		X		X		X		X		()		
202	Removal of Structures & Obstructions																																						4/85	
SPS 202	Removal of Structures & Obstructions																																						(09/17/02)	
203	Excavation & Embankment																							X		X		X		X		X		X		X		4/85		
SPS 203	Excavation & Embankment																							X		X		X		X		X		X		X		()		
204	Soil Erosion & Pollution Control																			X		X		X		X		X		X		X		X		X		4/85		
SPS 204	Soil Erosion & Pollution Control																			X		X		X		X		X		X		X		X		X		()		
206A	Excavation for Culverts & Minor Structures																			X		X		X		X		X		X		X		X		X		4/85		
SPS 206A	Excavation for Culverts & Minor Structures																			X		X		X		X		X		X		X		X		X		()		
207	Developing Water Supply & Watering																																						4/85	
SPS 207	Developing Water Supply & Watering																																						()	
304	Aggregate Base & Surface Course																																						4/85	
SPS 304	Aggregate Base & Surface Course																																						()	
306	Reconditioning Existing Road																			X		X		X		X		X		X		X		X		X		4/85		
SPS 306	Reconditioning Existing Road																			X		X		X		X		X		X		X		X		X		()		
601	Mobilization																			X		X		X		X		X		X		X		X		X		4/85		
603	Metal Pipe																			X		X		X		X		X		X		X		X		X		4/85		
SPS 603	Metal Pipe																			X		X		X		X		X		X		X		X		X		()		
625	Seeding & Mulching																			X		X		X		X		X		X		X		X		X		4/85		
SPS 625	Seeding & Mulching																			X		X		X		X		X		X		X		X		X		()		
640	Road Closure Devices																																						(4/85)	
SPS 640	Road Closure Devices																																						()	
703	Aggregates																																						4/85	
707	Metal Pipe																			X		X		X		X		X		X		X		X		X		4/85		
713	Roadside Improvement Materials																																						4/85	
SPS 713	Roadside Improvement Materials																																						(4/96)	

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

Staking

Notes

Delete in entirety and add the following:

"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

Location

Survey Line

Delete in entirety and add the following:

"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 fee 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.

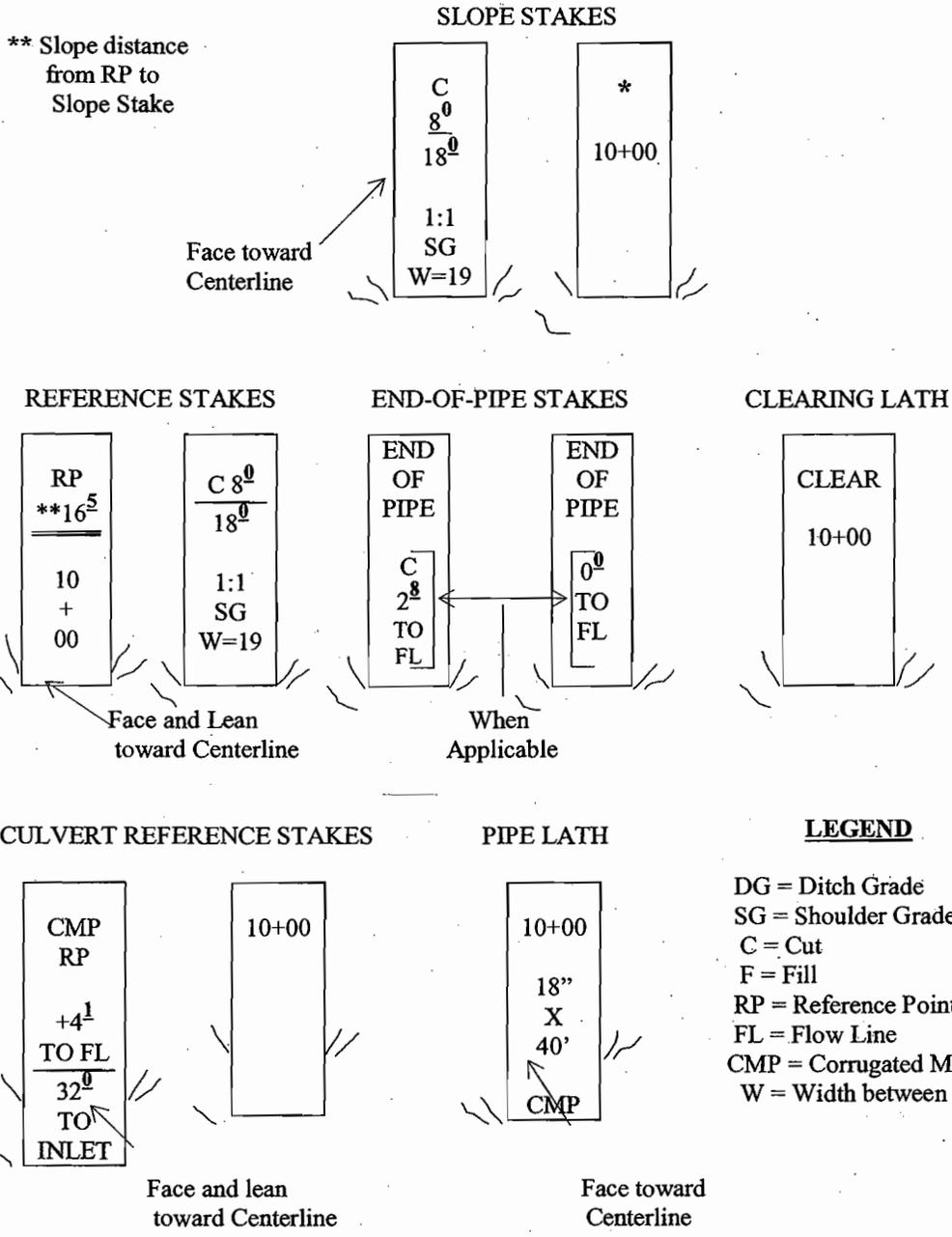


Figure 173 -1 Construction Stakes

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
Requirements

Delete the second sentence, last paragraph, and add:

"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
Joining Pipes

Replace the last sentence of the first paragraph with the following:

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

603.08
Backfilling

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

"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.

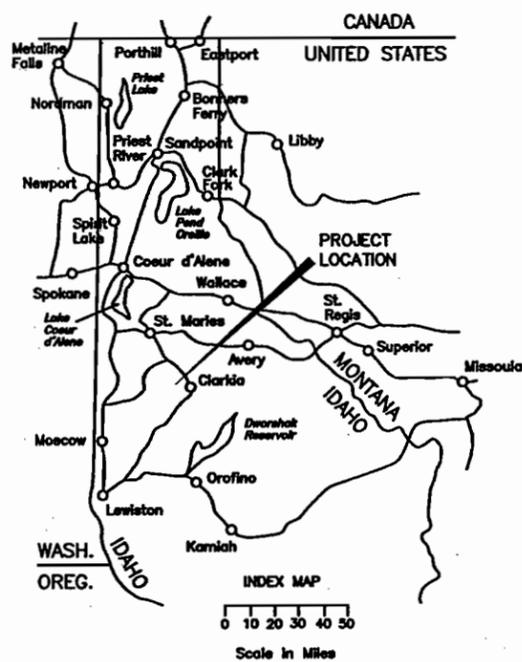
The road closure device shall be installed within 5 days from the time construction begins on the road where the device is required."

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

Cedar Side Boards

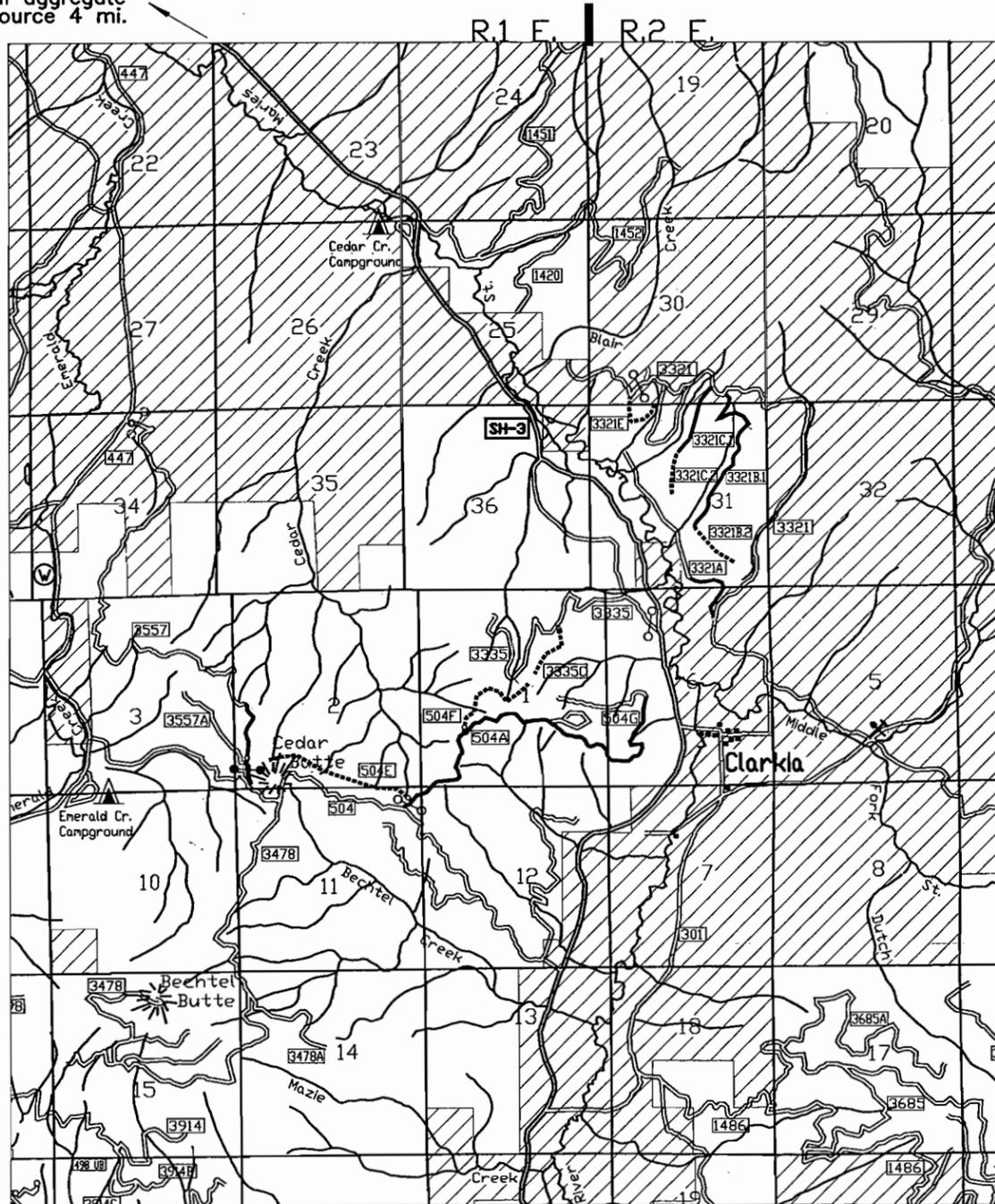
TIMBER SALE ROADS
 IDAHO PANHANDLE NATIONAL FORESTS
 St. JOE RANGER DISTRICT
 SHOSHONE COUNTY

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



LEGEND

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



to Moscow
 47 miles

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
	COUPLING BAND DETAILS
	ROAD CLOSURE GATE DETAIL



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

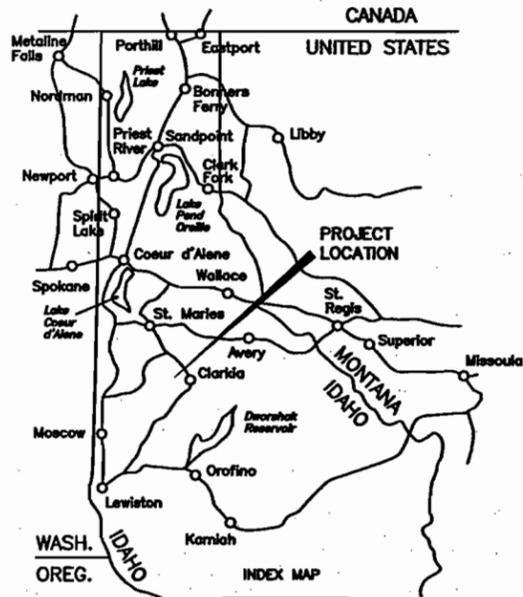
Approved: *[Signature]* 2/20/08
 District Ranger Date

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

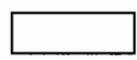
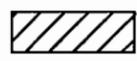
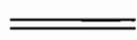
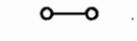
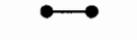
Cedar Side Boards

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

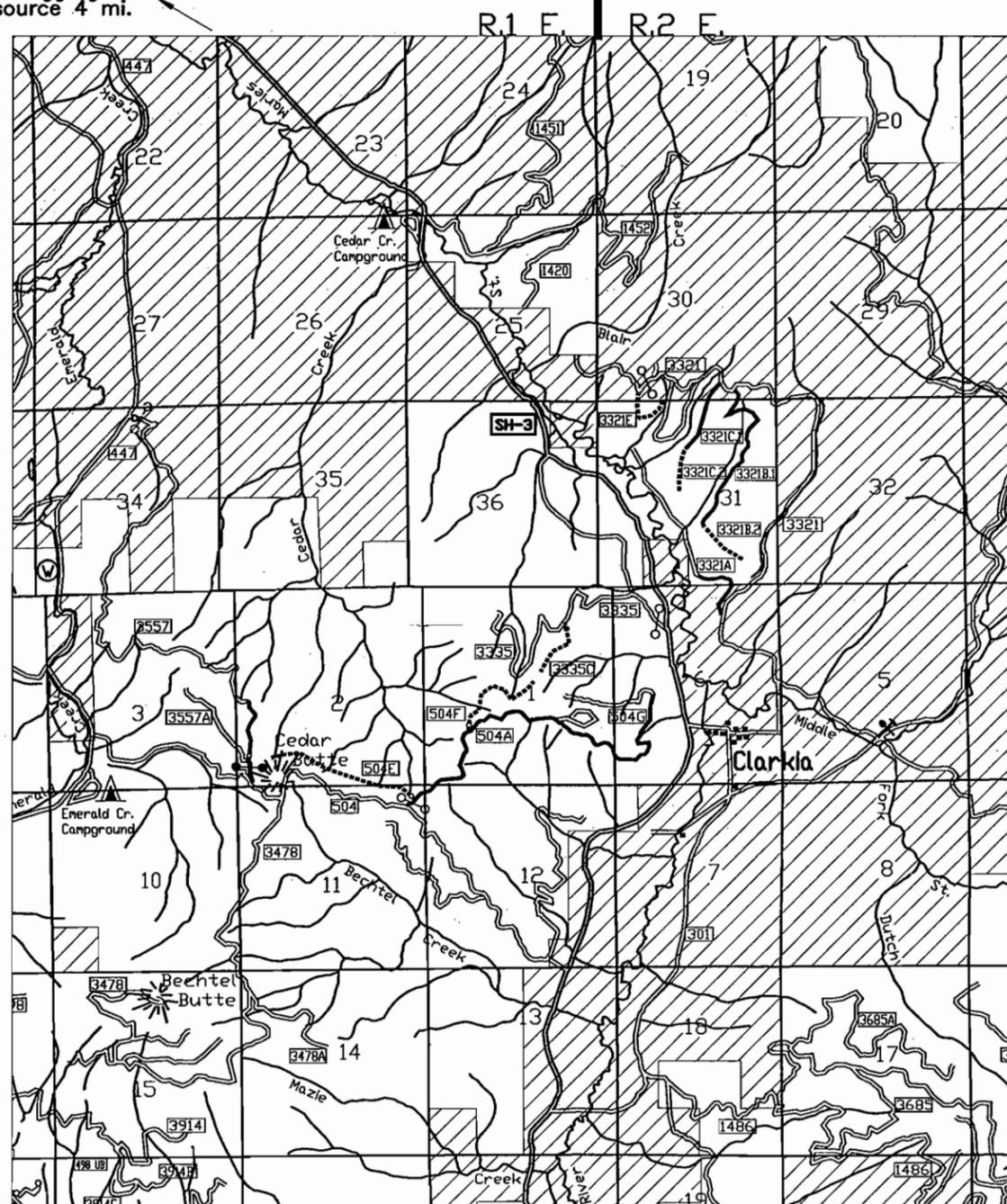
to St. Maries
 26.5 miles
 commercial aggregate
 source 4 mi.



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					0.33		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	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.

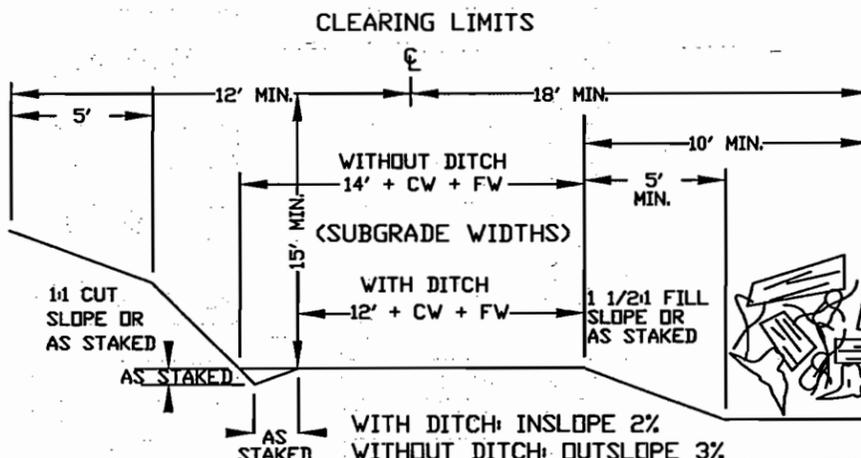
Construction Signing:

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 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

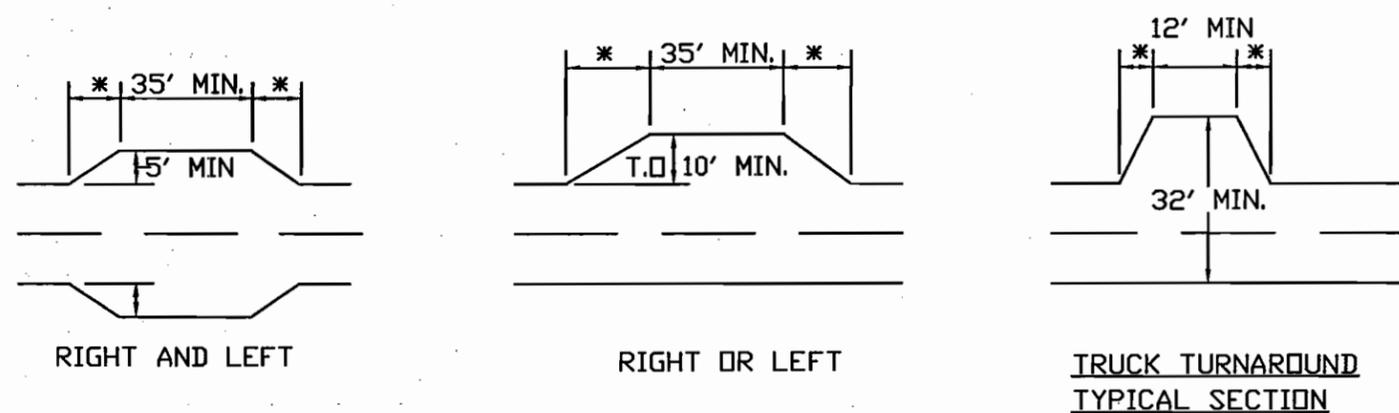
Rd 504E, Rd 504F, Rd. 3321B.2
Rd 3321C.2, Rd 3321E, Rd 3335C

NO SCALE

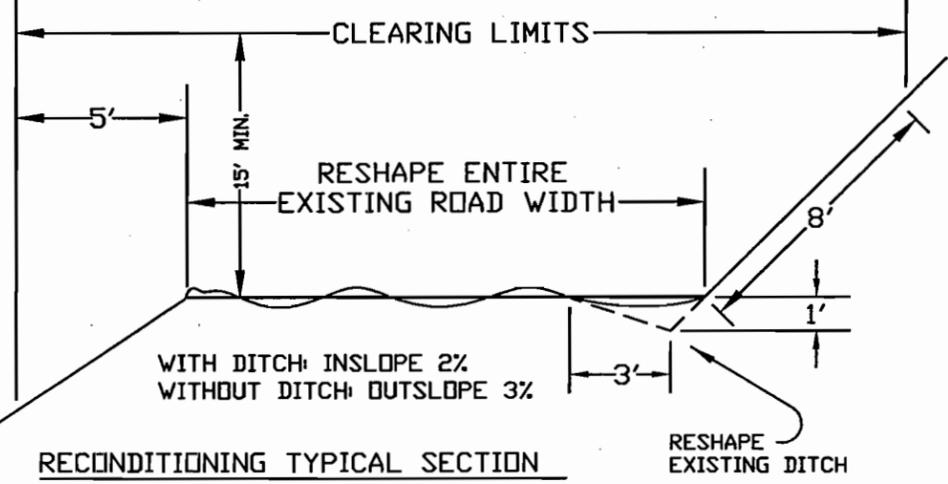
***IN AREAS WHERE FILL IS 5' OR LESS, THE HEIGHT OF PILE ABOVE SUBGRADE SHALL NOT EXCEED 10'. IN AREAS WHERE FILL IS GREATER THAN 5' THE HEIGHT OF PILE ABOVE SUBGRADE SHALL NOT EXCEED 5'.

