

PART I - SCHEDULE OF ITEMS

SECTION B - SERVICES AND PRICES

Wapiti Beetle Salvage Timber Sale

Divide Ranger District

Rio Grande National Forest

Mineral County

B-1 - SCHEDULE OF ITEMS

ITEM NO.	DESCRIPTION	PAY. UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
20406	Unclassified borrow, compaction method_d_, finishing method_A_	Each	1	\$___347_	\$___347_
20426	Grade dips, _as per drawings_	Each	8	\$___215_	\$__1,720_
63306	Object markers, __(4) 8" x 24" Barricade Markers (L&R, 4" stripe width), (4) 6" x 12" Type II Object Markers_	Each	8	\$___30_	\$__240_
				Total	\$__2,307_

B-2 - NOTE: Payment for bond premiums in accordance with Clause 52.232-5, Payments under Fixed-Price Construction Contracts, shall not be in addition to the contract price. Include bond payments under 151.01 Mobilization. Payment will be made on actual work performed as described in FP-03 109.01 unless otherwise noted.

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Preface

Preface_wo_03_15_2004_m

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-03 for construction of National Forest System Roads.

101 - Terms, Format, and Definitions

101.00_nat_us_07_25_2005

101.01_nat_us_01_22_2009

101.01 Meaning of Terms

Delete all references to the TAR (Transportation Acquisition Regulations) in the specifications.

101.01_nat_us_01_22_2009

101.01 Meaning of Terms

Delete all references to the FAR (Federal Acquisition Regulations) in the specifications.

101.03_nat_us_06_16_2006

101.03 Abbreviations.

Add the following to (a) Acronyms:

AFPA	American Forest and Paper Association
MSHA	Mine Safety and Health Administration
NIST	<u>National Institute of Standards and Technology</u>
NESC	National Electrical Safety Code
WCLIB	West Coast Lumber Inspection Bureau

Add the following to (b) SI symbols:

mp	Milepost
ppm	Part Per Million

101.04_nat_us_03_29_2007

101.04 Definitions.

Delete the following definitions and substitute the following:

Bid Schedule--The Schedule of Items.

Bridge--No definition.

Contractor--The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the "purchaser".

Culvert--No definition.

Right-of-Way--A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private

lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

Add the following:

Adjustment in Contract Price--“Equitable adjustment,” as used in the Federal Acquisition Regulations, or “construction cost adjustment,” as used in the Timber Sale Contract, as applicable.

Change--“Change” means “change order” as used in the Federal Acquisition Regulations, or “design change” as used in the Timber Sale Contract.

Design Quantity--“Design quantity” is a Forest Service method of measurement from the FS-96 *Forest Service Specifications for the Construction of Roads and Bridges*. Under these FP specifications this term is replaced by the term “Contract Quantities”.

Forest Service--The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line--A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road--Temporary construction access built along the route of the project.

Purchaser--The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

Protected Streamcourse--A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

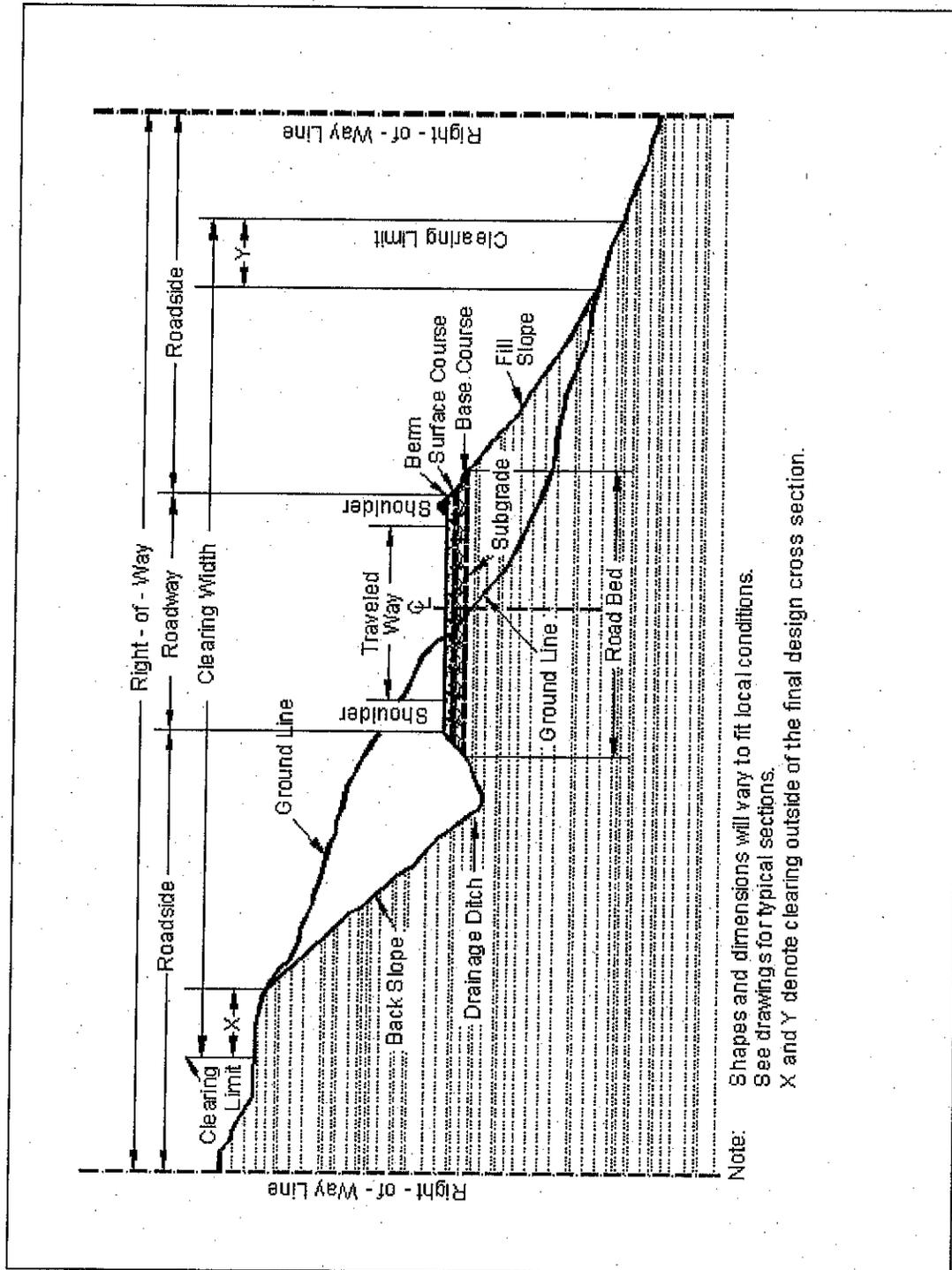
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

Schedule of Items--A schedule in the contract that contains a listing and description of construction items, quantities, units of measure, unit price, and amount.

Utilization Standards--The minimum size and percent soundness of trees described in the specifications to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

Figure 101-1—Illustration of road structure terms.



101.04 Definitions.

Delete the following definitions:
Contract Modification

Day
Notice to Proceed
Solicitation

102 - Bid, Award, and Execution of Contract

102.00_nat_us_02_16_2005

102 Bid, Award, and Execution of Contract

Delete Section 102 in its entirety.

103 - Scope of Work

103.00_nat_us_02_16_2005

Deletions

Delete all but subsection 103.01 Intent of Contract.

104 - Control of Work

104.00_nat_us_06_16_2006

Deletions

Delete Sections 104.01, 104.02, and 104.04.

104.03 Specifications and Drawings.

Delete 104.03.

104.03_nat_us_01_22_2009

Add the following subsection:

104.06_nat_us_02_17_2005

104.06 Use of Roads by Contractor

The Contractor is authorized to use roads under the jurisdiction of the Forest Service for all activities necessary to complete this contract, subject to the limitations and authorizations designated in the Road Order(s) or described in the contract, when such use will not damage the roads or national forest resources, and when traffic can be accommodated safely.

104.07_nat_us_02_17_2005

Add Subsection.

104.07 Other Contracts.

Other timber sale Purchasers may be hauling and performing maintenance activities on NFSR 522. Coordinate activities with other Purchasers.

105 - Control of Material

105.02_nat_us_01_18_2007

105.02 Material Sources.

105.02(a) Government-provided sources.

Add the following:

Comply with the requirements of 30 CFR 56, subparts B and H. Use all suitable material for aggregate regardless of size unless otherwise designated. When required, re-establish vegetation in disturbed areas according to section 625.

