



### **Renton Park Elementary School; John Korsmo Construction for Renton School District**

White Shield provided construction staking services to John Korsmo Construction for a new school in the Renton School District in Renton, WA. This 2 year project involved demolition of the old school, construction of a new 64,371 square foot building, and associated sports fields on a sprawling 5 acre property. The construction survey staking, required verification of the existing control provided by the client. White Shield field located and verified the rough grade, retaining walls, storm system, water system, sanitary sewer system, curbs, exterior lighting, and building location. WSI staked sidewalks, curbs, and the location and elevation of parking areas.



### **South Lake High School; Commercial Structures for Seattle School District**

White Shield provided Commercial Structures with construction-staking and survey services for an alternative public school in the Seattle School District that is home to 136 students from grades 9 through 12. WSI verified the existence of property corners and compared field locations to the existing Plat of Survey, and established a network of survey control points and 3 benchmarks near the construction site. The firm also set Temporary Erosion and Sediment Control (TESC) facilities by staking clearing limits at intervals of approximately 75-feet and staking detention ponds and the centerline of swales. Additionally, staking was provided for mass grading which encompassed the location and elevation of the building pad and the parking areas, resulting in a sub-graded site. WSI also staked the curb and sidewalk alignment every 50 feet on straights with grade, and every 25 feet on curves. All storm and sanitary structures were staked, including cleanouts for sewer. With regard to waterlines, WSI stated all horizontal changes in direction, tees, water valves, manholes and hydrant locations, and staked columns and grid lines on an offset. WSI was also responsible for staking the center of light poles and electrical vaults. Finally, WSI staked the perimeter of the Plaza, which was established around the entire building, with all radius points, and provided cut-fill to finished grade elevation.





### ***Glacier Peak High School; Lydig Construction for Snohomish School District***

White Shield supported Lydig Construction with the building of a new 245,000 square foot high school for the Snohomish School District. This new high school featured a new performing arts center and an artificial turf football field with a project cost of \$60 million. WSI verified the property corners, and established a network of control points in order to execute the survey tasks efficiently. WSI provided staking for the location and elevation of the building pad and parking areas for mass grading. Storm, sanitary structures, water lines, light poles, electrical vaults, valves, manholes, and hydrants were also staked. Retaining walls were staked at 50 foot intervals, and 200 points were set for the installation of the sidewalks. WSI established the perimeter curb, fencing, and home plate of the baseball fields, and also provided soccer field and track layouts.



### ***Kennydale Elementary School; Wick Construction for Renton School District***

White Shield provided construction staking and survey services for Wick Construction for a new school in the Renton School District. Kennydale Elementary School is located on 6.7 acres, which includes sports fields and a play area. WSI verified the existing property corners or control points, established a network of control points and three benchmarks to facilitate efficient performance of all future survey tasks, and staked the location and elevation of the building pad and parking areas for the mass grading. WSI staked all storm and sanitary structures, water lines, manholes, hydrant locations, and utility crossings which included setting approximately 120 points to complete these tasks. A utility as-built survey was supplied to the client upon completion.



### ***Lynwood High School; Cornerstone General Contractors for the Edmonds School District***

White Shield provided Cornerstone General Contractors with construction staking and survey services at the New Lynwood High School located in the Edmonds School District. The High School is located on a 40-acre site off of North Road in Lynwood, WA. The new two-story, fully accessible school is a 214,000 square foot facility, and will accommodate 1600 students and 100 staff members. The construction included a 450-stall parking lot and a separate bus entry/exit area. The school also included a 350-seat Performance Theater, artificial turf



soccer and softball field, football field with a running track, baseball fields, tennis courts, and a field house with concessions. WSI verified the property corners and compared field locations to the existing plat of survey, and provided Cornerstone with three benchmarks to facilitate vertical checks. The firm also set temporary erosion and sediment control (TESC) facilities by staking clearing limits at 50-foot intervals, and also includes staking the detention ponds, silt fences, and bioswales. WSI provided staking for mass grading for features such as parking lots, building envelopes, and site slopes to get the sub-grade. Storm, sewer, water utilities were staked, as well as curbs and sidewalks throughout the project, at 50' intervals to finish grade. Additionally, WSI was responsible for staking the center of light poles and corner of vaults. Following the development of the foundation, WSI established basic grid control for the project.



