

2014-191

To: Committee of the Whole, Finance Section
From: Municipal Treasurer
Date: July 9, 2014
Re: Monthly Statement of Revenues and Expenditures for June 2014

BACKGROUND:

As part of our commitment to fiscal transparency and accountability, in January 2012 the monthly financial information was expanded to include explanations for variances that are +/- 5% beyond what might be expected. This should make it easier to decipher whether variances are reasonable and expected, and will also point out potential issues of which the Committee should be aware. The notes in this memorandum tie into the numbers on the Statement of Revenues and Expenditures.

DISCUSSION:

REVENUES

(1) Taxes YTD: \$35,222,609 Budget: \$36,881,251 95.50%

The property tax notices were mailed on May 26 and the due date is July 2.

(2) Grants in Lieu of Taxes

These grants are received at various times of the year, which are usually expected at: Federal Government – late August; University of Victoria – October; Hydro – tax due date.

(3) Services Provided to Other Governments

This payment is received from the Province when we forward the school taxes that we have collected on its behalf. This takes place in July.

(4) Solid Waste YTD: \$1,449,096 Budget: \$1,455,432 99.56%

The solid waste fees are collected on the property tax notice and the total amount billed, rather than collected to June 30, is shown.

(5) Licenses and Permits YTD: \$636,694 Budget: \$787,400 80.86%

This is higher than we might otherwise expect because the dog and business licenses are paid at the beginning of the year and during January the building permit for the Oak Bay High School was received (\$264,645). At June 30 the licenses and permits are as follows:

	Year to Date	Budget	% Collected
Dog licenses	\$58,821	\$60,000	98.04%
Business licenses	\$89,296	\$87,000	102.64%
Building permits	<u>\$473,395</u>	<u>\$615,000</u>	76.97%
	<u>\$621,512</u>	<u>\$762,000</u>	

(6) Fines YTD: \$19,172 Budget: \$32,000 59.91%

Fine revenue is recorded as it is paid, not as the tickets are written, and there is therefore always a lag between what is happening on the streets and the revenue. The Commissionaire has recently noticed that he has been writing fewer tickets. This is due to students no longer being at Camosun and the University, and because people who park in the areas that he has been asked to concentrate are obeying the regulations much better than they used to. Therefore, in future months we can expect the percentage to budget figure to be more normal or even drop below the expected amount.

(7) Rentals YTD: \$187,088 Budget: \$323,000 57.92%

In February the Marina paid its annual payment to cover the foreshore lease annual fee (\$81,305). This covers the payment discussed in (14).

(8) Returns on Investments YTD: \$59,891 Budget: \$175,000 34.22%

The working capital that we have available to invest drops during the first 5 months of the year, and then once the property tax notices are mailed our invested money increases again. It is therefore usual for our investment returns to be under budget the first half of the year.

(9) Penalties and Interest on Taxes YTD: \$4,295 Budget: \$114,000 3.77%

Penalties account for \$100,000 of the budget. These are brought into revenue in July, after the tax due date, and will be charged on all outstanding 2014 property taxes. The interest is reflected in income as taxes from 2013 and 2012 are paid off.

(10) Transfers from Reserve Funds YTD: \$0 Budget: \$1,905,051

Transfers from our own reserve funds are made at the end of the year. This is done for two reasons: most of the transfers fund particular projects and if monthly transfers were to be made, it would involve a great deal of additional accounting work without any real benefit, and, for those funds which are in statutory reserves, by keeping the money in the reserves until the year-end, the reserves earn interest on that money.

(11) Miscellaneous Other Revenues YTD: \$31,788 Budget: \$596,961 5.32%

\$300,000 of the budget is made up of internal transfers. These take place at the end of the year, and show up as an expense of the same amount in "Transfer to own Reserves and

Utilities" line under expenditures. Another \$150,000 of the budget represents the short term loan which will be entered into to fund the purchase of the breathing apparatus for the Fire Department.

(12) Cond. Transfers from Other Gov'ts YTD: \$357,744 Budget: \$1,214,917 29.45%

A capital grant for Bowker Creek remediation work accounts for \$738,000 of the budget. \$288,873 of the budget is made up of grants provided to small municipalities, which were received in June.

EXPENDITURES

(13) General Administration YTD: \$570,935 Budget: \$1,413,147 40.40%

The budget in this category includes consulting money, a large percentage of which has not yet been spent, and money to be reserved for future computer equipment replacements, which has not yet been transferred.

(14) Other General Government YTD: \$384,559 Budget: \$892,705 43.08%

This category includes the budgets for the grants, which are paid out in July, carbon offsets which are recorded in December and the election.

(15) Emergency Preparedness YTD: \$38,044 Budget: \$106,508 35.72%

The training, contracts and transfer to reserve to cover the future purchase of a new vehicle are all under budget.

(16) Building Dept., Bylaw Enforcement, Animals

YTD: \$245,750 Budget: \$590,627 41.61%

The budget for sundry contracts has only a small amount charged to it to date.

(17) Common Services (Engineering) YTD: \$522,543 Budget: \$1,190,347 43.90%

Consulting and software replacement accounts are underbudget in the Engineering budget; in addition, transfers to reserves for future equipment replacement do not take place until the end of the year.

(18) Roads, Sidewalks, Transportation YTD: \$651,075 Budget: \$1,640,737 39.68%

Included in these expenses is the leaf pickup program. Due to last year's dry weather, most of the leaves were picked up during 2013 and the rest of the 2014 budget will not be spent until the fall of this year.

(19) Garbage Collection & Disposal YTD: \$533,034 Budget: \$1,239,458 43.01%

The June tipping fees will be paid in July.

(20) Other Recreational & Cultural Services YTD: \$63,128 Budget: \$94,553 66.76%

The money that has been spent is mainly for the foreshore lease which is paid every January. This is for the foreshore at the Oak Bay Marina, and we are reimbursed for it through our rental revenue from them.

(21) Debt Charges YTD: \$136,702 Budget: \$447,242 30.57%

The annual principal payment on MFA debt of \$144,000 is made in October. The other reason for the actual costs being low compared to budget is that the Fire Department's breathing apparatus has not yet been purchased. When it is, part of the funding will come from a lease, for which \$31,600 has been budgeted.

(22) Transfers to Own Reserves YTD: \$615,348 Budget: \$2,990,588 20.58%

A monthly transfer is made to the Sewer Fund. In July a number of the one-time transfers to the Capital Works Replacement Reserve Fund will be made, but the largest transfers will be carried out at the end of the year.

(23) Transfer to Library, Social Grants YTD: \$649,759 Budget: \$984,634 65.99%

Under the terms of the Library Agreement, we have to pay the library two months in advance. Therefore, the amount paid by the end of June covers the rent to the end of August.

(24) Capital Expenditures YTD: \$1,070,562 Budget: \$3,398,777 31.50%

Until the budget was adopted in May, only capital projects that had received early approval from Council could proceed. Please see the Capital Projects Financial Report for a summary of the projects.

(25) Transmit Taxes to Others YTD: \$0 Budget: \$16,391,206

Taxes that are collected on behalf of other organizations are not passed onto them until after the tax due date.

(26) Misc. Other Services YTD: \$114,469 Budget: \$417,225 27.44%

The money that has been spent was for the removal of Christmas decorations, various committees, the Oak Bay Tea Party and the payment of retirement allowances.

WATER UTILITY FUND

(27) Water Revenues YTD: \$1,271,316 Budget: \$3,396,183 37.43%

Until the weather became hotter, and more water was used outside, we expected the actual revenue to be low. Since bills are only issued every four months, it will take a while before we have recorded the income from the higher water usage.

(28) Internal Revenues YTD: \$0 Budget: \$340,552

These internal revenues come from our own reserve funds. Please see the explanation above regarding "Transfers from Reserve Funds".

(29) Water Supply and Operation YTD: \$869,523 Budget: \$2,716,315 32.01%

\$1,952,000 of the budget is for the purchase of water from the CRD. The bill for each month's water is received the following month, and therefore the actual figure is low.

SEWER UTILITY FUND

(30) Sewer Revenues YTD: \$630,210 Budget: \$1,671,057 37.71%

The sewer revenues are calculated using the amount of water used, which is lower in the months leading up to summer. Until April, the amounts billed are calculated using a blend of the 2013 and 2014 rates. See #27 for further information.

(31) Internal Revenues YTD: \$615,348 Budget: \$1,586,937 38.78%

A monthly transfer is made from the General Fund to the Sewer Fund. The remaining transfers from reserves are made at the end of the year, when the cost of the capital projects that they are funding are known.

(32) Grants YTD: \$0 Budget: \$531,324

The gas tax revenue transfer is given to us in two payments. Usually we receive them in July and December.

(33) Sewer Supply and Operation YTD: \$163,991 Budget: \$3,355,543 4.89%

\$1,957,995 of the budget is the July payment that is made to the CRD for its costs to run the sewer system. Another \$921,324 is the transfer to the Capital Works Reserve for the funding of future sewer work, and the transfer takes place at the end of the year.

RECOMMENDATION:

Once Committee members have received answers to any questions they might have, I recommend that the June, 2014 financial report be received.



Patricia Walker
Municipal Treasurer

I concur with the recommendation of the Municipal Treasurer



Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

MEMORANDUM

2014-192

TO: Committee of the Whole
FROM: Director of Engineering Services
DATE: July 4, 2014
RE: Traffic Study Report – Intersection of Cadboro Bay Road and Thompson Avenue

BACKGROUND:

The above intersection has Neil Street to the north, Allenby Street to the south and Nottingham Road to the east. Cadboro Bay Road is an arterial road with an existing crosswalk at the south side of this intersection. Many children attending Willows School use this crosswalk.

Over the last past 17 years, there have been 7 reported collisions at this intersection. One senior resident was hit twice while using this crosswalk. New street lighting was added for this crosswalk as a result of those pedestrian incidents.

Local residents requested relocating the crosswalk to the north side of this intersection. Staff conducted studies and recommended to keep the crosswalk at the current location and extend the sidewalk on Thompson Avenue.

An independent assessment was undertaken to evaluate all the pertinent parameters around this intersection. (See attachment # 1). The study presents two viable options - option 1 and option 2. Option 1 is upgradable to option 2. It is staff's opinion that option 1 would yield a satisfactory solution that could be implemented and observed before considering moving on with option 2.

DISCUSSION:

The consultant 's report is attached and shows 3 options:

Option 1: Minimum Improvement

Add curb extension at the southeast quadrant of this intersection; realign existing crosswalk; add bike lane on Cadboro Bay Road; extend sidewalk on Thompson Avenue. Estimated cost for this option is \$47,500.00

Option 2: Preferred Improvement

This option is an extension of option 1. Re-channelize westbound traffic on Thompson Avenue; lengthen southbound left turn lane on Cadboro Bay Road. This option will change this intersection to a more traditional intersection with significant safety improvements. Estimated cost for this option is \$135,500.00

Option 3: Roundabout

After considering bike lanes, driveways and bus traffic, this option is not warranted and not feasible. Estimated cost for this option is \$280,500.00

OPTIONS:

1. That it be recommended to Council that the estimated cost of \$47,500, for Option 1 as laid out in the memorandum from the Director of Engineering Services dated July 4, 2014 be referred to Estimates Committee for 2015 budget deliberations.
2. That it be recommended to Council that the estimated cost of \$135,000, for Option 2 as laid out in the memorandum from the Director of Engineering Services dated July 4, 2014 be referred to Estimates Committee for 2015 budget deliberations.
3. That it be recommended to Council that the estimated cost of \$280,500, for Option 3 as laid out in the memorandum from the Director of Engineering Services dated July 4, 2014 be referred to Estimates Committee for 2015 budget deliberations.
4. That this report be received for information.

FINANCIAL IMPACT:

As noted under "discussion".

RECOMMENDATION(S):

That it be recommended to Council that the estimated cost of \$47,500, for Option 1 as laid out in the memorandum from the Director of Engineering Services dated July 4, 2014 be referred to Estimates Committee for 2015 budget deliberations.

Respectfully Submitted,



D. Marshall B.Sc., A.Sc.T.
Director of Engineering Services

Source of Funds/I concur with the recommendation of the Director of Engineering Services.



Patricia Walker
Municipal Treasurer

I concur with the recommendation of the Director of Engineering Services.



Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

Attachment:

Cadboro Bay Road / Thompson Avenue, Oak Bay, BC. Intersection Operation & Safety Assessment
FINAL REPORT



Adept Transportation Solutions

PLANNING AND ENGINEERING

**Cadboro Bay Road / Thompson Avenue,
Oak Bay, BC**

**Intersection Operation & Safety
Assessment**

FINAL REPORT

Prepared for:

District of Oak Bay

Date:

July 3, 2014


Prepared by:

Adept Transportation Solutions

Project No. OB-1001



W. Wayne Gibson, CTech
Senior Transportation Technician



Elizabeth Lau, P.Eng
Senior Transportation Engineer

BACKGROUND

Adept Transportation Solutions (Adept) was engaged to conduct an independent review of the intersection Cadboro Bay Road / Thompson Avenue, in the District of Oak Bay, BC.

Our understanding of this assignment is that the subject intersection, in its present configuration, may pose issues for pedestrians, cyclists and drivers. As seen in Exhibit 1 below, Neil Street to the north, Allenby Street to the south and Nottingham Road to the east, all intersect in close proximity to the main intersection, resulting in wide intersection approaches and a high number of overall conflict points for vehicles, cyclists and pedestrians.

Of particular interest is the location of the existing pedestrian crosswalk. District staff has indicated that there has been some discussion regarding the placement of the crosswalk following two incidents of a pedestrian being struck while in the crosswalk.

EXHIBIT 1 - Study Intersection



EXISTING ROADWAY

In the vicinity of the subject intersection, Cadboro Bay Road consists of a single travel lane in each direction with concrete curb and gutter. There are sidewalks on both sides of the road and the posted speed is 50km/h. There is a dedicated southbound left turn lane at the Cadboro Bay Road intersection approach to Thompson Avenue. The left turn storage length is limited to approximately 10m in length as it is back to back with the 10m northbound left turn storage lane on Cadboro Bay Road onto Neil Street.

Thompson Avenue also consists of one travel lane in each direction with a sidewalk on the northeast side of the road only. On-street parking is permitted on both sides of the road and the posted speed is 40km/h.

Nottingham Road has one travel lane in each direction; however, there are separate right and left turn lanes at the intersection with Thompson Avenue. There are sidewalks on both sides of the street but the north side sidewalk terminates approximately 45m east of Thompson Avenue. The posted speed is 40km/h.

COLLISION HISTORY

Historical collision data was provided by the District for this study. The data set was from February 1997 onward. Over the 17 year period, there have been a total of 7 reported collisions at the intersection. None of the collisions reported a fatality and 5 of the collisions resulted in personal injury. The extent of any property damage or injuries was not contained in the reports.

Typically, collision statistics are reviewed over the most recent 5 years. According to the data provided, there have been two collisions in the past five years. There was insufficient detail in the reports to identify any trends. Based on the data provided, the intersection collision rate is found to be well below the provincial average.

TRAFFIC VOLUMES

AM and PM Peak Period traffic volume counts were conducted on Wednesday, March 5th, 2014 and included pedestrian and cyclist counts.

The AM Peak Hour occurred between 8:00am – 9:00am and the PM Peak Hour occurred between 3:30pm–4:30pm. These peak periods are typical for intersections in proximity to schools. In this case, the adjacent Willows Elementary School generates peak traffic through the Cadboro Bay Road / Thompson Avenue intersection coinciding with student arrival and dismissal times. The AM and PM Peak Hour traffic volumes and movements are illustrated in **Exhibits 2 and 3** below:

EXHIBIT 2 - AM Peak Hour Traffic Volumes

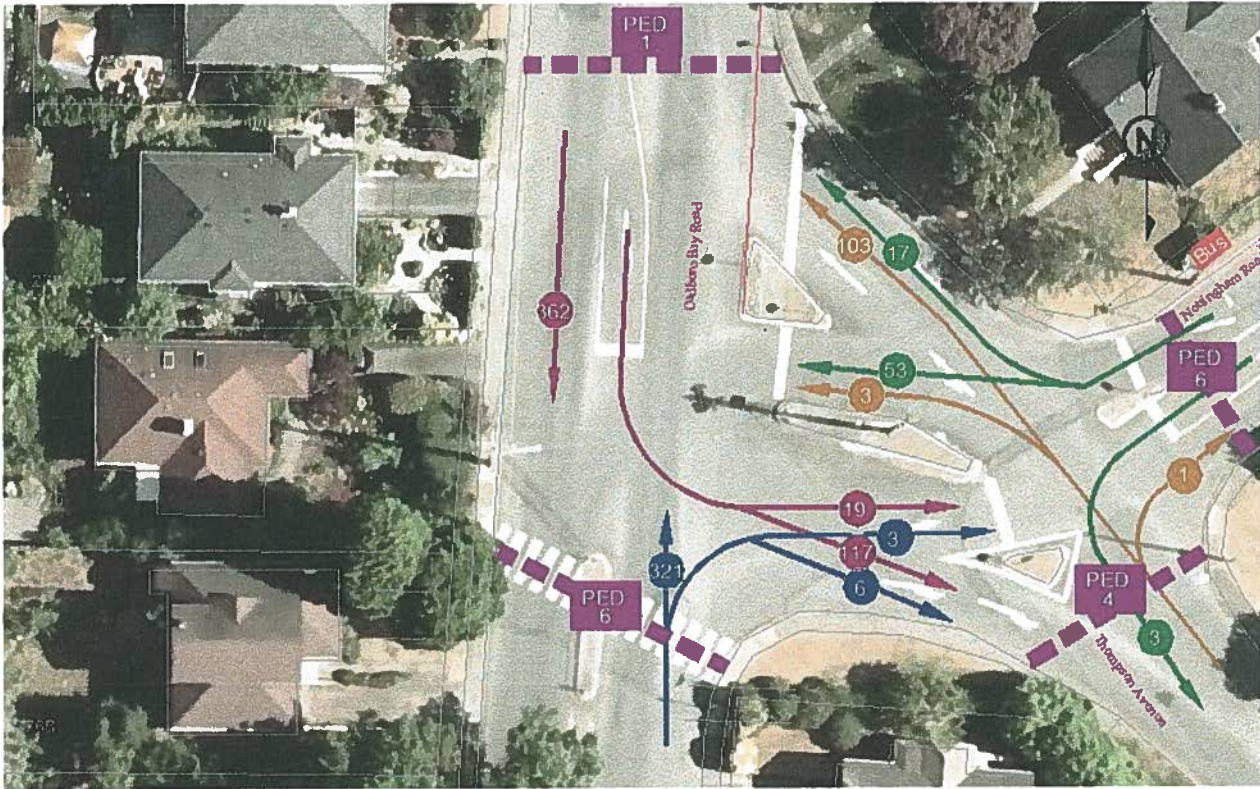
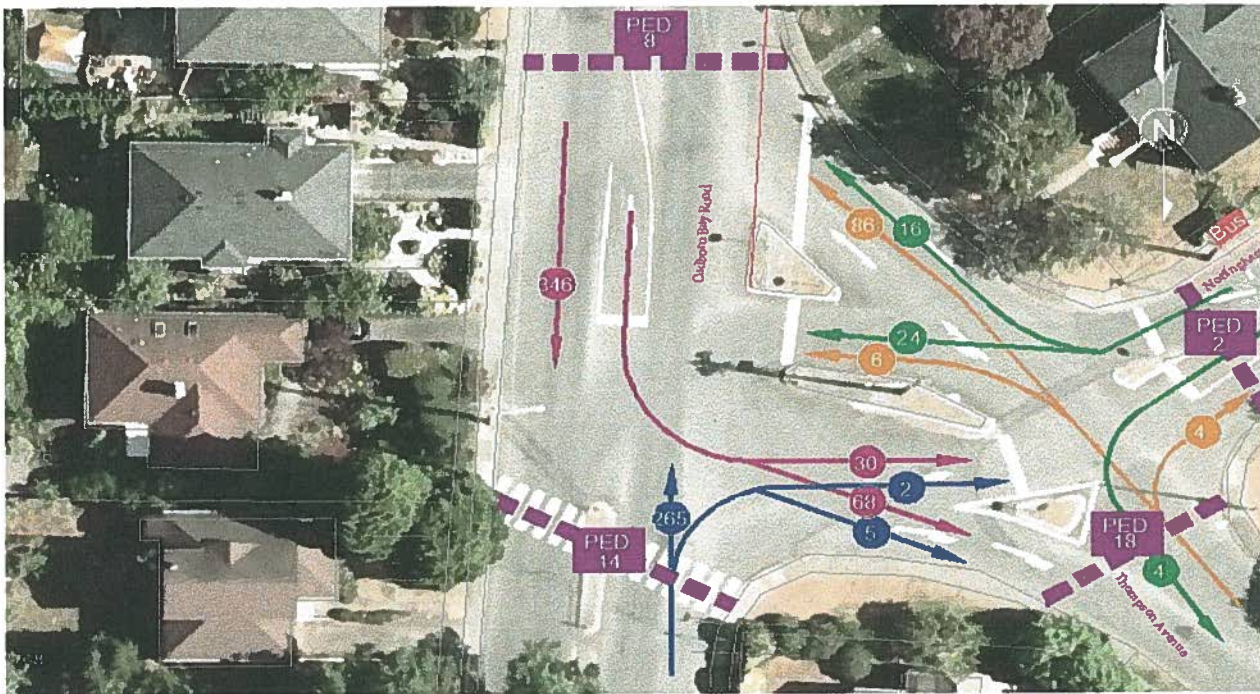


EXHIBIT 3 - PM Peak Hour Traffic Volumes



WALKING

As discussed earlier, there are concrete sidewalks along Cadboro Bay Road, Thompson Avenue and Nottingham Road, in close proximity to the study intersection. The sidewalk on the west side of Thompson Avenue is discontinuous. This is described in more detail in the following section. There is a marked pedestrian crosswalk across the south (Cadboro Bay Road) leg of the intersection only.

The bus stop on Nottingham Road generates pedestrian traffic. During observation periods, the stop was well utilized. Pedestrians boarding and alighting at the stop arrived / departed in various directions and generally all crossed at least one road without a marked crosswalk. In fact, some pedestrians were observed walking within the Thompson Avenue vehicle travel lanes toward Cadboro Bay Road.



TRANSIT

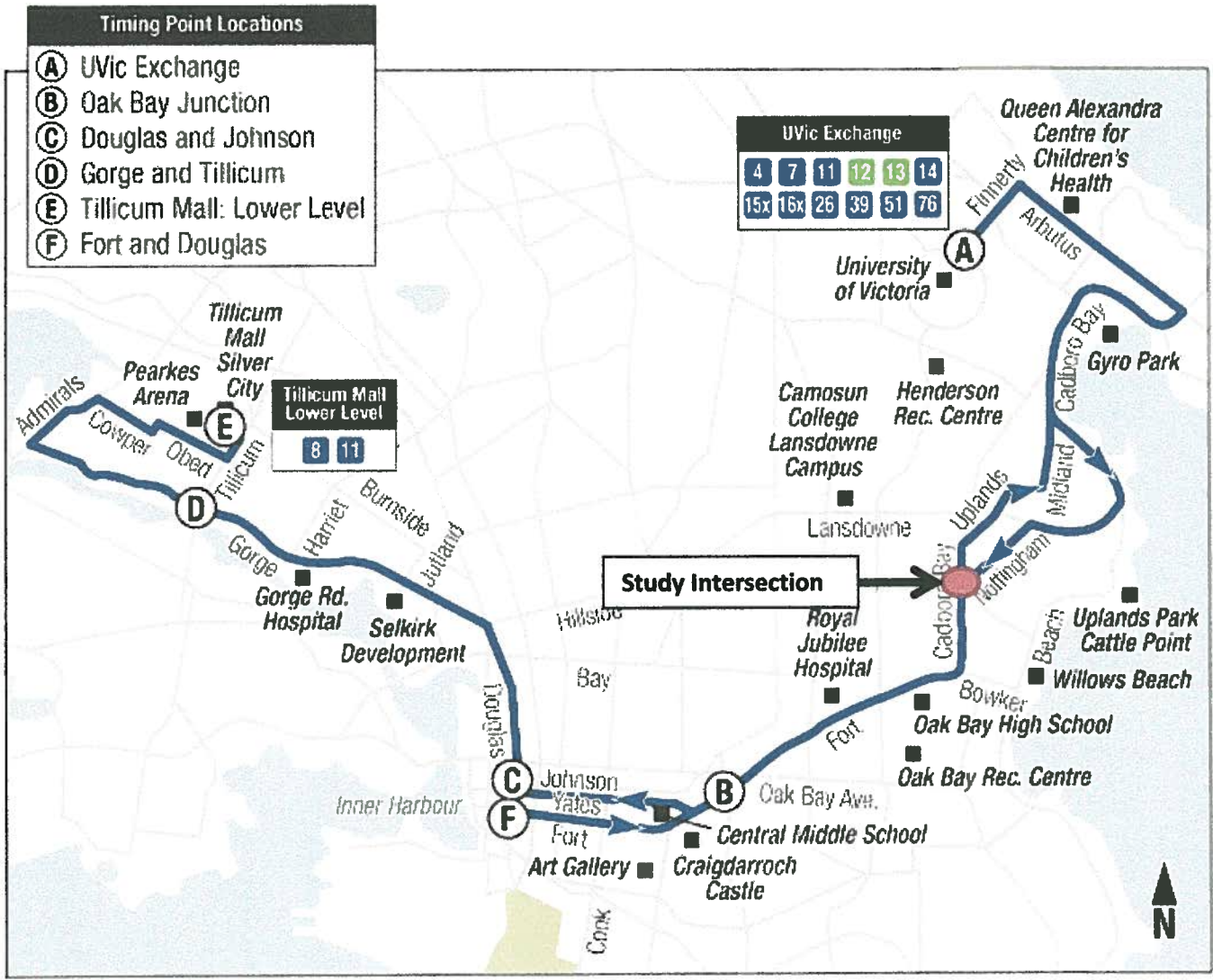
As shown in **Exhibit 4**, the Route 11 — “Tillicum Mall/UVIC” BC Transit bus travels northbound through the Cadboro Bay Road / Thompson Avenue intersection. There is a northbound stop approximately 80m north of the Thompson Avenue intersection

In the southbound direction, the bus routes along Beach Drive to Lansdowne Road and continues to Nottingham Road and then makes a westbound left turn from Thompson Avenue onto Cadboro Bay Road.

There is a westbound bus stop on the north side of Nottingham Road, at the intersection of Thompson Avenue / Nottingham intersection.

There is a southbound stop on Cadboro Bay Road, approximately 125m south of the Thompson Avenue intersection

EXHIBIT 4 - BC Transit Route #11 Map



CYCLING

Cadboro Bay Road is identified in the Capital Regional District's Pedestrian and Cycling Master Plan (PCMP) as a designated Primary Inter Community (PIC) cycling route, providing connectivity to the Camosun College Lansdowne Campus and UVIC for Oak Bay and Victoria residents. The recommended treatment for the corridor is the provision of separated on-street facilities. Within the PCMP, separated on-street facilities are defined as buffered cycling lanes or cycle tracks, as seen below:

Separated On-Street Bicycle Facilities

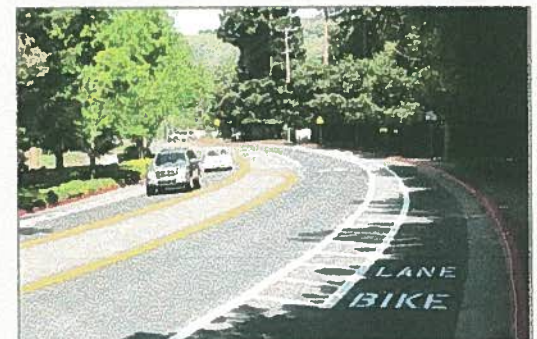
Cycle Tracks

Cycle tracks are a hybrid bicycle facility combining the experience of a separated path with the on-street infrastructure of a conventional bike lane. Cycle tracks utilize a variety of applications such as parking placement, channelization, mountable curbs, bollards and pavement markings, and grade separation.



