

AGENDA ITEM #13  
March 24, 2009

**Worksession**

**MEMORANDUM**

March 20, 2009

TO: County Council

FROM: Minna K. Davidson, <sup>MKD</sup> Legislative Analyst

SUBJECT: FY09-14 Capital Improvements Program amendments – Fire and Rescue Service

**Public Safety Committee Recommendations**

The Public Safety Committee reviewed the Executive's recommendations for four amendments to the FY09-14 CIP for the Fire and Rescue Service on March 12, and unanimously recommends the following:

- **Fire Station Alerting System Upgrades (new project):** Approve as recommended by the Executive.
- **East Germantown Fire Station:** Approve the reduction of \$800,000 in the total project cost and appropriation as recommended by the Executive.
- **Travilah Fire Station:** Retain the approved PDF, but shift \$850,000 from FY10 to FY11 as recommended by the Executive for fiscal capacity.
- **Wheaton Rescue Squad Relocation:** Defer a recommendation pending updated cost estimates.

**New Project – Fire Station Alerting System Upgrades**

*New Project: Fire Station Alerting System Upgrades, No. 4545100 (in \$000s)*

	Total	Thru FY08	6 Years	FY09	FY10	FY11	FY12	FY13	FY14
CE Rec.	3,840	0	3,840		500	500	500	2,340	0

*Recommended funding source: \$3,840 in G.O. Bonds  
CE recommended PDF on © 1.*

**PS COMMITTEE RECOMMENDATION: Approve as recommended by the Executive.**

The proposed project would modernize the fire station alerting system at 32 existing stations. The project would be phased over four years and would address the systems that are most in need of replacement first. (A prioritized list is attached on © 2.) Funds for alerting systems for new and replacement stations are included in the CIP projects for those stations.<sup>1</sup>

An alerting system sounds audible tones and, through data transmission, produces a printout with the address, call type, and other relevant information when an incident is dispatched to a station. Although the current Motorola System Control and Alerting Device (MOSCAD) alerting system was purchased in FY03<sup>2</sup> and implemented in FY04, the Montgomery County Fire and Rescue Service (MCFRS) has determined that system components cannot be purchased for new stations, and replacement parts may not be available for existing stations. A backup alerting system is available through existing handheld pagers, but it is not reliable as a long term solution. The new West Germantown station will receive alerts by pager until a new permanent system is obtained.

According to MCFRS and the Department of Technology Services (DTS), the requested permanent solution, a system from Westnet, Inc., is the most advanced turnkey fire station alerting system available. The system is functioning in Prince William County (which has the same CAD system as Montgomery County uses) and will provide regional interoperability with Arlington, Fairfax, Prince William, Stafford, Loudoun, and Prince Georges County as well. MCFRS anticipates bridging Prince William’s contract to procure the new system, and the cost estimate in the CIP project is based on Prince William’s costs.

**Council staff comments to the Committee:** Council staff is concerned that the need for a new fire station alerting system was not raised as an issue during previous joint Public Safety and Management and Fiscal Policy Committee reviews of the Public Safety Communications System (PSCS).

The current MOSCAD system was funded through a supplemental appropriation in FY03<sup>2</sup> (funds were originally requested in FY02, but were not used and reverted to fund balance) outside of the main procurement for the PSCS, and after Executive Branch staff determined that

<sup>1</sup> New stations: East and West Germantown, Travilah, Clarksburg. Replacement stations: Takoma Park and Wheaton Rescue Squad

<sup>2</sup> During the Committee worksession, MCFRS staff clarified that elements of the system were phased in beginning in 1999.

the then non-standardized station alerting systems were in varying states of repair and could not uniformly be supported. Council staff is concerned that the station alerting system again seems to be outside of the main planning for the PSCS, and the need for a replacement is again arising on an emergency basis.

The Directors of MCFRS and the DTS have provided responses to several Council staff questions touching on these issues on © 3-4. Council staff suggested that the Committee discuss them with Executive staff before developing a recommendation on the station alerting project for the Council.

**Council staff recommendation to the Committee:** Approve this project as recommended by the Executive. Request that the Executive include fire station alerting systems explicitly in all further Public Safety Communications System planning.

**Public Safety Committee discussion:** Committee members noted that the County is planning to purchase a new computer aided dispatch (CAD) system, and asked whether it is appropriate to purchase a new station alerting system before the County knows which CAD system will be purchased. They were concerned that while the proposed new station alerting system would interface with the current CAD, it is not clear how or whether it would interface with a new CAD.

The Fire Chief said that because replacement parts for the current station alerting system are no longer being made, the County must begin to replace the system now as a matter of public safety so that the County can continue to dispatch emergency responses from stations. The immediate need is for the new alerting system to interface with the existing CAD system.

The proposed new station alerting system will interface with several of the newer CAD systems, and Executive staff will include station alerting system interface needs in their planning for the new CAD. They do not expect that purchasing a new station alerting system now will limit the options for new CAD systems in the future. MCFRS staff have worked closely with DTS staff to ensure that any system purchased at this time will be compatible with the long range public safety communications plan and with a new CAD that will support regional interoperability goals. DTS staff estimated that the cost of a new CAD system will range from \$12-\$15 million to \$40-\$45 million, depending upon the modules that are incorporated in the system. MCFRS staff estimated that a new CAD system would process calls within 30-90 seconds, well under the NFPA standard of 120 seconds, and a significant improvement over the current processing time of 2-3 minutes.

Council staff asked why the new station alerting system, estimated at \$3.8 million, would cost so much more than the MOSCAD system which was funded with an FY03 supplemental appropriation of about \$600,000. MCFRS staff said that the MOSCAD system was actually phased in over a period of four years beginning in 1999. It was separate from the Public Safety 2000 project and arose because MCFRS realized that the existing alerting system at the time was failing. The MOSCAD installation only replaced the computer components that operate station alerting.

The new station alerting system would replace all of the elements of the system including the computers, wiring, amplifiers, and would include electronic displays. It would upgrade MCFRS to the current standards for station alerting. Because it is expensive, MCFRS proposed phasing in the system through a four-year program, rather than making individual funding requests from year to year for each group of stations to be upgraded.

Committee members were concerned that this issue had not been brought to the Council’s attention earlier. For the future, they asked that MCFRS inform the Committee promptly when major problems are identified, even if MCFRS will need additional time to develop solutions.

**Changes to Existing Projects**

***East Germantown Fire Station, No. 450101, PDF 15-7 (in \$000s)***

	Total	Thru FY08	6 Years	FY09	FY10	FY11	FY12	FY13	FY14
Approved	17,062	6,014	11,048	8,832	2,216	0	0	0	0
CE Rec.	16,262	6,014	10,248	8,832	1,416	0	0	0	0
Difference	-800	0	-800	0	-800				

*Recommended funding sources: \$15,556 in G.O. Bonds, \$706 in CFTD current revenue  
CE Recommended PDF on © 7. Approved PDF on © 8.*

**PS COMMITTEE RECOMMENDATION: Approve a reduction of \$800,000 in expenditures and appropriation for this project as recommended by the Executive.**

The Executive recommends a reduction of \$800,000 in expenditures and appropriation for this project because the actual construction bid was lower than the amount budgeted. Construction costs were budgeted at \$7.6 million, but the bid came in at \$6.56 million, or \$1.04 million below budget. The construction contractor is currently behind schedule, and the Executive recommends reducing the project cost by approximately 80% of the difference to leave flexibility in case issues arise in conjunction with the construction delay.

Although construction completion was originally expected to be earlier, as of the fall CIP update in November, construction completion was anticipated by winter 2009/2010. Council staff suggested that the Committee ask about the reasons for the delay, and what is being done to address it.

**Council staff recommendation to the Committee:** Approve as recommended by the Executive.

**Public Safety Committee discussion:** DGS staff clarified that the construction completion estimate is still January 2010, and that station is expected to open in March 2010. By contract, the construction contractor was to have completed the project in November 2009. DGS is working with the contractor to try to improve the schedule. The contract includes liquidated damages for each day the contractor is late, and the County intends to charge the contractor for them. In response to a Committee question, DGS staff said that the Executive did not

recommend reducing the project cost by the full \$1 million because the extended time for the project will result in increased staff and architect costs.

The Committee Chair noted that the grand opening of the West Germantown station will be on March 13. The Fire Chief said that the station was completed on schedule, began operations on March 1, and is already very busy.

**Travilah Fire Station, No. 450504, PDF 15-17 (in \$000s)**

	Total	Thru FY08	6 Years	FY09	FY10	FY11	FY12	FY13	FY14
Approved	5,889	2,364	3,525	2,025	1,500	0	0	0	0
CE Rec.	5,889	2,364	3,525	2,025	650	850	0	0	0
Difference	0	0	0	0	-850	850	0	0	0

*Recommended funding sources: \$5,183 in G.O. Bonds, \$706 in CFTD current revenue  
CE Recommended PDF on © 10. PS Committee’s recommended changes to approved PDF on © 9.*

**PS COMMITTEE RECOMMENDATION: Retain the approved PDF, but shift \$850,000 from FY10 to FY11 as recommended by the Executive for fiscal capacity.** (The approved PDF marked to show the Executive’s recommended funding shift is attached on © 9.)

This project provides for the construction of a new fire-rescue station at 9710 Great Seneca Highway and the purchase of associated apparatus – an EMS unit and an engine.

Originally, the project had been recommended for construction in conjunction with the renovation of the PSTA. The station was to be sited on the west side of the existing PSTA garage and living quarters were to be constructed above the station’s two bays and one of the bays in the PSTA garage. The project was designed and permitted in this configuration.

Last year, the Executive proposed relocating the PSTA to another site and changing the Travilah station to a stand-alone project on the current site as part of his comprehensive Property Use/Smart Growth Initiative. For the Travilah Fire Station PDF, the major change was to remove the language from the previous PDF that described the station as connected to the PSTA academic building, and cross-referenced it to the PSTA project. The Council ultimately approved the PDF as recommended by the Executive. The Public Safety Committee intended to revisit the Travilah Fire Station during further review of the public safety elements of the Property Use/Smart Growth Initiative.

**PDF changes:** The Executive’s recommended CIP amendment would specify that a three bay stand alone station will be built by adding the following new language (underlined) to the description:

This project provides for the construction of a new fire-rescue station at 9710 Great Seneca Highway and the purchase of associated apparatus. Fire/Rescue apparatus to be purchased for this station includes an EMS unit and an engine. The configuration of the

fire station has been changed from a 2-bay fire station to a 3-bay fire station to accommodate expanded needs. This project's scope and schedule changed because the station was planned to be connected to the Public Safety Training Academy, but due to the Academy's relocation for the Smart Growth Initiative, the station will now be a stand alone facility.

In the project justification, it also adds the completion of the Johns Hopkins University Belward Campus and Crown Village Community to the factors expected to increase the volume of fire-rescue incidents.

**Costs:** The recommended PDF retains the same \$5.889 million total project cost as in the approved PDF. However, the Fiscal note indicates that the project provides only for the design phase and that final construction costs will be determined during the design development stage. The total project cost is estimated at \$12 to \$15 million. The project would remain fully appropriated at \$5.889 million, with \$323,000 expended and an unencumbered balance of \$5.566 million.

**Proposed new station:** The proposed station would be sited on the southeast corner of the current PSTA site. An aerial view of the proposed location is attached on © 11. Because of site constraints, the station would be limited to three bays, and would have to be two stories instead of MCFRS' preferred one story design. The station's living areas and offices would be built over storage, bunk rooms, and locker rooms on the first floor. Conceptual drawings from the Program of Requirements show the potential site plan (© 12-13), building layout (© 14-15), and elevations (© 16-17).

The station would have two egress points. One would go to the east via Great Seneca Highway. The other would go to the west via an egress drive across Pepco property to the intersection of Darnestown and Travilah Roads. An easement from Pepco will be needed for the egress road to the west. A preliminary easement agreement has been prepared by Pepco and is under review by the County Attorney.

**Issue - Future of the PSTA:** As part of the Property Use/Smart Growth Initiative, the Executive is currently proposing moving the PSTA to the Webb Tract. However, the Executive has not yet provided many of the details about his proposal, and the Council has not taken any action to formally approve or disapprove it. *Considering that a final decision has not been made about relocating the PSTA, it may be premature to commit to building a stand alone Travilah Fire Station.*

In response to Council staff's question about what would happen if the PSTA does not move, MCFRS provided the following response:

**Question:** If the PSTA does not move, would a stand-alone station at the proposed location interfere with the renovation of the PSTA or redesign of the training academy on the current site?

**Response:** If the PSTA does not move then construction would resume on the currently designed and permitted, two story, two bay facility adjacent to the existing MCFRS training bays. An egress drive across the PEPCO substation would still be needed. Because this location does not allow for the addition of a third apparatus bay, one of the existing training bays would be used as a third apparatus bay for the station.

**Issue – Costs included in the Executive’s recommended PDF:** The Executive’s recommended PDF says that the costs are for design only, but the expenditure schedule only shows costs in FY10 and FY11 for Construction and Site Improvements and Utilities. No funds are actually budgeted for Planning Design and Supervision in those years, and it is not clear how much design of a new stand alone station would cost. In addition, although the expenditure schedule does not accurately reflect the current plans, the full \$5.889 million for the project is appropriated.

