



PUYALLUP SCHOOL DISTRICT
ENVIRONMENTAL CHECKLIST
Project #01-02-16 – Firgrove Elementary Replacement

A. BACKGROUND

1. Name of proposed project, if applicable:

Firgrove Elementary Replacement, PSD Capital Project #01-02-16

2. Name of applicant:

Puyallup School District #3 (the “District”)

3. Address and phone number of applicant and contact person:

**Brian Devereux
Director of Facilities Planning
302 – 2nd St SE
Puyallup, WA 98372**

4. Date checklist prepared:

July 10, 2017

5. Agency requesting checklist:

Puyallup School District #3

6. Proposed timing or schedule (including phasing, if applicable):

**Firgrove Elementary replacement building:
Construction of Firgrove replacement: March 2018 – August 2019
Staff Move in: July - August 2019
School Start: September 2019**

**Existing Firgrove Elementary building:
Pope Elementary staff Move in: July - August 2019
Pope Elementary one year occupation – September 2019 – June 2020
Pope Elementary staff vacate: June – August 2020.**

Existing Firgrove Elementary may be raised after August 2020.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Space will be allotted for four permanent or portable classrooms, but without any schedule for when these might be located at the site, if at all.

Pope Elementary students and staff will be temporarily relocated to the existing Firgrove Elementary school during the 2019-20 school year while the Pope building is under construction for a major remodel and expansion.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

**FEMA Habitat Assessment Summary by The Watershed Company, dated 12/30/2016
NGPA Wetland Verification Report by The Watershed Company, dated 12/30/2016
Traffic Impact Analysis by Heath & Associates, dated 03/09/2017
Geotechnical Report by GeoEngineers, dated 11/17/2016
Geotechnical Report Addendum by GeoEngineers, dated 5/5/2017
Landscape Site Plan dated June 16, 2017**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

A building permit with Pierce County (#859327) has been issued to place a 24'x36' dry portable classroom building at the existing Firgrove Elementary site in support of increasing enrollment at Firgrove Elementary beginning in the 2017-18 school year.

10. List any governmental approvals or permits that will be needed for your proposal, if known.

Administrative Design Permit	Pierce County
Site Development Permit	Pierce County
Building Permit	Pierce County
NPDES Permit	WA Dept. of Ecology
School Design Review	Tacoma-Pierce County Health Department
Electrical Permit	Department of Labor and Industries
Mechanical Permit	Pierce County
Lot Line Encroachment Affidavit	Pierce County

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

Puyallup School District proposes to replace the existing Firgrove Elementary school with a new 85,000 square foot, two-story elementary school in the southwest corner of the District's property shared between Firgrove Elementary and Ballou Junior High, a combined 40-acre sites (includes tax parcels 0419164005 and 0419164008). The existing school will be open during construction of the new school. The proposed building is on a shy 15-acre site with frontage on 24th Street East. The site has frontage on Meridian Avenue East (SR-161) and 136th Street East. The new school will accommodate approximately 730 students and will include new commons/cafeteria, gymnasium, and library.

During the 2019-20 school year, Pope Elementary students and staff will occupy the existing Firgrove Elementary buildings during the planned remodel and expansion construction work at Pope Elementary planned for that school year. Pope Elementary students and staff will return to the Pope Elementary site in the summer of 2020 for the beginning of the 2020-21 school year. The existing Firgrove Elementary buildings may be surplus and raised as soon as the 2020-21 school year, subject to school board approval.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

**The site address is:
13918 Meridian Avenue East
Puyallup, WA 98373**

The new Firgrove Elementary School will be sited in the SW corner of the site that is currently shared by Ballou Junior High and the existing Firgrove Elementary School. The site may be accessed from either Meridian Avenue East or 136th Street East.

B. ENVIRONMENTAL ELEMENTS

1. EARTH

- a. General description of the site (circle one); **flat**, rolling, hilly, steep slopes, mountainous, other:
- b. What is the steepest slope on the site (approximate percent slope?)

In general, the site slopes within the proposed project area range between around 2% to 5%. There are some limited areas along the south portion of the site, that slopes are between 20-35%.

