

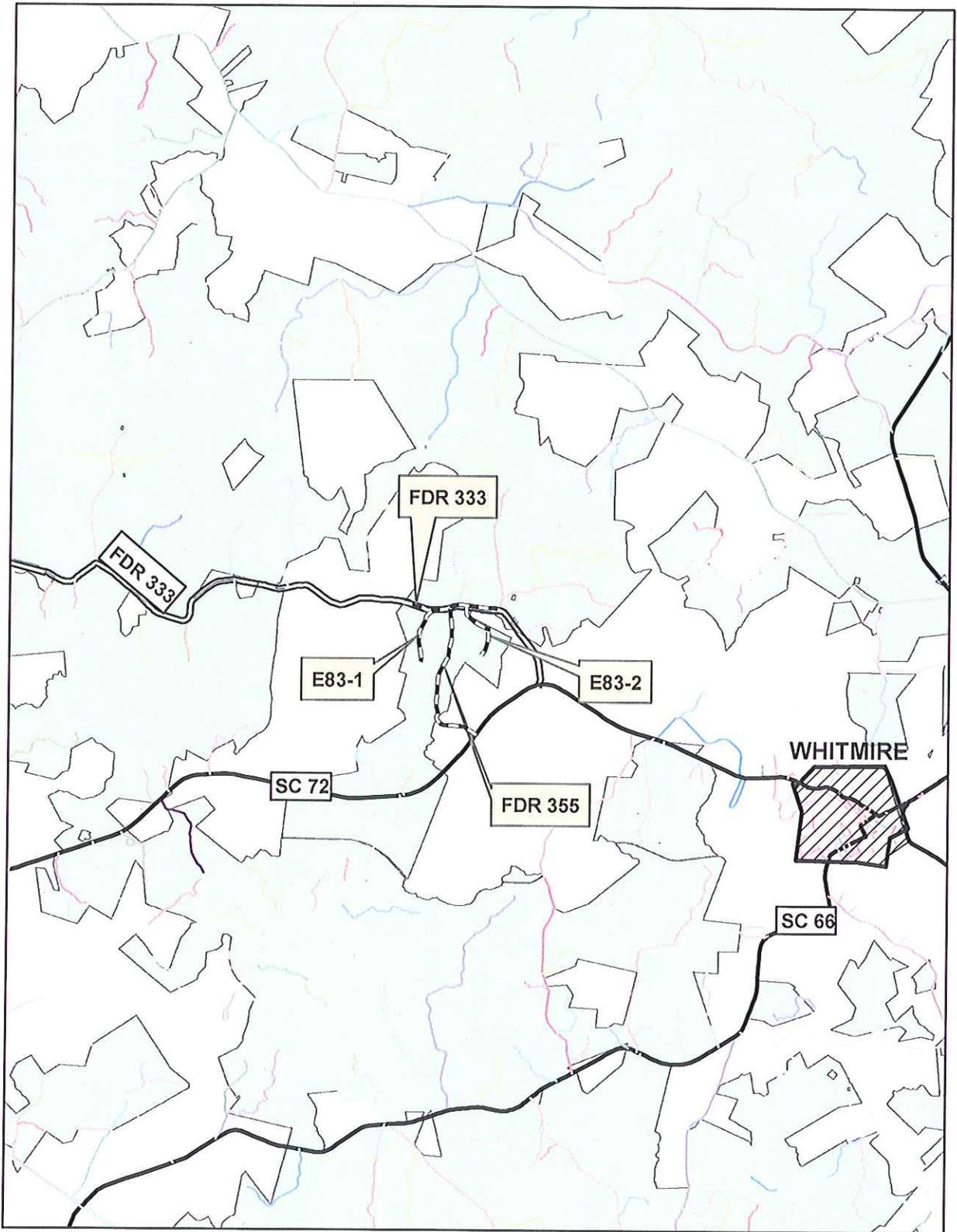
**U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE REGION 8  
SUMTER NATIONAL FOREST  
ENOREE DISTRICT**

**EN C 83  
TIMBER SALE**

FDR 333, RIDGE ROAD, RECONSTRUCTION, 0.76 MILES  
FDR 355, DEAN, RECONSTRUCTION, 1.70 MILES  
E 83-2, CONSTRUCTION, 0.75 MILES  
E 83-1, CONSTRUCTION, 0.52 MILES

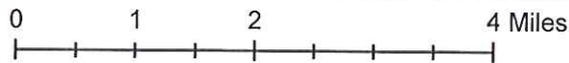


<i>Jacques L. Bayne</i>	<i>07/12/2011</i>
Forest Engineer	Date
<i>Elizabeth LeMaster</i>	<i>07/12/11</i>
District Ranger,	Date
<i>T. White</i>	<i>07/20/2011</i>
Engineering, and	Date
Recreation Staff Officer	
<i>Ph Bradley</i>	<i>07.20.2011</i>
Forest Supervisor	Date



**Legend**

 Project Roads



**EN C 83 TIMBER SALE**





Francis Marion and Sumter N.F.  
Enoree District  
EN C 83 Timber Sale

**FDR 333**  
**RIDGE ROAD**

<b><u>MILE POST</u></b>	<b><u>DESCRIPTION</u></b>
0.00	INTERSECTION WITH S-30-554 @ CHURCH
4.50	BEGIN PROJECT @ FS PROPERTY LINE
4.50 – 5.26	<b>EXISTING CROWN SECTION PLACE 400 TONS OF AGGREGATE, GRADE CR14, 4" LOOSE, SPOT SURFACE</b>
4.77	INTERSECTION WITH FSR E 83-1, RIGHT
5.01	INTERSECTION WITH FSR 355, RIGHT
5.15	INTERSECTION WITH FSR E 83-2, RIGHT
5.26	END OF PROJECT @ FOREST SERVICE PROPERTY LINE

**FDR 355**  
**DEAN**

<b><u>MILE POST</u></b>	<b><u>DESCRIPTION</u></b>
0.00	INTERSECTION WITH SC HWY 72
0.00 – 1.70	<b>EXISTING CROWN SECTION PLACE 450 TONS OF AGGREGATE, GRADE CR14, 4" LOOSE, SPOT SURFACE RESHAPE &amp; GRADE SURFACE</b>
0.03	REPLACE 1 CULVERT POST
0.90	REPLACE 1 CULVERT POST
0.44	FOREST SERVICE PROPERTY LINE INSTALL 2 DOUBLE HAZARD MARKERS
0.48	INSTALL 2 DOUBLE HAZARD MARKERS
0.54	RESET 1 CULVERT POST
0.70	INTERSECTION WITH FSR 355 A, LEFT
1.38	INSTALL 1 CULVERT POST
1.70	END OF PROJECT @ INTERSECTION WITH FSR 333 "RIDGE ROAD"

