

Facility Name	City	State	Problem	Solution	Service Performed	Instrument Used 1	Instrument Used 2	Instrument Used 3	Instrument Used 4	Instrument Used 5	Instrument Used 6
1 Facility Name	City	ST	A brief description of the problem. This should be written in a way that the website visitor can identify with it and possibly even say, "yeah, me too"	A brief description of the problem. This should show the website visitor how your team attacks a challenge head on and provides solutions.		Name of Tool Used (so we can hyperlink back to the description of the instrument in the Instrument section)					
2 Merck Pharmaceuticals Co.	Lansdale, PA	PA	Employees in a 260,000sq.ft. training facility complained of uncomfortable space conditions during the winter months. We were commissioned to log space and correlating weather conditions and issue a report.	We installed humidity and temperature sensors throughout the building and trend-logged conditions for one month. A report was issued detailing findings and making recommendations.	System Evaluation and Repair > Air Dist System Eval	Datalogger	4-20mA Temperature Probe				
3 One Penn Square West	Philadelphia	PA	The building is a 30-story high-rise in center city Philadelphia, PA. The building engineer wanted to know his actual condenser water capacity compared to his cooling tower capacity.	We first established the condenser water requirements for the building equipment. This was compared with the rated capacity of the cooling tower, and then we measured the actual performance of the system. A report of findings and recommendations was then issued.	System Evaluation and Repair > Hydronic System Eval	Transient Time Flowmeter	Handheld Ammeter				
4 Kennetex Incorporated	Kennett Square	PA	Kennetex was operating two autoclaves on a 100HP steam boiler. They wanted to know if there was any capacity left in the boiler to expand the autoclave system.	We installed a 3" vortex steam meter and datalogger to document the steam demand of the existing autoclaves. A report was issued detailing findings and recommendations.	System Evaluation and Repair > Hydronic System Eval	Vortex Steam Flow Meter	Datalogger				
5 Toll Brothers, Inc	Huntingdon Valley	PA	The HVAC systems of Toll Brothers Corporate Offices were not functioning properly and were consuming too much energy.	We did some troubleshooting of the HVAC systems and evaluated utility bills. A report was issued detailing findings and recommendations.	System Evaluation and Repair > Hydronic System Eval	Transient Time Flowmeter	Electronic Temp/Humidity Probe				
6 Worthington Steel	Decatur	AL	The 16,000HP steel mill motors were overheating and causing a lot of down time in the plant.	We took airflow and pressure readings to evaluate the performance of the motor cooling system and determine the cause of the motor overheating.	System Evaluation and Repair > Air Dist System Eval	Inclined Fluid Manometer	Pitot Tubes				
7 Drexel University	Philadelphia	PA	This project occurred in a five story, 70,000sq.ft. office building. Drexel wanted to know how much spare capacity there was in the condenser water system.	Condenser water flow and temperature readings were taken to determine existing system load. This was compared against the cooling tower capacity to see if the building heat pump system could be expanded.	System Evaluation and Repair > Hydronic System Eval	Transient Time Flowmeter	Electronic Temp/Humidity Probe				
8 Outpatient Surgery Center	Salem County	NJ	The HVAC system was functioning so poorly, causing much down time and many patient cancellations.	We reviewed the design drawings, equipment selection and calculated the building cooling load. Flaws in the design and installation were discovered and recommendations for improvements were made.	System Evaluation and Repair > Air Dist System Eval	Electronic Air Measuring Flowhood	Electronic Temp/Humidity Probe				
9 Drexel University	Philadelphia	PA	Drexel wanted to re-activate an old computer room but they didn't know the capacity and condition of existing electrical and mechanical systems.	We reviewed and evaluated the condition and capacity of the electrical and mechanical systems and issued a report of findings and recommendations.	System Evaluation and Repair > Air Dist System Eval	Electronic Air Measuring Flowhood	Electronic Temp/Humidity Probe	Handheld Ammeter			
10 Drexel University	Philadelphia	PA	Equipment loads were increased in a computer room which led to performance issues with the mechanical and electrical systems.	We evaluated the performance of the electrical and mechanical systems and issued a report of findings and recommendations.	System Evaluation and Repair > Air Dist System Eval	Electronic Air Measuring Flowhood	Electronic Temp/Humidity Probe	Handheld Ammeter			
11 Nemours Brandywine Building	Wilmington	DE	The building had an unexplainably high summer steam usage. We were commissioned to investigate the problem.	During the investigation we discovered a programming error accounting for half a million dollars worth of faulty billing over a five-year period.	Energy Conservation Studies > Utility Evaluation	Process Calibrator					
