SARATOGA COUNTY

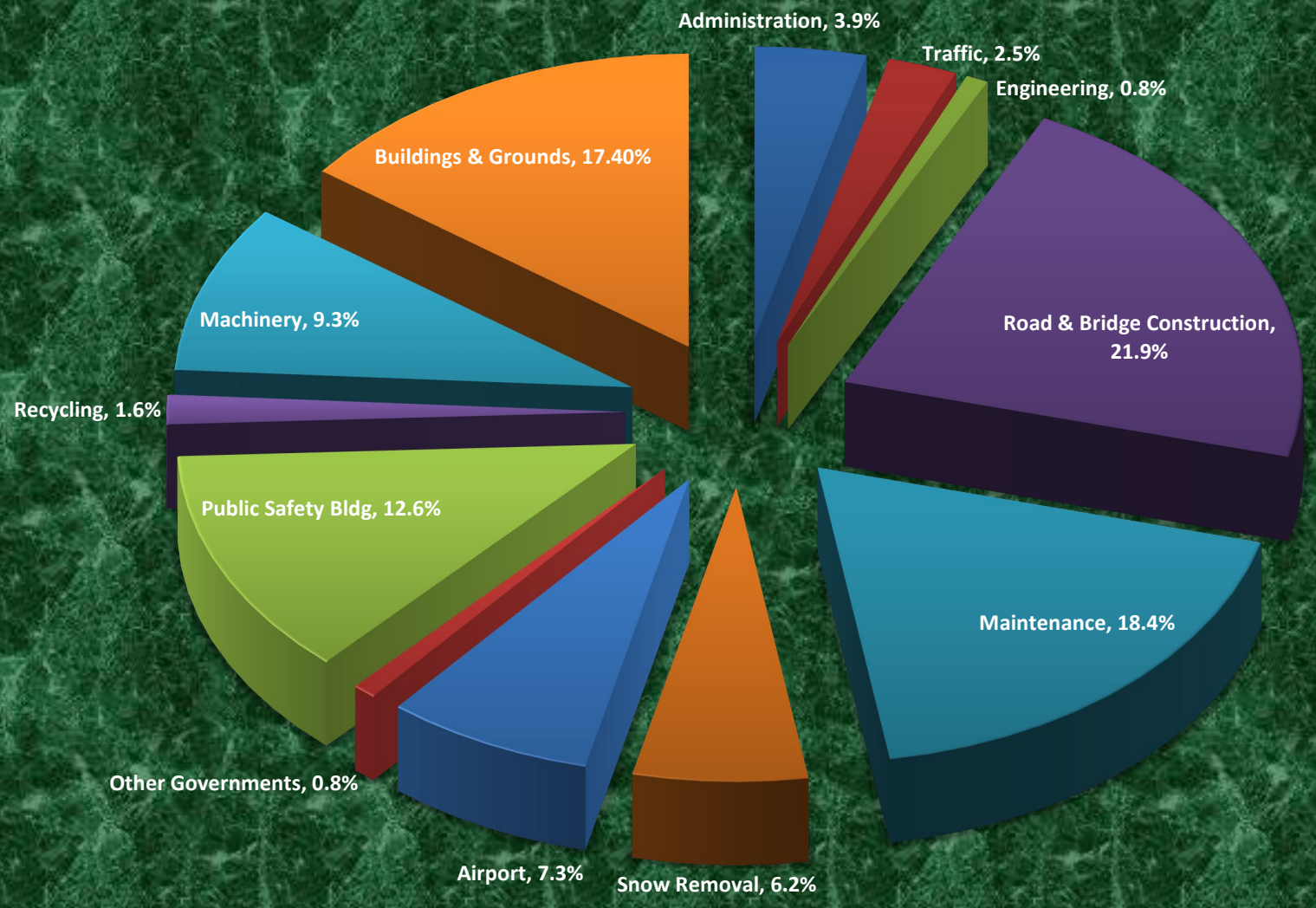
DEPARTMENT OF PUBLIC WORKS

2020 ANNUAL REPORT

Highway - Airport - Recycling
Buildings and Grounds

CHAD M. COOKE, P.E.
COMMISSIONER

Saratoga County Department Of Pubilc Works
2020 Expenditures



Approximate D.P.W. Total $39,214,617 as of 1/29/21

DEPARTMENT OF PUBLIC WORKS
2020 ANNUAL REPORT

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I. HIGHWAY DIVISION

A. HIGHWAYS

The Highway Division of Public Works is charged with the management and construction of the highway infrastructure for Saratoga County consisting of approximately 365 centerline miles of highway. The following capital projects comprised the 2020 highway reconstruction program for 18.00 miles of county highway along with construction methods used:

- **County Road 4 (North Shore Road) – 2.83 miles in the Town of Edinburg.** The project limits were from the intersection with County Roads 5 and 98 to Lakeland Road (T). In 2020 the entire project length had trees trimmed, improved roadside drainage and culverts replaced as needed. The driving panel was prepped for re-construction and placed on hold until 2021 due to weather constraints.

- **County Road 7 (South Shore Road) – 3.02 miles in the Town of Day.** The project extended from Turner Road (T) to Horse Hill Road (T). Turner Road north approximately 1.50 miles was reclaimed to a depth of 9 inches using full depth reclamation technique with the placement of 3 inches of binder course. The remaining 1.52 miles was trued and leveled. The entire length of the project then received a 1-inch hot mix asphalt wearing course.

- **County Road 16 (Barkersville Road) – 2.37 miles in the Towns of Galway and Providence.** The project limits were from SR 29 to County Road 13. The project consisted of cold-milling a total of 1.25 miles to a depth of 1-1/2 inches followed with a shim coat. The remaining 1.12 miles had full-depth reclamation to a depth of 7-9 inches with the placement of 1-1/2 inches of hot-mix binder. The entire length then received 1-1/2 inches of binder with a Fibermat wearing surface.