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Based upon the Geotechnical Engineering Services Report, prepared by GeoEngineers, dated November 17, 2016, the underlying soils within the project area generally consist of existing fill or reworked soils (fill), lacustrine ice-contact deposits (lacustrine soils), and glacial till like soils (glacial till).

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No known indications or history of unstable soils.

- e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Based upon preliminary earthwork quantities, it is anticipated that there will be approximately 4,500 cubic yards of stripped organic material that will need to be exported from the site. To construct the proposed improvements, there will be approximately 14,500 CY of onsite material that will be excavated and used throughout the site for establishing new grades, with approximately 5,900 CY of excess material that will be exported from the site. The project will strive to balance onsite earthwork quantities such that the amount of onsite material exported from the site and the amount of imported material are limited. However, it is anticipated that portions of the onsite material will not

be suitable for fill, and will have to be exported from the site, and new suitable fill material will have to be imported to the site. The exact quantity of unsuitable material can vary during construction depending on conditions, but it is anticipated that approximately 2,000 CY of material will have to be exported from the site and suitable structural fill material imported as necessary. The total anticipated export from the site will be a combination of the stripped organic material (4,500 CY), the unsuitable material (2,000 CY), and excess export material (5,900 CY) for an approximate total of 12,400 CY of export. The approximate amount of imported material will be 2,000 CY. The source of this fill will be determined by the General Contractor selected for the project.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion could occur as a result of construction activities. However, ~~and~~ Temporary Erosion Sedimentation Control (TESC) Plan and a Surface Water Pollution Prevention Plan (SWPPP) will be provided as part of the project design.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Currently the total existing school property (both tax parcels) that encompass both the existing Firgrove elementary school and Ballou Jr High School, has approximately 32% existing impervious coverage. After the completion of the proposed project the total school property (both tax parcels) will have approximately 50-55% impervious coverage.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Temporary erosion and sedimentation control BMPs including but not limited to silt fencing, temporary construction entrance, catch basin inlet protection, temporary sediment ponds, and construction water quality treatment measures will be implemented to minimize erosion and to treat stormwater runoff during construction. BMPs specific to the site and project will be specified in the construction contract documents that the contractor would be required to implement.

2. AIR

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Dust and dirt particles, as well as exhaust from typical construction vehicles may be present during the project construction. Only vehicle exhaust similar to what travels on public roads are anticipated after the project is completed.

- b. Are there any off-site sources of emission or odor that may affect your proposal? If so, generally describe.

No.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Construction activities will comply with Northwest Clean Air Agency regulations, including reasonable controls such as applying water to suppress dust during dry weather, and vehicle washing and street cleaning to prevent dirt, mud and other debris deposits on public roadways.

3. WATER

a. Surface Water:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

There is an existing wetland and buffer located within a recorded NGPA along the west boundary of the school property, per the NGPA Wetland Verification Report, prepared by The Watershed Company, dated December 30, 2016.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

The project does not propose any work within the wetland or buffer, as described above. All work will be outside the recorded NGPA.

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

- 5) Does the proposal lie within a 100-year flood plain? If so, note location on the site plan.

There is a 100-year floodplain elevation, as mapped by Pierce County, along the west side of the school property. However the project does not propose any improvements within this 100-year floodplain area.

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

Runoff from the paved driving and parking surfaces will be treated to Pierce County required standards, and then discharged to surface waters as allowed by current development codes.

b. Ground Water:

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

Groundwater will not be withdrawn for drinking water or other purposes. The project does propose to discharge a limited amount of treated surface stormwater runoff into the native soils, where feasible. The quantity of stormwater proposed to discharge into the native soils is not known at this time.

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

No waste materials will be discharged into the groundwater.

c. Water Runoff (including storm water):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters, If so, describe.

The source of runoff from the site will be from rainfall landing on the building roofs and exterior paved surfaces. A storm drainage plan will be prepared in accordance with Pierce County requirements. Stormwater will be mitigated and managed by a series of traditional and low impact development BMPs including but not limited to bioretention ponds, permeable pavement, underground piping, below grade open bottom storage chambers and below grade detention pipes. Portions of the treated stormwater runoff will be infiltrated into the native site soils where feasible, with the remaining mitigated stormwater flows being discharged into the existing stormwater facility located in the southwest portion of the site.