Buffered Bicycle Lanes

Buffered bicycle lanes are designed to increase the space between the bicycle lanes and the travel lane or parked cars. They are appropriate on streets with high automobile traffic volumes and speeds, on-street parked cars, and high volumes of truck or oversized vehicle traffic.



As Cadboro Bay Road provides direct access to a number of residential driveways, it would not be practical to install a Cycle Track along the corridor. Additionally, the construction costs associated with Cycle Tracks along Cadboro Bay Road would be significant. Based on these considerations, Buffered Bicycle Lanes would provide a more practical alternative at this time.

OBSERVED INTERSECTION ISSUES

A number of minor issues with the intersection operation in its' current configuration were observed. The notable issues are identified by number on the following Exhibit 5 and a description of the issues follows.

EXHIBIT 5: Existing Issue Identification



- 1) Pedestrians cross without a marked crosswalk,
- 2) Wide lane with dual markings; left lane is utilized by vehicles destined for Neil Street; however, when two vehicles are abreast, turning sight distance is restricted for vehicles in the curb lane. This condition is atypical and would be confusing to drivers that are unfamiliar with the intersection.
- 3) Short vehicle stacking distance - one transit bus fills the available storage and vehicles were observed blocking the Thompson Avenue thru / right turn lanes.
- 4) No marked crosswalk near bus stop.
- 5) No marked crosswalk.
- 6) Sight distance limited at pedestrian holding area by parked vehicles on Cadboro Bay Road, south of the crosswalk. The skewed crosswalk increases the pedestrian crossing distance and exposure to conflicting vehicles.

- 7) Drivers were confused by the stop sign for the Nottingham Road through movement and stopped at the free right turn. This could lead to rear end collisions.
- 8) No marked crosswalk. Observed northbound vehicle travel speeds appeared high through the intersection.
- 9) The sidewalk on west side of Thompson Avenue terminates near the intersection with Nottingham Road, deterring continuous pedestrian mobility. Pedestrians are likely to cross to the east side at this location to utilize the east side sidewalk to continue south on Thompson Avenue.
- 10) Wide travel lane encourages higher vehicle speed.

EXISTING CADBORO BAY ROAD CROSSWALK LOCATION

The existing Cadboro Bay Road crosswalk location, south of the intersection with Thompson Avenue was assessed based on roadway geometrics and field observations as well as an analysis of vehicle traffic volumes at the intersection.

The subject intersection(s) need to be upgraded to enhance the pedestrian environment and better serve bicyclists

Although some pedestrians were observed crossing Cadboro Bay Road, north of the Thompson Avenue intersection, the traffic count data confirms that there are higher traffic volumes at that leg of the intersection; hence, a higher potential for pedestrian / vehicle conflicts. Additionally, with the back to back left turn lanes, a crosswalk would only be practical to the north of the Neil Street intersection. This should only be considered if the existing crosswalk were removed, which is not recommended.

PROPOSED INTERSECTION IMPROVEMENT OPTIONS

According to our traffic count data, the dominant side street traffic movement is to/from the Thompson Avenue intersection leg. Given this condition, it is proposed that any intersection design maintain right of way for these movements to minimize overall intersection delay.

For each option, it is recommended that the west side sidewalk on Thompson Avenue be extended to the south for a minimum distance of 50m. This distance is the minimum distance that a driver needs to come to a stop for a 40km/h posted speed.

Option 1- Minimum Improvement

This lowest cost option is intended as an interim measure to mitigate some of the pedestrian safety concerns that were noted; particularly the limited visibility at the east side of the existing crosswalk. The option calls for a curb extension at the southeast quadrant of the intersection. The curb extension would improve visibility for northbound approaching drivers as well as for pedestrians looking south for approaching vehicles. The crosswalk is to be realigned; reducing the crossing distance by approximately 3.5 metres. Reduced travel lane widths are shown to result in lower vehicle travel speeds.

Another consideration at the intersection would be the marking of dedicated bike lanes. The markings would provide a safe area for cyclists and would also visually narrow the vehicle travel lanes at the Cadboro Bay Road intersection approaches. In this option, 1.8m wide bike lanes are shown, with an accompanying painted buffer



strip 0.4m wide. On the southeast side of the intersection, parallel on-street parking is maintained with a 2.5m stall width.

Ideally, the crosswalk could be fitted with solar powered crosswalk beacons to further alert approaching drivers of pedestrian crossing activity.

Option 2 – Preferred Improvement

Option 2 is an extension of the Option 1 construction. This higher cost option has significant safety benefits. Overall, vehicle conflict points are reduced and the intersection design is much more traditional, eliminating the confusion experienced under the current laning design. Under this design scenario, pedestrians are provided with sufficient marked crosswalks to safely continue their walk trip in any direction.

The design also accommodates existing infrastructure (i.e. Hydro Poles) and three of the existing channelization medians would be removed. The design also allows for the straightening of the south leg crosswalk and maintains the centre refuge area. The pedestrian crossing distance is further reduced by a total of approximately 4metres and the southbound left turn lane on Cadboro Bay Road can be lengthened to 15m, which many jurisdictions consider a minimum length.

As with Option 1, buffered bike lanes are depicted along Cadboro Bay Road. With this option, cyclist exposure to vehicle conflicts is greatly reduced.

Landscaping and / or stormwater management design such as rain gardens can be implemented in the reclaimed pavement areas.

Option 3 – Roundabout

An option for a single lane roundabout option was explored. Typically, roundabouts are installed where traffic signals would be warranted, or on roads that traffic calming is desired. Based on the existing traffic volumes, signalization or roundabout is not warranted for this intersection. While the existing traffic volumes could be easily handled by a roundabout intersection; given the property constraints, it is not feasible to design an effective laning configuration for the Thompson Avenue / Nottingham Road intersection within the existing right of way to effectively maintain priority for the Thompson Avenue approach. Vehicles could potentially stack waiting to make the left turn movement onto Nottingham Road, which could interfere with the roundabout operation.

Further, a BC Transit bus would be required to mount the internal circle apron, which would cause discomfort for passengers. Marked "Buffered" bicycle lanes through the intersection would not be appropriate; therefore, cyclists comfort through the intersection could be compromised. Additional consideration is the existing On-Street parking that would be displaced on the west side of Cadboro Bay Road.

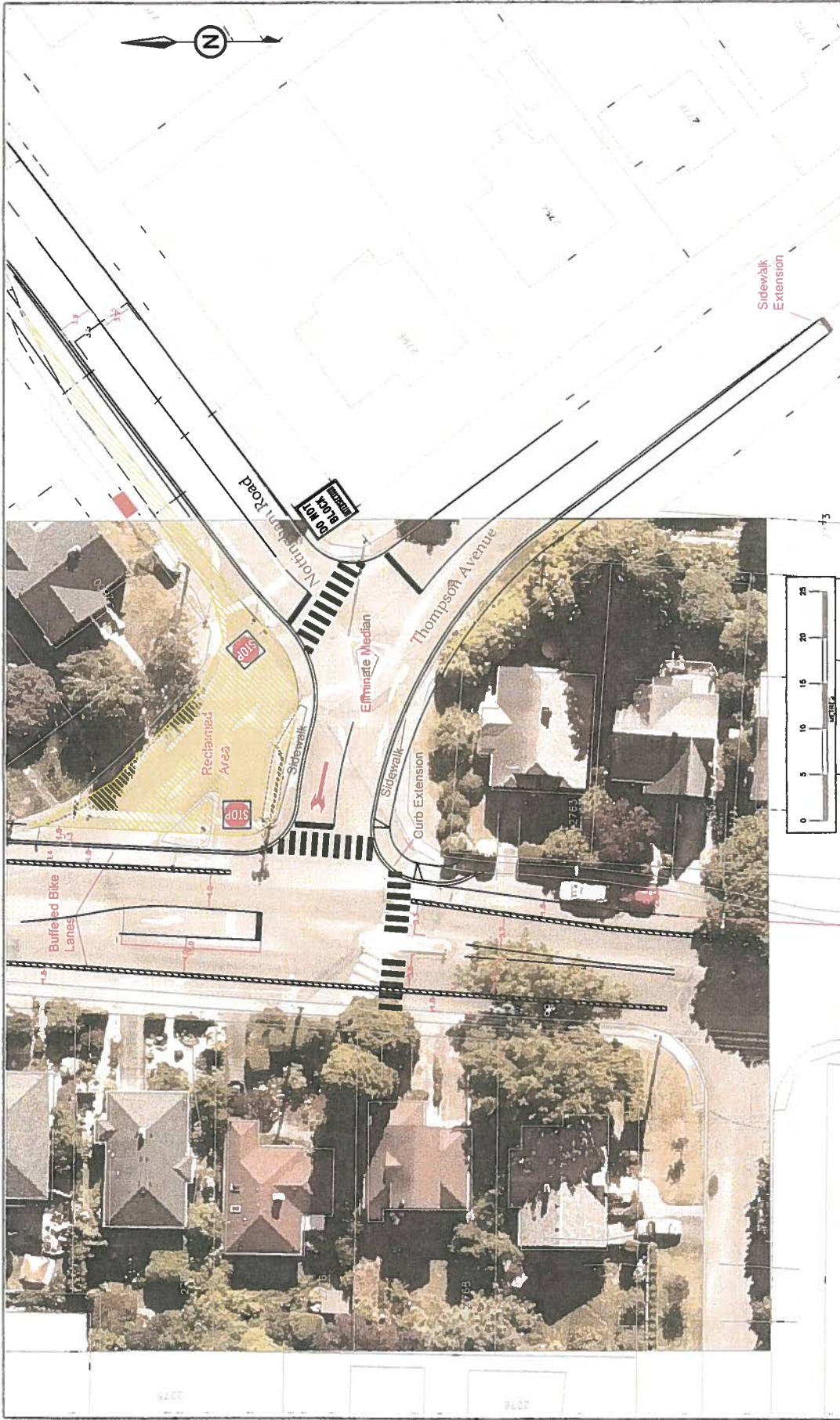
Based on our study findings, we have presented the three analyzed options to mitigate the observed issues which are presented in **Attachments 1, 2 and 3** on the following pages.



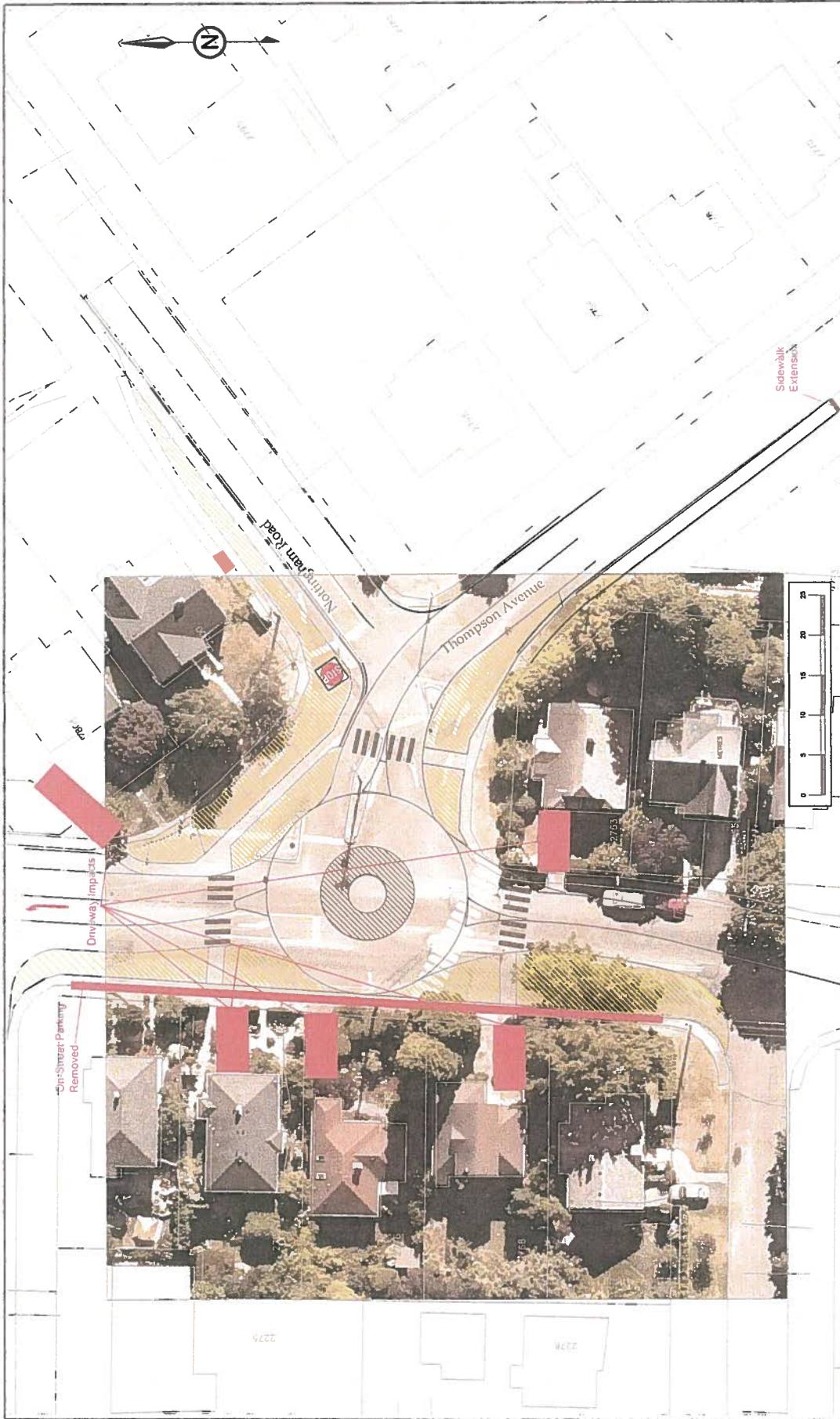
Cadboro Bay Road / Thompson Avenue / Nottingham Road Intersection
 Potential Safety Improvements - Option 1

ATTACHMENT 1

PRELIMINARY CONCEPT PLAN - NOT FOR CONSTRUCTION



Cadboro Bay Road / Thompson Avenue / Nottingham Road Intersection
 Potential Safety Improvements - Option 2
 PRELIMINARY CONCEPT PLAN - NOT FOR CONSTRUCTION
 ATTACHMENT 2



Cadboro Bay Road / Thompson Avenue / Nottingham Road Intersection
 Potential Safety Improvements - Option 3

PRELIMINARY CONCEPT PLAN - NOT FOR CONSTRUCTION

ATTACHMENT 3



CONSTRUCTION COST ESTIMATES

Preliminary "Class D" construction cost estimates provided below are based on unit costs provided by the District of Oak Bay and experience in similar projects. A Class D estimate provides a rough cost projection used for budget planning purposes in the early stages of concept development of a project. A 30% contingency has been applied to each option estimate to cover engineering design and unforeseen additional construction tasks. Actual costs would be determined in the detailed design stage.

Common - extend sidewalk on Thompson by 50m

90 m2 @ 1.8m

excavation	\$6,750.00	
construction	\$9,000.00	30% Contingency
	\$15,750.00	\$20,500.00

Option 1

excavation	\$8,250.00	
Curb & Sidewalk	\$8,788.00	
road paint	\$3,500.00	30% Contingency
	\$20,538.00	\$27,000.00

Option 2

excavation	\$37,500.00	
Curb & Sidewalk	\$24,500.00	
road paint	\$5,000.00	
planted beds	\$20,125.00	30% Contingency
	\$87,125.00	\$115,000.00

Option 3

Lum Sum	\$200,000.00	\$260,000.00
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Total with sidewalk extension
\$47,500.00
\$135,500.00
\$280,500.00

** If Solar Powered flashing crosswalk beacons are considered, the cost associated with the hardware would be an approximate additional cost of \$25,000.*



CONCLUSIONS

Based on the assessment above, a number of minor issues with the intersection operation in its' current configuration were observed. Although the collision statistics provided for this study does not indicate a high frequency or any identifiable crash patterns, observations revealed that there are a number of safety enhancements that should be considered at the intersection. The immediate concern relates to the Cadboro Bay Road crosswalk. There is limited visibility for pedestrians on the east side of the crosswalk to observe oncoming traffic.

Option 1 shows a curb extension on the east side of the crosswalk to improve visibility for pedestrians and approaching drivers.

Option 2 shows an extensive reconfiguration of the intersections of Cadboro Bay Road / Thompson Avenue / Nottingham Road. This option provides enhanced pedestrian and cyclist facilities and reduces the number of vehicle conflict points.

Option 3 shows a roundabout intersection concept. While Roundabouts have proven attributes in operational efficiency and traffic calming, a roundabout is typically installed where traffic signals would be warranted, which is not the case at this intersection. Also, due to property constraints, it is not feasible to design an effective laning configuration for the Thompson Avenue / Nottingham Road intersection to maintain existing right of way priority for the Thompson Avenue approach. Vehicles could potentially stack waiting to make the left turn movement onto Nottingham Road, which could interfere with the roundabout operation.

The impact on existing driveways would require reconciliation. Other potential issues were noted regarding transit and cyclist limitations with this option.

RECOMENDATIONS

Based on the assessment above, it is recommended that the conceptual design option shown in **Attachment 1** be considered as an interim solution. This design would improve pedestrian safety by enhancing their visibility at the east side holding area which is currently compromised by parked vehicles on Cadboro Bay Road. The proposed bicycle lanes and curb extension would also narrow the vehicle travel lane which can reduce travel speeds through the intersection. The curb extension would also shorten the pedestrian crossing distance. Installation of solar powered crosswalk flashers would also increase awareness of pedestrian crossing activity for approaching drivers.

The second option, shown in **Attachment 2**, effectively mitigates all of the observed issues at the intersection(s). This option also provides an opportunity to reclaim some the existing pavement areas and which could be used to enhance the aesthetic appeal in the immediate area and could also provide opportunities for enhanced stormwater management. Based on our assessment, Option 2 is the preferred option in this case.

2014-193

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 9, 2014
RE: Development Variance Permit Application– 820 Victoria Avenue
Lot 5, Section 22, Victoria District, Plan 74A, EXEMPT SEC 339 (K) M A
P-2, Special Institutional Use

BACKGROUND:

St Michael's University School having their junior school at 820 Victoria Avenue have proposed a new school to replace the existing building. The application was presented at the Committee of the Whole April 21, 2014 and the application was deferred pending further information on the proposed wall, traffic study and the impact to the neighbours in the vicinity of 820 Victoria Avenue.

The applicant has now returned with new plans showing a change to the north elevation by moving a portion of the north wall back to the required setback. (Variance still required for other portion) Their proposal has three variations of the proposed fence/north wall on the north side of the property and would be prepared to construct which ever one the neighbours would like to see. Included in the new information is a parking and traffic circulation review completed by Boulevard Transportation dated July 2, 2014 as attached.

DISCUSSION:

As the P-2 zoning is institutional, development permit requirements are not applicable under the *Local Government Act*. This application is considered a development variance permit involving side lot line setback variances.

The applicants have held three open houses as part of an extensive community consultation process. Input from the community has been considered in the design proposal in relationship to parking, traffic and access.

As this is a major development in a residential setting, consideration should be given to how the applicant could facilitate notifying the community of this proposal. Council may also wish to consider additional community notification to that required by legislation.

The applicants are requesting relief from the following section(s) of Zoning Bylaw #3531:

<u>Zoning By-law Section(s)</u>	<u>Required/Permitted</u>	<u>Requested</u>	<u>Variance</u>
11.2.5.(1)(c) Minimum Interior side lot line setback (north)	7.62 m (25ft)	4.57m (15 ft)	3.05m (10 ft)

11.2.5.(1)(c) Minimum Interior side lot line setback (south)	7.62 m (25ft)	3.96 m (13 ft)	3.66m (12 ft)
11.2.5.(1)(e) Minimum total of side lot lines	22m (72.3 ft)	8.53 m (72.3 ft)	13.47m(44 ft)

Imperial measurements are approximate and for convenience only.

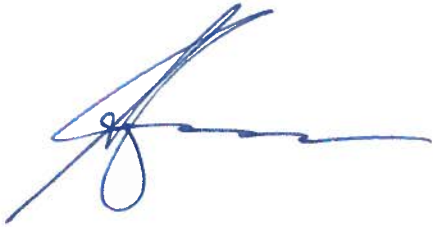
OPTIONS:

1. That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.
2. That it be recommended to Council that the application be denied.

RECOMMENDATION:

That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.

Respectfully Submitted,



Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.



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Municipal Clerk/Deputy Chief Administrative Officer

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MERRICK

July 4, 2014

VIA: *Hardcopy*

Roy Thomassen
Director of Building and Planning
Oak Bay Municipal Hall
2167 Oak Bay Avenue
Victoria, BC, V8R 1G2
Email: rthomassen@oakbay.ca

Attention: Mayor & Council and The Board of Variance

**RE: ST. MICHAELS UNIVERSITY SCHOOL – JUNIOR SCHOOL, 820 VICTORIA AVENUE
DEVELOPMENT VARIANCE PERMIT APPLICATION – PROJECT REVISIONS
Project No: 1350**

Merrick Architecture, on behalf of our client St. Michaels University School, is pleased to submit for your consideration the attached revisions to the Development Variance Permit Application for a proposed new Junior School at the existing school's site at 820 Victoria Avenue. We last appeared before the Committee on April 22nd, 2014 seeking a variance to the sideyard setbacks for the proposed new Junior School. In this P-2 Institutional zone, a Development Permit is not required; however we feel that the requested variances will allow for the realization of a more suitable and predominantly ground oriented facility, with a significantly smaller second floor program than is more in keeping with the residential context than the allowable 2 storey configuration permitted by the existing zoning and within the existing setbacks.

These revisions have been undertaken in response to the motions passed at last Committee meeting. The motion stated:

"A discussion ensued in regards to parking and traffic issues associated with the school and the redevelopment proposal. It was felt that the application should be deferred until more information in regard to the specifics of the proposed wall on the north side, a traffic study, options and impacts of revising the setbacks, and/or the rationale for the current setbacks, and renderings depicting the adjacent residential properties have been obtained."

REVISIONS TO THE DEVELOPMENT VARIANCE PERMIT APPLICATION

Since the last Committee Meeting, the following items related directly to the Development Variance Permit Application have been undertaken:

1. Convened meetings with all five of the immediate neighbors along the Northern Property line to review the implications of the originally proposed setback variances, **illustrated with comparative perspective views** taken from the projects 3d model. As a result of these meetings, we have reduced the extent of the variance request along the Northern Property line.
2. Revised the Landscape Plan to coordinate with the above noted reduction to the variance request, and illustrated **3 fencing & wall alternatives** for the North Property line. The final configuration and extent of which can be selected with direct input from the affected neighbors at the time of construction.
3. Added a **Shadow Study** analysis showing the impact of the revised proposal.

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PARKING, TRAFFIC & NEIGHBORHOOD INITIATIVES

In addition to the above noted items, St. Michaels Junior School has also enacted several initiatives which are separate from the Development Variance Permit application to further address neighborhood concerns which include:

1. Completed a **Parking and Traffic Circulation Review** (*Boulevard Transportation*) whose recommendations have been incorporated into the attached revisions. These updates include increasing the number of below grade parking stalls from 36 to 43 stalls, and ensuring the proposed Victoria Avenue pick up/drop off zone does not conflict with the existing pedestrian cross walk.
2. Met with **Oak Bay Engineering** (*Dave Marshall - Director of Engineering*) to review the application. Mr. Marshall was supportive of both the proposed pick up/drop off along Victoria Avenue, as well as the addition of underground parking with a secondary pick up/drop off. Consideration of a Falkland access was raised by Mr. Marshall and as a result this potential was included as an option in the Parking and Traffic Review. (*This option is not however part of our revised application, as the traffic study noted that it would alter traffic patterns on Falkland Road, and recommends maintaining traffic patterns to and from a collector road (Victoria Avenue).*)
3. The establishment of a **Neighborhood Relations Committee** which includes Neighbors, Parents, Oak Bay Engineering and the Oak Bay Police Department. The Committee's purpose is to work collaboratively towards drafting a good neighbor agreement that includes short and long term strategies for addressing parking and traffic issues, as well as the development of a **Traffic Management Plan**.
4. The enlistment of the **Commissionaires** to assist in traffic enforcement and management during pick up and drop off times.
5. The Schools attendance at a municipality organized "**Safe Travel Planning**" workshop

We look forward to presenting our revised Variance Request and rationale, and will be requesting that the Development Variance Permit be brought forward to a meeting of council for consideration. We will also be updating the Committee on the ongoing efforts by the School to address the concerns of the Neighborhood in regards to parking and traffic issues.

Yours truly,

MERRICK ARCHITECTURE ■ BOROWSKI SAKUMOTO FLIGG LTD.



Shaun C. McIntyre

B.ED., M. Arch.

ARCHITECT AIBC, MRAIC, LEED® AP

Managing Associate – Victoria Studio

Encl. Revised Development Permit Variance Application Drawings
c.c. St. Michaels University School Junior School
sm/bb



ST. MICHAELS UNIVERSITY SCHOOL JUNIOR SCHOOL CAMPUS

Parking and Traffic Circulation Review

Prepared for: **SMUS Junior School**
Prepared by: **Boulevard Transportation, a division of Watt Consulting Group**
Our File: **1712**
Date: **July 2, 2014**

GREAT!

transportation solutions for communities

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1.0 INTRODUCTION

Boulevard Transportation Group was retained by SMUS Junior School to conduct a parking and traffic circulation study for a proposed redevelopment of the St. Michaels University School – Junior School campus. Of particular consideration is the existing drop-off and pick-up characteristics on the adjacent neighbourhood streets. The study reviewed existing parking and traffic conditions in terms of magnitude of the issue, safety, and operations, and also assessed the expected impact of added school trips due to the facility expansion. A travel survey was conducted to establish travel trends to and from the school by mode. The proposed on-site parking options were reviewed in terms of potential for mitigating on-street drop-off and pick-up activity, and were reviewed from a circulation perspective. Based on the analysis, transportation demand management and site mitigations are considered for the site, and conclusions and recommendations are made.

