

**BOARD OF COUNTY COMMISSIONERS
COUNTY OF KITTITAS
STATE OF WASHINGTON**

RESOLUTION NO. 2009- 144

**To Create a Snow and Ice Maintenance Policy and to Replace Resolution 2001-155 for
Road Priority for Snow and Ice Maintenance**

WHEREAS: Kittitas County Public Works Department has created a Snow and Ice Maintenance Policy for the County; and

WHEREAS: The Kittitas County Commissioners have adopted Resolution No. 2001-155 which amended Resolution 99-121 that authorized the County to post certain county roads with "Limited Winter Maintenance-Proceed At Own Risk" and "No Winter Maintenance-Proceed At Own Risk" status and also provided maintenance route priorities for County maintained roads; and

WHEREAS: Resolution No. 2001-155 created priority levels for ice and snow control on County maintained roads. The roads are plowed by the following priority taking into account personnel, equipment, and weather conditions:

FIRST PRIORITY:	Major and minor arterials, school bus and mail routes – See the maintenance route maps attached and by this reference incorporated herein.
SECOND PRIORITY:	See maintenance route maps attached hereto and by this reference incorporated herein.
THIRD PRIORITY:	"Limited Winter Maintenance" – See the maintenance route maps attached hereto and by this reference incorporated herein.

- First Priority shall mean that these roads will have snow plowed first.
- Second Priority shall mean that these roads will be opened only after the first priority roads have been plowed. This will most likely be the next day when experiencing a major storm. In the event of extreme back-to-back storm conditions, it may be more than one day depending upon the status of the available work force and equipment.

- Third Priority shall mean that these roads will be opened only after the first and secondary roads have been plowed. This most likely will be the second to third day, except when experiencing a major storm event. In the event of extreme back-to-back storm conditions this may be more than three days depending upon the status of the available work force and equipment.

(Note: State law prohibits the CDL drivers to work more than 12 hours per shift. The Public Works Department has an inventory of equipment to accomplish snow maintenance work for the average snowfall in the County.)

WHEREAS: There are certain county roads that the cost benefit ratio is not justified to maintain said roads in the winter months. There are certain county roads that have been requested by the adjacent recreational property owners as “snowmobile routes.” It is recommended that the roads that are not necessary for public transportation and/or previously designated as a snowmobile route be posted as “No Winter Maintenance – Proceed at Own Risk”; and

WHEREAS: Resolution 2001-155 and Resolution 99-121 listed names of roads that are to be on the “Limited Winter Maintenance-Proceed at Own Risk” and “No Winter Maintenance-Proceed at Own Risk” status; and

NOW, THEREFORE BE IT RESOLVED That the Board of County Commissioners, in the best interest of the public, does hereby supersede Resolution 2001-155 with this Resolution for winter maintenance road priority listings and maps and also adds the following Snow and Ice Maintenance Policy:

KITTITAS COUNTY SNOW AND ICE REMOVAL POLICY

1.00 GENERAL

1.110 DESCRIPTION

Snow and ice maintenance work on the roadway is not classified as an emergency operation. However, it does take precedence over all other non-emergency work and warrants the use of overtime if needed to improve driving conditions to an acceptable level. Exceptions are made where light traffic and deep snow do not justify the hazard and the expense of attempting to keep these routes open throughout the winter.

The roadway is to be plowed and widened as soon as feasible and sanded as determined necessary by the assigned maintenance worker or supervisor. This work might involve extra hours at night, Saturdays, Sundays, or legal holidays. The work is to be accomplished as rapidly as practicable so that the roads are improved to the extent possible with the equipment, materials, and employees assigned to the work. Employees operating equipment shall not be worked longer than twelve (12) hours per shift.

The practical speed limit of snow plows shall be 35 miles per hour.

1.120 CLOSURES

The Director of Public Works or his authorized representative may temporarily close or place temporary traffic restrictions on any county road for any reason. When it becomes apparent that a road section will be closed by snow, ice, snow slides, or for any other reason, immediate action will be taken by maintenance personnel to safeguard the public. Steps must be taken to prevent stranding people in the closed section.

If an emergency closure is necessary, the Area Road Foreman and the Director of Public Works shall be notified as soon as possible. The Board of County Commissioners shall be kept informed of all closures and of all actions taken to re-open the roads.

Notice of the closure is to be given to all news media, the State Patrol, County Sheriff, the affected school district, Post Office, Fire Department, and other pertinent services and organizations by the Director of Public Works or his authorized representative.

Traffic control devices advising of the closure and possible detours must be erected to advise traffic and keep it from entering the isolated area.

1.130 PRIORITY OF WORK

The roadway classification and priority schedule is located in Exhibit A: The Winter Road Maintenance Priority Snow Routes.

In order to properly utilize equipment and personnel and to accomplish the efficient plowing of snow on regularly traveled routes, a system of priorities is needed. This system recognizes that large volume roads will require more snow and ice maintenance effort than low volume roads, and at the same time, recognize the effect of the rate or frequency of a storm. It is further recognized that although the Road Division may be extending a major effort to keep the roads usable during a storm, there are some storms that they will not be able to cope with; consequently, a road may be in an unsatisfactory condition for a period of time.

1.140 CONSTRUCTION PROJECTS

Snow plowing on construction projects should be performed only if the project is open to traffic.

1.141 OTHER GOVERNMENTAL AGENCIES

Snow plowing for other governmental agencies may be performed when authorized on a reimbursable basis. A separate, distinct work or job order number shall be obtained for each agency.

1.142 PRIVATE ROAD APPROACHES

Plowing of the snow on private road approaches both on and off the right-of-way is the responsibility of the property owner.

The Road Division does not assume any responsibility for the clearance of snow and/or ice or the opening of windrows of such material upon the portion of any road approach along any County Road even though snow and/or ice is deposited or windrowed on the road approaches by Road

Division employees engaged in winter maintenance operations. All employees engaged in or supervising snow and ice control operations should make every effort to be just, considerate and courteous in carrying out these policies.

Snow removal and deposits from private driveways and road systems shall not interfere with county snow removal operations.

1.150 PREPARATION

1.151 ADVANCE PLANNING

The road supervisors shall obtain weather reports and be prepared to plow snow or spread abrasives when the snow is of sufficient depth for the equipment to plow. The operation should continue until the road is passable by motorists using reasonable care for the conditions.

Early plans should be made for winter work so that snow plowing equipment, sanding supplies, radio equipment, equipment operators, sanding materials and supplies including signs, flags, barricades, small tools and equipment parts will be in readiness for the first frost or snow storms.

The Area Supervisors, annually, shall update or prepare maps to show priority routes for snow plowing and sanding and shall have copies available before winter begins. Road Department personnel shall study the maps so as to become thoroughly familiar with the priority routes shown thereon. All operators will be instructed as to the proper operation and maintenance of the equipment.

1.160 SNOW PLOWING OPERATIONS

1.161 MAIN ROADWAY

On high priority roads, snow plowing and sand application should have begun after an accumulation of 3 inches and still snowing. Plowing should continue until the road is improved until it is reasonably passable.

Advantage should be taken of the temperature rise which usually occurs between 11:00 a.m. and 3:00 p.m. to plow surfaces with a heavy coating of melted snow or slush. This period is important in many cases and as much equipment as feasible should be used.

1.162 INTERSECTIONS

Early and complete plowing at heavily traveled intersections is important and should be given high priority and must be coordinated with plowing on the main road.

Care must be exercised when plowing overpass structures and elevated roadways to prevent snow from being thrown over the road below or on private property.

1.163 SHOULDERS

Shoulders are plowed in conjunction with other plowing, after a storm, and before the ground thaws. Plowing shoulders provides storage space for additional snow, improves the operation of the road, prevents excessive runoff onto the pavement, reduces drifting, and prevents damage to

the road bed from moisture infiltration. Trucks with one-way plows and motor graders are normally used to plow shoulders, but if the shoulders are soft or if drifting has occurred, motor graders with sliding mold boards or wings should be used.

1.164 VEHICLES LEFT ON ROADWAY

Removal of unlawfully parked vehicles by department personnel is not allowed. The State Patrol or County Sheriff should be notified of any vehicles left standing or parked illegally along the roadway, as they are responsible for the enforcement of the statutes regarding vehicles left on the main traveled way.

1.165 PRECAUTIONS

Precautions should be taken to prevent damage to signs, mail box posts, sign posts, and other roadside appurtenances. Snow plow operators should reduce speed when in an area where adjacent buildings or facilities might be damaged from the flying snow.