**E83-2**

<b><u>STATION</u></b>	<b><u>DESCRIPTION</u></b>
0+00	INTERSECTION WITH FDR 333 "RIDGE ROAD"
0+00 – 23+10	<b>EXISTING CROWN SECTION PLACE 200 TONS AGGREGATE, GRADE CR14, 4" LOOSE, SPOT SURFACE  HEAVY BRUSHING REQUIRED  RECONDITION EXISTING ROAD TEMPLATE CLEANING &amp; GRUBBING ALL DITCHES REQUIRED</b>
0+00 – 39+50	<b>SEEDING AND MULCHING REQUIRED ALL DISTURBED AREAS</b>
0+50	INSTALL NEW STOP SIGN
2+55	REMOVE EXISTING WOOD BARRICADE INSTALL NEW FARM GATE <b><u>SEE GATE DRAWING DETAILS FOR ACCESSIBILITY REQUIREMENTS</u></b>
6+10	INSTALL TWO CULVERT POST MARKERS
11+20	INSTALL TWO CULVERT POST MARKERS
13+25	INSTALL TWO CULVERT POST MARKERS
15+70	INSTALL TWO CULVERT POST MARKERS
17+85	INSTALL TWO CULVERT POST MARKERS
21+90 – 23+10	OLD TURNAROUND
23+57	CREST
23+ 10 – 39+50	<b>CONSTRUCT OUTSLOPE RIGHT TYPICAL SECTION PLACE 150 TONS OF AGGREGATE, GRADE 3" 4" LOOSE, SPOT SURFACE</b>
25+00	CONSTRUCT DIP, DRAIN RIGHT
26+85	CONSTRUCT DIP, DRAIN RIGHT

28+00	CONSTRUCT DIP, DRAIN RIGHT
28+95	CONSTRUCT DIP, DRAIN RIGHT
30+45	CONSTRUCT DIP, DRAIN RIGHT
32+15	CONSTRUCT DIP, DRAIN RIGHT
33+60	CONSTRUCT DIP, DRAIN RIGHT
36+40	CONSTRUCT DIP, DRAIN RIGHT
38+00	BEGIN TRANSITION TURNAROUND
38+50	OBTAIN FULL WIDTH TURNAROUND 100' X 100'
39+50	END OF PROJECT AND TURNAROUND

E 83-1

<u>STATION</u>	<u>DESCRIPTION</u>
0+00	INTERSECTION WITH FSR 333, "RIDGE ROAD"
0+00 – 1+00	CONSTRUCT INTERSECTION (SEE ENTRANCE TYPICAL SECTION)  R = 30' L = 100' W = 20' A = 45deg SKEW
0+00 – 27+50	<b>PLACE 300 TONS AGGREGATE, GRADE 3" 4" LOOSE, SPOT SURFACE</b>  <b>SEEDING AND MULCHING REQUIRED ALL DISTURBED AREAS</b>
0+00 – 8+90	CONSTRUCT OUT SLOPE LEFT TYPICAL SECTION
0+60	REMOVE EXISTING WOODEN BARRICADE
1+00	INSTALL NEW FARM GATE <u>SEE GATE DRAWING DETAILS FOR ACCESSIBILITY REQUIREMENTS</u>
2+12	CONSTRUCT DIP DRAIN LEFT
3+80	CREST
5+22	CONSTRUCT DIP DRAIN LEFT
6+00	CONSTRUCT DIP DRAIN LEFT
7+30	CONSTRUCT DIP DRAIN LEFT
8+90	CONSTRUCT DIP DRAIN LEFT
8+90 – 12+00	CONSTRUCT OUT SLOPE RIGHT TYPICAL SECTION
9+80	CONSTRUCT DIP DRAIN RIGHT

11+20	REMOVE DIP
12+00 – 13+10	CONSTRUCT OUT SLOPE LEFT TYPICAL SECTION
12+00	CONSTRUCT DIP DRAIN LEFT
13+10	CONSTRUCT DIP DRAIN LEFT
13+10 – 18+06	CONSTRUCT OUT SLOPE RIGHT TYPICAL SECTION
14+30	CONSTRUCT DIP DRAIN RIGHT
16+20	CONSTRUCT DIP DRAIN RIGHT
18+06	CONSTRUCT DIP DRAIN RIGHT
18+06 – 19+04	CONSTRUCT OUT SLOPE LEFT TYPICAL SECTION
19+04	CONSTRUCT DIP DRAIN LEFT
19+04 – 20+36	CONSTRUCT OUT SLOPE RIGHT TYPICAL SECTION
20+36	CONSTRUCT DIP DRAIN RIGHT
20+36 – 27+50	CONSTRUCT OUT SLOPE LEFT TYPICAL SECTION
22+14	CONSTRUCT DIP DRAIN LEFT
23+60	CONSTRUCT DIP DRAIN LEFT
25+16	CONSTRUCT DIP DRAIN LEFT
27+50	END OF PROJECT: CONSTRUCT TURNAROUND 100' X 100'

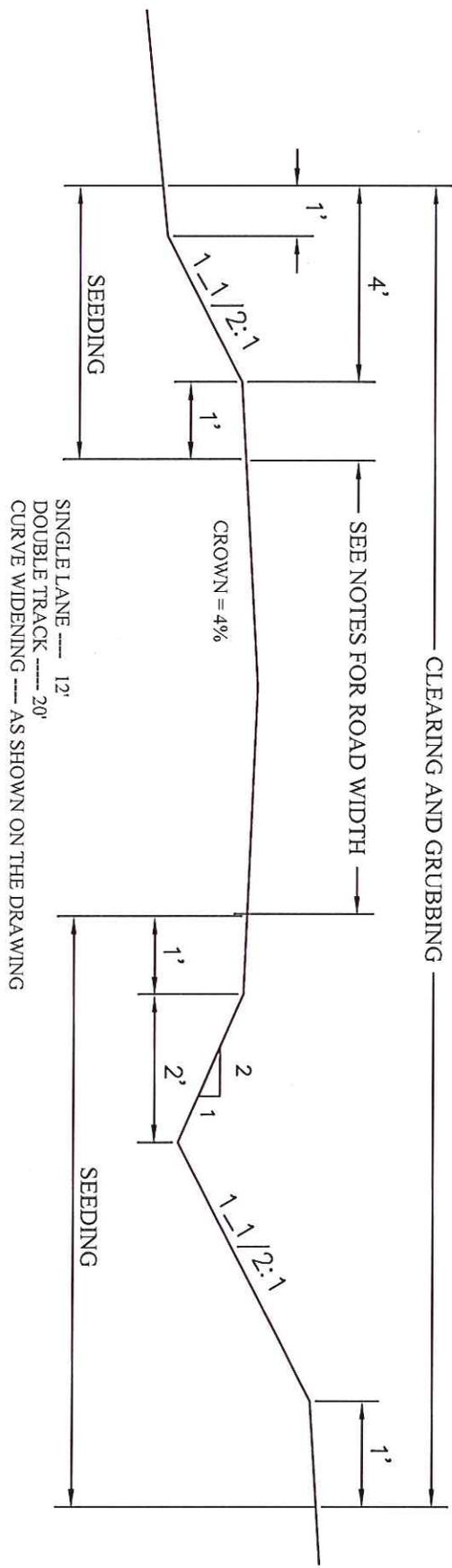
NOTES: **LIGHT CLEARING & GRUBBING REQUIRED THROUGHOUT  
LIGHT EXCAVATION, LIGHT SHAPING & GRADING THROUGHOUT**

GENERAL NOTES FOR ALL ROADS

1. MOTOR GRADER FINISH REQUIRED
2. WOODEN BARRICADE SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM GOVERNMENT LAND.