2.0 BACKGROUND

2.1 School Characteristics and Proposed Expansion

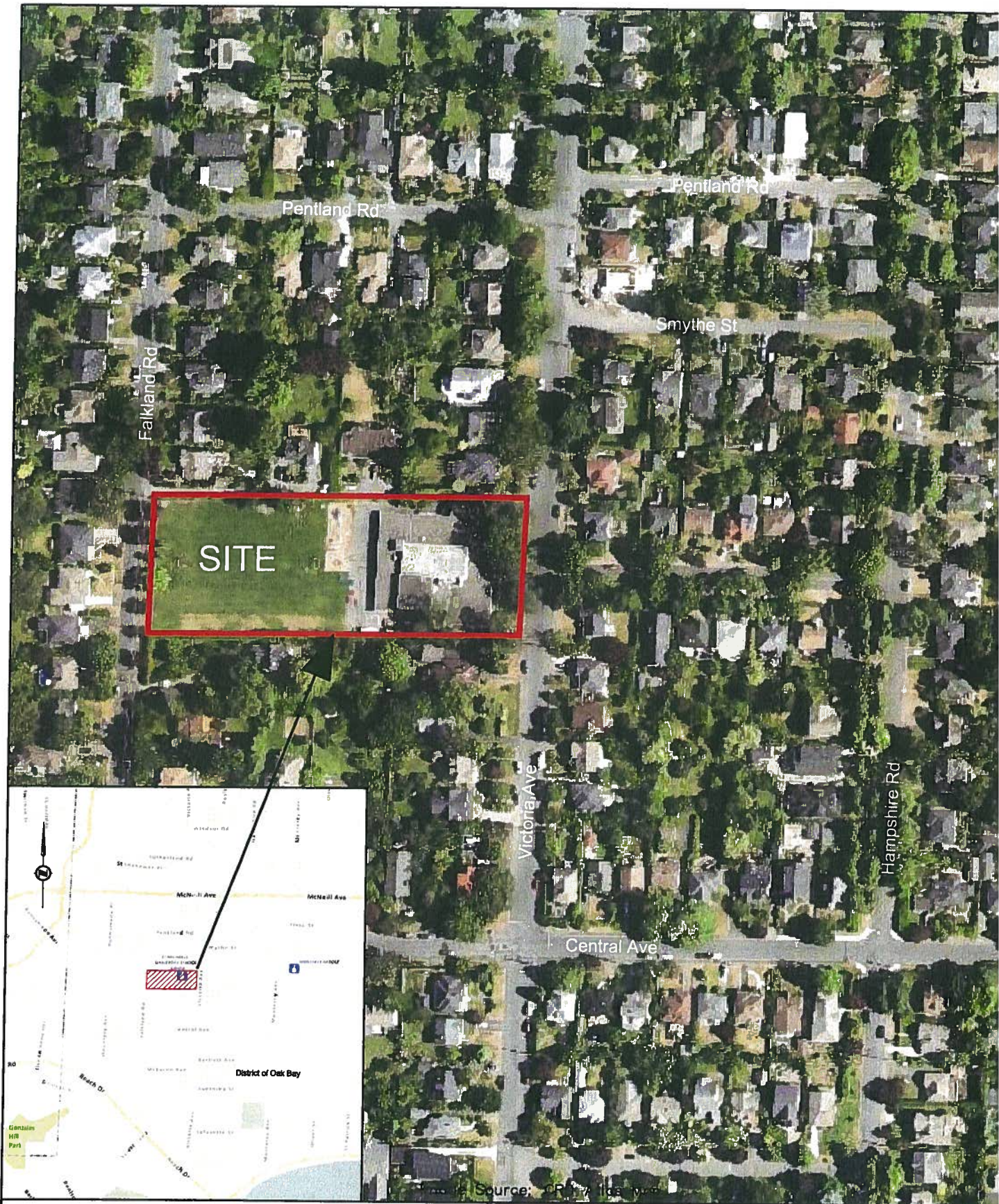
St. Michaels University School – Junior School (SMUS) is a private school (kindergarden to grade 5) that is located at 820 Victoria Ave in Oak Bay. The school has a total enrolment of 185 students. As it is a private school, it attracts students from across the CRD; there is, therefore, a certain percentage of students that necessarily use motorized transportation (e.g. drop-off / pick-up, or school bus).

The proposed re-development will have approximately the same number of students as there are presently, with up to 15 more students. At present, there is on-site parking for staff only, but no on-site area for drop-off or pick-up by parents.

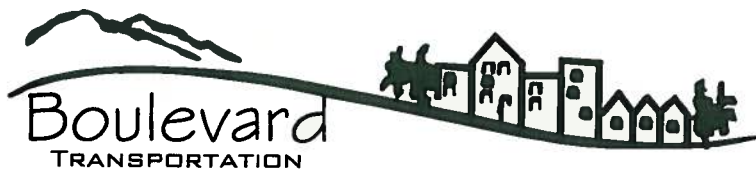
For primary students at SMUS, the start time is 8:15 AM, and for the intermediate students the start time is 8:20 AM. This results in drop-off activity taking place from just before 8:00 AM to approximately 8:30 AM.

Pick-up times are based around the 3:00 PM end of day for primary students, and the 3:15 PM end of day for secondary students. This results in typical pick-up activity from as early as 2:00 PM to 4:00 PM, but with the majority of activity occurring from 2:45 PM to 3:30 PM. The offset start and end times help to spread out drop-off and pick-up behaviour over a longer period, and lessen peak traffic volumes as compared to what they would be if there was only one set start time and end time to the school day.

See **Figure 1** for the school site and study area.



Source: ORCA Images



TITLE: **FIGURE 1**
STUDY AREA
ST MICHAELS UNIVERSITY JUNIOR SCHOOL

DESIGNED: MJ	DRAWN: mjo	SCALE: NTS
DATE: MAY 16 2014	DRAWING NO: 1712_FIG 1	REV.

2.2 Drop-off / Pick-up Locations

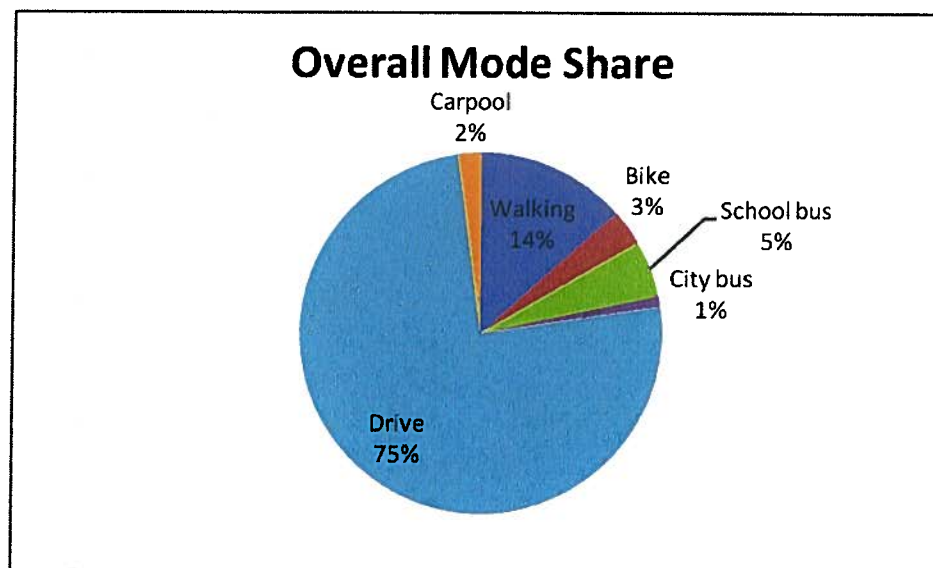
All access to the school is via Victoria Ave, opposite Beaverbrooke St. (Although the school property also abuts Falkland Rd, it is fenced off and access is not possible.) The main areas for drop-off and pick-up are along Victoria Ave and Beaverbrooke St, although spill-over at peak times can occur on Smythe St, Pentland Rd, and Hampshire Rd. There is a “2-Minute Passenger Loading Zone” on the school frontage that can accommodate two cars (or one school bus).

Victoria Ave is on BC Transit Routes 1 and 2.

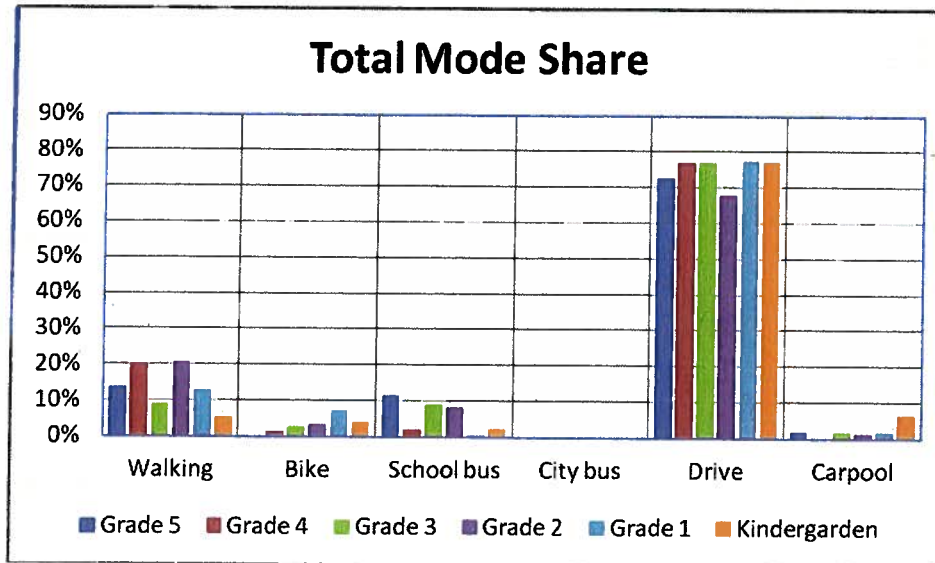
2.3 Travel Modes

A travel survey was conducted to establish travel mode characteristics for students from Kindergarten to Grade 5. This can be used as the basis for establishing the potential traffic and parking impacts of increased students, and also indicate issues and barriers to potentially using alternative travel modes to private vehicle travel. In all 72 surveys were received, providing a good overview of all grades.

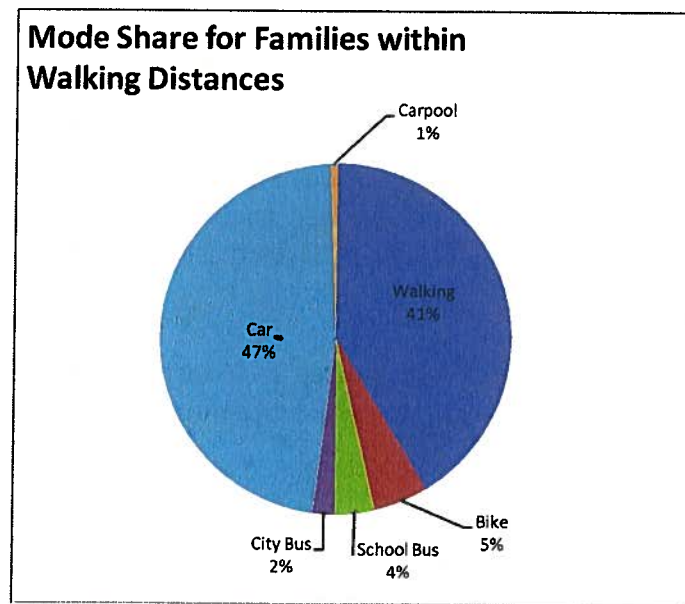
In terms of travel modes to the school, the primary mode is private vehicle drop-off / pick-up, with 75 percent of the mode share. There is some walking, school bus, city bus, cycling, and carpooling.



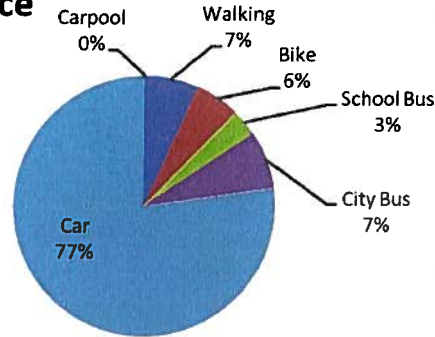
This trend did not vary greatly by the grade of the student.



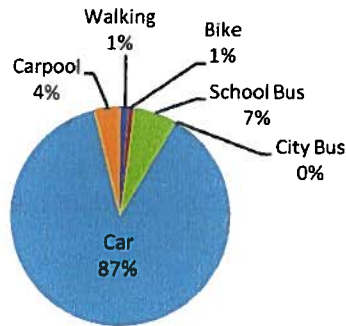
The greatest factor in the selection of mode was the proximity of the students to the school. For those within walking distance, 41 percent walked to school, and less than half (47 percent) arrived by private vehicle (walking distance was assumed to be within a 20 minute walk). For those within a "cycle-able distance" (assumed to be a 5-15 minute bike, more than a 20 minute walk), there was 77 percent of students being dropped off by car, and this number rose to 87 percent for those located beyond cycling distance.



Mode Share for Families Within Cycling Distance



Mode Share for Families beyond Cycling Distance



In terms of measures that parents indicated may encourage modes other than private vehicle, the most frequently cited (by 9 respondents) was development of a carpool system. Other noted considerations (cited by 2 or 3 respondents) included a friend to walk/bike with, bike safety training, improved sidewalk outside the school, a “walking school bus”, less work constraints, and moving closer to the school.

The survey findings indicate that the travel distances involved for many families of students at the school inherently results in a large private automobile mode split.

3.0 SITE CONDITIONS

3.1 General Area Conditions and Characteristics

The school is located in Oak Bay in a residential area on Victoria Ave. Aside from the school, the adjacent neighbourhood is comprised of single family homes. Parking is generally permitted on both sides of the road on adjacent streets (e.g. Victoria Ave, Beaverbrooke St, Smythe St, Hampshire Rd) except for no parking along the school frontage on Victoria Ave. There is a marked and signed crosswalk on Victoria Ave at the north side of Beaverbrooke St. During drop-off and pick-up time periods, a school official serves as a crossing guard at the crosswalk. There is also a commissioner that patrols the adjacent streets, in particular for parking violations (e.g. parking within a driveway).

There is a sidewalk along the west side of Victoria Ave (between Central Rd and McNeill Rd), and on the north side of Beaverbrooke St.

A school speed zone is in effect along Victoria Ave in the vicinity of the school, with a 30 km/h posted speed between 8am and 5pm.

With the exception of the 2 minute loading zone in front of the school, there are no parking restrictions in the study area.

The school places orange traffic cones on the street at the intersection of Victoria Ave and Beaverbrooke St to help dissuade drop-off / pick-up vehicles from stopping in the existing no-stopping zones right at the intersection.

Victoria Ave is a wider roadway that allows for two vehicles to pass each other even in the presence of on-street parking. The adjacent streets, however, are narrower in width and generally require one vehicle to pull over to the side if an oncoming vehicle is present, should there be cars parked on both sides of the road. This is true of Beaverbrooke St, Smythe St, and Pentland Rd.

Victoria Ave is not so wide that u-turns are readily accommodated, however they can be undertaken within intersection areas (as there is more pavement area with which to complete a u-turn). This was observed on a few occasions at Victoria Ave and Beaverbrooke St (but in lower volume times just before or after main drop-off / pick-up periods when there was limited school-related activity taking place).

The access to on-site parking for school staff is at the north frontage of the site, but minimal activity was observed to occur (with no operations or safety issues noted). At the south frontage

on Victoria Ave is a driveway that is not for use by vehicles, and is where the majority of cyclists to/from the school accessed the school.

3.2 AM Drop-Off Conditions

Site conditions were observed on Wednesday, June 4, 2014. AM conditions were observed between 7:45 AM and 9:00 AM. The data collection consisted of a traffic count at the intersection of Victoria Ave & Beaverbrooke St, on-street parking observations on adjacent neighbourhood streets (including Victoria Ave, Beaverbrooke St, Hampshire Rd, Smythe Rd and Pentland Rd), and observations of school-related vehicle circulation and driver behaviour.

Circulation and safety-related observations were as follows:

- Several u-turns (many requiring 3-point turns) at the intersection of Victoria Ave & Beaverbrooke St (observed prior to 8:00 AM). A u-turn was also observed at the south bike access driveway (after the main drop-off period, near 8:40 AM)
- Vehicles were observed to slow as they travelled in front of the school
- Some arrival by walking was observed, and one school bus dropped off students in front of the school
- The duration of parking for drop-offs was, in most cases, 10 minutes long or less
- Peak drop-off time was observed at approximately 8:10 to 8:15. Some longer-duration drop-off parking vehicles were observed on Victoria Ave past Pentland Rd
- Several u-turns at driveways on Beaverbrooke St were observed, in one case conflicting with a resident trying to leave their driveway
- Some drop-off was occurring at the south "driveway" (that is the access point used by most cyclists); several cyclists were observed to have their path blocked by such drop-offs that took place in the driveway.
- Some pedestrians to the school observed to cross mid-block (not at the marked / signed crosswalk), particularly from south of the school (south of Beaverbrooke St)

3.3 PM Pick-Up Conditions

PM pick-up conditions were observed on Wednesday, June 4, 2014, from 2:25PM to 4:15PM. It should be noted that there was a special event on at the school on this day, and as a result a large number of pick-up vehicles were already parked by the time the afternoon observations commenced as parents were already at the school. Circulation and safety-related observations were as follows:

- On-street parking was full on Beaverbrooke St and mostly full on Victoria Ave up to Pentland Rd.
- Two cars were parked (rather than stopped) within the two-minute loading zone at 2:30 PM. In general the loading zone was used as short-term during the pick-up period but some vehicles were parked in this zone for 10 or more minutes.
- When the school bus arrived to pick up students, the loading zone area was partially blocked by a vehicle parked in the loading zone (and had to wait several minutes before being able to pull in fully).
- No school-related parking was observed on or south of Central Ave, but was observed on Victoria Rd from Central Ave to north of Pentland Rd, and on Beaverbrooke St, Smythe St, Pentland Rd, and Hampshire Rd
- U-turns by some school vehicles were observed on all of the side street roads (Beaverbrooke St, Smythe St, and Pentland Rd), although only when no other vehicles were present on these low-volume roadways
- Some pick-up vehicles were observed to “circulate”, and go back and forth in hopes of a spot opening up closer to the school (but this was limited to 2 or 3 vehicles only where it was clearly a “circulating vehicle”). These circulating vehicles were observed to make u-turns on quiet side streets (not on Victoria Ave).
- Despite the lack of a sidewalk along the west side of Victoria Ave, some parents and students were observed to walk along this side of the road if more convenient for where they are parked. In other cases they walked on the roadway itself, on the west side of Victoria Ave
- At peak demand times, “undersized” spots (that were previously not used due to their short length) were taken. This resulted in parked cars encroaching very near to some driveways.
- In one case, a fast pick-up (less than 30 seconds) took place within a private driveway area along Victoria Ave
- Some pick-up parking occurred within the south (bicycle) access, and this blocked some access for cyclists
- No pick-up related traffic congestion issue was observed, in terms of a crush of vehicles arriving and causing congestion or safety issues. (However, parking near the school was effectively at capacity, and there may have been more of an issue had there not been the special event taking place.)

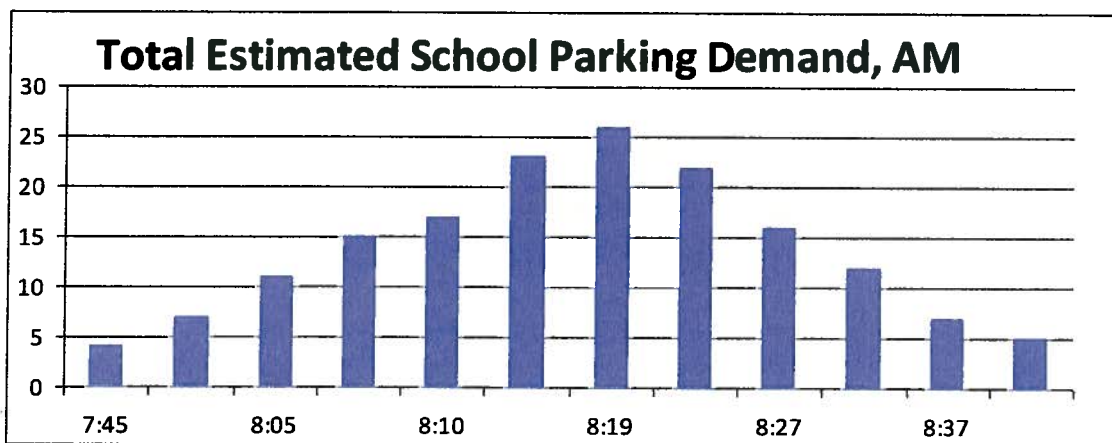
Overall, few safety concerns were observed in the pick-up time frame, particularly related to vehicle / pedestrian or vehicle / vehicle conflicts. The biggest issues were some behaviour that could inconvenience adjacent residents, as related to the demand for on-street parking and for pick-up behaviour that at times impacted some private driveways (e.g. u-turns or parking too close, or even for short periods within the driveway).

3.4 Parking Demand for Drop-off / Pick-up Periods

The existing school-related parking demand was estimated based on in-field counts, that collected on-street parking near the school before, during, and after typical drop-off and pick-up time frames. By comparing the demand for pre-and-post school times with the school activity periods, an estimate of school-based parking on adjacent streets can be developed. Note that parking demand and vehicle trips are not necessarily equivalent, since one parking space may be used for multiple drop-offs or pick-ups.

3.4.1 AM Drop-Off Parking Demand

In the AM, peak drop-off demand was found to be 26 vehicles, at 8:19 AM. The demand was at least 15 vehicles from 8:08 to 8:27. By 8:40 there was only demand for 5 school-based vehicles, and by 8:50 there was effectively no school-based parking demand on-street.



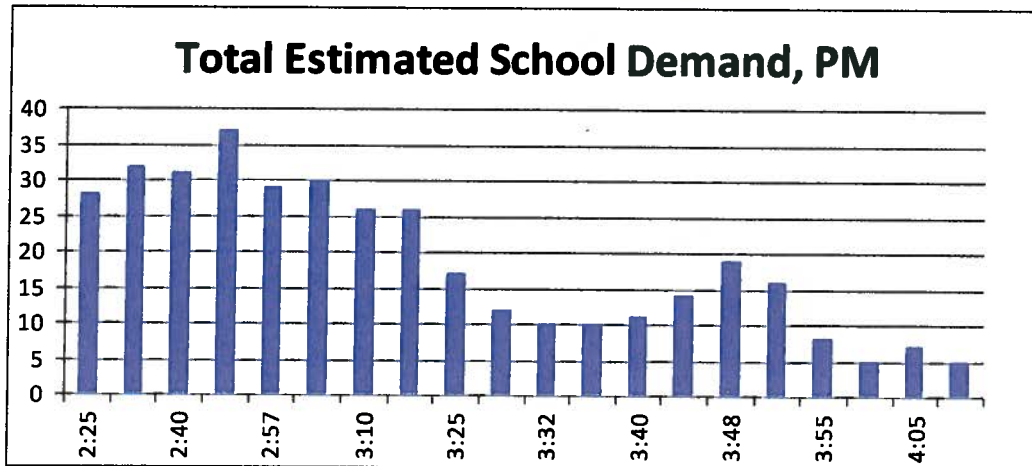
The AM parking demand was concentrated on Victoria Ave between Smythe Rd and Central Rd, and on Beaverbrooke St, with these areas at times being, for brief periods, at capacity.

3.4.2 PM Pick-Up Demand

In the PM, on the day of observations, many parents were at the school all afternoon as part of a function at the school. While this may have lessened the operational impact (of many vehicles arriving within quick succession), it still provided a good representation of peak parking demand.

The total estimated peak parking demand was 37 school-based vehicles, at 2:50 PM. This was a relatively short-peak demand; from 2:30 to 2:40 PM the demand was 32 school-based vehicles, and from 3:00 PM to 3:20 PM the demand was from 30 to 26 school-based vehicles.

After 3:20 PM, the demand fell to 10 vehicles, but did increase to approximately 19 vehicles at 3:50 PM, before dropping to effectively no school-based demand by 4:00 PM.



Of this demand, the majority was on Victoria Ave (between Smythe Rd and Central Ave), and on Beaverbrooke St, although in peak demand periods some parents were parking on other roads such as Hampshire Rd or Victoria Ave north of Smythe Rd.

3.5 Traffic Volumes during Drop-off / Pick-up Periods

Traffic volumes were collected before, during, and after typical drop-off and pick-up periods to establish general and school-period traffic conditions. Turning movements by vehicle type (including cyclists) were collected at Victoria Ave & Beaverbrooke St, as well as at the cyclist access and at the school staff parking lot access. Pedestrian crossings were also counted. The AM peak hour volumes are summarized in Figure 2, and the PM peak hour volumes are summarized in Figure 3. A full breakdown of counts in 15 minute increments can be found in the Appendix.

In the AM, for the peak 15 minute periods of 8:00 to 8:15 and 8:15 to 8:30 (which coincide with drop-off traffic), the total intersection volume counts at Victoria Ave & Beaverbrooke St is approximately double that of the before and after 15 minute windows. (There is slightly less than double the 7:45 to 8:00 AM volume, and slightly more than double the 8:30 to 8:45 AM volume.) While there is effectively a doubling of traffic during peak school drop-off times, no operational issues were observed in terms of delays or queues. Of note is that there are more pedestrians crossing Victoria Ave than there are vehicles on Victoria Ave in the peak hour (both AM and PM). The existing crossing guard operations are therefore important to ensure this pedestrian volume is appropriately accommodated.