1.166 MAILBOXES

Mail boxes may be installed on county road rights-of-way in accordance with the applicable standards of Kittitas County. Installation and maintenance of all mail boxes and their supports, together with the moving of same to accommodate road improvements, shall be at the expense of the box owner. Kittitas County will not be responsible for damage to mailboxes from flying snow. Any other damage claim will be evaluated on a case-by-case basis.

1.167 RAILROAD CROSSINGS

When plowing snow, no windrow of snow should be left on a railroad grade crossing. Operators shall raise or adjust the blade before reaching the crossing so that no damage shall be done to the crossing. They shall also check for approaching railway traffic before crossing.

1.168 ICE OR SNOW PACK

An effort to reduce ice or snow pack on the pavement should be made if the assigned maintenance worker believes that the ice or snow pack significantly interferes with the use of the road, considering the location and amount of traffic on the road. Severe rutting or deep potholes in the snow or ice pack are usually the conditions requiring efforts to improve roads covered with ice or snow pack.

Motor graders with serrated blades are generally effective for improving roads with ruts or potholes. If the maintenance worker believes that de-icing chemicals would be helpful to soften the snow or ice before scraping, the worker can request the use of these chemicals.

Any necessary work on ice and snow pack should continue during normal working schedules together with necessary widening or laying back of snow banks until the job is done.

1.200 SANDING AND DEICING

1.210 SANDING AND DEICING PREPARATION

Prior to the winter season, sand and chemicals should be stored or stockpiled so that an available supply is on hand when the winter season begins.

1.211 ABRASIVES

Crushed or screened materials for sanding purposes generally should at least meet the specifications for "Maintenance Rock" as specified in the Standard Specifications or more usually a ¼" minus material as specified by the Director of Public Works.

Depending upon local conditions, sanding abrasives may have salt added to them when placed in sand sheds or stockpiles to keep them from freezing. Additional salt may be added to the abrasives as sand is loaded into the sanders for use if the operator knows of conditions, such as severe rutting or potholes, that might be improved with additional salt. The rate of application of abrasives or abrasive mixtures will vary but the rate should only be that required to allow reasonable movement of traffic.

1.212 CHLORIDES

Chlorides used for ice control are expensive; for this reason their use should be held to a minimum. Abrasives are to be relied upon to take care of the bulk of the winter sanding.

Chlorides used for ice control are most effective when mixtures of chlorides are used. An abrasive-chemical mixture is generally ineffective on ice below 15F.

The most effective application rates will vary depending upon conditions and may require modification by maintenance personnel from time to time.

1.213 CALIBRATION OF EQUIPMENT

Each sander and salt spreader should be calibrated to make the spread required at a reasonable speed.

DATED this 3rd day of November, 2009 at Ellensburg, Washington

**BOARD OF COUNTY COMMISSIONERS
KITITAS COUNTY, WASHINGTON**

Attest:



Shirley Kjosvick
Shirley Kjosvick, Clerk of the Board

APPROVED AS TO FORM:

Stephanie Happold
Stephanie Happold, WSBA#38112
Deputy Prosecuting Attorney

Alan Crankovich
Alan Crankovich, Chair

Paul Jewell
Paul Jewell, Vice-Chair

Mark McClain
Mark McClain, Commissioner

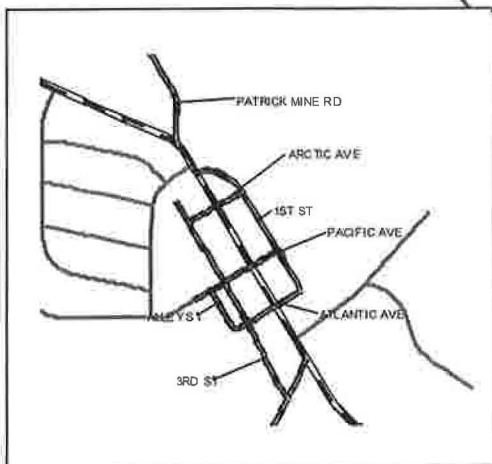
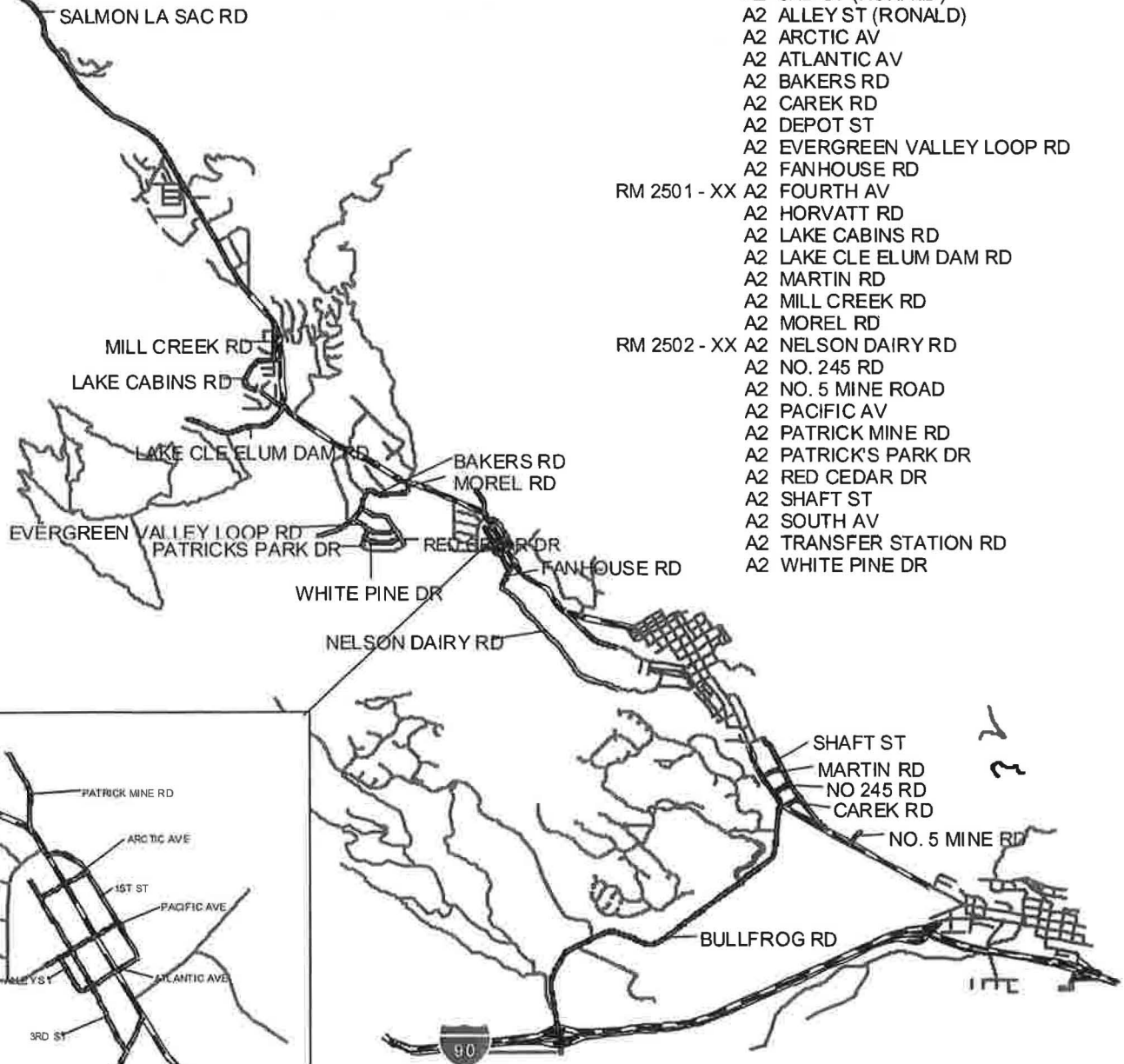
MAINTENANCE DISTRICT A

ARTERIALS

- A1 BULLFROG RD
- A1 SALMON LA SAC RD
- A1 SOUTH CLE ELUM RD

LOCAL ACCESS

- A2 1ST ST (RONALD)
- A2 1ST ST CONN
- A2 3RD ST (RONALD)
- A2 ALLEY ST (RONALD)
- A2 ARCTIC AV
- A2 ATLANTIC AV
- A2 BAKERS RD
- A2 CAREK RD
- A2 DEPOT ST
- A2 EVERGREEN VALLEY LOOP RD
- A2 FANHOUSE RD
- RM 2501 - XX A2 FOURTH AV
- A2 HORVATT RD
- A2 LAKE CABINS RD
- A2 LAKE CLE ELUM DAM RD
- A2 MARTIN RD
- A2 MILL CREEK RD
- A2 MOREL RD
- RM 2502 - XX A2 NELSON DAIRY RD
- A2 NO. 245 RD
- A2 NO. 5 MINE ROAD
- A2 PACIFIC AV
- A2 PATRICK MINE RD
- A2 PATRICK'S PARK DR
- A2 RED CEDAR DR
- A2 SHAFT ST
- A2 SOUTH AV
- A2 TRANSFER STATION RD
- A2 WHITE PINE DR



