

2017

Status Report & Update Road Improvement Projects: Paving the Way

Waterville (Me.). Department of Public Works

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City of Waterville
Department of Public Works

STATUS REPORT & UPDATE
ROAD IMPROVEMENT PROJECTS

~ Paving The Way ~



**Country
Way**



**Gilman
Street**



**Hazelwood
Avenue**

-Waterville's Road Inventory-

- ▶ **272 Local Roads – 50.24 Miles**
- ▶ **25 State Aid Roads – 20.09 Miles**
- ▶ **10 State Highway Roads – 11.26 Miles**
- ▶ **307 Total Roads – 81.59 Miles**

In addition to roads, the city also has:

- ▶ **School & Municipal Parking Lots**
- ▶ **Sidewalks**
- ▶ **The Concourse & Head of Falls Plaza**
- ▶ **Quarry Road Recreation Complex**

Why a Five Year Plan is Important:

A Five Year Road Improvement Plan Provides the Following:

- 1) A Comprehensive Assessment of the Condition of all City/State Roads**
- 2) Prioritization & Categorization of Proposed Work**
- 3) Recommended Schedule for Performing Upgrades**
- 4) Planning & Budgeting for Capital Improvements**

-Factors Affecting Repairs-

Many factors affect which roads are scheduled for maintenance and when.

Typical Factors Are:

- **Physical Location – Is it for some reason(s) in a critical location that could create strategic development opportunities?**
- **Priority Rating in the RSMS Report – How important is it compared to other roads?**
- **Maintenance Category – What sort of road conditions determine the type of work to be performed?**
- **Maine Department of Transportation – Is it an MPI (Municipal Partnership Initiative) or other State funded program?**
- **Cost and Annual Budget Appropriation – How much is needed and available?**

5 YEAR SUMMARY COMPLETED ROAD PROJECTS

2013

Drummond Ave (Phase 1)
Ticonic Street

Mayflower Hill Drive**
West Concourse

2014

Cleveland Place
Coolidge Street
Drummond Ave (Phase 2)**
Greenwood Street
Highwood Street
Wolfe Street

Jefferson Street
Lupine Drive
Meadow View Drive
N. Second Rangeway
Patricia Terrace



2015

Cherry Hill Drive
Cherry Hill Terrace
Cool Street**
Crestwood Drive
Eaton Drive
Evergreen Drive

Gilbert Street
Morgan Street
Rideout Street
Sawyer Street
Sterling Street
Westview Avenue

2016

Airport Road **
Ashley Terrace
Aubrey Street
Dunbar Court
Forest Park
Harris Street
Louise Avenue
Martin Avenue

Mt. Merici Avenue
Nelson Street
Oakland Street
Quarry Road
Ursula Street
Union Street **
Wentworth Court
Upper Western Avenue/
5 Way Intersection **