12 Surety Title Building	Marlton	NJ	This project occurred in a two story, 25,000sq.ft. office building. The building was new but the HVAC system was not providing adequate cooling.	We placed temperature logging sensors in each of the supply and return ducts for ten rooftop air conditioners. The log revealed unusually high supply air temperatures and a fundamental HVAC system design flaw.	System Evaluation and Repair > Air Dist System Eval	HOBO Temp/Humidity Dataloggers	Electronic Air Measuring Flowhood				
13 Genard's Building	Plymouth Mtg	PA	The building and all of the systems were new but the heating system was not working properly. The building was very cold and virtually unoccupiable.	We uncovered the system problems and worked with the equipment manufacturer, controls contractor, and design engineer to establish proper setpoints for the rooftop equipment and VAV boxes.	Construction Services > Commissioning	Electronic Air Measuring Flowhood					
14 Rancocas Friends Academy	Westampton Township	NJ	The building and all of the systems were new but the heating system was not working properly. The building was very cold and virtually unoccupiable.	Progressive discovered that the system lacked proper controls and uncovered some installation flaws.	Construction Services > Commissioning	Electronic Air Measuring Flowhood					
15 Arrow International	Chihuahua	Mexico	Arrow manufactures medical equipment and built a new clean production facility.	Progressive was initially hired to provide commissioning and validation services. Significant issues with the design and construction of the HVAC systems led to Progressive taking over project management of the HVAC installation. We performed a substantial redesign of the mechanical systems as well as a new sequence of operation for the controls.	Construction Services > Commissioning	Electronic Air Measuring Flowhood	Handheld Digital Manometer	Pitot Tubes			
16 Abington Properties	Montgomeryville	PA	The HVAC systems were performing very poorly in this two-story office building.	Progressive commissioned the rooftop and VAV systems to provide acceptable comfort levels. Many equipment failures, installation flaws, etc... were discovered during the commissioning phase and necessary corrections were made. The result was greatly improved comfort levels and a more energy efficient system.	Construction Services > Commissioning	Electronic Air Measuring Flowhood	Handheld Digital Manometer				
17 LEAP Academy	Camden	NJ	Progressive hired to investigate condensation problems in the return ceiling plenums.	We discovered that a poorly conceived and designed HVAC system was the cause for problems well beyond the condensation issue. The rooftop units and VAV boxes were commissioned and a new operating sequence programmed to address the problems.	Construction Services > Commissioning	Electronic Air Measuring Flowhood	Handheld Digital Manometer	Pitot Tubes			
18 University MRI	Philadelphia	PA	The HVAC systems were performing very poorly, leading to 95% humidity levels and the shutdown of scanners.	Progressive evaluated the system performance and implemented a new controls strategy to correct the problems.	System Evaluation and Repair > Retro-Commissioning	Electronic Temp/Humidity Probe	Electronic Air Measuring Flowhood				
19 Benchmark School	Media	PA	The school was experiencing problems with the HVAC system in the auditorium.	Progressive discovered a substandard controls system as the cause. A new controls scheme was designed and we installed the controls.	System Evaluation and Repair > Retro-Commissioning	Handheld Ammeter					
20 NBC 10	Bala Cynwyd	PA	The fuel oil system for NBC was losing its prime and providing insufficient fuel for the boilers and emergency generators.	Progressive discovered a design flaw in the piping system and implemented a correction. We supervised the remedial work and performed system start-up services.	System Evaluation and Repair > Retro-Commissioning	0-60 PSI Gauges					

21	J.P. Mascaro	Audobon	PA	The HVAC system for Mascaro's corporate offices was performing very poorly and consuming an enormous amount of energy.	Progressive evaluated the system by measuring the chilled water flow, condenser water flow, cooling tower performance, equipment power consumption, etc.... and compiled the results in a report of findings and recommendations	Energy Conservation Studies > Equipment Optimization	Power Datalogger	Handheld Ammeter	HOBO Temp/Humidity Dataloggers	Temperature Button Dataloggers	Datalogger	Electronic Air Measuring Flowhood
22	Willow Grove Air Reserve Facility	Willow Grove	PA		Design of an air conditioning system for a five thousand square foot auditorium. Utilized two seven and one-half ton rooftop direct expansion air conditioning units.	Design and Engineering > HVAC						