**Council staff recommendations to the Committee:**

- Since the Executive would return to the original plan for a two bay station connected to the PSTA if the PSTA is not relocated, do not change the project description to a stand alone three bay station at this time. Reconsider the Travilah Fire Station project after the Council makes a formal decision on the future of the PSTA.
- If the Committee agrees with the first recommendation, retain the approved PDF, but shift \$850,000 from FY10 to FY11 as requested by the Executive for fiscal capacity. Consider including language in the PDF stating that the Executive must not use funds in this project to design a three bay stand alone station.
- If the Committee concurs with the Executive’s proposal to design a three bay stand alone station, request that the Executive revise the PDF to accurately reflect the cost for the design and the expenditure schedule.

**Public Safety Committee discussion:** OMB staff said that the Executive would not proceed with any redesign of the station until decisions are made about what would actually be done with the station. OMB staff did not object to Council staff’s recommendation to return to the generic description of the fire station in the approved PDF.

Committee Chair Andrews said that he supported Council staff’s recommendation because he does not want to pre-judge the issue before the Council acts on the Gaithersburg West master plan and makes a decision about the relocation of the PSTA to another site.

Chief Bowers said that over 3,000 calls are being run in the Travilah area, and a station is needed there now to handle the call load. The station site is the farthest point from each of the four stations (Rockville 3 and 31, and Gaithersburg 8 and 28) that currently run in the Travilah area and the current response times are long. Chief Bowers is considering how to provide resources for a temporary station until a new station is built. Committee Chair Andrews noted that the Council will review the Gaithersburg West master plan this fall, and it should be possible to make a decision about the permanent station shortly after that.

Councilmember Berliner asked whether the Executive is considering fire station sites for co-location with affordable housing. DGS staff said that DGS is considering co-locating affordable housing with the 3<sup>rd</sup> District police station in Silver Spring, and with some libraries. Site selection is currently in progress for the Clarksburg Fire Station, but only for a stand-alone station. As the County moves forward in the future, DGS will consider multiple use of land for all types of projects. Regarding the Travilah site, if the PSTA is relocated, the site would be redeveloped with a mix of residential development.

***Wheaton Rescue Squad Relocation, No. 450505, PDF 15-19 (in \$000s)***

	Total	Thru FY08	6 Years	FY09	FY10	FY11	FY12	FY13	FY14
Approved	11,804	6,629	5,175	3,507	1,668	0	0	0	0
CE Rec.	11,804	6,629	5,175	3,507	168	500	1,000	0	0
Difference	0	0	0	0	-1,500	500	1,000		

*Recommended funding sources: \$11,798 in G.O. Bonds, \$6 in PAYGO*

*CE Recommended PDF on © 17. Approved PDF on © 18.*

**PS COMMITTEE RECOMMENDATION: Defer a recommendation pending updated cost estimates.**

For this project, the Executive recommends a shift of funds for fiscal capacity. A total of \$1.5 million would be deleted from FY10, \$500,000 would be added in FY11, and \$1 million would be added in FY12. Although the approved PDF showed completion in FY10, the November CIP update estimated that completion would be in the fourth quarter of FY11, and MCFRS staff said that completion is now expected in FY12. Station plans and elevations are attached on © 19-21 for reference.

**Issue – new cost estimates:** The Wheaton Volunteer Rescue Squad solicited new cost estimates for this project for budgeting purposes. DGS staff expects that updated cost information will be available within 30 days, and that it will be possible to update the PDF to reflect the new information shortly after all of the estimates are received.

**Council staff recommendation to the Committee:** Request that Executive staff provide an updated PDF before making a Committee recommendation on this project.

**PS Committee discussion:** Executive staff clarified that the Wheaton Volunteer Rescue Squad is seeking four bids for the station. They have received two and expect the other two soon. Executive staff anticipate that it will be possible to update the PDF within the next few weeks.

**This packet contains:**

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**Fire Station Alerting System Upgrades -- No. 451000**

Category  
Subcategory  
Administering Agency  
Planning Area

Public Safety  
Fire/Rescue Service  
Fire/Rescue Service  
Countywide

Date Last Modified  
Required Adequate Public Facility  
Relocation Impact  
Status

January 12, 2009  
No  
None.  
Planning Stage

**EXPENDITURE SCHEDULE (\$000)**

Cost Element	Total	Thru FY08	Rem. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	576	0	0	576	0	75	75	75	351	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	3,264	0	0	3,264	0	425	425	425	1,989	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3,840</b>	<b>0</b>	<b>0</b>	<b>3,840</b>	<b>0</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>2,340</b>	<b>0</b>	<b>0</b>

**FUNDING SCHEDULE (\$000)**

G.O. Bonds	3,840	0	0	3,840	0	500	500	500	2,340	0	0
<b>Total</b>	<b>3,840</b>	<b>0</b>	<b>0</b>	<b>3,840</b>	<b>0</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>2,340</b>	<b>0</b>	<b>0</b>

**OPERATING BUDGET IMPACT (\$000)**

Maintenance				657	0	0	63	94	250	250
<b>Net Impact</b>				<b>657</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>94</b>	<b>250</b>	<b>250</b>

**DESCRIPTION**

This project provides for modernizing the fire station alerting system at 32 existing stations, maintaining the ability to notify fire and rescue stations of emergencies. The alerting system, including audible and data signals, is essential for the notification of an emergency and the dispatch of appropriate response units from the county. The final design and installation will accommodate varying conditions from station to station. Some of the components of the current system are old and cannot be replaced. If a system breaks down, there might not be a reliable method of dispatching fire and rescue apparatus to emergency incidents.

**JUSTIFICATION**

Identified as a need under Section 5 of the MCFRS Master Plan, as adopted by the County Council in October 2005, and detailed in the Station Alerting and Public Address (SA/PA) System for Fire/Rescue Stations, Rev 1, 2006, this project allows for the continuous and seamless functioning of the alerting systems within each fire station. A preliminary survey by DTS of existing conditions at all stations revealed systemwide concerns, including inadequate spare parts inventory and lack of available maintenance support for alerting systems.

APPROPRIATION AND EXPENDITURE DATA	COORDINATION	MAP																											
<table border="1"> <tr> <td>Date First Appropriation</td> <td>FY10</td> <td>(\$000)</td> </tr> <tr> <td>First Cost Estimate</td> <td>FY10</td> <td>3,840</td> </tr> <tr> <td>Current Scope</td> <td></td> <td></td> </tr> <tr> <td>Last FY's Cost Estimate</td> <td></td> <td>0</td> </tr> </table>	Date First Appropriation	FY10	(\$000)	First Cost Estimate	FY10	3,840	Current Scope			Last FY's Cost Estimate		0	<p>Montgomery County Fire and Rescue Service Local Volunteer Fire and Rescue Departments Department of Technology Services Department of Permitting Services CIP project #340901: Public Safety Communications System Upgrade and Mod</p>																
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<table border="1"> <tr> <td>Appropriation Request</td> <td>FY10</td> <td>500</td> </tr> <tr> <td>Supplemental Appropriation Request</td> <td></td> <td>0</td> </tr> <tr> <td>Transfer</td> <td></td> <td>0</td> </tr> <tr> <td>Cumulative Appropriation</td> <td></td> <td>0</td> </tr> <tr> <td>Expenditures / Encumbrances</td> <td></td> <td>0</td> </tr> <tr> <td>Unencumbered Balance</td> <td></td> <td>0</td> </tr> <tr> <td>Partial Closeout Thru</td> <td>FY07</td> <td>0</td> </tr> <tr> <td>New Partial Closeout</td> <td>FY08</td> <td>0</td> </tr> <tr> <td>Total Partial Closeout</td> <td></td> <td>0</td> </tr> </table>	Appropriation Request	FY10	500	Supplemental Appropriation Request		0	Transfer		0	Cumulative Appropriation		0	Expenditures / Encumbrances		0	Unencumbered Balance		0	Partial Closeout Thru	FY07	0	New Partial Closeout	FY08	0	Total Partial Closeout		0		
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Total Partial Closeout		0																											

## Fire Station Alerting System Replacement Schedule

### **Immediate Station Priorities**

Bethesda Station 6  
Kensington Station 25  
Gaithersburg Station 28  
Hillandale Station 24  
Kensington Station 21  
Glen Echo Station 11  
Cabin John Station 30

### **Final order to be determined through a joint DTS/MCFRS review**

Rockville Station 3  
Hillandale Station 12  
Silver Spring Station 19  
Rockville Station 33  
Rockville Station 31  
Cabin John Station 10  
Gaithersburg Station 8  
Sandy Spring Station 40  
Kensington Station 5  
Hyattstown Station 9  
Damascus Station 13  
Upper Montgomery County Station 14  
Silver Spring Station 16  
Germantown Station 29  
Bethesda Station 26  
Rockville Station 23  
Bethesda Station 20  
Burtonsville Station 15  
Chevy Chase Station 7  
Laytonsville Station 17  
Kensington Station 18  
Silver Spring Station 1  
Sandy Spring Station 4  
Bethesda-Chevy Chase Rescue Squad  
Interim Clarksburg Station 35



DEPARTMENT OF TECHNOLOGY SERVICES

Isiah Leggett  
County Executive

E. Steven Emanuel  
Chief Information Officer

MEMORANDUM

March 4, 2009

TO: Minna Davidson  
Legislative Analyst

FROM: Richard Bowers  
Interim Fire Chief  
E. Steven Emanuel  
Chief Information Officer

SUBJECT: MOSCAD CIP Q&A

The members of the Public Safety leadership team in conjunction with DTS are pleased to provide responses to your questions from your email of February 23, 2009.

1. **At Council staff's request, MCFRS staff compiled a list of the PSCS elements used by Fire and Rescue (attached). How will the County assure that the new alerting system will be compatible with the existing elements on the list, and with any new PSCS systems that are purchased in the future?**

The requested Station Alerting solution uses current Technology and is the most advanced turnkey fire station alerting system available. This system is compliant with DTS's overall Strategic Plan.

The proposed system is functioning in Prince William County, which has the same 911 Computer Aided Dispatch (CAD) system that Montgomery County utilizes. All new, industry tested CAD systems have the ability to interface with the proposed Alerting system. In addition to solving the immediate need for alerting at new stations and failing systems, another benefit for this system is the capability to provide regional interoperability with the counties of Arlington, Fairfax, Prince William, Stafford, Loudon, and Prince Georges. This design enables, automatic inter-agency alerting with all border stations, from all adjoining dispatch centers.

2. **How will the Public Safety Communications Plan integrate the replacement of the station alerting system now with plans for the replacement of the overall PSCS in the future?**

Station Alerting provides for a specific function as a part of the Public Safety systems portfolio. Any future replacement systems will integrate with and support the proposed Alerting System. This new system would be included as part of the overall requirements and integration plan for any future solutions.

Office of the CIO

101 Monroe Street, 13th Floor, Rockville, Maryland 20850  
240 777-2900 FAX 240 777-2831

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3. **Are there communication technologies such as WiFi and WiMax that may replace the over-the-air link to these MOSCAD elements at costs lower than the existing ones? Are there plans to explore such an option (as well as other solutions that may use it beyond MOSCAD)?**

The use of WiFi and/or WiMax have not been proven in conjunction with a Station Alerting application. There would be far too many interfaces to construct and both cost and reliability are unknowns. Although the theory is plausible, it has not been demonstrated as a production solution in any Public Safety environment today. Additionally, security of the application, using these wireless solutions would have to be investigated and validated. A major benefit to the proposed alerting system, which would be using the county's FiberNet backbone, would be to communicate with the dispatch center using existing infrastructure, eliminating the incurrence of any significant, new network construction costs. MCFRS and DTS are planning to investigate the possibility of using alternate technologies including WiFi and WiMax as a potential backup communications option.

4. **Are there other systems in public safety departments which may require similar emergency attention? If so, which are they, and what is an approximate timeframe for such requests?**

At the present time, the CAD system has the highest priority, followed closely by the Public Safety radio system. While neither of these are in critical path, both solutions have the potential to require emergency investment. DTS and the Public Safety teams are preparing for a comprehensive evaluation of all systems to identify where modern technology may encompass or replace existing solutions. The completed evaluation will assist the Public Safety agencies in validating or modifying priorities for the long-term plans.

The challenges with the radio system hinge on the termination of the standard maintenance contract in October, 2009. After this date, maintenance programs will not be at the same service levels and replacement hardware for physical failures could be difficult to acquire. For the CAD system, the urgency of replacement will be driven by the timing and specifications for the next generation 9-1-1, and the level of success realized from the current efforts to replace end-of-life public safety servers. In addition, funding reductions for ongoing public safety mobile computers and server replacements would potentially increase the likelihood for the need of future emergency replacement situations.

If we can be of any further assistance to support this important effort, please don't hesitate to ask.