2017

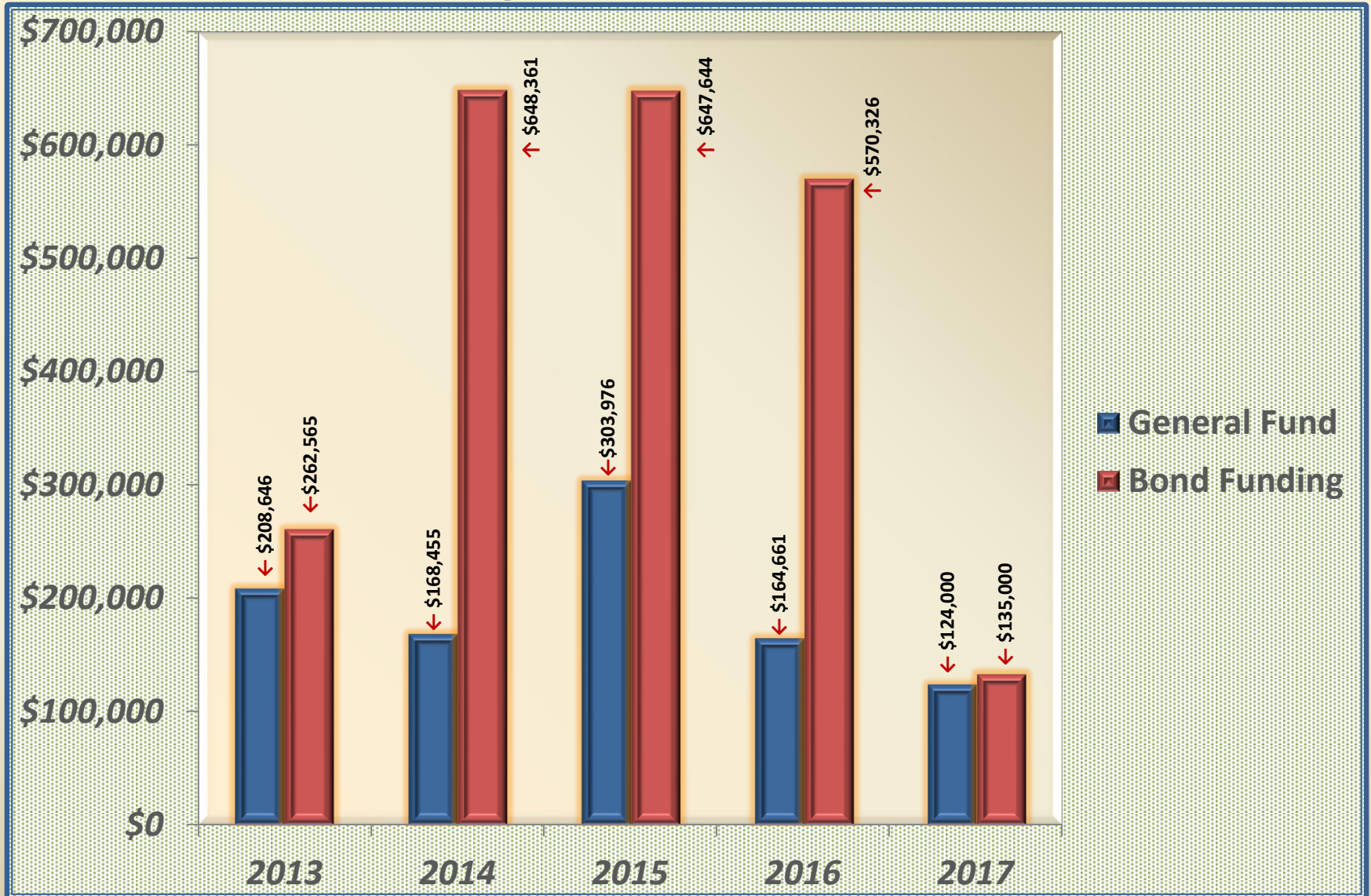
Country Way
Crommet Street
Gilman Street**
Hazelwood Avenue**

Lawrence Street
Mountain Farm Road
Pearl Street
Squire Street

Road Work Funded by Bond Appropriation

** Denotes Jointly Funded City/State Projects

Annual Expenditures for Roads



Types of Road Surface Treatment Applications

MAINTENANCE CATEGORY

EXPECTED LONGEVITY

Crack Seal (Routine)	3 - 5 Years
Shim (Preventative)	3 - 5 Years
Shim/Overlay (Preventative)	10 Years
Reclaim (Rehabilitate)	15 Years
Mill & Fill (Rehabilitate)	15 Years
Full Reconstruction (Reconstruct)	20 Years

-SUMMARY-

There are currently 6 miles of roads that need substantial work as either rehabilitation or reconstruction. It is estimated that the cost of repairs would be approximately **\$4 million**. We propose financing this total with bond funds over a 5 year period beginning with a 2018 bond issue for **\$1.5 million**.

