FINAL REPORT

Pembroke Municipal Needs Study

prepared for the

Town of Pembroke



October 2, 2006

CBI/RDA

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

This "Municipal Needs Study" involving the town-owned buildings on the town center municipal campus is the result of a commitment by the Town of Pembroke, acting through the Pembroke Community Center Task Force, to evaluate existing conditions in various town departments and to identify options to address both current deficiencies and future needs.

Task:

In the Fall of 2005 the architectural firm of CBI Consultants, Inc., with associated architect Raymond Design Associates, Inc. was retained by the Town of Pembroke to conduct a programmatic and structural analysis feasibility study involving the Pembroke Town Hall, Pembroke Police Department and Pembroke Community Center Building. The CBI/RDA team was charged with the following tasks:

- Examine the current and projected space needs for municipal and police department offices
 and the suitability of existing facilities to meet those needs.
- Make recommendations as to the feasibility of renovating and expanding the existing municipal and police facilities.
- Make recommendations as to the feasibility of incorporating the community center building as part of a solution to the town's municipal and police department needs.
- Examine the potential for disposing of the community center and/or police department and/or the town hall for some other private-sector use.
- Provide a projection of costs associated with any proposed alternatives.
- Make specific recommendations as to how to best maintain the existing community center building in the interim.
- Compile a report documenting the work of the study.

As the study progressed, the study team was asked to program future space needs for the Counsel on Aging and to incorporate space for this department into the overall long range planning study.

Existing Departmental Layouts:

Study team members visited each of the four buildings under consideration (Town Hall, Police Department, Community Center, and Senior Center) and took measurements to verify the existing configuration of each building, and all of the internal spaces within it. In addition, department heads were interviewed to specifically identify what each space is currently being used for.

The result of this work is a series of floor plan diagrams that accurately depict existing square footages, uses, and adjacencies. These square footage and building layout diagrams can be seen under the 'Existing Conditions' section of this report. These diagrams were used by the study team to assist in departmental needs assessments, programming, conceptual planning diagrams, and project cost estimating.

In addition, the study team was able to document the overall site plan of the Town Center Campus by use of aerial photography and other available documentation. Property line layouts from the Assessor's office and mapping related to wetlands and other regulated resources were overlaid onto the aerial photographs and served to define broad-based limits for the conceptual site planning that followed.

Municipal Space Needs:

An integral component CBI/RDA's assignment was to provide the study committee with twenty-year space needs projections for those municipal departments that might be housed on the Pembroke Center municipal campus. This was accomplished by reviewing various documents provided by the study committee and conducting extensive interviews with administrative staff at the following departments:

- Police Department
- All Town Hall Departments, including DPW
- Recreation Department
- Council on Aging

Library staff was not interviewed as part of this study. The Library facility is fairly new and is sized to meet the town's immediate future needs. Other 'community groups' (i.e. food pantry, Pembroke Youth Hockey, Center Pre-School, etc.) that are currently housed in the Community Center building were not interviewed, however square footages equivalent to the square footage these groups currently use was integrated into our 'Community Use' space needs program for use in the planning process.

Using the 'as-built' plan layouts, study team members met on multiple occasions with administrative staff at each individual department to discuss existing programmatic or square footage shortfalls and to identify future space needs. Discussions covered projected future staffing levels, spaces required to implement the department's mission within the town, adequacy of existing work stations, storage needs, parking needs, degree of interaction with the public, and appropriate departmental adjacencies. Based upon extensive experience in other municipalities, study team members assisted department heads in compiling a 'space needs program' documenting all of the spaces deemed necessary to house their future needs and then assigned square footage figures to these spaces. These programs compared all of the spaces and staffing levels that administrators were dealing with at the present time with those that they were projecting into the future. These future staffing projections and square footage requirements are documented in the detailed 'Space Programs' contained in Section 3 of the report.

Without exception, all of Pembroke's municipal departments will require additional space for administrative, meeting, storage, or programmatic space in the future. Many of the needs are immediate, especially at the Police Department, Council on Aging, and Recreation Department. Though the additional square footage need for Town Hall is not as acute (a significant portion of the projected additional square footage is for meeting space), many individual departments, such as the Board of Health, are in desperate need of additional square footage immediately.

| | | Existing Dept. SF | 20-Year Projection | Additional Net SF Req'd | Additional Gross SF Beyond F | | Exist'g |
|---|-------------|--------------------|-----------------------|----------------------------|---------------------------------|-------------|-----------------|
| • | Town Hall | 8,369 net sf | 12,388 net sf | 4,019 net sf | 43% | 5,652 gross | |
| 0 | Police Dept | 6,415 net sf | 13,940 net sf | 7,525 net sf | 113% | 10,913 gros | s sf |
| 0 | Recreation | 7,016 net sf | 12,906 net sf | 5,890 net sf | 83% | 8,304 gros | s sf |
| 0 | COA/Seniors | 4,105 net sf | 9,160 net sf | 5,055 net sf | 144% | 6,760 gros | <u>s sf</u> (2) |
| | | 25,905 nsf | 48,394 net sf | 22,489 net sf | | 31,629 gro | ss sf |
| • | Community | 18,040 net sf | (tbd) | (tbd) | | (tbd) | (3) |

- (1) This additional gross square footage is beyond that contained within the two existing floors and what is assumed to be a renovated attic at Town Hall. If the attic is not 'built-out', carry 9,452 additional gsf to house Town Hall's future needs.
- (2) This additional gross square footage assumes that the Senior Center is built to house Pembroke's future needs, but is not built as large as would be needed to qualify for state construction grants. Council on Aging staff articulated to the study team that a building housing 28,800 gross square feet may be required to qualify for such a grant. If built to this standard, the additional gross square footage required beyond existing would be 24,110 gsf, or 614% larger than the existing building.
- (3) Current community uses housed at the Community Center building include: Pembroke Youth Hockey Bingo, Center Pre-School, Food Pantry, Adelphi Cable Studio, Community Toy Room, Pembroke Disability Commission, and storage for Ted Williams Baseball and Pop Warner Football. It is unclear as to exactly how much square footage should be provided for these groups going forward.

Suitability of Existing Facilities to Meet Future Space Needs:

With the exception of the Community Center building, none of the other buildings under consideration contain adequate square footage to meet the future space needs of the departments they currently house. And, even though the Community Center building does contain the necessary square footage for an expanded Recreation program, such an expansion would come at the expense of other 'community uses' currently housed there.

The previous table demonstrates just how short the Town Hall, Police Department, and Senior Center buildings fall in their ability to provide square footage for the programmatic needs identified as part of this study. Of these three however, the Town Hall is the most suitable in terms of meeting future space needs.

Pembroke Town Hall

The Town Hall building is in good condition. With the exception of minor painting projects, there is very little work is required on the exterior of the building. The interior is also in good condition and, absent any major addition or renovation projects; it is suitable for continued use without any required code upgrades. Examples of code upgrades that would be required in the event of a renovation project include the installation of fire rated doors at offices opening up to the internal 'atrium' and improvements to more fully comply with handicap accessibility regulations.

The attic level of the Town Hall could be built-out as office or storage space without major upgrades to the structural floor system. As one can imagine however, the roof of the building would require significant structural work in order to install dormers for head height and windows. Given the existing structural system, this is feasible without excessive work. The elevator shaft would have to be extended to the attic level and a second exit stair would have to be built on the exterior of the building to provide code-required egress.

Typical upgrades to mechanical and electrical systems would be required in the event of a renovation or expansion, though again, there is nothing regarding upgrades of these systems that would render the building unsuitable for future use, renovation, or expansion. These upgrades would include the installation of a fire protection system (sprinklers), a new HVAC system to replace antiquated heat pumps, address the need for mechanical ventilation (operable windows are the only source of ventilation), heating shortfalls and automatic temperature control. Electrical upgrades would include the installation of additional power outlets (though the service is adequately sized) and an upgraded addressable fire alarm system.

It is the opinion of the study team that the Town Hall building is clearly suitable for contributing towards the town's future space needs.

Pembroke Senior Center

As currently configured, the current Senior Center building/site is not adequate to meet future needs. The existing building is grossly undersized and there is little room for its expansion on the site. Parking is extremely limited and this problem would be exacerbated significantly if the building (and by extension, its programs) were to be expanded significantly. It is the study team's recommendation that an appropriate site be identified for the long-term needs of the Council on Aging/Senior Center, whether as part of the Town Center Campus, or at another location.

On the positive side, the current Senior Center site is located at the edge of the Town Center Campus and it directly abuts the commercial center of town. As such, it is a prime candidate for sale should the town wish to consider such a move. The site also directly abuts the new library and it could be held in reserve to provide for future expansion of the library parcel.

Pembroke Police Station

As is the case with the Town Hall and Senior Center, the Pembroke Police Station is also grossly undersized in comparison to its present and future programmatic needs. In addition to its small size though, it has other significant issues that make it an unlikely candidate for renovation and expansion. The most important of these is the make up of the structural system, which is not designed to meet current codes related to public safety facilities in the event of a natural disaster such as a hurricane or earthquake. The building would have to be almost completely stripped and rebuilt to meet current code requirements for lateral loading and structural stability.

The Police Station is of a similar vintage as the Town Hall and suffers from some of the same mechanical and electrical issues. Given its public safety function however, these issues are much more acute than they may otherwise be at Town Hall.

The building lacks a mechanical ventilation system and sprinkler system. The heating plant is antiquated and of 'residential' quality. The emergency generator is in poor condition and the

emergency transfer switch and distribution panels for emergency power are not housed in properly fire-rated enclosures. The 911 system is installed in a non-fire rated spot in the basement. The main electrical service is sized at approximately half of what would be specified in a new station of the same size, and all emergency lighting, closed circuit tv, lighting, and power distribution systems should be replaced. Finally, the building lacks a main distribution frame room for radio equipment, telephone recording equipment, servers, paging system equipment, the telephone system and all of the other specialized equipment typically found in a modern police station.

Even if these numerous 'physical plant' issues were to be addressed, the building is still not a strong candidate for addition/renovation. Given the specialized and safety-related nature of police work, it would be very difficult and expensive to upgrade and expand the existing building for police station use while maintaining continuous and functional public safety services. The communications center would have to remain operational throughout, as would most of the other police functions. The exception might be the cellblock, but the cost of transporting to, and overseeing prisoners housed in other communities during the construction period are excessive. The construction of temporary facilities to house these needs is also excessive. Under any scenario, the project costs for these

'extra' issues would make the cost of renovation probably as much, if not more, expensive than the construction of a new station.

While it may be theoretically and technically possible to construct an addition to the rear of the existing building, this addition would most likely result in a layout that lacks functional and operational efficiency. By nature of the required construction phasing, the addition would have to include specific functions such as a new communications center and cellblock in order to allow the existing facilities to remain active during the construction period. By requiring such disparate functions to be housed in the addition, it is probable that the station would end up larger than a new facility would and would have to make compromises in regard to internal 'flow' and functionality.

Though issues involving the complexity of construction phasing and the existing station's wood framed construction type could be addressed, most police stations that are in need of such significant physical plant and programmatic upgrades are constructed new. This is mostly due to the short and long-term issues and costs involved with construction phasing. Given the Pembroke's need and the status of the existing station, it is the opinion of the study team that the existing police station is not suitable to meet the future needs of the police department.

Pembroke Community Center

Though the community center building contains adequate square footage to serve many of Pembroke's needs, it is in dire need of repairs and upgrades to its physical plant systems if it is to continue its service to the town into the future.

The building is structurally sound and, given its available square footage and its place in Pembroke's history, it is a viable candidate for renovation and continued use.

The 'front' portion of the building is the original early 20th c. school structure consisting of a single story classroom and office wing fronting on a well-used and popular common with a bandstand at one end. This original portion of the building contains approximately 14,000 gross square feet of space. To the rear of the original classroom wing are a 'gymatorium', complete with stage, and some minor storage and mechanical spaces in a lower level. The 'rear' wing is comprised of a two-

story addition added onto the side of the original school. It contains approximately 20,000 gross square feet.

As part of a long-term renovation project, entire components of the exterior envelope system should be replaced, including roofing, windows, doors and all trim. The entire exterior masonry wall system should be repointed and cleaned as well. All interior finish systems, including ceilings, floors and walls require repair and replacement. All mechanical and electrical systems have far exceeded their useful life expectancy and should be replaced in their entirety. The building requires the installation of an elevator and a complete upgrade of all handicap accessibility systems.

In the absence of an expeditious start to an extensive renovation project, immediate short term stabilization projects should take place to halt the deterioration of the building. These include replacement of the roof over any portion of the building scheduled for future use, the repair of the existing roofing system in areas of the building subject to future demolition, the replacement of rotted wood trim and gutter/downspout systems, replacement of wood trim on existing wood windows and sealing the perimeter frame of existing metal windows, the sealing of masonry cracks and repair of damaged masonry, and the replacement of the existing wood handicap ramp.

The approximate construction cost of these temporary stabilization projects is \$332,000 in 2006 dollars. An appropriation of \$450,000 in 2006 dollars would be required to cover the construction costs plus additional project related design, contingency and expense costs.

Site Issues - Pembroke Town Center Campus

The Pembroke Town Center Campus is made up of contiguous town-owned parcels in excess of forty acres in size. It contains many municipal buildings, including, the Town Hall, Library, Police Station, Senior Center, Community Center, School Department Collaborative, Historical Society, and GAR Hall/Boys Club.

The parcel appears to contain wetlands, though the floodplain along Herring Brook to the rear does not impact any development on the site, and there appears to be enough 'upland' available for building, parking and recreational needs as identified to date. A review of state wildlife mapping has revealed that there are no areas of critical environmental concern or 'natural heritage' issues such as habitat for endangered wildlife or plants. In depth site analysis by a botanist is required to delineate the edge of any wetlands or other resource areas as part of any further study on this parcel.

The Town Center Campus is served by town water and makes use of various on-site sewage disposal systems. Documentation regarding the on-site sewage disposal systems is 'sketchy', but it appears that all three buildings are connected, either directly, or via an overflow system to each other. Further, all three systems require frequent pumping which indicates that they need to be replaced at some point in the near future.

