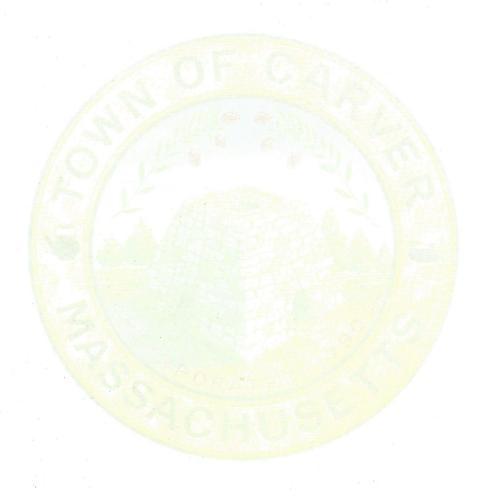
PUBLIC SAFETY FACILITIES STUDY CARVER, MA



December 28, 2010



PUBLIC SAFETY FACILITIES STUDY CARVER, MA

PART I

FIRE HEADQUARTERS STUDY

PART II

POLICE HEADQUARTERS STUDY

PART III

APPENDIX

PART II POLICE HEADQUARTERS STUDY

- A. Projected Staffing and Facility Analysis
 - 1. June 12, 2009
- **B.** Draft Summary Spatial Needs Assessment
 - 1. October 6, 2009 Superseded
 - 2. October 6, 2009 Revised
- C. Probable Estimate of Project Costs Schematic Phase
 - 1. December 10, 2010
- D. Existing Plan Review
- E. Previous Police Station Design Drawings
- F. Overhead Site Photographs
- G. Proposed New Police Headquarters Design Drawings
 - 1. Proposed Site Layout Plan
 - 2. Preliminary First Floor Plan
 - 3. Preliminary Second Floor Plan
 - 4. Schematic Exterior Elevations
- H. Proposed New Police Headquarters Presentation Drawings
 - 1. Proposed Site Layout Plan
 - 2. Preliminary First Floor Plan
 - 3. Preliminary Second Floor Plan
 - 4. Schematic Exterior Elevations



PROPOSED NEW CARVER POLICE HEADQUARTERS PROJECTED STAFFING AND FACILITY ANALYSIS

June 12, 2009

A. Population Growth Analysis

- 1. Population Statistics (U.S. Census Bureau)
 - a. 1980: 6,988 pop.
 - b. 1990: 10,590 pop.
 - c. 2000: 11,163 pop.
 - d. 2005: 11,562 pop.
- 2. Population Growth Statistics
 - a. 1980-2005: 11,562/6,988 = 65%/25 yrs. = 2.6% per yr.
 - b. 1990-2005: 11,562/10,590 = 9%/15 yrs. = .6% per yr.
 - c. 2000-2005: 11,562/11,163 = 3.4%/5 yrs. = .68% per yr.
- 3. Population Projection (SRPEDD)
 - a. 2010: 12,443 pop.
 - b. 2020: 13,723 pop.
 - c. 2030: 15,003 pop.
- 4. Population Growth Projection
 - a. 2000-2030: 15,003/11,163 = 34.4%/30 yrs. = 1.1% per yr.
- 5. Summary Population Growth Analysis
 - a. Projected annual population growth: .7% to 1.1% per yr.
 - b. Projected population growth is approximately ½ CFS growth rate and follows general rule of thumb comparison.
 - c. Recommend Calls-For Service (CFS) projection method as it more closely aligns with Police activity and service levels.

B. Calls for Services Analysis

- 1. Earliest provided CFS statistics (current records management system) 1994: 6962 CFS (Apr-Dec) or 6962/.75 = 9282 CFS (annualized)
- 2. Current 2008:

11,770 CFS

3. CFS Growth:

11,770/9282 = 1.27 or 27% growth in 14 yrs.

4. Average Annual CFS Growth:

27%/14 yrs. = 1.93% avg. CFS growth per year

- a. Note 1: Fluctuations occur in CFS each year. Based on actual years studied CFS growth can be higher or lower. This analysis uses longest study term possible to reduce highest and lowest statistical comparisons, and calculate a reasonable average growth rate.
- b. Note 2: In comparable Police CFS Projection Studies an approximate 2% annual CFS growth rate is typical.

