

## PERSONNEL NEWS

Over the past few several months a number of letters and notes of commendation have been received from agencies acknowledging the efforts of many of our staff that we thought should be shared:

- ◆ Roger Dionne and Tim Davis received a Certificate of Appreciation from the Adjutant General for their “exceptional meritorious achievement during the development, design, and construction phases of New Hampshire’s Joint Force Headquarters. “Through the professionalism and hard work of your entire team, the project was completed on time and on budget.”
- ◆ **Dina Boles** received high commendation from colleagues for her research efforts in assisting with the recent Mt. Washington Wastewater Treatment project.
- ◆ **Dave Goulet**, Project Manager for the NHDOT Toll Plazas Electric & HVAC Project. Through Dave’s efforts, combined with those of the Contractor, Palmer & Sicard, energy conservation earned the agency “Excellence In Energy Efficiency” Award.
- ◆ NH National Guard expressed their appreciation for the work by **Dave Goulet, Mary Kibbee-Lee, and Jobie Chase**, “your staff, as always have been and continue to be, extremely helpful and professional.”
- ◆ Several contractors and consultants have indicated that **Brenda Thomas** has been instrumental in resolving timely payment matters to their delight.
- ◆ Congratulations goes to **Brenda Thomas** for completing the “Advanced Leader Bronze” level in Toastmasters International. If you are seeking a speaking professional, Brenda is the person.
- ◆ **Robert Smith & Chris Sheehan** were praised for their work on the M&S Building. Revenue commented, they “have never worked with such a dedicated team of key State personnel..”
- ◆ Congratulations to for **Beverly Kowalik** for successfully passing her Professional Engineers’ Exam in the area of Mechanical Engineering. This is quite an accomplishment.
- ◆ **Scott Carri**, Engineering Technician recently achieved certification for Septic Design and Installation. Good Job!
- ◆ **Gordon Graham** received high praise from the Dept. of Corrections, “I want to take this time to thank you for your quick, professional response by going to LRF with me to look at some possible safety concerns at the Peterson Building on Wednesday afternoon. As usual you and the other staff at Public Works are always willing to help when needed and I appreciate that. Thanks again!”

It is because of our employees that we are able to manage projects effectively and provide good customer service to Using Agencies, Contractors, and Consultants.



Comm. College—Claremont Library

**\*\*\* Special Projects \*\*\***

Many times project managers provide on the spot assistance to agencies as needed. **Gordon Graham** worked with DOT on the Long Bridge in Portsmouth, due to serious electrical problems. Gordon was able to locate the appropriate cabling needed to make repairs and bring the bridge operational again on December 15, 2006, after being closed for 45 days.



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[ Left: Walker Building Project—Fruit Street, Concord]

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# Public Works News

## Readiness Center/Civil Support Team Completed

The NH Army Reserve National Guard Readiness Center and Civil Support Team Building located at the State Military Reservation in Concord, was constructed between September 2004 and December 2007 at a total cost of \$14.8 million by Harvey Construction Corporation using a three-phase approach.

The entire building, renovations and additions, was designed by Oak Point Associates with a LEED-certified approach of the US Green Building Council. Certification was achieved as a LEEDS Silver facility. Specific attention was paid to energy and green-design initiatives throughout the design and construction process for the facility. It is one of the few facilities in the State that is employing geothermal as its main heating and cooling energy source. In addition, specific attention was focused on using earth-friendly materials throughout the building; from flooring adhesive with no VOC’s to recycled materials used in the carpets. A concerted effort was made to use local services in the selection of all building materials. The design also pays attention to the use of natural lighting and water conservation through the use of no-flow toilets.

The Readiness Center serves a peacetime mission of the

JHQ STARC (Joint Headquarters, State Area Command, New Hampshire National Guard) by supplying space for personnel to perform the necessary tasks that will improve readiness posture and improve security protection for the National Guard. The Civil Support Team addition is a new mission of the NH National Guard created to provide the local, state and federal government with a ready team to assist first responders in chemical and biological hazards determination and decontamination operations. The additional building space houses the necessary equipment and personnel to complete this function.

Phase 1 of the project renovated 28,500 existing sq. ft. of Building K, constructed in 1958, into the Readiness Center and added an additional 36,711 sq. ft. of space. In addition, site work consisted of water, sewer, and electrical connections, and the storm water drainage system.