105.05_nat_us_05_12_2004

105.05 Use of Material Found in the Work.

Delete 105.05 (a) and (b) and the last sentence of the second paragraph and substitute the following:

Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. The Government is not obligated to make reimbursement for the cost of producing these materials.

106 - Acceptance of Work

106.01_nat_us_07_31_2007

106.01 Conformity with Contract Requirements.

Delete Subsection 106.01 and substitute the following:

References to standard test methods of AASHTO, ASTM, GSA, and other recognized standard authorities refer to the methods in effect on the date of solicitation for bids.

Perform all work to the lines, grades, cross-sections, dimensions, and processes or material requirements shown on the plans or specified in the contract.

Incorporate manufactured materials into the work according to the manufacturer's recommendations or to these specifications, whichever is more strict.

Plan dimensions and contract specification values are the values to be strived for and complied with as the design values from which any deviations are allowed. Perform work and provide material that is uniform in character and reasonably close to the prescribed value or within the specified tolerance range. The purpose of a tolerance range is to accommodate occasional minor variations from the median zone that are unavoidable for practical reasons.

When standard manufactured items are specified (such as fence, wire, plates, rolled shapes, pipe conduits, etc., that are identified by gauge, unit mass, section dimensions, etc.), the identification will be considered to be nominal masses or dimensions. Unless specific contract tolerances are noted, established manufacturing tolerances will be accepted.

The Government may inspect, sample, or test all work at any time before final acceptance of the project. When the Government tests work, copies of test reports are furnished to the Contractor upon request. Government tests may or may not be performed at the work site. If Contractor testing and inspection is verified by the Government, the Contractor's results may be used by the Government to evaluate work for acceptance. Do not rely on the availability of Government test results for process control.

Acceptable work conforming to the contract will be paid for at the contract unit bid price. Four methods of determining conformity and accepting work are described in Subsections 106.02 to 106.05 inclusive. The primary method of acceptance is specified in each Section of work. However, work may be rejected at any time it is found by any of the methods not to comply with the contract.

Remove and replace work that does not conform to the contract, or to prevailing industry standards where no specific contract requirements are noted, at no cost to the Government.

- (a) **Disputing Government test results. If the accuracy of Government test results is disputed, promptly inform the CO. If the dispute is unresolved after reasonable steps are taken to resolve the dispute, further evaluation may be obtained by written**

request. Include a narrative describing the dispute and a proposed resolution protocol that addresses the following:

- (1) Sampling method;**
- (2) Number of samples;**
- (3) Sample transport;**
- (4) Test procedures;**
- (5) Testing laboratories;**
- (6) Reporting;**
- (7) Estimated time and costs; and**
- (8) Validation process.**

If the evaluation requires additional sampling or testing be performed, mutually agree with the Government on witnessing procedures and on sampling and testing by a third party laboratory. Use a third party laboratory accredited by the AASHTO accreditation program. Provide proof of the laboratory's accreditation for the test procedures to be used. Do not use the same laboratory that produced the disputed Government test results or that produced the test results used as a basis for the dispute.

The CO will review the proposed resolution protocol and may modify it before final approval and execution.

The Government will use the approved resolution protocol test results to determine the validity of the disputed testing. If the Government test results are validated, the Contractor will be responsible for all costs associated with developing and performing the resolution protocol. If the Government test results are not validated, the Government will be responsible for all costs associated with developing and performing the resolution protocol. If the validity of the Government test results cannot be determined, the Contractor and Government will equally share all costs associated with developing and carrying out the resolution protocol.

(b) Alternatives to removing and replacing non-conforming work. As an alternative to removal and replacement, the Contractor may submit a written request to:

- (1) Have the work accepted at a reduced price; or**
- (2) Be given permission to perform corrective measures to bring the work into conformity.**

The request must contain supporting rationale and documentation. Include references or data justifying the proposal based on an evaluation of test results, effect on service life, value of material or work, quality, aesthetics, and other tangible engineering basis. The CO will determine disposition of the nonconforming work.

106.07 Delete

Delete subsection 106.07.

107 - Legal Relations and Responsibility to the Public

107.05_nat_us_05_11_2004

107.05 Responsibility for Damage Claims.

Delete the entire subsection.

107.06_nat_us_06_16_2006

107.06 Contractor's Responsibility for Work.

Delete the following from the first paragraph.

“except as provided in Subsection 106.07”.

107.08_nat_us_03_29_2005

107.08 Sanitation, Health, and Safety

Delete the entire subsection.

107.09_nat_us_06_16_2006

107.09 Legal Relationship of the Parties.

Delete the entire subsection.

107.10_nat_us_06_16_2006

107.10 Environmental Protection.

Add the following:

Design and locate equipment repair shops, stationary refueling sites, or other facilities to minimize the potential and impacts of hazardous material spills on Government land.

Before beginning any work, submit a Hazardous Spill Plan. List actions to be taken in the event of a spill. Incorporate preventive measures to be taken, such as the location of mobile refueling facilities, storage and handling of hazardous materials, and similar information. Immediately notify the CO of all hazardous material spills. Provide a written narrative report form no later than 24 hours after the initial report and include the following:

- Description of the item spilled (including identity, quantity, manifest number, and other identifying information).
- Whether amount spilled is EPA or state reportable, and if so whether it was reported, and to whom.
- Exact time and location of spill including a description of the area involved.
- Containment procedures.
- Summary of any communications the Contractor had with news media, Federal, state and local regulatory agencies and officials, or Forest Service officials.

- Description of clean-up procedures employed or to be employed at the site including final disposition and disposal location of spill residue.

When available provide copies of all spill related clean up and closure documentation and correspondence from regulatory agencies.

The Contractor is solely responsible for all spills or leaks that occur during the performance of this contract. Clean up spills or leaks to the satisfaction of the CO and in a manner that complies with Federal, state, and local laws and regulations.

108 - Prosecution and Progress

108.00_nat_us_02_16_2005

108 Delete.

Delete Section 108 in its entirety.

109 - Measurement and Payment

109.00_nat_us_02_17_2005

109 Deletions

Delete the following entire subsections:

109.06 Pricing of Adjustments.

109.07 Eliminated Work.

109.08 Progress Payments.

109.09 Final Payment.

109.02_nat_us_06_16_2006

109.02 Measurement Terms and Definitions.

(b) Contract quantity.

Add the following:

Contract quantities will be adjusted only when there are errors in the original design of 15% or more.

Change the following:

“(b) Cubic yard” to “(c) Cubic yard”.

Add the following definition:

(p) Thousand Board Feet (Mbf). 1,000 board feet based on nominal widths, thickness, and extreme usable length of each piece of lumber or timber actually incorporated in the job. For glued laminated timber, 1,000 board feet based on actual width, thickness, and length of each piece actually incorporated in the job.

151 - Mobilization

151.03_nat_us_08_05_2005

151.03 Payment

Delete the entire subsection and add the following:

151.03 Payment

Mobilization is considered an indirect cost of this contract and will not be compensated as a separate work item.

153 - Contractor Quality Control

153.04_nat_us_10_24_2007

153.04 Records.

Delete all but the first sentence

155 - Schedules for Construction Contracts

155.00_nat_us_05_11_2004

155 Delete.

Delete Section 155 in its entirety.

156 - Public Traffic

156.00_nat_us_04_17_2007

Delete Section 156 in its entirety and replace with the following:

Description

156.01 This work consists of controlling and protecting public traffic adjacent to and within the project.

Material

156.02 Conform to the MUTCD and the following Sections and Subsections:

Construction sign panels	633
Retro-reflective sheeting	718.01
Temporary concrete barrier	618
Temporary plastic fence	710.11
Temporary traffic control devices	718.22

156.03 General. Unless otherwise provided for in Table 156-1, keep existing roads open to all traffic during road improvement work, and maintain them in a condition that will adequately accommodate traffic. Delays may not exceed 30 minutes at any one time followed by an open period of no less than 10 minutes.

Perform no work that interferes or conflicts with traffic or existing access to the roadway surface until a traffic control plan has been approved. Post construction signs and traffic control devices in conformance with MUTCD. All required signs will be in place and approved prior to beginning work on project.

If the Contractor agrees in writing to allow public traffic to use a new road being constructed prior to completion, it will be considered an existing road for traffic control purposes.

