FOREST SERVICE
SUPPLEMENTAL SPECIFICATIONS

HURRICANE HELENE REPAIRS

FY26 Pisgah South Ranger District Ditch Culvert Replacements and Road Rehabilitation

PISGAH RANGER DISTRICT
PISGAH NATIONAL FOREST
BUNCOMBE, HAYWOOD, HENDERSON AND TRANSYLVANIA COUNTIES
NORTH CAROLINA

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PREFACE

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-24 for construction of National Forest System Roads. The Forest Service Supplemental Specifications (FSSS) shall be incorporated in the FP-24. The applicable specifications for the project will be the FP-24 as modified by the FSSS.

Section 101. – TERMS, FORMAT, AND DEFINITIONS

Add the following paragraph to Subsection 101.01 Meaning of Terms:

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

Section 101. – TERMS, FORMAT, AND DEFINITIONS

Add the following to Subsection 101.03 Abbreviations:

(a) Acronyms.

AGAR — Agriculture Acquisition Regulations

AFPA — American Forest and Paper Association

FSSS – Forest Service Supplemental Specifications

MSHA — Mine Safety and Health Administration

NESC — National Electrical Safety Code

WCLIB — West Coast Lumber Inspection Bureau

(d) Miscellaneous unit abbreviations.

MP - milepost	location
ppm - parts per million	volume
STA – station	location
MFBM - thousand feet board measure	volume

Section 101. – TERMS, FORMAT, AND DEFINITIONS

Make the following changes to Subsection 101.04 Definitions:

Delete these definitions and replace with the following:

Bid Schedule — The Schedule of Items.

Bridge — A structure, including supports, erected over a depression or an obstruction such as water along a road, a trail, or a railway and having a deck for carrying traffic or other loads.

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 — Any structure with a bottom, regardless of fill depth, depth of invert burial, or presence of horizontal driving surface, or any bottomless (natural channel) structure with footings that will not have wheel loads in direct contact with the top of the structure.

Drawings —Design sheets or fabrication, erection, or construction details submitted to the CO by the Contractor.

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

Notice to Proceed — (Public Works Contracts) Written notice to the Contractor to begin the contract work. (Timber Contracts) does not apply, replace NTP with Contract Award.

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 definitions:

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.

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

Forest Service Supplemental Specifications – The Forest Service uses supplemental specifications to modify the FP-24 to meet the agency needs and intents. FSSS revise the FP-24 by adding, deleting, replacing, revising, replacing part of entire sections or subsections or adding new sections to the FP..

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.

