

Group 2

Architecture
Engineering
Interior Design

Project No: 04088

February 9, 2005

H.W. PICKUP REPLACEMENT SCHOOL WILD ROSE SCHOOL DIVISION #66

DESIGN COMMITTEE MEETING #4

Date: Tuesday, February 8, 2005
Time: 10:00 am
Location: HW Pickup Jr. High School
Distribution: All present and as noted

Name	Representing	Email/Phone/Home or Cell/Fax
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ITEM	DISCUSSION	ACTION BY
4.0	<p>REVIEW MINUTES OF MEETING #3</p> <ul style="list-style-type: none"> Accepted as issued Cody had negotiated with the Catholic School Board regarding the number of CTS labs which will have a total of 3 CTS plus possibly 1 more by using the public kitchen and Banquet Hall. 	WRSD
4.1	<p>The Size of Space Needed</p> <ul style="list-style-type: none"> Cody had discussed with the Catholic School Board the CTS space needed for both schools. Construction/Fabrication CTS lab needs to have a <u>larger sized clean room</u> for teaching. The current usage of 30m² for 25 students is not enough. Construction/Fabrication: CTS needs to design separate air exhaust system for dirty area and clean room. The school would also like to have 1 bay garage door (8'x12') for loading equipment and a direct driveway to the street. Food CTS lab may use public commercial kitchen and Banquet Hall for teaching and student eating area. The school needs to select personnel for supervising. 	INFO G2A/Design Committee WRSD

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ITEM	DISCUSSION	ACTION BY
	<ul style="list-style-type: none"> Cody will be continually discussing with the Town the capital operation issue, scheduling, and who will be responsible for operating the kitchen and Banquet Hall area. 	WRSD
4.2	The Location of Internal Space	
	<ul style="list-style-type: none"> Relocate gym in between 2 schools. 1/3 of the space is donated from the Catholic School and 2/3 of the space is from the Public School. 	INFO
	<ul style="list-style-type: none"> Cody will continue discussions with the Steering Committee regarding the size of gym space, e.g. expansion of 2 stations to 3 gym stations and space for usage by the 2 schools. 	WRSD/G2A
	<ul style="list-style-type: none"> Catholic school will use St. Anthony's school gym for their sports teams. 	
	<ul style="list-style-type: none"> The Public School normally uses the gym space during school hours and would like to use the field house for after school hour activity. 	INFO
	<ul style="list-style-type: none"> Cody will continue to discuss with the Town regarding the flooring finish in the field house, eg. Rubber or roll-up tuff finish as well as the operational schedule activity usage of the field house (eg. Soccer Association would like to use the field house during the time period of 6:00 p.m. on) It is possible to let the school use the field house until 5:00 pm. 	WRSD
	<ul style="list-style-type: none"> Cody suggested that the school designs the school physical curriculum activity which will impact usage of the field house. 	INFO
	<ul style="list-style-type: none"> The public gathering in the common area will be used by the Public School for student gathering. It is also important to design a space for a food tuck shop to serve the students. 	WRSD/G2A/ Design Committee
	<ul style="list-style-type: none"> Cody mentioned that the Catholic School will use their own chapel space for their student gathering. 	INFO
4.3	Location of HW Pickup Replacement School	
	<ul style="list-style-type: none"> Overall speaking, the HW Replacement School is on the north side of the complex. This is favorable to the design committee because it is good for traffic flow. 	INFO
	<ul style="list-style-type: none"> Design Committee suggested making the distance in between the 2 schools a little larger. For example, making the current rotating angle to become 90°. The right angle will be in between the 2 schools to place the gym in between, but we need to consider the snow melting issue. G2A needs to discuss with the two other architectural groups. 	WRSD/G2A/ Design Committee
4.4	Space Program Review	
4.5	Updated Program Attached	INFO
4.6	Review Block Schematic Floor Plan	
	<ul style="list-style-type: none"> The Public School would like to share the usage of the Music/Art Room with the Catholic School. The Design Committee suggested that the Architect design the Art/Music room adjacent the gym, but needs to consider the sound proofing issue. 	INFO/G2A