- **County Road 28 (South Glens Falls Fort Edward Road) – 2.60 miles in the Town of Moreau.** The project started from the CR-27 Intersection to the NYS Rte. 197 Intersection. This was Federal and State funded. The project was engineered by GPI and Callahan Industries was the contractor. The project included isolated full depth repairs as needed. The entire length of the project then received a 1-inch hot mix asphalt wearing course.

- **County Road 29 (West River Road) – 2.78 miles in the Town of Moreau.** The project started from Mott Road (T) to the Morrison Farm. The construction phase of this project was completed in 2019. The entire length of the project was fog-sealed with a Fibermat wearing surface.

- **County Road 42 (Clark's Mill Road) – 0.50 miles in the Towns of Saratoga and Northumberland.** The project limits were from SR 32 to Dix Bridge. The project was placed on hold till 2021.

- **County Road 59 (Middle Line Road) – 2.47 miles in the Town of Ballston.** The project started from SR 50 to County Road 60. The entire project length had a hot-in-place asphalt recycling process to a depth of approximately 2 inches. A paver placed surface treatment was then applied as a surface wearing course.

- **County Road 70 (Wayville Road) – 1.90 miles in the Town of Saratoga.** The project limits were from CR 71 to CR 67. In 2020, the entire project length had trees trimmed, improved roadside drainage and culverts replaced as needed. The driving panel was prepped for re-construction and placed on hold till 2021.

- **County Road 80 (Schauber Road) – 2.00 miles in the Towns of Ballston and Clifton Park.** The project limits were from SR 146A to Lake Road (T) at Lakeside Farms. The project was trued and leveled and topped with a 1-1/2 inch hot mix asphalt wearing surface.

- **County Road 80 (Round Lake Road) – 1.13 miles in the Town of Malta.** The project extended from CR 82 to the intersection with I-87 (Northway). From CR 82, 0.50 miles was trued, leveled and topped with 1 inch of hot mix asphalt wearing surface. A new asphalt gutter was placed along the south side adjacent to the Cemetery.

- **County Road 82 (Main Street) – 1.58 miles in the Town of Clifton Park.** The project limits were from SR 146A to Macelroy Road (T). All closed drainage pipe was replaced including easement drainage. Prospect Point Lane to Macelroy Road was cold milled to a depth of 1-1/4 inch. The entire project was trued and leveled and followed up with the placement of a 1-1/2 inch hot mix asphalt wearing surface.

All 2020 projects listed above were paved with Saratoga County's standard 10 foot wide travel lanes and 4 foot wide paved shoulders where possible. In addition to pavement rehabilitation and reconstruction tasks, the above projects included other work such as; traffic sign installation/replacement, drainage system reconstruction, vegetation removal/control, erosion control, installation and repair of guiderail, and roadway striping. The roadway reconstruction work was completed primarily by D.P.W. forces. Specialty pavement processes were completed by subcontractors, as required.

B. BRIDGES AND CULVERTS

In 2020, two (2) bridges were replaced, two (2) bridges were rehabilitated and three (3) culverts were rehabilitated or replaced. The completed work is summarized as follows:

Bridges Replaced:

B.I.N. 3304250, L.I.N. 191.00, CR 4 (North Shore Road) over Paul Creek, Town of Day. This bridge was the total replacement of a bridge in the same location which was extensively damaged by the Halloween Storm of 2019. The new bridge is constructed of concrete footings founded on micro piles, cast-in-place concrete abutments and wing walls, galvanized steel girders and a concrete deck. It also included new approaches, guiderail and signage. This replacement is being 75% reimbursed by FEMA.

B.I.N. 3304740, L.I.N. 373.00, CR 13 (Barkersville-Fayville Road) over Cadman Creek, Town of Providence. This was a complete replacement using a 3-sided precast concrete box culvert with cast-in-place concrete footings founded on steel H-piles, cast-in-place wingwalls and headwalls. It also included new approaches, asphalt wearing surface, guiderail and signage.

Bridges Rehabilitated:

B.I.N. 3304130, L.I.N. 50.00, Clark Road (T) over Snook Kill, Town of Moreau. The concrete deck was repaired, waterproofing membrane and new asphalt wearing surface was installed. This was a Federal/State Aid project.

B.I.N. 3304140, L.I.N. 51.00, CR 29 (West River Road) over Snook Kill, Town of Moreau. The concrete deck was repaired, waterproofing membrane and new asphalt wearing surface was installed. This was a Federal/State Aid project.

Culverts Rehabilitated/Replaced:

L.I.N. 287.10, CR 23 Brook Road over Slade Creek, Saratoga Springs. This project was postponed until 2021, due to a delay by the utility company in relocating a major transmission line.

L.I.N. 319.11, CR 59 (Middle Line Road) over the Gordon Creek, Town of Milton. The corrugated metal pipe arch structure was replaced with a new three sided precast concrete box culvert with precast footings and wingwalls founded on steel H-piles with a clear span of 15 feet. The roadway was repaved and new bridge and approach guiderail was also installed. This was a Culvert NY Program State Aid project.

L.I.N. 329.26, CR 19 (North Creek Rd.) over a Trib. of the Kayaderosseras Creek, Town of Greeenfield. This twin corrugated metal pipe culvert was relined with HDPP and grouted in place due to severe section loss in both the inverts. This work was completed by D.P.W. forces.

L.I.N. 239.00, CR 67 (Quaker Springs Rd) over a Trib. of the Sucker Brook is in the Town of Saratoga. This corrugated metal pipe was relined with HDPP and grouted in place due to severe section loss in the pipe. This work was completed by DPW forces.

Bridge Maintenance:

Bridge No 119.20, B.I.N. 3304350, CR 45 (Galway Rd) over the Kayaderosseras Creek, Town of Milton. Several deep areas of the spalling concrete deck were repaired using DOT approved fast set concrete while traffic was maintained.

