

## Road Plan Committee Meeting Minutes September 30, 2014

The Road Plan Committee held a meeting on Tuesday, September 30<sup>th</sup>, 2014 at the Public Safety Building (Ross Room) at 7:05 pm.

**Members present:** Herb Maine, Doug Damon, David Campbell

**Members Absent:** Wayne Dyer, Tom Calder

**First Order of Business:** Herb Maine called meeting to order at 7:05

**Second Order of Business:** Minutes September 16<sup>th</sup> Meeting

*Motion: Move to accept by Doug Damon, Second by Dave Campbell Unanimous, Motion Carried*

**Third Order of Business:** Review the results of the 2014 Paved Road Survey

Herb presented computer generated cost options for the various road segments surveyed by Doug and Herb the previous weekends and explained the segment and report numbering system to the committee members. Copies of the computer run given to committee members for review.

**Fourth Order of Business:** Review past paving projects table.

Previous projects and the years they were performed were reviewed and used in setting the ten year plan priority.

**Fifth Order of Business:** Review Section 7. (page 9) of the Report of the Task Force (2010)

**Sixth Order of Business:** Develop methodologies to prioritize road sections and update the 10-year plan.

Preliminary priority list for 10 year plan started and will be drafted for next meeting by Herb.

**Seventh Order of Business:** Set date for the next meeting and discuss agenda

Motion: Move to set next meeting October 7:00 at 7:05 by Doug Damon, Second Dave Campbell Unanimous

**Ninth Order of Business:** Review Relevant parts of the Town Web site.

Herb introduced Doug and David to Town Website for our Committee. Herb to update E-mail list

**Tenth Order of Business: Other Business.....None**

**Eleventh Order of Business:** Adjourn Meeting

Move to adjourn meeting by Doug at 8:50, Second Dave, Unanimous

# ROAD PLAN

## 2014



CHEBEAGUE ISLAND  
MAINE

## 1. Introduction

The road plan is updated annually by the town of Chebeague Island Road Committee with the aid of the Road Surface Management System (RSMS). RSMS is software created by the Maine Local Roads Center (MLRC) of the Maine Department of Transportation (MDOT). The goal of the plan is to slowly bring the quality of our road network up to a point where the entire network can be put into a regular, cost effective maintenance program. The Road Plan presents the findings of the committee looking out 10 years and evaluating all of the approximately 10 miles of paved roads on the island.

## 2. Elements of a Road Plan

### a. Repair Strategies

The committee completed a road section condition survey by driving the entire road network and completing survey forms. The results were entered into the RSMS which categorizes each section of surveyed road and provides possible repair/maintenance options for each type. A cost for each maintenance option is based on the length, width and RSMS category. The Committee determined the option to recommend and applied an '*island factor*' of %30 to the RSMS cost.

### b. Road Status

RSMS places each road segment in one of the following categories:

1. Routine
2. Preventative
3. Rehabilitate
4. Reconstruct

One of the goals of the plan is to have all 10 miles of paving in the Routine or Preventative categories (the most cost-effective to maintain) . To accomplish this goal the plan has to improve the worst roads without letting better roads slip into Rehabilitate or Reconstruct.