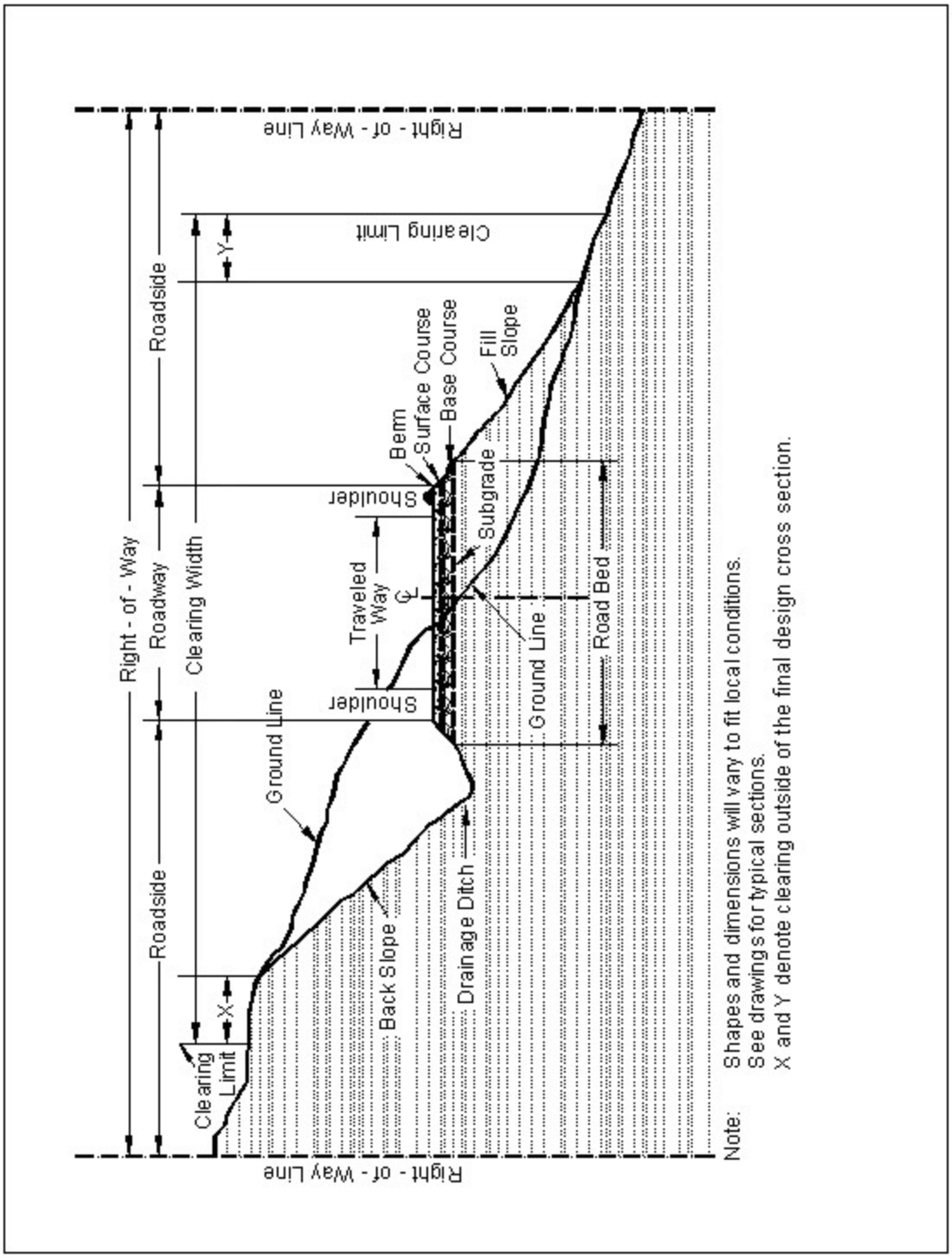
Protected Streamcourse — A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

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.

Utilization Standards — The minimum size and percent soundness of trees described in Public Works contract specifications or Timber Sale and stewardship contract provisions to determine merchantable timber.

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

Figure 101-1—Illustration of road structure terms



Section 102. - BID, AWARD, AND EXECUTION OF CONTRACT

Delete Section 102 Bid, Award, and Execution of Contract in its entirety.

Section 103. – SCOPE OF WORK

Delete all of Section 103 Scope of Work except Subsection 103.01 Intent of Contract.

Section 104. – CONTROL OF WORK

Delete Subsection 104.07 Coordination of Contract Documents.

Section 104. – CONTROL OF WORK

Add the following Subsection 104.12 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.

Section 105. – CONTROL OF MATERIAL

Delete second paragraph and subparagraphs (a) and (b) in Subsection 105.05 Use of Material Found in the Work and replace it with the following:

The right to use and process material found in the work excludes the use and processing of material for nongovernment contract work, except for the disposal of waste material. Materials produced or processed from Government lands in excess of the quantities required for performance of this contract are the property of the Government. Place excess material at government-approved agreed to location(s), at no additional cost to government.

Section 106. – ACCEPTANCE OF WORK

Delete the 3rd and 4th paragraphs in Subsection 106.01 Conformity with Contract Requirements.

Section 108. - PROSECUTION AND PROGRESS

Delete Section 108 Prosecution and Progress in its entirety.

Section 109. - MEASUREMENT AND PAYMENT

Delete Subsections 109.06 Pricing and Adjustments, 109.07 Estimated Work, 109.08 Progress Payments, and 109.09 Final Payment.