# CROWN SECTION

N.T.S.



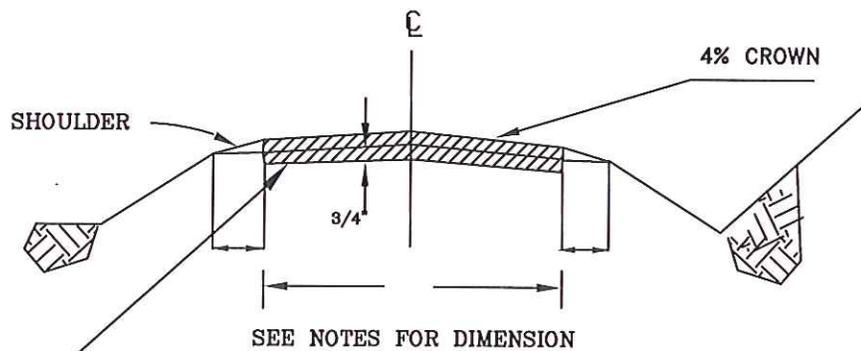
NOTE: MOTOR GRADER FINISH IS REQUIRED.

SEE NOTES

SURFACING SHALL BE TRUCK SPREAD TO A THICKNESS OF \_\_\_\_\_ LOOSE DEPTH THE CONTRACTOR SHALL PREPARE THE SUB GRADE, SHAPE AND FINAL GRADE THE SURFACING TO THE CONFORM TO THE TYPICAL SECTION. THE CONTRACTOR SHALL LIMIT CHANNELING TO THE TYPICAL SECTION. THE CONTRACTOR SHALL LIMIT CHANNELING TO THE AMOUNT OF SURFACING THAT CAN BE DONE IN THAT DAY. SURFACE SHALL BE PLACED IN A SINGLE LAYER THICKNESS UNLESS APPROVED BY THE ENGINEER. AT THE END OF THE EACH WORKING DAY THE CONTRACTOR SHALL SPREAD AND SHAPE ALL SURFACING HAULED THAT DAY. THERE WILL BE NO EXCEPTIONS UNLESS APPROVED IN WRITING BY THE ENGINEER.

## SURFACING SECTION

NOT TO SCALE



SEE NOTES LOOSE AGGREGATE

MOTOR GRADER FINISH REQUIRED.

### SURFACING GRADATION:

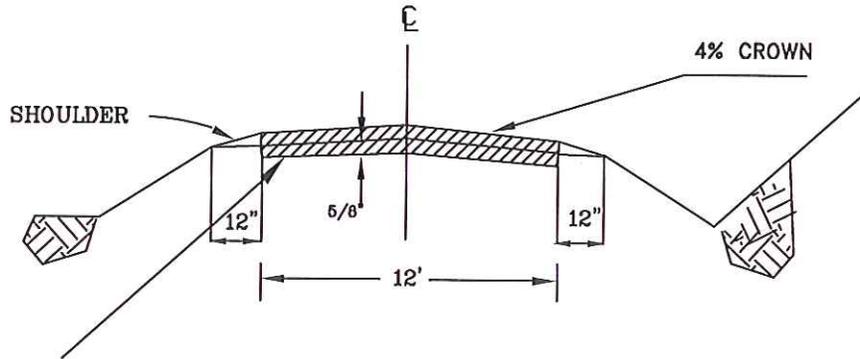
SUMTER -- GRADING No. CR14

SIEVE DESIG.	% BY WEIGHT PASSING
2"	100
1 - 1/2"	95 - 100
1"	70 - 100
1/2"	35 - 65
#4	10 - 40

SURFACING SHALL BE TRUCK SPREAD TO A THICKNESS OF \_\_\_\_\_" LOOSE DEPTH THE CONTRACTOR SHALL PREPARE THE SUB GRADE, SHAPE AND FINAL GRADE THE SURFACING TO THE CONFORM TO THE TYPICAL SECTION. THE CONTRACTOR SHALL LIMIT CHANNELING TO THE TYPICAL SECTION. THE CONTRACTOR SHALL LIMIT CHANNELING TO THE AMOUNT OF SURFACING THAT CAN BE DONE IN THAT DAY. SURFACE SHALL BE PLACED IN A SINGLE LAYER THICKNESS UNLESS APPROVED BY THE ENGINEER. AT THE END OF THE EACH WORKING DAY THE CONTRACTOR SHALL SPREAD AND SHAPE ALL SURFACING HAULED THAT DAY. THERE WILL BE NO EXCEPTIONS UNLESS APPROVED IN WRITING BY THE ENGINEER.

## SURFACING SECTION

NOT TO SCALE



See Notes -- LOOSE AGGREGATE

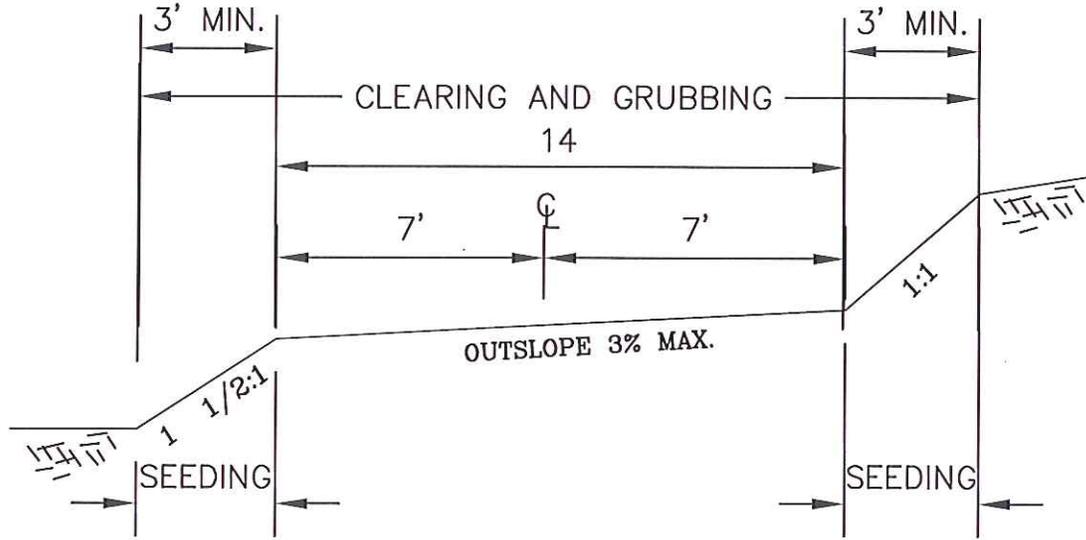
MOTOR GRADER FINISH REQUIRED.