Cc: K. Boucher, ACAO  
W. Ferretti, Deputy Dir., Police 911 ECC  
T. Manger, Chief of Police  
B. Melby, Director, Police 911 ECC  
C. Toregas, Council IT Advisor  
C. Voss, Director, OEMHS

## Fire and Rescue CAD Related IT Systems and Equipment

### 1) Systems



Items	Year Purchased	Expectancy
Computer Aided Dispatch (Altaris CAD)	1999	On-going
Mapping (Altaris View)	1999	On-going
Automated Vehicle Location (Altaris AVL)	1999	On-going
Automated Vehicle Route Recommendation (Altaris AVRR)	1999	On-going
Fire station Alerting (MOSCAD)	1999	End of life
Paging	Late 80s	May be migrating to cell phone paging
Mobile dispatch and messaging (InfoServer, MobileRescue)	1999	On-going
Records Management (Firehouse)	2002	On-going
EMS Protocol (ProQA/Aqua)	1999	On-going
Radios	1999	End of life. Will be replaced as part of re-banding effort
Fire station phone system, including the red phone (POTS line) that direct dials to PSCC	Since the opening of fire station	On-going

2) Infrastructure

- a) Remote CAD PCs
- b) Mobile Data Terminals (Toughbooks)
- [REDACTED]
- d) Pagers
- e) Servers
- f) Local Area Network
- g) Fibernet
- h) 800 MHz
- i) CDMA (Sprint)

3) Future

- a) Electronic Patient Care Reporting
- b) EMS Billing

### East Germantown Fire Station -- No. 450101

Category  
Subcategory  
Administering Agency  
Planning Area

Public Safety  
Fire/Rescue Service  
General Services  
Germantown

Date Last Modified  
Required Adequate Public Facility  
Relocation Impact  
Status

January 12, 2009  
No  
None.  
Under Construction

#### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY08	Rem. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	1,830	794	552	484	343	141	0	0	0	0	0
Land	1,800	1,744	56	0	0	0	0	0	0	0	0
Site Improvements and Utilities	200	35	0	165	149	16	0	0	0	0	0
Construction	10,516	7	2,825	7,684	6,973	711	0	0	0	0	0
Other	1,916	1	0	1,915	1,367	548	0	0	0	0	0
<b>Total</b>	<b>16,262</b>	<b>2,581</b>	<b>3,433</b>	<b>10,248</b>	<b>8,832</b>	<b>1,416</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### FUNDING SCHEDULE (\$000)

Fire Consolidated	706	0	706	0	0	0	0	0	0	0	0
G.O. Bonds	15,556	2,581	2,727	10,248	8,832	1,416	0	0	0	0	0
<b>Total</b>	<b>16,262</b>	<b>2,581</b>	<b>3,433</b>	<b>10,248</b>	<b>8,832</b>	<b>1,416</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### OPERATING BUDGET IMPACT (\$000)

Maintenance				347	0	0	56	97	97	97	
Energy				262	0	0	43	73	73	73	
Program-Staff				12,304	0	2,300	2,501	2,501	2,501	2,501	
Program-Other				625	0	297	82	82	82	82	
<b>Net Impact</b>				<b>13,538</b>	<b>0</b>	<b>2,597</b>	<b>2,682</b>	<b>2,753</b>	<b>2,753</b>	<b>2,753</b>	
WorkYears					0.0	27.0	27.0	27.0	27.0	27.0	

#### DESCRIPTION

This project provides for the design and construction of a new Fire and Rescue Station in the Neelsville-Germantown area and the purchase of associated fire apparatus. The facility will be located in the southwest quadrant of the intersection of Boland Farm Road and MD 355 in Germantown. The new station will be constructed in accordance with square footage specifications of the prototype Program of Requirements (POR) for a Class I fire station. A Class I fire station ranges from 19,550 to 20,135 gross square feet and includes apparatus bays, dormitory and support space, personnel living quarters, administrative offices, and meeting/training room. This station will include Personal Protective Equipment storage and Urban Search and Rescue storage totaling 2,000 square feet. On-site parking will be provided. Fire/rescue apparatus to be purchased for this station includes an EMS unit and a pumper.

#### COST CHANGE

Decrease due to lower than anticipated construction bids.

#### JUSTIFICATION

A new station is necessary in this area due to the present and projected population density for the Neelsville, Middlebrook, and Germantown areas, and present and future development of Neelsville, Fox Chapel, and Middlebrook shopping centers.

This project is recommended in the Fire, Rescue, Emergency Medical Services, and Community Risk Reduction Master Plan approved by the County Council in October 2005 and the MCFRS Station Location and Resource Allocation Work Group, Phase I Report, "Need for Upcounty Fire-Rescue Resource Enhancements," October 14, 1999.

#### FISCAL NOTE

The expenditures shown as "Other" are for the purchase of new apparatus (\$891,000) and furniture and equipment (\$1,024,000). Future replacement apparatus expenditures will be provided from the Operating Budget of the Montgomery County Fire and Rescue Service. Debt service for this project will be financed with Consolidated Fire Tax District Funds.

#### OTHER DISCLOSURES

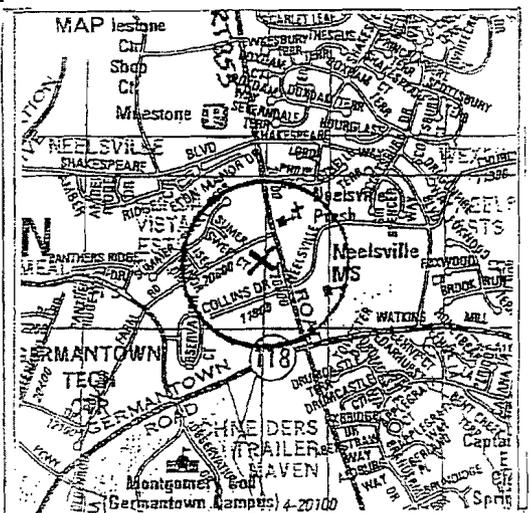
- A pedestrian impact analysis has been completed for this project.

APPROPRIATION AND EXPENDITURE DATA		
Date First Appropriation	FY01	(\$000)
First Cost Estimate		
Current Scope	FY09	17,062
Last FY's Cost Estimate		17,062
Appropriation Request	FY10	-800
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		17,062
Expenditures / Encumbrances		10,705
Unencumbered Balance		6,357
Partial Closeout Thru	FY07	0
New Partial Closeout	FY08	0
Total Partial Closeout		0

#### COORDINATION

Montgomery County Fire and Rescue Service  
Department of General Services  
Department of Permitting Services  
Department of Technology Services  
M-NCPPC

Special Projects Legislation was approved  
May 25, 2006 (Bill No. 08-06)



## East Germantown Fire Station -- No. 450101

Category	Public Safety	Date Last Modified	June 05, 2008
Subcategory	Fire/Rescue Service	Required Adequate Public Facility	No
Administering Agency	General Services	Relocation Impact	None.
Planning Area	Germantown	Status	Under Construction

### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY07	Est. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	1,830	627	719	484	343	141	0	0	0	0	0
Land	1,800	1,744	56	0	0	0	0	0	0	0	0
Site Improvements and Utilities	165	0	0	165	149	16	0	0	0	0	0
Construction	11,352	0	2,868	8,484	6,973	1,511	0	0	0	0	0
Other	1,915	0	0	1,915	1,367	548	0	0	0	0	0
<b>Total</b>	<b>17,062</b>	<b>2,371</b>	<b>3,643</b>	<b>11,048</b>	<b>8,832</b>	<b>2,216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### FUNDING SCHEDULE (\$000)

Fire Consolidated	706	0	706	0	0	0	0	0	0	0	0
G.O. Bonds	16,356	2,371	2,937	11,048	8,832	2,216	0	0	0	0	0
<b>Total</b>	<b>17,062</b>	<b>2,371</b>	<b>3,643</b>	<b>11,048</b>	<b>8,832</b>	<b>2,216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### OPERATING BUDGET IMPACT (\$000)

Maintenance				347	0	0	56	97	97	97
Energy				262	0	0	43	73	73	73
Program-Staff				12,304	0	2,300	2,501	2,501	2,501	2,501
Program-Other				625	0	297	82	82	82	82
<b>Net Impact</b>				<b>13,538</b>	<b>0</b>	<b>2,597</b>	<b>2,682</b>	<b>2,753</b>	<b>2,753</b>	<b>2,753</b>
WorkYears					0.0	27.0	27.0	27.0	27.0	27.0

#### DESCRIPTION

This project provides for the design and construction of a new Fire and Rescue Station in the Neelsville-Germantown area and the purchase of associated fire apparatus. The facility will be located in the southwest quadrant of the intersection of Boland Farm Road and MD 355 in Germantown. The new station will be constructed in accordance with square footage specifications of the prototype Program of Requirements (POR) for a Class I fire station. A Class I fire station ranges from 19,550 to 20,135 gross square feet and includes apparatus bays, dormitory and support space, personnel living quarters, administrative offices, and meeting/training room. This station will include Personal Protective Equipment storage and Urban Search and Rescue storage totaling 2,000 square feet. On-site parking will be provided. Fire/rescue apparatus to be purchased for this station includes an EMS unit and a pumper.

#### COST CHANGE

Increase due to construction cost escalation and additional site improvements.

#### JUSTIFICATION

A new station is necessary in this area due to the present and projected population density for the Neelsville, Middlebrook, and Germantown areas, and present and future development of Neelsville, Fox Chapel, and Middlebrook shopping centers. This project is recommended in the Fire, Rescue, Emergency Medical Services, and Community Risk Reduction Master Plan approved by the County Council in October 2005 and the MCFRS Station Location and Resource Allocation Work Group, Phase I Report, "Need for Upcounty Fire-Rescue Resource Enhancements," October 14, 1999.

#### FISCAL NOTE

The expenditures shown as "Other" are for the purchase of new apparatus (\$891,000) and furniture and equipment (\$1,024,000). Future replacement apparatus expenditures will be provided from the Operating Budget of the Montgomery County Fire and Rescue Service. Debt service for this project will be financed with Consolidated Fire Tax District Funds.

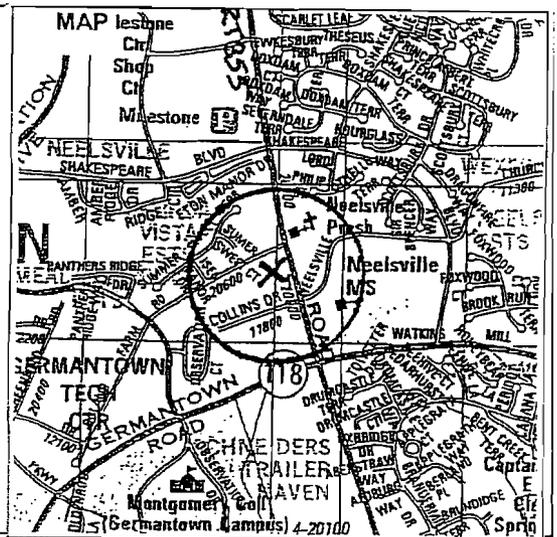
#### OTHER DISCLOSURES

- A pedestrian impact analysis has been completed for this project.

APPROPRIATION AND EXPENDITURE DATA		
Date First Appropriation	FY01	(\$000)
First Cost Estimate	FY09	17,062
Current Scope		
Last FY's Cost Estimate		14,959
Appropriation Request	FY09	2,093
Appropriation Request Est.	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		14,959
Expenditures / Encumbrances		10,295
Unencumbered Balance		4,674
Partial Closeout Thru	FY06	0
New Partial Closeout	FY07	0
Total Partial Closeout		0

**COORDINATION**  
 Montgomery County Fire and Rescue Service  
 Department of General Services  
 Department of Permitting Services  
 Department of Technology Services  
 M-NCPPC

Special Projects Legislation was approved May 25, 2006 (Bill No. 08-06)



# Travilah Fire Station -- No. 450504

PS Committee Rec.  
Changes to Approved  
FY09-14 PDF  
June 05, 2008

Category	Public Safety	Date Last Modified	June 05, 2008
Subcategory	Fire/Rescue Service	Required Adequate Public Facility	No
Administering Agency	General Services	Relocation Impact	None.
Planning Area	Potomac-Travilah	Status	Final Design Stage

### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY07	Est. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	678	96	567	15	15	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	841	0	541	300	0	300	0	0	0	0	0
Construction	3,293	0	93	3,200	2,000	<del>3,200</del>	<del>850</del>	0	0	0	0
Other	1,077	0	1,067	10	10	0	0	0	0	0	0
<b>Total</b>	<b>5,889</b>	<b>96</b>	<b>2,268</b>	<b>3,525</b>	<b>2,025</b>	<b>1,500</b>	<b>850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### FUNDING SCHEDULE (\$000) <sup>650</sup>

Fire Consolidated	706	0	706	0	0	0	0	0	0	0	0
G.O. Bonds	5,183	96	1,562	3,525	2,025	<del>650,500</del>	<del>850</del>	0	0	0	0
<b>Total</b>	<b>5,889</b>	<b>96</b>	<b>2,268</b>	<b>3,525</b>	<b>2,025</b>	<b>650,500</b>	<b>850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### OPERATING BUDGET IMPACT (\$000)

Maintenance				233	0	37	49	49	49	49
Energy				176	0	28	37	37	37	37
Program-Staff				12,304	0	2,300	2,501	2,501	2,501	2,501
Program-Other				482	0	334	37	37	37	37
<b>Net Impact</b>				<b>13,195</b>	<b>0</b>	<b>2,699</b>	<b>2,624</b>	<b>2,624</b>	<b>2,624</b>	<b>2,624</b>
WorkYears					0.0	27.0	27.0	27.0	27.0	27.0

#### DESCRIPTION

This project provides for the construction of a new fire-rescue station at 9710 Great Seneca Highway and the purchase of associated apparatus. Fire/rescue apparatus to be purchased for this station includes an EMS unit and an engine.