All Roads
Design Speed = 10 MPH
Curve Widening = logtruck

TURNOUT TYPICAL SECTION



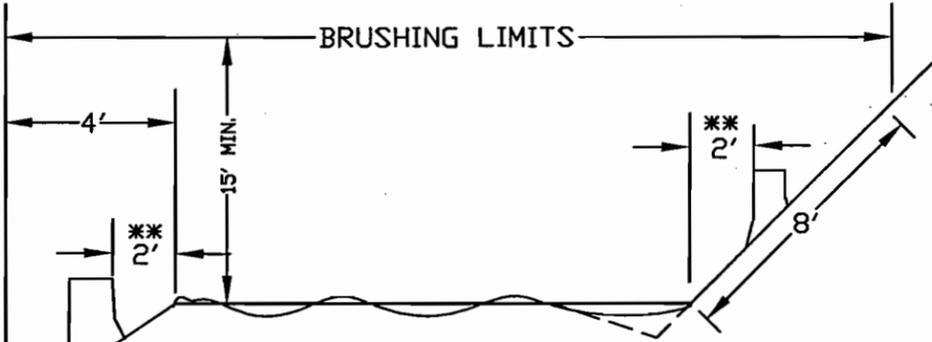
*AS STAKED



RECONDITIONING TYPICAL SECTION

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

NO SCALE

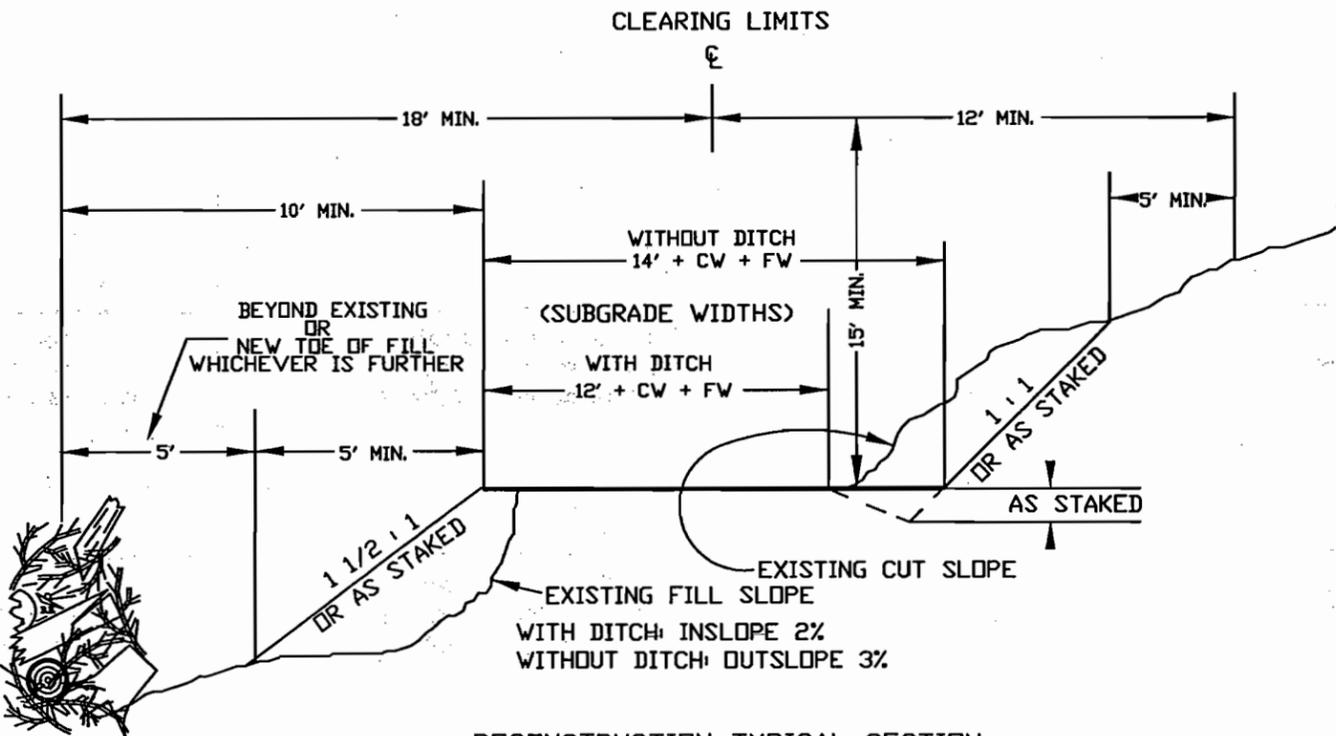


BRUSHING & RECONDITIONING TYPICAL SECTION

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

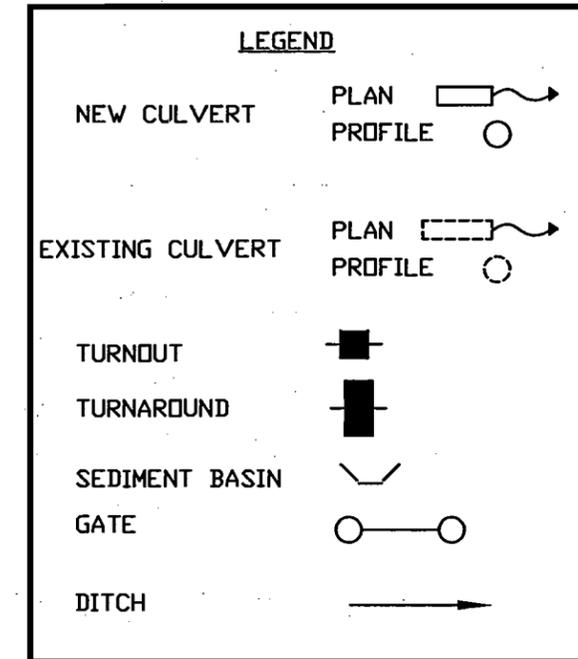
M.P.	Description
0.00	Jct w/ road 3321 (M.P. 3.35) Begin reconstruction Item 201(03) Clearing, 306(01) Reconditioning.
0.08	Install 18'X32' CMP, Item 603(01)18C.
0.35	Install 18'X32' CMP, Item 603(01)18C.
0.37	Existing CMP.
0.44	Jct Rd 3321C.2 Lt., End reconstruction.

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.



WITHOUT DITCH

WITH DITCH

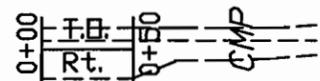
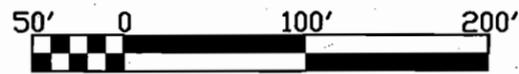
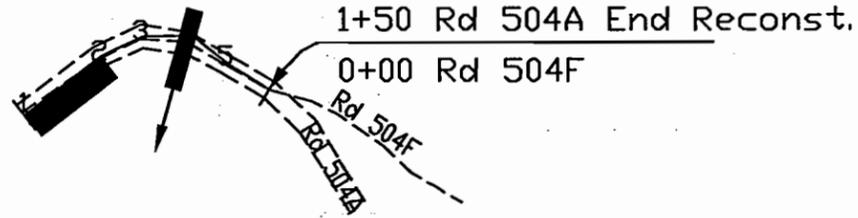
BASE AND SURFACE COURSE TYPICAL

***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



1010	0+00 Begin Reconstruction	1+25 Install 18" X 36'	1+50 End Reconst.						
1000									
990									

	0+00	1+00	2+00	3+00	4+00	5+00
Excavation (CY)	284					
Haul (sta yd)	56					
Clear (MI)	0.03					
Seed (ac)	0.16					

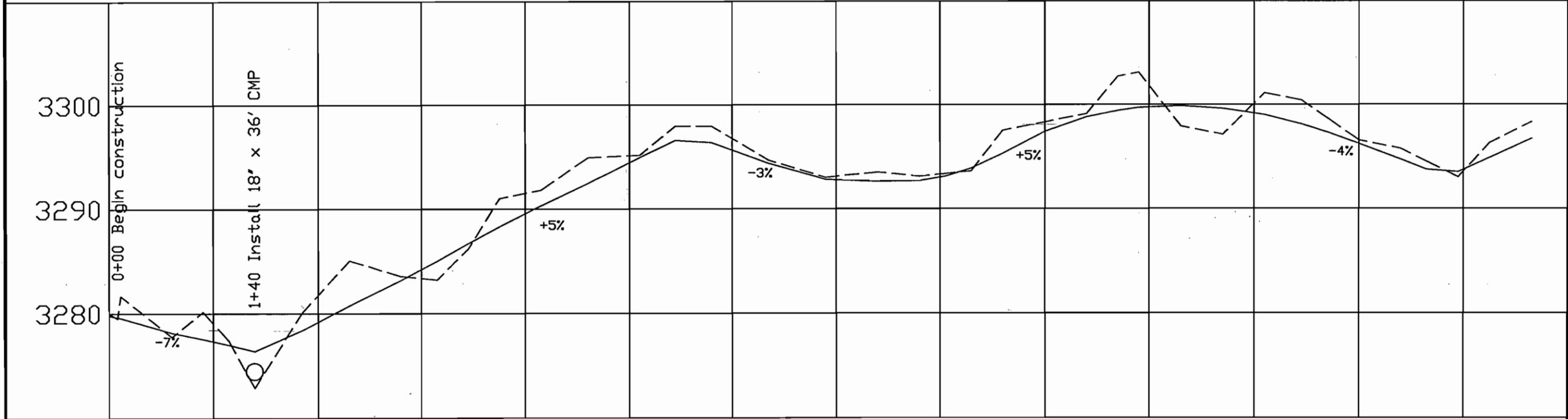
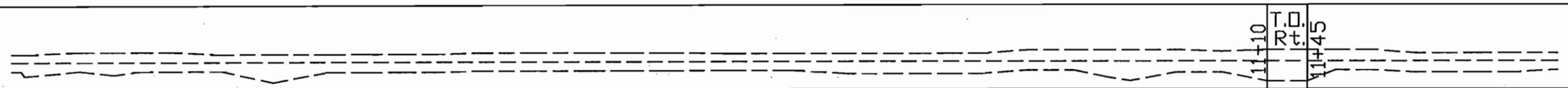
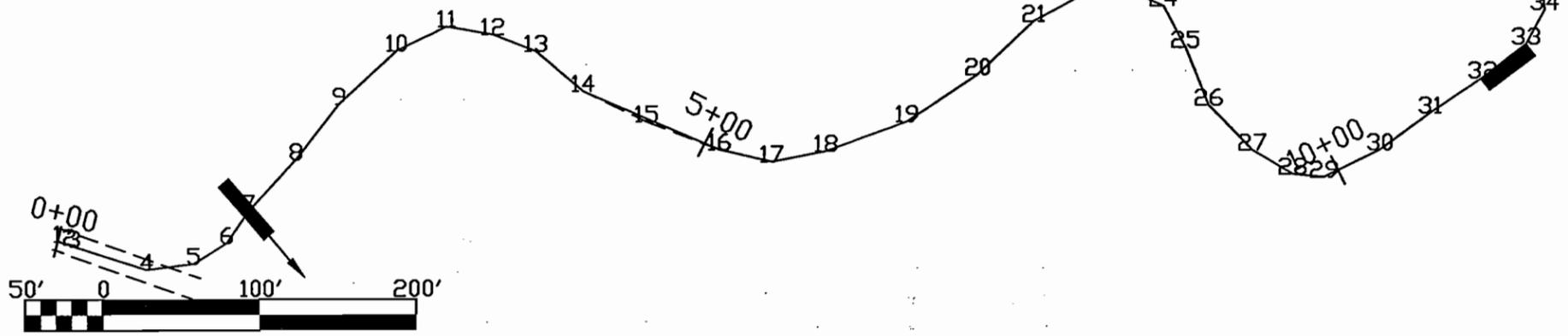
Item 203(01)H
 Item 201(01)
 Item 625(07)

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

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

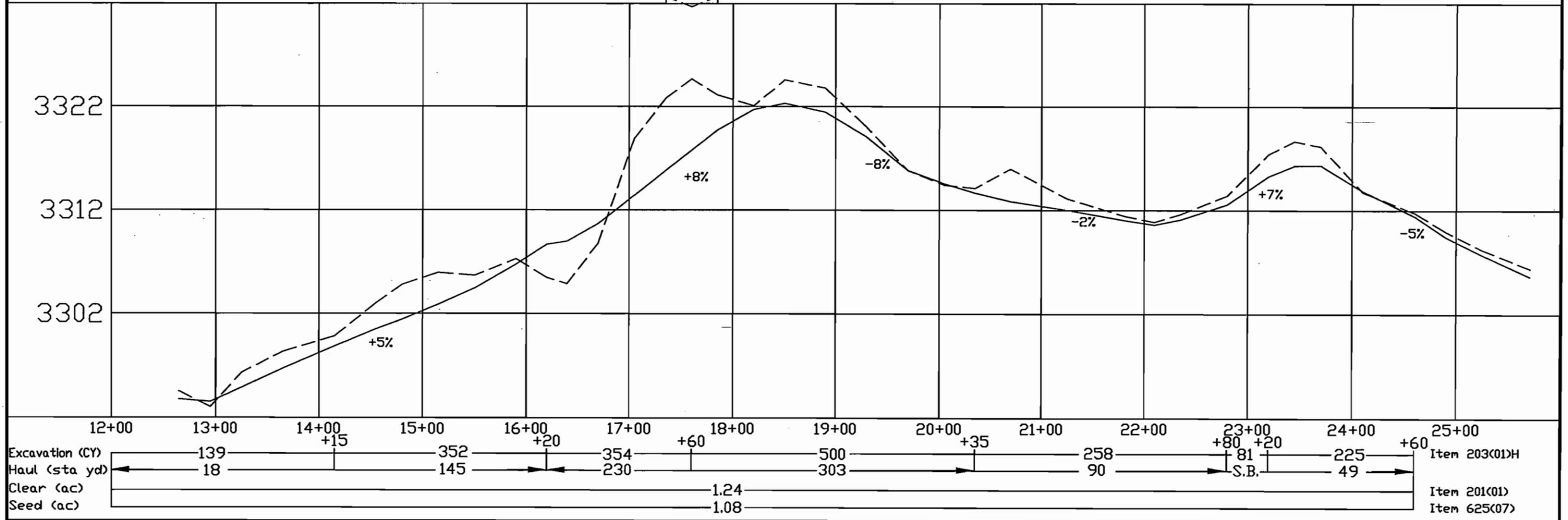
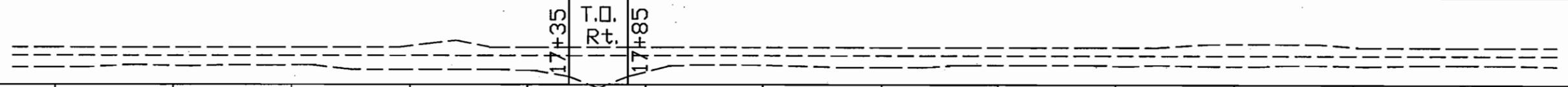
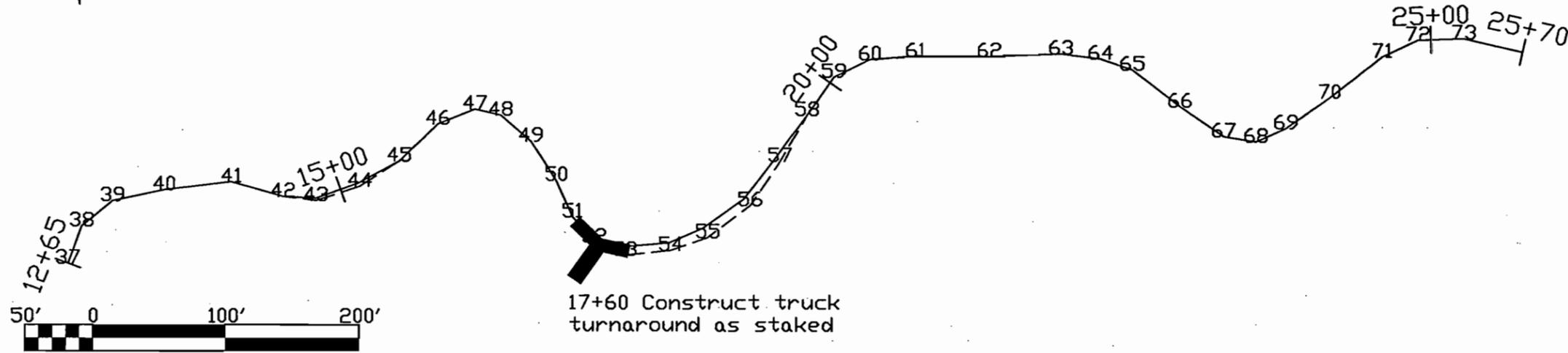
0+00 Begin construction
 Rd 504A (M.P. 0.08)



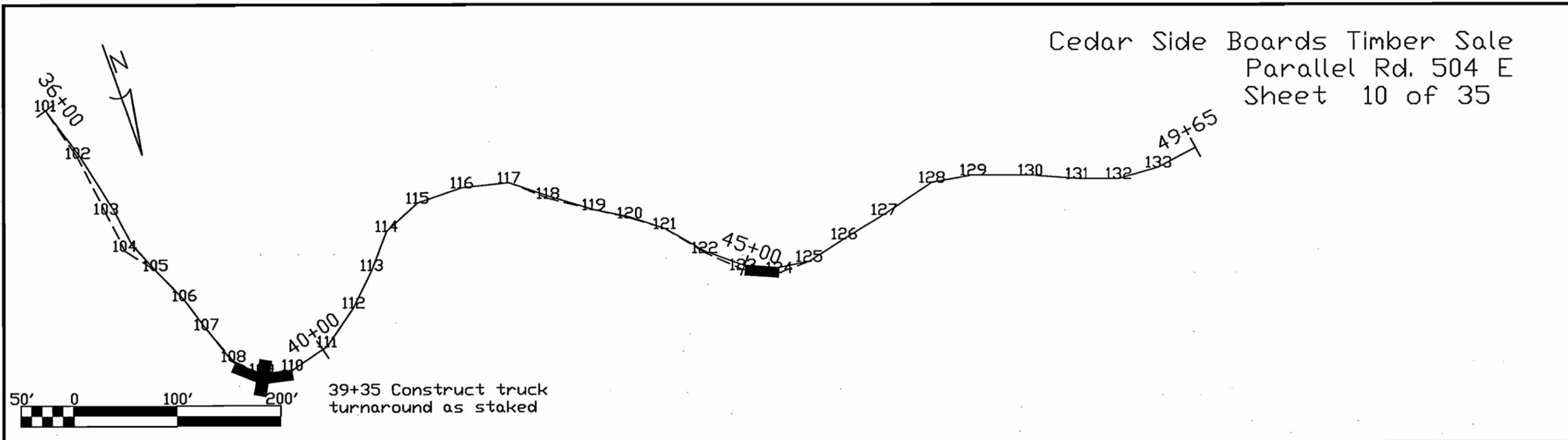
	0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00	12+00	13+00
Excavation (CY)	3	110	165	119	39	506				131	226	160		
Haul (sta yd)	0	5	31	37	2	384			30	12	60	70	40	
Clear (ac)						1.10								
Seed (ac)						0.92								

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

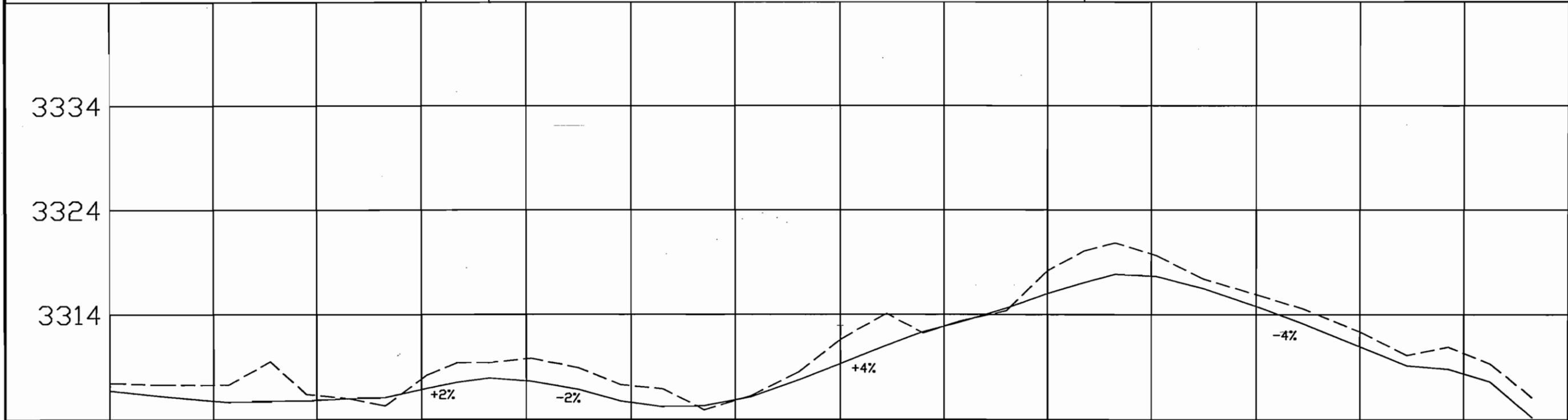
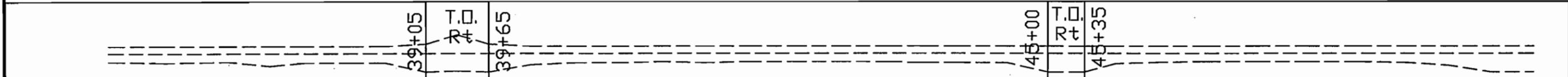
Cedar Side Boards Timber Sale
 Parallel Rd. 504 E
 Sheet 8 of 35