5. Projected CFS Growth:

- a. 5 yr projection @ 1.93% = 10% total CFS growth
- b. 10 yr projection @ 1.93% = 21% total CFS growth
- c. 20 yr projection @ 1.93% = 47% total CFS growth
- d. 30 yr projection @ 1.93% = 77% total CFS growth
- e. 40 yr projection @ 1.93% = 115% total CFS growth

6. Existing Staffing

- a. Sworn officers (full time): 18 = 18 full time equivalent (FTE)
- b. Sworn officers (part time): 1 = 0.33 FTE
- c. Civilian (full time): 5 = 5 FTE
- d. Civilian (part time): 7 = 2.33 FTE

Total Staffing 31 or 25.6 FTE staff

- e. Assume adequate total Officers (18) to population (11,547) ratio = 1.56 Officers per 1000 pop.
- Bureau of Justice statistics (2003) notes average for this population to be 2.0 Officers per 1000 pop.
- g. Assume adequate CFS (11,770) to Officer (18) ratio = 654 CFS per officer.

7. Projected Staffing Growth:

- a. 5 yr. @ 25.6 FTE + 10% = 28.2 FTE staff
- b. 10 yr. @ 25.6 FTE + 21% = 31.0 FTE staff
- c. 20 yr. @ 25.6 FTE + 47% = 37.6 FTE staff
- d. 30 yr. @ 25.6 FTE + 77% = 45.3 FTE staff
- e. 40 yr. @ 25.6 FTE + 115% = 55.0 FTE staff

8. Projected Facility Area:

- a. 5 yr: 28.2 FTE staff @ 260 sf to 300 sf/FTE staff = 7330-8460 GSF
- b. 10 yr: 31.0 FTE staff @ 260 sf to 300 sf/FTE staff = 8060-9300 GSF
- c. 20 yr: 37.6 FTE staff @ 260 sf to 300 sf/FTE staff = 9780-11,280 GSF
- d. 30 yr: 45.3 FTE staff @ 260 sf to 300 sf/FTE staff = 11,780-13,590 GSF
- e. 40 yr: 55.0 FTE staff @ 260 sf to 300 sf/FTE staff = 14,300-16,500 GSF

Note 1: Approximate 260 sf to 300 sf per FTE staff based on published study/recommendation of International Association of Chiefs of Police (IACP).

Note 2: Above area does not include Vehicle Storage/Garage facilities.

Proposed New Carver Police Headquarters Projected Staffing and Facility Analysis June 12, 2009 - Page 3

9. Summary area analysis based on Calls for Service Projection method and existing staffing ratios (1.56 per 1000 pop.)

Study 20-40 yr. facility: a.

11,280 GSF to 14,300 GSF

b. Adding (2) bay vehicle garage: 12,100 GSF to 15,120 GSF

10. Area analysis based on CFS projection method and Dept. of Justice staffing ratios (2.0 per 1000 pop.)

a. Study 20-40 yr. facility: 13,410 GSF to 17,000 GSF

b. Adding (2) bay vehicle garage: 14,230 GSF to 17,820 GSF



PROPOSED NEW CARVER POLICE HEADQUARTERS DRAFT SUMMARY SPATIAL NEEDS ASSESSMENT

October 6, 2009 (Revised)

PUBLIC ACCESS:

Lobby Public Toilets (2) Witness/ Victim Interview and Waiting Room Training/ E.O.C. and Community Meeting Room (+/- 40)	240 Net Sq. Ft. 100 120 860	
	132	0 NSF
OPERATIONS:		
Communications/Dispatch	400 Net Sq. Ft.	
Dispatch Toilet Room	50	
Dispatch Break Room/ Lockers	120	
Watch Commanders Office	240	
Records Office	390	
Sergeant's Office (5)	400	
Copy Work Center	60	
Copy Work Conto	60	

60

1720 NSF

ADMINISTRATION:

Office Supply Storage

Chief's Office/ Lav.	225 Net Sq. Ft.
Deputy Chief / Lieutenant Office	130
Administrative Assistant/Reception	250
Conference Room (10-12)	170
Staff Toilet	50
Shared Special Duty Office (2 Shared Workstations)	160
Community Policing/ Crime Prevention	
DARE/ SRO	
Traffic	
Domestic Abuse	
I.T. Investigations	005 NOE
	985 NSF

INVESTIGATIONS:

Detective's Office (1) (+1 Future)	160 Net Sq. Ft.
Court Officer / Prosecutor's Office	120
Detective's Storage	70
Interview Room	90
The state of the s	440 NSF

DETENTION FACILITIES:

Booking	330 Net Sq. Ft.
Search/ Holding	80
Breathalyzer/ Fingerprinting	60
Interview/ Interrogation/Matron	100
Male Holding Cells (3)	240
Female Holding Cells (2)	160
Juvenile (Non-Status) Holding Cell	120
Juvenile (Status) Waiting Room	80
Shower	50
Booking / Storage Room	50
Sallyport (1 Bay)	440
Secure Garage Bay/ Impound	Exist. Structure
	4740 NOE

1710 NSF

STAFF SERVICES:

Squad/ Briefing Room	240 Net Sq. Ft.
Report Writing	120
Kitchen/ Break Room	240
Patrol Equipment Storage	80
Male Lockers/Lav/ Showers (32)	720
Female Lockers/Lav/ Showers (8)	240
Physical Training	500
Records Storage	Exist. Structure
General Storage	Exist. Structure
Training/ E.O.C. Equipment Storage	120
	2260 NSF

SUPPORT FACILITIES:

Weapons Cleaning/ Servicing	20 Net Sq. Ft.
Armory	120
Evidence Processing	100
Secure Evidence Storage	200
Cruiser Wash/ Maintenance Bay	Exist. Structure
Patrol Bicycles	Exist. Structure
Motorcycle/ Boat Storage	Exist. Structure
Building/ Grounds Maintenance	Exist. Structure
Tactical Equipment storage	Exist. Structure

440 NSF

Proposed New Carver Police Headquarters Draft Summary Spatial Needs Assessment October 6, 2009 – Page 3

UTILITIES/OTHER:

Electrical Room	80 Net Sq. Ft.
Emergency Electrical/ Generator ATS	50
Mechanical Boiler/Sprinkler/ Laundry	180
Mechanical Fan Room (poss. rooftop/attic)	300
Communications/ E911 Room	90
Computer Network Server (MDF)	60
Radio Room	80
Elevator/ Hoistway (2 Fls.)	140
Elevator Machine Room	70
Janitor's/ Supply Room	60
Stairway (2)	720
	1830 NSF
SUBTOTAL SPECIAL NEEDS ASSESSMENT:	10 705 Not Co. Tt

SUBTOTAL SPECIAL NEEDS ASSESSMENT:

10,705 Net Sq. Ft.

Add 30% for walls, structure, circulation, etc.:

x 1.30

TOTAL NEW POLICE BUILDING AREA:

13,920 GROSS SQ. FT.



PROPOSED NEW CARVER POLICE HEADQUARTERS DRAFT SUMMARY SPATIAL NEEDS ASSESSMENT

October 6, 2009

PUBLIC ACCESS:

Lobby	200 Net Sq. Ft.
Public Toilets (2)	100
Witness/ Victim Interview and Waiting Room	120
Training/ E.O.C. and Community Meeting Room (+/- 40)	1000
	4420 NCE

1420 NSF

OPERATIONS:

Communications/Dispatch	300 Net Sq. Ft.	
Dispatch Toilet Room	50	
Dispatch Break Room/ Lockers	120	
Watch Commanders Office	90	
Records Office	120	
Sergeant's Office (5)	400	
Copy Work Center	60	
Office Supply Storage	60	
	1000 NOT	-

1200 NSF

ADMISSION:

Chief's Office/ Lav.	250 Net Sq. Ft.
Deputy Chief	130
Lieutenant's Office (2)	180
Administrative Sergeant	110
Administrative Assistant/Reception	240
Conference Room (10-12)	280
Staff Toilets (2)	100
Shared Special Duty Office (5) ???	400
Community Policing/ Crime Prevention	
DARE/ SRO	
Traffic	
Domestic Abuse	
I.T. Investigations	
	4770 NOI

1770 NSF

INVESTIGATIONS:

Detective's Office (3)	280 Net Sq. Ft.
Prosecutor's Office	110
Detective's Storage	70
Interview Room	90

550 NSF

DETENTION FACILITIES:

Booking	240 Net Sq. Ft.
Search/ Holding	100
Breathalyzer/ Fingerprinting	60
Interview/ Interrogation/Matron	100
Male Holding Cells (3)	240
Female Holding Cells (2)	160
Juvenile (non-Status) Holding Cell	120
Juvenile (Status) Waiting Room	60
Shower	50
Storage Room	50
Sallyport	800
Secure Garage Bay/ Impound	Exist. Structure
Cruiser Wash/ Maintenance Bay	Exist. Structure
	1980 NSF

STAFF SERVICES:

Squad/ Briefing Room	240 Net Sq. Ft.
Report Writing	120
Kitchen/ Break Room	200
Partial Equipment Storage	80
Male Lockers/Lav/ Showers	600
Female Lockers/Lav/ Showers	200
Physical Training	540
Records Storage	Exist. Structure
General Storage	Exist. Structure
Training/ E.O.C. Equipment Storage	120
*	2100 NSF

SUPPORT FACILITIES:

Weapons Cleaning/ Servicing	50 Net Sq. Ft.
Armory	150
Evidence Processing	100
Secure Evidence Storage	400
Patrol Bicycles	Exist. Structure
Motorcycle/ Boat Storage	Exist. Structure
Building/ Grounds Maintenance	Exist. Structure
Tactical Equipment storage	Exist. Structure

700 NSF

Proposed New Carver Police Headquarters Draft Summary Spatial Needs Assessment October 6, 2009 – Page 3

UTILITIES/OTHER:

Electrical Room	80 Net Sq. Ft.
Emergency Electrical/ Generator ATS	50
Mechanical Boiler/Sprinkler/ Laundry	180
Mechanical Fan Room (poss. rooftop/attic)	300
Communications/ E911 Room	90
Computer Network Server (MDF)	60
Radio Room	80
Elevator/ Hoistway (2 Fls.)	140
Elevator Machine Room	70
Janitor's/ Supply Room	60
Stairway (2)	720
	1830 NSF
SUBTOTAL SPECIAL NEEDS ASSESSMENT:	11,550 Net Sq. Ft.

TOTAL NEW POLICE BUILDING AREA:

Add 30% for walls, structure, circulation, etc.:

15,015 GROSS SQ. FT.

x 1.30



PROPOSED NEW CARVER POLICE HEADQUARTERS CARVER, MA

PROBABLE ESTIMATE OF PROJECT COSTS:

Schematic Phase

December 10, 2010

1.	SIT	EV	VO	RK

General Site Work/ Site Development (Allowance) 250,000.

1. Demolition of existing fire structure 37,000.

2. On-site sanitary system 30,000.

GENERAL CONSTRUCTION

Construct 10,438 GSF @ ~ \$230 / SF = a. 2,400,700. b. Renovate 5,018 GSF Exist. @ ~ \$110 / SF =

552,000.

Construct 5,795 GSF Attic @ ~ \$ 90 / SF = 521,600.

Sub Total: \$ 3,791,300.

CONSTRUCTION FACTORS

Study Phase Contingency @ 10% = \$ 379,100.

Sub-Total: \$ 4,170,400.

Escalation to Mid Point Construction (12/11) @ 4% = 166,800.

Sub-Total: \$ 4,337.200.

Construction/ Change Contingency @ 5% = 216,900.

TOTAL PRELIMINARY CONSTRUCTION BUDGET:

\$ 4,554,100.

5. PROJECT DEVELOPMENT

a. Architectural / Engineering Services (per DCAM sched.): 432,000. Project Manager b. 140,000. C. Site Survey By Town. Wetland Scientists d. N/A.