- 2) Could waste material enter ground or surface waters? If so, generally describe.

It is not anticipated that waste materials would enter surface or ground waters. The project will provide water quality treatment facilities and pollutant source control measures as required per Pierce County to treat stormwater water runoff prior to infiltrating into the site soils.

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

The project does not propose to alter the existing drainage patterns. Currently the existing drainage system within the project area generally discharges to the west into the existing stormwater facility in the southwest corner of the school property. The proposed project will continue to route flows to the west into the existing drainage system, matching the existing conditions accordingly.

- d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Flow control BMPs and stormwater facilities in accordance with Pierce County requirements will be utilized to mitigate surface runoff from the project. These include utilizing low impact development techniques, such as bioretention ponds and permeable pavement as the first tier of stormwater management and limited infiltration into the native site soils. Further mitigation and infiltration of stormwater will be provided by a combination of below grade open bottom chambers, and below grade detention pipes to provide the required mitigation prior to discharging into the existing drainage system.

4. PLANTS

- a. Check the types of vegetation found on the site:
 deciduous tree: alder, maple, aspen, other
 evergreen tree: fir, cedar, pine, other
 shrubs
 grass
 pasture
 crop or grain
 Orchards, vineyards or other permanent crops.
 wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
 water plants: water lily, eel grass, milfoil, other
 other types of vegetation

- b. What kind and amount of vegetation will be removed or altered?

Existing lawn and planting areas will be removed and replaced from the southwest portion of the existing site, while preserving the existing tree buffer on the south and west edges of the site. Some larger trees will need to be removed in accordance with the Pierce County tree conservation requirements. Approximately 10 acres of landscape area will be altered and /or replaced with new landscape, building, walkways and parking area.

- c. List threatened or endangered species known to be on or near the site.

None known.

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Lawn and planting areas around the new school will be planted with grass and with native and drought resistant plantings of shrubs and groundcover. Outlying areas will be planted with seeded meadow grasses. New specimen trees will be planted on site where feasible and or required by local ordinance.

- e. List all noxious weeds and invasive species known to be on or near the site.

Himalayan blackberry

5. ANIMALS

- a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

Birds: hawk, heron, eagle, **songbirds**, other _____

Mammals: **deer**, bear, elk, beaver, other _____

Fish: bass, salmon, trout, herring, shellfish, other _____

- b. List any threatened or endangered species known to be on or near the site.

None known.

- c. Is the site part of a migration route? If so, explain

Pacific Flyway.

- d. Proposed measures to preserve or enhance wildlife, if any:

Site planning will strive to retain existing trees and native vegetation where possible. New plantings will incorporate mostly native plants which will provide numerous habitat opportunities on site as well as educational value to the students.

- e. List any invasive animal species known to be on or near the site.

None known.

6. ENERGY AND NATURAL RESOURCES

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electric and natural gas will be used to meet the project's energy needs. Solar power is also under consideration. Energy will be used for heating, ventilation, air conditioning, along with other uses typical of an elementary school.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Proposed replacement school building will be designed to meet Washington Sustainable School Protocol for high performance schools. High performance LED lighting will be used, 98% efficient hydronic heating boilers, ECM fans, etc for maximizing energy savings.

7. ENVIRONMENTAL HEALTH

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe. **No.**

- 1) Describe any known or possible contamination at the site from present or past uses.

None known.

- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid natural gas transmission pipelines located within the project area and in the vicinity.

Natural gas utility be PSE will be brought to the new site replacement school building site.

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Typical construction equipment and materials will be present on site during construction. The new school will store supplies consistent with normal operations of a school building.

- 4) Describe special emergency services that might be required.

None beyond standard police, fire, and medical services for an elementary school.

- 5) Proposed measures to reduce or control environmental health hazards, if any:

Not applicable.