### SURFACING GRADATION:

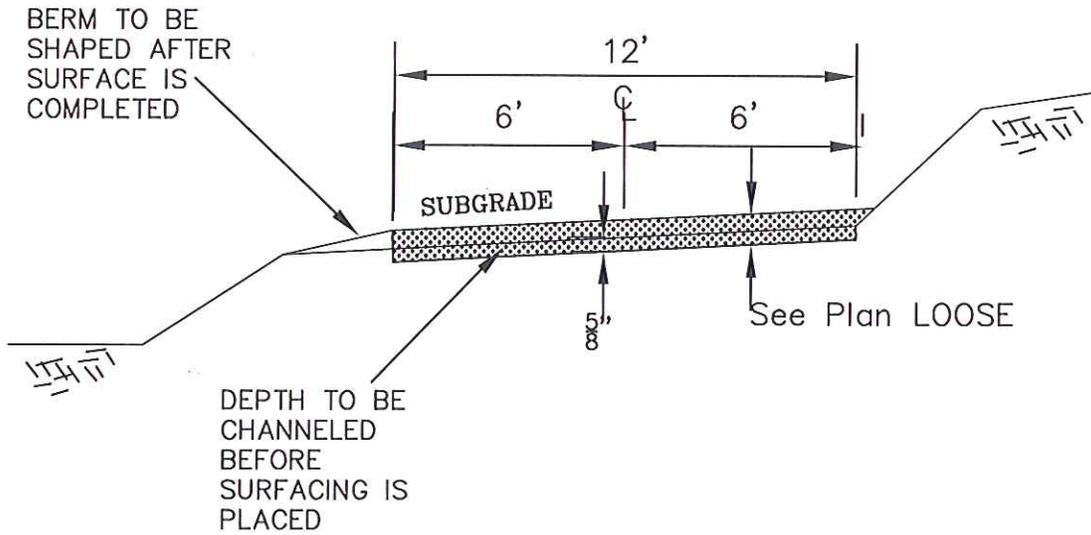
SUMTER -- GRADING No. 3"