Geotechnical Engineer / Borings 9,000.

f. Legal / Bonding Counsel 100,000. Printing / Reproduction g. 30,000.

Legal Advertising / Bid h. 1,000. Clerk of the Works (See Project Manager)

j.	Construction Materials Testing	25,000.	
k.	Furniture, Fixtures & Equipment (Allowance)	100,000.	
	1) Tel / Data Systems (Est.)	45,000.	
	2) Radio / Antenna Systems (Est.)	30,000.	
I.	Moving/ Relocation Expenses	15.000.	
m.	Commissioning	40,000	
n.	Project Development Contingency @ 5%	50,000.	

Sub Total:

\$ 1,017,000.

PROBABLE BUDGET ESTIMATE OF PROJECT COSTS

\$ 5,571,100.

7. ALTERNATE BIDS

a. LEED Expenses and Construction

TBD

b. Carport

25,000.

8. QUALIFICATIONS

- a. This Estimate of Probable Project Cost is based on Following assumptions:
 - 1. Normal Construction schedule has been used to prepare the Estimate.
 - 2. Premium time costs are not included. Costs are based on forty hour work week, Monday thru Friday.
 - This Estimate is based on prevailing wage rates.
 - 4. No costs are included for disposal or remedial work on contaminated soil.
 - No costs are included for abatement of hazardous materials.
 - 6. Items that could impact this Estimate are:
 - a. Unforeseen subsurface conditions
 - b. Restrictive technical specification
 - c. Non-competitive bid conditions (less than five qualified bids)
 - d. Sole source specification of materials or products
 - e. Delays beyond the project schedule of August 2011 bid date
 - f. Accelerated completion
 - g. Restrictive phasing and extended construction schedule.
 - h. Partial Owner occupancy of Project site.
 - 7. This opinion of Probable Budget Estimate of Project Cost is made on the basis of the experience, qualifications and best judgment of RAI's professional staff. This Estimate is for budget purposes only; actual construction value is determined after the completion of the Construction Documents and the Bid Award process. Variance of +/- 5% of the estimate amount is probable.



PROPOSED NEW CARVER POLICE HEADQUARTERS **EXISTING PLAN REVIEW**

June 16, 2009

Reinhardt Associates, Inc. conducted a professional Plan Review of Schematic Design Drawings for the Proposed New Facility for Town of Carver Police Department, dated April 11, 2006 and prepared by Robert Therrien, AIA. Our review consists of General design efficiency and constructability, preliminary Code review and our own professional experience in similar Police Facility design.

RAI's comments are only preliminary in nature but if accepted in whole would appear to require significant schematic redesign. It is our professional opinion that a more efficient, secure and code compliant Police facility design can be achieved through additional redesign effort.

RAI's scaled building areas from available CAD Drawing files are approximately:

First Floor:

10,180 SF.

New Addition

First Floor:

5,720 SF.

Existing Salvaged/ Renovated Building (Storage Use)

Second Floor: 5,050 SF. **New Addition**

Subtotal Area: 20,950 SF.

Although no Basement Floor Plan was prepared it appears that a Basement was intended by this schematic design for mechanical, electrical, communication, plumbing and fire protection utility space. elevator machine room, etc., therefore RAI recommends verification of ground water elevation to determine appropriateness of proposed Basement Design. Probable Basement Design area could add approx. 4000 SF. to 8000 SF. to overall Building area.

RAI plan review comments follow:

A. **First Floor Review Comments**

- 1. Recommend Conference Room near Lobby with Public Access Door from Public Lobby for Witness / Victim access without entering secure Police areas. Recommend second door from Police side for Witness / Victim to enter Police facility without exposing them to Public.
- 2. No Elevator Machine Room shown on plan.
- 3. No secure way out of Record's Office, no Staff access to records without going through Public Lobby. Possibly consider hi-density file storage option to reduce file storage area.
- Stair landing with exterior doorway (near Records) is +/- 6' above grade, no access 4. possible.
- 5. Juvenile cell not visually and acoustically separate from Adult cells.
- 6. Narrow hall at Booking / Sallyport Door increases Detainee's leverage and Officers physical risk.