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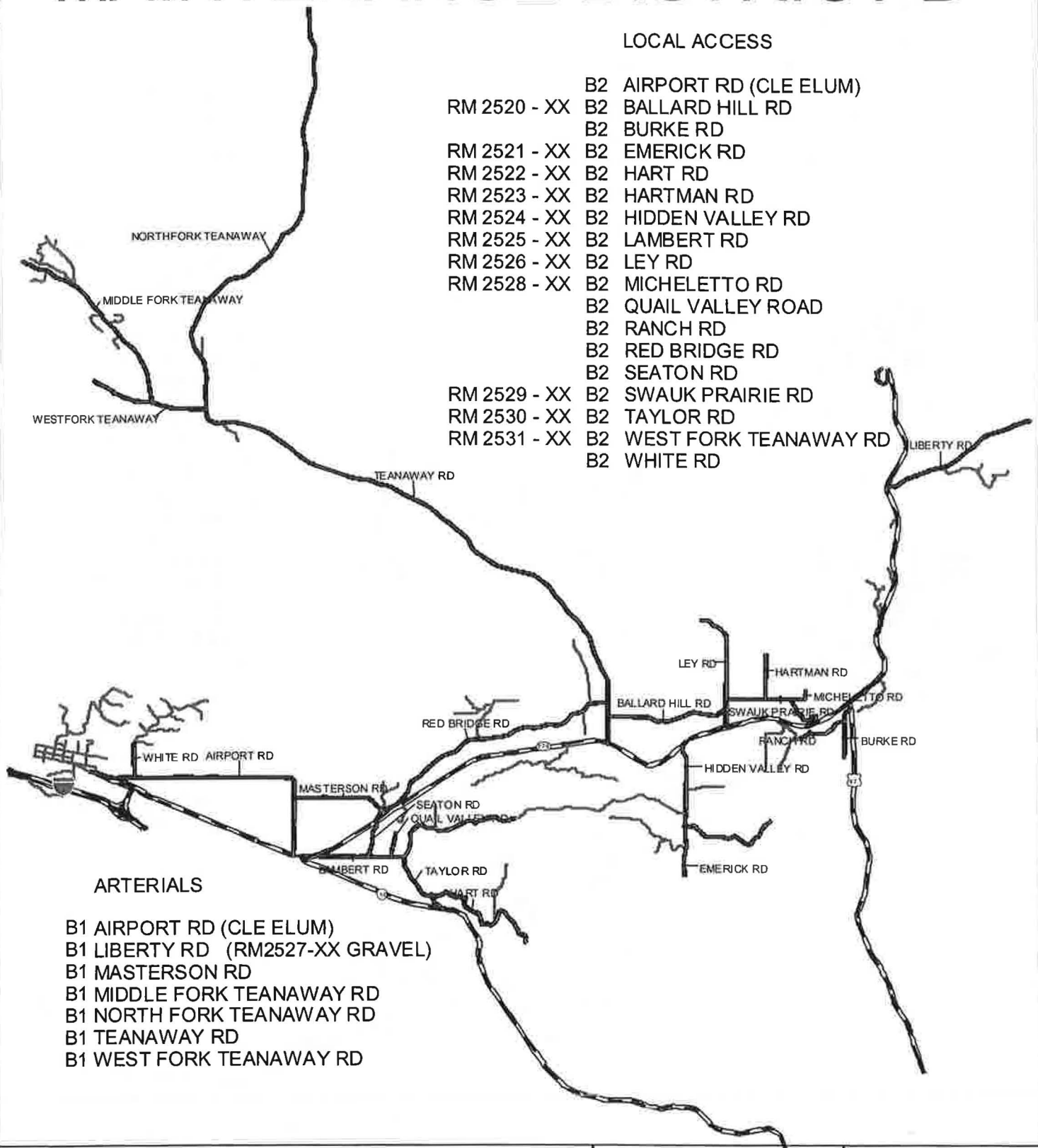
MAINTENANCE MAP
DISTRICT A

SHEET
1 OF 12

MAINTENANCE DISTRICT B

LOCAL ACCESS

RM 2520 - XX	B2	AIRPORT RD (CLE ELUM)
	B2	BALLARD HILL RD
	B2	BURKE RD
RM 2521 - XX	B2	EMERICK RD
RM 2522 - XX	B2	HART RD
RM 2523 - XX	B2	HARTMAN RD
RM 2524 - XX	B2	HIDDEN VALLEY RD
RM 2525 - XX	B2	LAMBERT RD
RM 2526 - XX	B2	LEY RD
RM 2528 - XX	B2	MICHELETTO RD
	B2	QUAIL VALLEY ROAD
	B2	RANCH RD
	B2	RED BRIDGE RD
	B2	SEATON RD
RM 2529 - XX	B2	SWAUK PRAIRIE RD
RM 2530 - XX	B2	TAYLOR RD
RM 2531 - XX	B2	WEST FORK TEANAWAY RD
	B2	WHITE RD



ARTERIALS

- B1 AIRPORT RD (CLE ELUM)
- B1 LIBERTY RD (RM2527-XX GRAVEL)
- B1 MASTERSON RD
- B1 MIDDLE FORK TEANAWAY RD
- B1 NORTH FORK TEANAWAY RD
- B1 TEANAWAY RD
- B1 WEST FORK TEANAWAY RD