156.04 Temporary Traffic Control. Install and maintain temporary traffic control devices adjacent to and within the project as required by the approved traffic control plan and the MUTCD. Install and maintain traffic control devices as follows:

- (a) Furnish and install traffic control devices before the start of construction operations.
- (b) All detours outside of clearing limits will be approved in writing by the Contracting Officer as part of the traffic control plan.
- (c) Install only those traffic control devices needed for each stage or phase.
- (d) Relocate temporary traffic control devices as necessary.
- (e) Remove devices that no longer apply to the existing conditions.
- (f) Immediately replace any device that is lost, stolen, destroyed, or inoperative.
- (g) Keep temporary traffic control devices clean.
- (h) Remove all temporary traffic control devices upon contract completion or when approved.

- (i) When required, use flaggers certified by the American Traffic Safety Services Association, the National Safety Council, the International Municipal Signal Association, a state agency, or other acceptable organization. Perform the work described under MUTCD Part 6. Use type III, VII, VIII, or IX retroreflective sheeting on flagger paddles. Do not use flags. Flaggers must wear high visibility safety apparel as required by MUTCD 6E.02.

156.05 Temporary Closures. Road segments may be closed as shown in Table 156-1. The maximum consecutive days of closure shall be followed by a minimum number of consecutive days open to traffic as shown. Maintain traffic control devices during closure period(s). Appropriate barricades and signs will be erected and maintained as shown in the traffic control plan or as otherwise designated.

Prior to closing roads during construction, give written notice to the Contracting Officer at least 10 days in advance.

**Table 156-1
Temporary Road Closures**

Road Number	From Terminus	To Terminus	Maximum Consecutive Days of Closure	Minimum Consecutive Days Open

156.06 Acceptance. Public traffic work will be evaluated under Subsection 106.02.

Measurement and Payment

156.07 Do not measure Public Traffic for payment. Compensation is made as an indirect payment.

204 - Excavation and Embankment

204.06_nat_us_03_02_2005

204.06 Roadway Excavation

(a) General.

Add the following:

Retrieve material deposited outside of the clearing limits as directed by the CO. Place unsuitable material in designated areas.

204.09_nat_us_03_02_2005

204.09 Preparing Foundation for Embankment Construction.

Delete subsection (a) and replace it with the following:

(a) Embankment less than 4 feet high over natural ground. When designated, remove topsoil and break up the ground surface to a minimum depth of 6 inches by plowing or scarifying. Compact the ground surface according to Subsection 204.11.

204.11_nat_us_04_11_2005

204.11 Compaction.

Delete the first paragraph and replace it with the following:

For compaction according to method (a), (b), or (c), use AASHTO T 27 to determine the amount of material retained on a Number. 4 sieve. For compaction methods (d) or (e) no sieve test is required.

Add the following compaction methods:

(d) Layer Placement Method (Hauling and Spreading Equipment). Place material by end dumping to the minimum depth needed for operation of spreading equipment. Level and smooth each embankment layer before placing the next layers. Operate hauling and spreading equipment uniformly over the full width of each layer. Construct a solid embankment with adequate compaction by working smaller rock and fines in with the larger rocks to fill the voids, and by operating hauling and spreading equipment uniformly over the full width of each layer as the embankment is constructed.

(e) Layer Placement (Roller Compaction) Method. Place material by end dumping to the minimum depth needed for operation of spreading equipment. Adjust the moisture content of the material to obtain a mass that will not visibly deflect under the load of the hauling and spreading equipment. Operate compaction equipment over the full width of each layer until visible deformation of the layer ceases or, in when a sheepsfoot roller is used, the roller "walks out" of the layer. Make at least three complete passes.

204.13_nat_us_03_02_2005

204.13 Sloping, Shaping, and Finishing.

(a) Sloping.

Add the following:

Slope rounding is not required on tolerance class D through M roads.

204.13 Sloping, Shaping, and Finishing.

Delete section (d) and add the following:

(d) Finishing. For surfaced roads, remove all material larger than 6 inches from the top 6 inches of the roadbed. For all roads, finish the roadbed to be smooth and uniform, and shaped to conform to the typical sections. Remove unsuitable material from the roadbed and replace it with suitable material. Finish roadbeds to the tolerance class shown in table 204-2.

Ensure that the subgrade for both surfaced and unsurfaced roads is visibly moist during shaping and dressing. Scarify to 6 inches below the bottom of low sections, holes, cracks, or depressions and bring back to grade with suitable material. Maintain proper ditch drainage.

For unsurfaced roads, use one of the following methods to finish the roadbed:

- (1) Method A. Remove all material larger than 6 inches from the top 6 inches of the roadbed and replace with suitable material.
- (2) Method B. Use a vibratory grid roller or approved equal with a minimum weight of 10 tons. Roll at least 5 full-width passes or until visible displacement ceases.
- (3) Method C. For roads designated as Construction Tolerance Class K, L, or M, finish the roadbed by spreading the excavation. Eliminate rock berms.

Add Table 204-2—Construction Tolerances:

Table 204-2 Construction tolerances.

	Tolerance Class ^(a)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
Roadbed width (ft)	+0.5	+0.5	+1.0	+1.0	+1.0	+1.0	+1.5	+1.0	+2.0	+2.0	+2.0	+2.0	+2.0
Subgrade elevation (ft)	±0.1	±0.2	±0.2	±0.5	+0.5	±1.0	±1.0	±1.5	±2.0	±3.0	±2.0	±3.0	(c)
Centerline alignment (ft)	±0.2	±0.2	±0.5	±0.5	±1.0	±1.0	±1.5	±1.5	±2.0	±3.0	±3.0	±5.0	(c)
Slopes, excavation, and embankment (% slope ^(b))	±3	±5	±5	±5	±5	±5	±10	±10	±10	±10	±20	±20	±20

a. Maximum allowable deviation from construction stakes and drawings.

b. Maximum allowable deviation from staked slope measured from slope stakes or hinge points.

c. Unless otherwise shown the centerline alignment and subgrade elevation, as built, have no horizontal curves with a radius of less than 80 feet, and no vertical curves with a curve length of less than 80 feet when the algebraic difference in the grade change is less than 10 percent, or a curve length of less than 100 feet when the algebraic difference of the grade change is greater than or equal to 10 percent. The centerline grade is not to exceed 20 percent in 100 feet of length.

204.14 Disposal of Unsuitable or Excess Material.

Delete the text of the first paragraph and substitute the following:

Dispose of unsuitable or excess material at designated sites or legally off of the project.

633 - Permanent Traffic Control

633.02_nat_us_03_03_2005

633.02 Material.

Add the following subsections

Protective Overlay Film	718.02
Edge Film	718.02

633.03_nat_us_03_03_2005

633.03 General.

Delete the subsection and add the following:

Furnish traffic control devices and guide signs according to the MUTCD, approved USDA-FS and state supplements, the current edition of USDA-FS EM-7100-15 Sign and Poster Guidelines for the Forest Service, and Standard Highway Signs published by FHWA. Submit the sign list for approval before ordering.

633.05_nat_us_03_03_2005

633.05 Panels.

Add the following:

Apply protective overlay film and top edge film as required and according to with manufacturer's recommendations.

Delete the sentence: "Use antitheft fasteners where possible" in the fifth paragraph and replace it with the following: "For each sign panel use at least one antitheft fastener."

718 - Traffic Signing and Marking Material

718.02_nat_us_03_02_2005

718.02 Reserved.

Replace this section with the following:

718.02 Protective Overlay Film and Edge Film.

Protective overlay film will be a high performance fluoropolymer film such as 3M Scotchlite Premium Protective Overlay Film Series 1160 or approved equal.

Edge film will be a pressure-sensitive, premium-quality, clear, ultraviolet-resistant, 3 inches wide vinyl film.

718.05_nat_us_08_05_2009

718.05 Aluminum Panels

Delete the third paragraph and replace with the following:

Clean, degrease and properly prepare the panels according to methods recommended by the sheeting manufacturer. Conversion coatings will conform to ASTM B-921 or ASTM B-449.