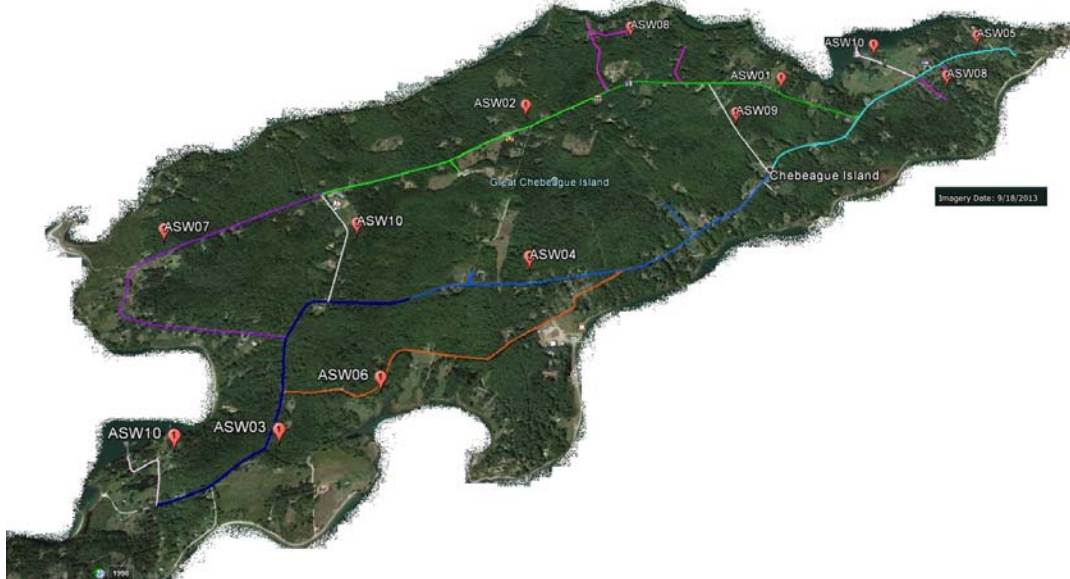
### c. Priorities

Each road section is also characterized in terms of the traffic load and the importance of the road section. The guiding principles used in setting priorities are:

5. Public Safety
6. Optimal return on dollar investment (timing and preparation)
7. Proximity to public services (importance and use)

#### d. Annual Surface Work Groups (ASW)

In order to develop a 10 year plan the committee divided the road network into 10 segments of approximately 1 mile each and labeled them ASW01 - ASW10. Each road segment name is then prefixed with the ASW number. For example ASW07 is made up of the Cottage Road and the end of North Road (they meet approximately at the Indian Point Road). They are given the names “ASW07 Cottage Road” and “ASW07 North Road 03”. The “03” indicates that it is third section of North Road subdivided because of its length.



#### e. Budget

An important purpose for the report is to give the Selectmen and Capital Plan Committee a target funding level for the next annual Town Meeting. All 10 years are estimated

To develop the maintenance program for the 2015-2016 fiscal year the road sections were prioritized based on long-term goals, current road status and immediate priorities.

A repair option is selected for the road sections that fall out at the top of the priority list. The committee’s philosophy was to select ‘middle-of-road’ cost options. An “Island Factor” is applied to the RSMS estimates which are mainland based.

Similar options are grouped together to provide sufficient mileage to minimize contractor mobilization costs. These are compared to the projected level of reserve funds in the capital budget and a 2-3 year schedule is created.

The Public Works department performs culvert replacement, ditching, patching and grading as part of its operating budget and they are not included in the 2010 road plan recommendations. Public Works will also be involved in preparing roads for the work recommended in this document.

### 3. Recommendations to the Board of Selectmen:

#### a. Chandlers Cove

#### b. Gravel Roads

Plan to perform a survey of the 3 miles of gravel roads and incorporate them into the a future Road Plan.

#### c. Financing

1. Plan to allocate \$###,### each year for the paving capital account (9050) to implement this plan.
2. Continue to raise funds in the operating budget to perform the pre-paving work of replacing culverts and the post-paving work of dressing the road shoulder of newly paved roadway.
3. Supplement revenue raised through taxes each year with a transfer from the undesignated fund balance to the extent it can be done under the current fund balance policy.

#### d. 2015-2016 Maintenance, Budget and Administrative Recommendations

1. Request Town Meeting transfer \$##,### from the undesignated fund balance to the paving capital account (9050),
2. Request Town Meeting to authorize the Selectmen to raise spend \$###,### in fiscal year 2015-2016 from the paving capital account (9050) (leaving any accrued interest and unspent balance in account 9050) and authorize the Board of Selectmen to enter into any required contracts to accomplish the work,
3. Direct the Town Administrator to solicit bids, secure contracts and make any other preparations to accomplish the work described in this plan,
4. Maintain the RSMS software and purchase upgrades as needed,
5. Publish the plan in advance of the budget process

### 4. RSMS Road Network Financial Plan

The table below is the result of this year's road survey and analysis. The costs are not modified for inflation. The intended use of the table is as a planning tool and the exact implementation may vary based on other financial or technical considerations.