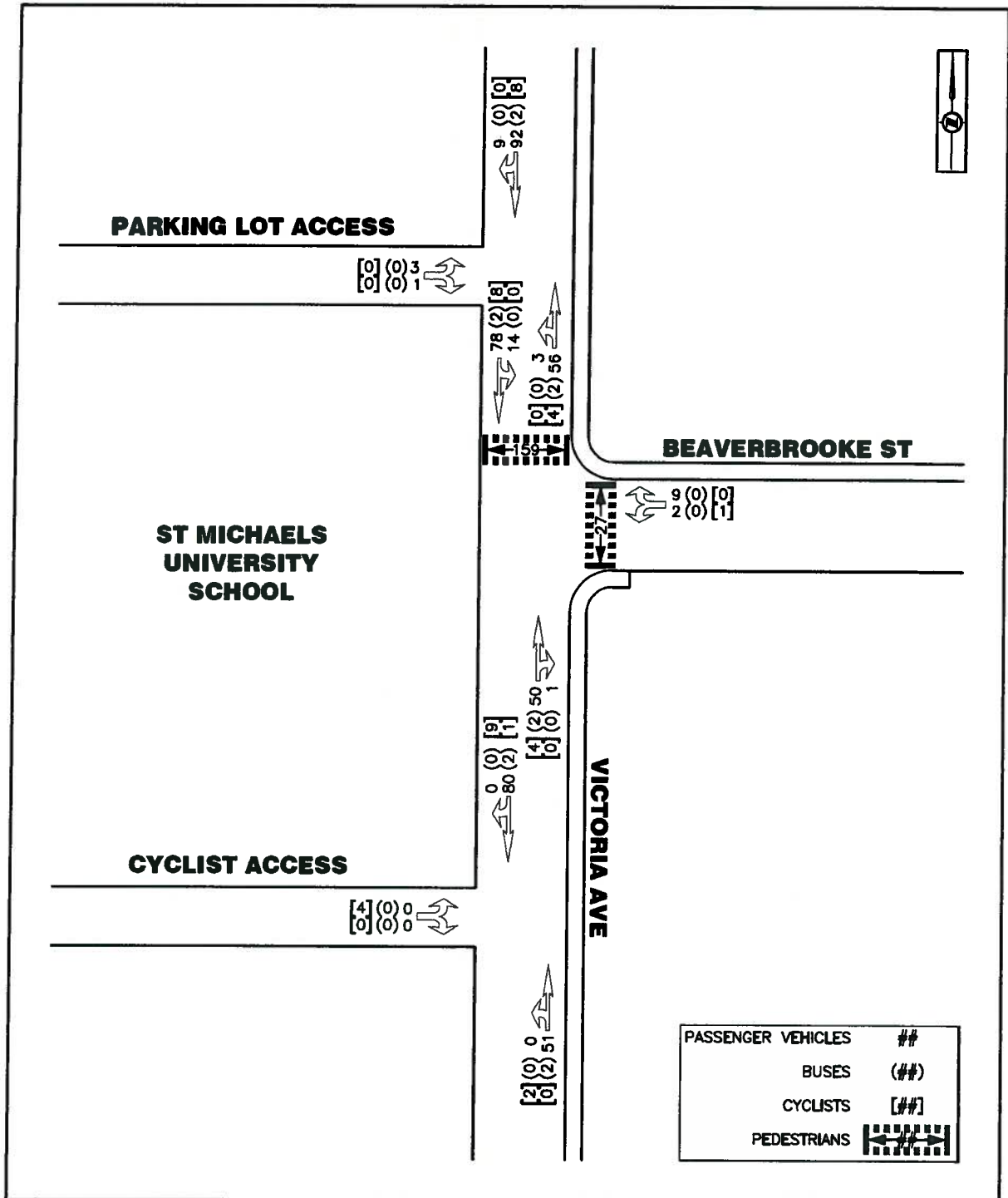


FIGURE 2: AM PEAK HOUR VOLUMES

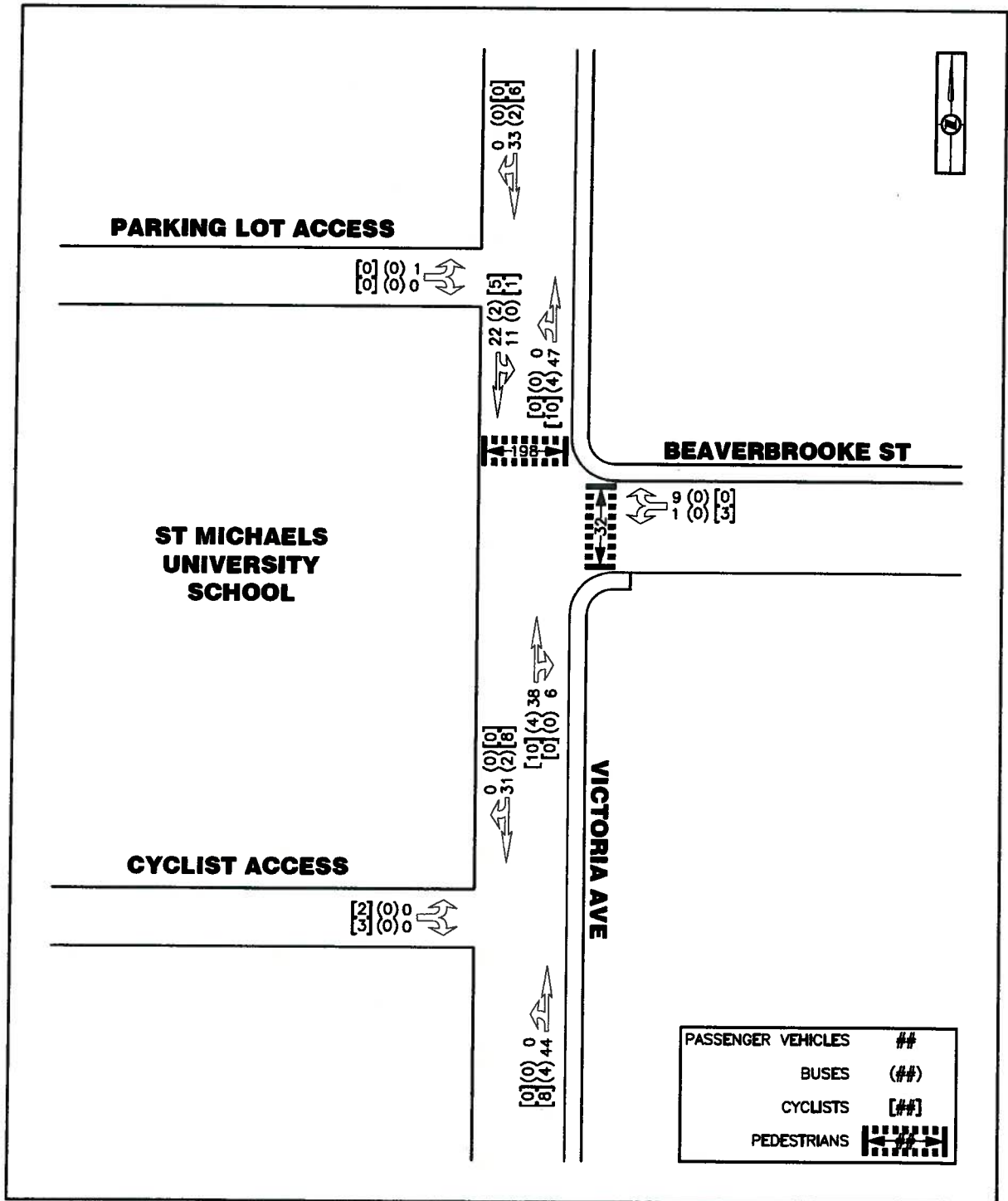


FIGURE 3: PM SCHOOL PEAK HOUR VOLUMES

In the PM, the peak 15 minute periods (during pick-up times) had lower volumes than the AM peak 15 minute periods, and were actually comparable in magnitude to the background AM volumes. This may, however, have been partially a function of the event that occurred on the day of the data collection, where the influx of vehicles arrived over a longer period and at an earlier time. Also, school-based parkers that were already parked prior to 2:30 PM may not have needed to pass through the intersection at Victoria Ave & Beaverbrooke St (by virtue of their parked orientation or street that they were on). Nonetheless, the results indicate that operational concerns in terms of delays or queues were not an issue, and that the volumes are consistent with the collector road nature of Victoria Ave and local road nature of the other area streets, even during school periods.

4.0 POST DEVELOPMENT CONDITIONS

4.1 Traffic Projections

In estimating the potential added vehicular trips (for up to 15 more students) for the proposed school redevelopment, consideration of the existing school trip characteristics is the most appropriate in establishing an appropriate trip rate. The existing peak hour mode split was therefore considered in establishing added site trips.

The travel survey found that 75 percent of students are driven to school, with the rest using other modes (mostly walking, at 14 percent, then school bus at 5 percent and other modes as less than 5 percent). Therefore, there is an existing peak hour generation rate for motor vehicles of 0.75 trips/student. In the case of 15 new students, there would be 12 new pick-up / drop-offs, in total (with 12 inbound and 12 outbound trips at the peak times). These vehicles would likely be disbursed in their arrival / departure patterns (so that there would not be 12 more vehicles at one time, and instead the actual increase in parking demand for drop-off or pick-up would be somewhat less). Based on the PM peak estimated demand (at any one time) of 37 vehicles for 185 students, there is a peak parking demand rate of 0.2 stalls per student. Therefore, 15 new students would add a demand 3 more peak hour parking stalls.

4.2 Parking and Circulation Options

The new site plan has a proposed underground parking that will provide additional on-site parking for the school. There is an assumed 15 stalls that would be required for staff parking (to account for the existing 12-15 stalls behind the school). There are two general concepts for the parkade: an in/out access on Victoria Ave only, and an in (via Victoria Ave) and out (via Falkland Rd) option.

In Option 1 (in/out via Victoria Ave only), 36 stalls could be provided, of which four would be facilitated by pull over in a short-term loading area. (See Figure 4.) This would result in 21 stalls

that could be used by parents, rather than using on-street parking. The AM drop-off traffic would be nearly completely accommodated by this option (80 percent of existing vehicles, or 72 percent of vehicles if 15 new students were added to the school). In the PM, it would accommodate slightly more than 50 percent of the vehicles at the peak time (even with potential new students), and 64 percent of vehicles for most of the peak demand time. The rest would either have to park on-street or wait for an open spot in the underground parking lot, or use the surface level drop-off area. This option, by virtue of having all access/egress via Victoria Rd, would effectively leave the adjacent road area circulation unchanged. It would, however, eliminate any undesirably on-street u-turn behaviour, since this type of manoeuvre would be undertaken in the parking lot.

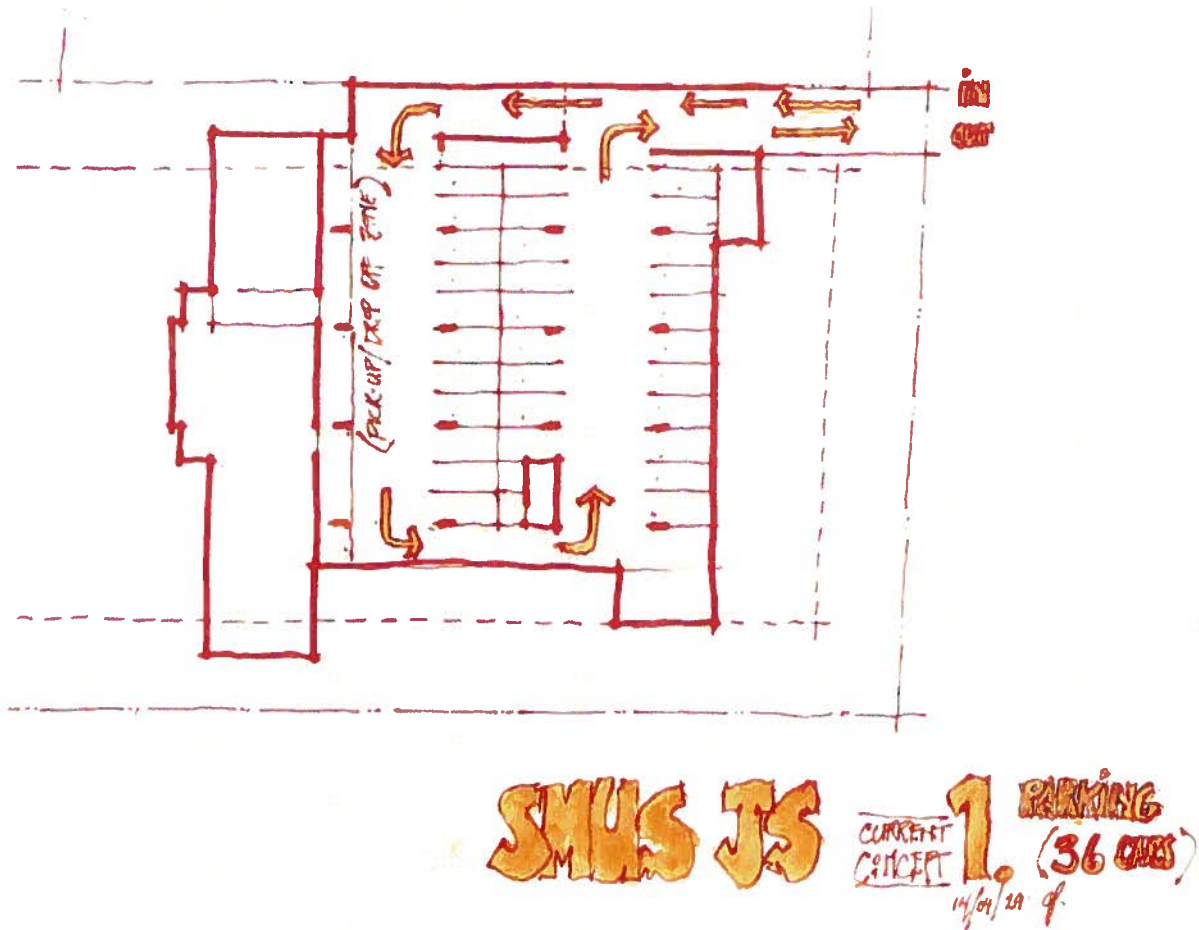


FIGURE 4: PARKING LOT OPTION 1

In Option 2 (in via Victoria Ave, out via Falkland Rd), 44 stalls could be provided (but no pull-over area). (See Figure 5.) This would result in 29 additional spaces that could be used by parents. This would accommodate over 70 percent of demand in the short peak PM time (including any new students), and over 85 percent of demand in most of the PM pick-up period. The AM drop-off period could be entirely handled by this option. This option would, however, result in a change to traffic on Falkland Rd, which is a local road where there is currently no school related traffic. While traffic operations would not likely be an issue in terms of the ability of Falkland Rd to handle the added traffic, it would change the nature of the road during drop-off and pick-up times from what currently exists.

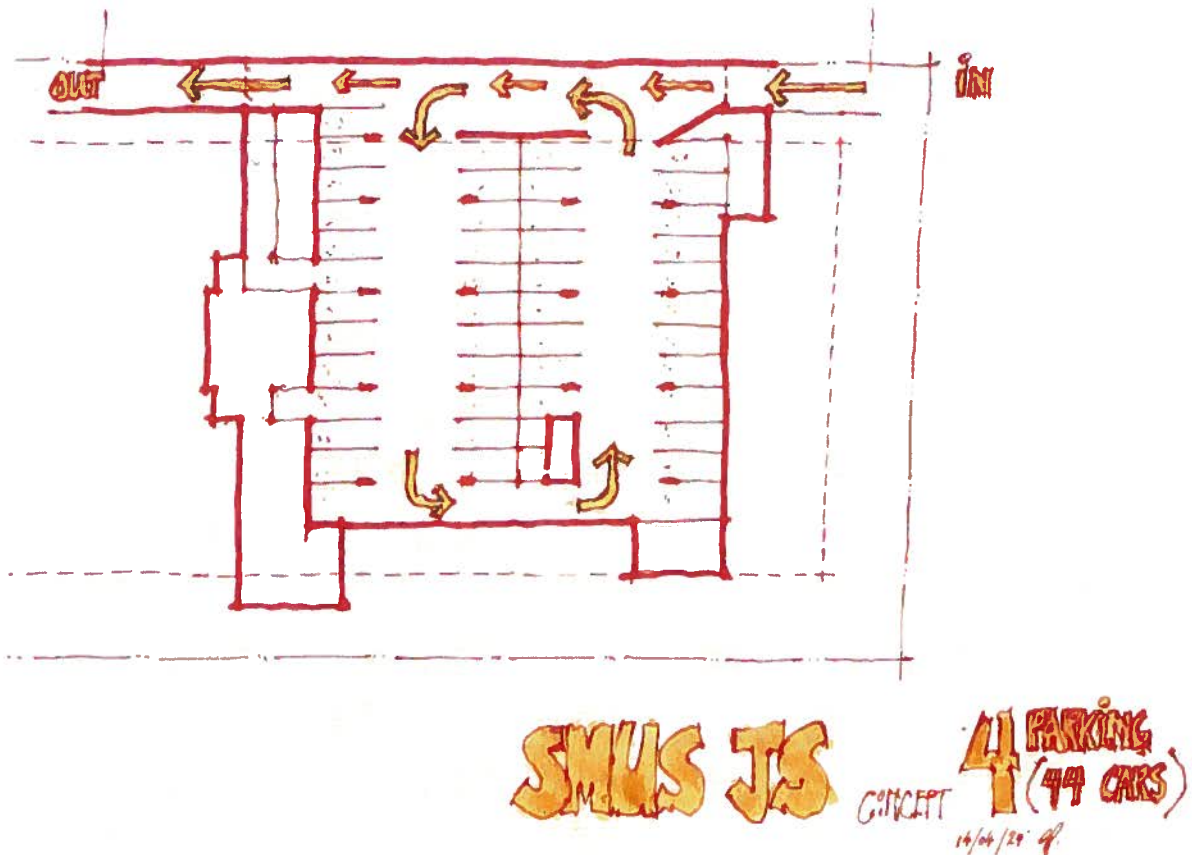


FIGURE 5: PARKING LOT OPTION 2

Both options would benefit the adjacent streets by reducing the on-street parking demand. The trade-off is that Option 1 does not provide as much benefit (generally 70 percent accommodation) but maintains traffic to/from a collector road (Victoria Ave), whereas Option 2

provides more benefit but would alter traffic patterns on Falkland Rd. In both cases, education and monitoring would be required to encourage use of the underground facility.

4.3 Surface Level Loading Zone

An off-street surface level loading zone is proposed as part of the site design, in a one-way southbound loop configuration. This would allow for additional short-term loading in front of the main school doors (with pull-outs for up to 4 vehicles), and would allow for full directional exit movements onto Victoria Ave. This has the benefit of minimizing the need for u-turn movements, as the loop itself effectively provides a u-turn option for drivers. See Figure 6 for the proposed concept.

The greatest concern with this would be that all parents may desire to use this most convenient option that is nearest to the doors, which could result in on-street queues from vehicles that would rather use the surface-level loop than an underground parking area. Monitoring and flagging / directing of parents to use the underground lot if the loop is at capacity is therefore a consideration for peak times.

The second consideration is to ensure that a marked and signed crosswalk across Victoria Ave at Beaverbrooke St remains, to accommodate those that walk or those that may still end up parking on-street. Adequate room between the school bus waiting area and the crosswalk is essential (minimum 5m).

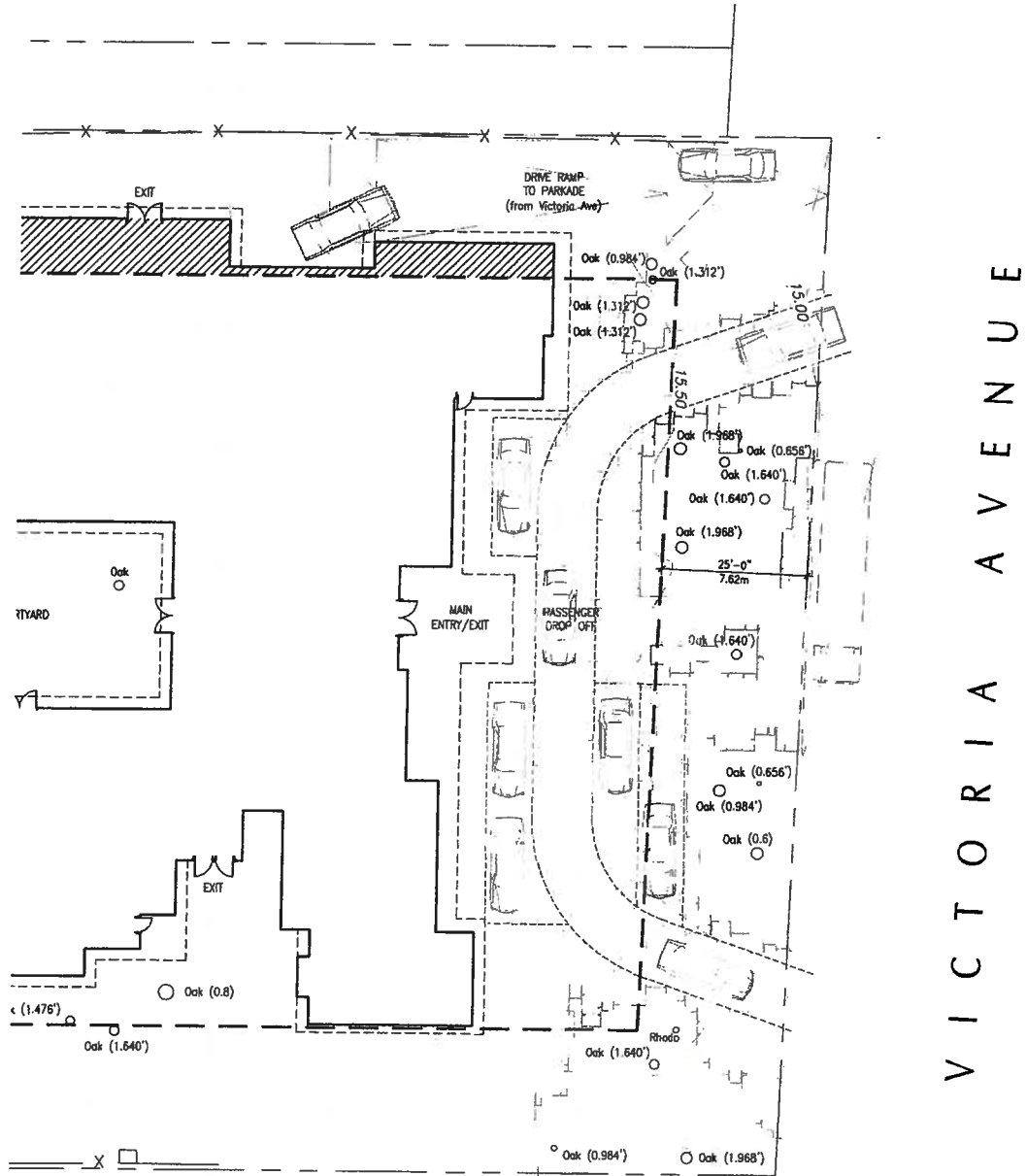


FIGURE 6: PROPOSED DROP-OFF LOOP

5.0 CYCLIST AND PEDESTRIAN ACCOMMODATION

As noted in Section 4.3, the crosswalk across Victoria Ave is a critical design consideration. The access to the parking lot and the drop-off loop must not interfere with the crosswalk design, nor should the school bus waiting area be directly at the crosswalk; at least 5m should be clear between a stopped / waiting school bus and the crosswalk. There was also some pedestrian activity noted along the west side of Victoria Ave, either on-street or on the boulevard. In the longer term, the District of Oak Bay may wish to consider installing sidewalk along the west side of Victoria Ave as part of any roadway redevelopment or upgrade project.

The existing cyclist access was observed to be well-used at the school. The site redesign will allow for underground bike parking, and access via the underground parking driveway.

6.0 ADDITIONAL MITIGATION / TDM MEASURES

The proposed parking options will not fully accommodate all the required peak demand, but will alleviate the existing demand and will improve the situation for nearby residents. Additional mitigation measures that limit the number of vehicle trips could, however, still be considered.

Transportation Demand Management (TDM) can be beneficial in promoting behaviours and sustainable modes that can lessen the traffic impact adjacent to the school site, thereby minimizing conflicts and safety concerns while also potentially minimizing the vehicle footprint overall. In the context of the SMUS Junior School, it can mean the promotion of alternate modes. Although there is some limit

The following measures can be effective:

- Enact a TDM initiative
 - Walking / cycling (while the school has limitations on the maximum shift in usage to walking and cycling, these modes should still be encouraged and promoted by the school as possible).
 - Encourage / promote carpooling, as well as transit
- Enact / enhance a Safe Routes to School / walking school bus program
- Education program for parents, on where / how best to handle pickups, drop-offs, or carpooling / bus options. The program should also identify reasons why the alternatives should be used, including safety, impacts on neighbours, and benefits of sustainable modes. This may take the form of a newsletter, or even an “education event” whereby parents picking up or dropping off are approached with info about preferred and recommended options.

No other off-site (or on-site) mitigations were identified as being a strong consideration (e.g. no additional signage or design options need to be considered beyond those as part of the school redevelopment).

7.0 CONCLUSIONS

The following conclusions are made regarding the parking and circulation assessment for the St. Michaels University School – Junior School campus.

In terms of travel modes to/from the site, private vehicle is the main mode with 75 percent of all trips (similar for all grades). As many of the students reside outside of a walkable or bikeable distance, it may be difficult to alter this number unless increased carpooling or bus travel is promoted (school bus and/or transit).

Parking and traffic counts were conducted during drop-off and pick-up time periods. The peak school-related parking demand was estimated to be 37 vehicles at any one time (for approximately 5 minutes in the PM pick-up period), but generally 30 vehicles or less in the PM and 26 vehicles or less in the AM. Traffic volumes were found to be highest during the 15-minute peak AM drop-off period (approximately double the off-peak AM period), although this volume likely also includes non-school related peak hour traffic. The PM peak traffic was lower than the AM traffic, and was generally consistent in magnitude with off-peak AM 15-minute time frames. There were no significant operational issues related to traffic volumes. In terms of undesirable or unsafe behaviour, there were some instances observed, such as u-turns mid-block or within an intersection (although only during quieter periods), vehicles dropping off or picking up within private driveways or the cyclist access, and some mid-block (“j-walking”) crossings on Victoria Ave south of the school. There were a few (one or two) vehicles observed to circulate in hopes of getting in a closer parking stall. In general, however, driver behaviour was not observed to be a safety issue (e.g. slow speeds, expectation to slow or stop for parents and students, etc).

The potential for 15 extra students with the redevelopment was assessed in terms of parking and traffic impact. A peak parking demand increase of 3 stalls is expected (based on the existing school parking demand characteristics on a per-student basis). Overall, 15 students would result in 12 more vehicle trips to and from the school.

Two parking lot options were considered as part of this review: Option 1, with access via Victoria Ave only (with 36 stalls), and Option 2, with access in via Victoria Ave and access out via Falkland Rd (with 44 stalls). Both options are effective at reducing the on-street demand for parking. Option 1 would in general accommodate at least 70 percent of the school drop-off / pick-up demand (except for the 5-minute afternoon peak, where it would accommodate just over

50 percent of the demand). Option 2 would accommodate more than 70 percent of the peak 5 minute demand and over 85 percent of general pick-up demand (and all of the AM demand). Option 1 has the benefit of maintaining traffic patterns, and by promoting the use of a collector road (Victoria Ave) as the main access / egress. In both cases, education and monitoring would be required to ensure proper uptake of the parkade.

Accommodating pedestrians and cyclists will be important for the redesign, in particular ensuring proper spacing and clearance of parked vehicles from the marked / signed crosswalk across Victoria Ave.

Additional measures that could be considered are TDM measures that can reduce private vehicle trips. Potential measures include promoting walking / cycling and enacting / enhancing a Safe Routes to School program, encouraging / promoting carpooling and bus ridership options, and enacting education programs for parents on desired behaviour.

8.0 RECOMMENDATIONS

The following is recommended as part of the SMUS Junior School redevelopment:

- Incorporate the Option 1 parking lot into the redevelopment
- Ensure the design does not impact the crosswalk across Victoria Ave (and that there is adequate space between bus storage areas and the crosswalk, at least 5m)
- Enact the following measures:
 - Promote walking / cycling and enact / enhance a Safe Routes to School program
 - Encourage / promote carpooling and bus ridership options
 - Enact an education program for parents on desired parking / circulation behaviour
- In the longer term, the District of Oak Bay should consider adding sidewalks to the west side of Victoria Ave as part of any road upgrade projects.