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ITEM	DISCUSSION	ACTION BY
	<ul style="list-style-type: none"> Design a small internal gathering area/lobby for the Public School. This space can be designed close to Admin. Design staff room and work room together. It can be separate to Admin office area. The North side school design option is considering school future growth. The school can expand the classrooms on the north side of the school perimeter. 	G2A G2A G2A
4.7	<p>STEERING COMMITTEE ISSUE</p> <p>Banquet Hall:</p> <ul style="list-style-type: none"> How many days will the Town use the Banquet Hall for public activities? Who will be the main party to operate the Public Commercial Kitchen? How will capital revenue be generated? How will we solve the space allocation/utilization issue? <p>Field House:</p> <ul style="list-style-type: none"> Hour (schedule) availability for school access and usage. The issue of flooring finish. <p>Library:</p> <ul style="list-style-type: none"> Space of allocation for 3 party's usage. Computer station design for public/school usage. <p>Meeting Rooms:</p> <ul style="list-style-type: none"> The scheduling of Town usage in the space. The availability of access of usage for the Public School. 	WRSD
4.8	<p>PROPOSED FUTURE MEETINGS</p> <ul style="list-style-type: none"> Thursday, February 17, 2005 (Cancel) Thursday, February 24, 2005 	INFO

Prepared by:

Group 2 Architecture Engineering Interior Design

M.H Cotton Chou, MBA. F.CIM. MAAA.
MCC:sa



Estimate for Confluence Campus at Rocky Mountain House

This is an estimate responding to the request by Alberta Education, and Alberta Restructuring and Government Efficiency (RGE), to provide SuperNet service for the Confluence Campus in Rocky Mountain House, Alberta.

ASSUMPTIONS

The Confluence Campus is scheduled to complete construction in Spring 2005, with classes to commence in September 2005. Service is required to be in place for the start of the new school year in September 2005.

The campus is located on 50th Street, between 54th and 54th Avenue, in Rocky Mountain House, Alberta.

The campus houses three schools:

- West Central High School – Wild Rose School Division #66
- St Dominic Catholic High School – Red Deer Catholic Regional Division #39
- Red Deer College – Rocky Campus

Alberta SuperNet has been in service in the Town of Rocky Mountain House since 2002, and Axia SuperNet Ltd constructed this segment. Complete engineering documentation is available, and the region is well known to Axia. In addition, a site visit was performed for this estimate.

Axia made numerous enquiries, and investigated several options, to provide cost-effective service with suitable bandwidth to the new campus:

- Utilizing existing fibre from other service providers in the region
- New fibre construction from the existing SuperNet Point of Presence (PoP) in Rocky Mountain House
- Wireless local access

Spare fibre in Rocky Mountain House is currently a scarce resource. Alberta SuperNet uses fibre from Monarch Cablesystems, who recently leased 12 available strands of fibre to Shaw Communications. Existing customers of Alberta SuperNet, existing customers of Monarch, and future growth of Monarch are using the remaining strands. Neither Monarch nor Shaw is in a position to lease the existing fibre to SuperNet.

The existing SuperNet PoP in Rocky Mountain House is at 4712 49th Avenue. To construct new fibre through the town from the PoP to the campus would cost over \$100,000.

Wireless local access of suitable bandwidth to serve all 3 schools would require civil and RF engineering, community approvals and tower construction. The time to go through this process may miss the start of the school year, and the total costs may exceed that of new construction from the PoP.

However, Axia has found a solution that provides all the bandwidth of fibre, and meets the opening schedules of the schools, at a substantially lower cost.

Axia understands that the Will Sinclair School at 5207 48 Street will be relocated to the Confluence Campus after classes end in June 2005, and be renamed the West Central High School when it reopens in August 2005. Axia understands that the old school location will be closed, and even if occupied by another tenant, will not require SuperNet service.