Section 109. - MEASUREMENT AND PAYMENT

Delete Table 109-1 of Subsection 109.01 Measurement of Work and replace with the following:

Table 109-1

Decimal Accuracy of Quantities for Payment

Pay Item	**Level of Precision**
Acre	0.01
Cubic Foot	1
Cubic Yard	1
Cubic Yard Exception - Structure Excavation; Sheathing; Materials; Bedding, Bed Course, and Backfill, Materials; Gabions;	0.1
Cubic Yard Exception – Concrete; Masonry	0.01
Day	1
Each	1
Gallon	1
Hour	0.1
Linear Foot	1
Linear Foot Exception - Timber, Steel, and Concrete Piles	0.1
M-Gallon	0.1
Mile	0.01
Month	0.1
Pound	1
Square Foot	0.1
Square Yard	0.1
Station	0.1
Thousand Board Feet Measure	0.01
Ton	0.1
Ton Exception - Calcium Chloride; Sodium Chloride; Hydrated Lime; Bituminous Materials; Pavements; Bed Course Materials	0.01
Week	0.1

Section 109. - MEASUREMENT AND PAYMENT

Delete Subsection 109.02(c) Measurement Terms and Definitions, Contract quantity and replace with:

(c) Contract quantity. The quantity to be paid is the quantity listed in the bid schedule. The contract quantity will be adjusted for authorized changes that affect the quantity or for errors made in computing this quantity when that error exceeds 15% or more. If there is evidence that a quantity specific as a contract quantity is incorrect by 15% or more, submit

calculations, drawings, or other evidence indicating why the quantity is in error and request in writing that the quantity be adjusted.

Section 152. – CONSTRUCTION SURVEY AND STAKING

Delete Subsection 152.05(d)(2) Survey and Staking Requirements, Slope and reference stakes, Conventional survey methods and replace with the following:

(2) Conventional survey methods. When required, locate slope stakes on designated portions of the road. Locate the slope stake catch points and use them to establish clearing limits and slope stake references.

Mark slope stakes with the station, the amount of cut or fill, the horizontal distance to centerline, and the slope ratios.

Place slope reference stakes at least 10 feet outside the clearing limit and mark with the offset distance to the slope stake. Place sight stakes when required.

Prior to clearing and grubbing operations, move the slope stake outside the clearing limit to the slope reference stake. After clearing and grubbing and before excavation, reset the slope stakes in their original position.

Use the designated method to establish the slope stake catchpoint.

Method I—Computed Method. Use the template information shown in the plans or other Government-provided data to calculate the actual location of the catchpoint. The slope stake "catchpoint distance" provided may be used as a trial location to initiate slope staking. Recatch slope stakes on any section that does not match the staking report within the tolerances established in Table 152-1.

Method II—Catchpoint Measurement Method. Determine the location of slope stake catchpoints by measuring the catchpoint distances shown in the plans or other Government-provided data.

Replace Table 152-1 Construction Survey and Staking Tolerances with the following:

Table 152-1

Construction Survey and Staking Tolerances (1)

	Tolerance Class A		Tolerance Class B (7)	
Staking Phase	**Horizontal**	**Vertical**	**Horizontal**	**Vertical**
Control points set from existing Government control points	±0.03 feet	±0.01 feet × √N (2)	±0.16 feet	±0.16 feet ×√N (2)
Mapping, topography, and cross-section Points	±0.16 feet	±0.16 feet	±1.00 feet	±0.50 feet
Centerline points (3)	±0.06 feet	±0.06 feet	±0.16 feet	±0.16 feet
Slope-stake and slope-stake references (4)	±0.16 feet	±0.16 feet	±0.50 feet	±0.16 feet
Culverts, ditches, and minor drainage structures stakes	±0.16 feet	±0.06 feet	±0.50 feet	±0.16 feet
Retaining walls stakes	±0.06 feet	±0.03 feet	±0.06 feet	±0.03 feet
Curb and gutter stakes	±0.06 feet	±0.03 feet	±0.06 feet	±0.03 feet
Bridge substructures stakes	±0.03 feet (5)	±0.03 feet	±0.03 feet (5)	±0.03 feet
Bridge superstructures stakes	±0.03 feet (5)	±0.03 feet	±0.03 feet (5)	±0.03 feet
Clearing and grubbing limit stakes	±1.00 feet	–	±2.00 feet	—
Roadway subgrade finish stakes-Tolerance Class A (6)	±0.16 feet	±0.03 feet	±0.50 feet	±0.16 feet
Roadway finish grade stakes (6)	±0.16 feet	±0.03 feet	±0.50 feet	±0.16 feet

(1) At statistical 95 percent confidence level. Tolerances are relative to existing Government control points.
(2) N is the number of instrument setups.
(3) Centerline points: PC - point of curve, PT - point of tangent, POT - point on tangent, POC - point on curve.
(4) For Tolerance Class A only, take the cross-sections normal to the centerline ±1 degree.
(5) Bridge control is established as a local network and the tolerances are relative to that network.
(6) For Tolerance Class A only, includes paved ditches.
(7) Tolerance Class B for Very Low Volume Roads with an aggregate or native finished surface.