APPENDIX A: TRAFFIC COUNTS

Intersection Turning Movement Count Summary

N/S Street: Victoria Ave
 E/W Street: Beaverbrooke St / School Access
 LOCATION: Oak Bay
 DATE: 04-Jun-14
 WEATHER: Overcast
 JOB #: 1712

Observer: Michael
 Notes: School zone 30km/h
Vehicles turning into school access at driveway on north end of school.
Bikes turning into school access at driveway on south end of school.
 Speed Limit Major Street: 30 km/h
 Speed Limit Minor Street: 30 km/h

TOTAL HOURS = 1.5

Vehicles

TIME	Northbound			Southbound			Eastbound			Westbound			Hourly Volume	Pedestrians				
	From	To		LEFT	THRU	RIGHT	LEFT	THRU	RIGHT	LEFT	THRU	RIGHT		Total Volume	N	S	E	W
7:45	8:00	1	18	0	2	9	4	1	0	1	0	0	1	37	10		5	
8:00	8:15	1	11	0	6	30	1	2	0	0	1	0	2	54	75		8	
8:15	8:30	0	12	1	3	34	2	0	0	0	1	0	3	56	64		8	
8:30	8:45	1	8	0	3	7	2	0	0	0	0	0	3	24	7		2	
8:45	9:00	0	14	0	3	8	0	0	0	0	0	0	2	27	3		4	
9:00	9:15													0				
Total			63	1	17	88	9	3	0	1	2	0	11		159	0	27	0
Peak Hour			49	1	14	80	9	3	0	1	2	0	9		156	0	23	0
PHF			0.75	0.88	0.25	0.59	0.56	0.38	0.00	0.25	0.50	0.00	0.75					

Heavy Vehicles

TIME	Northbound			Southbound			Eastbound			Westbound		
	From	To		LEFT	THRU	RIGHT	LEFT	THRU	RIGHT	LEFT	THRU	RIGHT
7:45	8:00	0	1	0	0	2	0	0	0	0	0	0
8:00	8:15	0	1	0	0	1	0	0	0	0	0	0
8:15	8:30	0	1	0	0	0	0	0	0	0	0	0
8:30	8:45	0	0	0	0	1	0	0	0	0	0	0
8:45	9:00	0	3	0	0	0	0	0	0	0	0	0
9:00	9:15											
Total			6	0	4	4	0	0	0	0	0	0
Peak Hour			3	0	4	0	0	0	0	0	0	0
% Heavy Vehicles			0%	6%	5%	0%	0%	0%	0%	0%	0%	0%

Bicycles

TIME	Northbound			Southbound			Eastbound			Westbound		
	From	To		LEFT	THRU	RIGHT	LEFT	THRU	RIGHT	LEFT	THRU	RIGHT
7:45	8:00	0	0	0	0	2	0	0	0	0	0	0
8:00	8:15	0	0	0	0	7	1	0	0	0	0	0
8:15	8:30	2	0	0	0	0	1	0	0	0	0	0
8:30	8:45	0	0	0	0	0	2	0	0	1	0	0
8:45	9:00	0	0	0	0	0	0	0	0	0	0	0
9:00	9:15											
Total			2	0	1	9	4	0	0	1	0	0
Peak Hour			2	0	0	9	4	0	0	1	0	0

APPENDIX B: TRAVEL SURVEY



School Travel Planning Survey

St. Michaels University Junior School

St. Michaels University Junior School has been undergoing an expansion phase as part of the Junior School Redevelopment Project. On-site parking and pick up/drop off space on-site are proposed as part of the new school. This survey is being distributed to understand travel habits and issues, which will assist in the review of drop-off/pick-up operations and proposed mitigation strategies.

We appreciate your feedback. Please return the completed survey to the Junior School Director's Office by June 11, 2014.

1. How many children from your household currently attend St. Michaels University Junior School? _____

1. a) What grades are they in? _____

2. How close do you live to the school? (Choose one)

- Within walking and cycling distance (within a 20 minute walk, or 5 minute drive)
- Beyond walking distance, within cycling distance (approximately 5-15 minute bike, more than a 20 minute walk)
- Beyond walking and cycling distance

3. In a typical week, how many days do your children use each travel mode to and from school. Please differentiate between seasons (Fall, Winter, Spring) during the school year.

		Walk	Bike	School Bus	City Bus	Driven	Carpool
Fall	To School						
	From School						
Winter	To School						
	From School						
Spring	To School						
	From School						

Please Turn Over.....



4. What barriers discourage your children to take each mode outlined below to and from school? (If any)

Travel Mode	Barrier
Walk	
Bike	
School Bus	
City Bus	
Carpool	

5. What would enable or encourage your child to walk, cycle, bus or carpool to and from school more often?

6. Please feel free to add any other thoughts or ideas.

Thank you for taking the time to do this survey!



MERRICK ARCHITECTURE
BOROWSKI SAKUMOTO FLUGG ARCHITECTS

SMUS - Junior School

Development, Valuation Permit Application
820 Victoria Avenue
Victoria, BC V8S 4Y3
For
St. Michaels University School
REVISION 1 - 01 July 2014



CLIENT
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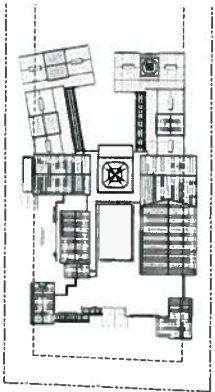
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VICTORIA, BC V8S 4Y3
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FAX: 250 388 2811
CONTACT: GABRIEL BOSTELL
gbostell@merrickarch.com

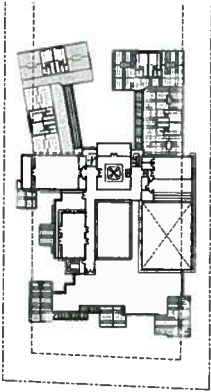
LANDSCAPE
SMALL AND BOSTELL LANDSCAPE ARCHITECTS
3000 16TH AVENUE
BOONVILLE, BC V9E 1C6
PHONE: 250 361 7733
FAX: 250 361 7001
CONTACT: GABRIEL BOSTELL
gbostell@smallandbostell.com

ABEA ANALYSIS

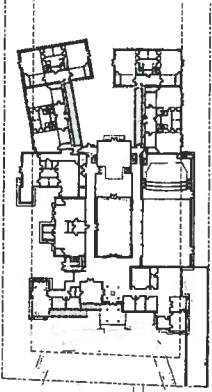
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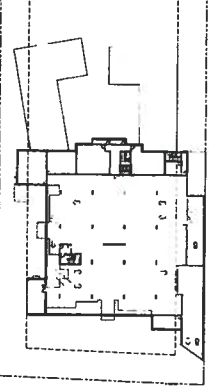
GENERAL SITE PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



FOURTH FLOOR PLAN



ZONING PROJECT DATA

City Address: 820 Victoria Avenue, Victoria, BC
 Legal Description: Lot 13, Section 22, Victoria District, Plan 714
 Site Area: 16,521 sq. ft. (1.376 ac)
 Current Zoning: R-1
 Existing Use: Special residential
 Proposed Use: Special residential
 Floor Area: 24,900 sq. ft.
 Total Floor Area: 24,900 sq. ft.
 Year Built: 1982
 Year Renovated: 2005
 Site Area: 16,521 sq. ft.
 Floor Space Ratio (FSR): 1.506
 Proposed Site Coverage: 15.2%
 Max. Allowable Site Coverage: 20%
 Average Grade: 15.54%
 Building Height: 34.28 ft.
 Height over adjacent higher level: 34.28 ft.
 Number of Storeys: 1
 Parking: 18 stalls
 Notes: * Floor indicator was established as a result of a site-specific study of the site and nearby residential areas within the 100-foot R-1 Z-1 Zoning District.

REQUESTED VARIANCES

Building Attribute	Proposed	Maximum Allowed
Floor Area	24,900 sq. ft.	20,000 sq. ft.
Floor Space Ratio	1.506	1.0
Building Height	34.28 ft.	25 ft.
Height over adjacent higher level	34.28 ft.	25 ft.
Number of Storeys	1	1
Parking	18 stalls	0 stalls

BUILDING CODE SUMMARY

BC Building Code 2012
 Site Area: 16,521 sq. ft.
 Building Area: 24,900 sq. ft.
 Number of Storeys: 1
 Building Classification: Group A-2 Assembly
 Separation of Occupancies: A-2, R-1
 Construction Type: A-2, R-1
 Notes: 1. Not for use in existing buildings with...
 2. In 2012 regulations, supporting load-bearing walls...

DRAWING LIST

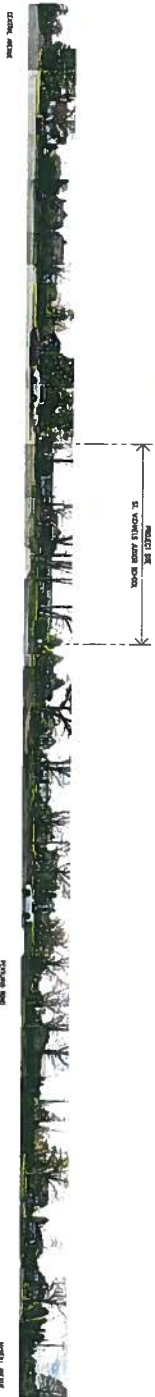
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- A002 PROJECT DATA & DRAWING LIST
- A003 CONCEPT SITE PLAN & ELEVATIONS
- A004 SITE PLAN
- A005 PROPOSED BUILDING FOOTPRINT
- A006 BELOW GRADE FLOOR PLAN
- A007 GROUND FLOOR PLAN
- A008 SECOND FLOOR PLAN
- A009 THIRD FLOOR PLAN
- A010 WEST & NORTH ELEVATIONS
- A011 EAST & SOUTH ELEVATIONS
- A012 BUILDING SECTIONS
- A013 BUILDING SECTIONS
- A014 NORTH PROPERTY LINE TREATMENT
- A015 LANDSCAPE PLAN
- A016 NORTH PROPERTY LINE TREATMENT
- A017 SHADOW STUDIES
- A018 ELEVATIONS
- A019 SECTION
- A020 SECTION

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 BC V6C 2E9
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RECEIVED
 JUL 08 2004
 Oak Bay Building Department

STAFFS Building School
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 WWW.MERRICKARCHITECTURE.COM

A0.01



ST. VINCENT JAMES - 1.02 A.C.



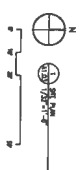
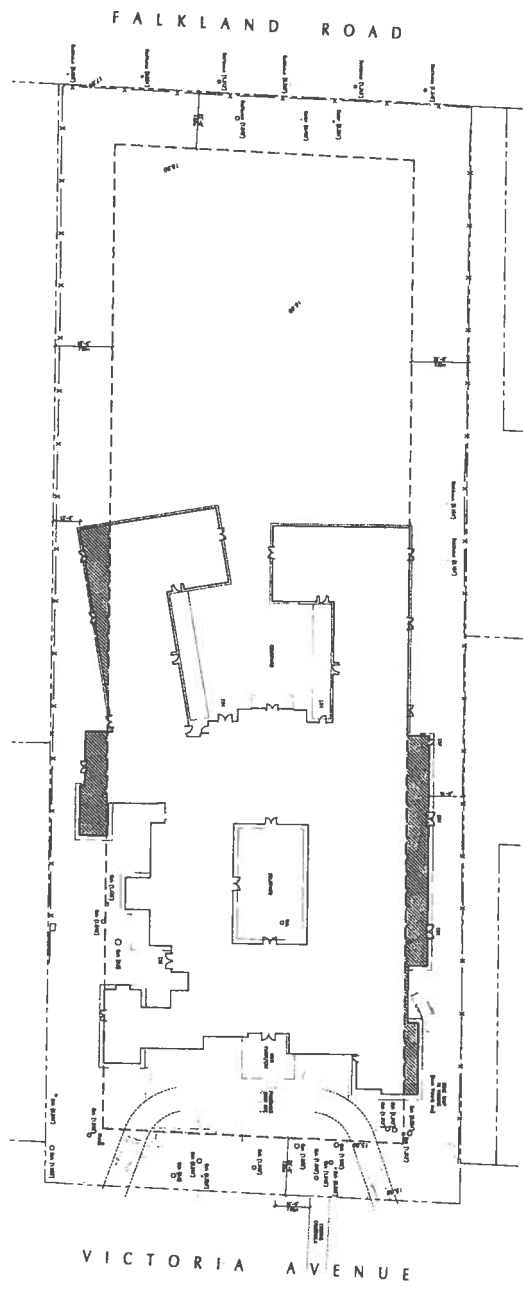
ST. VINCENT JAMES - 1.02 A.C.

MERRICK
 ARCHITECTURE
 1000 WEST 10TH AVENUE
 SUITE 100
 VANCOUVER, BC V6H 2G6
 TEL: 604-273-1111
 FAX: 604-273-1112
 WWW.MERRICKARCHITECTURE.COM

DATE: 2011-08-15
 TIME: 10:00 AM

PROJECT: SMYTH JUNIOR SCHOOL
 LOCATION: 1000 WEST 10TH AVENUE
 DRAWING: SITE PLAN

A1.01



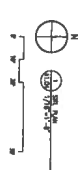
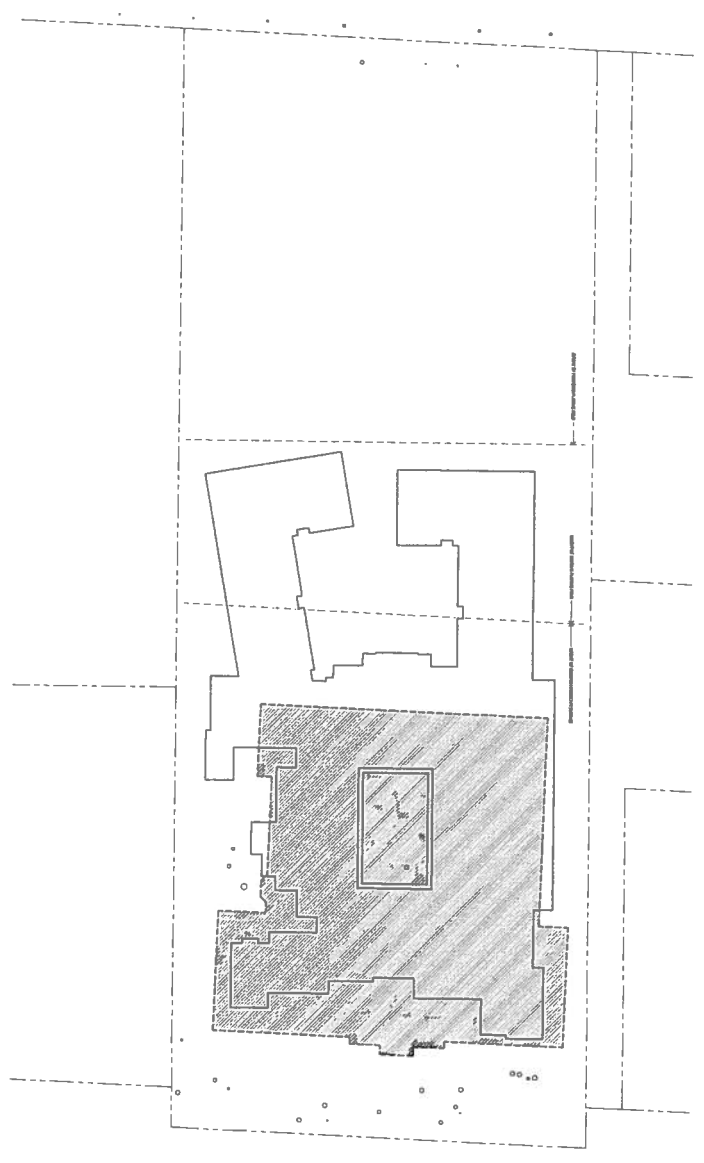
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MERRICK
 ARCHITECTS
 1000 BAYVIEW AVE.
 SUITE 100
 SCARBOROUGH, ONTARIO
 M1S 5B7
 TEL: (416) 291-1111
 FAX: (416) 291-1112
 WWW.MERRICKARCHITECTS.COM

DATE	1998
PROJECT	SMALUS JUNIOR SCHOOL
CLIENT	SCARBOROUGH BOARD OF EDUCATION
DESIGNER	MERRICK ARCHITECTS
SCALE	AS SHOWN
DATE	1998

SMALUS Junior School
 1000 BAYVIEW AVE.
 SUITE 100
 SCARBOROUGH, ONTARIO
 M1S 5B7
 TEL: (416) 291-1111
 FAX: (416) 291-1112
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A1.03



PROPOSED BUILDING FOOTPRINT
 EXISTING BUILDING FOOTPRINT

MERRICK
 ARCHITECTURAL &
 ENGINEERING
 1000 W. 10th Street
 Oklahoma City, Oklahoma 73106
 Phone: (405) 521-1111
 Fax: (405) 521-1112
 Website: www.merrick.com

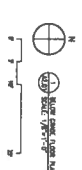
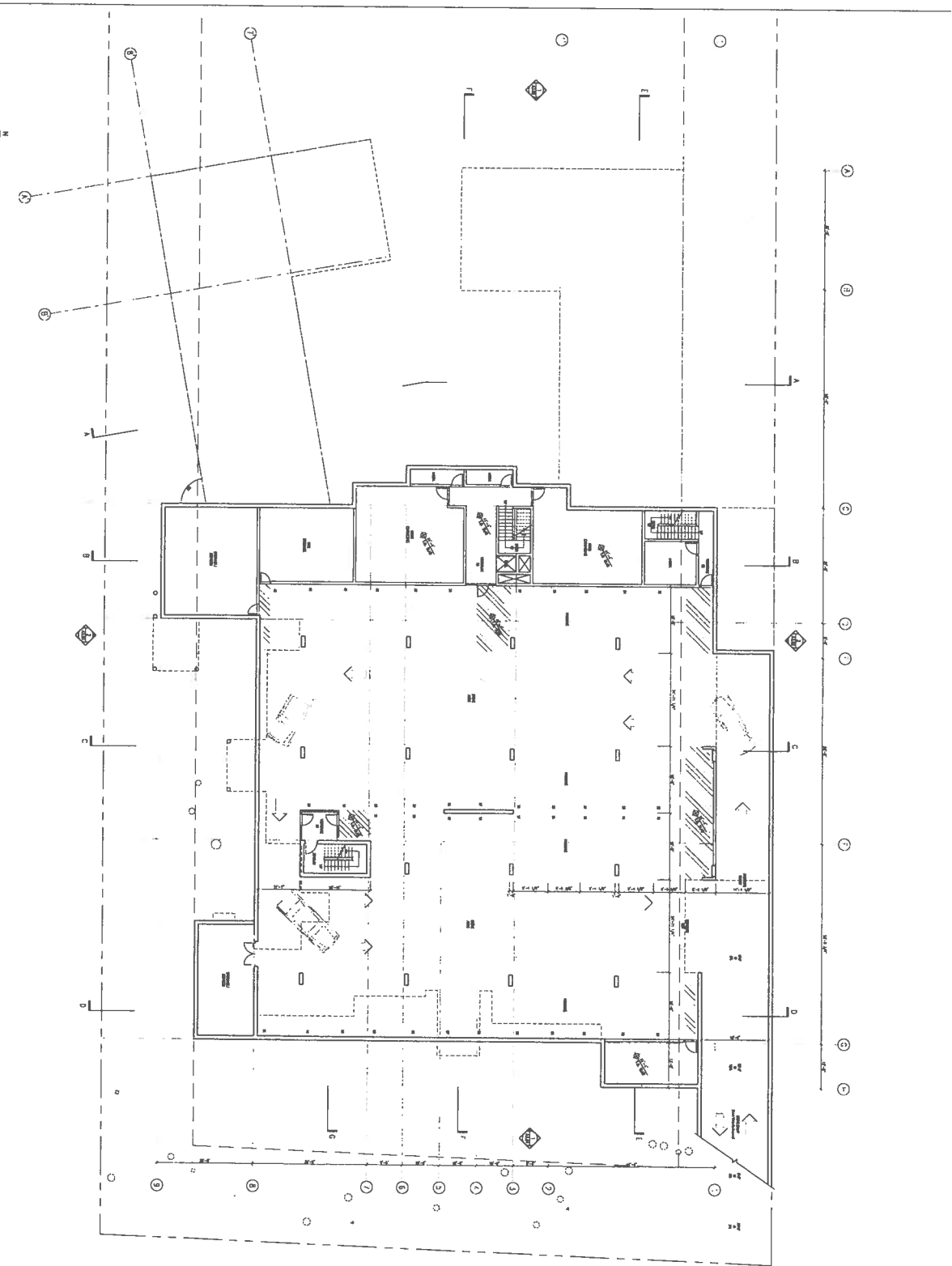
Date: 08/14/2008
 Time: 10:00 AM

Project Name: Skutumpah Junior High School
 Project Number: 08-001
 Drawing Title: Site Plan

Drawing Number: A1.04

Skutumpah Junior High School
 1000 W. 10th Street
 Oklahoma City, Oklahoma 73106
 Phone: (405) 521-1111

A1.04



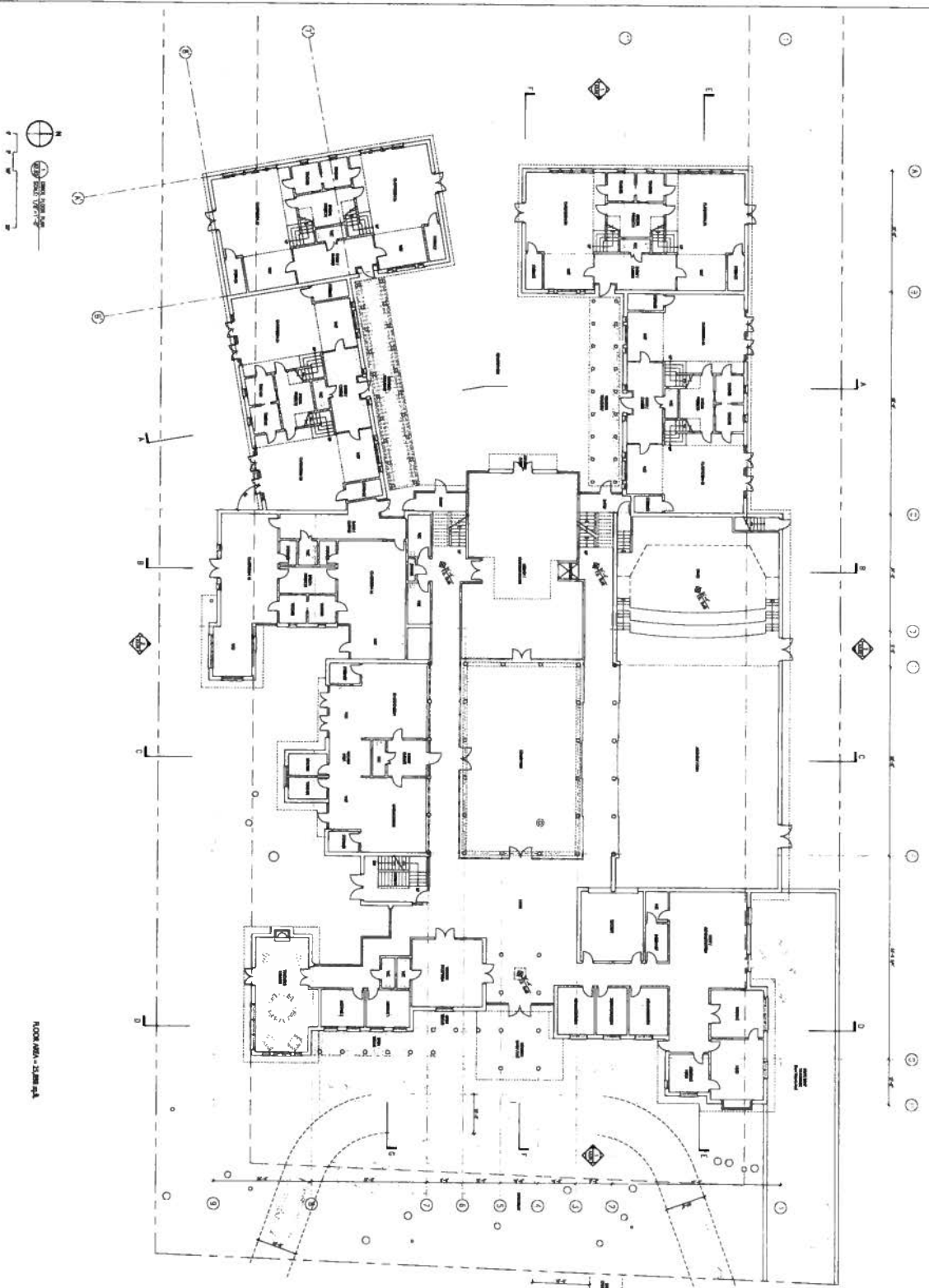
ROOM AREA = 28,201 sq ft

MERRICK
 ARCHITECTURE
 INCORPORATED
 1000 W. BROADWAY
 SUITE 200
 NEW YORK, NY 10014
 TEL: (212) 261-1000
 FAX: (212) 261-1001
 WWW.MERRICKARCH.COM

DATE: 08/14/01
 DRAWING NO: A2.01
 PROJECT: SMALUS JUNIOR SCHOOL
 SHEET NO: 1 OF 1

SMALUS Junior School
 1000 W. BROADWAY
 SUITE 200
 NEW YORK, NY 10014

A2.01

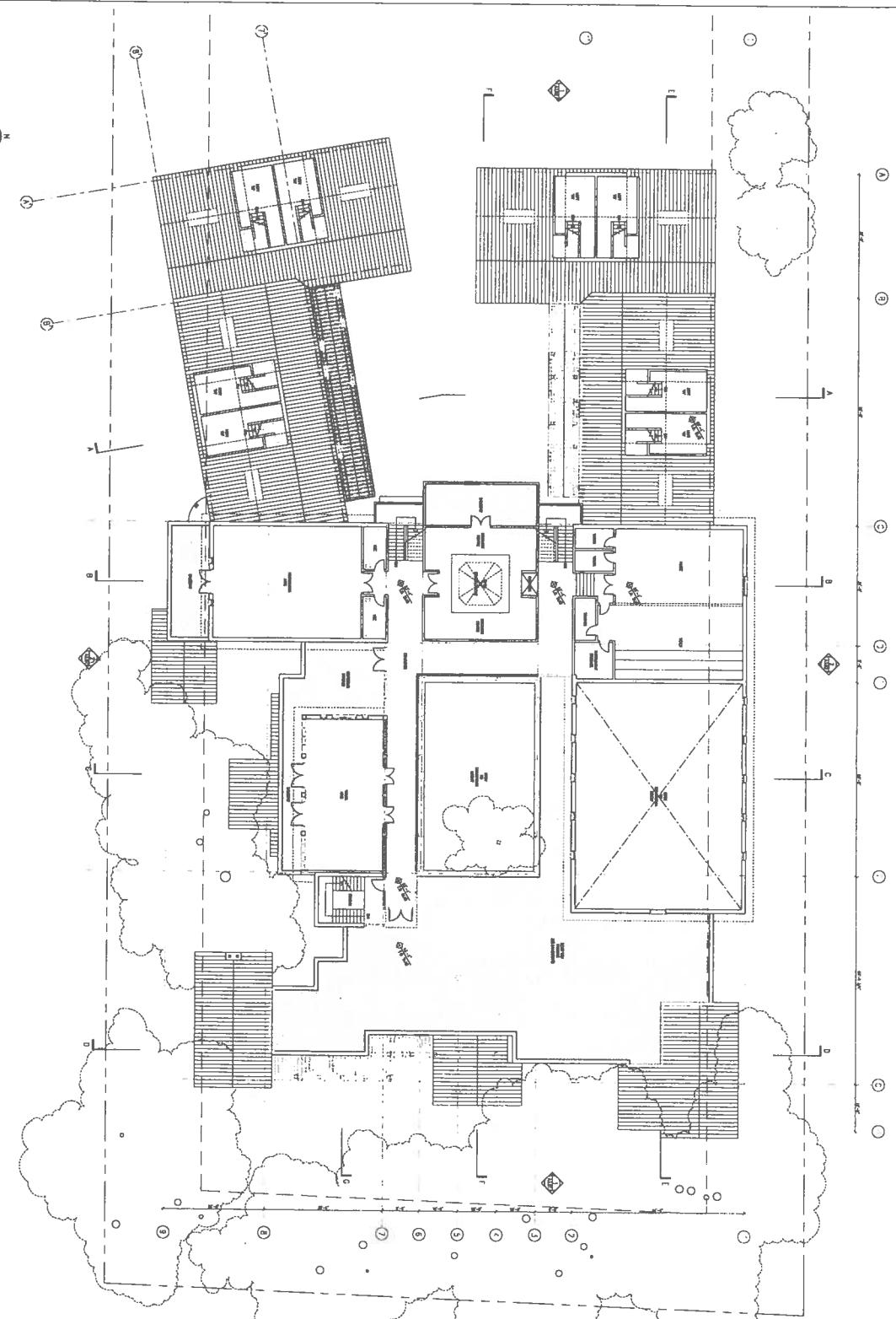


FLOOR AREA - 12,888 S.F.