RIO GRANDE NATIONAL FOREST

U.S. Department of Agriculture
Forest Service
Rocky Mountain Region

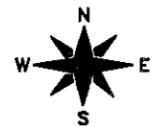
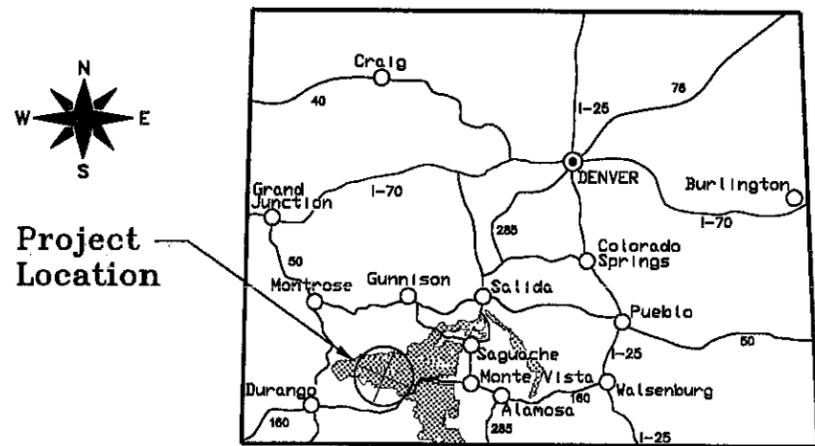
WAPITI BEETLE SALVAGE TIMBER SALE ROAD RECONSTRUCTION

DIVIDE RANGER DISTRICT

Mineral County, Colorado

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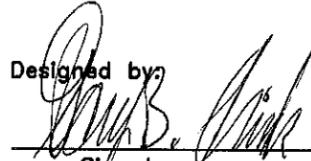
Project Location

LEGEND

 RIO GRANDE NATIONAL FOREST

COLORADO

COLORADO STATE LOCATION MAP
NOT TO SCALE

Designed by:

Signature

Engineering Technician
Title

01/23/13
Date

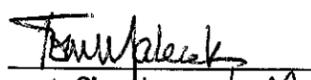
The design and review of this project has been accomplished by qualified personnel and the design is consistent with current policy and direction.


Signature

Forest Engineer
Title

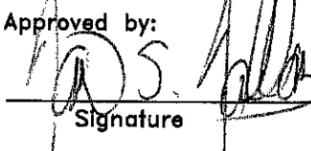
1-23-13
Date

The design objectives have been accomplished, the project will serve intended uses, all appropriate NEPA requirements have been met, and the design is consistent with approved resource planning documents and is in the program of work.


Signature

District Ranger
Title

1/24/13
Date

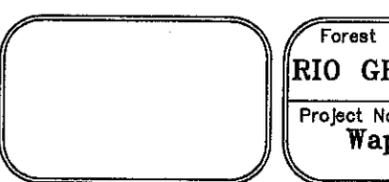
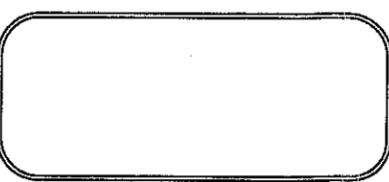
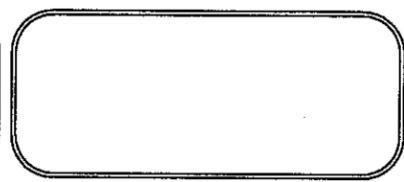
Approved by:

Signature

Forest Supervisor
Title

01/24/2013
Date

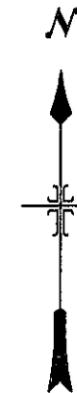
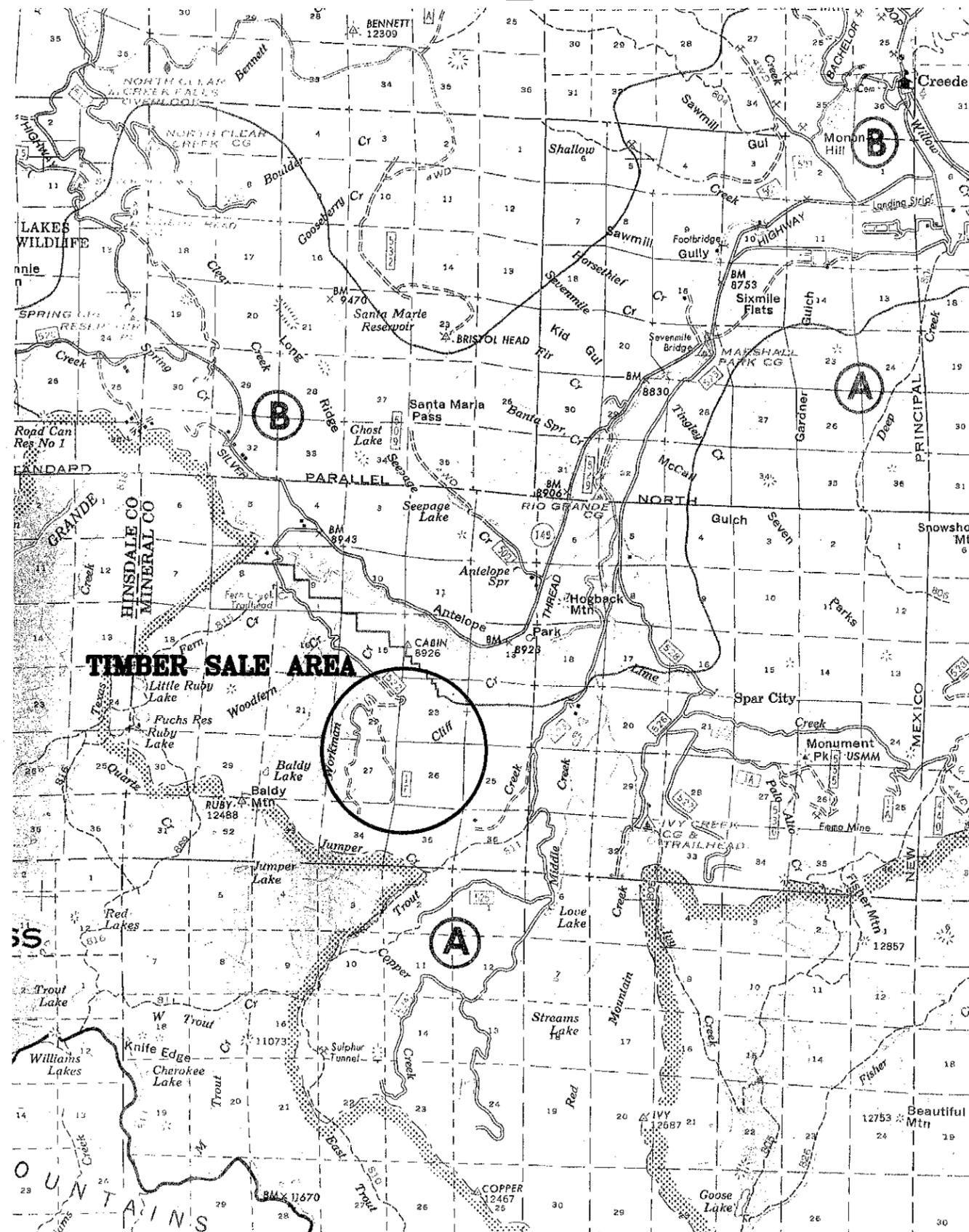
U.S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE
ROCKY MOUNTAIN REGION



Forest
RIO GRANDE NATIONAL FOREST
Project Name
Wapiti Beetle Salvage TS
Road Reconstruction

Sheet Title
TITLE SHEET
Scale
NONE
Sheet 1
of 13



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FOREST SERVICE
ROCKY MOUNTAIN REGION

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Design G.B. Frink
Checked JEM
Reviewed JEM