10/6/2014  
11:48:16AM

# Paved Network Inventory

By Surface Status  
2014

<u>(Prio) Road/Section Name</u>	<u>Sec</u>	<u>From Road/Section</u>	<u>To Road/Section</u>	<u>Length</u>	<u>division</u>	<u>Import</u>	<u>Traffic</u>	<u>Drainage Status</u>
<b>No Survey</b>								
(4) ASW04 Roy Hill Road	1	South Road	Summa	0.03		low	medium	No Survey
(2) ASW04 Littlefield Road	1	South Road	Island Commons	0.06		low	low	No Survey
				<b>0.09</b>				
<b>No Maint</b>								
(10) ASW02 Transfer Station Road	1	North Road	Transfer Sta.	0.06		high	high	Good
(10) ASW05 South Road	4	Roy Hill Rd	Inn	1.15		high	high	Good
(10) ASW10 Stone Wharf Road	1	South Road	Stone Wharf	0.18		high	high	Good
(9) ASW01 North Road 01	1	South Road (East)	Public Safety Bld	0.87	PW	high	med-high	Good
(9) ASW02 North Road 02	2	Public Safety Bld	School House	0.99	PW	high	med-high	Good
(9) ASW09 School House Rd	1	North Road	South Road	0.42	PW	high	med-high	Good
(8) ASW03 South Road	1	Chandler's Cove Rd	.2 mi p school hse	1.00		high	medium	Good
(6) ASW01 Parking Public Safety Bldg	1	North Road	Public Safety Bld	0.08		high	low	Good
(2) ASW08 Bar Point Road	1	Division Point Rd	Cul du sac	0.16		low	low	Good
(2) ASW08 Capps Road	1	South Road	Past C. Doughty	0.13		low	low	Good
(2) ASW08 Soule Road	1	South Road	Johnson's	0.06		low	low	Poor
				<b>5.10</b>				
<b>Routine</b>								
(10) ASW10 Stone Wharf	1	Stone Wharf Road	Easterly Extent	0.13		high	high	Good
(7) ASW09 Parking Lot School		7000 square feet		0.02	PW	high	low-med	Good
(2) ASW09 Fenderson Road	1	South Road	J. Dought'y drive	0.19		low	low	Good
				<b>0.34</b>				
<b>Preventive</b>								
(8) ASW04 South Road	3	Littlefield Rd	Roy Hill Rd	0.63		med-high	med-high	Good
(8) ASW06 John Small 01	1	South Road (West)	Near Brother Ross'	0.41	PW	med-high	med-high	Good
(4) ASW07 North Road 03	3	School House	Cottage Road	0.57		low-med	low-med	Good
				<b>1.61</b>				

10/6/2014  
11:48:17AM

# Paved Network Inventory

By Surface Status  
2014

<u>(Prio) Road/Section Name</u>	<u>Sec</u>	<u>From Road/Section</u>	<u>To Road/Section</u>	<u>Length</u>	<u>division</u>	<u>Import</u>	<u>Traffic</u>	<u>Drainage Status</u>
<b>Rehabilitate</b>								
(8) ASW06 John Small 02	2	Near Brother Ross'	South Road	0.54	PW	med-high	med-high	Good
(7) ASW10 Caso Bay Landing	1	Chandler's Cove Rd	State Wharf	0.05		med-high	medium	Good
(7) ASW10 Chandler Cove Road	1	South Road	Caso Bay Lndg Rd.	0.18		med-high	medium	Good
(6) ASW04 South Road	2	South Road (1)	Littlefield Rd	0.20		medium	medium	Good
(5) ASW07 Cottage Road	1	North Road	South Road	0.60		medium	low-med	Good
(2) ASW08 Division Point Road	1	North	Division Point	0.36	PW	low	low	Good
(2) ASW08 Old Cart Road	1	North Road	Cul du sac	0.20		low	low	Good
				<b>2.13</b>				
<b>Reconstruct</b>								
(6) ASW09 Firehouse Road	1	North Road	South Road	0.37		medium	medium	Poor
(4) ASW05 South Road	5	Inn	East Shore Rd	0.35		medium	low	Good
				<b>0.72</b>				
				<b>9.99</b>				

