

FOREST SERVICE SUPPLEMENTAL SPECIFICATION /
DESCRIPTION OF WORK

STEWARDSHIP ROAD CLOSURES 2016

CHIPPEWA NATIONAL FOREST

CH 10552

Rev. 0

2/8/2016

SECTION C – DESCRIPTION/SPECIFICATIONS

C.1 Scope of Work:

Work includes furnishing all labor, equipment and materials necessary to close roads as listed in the Work List through the methods prescribed in this specification. The project scope will include construction of earth road closure berms, installation of gate road closures, removal of fill material, installation of boulder road closures or any combination of these methods.

The Contractor shall be responsible for obtaining all licenses and permits required to perform the work.

C.2 Location of Work:

All project sites are located in Cass and Itasca Counties Minnesota within the boundaries of the Chippewa National Forest, Blackduck and Deer River Districts.

FR2091A is located in Section 27, Township 148 North, Range 31 West. Existing closure requires reinforcement.

FR2114 is located in Section 32, Township 148 North, Range 28 West. Existing closure needs gated access for snowmobiles.

FR2162K is located in Section 11, Township 145 North, Range 27 West.

FR2168B is located in Section 28, Township 146 North, Range 29 West. Existing closure requires reinforcement.

FR2192 is located in Section 04, Township 147 North, Range 28 West. Existing closure needs gated access for snowmobiles.

FR2196I is located in Section 34, Township 148 North, Range 28 West.

FR2196L is located in Section 05, Township 147 North, Range 28 West.

FR2213B is located in Section 27, Township 148 North, Range 31 West. Existing closure requires reinforcement.

FR2224P is located in Section 32, Township 148 North, Range 28 West.

FR2416 is located in Section 13, Township 148 North, Range 31 West. Existing gated closure requires reinforcement at MP 0.35.

FR2794B is located in Section 29, Township 147 North, Range 28 West. Existing closure requires reinforcement.

FR3114A is located in Section 28, Township 147 North, Range 28 West. Existing closure requires reinforcement.

FR3328A is located in Section 12, Township 149 North, Range 28 West.

FR3359B is located in Section 24, Township 149 North, Range 27 West.

FR3449A is located in Section 02, Township 147 North, Range 31 West. Existing closure requires reinforcement to allow for snowmobile access only (minimum opening 48”).

FR3494 is located in Section 27, Township 58 North, Range 25 West. Existing closure at M.P. 0.7 (carry-in boat access) requires reinforcement.

U1104 is located in Section 23, Township 147 North, Range 28 West.

Vicinity maps included in the project drawings show the project locations.

C.3 Description of Work:

The project involves closing several forest roads through a variety of methods and treatments. All roadways shall be closed by one or more of the following methods: 1) construction of earth road closure berms, 2) installation of gate road closures, 3) removal of fill material, 4) installation of boulder road closures or any combination of these methods.

The work included in each of the prescribed road treatments includes but is not limited to the following;

Berm Closure: Construct an earth berm using available materials to block the road to motorized vehicle access. The berm may include, but is not limited to the use of brush, logs, rock, removed fill and other related materials available on site. No off site material is required. The logs, slash, rocks, and fill shall be mixed to create the berm. If no logs or rock are available in the vicinity of the closure, slash shall be generated from the forest land immediately adjacent to the project area. Trees cut for use as slash shall be approved by the COR.

Berms shall be a minimum of 4 feet high, across the entire road width or to the length designated in the Work List, with a minimum base width of 10 feet. These will vary in length, height and size to fit the site. The location of the berm closures will be designated in the field by the COR.

Construct the berm closures as flagged at the location or as coordinated with the COR for the full length given in Work List.

Measurement of berms shall be on an Actual Quantity basis. The measurement will include all materials and the completed work.

Boulder Barricade: Provide and place the specified number of boulders at the location designated in the field by the COR to block motorized vehicle access. The boulders shall have a minimum diameter of 28 inches and shall be placed with a maximum spacing of 42 inches between boulders. The boulders shall be countersunk into the ground by 1/3 of the boulder height. The material provided shall be Type 3 Rock complying with FP03 Section 705. The location of the boulder barricades will be designated in the field by the COR.

Measurement of boulders shall be on an Actual Quantity basis. The measurement will include all material, haul and excavation needed to complete the work.

Gate Installation: Furnish and install double gates fabricated as shown on drawing in the two locations as staked in the field. Government will provide signs. Contractor shall provide gate, concrete and all other labor, equipment and materials. Contractor is responsible for fabrication, delivery and installation of gates. Contractor is also responsible for installation of government provided signs.

Commercially bagged dry concrete mixed as per manufacturer's instruction is acceptable for gate installations. Allow 5 days for curing prior to hanging gates.

Signs will be provided by the government and may be picked up at the Supervisor's Office in Cass Lake.

Measurement of gate installations shall be on an Actual Quantity basis. The measurement will include all materials for each installation and the completed work.

Fill Removal: All fill will be removed for the distances called for from the sites indicated on the attached map. The entire road prism in these sections shall be removed and the elevation shall be returned to natural ground. Begin and end excavation with a 2:1 slope or gentler for transition. The material can be placed outside the wetlands and shaped to drain.

Measurement of the fill removal shall be on a Lump Sum basis. The measurement will include all excavated materials and the completed work.