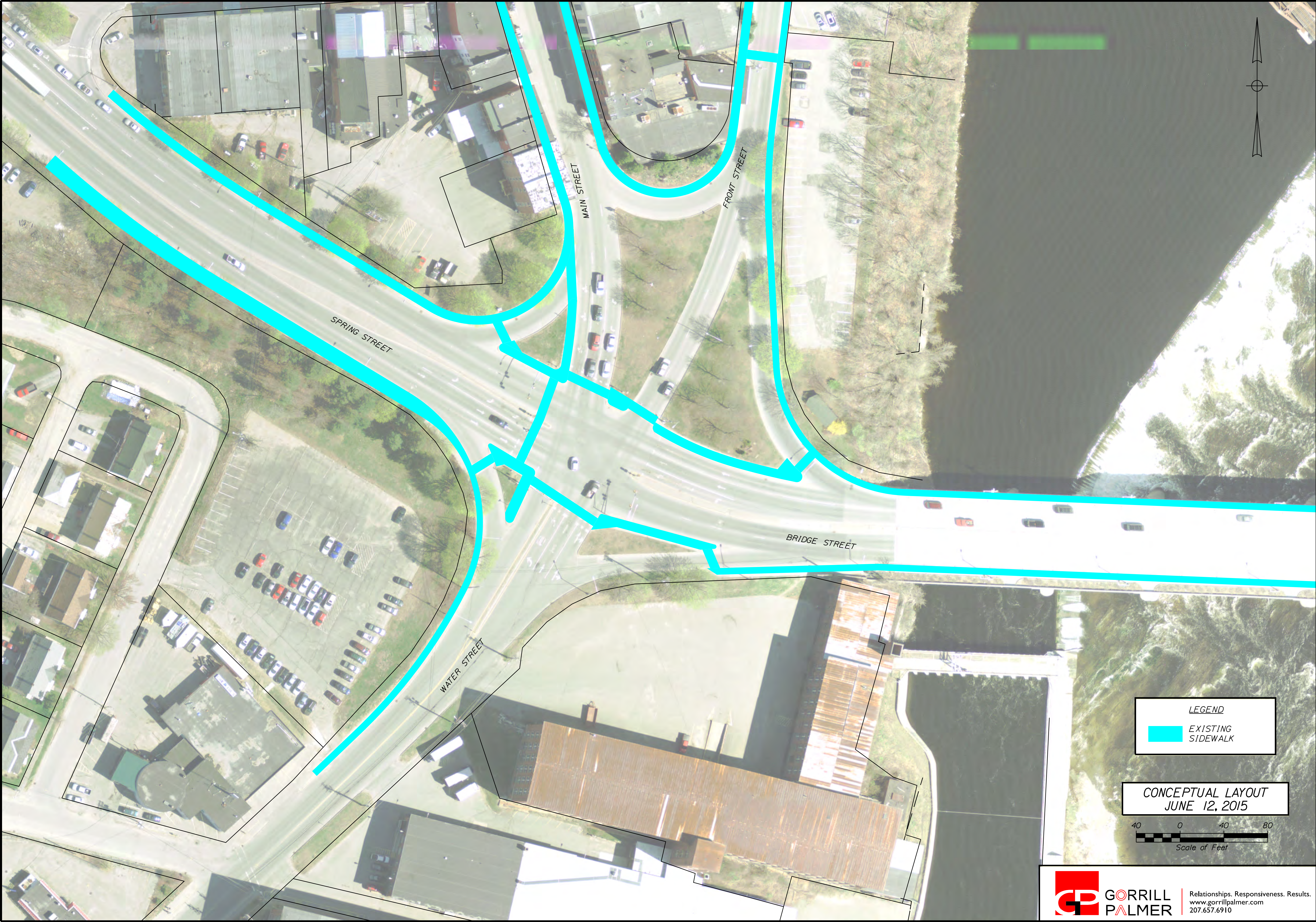
In addition to the proposed bond financed work, it is recommended that the City continue with annual appropriations of **\$50,000** for routine maintenance (crack sealing/seal coating) and **\$250,000** for pavement preservation work (shim/overlay). This yearly budgetary commitment will further efforts for maintaining the City's roads that do not yet need to be fully reconstructed.