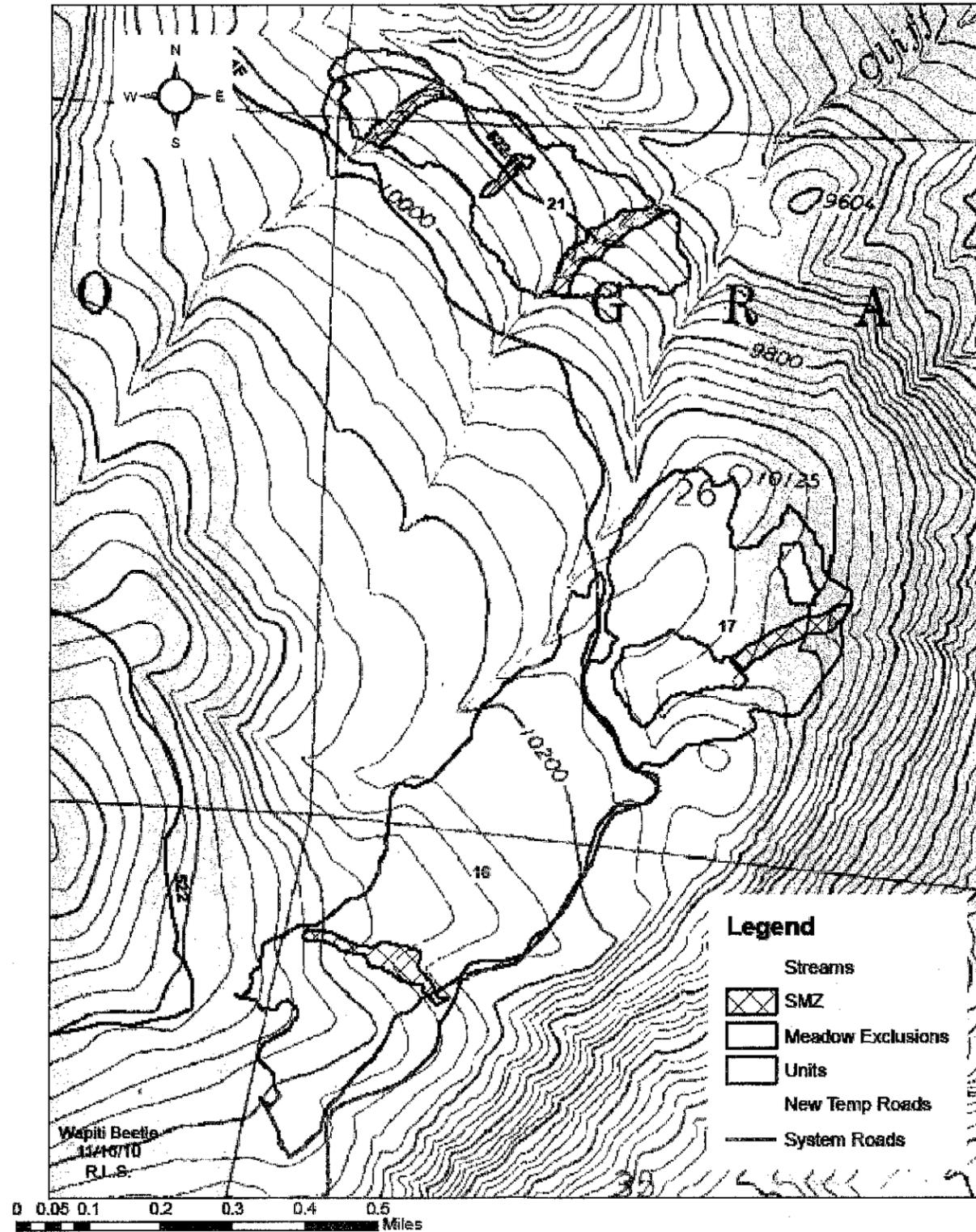
Forest
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Sheet Title
LOCATION MAP

Scale
NONE

Sheet **2**
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Wapiti Beetle Pre-Sale Map



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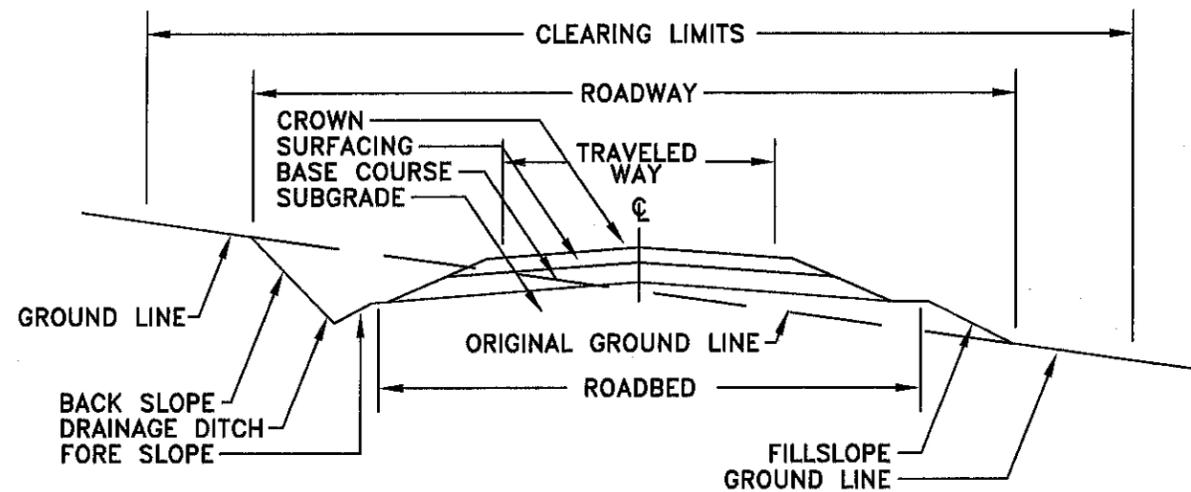
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Sheet Title
VICINITY MAP

Scale
NONE

Sheet **3**
of **13**

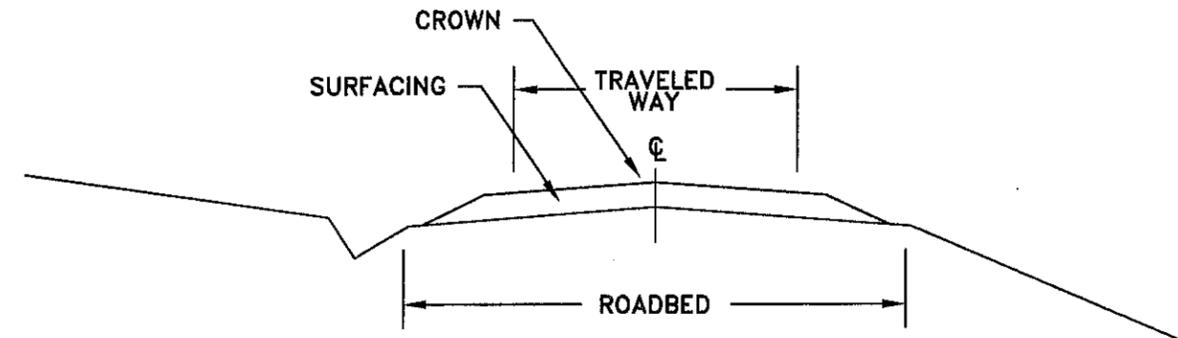


ROAD STRUCTURE DETAILS

NOT TO SCALE

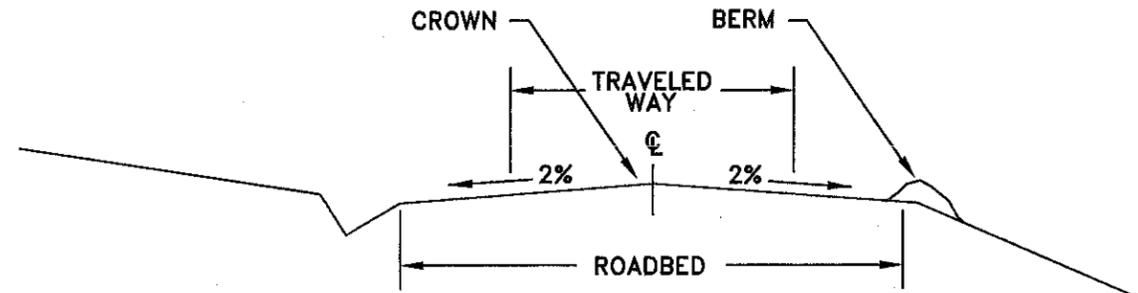
NOTES:

1. THIS IS A CONCEPTUAL DRAWING FOR A CROWNED ROADWAY WITH DITCH.
2. TEMPLATE SHAPE AND DIMENSIONS WILL VARY WITH LOCAL CONDITIONS.



AGGREGATE SURFACING SECTION

NOT TO SCALE



NATIVE MATERIAL SECTION

NOT TO SCALE

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Road Reconstruction**

Sheet Title
ILLUSTRATION OF TERMS
Scale
NONE
Sheet **4**
of **13**

NOTES:

1. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, HEREINAFTER REFERRED TO AS FP-03 (U.S. CUSTOMARY UNITS), AND FOREST SERVICE SUPPLEMENTAL SPECIFICATIONS (FSSS) WILL BE USED.
2. PURCHASER SHALL BE RESPONSIBLE FOR FURNISHING, ERECTING, AND MAINTAINING CONSTRUCTION SIGNS FOR TRAFFIC CONTROL WHICH SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. MOBILIZATION IS INCIDENTAL TO OTHER ITEMS.
4. CLEARING REQUIRED FOR RECONSTRUCTION, MAINTENANCE, OR INSTALLATION OF OUTLET DITCHES, DRAINAGE STRUCTURES, AND CULVERT INSTALLATIONS IS INCIDENTAL TO THAT WORK REQUIREMENT.
5. SUBMIT A SOIL EROSION AND POLLUTION PLAN FOR APPROVAL. WATER, EROSION, AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO BEGINNING EARTH DISTURBING ACTIVITIES. THIS WORK IS INCIDENTAL TO THE OTHER WORK ITEMS.