Estimated Price Range: Less than \$40,000

C.3.2 Construction Surveying

The Government will stake the locations of gates, boulder and berm road closures and fill removals prior to start of work. The Contractor will be responsible for maintaining those stakes, staking any required offsets, and conducting all further survey work.

C.4 Standard Specifications for the Construction of Roads and Bridges on Federal Highway Projects, FP-03

The Standard Specifications for the Construction of Roads and Bridges on Federal Highway Projects, FP-03, are included by reference. The requirements contained in these specifications are hereby made a part of this solicitation and any resultant contract.

ISBN 0-16-051430-4

The FP-03 U.S. Customary version is only available through the Federal Lands Highway office:

Headquarters

Washington DC

David K. Green

Construction Standards Engineer

Internet: David.Green@fhwa.dot.gov

Mail: federal Highway Administration

HFPD-3

400 Seventh Street SW

Washington D.C. 20590

Or available on line at <http://www.wfl.fha.dot.gov/design/specs/>

BEST MANAGEMENT PRACTICES BMP'S

Soil and Water Conservation Handbook FSH 2509.22

This Forest Service Handbooks along with all other Handbooks can be found on line in both HTML or PDF page description format at:

<http://www.regulations.gov>

C.5 Safety and Public Notification

Warning signs will be placed at the proper locations to warn public of road work. All signs shall meet the minimum requirements as established by the Manual of Uniform Traffic Control

devices (MUTCD), 2003 edition. A notice of where and when the public might expect delays due to project work will be posted on access roads to project.

C.6 Damage to Structures

The Contractor shall be held liable for any damage caused by his/her personnel to any existing bridges, ditches, culverts, or signs. Repair of structures damaged by the Contractor's operations, shall be their responsibility at no cost to the Government.

C.7 Submittals and Notifications

Submittal Schedule:

The following required items need to be submitted according to the schedule shown to prevent delays or stoppages of work.

<u>ITEM</u>	<u>ACTION</u>	<u>SCHEDULE</u>
<input type="checkbox"/> Construction Schedule	Approval by CO/COR	2 weeks before mobilization
<input type="checkbox"/> Hazardous Spill Plan	For Record*	2 weeks before mobilization
<input type="checkbox"/> List of Subcontractors and Suppliers	For Record*	2 weeks before mobilization
<input type="checkbox"/> Traffic Control Plan	Approval by CO/COR	2 weeks before mobilization
<input type="checkbox"/> Gopher State ticket number and list of utilities in area	For Record*	Before excavation

* "For record" assumes that an Item which meets Specifications as written is supplied. Other "equal" products require review and approval by the CO/COR, and may take longer to review.

Notification Schedule:

The following events require an advance written notification to the COR. Notifications may be faxed, mailed, emailed, or hand delivered.

<u>EVENT</u>	<u>PRIOR NOTICE REQUIRED</u>
<input type="checkbox"/> Change in Schedule	As soon as identified
<input type="checkbox"/> Intent to mobilize	48 hours
<input type="checkbox"/> Intent to start excavation	48 hours

SCHEDULE OF ITEMS
STEWARDSHIP ROAD CLOSURES 2016

Item	Description	Method of Measure	Unit	Qty	Unit Price	Item Price
01	MOBILIZATION	CQ	LS	1		
02	BERM CONSTRUCTION	CQ	LF	362		
03	BOULDERS FOR CLOSURE	AQ	EA	52		
04	FURNISH AND INSTALL GATE	AQ	EA	2		
05	FILL REMOVAL	LSQ	LS	1		
TOTAL ALL ITEMS						

Company _____

Federal Tax ID _____

Name _____

Title _____

Signature _____

Date _____

C.9 Special Project Specification and Forest Service Supplementation

Table of Contents

Table of Contents.....	7
Preface.....	9
101 - Terms, Format, and Definitions.....	10
101.01 Meaning of Terms.....	10
101.03 Abbreviations.....	10
101.04 Definitions.....	10
102 - Bid, Award, and Execution of Contract	13
102 Bid, Award, and Execution of Contract.....	13
103 - Scope of Work	13
Deletions	13
104 - Control of Work.....	13
Deletions	13
104.06 Use of Roads by Contractor.....	13
105 - Control of Material	14
105.02 Material Sources.	14
105.02(a) Government-provided sources.....	14
105.05 Use of Material Found in the Work.	14
106 - Acceptance of Work	14
106.07 Delete	14
107 - Legal Relations and Responsibility to the Public.....	14
107.05 Responsibility for Damage Claims.....	14
107.06 Contractor’s Responsibility for Work.....	14
107.09 Legal Relationship of the Parties.	15
107.10 Environmental Protection.	15
108 - Prosecution and Progress.....	16
108 Delete.....	16
109 - Measurement and Payment.....	16

109 Deletions	16
109.02 Measurement Terms and Definitions.....	16
152 - Construction Survey and Staking	17
152 Deletions	17
152.01 General.....	17
152.02 Construction Staking.....	17
153 - Contractor Quality Control.....	17
153.04 Records.	17
155 - Schedules for Construction Contracts	17
155 Delete.	17
705 - Rock.....	18
705.08 Barricade Rock.....	18

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.

101.03_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.