Section 153. – CONTRACTOR QUALITY CONTROL

Delete Subsection 153.02 Qualifications and replace with the following:

153.02 Qualifications. Submit the following for approval with the quality control plan:

(a) Quality control manager (QCM). Furnish a QCM who has experience in construction, inspection, quality control and material testing on construction projects of similar type and scope.

(b) Testers. Provide testers with at least 1 years' experience in the type of sampling and testing required, and with one of the following for the type of sampling and testing performed:

(1) National Institute for Certification in Engineering Technologies (NICET) Level II certification in construction materials testing for similar material types or equivalent state or industry certification;

(2) Certification by a state or regional certification program, such as Western Alliance for Quality Transportation Construction or Northeast Transportation Technician Certification Program; or

(3) At least 1 year of employment by an AASHTO accredited laboratory performing equivalent sampling and testing with competence according to AASHTO R 18.

Section 153. – CONTRACTOR QUALITY CONTROL

Add the following paragraph to the end of Subsection 153.03(b) Quality Control Plan, QC procedures:

Submit written proposals for approval of alternate AASHTO or State approved test methods. Alternate methods may be allowed based on documented equivalence to the specified method.

Section 153. – CONTRACTOR QUALITY CONTROL

Delete Subsection 153.08 Records and Control Charts and replace with the following:

Maintain complete testing and inspection records by pay item number and make them accessible to the CO.

Section 155. – SCHEDULES FOR CONSTRUCTION CONTRACTS

Delete Section 155 Schedules for Construction Contracts in its entirety and replace with the following:

155.01 General. Provide a construction schedule showing all major activities start and end dates for completion during the period of performance for the contract.

Section 157. – SOIL EROSION AND SEDIMENT CONTROL

Add before first sentence in Subsection 157.04 General:

Thirty (30) days prior to the start of construction, submit a written plan according to subsection 104.04 with all necessary permits that provides permanent and temporary erosion control measures to minimize erosion and sedimentation during and after construction.

Section 201. - CLEARING AND GRUBBING

Delete paragraph (c) in Subsection 201.04(c) Clearing and replace with the following:

(c) In areas outside the excavation, embankment, and slope rounding limits, cut stumps to maximum stump height shown in table below.

Fall and buck the merchantable material at lengths longer than the minimum lengths listed, or in multiples thereof (i.e. 8 ft, 16 ft, 24 ft, 32 ft), not to exceed 32 feet in length to allow for transportation of the material. Merchantable timber shall be decked at designated location(s).

Forest Products Utilization Standards:					
Species	Product	Max. Stump Height	Minimum Specifications		
			Piece Required to be Removed		
			Length *(feet)*	Diameter Inside Bark at Small End *(inches)*	Net as Percent of Gross
White Pine Hemlock	Sawtimber	12”	8	9	30%

Yellow Pine Spruce/Fir	Sawtimber	10”	8	6.3	30%
Red Maple, Poplar, Cucumber, Basswood, Ash, Red Oak, White Oak, Black Oak, Black Cherry, Sugar Maple, Chestnut Oak, Walnut	Sawtimber[1]	12”	8	8	30%
Birch, Beech, Sycamore, Buckeye, Hickory, Black Locust, Scarlet Oak, Sourwood, Blackgum, Southern Red Oak, Wahoo, Silverbell, Hackberry, Sweet Gum	Sawtimber[1]	13”	8	8	50%
Softwood	Small Roundwood	8”	20	3.5	--
Hardwood	Small Roundwood	8”	20	3.5	--

[1] All hardwood sawtimber must meet Forest Service Hardwood Tree Grade 3 per R8 2409.18, Section 53.4, Exhibit 02.

Section 201. - CLEARING AND GRUBBING

Delete Subsection 201.06 Disposal and replace with the following:

201.06 Disposal. Merchantable timber is Government property. Dispose of clearing and grubbing debris according to Subsection 203.07.