#### JUSTIFICATION

The new fire/rescue station is necessary in this area due to present and future population density and development. This growing area includes the new communities of Falls Grove and Travilah (both under construction) as well as existing communities in the Travilah/North Potomac area. Several major complexes and buildings in this area, including Shady Grove Adventist Hospital, Shady Grove Adventist Nursing Home, the National Lutheran Home, and the University of Maryland-Shady Grove Campus will be served by this station. The area already has a high volume of fire-rescue incidents that are expected to increase as Travilah and Falls Grove are completed and additional biotechnology facilities are constructed. Operation of this station will help the County meet Council-adopted fire-rescue response time goals as well as NFPA Standard 1710 guidelines. This project is recommended in the Fire, Rescue, Emergency Medical Services, and Community Risk Reduction Master Plan approved by the County Council in October 2005 and the MCFRS Station Location and Resource Allocation Work Group, Phase 1 Report, "Need for Up-County Fire-Rescue Resource Enhancements," October 14, 1999.

#### OTHER

The location and schedule of this project have been proposed to change by the County Executive as part of his comprehensive Property Use Initiative. The project scope, cost estimates, and schedule will be amended with the completion of a detailed implementation and financing plan for the Property Initiative.

#### FISCAL NOTE

The expenditures shown as "Other" are for the purchase of new apparatus (\$706,000) and furniture and equipment (\$371,000). Future replacement apparatus expenditures will be funded in the Operating Budget of the Montgomery County Fire and Rescue Service. Debt service for this project will be financed with Consolidated Fire Tax District Funds.

#### OTHER DISCLOSURES

- A pedestrian impact analysis will be performed during design or is in progress.

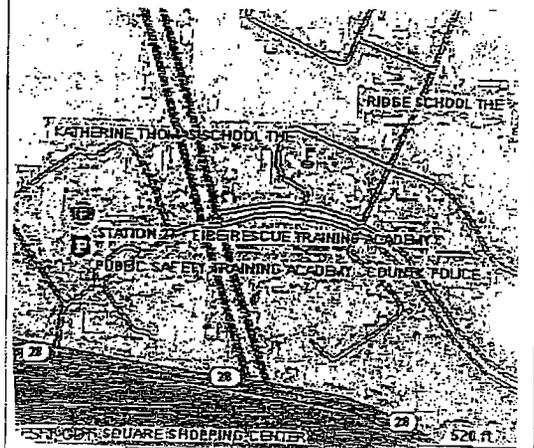
#### APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY05	(\$000)
First Cost Estimate		
Current Scope	FY07	5,889
Last FY's Cost Estimate		5,889
Appropriation Request	FY09	0
Appropriation Request Est.	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		5,889
Expenditures / Encumbrances		315
Unencumbered Balance		5,574
Partial Closeout Thru	FY06	0
New Partial Closeout	FY07	0
Total Partial Closeout		0

#### COORDINATION

Montgomery County Fire and Rescue Service  
Department of Police  
Department of General Services  
Department of Permitting Services  
Department of Technology Services

#### MAP



### Travilah Fire Station -- No. 450504

Category  
Subcategory  
Administering Agency  
Planning Area

Public Safety  
Fire/Rescue Service  
General Services  
Potomac-Travilah

Date Last Modified  
Required Adequate Public Facility  
Relocation Impact  
Status

January 12, 2009  
No  
None.  
Preliminary Design Stage

#### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY08	Rem. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	678	100	563	15	15	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	841	0	541	300	0	300	0	0	0	0	0
Construction	3,293	0	93	3,200	2,000	350	850	0	0	0	0
Other	1,077	0	1,067	10	10	0	0	0	0	0	0
<b>Total</b>	<b>5,889</b>	<b>100</b>	<b>2,264</b>	<b>3,525</b>	<b>2,025</b>	<b>650</b>	<b>850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### FUNDING SCHEDULE (\$000)

Fire Consolidated	706	0	706	0	0	0	0	0	0	0	0
G.O. Bonds	5,183	100	1,558	3,525	2,025	650	850	0	0	0	0
<b>Total</b>	<b>5,889</b>	<b>100</b>	<b>2,264</b>	<b>3,525</b>	<b>2,025</b>	<b>650</b>	<b>850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### OPERATING BUDGET IMPACT (\$000)

Maintenance				228	0	0	0	52	88	88	
Energy				173	0	0	0	39	67	67	
Program-Staff				7,302	0	0	0	2,300	2,501	2,501	
Program-Other				173	0	0	0	39	67	67	
<b>Net Impact</b>				<b>7,876</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,430</b>	<b>2,723</b>	<b>2,723</b>	
WorkYears					0.0	0.0	0.0	27.0	27.0	27.0	

#### DESCRIPTION

This project provides for the construction of a new fire-rescue station at 9710 Great Seneca Highway and the purchase of associated apparatus. Fire/rescue apparatus to be purchased for this station includes an EMS unit and an engine. The configuration of the fire station has been changed from a 2-bay fire station to a 3-bay fire station to accommodate expanded needs. This project's scope and schedule changed because the station was planned to be connected to the Public Safety Training Academy, but due to the Academy's relocation for the Smart Growth Initiative, the station will now be a stand alone facility.

#### JUSTIFICATION

The new fire/rescue station is necessary in this area due to present and future population density and development. This growing area includes the new communities of Falls Grove and Travilah as well as existing communities in the Travilah/North Potomac area. Several major complexes and buildings in this area, including Shady Grove Adventist Hospital, Shady Grove Adventist Nursing Home, National Lutheran Home, and the University of Maryland-Shady Grove Campus will be served by this station. The area already has a high volume of fire-rescue incidents that are expected to increase when Johns Hopkins University Belward Campus and Crown Village Community are completed and additional bio-technology facilities are constructed. Operation of this station will help the County meet Council-adopted fire-rescue response time goals as well as NFPA Standard 1710 guidelines. This project is recommended in the Fire, Rescue, Emergency Medical Services, and Community Risk Reduction Master Plan approved by the County Council in October 2005 and the MCFRS Station Location and Resource Allocation Work Group, Phase 1 Report, "Need for Up-County Fire-Rescue Resource Enhancements," October 14, 1999.

#### FISCAL NOTE

The expenditures shown as "Other" include the purchase of new apparatus and furniture and equipment. Future replacement apparatus expenditures will be funded in the Operating Budget of the Montgomery County Fire and Rescue Service. Debt service for this project will be financed with Consolidated Fire Tax District Funds.

The project provides for only the design phase. Final construction costs will be determined during the design development stage. The total cost of this project is estimated to be between \$12 and \$15 million.

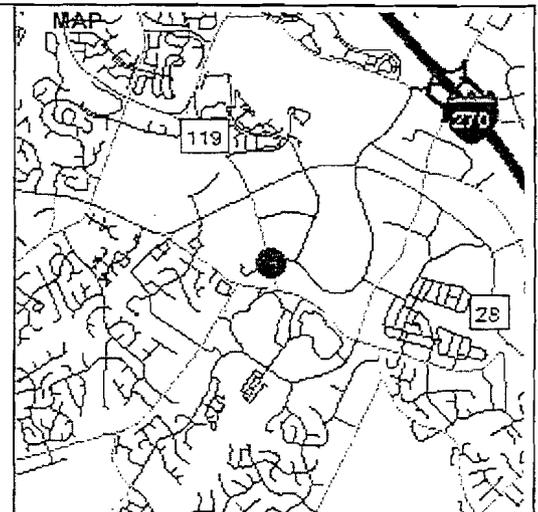
#### OTHER DISCLOSURES

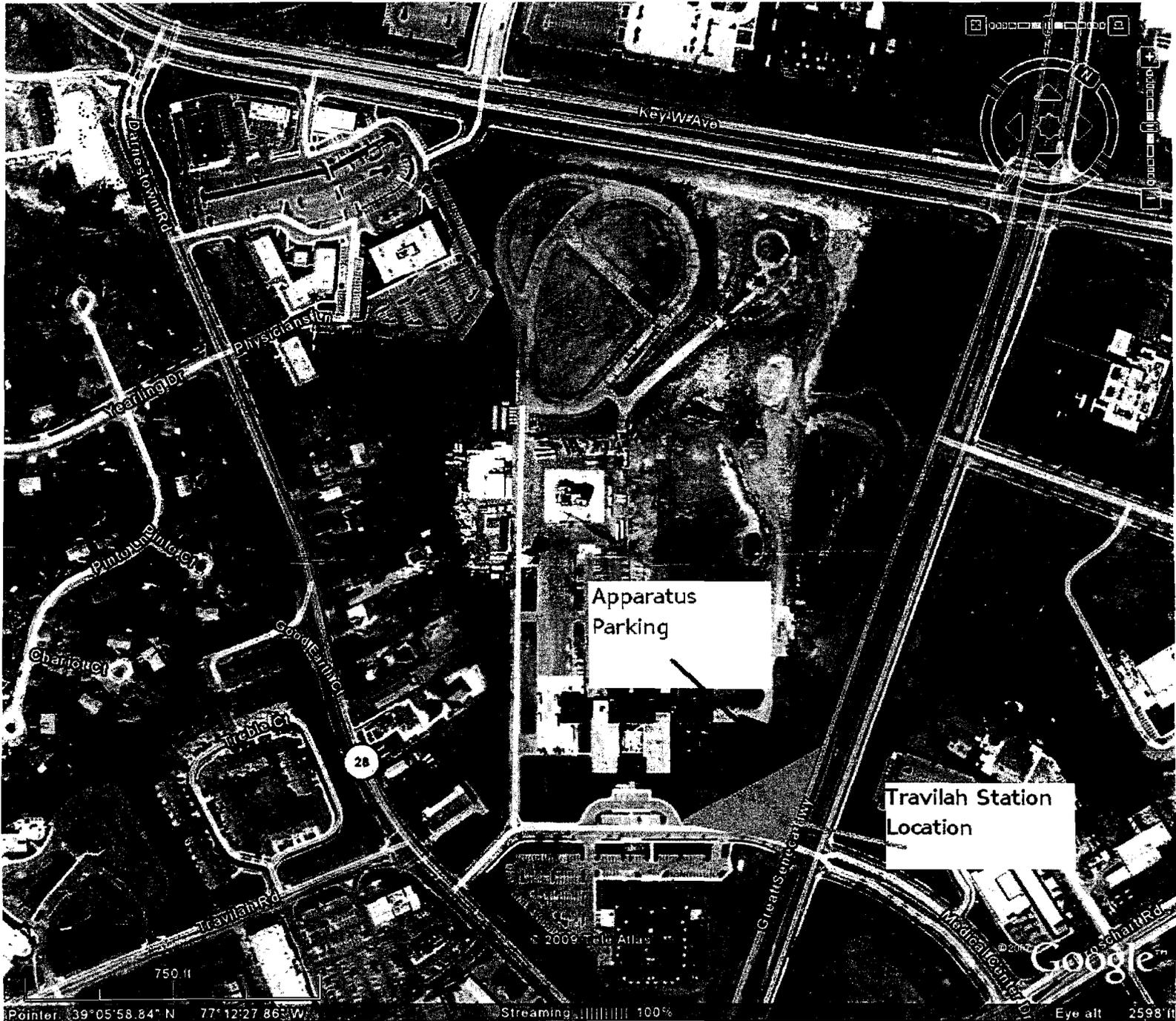
- A pedestrian impact analysis will be performed during design or is in progress.

APPROPRIATION AND EXPENDITURE DATA		
Date First Appropriation	FY05	(\$000)
First Cost Estimate	FY10	5,889
Current Scope		5,889
Last FY's Cost Estimate		5,889
Appropriation Request	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		5,889
Expenditures / Encumbrances		323
Unencumbered Balance		5,566
Partial Closeout Thru	FY07	0
New Partial Closeout	FY08	0
Total Partial Closeout		0

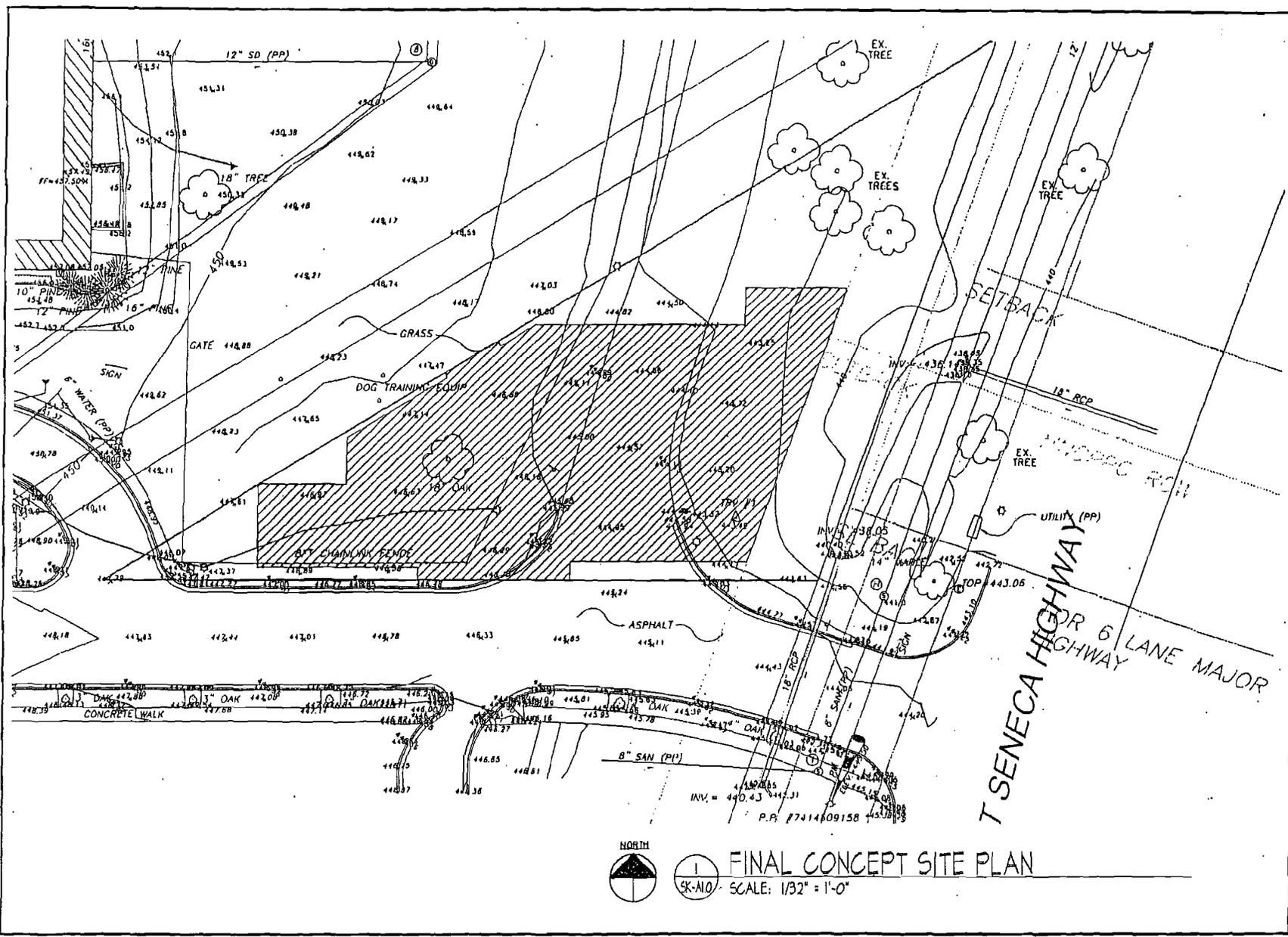
#### COORDINATION

Montgomery County Fire and Rescue Service  
Department of Police  
Department of General Services  
Department of Permitting Services  
Department of Technology Services