Bridge No 144.00, B.I.N. 3364170, CR 8 (Conklingville-Linwood Rd) over the Sacandaga Resivoir, Town of Hadley. Several deep areas of the spalling concrete deck were repaired using DOT approved fast set concrete while traffic was maintained.

Bridge Crew

The county bridge crew continued to perform required maintenance on numerous county owned bridges and culverts including, but not limited to; mowing of embankments, cleaning, and installation of scour protection, miscellaneous repairs, removal of channel debris, railing, slip lining older pipes and asphalt repairs. The bridge crew also maintains and rehabilitates stone retaining/guiderail walls on county roads.

C. HIGHWAY / GROUNDS MAINTENANCE PROJECTS

Maintenance projects completed in 2020 include the following:

Due to the COVID-19 pandemic and the 2-month shutdown at Saratoga County we were not able to complete any crack sealing this year. We plan for 2021 to return to the process of crack sealing County roads.

- County Road 16 (Barkersville-Fayville Road). Concrete canvas fabric lining was installed on the invert of a culvert pipe located approximately 1,500 feet from SR 29. This process allows the County to economically extend the life of culvert pipes.
- Devils Lane (T) in the Town of Ballston. County owned bridge deck was repaired due to age and general traffic use. BIN 3304690, LIN 102.00.
- A county owned bridge in the town of Milton on Dewar Road had deck repair to it due to age and general traffic use. BIN 3304300, LIN 114.00.
- County Road 49 (Rock City Road). County owned bridge deck was repaired due to age and general traffic use. BIN 3304560, LIN 119.00.
- On Hans Creek Road in the Town of Providence a county owned bridge deck was repaired due to age and general traffic use. BIN 3304270, LIN 173.00.
- On County Road 27 (Bluebird Road) in the Town of Moreau the Fenimore Bridge concrete curbing was repaired. BIN 3368290, LIN 59.10.
- In the Village of Victory Mills, a county owned bridge deck had curb repair completed. BIN 3304420, LIN 32.00.
- A cross pipe on County Road 110 (Blue Barnes Road) was repaired. ¼ mile in from NYS RT 146.
- Repaired the asphalt parking lot at the Woodlawn Avenue Office Building in the City of Saratoga Springs.
- Replaced a 12” cross pipe on Geyser Road (County Road 43) at the intersection of Eureka Drive.
- Made repairs to the headwall and invert of a culvert pipe on County Road 67 (Quaker Springs Road).
- Slip lined a culvert pipe on County Road 70 (Wayville Road) near the Sweet Road intersection.
- Replaced 80 feet of culvert pipe on County Road 70 (Wayville Road) approximately 0.41 miles north of the CR 71 intersection.
- Relined a drop inlet on County Road 69 (Coveville Road) located approx. 0.61 miles from the intersection with SR 32.
- Repaired erosion on the Dimmick Road bridge BIN 3304510 LIN 91.00.
- Improved the ditches in the County Park in the Town of Day.
- Made repairs at the Milton Recycling Center at the County Farm Road Complex including replacing rotting wood, fixing broken concreate, and repair to stairs.
- Dredged the retention pond at the County Farm Road Complex, behind DPW.
- Cleaned several drainage cross pipes on County Road 33 (Ballard Road) near DA Collins Headquarters.

In addition, continual maintenance of Saratoga County's 365 mile highway system included:

- Snow and Ice Control.
- Roadside mowing within the County right-of-way to provide maximum visibility for vehicles entering and the prevention of root encroachment into the sub-base.
- Repairs of road deficiencies such as; low shoulders and potholes due to wear and tear.
- Clearing roadside ditches and culverts for positive drainage.
- Removing and trapping beavers and their dams.
- Removal of hazardous trees and overhanging tree limbs.
- Sweeping of roadways as required.
- Repair of damaged guiderail.

D. TRAFFIC DIVISION

The Traffic Division performs the following tasks on an on-going basis:

- Roadway striping using the County owned paint striper for all County roads. Approximately 1,200 miles of centerline and edge line delineation for County roads, in addition to many town roads, were striped in 2020. The following towns and villages contracted with Saratoga County in 2020 for their roadway striping; Ballston, Ballston Spa, Clifton Park, Corinth, Edinburg, Greenfield, Hadley, Halfmoon, Milton, Moreau, Northumberland, Saratoga, South Glens Falls, Stillwater, Waterford and Wilton.

- Maintain, repair and replace traffic signs, as needed, from the approximately 9,000 County highway sign inventory. This includes updating all traffic signs to ensure they conform to the Manual of Uniform Traffic Control Devices. Routinely, throughout the year, signs are fabricated to maintain inventory.

- Delineators on County roads are repaired and/or replaced as needed. All guiderail on 2020 reconstruction projects were marked with delineator plates.

- Install & maintain identification markers on County owned culverts.

- Install/maintain signs for the Saratoga County Adopt-a-Roadside Program. There are presently 44 organizations participating in this program.

- Traffic counts were not done this year because of COVID-19. The counts are used for traffic studies, reconstruction planning and are provided to the N.Y.S.D.O.T. In addition, special counts were obtained at specific intersections for traffic safety studies, as needed.

- Provide striping and decals for all County vehicles as required.

- Maintenance and operation of sixteen (16) county owned traffic signals. All bulbs are changed annually for safe and uninterrupted service.

- Erect construction signage and variable message boards in accordance with the Manual of Uniform Traffic Control Devices in order to maintain and protect traffic during highway and bridge reconstruction projects.

- Install reflective pavement tape at stop bars, median islands, turn arrows, school crossings, and railroad crossings as needed.

- Continually update the sign inventory in our sign management database and for use in our G.I.S. system to keep traffic control records current.