# CHEABGUE ISLAND 2014 TEN-YEAR ROAD PLAN

2014

Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage	
ASW06	John Small 01	1	0.41	19.00	med-high	med-high	Preventive-8	Good-8	
	Sand seal (S)						\$6,232	<input type="checkbox"/>	\$0
	Chip seal (latex modified) (S)						\$9,738	<input type="checkbox"/>	\$0
	Thin (3/4 - 1") overlay (S)						\$15,580	<input type="checkbox"/>	\$0
	Shim with 1" overlay (S)						\$25,318	<input checked="" type="checkbox"/>	\$25,318
	Thick (> 1") overlay (S)						\$28,044	<input type="checkbox"/>	\$0
	Overlay w/ 2" cold mix, top w/ 1" HMA (S)						\$45,572	<input type="checkbox"/>	\$0
	Mill and Fill 1.25" (S)						\$48,688	<input type="checkbox"/>	\$0
ASW06	John Small 02	2	0.54	19.00	med-high	med-high	Rehabilitate-8	Good-8	
	Reclaim pavement, revert to gravel (S)						\$10,260	<input type="checkbox"/>	\$0
	Shim w/ 2" overlay (S)						\$66,690	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, 2" binder, 1.5" surface (S)						\$102,600	<input checked="" type="checkbox"/>	\$102,600
	PM RAP reclamation (S)						\$125,685	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, stabilized, 2" binder, 1.5" surface (S)						\$125,685	<input type="checkbox"/>	\$0

Planned Work for 2014

ASW06: RSMS Option Estimate	\$127,918	30% Island Factor	\$38,375	Plan Estimate	\$166,293
-----------------------------	-----------	-------------------	----------	---------------	-----------

Length of Road: 0.95 Estimated cost per mile: \$175,045



Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage	
ASW08	Bar Point Road		1	0.16	20.00	low	low	No Maint-2	Good-2
								<input type="checkbox"/>	\$0
ASW08	Capps Road		1	0.13	17.50	low	low	No Maint-2	Good-2
								<input type="checkbox"/>	\$0
ASW08	Division Point Road		1	0.36	20.00	low	low	Rehabilitate-2	Good-2
	Reclaim pavement, revert to gravel (S)						\$7,200	<input type="checkbox"/>	\$0
	Shim w/ 2" overlay (S)						\$46,800	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, 2" binder, 1.5" surface (S)						\$72,000	<input checked="" type="checkbox"/>	\$72,000
	Reclaim incl 6-8" base, stabilized, 2" binder, 1.5" surface (S)						\$88,200	<input type="checkbox"/>	\$0
	PM RAP reclamation (S)						\$88,200	<input type="checkbox"/>	\$0
ASW08	Old Cart Road		1	0.2	21.00	low	low	Rehabilitate-2	Good-2
	Reclaim pavement, revert to gravel (S)						\$4,200	<input type="checkbox"/>	\$0
	Shim w/ 2" overlay (S)						\$27,300	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, 2" binder, 1.5" surface (S)						\$42,000	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, stabilized, 2" binder, 1.5" surface (S)						\$51,450	<input checked="" type="checkbox"/>	\$51,450
	PM RAP reclamation (S)						\$51,450	<input type="checkbox"/>	\$0
ASW08	Soule Road		1	0.06	14.00	low	low	No Maint-2	Poor-2
	Replace/New culverts (S)						\$0	<input type="checkbox"/>	\$0
	Grade shoulders (S)						\$60	<input checked="" type="checkbox"/>	\$60
	Ditching (S)						\$300	<input type="checkbox"/>	\$0

Planned Work for 2015

ASW08: RSMS Option Estimate    \$123,510    30% Island Factor    \$37,053    Plan Estimate    \$160,563