MERRICK
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 100 GOWER
 TORONTO
 ONTARIO
 M5H 1A7
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 FAX: 961-1112
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SMALUS Junior School
 100 GOWER
 TORONTO, ONTARIO M5H 1A7
 100 GOWER, TORONTO, ONTARIO M5H 1A7

A2.02



ROOM AREA - 4,577 sq. ft.

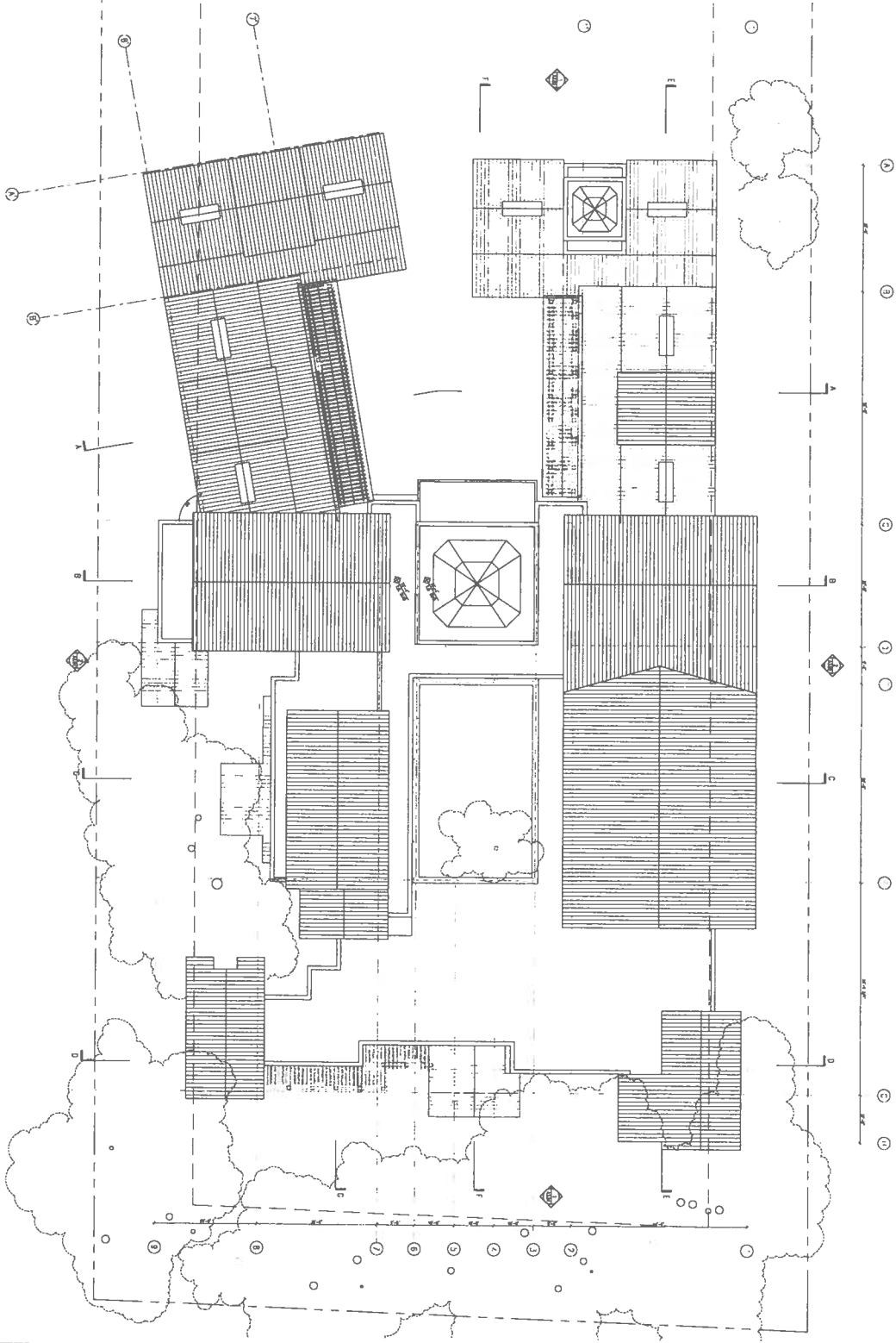
MERRICK
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 FAX: (416) 593-8889
 WWW.MERRICKARCHITECTURE.COM

DATE: 2011-03-28
 SCALE: AS SHOWN
 DRAWN BY: [Name]

PROJECT: SMUS JUNIOR SCHOOL
 CLIENT: [Name]
 ADDRESS: [Address]
 CITY: [City]
 PROVINCE: [Province]
 COUNTRY: [Country]

SMUS Junior School
 200 University Avenue
 Toronto, ON M5G 1R7
 2011-03-28
 A2.03

A2.03



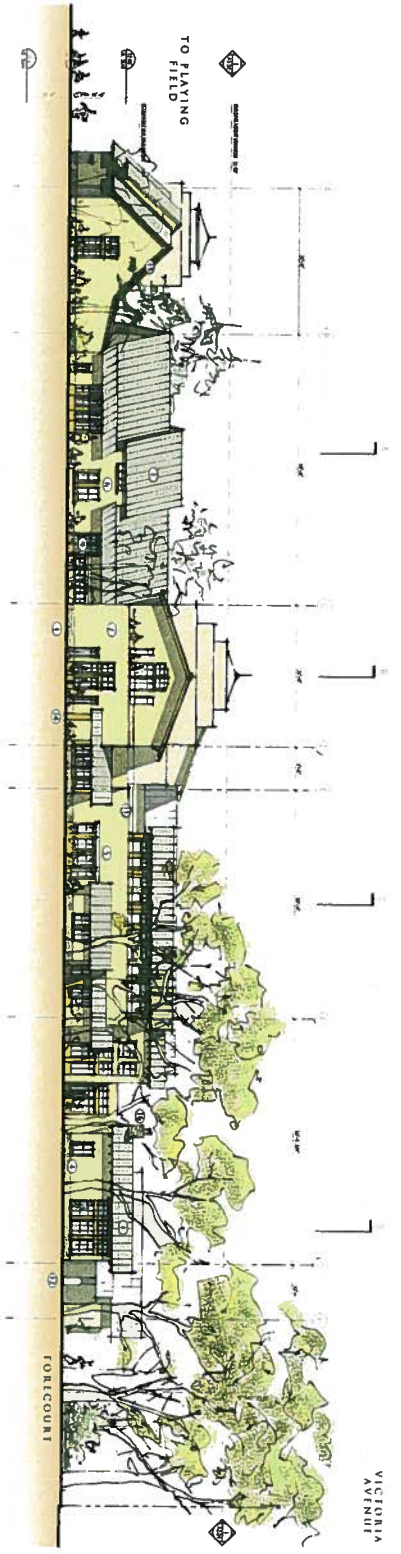
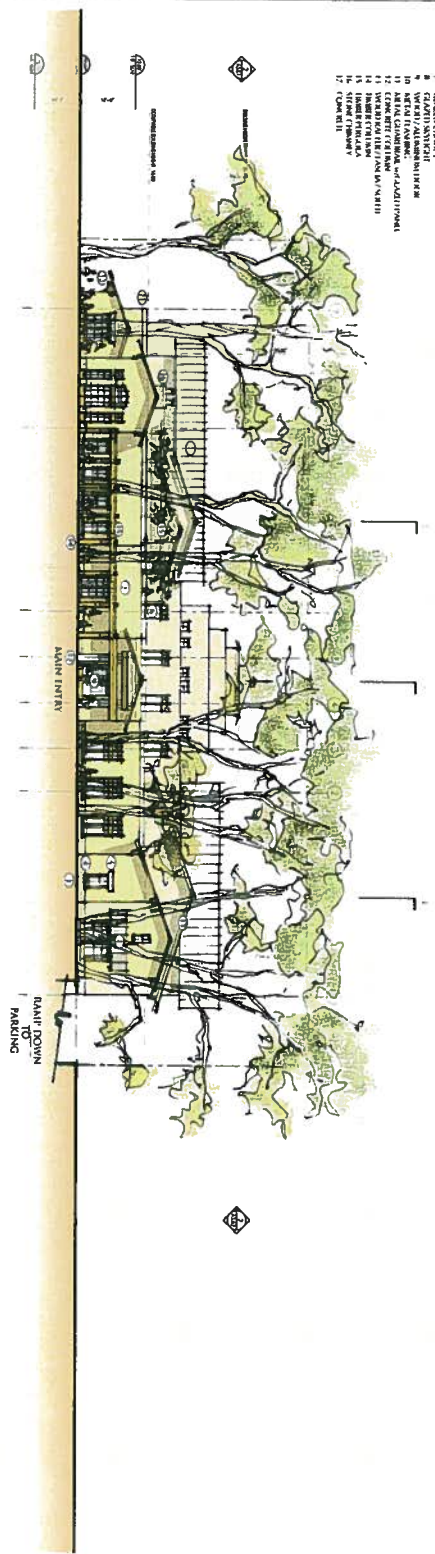
MERRICK
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 1000 UNIVERSITY AVENUE
 SUITE 100
 SALEM, ONTARIO
 L7N 3L7
 CANADA
 TEL: (905) 881-1111
 FAX: (905) 881-1112
 WWW.MERRICKARCHITECTS.COM

PROJECT INFORMATION
 Project Name: SMKUS Junior School
 Client: Ministry of Education
 Location: 1000 University Avenue, Salem, Ontario
 Date: 2010-01-01
 Scale: 1/8" = 1'-0"

SMKUS Junior School
 1000 University Avenue
 Salem, Ontario
 L7N 3L7
 Canada

A2.04

- MATERIALS LEGEND**
1. STAIRING, STAIRCASE RISER
 2. STAIR CASE/STAIRCASE TRIM
 3. STAIR CASE
 4. STAIR CASE
 5. STAIR CASE
 6. WOODEN/ALUMINUM TYPED SIGN
 7. GLASS GLAZING
 8. WOODEN/ALUMINUM TYPED SIGN
 9. WOODEN/ALUMINUM TYPED SIGN
 10. WOODEN/ALUMINUM TYPED SIGN
 11. WOODEN/ALUMINUM TYPED SIGN
 12. CEILING TRIM (SEE PLAN)
 13. WOODEN/ALUMINUM TYPED SIGN
 14. WOODEN/ALUMINUM TYPED SIGN
 15. WOODEN/ALUMINUM TYPED SIGN
 16. WOODEN/ALUMINUM TYPED SIGN
 17. WOODEN/ALUMINUM TYPED SIGN



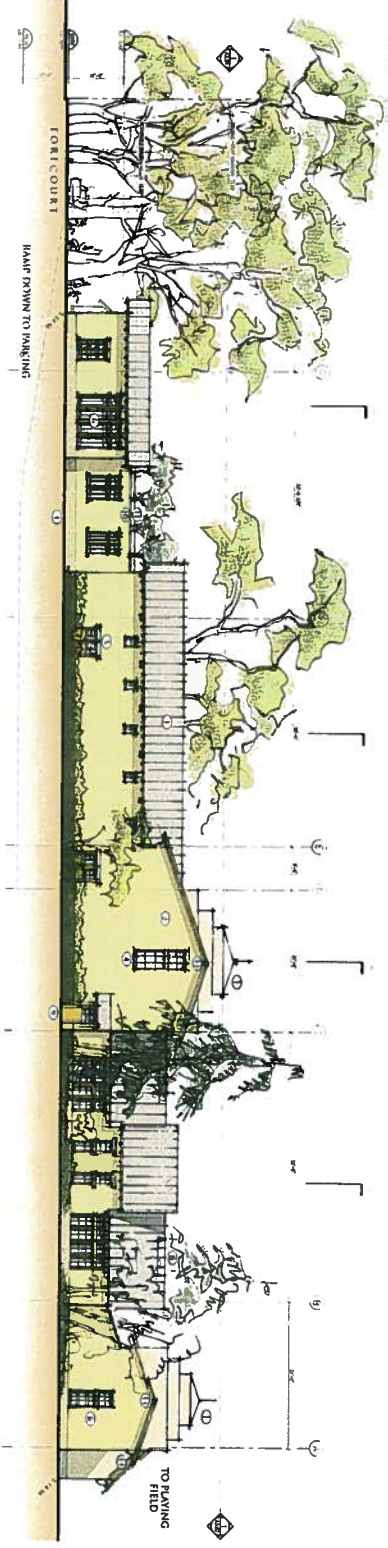
MERRICK
 ARCHITECTURE
 VANCOUVER
 1000 WEST 10TH AVENUE
 VANCOUVER, BC
 V6H 2V6
 TEL: 604-271-1111
 FAX: 604-271-1112
 WWW.MERRICKARCHITECTURE.COM

DATE: 10/10/2011
 PROJECT: SMUHS Junior School
 DRAWING: 3170-001
 SCALE: 1/8" = 1'-0"

SMUHS Junior School
 25 Westside Community School
 25 Westside Community School

A3.01

- MATERIALS LEGEND**
1. STAIRCASE, MASONRY AND METAL
 2. STAIRCASE, METAL
 3. STAIRCASE, WOOD
 4. STAIRCASE, METAL
 5. STAIRCASE, WOOD
 6. WOODEN FLOORING, MASONRY AND METAL
 7. WOODEN FLOORING, METAL
 8. WOODEN FLOORING, WOOD
 9. WOODEN FLOORING, METAL
 10. WOODEN FLOORING, WOOD
 11. WOODEN FLOORING, METAL
 12. WOODEN FLOORING, WOOD
 13. WOODEN FLOORING, METAL
 14. WOODEN FLOORING, WOOD
 15. STAIRCASE, METAL
 16. STAIRCASE, WOOD
 17. STAIRCASE, METAL

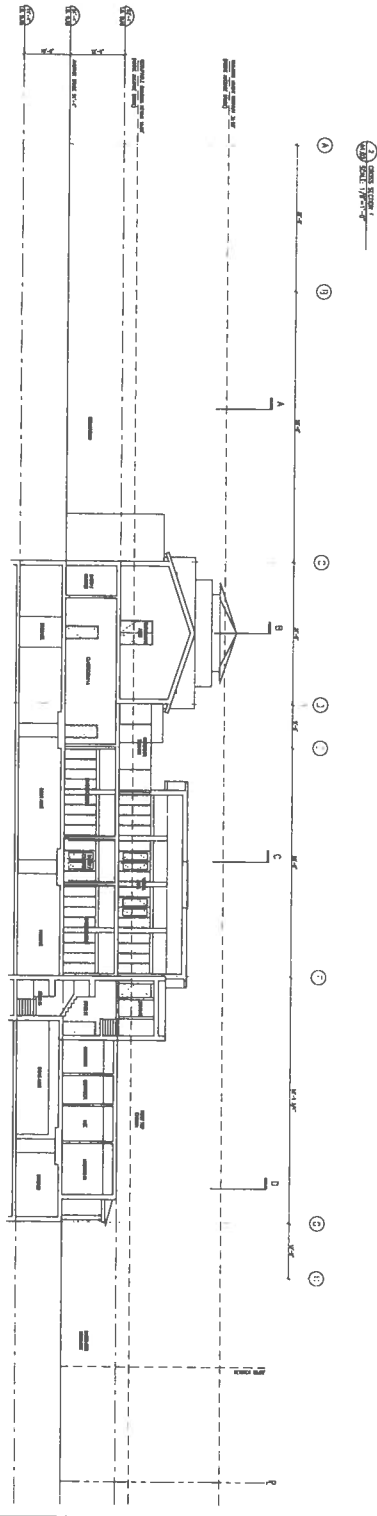
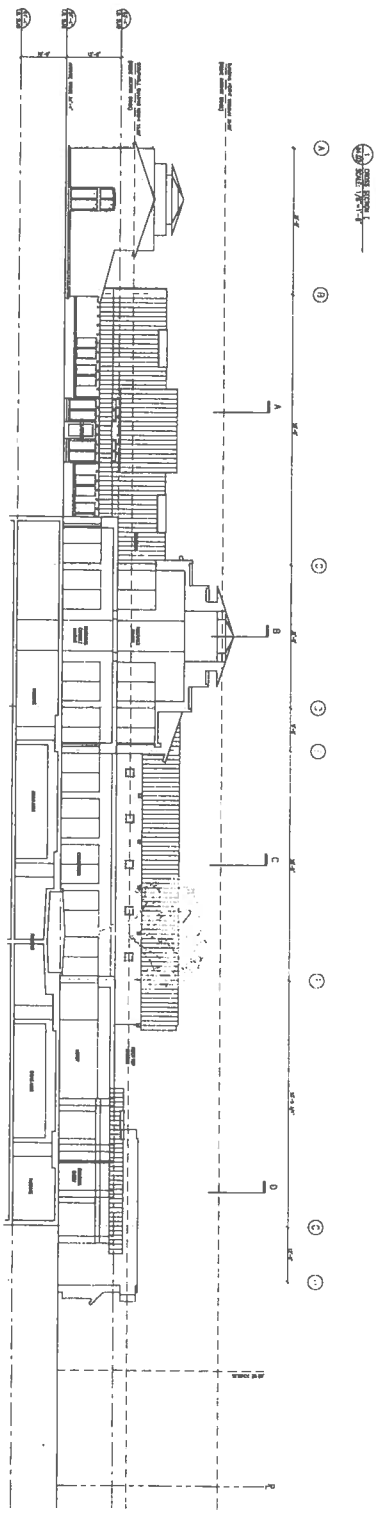
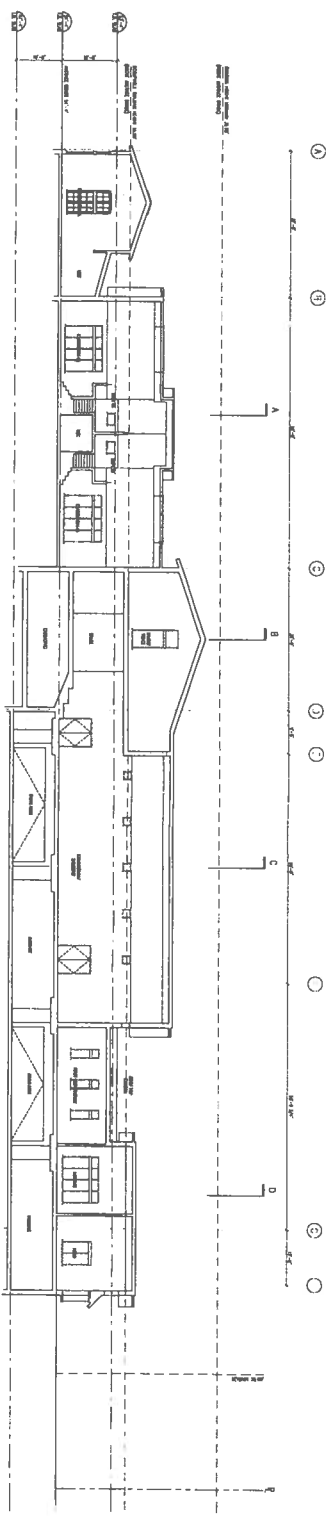


MERRICK
 ARCHITECTURE
 1000 WEST 10TH AVENUE
 VANCOUVER, BC V6H 2G6
 TEL: 604-275-1111
 FAX: 604-275-1112
 WWW.MERRICKARCHITECTURE.COM

NO.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	2012.01.01
2	SCHEMATIC DESIGN	2012.02.01
3	DESIGN DEVELOPMENT	2012.03.01
4	FINAL DESIGN	2012.04.01

SHERIDAN Family School
 1000 WEST 10TH AVENUE
 VANCOUVER, BC V6H 2G6
 © Merrick Architecture 2012

A3.02

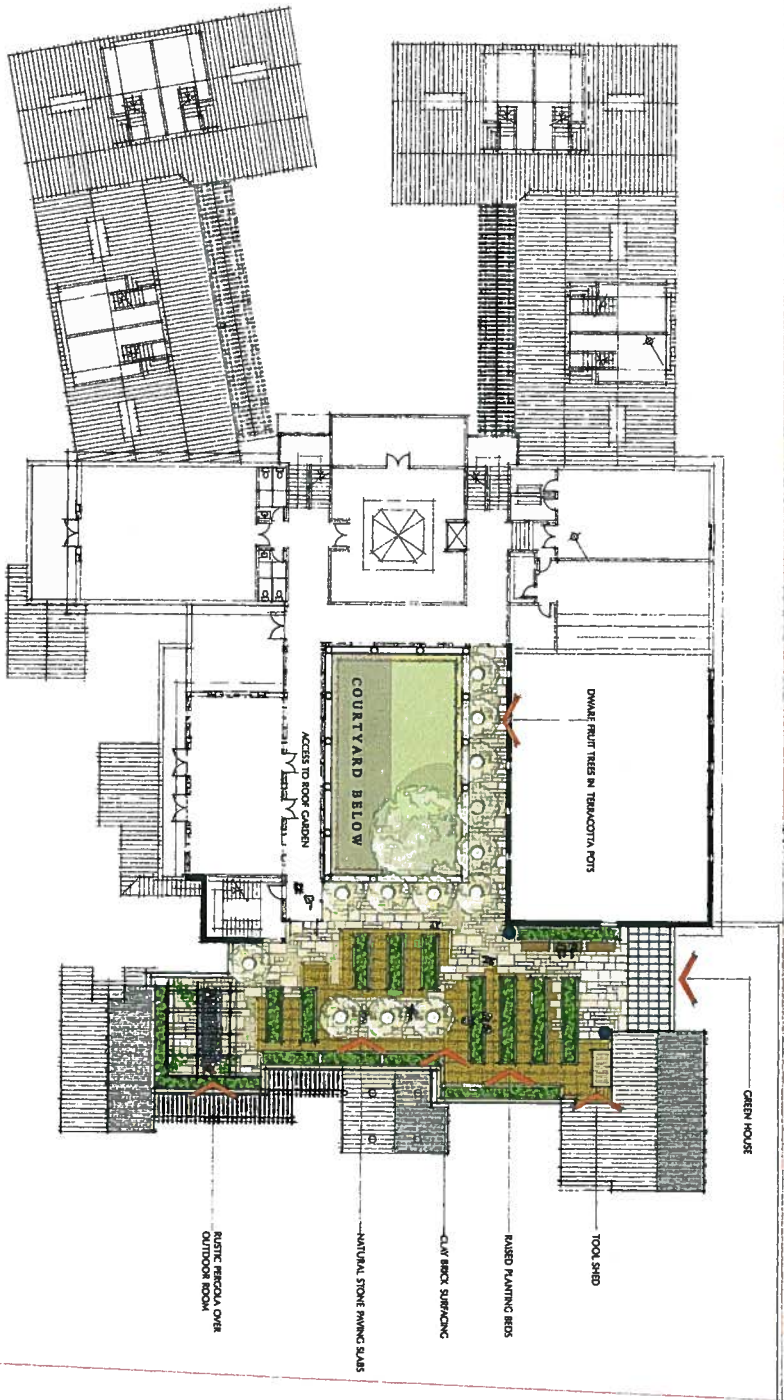


MERRICK
 ARCHITECTURE
 1000 BROADWAY
 NEW YORK, NY 10018
 TEL: 212 696 1000
 FAX: 212 696 1001
 WWW.MERRICKARCH.COM

Scale: 1/8" = 1'-0"
 Date: 10/15/10

Project: SHALUS Junior School
 Location: 300 W 10th St
 City: New York, NY 10014
 Architect: MERRICK ARCHITECTURE
 Date: 10/15/10

A4.02



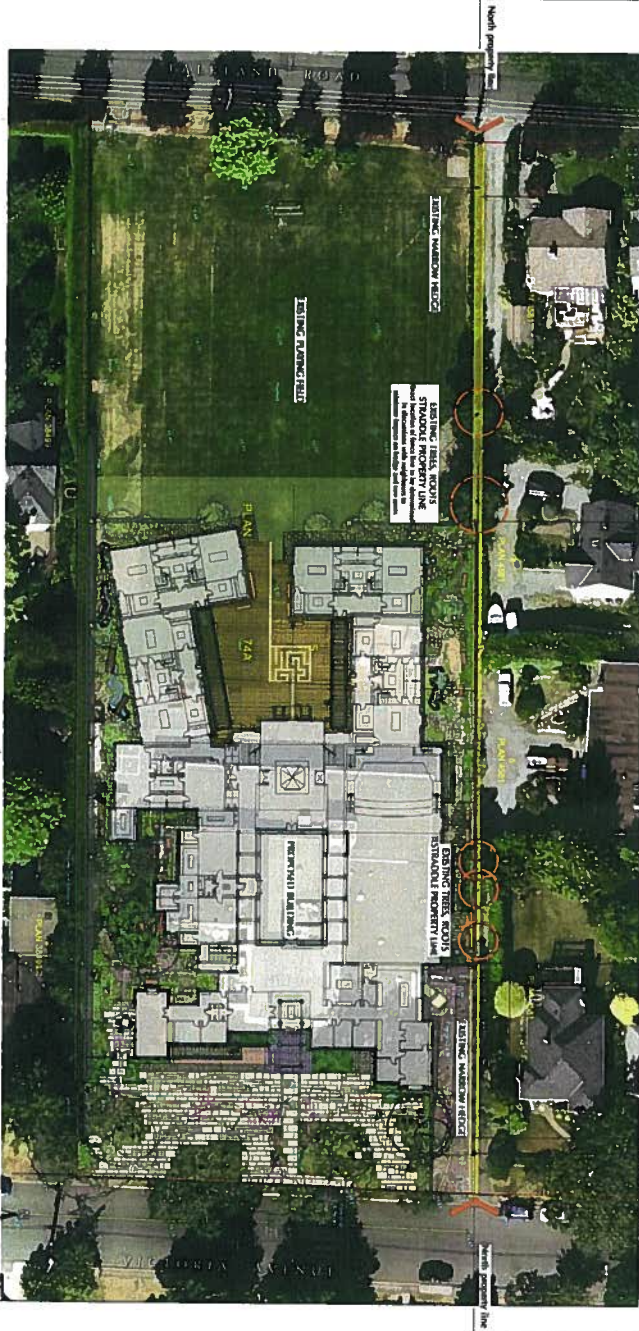
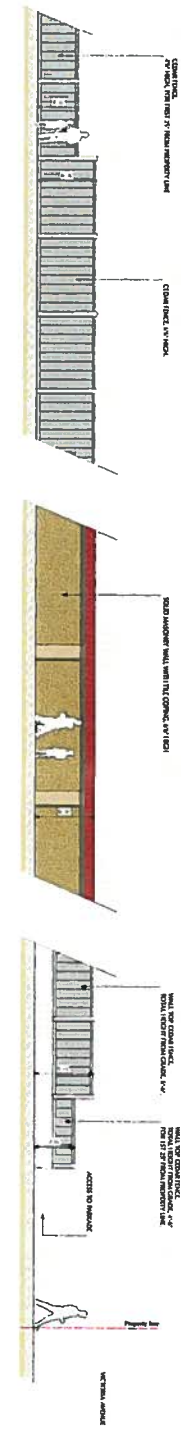
LANDSCAPE SCHEMATIC SHALL BE CONSIDERED AS ACCORDING WITH THE PROVISIONS OF THE LATEST EDITION OF THE LANDSCAPE STANDARDS, LAWS, REGULATIONS AND SYSTEMS GOVERNING TO MAINTAIN PLANTING TOOLS.