At an estimated cost of approximately \$170,000 per mile for shim/overlay upgrades however, this annual appropriation only addresses about 20% of our projected road repair needs. Depending on how long the delay, the other 80% in deferred work could result in more extensive repairs being required which would move these roads into the capital construction (reclaim) category with an average cost of \$270,000 per mile.

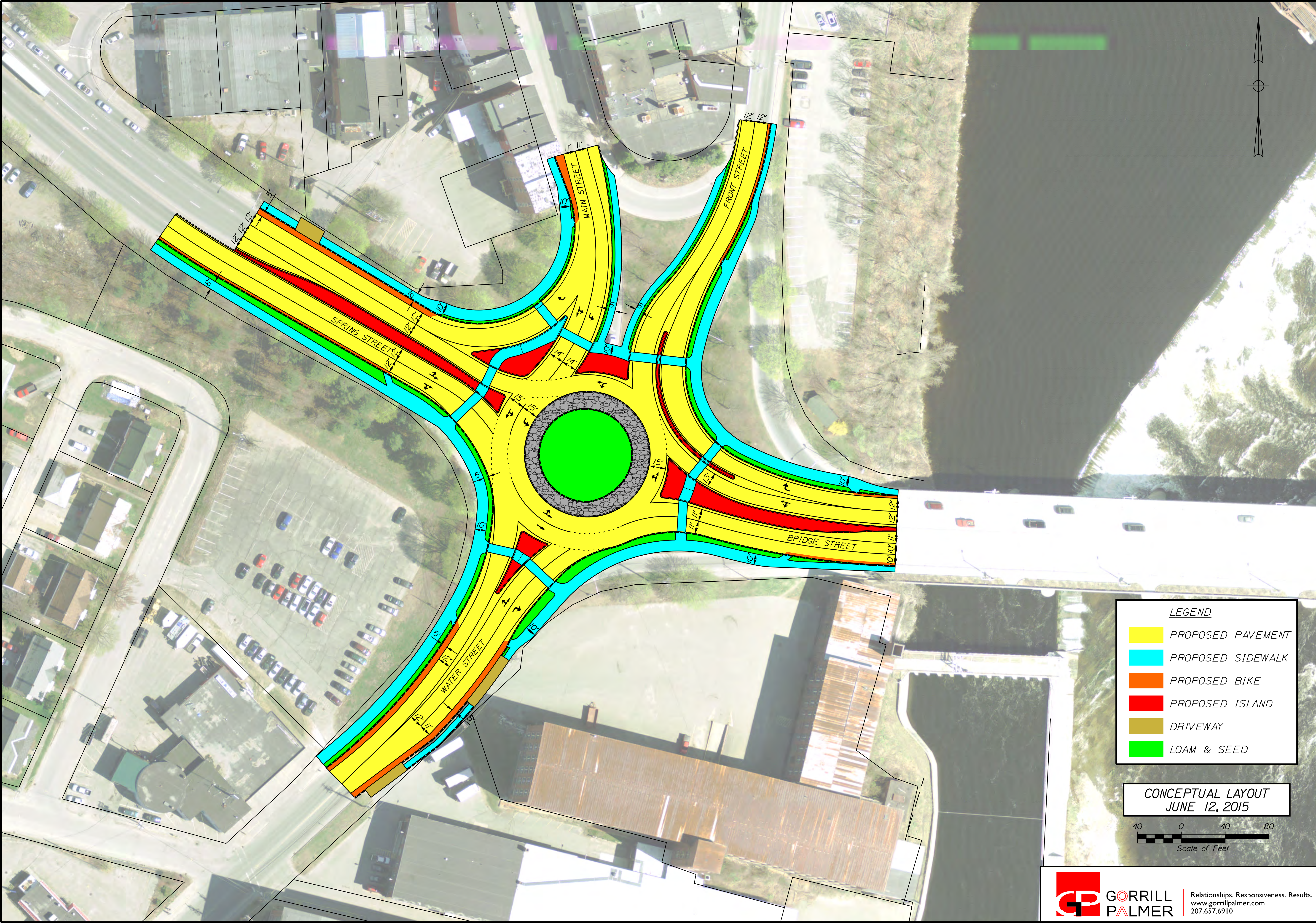
What's Next for 2018?