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



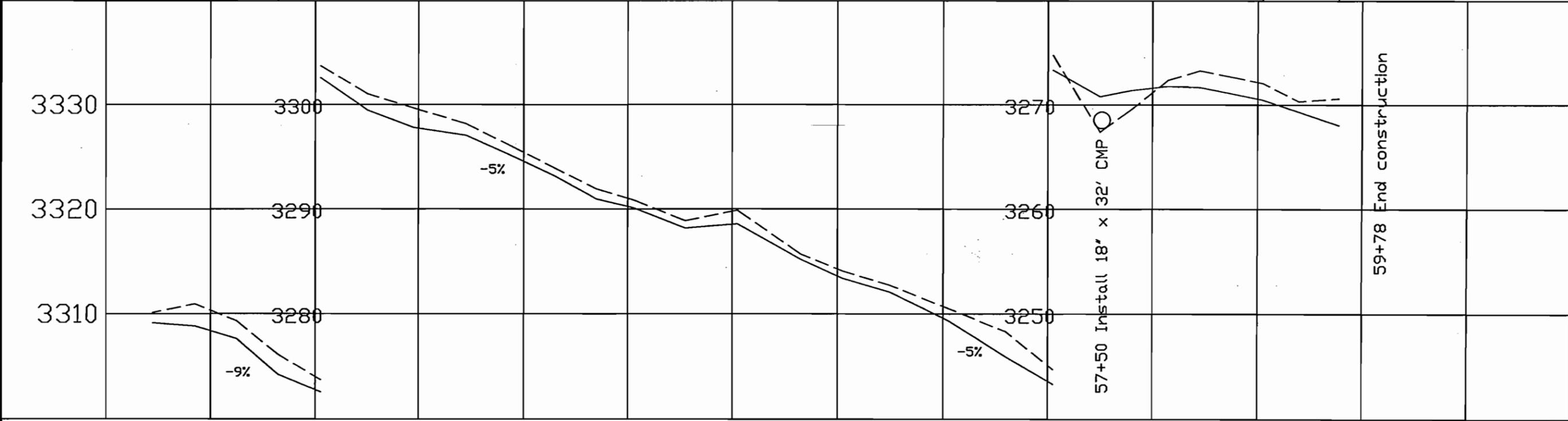
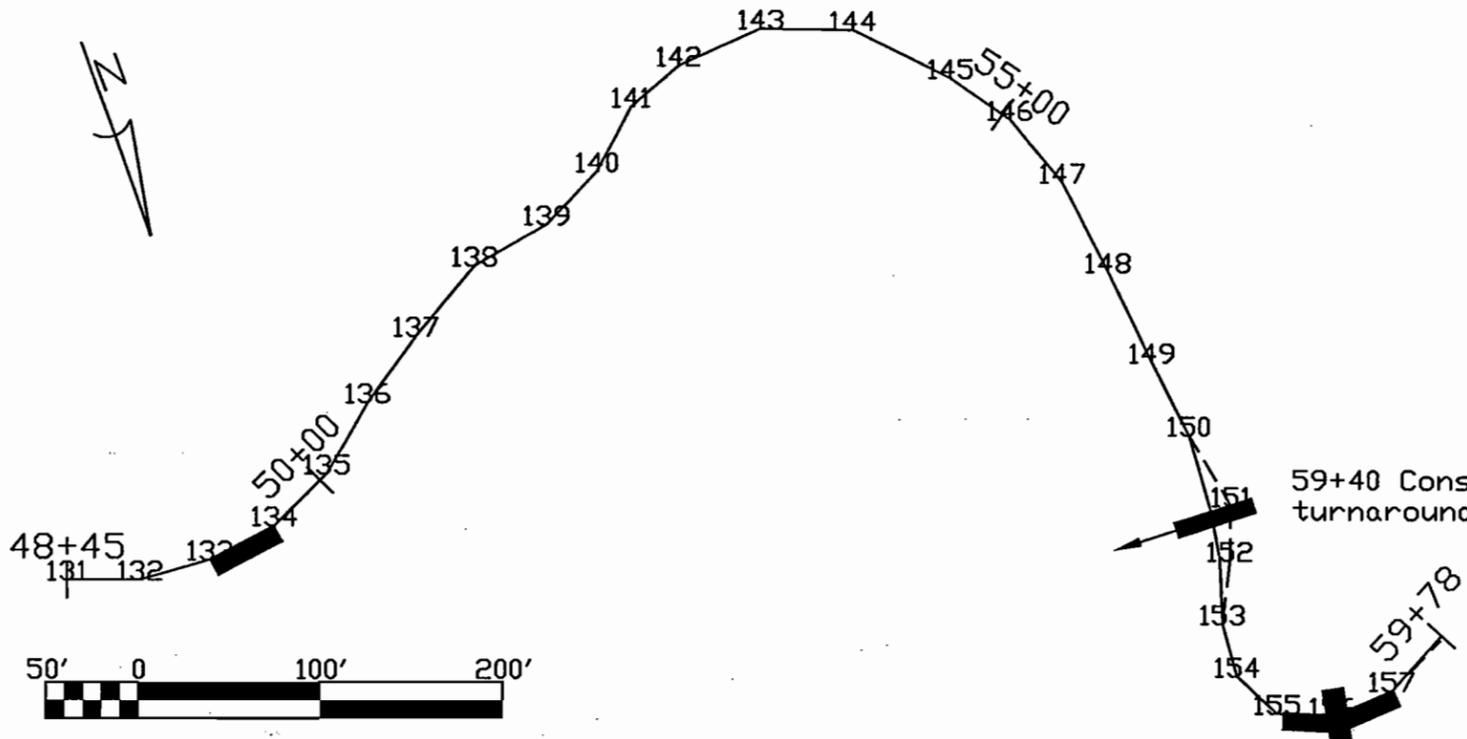
39+35 Construct truck
 turnaround as staked



	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
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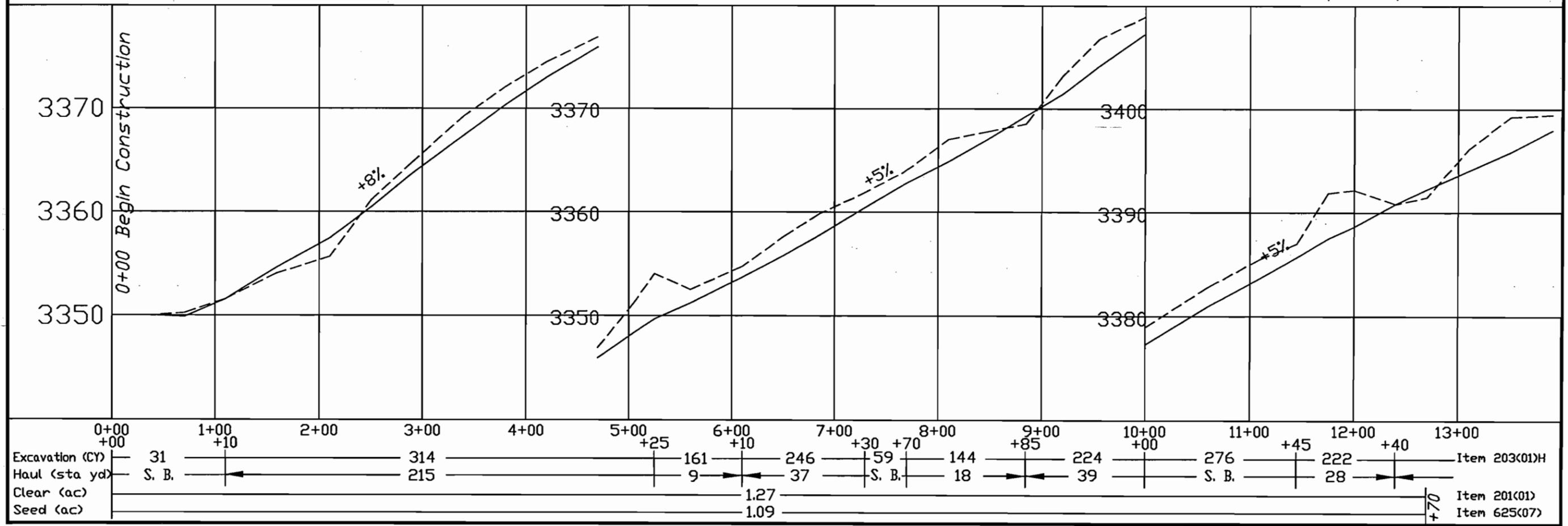
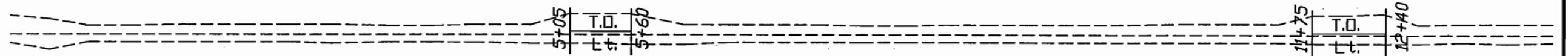
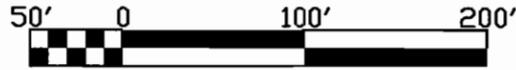
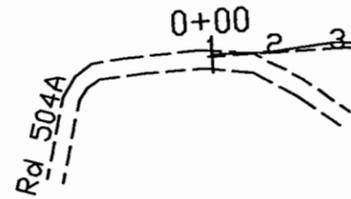


Excavation (CY)	93	548	150	254	
Haul (sta yd)	3	SELF BALANCE	21	148	
Clear (ac)					0.92
Seed (ac)					0.73

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

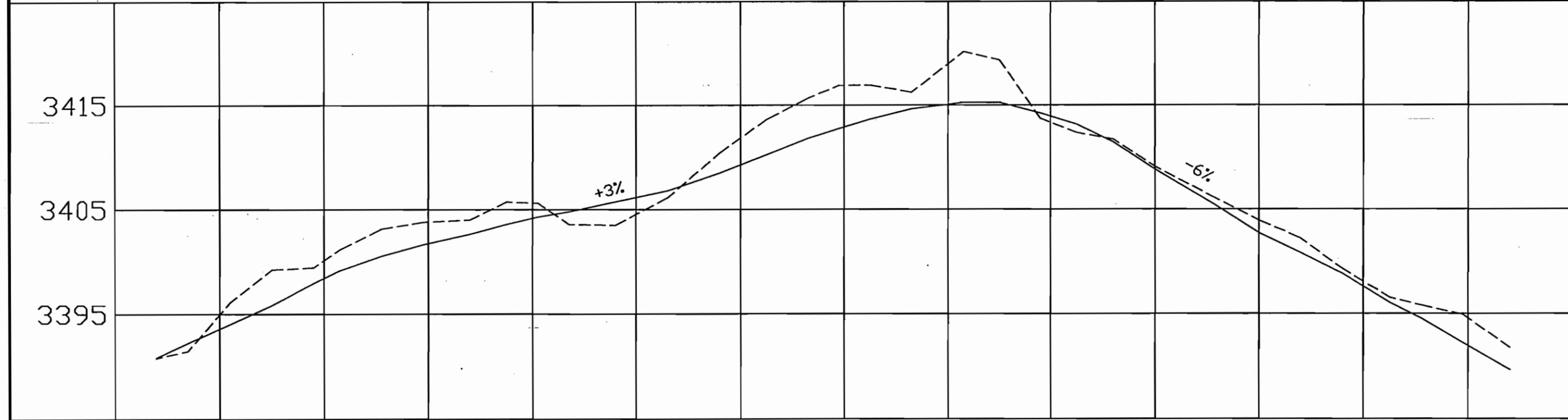
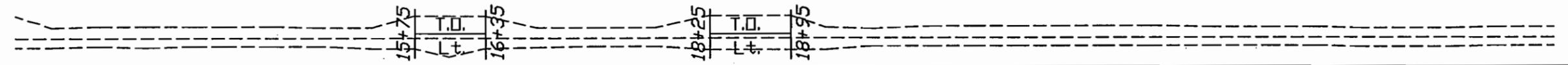
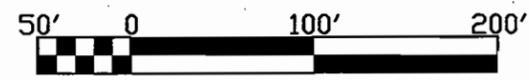
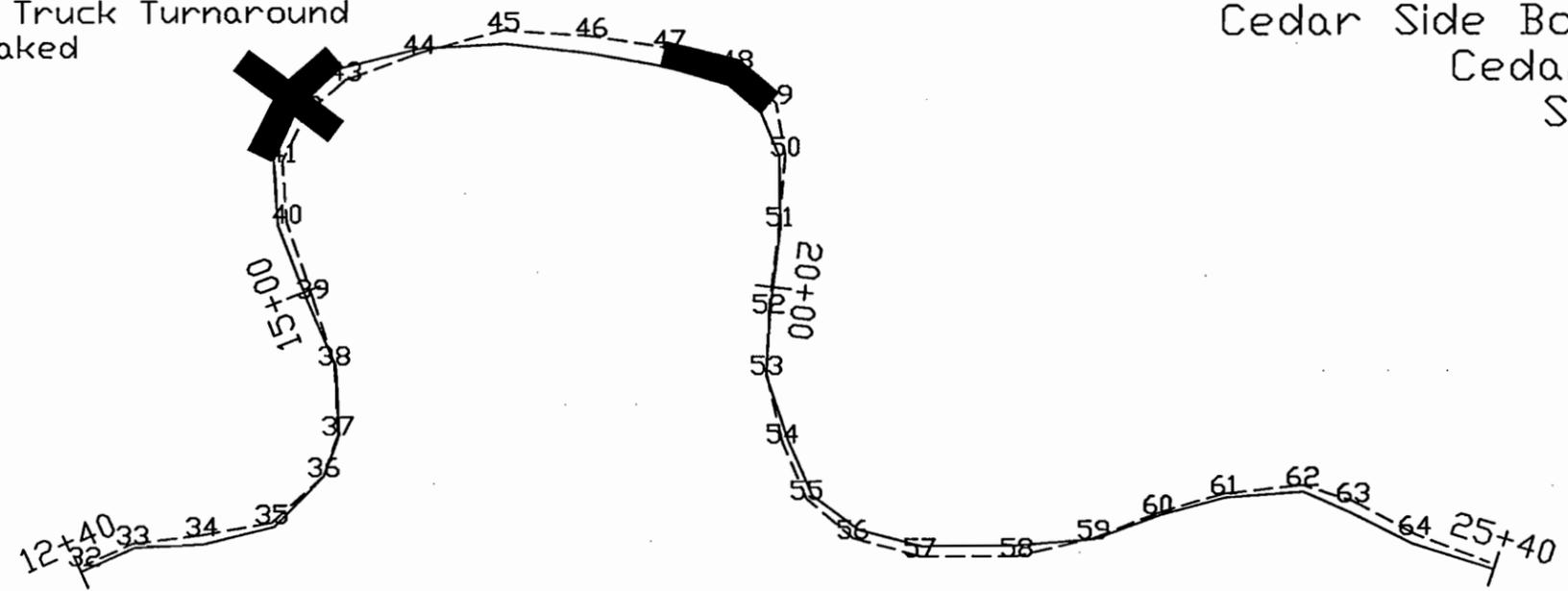
Cedar Side Boards Timber Sale
 Cedar Shake Rd. 504F
 Sheet 12 of 35

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

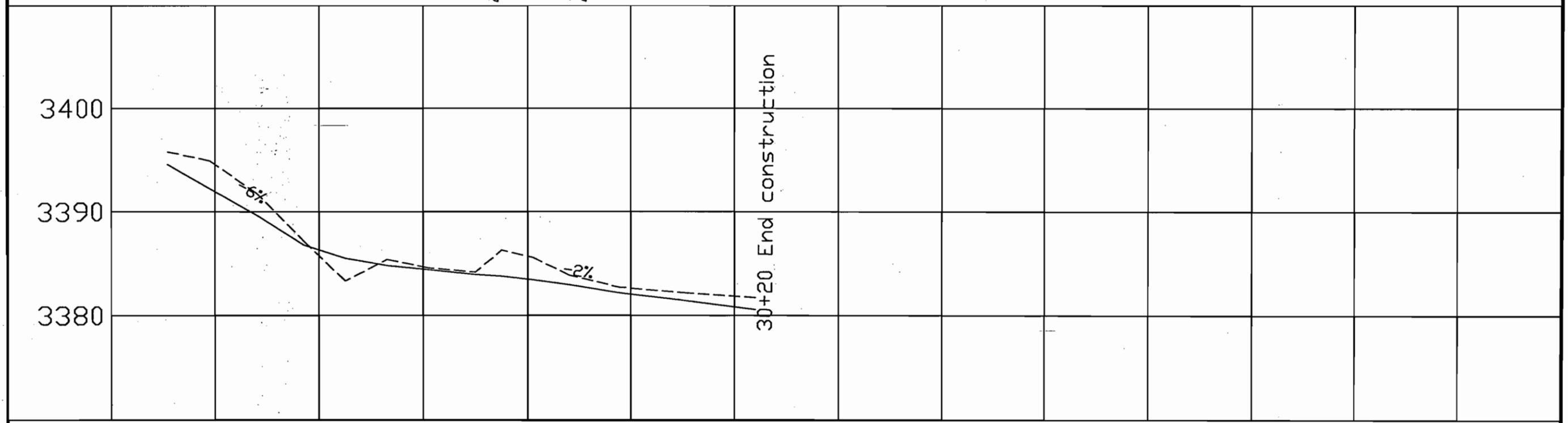
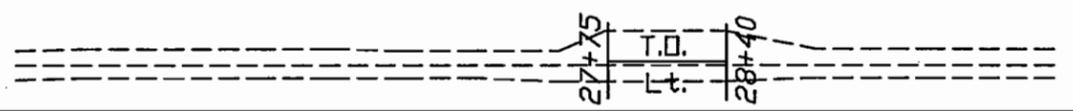
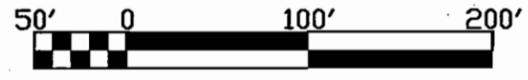
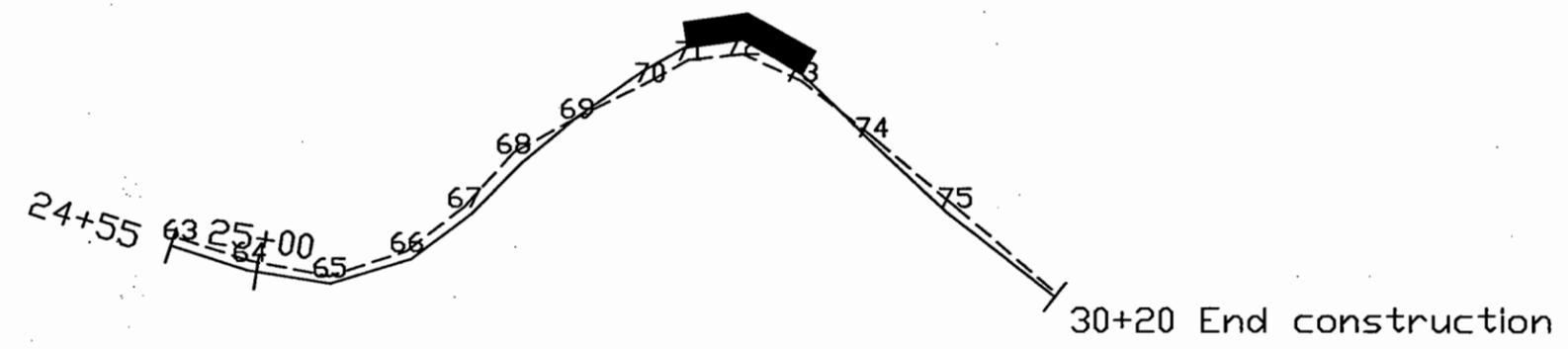


16+05 Const. Truck Turnaround
as staked

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)														

Excavation (CY)	263	21	31	175	90
Haul (sta yd)	127	1	1	25	1
Clear (ac)	0.50				
Seed (ac)	0.41				

+25 +65 +05 +50 +90 +20
 S. B. S. B.

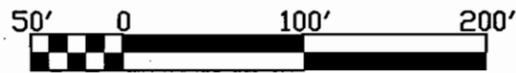
Item 203(01)H
 Item 201(01)
 Item 625(07)

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

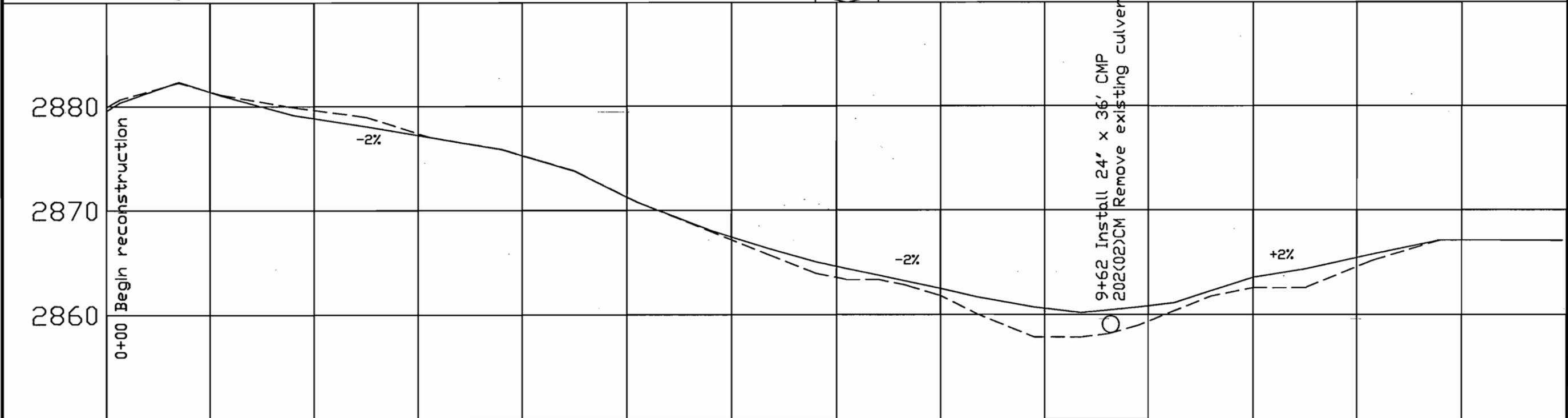
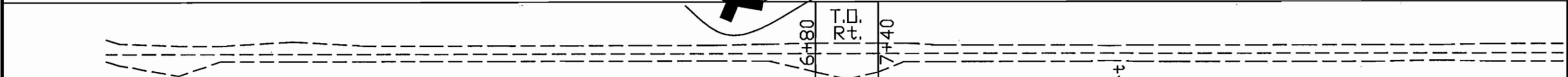
**Note: Contractor shall
 Contact Clearwater Power
 for location of buried
 power line prior to
 starting excavation.**



7+10 Construct truck
 turnaround as staked

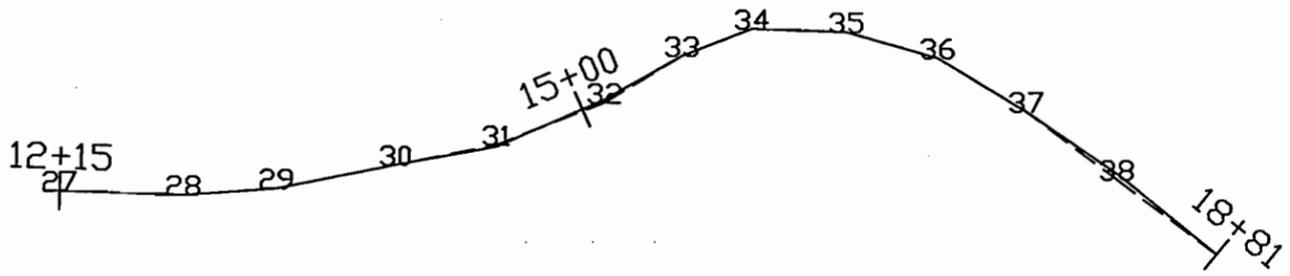
T. 42 N., R. 2 E.
 NE 1/4 Sec. 6
 Potlatch Corporation
 T. 43 N., R. 2 E.
 SE 1/4 Sec. 31
 U.S. Gov't (F.S.)