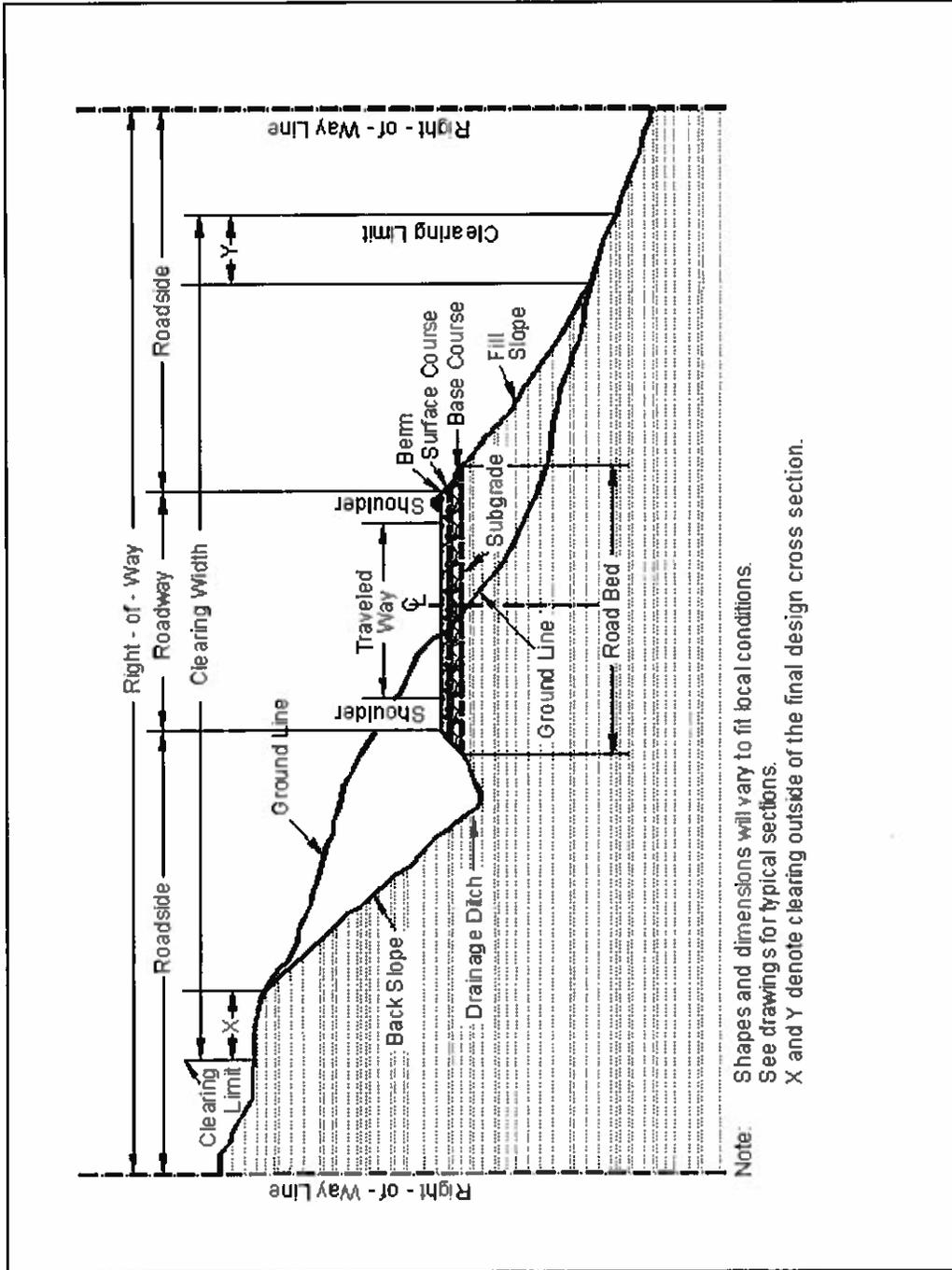
Road Order--An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

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.



Note: Shapes and dimensions will vary to fit local conditions.
See drawings for typical sections.
X and Y denote clearing outside of the final design cross section.

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”.

107.09_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”.

152 - Construction Survey and Staking

152.00_nat_us_08_05_2005

Description

152 Deletions

Delete the entire section and replace with the following:

152.01 General

Upon request, before the start of the work, the Government will provide temporary staking indicating the location of road closure barriers. Protect and maintain staking as required.

152.02 Construction Staking

Before starting work, the Contractor will review the temporary staking, clarify any uncertainties, and accept the staking in writing. After acceptance of the temporary staking, any and all of the required construction staking is the responsibility of the Contractor.

Establish and maintain survey ties until final acceptance of the work.

Maintain survey notes on site for review by the GR at all times. Use moisture-resistant paper for survey notes. Keep notes in books with covers that will protect the contents and retain the pages in numerical sequence.

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.