Since it is a contiguous site, it is considered as 'one lot' under Massachusetts DEP regulations and all of the town-owned buildings would have a limit of 10,000 gallons per day of subsurface sewage disposal with conventional systems. Should flow exceed this 10,000 gallon limit, a subsurface groundwater discharge permit and treatment will be required. Depending upon the flow calculations for whatever the town decides to construct, the campus will be close to, or over, the 10,000 gallon threshold. Flow rate variances may be sought based upon actual flows and the study

team has been successful in securing such relief on previous similar projects. Final determination regarding the need for sewage treatment will have a significant impact on project budgets going forward and are worthy of continued and detailed study.

The possibility exists to create a town-owned treatment plant somewhere on the Town Center Campus and to open up sewage capacity to businesses and residences in the adjoining area. This may have positive economic impacts to the town and is also worthy of continued study.

Storm water drainage systems would need to be upgraded to meet current regulations as part of any significant site development.

It is the opinion of the study team that the Town Center Campus is suitable for future development on the scale of what has been projected to date for Pembroke's future needs.

Feasibility of Renovating and Expanding Existing Town Hall and Police Facilities:

It is easy to imagine renovation and expansion of the Town Hall building to meet existing and future space needs for office, storage, and meeting rooms. It contains an 'unfinished' attic that could provide up to 3,800 net square feet of program space and there is adequate space to each side of the existing building for additions and expanded parking.

Though it is feasible to expand the existing police station, it is the study team's opinion that it is neither desirable, nor cost effective to do so.

<u>Feasibility of Renovating the Community Center Building as a Solution to Pembroke's Town</u> <u>Hall and Police Department Needs:</u>

With approximately 34,000 gross square feet of space available, it is clear that adequate space exists within the Community Center building to contribute significantly to Pembroke's future Town Hall or Police Department space needs. The Town Hall space program calls for 18,582 gross of to meet future needs and the Police Department space program calls for 20,213 gross of. In total, these two uses would exceed available square footage by almost 5,000 gross of. This shortfall could be made up by building an addition if it were determined that these two uses are both best served by being housed in the community center building. Under such a scenario, both the existing Town Hall and the existing Police Station buildings would be available for other municipal uses or sale.

Many former school buildings have been successfully converted to beautiful and effective town office buildings and the Community Center building would fit right into this mold. Fronting on the common and presenting a historical facade to Center Street is appropriate. Former classrooms would easily convert to office and meeting space, allowing for flexibility in the floor plan layout. The former auditorium would be an effective public hearing room.

Renovating the building for police station use would present challenges similar to those faced in renovating and adding onto the existing Police Station, with the exception that the difficult phasing issues would be avoided. The logical location for the police department would be in the 'rear' wing, allowing parking and access to the 'working' portions of the building for staff and cruisers, while presenting the business face to the street. The expense of renovating the existing community

center to meet structural and building system requirements would be expensive, again, probably rivaling the expense of building from the ground up.

Renovating the Community Center building for use as a town hall or police station is viable; however, it is the opinion of the study team that a town hall use would be a more natural fit.

Conceptual Design Options:

Working in conjunction with the Community Center Task Force, the study team explored six different master plan concepts (A - F) and four sub-options to meet Pembroke's municipal building needs going forward well into the future.

These concepts included options that minimized new construction in favor of renovations and additions, engaged aggressively in new construction, split town hall between two buildings, moved town hall, moved the police, moved the seniors, maintained separation between recreation and seniors, combined recreation and seniors, maintained and eliminated outside lease income, sold off portions of town-owned property, and either housed many of the community uses or almost none of them!

| | | Municipal Offices | Police Dept | Senior Center | Recreation Dept | Community Uses |
|---|------------|----------------------------------------|--------------------------------|--------------------------------|-----------------------------------|------------------------------|
| • | Option A.1 | add/reno incl attic | add/reno | upper cc | upper cc gym addt'n | lower cc senior ctr |
| • | Option A.2 | add/reno n/i attic | new bldg behind pd | upper cc | upper cc gym addt'n | lower cc sell senior ctr |
| • | Option B | reno + reno pd no attic no addt'n | rear upp'r cc rear low'r cc | new bldg sr ctr only | upper cc front gym addt'n | upper cc front senior ctr |
| • | Option C | reno + reno lw'r cc no attic no addt'n | new bldg behind pd | upper cc | upper cc gym addt'n | sr ctr |
| • | Option D | reno up'r cc reno lw'r cc | new bldg behind pd | reno t hall | upper cc gym addt'n | sr ctr |
| • | Option E.1 | reno up'r cc reno lw'r cc | reno t hall addt'n t hall | new 1 st bld'g share w/ rec | new 1 st bld'g share w/ sr ctr | |

E.1 note: Sell existing senior center building

• Option E.2 reno up'r cc reno t hall new 2 st bld'g new 2 st bld'g lower cc reno lw'r cc addt'n t hall share w/ rec share w/ sr ctr police dept

E.2 note: Sell existing senior center building

Option F.1 reno up'r cc reno t hall new 2 st bld'g new 2 st bld'g former addt'n cc addt'n t hall share w/ rec share w/ sr ctr police dept

F.1 note: Sell existing senior center building and demo rear wing of existing community center bldg

• Option F.2 reno up'r cc new bldg new 2 st bld'g new 2 st bld'g new rec/sr ctr addt'n cc behind pd share w/ rec share w/ sr ctr

F.2 note: Sell existing town hall and senior center. Demo rear wing of existing community center bldg and demo existing police station to make way for parking

• Option F.3 add/reno new bldg new 2 st bld'g new 2 st bld'g new rec/sr ctr behind pd share w/ rec share w/ sr ctr

F.3 note: Demo existing police station and entire existing community center bldgs to make way for parking. Sell existing senior center.

After review of 'pros and cons' for each of these initial master plan concepts, the Community Center Task Force eliminated Options B, C, and D as unwieldy or unwise and asked the study team study Options A, E and F in greater detail and to provide conceptual budget estimates for what were now considered 'viable development options'.

Conceptual Cost Estimates:

'Order of magnitude' conceptual budget estimates were developed by the study team for each of seven 'viable development options'. Given the conceptual nature of the study, square footage allowances were assigned to various master plan scenarios based upon building types, scope of new construction, scope of renovations, and potential construction phasing issues. Inflation figures were not assigned to account for the order of construction (i.e. various buildings within the same option being constructed over time).

Project cost multipliers were added to the value of the construction estimates to account for additional project-related expenses such as design fees, contingencies, furnishings and equipment, etc. All of the master plan options contained an allowance for a new municipal sewage treatment plant on the campus. In those options in which it was deemed acceptable, an allowance was carried for the proceeds that would return to the town due to the sale any town-owned buildings.

The 'turn-key' project cost estimates ranged from a low of \$26,196,263 (Option F.2) to a high of \$30,669,900 (Options E.1 and E.2). It should be noted however that Option F.2 included the sale of the existing town hall and the senior center, which accounted for \$1.9 million in savings. In general, the study team would advise the Town to budget approximately \$28 million in 2006 dollars to meet the capital needs of municipal departments going forward.

Preferred Conceptual Design Options:

Of the ten conceptual design options explored as part of this study, the Town Center Task Force is most comfortable at this point with the broadly defined scenarios contained in the 'Option F' series, though it should be noted that many questions remain to be explored, including the overall magnitude of the project in terms of square footage and cost.

All three of the 'F' options recommend the construction of a new 'Pembroke Community Center' to house the combined needs of the Recreation Department, Senior Center and various community uses. A two story building is recommended, nestled into the hillside on the playfield below the existing community center building. The two-story concept allows for programmatic separation between the Senior Center and the Recreation Department, while allowing the two departments to share flexible program space such as a gymnasium, meeting rooms, etc as they see fit. The Senior Center would be housed on the upper level, accessible from the existing parking lot. The Recreation Center would be housed on the lower level, directly adjacent to the gymnasium and existing playfields. Program integration at community centers in other Massachusetts communities has proven extremely successful and fostered inter-generational activities and interaction. This facility could easily be designed to maintain the town's lease relationship with Pembroke Youth Hockey, with gymnasium and/or other spaces made available for bingo nights.

Options F.1 and F.2 call for the Town Hall to be moved to the original section of the existing community center building and for the removal of the rear addition to improve site lines and traffic flow to the rear of the site where the new Community Center is to be constructed. Option F.3 envisions an addition/renovation project at the existing Town Hall building and the complete demolition of the existing community center building. This could provide additional space for a potential expansion of the town common.

Option F.1 envisioned an addition/renovation project at the existing town hall to house the Police Department. This is a viable solution to the phasing issues associated with the construction of an addition/renovation project at the existing police station, but is not as 'clean' as the construction of a new station, as is called for under Options F.2 and F.3.

Option F.1 allows for community use of the existing police station, while options F.2 and F.3 require its demolition.

The phased implementation of the master plan construction projects is acceptable under any of the 'F' scenarios, but probably most advantageous under Option F.3. Under Option F.3, any one of the projects can be undertaken as the first in a series. The construction of the new Police Station or the new Community Center does not depend on the completion of any other project. The addition/renovation of the Town Hall could also be initiated on an 'as-needed' basis, though it might be easier for staff to live through if it were initiated after the existing community center was empty and could be used as temporary quarters prior to its demolition.

Under Options F.1 and F.2, the conversion of the existing community center into a Town Hall would require the construction of the new Community Center prior to starting in on the Town Hall project.

Recommendations:

The magnitude of the potential work on the Town Center Campus and its impact on the Town of Pembroke is immense. As occurs with many such master planning studies, the major issues have been identified as part of this report and the need for additional work exists to explore the numerous detailed issues that were beyond the scope of this study and the questions that are bound to arise as the public digests the implications of the needs. These issues and questions include the following:

- The scope of this study has identified programmatic and square footage needs for Pembroke's municipal departments going forward well into the future. In conjunction with this programming effort, the study team identified a series of preferred master plan options for long-term construction on the Town Center Campus. Though a preferable master plan seems to be emerging, it has not been subjected to rigorous public debate, nor can alternative scopes of work be ruled out. Municipal staffing and program needs should be subjected to detailed review and analysis. These reviews will impact the required square footage and therefore the cost of the master plan.
- Prioritization of needs should be discussed. Which project needs to be constructed first
 and why? What is an acceptable timeline for phased construction and where does it fit into
 the town's capital plan?
- The degree of integration or separation of a new Senior Center with other community activities including recreation should be explored in more depth. The Counsel on Aging is currently pursuing funding for construction project. While the scope of this project may adequately address immediate 'short term' needs, it is the opinion of the study team that the town's long term needs for the Senior Center can not be met on the existing site. Questions then arise: Where is the best location in town for a larger Senior Center? Should it be located on the Town Center Campus? Are there programmatic or fiscal advantages to combining it with other programs in a single Community Center as Option 'F' anticipates?
- How much square footage (if any) should be made available for 'Community' groups within the Town Center Campus, and which groups in particular should be provided for? What is the cost of this space and how should it be paid for?
- Sewage disposal and the potential for integrating municipal needs with private commercial development in Pembroke Center is another far-ranging discussion that needs to take place. Both technical and financial questions abound. Wetlands should be delineated, soils should be tested, and financial models should be constructed.

- Schematic floor plan layouts of individual projects and outline material specifications should be created in order to more accurately prioritize needs and evaluate the cost of various options.
- Phased construction implementation schedules should be agreed upon to allow for more accurate capital planning.
- The existing Community Center Building is in dire need of work to maintain its viability as
 a public building. Short-term maintenance projects as discussed earlier in this report
 should be instigated immediately to prevent further damage to the building's infrastructure.

Project Cost Overview of Viable Development Options

Pembroke Community Center Study CBI/RDA Architects

August 10, 2006

(Revised from July 12, '06 Draft # 3 for inclusion in final report)

| Construction Project Cost | Cost 35% ZUUD A.1 Pros SF 2006 \$/sf Multiplier Project Cost A.1 Pros | \$ 250 \$ 88 \$ 1,282,500 second lowest cost \$ 225 \$ 79 \$ 3,927,488 could sell senior ctr to defray \$ | 275 \$ 96 <u>\$ 742,500</u> \$ 5,952,488 | site 9300 \$ 300 \$ 1,30 \$ 3,999,000 site reconfiguration limited at pd site reconfiguration limited at pd site reconfiguration limited at cc 11000 \$ 350 \$ 123 \$ 5,197,500 disrupt hockey lease income 20300 | Site 12100 \$ 225 \$ 79 \$ 3,675,375 upper) 12100 \$ 250 \$ 88 \$ 2,193,750 6500 \$ 250 \$ 88 \$ 2,193,750 \$ 5,869,125 | Site 11450 \$ 225 \$ 79 <u>\$ 3,477,938</u> 11450 \$ 3,477,938 | 3730 \$ 175 \$ 61 <u>\$ 881,213</u> 3730 \$ 881,213 3730 \$ 881,213 Site | S S S S S S S S S S S S S S S S S S S |
|---------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | 6 6 | € | ↔ ↔ | 69-69 | ↔ | <i>⊌</i> > <i>⊌</i> | e de la companya de l |
| (Revised from July 12, '06 Draft # 3 for inclusion in final report) | Accommodations | Ĭ | addition | Police Station Site renovations | Community Ctr Site renovations (upper) | s Community Ctr Site renovations (upper) | ŏ ŏ | Shared Sewage Treatment Facility 81,810 Total Budget Estimate of Project Costs (2006 dollars) |
| (Revised from July 1 | Department | A.1 Town Hall 18582 gsf programmed | 2 | Police 20213 gsf programmed | Recreation 18197 gsf programmed | COA/Seniors 11450 gsf programmed | Community 25436 gsf programmed | Shared Sewage Tr Total Municipal SF Total Budget Estim |