SIEVE DESIG.	% BY WEIGHT PASSING
3"	100
1 1/2"	90 - 100
1"	20 - 55
3/4"	0 - 15
3/8"	0 - 5

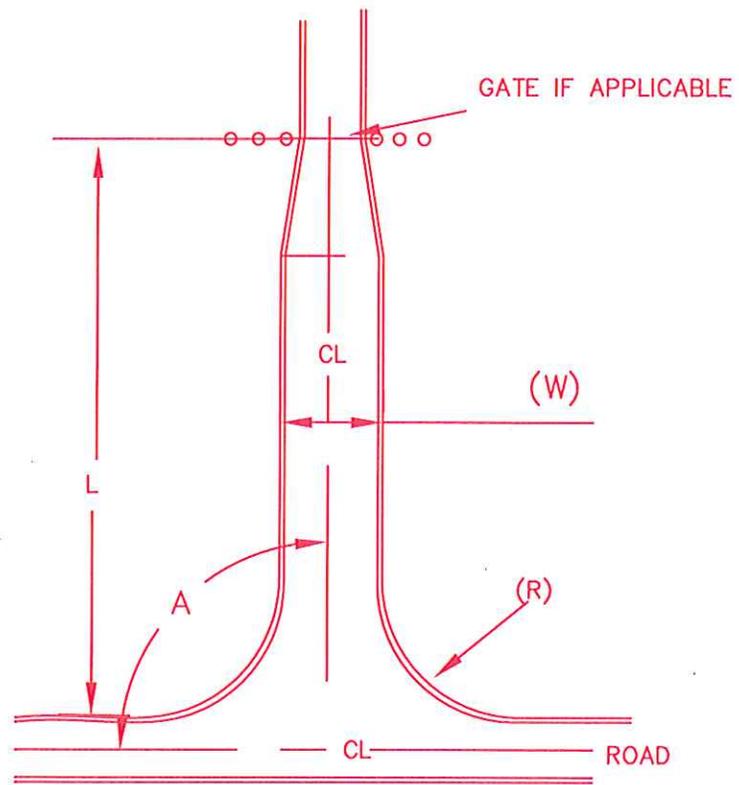
### OUTSLOPE TYPICAL



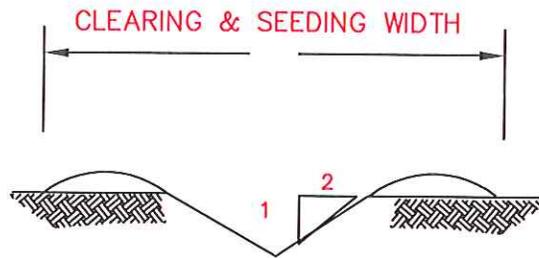
### SURFACING SECTION



ENTRANCE TYPICAL SECTION  
NOT TO SCALE

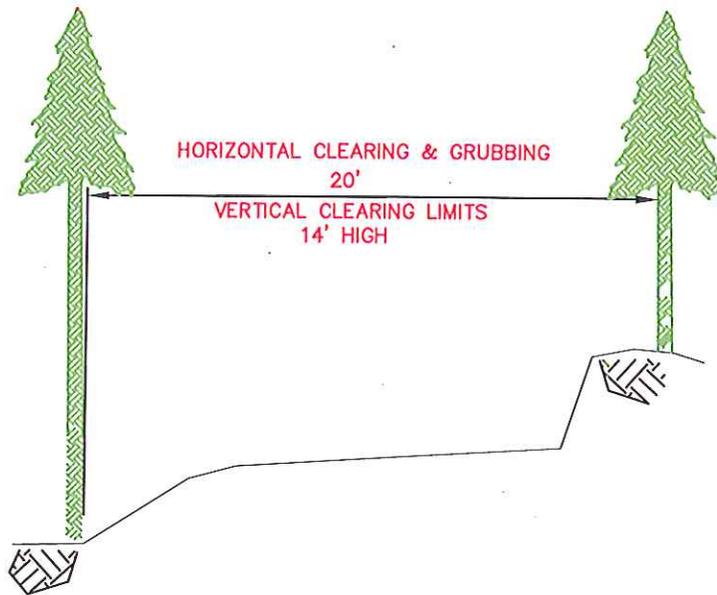


LEAD-OFF DITCH  
NOT TO SCALE



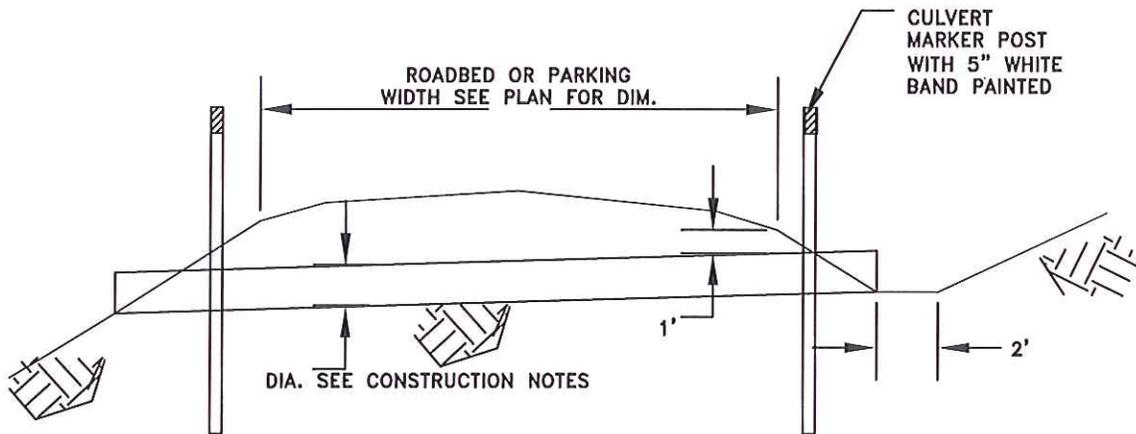
TYPICAL SECTION

NOT TO SCALE



# CULVERT SECTION

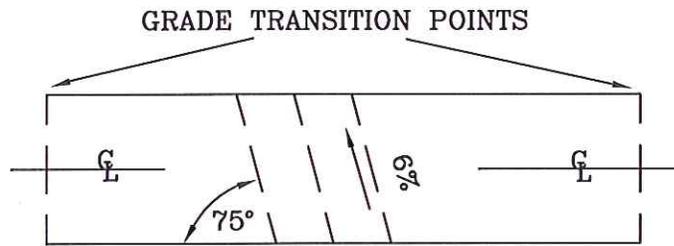
NOT TO SCALE



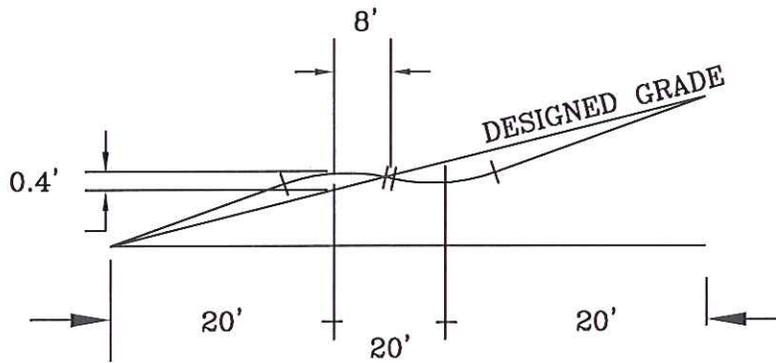
## GENERAL NOTES:

1. CAMBER IN PIPE TO BE AS STAKED BY THE ENGINEER
2. POST MARKER SHALL BE INCIDENTAL TO THE PAYITEM 602
3. POST MARKER SHALL BE 3" MIN TREATED WOOD POST WITH A 5" WHITE BAND PAINTED AROUND TOP.
4. POST MARKER SHALL BE LOCATED ON EACH SIDE OF ROAD VISIBLE TO ON COMING TRAFFIC.

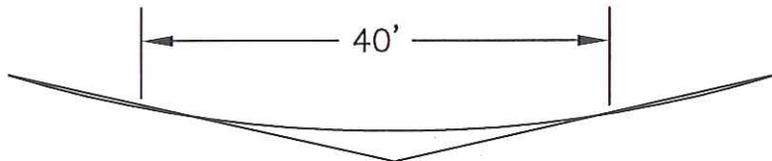
# DIP TYPICAL



DIP  
PLAN VIEW



DIP  
PROFILE VIEW

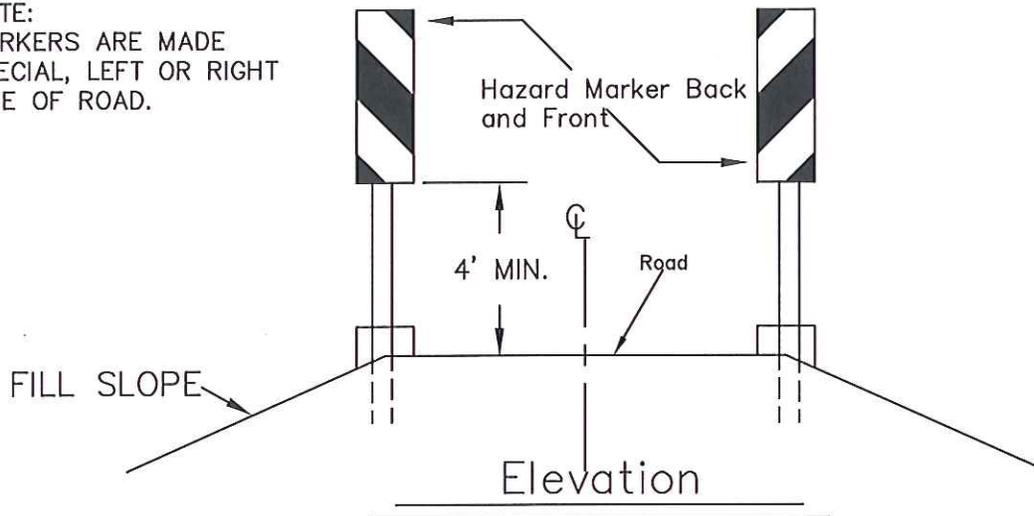


NATURAL DIP  
PROFILE VIEW

OF

# HAZARD MARKER INSTALLATION

NOTE:  
MARKERS ARE MADE  
SPECIAL, LEFT OR RIGHT  
SIDE OF ROAD.



NOTE:

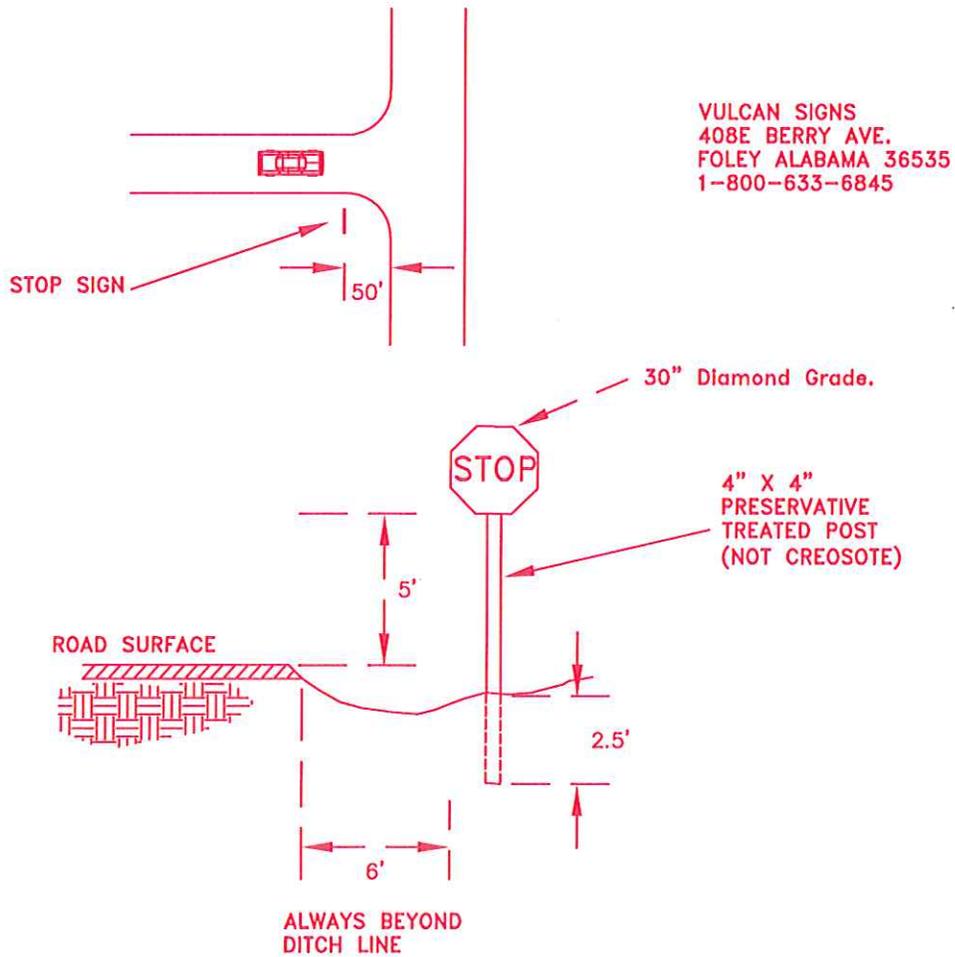
1. SIGN AND POST SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR
2. SIGN SHALL BE FASTENED TO POST WITH  $\frac{3}{8}$ " DIAMETER GALVANIZED CARRIAGE BOLTS 2 PER SIGN
3. SIGN CAN BE ORDER AT;