- Cut and trim brush around signs and intersections, as necessary, to maximize sight distance.

- Provide preventative maintenance and winterize the County owned paint striper.

- Maintain (6) portable variable message signs.

- Maintain two (2) portable traffic signals.

E. MACHINERY

Winter Maintenance:

Throughout the year, The Department of Public Works continued its winter maintenance activities including; advanced planning for replacements/repairs needed for plow trucks, hoppers and other weather-related equipment. Refer to Section N for the Saratoga County Public Works 2020 Snowfall Report.

Vehicle and Equipment Maintenance:

In 2020, The Department of Public Works maintained nearly 1,000 County vehicles and pieces of equipment. This includes Public Works vehicles, heavy equipment, as well as vehicles for 13 other County departments, from chainsaws and tandem trucks to snowmobiles, boats and police patrol vehicles. In addition, we also maintain 27 portable emergency back-up generators for various departments.

Our in-house auto body shop is responsible for everything from major collision repairs to replacing a broken mirror. They are also tasked with installing the prisoner partitions and related equipment in all patrol vehicles. They do 100% of the specialty fit-up required for the K-9 units as well. In addition to their typical workload of deer collisions and traffic accidents they also do specialty work such as, repainting, re-coloring, re-purposing vehicles, modifying and changing bodies on vehicles. This year they worked in conjunction with the Sheriff's Department on a special project for

the Drug Abuse Education Program; this involved completely stripping, repairing and repainting a school bus. This task required them to work onsite as well as at the Saratoga School Bus Garage.

The metal working segment of our shop consists of two welder/fabricators and a machinist. Their main objective is to repair equipment in need of structural work onsite and in the field. They have rebuilt multiple snowplow/wing combinations this year that typically would have been retired from service. This is especially important this year as (4) of our new plow trucks that were ordered failed to arrive as scheduled due to COVID. They also routinely complete building maintenance related tasks. An extension table was constructed and installed on the blueprint scanner, fixing and painting metal doors, dividers, and filing cabinets. The upper edge of the loading dock cap was replaced and re-anchored by our senior welder.

Our parts department has been especially busy. The nationwide shutdown resulted in a serious shortage of auto parts which require exhaustive searches for needed parts. We also have posted a large quantity of surplus old stock and retired equipment up for auction this year resulting in added revenue while reducing onsite clutter.

Equipment Refurbished:

- Rebuilt Truck 9012, which received a new clutch and transmission as well as new steering components and suspension pieces.
- Rebuilt Plow Truck 9007 which received extensive body work to the cab area.
- The heavy equipment mechanics also worked through the County shutdown on a rotating schedule. This enabled the DPW work forces to have trucks and equipment serviced and ready to work when the shutdown ended.

All of the above repairs were completed by DPW personnel and extended the service life and enhanced the performance of these pieces of equipment.

Capital Equipment Purchases:

Highway Equipment:

(2) 12 cy Tandem Axle Dump/Plow Trucks
(1) Chevy 1 ton truck for sign shop
(1) CAT mini-excavator
(1) (Guiderail) Post Pounder Truck

Buildings and Grounds Equipment:

(1) Chevrolet Box truck
(1) Chevrolet work Van
(1) Genie Man Lift
(1) Bobcat Skid Steer

F. OTHER

The Engineering Department performs a variety of tasks related to matters such as design work, training, record keeping, preparing specifications, highway permits, consultant/contractor/vendor management and inspections as described in the following:

- Perform annual road rating which systematically prioritizes the rehabilitation and maintenance needs of all county highways.
- Perform comprehensive inspections on County owned culverts (span: 5' to under 20').
- Inventory County road mileage as required by N.Y.S.D.O.T.
- Create specifications for all construction and highway materials such as asphalt concrete, rubble, and reflective sheeting for traffic signs. Bid results are forwarded, as requested, to all towns, villages and cities for their use.
- Prepare specifications for all highway capital equipment purchases.
- Review site plans, subdivision and commercial development plans to determine their impact on the safety of our county highways and issue permits as required.
- Prepare maps and documentation for the Solid Waste Management Facility (former Saratoga County Gravel Pit / Stump Dump located on NYS RT 29 in the Town of Saratoga) as required by state agencies.
- Prepare maps and documentation for the airport as required by state and federal agencies.
- Attend state and federal safety training programs and workshops.
- Investigate/respond to all correspondence from residents in a timely fashion.
- Utilize G.I.S. software for storing and analyzing pertinent departmental records.
- Perform design work for small bridges and culverts as well as miscellaneous projects.
- Manage and oversee consultants and contractors.
- Manage and oversee the County petroleum Bulk storage tanks, in accordance with NYSDEC regulations.
- Coordinate with the Kesselring Site for Super-moves related to their refueling projects.

The following training programs were conducted by DPW Engineering Personnel in 2020:

- Snowplowing and Driving Safety Training
- In person group training programs were not conducted due to COVID-19.

In addition, our foremen and supervisors conduct weekly tailgate safety meetings with crew members.

G. PERMITS

The Department of Public Works has a permit system for entrance onto all County roads and work performed within the county right-of-way. All permits are hard copy and computer database filed. The following is a summary of permits issued to utilities, commercial, subdivision and residential entities over the past 10 years (from 2010 – 2020):

Entrance Permits (Driveways and Streets):

Year	Residential	Commercial	Subdivision	Yearly Total
2010	22	1	4	27
2011	23	8	2	33
2012	32	5	2	39
2013	31	0	0	31
2014	33	6	1	40
2015	35	4	2	41
2016	39	6	5	50
2017	35	18	0	53
2018	30	13	7	50
2019	31	8	0	39
2020	22	21	5	48

Utility Permits (National Grid, Telephone):

Year	Nat. Grid	NYNEX/Verizon	*Misc.	Yearly Total
2010	50	7	22	79
2011	47	1	25	73
2012	55	0	22	77
2013	56	1	13	70
2014	59	0	9	68
2015	110	1	16	117
2016	45	3	23	71
2017	40	4	12	56
2018	82	2	39	123
2019	104	5	23	132
2020	80	1	66	147

* Miscellaneous permits include the installation of private water and sewer lines within the county right-of-way.