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

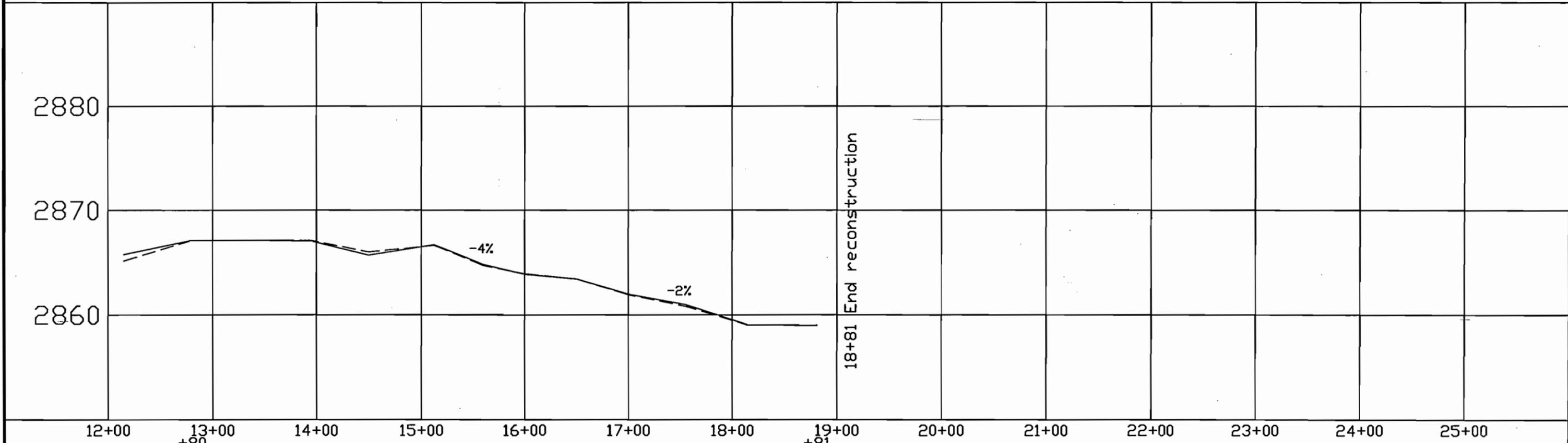
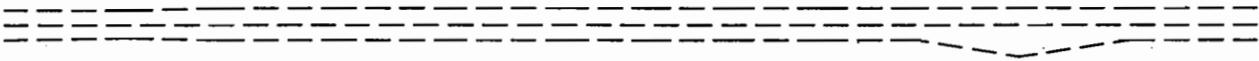
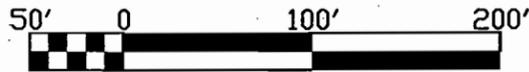


	0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00	12+00	13+00
	+00	+10				+10	+80	+10		+35		+00	+50	+80
Excavation (CY)		3		56		8	39		228		153		103	
Haul (sta yd)		16		944			6		170		99		0	45
Clear (ac)						1.29								
Seed (ac)						1.04								

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

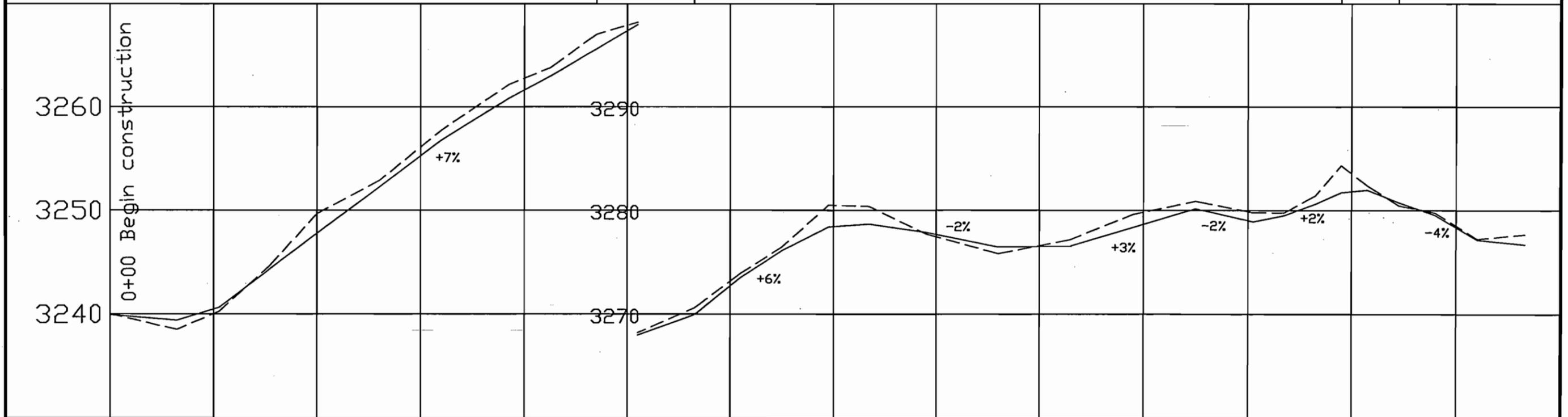
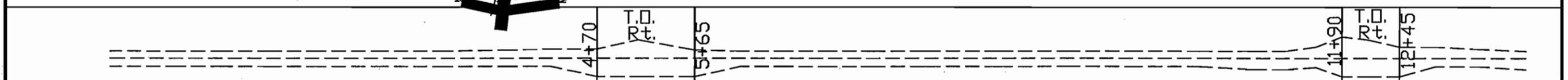
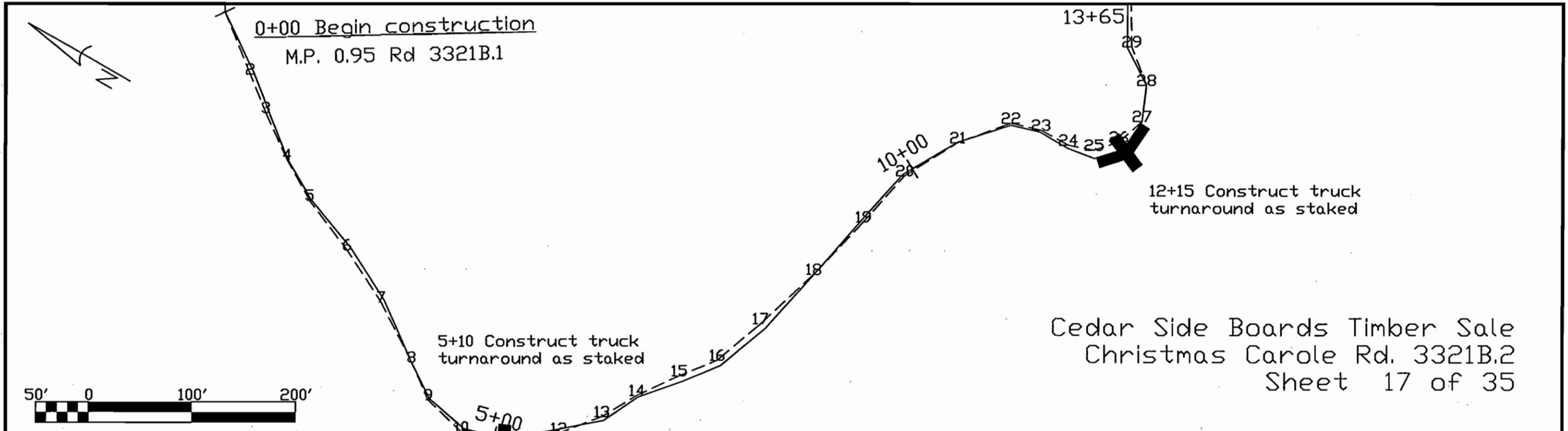


18+81 End reconstruction



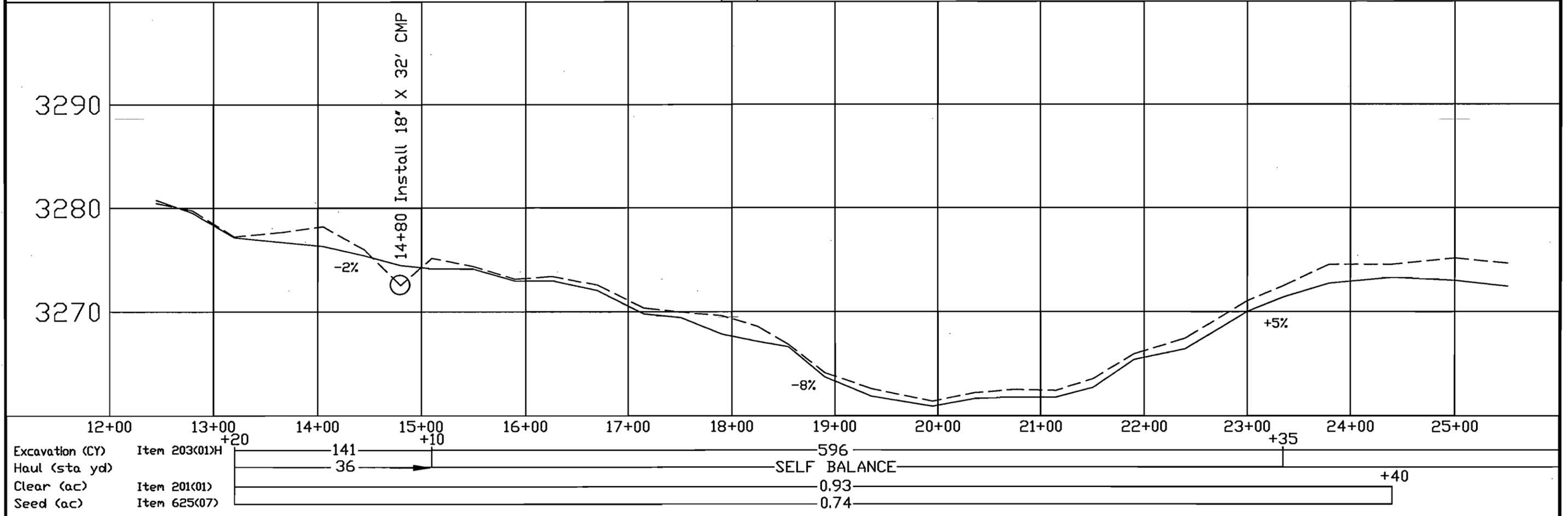
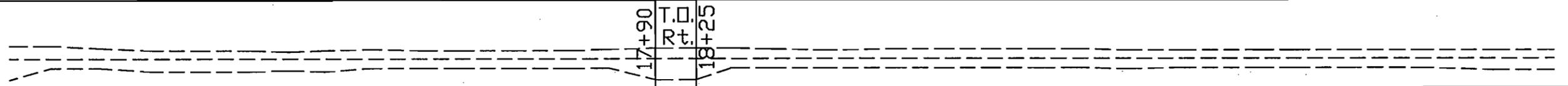
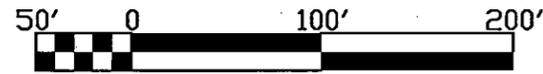
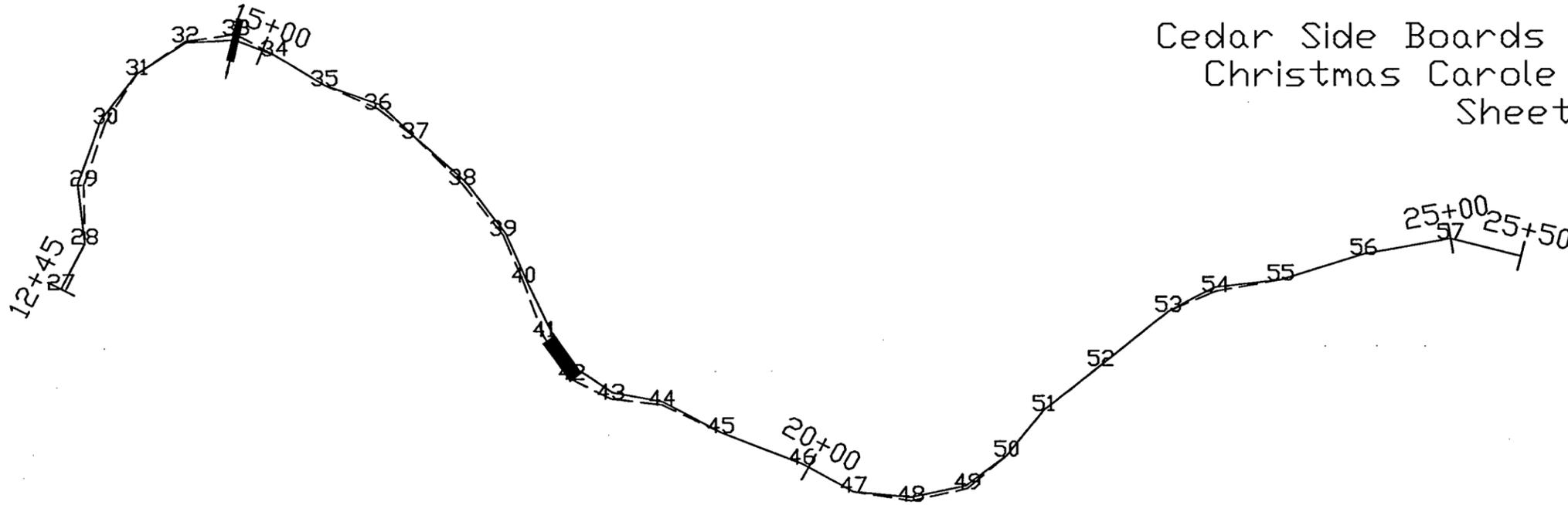
Excavation (CY)	27
Haul (sta yd)	SELF BALANCE
Clear (ac)	0.41
Seed (ac)	0.26

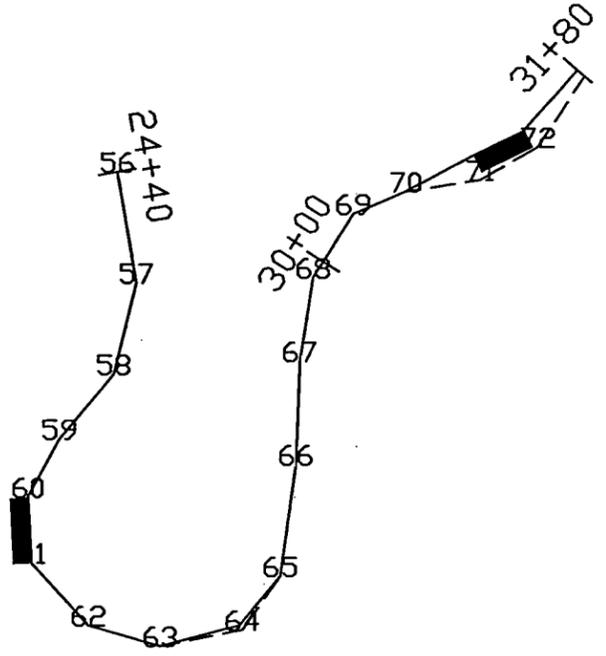
- Item 203(01)H
- Item 201(01)
- Item 625(07)



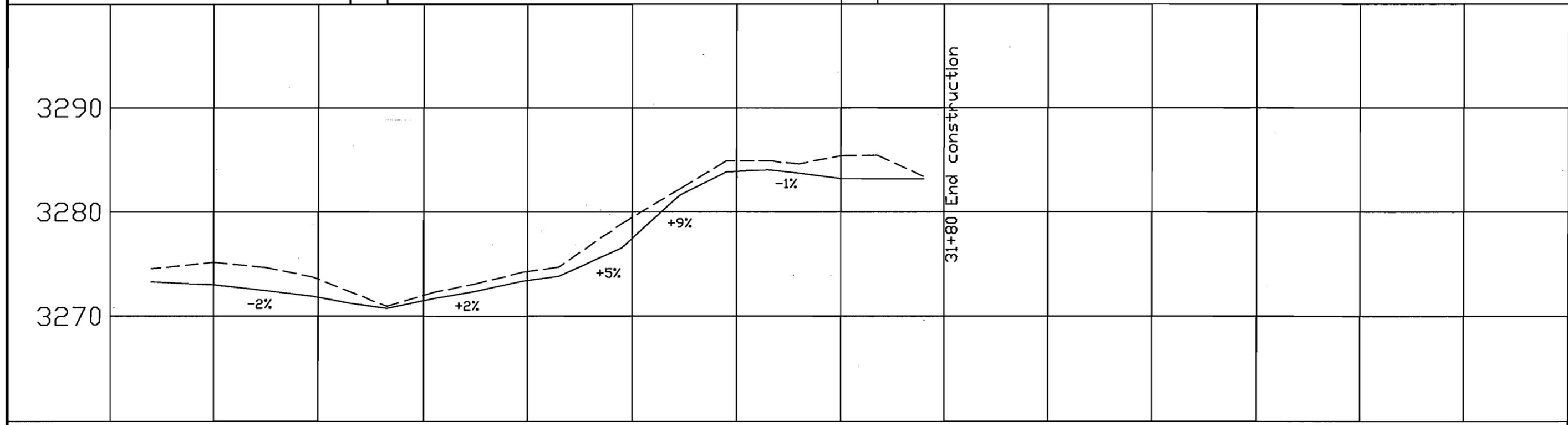
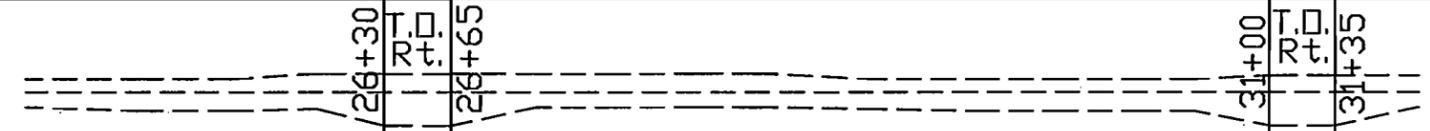
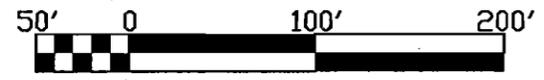
Excavation (CY)	494	180	99	259	18	Item 203(1)H
Haul (sta yd)	SELF BALANCE	93	SELF BALANCE	43	S.B.	
Clear (ac)		1.14				Item 201(1)D
Seed (ac)		0.91				Item 625(7)7

