



Delcho Palechev, P.E.

SUMMARY OF EXPERIENCE

Mr. Palechev has over 12 years of experience and is a graduate of Rutgers University with a bachelor's and master's degrees in Civil Engineering. At Rutgers University, Mr. Palechev's course work focused primarily on structural design, including classes in steel, reinforced concrete and pre-stressed concrete design. Mr. Palechev was awarded by the NJ chapter of the American Concrete Institute as the 2004 graduating civil engineer having achieved the best performance in concrete structures and technologies. He has been named outstanding scholar by the Rutgers Engineering Alumni Association and awarded for having achieved the highest cumulative GPA in the Rutgers School of Engineering during his undergraduate studies.

His project experience includes the structural design of a wide variety of educational, commercial, pharmaceutical, telecommunications, residential, recreational and other facilities.

Education

M.S. – Civil Engineering, Rutgers University, 2007

B.S. - Civil Engineering, Rutgers University, 2004

Professional Registrations

P.E. – NJ(#48732), MD(#36812), NY(#088091)

Recognition and Achievements

Invited speaker - Rutgers University School of Engineering freshman orientation classes, October 2006, October 2007, March 2008, October 2008.

PROJECT EXPERIENCE

K-12 AND HIGHER EDUCATION

Chatham Schools, Chatham, Morris County, NJ - Project Engineer who provided structural engineering services for alterations and additions to the Middle School, Washington Elementary School, and Lafayette Elementary School in Chatham, NJ. The additions included the design of two new gymnasiums, classrooms, and two media centers.

Joyce Kilmer School Additions and Alterations, Milltown, Middlesex County, NJ - Project Manager for the addition of a new single story, 4,800 SF media center, computer lab, kitchen, restroom and storage addition to the Joyce Kilmer School in Milltown, NJ. The new structure is isolated from the existing building and is separated with a new firewall.

Kean University Classroom Expansion, Union City, Hudson County, NJ - Project Engineer for the 100,000 SF renovation, including the addition of many program elements such as a 310-seat recital hall, practice room, dressing room, and lobby. The recital hall renovation involved raising of the roof structure and reconstruction of the mezzanine, as well as adding catwalks, lighting supports and other features to turn it into state of the art facility.



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Kean University East Campus Addition, Union City, Hudson County, NJ - Project Engineer for the addition of a new mezzanine within the existing upper gymnasium to create new classroom space. The new mezzanine was constructed using reinforced concrete flat plate slab supported by reinforced concrete columns.

Lorraine School, Keansburg, NJ – Project Engineer who provided structural design services for the schematic phase for a new 3-story steel framed school building. The design was performed in accordance with NJ DCA requirements for progressive collapse analysis and included an alternate load path analysis,

New Emerson Elementary School, City of Plainfield, Union County, NJ - Structural Engineer for the design of a new school including a media center, a gymnasium, cafeteria, and 2-story classroom building. Design of tension/compression ring for media center, masonry shear wall design, steel frame, and long span exposed custom steel trusses for gymnasium and cafeteria, various ornate structural features including a curved frame common entrance, skylights and pediments. In depth coordination with geotechnical engineer to determine soil classification for seismic analysis.

Ocean County College Fine Arts Center, South Toms River, Ocean County, NJ – Structural Engineer for the design of a new 11,000 SF addition to provide much needed space for groups that were previously off-campus. The project included significant modifications to bring the building up to ADA compliance, including new ramps, elevators and chair lifts. Modifications were made to the existing theater framing to support new theater lighting, new mechanical equipment, new photo-voltaic cells, and new plumbing/ductwork/sprinkler lines.

NJSCC Plainfield Middle School, Plainfield, Union County, NJ - Project Engineer for a new two-story, 82,000 SF school with auditorium and gymnasium, cafeteria and media center. The structure is steel framed with masonry shear walls, design includes custom steel trussed curved roof for gymnasium and auditorium.

Randolph Board of Education Center Grove School Administrative Addition, Randolph, Morris County, NJ - Project Engineer for the structural design of a 8,500 SF office and administrative addition. The new addition has a structural steel frame and was designed for a future second floor by including the construction of a composite concrete roof slab.

Rutgers University Biomedical Engineering Facility, Piscataway, Middlesex County, NJ – Project Engineer who provided structural construction administration services for the construction of a new 3 story plus mechanical level 53,000 SF classrooms and labs facility.



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Solomon Schechter Day School Addition, West Orange, NJ - Project Engineer for the structural design of a new, three story school addition. The project included the design of a deep foundation system, structured slab and composite steel framing.

Temple Sharey Addition, South Orange, Essex County, NJ - Project Engineer who was involved in a number of additions and modifications to the existing structures located at the referenced facility. The new work included the infilling of an existing exterior courtyard into a enclosed one-story multi-function space, the addition of a two-story classroom expansion and the modification of the existing adjacent educational building including the current multi-purpose room, the demolition and reconstruction of the front entrance and lobby area, the restoration and reconstruction of the exterior terraced area and the construction of a new exterior play area screen wall.