NO.	DESCRIPTION	QTY	UNIT	REMARKS
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MERRICK
 ARCHITECTURE ■
 1000 WEST 10TH AVENUE
 VANCOUVER, BC
 V6H 2Y6
 TEL: 604-271-1111
 FAX: 604-271-1112
 WWW.MERRICKARCHITECTURE.COM

SMALL & ROSSILL
 LANDSCAPE ARCHITECTS INC.
 1000 WEST 10TH AVENUE
 VANCOUVER, BC
 V6H 2Y6
 TEL: 604-271-1111
 FAX: 604-271-1112
 WWW.SMALLANDROSSILL.COM

PROPOSED NORTH PROPERTY LINE EOOD TREATMENTS
SCALE: 1/8" = 1'-0"

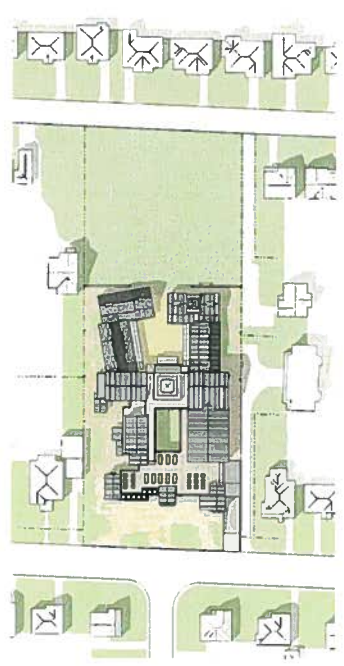


MERRICK
ARCHITECTURE
1000 W. 10TH AVENUE
DENVER, CO 80202
TEL: 303.733.1111
WWW.MERRICKARCHITECT.COM

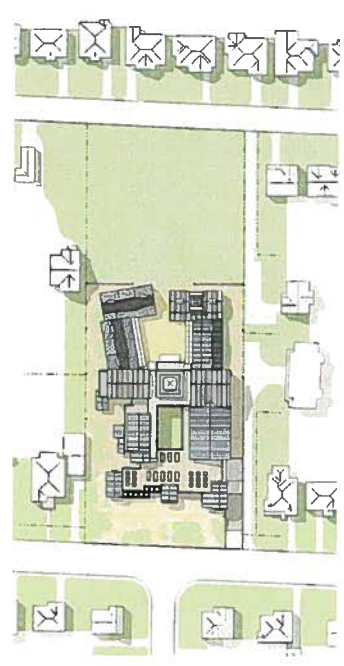
SMALL & OSSELL
ARCHITECTS
1000 W. 10TH AVENUE
DENVER, CO 80202
TEL: 303.733.1111
WWW.SMALLANDOSSELL.COM

SKWIS Junior School
1000 W. 10TH AVENUE
DENVER, CO 80202
TEL: 303.733.1111
WWW.SKWISJUNIOR.SCHOOL

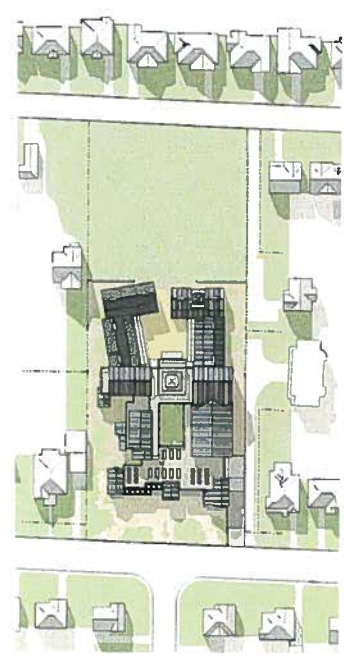
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DATE: 10/1/2011
DRAWN BY: ASB/MSM
CHECKED BY: ASB/MSM
SCALE: 1/8" = 1'-0"



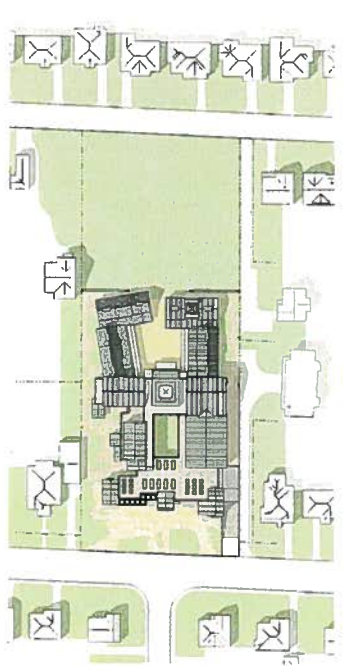
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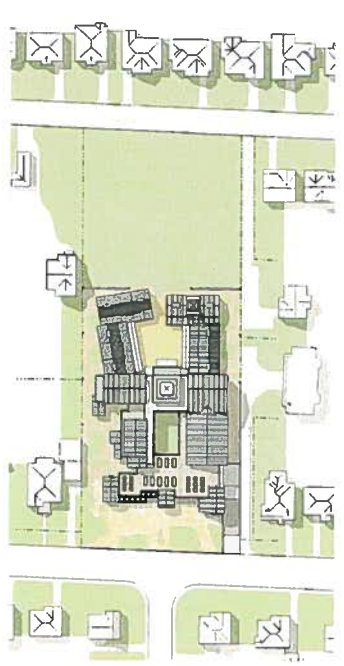
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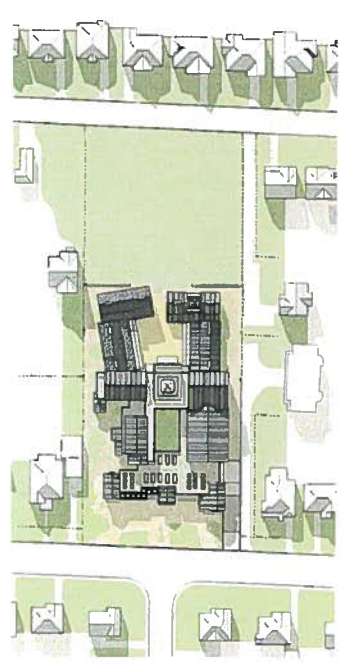
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④ Plan Section - 1/8" = 1'-0"



④ Plan Section - 1/8" = 1'-0"



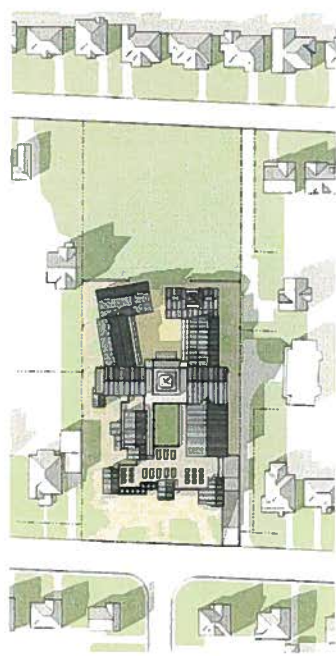
④ Plan Section - 1/8" = 1'-0"

MERRICK
 ARCHITECTURE
 1000 W. WASHINGTON ST.
 SUITE 100
 MILWAUKEE, WI 53233
 TEL: 414.224.1111
 FAX: 414.224.1112
 WWW.MERRICKARCHITECTURE.COM

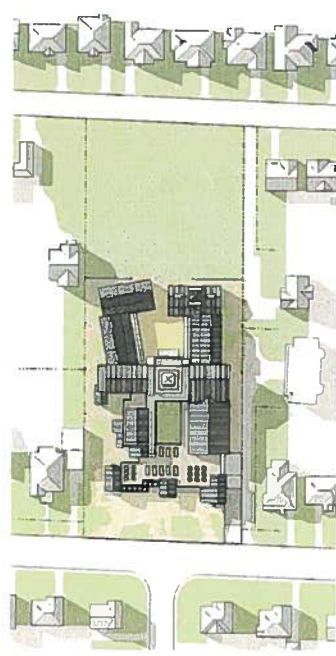
DATE: 08/14/12
 DRAWN BY: J. MERRICK
 CHECKED BY: J. MERRICK
 PROJECT NO: 12-001

SKOLIS Junior School
 1000 W. WASHINGTON ST.
 SUITE 100
 MILWAUKEE, WI 53233

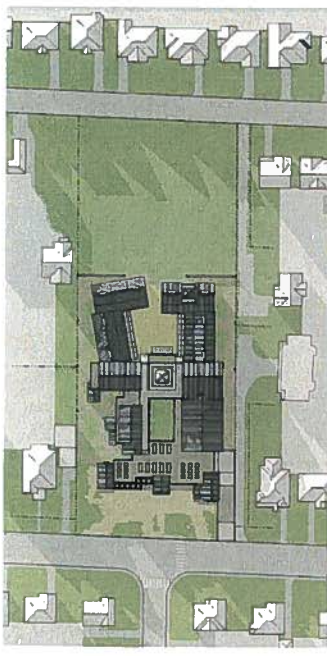
SS1



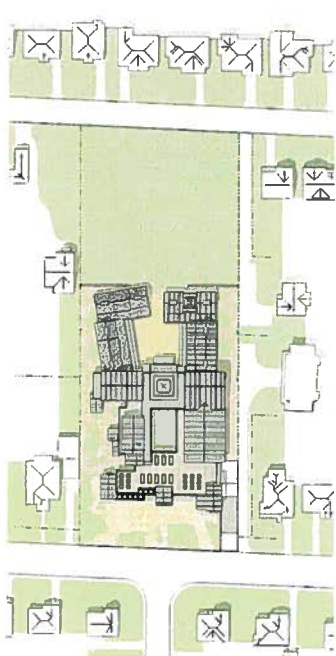
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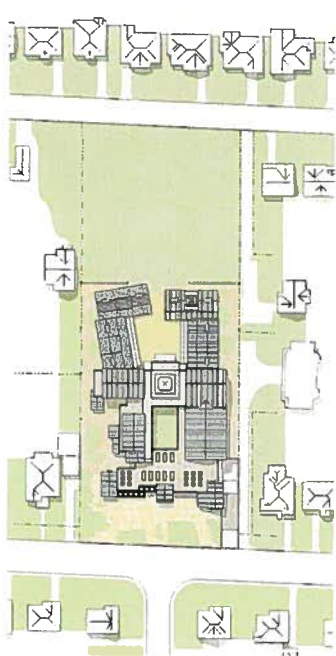
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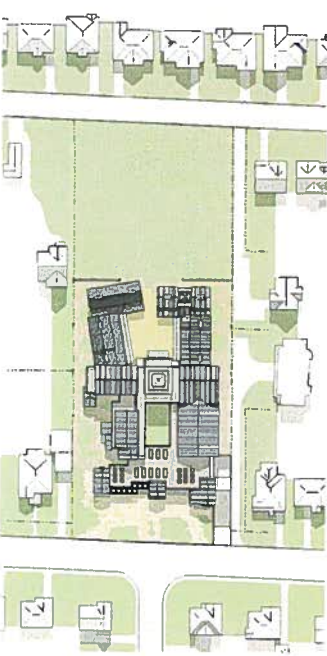
③ WEST ELEVATION - 3/24



④ WEST ELEVATION - 3/24



⑤ WEST ELEVATION - 3/24



⑥ WEST ELEVATION - 3/24

MERRICK
 ARCHITECTURE
 3030 WILSON
 TALLAHASSEE, FL 32310
 PHONE: 904.833.1111
 FAX: 904.833.1112
 WWW.MERRICKARCHITECTURE.COM

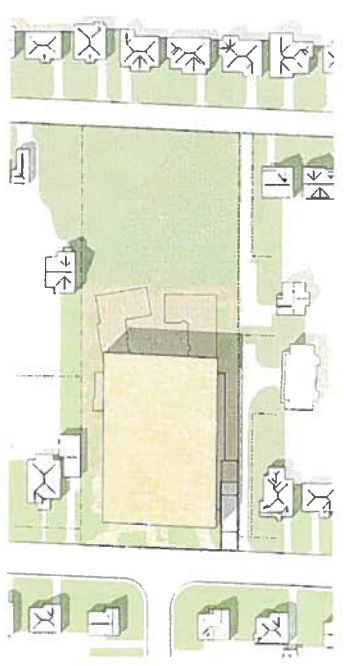
DATE: 03/24/2011
 TIME: 10:00 AM

PROJECT: SMU'S JUNIOR SCHOOL
 LOCATION: 2100 UNIVERSITY BLVD
 TALLAHASSEE, FL 32310

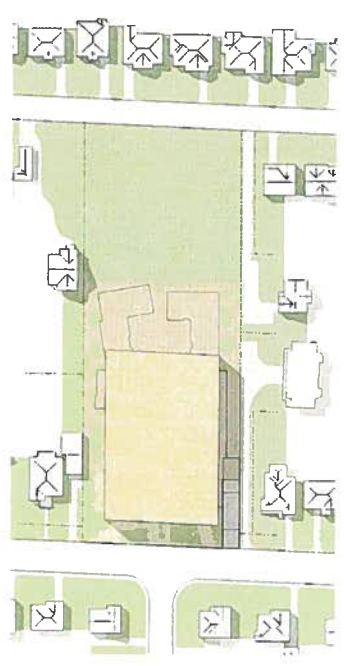
SCALE: 1/8" = 1'-0"

SMU'S JUNIOR SCHOOL
 2100 UNIVERSITY BLVD
 TALLAHASSEE, FL 32310

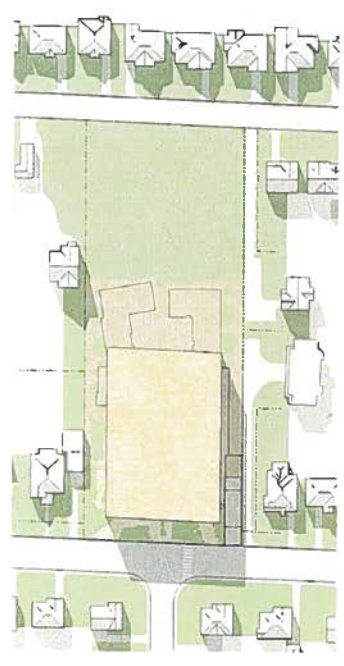
SS2



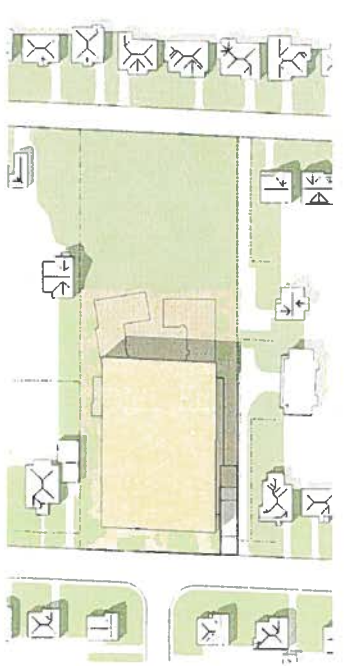
④ Plan View - 2nd



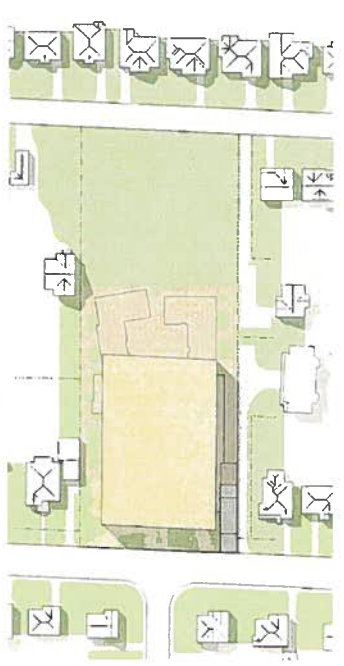
③ Plan View - 2nd



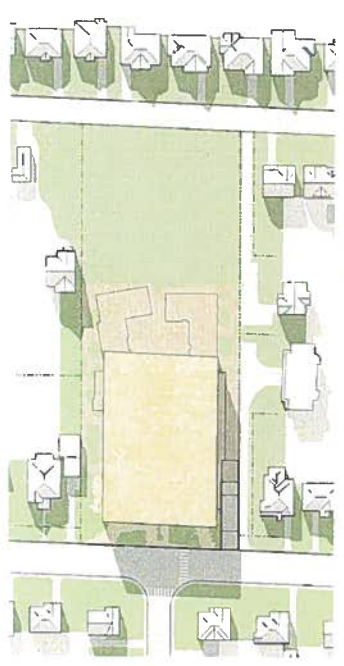
② Plan View - 2nd



④ Plan View - 2nd



③ Plan View - 2nd



② Plan View - 2nd

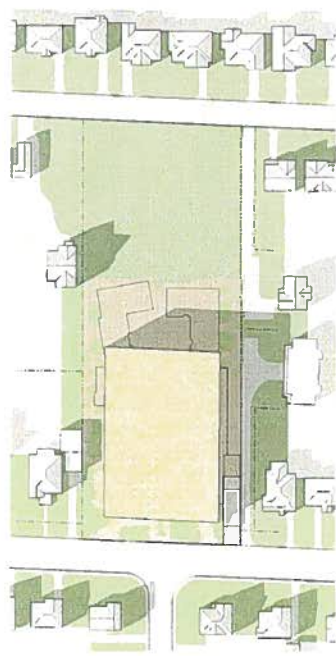
MERRICK
 ARCHITECTURE
 1000 SHEPPARD AVENUE EAST
 SUITE 100
 SCARBOROUGH, ONTARIO
 M1B 4Y7
 TEL: (416) 291-1111
 FAX: (416) 291-1112
 WWW.MERRICKARCHITECTURE.COM

DATE: 08/11/2011
 TIME: 10:00 AM

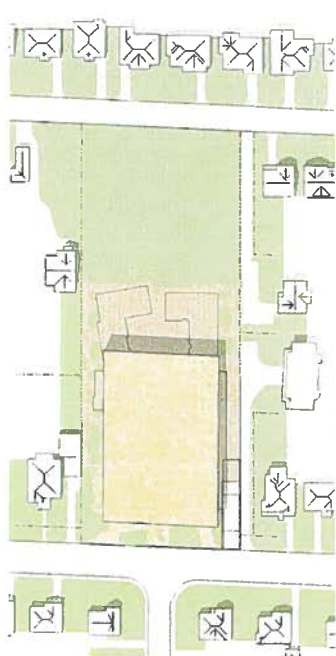
PROJECT: SMUS Junior School
 1000 SHEPPARD AVENUE EAST
 SCARBOROUGH, ONTARIO
 M1B 4Y7

SCALE: 1/8" = 1'-0"

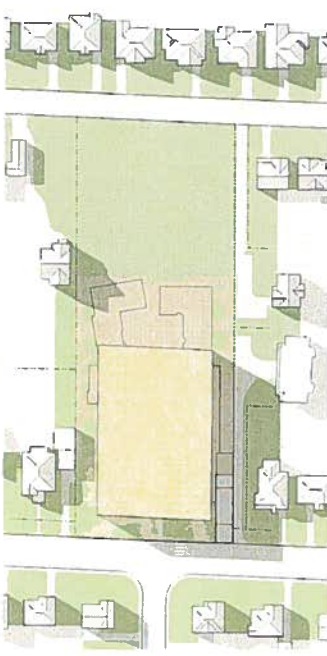
SMUS Junior School
 1000 SHEPPARD AVENUE EAST
 SCARBOROUGH, ONTARIO
 M1B 4Y7
 ARCHITECT: MERRICK ARCHITECTURE
 DATE: 08/11/2011
 TIME: 10:00 AM
SS3



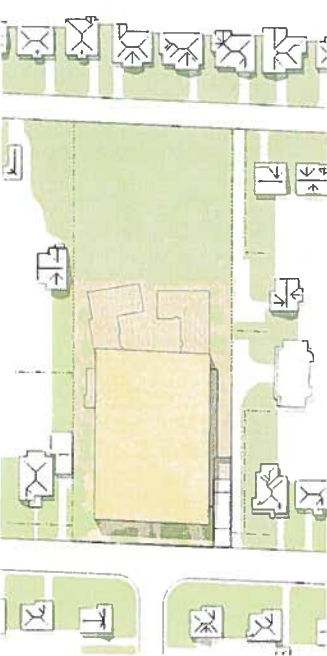
① FIRST DESIGN - 1st



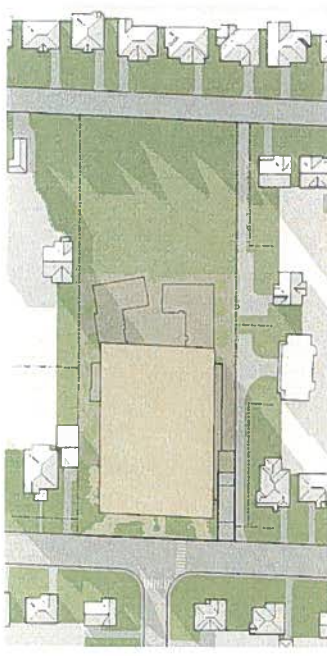
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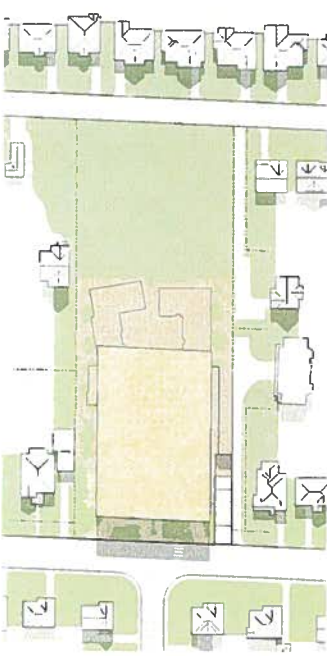
③ FIRST DESIGN - 3rd



④ FIRST DESIGN - 4th



⑤ FIRST DESIGN - 5th



⑥ FIRST DESIGN - 6th

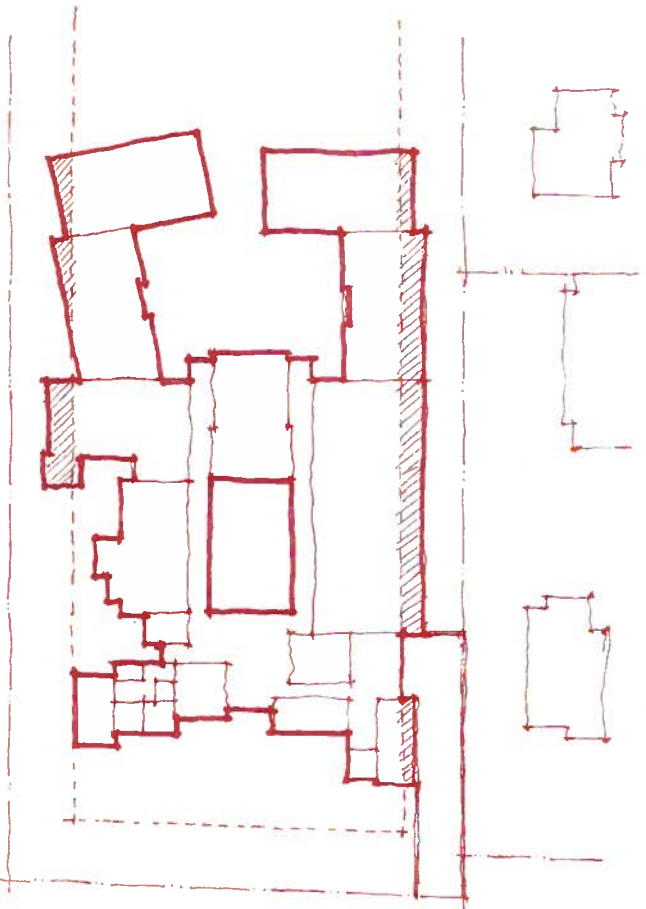
MERRICK
 ARCHITECTURAL
 300 W. 10TH ST.
 DENVER, CO 80202
 TEL: 303.733.1111
 WWW.MERRICKARCH.COM

DATE: 10/15/2010
 TIME: 10:00 AM

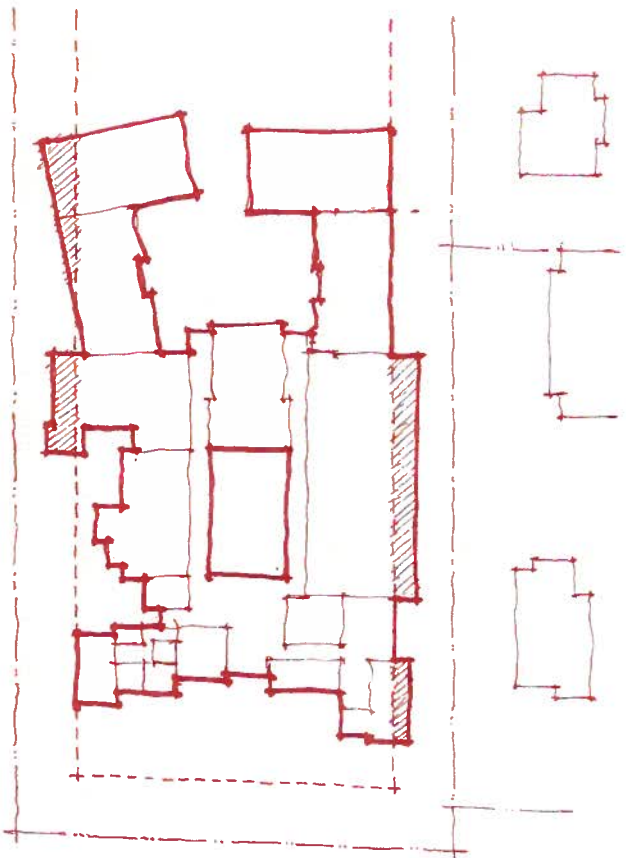
PROJECT: STURIS JUNIOR SCHOOL
 LOCATION: 1000 10TH ST
 DRAWING: SS4

STURIS Junior School
 1000 10TH ST
 DENVER, CO 80202
 303.733.1111
 WWW.MERRICKARCH.COM