Stay Tuned

Results will depend on funding and the updated RSMS



CITY OF WATERVILLE MAINE		WATERVILLE SPRING STREET INTERSECTION		SHEET NUMBER 1 OF 5	
		EXISTING CONDITIONS PLAN			
		PROJ. MANAGER	\$PRJMANAGER\$	BY	DATE
		CHECKED-DETAILED	LEW/OCC	L.NEWHOUSE	06/12/15
		CHECKED-REVIEWED	D.ETINGER		06/12/15
		DESIGN-DETAILED			
		DESIGN-REVIEWED			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			
		SIGNATURE		P.E. NUMBER	
				DATE	
		WIN 18556.02		HIGHWAY PLANS	



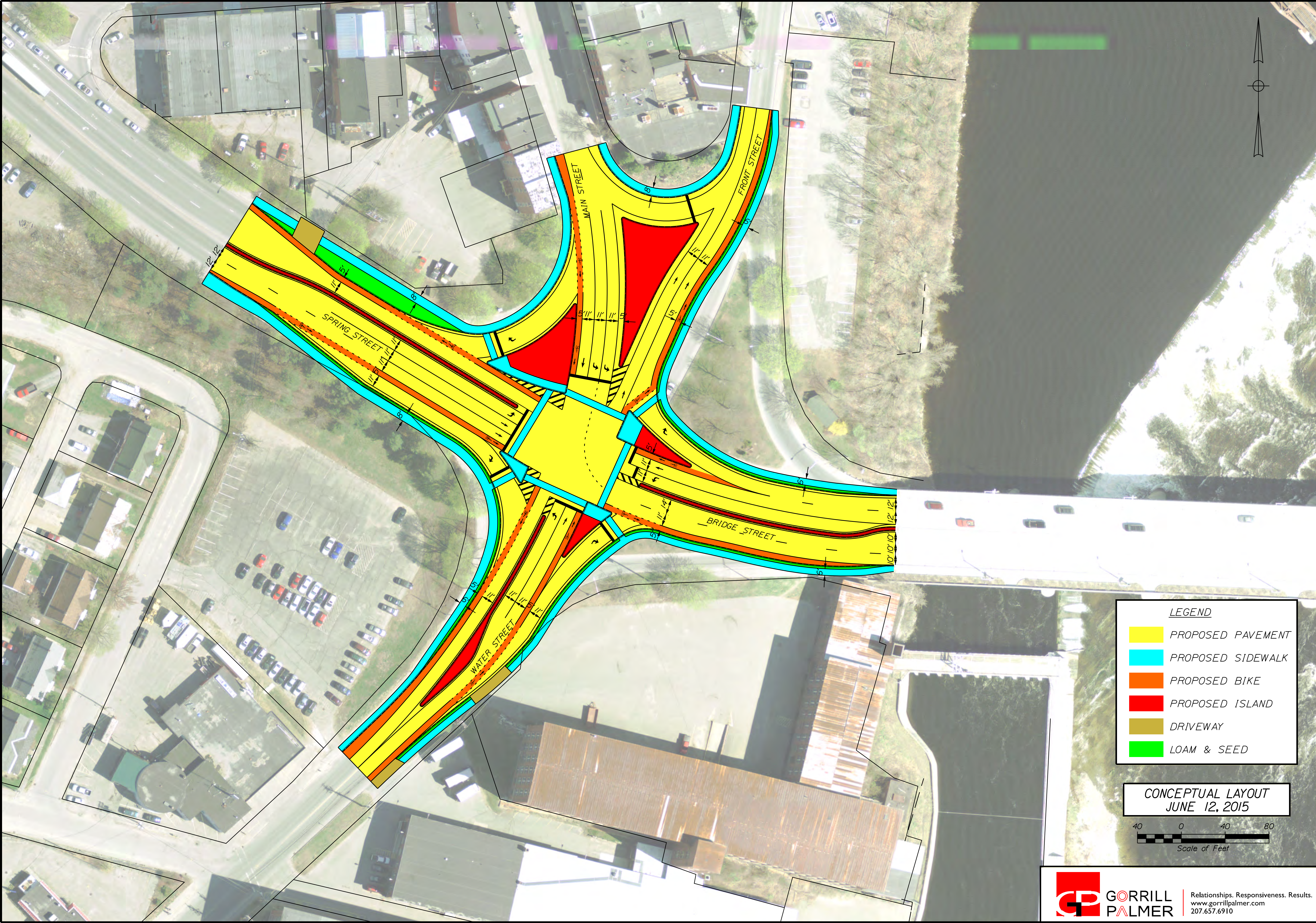
LEGEND

- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
- PROPOSED BIKE
- PROPOSED ISLAND
- DRIVEWAY