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





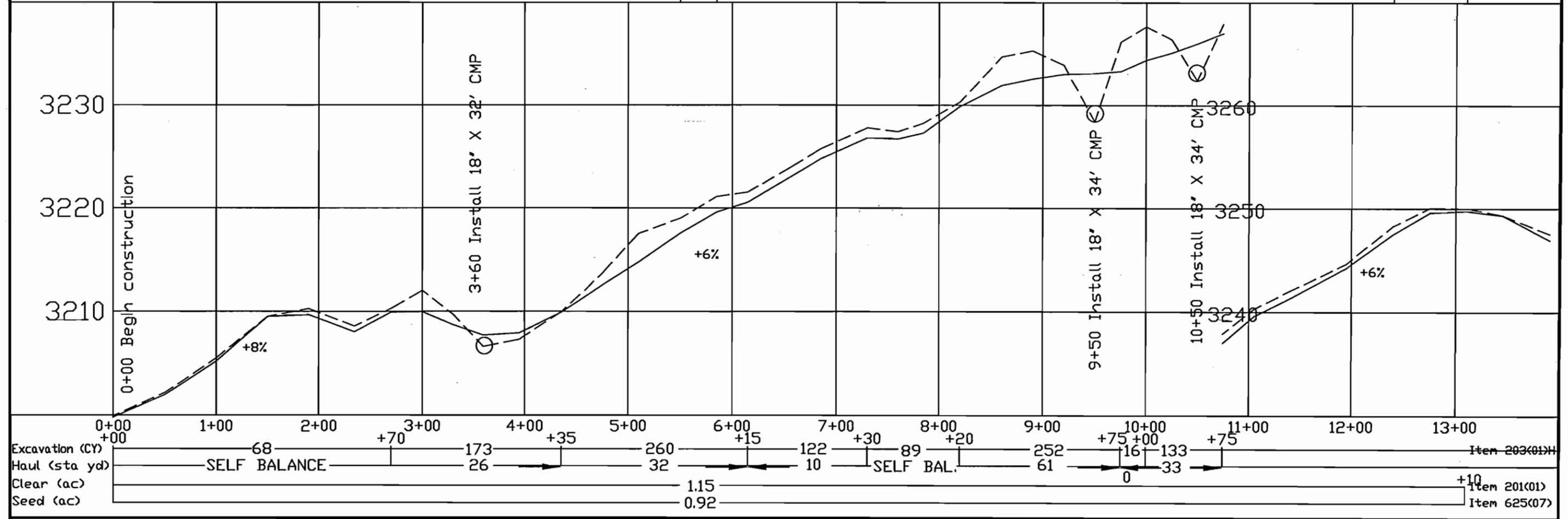
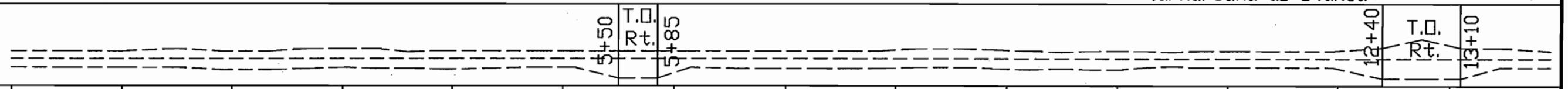
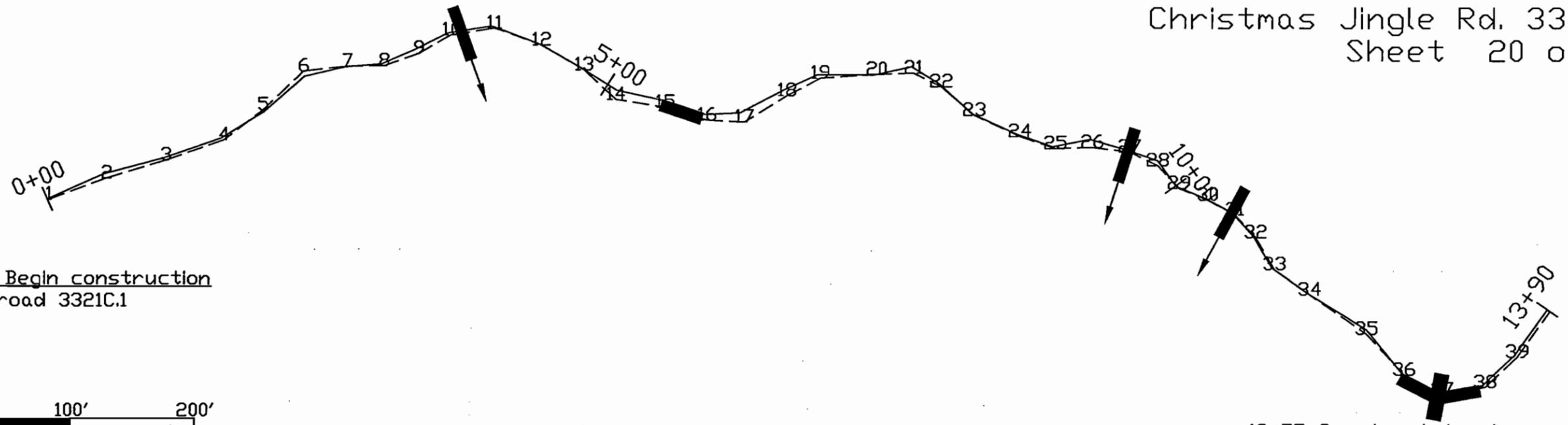
31+80 End construction



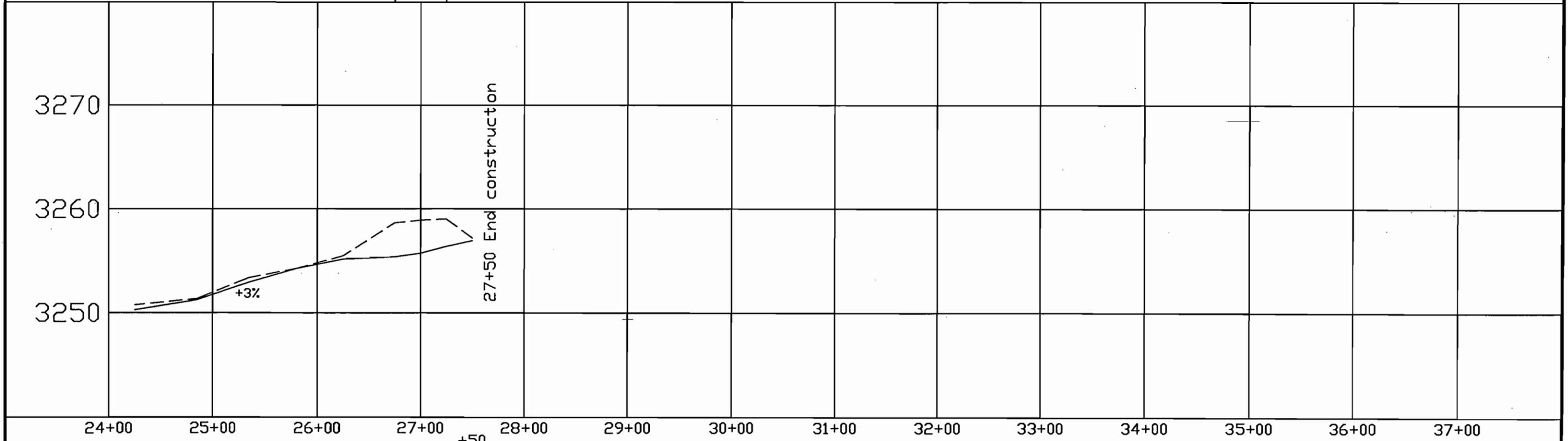
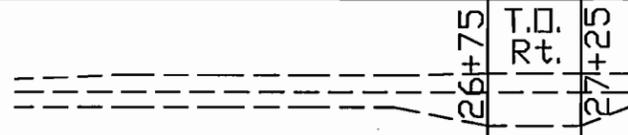
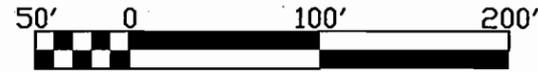
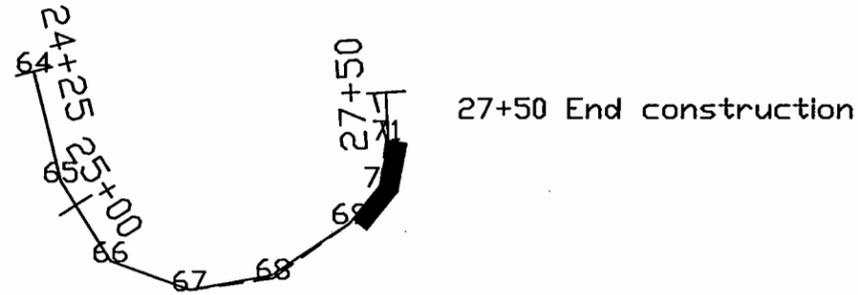
	24+00	25+00	26+00	27+00	28+00	29+00	30+00	31+00	32+00	33+00	34+00	35+00	36+00	37+00
Excavation (CY)			439	+10	133	+30	404	+80						
Haul (sta yd)			233		23		SELF BALANCE							
Clear (ac)	+40				0.71									
Seed (ac)					0.60									

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

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

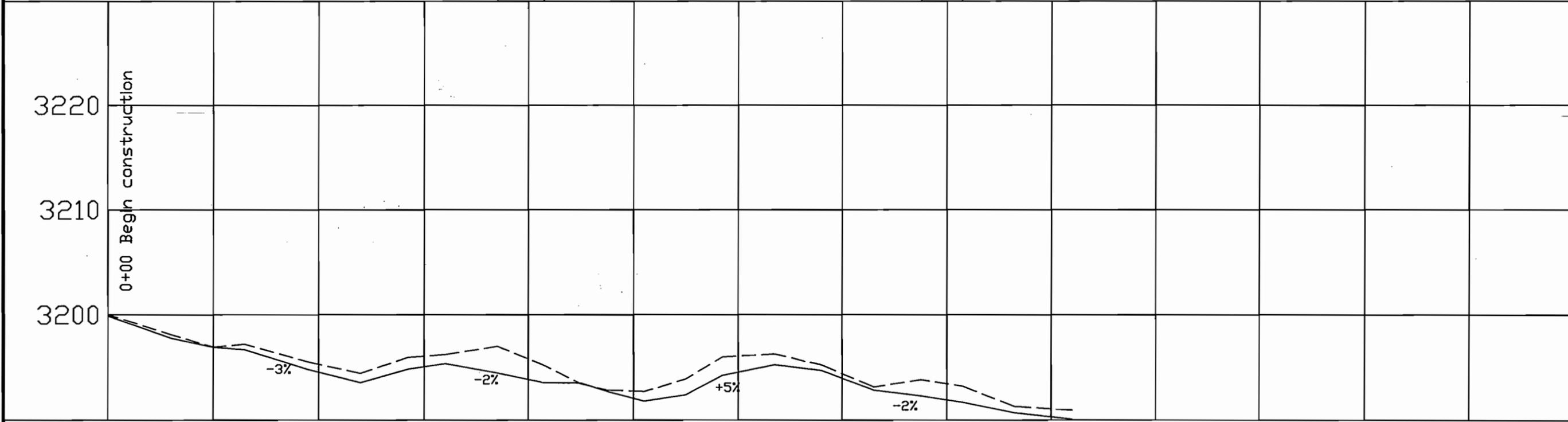
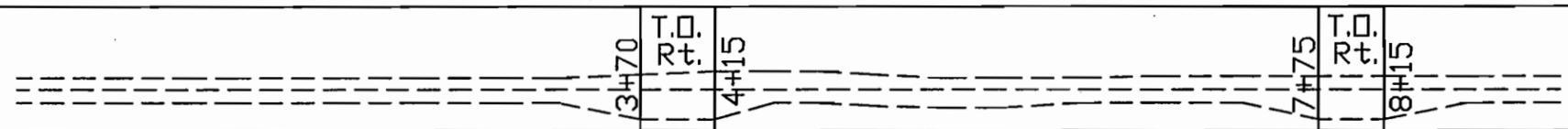
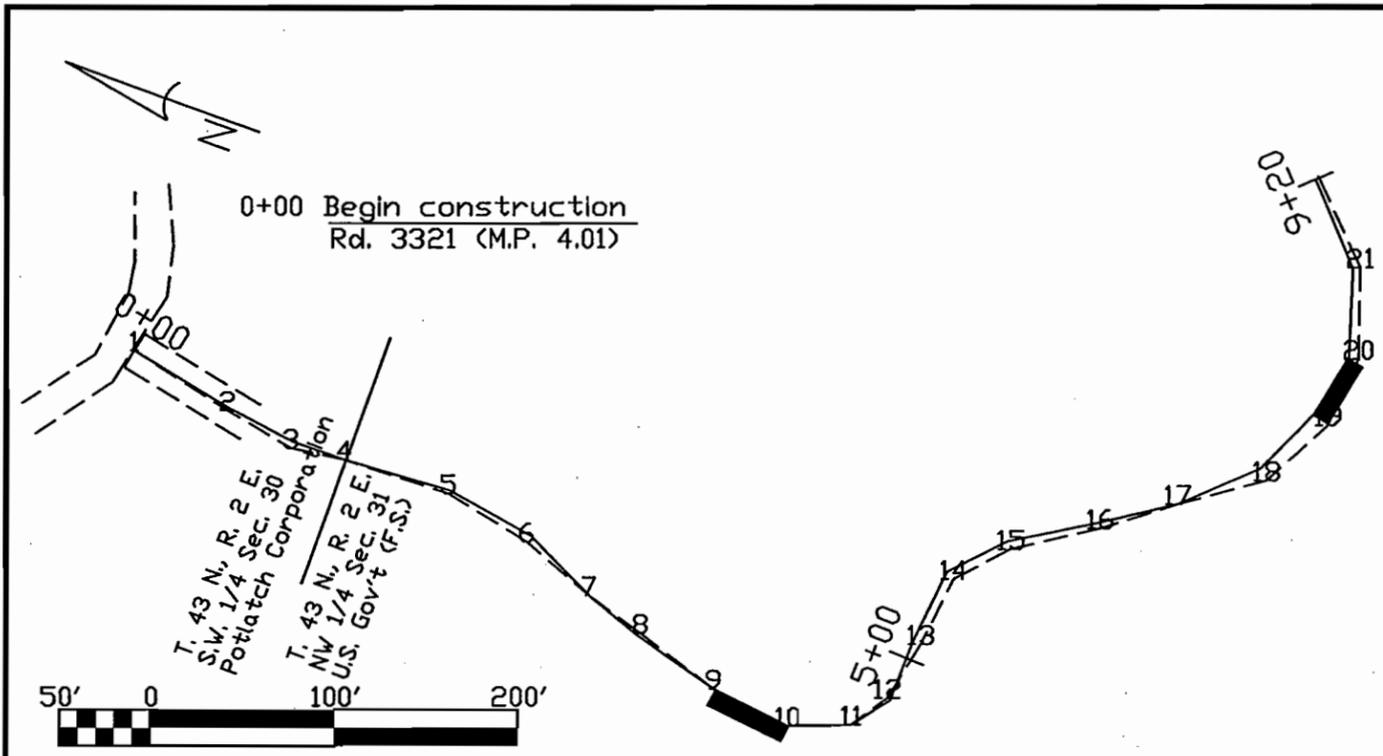


Item 203(01)
 Item 201(01)
 Item 625(07)

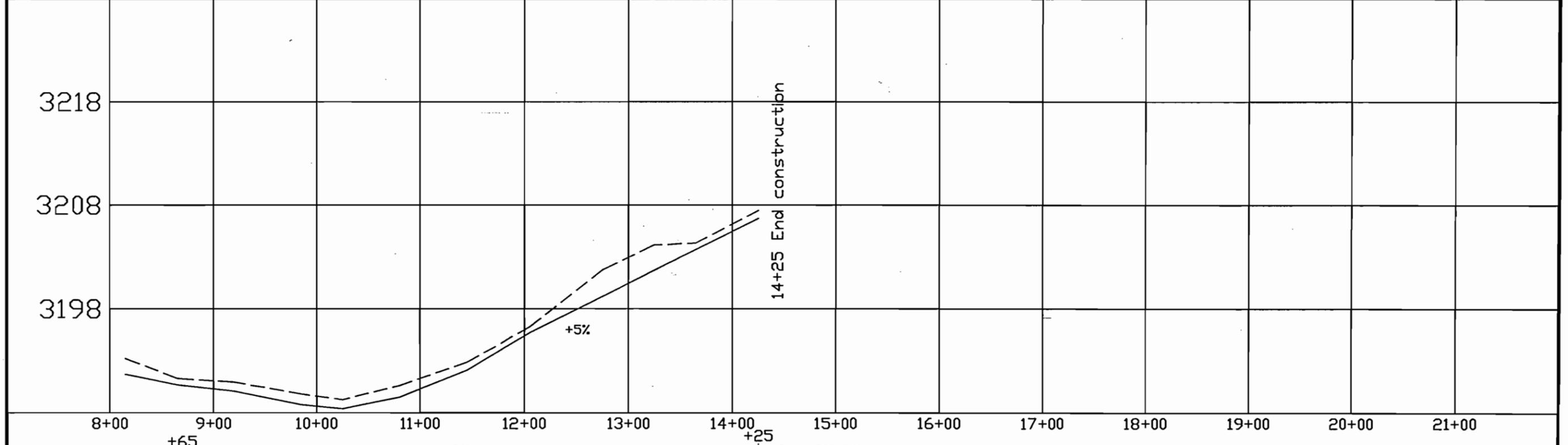
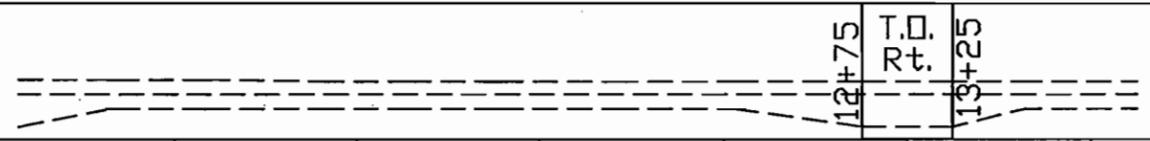
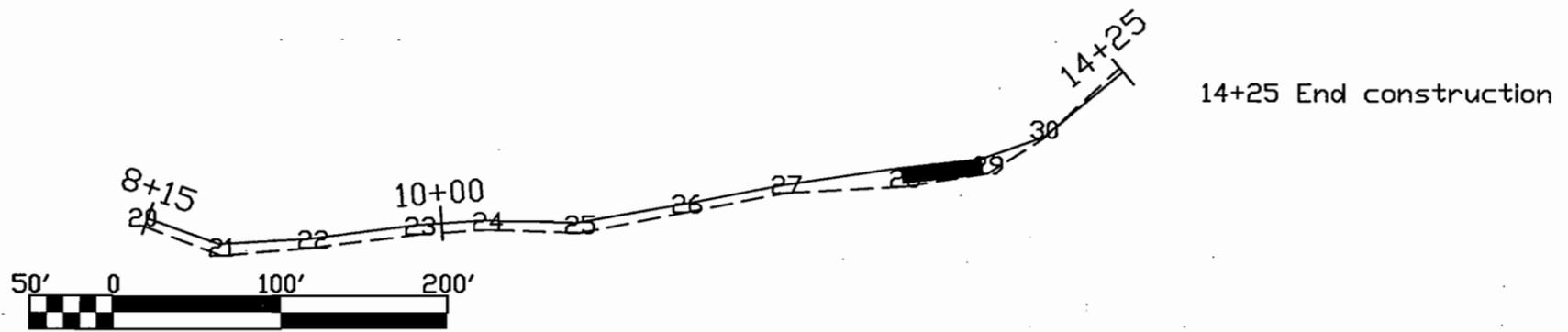


Excavation (CY)	940	Item 203(01)H
Haul (sta yd)	SELF BALANCE	
Clear (ac)	+35 0.21	Item 201(01)
Seed (ac)	0.18	Item 625(07)

Cedar Side Boards Timber Sale
 Christmas Bell Rd. 3321 E
 Sheet 23 of 35

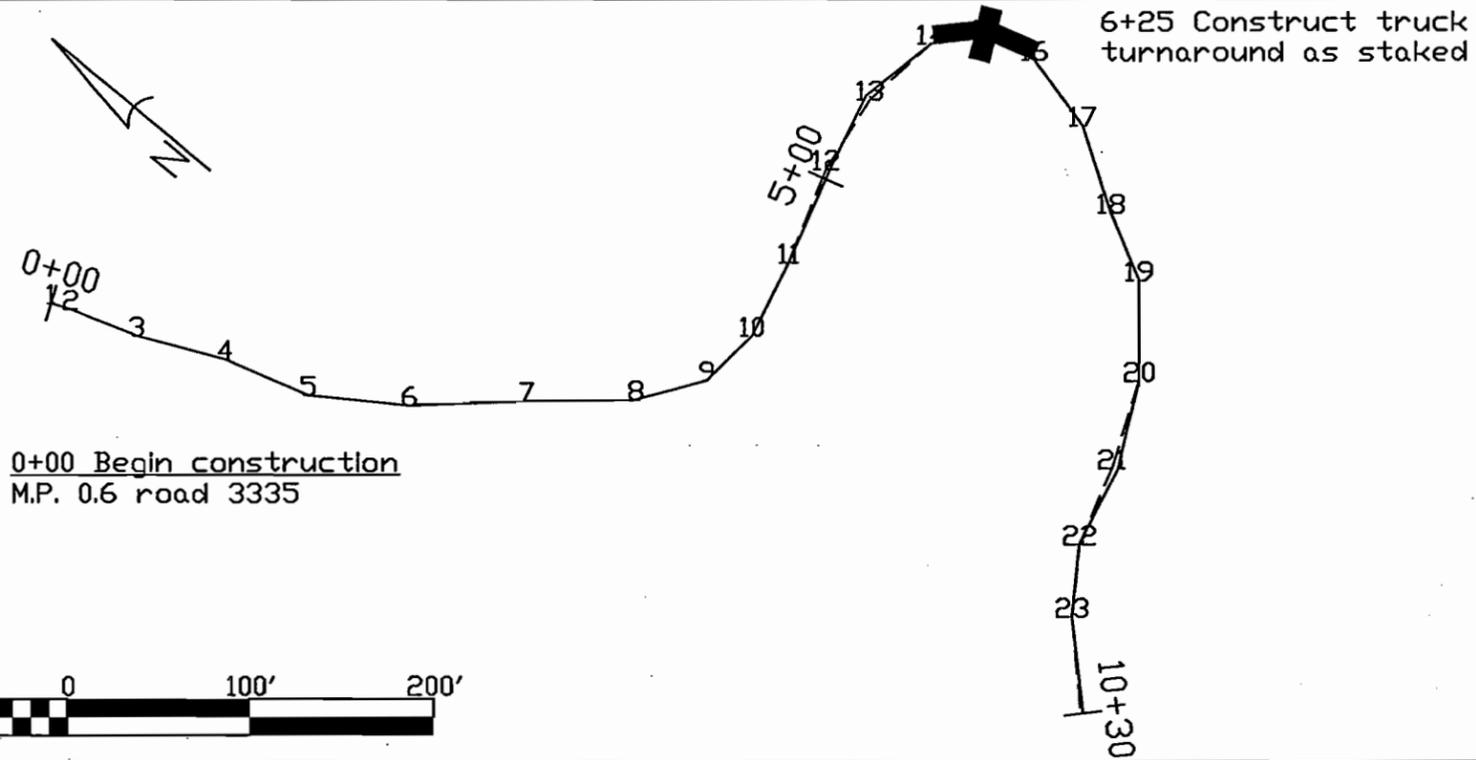


Excavation (CY)	841	Item 203(01)H
Haul (sta yd)	SELF BALANCE	
Clear (ac)	0.80	Item 201(01)
Seed (ac)	0.66	Item 625(07)