23	Kraft-Dairy Group	Philadelphia	PA		Evaluated ammonia refrigerant system used in ice cream manufacturing. System utilized both a vapor and flooded evaporator. Also evaluated the economic feasibility of replacing electrical motors with natural gas driven reciprocating engines to power compressors and reduce electrical demand. Analysis reviewed the ammonia distribution system capacity and pipe sizing.	Design and Engineering > Mechanical						
24	Lukens Steel Company	Coatesville	PA		Variable speed drives on VAV air handling units recommended by another engineering firm for energy conservation did not realize projected savings. Evaluated one hundred horse power motors and drives to identify operating procedures that limited savings.	Energy Conservation Studies > Utility Evaluation						
25	Graduate Hospital	Philadelphia	PA		Evaluated and repaired the air conditioning system for the Nuclear Medicine and Nursing Offices. Repairs consisted of installing VAV boxes and upgrading controls.	System Evaluation and Repair > Air Dist System Eval						
26	Graduate Hospital	Philadelphia	PA		Surveyed and documented mechanical heating and cooling systems, including chilled, condenser, dual temperature, and domestic water systems, and air systems serving operating rooms, patient rooms, and treatment areas. Prepared drawings correlating building areas to air handling units and isometrics showing piping.	Design and Engineering > Piping						
27	Osteopathic Hospital	Philadelphia	PA		Evaluated various options for the replacement of large chillers. Project parameters included installation costs, operating costs, and CFC considerations. Options included gas fired chiller-heater, absorption chillers and various electrical chillers.	System Evaluation and Repair > Hydronic System Eval						
28	University of Delaware	Wilmington	DE		Evaluated heating and cooling systems, electrical monitoring system, and co-generation of seven university buildings. Evaluated construction costs, energy savings, and projected pay-backs. Buildings included Smith, Furnel, Student Center, Pencader, and Rodney.	System Evaluation and Repair > Air Dist System Eval						
29	Riviera Hotel and Casino	Las Vegas	NV		Researched the possibility of combining two central chilled water systems to optimize performance. Also evaluated a condenser water system and an emergency electrical generator.	System Evaluation and Repair > Hydronic System Eval						
30	Sterling-Winthrop	Upper Providence Township	PA		Designed and constructed two controlled climate laboratories. A design-build venture with Herman Goldner Co. and Paul Restall Associates.	Construction Services > Design-Build						
31	Bryn Mawr College	Bryn Mawr	PA		Evaluated a kitchen exhaust system to provide proper heating and ventilation.	System Evaluation and Repair > Air Dist System Eval						
32	GMH Management Inc.	King of Prussia	PA		Evaluated the heat pump condenser water system at 1150 Berkshire Blvd. Reading PA	System Evaluation and Repair > Hydronic System Eval						
33	Bryn Mawr College	Bryn Mawr	PA		Designed a heating and cooling system to renovate rat laboratory. Project included an evaluation of energy conservation equipment and installation of an air to air heat exchanger.	Design and Engineering > HVAC						
34	Girard Hospital	Philadelphia	PA		Evaluated HVAC systems in three buildings, and analyzed the economic feasibility of installing a DDC building automation system to reduce electrical consumption.	Energy Conservation Studies > System Optimization						
35	Bryn Mawr College	Bryn Mawr	PA		Surveyed six boiler rooms and produced mechanical drawings which were submitted to Pennsylvania Department of Labor and Industry for approval.	Design and Engineering > Piping						
36	Delaware Valley HMO	Springfield	PA		Surveyed existing building HVAC system and developed alternative schemes for renovating the central chilled water system and air handling units.							
37	American Philosophical Society	Philadelphia	PA		Evaluated the economics of a proposed building automation system for the American Philosophical Society.	Design and Engineering > Controls						
38	Herr Foods Inc.	Nottingham	PA		Installed two high pressure steam boilers that serve the food processing facility. A design build venture with the Herman Goldner Co.	Construction Services > Design-Build						
39	Kulicke & Soffa Industries	Horsham	PA		Installed four hot water boilers to expand the existing system. A design-build venture with the Herman Goldner Co.	Construction Services > Design-Build						
40	Limerick Power Station Graham M. Leitch Building	Limerick	PA		Investigated converting a local chilled water system to a central system in a five-story office building. Study included the conversion of a refrigerant compressor from a direct expansion unit to a heat-of-rejection chiller in which the waste heat was used by VAV reheats	System Evaluation and Repair > Hydronic System Eval						

41	Philadelphia Water Dept. Bio Solids Recycling Dept. Southwest Water Pollution Control Plant	Philadelphia	PA	Removed the central plant system and installed independent hot water boiler and chiller systems in a plant outbuilding. A design build venture with the Herman Goldner Co.	