September 20, 2006

Project Cost Overview of Viable Development Options

Pembroke Community Center Study CBI/RDA Architects

August 10, 2006

(Revised from July 12, '06 Draft # 3 for inclusion in final report)

| Deg | A.2 Town Hall 18582 gsf programn | Police 20213 gsf pro | Recre 18197 1979 1979 | COA/ 11450 gsf pro | Comr 25436 gsf pro | | Sha Tot | Tot |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------|----------------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| sed from July 12, or | Town Hall 18582 gsf programmed | Police 20213 gsf programmed | Recreation 18197 gsf programmed | COA/Seniors 11450 gsf programmed | Community 25436 gsf programmed | | Shared Sewage Tr Total Municipal SF Total Budget Estim | al Municipa = Available |
| Department Accommodations Gro | Town Hall Site finish attic renovations addition | Police Station Site new building | Community Ctr Site renovations (upper) addition | Community Ctr Site renovations (upper) | Senior Center Site renovations | community of site renovations (lower) | Shared Sewage Treatment Facility Total Municipal SF Total Budget Estimate of Project Costs (2006 dollars) | Total Municipal GSF Programmed GSF Available for Community Uses |
| Gross SF | 0 12930 <u>5800</u> 18730 | <u>20300</u> 20300 | 12100 6500 18600 | 11450 | 3730 3730 | 0006 | 81,810 2006 dollars) | 68,442 13,368 |
| Constructio Cost 2006 \$/sf | ₩₩₩ | ↔ | ↔ ↔ | € | ↔ | ↔ | gsf | gsf |
| Construction Cost 2006 \$/sf | 250 225 275 | 350 | 225 | 225 | 175 | 175 | | |
| Project Cost 35% <u>Multiplier</u> | \$ \$ \$ \$ 29 \$ 49 \$ 60 | \$ 123 | \$ 28 | \$ | \$ 61 | \$ 61 | | 73 |
| 10 (1) | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | € € | es es es | φ φ | ↔ | ⇔ | € > € | |
| 2006 Project Cost | 3,927,488 2,153,250 6,080,738 | 9,591,750 | 3,675,375 2,193,750 5,869,125 | 3,477,938 | 881,213 | 2,126,250 | 400,000 | |
| A.2 Pros | easier to phase than A.1 best pd flow layout possible avoids pd living thru renov's could sell senior ctr to defray \$ potential for site reconfig at pd | | | | | Sec. | | |
| A.2 Cons | town hall living through renovs recreation living thru renovs slightly higher cost than F site reconfiguration limited at cc disrupt hockey lease income | | e 6.2 | | * | 900 2 | | |
| | | | | | | | | |

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Pembroke Community Center Study

Project Cost Overview of Viable Development Options

Pembroke Community Center Study CBI/RDA Architects

August 10, 2006

(Revised from July 12, '06 Draff # 3 for inclusion in final report)

| | | 8 | D. | | | | av. | | | |
|---------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Æ | E.1/E.2 Cons | highest cost highest extra 'community' sf too much town hall sf site reconfiguration limited at cc | can hold all existing commty uses pd design flow may be limited | | | | | | | |
| | E.1/E.2 Pros | good phasing (new cc bldg) continuous hockey income could sell pd to decrease \$ potential for site reconfig at pd | can hold all existing commty us | | | × | | (400,000) appraisal needed | | N. |
| 8000 | Project Cost | 6,075,000 | 5,559,900 3,591,000 9,150,900 | 6,075,000 | 3,864,375 | 2,197,125 | 2,362,500 945,000 3,307,500 | (400,000) | 400,000 | |
| | ها | க | so so so | ₩ ₩ | ↔ ↔ | € € | ↔ ↔ | ↔ | ө | |
| Project Cost | Multiplier | 79 | 130 | 88 | 88 | 61 | 6 1 | | | |
| | -1 | ₩ | φ φ | ↔ | ↔ | € | ↔ ↔ | | | |
| Construction | 2006 \$/sf | 225 | 300 | 250 | 250 | 175 | 175 | | | V- |
| ပိ | N | €> | ₩ ₩ | €> | € | ↔ | \$ \$ | | gsf s) | gsf |
| port) | Gross SF | 20000 | 12930 7600 20530 | 18000 | 11450 | 9300 | 10000 4000 14000 | | 143,722 2006 dollars | 68,442 75,280 |
| (Revised from July 12, '06 Draff # 3 for inclusion in final report) | Accommodations | Community Ctr Site renovations (upper) | Town Hall Site renovations addition | Ballfield Site new building (shared with coa) | Ballfield Site new building (shared with recr) | Police Station Site renovations | Community Center Site renovations (lower) renovations (up'r aud) | Senior Center Site | Shared Sewage Treatment Facility Total Municipal SF Total Budget Estimate of Project Costs (2006 dollars) | Total Municipal GSF Programmed GSF Available for Community Uses |
| Revised from July 12, ' | Department | E.1 Town Hall & 18582 E.2 gsf programmed | Police 20213 gsf programmed | Recreation 18197 gsf programmed | COA/Seniors 11450 gsf programmed | Community 25436 gsf programmed | | Sell | Shared Sewage Tr Total Municipal SF Total Budget Estim | Total Municipa GSF Available |
| = | | ш | | 1. | -15 | | | | | |

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Pembroke Community Center Study

Project Cost Overview of Viable Development Options

Pembroke Community Center Study CBI/RDA Architects

August 10, 2006 (Revised from July 12. '06

| | F.1 Cons | add/reno may impact P.D. flow pd design flow may be limited | | | | | | a | E E | |
|---------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------|
| | F.1 Pros | easy to phase continuous hockey income no one lives thru renovation allows good site reconfig low extra 'community' sf built | | | | wi. | (400,000) appraisal needed | 2 2 | 10 10 10 | |
| ١. | 2006 Project Cost | 4,252,500 1,485,000 5,737,500 | 5,559,900 3,591,000 9,150,900 | 6,075,000 | 3,864,375 | 2,197,125 | (400,000) | 405,000 | 400,000 | |
| ost | | \$ 96 \$ \$ | 130 \$ 123 \$ | 88 88 | & & | 8 8 | ₩ | s S | У | |
| Project Cost | 35% Multiplier | ө | & & \(\tau \) | € | ↔ | € | | \ | | |
| Construction | st \$/sf | 225 275 | 300 | 250 | 250 | 175 | | 15 | | |
| Constr | Cost 2006 \$/sf | φ φ | ω ω | € | € | ↔ | | ₩ | gsf | gsf |
| ort) | Gross SF | 14000 4000 18000 | 12930 7600 20530 | <u>18000</u> | <u>11450</u> 11450 | 9300 | | 20000 | 77,280 :006 dollars) | 68,442 |
| (Revised from July 12, '06 Draff # 3 for inclusion in final report) | Accommodations | Community Ctr Site renovations addition | Town Hall Site renovations addition | Ballfield Site new building (shared with coa) | Ballfield Site new building · (shared with recr) | Police Station Site renovations | Senior Center Site | New Wing of Com'ty Ctr | Shared Sewage Treatment Facility Total Municipal SF Total Budget Estimate of Project Costs (2006 dollars) | Total Municipal GSF Programmed |
| evised from July 12, '0t | Department | ъ | Police 20213 gsf programmed | Recreation 18197 gsf programmed | COA/Seniors 11450 gsf programmed | Community 25436 gsf programmed | Sell | Demo | Shared Sewage Tr Total Municipal SF Total Budget Estim | Total Municipa |
| Ŗ, | | ıι. | | 1-16 | 5 | | | | | |

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Project Cost Overview of Viable Development Options

Pembroke Community Center Study CBI/RDA Architects

August 10, 2006

(Revised from July 12, '06 Draft # 3 for inclusion in final report)

| | | F.2 Pros | lowest cost option easy to phase | avoids F.D. Ilvirig through phasing all new facilities | only operating 3 facilities potential for site reconfiguration expanded comm. Cntr. Programs | lowest extra 'community' sf built | most SF avail. for sale or reserve | , | | | aisal needed | aisal needed | | is . | | |
|--------------------------------------------------------------------|---------------------------|----------------|-----------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|-------------------|------------------------------------------------------|---------------------------------------------------------|------------------------------|----------------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|--------------------------------|
| | 2006 | ost | lowe 4,252,500 easy | | | | mos 6 075 000 | 6,075,000 | 3,864,375 | 2,171,813 | (1,500,000) appraisal needed | (400,000) appraisal needed | 405,000 188,325 | 400,000 | 26,533,763 | 5 1. |
| | | σΙ | ₩ ₩ | 200 | ь | | €. | | ↔ ↔ | € 6 | G | ₩ | ₩ | ₩ | 69 | |
| | roject Cost | Multiplier | 79 | 8 | 123 | | α α | | 88 | 88 | | | ດເນ | | | |
| | <u>م</u> | | ↔ ↔ | | €9 | | U , | | ↔ | ↔ | | | 6 6 | | | |
| | Construction Project Cost | 2006 \$/sf | 225 | | 350 | | 250 | | 250 | 250 | | | 15 | • | <u>.</u> | |
| | O | | ₩ # | > | . () | | 49 | ** | ↔ | €9 | | | ७ ७ | ě | es (| asf |
| report) | | Gross SF | 14000 | 18000 | 20300 | 20300 | 18000 | 18000 | 11450 | 6435 6435 | 12930 | 3730 | 20000 | 74 105 | ,4,183 .006 dollars | 68.442 |
| (Revised from July 12, 06 Draft # 3 for inclusion in final report) | | Accommodations | Community Ctr Site renovations addition | | Police Station Site new building | | Ballfield Site new building | (shared with coa) | Ballfield Site new building (shared with recr) | Ballfield Site new building (shared with rec/coa) | Town Hall Site | Senior Center Site | New Wing of Com'ty Ctr Exist. Police Station | Shared Sewage Treatment Facility Total Municipal SE | Total Budget Estimate of Project Costs (2006 dollars) | Total Municipal GSF Programmed |
| evised iron July 12, | | Department | 2 Town Hall 18582 gsf programmed | | Police 20213 | gsf programmed | Recreation | gsf programmed | COA/Seniors 11450 gsf programmed | Community 25436 asf programmed | | Sell | Demo Demo | Shared Sewage Tra | Total Budget Es | Total Municipal |
| ٤ | *1 | | F.2 | ** | | | | 4 . | 18 | | | | | | | |

Project Cost Overview of Viable Development Options

Pembroke Community Center Study CBI/RDA Architects

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(Revised from July 12, '06 Draft # 3 for inclusion in final report)

| F.3 Cons | add/reno may impact T.H. flow most demolition on site phasing | ograms | | | | | | | |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|----------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| F.3 Pros | larger Town Green all new facilities only operating 3 facilities avoids P.D. living through phasing potential for site reconfiguration | expanded comm. Cntr. Programs | e | | | (400,000) appraisal needed | | | |
| 2006 Project Cost | 3,927,488 2,153,250 6,080,738 | 9,591,750 | 6,075,000 | 3,864,375 | 1,834,313 | (400,000) | 688,500 188,325 | 400,000 | |
| Project Cost 35% <u>Multiplier</u> | \$ \$ \$ \$ \$ \$ | 123 4 | 88 88 | & & | 88 89 | 49 | n n | ө | |
| Construction F Cost 2006 \$/sf | 250 \$ 225 \$ 275 \$ | 350 | 250 \$ | 250 \$ | 250 \$ | | 4 8 | : : | 1 |
| SS SF | 0 \$ 12930 \$ 5800 \$ | 20300 \$ | 18000 \$ | <u>11450</u> \$ | 5435 5435 | • | 34000 \$ 9300 \$ | 73,915 gsf 2006 dollars) | 68,442 gsf 5,473 gsf |
| Department Accommodations Gre | Town Hall Site finish attic renovations addition | Police Station Site new building | Ballfield Site new building (shared with coa) | Ballfield Site new building (shared with recr) | Ballfield Site new building (shared with rec/coa) | Senior Center Site | Community Ctr. Bldg. Exist. Police Station | Shared Sewage Treatment Facility Total Municipal SF Total Budget Estimate of Project Costs (2006 dollars) | Total Municipal GSF Programmed GSF Available for Community Uses |
| Department | F.3 Town Hall 18582 gsf programmed | Police 20213 gsf programmed | Recreation 18197 asf programmed | COA/Seniors 11450 gsf programmed | Community | Sell | Dето Dето | Shared Sewage Tr Total Municipal SF Total Budget Estim | Total Municipal GSF Available |

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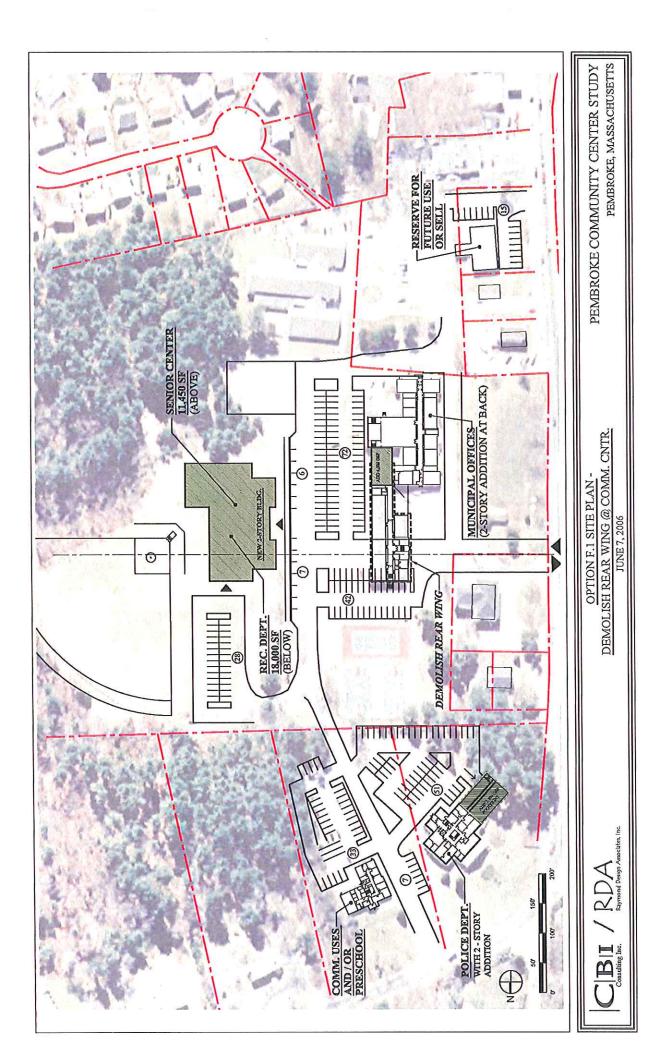
Consulting Engineers