705 - Rock

705.08_nut_us_04_17_2008

705.08 Barricade Rock

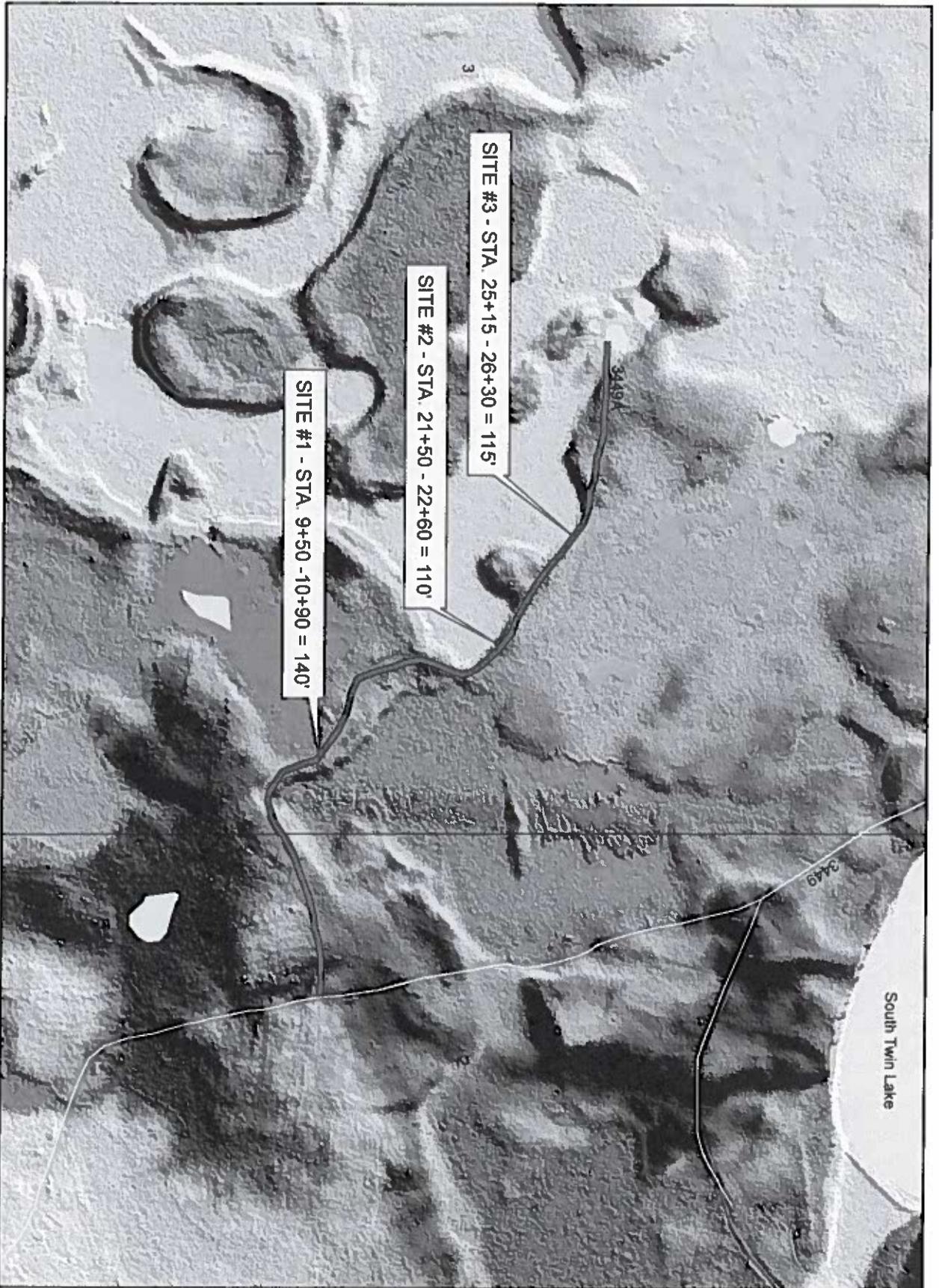
(a) General. Furnish hard, durable rock that consists of intact blocks without open fractures, foliation, or other planes of weakness. Conform to test values in 705.02.