42	Limerick Power Station Graham M. Leitch Building	Limerick	PA	Converted a local chilled water system to a central system in a five-story office building. Responsibilities included detailed piping and control drawings. A design-build venture with the Herman Goldner Co.	Construction Services > Design-Build
43	Limerick Power Station Main Control Room	Limerick	PA	Evaluated power plant control room airflow. Surveyed "O" listed ductwork, measured airflows, developed an air balance, and prepared a report with findings and recommendations.	System Evaluation and Repair > Air Dist System Eval
44	Christopher Dock Middle School	Souderton	PA	Designed and built a HVAC system for the Christopher Dock Middle School. A design-build venture with Norman G. Good Inc.	Construction Services > Design-Build
45	New York Museum of Modern Art Hamlin		PA	Performed start-up services for Turner Construction Company in a construction management capacity. Evaluated sixty-four low temperature (36 F) film storage vault and conditioning units. Each unit consisted of seventeen DDC points, humidifiers, SCR controlled electric reheat, defrost controls, etc. Developed check-out procedures, verification of operation, instrumentation calibration, and certification of performance.	Construction Services > Commissioning
46	North Eastern Treatment Ctr.			Design-build venture with the Herman Goldner Co. for the HVAC renovations to office areas.	Construction Services > Design-Build
47	Children's Hospital of Philadelphia	Philadelphia	PA	Renovated the seventh floor HVAC system at the Children's Hospital of Philadelphia. A design-build venture with Knecht Inc.	Construction Services > Design-Build
48	Modern Video Productions	Philadelphia	PA	Evaluated a tenant condenser water system with primary-secondary pumping problems.	System Evaluation and Repair > Hydronic System Eval
49	Container Research	Newtown Square	PA	Evaluated electrical service. Sized and performed an economic analysis of a power factor correction capacitor bank.	Design and Engineering > Electrical
50	Bryn Mawr College	Bryn Mawr	PA	Evaluated a fuel oil distribution system for multiple mechanical rooms and boilers.	System Evaluation and Repair > Hydronic System Eval
51	Double Tree Guest Suites	Philadelphia	PA	Evaluated ventilation, system capacity, building pressurization and maintenance of comfort conditions.	System Evaluation and Repair > Air Dist System Eval
52	Limerick Power Station Graham M. Leitch Building	Limerick	PA	Designed the support steel for a heat-of-rejection chiller and a rooftop cooling tower. Components include a 125 horse power compressor, evaporator shell, heat-of-rejection shell and condenser shell. A design-build venture with Herman Goldner Co.	Construction Services > Design-Build
53	Limerick Power Station Graham M. Leitch Building	Limerick	PA	The design of a system which took the waste heat from a heat-of-rejection chiller and used a plate & frame heat exchanger to provide hot domestic water. A design-build venture with Herman Goldner Co.	Construction Services > Design-Build
54	Willow Grove Air Reserve Facility (WGARF)	Willow Grove	PA	Design and analyze piping penetrations on existing fire tank to insure proper strength and integrity.	Design and Engineering > Piping
55	US Mint	Philadelphia	PA	Survey and evaluation of energy saving opportunities. Evaluations included HVAC retrofits and utilization of waste heat from annealing furnaces.	Energy Conservation Studies > Equipment Optimization
56	RP Scherer	St. Petersburg	FL	Design of low moisture caplet drying tunnel system. Systems included outside air, desiccant dryers, recirculation AHUs, ductwork, chilled water system and controls. Project was a Design/Build collaboration with Integrated Project Services, Incorporated (IPS).	Construction Services > Design-Build
57	Keebler Cookie Company	Middlesex	NJ	Documentation and evaluation of process systems such as chilled water, chilled ingredient water, compressed air and condenser cooling water system.	System Evaluation and Repair > Hydronic System Eval
58	Girard Hospital	Philadelphia	PA	Design and construction management of the DDC automation systems spoken of under item 55.	Construction Services > Project Management
59	Merck Co.	North Wales	PA	Documentation and evaluation of air handling equipment performance, laboratory air flow and building pressurization. Project involved sensitive clean spaces for the production of injectable drugs. All work was done according to GMP and FDA guidelines. Entering clean spaces required gowning training and RODAC certification.	System Evaluation and Repair > Air Dist System Eval
60	Brandywine Senior Care, Inc.	Moorestown	NJ	Review mechanical design of a nursing facility bid package to insure design quality presentation and constructability.	Design and Engineering > HVAC
61	United States Postal Service	Springfield	PA	Design of the HVAC system for a four-thousand square foot postal facility.	Design and Engineering > HVAC
62	United States Postal Service	Felton	DE	Design of the HVAC system for a five-thousand square foot postal facility.	Design and Engineering > HVAC
63	Philadelphia Schools Energy Evaluation	Philadelphia	PA	Survey and evaluation of potential energy conservation measures at a sample of 30 schools, the savings of which were projected to 225 other schools not surveyed.	Energy Conservation Studies > System Optimization