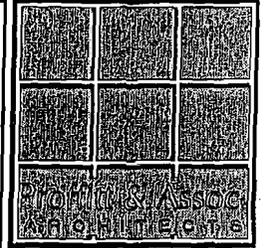


(11)



FINAL CONCEPT SITE PLAN

SCALE: 1/32" = 1'-0"



100 NORTH MARKET STREET  
 FREDERICK, MARYLAND 21701  
 (301) 662-8532  
 FAX (301) 662-4192  
 info@profittiandassociates.com

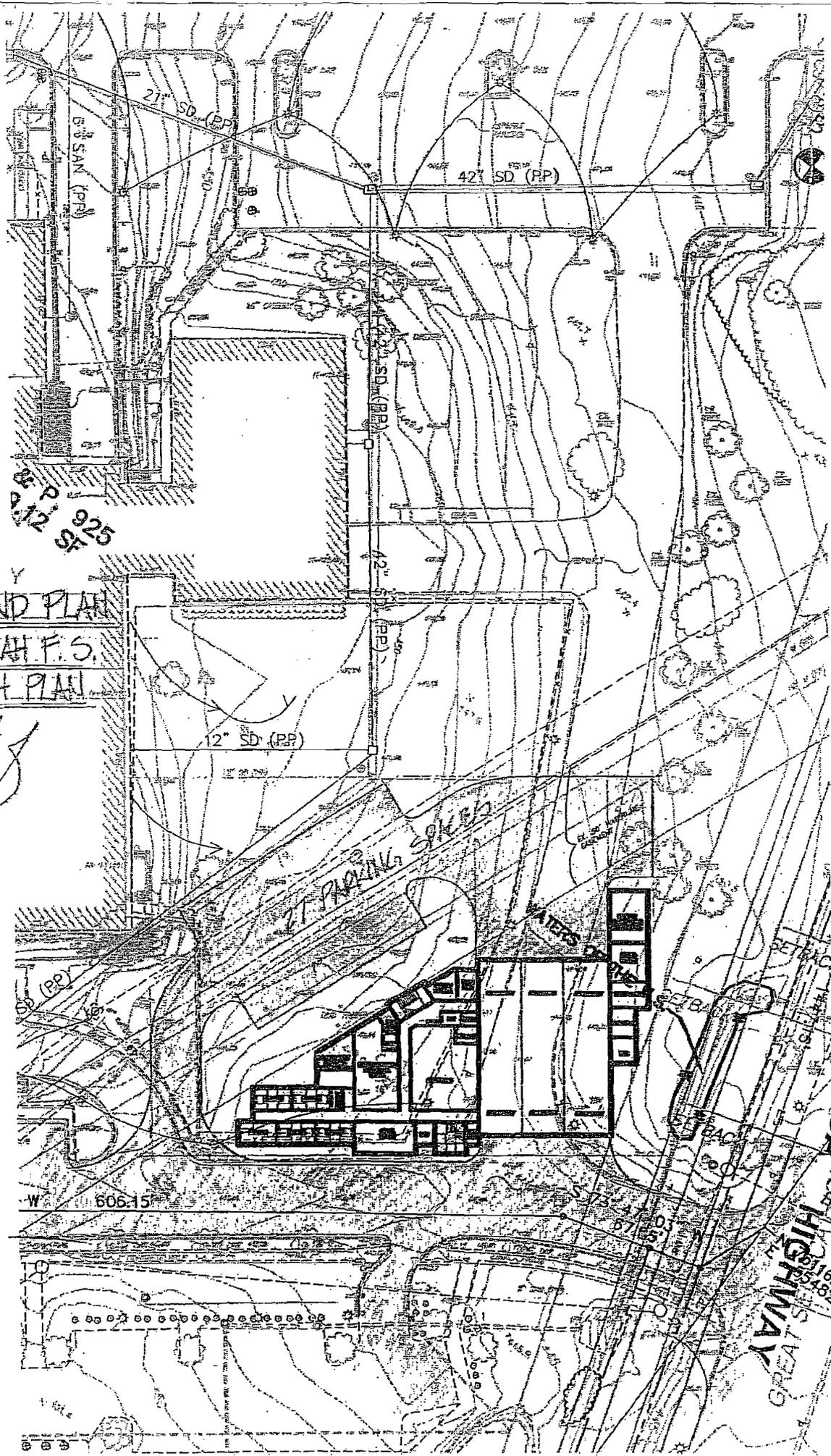
NEW FACILITY FOR THE  
**TRAVILAH FIRE STATION**  
 Station No. 32  
 9710 GREAT SENECA HIGHWAY  
 ROCKVILLE, MARYLAND 20850  
© COPYRIGHT 2008 PROFITTI & ASSOCIATES ARCHITECTS

PROJECT NO.: 03-02.07

2 OCT 08  
 CONCEPT SITE PLAN

**SK-A1.0**

405 paces  
20

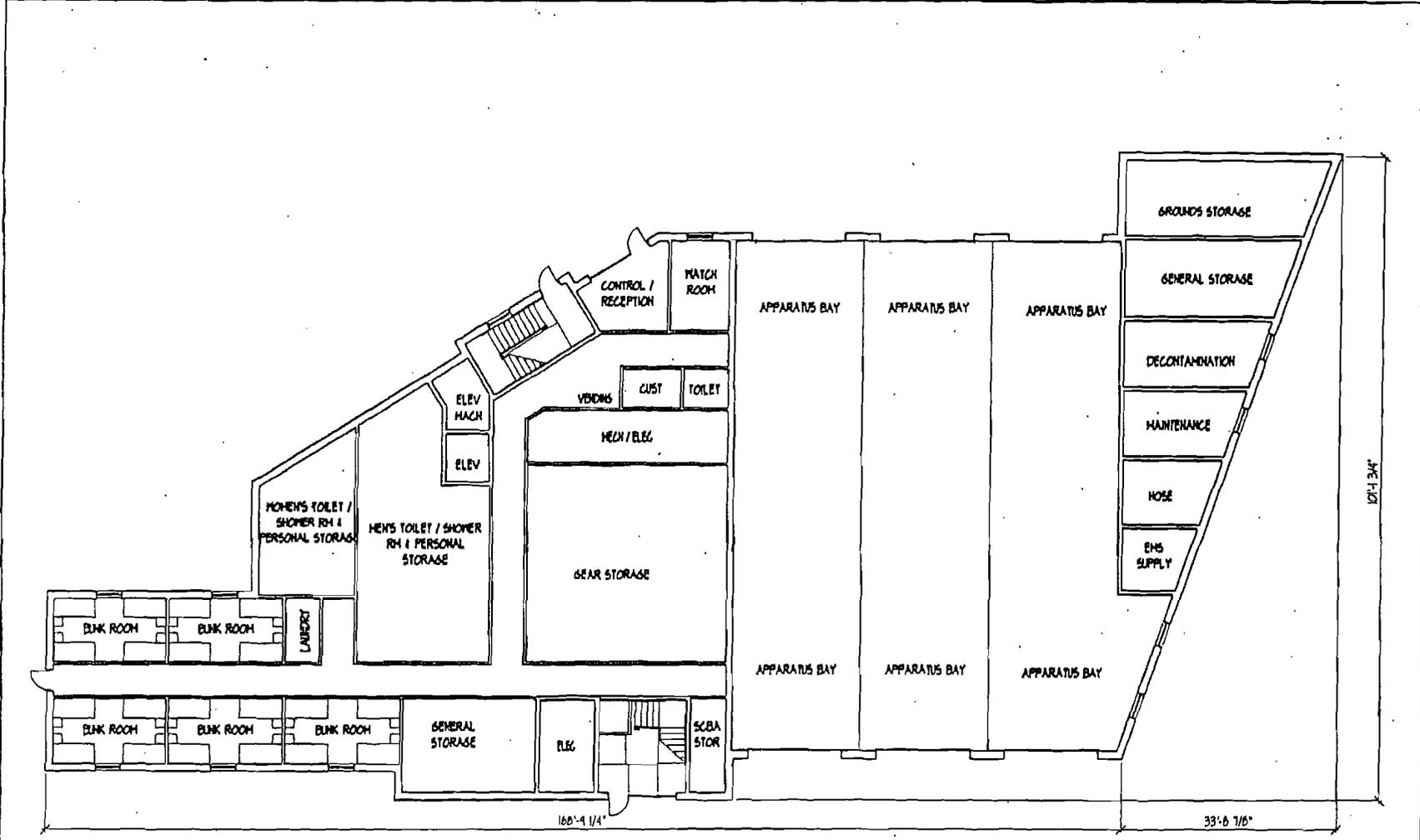


SECOND PLAN  
TRAVILAH F.S.  
SKETCH PLAN

10/02



SCALE  
1" = 60' ±



FINAL CONCEPT PLAN - FIRST FL

SCALE: 1/16" = 1'-0"



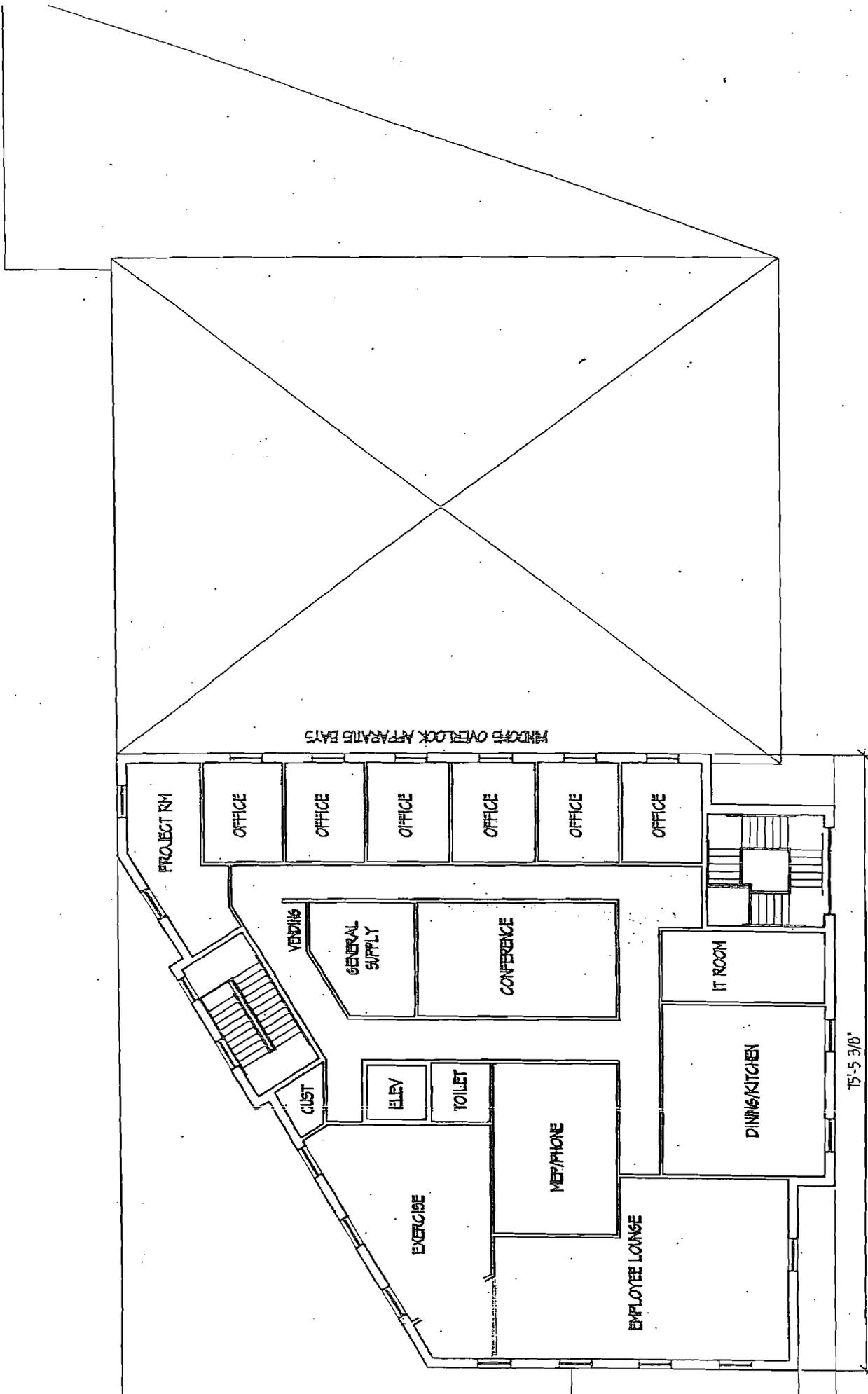
100 NORTH MARKET STREET  
 FREDERICK, MARYLAND 21701  
 (301) 662-8532  
 FAX (301) 662-4192  
 info@profitllendassociates.com