H. 2021 HIGHWAY STRUCTURES RECONSTRUCTION SCHEDULE
(FROM APPROVED 5-YEAR CAPITAL PLAN)

HIGHWAYS:

Road	Road Name	Section	Miles	Town
29 B	West River Road	Callahan Road to Peters Road	2.50	Northumberland
36 A	Wilton Greenfield Rd	US 9N to Brigham Road	2.40	Wilton/Greenfiled
42 A	Clark's Mill Road	US 4 to Dix Bridge	0.50	Saratoga / Northumberland
43 D	Geyser Rd	SR 50 to Milton Town Line	2.05	Saratoga Springs
53 A	Lake Hill Rd	Schenectady County Line to CR 54	1.37	Charlton
59 B	Middle Line Rd	CR 60 to SR 67	1.70	Ballston
70 B	Wayville Rd	CR 71 to CR 67	1.90	Saratoga
97 A	Fonda Rd	Village of Waterford to CR 96	2.60	Waterford

Total Year 2021: 15.02 Miles

LOCALY FUNDED STRUCTURES:

Road	Bridge	Town	L.I.N.	Phase
24	Spier Falls Road over Trib. To Hudson	Moreau	252.00	Construction

FEDERALY FUNDED STUCTURES:

Road	Bridge	Town	L.I.N.	Phase
Town	Hans Creek Road over Hans Creek	Providence	176.00	Construction
31	Fortsville Road over Northville Branch Creek	Moreau	250.00	Construction
Town	Ashdown Road over D & H Railroad Replacement	Clifton Park	269.90	Construction

I. 2021 GOALS FOR SARATOGA COUNTY HIGHWAY DIVISION

HIGHWAYS:

- Reconstruct 15.02 miles of county roadways in accordance with the 2021 Capital Plan.
- Construct a new traffic signal at the intersection of CR 90 and CR 91 in the Town of Clifton Park
- Continue transferring County highways and facilities mapping into digital format.
- Continue expansion of G.I.S. database for pertinent departmental records.
- Continue inventory/inspection program on County owned culverts.

STRUCTURES:

- Complete the reconstruction of one (1) County owned highway structures under the local program.
- Complete the reconstruction of three (3) county owned structures under the Federal/State Aid Program
- Complete the engineering for one (1) county owned highway structure under the under the Federal/State Aid Program.

All goals are in accordance with the 2021 Capital Plan.

J. 2019 SARATOGA COUNTY HIGHWAY SYSTEM
(Mileage by Road, as of 5/20/20)

ROAD NO.	ROAD NAME	MILEAGE
1	Hadley - Stony Creek Road	6.42
2	Peters Road	0.19
4	North Shore Road	22.74
5	Sinclair Road	3.47
7	South Shore Road	21.07
8	Conklingville-Linwood Road	1.50
9	River Street Bridge	0.06
10	Mosher Road / Corinth - West Mountain Road	8.76
12	Lake Desolation Road	4.76
13	Barkersville - Fayville Road	7.45
14	Hagedorn Mills /Fishouse Rd / Crooked Street	8.59
16	Barkersville Road	4.05
19	North Creek / North Greenfield Road	6.62
21	Middle Grove Road	7.86
22	Crescent Avenue	3.57
23	Brook Road	1.02
24	Palmer Avenue / Spier Falls Road	10.12
25	Spier Falls – North Greenfield Road	5.69
27	Bluebird Road	3.72
28	South Glens Falls - Fort Edward Road	3.08
29	West River Road	9.99
31	Fortsville Road	3.19
32	Wilton - Gansevoort Road	5.08
33	Ballard Road	3.91
34	Northern Pines Road	4.56
36	Wilton-Greenfield Road	5.16
39	King Road	4.84
40	Wall Street	2.14
41	Old Ballston Ave. North	0.10
42	Clark's Mill Road	0.50
43	Geyser Road	5.29
44	Cady Hill Road	0.59
45	West Galway Road / Ballston Road / Galway Road / North Line Road	15.29
46	Duplainville Road	0.91
47	Rowland Street	2.74
49	West Milton - Rock City Road	3.02
50	Greenfield Avenue	2.10
51	Charlton Road	8.41
52	Jockey Street / Swaggertown Road	12.47
53	Stage Road / Lake Hill Road	2.94
54	Stage Road	1.13
55	Sweetman Road	2.88

SARATOGA COUNTY HIGHWAY SYSTEM (continued)

ROAD NO.	ROAD NAME	MILEAGE
56	Hop City / Scotch Bush Road	5.85
57	Goode Street	6.06
58	Lake Hill Road	0.29
59	Middle Line Road	9.11
60	Brookline Road	1.51
61	Rowley Road	2.25
63	Malta Ave. / Malta Ave. Extension	4.28
64	Nelson Ave. Extension	3.50
65	Meadowbrook Road	2.37
66	Dyer Switch Road	0.88
67	Staffords Bridge- Quaker Springs Road	6.10
68	Staffords Bridge- Cramer Road	3.85
69	Coveville Road	2.42
70	Deans Corners - Wayville Road	4.80
71	Cedar Bluff Road	4.31
72	100 Acre Woods Way	0.30
73	Rocket Way	0.54
75	Mechanicville - Stillwater Road	5.73
76	Lake Road	6.10
77	Stonebreak Road Ext.	1.88
78	Luther Forest Blvd.	2.29
80	Schauber / Round Lake Road / Maltaville Road	5.67
82	East Line /Longkill Road	4.98
86	Upper Newtown Road	2.83
88	Rexford Road	0.44
90	Vischer Ferry Road	4.73
91	Grooms Road	8.31
92	Crescent Road	3.57
94	Guideboard Road	2.00
95	Harris Road	1.92
96	Middletown Road	3.24
97	Fonda Road	2.60
98	Batchellerville Bridge Road	1.23
99	Church Hill Road	0.84
101	Corinth Mountain Road	0.52
104	Murray Road	1.87
108	Dunning Street - Saratoga Lake Road	2.26
109	Kinns Road/ Farm-to-Market Road	6.76
110	Blue Barns Road	3.35
338	Battle Monument Road	1.35
339	Lake Hill Road	1.08
1345	Pruyn Hill Road	2.32
	Total County Road Mileage	**365.28**