Phase II of the project consisted of the renovation of the 1973 portion of Building K, the demolition of the 1974 portion of the building, construction of the 36,711 sq. ft. addition, construction of a guard shack, and site work consisting of the reclamation of the parking lots, sidewalks, entrance drive, fencing, and landscaping.

Under Phase III, Harvey Construction, utilizing a Construction Management approach as a time and cost savings measure, constructed 17,000 square feet of space for the Civil Support Team Ready Building. The new building was placed adjacent to, and connected with, the Readiness Center, which required extensive coordination and timing by the State and the contractor.

Oak Point Associates was the design team for the Readiness Center, which was completed in the Fall 2007.



Claiming to be “Home of the World’s Worst Weather”, the Sherman Adams Building (SAB) in the State Park at the top of Mount Washington is open to visitors all year. Wastewater from the SAB is currently directed to an in-ground sand filter followed by an ultraviolet (UV) treatment unit, both of which are fraught with operational malfunctions dating back to the first winter of operations (1990’s). Below-freezing summit temperatures from September to July render the existing treatment system inoperable for nine months of the year. During this time untreated wastewater is held in “tight” tanks of limited capacity inside the SAB until July when the existing system thaws and becomes operable. In addition to the freezing of piping and treatment components, the wastewater facilities have suffered numerous structural and operational failures due to the nature of the existing system, the extreme cold conditions at the site, the frost-related heaving of soils, the failure of pumps and siphons, etc.

The proposed all-season wastewater treatment facilities are currently in the design and permitting phases of the design/build project. The new systems will address all of the shortcomings of the existing system and will operate all year long, in all weather conditions, providing a high level of wastewater treatment. The treatment works will be housed in a heated, insulated, arctic-type enclosure to maintain optimum temperatures for the treatment works, irrespective of exterior weather conditions. Arctic-type (insulated) exterior piping will be heated to prevent freezing. Flexible piping connections to the treatment works in the arctic enclosure will allow for movement due to the freezing and thawing of foundation materials. This contract will also address the replacement of a frozen sanitary sewer pipe just outside the SAB. Construction is proposed for July 2009 when summit soils thaw.

Park personnel are very anxious to get the new systems operational. Until that happens, they have instituted strict measures to limit the consumption of water and the corresponding volume of wastewater that must be stored. Water-saving units and commodes, strict waste conservation by full-time Park personnel, interns and visitors, etc., have been incorporated into daily operations at the SAB. Despite these measures, management of the increasing volume of wastewater is time-consuming, and occasionally sanitarily ineffective. The target date for the new system to be operational is the Fall of 2009.



## More Project Highlights

**Roger Dionne**, Civil Department Head, has proudly finished the DOT and Department of Safety’s Emergency Operation Center project. Roger has worked with Eckman Construction, Wes Colby (Dept. of Safety), Peter Denuette (911 Director), and David Rodrigue (Dept. of Transportation) to bring this high-tech communications project to fruition.

**Jeff Shute**, Project Manger, has seen the completion of the Youth Development Center, Manchester, in 2006.



Watch our website, for updated projects pictures and highlights. <http://admin.state.nh.us/PWpurchasing/PublicWorks/PW>.



## Archives Building Complete

Most state employees are painfully aware that the Archive Building was in need of expansion. State agencies have been self-storing records, eagerly awaiting the expansion that could accommodate additional crucial records.

Construction began in April 2005, upon Governor & Council approval of Meridian Construction’s contract for this project, which was a \$3,182,000 capital appropriation.

Construction was completed in June 2007 and the Secretary of State is now accepting your archive storage requests.

Dana Abbott, Project Manager and Christopher Sheehan, Clerk of the Works, both BPW employees, spent countless hours coordinating with contractors and consultants, and the Secre-

tary of State employees to complete the capital improvement project.

This new renovation houses 35,000 square feet of storage and a new records viewing room.



All of us would like to thank Brian Buford and his staff for all their help in coordinating the receipt and retrieval of records.

## Medical & Surgical Bldg. Conversion to Revenue’s New Home

Similar to the Brown & Walker Building renovations on the Governor Hugh Gallen State Office Park South campus, the former 55,000 square foot Medical and Surgical building has been renovated for office space. A newly added courtyard completes the 70,000 four-story renovation.

This renovation comes as part of the Master Plan for redevelopment of the SOPS.

The Department of Revenue will reside in the newly renovated office and conference space, which was completed in the Fall of 2008.