NEW FACILITY FOR THE  
**TRAVILAH FIRE STATION**  
 Station No. 32  
 9710 GREAT SENECA HIGHWAY  
 ROCKVILLE, MARYLAND 20850  
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PROJECT NO.: 03-02.07

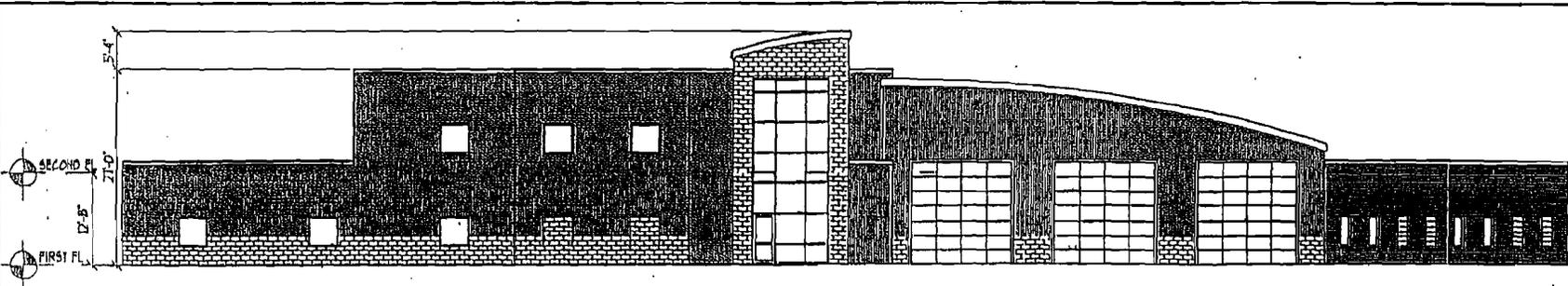
2 OCT 08  
 CONCEPT PLAN

**SK-A1.1**

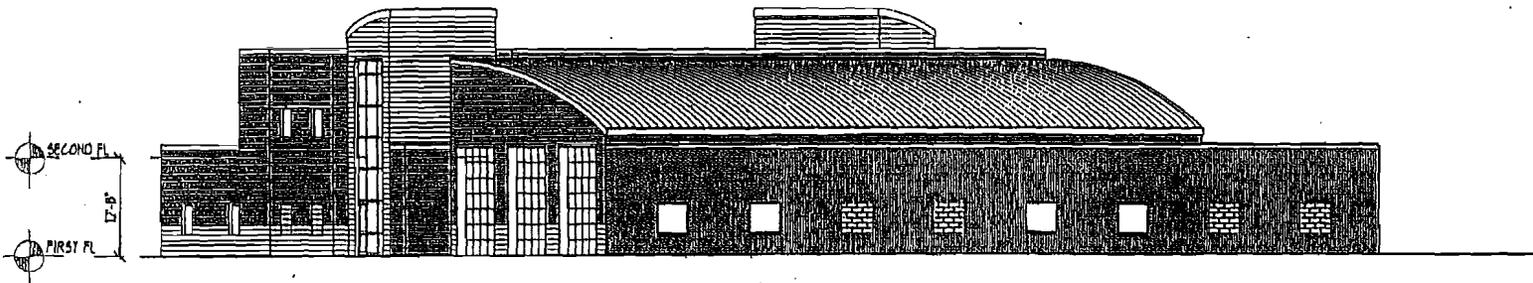


WINDOVS OVERLOOK APARTS BAYS

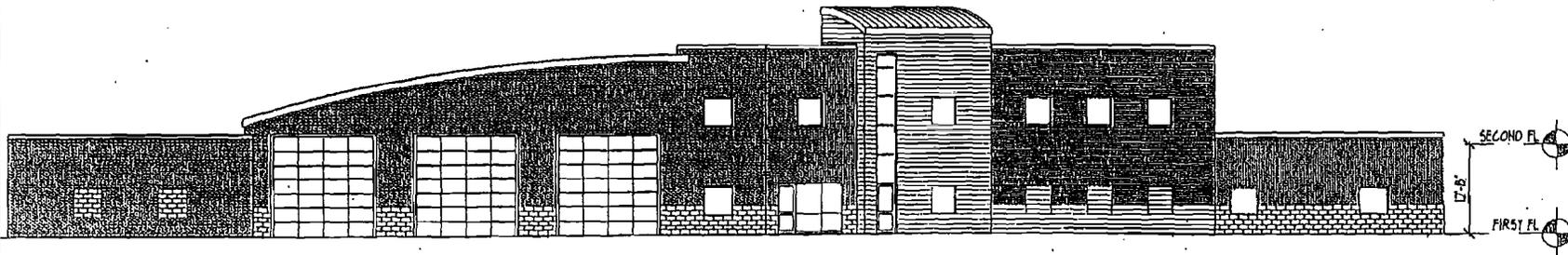
NORTH



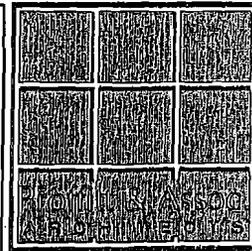
1 FINAL CONCEPT ELEVATION (FRONT)  
 SK-A31 SCALE: 1/16" = 1'-0"



2 FINAL CONCEPT ELEVATION (EAST SIDE)  
 SK-A31 SCALE: 1/16" = 1'-0"



3 FINAL CONCEPT ELEVATION (REAR)  
 SK-A31 SCALE: 1/16" = 1'-0"



100 NORTH MARKET STREET  
 FREDERICK, MARYLAND 21701  
 (301) 662-8532  
 FAX (301) 662-4192  
 info@proffireassociates.com

NEW FACILITY FOR THE  
**TRAVILAH FIRE STATION**  
 Station No. 32  
 9710 GREAT SENECA HIGHWAY  
 ROCKVILLE, MARYLAND 20850  
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PROJECT NO.: 03-02.07

2 OCT 08  
 CONCEPT ELEVATIONS

**SK-A3.1**

## Wheaton Rescue Squad Relocation -- No. 450505

Category                    Public Safety  
 Subcategory              Fire/Rescue Service  
 Administering Agency    Fire/Rescue Service  
 Planning Area             Kensington-Wheaton

Date Last Modified        January 12, 2009  
 Required Adequate Public Facility    No  
 Relocation Impact        None.  
 Status                      Planning Stage

### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY08	Rem. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	1,151	6	658	487	347	47	47	46	0	0	0
Land	1,000	0	0	1,000	1,000	0	0	0	0	0	0
Site Improvements and Utilities	1,349	0	1,349	0	0	0	0	0	0	0	0
Construction	8,096	0	4,436	3,660	2,160	93	453	954	0	0	0
Other	208	0	180	28	0	28	0	0	0	0	0
<b>Total</b>	<b>11,804</b>	<b>6</b>	<b>6,623</b>	<b>5,175</b>	<b>3,507</b>	<b>168</b>	<b>500</b>	<b>1,000</b>	<b>0</b>	<b>0</b>	<b>0</b>

### FUNDING SCHEDULE (\$000)

G.O. Bonds	11,798	0	6,623	5,175	3,507	168	500	1,000	0	0	0
PAYGO	6	6	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>11,804</b>	<b>6</b>	<b>6,623</b>	<b>5,175</b>	<b>3,507</b>	<b>168</b>	<b>500</b>	<b>1,000</b>	<b>0</b>	<b>0</b>	<b>0</b>

### OPERATING BUDGET IMPACT (\$000)

Maintenance				154	0	0	0	36	59	59
Energy				117	0	0	0	27	45	45
<b>Net Impact</b>				<b>271</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>104</b>	<b>104</b>

#### DESCRIPTION

The Wheaton Volunteer Rescue Squad (WVRS) is planning to relocate from its existing facility, located at 11435 Grandview Avenue, to a new site at the corner of Georgia Avenue and Arcola Avenue. The WVRS has been at the Grandview Avenue location for approximately 35 years. The facility, a Class 1 Fire/Rescue Station, will be located on property owned by the WVRS.

#### JUSTIFICATION

The Grandview Avenue facility is in poor overall condition and is significantly undersized to meet the needs of the WVRS. This project is recommended in the Fire, Rescue, Emergency Medical Services, and Community Risk Reduction Master Plan approved by the County Council in October 2005.

#### OTHER

Preliminary cost estimates have been provided by the WVRS. The expenditures reflect about one-half of the total cost of the project as WVRS is contributing the remaining one-half using non-County funds. MCFRS and the WVRS will develop a Memorandum of Understanding to address terms for construction, financing, ownership, and operation of the new station. Upon completion of the project, the County and the WVRS will share ownership of the station and land. Preliminary cost estimates do not include all costs for off-site improvements, if needed. The total project cost will increase if additional off-site improvements are programmed.

#### FISCAL NOTE

Debt service for this project will be financed with Consolidated Fire Tax District Funds. Project schedule amended to reflect current implementation plan.

#### OTHER DISCLOSURES

- A pedestrian impact analysis will be performed during design or is in progress.

APPROPRIATION AND EXPENDITURE DATA		
Date First Appropriation	FY05	(\$000)
First Cost Estimate	FY05	4,239
Current Scope		
Last FY's Cost Estimate		11,804
Appropriation Request	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		11,804
Expenditures / Encumbrances		6
Unencumbered Balance		11,798
Partial Closeout Thru	FY07	0
New Partial Closeout	FY08	0
Total Partial Closeout		0

#### COORDINATION

Montgomery County Fire and Rescue Service  
 Wheaton Volunteer Rescue Squad  
 Department of General Services  
 Department of Permitting Services  
 Department of Technology Services  
 County Attorney's Office  
 Mid-County Regional Services Center  
 Wheaton Redevelopment Office  
 M-NCPPC



## Wheaton Rescue Squad Relocation -- No. 450505

Category                    Public Safety  
 Subcategory              Fire/Rescue Service  
 Administering Agency    Fire/Rescue Service  
 Planning Area             Kensington-Wheaton

Date Last Modified        June 05, 2008  
 Required Adequate Public Facility    No  
 Relocation Impact        None.  
 Status                      Planning Stage

### EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY07	Est. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	1,151	6	658	487	347	140	0	0	0	0	0
Land	1,000	0	0	1,000	1,000	0	0	0	0	0	0
Site Improvements and Utilities	1,349	0	1,349	0	0	0	0	0	0	0	0
Construction	7,779	0	4,436	3,343	2,160	1,183	0	0	0	0	0
Other	525	0	180	345	0	345	0	0	0	0	0
<b>Total</b>	<b>11,804</b>	<b>6</b>	<b>6,623</b>	<b>5,175</b>	<b>3,507</b>	<b>1,668</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### FUNDING SCHEDULE (\$000)

G.O. Bonds	11,798	0	6,623	5,175	3,507	1,668	0	0	0	0	0
PAYGO	6	6	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>11,804</b>	<b>6</b>	<b>6,623</b>	<b>5,175</b>	<b>3,507</b>	<b>1,668</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### OPERATING BUDGET IMPACT (\$000)

Maintenance	272	0	36	59	59	59	59
Energy	207	0	27	45	45	45	45
<b>Net Impact</b>	<b>479</b>	<b>0</b>	<b>63</b>	<b>104</b>	<b>104</b>	<b>104</b>	<b>104</b>

#### DESCRIPTION

The Wheaton Volunteer Rescue Squad (WVRS) is planning to relocate from its existing facility, located at 11435 Grandview Avenue, to a new site at the corner of Georgia Avenue and Arcola Avenue. The WVRS has been at the Grandview Avenue location for approximately 35 years. The facility, a Class 1 Fire/Rescue Station, will be located on property owned by the WVRS.

#### COST CHANGE

Increase due to construction cost re-estimation.

#### JUSTIFICATION

The Grandview Avenue facility is in poor overall condition and is significantly undersized to meet the needs of the WVRS. This project is recommended in the Fire, Rescue, Emergency Medical Services, and Community Risk Reduction Master Plan approved by the County Council in October 2005.

#### OTHER

Preliminary cost estimates have been provided by the WVRS. The expenditures reflect about one-half of the total cost of the project as WVRS contributing the remaining one-half using non-County funds. MCFRS and the WVRS will develop a Memorandum of Understanding to address terms for construction, financing, ownership, and operation of the new station. Upon completion of the project, the County and the WVRS will share ownership of the station and land. Preliminary cost estimates do not include all costs for off-site improvements, if needed. The total project cost will increase if additional off-site improvements are programmed.