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Forest
RIO GRANDE NATIONAL FOREST
Project Name
Wapiti Beetle Salvage TS
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Sheet Title GENERAL NOTES	
Scale NONE	Sheet 5 of 13



R11-2
48" x 30" MIN.



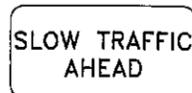
LW21-15
30" x 30" MIN.



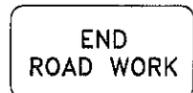
W3-4
30" x 30" MIN.



FW20-1-30
30" x 30" MIN.



W23-1
48" x 24" MIN.



G20-2
36" x 18" MIN.



W20-2d
24" x 24" MIN.



W20-2
24" x 24" MIN.



M4-10
48" x 18"
RIGHT OR LEFT



FW-22-1-30
30" x 30" MIN.



FW22-2-30
36" x 30" MIN.



FW-22-3-30
36" x 30" MIN.



W21-1a
30" x 30" MIN.



W21-7a
30" x 30" MIN.



W8-8
24" x 24" MIN.



W5-3
24" x 24" MIN.



W8-6
24" x 24" MIN.



W8-7
24" x 24" MIN.



W21-2
24" x 24" MIN.

NOTES:

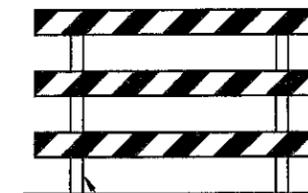
- ALL TRAFFIC CONTROL DEVICES SHALL BE CONSTRUCTED, LOCATED, INSTALLED, AND MAINTAINED ACCORDING TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), LATEST EDITION, PARTS 1, 5, AND 6.
- SIGNS SHALL BE MADE FROM SUITABLE MATERIALS WHICH ARE IN ACCORDANCE WITH ALL STATE AND FEDERAL SPECIFICATIONS.
- SIGNS SHALL BE LOCATED WHERE THEY WILL BE CONSPICUOUSLY VISIBLE ON THE RIGHT SIDE OF THE ROADWAY FACING APPROACHING TRAFFIC.
- WHEN A SIGN IS REQUIRED FOR AN EXTENDED PERIOD, IT SHALL BE FASTENED TO 4 X 4 INCH WOODEN OR U-CHANNEL POST. PORTABLE SUPPORTS ARE PERMITTED FOR SHORT PERIODS PROVIDED THAT THEY CANNOT READILY BE OVER-TURNED AND THAT THE BASE OF THE SIGN IS A MINIMUM OF ONE FOOT ABOVE THE ROAD SURFACE.
- CONSTRUCTION WARNING SIGNS SHALL BE PLACED ON ALL MAJOR INTERSECTIONS ACCESSING THE WORK AREA.
- SELECTION AND PLACEMENT OF ALL SIGNS SHALL BE SUBJECT TO APPROVAL OF THE CONTRACTING OFFICER. SIGNS OTHER THAN THOSE PICTURED MAY BE USED PROVIDED THEY ARE IN CONFORMANCE WITH MUTCD STANDARDS AND APPROVED IN WRITING BY THE CONTRACTING OFFICER.
- IF REQUIRED BY THE CONTRACTING OFFICER, LIGHTING DEVICES SUCH AS FLASHERS, TORCHES, LANTERNS, AND ELECTRIC LIGHTS SHALL BE PLACED AND MAINTAINED FROM SUNSET TO SUNRISE AT POINTS OF HAZARD.
- ALL SIGNS ARE TEMPORARY UNLESS SHOWN ON THE SCHEDULE OF ITEMS. TEMPORARY SIGNS ARE INCIDENTAL TO OTHER WORK ITEMS.
- TYPE III BARRICADES SHALL BE PLACED AT UNCOMPLETED CONSTRUCTION SITES WHEN NO CONSTRUCTION ACTIVITIES ARE IN PROGRESS AS DIRECTED BY THE CONTRACTING OFFICER.



TYPE I BARRICADE

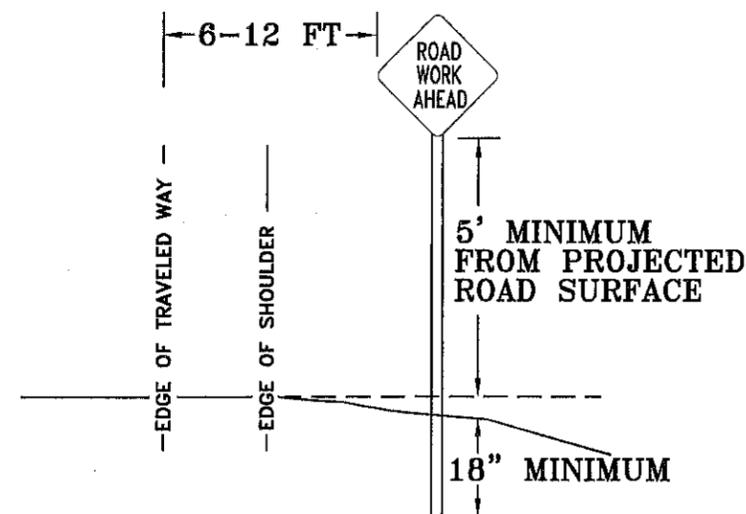


TYPE II BARRICADE

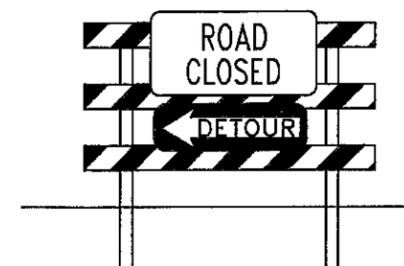


TYPE III BARRICADE

NOTE: STRIPES ARE 6" WIDE, ALTERNATING ORANGE AND WHITE



TYPICAL INSTALLATIONS



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Sheet Title
 CONSTRUCTION SIGNS
 Scale
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 Sheet 8
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THIS WORK CONSISTS OF FURNISHING AND PLACING THE REQUIRED SEED MIX ON DISTURBED AREAS AS DIRECTED BY THE CO. THE WORK SHALL CONSIST OF BROADCASTING THE PRESCRIBED SEED MIX WITHIN 14 DAYS OF THE COMPLETION DATE OF WORK ON THAT SECTION.

USE HAND-OPERATED SEEDING DEVICES, OR OTHER DEVICES APPROVED BY THE GOVERNMENT, TO APPLY SEED.

FURNISH WEED-FREE SEED SEPARATELY OR IN MIXTURE IN STANDARD CONTAINERS WITH (1) SEED NAME (2) LOT NUMBER (3) NET WEIGHT (4) PERCENTAGES OF PURITY AND OF GERMINATION (5) PERCENTAGE OF MAXIMUM WEED SEED CONTENT CLEARLY MARKED FOR EACH KIND OF SEED, AND (6) CERTIFICATION THAT THE SEED LOT MEETS APPLICABLE STATE AND FEDERAL LAWS WITH REGARD TO PROHIBITED AND RESTRICTED NOXIOUS WEEDS CLEARLY MARKED FOR EACH KIND OF SEED. FURNISH THE GOVERNMENT DUPLICATE SIGNED COPIES OF THE CERTIFICATE SIGNED BY A REGISTERED SEED TECHNOLOGIST OR SEED ANALYST CERTIFYING THAT EACH LOT OF SEED HAS BEEN TESTED IN ACCORDANCE WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS STANDARDS WITHIN 12 MONTHS PRIOR TO THE DATE OF APPLICATION.