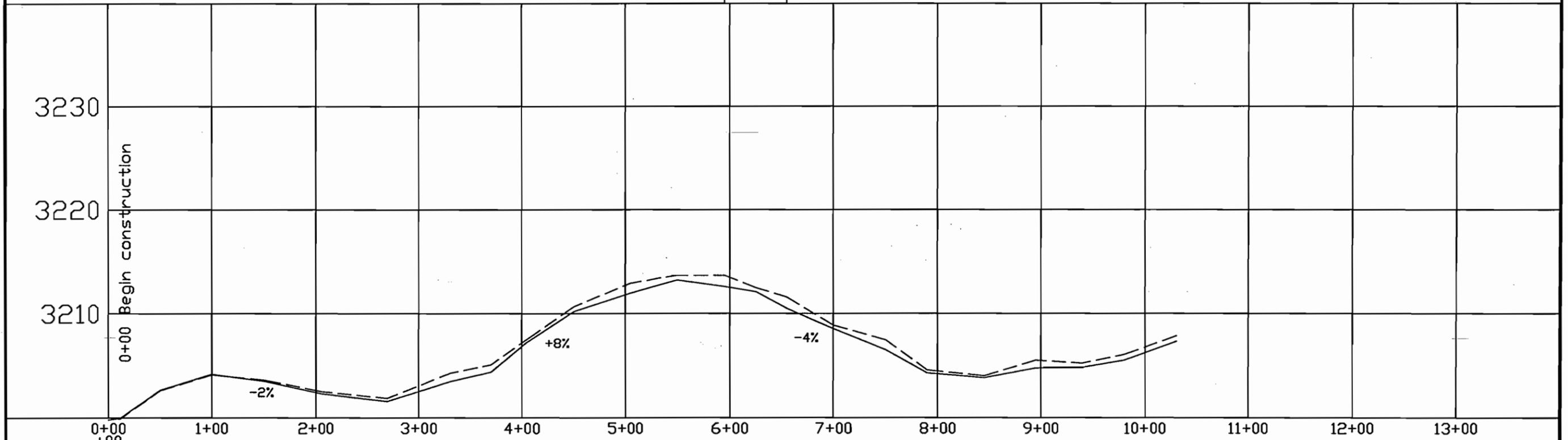
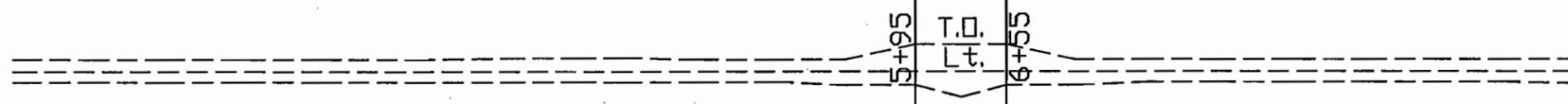
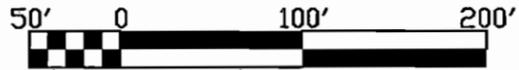


Excavation (CY)	+65	634	Item 203(01)H
Haul (sta yd)		SELF BALANCE	
Clear (ac)		0.54	Item 201(01)
Seed (ac)		0.46	Item 625(07)

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

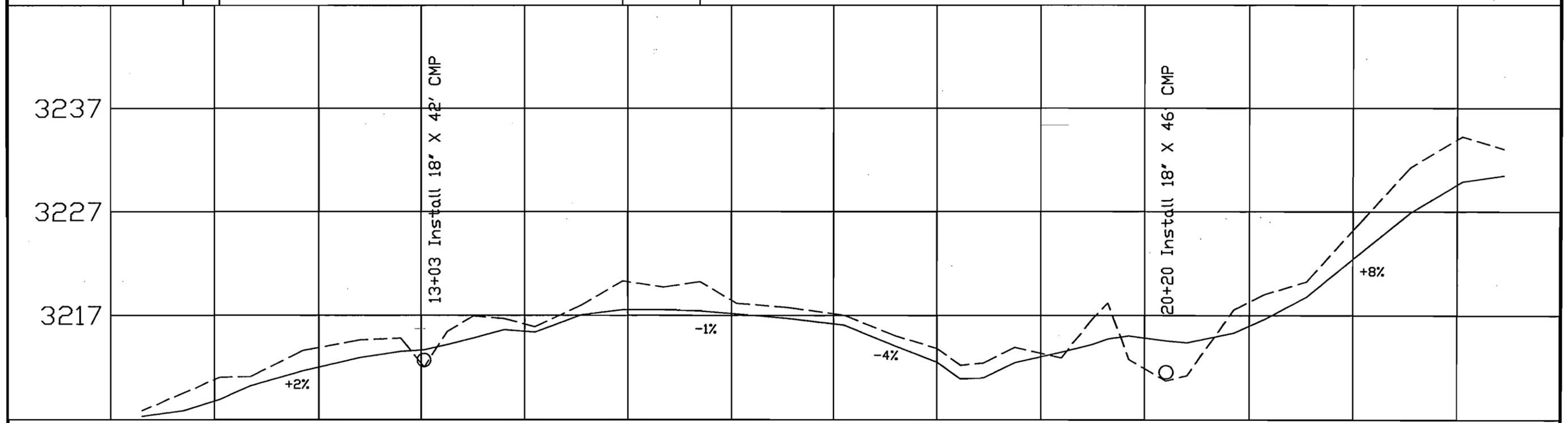
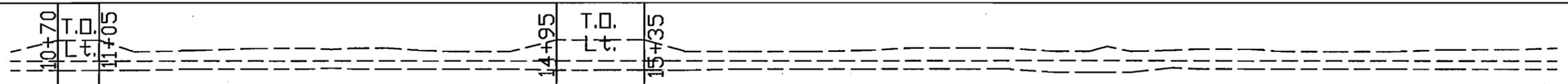
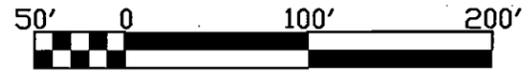
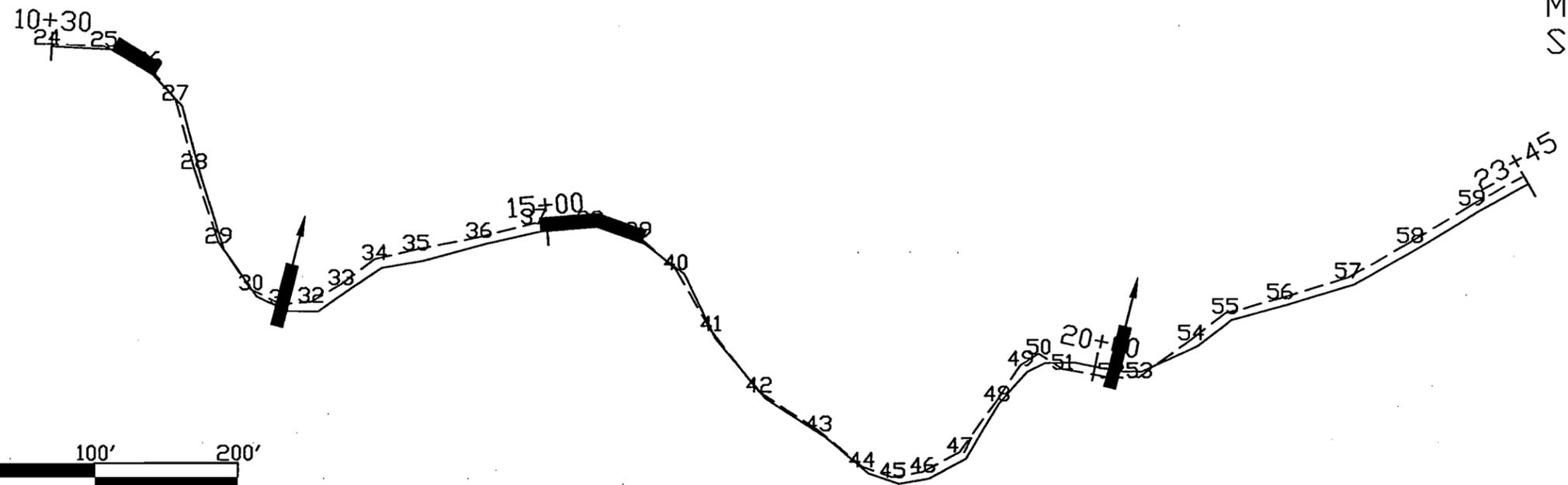


0+00 Begin construction
 M.P. 0.6 road 3335

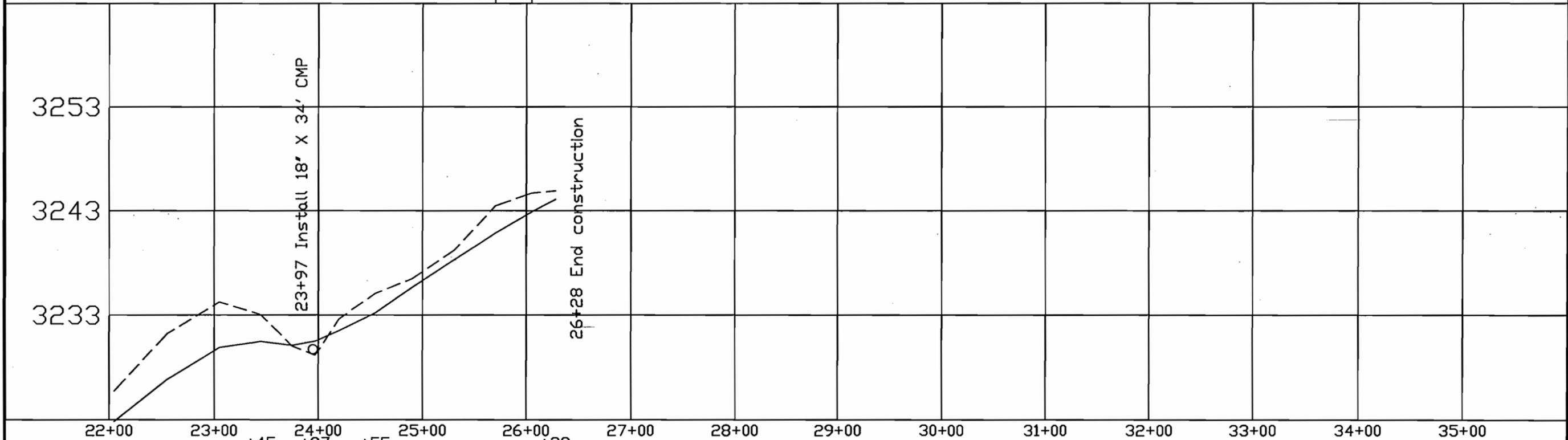
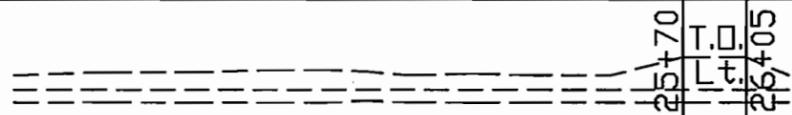
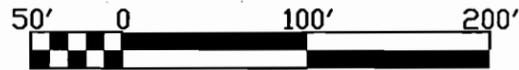
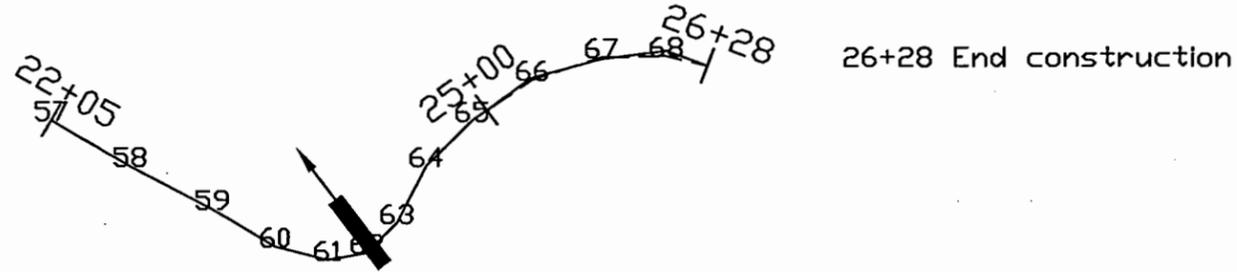


Excavation (CY)		Item 203(01)H
Haul (sta yd)	SELF BALANCE	
Clear (ac)	0.80	Item 201(01)
Seed (ac)	0.58	Item 625(07)

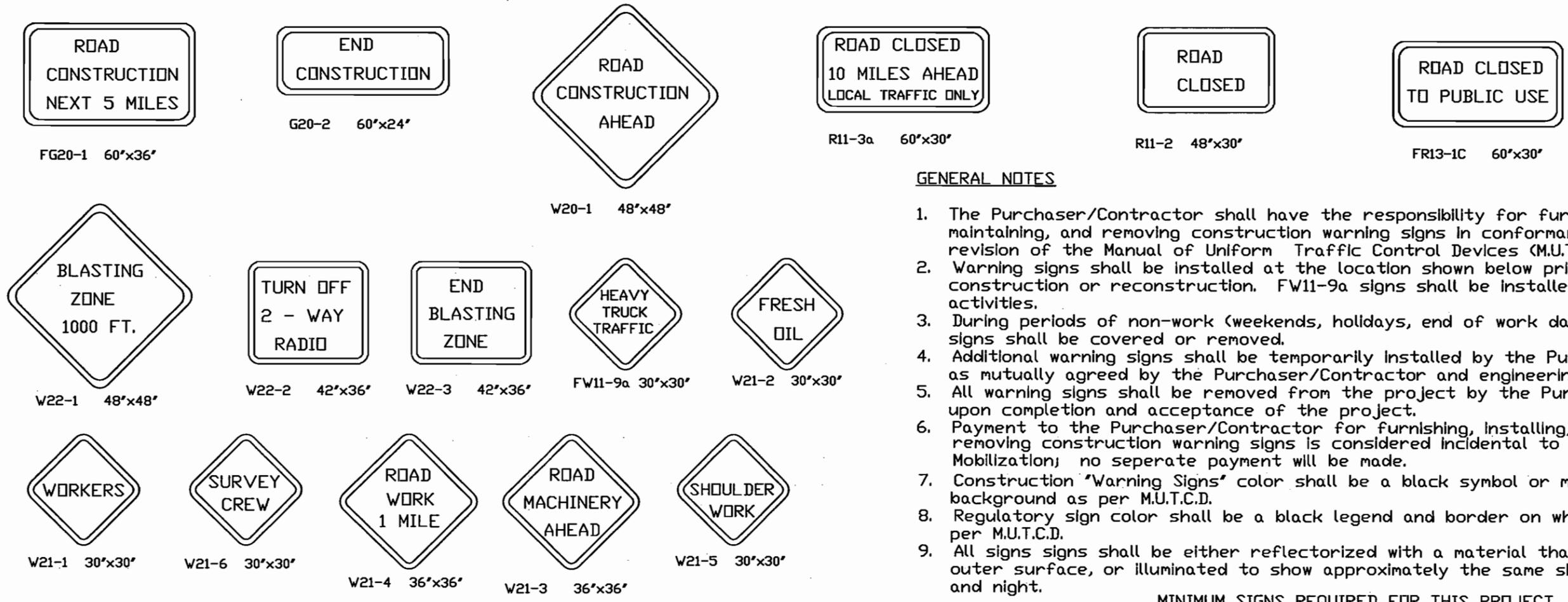
Cedar Side Boards Timber Sale
 Misfire Rd. 3335C
 Sheet 26 of 35



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
				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			



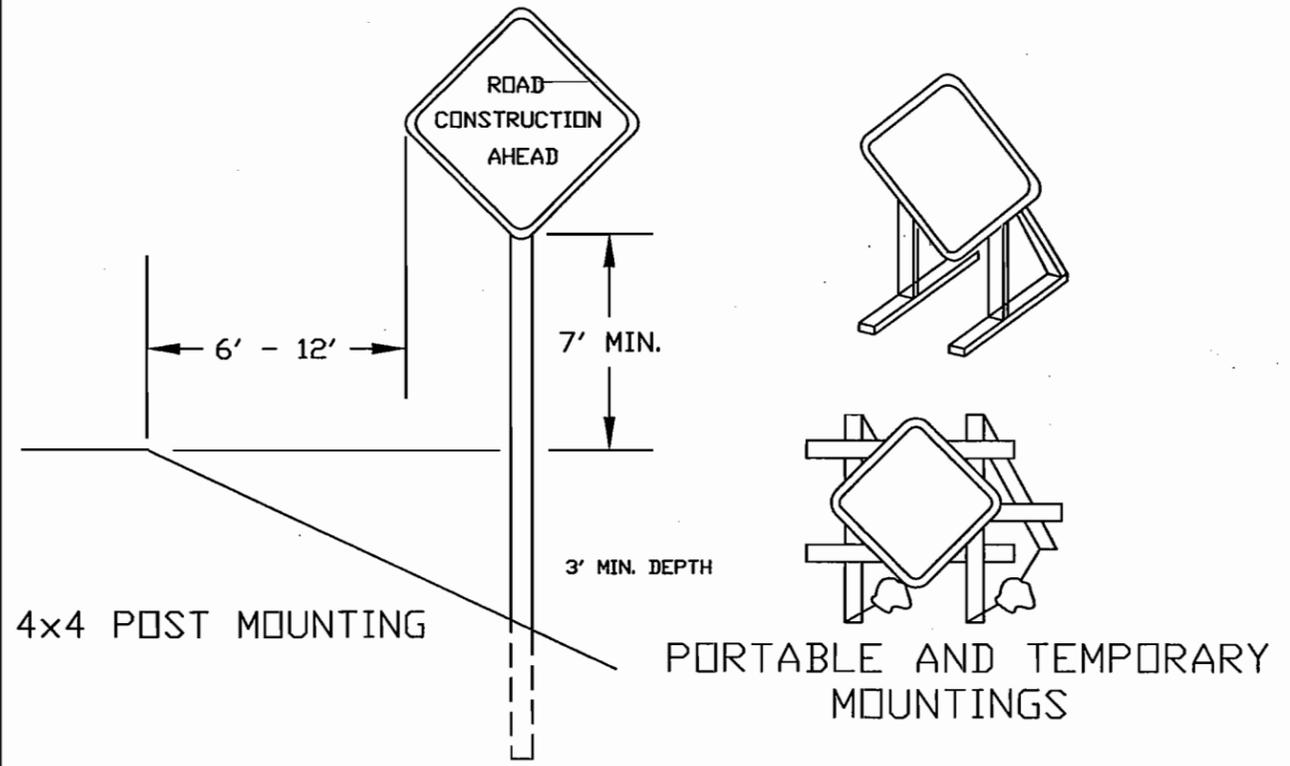
TYPICAL CONSTRUCTION WARNING SIGNS (AS PER M.U.T.C.D)

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

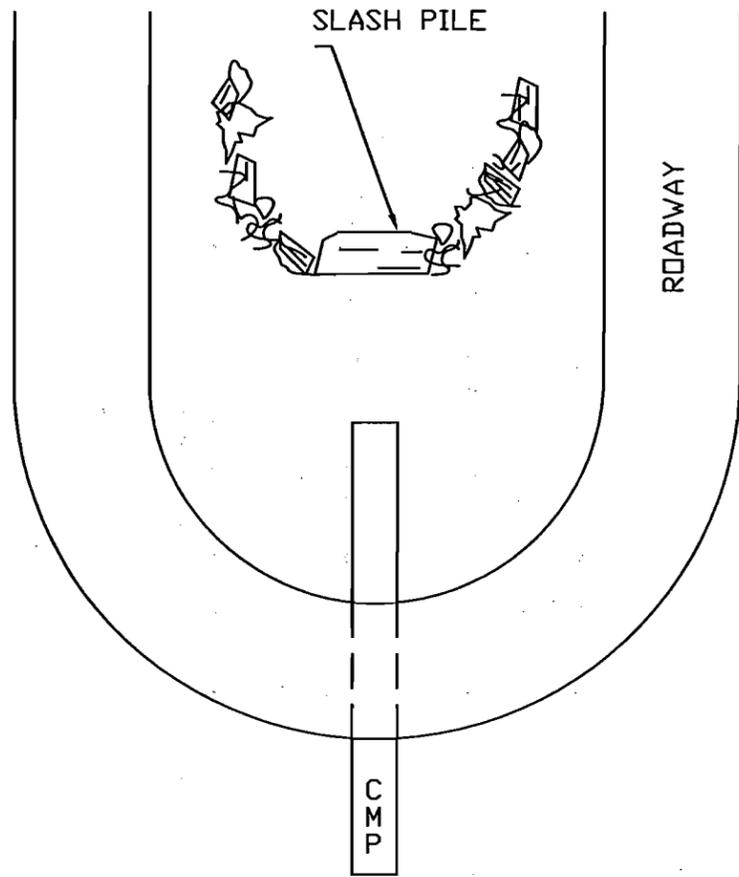
ROAD	LOCATION	WARNING SIGN	PERIOD OF USE
504	Jct. w/ SH - 3 Jct w/ Rd 447 Jct w/ Rd 3557A	HEAVY TRUCK TRAFFIC FW11-9a	Log, Water, or Aggregate Haul
504A	Jct. w/ Rd 504	HEAVY TRUCK TRAFFIC FW11-9a ROAD CONSTRUCTION AHEAD W20-1	Log, Water, or Aggregate Haul Reconstruction Activities
504E	Jct. w/ Rd 504A	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)

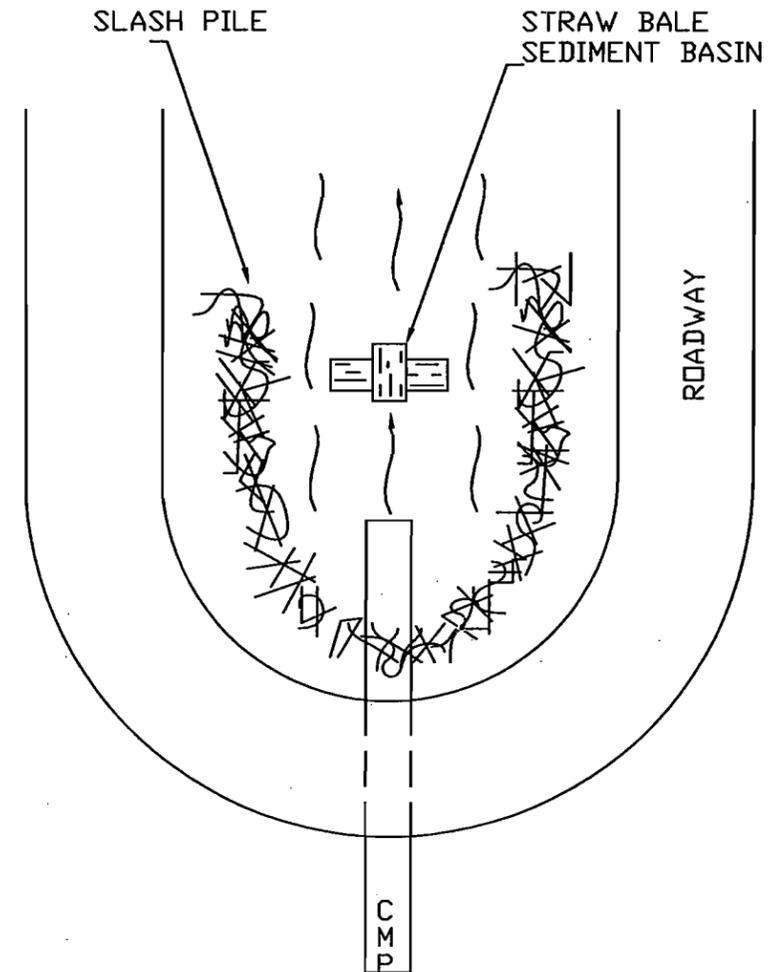
Additional signs may be necessary as required by County, State and Federal agencies.