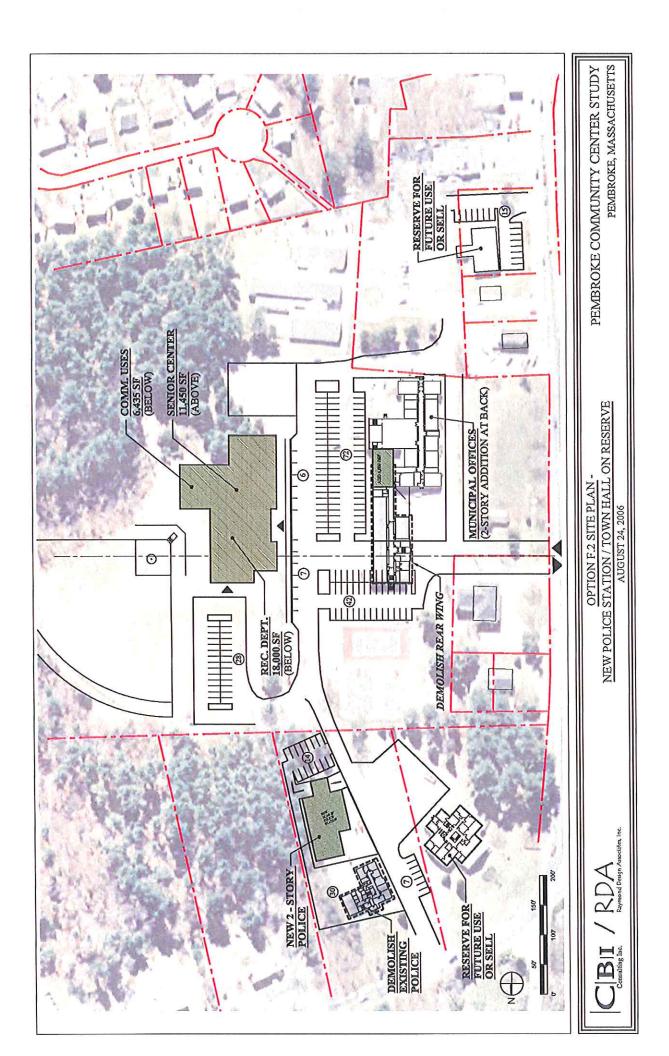
Inc

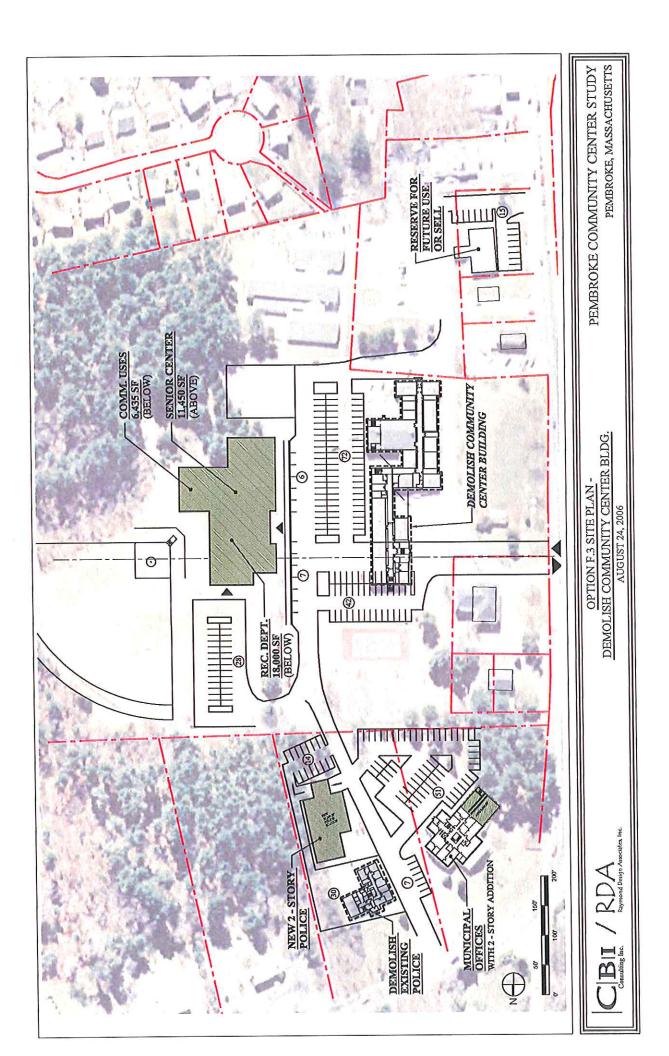
Pembroke Municipal Buildings Pembroke, MA Civil Evaluation – Preferred Option F Page 1 of 1 April 19, 2006

Option F Civil Evaluation

- The issue of the use of the ball fields for a municipal sewage facility needs to be further studied to verify that there exists sufficient area to accomplish both needs. We assume absent that information that the Option F stands alone.
- There are no Heritage issues with the proposal.
- We would maintain a 100 foot separation from the woodland where it seems the wetlands begin and that appears to have enough room for the leaching facility which could be placed at the ball fields, if they perc. Indications are that the soil will be suitable. If the ball field doesn't test affirmatively we would test the tennis courts. The next study phase should include a more detailed analysis including percolation tests and wetland delineation.
- The placement of the building may require ConComm action. The area does not show up on the state wetlands but that does not mean they are not regulated by the wetland act. We would need a botanist to flag the wetlands. It does not appear to be serious constraints on building even if the work is within 100 feet of wetlands.
- Assuming that we can get a variance as we did on Harwich the sewage flow for the Program would be under 10,000 GPD and treatment is not needed. A conventional sub surface sewage disposal system would suffice.
- The storm drainage systems would comply with Storm Water Management Guides. Roof Drainage will be recharged with leaching pits to the ground. Parking areas will have deep sump catch basins with environmental hoods, and will be piped to treatment devices such as stormceptors and will either go to a retention pond or detention pond at the edge of the woods at the lowest point on the site.







EXISTING CONDITIONS

Pembroke Community Center Feasibility Study Pembroke, Massachusetts Existing Conditions Survey (Architectural/Structural) Page 1 of 5 August 9, 2006

Pembroke Feasibility Study

(Architectural/Structural)

August 9, 2006

The Pembroke Community Center consists of three buildings adjacent to one another on a single site. They include the Town Hall, the Police Station, and the Community Building, which is the former school. The Town Hall and the Police Station were built approximately at the same time (late 1970's) and are wood frame construction with vinyl siding and asphalt shingle roof finish. The Community Center building is of masonry wall construction with a flat rubber roof and faux mansard transitional roof elements with asphalt shingles. The windows in the Town Hall and Police Station are wood, and the windows in the Community Building are aluminum and wood.

The intent of this report is to describe the existing conditions of each facility and describe deficiencies, recommendations for repair, and maintenance / repair activities that should be performed in advance of a major site renovation project.

TOWN HALL

The Town Hall is in good condition and very little work is required on the exterior of the building. All the wood trim, which is exposed painted wood at all the roof edges, has peeling paint and the wood substrate is exposed in many areas. The windows are also wood and the existing paint finish is severely deteriorated, causing the wood substrate to weather. In each of these instances, the existing wood should be prepared and painted. The wood trim at the roof edge could be covered with aluminum as more of a long-term maintenance solution. The cupola at the peak of the roof is also exposed wood and requires paint as well. The Town should make note that modern paint products do not last more than five years and any exposed wood should be put on a maintenance cycle.

The front porch facing Route 14 contains several minor maintenance and repair items that should be addressed including a hole in the vinyl siding, a crack in the brick paver floor and concrete steps as well as painting of the rusted steel handrails and exposed wood columns. The ceiling of the porch is plaster and should be painted as well.

The interior of the building is in good condition and unless a building permit is obtained no work is required, at the current time, to change any of the building elements to meet the current building code. The current building code is different than that which the building was built upon in 1978 and several items have

Pembroke Community Center Feasibility Study Pembroke, Massachusetts Existing Conditions Survey Architectural/Structural)) Page 2 of 5 August 9, 2006

changed, including the minimum rise and run for exit stairs, width of exit stairs, guardrails, and handicapped accessibility.

Each floor has direct egress out to grade. The second means of egress is through the central stairwell or the enclosed egress stair from one floor to another. Because the center of the building is designed as an atrium, the doors which lead from the adjacent offices into the corridor surrounding the central stair should be fire-rated. Either the original doors were not fire-rated or they have been replaced with doors with windows. These large, 2' wide and 3' tall, glass openings in the doors negate the fire-rating ability of doors. The doors also do not contain a UL label indicating that they are not rated.

The guardrail surrounding the central stair was retrofitted with a piece of Plexiglas, which reduced the opening size to a maximum of 5" between balustrades. This was a good effort at the time, but the code has changed to require a maximum of 4" between balustrade openings. Also, the railings which double as guardrails and handrails are not tall enough. Current guard requirements are 42" above the nosing of the stair with an additional single handrail that's required on the interior.

The existing double doors to the ground level exit appear to be propped open at all times. The intent of these doors is to act as a fire separation and should remain closed at all times. However, they could be connected to magnetic hold-opens which release upon the activation of the fire alarm. The exit door on the upper level does not appear to have fire separation doors at the end of that corridor, which is questionable.

Handicapped accessibility has been addressed but does not meet the current code to the letter. The existing elevator is approximately 4' deep and 5' wide. The current code calls for a 5' x 5' minimum cab to allow a wheelchair to turn around completely within the space. While it would be structural infeasible to change this elevator (it would require tearing out the existing shaft and replacing the cab) it is likely that the Town can receive a waiver from the Mass AAB for this item, assuming that certain other things are changed, like the height of the controls, installation of Braille signage, and audio signaling. The bathrooms need only minor adjustments to meet the intent of the accessibility code even though they do not strictly meet the dimensional requirements of the code. Most importantly, the door swings are incorrect. The likely overriding concern regarding toilet facilities in the building is whether or not there are a sufficient overall number of fixtures for the current occupancy.

The attic was reviewed for the possibility of expansion into the attic. This would require several structural changes to this roof area. Dormers would have to be installed in order to provide windows for lighting and ventilation, the elevator shaft would have to be extended upward into the attic and likely through the sloped roof

Pembroke Community Center Feasibility Study Pembroke, Massachusetts Existing Conditions Survey Architectural/Structural)) Page 3 of 5 August 9, 2006

to provide enough overrun. A second means of egress would have to be installed, likely in the form of a new stair addition to be constructed in the inside corner of the building facing Route 14 on the side away from the Police Station. This amount of construction would have to be carefully weighed against the need for additional space in the attic (programming versus cost).

POLICE STATION

The existing Police Station structure, which was built at the same time as the Town Hall, is suffering the same exterior maintenance issues at the exposed wood at the roof eaves and the wood windows. Additionally, there are several entrance steps that have been created out of pressure treated lumber, which are severely deteriorated and require replacement. At the same time, they would have to meet current codes for guards, handrails, and steps. Existing exterior doors are deteriorated and should be painted if in good condition and replaced if deteriorated. The existing wood doors require replacement while the metal doors can be recovered.

The biggest issue concerning the Police Station involves its complete lack of compliance with current safety requirements for Police Station design. The number of violations are so numerous that they could receive an entire separate report. Suffice it to say that the amount of work that it would take to bring this facility up to code would cost as much or more than it would to build a brand new facility. Additionally, from a disruption standpoint and the standpoint of keeping the building in operation during the construction (the Police Station still needs to meet the needs of the community), it would be more economical and faster to build a new Police Station immediately adjacent to the old one, keeping the existing facility in operation until it was time to move completely into the new building.

COMMUNITY CENTER

The existing Community Building, which is the former school, has been converted to numerous uses including day care, recreation, bingo, as well as local cable channel offices and production facilities. While the existing building is being utilized, it is not being utilized to its full potential. Spaces within the building are still vacant. The existing configuration, which was originally designed for school occupancy, does not directly translate to other modern uses. The corridors, for example, are extremely wide and therefore contain wasted space that could otherwise be used by tenants. Additionally, the corridor walls are extremely thick, containing numerous chases for mechanical systems which are no longer used. Modern HVAC systems need much less space and, again, this contains space that could be used by the adjacent occupancy.

The existing toilet facilities are inefficient, although they potentially provide enough overall space for new toilet layouts. The existing stairwells appear to be

Pembroke Community Center Feasibility Study Pembroke, Massachusetts Existing Conditions Survey Architectural/Structural)) Page 4 of 5 August 9, 2006

numerous enough with proper rise and run of stair treads. However, the railing heights are insufficient to meet current safety requirements. Doors throughout the facility do not meet the current codes for fire separation.

The existing floor tiles appear to be vinyl asbestos material, which can be left in place or covered. Removal is also a fairly standard operation but will increase the cost of construction. There are numerous locations throughout the facility where current and former leaks have caused deterioration of the ceiling tiles and plaster finish, which require repair.

One of the most problematic and costly parts of this project will include the need to replace all the windows in the entire facility. The existing windows are single-pane glass with aluminum and wood frames that are not thermal broken. The facility will see an immediate payback in energy costs if these windows are replaced. The existing masonry finish on the building exterior has numerous deficiencies including mortar joints that need pointing, bricks that require replacing, as well as cracks and structural deficiencies, which should be repaired. All of these items can be done using standard masonry techniques.

Most of the exposed wood on the building exterior has deteriorated to a point that it requires replacement. In many of the areas the wood is adjacent to roofing, which is also severely deteriorated and could all be replaced at the same time. A new system of downspouts is required. It does not appear that there is a perimeter yard drain system to carry roof drainage away from the building. This should be considered during the cost estimating process for this project.

Handicapped access into the building does not meet current code. It is accomplished through two ramp systems that are installed at the south and west side of the building. The south ramp is concrete with steel rails. The pitch of the ramp appears to be correct, but the railing system does not meet the current requirements. The wood rail system at the west entrance does not meet the code in numerous ways. This should be completely replaced. However, as this building is being considered for numerous Town functions, an elevator should be considered to house the building. If so, one or more of these ramps could be eliminated and the elevator could be incorporated into an entrance so that the ramps are no longer needed.

INTERIM MAINTENANCE

Until the design option selected by the town is designed and constructed, certain maintenance activities and repairs should be performed to halt deterioration and preserve the building structure until new facilities are built, as follows:

Town Hall

Pembroke Community Center Feasibility Study Pembroke, Massachusetts Existing Conditions Survey Architectural/Structural)) Page 5 of 5 August 9, 2006

Paint all exposed wood windows, roof, trim, and the cupola. Install white aluminum over all the roof fascia boards.