THE FOLLOWING SEED MIX SHALL BE BROADCAST OVER WASTE AREAS AND DISTURBED SITES AS DIRECTED BY THE CO:

RECOMMENDED VARIETY	PERCENT MIX	PURE LIVE SEED LBS/ACRE
SAN LUIS SLENDER WHEATGRASS	40	8.8
SODAR STREAMBANK WHEATGRASS	30	6.8
MOUNTAIN BROME, BROMAR	30	11.6
	TOTAL	27.2

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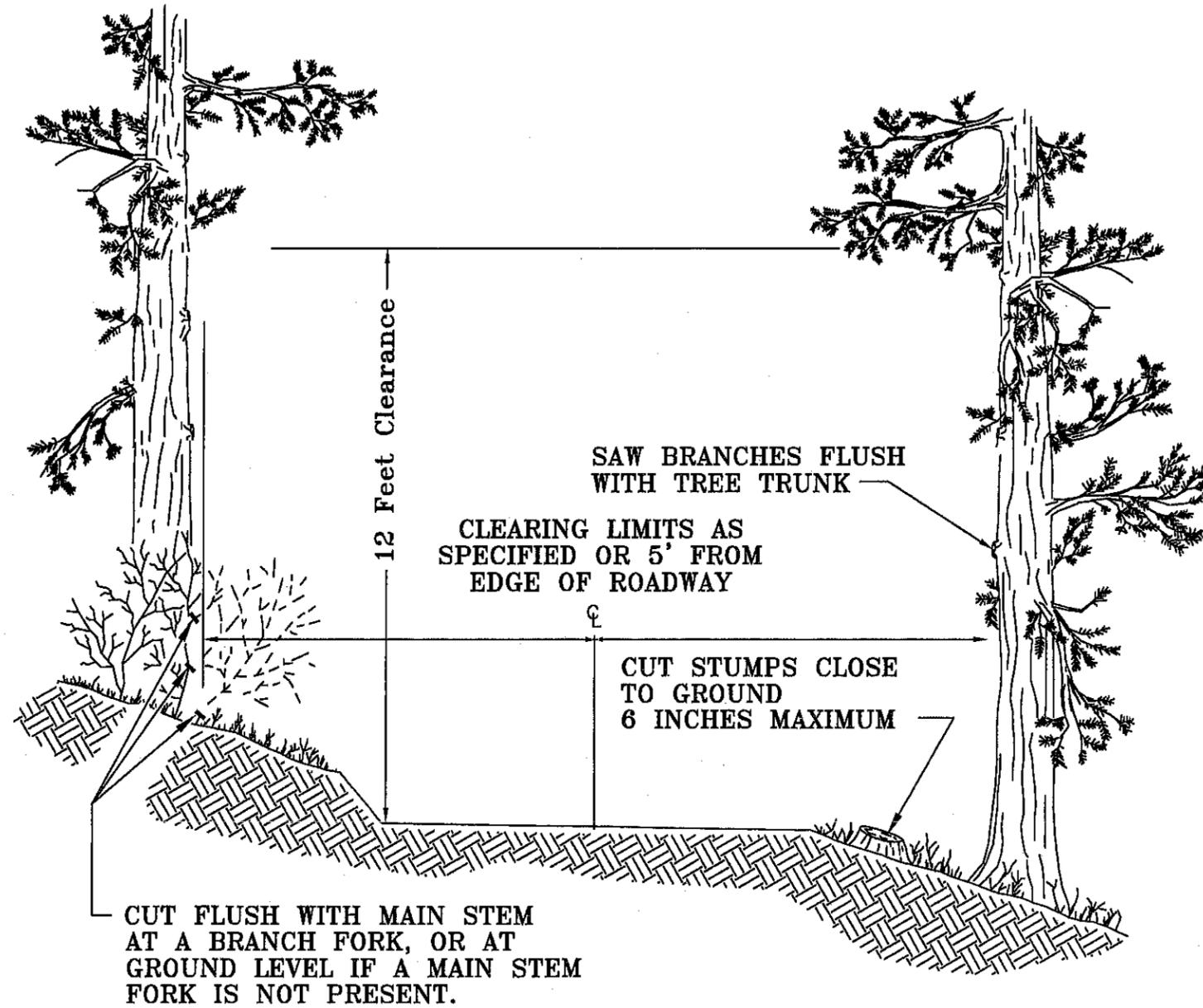


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ROCKY MOUNTAIN REGION

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Reviewed JEM

Forest
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Project Name
**Wapiti Beetle Salvage TS
Road Reconstruction**

Sheet Title
SEEDING
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NONE
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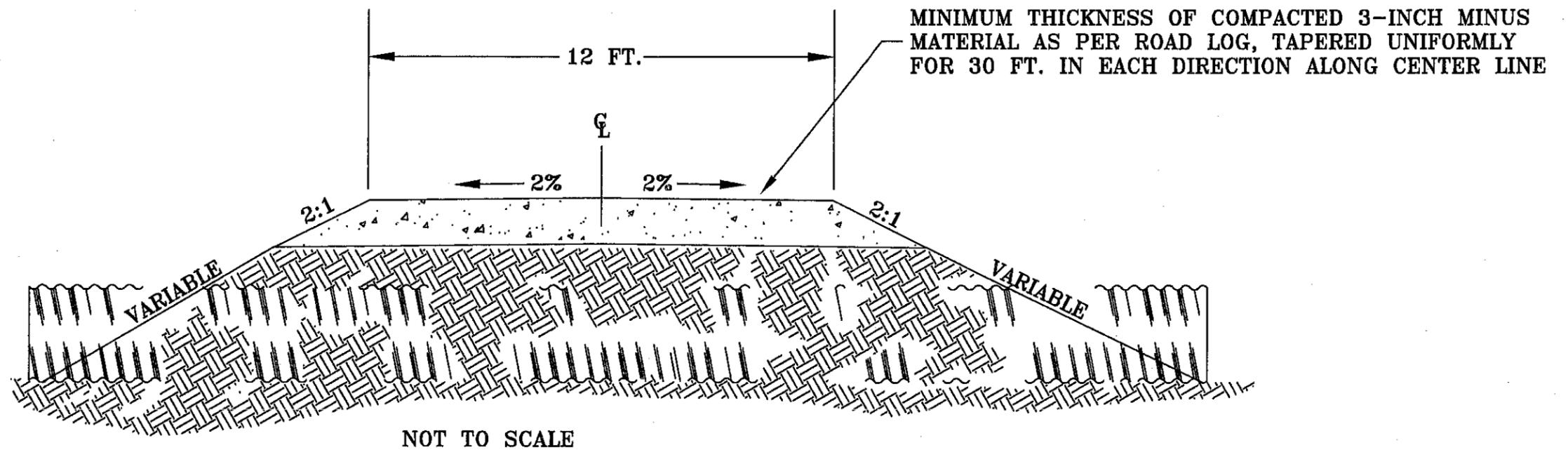


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 Design G.B.Frink
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Forest
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**Wapiti Beetle Salvage TS
 Road Reconstruction**