COMMERCIAL

375 Mt Pleasant Renovation, West Orange, Essex County, NJ Project Manager who provided structural design services for the adaptive reuse of the old Organon Pharmaceutical building located at 375 Mt. Pleasant Avenue in West Orange, NJ. The proposed redevelopment included interior renovations and alterations and the addition of a new wearing slab, new vehicular barriers and new areaways for ventilation. It involved the removal of an existing bay to create a new courtyard and the addition of a lateral force resisting system to a portion of the existing building. The project also included the addition of the new stair cores and a new elevator core.

Audi Showroom, Secaucus, Hudson County, NJ - Project Engineer who was involved with the design of a new 2 story Audi automobile showroom.

Home Depot Parking Garage, Queens, Queens County, NY - Project Engineer who provided design services for a multilevel 450 space precast prestressed concrete structure.

Metrotop II, Iselin, Middlesex County, NJ - Project Engineer for the design of the lateral load resisting system of a new 10-story, 320,000 SF office building. The framing consists of a composite slab on steel framing. The foundations consist of isolated spread footings with rock anchors. The lateral load resisting system consists of steel braced frames. The building also has a 4 story connecting link to an adjacent office building. The building is clad in precast, granite, and a glass wall system.

P.S. From Aeropostale at Queens Center Mall, Elmhurst, Queens County, NY - Project Manager who provided full structural engineering services associated with new storefront supports, selective structural demolition, and miscellaneous light gage framing for a P.S. From Aeropostale retail store fit-out at the Queens Center Mall.



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Sovereign Bank Lakewood, NJ; Concordville, PA; London Grove, PA; Bensalem, PA- Project Engineer for the structural design of a new, 3,200 SF steel framed retail branch for Sovereign Bank.

Westin Hotel, Berkeley Heights, Union County, NJ – Design Engineer who provided structural engineering services for a new reinforced concrete 8-story, 160,000 GSF hotel. The building contains L-shaped rooms, a lobby, ballroom, reception, pre-function and lounge areas, meeting rooms, a swimming pool, exercise room, and other hotel amenities. The building was built over an existing landfill.

ENVIRONMENTAL FACILITIES

Stoneleigh Woods, Sparta Township, Sussex County, NJ – Project Engineer for the structural design of a 26,000-gallon per day decentralized wastewater treatment facility for the sewage generated by a proposed age-restricted community in Sparta, NJ.

Mary Bell Sewer, Water, and Road Improvements, Stafford Township, Ocean County, NJ – Structural Engineer responsible for the design of 2 new sewage pump stations.

Tennent Road Water Treatment Plant, Marlboro, Monmouth County, NJ - Project Engineer who provided structural design services for a new 1.72 mgd manganese green sand filtration plant building with various chemical feeds and backwash recycling.

INDUSTRIAL

City Ice Cold Storage Facility, Richmond, Richmond City, VA - Project Engineer who provided structural engineering services for an 8,000 SF, \$750,000 -10 degree cold storage addition to an existing facility.

Sika Corporation Freight Elevator Addition, Lyndhurst, Bergen County, NJ - Project Manager who provided structural design services new addition to accommodate a 3 stop, 12,000 pound freight elevator at the Sika Corporation's plant located in Lyndhurst, NJ. The new elevator penetrates through the low roof of a flammable liquids storage room and will extend up two levels as an exterior addition to the building.

INSTITUTIONAL/GOVERNMENT

Glen Rock Municipal Building, Glenn Rock, Bergen County, NJ - Project Engineer for the partial demolition, renovation, and additions to the existing Municipal Building. The new construction includes 2,675 SF, 3,275 SF and 2,150 SF at the 1st, 2nd and 3rd floors, for a total of 8,100 SF. Critical demolition and renovation items include: removal of the existing elevator and previously altered structural support conditions, removal



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of the jail cell and safe walls and the associated support conditions, removal of the existing column support in the men's breakroom, conversion of the existing low roof into a floor and adding an associated new roof above, modification of the existing high roofs as required to construct the new connecting corridors, and removal of numerous existing load bearing walls.

Hackensack Police Building, Hackensack, Bergen County, NJ - Project Engineer for a 36-foot by 69-foot, two story police garage and training facility. The approximate total square footage for the new building is 5,000. The floor-to-floor height of the facility will be 14-feet and the exterior walls will be constructed with CMU. Developed all pertinent structural Contract Drawings for the primary structural systems, including foundations, floor and roof framing plans, sections, details, schedules, and general notes.