Length of Road:    0.91    Estimated cost per mile:    \$176,443

Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage
ASW04	Littlefield Road		1	0.06	19.00	low	low	No Survey-2
								No Survey-2
							<input type="checkbox"/>	\$0
ASW04	Roy Hill Road		1	0.03	17.00	low	medium	No Survey-4
								No Survey-4
							<input type="checkbox"/>	\$0
ASW04	South Road		2	0.2	20.00	medium	medium	Rehabilitate-6
								Good-6
								Reclaim pavement, revert to gravel (S)
							\$4,000	<input type="checkbox"/>
								\$0
							\$26,000	<input type="checkbox"/>
								\$0
							\$40,000	<input type="checkbox"/>
								\$0
							\$49,000	<input type="checkbox"/>
								\$0
							\$49,000	<input checked="" type="checkbox"/>
								\$49,000
ASW04	South Road		3	0.63	20.00	med-high	med-high	Preventive-8
								Good-8
								Sand seal (S)
							\$10,080	<input type="checkbox"/>
								\$0
							\$15,750	<input type="checkbox"/>
								\$0
							\$25,200	<input type="checkbox"/>
								\$0
							\$40,950	<input checked="" type="checkbox"/>
								\$40,950
							\$45,360	<input type="checkbox"/>
								\$0
							\$73,710	<input type="checkbox"/>
								\$0
							\$78,750	<input type="checkbox"/>
								\$0

Planned Work for 2016

ASW04: RSMS Option Estimate      \$89,950      30% Island Factor      \$26,985      Plan Estimate      \$116,935

Length of Road:      0.92

Estimated cost per mile:      \$127,103

Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage	
ASW07	Cottage Road		1	0.6	18.00	medium	low-med	Rehabilitate-5	Good-5
	Reclaim pavement, revert to gravel (S)						\$10,800	<input type="checkbox"/>	\$0
	Shim w/ 2" overlay (S)						\$70,200	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, 2" binder, 1.5" surface (S)						\$108,000	<input checked="" type="checkbox"/>	\$108,000
	PM RAP reclamation (S)						\$132,300	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, stabilized, 2" binder, 1.5" surface (S)						\$132,300	<input type="checkbox"/>	\$0
ASW07	North Road 03		3	0.57	21.00	low-med	low-med	Preventive-4	Good-4
	Sand seal (S)						\$9,576	<input type="checkbox"/>	\$0
	Chip seal (latex modified) (S)						\$14,963	<input type="checkbox"/>	\$0
	Thin (3/4 - 1") overlay (S)						\$23,940	<input type="checkbox"/>	\$0
	Shim with 1" overlay (S)						\$38,903	<input checked="" type="checkbox"/>	\$38,903
	Thick (> 1") overlay (S)						\$43,092	<input type="checkbox"/>	\$0
	Overlay w/ 2" cold mix, top w/ 1" HMA (S)						\$70,025	<input type="checkbox"/>	\$0
	Mill and Fill 1.25" (S)						\$74,813	<input type="checkbox"/>	\$0

Planned Work for 2017

ASW07: RSMS Option Estimate	\$146,903	30% Island Factor	\$44,071	Plan Estimate	\$190,973
-----------------------------	-----------	-------------------	----------	---------------	-----------

Length of Road:  Estimated cost per mile:

Year	Road Section	N Length	Width	Import	Traffic	Surface	Drainage	
ASW05	South Road	4	1.15	20.00	high	high	No Maint-10	Good-10
							<input type="checkbox"/>	\$0
ASW05	South Road	5	0.35	20.00	medium	low	Reconstruct-4	Good-4
	Reclaim pavement, revert to gravel (S)					\$7,000	<input type="checkbox"/>	\$0
	18" new 9.5mm gravel, 2" binder, 1" surface (S)					\$78,750	<input checked="" type="checkbox"/>	\$78,750
	24" new gravel, 2" binder, 2" surface (S)					\$105,000	<input type="checkbox"/>	\$0

Planned Work for 2018

ASW05: RSMS Option Estimate	\$78,750	30% Island Factor	\$23,625	Plan Estimate	\$102,375
-----------------------------	----------	-------------------	----------	---------------	-----------

Length of Road:  Estimated cost per mile:

Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage	
ASW09	Fenderson Road		1	0.19	14.00	low	low	Routine-2	Good-2
	Patching (S)						\$133	<input type="checkbox"/>	\$0
	Crack seal (S)						\$1,330	<input type="checkbox"/>	\$0
ASW09	Firehouse Road		1	0.37	19.00	medium	medium	Reconstruct-6	Poor-6
	Replace/New culverts (S)						\$0	<input type="checkbox"/>	\$0
	Grade shoulders (S)						\$370	<input type="checkbox"/>	\$0
	Ditching (S)						\$1,850	<input type="checkbox"/>	\$0
	Reclaim pavement, revert to gravel (S)						\$7,030	<input type="checkbox"/>	\$0
	18" new 9.5mm gravel, 2" binder, 1" surface (S)						\$79,088	<input type="checkbox"/>	\$0
	24" new gravel, 2" binder, 2" surface (S)						\$105,450	<input checked="" type="checkbox"/>	\$105,450
ASW09	Parking Lot School			0.019	70.00	high	low-med	Routine-7	Good-7
								<input type="checkbox"/>	\$0
ASW09	School House Rd		1	0.42	20.00	high	med-high	No Maint-9	Good-9
								<input type="checkbox"/>	\$0