PLAN - DRY DRAW

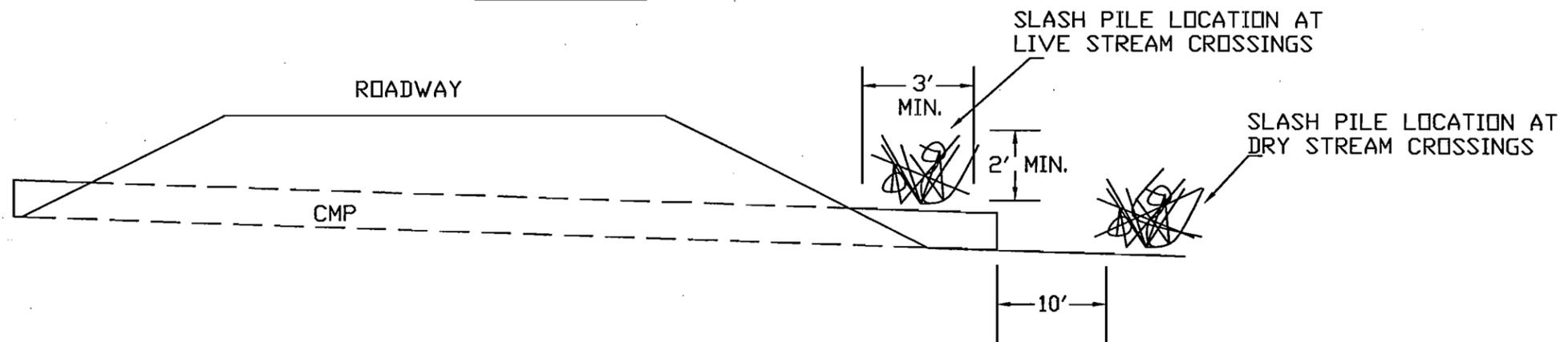


PILING CONSTRUCTION
SLASH TYPICAL SECTION

PLAN - WET DRAW

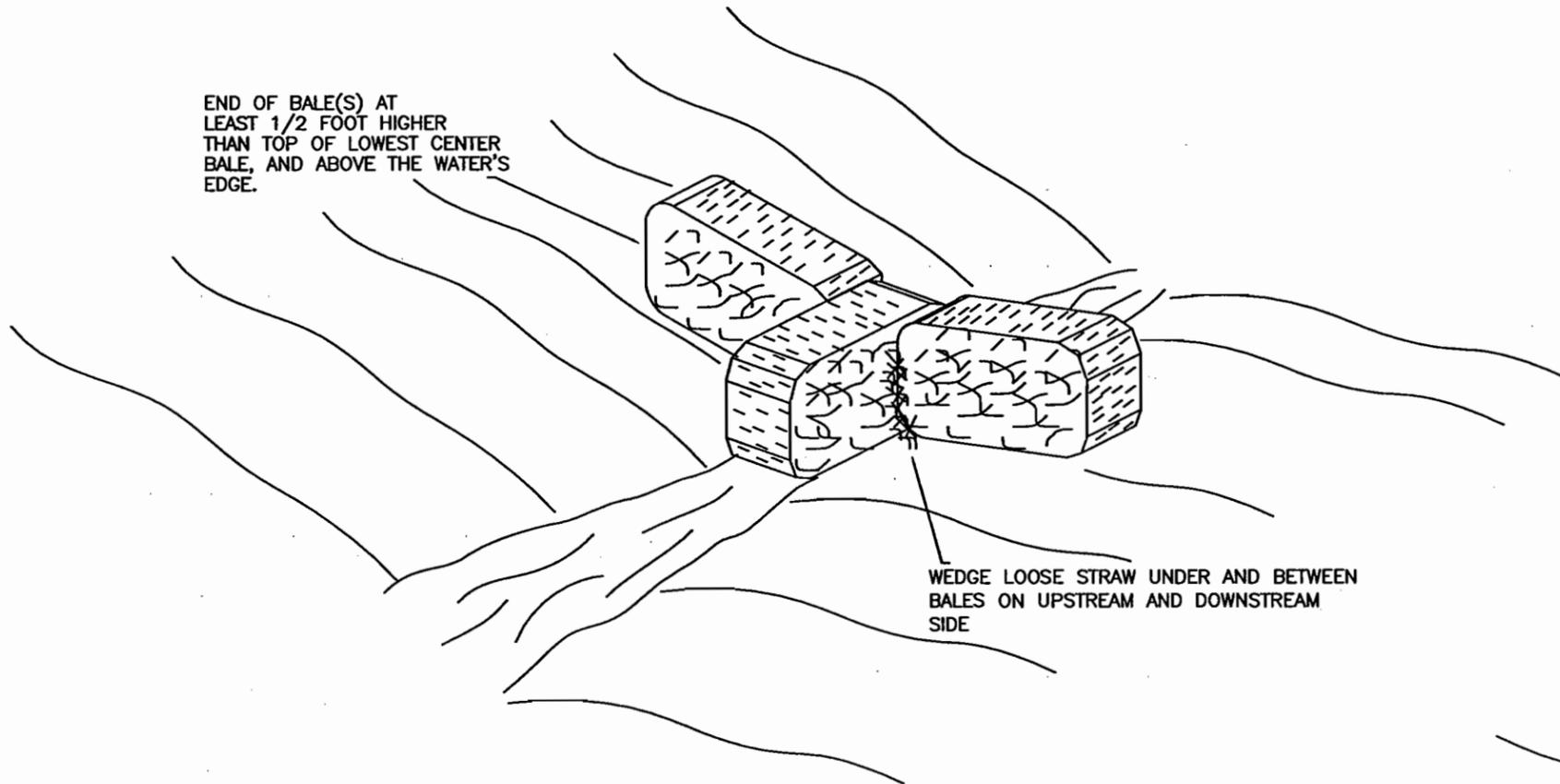


PROFILE



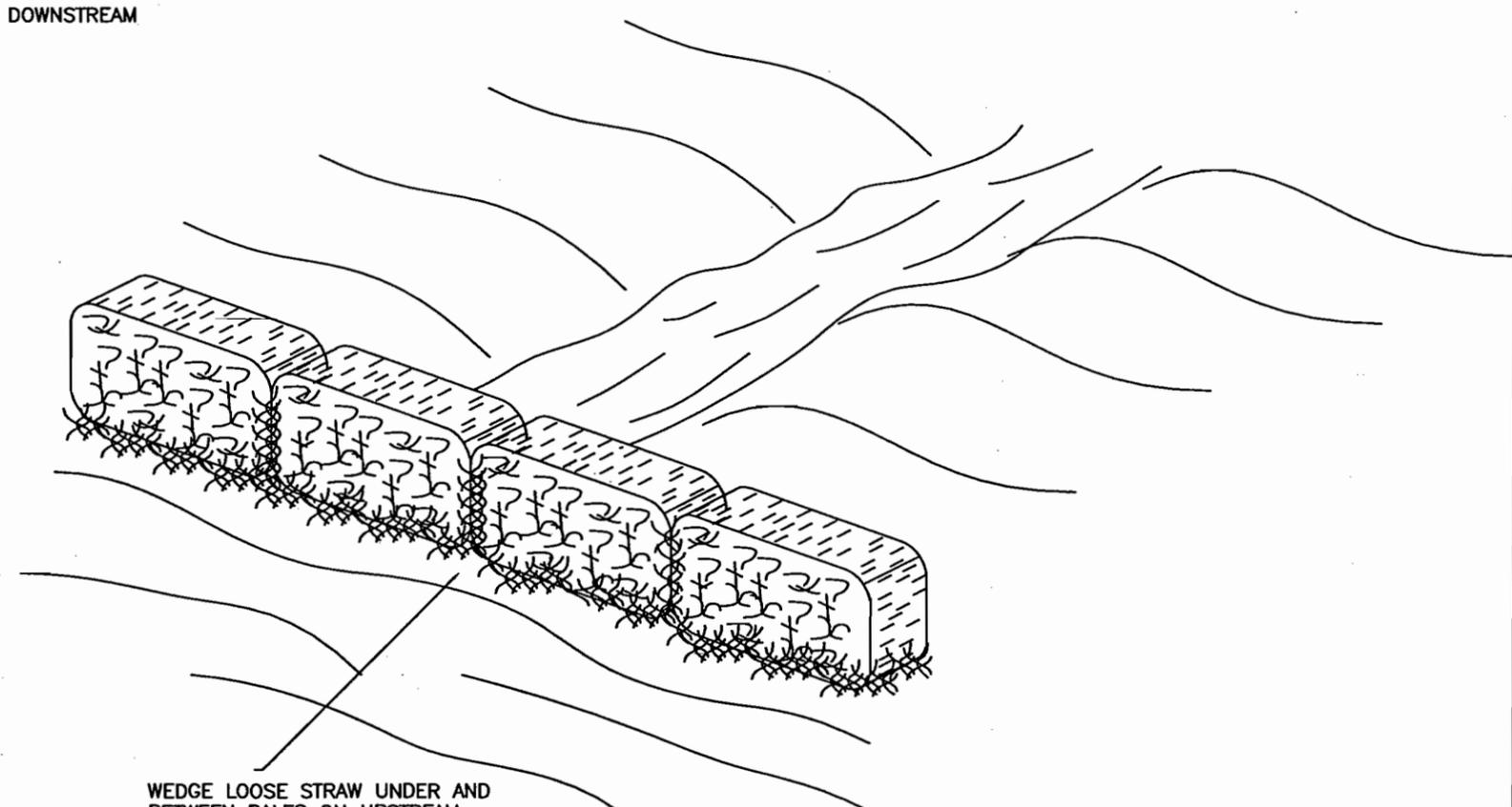
TYPE A
(FOR NARROW V BOTTOM DRAWS)

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)



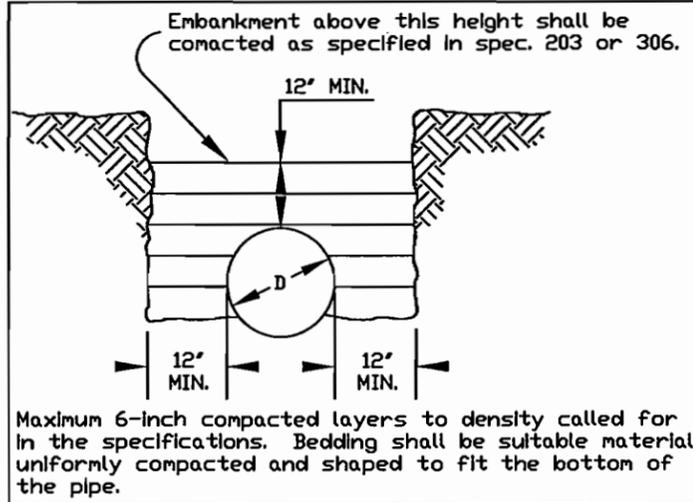
WEDGE LOOSE STRAW UNDER AND
BETWEEN BALES ON UPSTREAM
AND DOWNSTREAM SIDE

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

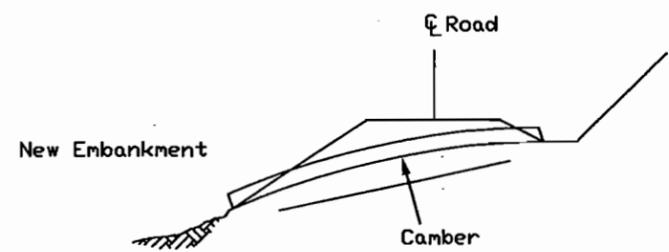
GENERAL NOTES:

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.

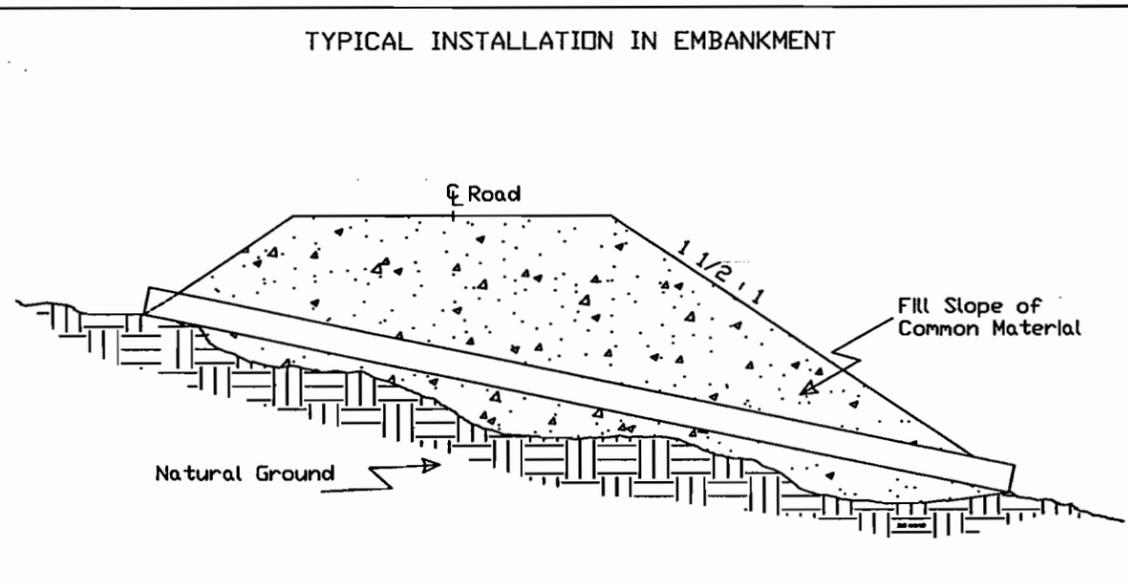
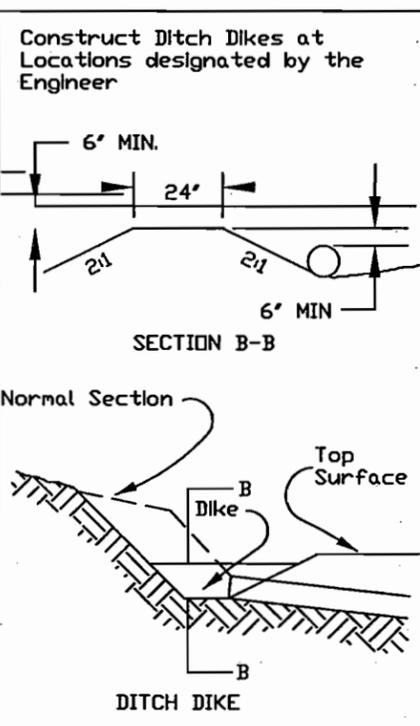
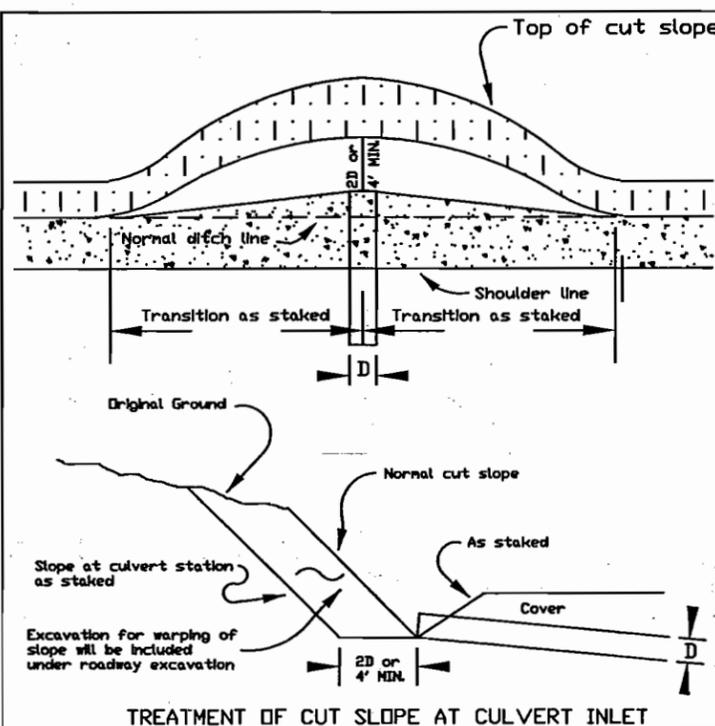
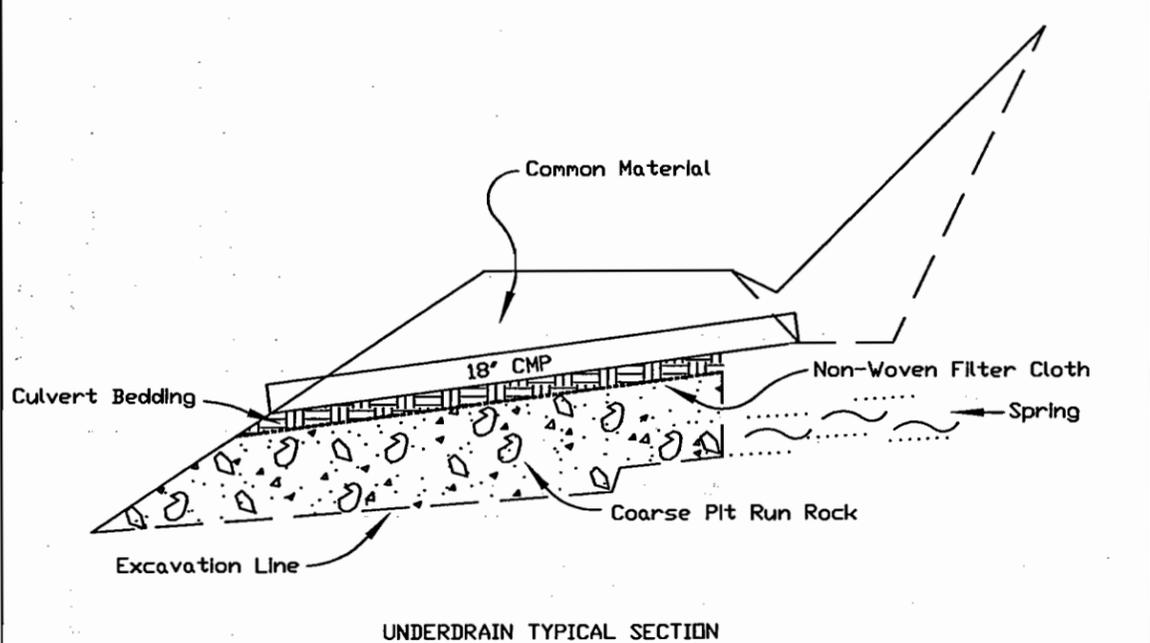
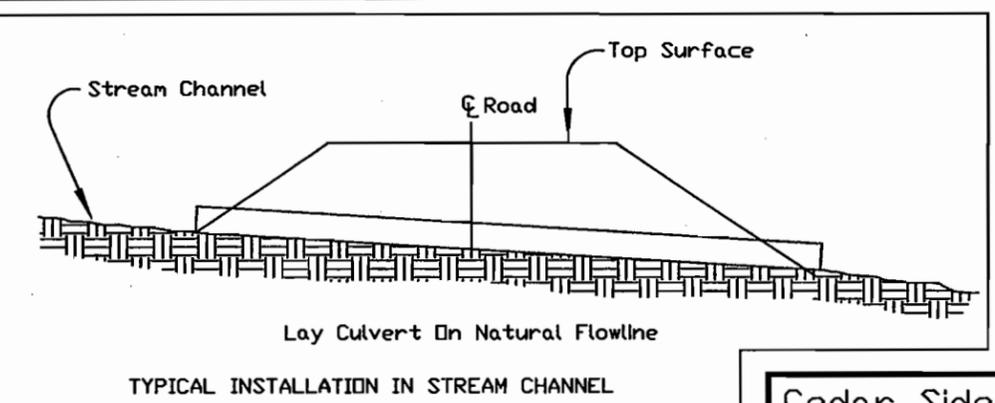
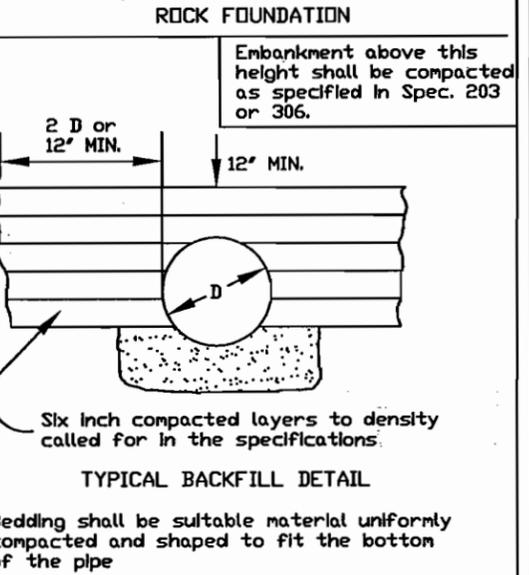
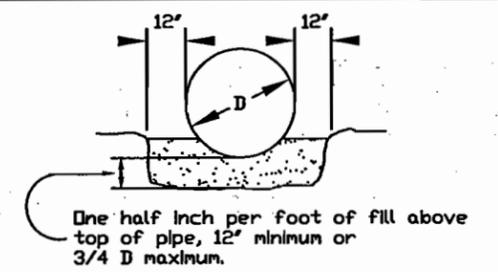
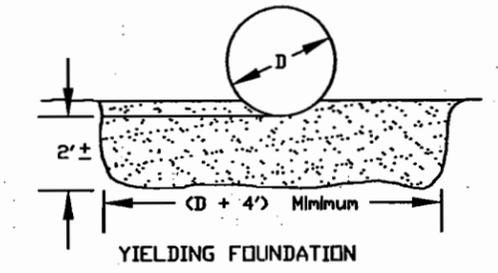
SETTLEMENT AND CAMBER: Pipes shall be cambered as necessary to compensate for any anticipated settlement in the foundation or bed. Camber shall be on a parabolic curve with no point along the invert being higher than the invert at the inlet.