Police Station

Paint all exposed wood windows, roof, and trim. Install white aluminum over all the roof fascia boards. All pressure treated wood decks and porches require repair and replacement of broken, missing or warped lumber. Paint the existing metal doors. Replace deteriorated doors.

Community Center

Any areas of the building to remain in the new design should receive a new roof. We recommend a single ply PVC membrane with heat welded seams over tapered rigid insulation. The mansard shingles should be replaced with an architectural asphalt shingle. All the wood trim should be replaced along with any deteriorated blocking. New gutters and downspouts, as well as internal drains, should be installed. The roofing over the other areas, which will be demolished, should be temporarily repaired. An acrylic spray on coating should be applied to the existing roofing which is inexpensive and will provide 5 years of protection.

Minor masonry repair work should be performed on the building exterior at major cracks and areas of deterioration that would allow water into the system.

The window trim at the perimeter of the wood windows require replacement and any broken storm windows should be replaced. Sealants at the perimeter of the metal windows should be replaced and any broken glass replaced.

The wheelchair ramp at the center of the building should be completely replaced with a new compliant pressure treated wood ramp with metal rails.

The town should budget \$ 332,000 for this work.

MST/jao 06006 L002 Preliminary Report

Consulting Engineers

Inc.

Pembroke Municipal Complex Pembroke, Massachusetts Existing Conditions Survey (Civil) Page 1 of 3 April 19, 2006

CIVIL

SITE CONDITIONS

- The Community Center, Town Hall and Police Station are located on several contiguous parcels of town owned land in excess of 40 acres.
- The parcel is served by a public water system and on site subsurface sewage disposal systems.
- There are in addition to the above several smaller Community Facilities such as the new Library Building, Scouts and Elderly Buildings.
- Commonwealth of Massachusetts DEP polices would aggregate the several parcels so that they would be considered as one lot and thus would have a limit of 10,000 gal/day of sewage which could be disposed of by conventional subsurface sewage disposal systems. When this threshold is reached a ground water discharge permit is required. Treatment of the effluent is also required.

ZONING:

- The site is located in a Residence A Zone which allows municipal uses. The site is outside the Center Protection District.
- The site is not located in the Zone II Watershed Protection Overlay District.
- The site is not indicated in the Massachusetts G.I.S. System and does not contain any areas of critical environmental concern nor does it appear on the endangered species maps. There are wetlands to the rear of the ball fields adjacent Herring Brook. The flood plain zone along the brook does not impact any development on the site.

ACCESS:

- Paved access is provided with a shared entrance at Center Street shared by the Police and Town Hall. The Community Center has shared access from Center Street. The rear of the three parcels is used for parking and is interconnected with a paved drive behind the Public Tennis Courts which roughly bisect the Community Center and the Town Hall and Police Station.
- In general, paving is in need of resurfacing in all three facilities. The paved surfaces are poorly drained and show signs of cracking and disintegration.

Consulting Engineers

Inc

Pembroke Municipal Complex Pembroke, Massachusetts Existing Conditions Survey (Civil) Page 2 of 3 April 19, 2006

DRAINAGE:

- Drainage appears to be a combination of piped systems from the Community Center and Town Hall. Police Station discharges to grade with splash blocks from gutters and downspouts.
- There are a limited number of catch basins. Catch basins appear to be leaching type basins. There is evidence that these systems are in need of replacement as in significant run off events, they overtop and discharge by overland to the ball fields and lower lands off the paved way.
- Any significant renovation will include all new drainage systems that employ current Stormwater Management Practices to treat the runoff before recharge to the groundwater. Roof Drainage will be recharged with leaching pits to the ground. Parking areas will have deep sump catch basins with environmental hoods, and will be piped to treatment devices such as stormceptors and will either go to a retention pond or detention pond at the edge of the woods at the lowest point on the site.

SANITARY SEWERAGE:

- The Town has retained the Engineering Firm of Weston and Sampson for the feasibility study of a municipal sewerage collection and treatment facility to include the Municipal Complex and the retail center. The study is in its preliminary stages. One of the areas under consideration for the municipal disposal site is the ball field area.
- The area has not yet had a geotechnical study to verify its suitability either by Weston and Sampson or this team.
- Based on review of available data at the Pembroke Board of Health, the Town Hall was granted a permit in 1979 to install a 2000 gallon septic tank at the rear of the building. Quoting the permit "The effluent from the septic tank will go to the existing sewage system at the Center School which was designed to include the Old Town Hall. In case of a backup the flow would go to the sewage system at the Police Station."
- The plans for the Town Hall indicate a connection to the Police Station System. Reportedly there have been backups in the systems with frequent pumping of the system.

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Inc

Pembroke Municipal Complex Pembroke, Massachusetts Existing Conditions Survey (Civil) Page 3 of 3 April 19, 2006

- There is no available information or drawings for the School or Police Station drainage systems.
- Clearly each of the three buildings has its own individual septic tank. The Town Hall and Community Center directly share a common leaching system and indirectly share (via an overflow) the Police Station System. Frequent pumping indicates that the systems are near failure and a new system is required for the (3) buildings.
- The soils to the rear of the complex, based on the experience of local testing by the Health Department are expected to pass a percolation test as per Title IV. If the proposed municipal system is approved, the complex would connect to that system. Should that plan not materialize, it is expected that the three buildings could continue to function with an on-site sewage disposal system. A more detailed analysis of the other municipal uses in the contiguous Town Parcels will be required. However, preliminarily it appears that the total flow would be less than 10,000 gallons/day and since the site is not impacted by any areas of concern, no form of treatment would be required.

Consulting Engineers

Inc

Pembroke Community Center Pembroke, MA Existing Conditions Report (Plumbing/Fire Protection) Page 1 of 2 April 19, 2006

CIVIL

- Building is serviced by municipal water and on-site septic. Municipal water appears to
 adequately serve the site and is suitable for expansion. See civil report for discussion of
 the septic system.
- Drainage for runoff from paved parking areas and the roof appear to discharge to underground piping systems.

PLUMBING

Presently, the plumbing systems serving the building are cold water, hot water, sanitary
waste and vent system, and natural gas.

FIXTURES

- Fixtures in the building are of mixed vintage some original to the construction and some retrofits. Water closets are floor mounted, flush valve vitreous china, with elongated bowls and several are round front bowls which are non-code compliant.
- Urinals are wall hung, flush valve, vitreous china, fairly new but not accessible.
- Lavatories are generally wall hung vitreous china, two handle faucets.
- Wall hung electric water cooler fairly new.
- There are toilets for public use which are intended to be accessible. These do not fully meet current standards.
- Generally the fixtures are fairly old and have served their useful life. They are not code compliant as they are not water conserving nor are they accessible.
- All new fixtures will be required for any significant renovation.

DRAINAGE SYSTEMS

• Cast iron is used for sanitary. The exposed piping in the bingo room is in fair to poor condition.

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Pembroke Community Center Pembroke, MA Existing Conditions Report (Plumbing/Fire Protection) Page 2 of 2 April 19, 2006

- The building is generally sloped roof to an exterior copper gutter system with copper downspouts connecting to exterior downspout shoes which are cast iron in some cases, PVC in others. Several are broken and the exterior piping system is probably clogged.
- A complete new system of downspouts and piping is required for a significant renovation.

WATER SYSTEMS

- Building has a 4" cast iron water service. There is adequate pressure for expansion.
- The piping where exposed is generally copper pipe with solder joints given the age of the system, a significant renovation will require all new water piping systems.

NATURAL GAS

- There is a retrofitted 250 cfh gas meter.
- A new gas service and meter will be required for a significant renovation.

FIRE PROTECTION

- Building is not currently provided with a piped automatic fire suppression system.
- A new sprinkler system will be required for a renovation.

Consulting Engineers

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Pembroke Community Center Pembroke, Massachusetts Existing Conditions Survey (HVAC) Page 1 of 2 April 19, 2006

HVAC System Deficiencies

Boiler Room

Extensive surface contamination on boiler shells

Boilers appear to be reaching their maximum serviceable life

Water leaks along base of each boiler

No containment area installed around interior fuel oil storage tanks

Fuel oil piping runs along floor and is unprotected

Extensive surface soiling and contamination on expose steam piping and valves.

It appears insulation on piping is asbestos

Fuel oil transfer pumps and piping from underground storage system have been abandoned in-place

Crack in masonary chimney should be investigated by structural engineer

Condensate receiver storage tank not insulated

Condensate piping not insulated

Vacuum pump return system extremely antiquated and appears to have been abandoned in-place

Automatic temperature control system appears extremely antiquated and is not appear to be operating

No combustion air louvers provided

Public Toilet Areas

Central exhaust system is extremely antiquated, appears undersized area served, and does not appear to operate

Consulting Engineers

Inc.

Pembroke Community Center Pembroke, Massachusetts Existing Conditions Survey (HVAC) Page 2 of 2 April 19, 2006

Communicating Corridors

We are installed central exhaust system is extremely antiquated and is not appear to operate. Code required supply it was not provided

Various corridors were not provided with any ventilation air

Entrance Vestibules

Wall mounted convectors are undersized to control infiltration air during frequent door use

Upper and Lower Typical Classroom Areas

All wall mounted classroom unit ventilators are extremely antiquated, extensive surface soiling, and do not appear to be operating

Wall openings provided for central exhaust do not appear to be operating

Gymnasium

Wall mounted convectors are extremely antiquated and soiled

Stage area not provided with ventilation air

Air handling units providing air to gymnasium are extremely antiquated and did not appear to be operating

Automatic temperature control system is completely out of service

Consulting Engineers

Inc

Pembroke Community Center Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 1 of 3 April 20, 2006

ELECTRICAL DISTRIBUTION SYSTEM:

- The existing electrical service consists of a 400 AMP, 120/230 volt, 1∅, 3 wire main disconnect switch manufactured by Murray.
- The existing 400 amp service is located in the boiler room. Service consists of main switch section and panelboards.
- Existing lighting and power panels are circuit breaker and are rated at 120/230 volt, 1Ø, 3wire. Panelboards are provided throughout the school.
- A separate 200 amp 120/230 volt, $1\emptyset$, 3 wire service with a main disconnect switch is also provided in the boiler room.

INTERIOR LIGHTING SYSTEM:

- Existing classroom, office and corridor lighting consists of 1' x 8' surface mounted prismatic fixtures. Lighting in the corridor consists of 1' x 4' surface wraparound fixtures.
- Lighting in the gym consists of surface 2' x 2' square HID fixtures.

EMERGENCY LIGHTING SYSTEM:

Self-contained emergency lighting units are provided throughout the building.
 Non-lit exit signs have been provided throughout the building.

SITE LIGHTING SYSTEM:

• Existing site lighting is by building mounted incandescent flood lights. Lighting fixtures are surface mounted incandescent spot lights at the main entrance. There is one pole with a flood light in the parking lot.

WIRING DEVICES:

 Existing classroom and media center have outlets throughout the room including surface wiremold with outlets and data jacks.

Consulting Engineers

Inc

Pembroke Community Center Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 2 of 3 April 20, 2006

FIRE ALARM SYSTEM:

- The building is equipped with an automatic non-addressable fire alarm system throughout the building. Existing strobes do not meet ADA for intensity. The fire alarm control panel is manufactured by Potter. Notification to the fire department is by a surface mounted Silent Knight transmitter. Toilet rooms, classrooms and stage do not have horn/strobe units.
- Corridors have smoke detectors and horn/strobes throughout and pull stations at exits.

DATA/TELEPHONE/CLASSROOM INTERCOM/CLOCK SYSTEM/SECURITY SYSTEM:

- The telephone service is located in the boiler room. The Administration area has telephone handsets. The telephones are used for paging.
- There are battery clocks in the classrooms.

RECOMMENDATIONS:

ELECTRICAL DISTRIBUTION SYSTEM:

 The existing Murray main disconnect switch needs be replaced. The entire distribution system and service needs to be replaced.

INTERIOR LIGHTING SYSTEM:

• Existing lighting throughout the building should be replaced. The new lighting would be more efficient and provide better light levels.

EMERGENCY LIGHTING SYSTEM:

All existing exit signs should be replaced with new more efficient LED type.

SITE LIGHTING SYSTEM:

Fixtures at entrances should be replaced with new more efficient fixtures.

Consulting Engineers

Inc.

Pembroke Community Center Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 3 of 3 April 20, 2006

WIRING DEVICES:

Each classroom should have a minimum of (2) duplex receptacles per wall and (2) double duplex receptacles at classroom computer workstations.

FIRE ALARM SYSTEM:

The existing fire alarm system should be replaced with a new addressable system
to provide adequate coverage throughout the school. ADA requires strobe units
in all toilet rooms.

<u>DATA/TELEPHONE/CLASSROOM INTERCOM/CLOCK SYSTEM/SECURITY SYSTEM:</u>

- The existing telephone paging system should be replaced with a new classroom intercom system with speakers and telephone handsets in all classrooms.
- A new clock system should be provided to replace the battery clocks throughout the building.

Consulting Engineers

Inc

Pembroke Town Hall Pembroke, MA Existing Conditions Report (Plumbing/Fire Protection) Page 1 of 2 April 19, 2006

CIVIL

- Building is serviced by municipal water and on-site septic. Municipal water appears to adequately serve the site and is suitable for expansion. See civil report for discussion of the septic system.
- Drainage for runoff from paved parking areas and the roof appear to discharge to underground leaching systems including a drywell which also serves as a catch basin.

PLUMBING

• Presently, the plumbing systems serving the building are cold water, hot water, sanitary waste and vent system, and natural gas.

FIXTURES

- Fixtures in the building appear original installation to the construction. Water closets are wall hung, flush valve vitreous china, with elongated bowls.
- Urinals are wall hung, flush valve, vitreous china.
- Lavatories are generally wall hung vitreous china, two handle faucets.
- Wall hung electric water cooler.
- There are toilets for public use which are intended to be accessible. These do not fully meet current standards.
- Generally while the fixtures are well maintained they are not code compliant as they are not water conserving nor are they accessible.

DRAINAGE SYSTEMS

- Cast iron is used for sanitary. It is expected that the piping could be reused in a renovation project.
- There is a floor drain in the boiler room and reportedly there is glycol in the piping for cooling. This floor drain should be plugged.

Consulting Engineers

Inc.