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MAINTENANCE MAP
DISTRICT B

SHEET
2 OF 12

MAINTENANCE DISTRICT C

YELLOWSTONE RD

LOCAL ACCESS

ARTERIALS

C1 CABIN CREEK RD
C1 GOLF COURSE RD
C1 KACHESS LAKE RD
C1 NELSON SIDING RD
C1 WESTSIDE RD
C1 ZREBIEC RD

RM 2541 - XX

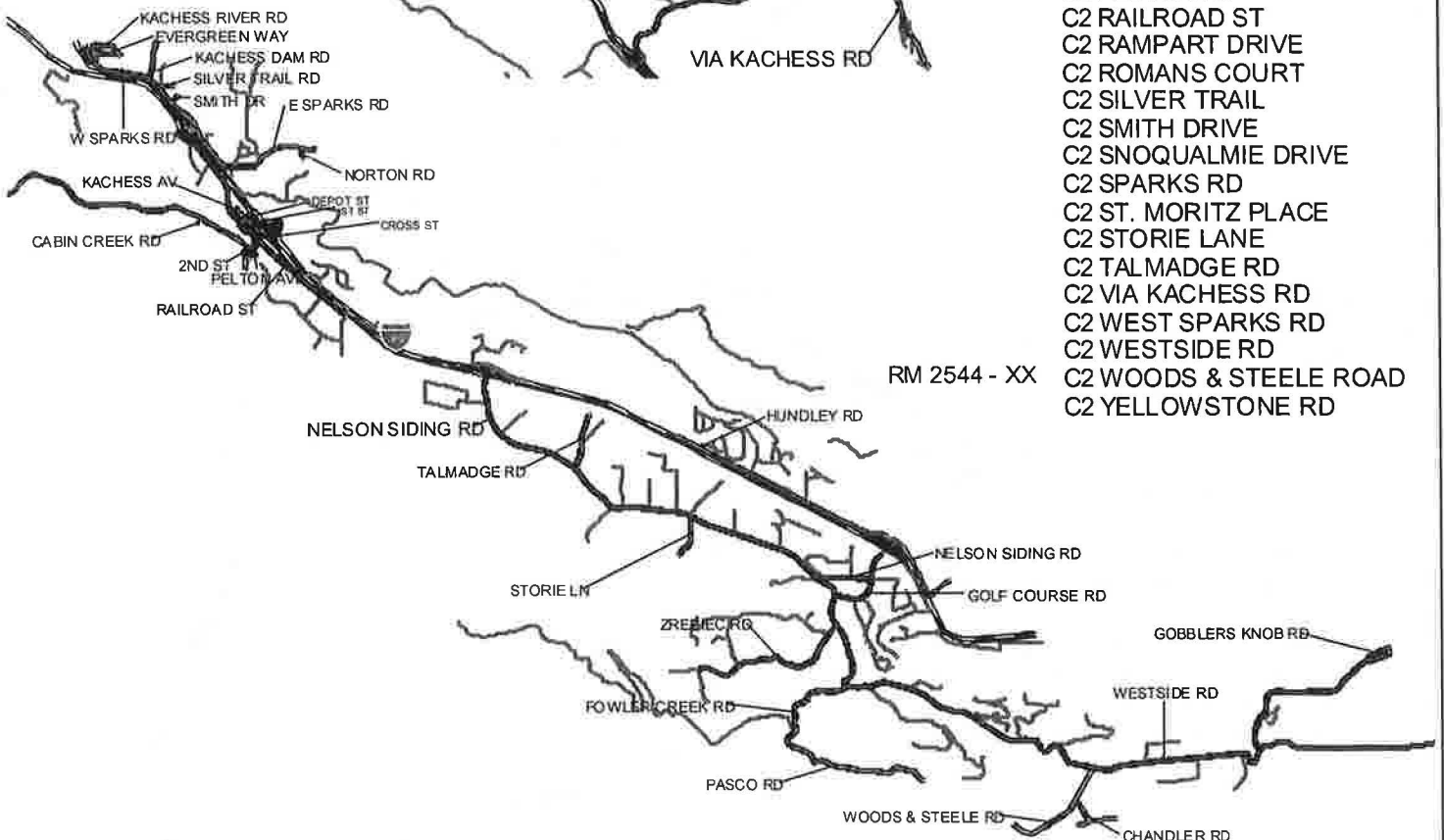
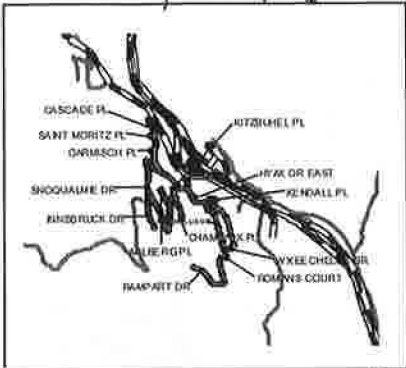
C2 1ST ST (EASTON)
C2 2ND ST (EASTON)
C2 ARLBERG PLACE
C2 CASCADE PLACE
C2 CHAMONIX PLACE
C2 CHANDLER ROAD
C2 CROSS ST
C2 EVERGREEN WAY
C2 FOWLER CREEK RD
C2 GARMISCH PLACE
C2 GOBBLERS KNOB RD
C2 HUNDLEY RD
C2 HYAK DRIVE EAST
C2 INNSBRUCK DRIVE
C2 KACHESS AV
C2 KACHESS DAM RD
C2 KACHESS RIVER RD
C2 KEECHELUS DRIVE
C2 KEECHELUS DRIVE WEST
C2 KENDALL PLACE
C2 KITZBUHEL PLACE
C2 NORTON RD
C2 PASCO RD
C2 PELTON AV
C2 RAILROAD ST
C2 RAMPART DRIVE
C2 ROMANS COURT
C2 SILVER TRAIL
C2 SMITH DRIVE
C2 SNOQUALMIE DRIVE
C2 SPARKS RD
C2 ST. MORITZ PLACE
C2 STORIE LANE
C2 TALMADGE RD
C2 VIA KACHESS RD
C2 WEST SPARKS RD
C2 WESTSIDE RD
C2 WOODS & STEELE ROAD
C2 YELLOWSTONE RD

KACHESS LAKE RD

RM 2542 - XX

VIA KACHESS RD

RM 2544 - XX



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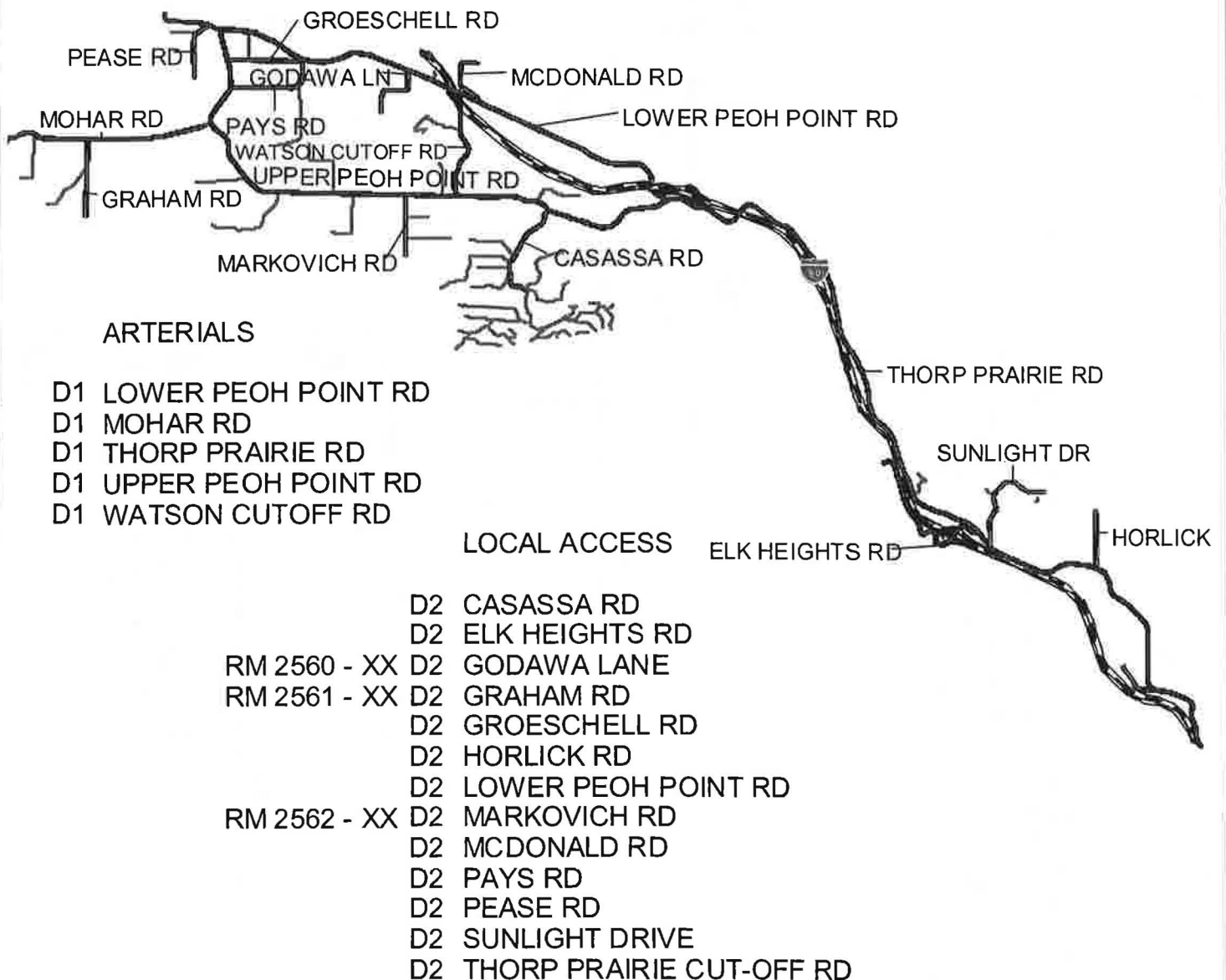
MAINTENANCE MAP