Hooper Avenue Pedestrian Bridge, Toms River, Ocean County, NJ - Project Engineer for the masonry restoration of an existing four story administration building and adjacent bridges, elevator and stair hub and stair towers.

Monroe Library Additions, Monroe, Middlesex County, NJ - Project Engineer for the 13,530 SF and 11,170 SF, one story, north and south expansion to the existing Library, respectively. The additions are single story with variable roof levels and feature open web steel joists, steel girders and columns and ordinary steel moment frames.

Township of Lower Municipal Utilities Authority Administration Building Addition and New Garage, Villas, Cape May County, NJ - Project Engineer for an addition and renovation of the existing offices and a new garage facility. The garage is a four bay pre-engineered metal building with an office and a mezzanine storage area.

PHARMACEUTICAL FACILITIES

Pfizer Building 185, Morris Plains, Morris County, NJ - Structural Engineer who provided the structural design for a 275,000 SF multi-story office and laboratories building. The structure consisted of composite steel framing with steel bracing serving as the lateral system. Features of the design included the design of the basement slab for hydrostatic pressure, design of the floor framing to reduce vibrations and a three story high reinforced concrete firewall.

Schering-Plough Mezzanine & Floor Load Rating, Kenilworth, Union County, NJ - Project Engineer for the structural load rating of existing floors and mezzanines within several buildings located on Schering Plough's Kenilworth, NJ campus.



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RESIDENTIONAL FACILITIES

Linden Lakes Senior Housing, Lindenwold, Camden, NJ - Project Engineer who provided structural design for a 3-story, wood frame construction with prefabricated wood floor and roof trusses, slab on grade, 82-unit age restricted apartment building. The building consists of seventy 1-bedroom and twelve 2-bedroom apartments. The project was financed through the NJHMFA and was built to comply with the NJ Green Homes standards and Energy Star.

Saint Peter's Senior Housing, Pleasantville, NJ – Project Engineer for the structural design of a new 55,000 SF six story affordable senior housing building. The structure is to be constructed of precast plank supported on load bearing CMU walls. The design also included a deep foundation system consisting of timber piles and reinforced concrete grade beams.

The Pacific Apartments, Newark, Essex County, NJ - Project Engineer for the new 105,000 SF, 5-story residential building. The building will consist of 1 and 2 bedroom units along with a common area on each floor. The building is ADA accessible and was constructed of timber framing over a composite steel framed garage level.

RECREATIONAL FACILITIES

Community Pool at Lyndhurst High School, Lyndhurst, Bergen County, NJ - Project Manager who provided structural services for the design and construction administration of a 10,000 SF Community Pool Facility to house a 6-lane competition pool at Lyndhurst High School. The building measures approximately 100' by 100' and includes spectator bleachers, outdoor canopies and an outdoor ADA ramp with site retaining walls. The exterior walls were constructed of brick veneer and glazed CMU with internal insulation. The building features long span steel joists supported by steel beams and columns. The project also involved coordination with the pool consultant and design of holding tanks and equipment pits for the pool systems. The MPP engineer was also responsible for coordinating and recommending a coating system for the structural steel components able to withstand the high humidity and corrosive environment.

Seaside Park Marina Investigation, Seaside Park, Ocean County, NJ - Project Engineer who provided structural engineering services for the structural investigation of existing marina that consists of 200 boat slips configured within approximately 940 LF of dock, 2,000 LF of catwalks, 2,225 LF of bulkhead, and 365 LF of breakwater.

Wiggins Waterfront Enhancement Project, Camden, Camden County, NJ - Structural Engineer who provided structural/maritime engineering for the enhancement to Wiggins Waterfront Park & Promenade in Camden,



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New Jersey. The main objective of this project is to cure the settlement problems of the promenade, and complete needed repairs to the promenade.

STORAGE FACILITIES

ReCAP Module 5, Plainsboro, Middlesex County, NJ - Project Engineer who provided structural engineering services for the design and construction administration of a 28,000 SF shelving facility for the Research, Collections and Preservation Consortium on Princeton University's Forrestal Campus. The project also included a 2,300 SF mezzanine level.

ReCAP Module 8, Plainsboro, Middlesex County, NJ - Project Engineer for the addition of a Highbay, cold storage book repository warehouse and a 2,300 SF mezzanine. The project also included the design of a new garage and structural features to accommodate the miscellaneous renovations in the existing building.

TELECOMMUNICATION FACILITIES

Verizon Wireless MSC, Philadelphia, Philadelphia County, PA - Project Manager for the renovations of a Verizon Wireless Switch facility as part of a master plan project. The structural scope of the renovations included; A new local power distribution cable route between the switch room, addition and power room, Seismic criteria and bracing grid for the existing auxiliary framing in the new addition (switch 005), Make-up air unit seismic bracing, Modification of existing C-clamps, Structural support for roof mounted exhaust fan and make up air unit for hydrogen exhaust system.