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Existing noise generators are mainly those associated with traffic traveling on Meridian Avenue East. There are also residences and residential uses that may contribute to the background noise levels that exist adjacent to the site.

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Short Term: Typical building and construction impacts during business hours, including truck traffic, heavy machinery, power tools and hand tools. Construction hours will be consistent with permitting parameters.

Long term: Typical noise commensurate with an elementary school including, bells, student voices, regular vehicle traffic, as well as building mechanical equipment. Mechanical equipment is located in the building or surrounded by a wall to attenuate sound. Noise will generally occur during normal school hours, though there is some use of the play fields by the community on the weekends.

- 3) Proposed measures to reduce or control noise impacts, if any:

The design team includes an acoustic engineer who will be evaluating the anticipated noise levels in the building and on the site. Proposals to reduce or control noise include: siting the building far away from the property line, constructing noise barriers, and installing silencers on mechanical intake and exhaust.

8. LAND AND SHORELINE USE

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe

The shared 40-acre site includes Ballou Junior High and Firgrove Elementary. Residential homes are adjacent to the site to the south and west. Meridian Avenue East and 136th Street East are located east and north of the site. The proposal will not change the existing use and will not have a significant impact on adjacent uses.

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No.

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

- c. Describe any structures on the site.

The site is currently occupied by Ballou Junior High, which is comprised of (3) one-story buildings and (9) portables, as well as the existing Firgrove Elementary School, which is comprised of (2) one-story buildings, (10) portables, and a covered play structure.

- d. Will any structures be demolished? If so, what?

The applicant plans to demolish the structures related to the existing Firgrove Elementary School sometime after the 2019-20 school year.

- e. What is the current zoning classification of the site?

Community Center (CC)

- f. What is the current comprehensive plan designation of the site?

Community Center (CC)

- g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

None, except wetland per section 3. WATER.

- i. Approximately how many people would reside or work in the completed project?

The school capacity is designed for 730 students and will include approximately 60 staff members.

- j. Approximately how many people would the completed project displace?

None.

- k. Proposed measures to avoid or reduce displacement impacts, if any:

Not applicable.

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

There is no change of use proposed as part of this project.

- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

Not applicable.

9. HOUSING

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

- c. Proposed measures to reduce or control housing impacts, if any:

Not applicable.

10. AESTHETICS

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed.

30 feet tall; masonry and metal panel.

- b. What views in the immediate vicinity would be altered or obstructed?

None.

- c. Proposed measures to reduce or control aesthetic impacts, if any:

The proposed building is sited in the southwest corner of the 40-acre site owned by the District. There is a considerable setback from both street frontages. Beyond that, the building is only two stories tall, which is much shorter than the forested area that buffers it from the residential properties to the south and west, so it will not have a visual impact on either the streetscape nor adjacent residential properties.

11. LIGHT AND GLARE

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The site luminaires shall consist of building-mount luminaires for walkways around the building and pole-mount luminaires for parking lots and driveways with walkways. The luminaires shall be full-cutoff resulting in zero direct light pollution. The luminaires shall be positioned and shielded for minimal light trespass while maintaining safety.

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

- c. What existing off-site sources of light or glare may affect your proposal?

None.

- d. Proposed measures to reduce or control light and glare impacts, if any:

Site lights will have cut off shields, and building lighting will be controlled by a system that will turn off building lights when not occupied or needed for security purposes.

12. RECREATION

- a. What designated and informal recreational opportunities are in the immediate vicinity?

South Hill Community Park is approximately 3/4 mile west of the project, and contains 2 soccer fields, playgrounds, walking trails and picnic tables. Nathan Chapman trail extends north from South Hill Park and connects with Heritage Recreation Center, that includes lighted playfields, a big toy and restroom facilities.

- b. Would the proposed project displace any existing recreational uses? If so, describe.

Some onsite field and play areas may be temporarily inaccessible during construction.

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

The Firgrove replacement school will include site amenities such as pedestrian walkways, covered play area, play equipment area, and grass field with a walking track.