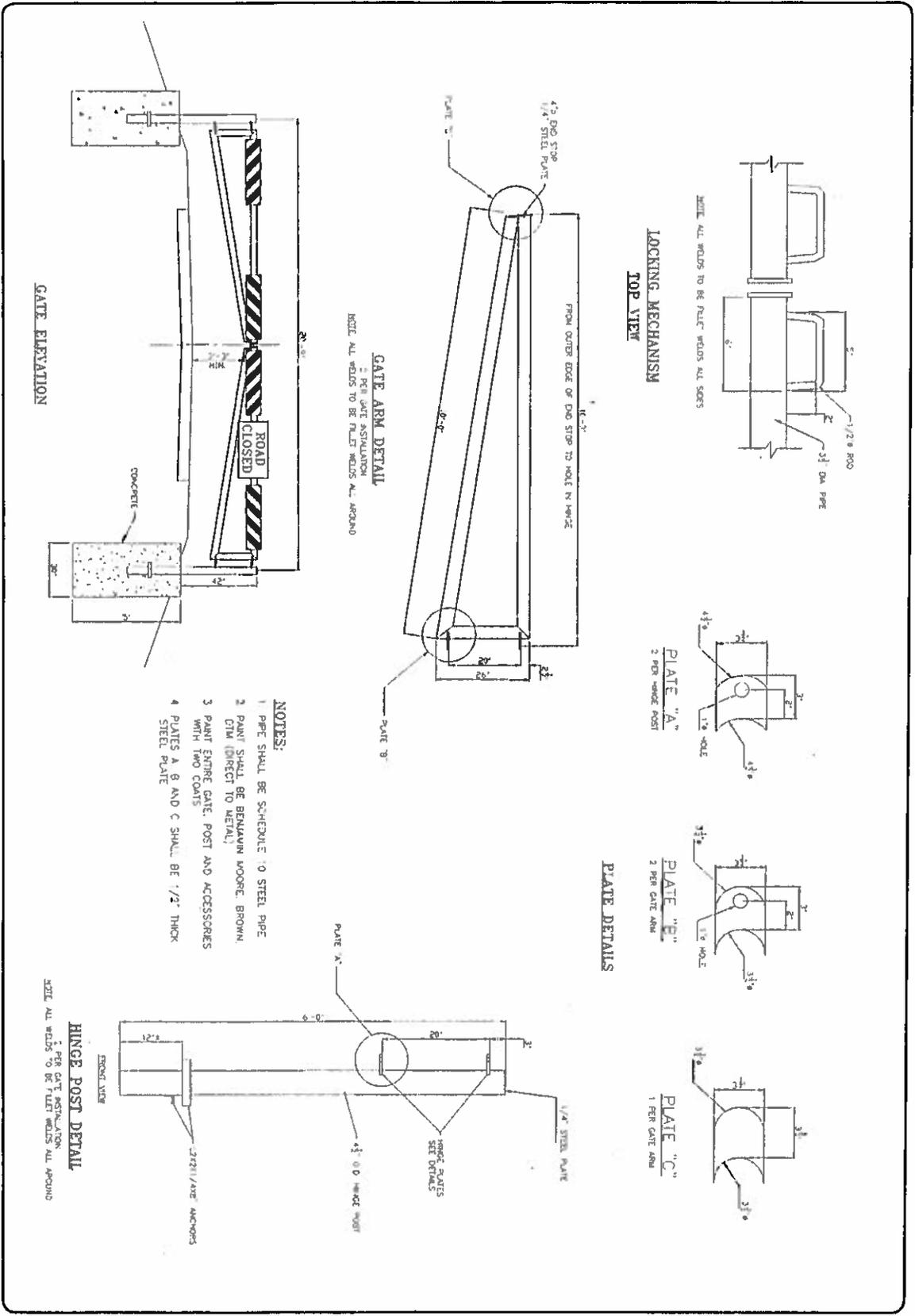
(b) Sized and shapes. Furnish rocks that are generally cubical, tabular, or rectangular in shape, with dimensions as designated, or as specified in the following table:

Table 705-6 gradation requirement for Barricade Rock

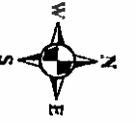
Rock Size (Man Rock)	Mass (Pounds)	Approximate Cubic Dimension (inches)
1	50-200	12-18
2	200-700	18-28
3	700-2000	28-36
4	2000-4000	36-48
5	4000-6000	48-54
6	6000-8000	54-60