#### FISCAL NOTE

Debt service for this project will be financed with Consolidated Fire Tax District Funds.

#### OTHER DISCLOSURES

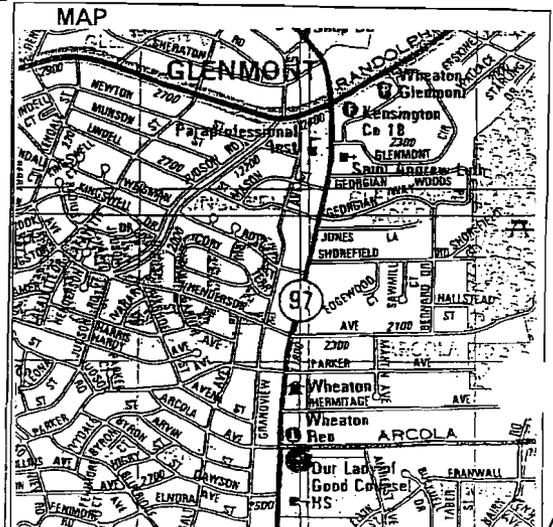
- A pedestrian impact analysis will be performed during design or is in progress.

#### APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY05	(\$000)
First Cost Estimate		
Current Scope	FY05	4,239
Last FY's Cost Estimate		6,916
Appropriation Request	FY09	11,714
Appropriation Request Est.	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		90
Expenditures / Encumbrances		6
Unencumbered Balance		84
Partial Closeout Thru	FY06	0
New Partial Closeout	FY07	0
Total Partial Closeout		0

#### COORDINATION

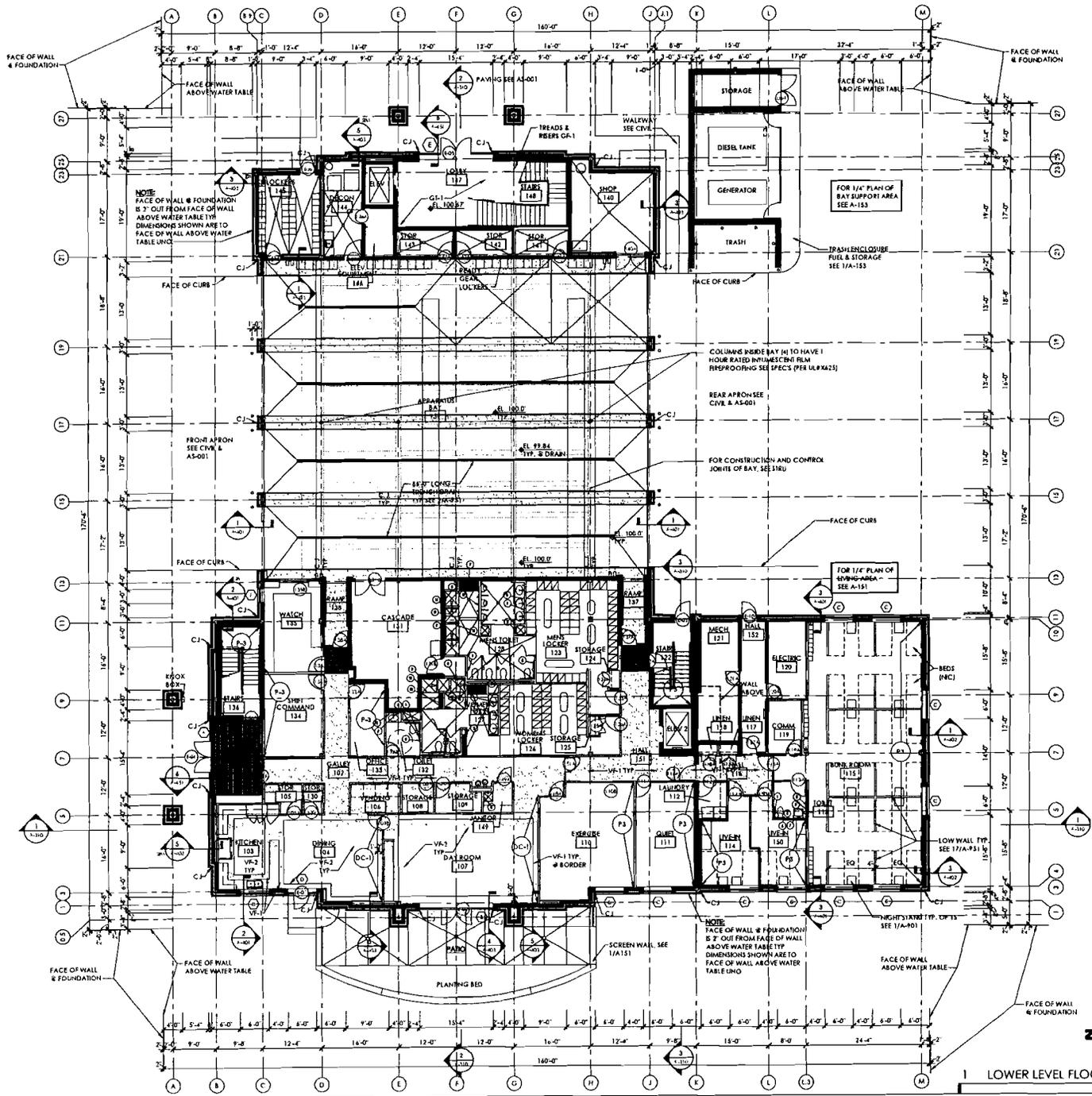
Montgomery County Fire and Rescue Service  
 Wheaton Volunteer Rescue Squad  
 Department of General Services  
 Department of Permitting Services  
 Department of Technology Services  
 County Attorney's Office  
 Mid-County Regional Services Center  
 Wheaton Redevelopment Office  
 M-NCPPC



WHEATON VOLUNTEER  
RESCUE SQUAD STATION  
2400 ARCOLA AVENUE  
WHEATON, MARYLAND 20902  
OVERALL PLAN  
LOWER LEVEL



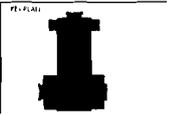
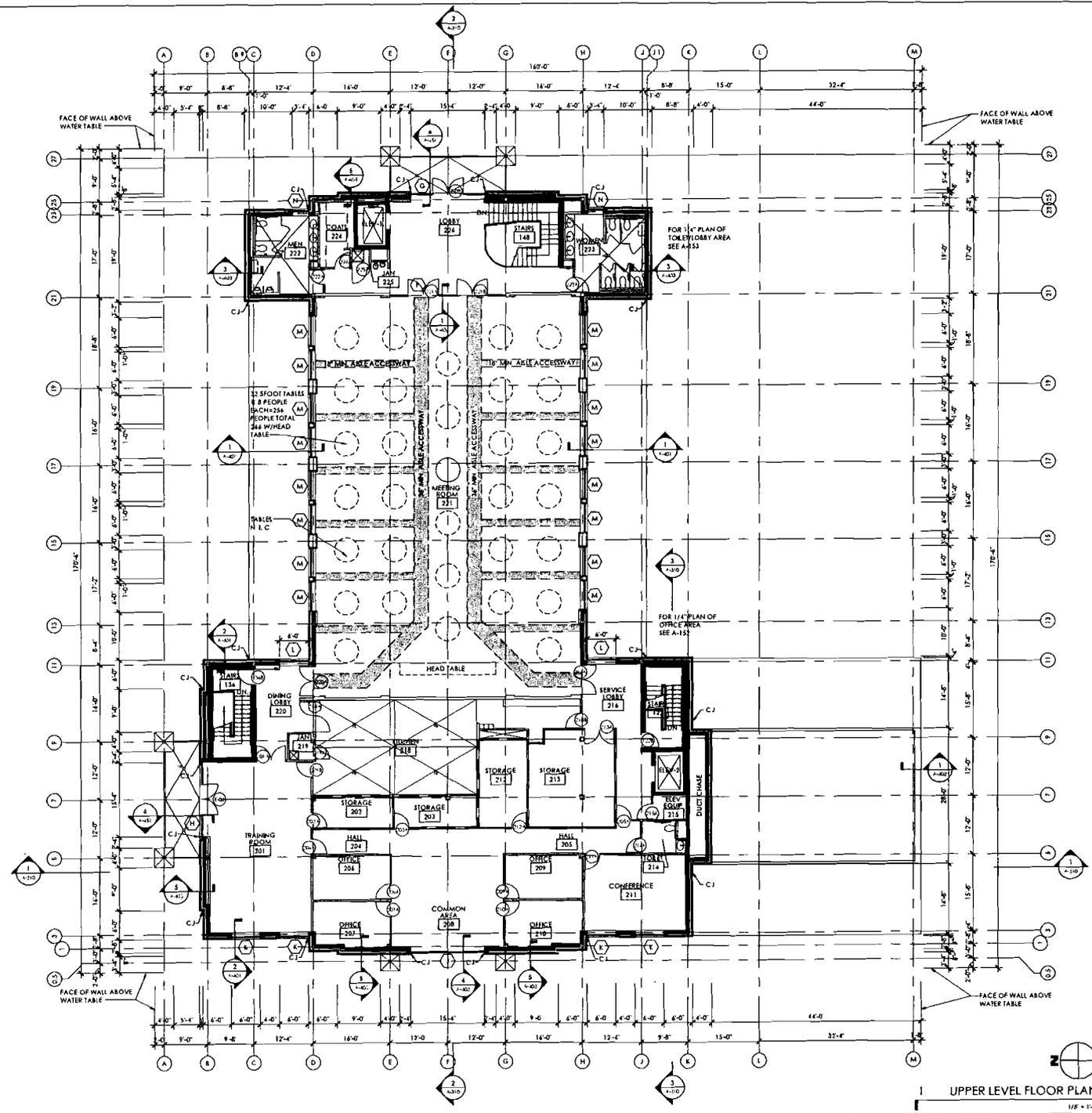
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PROJECT NO: 0803  
SHEET: A-101



1 LOWER LEVEL FLOOR PLAN  
1/8"=1'-0"

**WHEATON VOLUNTEER  
RESCUE SQUAD STATION**  
2400 ARCOLA AVENUE  
WHEATON, MARYLAND 20902

UPPER LEVEL  
OVERALL PLAN



TITLE  
DATE: 09-29-08  
PROGRAM: 21

DESIGNER: HGA

DATE: 09-29-08  
SCALE: 1/8" = 1'-0"

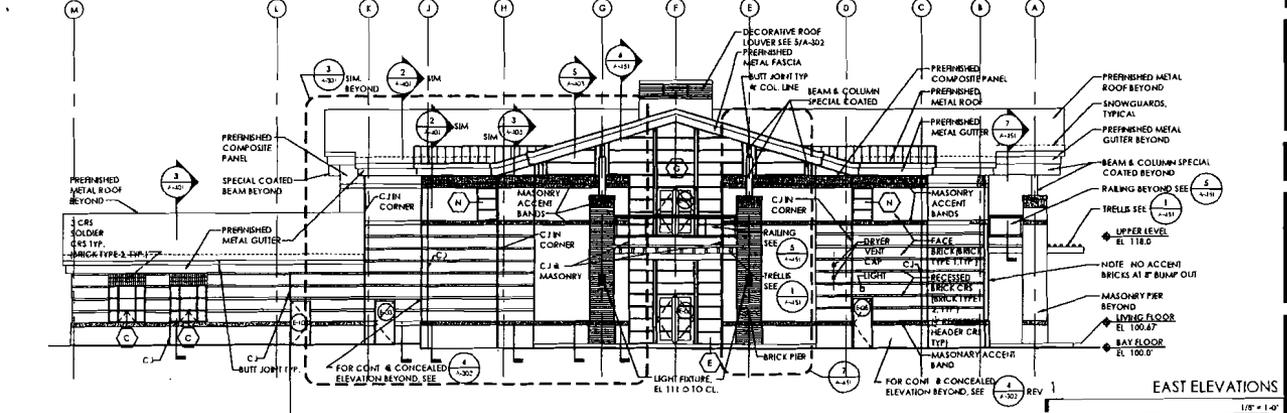
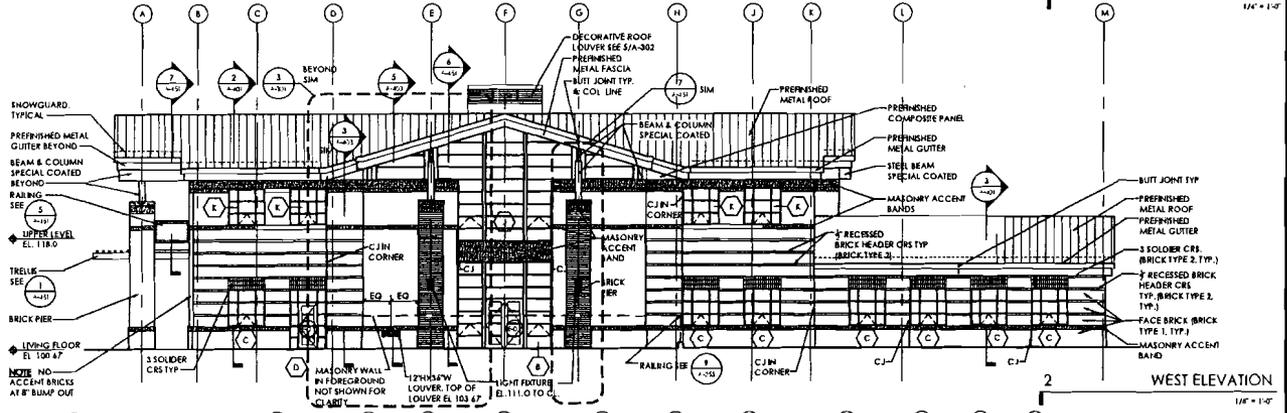
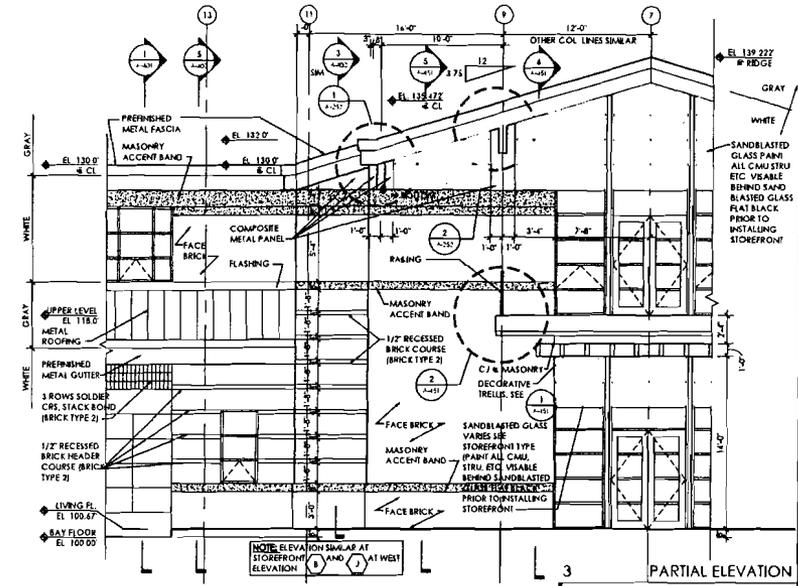
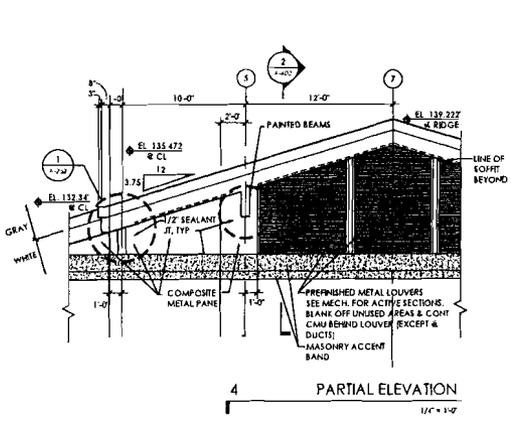
PROJECT NO: 0803