64	The PQ Corporation	Valley Forge	PA	Develop piping and equipment drawings for additions and modifications to a sodium silicate processing facility. Scope included the installation of tanks, pumps equipment and instrumentation per P&ID's and specifications.	Design and Engineering > Material Handling
65	The PQ Corporation	Valley Forge	PA	Engineering and design of a Sodium Silicate injection system to provide for increased refining yields. Scope included PLC controls strategies and sequence of operation.	Design and Engineering > Material Handling
66	The PQ Corporation	Valley Forge	PA	Civil design of a truck loading facility with environmental containment features.	Design and Engineering > Material Handling
67	The PQ Corporation	Valley Forge	PA	Engineering and design of a material handling system to unload glass ingots from railcars into an existing bucket elevator.	Design and Engineering > Material Handling
68	Prodesco	Perkasie	PA	Provided design for two class 1000 clean rooms used in the manufacturing of medical textiles.	Design and Engineering > HVAC
69	Stokes Vacuum, Inc.	Philadelphia	PA	Provided design services for the machine design of vacuum pump assemblies using 3D cad technology.	Design and Engineering > Material Handling
70	Wyeth-Ayerst	Philadelphia	PA	Coordinated and reviewed mechanical equipment for the renovation of an existing office space into a full-service health fitness center. Project was a Design/Build collaboration with the Herman Goldner Company.	Construction Services > Design-Build
	Chester Upland School District Energy Analysis	Union	NJ	Participated in a team effort to replace the school district's aging mechanical equipment and show a return on investment (ROI) analysis to provide economic payback.	Energy Conservation Studies > Equipment Optimization
	St. Andrew's School	Middletown	DE	Provided designs of HVAC and plumbing systems for the relocation and replacement of a commercial kitchen facility in an existing historic building.	Design and Engineering > Piping
	Prodesco	Perkasie	PA	HVAC and controls design of a clean room for the manufacturing, inspection, and packaging of medical textiles.	Design and Engineering > HVAC
	Prodesco	Perkasie	PA	HVAC and controls design of a controlled environment room for the manufacturing of medical textiles.	Design and Engineering > HVAC
	One Liberty Place	Philadelphia	PA	Replacement of existing control system. New DDC system is a BACnet over Ethernet network. Before bidding project each bidder demonstrated interoperable capabilities by communicating pier to pier with other controllers at our test bench.	Design and Engineering > Controls
	Bryn Mawr College	Bryn Mawr	PA	Mechanical HVAC and plumbing design of a three story office and facilities building.	Design and Engineering > HVAC
	Escor Corporation	King of Prussia	PA	Mechanical HVAC and plumbing design of a three story office building. This was a design-build project for the Franklin Development Corporation.	Construction Services > Design-Build
	One Liberty Place	Philadelphia	PA	Installation of elevation shunt trips and a pre-action system to insure that the elevators were grounded before the sprinklers in the elevator machine rooms were activated.	Design and Engineering > Electrical
	Ben Franklin House	Philadelphia	PA	Financial evaluation and design of a new boiler plant for a center city residential high-rise. The financial evaluation was done to demonstrate that the savings of converting from the steam loop to on-site generation was sufficient to justify the expense of installation. Project was a Design/Build collaboration with the Herman Goldner Company.	Construction Services > Design-Build
	The Way of the Cross	Ewing Township	NJ	Mechanical and electrical design of a church including a 250 person sanctuary and administrative areas.	Design and Engineering > HVAC
	One Liberty Place	Philadelphia	PA	Study and evaluation of a 3,550 ton chilled water plant. The subject chilled water plant consists of two – 1350 and one – 850 ton on a primary pumping system. Evaluation included reading chilled water flows, taking pressures and developing a flow and pressure profile of the distribution system. Feasibility of decoupling the hydronic system was evaluated.	System Evaluation and Repair > Hydronic System Eval
	Prodesco	Perkasie	PA	Design of a 150 ton chilled water system for the clean room and process equipment spoken of in number 94.	Design and Engineering > Mechanical
	One Liberty Place	Philadelphia	PA	Mechanical and electrical design of a 15,000sq.ft. information services center including a 2,500sq.ft computer room. HVAC system used water cooled heat pumps to heat and cool offices areas. Computer room used raised flooring system and water-cooled computer room unit.	Design and Engineering > HVAC
	Montco Silicon Technologies	Spring City	PA	Design of Class 10 Clean Room HVAC system with associated controls for the manufacturing of silicon wafers used in the semi-conductor industry.	Design and Engineering > HVAC