SS4



INITIAL PROPOSAL



REVISED PROPOSAL



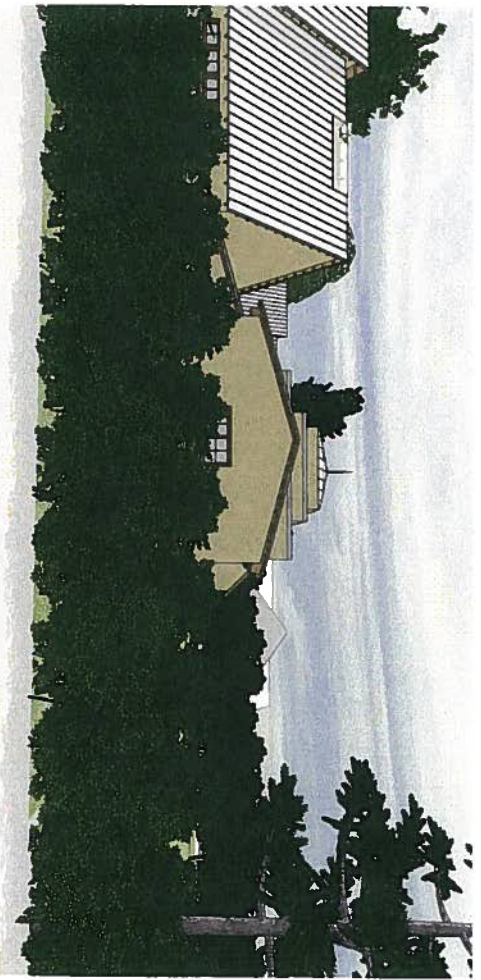
St. Michaels
University School

Variance Revisions
JUNIOR SCHOOL

MERRICK



INITIAL PROPOSAL



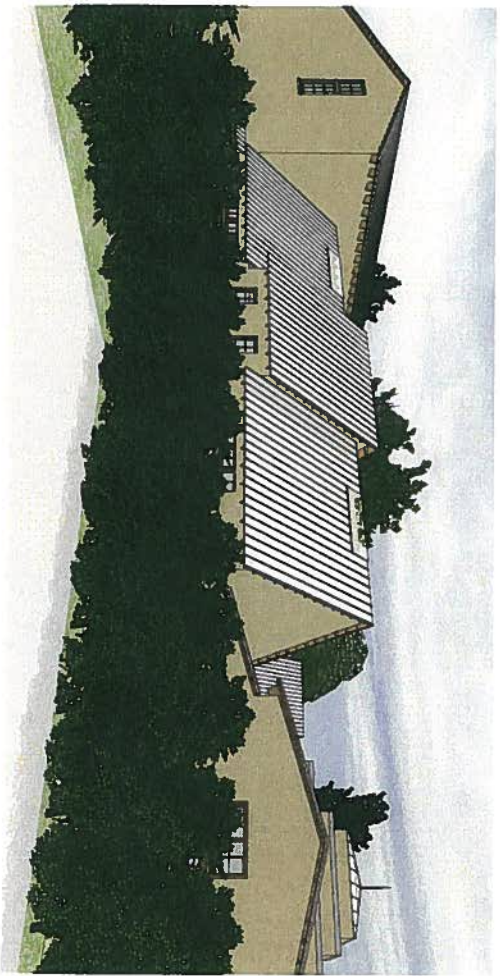
REVISED PROPOSAL



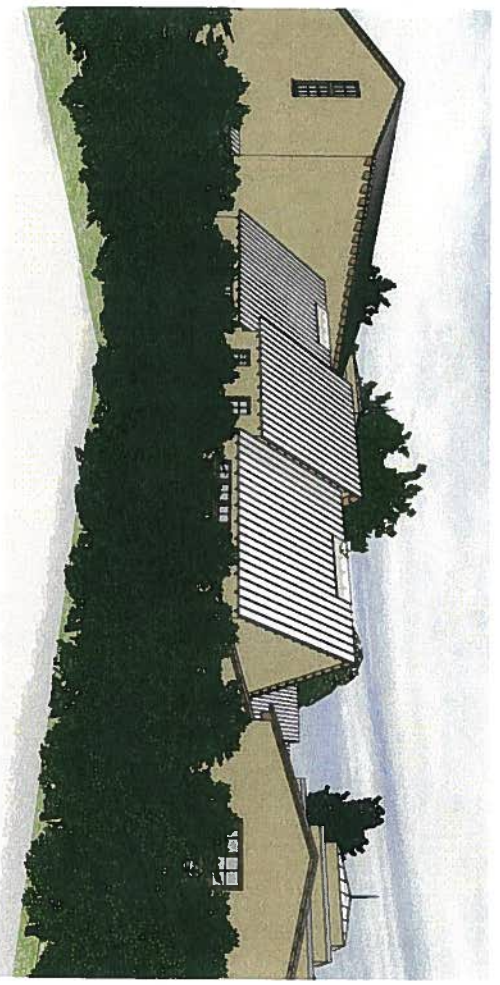
St. Michaels
University School

View Comparisons
JUNIOR SCHOOL

M E R R I C K



INITIAL PROPOSAL



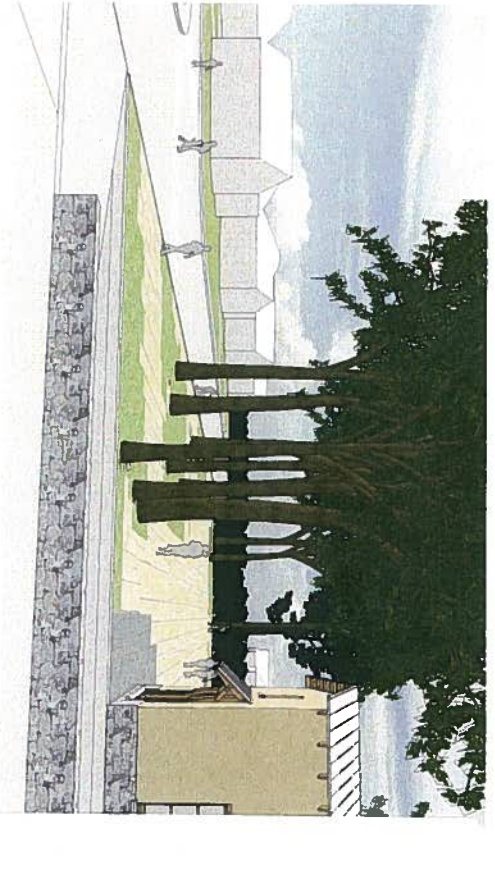
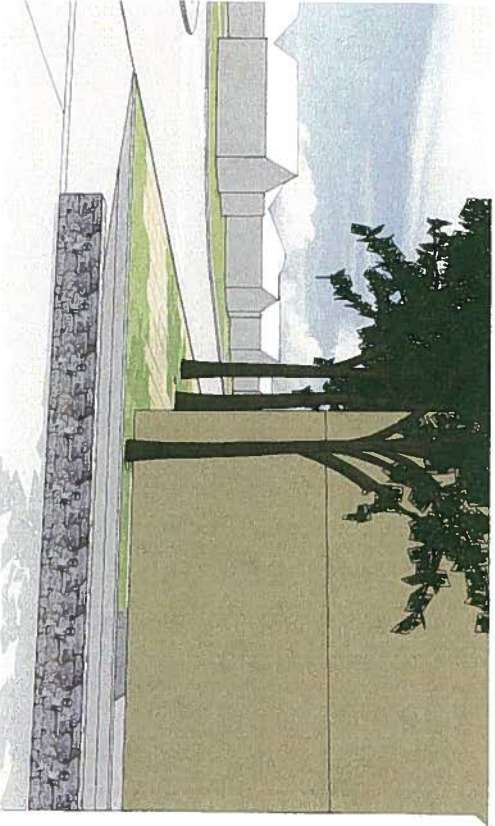
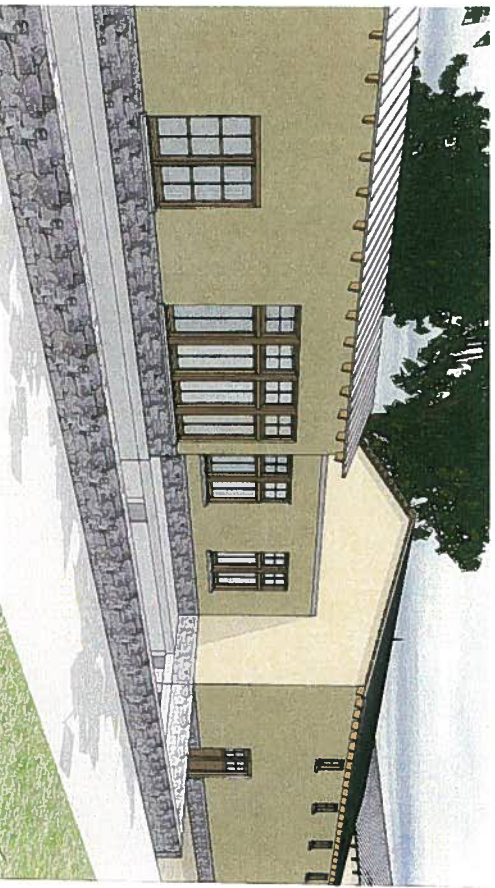
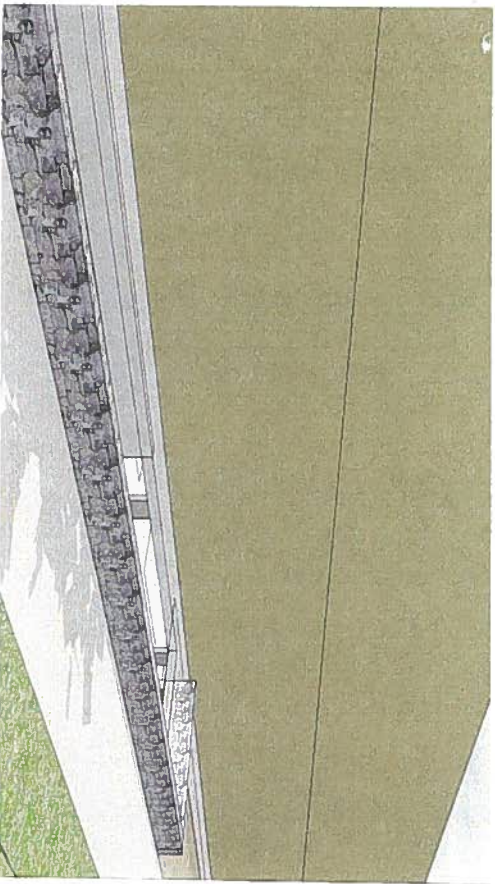
REVISED PROPOSAL



St. Michaels
University School

View Comparisons
JUNIOR SCHOOL

MERRICK



EXISTING ZONING (no Variance)

PROPOSED (w/Variance)



St. Michaels
University School

View Comparisons - Existing Zoning vs Proposed Variance
JUNIOR SCHOOL

MERRICK

2014-194

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 8, 2014
RE: Uplands Building Permit Application – 3370 Uplands Road
Lot D, Block 16, Section 31, Victoria District, Plan 2682

BACKGROUND:

An Uplands building permit application has been received to construct a 96 square foot accessory building to house the electrical service for the house located at 3370 Uplands Road. The accessory building is to be located at the rear of the property.

DISCUSSION:

Attached for your information are:

- a) The report of the Advisory Design Panel meeting of July 8, 2014 relating to the proposed works at 3370 Uplands Road.
- b) Memo from Municipal Arborist dated July 7, 2014 regarding trees on the subject property.
- c) Reduced copies of the plans of the proposed work.

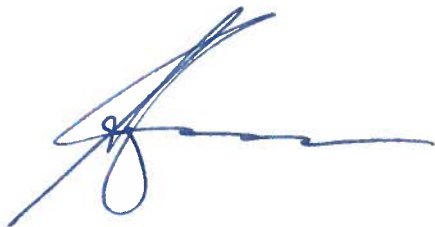
OPTIONS:

1. That it be recommended to Council that the plans to construct a 96 square foot accessory building to house the electrical service for the house located at 3370 Uplands Road be approved as to siting and architectural design.
2. That it be recommended to Council that the application be denied.

RECOMMENDATION(S):

That it be recommended to Council that the plans to construct a 96 square foot accessory building to house the electrical service for the house located at 3370 Uplands Road be approved as to siting and architectural design.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Roy Thomassen', with a horizontal line extending to the right.

Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.

A handwritten signature in black ink, appearing to read 'Lorraine Hilton', with a horizontal line extending to the right.

Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-195

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 8, 2014
RE: Uplands Building Permit Application – 3355 Midland Road
Lot 8, Section 31, Victoria District, Plan 10433

BACKGROUND:

An Uplands building permit application was approved early 2014 for the construction of a residential dwelling located at 3355 Midland Road. The applicant has returned seeking approval for revisions to the proposal consisting of a material change from granite panels to dolomite stone.

DISCUSSION:

Attached for your information are:

- a) The report of the Advisory Design Panel meeting of July 8, 2014 relating to the proposed revisions of the previously approved work relating to the construction of the new residential dwelling located at 3355 Midland Road.
- b) Reduced copies of the plans of the proposed work.

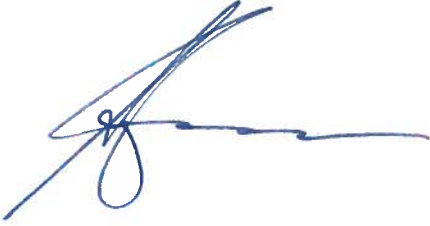
OPTIONS:

1. That it be recommended to Council that the proposed revisions for the project located at 3355 Midland Road consisting of a material change from granite panels to dolomite stone be approved as to architectural design.
2. That it be recommended to Council that the application be denied.

RECOMMENDATION(S):

That it be recommended to Council that the proposed revisions for the project located at 3355 Midland Road consisting of a material change from granite panels to dolomite stone be approved as to architectural design.

Respectfully Submitted,



Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.



Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-196

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 8, 2014
RE: Uplands Building Permit Application – 3075 Cadboro Bay Road
Lot 4, Block 18, Section 31, Victoria District, Plan VIP1216A

BACKGROUND:

An Uplands building permit application has been received to replace and expand an existing deck and stairs at the rear of the property located at 3075 Cadboro Bay Road.

DISCUSSION:

Attached for your information are:

- a) The report of the Advisory Design Panel meeting of July 8, 2014 relating to the proposed works at 3075 Cadboro Bay Road.
- b) Memo from Municipal Arborist dated July 7, 2014 regarding trees on the subject property.
- c) Reduced copies of the plans of the proposed work.

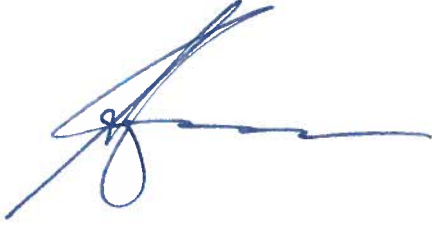
OPTIONS:

1. That it be recommended to Council that the plans to replace and expand an existing deck and stairs at the rear of the property located at 3075 Cadboro Bay Road be approved as to siting and architectural design.
2. That it be recommended to Council that the application be denied.

RECOMMENDATION(S):

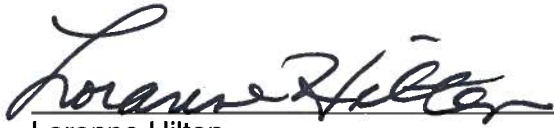
That it be recommended to Council that the plans to replace and expand an existing deck and stairs at the rear of the property located at 3075 Cadboro Bay Road be approved as to siting and architectural design.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Roy Thomassen', written over a horizontal line.

Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.

A handwritten signature in black ink, appearing to read 'Lorraine Hilton', written over a horizontal line.

Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-197

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 9, 2014
RE: Uplands Building Permit Application – 2810 Lansdowne Rd
Lot 14, Block A, Section 31, Victoria District, Plan VIP3599

BACKGROUND:

An Uplands building permit application has been received for the construction of a residential dwelling at the property located at 2810 Lansdowne Road. The existing house is to be removed from the site.

DISCUSSION:

Attached for your information are:

- a) The reports of the Advisory Design Panel meetings of July 8, 2014 and June 3, 2014 relating to the construction of a residential dwelling located at 2810 Lansdowne Road.
- b) Memos from Municipal Arborist dated July 7, 2014 and May 22, 2014 regarding trees on the subject property.
- c) Reduced copies of the plans of the proposed work.

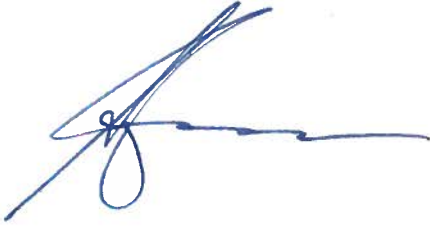
OPTIONS:

1. That it be recommended to Council that the plans to construct a single family residential dwelling at 2810 Lansdowne Road be approved as to siting and architectural design.
2. That it be recommended to Council that the application be denied.

RECOMMENDATION(S):

That it be recommended to Council that the plans to construct a single family residential dwelling at 2810 Lansdowne Road be approved as to siting and architectural design.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Roy Thomassen', with a horizontal line extending to the right.

Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.

A handwritten signature in black ink, appearing to read 'Lorraine Hilton', with a horizontal line extending to the right.

Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-198

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 8, 2014
RE: Advisory Design Panel Recommendation Design Approval
1640 York Place
Lot 7, Section 69, Victoria District, Plan VIS1752

BACKGROUND:

An application has been received to construct a den/solarium by enclosing the existing deck on the north side of the dwelling located at 1640 York Place. A covenant on the property requires Advisory Design Panel and Council approval prior to the issuance of a building permit.

DISCUSSION:

Attached for your information are:

- a) The report of the Advisory Design Panel meeting of July 8, 2014 relating to the proposed work.
- b) Reduced copies of the plans of the proposed work.

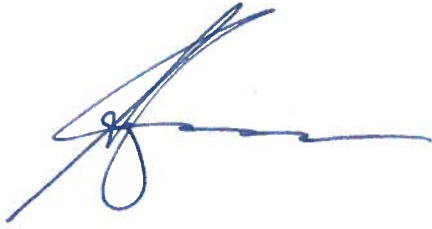
OPTIONS:

1. That it be recommended to Council that the proposed plans to construct a den/solarium by enclosing the existing deck on the north side of the dwelling located at 1640 York Place be approved as to architectural design.
2. That the application be denied.

RECOMMENDATION(S):

THAT it be recommended to Council that the proposed plans to construct a den/solarium by enclosing the existing deck on the north side of the dwelling located at 1640 York Place be approved as to architectural design.

Respectfully Submitted,



Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.



Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-199

MEMORANDUM

TO: Committee of the Whole

FROM: Director of Building and Planning

DATE: July 9, 2014

RE: Development Permit Application to Amend Development Permit 81-4
2119 Oak Bay Avenue
Lot 1 to 32, Section 23 and 69, Victoria District, Strata Plan 1308,
Together with an interest in the common property in proportion to
the unit entitlement of the strata lot as shown on form 1
RM-4 Multiple Dwelling Use- 4 storey

BACKGROUND:

The owners have made an application to repair the roofing membrane on the parkade; this will require them to remove three quarters of the existing landscaping and redevelop the landscaping at the front west and rear sides of 2119 Oak Bay Avenue.

Discussion:

The Official Community Plan designates all Multiple Residential and Commercial zones as Development Permit areas and requires Council approval as to form and character. This property is zoned RM-4 which is in a Development Permit Area as identified in the Official Community Plan. This property has a Development Permit # 81-4, which specifies that the landscaping must be in conformance with the submitted landscaping plans dated September 28, 1981. The modification proposed involves new front, side and rear landscaping in accordance with the attached plans date stamped July 4, 2014.

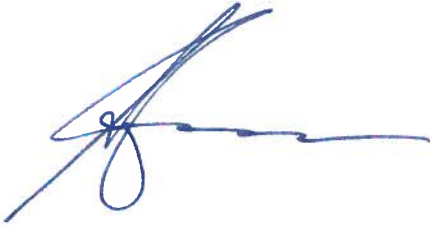
OPTIONS:

1. That a resolution authorizing the issuance of a Development Permit to amend the Development Permit # 81-4, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.
2. That it be recommended to Council that the application to amend the Development Permit # 81-4 be denied.

RECOMMENDATION):

That a resolution authorizing the issuance of a Development Permit to amend the Development Permit # 81-4, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.

Respectfully Submitted,



Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.



Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-200

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 9, 2014
RE: Development Variance Permit Application-556 Newport Ave.
Lot 9, Block 5, Section 73, Victoria District, Plan 992

RS-2, One Family Residential

BACKGROUND:

In November 2010 the owner obtained Development Variance Permit #51-2010 to add to the dwelling and alter the garage. In March 2011 Development Variance Permit #10-2011 was approved by Council which modified the original design adding floor space and a dormer. The owner never proceeded with the construction of the addition and change to the roof design of the accessory garage, as such; the Development Variance Permit has expired.

Bruce Wilkin Design acting for the owner has re-applied for the variances approved in March 2011 involving the removal of an existing addition and construction of a new addition in accordance with the attached plans. With this development they would also like to add a new roof to the existing garage creating a second floor for storage. The design of the new house addition exceeds the roof height and the garage addition exceeds roof, building and occupiable heights and setbacks of the Zoning Bylaw. Consequently variances are required from the Zoning Bylaw to accommodate this new house addition and second floor expansion to the garage.

Discussion:

The applicant is requesting a Development Variance Permit granting relief from the following section(s) of the Zoning Bylaw:

<u>Zoning Bylaw Section(s)</u>	<u>Required</u>	<u>Requested</u>	<u>Variance</u>
6.2.4.(3)(c) + Schedule 'B' Maximum Roof Height of the principal building	9.14m (30 ft)	9.7 m (31.8 ft)	0.56 m (1.84 ft)
<u>Accessory Building</u>			
6.2.4.(2)(c) Interior side lot line setback for accessory building	1.52m (5 ft)	0.35 m (1.15 ft)	1.17m (3.84 ft)

6.2.4 (3)(a) Maximum building height for accessory building	3.0m (9.8ft)	4.95m (16.24 ft)	1.95m (6.4 ft)
6.2.4 (3)(b) Maximum occupiable height for accessory building	0.25 m (10 inches)	2.49m (8.17 ft)	2.24m (7.4 ft)
6.2.4.(3)(c) Maximum roof height for accessory building	4.6 m (15 ft)	6.32m (20.7 ft)	1.72m (5.64 ft)
6.2.4.(7) Clear space required between buildings	3.0m (9.8 ft)	2.86m (9.37 ft)	0.14m (5.5inch)

**Imperial measurements are approximate and for convenience only.*

Planning Comment:

With the garage quite close to the south property line and the substantial increases requested in all the height limitations for accessory buildings it is difficult to support the garage variances when they are not necessary, as compliance to the Zoning Bylaw exists and can be accommodated.

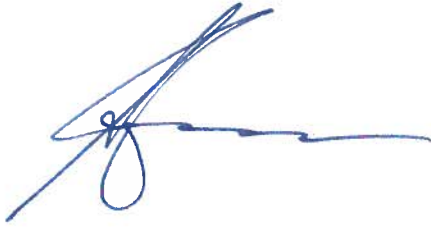
OPTIONS:

1. That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.
2. That the applicant be requested to delete the garage modifications from the plans, eliminating the garage variances and further that a resolution authorizing the issuance of a development variance permit for the principle building only, as outlined in the July 9, 2014 report of the director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.
3. That it be recommended to Council that the application be denied.

RECOMMENDATION(S):

That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Roy Thomassen', written over a horizontal line.

Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.

A handwritten signature in blue ink, appearing to read 'Lorraine Hilton', written over a horizontal line.

Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-201

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 9, 2014
RE: Development Variance Permit Application– 2116 McLaren Avenue
Lot 4, Section 22, Victoria District, Plan 1656
RS-5, One Family Residential

BACKGROUND:

The owner has submitted an application to replace the single family dwelling at 2116 McLaren Avenue with a new one storey dwelling in accordance with the attached plans. In order to proceed further the proposed rear yard paved surface and contextual front yard setback would be non-conforming; consequently, variances are required from the Zoning Bylaw to accommodate this proposal.

DISCUSSION:

The applicants are requesting relief from the following section(s) of Zoning Bylaw #3531:

<u>Zoning By-law Section(s)</u>	<u>Required/Permitted</u>	<u>Requested</u>	<u>Variance</u>
4.15.1 Maximum paved surface (RearYard)	25% (28.2 m ²) (303.5 ft ²)	(32.3 %) (36.4 m ²) (392.1 ft ²)	7.3 % (8.2 m ²) (88.3 ft ²)
6.5.4.(10) Minimum front lot line contextual setback	8.5 m (27.9 ft)	7.62m (25 ft)	0.88m (2.9 ft)

** Imperial measurements are approximate and for convenience only.*

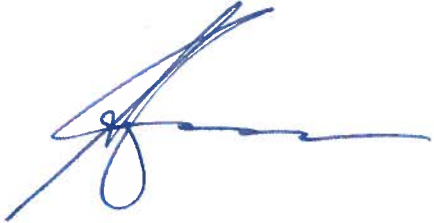
OPTIONS:

1. That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.
2. That it be recommended to Council that the application be denied.

RECOMMENDATION:

That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Roy Thomassen', written over a horizontal line.

Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.

A handwritten signature in blue ink, appearing to read 'Lorraine Hilton', written over a horizontal line.

Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer

2014-202

MEMORANDUM

TO: Committee of the Whole
FROM: Director of Building and Planning
DATE: July 9, 2014
RE: Development Variance Permit Application– 2465 Florence Street
Lot 6, Block 2, Section 28, Victoria District, Plan 915
RS-5, One Family Residential

BACKGROUND:

The owner would like to construct a top floor addition to add one bedroom and bathroom to accommodate a growing family. The proposal involves adding dormers on the north and south sides of the existing dwelling. The building height of the walls for the proposed shed dormers, the second storey setback and gross floor area above .8 meters below grade would be non-conforming; consequently variances are required from the Zoning Bylaw to accommodate this proposal.

DISCUSSION:

The applicants are requesting relief from the following section(s) of Zoning Bylaw #3531:

<u>Zoning By-law Section(s)</u>	<u>Required/Permitted</u>	<u>Requested</u>	<u>Variance</u>
6.5.4.(3)(a) Maximum building height(north and south)	6.83m (22.4 ft)	7.09 m (23.3 ft)	0.26m (0.85 ft)
6.5.4.(6)(a) Maximum gross floor area above .8meters below grade	240 m ² (2583 ft ²)	334.8m ² (3604 ft ²)	94.8m ² (1020 ft ²)
6.5.4.(11) Minimum second storey side lot line setback	3.0 m (9.8 ft)	2.77m (9.08 ft)	0.23m (0.75 ft)

** Imperial measurements are approximate and for convenience only.*

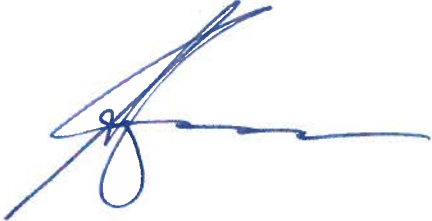
OPTIONS:

1. That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9,2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.
2. That it be recommended to Council that the application be denied.

RECOMMENDATION:

That a resolution authorizing the issuance of a development variance permit, as outlined in the July 9, 2014 report of the Director of Building and Planning, be prepared and brought forward to a meeting of Council for consideration.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'Roy Thomassen', written over a horizontal line.

Roy Thomassen
Director of Building and Planning

I concur with the recommendation of the Director of Building and Planning.

A handwritten signature in blue ink, appearing to read 'Lorraine Hilton', written over a horizontal line.

Lorraine Hilton
Municipal Clerk/Deputy Chief Administrative Officer