Section 203. – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Add the following to Subsection 203.07 Disposing of Material:

Dispose of unsuitable and excess material according to the specified method(s) as follows:

(a) Windrowing Construction Slash. Place construction slash outside the roadway in neat, compacted windrows approximately parallel to and along the toe line of embankment slopes. Do not permit the top of the windrows to extend above subgrade. Use construction equipment to matt down all material in a windrow to form a compact and uniform pile. Construct breaks of at least 15 feet at least every 200 feet in a windrow. Do not place windrows against trees.

(b) Scattering. Scatter construction slash in designated areas without damaging trees. Limb all logs. Place logs and stumps away from trees, positioned so they will not roll, and are not on top of one another. Limb and scatter other construction slash to reduce slash concentrations. When scattering for erosion control, place construction slash as flat as practicable on the completed slope.

(c) Chipping. Use an approved chipping machine to chip slash longer than 3 feet. Deposit chips on embankment slopes or outside the roadway to a loose depth less than 6 inches. Minor amounts of chips or ground woody material may be permitted within the roadway if they are thoroughly mixed with soil and do not form a layer.

(d) Debris Mat. Use tree limbs, tops, cull logs, split stumps, wood chunks, and other debris to form a mat upon which construction equipment is operated. Place stumps upside down and blend stumps into the mat.

(e) Decking. Remove brush from designated log deck areas. Limb and top logs.

Logs not meeting the Utilization Standards described in Subsection 201.04(c) shall be cut to lengths less than 8 feet and decked in designated log deck location.

Merchantable timber not associated with an existing timber sale shall be cut to length meeting the Utilization Standards described in Subsection 201.04(c).

Deck logs so that logs are piled parallel to one another; can be removed by standard log loading equipment; will not damage standing trees; will not interfere with drainage, and will not roll. Keep logs in log decks free of brush and soil.

(f) Removal to designated locations. Remove construction slash to designated locations.

(g) Piling. Pile construction slash in designated areas. Place and construct piles so that if the piles are burned, the burning will not damage remaining trees. Keep piles free of dirt from stumps.

Section 204. – EXCAVATION AND EMBANKMENT

Delete Subsection 204.06 Roadway Excavation and replace with the following:

204.06 Roadway Excavation. Excavate as follows:

> **(a) Rock cuts.** Verify the top portion of the rock cuts during pioneer access or initial excavation. Construct the final soil cut before starting drilling for rock blasting or other rock excavation methods unless approved. Blast rock according to Forest Service Supplemental Specification Section 205 if approved by the CO. Excavate rock cuts to 6 inches below subgrade within the roadbed limits. Backfill to subgrade with select borrow. Compact the material according to Subsection 204.11.

(b) Earth cuts. Scarify earth cuts to 6 inches below subgrade within the roadbed limits. Compact the scarified material according to Subsection 204.11.

(c) Drainage Feature. Drainage feature includes construction of all ditches, minor channel changes, drainage dips, catch basins, surface water deflectors, and other minor drainage structures. Compact the material according to Subsection 204.11. Excavate on a uniform grade between control points.

Remove snow or ice in advance of the work and deposit beyond the roadway limits in a manner to prevent resource damage.

Conserve 6-inch minus material from the roadway excavation to use for finishing the roadbed. Dispose of unsuitable or excess excavation material according to Subsection 204.14. Replace shortage of suitable material caused by premature disposal of roadway excavation.

At the end of each day's operations, shape to drain and compact the work area to a uniform cross-section.

Section 204. – EXCAVATION AND EMBANKMENT

Delete and replace the first paragraph in Subsection 204.11 Compaction with the following:

When determining the quantity of material retained on a No. 4 sieve for compaction, use AASHTO T27. Compact each lift of material to a firm and stable condition and until there is no visible evidence of further consolidation or deflection. Compact using one of the following as specified:

Add the following to Subsection 204.11 Compaction:

(d) Adjust the moisture content of the material to a moisture content suitable for compaction. Fill the interstices around rock with earth or other fine material as practical. Operate roller compaction equipment over the full width of each layer until there is no visible evidence of further consolidation or, if when a sheepsfoot roller is used, the roller "walks out" of the layer. Make at least three complete passes. Use compression-type rollers at speeds less than 6 feet per second and vibratory rollers at speeds less than 3 feet per second. Ensure rollers meet the following requirements:

(1) Steel wheeled rollers, other than vibratory, capable of exerting a force of not less than 250 pounds per inch of width of the compression roll or rolls.