Planned Work for 2019

ASW09: RSMS Option Estimate    \$105,450    30% Island Factor    \$31,635    Plan Estimate    \$137,085

Length of Road:    1.00

Estimated cost per mile:    \$137,222

Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage	
ASW10	Caso Bay Landing	1	0.05	19.00	med-high	medium	Rehabilitate-7	Good-7	
	Reclaim pavement, revert to gravel (S)						\$950	<input type="checkbox"/>	\$0
	Shim w/ 2" overlay (S)						\$6,175	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, 2" binder, 1.5" surface (S)						\$9,500	<input checked="" type="checkbox"/>	\$9,500
	PM RAP reclamation (S)						\$11,638	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, stabilized, 2" binder, 1.5" surface (S)						\$11,638	<input type="checkbox"/>	\$0
ASW10	Chandler Cove Road	1	0.18	19.00	med-high	medium	Rehabilitate-7	Good-7	
	Reclaim pavement, revert to gravel (S)						\$3,420	<input type="checkbox"/>	\$0
	Shim w/ 2" overlay (S)						\$22,230	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, 2" binder, 1.5" surface (S)						\$34,200	<input checked="" type="checkbox"/>	\$34,200
	PM RAP reclamation (S)						\$41,895	<input type="checkbox"/>	\$0
	Reclaim incl 6-8" base, stabilized, 2" binder, 1.5" surface (S)						\$41,895	<input type="checkbox"/>	\$0
ASW10	Stone Wharf Road	1	0.18	22.00	high	high	No Maint-10	Good-10	
								<input type="checkbox"/>	\$0
ASW10	Stone Wharf	1	0.131	30.00	high	high	Routine-10	Good-10	
	Patching (S)						\$197	<input type="checkbox"/>	\$0
	Crack seal (S)						\$1,965	<input checked="" type="checkbox"/>	\$1,965

Planned Work for 2020

ASW10: RSMS Option Estimate	\$45,665	30% Island Factor	\$13,700	Plan Estimate	\$59,365
Length of Road:	0.54	Estimated cost per mile:	\$109,731		

Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage
ASW01	North Road 01	1	0.87	21.00	high	med-high	No Maint-9	Good-9
							<input type="checkbox"/>	\$0
ASW01	Parking Public Safety Bldg	1	0.082	30.00	high	low	No Maint-6	Good-6
							<input type="checkbox"/>	\$0

Planned Work for 2021

ASW01: RSMS Option Estimate  30% Island Factor  Plan Estimate

Length of Road:  Estimated cost per mile:

Year	Road Section	N	Length	Width	Import	Traffic	Surface	Drainage
ASW02	North Road 02	2	0.99	21.00	high	med-high	No Maint-9	Good-9
							<input type="checkbox"/>	\$0
ASW02	Transfer Station Road	1	0.06	19.00	high	high	No Maint-10	Good-10
							<input type="checkbox"/>	\$0

Planned Work for 2022

ASW02: RSMS Option Estimate  30% Island Factor  Plan Estimate

Length of Road:  Estimated cost per mile:



Year	Road Section N	Length	Width	Import	Traffic	Surface	Drainage	
ASW03	South Road	1	1	20.00	high	medium	No Maint-8	Good-8
							<input type="checkbox"/>	\$0

Planned Work for 2023

ASW03: RSMS Option Estimate \$0 30% Island Factor \$0 Plan Estimate \$0

Length of Road: 1.00 Estimated cost per mile: \$0

Year                                      Road Section N Length                      Width                      Import                      Traffic                      Surface                      Drainage

Estimated cost to do the entire plan =	\$933,589
--	-----------