Pembroke Town Hall Pembroke, MA Existing Conditions Report (Plumbing/Fire Protection) Page 2 of 2 April 19, 2006

WATER SYSTEMS

- Building has a 4" cast iron water service with a 2" disc meter and a pressure reducing valve. There is adequate pressure for expansion.
- Hot water is provided with a 30 gallon capacity gas fired water heater the heater requires a thermostatic mixing valve.
- There have been recent retrofits of backflow preventers.
- The piping where exposed is generally copper pipe with solder joints and it is insulating. The piping could be reused in a significant renovation depending on final pipe sizing.

NATURAL GAS

- There is an elevated gas pressure service and 1 gas meter. Gas is used for heating and hot water.
- Depending on projected loads it would appear that gas is adequate for future expansion.

FIRE PROTECTION

Building is not currently provided with a piped automatic fire suppression system.

Consulting Engineers

Inc

Pembroke Town Hall Pembroke, Massachusetts Existing Conditions Survey (HVAC) Page 1 of 2 April 19, 2006

HVAC System Deficiencies

Boiler Room

Breeching not insulated

Hot water piping not insulated

Leaking air vent on separator causing surface corrosion

Automatic temperature control system very antiquated

Combustion air inlets are not provided with motor operated dampers and the lower unit should be ducted to within 18 inches of floor

Excessive surface corrosion on expansion tank

Lower-Level

Wall mounted heat pump units are antiquated and have surface soiling

Ventilation throughout entire low-level is through operable windows with no mechanical ventilation provided

It appears that all heat pump units are manually controlled

No central exhaust systems provided to assist in natural ventilation air flow

Gas meter located adjacent to combustion air louvers

No insulation on exterior condenser water piping and piping which travels underground and does not appear to be protected from electrolysis

Main Level

It appears that the original heat pump units have been failing all of which are in excess of their acceptable usable life

It appears that heating is inadequate which is evidenced by portable electric heaters throughout

Consulting Engineers

Inc

Pembroke Town Hall Pembroke, Massachusetts Existing Conditions Survey (HVAC) Page 2 of 2 April 19, 2006

Planning Director's office not provided with heat or air-conditioning all of which appears to be provided from adjacent spaces

Supply ductwork feeding circulation corridors throughout lower-level and upper level not insulated

Circulation piping not insulated

Condensate drain not insulated

Wall mounted heat pump units are antiquated and have surface soiling

Ventilation throughout entire upper-level is through operable windows with no mechanical ventilation provided

It appears that all heat pump units are manually controlled

No central exhaust systems provided to assist in natural ventilation air flow

Consulting Engineers

Inc

Pembroke Town Hall Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 1 of 3 April 18, 2006

ELECTRICAL DISTRIBUTION SYSTEM:

- The existing electrical service consists of a main circuit breaker located in the basement. The service rating is rated at:
 600 amp, 120/208 volt, 3Ø, 4 wire. The equipment is manufactured by Square D which is no longer in business.
- Existing lighting and power panels are circuit breaker type and are rated at 120/208 volt, 3Ø, 4wire. The existing panels do not appear to have spare circuit breakers for the addition of new lighting and power circuits. The existing panels are in good condition and manufactured by Square D.

INTERIOR LIGHTING SYSTEM:

- Existing office lighting consists of 2'x4' recessed mounted fluorescent fixtures with acrylic lenses. The fixtures are in good condition.
- Toilet room appear to have incandescent fixtures. The quantity of light is not adequate.
- Corridor lighting consists of recessed fluorescent fixtures with the acrylic lenses.

EMERGENCY LIGHTING SYSTEM:

• Remote emergency lighting heads are located throughout the building. Additional self-contained emergency lighting units are provided throughout the building. Exit signs are the fluorescent type throughout the building.

SITE LIGHTING SYSTEM:

Existing site lighting is by building mounted wall pack/flood lighting fixtures.
 Site lighting does not appear adequate.

WIRING DEVICES/BRANCH CIRCUITS:

• It appears that offices do not have adequate quantity of receptacles. Extension cords are being used throughout for connection of computer equipment.

Consulting Engineers

Inc

Pembroke Town Hall Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 2 of 3 April 18, 2006

FIRE ALARM SYSTEM/TEL/DATA:

- The building is equipped with a FCI-4 Zone automatic fire alarm system. Existing strobes do meet ADA for intensity.
- Toilet rooms do have strobe lights installed.
- Some fire alarm pull stations are mounted higher than 48" above finished floor as required by ADA.
- The telephone service is located in the main electric room.

RECOMMENDATIONS

ELECTRICAL DISTRIBUTION SYSTEM:

 The existing electric service distribution system is in good condition and provides adequate capacity for the building.

INTERIOR LIGHTING SYSTEM:

- New lighting should be low glare type fixtures such as Parabolic 2'x4' with low iridescent louvers.
- Incandescent lighting fixtures in the toilet rooms should be replaced with energy saving fluorescent fixtures.

EMERGENCY LIGHTING SYSTEM:

 All existing fluorescent exit signs should be replaced with new more efficient LED type to meet current requirements.

SITE LIGHTING SYSTEM:

 New fixtures for area lighting should be installed. New cut-off type building mounted fixtures should be installed.

Consulting Engineers

Inc

Pembroke Town Hall Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 3 of 3 April 18, 2006

WIRING DEVICES:

• Each large office/meeting room should have a minimum of (2) duplex receptacles per wall and (2) double duplex receptacles at computer workstations. Offices should have a minimum of (1) duplex receptacle per wall, (1) double duplex receptacle at computer workstations and dedicated outlets for equipment.

FIRE ALARM SYSTEM:

 A new fire alarm system should be provided. The new system should be addressable type. The system must be ADA compliant.

Consulting Engineers

Inc

Pembroke Police Station
Pembroke, MA
Existing Conditions Report (Plumbing/Fire Protection)
Page 1 of 2
April 19, 2006

CIVIL

- Building is serviced by municipal water and on-site septic system. Municipal water appears to adequately serve the building and is suitable for expansion.
- Runoff from the sloped roof discharges to grade with splash blocks.

PLUMBING

 Presently, the plumbing systems serving the building are cold water, hot water, sanitary waste and vent system and natural gas.

FIXTURES

- Fixtures in the building are of mixed vintage reflecting the time of the original installation. Recent renovations include new fixtures. Water closets in the Police Station are generally floor mounted flush tank vitreous china, with elongated bowls in some cases, round in others.
- Urinals are wall hung, flush valve, vitreous china.
- Lavatories are generally wall hung vitreous china, two handle faucets.
- Non-accessible pressure balanced shower exists for the male offices and a renovated facility in the upper level for the female offices.
- There are several cells with institutional toilet fixtures. There are no accessible fixtures.
- There are toilets which are intended to be accessible. These do not fully meet current standards.
- Generally while the fixtures are well maintained, they are not code compliant as they are not water conserving nor are they accessible.

DRAINAGE SYSTEMS

- Cast iron is used for sanitary drainage. The exposed piping runs in the basement space indicate the piping is in satisfactory condition.
- The piping from the floor drainage in the Police Station garage area has been sealed.

Consulting Engineers

Inc

Pembroke Police Station Pembroke, MA Existing Conditions Report (Plumbing/Fire Protection) Page 2 of 2 April 19, 2006

WATER SYSTEMS

- The Police Station has 2 copper service with a 1" disc meter.
- The water service in the Police Station enters into the basement along with the electric service in to the same room which is a code violation.
- Hot water is provided with a 40 gallon storage water heater, gas fired. A thermostatic valve is required.

NATURAL GAS

- There is an elevated gas pressure one (1) gas meters. Gas is used for heating and hot water.
- Depending on projected loads it would appear that gas is adequate for future expansion.

FIRE PROTECTION

Neither building is currently provided with a piped automatic fire suppression system.

Consulting Engineers

Inc

Pembroke Police Station Pembroke, Massachusetts Existing Conditions Survey (HVAC) Page 1 of 2 April 19, 2006

HVAC System Deficiencies

Boiler Room

Approximately 50% of hot water piping not insulated

Surface corrosion on gas gas piping

Could not locate automatic temperature control system and it appears one is not installed

One combustion air inlet provided and without motor operated damper. Additional lower unit should be provided and ducted to within 18 inches of floor also provided with motor operated damper

Lower-Level

Baseboard radiation is residential quality, is antiquated, damaged and has extensive surface soiling

It does not appear that the mechanical ventilation system in the lower-level is operating

No central exhaust systems provided to assist in ventilation air flow

Various corridor areas in lower-level not ventilated

Exhaust fan in locker area is manually controlled and area is not provided with constant ventilation

Main Level

Baseboard radiation is residential quality, is antiquated, damaged and has extensive surface soiling

No central exhaust systems provided to assist in ventilation air flow

Ventilation for entire first floor appears to be through the use of operable windows

Wall mounted air-conditioning units have surface soiling

Circulation corridor is not provided with ventilation air

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Pembroke Police Station Pembroke, Massachusetts Existing Conditions Survey (HVAC) Page 2 of 2 April 19, 2006

Numerous interior areas not provided with ventilation air

No ventilation air provided for Sallyport

No carbon monoxide detectors in sallyport area

It does not appear that central exhaust system in booking area is operating

Upper Level

Baseboard radiation is residential quality and has slight surface soiling imperious areas

No central exhaust systems provided to assist in ventilation air flow

Ventilation for entire upper floor appears to be through the use of operable windows

Circulation corridor is not provided with ventilation air

Exhaust fan in locker area is manually controlled and area is not provided with constant ventilation

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Inc.

Pembroke Police Station Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 1 of 4 April 19, 2006

ELECTRICAL DISTRIBUTION SYSTEM:

- The existing electrical service consists of an original main circuit breaker/CT section located in the basement. The service rating is rated at: 400 amp, 120/208 volt, 3Ø, 4 wire. The service equipment has reached its life expectancy. The equipment is manufactured by Federal Pacific which is no longer in business.
- Existing lighting and power panels are circuit breaker type and are rated at 120/208 volt, 3Ø, 4wire. The existing panels do not appear to have spare circuit breakers for the addition of new lighting and power circuits. The existing panels are 1970s vintage and manufactured by FPE which is no longer in business.

INTERIOR LIGHTING SYSTEM:

- Existing office lighting consists of 1'x4' surface mounted fluorescent fixtures with acrylic lenses.
- Dispatch area has recessed 2' x 2' fluorescent fixtures with acrylic lens.
- The locker room has 2' x 2' recessed fluorescent fixtures.
- Cell areas have a vandal resistant wall mounted fluorescent fixtures which are in poor quality. The fixtures should be replaced.
- Corridor lighting consists of recessed 2' x 4' fluorescent fixtures with the acrylic lenses.
- The booking area does not have vandal resistant fluorescent fixtures. The existing fixtures are not appropriate for the environment.
- The lighting in the sallyport is very low. The light levels are inappropriate for the task required.

EMERGENCY LIGHTING SYSTEM:

• The emergency lighting system is through an indoor 30Kw emergency generator. The generator is natural gas.

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Pembroke Police Station Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 2 of 4 April 19, 2006

- The feeders and emergency equipment are not located in two (2) hour rated enclosures as is required by Code. The condition of the generator is poor condition. The automatic transfer is located adjacent to the main service which back-feeds the entire service. The installation is not code compliance because it does not separate life safety from optional standby systems.
- The existing exit signs are fluorescent type and in poor condition.

SITE LIGHTING SYSTEM:

Existing site lighting is by building mounted wall pack/flood lighting fixtures. Site lighting does not appear adequate.

WIRING DEVICES/BRANCH CIRCUITS:

• It appears that offices do not have adequate quantity of receptacles. Extension cords are being used throughout for connection of computer equipment.

FIRE ALARM SYSTEM/CCTV/E911/TEL/DATA:

- The building is equipped with a FCI-4 Zone automatic fire alarm system. Existing strobes do meet ADA for intensity. The cell areas do have smoke detectors outside of cells.
- Toilet rooms do have strobe lights installed.
- Some fire alarm pull stations are mounted higher than 48" above finished floor as required by ADA.
- There is a closed circuit TV system with a black-and-white multiplexer. The closed circuit TV system should be upgraded. The CCTV cameras are black and white type. Monitor for CCTV is located in dispatch area.
- The existing telephone is located in the main electric.
- E911 equipment is installed in a non-rated room in basement.

RECOMMENDATIONS

ELECTRICAL DISTRIBUTION SYSTEM:

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Pembroke Police Station Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 3 of 4 April 19, 2006

- The continuous capacity (80% of rated service conductors) is 160 amperes or 57.6KW. The total square footage not including any proposed additions is approximately 7,000 s.f. yielding approximately 8.2 watts/s.f.
- New construction service ratings are generally designed for a demand load of 15 watts/s.f.

INTERIOR LIGHTING SYSTEM:

 New lighting should be low glare type fixtures such as Parabolic 2'x4' with low iridescent louvers.

EMERGENCY LIGHTING SYSTEM:

- The existing emergency system should be completely replaced. New emergency light fixtures will be installed in all egress areas such as corridors, intervening spaces, toilets and above exterior doors. All new feeders must be two (2) hour rated, and equipment located in a (2) hour rated room.
- New exit sings should be provided.

SITE LIGHTING SYSTEM:

 New fixtures for area lighting should be installed. New cut-off type building mounted fixtures should be installed.

WIRING DEVICES:

• Each large office/meeting room should have a minimum of (2) duplex receptacles per wall and (2) double duplex receptacles at computer workstations. Offices should have a minimum of (1) duplex receptacle per wall, (1) double duplex receptacle at computer workstations and dedicated outlets for equipment.