- 7. Breathalyzer area not handicap accessible.
- 8. Each holding cell (6) is 6 ft. wide, minimum bunk length is 6' 8" per DPH.
- 9. Holding cell doors should never swing into cell, detainee can block access.
- 10. Watch commander should have access to Lobby (transaction window).
- 11. Can see Dispatch kitchen through Public Lobby window, possible poor appearance issue.
- 12. Entrance Vestibule is not handicap accessible, 7 ft. minimum depth required.
- 13. 110 ft. dead end Corridor in storage wing is a Code violation.
- 14. Three (3) seats per 6' Meeting / Training table is tight, particularly with table legs. Room capacity and dimensions should be verified.
- 15. Chief's Toilet Room may need to be ADA / Handicap accessible.
- 16. There is mechanical duct space through First Floor, presumably there is a Basement. Stairs indicate they go down.
- 17. No mechanical, electrical, fire protection utility spaced indicated, presume Basement intended.
- 18. Indoor shooting range is short distance, expensive, complicated and hazardous.
- 19. Open Administrative Assistant space in enlarged Corridor offers no privacy or security of records/ information, and is busy access point for all storage wing.
- 20. Recommend Watch Commander be closer to Sergeants Office.
- 21. Stairs have 18 risers @ 7' = 10' 6" between floors, leaves less than 1 ft. above ceiling for utilities, ductwork, sprinklers, etc...
- 22. Strike side clearance makes many doors non-handicap accessible.
- 23. Deputy Chief's Office has no windows.
- 24. Stair (near Records) does not appear on 2nd Floor Plan.
- 25. Communications Room does not appear in previous 2005 "Space by Function" list.
- 26. Do not recommend stove in dispatcher's kitchen area.
- 27. Very little mechanical access provided to holding cell fixture piping.
- 28. There is no handicap accessible holding cell lav/toilet fixture shown in men's, women's and juvenile cell blocks. H.C. fixture is much larger and will not fit into existing cell design.
- Detention area shower is not ADA accessible.
- 30. Women officers shower is not ADA accessible.

- 31. Some areas/spaces from "Space Needs" missing on plans.
 - a. 400 SF. Administrative conference room
 - b. 200 SF. Lab/evidence processing area
 - c. 400 SF. Squad/briefing room
 - d. 80 SF. Buildings and ground maintenance room
 - e. 80 SF. Animal control storage
 - f. 100 SF. Volunteer's office
 - g. All utility spaces
- 32. Some areas/spaces shown on plans do not appear in "Space Needs".
 - a. Traffic office
 - b. Domestic abuse office
 - c. IT office/investigator
 - d. Juvenile holing cell

B. <u>Second Floor Review Comments</u>

- 53' dead end corridor is Code violation.
- 2. Training Room area is + 750 SF. = +50 occupants = (2) egress doors swinging <u>out</u>, second exit has to pass in front of first exit and does not qualify as a remote second exit.
- Appears to be a Second Floor exterior door to 4 porch over Staff entrance, problematic detail and waterproofing.
- 4. Men's Room has no urinals.
- 5. Switch Janitor's Room with Storage room so plumbing is condensed.
- 6. High visitor / community contact offices should be closer to public entrance (Traffic, D.A.R.E., Community Policing, etc.) so public doesn't traverse secure building areas.
- 7. Only (16) Men's Lockers provided with little room for growth.
- 8. No need for Second Floor Elevator Lobby, will be Code issue if locked.
- 9. There appears to be too many showers for Men (4) and Women (2) for anticipated use.
- 10. Detectives office has 3 desks and there is a separate Prosecutor's Office, this differs from "Space Needs".
- 11. Officer's lockers should be near Officer's Building entrance for convenience/efficiency.