SHEET: A-102

1 UPPER LEVEL FLOOR PLAN  
1/8" = 1'-0"

**GENERAL NOTES**

1. FOR FINISHING AND/OR INSTALLATION SEE SPEC.
2. COOL BEAM CEILING SHALL BE INSTALLED AT CEILING, BROWLINE, END WALLS, BRICK HEADS, RECESSED BRICK COURSE, MASONRY ACCENT BANDS, AND OTHER FINISHING DETAILS.
3. CONSIDER THE EFFECTS OF THERMAL MOVEMENT AND PLUMBING & ACI DETAILS.
4. ALL FINISHES AND MATERIALS SHALL BE APPROVED BY ARCHITECT AND CONTRACTOR BEFORE INSTALLATION.
5. SEE ROOF PLAN FOR FINISHING AND/OR INSTALLATION.
6. BEAM & COLUMN SPECIAL COATED BEYOND BROWLINE AND END WALLS.
7. COOL BEAM CEILING SHALL BE INSTALLED AT CEILING, BROWLINE, END WALLS, BRICK HEADS, RECESSED BRICK COURSE, MASONRY ACCENT BANDS, AND OTHER FINISHING DETAILS.
8. COOL BEAM CEILING SHALL BE INSTALLED AT CEILING, BROWLINE, END WALLS, BRICK HEADS, RECESSED BRICK COURSE, MASONRY ACCENT BANDS, AND OTHER FINISHING DETAILS.
9. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
10. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
11. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
12. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
13. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
14. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
15. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
16. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
17. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
18. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
19. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.
20. SEE SPEC. FOR FINISHING AND/OR INSTALLATION.



**HUGHES GROUP ARCHITECTS**  
2000 CHASE DRIVE, SUITE 100  
WHEATON, VIRGINIA 20914  
703-437-8800

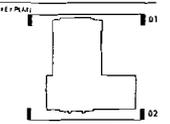
CLIENT:  
**THE WHEATON VOLUNTEER  
RESCUE SQUAD INC.**  
2000 ARCOLA AVENUE  
WHEATON, MARYLAND 20902

ARCHITECTURAL DESIGNER:  
**DESIGNTECH INC.**  
2011 SHOCKWOOD PARKWAY, SUITE 100  
LEESBURG, VA 20176  
703-251-1128

STRUCTURAL ENGINEER:  
**EBLERT/BRYAN**  
1000 CONE AND CHESTNUT STS. 2ND FLOOR  
ALEXANDRIA, VA 22304  
703-683-9900

**WHEATON VOLUNTEER  
RESCUE SQUAD STATION**  
2000 ARCOLA AVENUE  
WHEATON, MARYLAND 20902

EXTERIOR ELEVATIONS



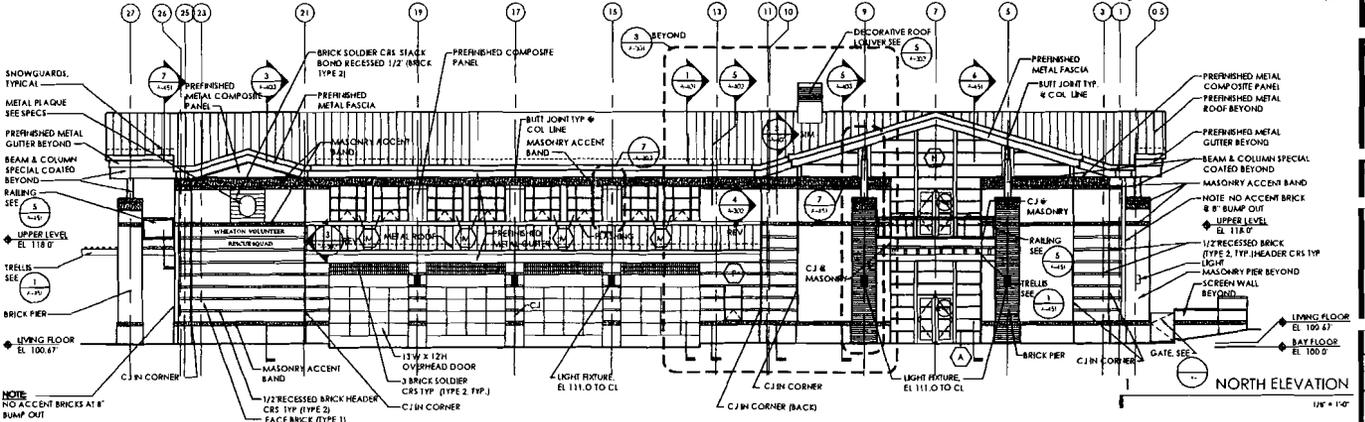
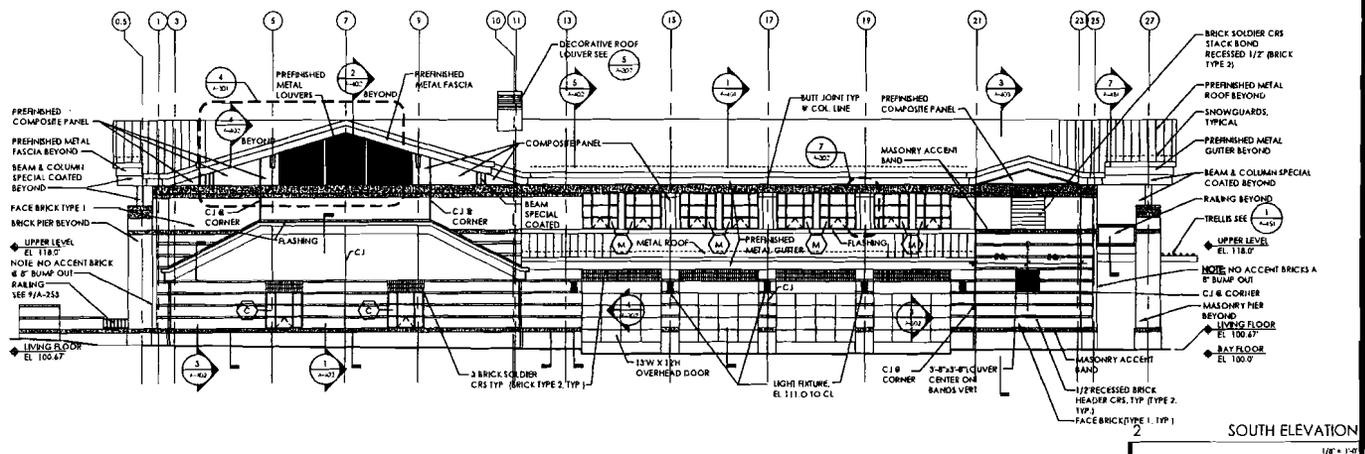
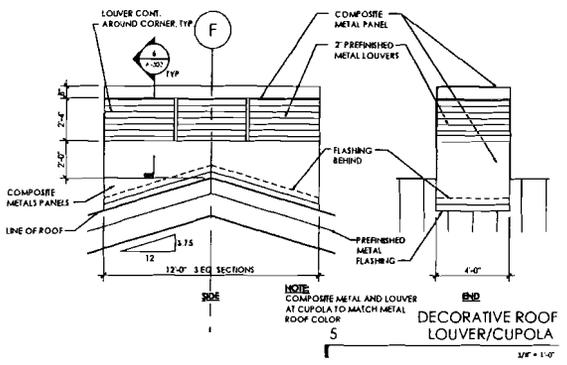
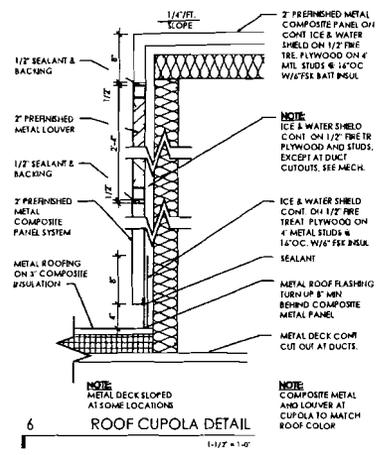
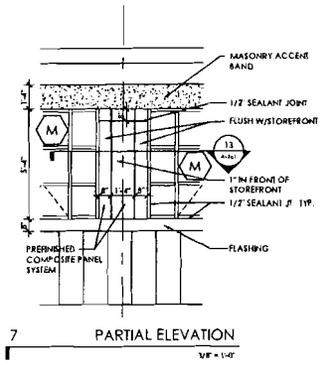
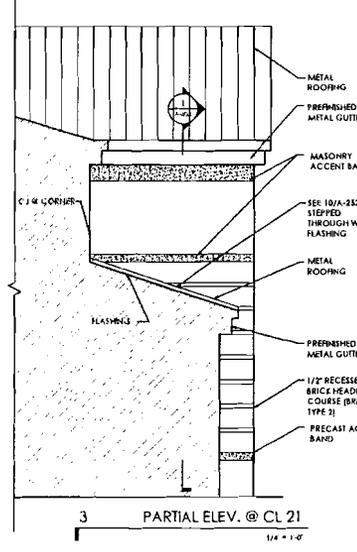
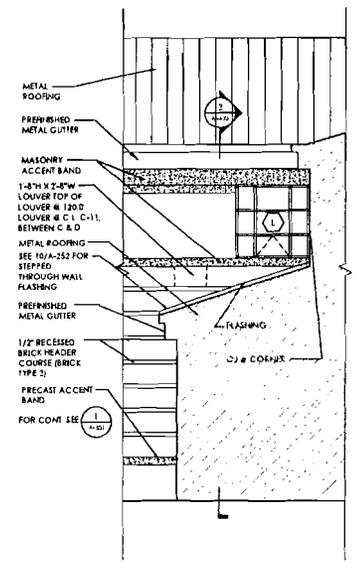
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CHECK: [Signature]	DATE: 10/14/08



CLIENT  
**THE WHEATON VOLUNTEER  
 RESCUE SQUAD INC.**  
 2400 ARCOLA AVENUE  
 WHEATON, MARYLAND 20902

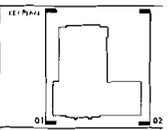
ARCHITECT/MECHANICAL  
**DESIGN/TECH INC.**  
 441 JAMES WOODS PARKWAY, SUITE 100  
 LEBANON, VA 22756  
 540.233.1744

STRUCTURAL  
**EHLERT/BRYAN**  
 11511 COLLETT AVENUE, SUITE 207  
 WASHINGTON, VA 22703  
 540.877.9442



**WHEATON VOLUNTEER  
 RESCUE SQUAD STATION**  
 2400 ARCOLA AVENUE  
 WHEATON, MARYLAND 20902

EXTERIOR ELEVATIONS



DATE: 08-22-14  
 DRAWN BY: JAC  
 PROJECT: 1403  
 SHEET: 0803