P&M SIGNS, INC  
1-866-PMSIGN1 OR WWW.PMSIGNSINC.COM  
LEFT - OM-3L  
RIGHT - OM-3R  
ALUMINUM BLACK AND YELLOW

# STOP SIGN DETAIL

SIGN AND POST SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.  
SIGN SHALL BE FASTENED TO POST WITH 3/8" DIAMETER GALVANIZED CARRIAGE BOLTS - 2 PER SIGN.

PLACE SIGN AS NEAR AS POSSIBLE TO THE SPOT WHERE VEHICLE IS TO STOP. NEVER MORE THAN 15 METERS FROM INTERSECTION.



ENOREE SEEDING

All disturbed soil shall be seeded according to the following specification:

1. MATERIALS AND APPLICATION RATES

The contractor shall provide the following listed material:

- a. Fertilizer: Fertilizer shall be standard commercial grade which will release slowly over an eight to nine month period and provide the minimum percentage of available nutrients designated.

Fertilizer ..... 10-10-10 ..... applied at a rate of 1000 lbs. per acres.  
Lime ..... applied at a rate of 2000 lbs. per acres.

- b. Seed: Grass seed shall be packaged separately from fertilizer and contain the designated types of seed for application at the designated rates.

August 1 to March 1

- i. Annual Rye Grass ..... 30 lbs. per acres
- ii. Brown Top Millet..... 20 lbs. per acres
- iii. Pensacola Bahia ..... 40 lbs. per acres
- iv. Redland Clover ..... 5 lbs. per acres

March 2 to July 31

- v. Annual Rye Grass ..... 30 lbs. per acres
- vi. Brown Top Millet..... 20 lbs. per acres
- vii. Pensacola Bahia ..... 40 lbs. per acres

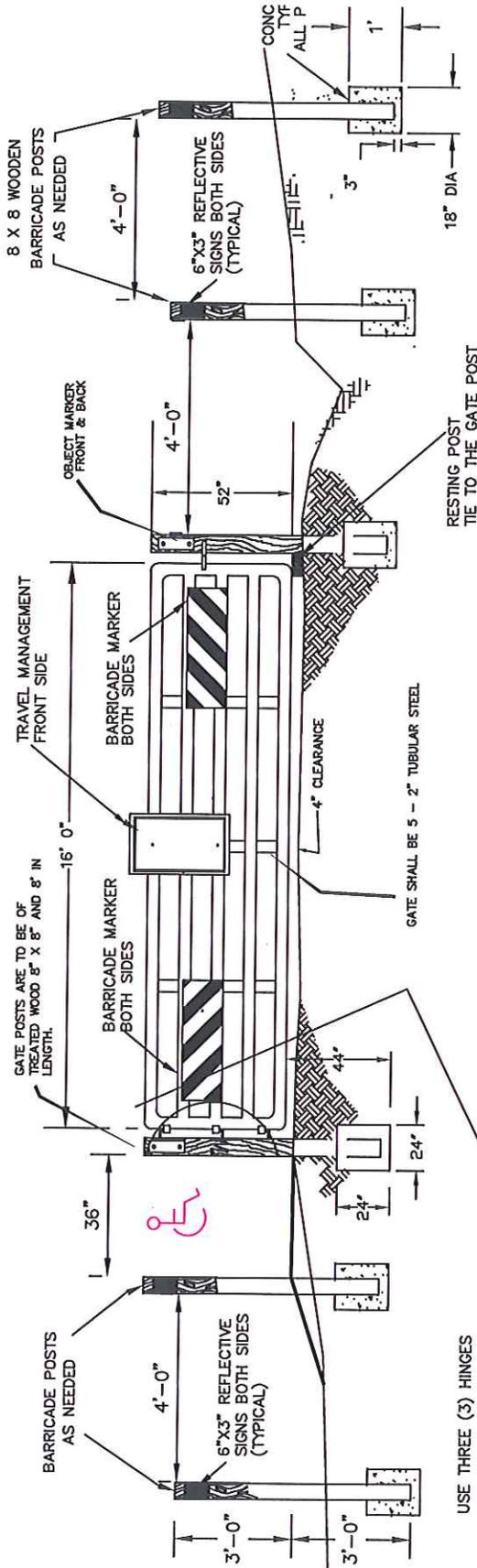
Other appropriate native seed may be available and used when approved by the CO.

Furnish a product certification for each kind or type of seed.

- c. Dry Mulch: Mulch shall be hay, straw or wood cellulose fiber applied at the rate of 3000 lbs per acres. Shall be free from weeds mold or other objectionable material.  
Immediately after seeding a layer of mulch shall be applied.

No tackifier of mulch required.