13. HISTORIC AND CULTURAL PRESERVATION

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

Existing Firgrove Elementary includes two school buildings, not including the portable classroom buildings or covered play shed. The smaller of the two buildings is approx. 6,000 square feet and dates back to the 1930's. The main building is approximately 43,000 square feet and was constructed in 1961. Neither building is listed on a national, state, or local preservation register, nor proposed by the applicant/owner.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known. No professional studies have been conducted at the site by the District.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

The Washington Department of Archaeology and Historic Preservation (DAHP) WISAARD site (Washington Information for Architectural and Archaeological Records Data) was

checked July 11, 2017 for any record of cultural or historic resources on or near the project site. None were identified.

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

In the event that suspected historic or cultural artifacts, or objects of suspected archaeological value are discovered during the course of site development, activity in the immediate area will be stopped until a professional archaeologist can assess the discovery. If the professional archaeologist determines the discovery is archaeological material, the Washington State Department of Archaeology and Historic Preservation (DAHP) procedures would be followed.

14. TRANSPORTATION

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any

The main roadways serving the site consist of SR-161 (Meridian Avenue East), secondary arterial 94th Avenue East, and collector arterial 136th Street East.

Student drop-off/pick-up and visitor access to the site will be via two entrances extending west from Meridian Avenue East. The northern entrance will serve ingress only while the southern entrance will allow egress. During school peak hours, the southern outbound access will only allow right-turn movements; off-peak hours will allow right- and left-turn egress.

Bus and staff ingress/egress will access via 136th Street East.

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Pierce Transit Route 402 provides service approximately 800 feet north of the Firgrove Elementary building with stops at the Meridian Avenue East & 136th Street East intersection. Weekday service is available from 5:43 AM to 8:58 PM with service to/from the Gem Heights area to the Federal Way Transit Center. Weekend service is also available.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

The replacement school will provide approximately 130 marked stalls, with the capacity to park another 50 cars onsite for event parking. These counts do not include the parking stalls at Ballou Junior High or the existing Firgrove Elementary campus.

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

A southbound right-turn pocket or right turn taper may be needed at the northerly inbound entrance on Meridian Avenue East. The applicant will coordinate with WSDOT staff on the design and phasing of said improvement.

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe

Thun Field is located approximately 1.5 miles southeast of the project site, but outside the prescribed Area of Influence.

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

Assuming the school operating at full-capacity (730 students), ITE data suggests 943 AWDT trips. Given the school's bell schedule and based on field counts at the existing location, peak AM hour occurs at 7:30 – 8:30 AM and peak PM hour occurs 3:00 – 4:00 PM.

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

- h. Proposed measures to reduce or control transportation impacts, if any:

Control school peak hour outbound movements to right-turn only; construct a southbound right turn pocket or lane on Meridian Avenue East at the northern entrance.

Implement an offset bell schedule between Firgrove Elementary and Pope Elementary during the 2019-2020 school year when staff and students from Pope Elementary are temporarily housed in the existing Firgrove facilities due to the planned Pope Elementary remodel and expansion project.

15. PUBLIC SERVICES

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

As this project is a replacement of existing public elementary school, same public services that are currently being provided will be maintained (police, fire, refuse, etc.).

- b. Proposed measures to reduce or control direct impacts on public services, if any.

The project site and building are designed in accordance with CPTED (Crime Prevention Through Environmental Design) and to accommodate fire truck access to the building. The new school building will be equipped with security systems, fire detection and alarms, and a complete wet sprinkler fire protection system. Battery backup will provide an emergency power source for egress lighting and alarm systems. Fire flow requirements will be met, as will requirements for emergency responder radio reception.

16. UTILITIES

- a. Circle utilities currently available at the site:

electricity, natural gas, water, refuse service, telephone, sanitary sewer septic-system, other

An on-site sewer lift station will be expanded to support the new elementary school. Franchise communication utilities are also available to the site.

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Gas – Puget Sound Energy
Water – Firgrove Mutual
Storm – private

Electricity – Puget Sound Energy
Sewer – Pierce County

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: *Brian Devereux*

Name of signee: Brian Devereux

Position and Agency/Organization: Facilities Planning Director, Puyallup School District

Date Submitted: 7/13/2017