FR3449A FILL REMOVAL

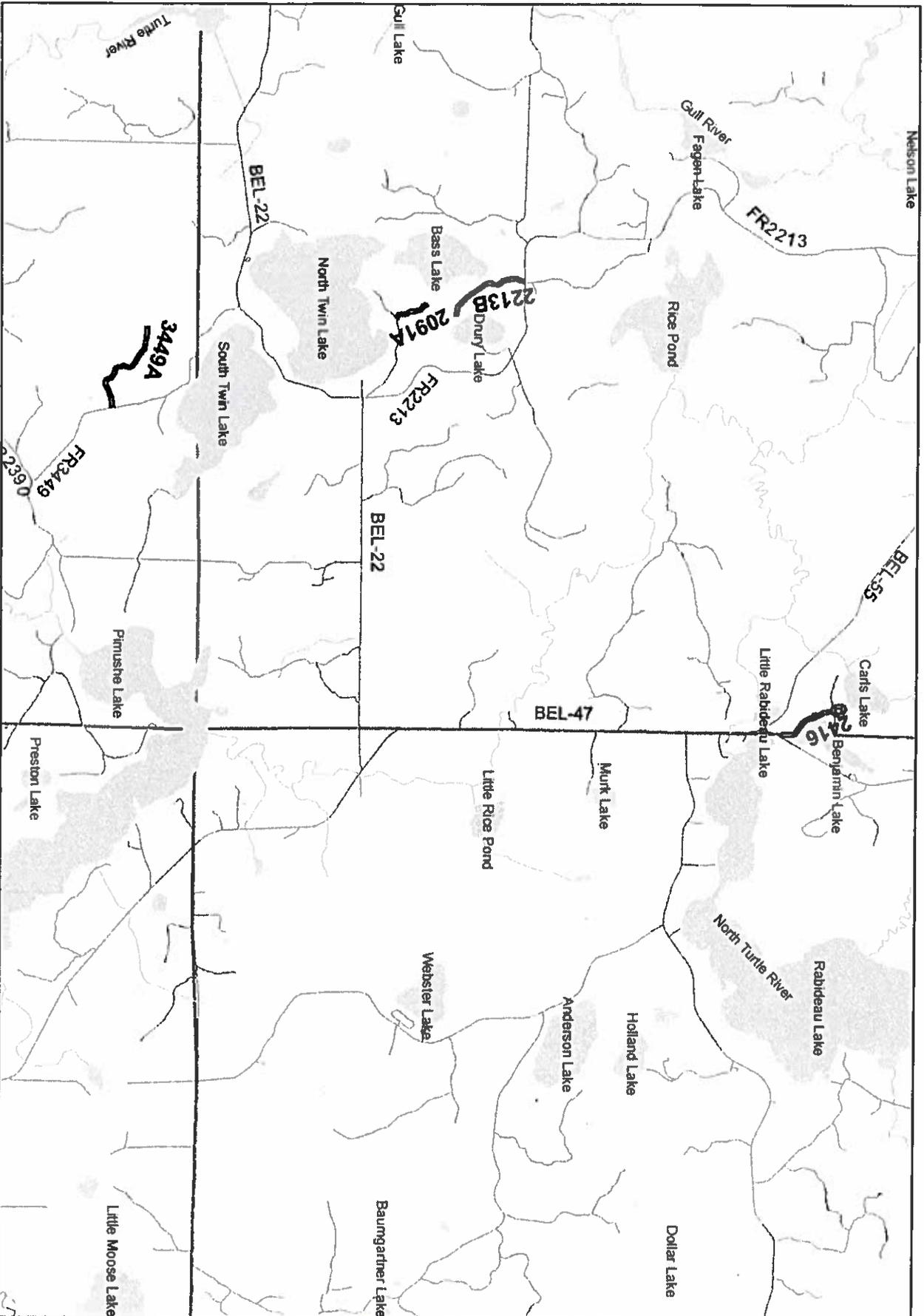




Stewardship Road Closures 2016 Work List				
ROAD	ITEMS	QUANTITY	UNIT	REMARKS
FR2091A	Berm Construction	20	LF	"Y" junction berm at tree beyond fork. Place boulders between trees left of berm.
	Boulders	8	EACH	
FR 2114	Furnish and Install Gate	1	EACH	Furnish and install gate. Scatter existing boulders alongside to reinforce closure.
FR 2162K	Berm Construction	30	LF	Construct 70' in from junction. Place between trees and along the main road for 90' northwest of junction.
	Boulders	5	EACH	
FR2168B	Boulders	4	EACH	Place scattered within 50' of junction.
FR 2192	Furnish and Install Gate	1	EACH	Furnish and install gate. Place existing boulders to reinforce closure.
FR2196I	Berm Construction	40	LF	Start berm on rise between birch clusters.
FR2196L	Berm Construction	30	LF	Construct 50' in from junction, tie to trees.
FR2213B	Boulders	16	EACH	Place boulder parallel to road for 140' east of junction.
FR2224P	Berm Construction	25	LF	Construct 25' between trees.
FR2416	Boulders	4	EACH	Place boulders along side gate at loop where being breached.
FR 2794B	Berm Construction	25	LF	Extend existing berm to tree line. Place 3 in front of slash/3 where being breached.
	Boulders	6	EACH	
FR3114A	Berm Construction	25	LF	Improve existing berm 120' in from junction.
FR3328A	Berm Construction	70	LF	Construct 25' berm between trees, mix down slash into berm. Construct second berm 45' long and 130' back towards junction between trees.
FR3359B	Berm Construction	40	LF	Construct bank to bank.
FR3449A	Berm Construction	12	LF	Existing 7 boulders. Remove fill from three locations. See attachment. Place 3 additional boulders left of road. Construct berm 20' before boulders. Allow for snowmobile access.
	Boulders	3	EACH	
	Fill Removal	1	LS	
FR3494	Boulders	6	EACH	Place at M.P. 0.7 (carry-in boat access) between parking area and access.
U1104	Berm Construction	45	LF	Construct 50' in from junction.