K. 2019 SARATOGA COUNTY HIGHWAY SYSTEM
(Mileage by Town, as of 5/20/20)

Town	Mileage
BALLSTON	27.83
CHARLTON	18.60
CLIFTON PARK	23.23
CORINTH	13.80
DAY	20.88
EDINBURG	19.45
GALWAY (includes Village)	19.60
GREENFIELD	25.74
HADLEY	17.94
HALFMOON	15.83
MALTA	19.66
MILTON	24.66
MOREAU	19.01
NORTHUMBERLAND	13.97
PROVIDENCE	15.63
SARATOGA	19.82
SARATOGA SPRINGS	14.91
STILLWATER	14.46
WATERFORD	5.34
WILTON	14.92
TOTAL MILEAGE:	**365.28**

L. 2019 TOWN ROAD MILEAGE
(as of 5/20/20)

Town	Mileage
BALLSTON	54.46
CHARLTON	46.61
CLIFTON PARK	218.12
CORINTH	42.09
DAY	31.78
EDINBURG	34.97
GALWAY (includes Village)	57.76
GREENFIELD	93.85
HADLEY	38.38
HALFMOON	114.01
MALTA	72.81
MILTON	75.21
MOREAU	83.65
NORTHUMBERLAND	60.15
PROVIDENCE	44.67
SARATOGA	60.07
SARATOGA SPRINGS	141.12
STILLWATER (includes Village)	67.35
WATERFORD	24.30
WILTON	110.77
TOTAL MILEAGE:	**1,472.13**

M. 2018 INTERSECTIONS

INTERSECTIONS WITH TRAFFIC SIGNALS

1. C.R. 33 (Ballard Rd.) and North Rd.(T), & Traver Rd. (T)
2. C.R. 43 (Geyser Rd.) and C.R. 44 (Cady Hill Rd.)
3. C.R. 45 (Northline Rd.) and C.R. 47 (Rowland St.)
4. C.R. 77 (Stonebreak Ext.) and C.R. 78 (Luther Forest Blvd.)
5. C.R. 82 (East Line Rd.) and C.R. 80 (Round Lake Rd.)
6. C.R. 91 (Grooms Rd.) and Lapp Rd. (T)
7. C.R. 91 (Grooms Rd.) and Moe Rd. (T)
8. C.R. 92 (Crescent Rd.) and Lapp Rd. (T)
9. C.R. 92 (Crescent Rd.) and Moe Rd. (T)
10. C.R. 92 (Crescent Rd.) and Plaza 8 Dr. (T)
11. C.R. 95 (Harris Rd.) and C.R. 96 (Middletown Rd.)
12. C.R. 96 (Middletown Rd.) and Brookwood Rd. (T)
13. C.R. 96 (Middletown Rd.) and C.R. 97 (Fonda Rd.)
14. C.R. 109 (Kinns Rd.) and Plank Rd. (T)
15. C.R. 110 (Kingsley Rd.) and C.R. 339 (Lake Hill Road)
16. C.R. 110 (Blue Barns Rd.), and Ashdown Rd. (T) & Bradt Rd. (T)

(T) = Town Road

INTERSECTIONS WITH 4-WAY STOPS

1. C.R. 91 (Grooms Rd.) and C.R. 90 (Vischer Ferry Rd.)
2. C.R. 50 (Greenfield Ave.) and C.R. 45 (Northline Rd.)
3. C.R. 22 (Crescent Ave.) and C.R. 64 & Nelson Ave. (City)
4. C.R. 75 (Mechanicville/Stillwater Center) and C.R. 76 (Lake Rd.)
5. C.R. 51 (Charlton Rd.) and C.R. 57 (Goode St.)
6. C.R. 51 (Charlton Rd.) and C.R. 59 (Middle Line Rd.)
7. C.R. 27 (Bluebird Rd.) and C.R. 28 (Ft. Edward)
8. C.R. 25 (Spier Falls Rd.) and Main St. (T)
9. C.R. 59 (Middle Line Rd.) and C.R. 43 (Geyser Rd.)
10. C.R. 59 (Middle Line Rd.) and C.R. 45 (Galway Rd.)
11. C.R. 90 (Vischer Ferry Rd.) and Clifton Park Center Rd. (T)
12. C.R. 19 (N. Creek Rd.) Porter Corners Rd. (T) & Allen Rd. (T)
13. C.R. 45 (Northline Rd.) and Old Post Rd (T)
14. C.R. 51 (Charlton Rd.) and C.R. 56 (Scotch Bush-Hop City Rd)
15. C.R. 109 (Farm to Market Rd.) and C.R. 1345 (Pruyn Hill Rd.)