FIRE ALARM SYSTEM/CCTV/E911:

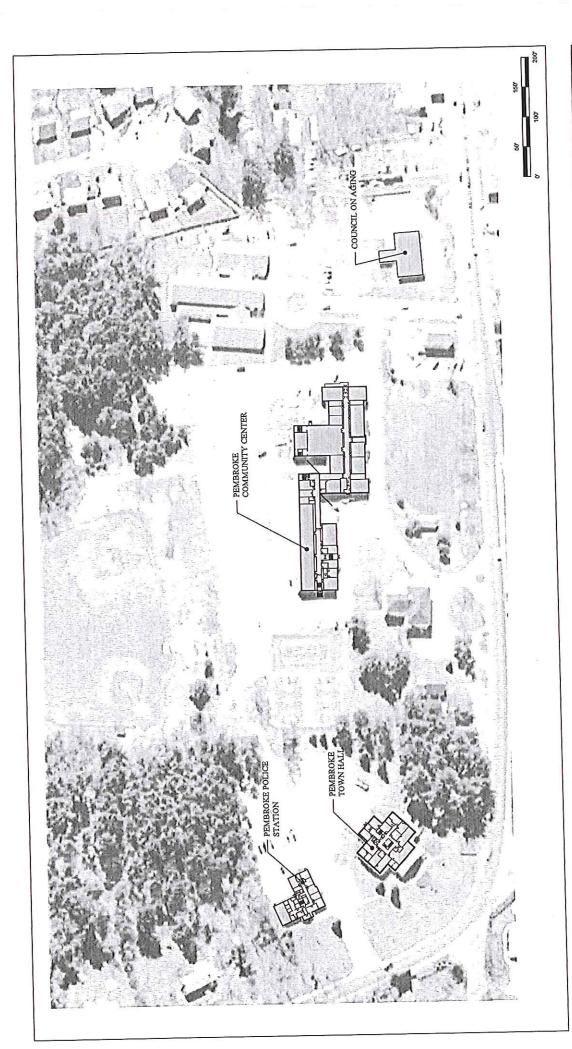
- A new fire alarm system should be provided. The new system should be addressable type. The system must be ADA compliant.
- A new closed circuit TV system should be installed with color cameras and digital video recorder that is connected to the local area network.

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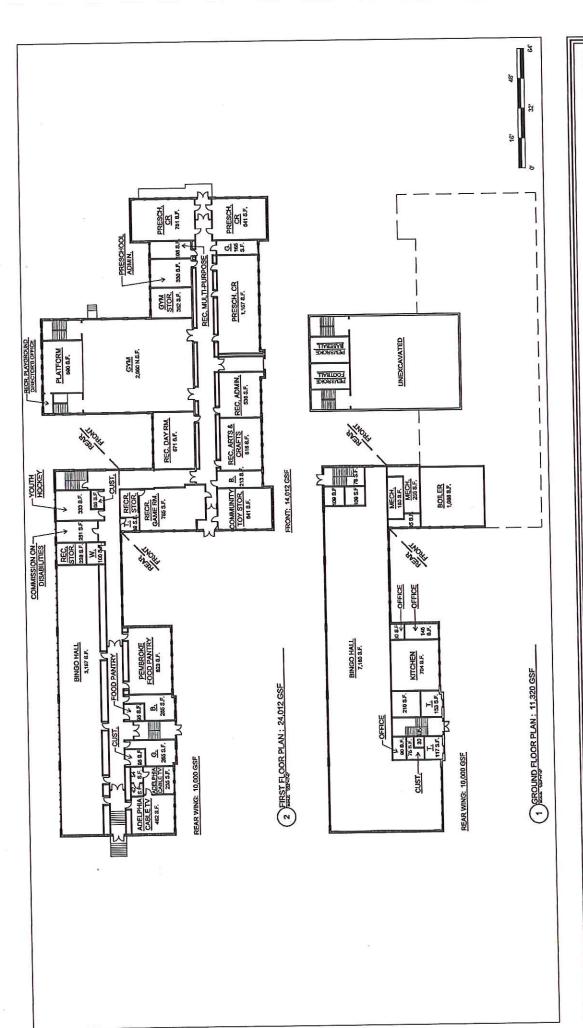
Pembroke Police Station Pembroke, Massachusetts Existing Conditions Survey (Electrical) Page 4 of 4 April 19, 2006

- A new main distribution frame room should be provided to include radio equipment, telephone recording equipment, servers, paging system, telephone system and other specialized equipment headend.
- A duress alarm system should be provided and areas such as booking, detention area, exercise room, and sallyport. The duress alarm will annunciate and the dispatch in roll call room.



EXISTING CONDITIONS SITE PLAN

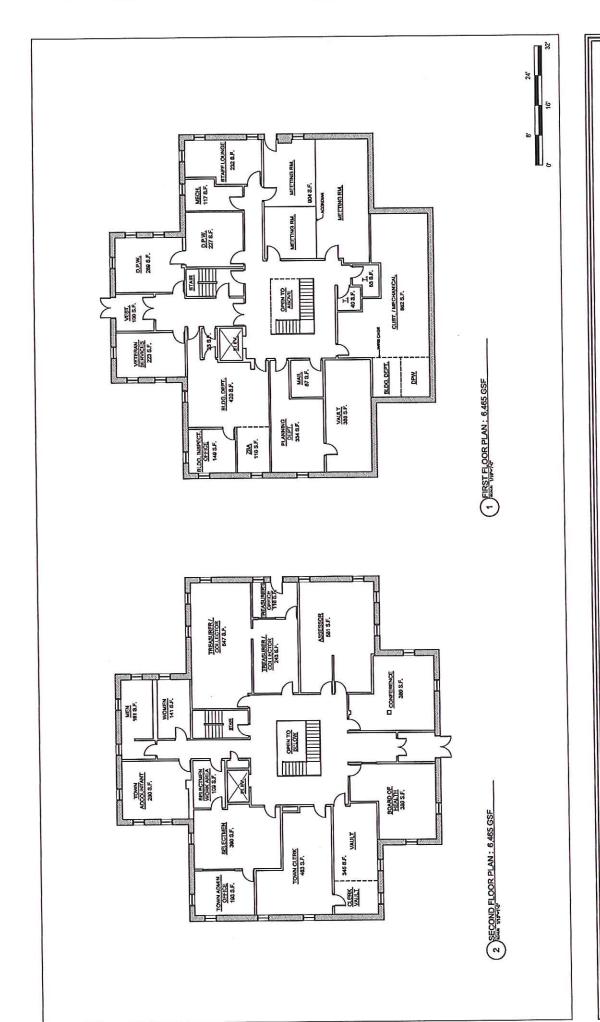
PEMBROKE, MASSACHUSETTS PEMBROKE COMMUNITY CENTER STUDY



PEMBROKE COMMUNITY CENTER PEMBROKE, MASSACHUSETTS

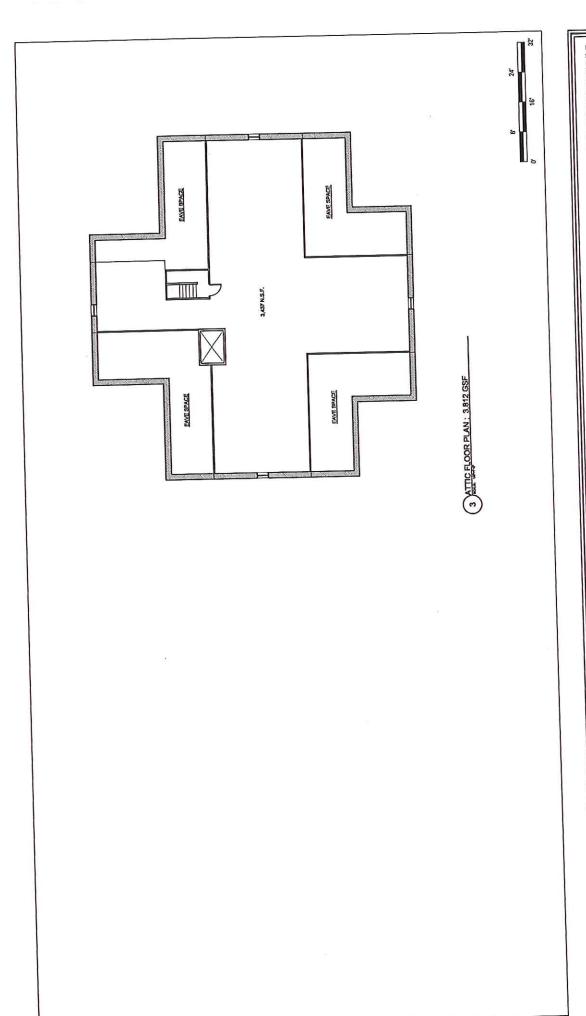
SII / RDA ing Inc. Raymond Design Associates, Inc.

EXISTING CONDITIONS PLANS



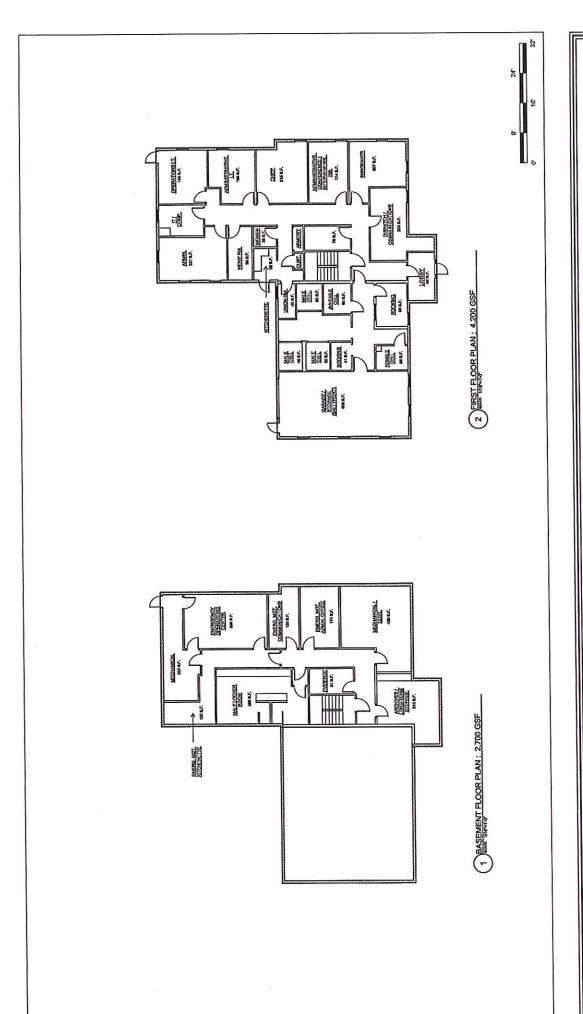
EXISTING CONDITIONS PLANS

PEMBROKE TOWN HALL PEMBROKE, MASSACHUSETTS



PEMBROKE TOWN HALL PEMBROKE, MASSACHUSETTS

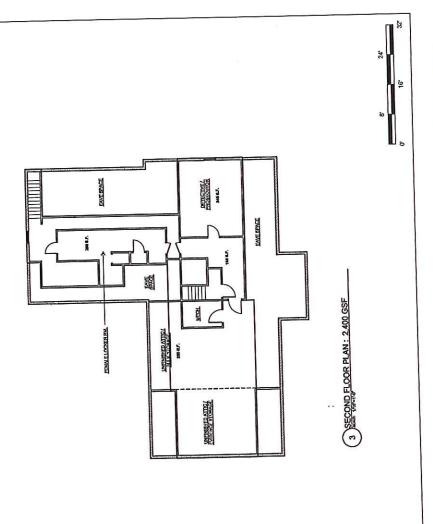
EXISTING CONDITIONS PLANS



PEMBROKE POLICE STATION PEMBROKE, MASSACHUSETTS

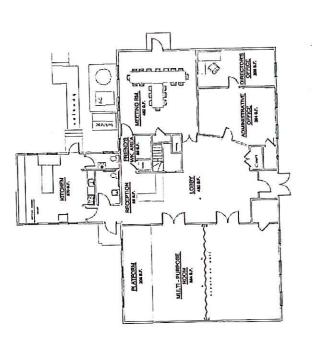
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EXISTING CONDITIONS PLAN



EXISTING CONDITIONS PLAN

PEMBROKE, MASSACHUSETTS PEMBROKE POLICE STATION



PEMBROKE COUNCIL ON AGING PEMBROKE, MASSACHUSETTS

EXISTING CONDITIONS PLAN

FIRST FLOOR PLAN: 3,730 GSF

SPACE NEEDS

Overview of Twenty Year Space Needs for Municipal Departments
Pembroke Community Center Study
CBI/RDA Architects

August 10, 2006

The following space needs projections are based upon programatic and staffing needs projections as determined by departmental administrators

Incr. %

Required Increase Gross SF

20 Yr. Projected Gross SF

Net to Gross Ratio

20 Yr. Program <u>Net SF</u>

Existing Dept! Net SF

Existing Building's Gross SF

Town Hall

| if attic is renovated if attic is NOT renovated | g . • | e e e | | End (4 | 20 |
|----------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------|------------------------------|
| 1,852 11% if 5,652 34% if | 10,913 117% | 6,760 144% | 8,397 86% | 22 574 83% | |
| 18,582 | 20,213 | 11,450 (still under review by coa) | 18,197 | | 68,442 |
| 1.50 | 1.45 | 1.25 | 1.41 | | |
| 12,388 | 13,940 | 9,160 | 12,906 | | 48,394 |
| 8,369 | 6,415 | 4,105 | 7,016 | | 25,905 |
| 6465 6465 3800 16,730 | 4200 2400 2700 9,300 | 3730 960 4,690 | 9,800 | 35,332 | 40,520 |
| Town Hall lower level upper level potential attic total: | Police Department first floor second floor basement total: | Senior Center first floor basement (960 gsf mech) total: | Community Center recreation dept. upper level community use upper level | community use lower level total gsf: | Town-Wide Departmetal Total: |

Pembroke Town Hall Space Program Pembroke Community Center Study CBI/RDA Architects

May 3, 2006

(Revised for inclusion in final report August 10, 2006)

| | | | | 30 | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--------------------------------|----------------------------------------|---------------------------------------|--------------------------------|---|-------------------|-----------------------|------------------|-------|--------------|-----------------------|---------------------------|----------------|--------------------------------------|---------------------|------------------|------------------------|------------------------|----------------|-----------------|----------------|-----------------|-------------------------------------------|--------------------------------|-----------------------------------|----|
| Comments | 2 | 1 include confarea | 2 create hrg rm & maintain work table | can be shared with other depts | | | 7 | | * | | | 3 existing office crowded | | currently located in mechanical room | | Υ | ო | , | | , | 7 | | 5 proposed could be 100 sf less if needed | double or triple cont capacity | | ă. |
| Programmed Net SF (20 yr need) | 300 | 250 | 390 | 120 | 7 | 150 | 300 | 100 | 150 | | 150 | 200 | 100 | 250 | | 150 | 450 | 009 | 100 | | 150 | 150 | 750 | 800 | 185 | |
| | 7 | _ | - | | • | - (| 7 | | | | ~ | 7 | | | | ~ | 7 | က | | | | - | 4 | | | |
| Existing Net SF (2006) | 280 | 195 | 390 | 110 | (| 0 | 385 | 80 | 150 | | 0 | 390 | 0 | 200 | | 115 | 245 | 450 | 100 | | 100 | 0 | 481 | 390 | 195 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e e | Upper Level Town Accountant | Selectmen town administrator office | administrative office | copy/work room | | town clerk office | administrative office | , public counter | vault | Bd of Health | health officer office | administrative office | public counter | dead files | Treasurer/Collector | treasurer office | treasurer admin office | collector admin office | public counter | Bd of Assessors | public counter | assessor office | administrative office | Conference Room | Upper level Vault for other depts | |
| | | | | | | | | 1 | 3_2 | | | | | | | | | | | | | | | | | |