	Johnson Matthey, Inc	Wayne	PA	Documentation and evaluation of existing utilities distribution system to provide for plant expansion for the production of emission control catalysts. Utilities included chilled water, compressed air and de-ionized water.	System Evaluation and Repair > Hydronic System Eval

Reading Hospital	Reading	PA	Survey and evaluation of air handling units serving operating rooms and patient areas. Scope included documenting existing performance to determine if units had sufficient capacity for additional service. Survey was commissioned by Ballinger Architects and Engineers of Philadelphia, PA.	System Evaluation and Repair > Air Dist System Eval
One Liberty Place	Philadelphia	PA	Design of an emergency refrigerant exhaust system for a chiller plant that contained refrigerant 123. Design complied with current codes and ASHRAE standards.	Design and Engineering > HVAC
Sanofi Research	Malvern	PA	Design of a VAV HVAC system for a 10,000sq.ft. office complex. Project was a Design/Build collaboration with West Chester Mechanical Contractors, Inc. of Collingdale, PA.	Construction Services > Design-Build
Land Title Building			Survey and evaluation of the HVAC system for a 26-story office building. Scope included surveying various air handling systems to determine condition and usability in a complete building HVAC renovation. Project was a Design/Build collaboration with the Trane Company.	Construction Services > Design-Build
One Liberty Place	Philadelphia	PA	Design of a water source heat pump HVAC system for a 10,000sq.ft. office area and an computer room air conditioning system using a raised floor air distribution system. Project was a Design/Build collaboration with BLT Architects and Turnkey Construction.	Construction Services > Design-Build
Reading Hospital	Reading	PA	Survey and evaluation of existing steam boiler controls and feed water piping system. Scope included documenting all automated controls and their capabilities, as well as, documenting existing piping to the boilers. Control strategies and feed water piping were redesigned. Survey was commissioned by Ballinger Architects and Engineers of Philadelphia, PA.	System Evaluation and Repair > Hydronic System Eval
The Carnegie Center	Princeton	NJ	Survey and evaluation of HVAC Building Automation Systems for 15 building campus located in Princeton, NJ. Evaluation included survey of existing buildings with recommendations to implement a campus wide interoperable building automation system.	Design and Engineering > Controls
Drexel University	Philadelphia	PA	Design of HVAC system for Architectural Studios which included the use of water source heat pumps and associated distribution ductwork to condition the newly renovated studio.	Design and Engineering > HVAC
Benchmark School	Media	PA	Design of HVAC, Electrical and plumbing systems for the new Performing Arts Center and major classroom expansion project. Systems for Performing Arts Center (Auditorium) were designed to meet stringent sound requirements.	Design and Engineering > HVAC
Reading Hospital	Reading	PA	Design of air intake system for clothes dryers located in a large commercial laundry facility within the Reading Hospital Campus. System included ductwork, dampers, controls and required equipment tie-ins.	Design and Engineering > HVAC
The Nassau County Coliseum	Long Island	NY	Review existing utilities, HVAC systems, lighting and electrical loads for major sporting / multi event arena. Audit included existing conditions and recommendations for energy reduction and cost savings strategies.	Energy Conservation Studies > System Optimization
Peace-A-Pizza	Ardmore	PA	Design of mechanical, electrical, and plumbing systems for a pizza restaurant.	Design and Engineering > HVAC
Dresher MR/I	Dresher	PA	Design of the HVAC system for a privately owned and operated MR/I medical facility. Work included three air handling systems designed to maintain close tolerance temperature and humidity requirements. Systems also included an independent chilled water system for cryogenic cooling.	Design and Engineering > HVAC
Glenside Library	Glenside	PA	Design of a 20 ton split system air handler to replace an existing multi-zone unit. Work included sizing seven VAV boxes to serve the separate zones in the two-story building. Design project in collaboration with S.J.L Consulting Engineers.	Design and Engineering > HVAC
Drexel University	Philadelphia	PA	Design of HVAC and electrical systems for the MacAlister Building recording studio. Work included three water-source heat pumps to condition the space, and electrical systems for the heat pumps and lighting.	Design and Engineering > HVAC
Toll Brothers, Inc.	Huntingdon Valley	PA	Design of HVAC systems to replace a dual-duct air handler that served VAV's in Building 1 and the addition of 14 fan coils units in Building 2. Project provided improved climate control and an air side economizer and hydronic free cooling cycle to lower energy consumption.	Design and Engineering > HVAC

Merchants Row Condominiums	Philadelphia	PA	Design of HVAC systems for a 5-story historic renovation project in the Olde City section of Philadelphia. Work included the design of split system air handlers for 19 dwelling units and 2 retail spaces. Systems also included an exhaust system for general building exhaust and a rooftop unit for ventilation requirements.	Design and Engineering > HVAC