(T) = Town Road

N. SNOWFALL REPORT

Saratoga County D.P.W. Snowfall Report

(FROM SARATOGA SPRINGS WEATHER OBSERVATION STATION)

SEASON	MONTH	TEMPERATURE HIGH	TEMPERATURE LOW	TOTAL SNOWFALL (INCHES)	DATE OF MAX. SNOWFALL	INCHES OF MAX. SNOWFALL	TOTAL NO. OF OCCURRENCES
2017-18							
17	OCTOBER	80	29	3.45	10/24/2017	0.8	12
17	NOVEMBER	54	13	1.77	11/19/2017	0.6	14
17	DECEMBER	45	-10	18.20	12/25/2017	7.2	18
		SUBTOTAL =		**23.42**			**44**
18	JANUARY	61	-19	13.40	1/17/2018	5.2	11
18	FEBRUARY	68	-2	22.10	2/7/2018	6.6	14
18	MARCH	58	9	21.50	3/2/2018	8.6	7
18	APRIL	71	19	1.30	4/7/2018	1.8	8
		SUBTOTAL =		**58.30**			**40**
		SEASON TOTAL =		**81.72**			**84**
2018-19							
18	OCTOBER	83	25	0.00	-	-	-
18	NOVEMBER	59	-1	9.50	11/16/2018	5.8	7
18	DECEMBER	47	9	1.40	12/16/2018	0.5	8
		SUBTOTAL =		**10.90**			**15**
18	JANUARY	49	-9	27.70	1/20/19	14.9	13
18	FEBRUARY	56	-14	16.00	2/12/19	4.4	9
18	MARCH	66	3	3.20	3/4/19	2.1	5
18	APRIL	75	20	2.10	4/6/19	2.1	2
		SUBTOTAL =		**49.00**			**29**
		SEASON TOTAL =		**59.90**			**44**
2019							
19	OCTOBER	74	31	0.00	-	-	-
19	NOVEMBER	69	8	8.00	11/19/19	5.2	4
19	DECEMBER	48	-1	22.50	12/2/19	11.2	14
		SUBTOTAL =		**30.50**			**18**
20	JANUARY	61	-4	10.56	1/19/20	5.1	16
20	FEBRUARY	56	-8	18.58	2/10/20	3.3	11
20	MARCH	71	13	10.23	3/24/20	5.2	17
20	APRIL	66	28	T	-	T	5
		SUBTOTAL =		**39.37**			**49**
		SEASON TOTAL =		**69.87**			**67**
2020							
20	OCTOBER	76	22	T	10/30/20	T	1
20	NOVEMBER	73	16	T	-	T	2
20	DECEMBER	61	-6	32.00	12/17/20	37.7	11
		SUBTOTAL =		**32.00**			**14**

--- = Rain, melted snow w/ temperatures near freezing
T = Trace Amount Recorded
* = Occurences resulting from low temperatures w/ rain, melted snow

II. BUILDINGS AND GROUNDS DIVISION

A. 2020 BUILDINGS AND GROUNDS ANNUAL SUMMARY

Buildings and Grounds Division's primary mission is to ensure a safe, quality work environment for our employees and the public that utilize county services.

Projects:

- Completion of the New Public Safety Facility
- Rehabilitation of the 100,000 gal. water pedesphere at the County Farm Road Complex**.** The entire pedesphere was sandblasted. Structural, corrosion, piping and electrical repairs/improvements were completed. The entire tower was primed and painted inside and out. The foundation and anchor system was improved. A ladder climbing safety system was added. A water mixer was installed to prevent water freezing.
- Remodeled the Fire Training Center after use as a Code Blue Shelter
- Removal of two high-density shelving units in Bldg. 2
- Sewer line repair basement Bldg. 1
- Jail tub roof repairs
- Animal Shelter sound panels installed
- Remodel in Human Resources
- Replacement of boilers in Central Garage
- Replacement of 2 air compressors in the Central Garage
- Generator replacements for OES at Milton, Providence, McGregor and Spruce Mtn. cell sites
- Remodel in Bldg. 5 basement
- Asbestos Abatement in Bldg. 2 - 2nd floor
- Repairs & Repainted front of jail and prepped the exterior building for the new sign.
- Moving of SCBA compressor from Saratoga to the new Public Safety Facility
- Multiple parking lot light repairs
- Installation of over 50 TV's in the new PSF
- Custom desk for Sheriff Administrative Assistant
- Custom map cases for the Historian
- Partial LED light change over on Batchellerville Bridge
- Design and development of new maintenance request system with assistance from IT
- Wired the new storage garage at Zim Smith Trail
- Set up the COVID Call Center in Bldg. 4
- Moved Probation, Public Health, OES and Sheriff's Departments into the new PSF
- Moved COVID call center to Public Health at the new Public Safety Facility
- Assisted Public Health with Flu Shot POD and Food Distribution in Corinth
- Assisted Public Health with Covid-19 Vaccine Distribution events
- Remodeled old OES space for DA and Conflict Defender offices
- Installed four new hot water tank replacements at Jail
- Moved over 4000 boxes to and from storage and confidential burn bin
- Assisted with Thanksgiving Food Distribution for Salvation Army in Corinth

- Remodeling of old Probation space for DSS Administration
- Multiple water pumps replaced in the Jail
- Start remodel work in Jail Administration area
- Rehabbed the shed near the water tower
- Made multiple Plexiglas shields for County Departments for COVID distancing
- Installed a new door at the Animal Shelter
- Prepped Woodlawn Ave. Building for SOS
- Multiple office moves and office painting at Mental Health
- Rebuilt railings on stairs by Bldg. 1
- Patching of Rec Yards at Jail
- Over 50 wooden Partitions made for COVID distancing
- Serviced all County HVAC equipment as required.
- Serviced the AWOS equipment at Saratoga County Airport.
- Serviced Saratoga County Airport runway, taxiway and guidance lighting.
- Quarterly fire drills, were not done due to COVID-19.
- Maintained all building fire extinguishers.