# FARM GATE DETAIL

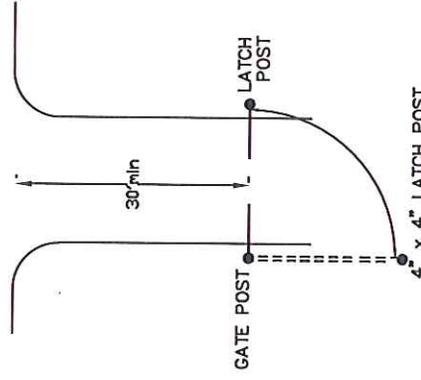


## NOTES:

1. WOODEN POSTS SHALL BE TREATED WITH 0.40 OF ACP - OR CHROMATE COPPER ARSENATE (CCA), MINIMUM RETENTION 0.40 POUNDS PER CUBIC FOOT
2. GATE SHALL BE 16 GAUGE STEEL FARM TYPE, TUBULAR 52" HIGH X 16" WIDE. ALL FARM GATES SHALL HAVE STANDARD RED COLOR FOR PAINT.
3. CONTRACTOR SHALL FURNISH AND INSTALL 3 GATE HINGES AND PROVIDE LOCKING CHAIN TO COR, 1/4" X 6' LONG, GALVANIZED AT EACH FARM GATE INSTALLATION.
4. ALL SIGNS, OBJECT MARKERS, AND HARDWARE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. FOREST SERVICE WILL APPLY STICKERS TO TRAVEL MANAGEMENT SIGN.
5. SIGN SUPPLIER INFORMATION:  
UNICOR: PHONE 1-805-735-6211, FAX 1-805-735-4507  
BARRICADE MARKERS FOR GATES  
ALUMINUM, UNICOR PT#ALSP0025  
RED/WHITE, RIGHT, DIAMOND GRADE, 8X24  
BARRICADE MARKERS FOR GATES  
ALUMINUM, UNICOR PT#ALSP0025  
RED/WHITE, LEFT, DIAMOND GRADE, 8X24  
TRAVEL MANAGEMENT P7115  
ALUMINUM, UNICOR PT#ALSP0075  
12X18, HI-INTENSITY  
OBJECT MARKER  
ALUMINUM, UNICOR PT#ALDC0025,  
YELLOW 3"X6", HI-INTENSITY

## ACCESSIBILITY NOTES:

1. ACCESSIBLE ACCESS CAN BE PROVIDED ON EITHER SIDE OF THE GATE, WHERE GROUND CONDITION AND SHAPE FIT BETTER.
2. DO NOT BLOCK ROAD DITCH, RELOCATION MAY BE NEEDED
3. ACCESS SHALL BE 36" WIDE AT ROAD HEIGHT, BYPASSING SHALL MATCH ROAD SURFACE WITHOUT ANY OBSTACLES.
4. HINGE BOLTS SHALL BE FREE OF ANY SHARP EDGES, ON THE ACCESSIBILITY ACCESS SIDE.



(SHALL BE INSTALLED TO SWING WITHOUT RESTRAIN)

## GATE PLAN

NOT TO SCALE

# FS SUPPLEMENTS SPECIFICATION FP03

## EN C 83 TS

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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	<a href="#">National Institute of Standards and Technology</a>
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.

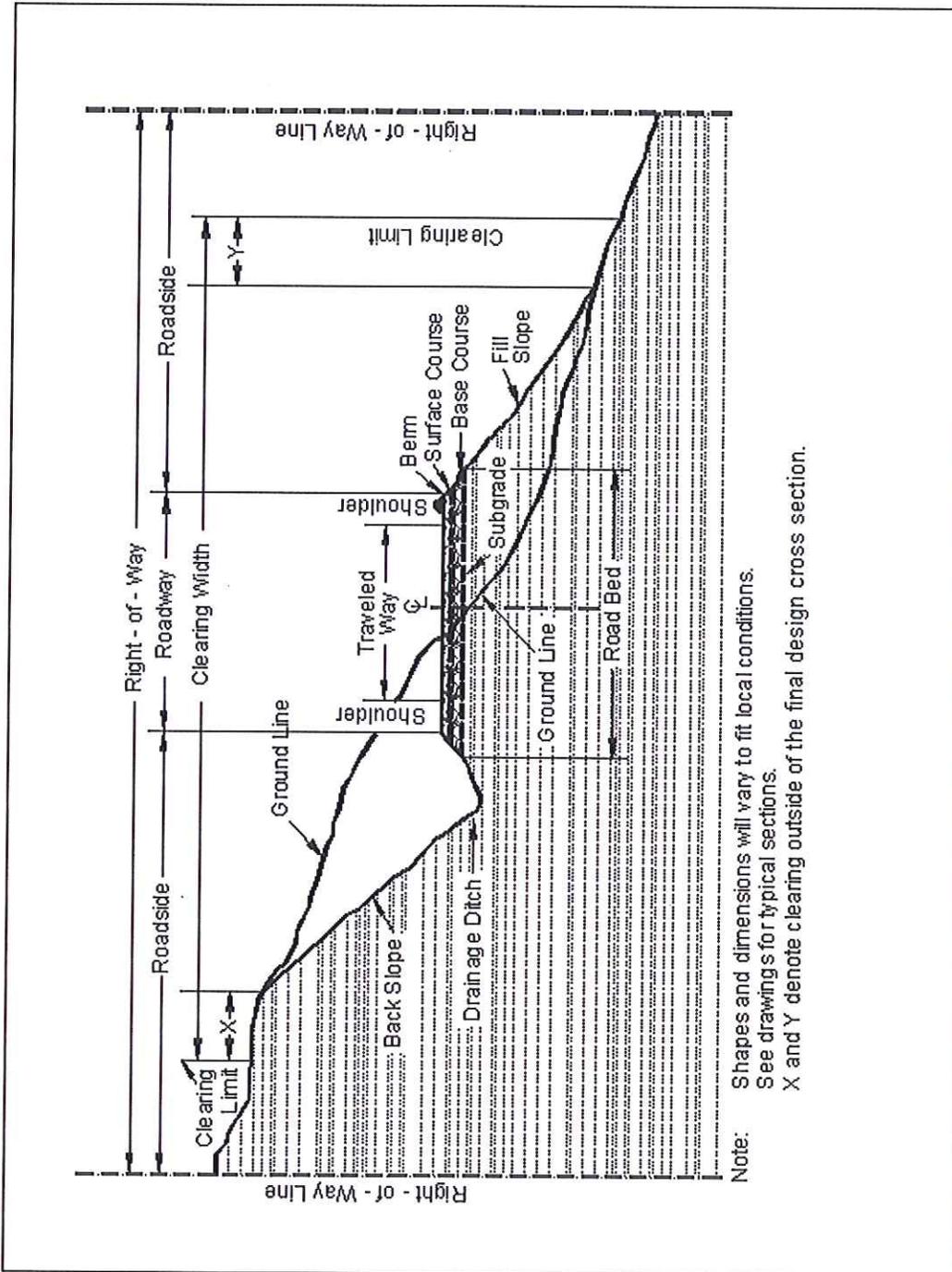
**Road Order**--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

**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.

104.06\_nat\_us\_02\_17\_2005

Add the following subsection:

### 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.

## 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**

106.07\_nat\_us\_05\_11\_2004

### **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 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 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.

## 155 - Schedules for Construction Contracts

155.00\_nat\_us\_05\_11\_2004

### 155 Delete.

Delete Section 155 in its entirety.

## 249 - Composite Road Construction

249.00\_0116\_us\_03\_31\_2005

### Description

**249.01** This work consists of clearing and grubbing, excavation and embankment, and removal of all construction slash including designated trees. During excavation and embankment, excavate and use borrow material; excavate drainage; shape the roadway, including approaches, turnarounds, ditches, and drainage dips; and place all excavated material, regardless of nature. Perform erosion control by furnishing and placing seed, fertilizer, mulch, and tackifier. Construct the roadway in conformance with the dimensions shown on the plans or designated by the CO.