- LOAM & SEED

**CONCEPTUAL LAYOUT
JUNE 12, 2015**

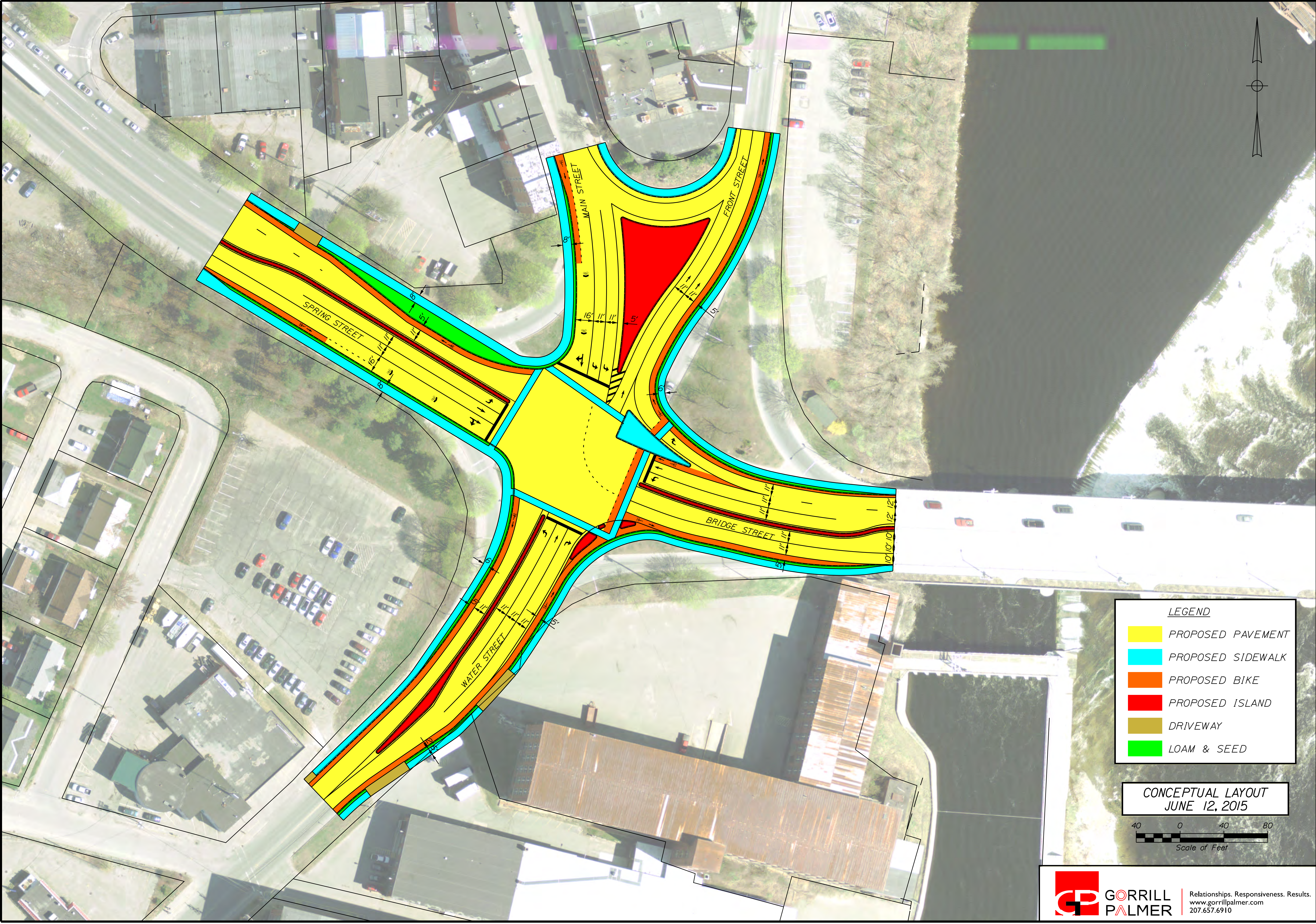
40 0 40 80
Scale of Feet

CITY OF WATERVILLE MAINE		WATERVILLE SPRING STREET INTERSECTION		PLAN OPTION 1	
		PROJ. MANAGER	\$PROJ.MANAGER\$	BY	DATE
		CHECKED-REVIEWED	LEW.OCC	L.NEWHOUSE	06/12/15
		DESIGNED-DETAILED	D.ETTINGER		06/12/15
		DESIGNED-DETAILED			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			
		SIGNATURE		P.E. NUMBER	
				DATE	
		WIN		18556.02	
		HIGHWAY PLANS			



CITY OF WATERVILLE									
MAINE									
SIGNATURE									
P.E. NUMBER									
DATE									
WIN 18556.02									
HIGHWAY PLANS									