DISTRICT C

SHEET

3 OF 12

MAINTENANCE DISTRICT D



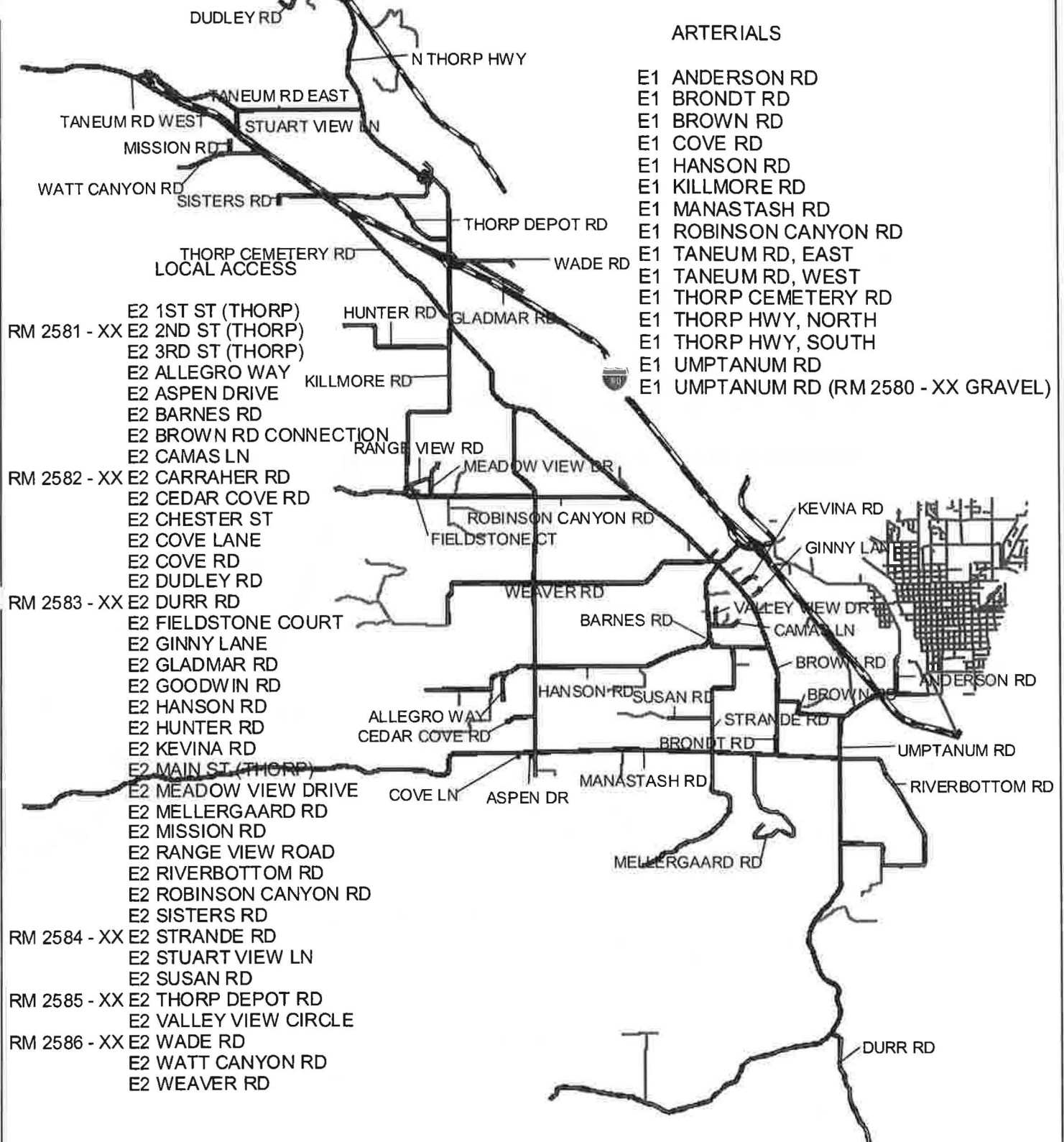
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MAINTENANCE MAP
DISTRICT D

SHEET
4 OF 12

MAINTENANCE DISTRICT E



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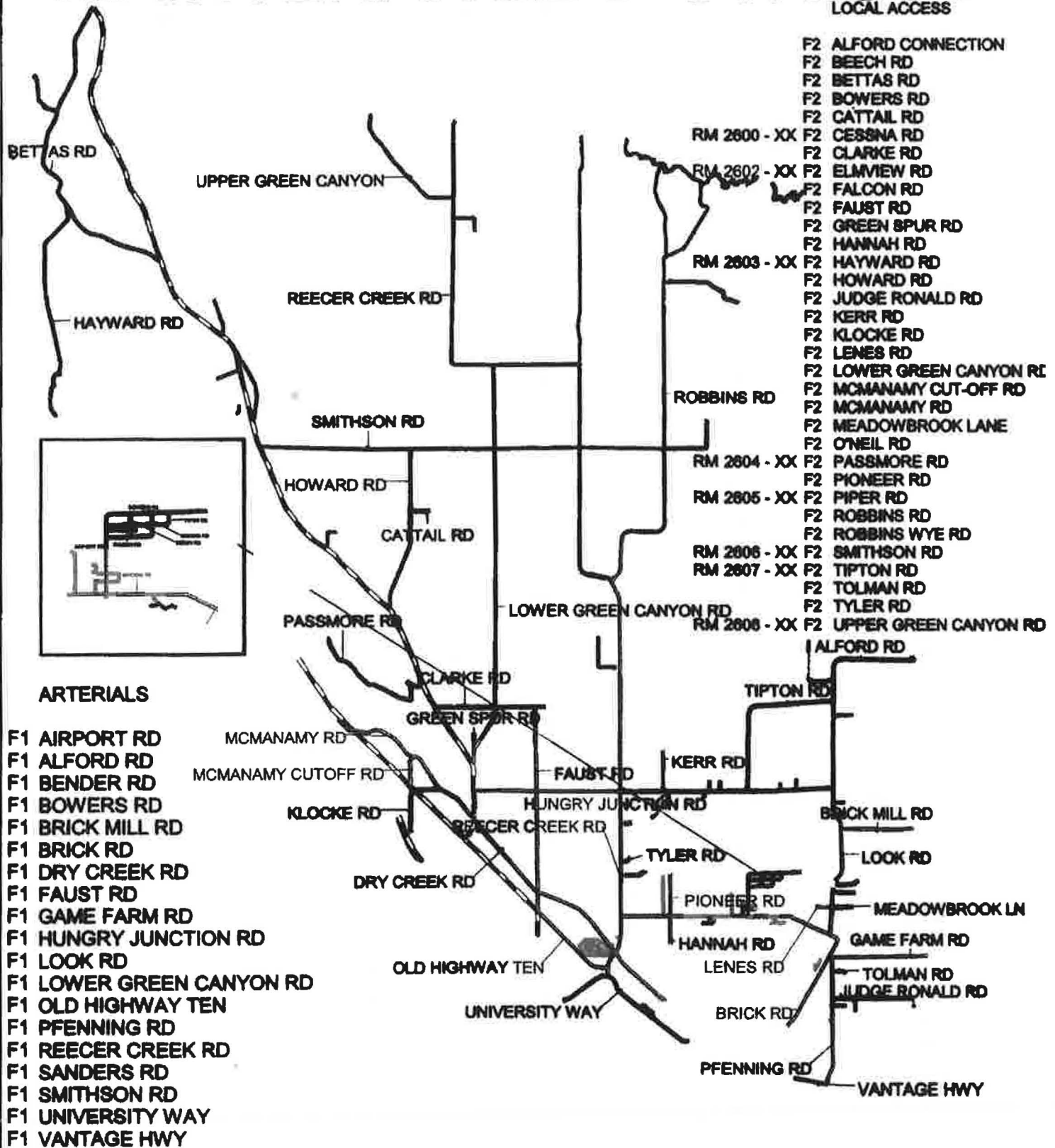
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MAINTENANCE MAP
DISTRICT E