### **Carson Elementary School; Commercial Structures for Puyallup School District #3**

White Shield provided Commercial Structures with construction staking and survey services for a new elementary school located in the Puyallup School District. This \$22 million dollar facility, located on a 15 acre site, is approximately 74,000 square feet in size, and is home to approximately 750 students. WSI verified the existence of property corners and compared their field locations to the existing plat of survey, and established a network of survey control points. WSI set temporary erosion and sediment control, which included staking clearing limits at 75 foot intervals. Also, detention ponds, silt fences and bioswales were posted. Additionally, staking was provided for mass grading, which encompassed major site features such as building envelopes, road centerlines, streets, parking lots, earthwork and all site slopes, resulting in a sub-graded site. The firm also staked curb and gutter line alignments as well as radius points at 50-foot stations with cut/fill to top back of finish grade. Above and below-ground utilities such as storm, water, sewer were also established.



### **Cedarhurst Elementary School; Babbit Newman Construction for Highline School District**

White Shield provided construction staking and survey services to Babbit Newman Construction for the demolition and new construction of Cedarhurst Elementary School, located in Burien, WA. The project included construction of the new 65,000 square foot school, and site development work to accommodate play fields, playgrounds, and a covered play court. WSI verified the existence of property corners and compared field locations to the existing plat of survey. A network of control points and 2 benchmarks near the site were established, and





staking was provided for mass grading which encompassed the major site features such as the location and elevation of the building pad, building envelopes, road centerlines, streets, sidewalks, parking lots, earthwork, and site slopes resulting in a sub-graded site. The firm also staked the curb and gutter line alignments as well as radius points at 25-foot stations. WSI also located all utilities including storm, water, sanitary structures, hydrants, and utility crossings.

### **Glacier View Junior High School; Commercial Structures for Puyallup School District #3**

White Shield supported Commercial Structures with construction staking and survey services for the new Glacier View Junior High in the Puyallup School District. The 98,306 square foot school is located on a sprawling 20 acre site which included a soccer field and a track. WSI verified the existence of property corners and compared their field locations to the existing plat of survey, and established a network of survey control points. WSI provided Commercial Structures with six benchmarks near the construction site to facilitate vertical checks, and staked the location and elevation of the building pad and parking areas for mass grading. WSI was also responsible for staking all storm and sanitary structures, light poles, electrical vaults, curbs, retaining walls at 50-foot intervals, and sidewalks.



### **Woodridge Elementary School; Cornerstone General Contractors for Bellevue School District**

White Shield provided construction staking and survey services for the demolition and reconstruction of a new 62,000 square foot elementary school for the Bellevue school district. This \$20 million school was completed in summer of 2007, and opened for the 2007-2008 school year. The new school featured a gymnasium and multi-purpose room, stage areas, music rooms, and art/science project rooms incorporating state of the art technology. WSI provided construction staking services on the 10 acre site which included staking for clearing limits at 50 foot intervals, staking for mass grading at 100 foot intervals, and stake curbs and edge of pavement at 50 foot intervals. WSI also staked the





center of structures with double offsets and other elements of work including bio-swale, hydrants, all grid line intersection and corners, intersecting gridlines once building slabs were in for each zone and two elevation benchmarks.

### **Sherwood Forest Elementary School; Cornerstone Construction for Bellevue School District**

White Shield assisted Cornerstone Construction Co. with demolition and construction of a new \$25 Million, 2-story, 6,200 square foot elementary school for the Bellevue School District. WSI verified the existence of property corners, and established a network of control points, and located and verified rough grade, retaining walls, storm system, water system, sanitary sewer system, curbs, exterior lighting, and building location. WSI also staked sidewalks, curbs, and the location and elevation of parking areas.