PREVENTATIVE MAINTENANCE COMPLETED ON A REGULAR BASIS

EQUIPMENT COUNTY WIDE	UNITS
♦ AHU's – Air Handler Units	56
♦ Boilers	21
♦ Air Conditioners	13
♦ Fan Coil Units	490
♦ RAF's – Return Air Fans	6
♦ RTU's – Roof Top Units	40
♦ MAU's – Mixed Air Units	4
♦ Infra-Red Heat Systems	2
♦ Unit Heaters	61
♦ Exhaust Units	45
♦ Heat Pumps	17
♦ Tank-less Hot Water Heaters	4
♦ Cooling Towers	4

EQUIPMENT MONTHLY CHECKS	
♦ Emergency Lights	322
♦ Time Clocks (Punch Style)	15
♦ Kronos (Swipe Card Style)	26
♦ Fire Extinguishers	218

EQUIPMENT WEEKLY CHECKS

- Emergency Generators 27

SUPPORT SERVICES

- 47.94 Tons of confidential files were removed from offices and destroyed
- Over 4,000 Boxes moved from offices to storage areas
- Assisted Central Stores with deliveries when needed

B. 2021 GOALS FOR BUILDINGS AND GROUNDS

BUILDINGS

- Replace 5 Air Handler Units Building's # 1 & 3.

AIRPORT

- Complete the installation the new perimeter fencing
- Complete the Off-site Habitat Mitigation Projects
- Complete the construction of the new partial parallel taxiway.
- Begin Phase 1, Acquiring off site easements, for future obstruction removal.
- Acquire NYSDOT Funding for and complete the installation of new airfield markings.
- Complete Pavement Management Program

All goals are in accordance with the 2021 Capital Plan.

C. SARATOGA COUNTY FACILITIES SPACE UTILIZATION REPORT

Distribution of Gross Floor Area by Department (Updated 9/1/20)

FACILITY		AREA (Sq. ft.)
MUNICIPAL CENTER		
Building #1	43,429	
Building #2	31,522	
Building #3	30,148	
Building #4	32,919	
Old Emergency Operations Center	9,820	(Included in bldg. # 2)
Total:		138,018
Building # 5 (FACILITIES BUILDING)		39,974
SERVICES BUILDING		46,977
WOODLAWN AVENUE BUILDING		10,946
COUNTY FARM		
Animal Shelter	24,554	
Fire Training	3,120	
Jail	102,500	
Emergency Services / Sheriff Pole Barn	3,696	
Paul Lent Public Safety Building	64,140	
D.P.W. Facility	115,254	
Total:		313,264
AIRPORT		37,084
RADIO TOWERS		
Clifton Park	360	
Fraker Mt.	360	
Halfmoon	420	
Lake Luzerne	360	
McGregor	420	
Milton (Jail)	420	
Providence Tower	420	
Lakeview	220	
Stillwater	420	
Spruce Mt. (Radio Bldg. & Garage)	855	
Total:		4,255
OLD NORTH GARAGE		1,776
NEW NORTH GARAGE		6,000
MILTON RECYCLING CENTER		1,100
TOTAL GROSS FLOOR AREA		**599,394 (Sq. ft.)**

SARATOGA COUNTY FACILITIES SPACE UTILIZATION REPORT - CONTINUED

Distribution of Gross Floor Area by Lessee

FACILITY		AREA (Sq. ft.)
Judges	4,069	
Mental Health	17,225	
DMV	5,855	
Veterans	1,980	
Total:		**29,129 (Sq. ft.)**

Distribution of Acreage by Department or Lessee

FACILITY	ACREAGE
Airport	514.18
Other Property Adj. to the Airport owned by S.C.	43.65
DPW (North Garage, Rt. 29 Solid Waste Mgmt. Facility (Stump Dump) And 15.73 acres of the former landfill property retained by the Sewer District for future development)	45.95
County Park, Sacandaga	40.00+
County Farm (DPW Garage, Jail, Animal Shelter, Fire Training Center, Paul Lent Public Safety Building)	117.07
Woodlawn	1.00
Facilities Building	1.00
Municipal Center - Complex	6.28
Services Building	8.16
TOTAL ACREAGE	**786.97+**

III. SOLID WASTE DIVISION

A. Recycling

Privatization of Recycling Centers and Single Stream Collection

In 2020, Saratoga County completed the second year of a four year agreement with County Waste and Recycling Services, Inc. for the Transportation, Processing and Recovery of Single Stream Recyclables and Scrap Metal from five (5) County Recycling Collection Centers and the Town of Edinburg. County Waste also agreed to renew that agreement for 2021, which was the second of (3) possible (1) year renewals. The County also continued intermunicipal agreements with the respective Towns and City where the recycling centers exist including: Clifton Park, Moreau, Corinth, and Saratoga Springs for their management of the collection of recyclables. Saratoga County continues to attend and manage the Milton Recycling Center. Saratoga County will also continue to collect appliances containing refrigerants (includes having the refrigerant removed by a local vendor), automotive batteries and propane tanks at all the County Centers. Saratoga County significantly reduced operational costs through these changes.

Recycling Tonnage - In 2015, all recycling centers began collecting single stream recycling. They continued to collect scrap metal, automotive batteries and propane tanks.

All Centers 2020:

♦ Single Stream Recycling	2,414	Tons
♦ Scrap Metal	1,339	Tons
♦ Automotive Batteries	7.79	Tons
♦ Propane Tanks (Large 20 lbs. and bigger cylinders)	812	ea.
(Small 1 lb. cylinders)	3,062	ea.
♦ Refrigerators and Freezers	1,313	ea.
♦ Air Conditioners, Dehumidifiers and Water Coolers	2,352	ea.

Adopt-A-Roadside – The Saratoga County Adopt-A-Roadside Program continues to play an important role in keeping our roads clean. In 2020, 44 community organizations actively participated in the program. Our D.P.W. provides orange garbage bags and safety vests to all participants in addition to picking up the collected debris. Approximately 70 miles of Saratoga County roadside was cleaned this past year through this volunteer effort.

End of 2020 Annual Report.