C. <u>Site Plan Review Comments</u>

- 1. Visitors parking is split 4 spaces each side of Building requiring visitors to exit site onto Route 58 if visitors spaces filled, and re-enter opposite Visitor's parking area. Recommend one unified Visitors' parking area.
- 2. Staff entrance should be re-labeled to rear Building entrance nearest staff parking area.
- 3. Drive though Sally Bays are convenient for Officers but also require more site area for vehicular access, aprons and vehicle circulation. Based on existing limited site area and dimensions we recommend studying non-drive through Sallyport Bay option.

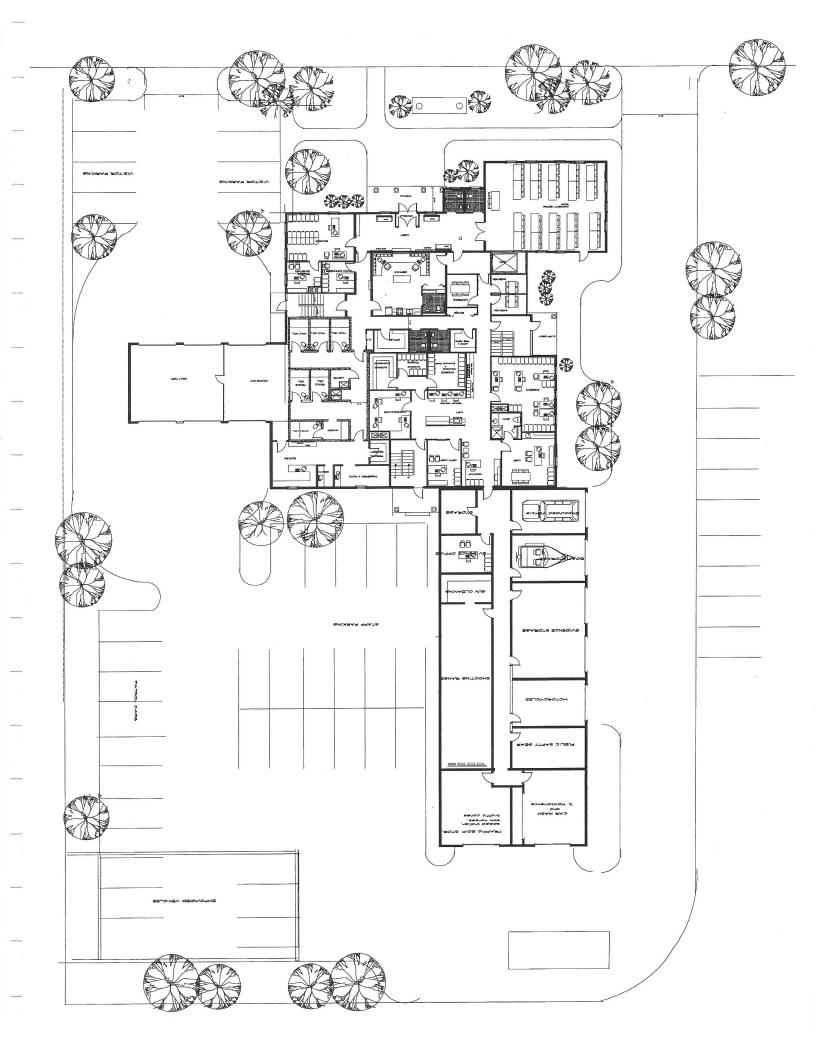
4. Impounded vehicle area (fenced) is in a visually exposed area with no space for landscape screening/barrier.