(2) Vibratory steel wheeled rollers equipped with amplitude and frequency controls with a minimum dynamic force of 30,000 pounds impact per vibration, specifically designed to compact the material on which it is used.

(3) Pneumatic-tired rollers with smooth tread tires of equal size that will provide a uniform compacting pressure for the full width of the roller and capable of exerting a ground pressure of at least 80 psi.

(4) Sheepsfoot, tamping, or grid rollers capable of exerting a force of 250 pounds per inch of width of roller drum

(e) Adjust the moisture content of the material to a moisture content suitable for compaction. Fill the interstices around rock with earth or other fine material as practical. Operate hauling and spreading equipment uniformly over the full width of each layer until there is no visible evidence of further consolidation. Make at least three complete passes.

(f). Adjust the moisture content of the material to a moisture content suitable for compaction. Fill the interstices around rock with earth or other fine material as practical. Operate hauling and spreading equipment uniformly over the full width of each layer.

(g) Adjust the moisture content of the material to a moisture content suitable for compaction. Compact the complete surface with a bucket of an excavator larger than 39,000 pounds Gross Vehicle Weight using a minimum of three blows. Overlap compaction by ½ width of bucket.

(h) Adjust the moisture content of the material to a moisture content suitable for compaction. Compact using an approved mechanical tamper for a minimum of three complete passes.

When compacting with rollers or hauling and spreading equipment is not practical, use approved mechanical tampers for a minimum of three complete passes.

Section 204. – EXCAVATION AND EMBANKMENT

Delete 204.16(a)(1)(a) Measurement, Roadway Excavation and replace with the following:

(a) Roadway prism excavation;

Add the following to Subsection 204.16(g) Measurement:

(g) Drainage features. Measurement includes all excavation, embankment, shaping, and grading necessary for a completed drainage feature.

Section 209. - STRUCTURE EXCAVATION AND BACKFILL

Add the following to Subsection 209.09(a) Backfill, General:

Backfill without damaging or displacing the culvert or structural plate structure. Replace any pipe that is distorted by more than 5 percent of nominal dimensions, or that is ruptured or broken.

Do not place or backfill pipe that meets any of the following conditions until the excavation and foundation have been approved by the CO:

- Installation in a protected stream course.
- Round pipe with a diameter of 48 inches or greater.
- Pipe arches with a span of 50 inches or greater.
- Any box culvert or structure other than pipe culverts.

Section 252. - ROCKERY, SPECIAL ROCK EMBANKMENT, AND ROCK BUTTRESS

Delete Subsection 252.04 Qualifications and 252.05 and Submittals.

Section 302. - CRUSHED AGGREGATE

Delete gradation row in Table 302-1 in Section 302 Crushed Aggregate when not using gradation testing.

Section 302. - CRUSHED AGGREGATE

Add the following to Subsection 302.02 Material:

Soil	704

Section 302. - CRUSHED AGGREGATE

Add the following to Subsection 302.04 Mixing and Spreading:

Written approval of the surface is required before placing aggregate.

Section 302. - CRUSHED AGGREGATE

Add the following to Subsection 302.04(a) Mixing and Spreading, Roadway Aggregate:

For pit run material, furnish material smaller than the maximum size identified in the plans, no gradation will be required otherwise. After processing on the road, remove all oversize material from the road and dispose as directed by the CO.

Section 302. - CRUSHED AGGREGATE

Delete and replace 302.05(a)(1) Compacting and Finishing Crushed Aggregate, Roadway aggregate, Method 1 with the following:

(1) Method 1. Compact each lift according to Subsection 204.11.

Section 552. – STRUCTURAL CONCRETE

Delete from Table 552-10 Remarks column "Deliver verification cylinders to the CO or designated laboratory for scheduled testing" in Section 552 Structural Concrete.

Section 633. - PERMANENT TRAFFIC CONTROL

Delete the first sentence of Subsection 633.03 General and replace with the following:

Provide and install permanent traffic control devices according to the MUTCD, USDA Forest Service EM-7100-15 and as shown in the plans.

Add the following sentence to Subsection 633.03 General:

Sign panel layout proofs shall be approved by the CO prior to ordering.