This \$11.4 Million renovation and addition to the M & S resulted in an innovative consolidation for the Department of Revenue Operations. The original character of the building’s exterior has been enhanced,

along with making the building fully code compliant, ADA, accessible and energy efficient for functional office space.

This project was another example of how team efforts of contractor, consultants, state agencies, and the BPW on a Design/Build construction project can

result in a rewarding experience and successful completion.

SMRT Architecture, Engineering, Planning, Inc. was the Bridging Architect for this project. Eckman Construction was the Design/Build contractor. Project Manager: Robert Smith-Clerk: Chris Sheehan.



## PROJECT HIGHLIGHTS

### Mount Washington Electrification

The Bureau of Public Works, in collaboration with the Department of Resources and Economic Development (DRED), has advertised two contracts for installing the last leg of permanent utility power (from PSNH) to the summit of Mount Washington. Power for the summit buildings will come from a new underground electrical cable installed along the COG Railroad under a DRED contract in the summer of 2007. The Public Works contract includes the construction of a prefabricated building and installation of two generators, a transformer and electrical switchgear. The prefabricated building will be located next to the Sherman Adams Building and will feed the majority of the buildings on the summit. Power is currently provided by on-site diesel generators. The rough terrain and severe weather conditions create difficult conditions for the Contractor, making even the easiest tasks challenging. It is expected that the project will be completed in the summer of 2009. The construction cost of the Public Works project is \$839,000.

Contractor: Cianbro Corporation  
 Consultant: Stantec  
 Agency: DRED, Tom Mansfield, R.A.  
 BPW Project Manager: Gordon Graham, P.E



### New Wellness Center & Renovations to Cafeteria - Nashua Community College

In January 2007, the Bureau of Public Works entered into a design/build contract with Seppala Construction for \$7,385,000.00 to construct a new Wellness Center plus renovations to the cafeteria at the NH Community Technical College (NHCTC) in Nashua. The contract included three phases of work. Phase One included the design and construction of air conditioning for classrooms for \$750,000. Phase Two included the design and construction of a 40,000 square-foot Wellness Center with a gymnasium, program rooms, cafeteria and ADA elevator for \$6,385,000. Phase Three included the design and construction of renovations to the facility's existing cafeteria at a cost of \$250,000. Weekly design and construction oversight meetings have been held since January 2007 to design and construct all three phases, which are now complete.

Contractor: Seppala Construction  
 Consultant: Dennis Mires, P.A., The Architects  
 Agency: Nashua Community College, Lucille Jordan and Scott Bievenue  
 BPW Project Manager: David Goulet  
 BPW Clerk of the Works: Scott Lebrun



### McAuliffe— Shepard Discovery Center

The new McAuliffe – Shepard Discovery Center is a 32,000 square foot addition to the existing Christa McAuliffe Planetarium. The addition will house a space museum and exhibit space along with a store, small café and gathering space for large groups. It will also have an observatory and NASA resource center for teachers. Also included is some renovation to the existing facility.

The addition is named after New Hampshire's Alan B Shepard, the first American astronaut to journey into space. The new facility includes an area called the Redstone Plaza, which is highlighted by the 88 foot tall replica of the Redstone Rocket used to send Alan Shepard into space.

The new addition is scheduled to be completed in mid-January of 2009 with the renovation of the existing Planetarium space to be completed in March.

Contractor: Bauen Corporation  
 Consultant: Dignard Architectural Services  
 Agency: McAuliffe Planetarium—Jeanne Gerulskis  
 BPW Project Manager: Jeffrey Shute  
 Clerks: Paul Pfenning and James Pero.



### Bus Terminal and Maintenance Building Near Completion

The Bureau of Public Works has worked with the Department of Transportation (NHDOT) to design and construct several bus terminals and maintenance buildings. Construction nears completion on the new \$7 million bus terminal, associated maintenance and storage buildings and expanded parking lots in Londonderry, NH, as well as the \$7 million, I-93 Exit 2, bus terminal. These facilities are essential to NH DOT's program to expand bus service between Southern NH and Massachusetts.

Greg Goucher, Project Manager with BPW and Scott LeBrun, Clerk of the Works, have been the common threads overseeing the design and construction of these facilities.

The bus terminals are modeled on the same plan as the bus facility in Dover, NH; this facility has now been in operation for several months and has received great reviews for its excellent design and efficiencies of operation.