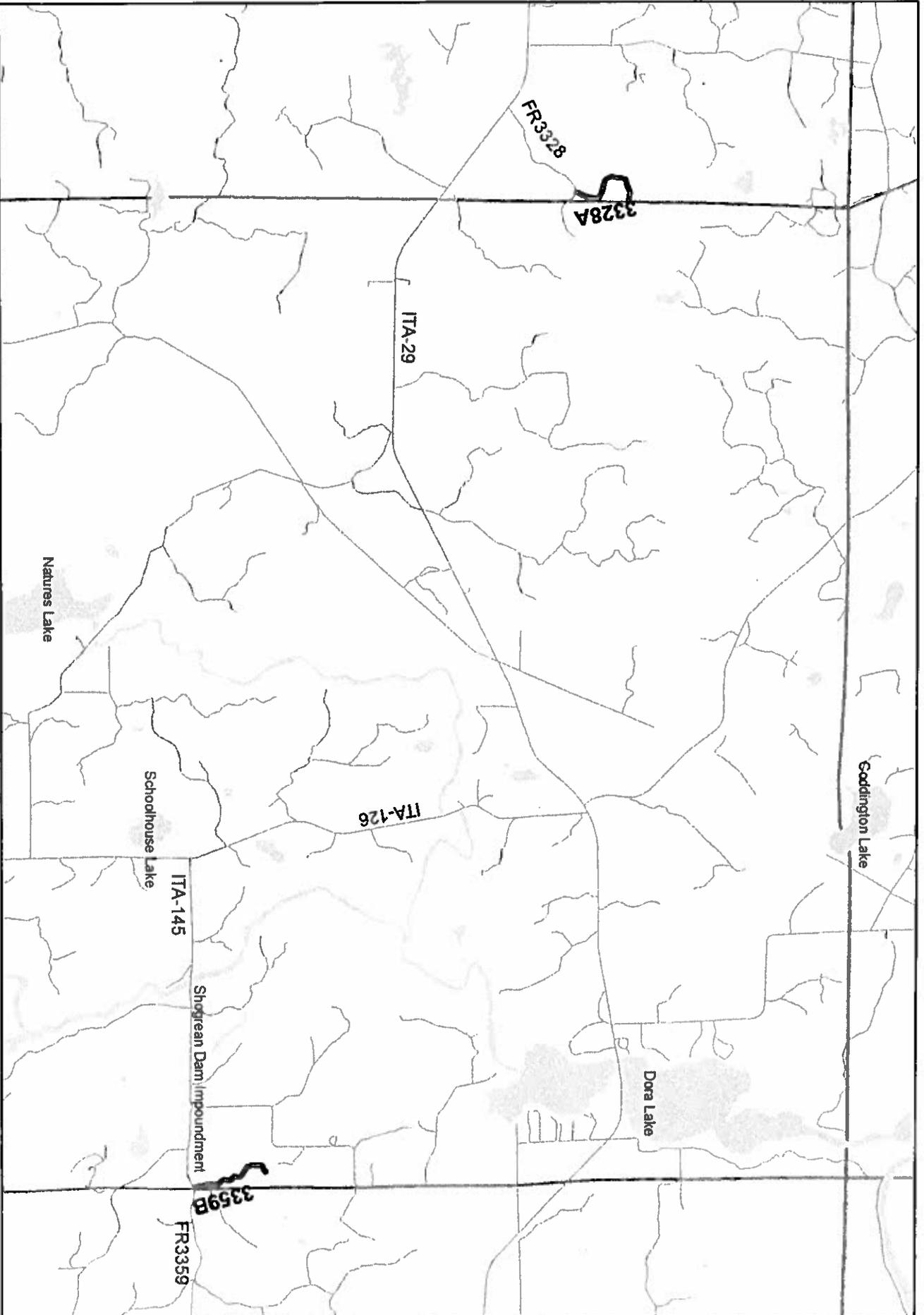


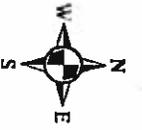
CHIPPEWA NATIONAL FOREST STEWARDSHIP ROAD CLOSURES 2016 - MAP A



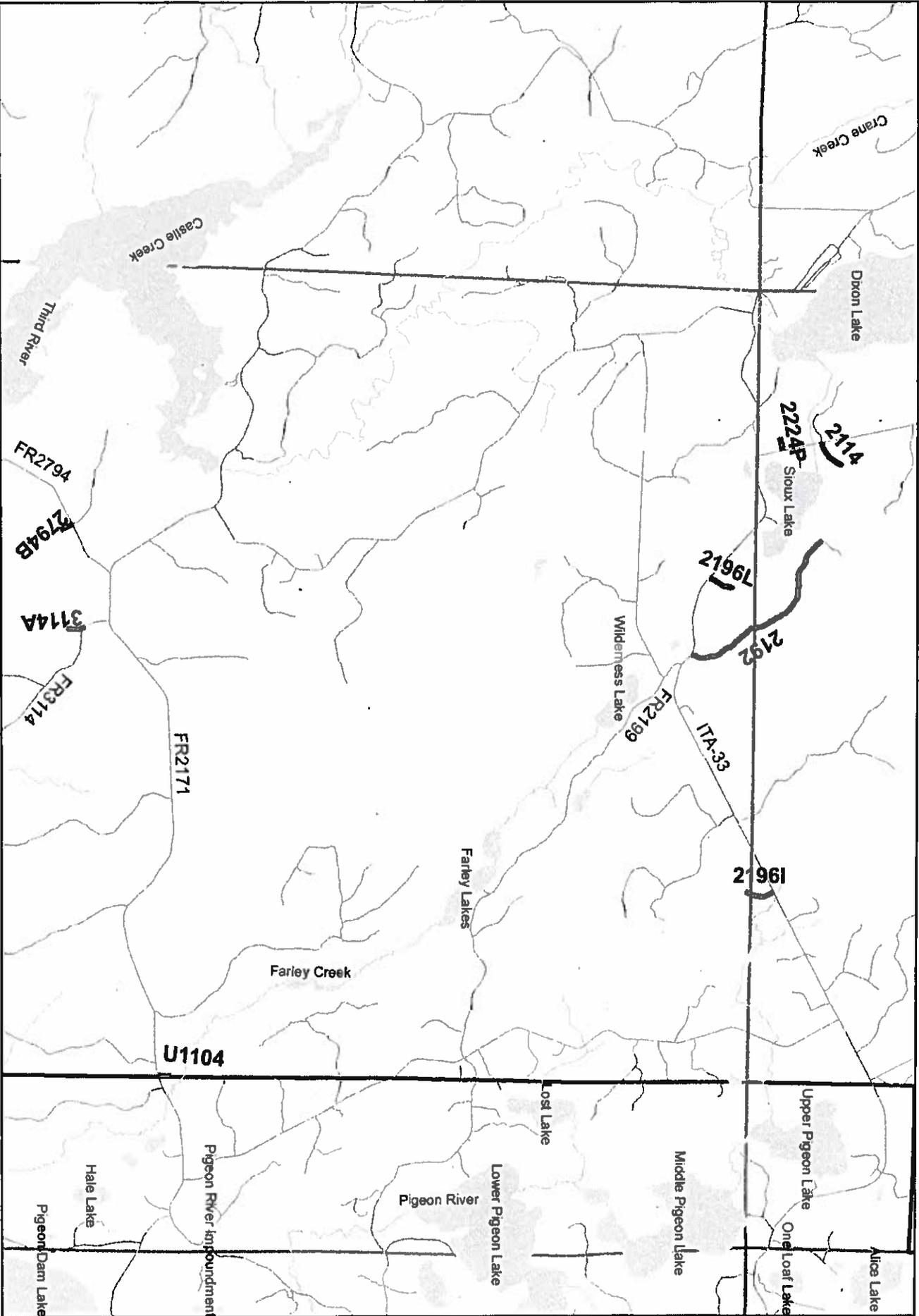


CHIPPEWA NATIONAL FOREST STEWARDSHIP ROAD CLOSURES 2016 - MAP B