WATERVILLE									
SPRING STREET INTERSECTION									
PLAN OPTION 2									
SHEET NUMBER									
3									
OF 5									



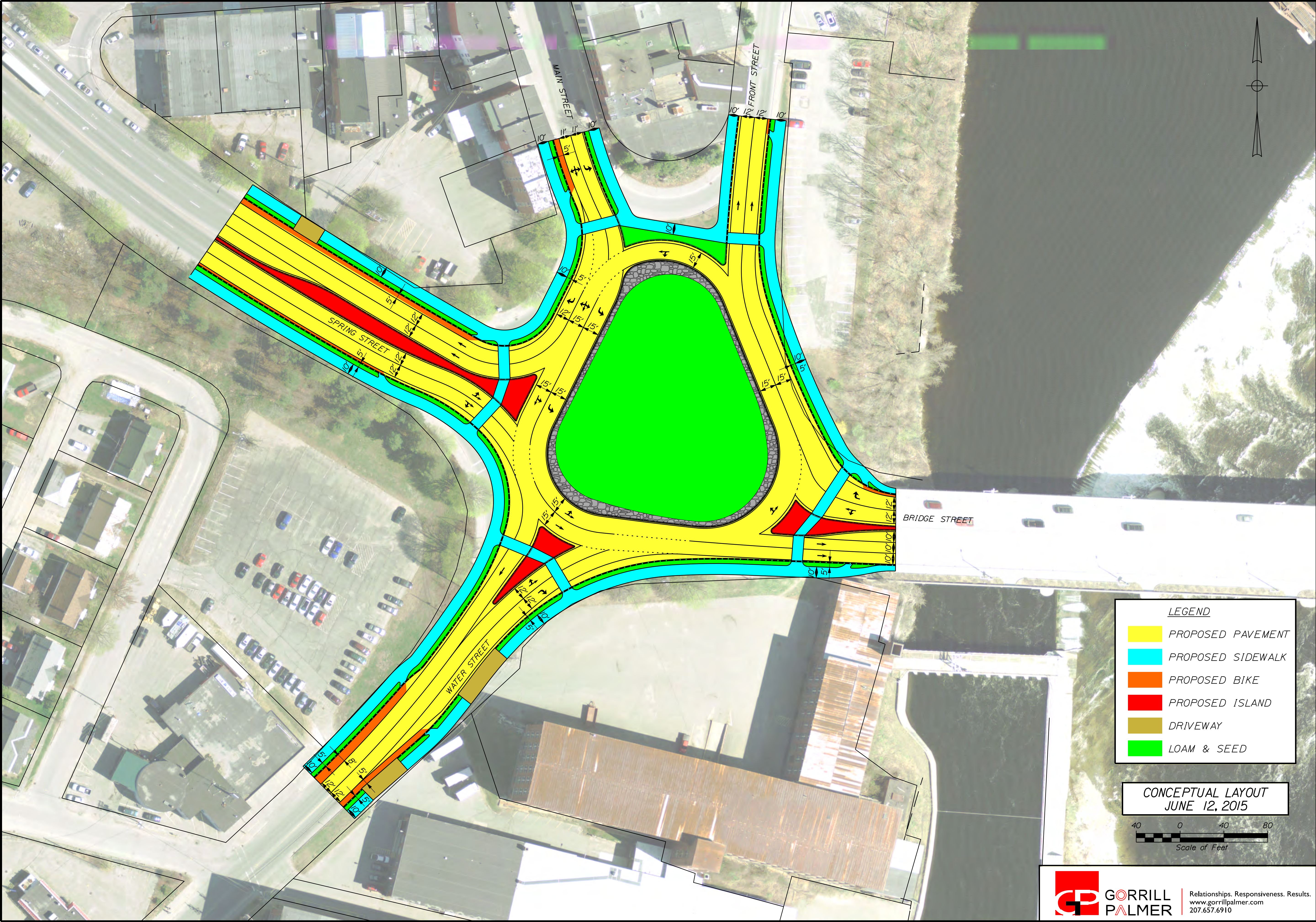
LEGEND

- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
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- LOAM & SEED

CONCEPTUAL LAYOUT
JUNE 12, 2015

40 0 40 80
Scale of Feet

CITY OF WATERVILLE		DATE		BY	
MAINE		L. NEWHOUSE		06/12/15	
		CHECKED-REVIEWED		SIGNATURE	
		DESIGNED-DETAILED		P.E. NUMBER	
		DESIGNED-DETAILED		DATE	
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			
WATERVILLE		PLAN OPTION 3			
SPRING STREET INTERSECTION					
SHEET NUMBER		4			
OF 5					
		WIN 18556.02 HIGHWAY PLANS			



LEGEND

- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
- PROPOSED BIKE
- PROPOSED ISLAND
- DRIVEWAY
- LOAM & SEED

CONCEPTUAL LAYOUT
JUNE 12, 2015

40 0 40 80
Scale of Feet

WATERVILLE SPRING STREET INTERSECTION		PROJ. MANAGER		\$PROJ. MANAGERS	BY	DATE
PLAN OPTION 4		DESIGN-DETAILED		LEMOCC	L.NE WHOUSE	06/12/15
		CHECKED-REVIEWED		DETINGER		
		DESIGN2-DETAILED2				SIGNATURE
		DESIGN3-DETAILED3				
		REVISIONS 1				P.E. NUMBER
SHEET NUMBER 5		REVISIONS 2				
		REVISIONS 3				
		REVISIONS 4				DATE
		FIELD CHANGES				
CITY OF WATERVILLE						
MAINE						
WIN		HIGHWAY PLANS				
18556.02						