Londonderry Terminal



Londonderry Maintenance

Exit 2 Salem Terminal (right)



## The Purpose of the Public Works Newsletter

**If you have suggestions or questions you would like to see addressed in our newsletter—please call Mark Whittemore (271-3516) or Mary Kibbee-Lee (271-1111).**

Welcome to our NEW Bureau newsletter! Our newsletter will be just one avenue to communicate with Using Agencies, Contractors, and Consultants. It will allow us to showcase capital and maintenance projects under design and/or construction, as well as new initiatives the Bureau is involved in. In this day of energy awareness, several projects in this edition highlight the efforts being made in this regard.

Just to give you a brief overview of who we are and what we do in Public Works:

The Bureau of Public Works Design and Construction (BPW) is under the Department of Administrative Services as of July 2005. BPW's mission is to provide engineering services to state agencies implementing the Governor's Capital Improvement

Program. The Bureau is mandated to be involved in any State of NH project, which exceeds \$25,000 (RSA 21-I:84). Projects less than \$25,000 may only need review and coordination with BPW. Work Request forms, solicitations for consultant interest, instructions, other forms and crucial information are available on our website.

Each project that BPW manages will involve one or more of our disciplines; civil, architectural, mechanical and electrical. Most projects will cross over several of the disciplines and require close coordination. In addition, our construction section is responsible for coordinating the construction oversight, through the Clerk of the Works on various projects. Agencies we work for should also be reminded that we are mandated by law to

charge agencies for the time BPW spends providing design and construction services for all projects except those that are general funded.

If you wish a subject covered or a question answered, please feel free to contact us at 271-3516.

BPW's website is available under the NH.gov directory (<http://admin.state.nh.us/purchasing/Public Works/PW>).

**Mark D. Whittemore, Administrator**



## Green Corner - "Sustained Thinking on Sustainable Design"

Everywhere you turn these days the focus is on saving energy and sustainable design, and rightfully so. Projects being guided by Public Works have been no exception. Throughout this newsletter, please note the many efforts being made to contribute to the preservation of New Hampshire's environment and natural resources. Our cover story highlights the LEED's Silver Readiness Center constructed for the Adjutant General's Department; permeable pavement was used at the I-93 Exit 5 bus facility; the renovated Medical and Surgical Building (M&S) is an excellent example of preservation and reuse of an old building on the Governor Hugh Gallen State Office Park grounds. The M&S

Building was rapidly deteriorating but was salvaged in time so that it now serves as an excellent, fully renovated facility.

The Bureau has also been proactive by implementing recycling specifications in all projects over the last year, where practical. Numerous mechanical contracts have been bid replacing old, inefficient boilers, chillers, etc. with newer, high-efficiency equipment. We have provided design assistance in pursuing the installation of a new, environmentally sound wastewater treatment facility on the top of Mount Washington.

All these efforts, and many more not listed, highlight our ongoing efforts to improve the energy efficiency in running the

State's facilities, as well as preserve the State's environment. In the coming year, Public Works seeks to be even more proactive in pursuing responsible, sustainable design initiatives. The message we will be continuing to promote, is "Sustained Thinking on Sustainable Design."



## Capital Budget Projects—Present Program Now in Full Swing. Future Capital Program Now Being Developed.

The 2008—2009 Capital Budget projects are in full swing. The half-way mark for the current Capital Program was reached in July and Public Works has been very successful in progressing the many projects under our management. There are 58 projects the Bureau is working on connected with the '07 Capital Budget (HB25).

It is anticipated that, by January 2009, all active Capital Projects will have been advertised for bid. Approximately 80% of these projects were bid by July 2008. Several remaining projects are on hold while funding, scope or other issues are being resolved by the Using Agencies. Though Project advertising dates are dependent on these Agency issues being resolved, Public Works' goal is to have all projects bid by this coming Spring.

BPW provides monthly updates on the status of projects. This information is available at: <http://admin.state.nh.us/purchasing/Public Works/PW>. Quarterly status reports are also provided to the Capital Budget Overview Committee. Each Agency is responsible for providing the quarterly updates of financial information, through the Commissioner's Office.

The 2010 - 2011 Capital Budget process began in April. All Agency requests were submitted to the Governor by May 31, 2008. Hearings were held in June and the Governor selected projects for further study. BPW has had a very busy 2 months meeting with Agencies to review their proposals and refine the scope of work and estimates for these projects as necessary. BPW has assembled the 2009 Capital Budget Program and it was submitted to the Governor by December 1, 2008. The Governor will subsequently submit his proposed Capital Budget to the general court by February 15, 2009.