Sheet Title Clearing	
Scale NONE	Sheet 10 of 13



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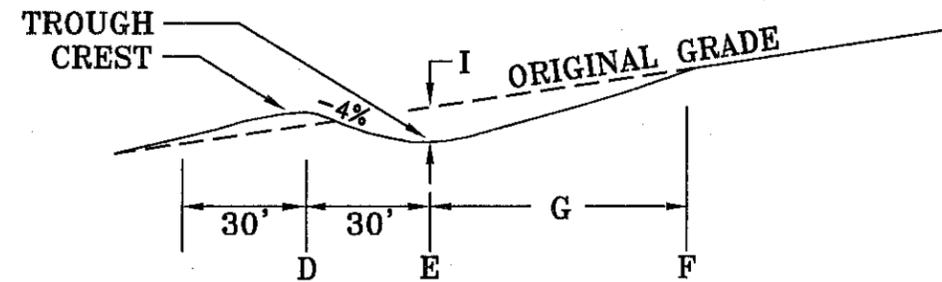
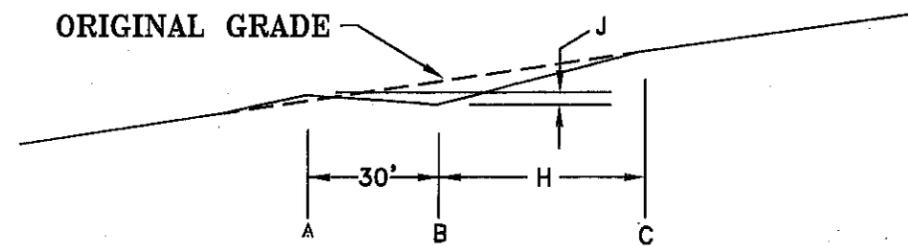
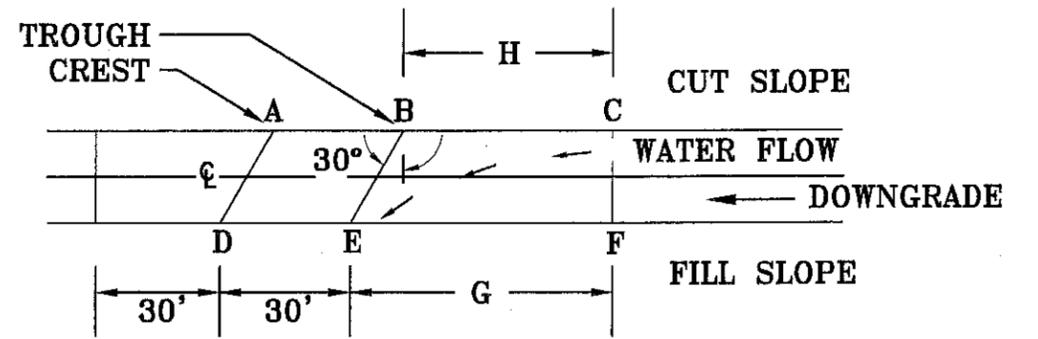
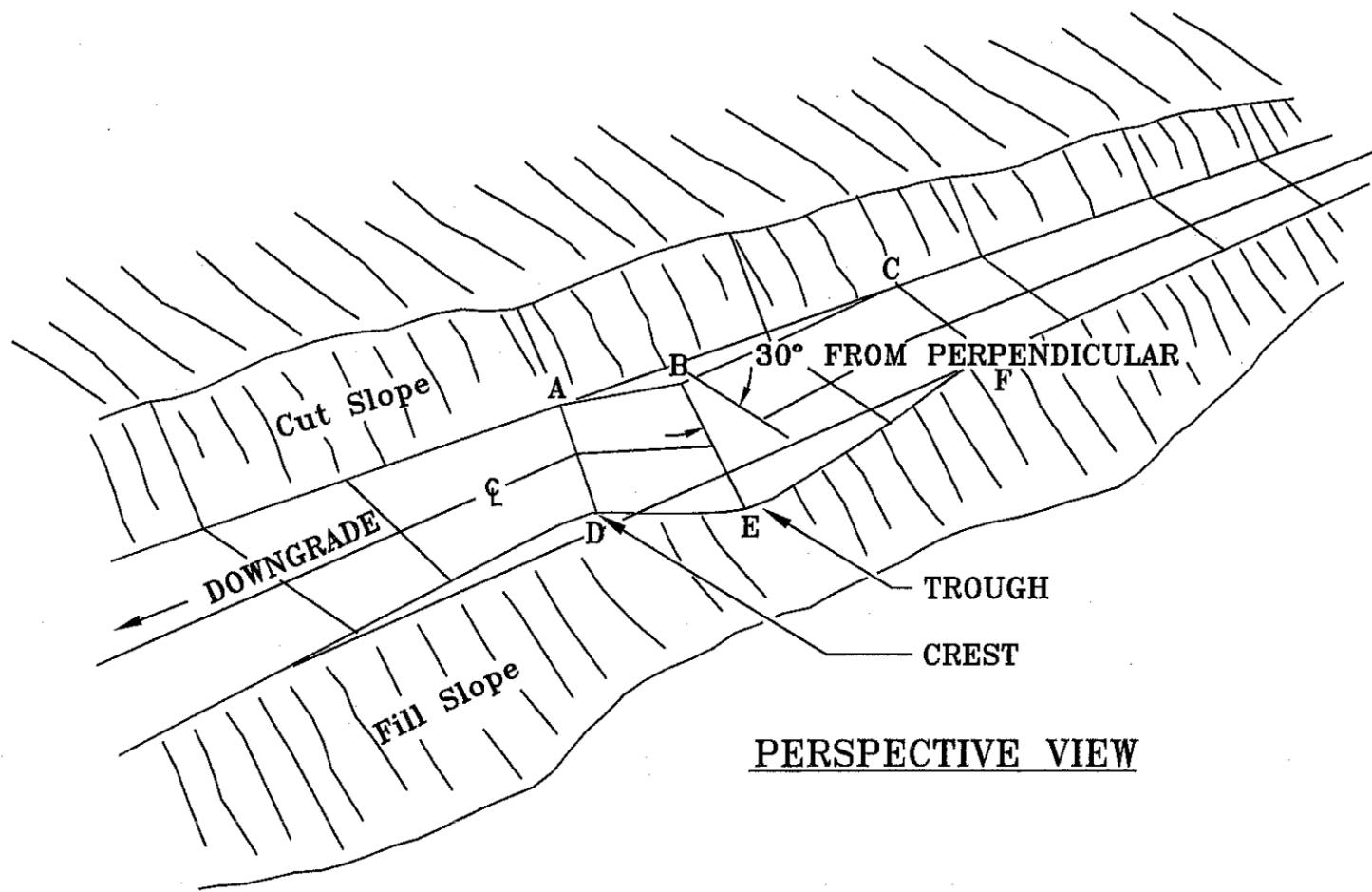


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ROCKY MOUNTAIN REGION

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Road Reconstruction

Sheet Title CULVERT COVER	
Scale NONE	Sheet 11 of 13



DRAWINGS NOT TO SCALE

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 ROCKY MOUNTAIN REGION

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Sheet Title
 GRADE DIP 1
 Scale NONE
 Sheet 12
 of 13

ROAD GRADE %	12 FEET ROAD WIDTH				14 FEET ROAD WIDTH				16 FEET ROAD WIDTH			
	LENGTH/FT		DEPTH/FT		LENGTH/FT		DEPTH/FT		LENGTH/FT		DEPTH/FT	
	G	H	I	J	G	H	I	J	G	H	I	J
<6	57	50	.8	.3	58	50	.9	.3	59	50	.95	.3
6	62	55	.8	.3	63	55	.9	.3	64	55	1	.3
7	67	60	.85	.3	68	60	.95	.3	69	60	1.05	.3
8	72	65	.85	.3	73	65	1	.3	74	65	1.1	.3
9	77	70	.85	.3	78	70	1	.3	79	70	1.1	.3
10	82	75	.9	.3	83	75	1.05	.3	84	75	1.15	.3

NOTES:

1. PLANS ARE FOR AN OUTSLOPED, INSLOPED, OR CROWNED TEMPLATE, WITH OR WITHOUT A DITCH.
2. GRADE DIPS FUNCTION BY THE PROGRESSIVE INCREASE OF ROAD SURFACE OUTSLOPE FROM LINE "C-F" INTO THE TROUGH, LINE "B-E". THE SURFACE ROLLS THROUGH THE TROUGH AND CREST TRANSITIONS IN A UNIFORM MANNER.
3. EXCESS EXCAVATION MATERIAL SHALL BE SCATTERED EVENLY OVER THE ROAD EMBANKMENT SO THAT IT WILL NOT CAUSE EROSION AND SEDIMENTATION PROBLEMS IN THE GRADE DIP, OUTLET DITCHING, OR STREAMS.
4. WHEN GRADE DIPS ARE CONSTRUCTED IN DITCH SECTIONS, THE DITCH SHALL DRAIN ACROSS THE GRADE DIP. RESUME DITCH CONSTRUCTION 25 FEET DOWN GRADE FROM THE CREST OF THE GRADE DIP.
5. GRADE DIP OUTLETS SHALL BE CONSTRUCTED TO DRAIN TO DAYLIGHT.
6. OUTLET DRAIN DITCHES SHALL HAVE CUT SLOPES EQUAL TO OR FLATTER THAN 1.5:1. EXCAVATION FROM OUTLET DITCHING SHALL BE SCATTERED ALONG THE SIDES OF THE DITCH. ALL NECESSARY CLEARING AND OUTLET DITCHING SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE GRADE DIP AND NO SEPARATE PAYMENT WILL BE MADE.
7. FINAL LOCATIONS FOR GRADE DIPS WILL BE STAKED BY THE FOREST SERVICE PRIOR TO CONSTRUCTION.

 <p>U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE ROCKY MOUNTAIN REGION</p>			Drawn <u>G.B.Frink</u> Design <u>G.B.Frink</u> Checked <u>JCF</u> Reviewed <u>JOM</u>	Forest RIO GRANDE NATIONAL FOREST Project Name Wapiti Beetle Salvage TS Road Reconstruction	Sheet Title GRADE DIP 2 Scale NONE	Sheet 13 of 13