SHEET
5 OF 12

MAINTENANCE DISTRICT F

LOCAL ACCESS



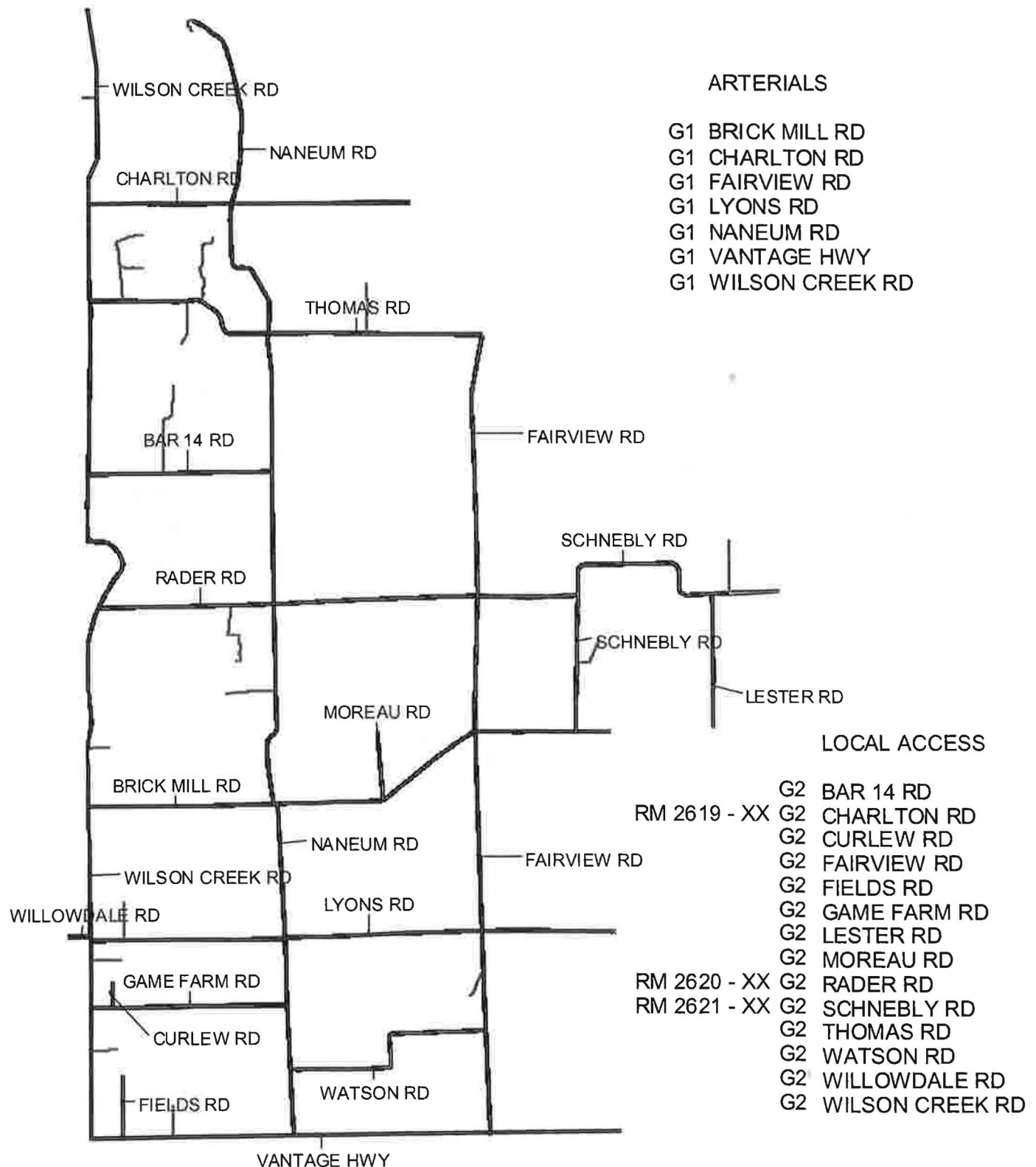
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MAINTENANCE MAP
DISTRICT F

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6 OF 12

MAINTENANCE DISTRICT G



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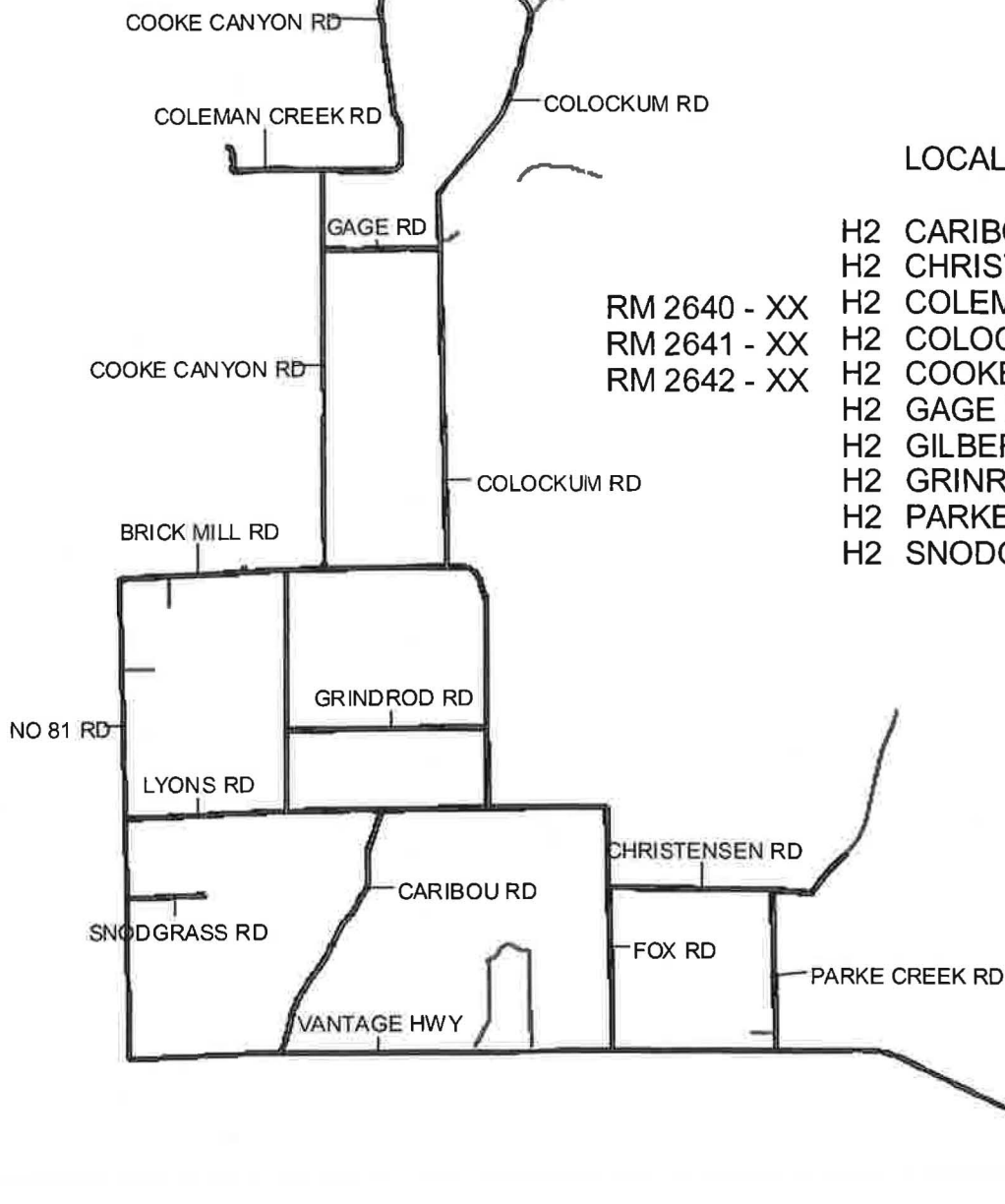
MAINTENANCE MAP
DISTRICT G

SHEET
7 OF 12

MAINTENANCE DISTRICT H

ARTERIALS

H1 BRICK MILL RD
H1 FOX RD
H1 LYONS RD
H1 NO. 81 RD
H1 VANTAGE HWY
H1 VENTURE RD



LOCAL ACCESS

H2 CARIBOU RD
H2 CHRISTENSEN RD
H2 COLEMAN CREEK RD
H2 COLOCKUM RD
H2 COOKE CANYON RD
H2 GAGE RD
H2 GILBERT RD
H2 GRINROD RD
H2 PARKE CREEK RD
H2 SNODGRASS RD