Wyck House	Philadelphia	PA	Design of mechanical, electrical, and plumbing system for two restrooms and an education facility. Work included the design of an electric in-floor radiant heating system and electrical distribution to three buildings.	Design and Engineering > HVAC
Toppers Spa (By Oasis)	Bucks County	PA	Design of mechanical, electrical, and plumbing systems for a 4,500 square foot spa. Work included the design of a seven-zone VAV system for the multiple treatment rooms to allow individual zone control.	Design and Engineering > HVAC
Alexander's Restaurant	Jenkintown	PA	Assisted in the design of mechanical, electrical, and plumbing systems for a 8,000 square foot restaurant addition. Work included the design of a multiple DX rooftop units to condition several zones.	Design and Engineering > HVAC
Drexel University	Philadelphia	PA	Design of mechanical and electrical systems for a 1,500sq.ft. emergency treatment center. HVAC system consisted of water source heat pumps.	Design and Engineering > HVAC
100 Market St	Philadelphia	PA	Design of HVAC systems for a five-story historic building renovation project in the Olde City section of Philadelphia. Work included designing a four-pipe fan coil system for a restaurant/office spaces. HVAC systems also included an air-cooled chiller, 100% outside air units for make-up and ventilation air, and a cast iron sectional boiler.	Design and Engineering > HVAC
Surgery Center of Salem County	Salem County	NJ	Progressive conducted an evaluation of existing HVAC systems and found many problems. Progressive designed modifications to the existing HVAC systems to provide a very cost effective correction to the systems.	Design and Engineering > HVAC
Wissahickon Charter School	Philadelphia	PA	Progressive conducted an evaluation of existing HVAC systems and found code violations and design flaws. Some code violations found were that outside air was not provided to the existing systems and gas-fired duct furnaces were installed in a return air ceiling plenum. Progressive redesigned the existing systems to correct these issues and also provided some additional design for new systems in the existing building and a new expansion.	Design and Engineering > HVAC
Drexel University	Philadelphia	PA	Design of mechanical and electrical systems for two video studios and their associated control and editing rooms. The systems consisted of two water-source heat pumps and the conversion of an existing constant volume system to variable volume.	Design and Engineering > HVAC
Toll Brothers	West Chester	PA	Design of HVAC systems for residences at the Estates at Tattersall in West Chester, PA. Tattersall is a 86 luxury home development consisting of seven styles of home with two to three AC systems. The systems consisted of split system air conditioners with gas-fired furnaces.	Design and Engineering > HVAC
Papery at Merchants Row	Philadelphia	PA	Design of HVAC systems for a stationery store in the Olde City section of Philadelphia. The systems consisted of split system air conditioners with electric heat.	Design and Engineering > HVAC
Toll Brothers	Huntingdon Valley	PA	Design of MEP systems for a 20,000 sq.ft. warehouse that was converted into general office space. The electrical & plumbing systems in the 20,000 sq.ft. of existing office space were upgraded and the mechanical systems were completely replaced.	Design and Engineering > HVAC
Toll Brothers	Huntingdon Valley	PA	Was responsible for coordinating and scheduling of trades in the renovation of the aforementioned MEP design. Conducted job meetings and oversaw the general progress of the project.	Construction Services > Project Management
Drexel University – CoMAD Expansion	Philadelphia	PA	Design of MEP systems for a 25,000 sq.ft. basement renovation in the University Crossings building. Worked with Drexel planners and building managers to correct mechanical installation flaws on a previous project that directly affected our mechanical design for this project.	Design and Engineering > HVAC
Wistar Institute	Philadelphia	PA	Design of MEP systems for a 1500 sq.ft. conference room, kitchen, and supporting spaces. Mechanical systems included one constant volume DX air handler with a bypass valve and four VAV boxes.	Design and Engineering > HVAC
Wistar Institute	Philadelphia	PA	Design of MEP systems for a 1250 sq.ft. glass pavilion and supporting vending spaces. Mechanical systems consisted of one central station air handler with a dual circuit DX cooling coil and two condensing units., one return/relief air fan and one exhaust fan for the vending area.	Design and Engineering > HVAC

The Philadelphian	Philadelphia	PA	Design of a 100% outside air HVAC system serving the corridors of a 720 unit condominium. Design consisted of nine new rooftop AHU units replacing six existing units. The new rooftop units were served by dual temperature water with a glycol run-around loop that captured heat from the outside air and rejected it to the supply air stream as re-heat to provide humidity control.	Design and Engineering > HVAC