## Materials

**249.02** Ensure that materials meet the requirements specified in the following section and subsection:

Seeding and Mulching	625
Stabilizing Emulsion Tackifiers	713.02

## Construction Requirements

**249.03 Clearing and Disposal.** Protect construction stakes and construction control markers. Remove or treat all trees, snags, downed timber, brush, and stumps within the clearing limits according to the following specifications:

- (a) **Merchantable Timber.** Treat according to Subsection 201.06
- (b) **Unmerchantable Timber.** Treat according to Subsection 203.05 Method (i)
- (c) **Large Construction Slash.** Treat construction slash larger than 3 inches in diameter and longer than 3 feet by one or more of the following methods, as shown on the plans:
  - (1) **Method A.** Incorporate construction slash in the embankment.
  - (2) **Method B.** Windrow construction slash inside the clearing limits. When slash is windrowed, place it approximately parallel to the roadway outside the toe of the fill slope.
  - (3) **Method C.** Scatter construction slash outside the roadway without damaging trees. Limb all logs. Place logs and stumps away from trees, positioned so they will remain in place and are not on top of one another.
  - (4) **Method D.** Construct piles that are free of soil, with smaller slash well mixed with larger slash. Buck unmerchantable logs into lengths less than 18 feet prior to placement in piles.
  - (5) **Method E.** Sidecast construction slash into the area below the roadway. Slash may be sidecast beyond the lower clearing limit not to exceed 10 feet.

(6) **Method F.** Bury construction slash within the roadway limits. Construct mats in layers and cover the mats with at least 18 inches of rock and soil.

(7) **Method G.** Construct piles of construction slash in the areas designated on the ground. Construct the piles so that burning does not damage standing trees. Burn the piles until all the material remaining in the pile is charred or ash.

(8) **Method H.** Bury the construction slash outside the roadway the locations designated on the ground. Construct mats in layers, and cover the mats with at least 18 inches of rock and soil. Slope the final surface to drain.

(9) **Method J.** Construct a debris mat of construction slash under the road subgrade. Use tree limbs, tops cull logs, split stumps, wood chunks, and other debris to form a mat. Place stumps upside down and blended into the mat.

**Small Construction Slash.** Construction slash less than 3 inches in diameter and less than 3 feet long may be incorporated into embankments so long as the material is distributed so that it does not result in concentrations or matting.

Immediately remove slash deposited in stream courses.

Fell all dead trees outside the clearing limits that lean toward the road and are sufficiently tall to reach the roadbed. Fell hazard or unstable live trees designated on the ground outside the clearing limits before felling timber in the immediate clearing vicinity.

Leave stump heights less than 1 foot or one-third of the stump diameter whichever is greater, measured on the side adjacent to the highest ground. Leave felled trees outside the clearing limits in place.

**249.04 Pioneering.** Do not undercut the final back slope during pioneer operations. Deposit material inside the roadway limits. Do not restrict drainage.

**249.05 Grubbing.** Grub within the specified limits. Stumps outside the grubbing limits remain if cut no higher than 1 foot or one-third of the stump diameter, whichever is greater, above the

original ground, measured on the uphill side, unless otherwise designated. Grub stumps that will protrude through the subgrade or have less than 6 inches of cover.

**249.06 Excavation and Embankment.** Construct the roadway to conform to the typical sections shown on the plans. Protect backslopes from being undercut. Embankment may be placed by side casting and end dumping.

Locate and use borrow material, and remove and treat unsuitable or excess material, as designated.

Place rocks that are too large to be incorporated in the embankment outside the traveled way on the downhill side such that they will not roll, obstruct drainage, or hinder roadbed use and maintenance.

Leave slopes that are to be seeded in a roughened condition.

Shape and finish the roadbed to the condition ordinarily accomplished by a crawler tractor with dozer blade to provide drainage of surface water. Do not permit individual rocks to protrude more than 4 inches above the subgrade of the roadbed. A motor grader finish is not required.

Observe a width tolerance of (+) 18 inches for the traveled way.

**249.07 Erosion Control.** Perform erosion control measures, including seeding. Use methods and applications rates, and types of seed, fertilizer, mulch, and tackifier, as specified in Section 625. Apply materials uniformly to the areas to be treated..

### **Measurement**

**249.08** Measure the Section 249 items listed in the bid schedule according to Subsection 109.02.

## **Payment**

**249.09** The accepted quantities will be paid at the contract price per unit of measurement for the Section 249 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

## 301 - Untreated Aggregate Courses

301.00\_nat\_us\_03\_03\_2005

### 301 Title Change.

Change the title to: Section 301 Aggregate Courses

301.05\_nat\_us\_05\_17\_2005

### 301.05 Compacting

Delete and replace with the following:

Compact each layer full width. Roll from the sides to the center, parallel to the centerline of the road. Along curbs, headers, walls, and all places not accessible to the roller, compact the material with approved tampers or compactors.

Compact the aggregate using one of the following methods as specified:

**Compaction A.** Operating spreading and hauling equipment over the full width of the travelway.

**Compaction B.** Operate rollers and compact as specified in Subsection 204.11(a)(1).

**Compaction C.** Moisten or dry the aggregate to a uniform moisture content between 5 and 7 percent based on total dry weight of the mixture. Operate rollers and compact as specified in Subsection 204.11(a)(1).

**Compaction D.** Compact to a density of at least 95 percent of the maximum density, as determined by AASHTO T 99, method C or D.

**Compaction E.** Compact to a density of at least 96 percent of the maximum density, as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

**Compaction F.** Compact to a density of at least 95 per-cent of the maximum density, as determined by AASHTO T 180, method C or D.

**Compaction G.** Compact to a density of at least 100 percent of the maximum density as determined by the Modified Marshall Hammer Compaction Method (available upon request from USDA Forest Service, Regional Materials Engineering Center, P.O. Box 7669, Missoula, MT 59807).

For all compaction methods, blade the surface of each layer during the compaction operations to remove irregularities and produce a smooth, even surface. When a density requirement is

specified, determine the in place density and moisture content according to AASHTO T 310 or other approved test procedures.

301.10\_nat\_us\_03\_03\_2005

### 301.10 Payment

Delete the following:

adjusted according to Subsection 106.05

## 625 - Turf Establishment

625.05\_nat\_us\_03\_30\_2005

### 625.05 Watering.

Delete the entire subsection

625.07\_nat\_us\_02\_25\_2005

### 625.07 Seeding. (a) Dry method.

Remove the last sentence "Lightly compact the seedbed within 24 hours after seeding."

### 625.07 Seeding. (b) Hydraulic method.

Add the following:

Apply fertilizer conforming to Subsection 713.03 at the rates shown in Table 625-1. Fertilize areas inaccessible to hydro-type equipment by hand.

**Table 625-1. Fertilizer Application Rate. SEE DRAWING**

Type	Quantity per Slurry Unit
::	__lbs
::	__lbs

Apply the seed mixture at the rate of \_\_\_\_\_ kilograms of live seed per \_\_\_\_\_ (hectare/slurry unit). Include a tracer material consisting of either wood fiber mulch or grass cellulose fiber mulch to provide visible evidence of uniform application. Add the tracer to the slurry at a rate of \_\_\_\_\_ (400 pound per acre or 100 pound per slurry unit). Seed areas inaccessible to hydro-type equipment by hand.

## **633 - Permanent Traffic Control**

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.

## **718 - Traffic Signing and Marking Material**

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.