RM 2640 - XX
RM 2641 - XX
RM 2642 - XX



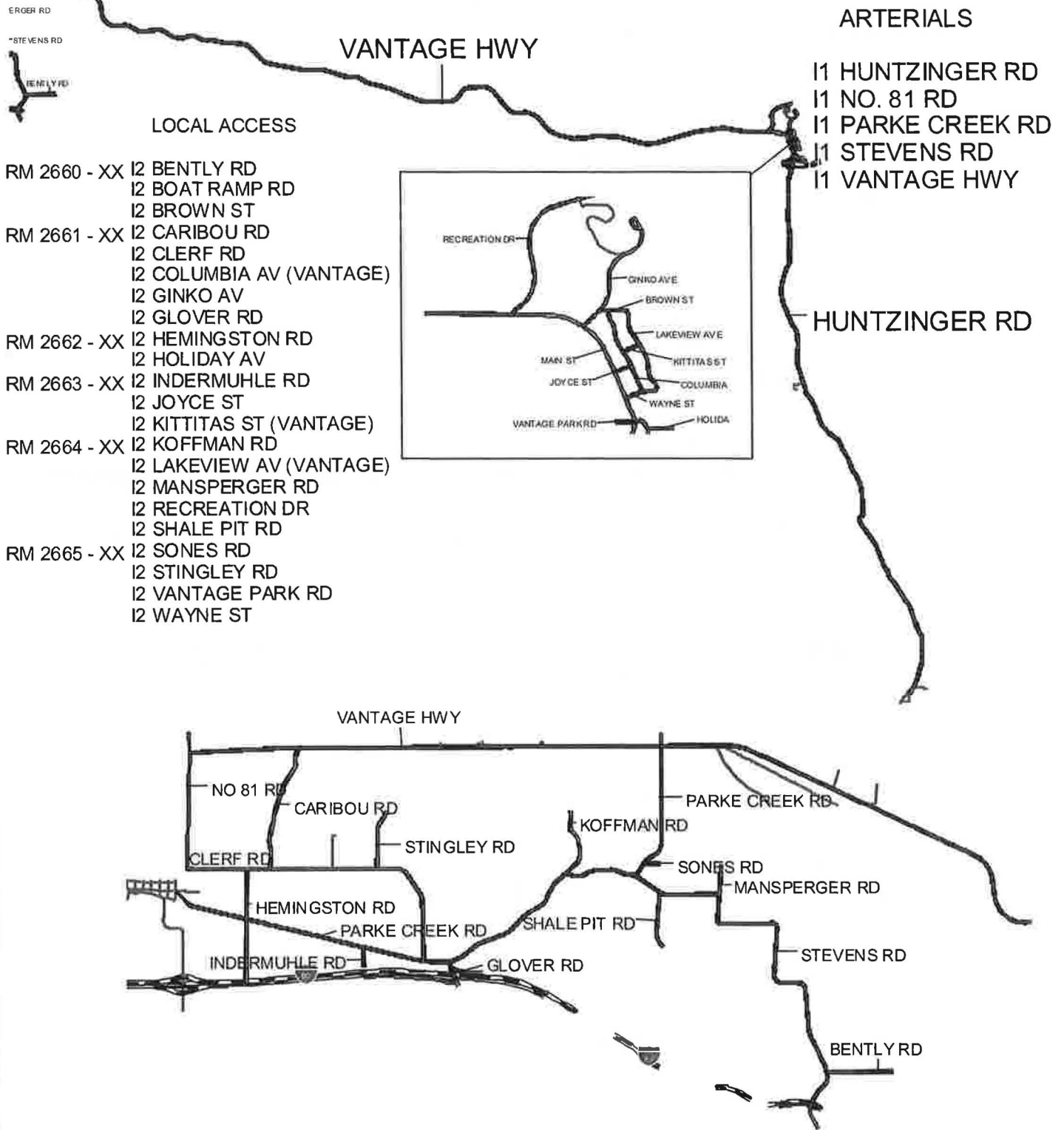
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MAINTENANCE MAP
DISTRICT H

SHEET
8 OF 12

MAINTENANCE DISTRICT I



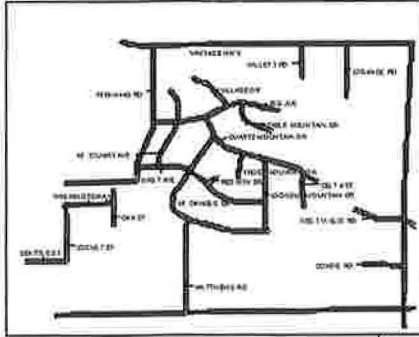
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MAINTENANCE MAP
DISTRICT I

SHEET
9 OF 12

MAINTENANCE DISTRICT J



ARTERIALS

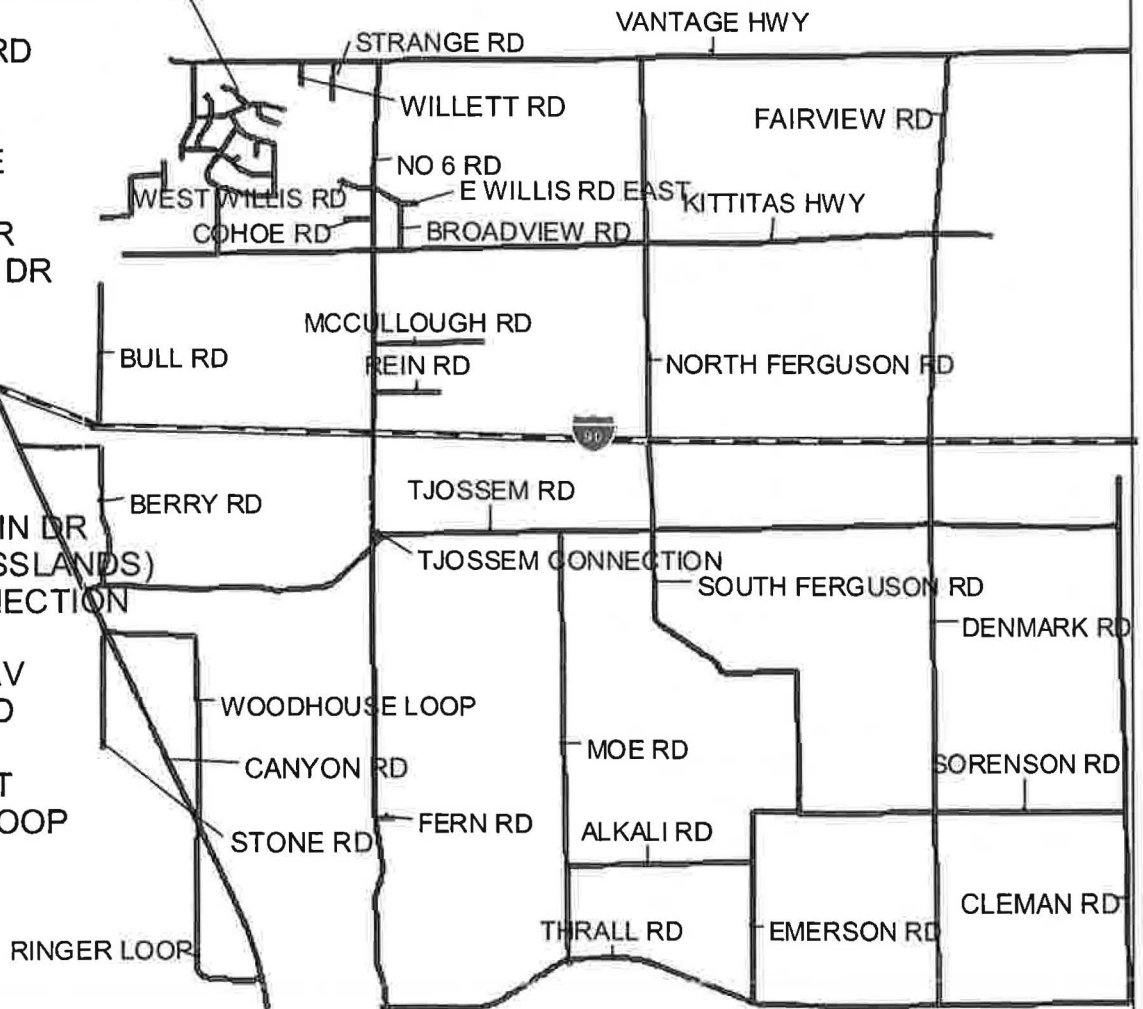
J1 BERRY RD
J1 BULL RD
J1 CANYON RD
J1 CLEMAN RD
J1 EMERSON RD
J1 FERGUSON RD, SOUTH
J1 KITTITAS HWY
J1 NO. 6 RD
J1 PFENNING RD
J1 THRALL RD
J1 TJOSSEM RD

LOCAL ACCESS

J2 ALKALI RD
J2 BERRY RD
J2 BROADVIEW RD
J2 COHOE RD
J2 DELTA ST
J2 DENMARK RD
J2 FAIRVIEW RD
J2 FERGUSON RD, NORTH
J2 FERGUSON RD, SOUTH
J2 FERN RD
J2 FIRST AV (GRASSLANDS)
J2 FROST MOUNTAIN DR
J2 LOCUST ST
J2 LOOKOUT MOUNTAIN DR

LOCAL ACCESS

J2 MANITOBA ST RM 2681 - XX
J2 MATTHEWS RD
J2 MCCULLOUGH RD
J2 MOE RD
J2 MT DANIELS DR
J2 MT STUART AVE
J2 OAK ST
J2 QUARTZ MTN DR
J2 RED MOUNTAIN DR
J2 REIN RD
J2 RINGER LOOP
J2 SEATTLE ST
J2 SORENSON RD
J2 STONE RD
J2 STRANGE RD
J2 TABLE MOUNTAIN DR
J2 THIRD AV (GRASSLANDS)
J2 TJOSSEM CONNECTION
J2 VILLAGE DRIVE
J2 WASHINGTON AV
J2 WEST WILLIS RD
J2 WILLETT RD
J2 WILLIS RD, EAST
J2 WOODHOUSE LOOP