Axia therefore proposes to re-use the existing 4 strands currently serving Will Sinclair School from the PoP, and splice them to serve the Confluence Campus. This would require half the construction and cost of construction from the PoP to the campus.

There would be no limitations on bandwidth, or need to share the same SuperNet Edge Device (SED), due to the use of 4 strands of fibre to serve the 3 schools. The capacity of fibre is only constrained by the electronics at each end. Axia would install another Cisco 3550 to serve as an aggregation switch within the campus, from which each school would obtain SuperNet service with its own full-capacity SED. This technique is used successfully around the network to provide separate SuperNet service to several tenants in the same building, including the provincial building in Rocky Mountain House.

This would be a phased process:

- Spring 2005:
 - Continue to provide SuperNet service to the Will Sinclair School until closing
 - Construct new fibre from the splice point outside the Will Sinclair location, at 48 Street and 52 Avenue, to the Confluence Campus
 - Obtain requirements for SuperNet service by each of the 3 schools at Confluence Campus
 - Support the construction team at Confluence Campus to complete internal preparations of the campus for SuperNet, including in-building cabling and telecomm room preparations
 - Install all electronics equipment needed for the 3 schools
- July or August 2005, after Will Sinclair School closes:
 - Splice the new fibre serving Confluence Campus from the splice point outside the Will Sinclair location, cutting SuperNet service to the Will Sinclair School
 - Complete testing and commissioning of the SuperNet service to the 3 schools

Axia has provided two columns for this estimate, depending on the type of in-building wiring used by the campus construction team. While in-building wiring is a customer responsibility, the choice of wiring would dictate the electronics equipment to be provided by Axia. Ethernet is limited to about 100m over copper cables, so where fibre is used to distribute SuperNet service between the switch and the SED for each school, media converters are required at each end.

Axia looks forward to working further with the 3 schools and the construction team to determine all SuperNet service requirements, the locations of the common aggregation switch and the SED for each school, in-building wiring arrangements, specific electronics requirements and the detailed implementation schedule. As a result, the labour cost for the electronics portion cannot yet be estimated.

Should this estimate be acceptable, Axia would like to proceed with engineering the project. This would include working with the 3 schools and the construction team to determine the exact requirements and schedule, and result in a revised estimate including all hardware and labour. Axia requests a purchase order for \$5000 to cover the estimated cost of performing this next phase, on a time and materials basis.

ESTIMATE

Item	Price (\$CDN)	
	Copper in building	Fibre in building
Electronics <ul style="list-style-type: none"> • Aggregation Switch and Interface Cards • Media Converters required for fibre in building • Labour not included 	\$ 5,965	\$ 11,406
Outside Plant (OSP)		
<ul style="list-style-type: none"> • 575 metres of urban construction • Splices and splice testing • Engineering and permits 	\$ 46,418	\$46,418
Facilities		
<ul style="list-style-type: none"> • 3 CPE cabinets • Installation and commissioning 	\$ 2,250	\$ 2,250
Total	\$54,633	\$60,074

TERMS & CONDITIONS

1. All estimated costs and prices are in Canadian dollars.
2. This is an estimate, not a fixed-price quotation. No time or material buffers have been included.
3. Labour has not been estimated for electronics work.
4. All actual engineering, construction, installation, commissioning and related expense is to be paid by GOA-RGE or its appointed agent.
5. This estimate includes travel time for OSP and Facilities field personnel to and from the site.
6. GOA-RGE or its appointed agent is responsible to ensure access to customer site by Axia and its contractors is timely and professional.
7. Business hours are defined as 08:00 – 17:00 Monday through Friday, with the exception of statutory holidays.
8. Construction is subject to weather conditions and timely permitting.

Please feel free to contact me with any questions regarding this estimate.

Regards,

AXIA SUPERNET LTD.

April Kerr