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

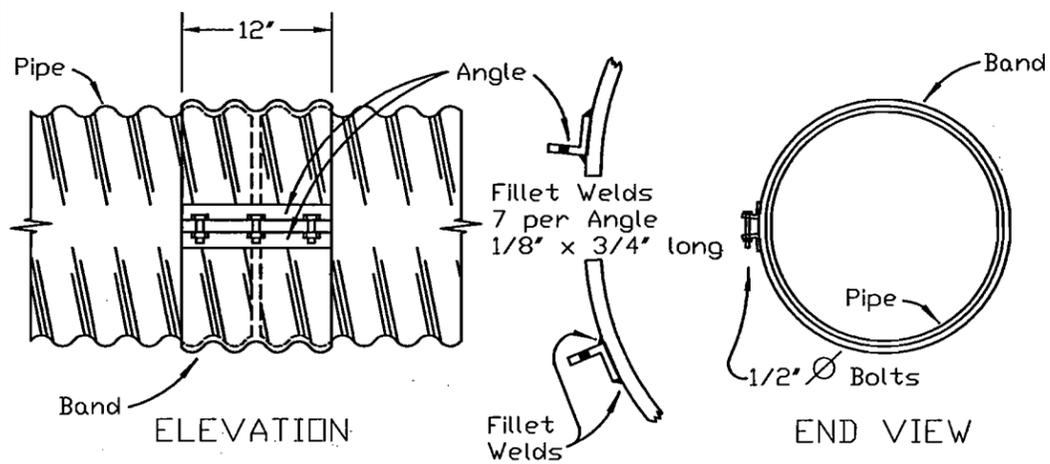
CAMBER
1% of pipe length, not to exceed 3/4 of pipe span.



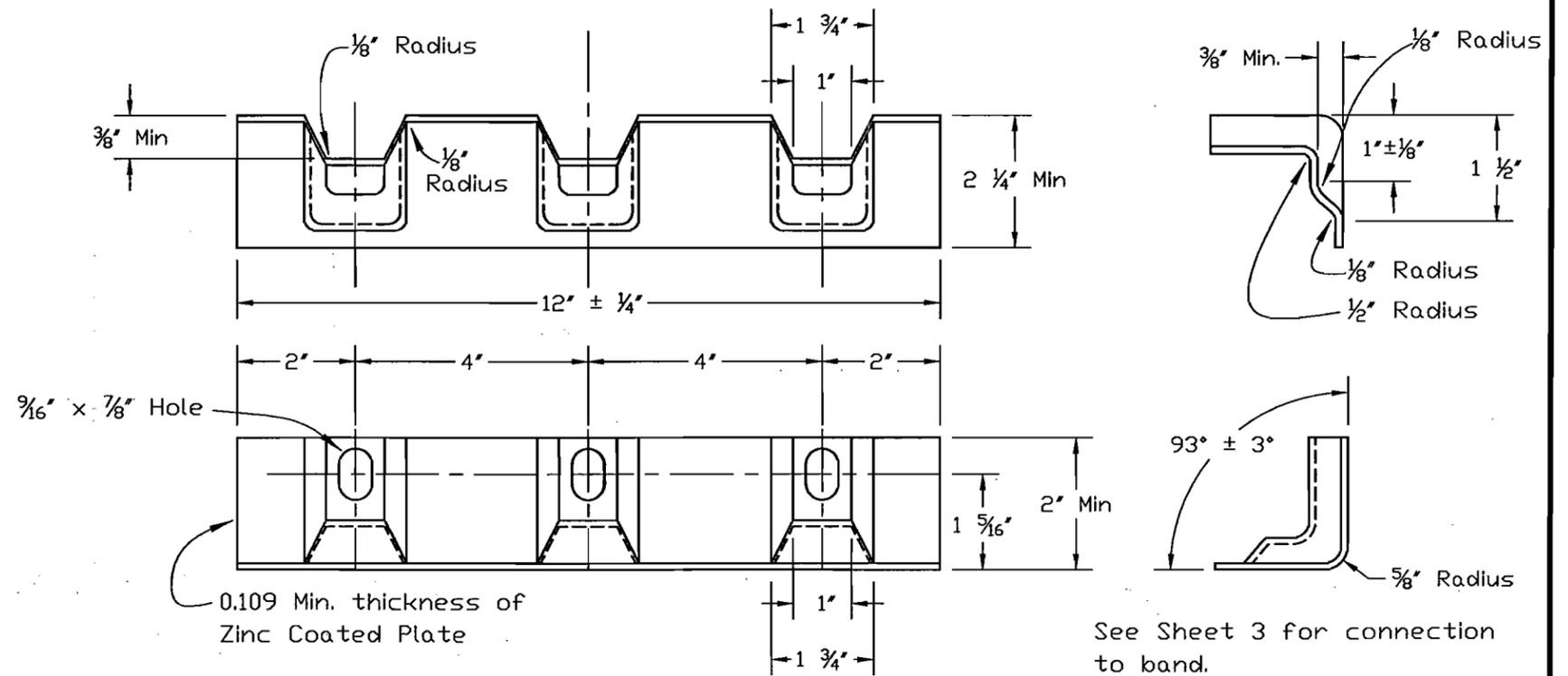
1% of pipe length, not to exceed 3/4 of pipe span or as determined by the engineer.



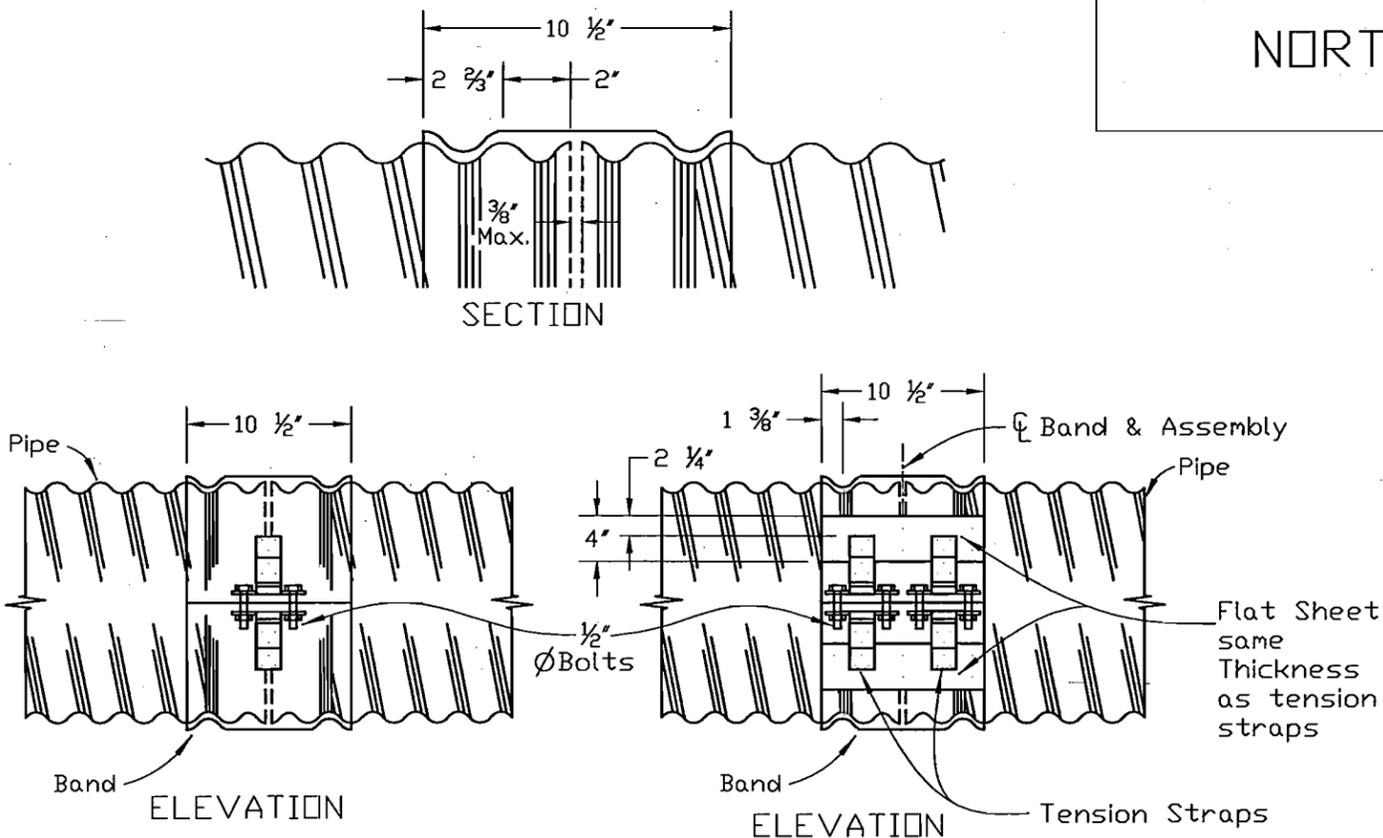
NO SCALE
CULVERT DETAILS



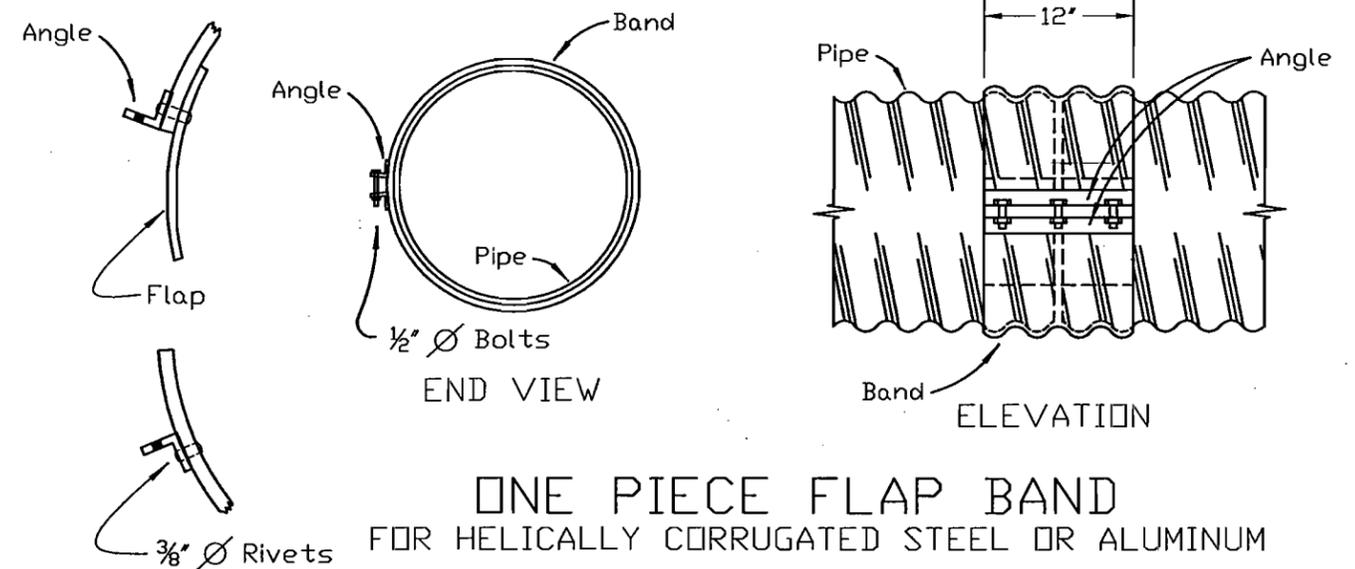
AMERICAN CULVERT BAND
FOR HELICALLY CORRUGATED STEEL PIPE



NORTHWEST CULVERT ANGLE ALTERNATIVE
FOR STEEL PIPE



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

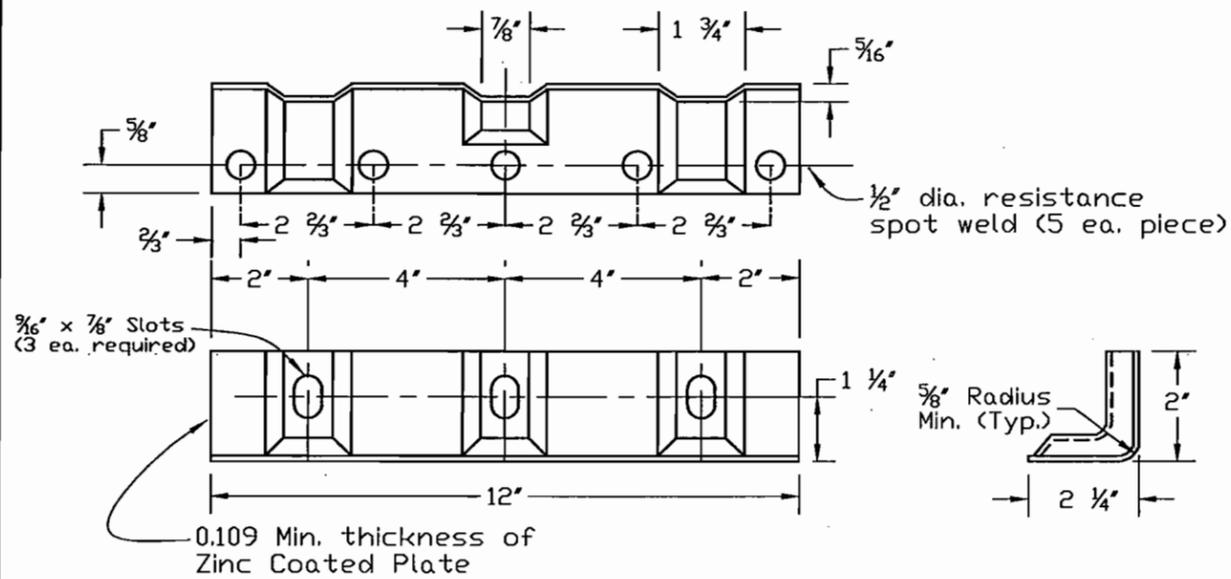


ONE PIECE FLAP BAND
FOR HELICALLY CORRUGATED STEEL OR ALUMINUM

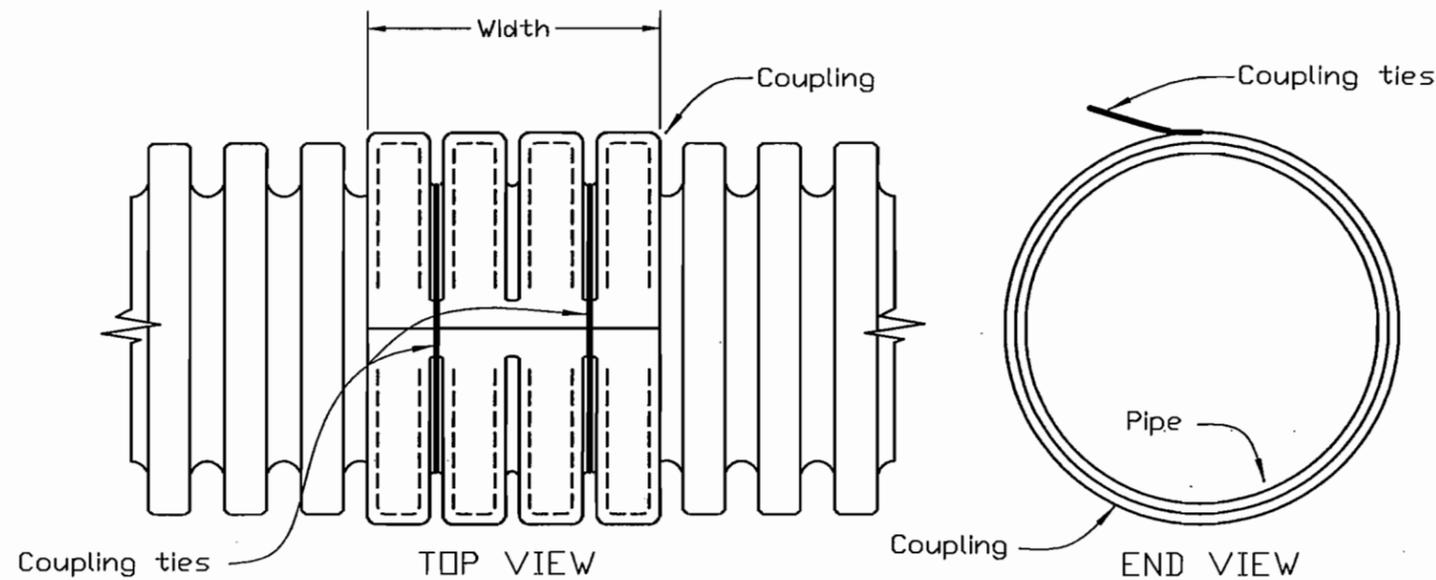
COUPLING BAND DETAILS FOR
CORRUGATED PIPE AND PIPE ARCH

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

DRAWING NO. R1690 Sheet 1 of 3

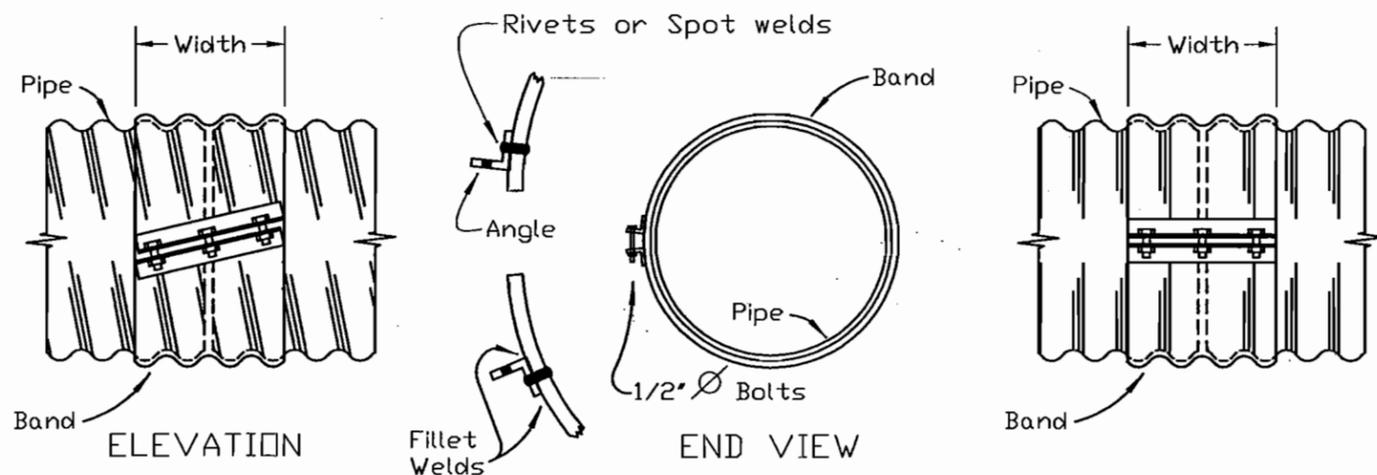


ALTERNATE FOR 2X2X3/16 ANGLE
FOR STEEL PIPE



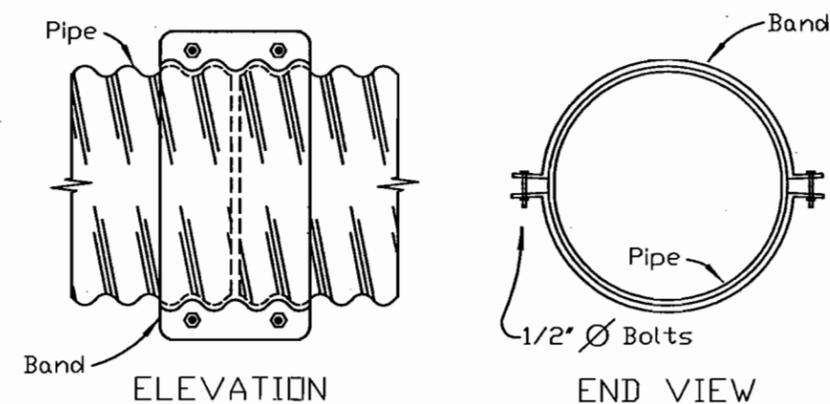
SPLIT COLLAR COUPLING
FOR ANNULAR CORRUGATED POLYETHYLENE PIPE

- 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
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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
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
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
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Cedar Side Boards T.S. Sheet 34 of 35