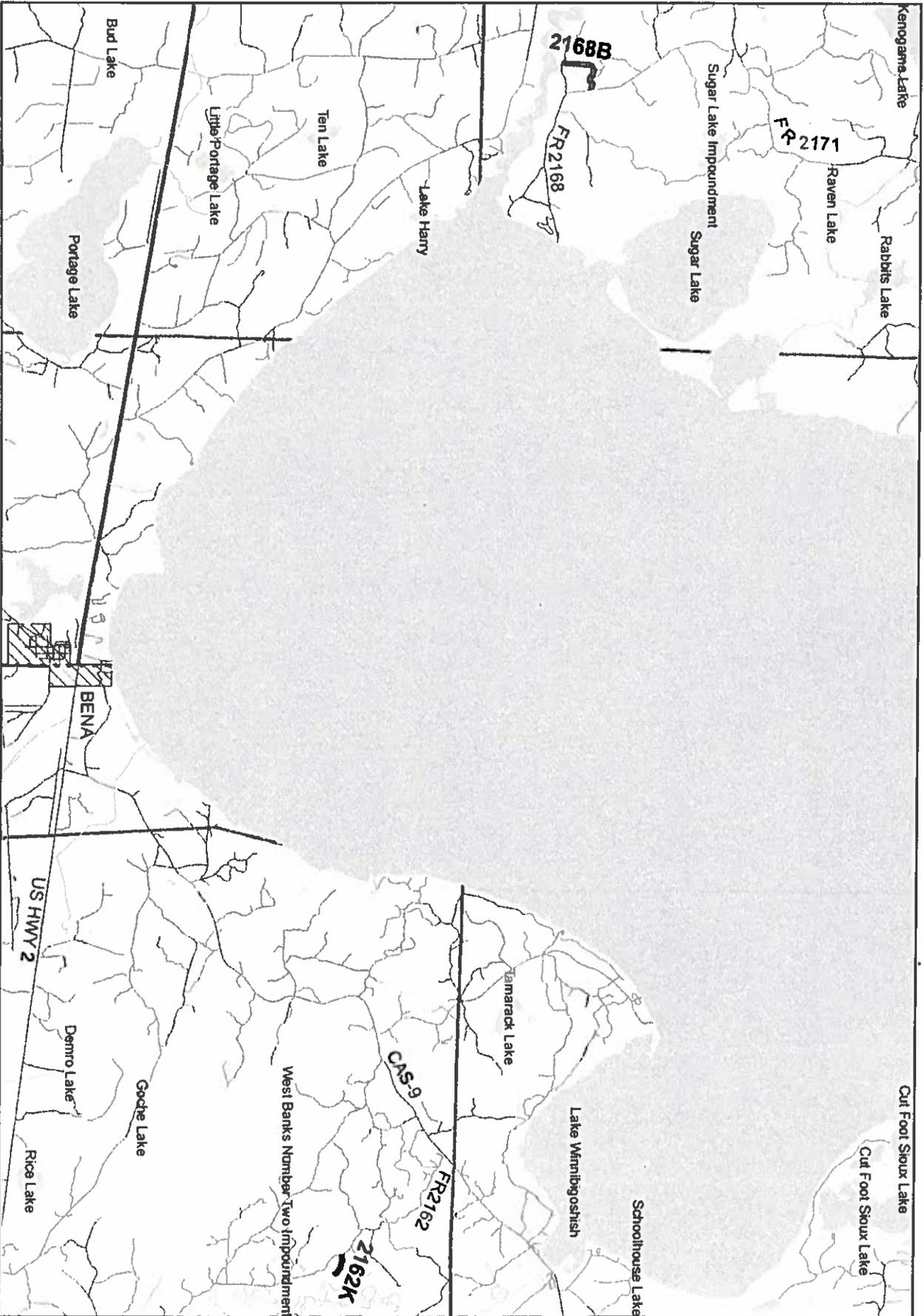


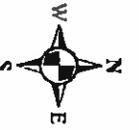
CHIPPEWA NATIONAL FOREST STEWARDSHIP ROAD CLOSURES 2016 - MAP C





CHIPPEWA NATIONAL FOREST STEWARDSHIP ROAD CLOSURES 2016 - MAP D





CHIPPEWA NATIONAL FOREST STEWARDSHIP ROAD CLOSURES 2016 - MAP E