The Philadelphian	Philadelphia	PA	The Philadelphian has a dual temperature central plant that contains dissimilar size and type of chillers. This study was commissioned to identify irregular flow and temperature conditions between the primary and secondary pumping systems. Isometric drawings and schematic diagrams were developed to identify and the problem and make recommendations.	System Evaluation and Repair > Hydronic System Eval
University of Pennsylvania	Philadelphia	PA	Design of MEP systems for the conversion of a 5,000sq.ft. dormitory to office space. HVAC system consisted of dual temperature fan coil system with ventilation air provided by a 100% OA rooftop AHU.	Design and Engineering > HVAC
United Way Building	Philadelphia	PA	Commissioned by Lawrence D. McEwen Architects to design necessary HVAC system modifications for a new office layout. The HVAC system consisted of dual temperature fan coil units.	Design and Engineering > HVAC
Hatboro/Horsham School District	Horsham	PA	Design of air conditioning unit replacement for the Hatboro/Horsham School District Administration Building. This called for the replacement of four rooftop AC units with one 25-ton VAV rooftop unit and 10 VAV boxes.	Design and Engineering > HVAC
Lippincott Building	Philadelphia	PA	The Lippincott Building is a low-rise residential building in center city Philadelphia that was being converted into condominium spaces. Progressive represented the interests of four owners to insure contract compliance and that their HVAC systems were properly designed and installed. Field surveys were conducted and meetings attended to communicate problems and concerns to all associated parties.	Construction Services > Commissioning
Cambodian Association of Greater Philadelphia	Philadelphia	PA	Commissioned by Cicada Architects for the complete renovation of the MEP systems of a former row house, consisting of three split systems with water heating coils, and a kitchen exhaust system. The plumbing scope included routing all sewage piping to a sewage ejector in the basement.	Design and Engineering > HVAC
Kuljian Corporation	Mosul	Iraq	After the Iraq war, part of the reconstruction effort was to improve the electrical grid to provide reliable electrical power. This effort required new substation buildings that included air conditioning and special security requirements. Progressive was commissioned by the Kuljian Corporation (a Philadelphia engineering firm) to design the HVAC systems for these facilities.	Design and Engineering > HVAC
Kuljian Corporation		Ireland	As in item 155 Progressive was commissioned by the Kuljian Corporation to design the HVAC system for a power plant administration office building and several other support facilities that were part of a new gas-turbine power plant located in Ireland.	Design and Engineering > HVAC
City of Philadelphia Recreation Centers	Philadelphia	PA	Evaluated the condition of the facilities at 27 Philadelphia recreation and older adult centers and recommended improvements. Evaluation included mechanical, electrical, and plumbing systems.	System Evaluation and Repair > Air Dist System Eval
Mission 21 Condominiums	Philadelphia	PA	Evaluated the existing plumbing systems and designed new systems for renovation and conversion of historical church into new condominiums.	Design and Engineering > Fire Protection and Plumbing
Willow Grove Pointe Shopping Center	Horsham	PA	Designed HVAC and plumbing systems for twelve retail spaces which included restaurants and undefined retail spaces.	Design and Engineering > HVAC
Wayne Mills	Philadelphia	PA	Part of the manufacturing process at Wayne Mills involves drying of strips of fabric. Progressive designed and is administering the installation of a new drying room to replace an existing room, for faster drying times and improved system efficiency.	Design and Engineering > HVAC
Wissahickon Charter School	Philadelphia	PA	The Wissahickon Charter School is located in a large converted warehouse and expanded for the second time, taking over adjacent warehouse space. This expansion includes five classrooms, an office cluster, and a gymnasium.	Design and Engineering > HVAC
Social Security Administration	Philadelphia	PA	The Social Security Administration purchased a fire-damaged movie theater to convert to office space. Progressive Provided HVAC design services.	Design and Engineering > HVAC

Passyunk Avenue Revitalization, Inc.	Philadelphia	PA	Passyunk Avenue Revitalization, Inc. (PARI) is renovating twelve dual-use properties in south Philadelphia. These properties consist of first-floor commercial space and second and third floor residential space. Most properties are to be completely renovated, with new plumbing and electrical systems and central, ducted HVAC.	Design and Engineering > HVAC
Deer Meadows Retirement Community	Philadelphia	PA	Deer Meadows was experiencing problems with the operation of it's boiler heating water system. Progressive re-engineered the system administered the corrective action.	Design and Engineering > Piping
Salter Mews Condominiums	Philadelphia	PA	Progressive designed a ventilations system for the subterranean garage for the new Salter Mews Condominiums.	Design and Engineering > HVAC
Green Streete Artist's CoOp			Progressive conducted an assessment of the MEPF systems at the Greene Street Artist's CoOp, in preparation for an upcoming renovation.	System Evaluation and Repair > Forensic Investigation