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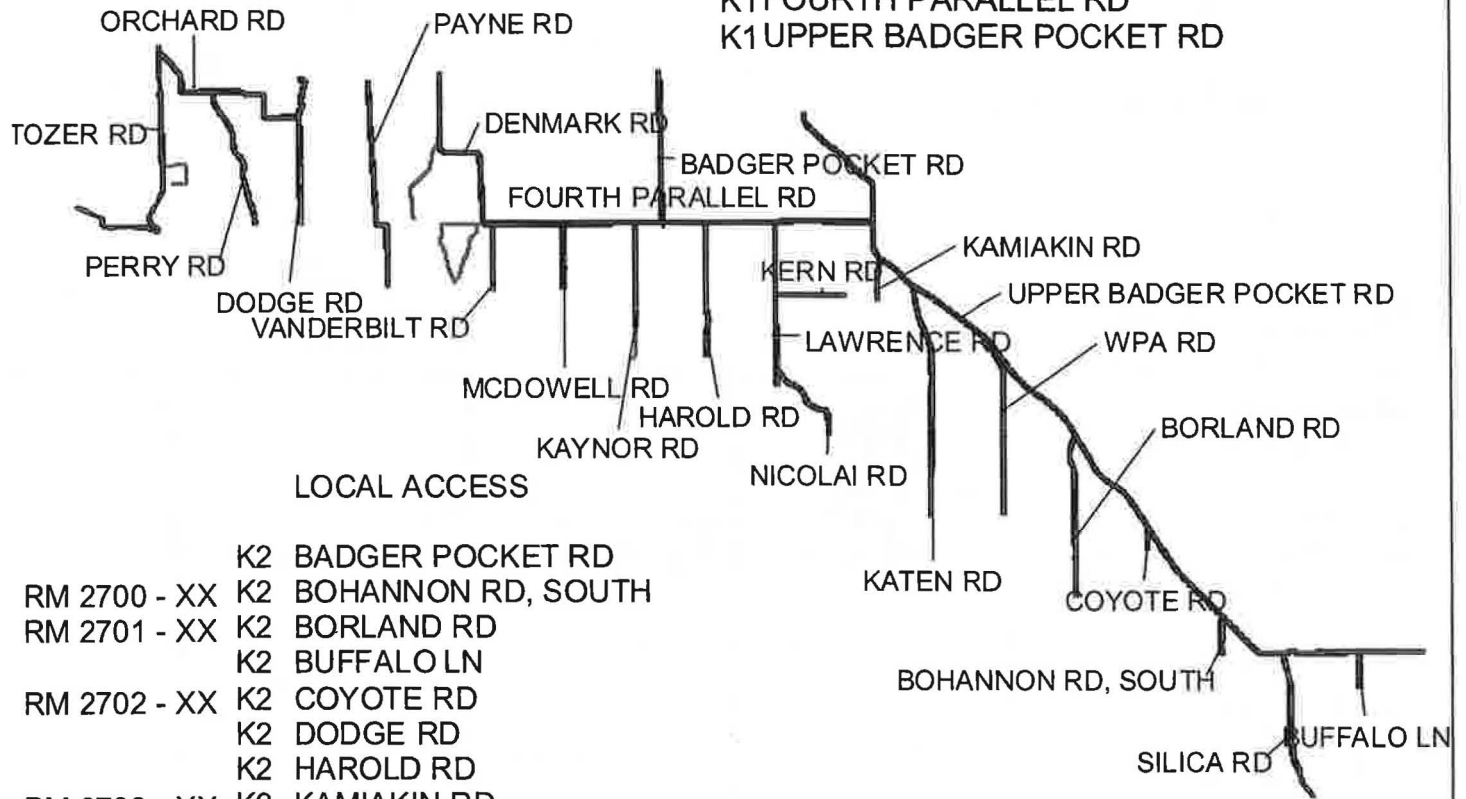
MAINTENANCE MAP
DISTRICT J

SHEET
10 OF 12

MAINTENANCE DISTRICT K

ARTERIALS

K1 DENMARK RD
K1 FOURTH PARALLEL RD
K1 UPPER BADGER POCKET RD



LOCAL ACCESS

	K2 BADGER POCKET RD
RM 2700 - XX	K2 BOHANNON RD, SOUTH
RM 2701 - XX	K2 BORLAND RD
	K2 BUFFALO LN
RM 2702 - XX	K2 COYOTE RD
	K2 DODGE RD
	K2 HAROLD RD
RM 2703 - XX	K2 KAMIAKIN RD
RM 2704 - XX	K2 KATEN RD
	K2 KAYNOR RD
RM 2705 - XX	K2 KERN RD
	K2 LAWRENCE RD
	K2 MCDOWELL RD
	K2 NICOLAI RD
	K2 ORCHARD RD
	K2 PAYNE RD
	K2 PERRY RD
RM 2706 - XX	K2 SILICA RD
	K2 TOZER RD
RM 2707 - XX	K2 UPPER BADGER POCKET RD
	K2 VANDERBILT RD
	K2 WPA RD



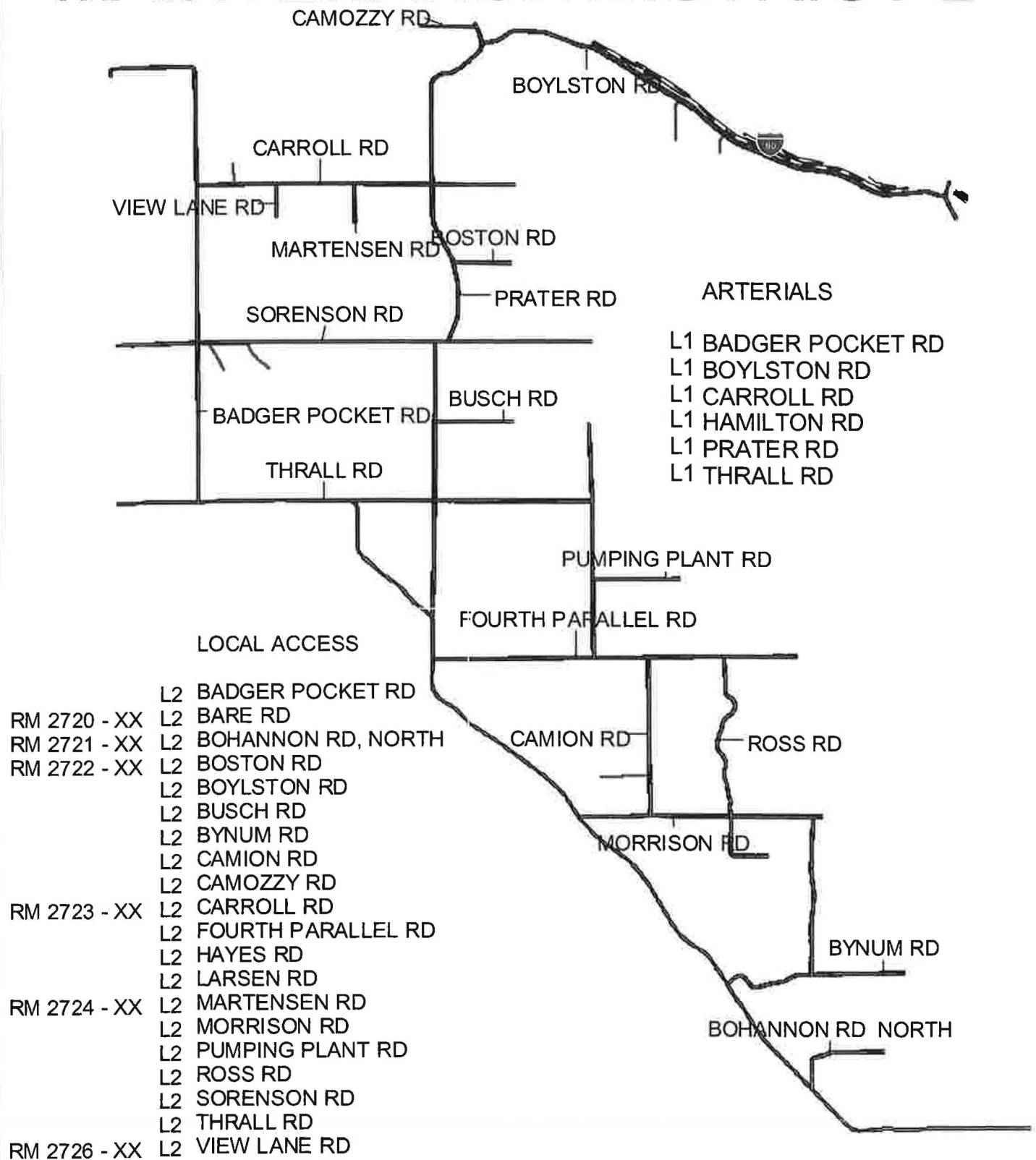
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MAINTENANCE MAP
DISTRICT K

SHEET
11 OF 12

MAINTENANCE DISTRICT L



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MAINTENANCE MAP
DISTRICT L

SHEET
12 OF 12