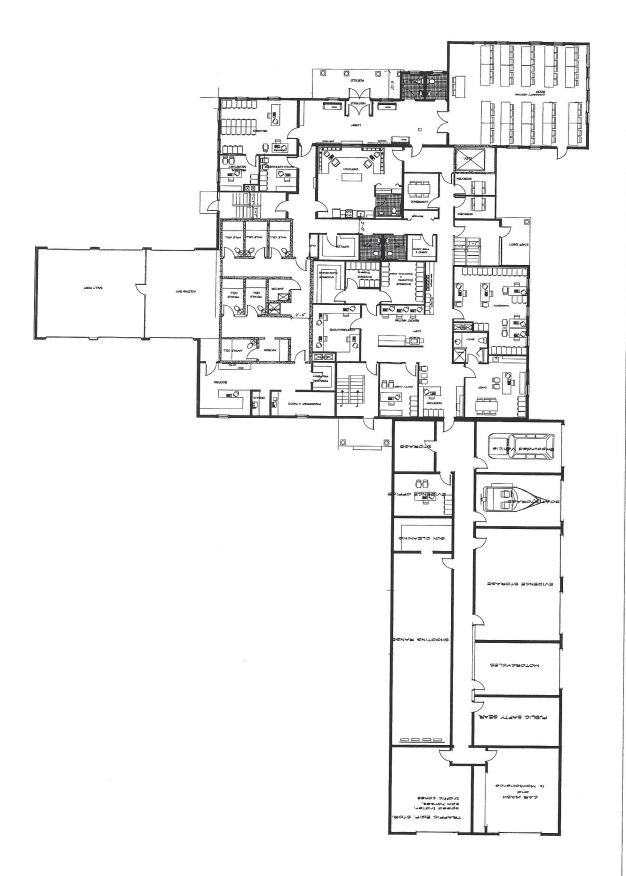
D. <u>Exterior Elevation Review Comments</u>

1. Narrow Sallyport wing would have low roof and ridge line and is not shown correctly on exterior elevations.

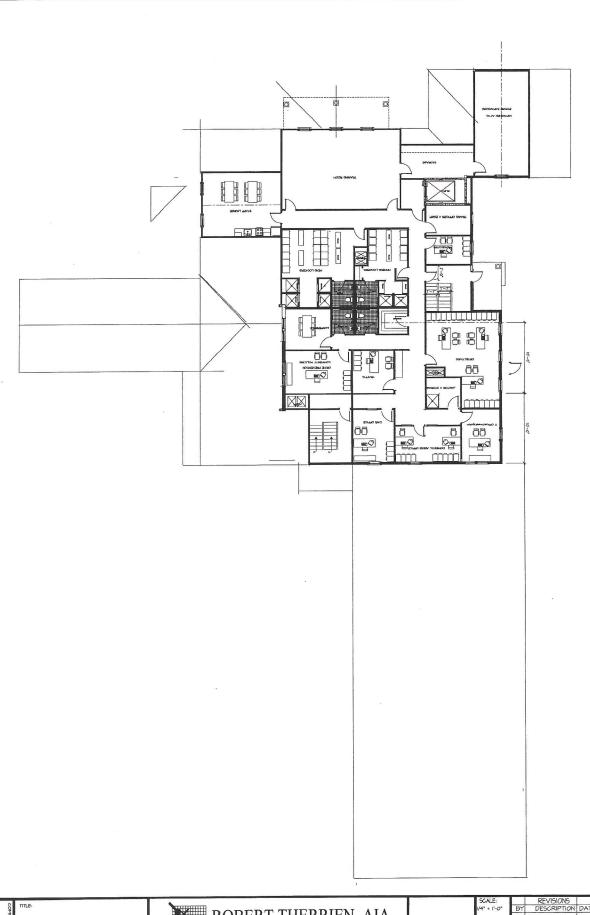
E. <u>CAD Drawing Review Comments</u>

 CAD Drawing files appear to have multiple lines for every object, all offset by fraction of an inch. CAD Drawing files cannot be reused for development of any final Construction Drawing.









ROBERT THERRIEN, AIA

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PROPOSED NEW PACILITY FOR
TOWN OF CARVER FIRE
DEPARTMENT

TOWN OF CARVER FIRE
DEPARTMENT

TOWN OF CARVER FIRE
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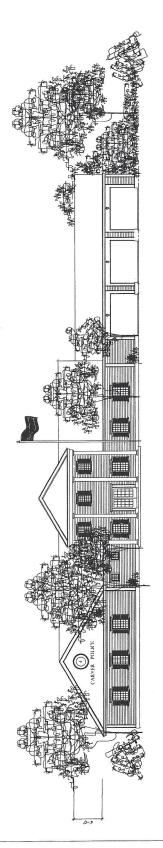
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TOWN OF CARVER FIRE
DATE

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FRONT ELEVATION



