

RAVALLI COUNTY DETENTION CENTER SECURITY ELECTRONICS ASSESSMENT

July 24, 2018





July 24, 2018

Erik Hoover, Director
Office of Emergency Management
Ravalli County Sheriff's Office
Ravalli County
Hamilton, MT 59840

Email: ehoover@rc.mt.gov

Re: Ravalli County Detention Center
Security Electronics Assessment
Hamilton, MT #1759

Dear Erik,

Please find our evaluation of the existing Detention Center Electronic & Controls and Monitoring System.

The report identifies components of the system in addition to establishing a Scope of Work for the following items included in the total project cost.

- Security Electronics
- Work Stations by Alster Communications
- Demo & new flooring (rubber tile)
- Demo lighting and new lighting (control room & perimeter secure corridor)
- New paint

See the attached estimate following.

In addition, see also the control room area floor plan and conceptual work notes to define total scope of the project.

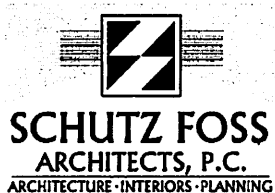
Please review the report and then I suggest we have a "Go-to-Meeting" call to discuss any questions or further progress and representative timelines. Please let me know when you can schedule our follow-up call and we will initiate such.

Sincerely,

Schutz Foss Architects, P.C.

by

Allen Rapacz, President



Probable Cost Estimate -Schematic

**Ravalli County Detention Center
Security Electronics Assessment #1759
July 24, 2018**

Security Control System		\$421,338.00
Two Watson Synergy Pro Lift Consoles w/ 42' screens		\$31,000.00
Demo Flooring & Existing Cabinet		\$1,500.00
Demo Ceiling tile (grid to remain) & new ceiling tile	1049 SF x \$3.00	
@ control room/and perimeter corridor toilet		\$3,147.00
Paint inside control room & toilet	1192 SF	\$1,800.00
window frames/rails	700 SF	
Rubber tile flooring (ActivLok)		\$4,100.00
New lighting (dimmable LED) control & corridor		<u>\$6,900.00</u>
	Subtotal:	\$469,785.00
	General Conditions 8%	\$37,582.00
	Overhead/Profit 10%	\$46,978.00
	Contingency 8%	<u>\$37,582.00</u>
	Subtotal:	\$591,927.00
	A/E Compensation	<u>\$67,890.00</u>
	Total Project Cost:	\$659,817.00

The purpose of this assessment is to evaluate the existing detention center security electronics control and monitoring system. The facility was constructed 1993/94 and is a two-story building of approximately 45,000sf. Ravalli County is located in far western part of Montana about 50 miles south of Missoula with a population of approximately 45,000. According to facility staff the average daily incarceration is 55 – 62 for a facility designed with a capacity of 80 beds.

EXECUTIVE SUMMARY

The security electronics control and monitoring system consists of door control and status, intercom, lighting and power controls and video surveillance cameras and recording. The operator interface is from two hardwired panels in the Control Room. From these hardwired panels, control and monitoring occurs via a Rauland SecurePlex System. Secureplex consists of 25V intercom audio boards which derives its two-way communication from an intercom amplifier via relays. Door control switching logic is from microprocessor SecurePlex boards that triggers the doors for unlocking via relays and includes input logic for door status which illuminates LED indicator lights on the control panels.

Rauland no longer manufacture's or supports this equipment. The intercom amplifier has failed and replaced with a similar component manufactured by Techworks, Inc. Techworks identified this as an opportunity to provide replacement components manufactured by Rauland. However, the main audio and door control boards are the main components with no replacements available from any manufacturer.

Since there are no replacement manufacturers of this equipment there is the possibility that failure could leave the detention center without door control or audio communications.

The camera system is a collection of various manufacturers and is an analog camera system with two 32 camera digital video recording (DVR) units which also provides outputs to display the cameras on segmented views to three monitors in Control. Analog camera systems are nearly obsolete as IP-based digital camera systems offer greatly flexibility, more robust controls along with easier user interface for viewing remotely.

There are some hard-wired controls that can be integrated in to a new touch screen control system, inmate phone on/off control, visitation on/off control and the door control and intercom for the Intake addition. This puts all control in monitoring in one location.

The total opinion of probable cost is **\$421,338** installed in 2018 dollars. Further details can be found in the report.