Pembroke Town Hall Space Program Pembroke Community Center Study CBI/RDA Architects

May 3, 2006 (Revised for inclusion in final report August 10, 2006)

| | Existing Net SF (2006) | Programmed Net SF (20 yr need) | Comments | 5.15 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Lower Level Veterans Affairs | 225 | 225 | assumes doesn't move off site | |
| DPW director office | 225 | 1, 300 | 2 add assist dir | 5 |
| administrative office | 190 | 2 350 | n | |
| public counter | 80 | 300 | move expensive equip to town hall | |
| storage | 00 | | | |
| Building | 110 | 1 300 | 1 would like to have bd meetings in rm like planning | |
| zba zba storage | 0 | 80 | | |
| Zba Storago | 80 | 100 | | |
| public coulited | 150 | 1 150 | | |
| blag IIIsp office | 360 | 3 600 | 4 will need another work station + more active liles | ś |
| bldg dept storage | 80 | 160 | required to keep plans torever by law flow | |
| Planning Board | | | | |
| planner office | 0 | 0 150 | Consideration Lateral American | |
| plannel office | 335 | 1 450 | 1 enlarge room for bd meetings | |
| I ower level Vault for shared depts | 368 | 368 | | |
| Charles against a second and a second a second and a second a second and a second a second and a | 230 | 250 | The second secon | |
| Divisorbe Hearing Rm | 006 | 1800 | double meeting capacity | |
| Moil Dm | 85 | 120 | . T | |
| Mechanical/Custodial (2 rms) | 615 | 200 | | 14 |
| Total: Net Square Footage: | 8369 | 12388 | i. | |
| Gross Square Footage | 12930 | 18582 | | |
| Net to Gross Ratio | 1.54 | 1.50 | | |

Town Hall - Page 2 of 2

Pembroke Police Department Space Program Pembroke Community Center Study CBI/RDA Architects

May 3, 2006 (Revised for inclusion in final report August 10, 2006)

| Pembroke Proposed Comments | bullet resistant window for dispatch, 2 vending mach's, counter for filling out forms. | seats for wait'g required by code for energy conservation 1 male, 1 female required for public service | and traning room support - 2 @ 50 st ea plan for 25 occ's in public area - should | five mobile 4x3 work stations for emerg ops. | - dpw, in, state poince, one wresti'g mats, suits, strike pads, seats, | tables not required not required for use if called in off road direct public access - set up for 3 people - 1 officer + 2 civs not required computer + camera req'd |
|----------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pembroke Existing Comments | | no counter, no public amenities none | none existing is in basement - not available for | public use (see Operations) | none | in mechanical room - not appropriate none none - bring public into administrative conference rm in secure area none none |
| Difference | | 208 | 100 | . 675 | 100 | .80 0 0 0 120 120 |
| Pembroke Program | | 300 200 | 100 | 675 | 100 | 80 0 0 60 120 0 120 |
| Existing Pembroke | | 92 | 0 | 0 | 0 | 0000 000 |
| | Public Access | Lobby Vestibule | Public Rest Rooms - 2 @ 50sf | Public Community / Training Room | modular work area storage for emerg mgt ops | equipment storage a/v room for training/public use kitchen alcove work area for station officer Lobby Interview Room #1 Lobby Interview Room #2 FID Processing Access Subtotal: 1,625 net sq ft |
| | | | | | | 3-4 |

Pembroke Police Department Space Program Pembroke Community Center Study CBI/RDA Architects

May 3, 2006 (Revised for inclusion in final report August 10, 2006)

| | .80 | a . |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pembroke Proposed Comments | not required 2 consoles, 1 sgt wk station, 4 lckrs, access fir, kitchenette and toilet rm unisex is ok adjacent to dispatch, open alcove remote secured room is acceptable no need for separate lobby window, adj to admin assist, compact shlvg provide station in com center not required | two stations separate room not required dedicated conf rm for adminstrative use not required mail in squad rm boxes / copy with admin not required conf table with 4 seats not required until get to 40 sworn officers |
| Pembroke Existing Comments | none does not have bullet resistant window, dedicated kitchenette or toilet rm none basement basement none - officers called in off the road if requested none adjacent to squad room if possible | two stations in the admin office shared use as interview and break rm none none in the admin office none none none none none none |
| Difference | 0 20 0 0 0 0 0 | 150 150 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Pembroke <u>Program</u> | 2 400 50 20 0 0 0 | 250 155 40 0 0 0 10 10 0 0 0 0 0 0 0 0 0 0 0 0 |
| Existing Pembroke | 220000000000000000000000000000000000000 | 227 0 174 0 0 0 10 0 0 |
| | Public Interaction Volunteer Greeter Comm. Center / Dispatch / 911 dedicated toilet dedicated break room / kitchenette 911 equipment Records (traffic) Station Officer Communications Supervisor Office Shift Commander Interaction Subtotal: 470 net sq ft | Administration Administration Administrative Assistant / Waiting Active Records Administrative Conference General Admin Storage Archives Vault Copy / Mail Station Mail Room Chiefs Office closet toilet Deputy Chiefs Office |

Pembroke Police Department Space Program

Pembroke Community Center Study CBI/RDA Architects

May 3, 2006 (Revised for inclusion in final report August 10, 2006)

| | Pembroke Pembroke | L | Program | | Difference | Pembroke Existing Comments | Pembroke Proposed Comments |
|---------------------------------------------------|----------------------|--------------|---------|--------------|------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *** | 9 | 1 | į. | d | , | | e. |
| Administrative Lieutenant Office | 166 | - | 150 | - | -16 | | ¥ |
| 1000 | 0 | | 10 | | 10 | | |
| Administration Corporat Office | 0 | | 0 | | 0 | none | not required |
| Administrative Sergean Cinco | 0 | _ | 150 | - | 150 | shared with detectives | locate near records and admin assistant comm policing / traffic / elder affairs / sro / |
| | c | c | 350 | 4 | 350 | euou | dare / etc |
| Flexible Office Space W/ cubicles 101 Specialists | o c |) | 40 | a | 40 | none | storage for materials only - no office area |
| Storage for safety / trainc / date / etc | o c | ş | ? c | | ç | one | not required - use flexible office space |
| Highway Safety Office | 0 0 | | o c | | | 9 9 9 | not required - use flexible office space |
| Elder Services Officer | 0 | | > | 1.0 | | 2 | and any office sharings for |
| Invinile Officer | 0 | 0 | 0 | _ | 0 | none | northead and a margin and a mar |
| Sakool Besource Officer | 0 | 0 | 0 | - | 0 | none | provide juvinile/status offender suite |
| Collocation / Dragogutor | 345 | | 0 | | -345 | e e e e e e e e e e e e e e e e e e e | |
| Defectives / Flosecutor | c | τ- | 350 | 4 | 350 | prosecuter has a desk also - four desks | 40 |
| Detectives | o c | | 25 | | 25 | none | for active cases |
| detective evidence rm | o | | 3 0 | | | 9000 | not required |
| id + equipment storage | 0 | , | o (| , | > (| | |
| Detective Sat / Supervisor Office | 0 | 0 | 120 | - | 120 | none | odi to del's one-way class, sound + video |
| Detectives Intentiew Room | 0 | | 120 | | 120 | none | adjito dotto, one darkoning capacity |
| Letomoration Mouning | 0 | | 0 | | 0 | none | one-way glass w/ IIII daine apaca |
| Interrogation viewing | c | | 120 | | 120 | none | warm decor |
| Detectives Interview Rooff (Victimis) | o C | | 120 | | 120 | use detectives office | privacy needed |
| Sexual Assault/Dom Violence Office | o c | | į c | | 0 | none | not required |
| Crime Lab | o | | | | | located on first floor admin area | |
| Toilet Rooms - 2 @ 50sf | 126 | | 100 | | 97- | | |
| Coffee Alcove | 52 | | 20 | | 7. | located in corridor to rear door | |
| Mis / IT Office | 0 | | 120 | | 120 | none | not required |
| Admin Subtotal: 2 680 net saft | | | | | | ř | |
| | | | | | 6 | | 2 |

Pembroke Police Department Space Program

Pembroke Community Center Study CBI/RDA Architects

May 3, 2006

(Revised for inclusion in final report August 10, 2006)

| Pembroke Proposed Comments | | ٠ | | | | 12 at tables + 1 sgt at front desk | 4 stations at counters with forms | | יים ובלתוו בת | not required | use public meeting room | | | stove ref sink 2 vending | 10,000 | | provide ventilation, tight tank for solvents | | in armony | | eviscent by between | מלחמים לייני מיני מיני מיני מיני מיני מיני מינ | (8) | can use new pd training room | * | determine many elements | Keep separate norm disparate | can use pd staff lounge | | | ¥ | | 10 OF |
|----------------------------|----|------------|-----------------------------------------|--------------------------------|------------|------------------------------------|-----------------------------------|------------------------------|---------------------|----------------------|------------------------------|-----------------------|--------------------------------------|-------------------------------------|-------------------------------------|------------------|----------------------------------------------|----------------------------------|----------------------------|--------------|------------------------|------------------------------------------------|----------------------------------------------------------|------------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|------------|-----------------------------|--------------|-------------------------------------|
| Pembroke Existing Comments | | | assumed between chief and corner office | none | 5 ptl sats | 000 | מוכט מיי ממטף מיימי | | none | попе | | converted attic space | space themesed 'their cot' of before | located in too-tight basement about | make use of microwave in admin coni | none | hallway closet - no cleaning | in garage | 9 00 | | auou | none | none - at dpw | political for training | also used by policy defining | | dedicated communications rm | space in basement | use inappropriate mech space | none | | | |
| Difference | | | -35 | 9 | 145 | 37.0 | 517 | 1725 | -80 | 0 | 0 | c | 0 . | 190 | 200 | 450 | 66 | c | | 5 (| 0 | 0 | 0 | į | -325 | 0 | 0 | -100 | 100 | 000 | 300 | <u>n</u> | |
| \ \ \ \ | | | - | | ư |) | | | | | | * | , | 10 | | | | | | | | | | | | | | | | | | | |
| Pembroke Program | | | 150 | 10 | | | 6/7 | 125 | 0 | 0 | C | | | 1 550 | 200 | 450 | 120 | <u> </u> | 0 0 |) | 0 | 0 | 0 | 9 | 0 | 175 | 130 | c | 5 | 2 6 | ر در در | 09 | |
| - el | | | Υ | | ц | O. | | | | | | C | V | 4 | | | | | | | | | | | | | | | | | | | |
| Existing Pembroke | *) | | 185 | C | 300 | 602 | . | 0 | 80 | C | o c | | 760 | 360 | 0 | C | , 5 | 4 0 | o (| 0 | 0 | 0 | 0 | | 325 | 175 | 130 | 50.7 | 8 |) (| э ! | 45 | |
| | | Onerations | Operations Lieutenant Office | Operations reconciliant office | closet | Patrol Sergeants | Roll Call / Squad Room | Renort Writing / Law Library | Donot Forms Storage | Report Forms Storage | Operations Conference Apolii | Training Room | Female Locker Room / Toilet / Shower | Male Locker Room / Toilet / Shower | Water Towns | Kilcheil / Diean | Physical Iraining | Weapons Cleaning / Armory / SWA1 | 2 Patrol Equipment Storage | SWAT Storage | Abandoned Firing Range | Aballaciesg range | Filling Range Animal Control Officer Storage / Office | Emergency Management | Emergency Ops Center | | | Communications Km | Kitchen | Storage | Auxiliary PD Office/Storage | Union Office | Operation Subtotal: 3,255 net sq ft |

3-7

Pembroke Police Department Space Program Pembroke Community Center Study CBI/RDA Architects

May 3, 2006

(Revised for inclusion in final report August 10, 2006)

| ** | | | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pembroke Proposed Comments | adjacent to sallyport and near 'operations'; table, scales, computer, sm sink, secure evidence lockers and refridgerator adjacent to operations and detention areas | | not required separate rm not required not required 2 booking stations. prisoner storage 3 @ 50sf + 1.hp @ 70; separate corridor from juv and female 1 @ 50sf + 1 hp @ 70; separate corridor from juv and male 1 hp @ 70; combine w/sro and status offender hldg entry off corridor and booking, tv, bolted down furnishings attorney access from corridor, adj to bkg attorney access from corridor, adj to bkg attorney access from corridor, adj to bkg off booking, serves all prisoners provide site/sound recording @ sallp*t, bk'g & cells |
| Pembroke Existing Comments | | | currently use garage - dangerous none located in booking none two rms + corridor no accessible cells not accessible not and accessible none none none none none none none |
| Difference | 0 220 30 30 -325 | | 910 0 100 100 2 2 64 7 7 7 100 120 120 60 80 |
| Pembroke Program | 300 300 300 | | 910 0 100 0 400 1 1 120 120 120 60 60 |
| Existing <u>Pembroke</u> | 0 80 0 0 625 | | 000000000000000000000000000000000000000 |
| 5 | dence Evidence Intake / Processing Evidence Storage generic drugs/money/firearms refrigerated storage | Evidence Subtotal: 660 net sq ft | Secure Sallyport Sallyport Sallyport Sallyport Evidence Bay Breathalyzer Holding Cell Booking Room / ID Male Detention Juvenile Detention Juvenile Detention Juvenile/Fernale Matron Status Offender Holding Attorney/Detainee Interrogation / Bail Comm'r Interrogation Viewing Detention Storage Detention Storage Detention Storage Detention Storage |
| | Evidence Eviden Eviden ger dru refr | a led in | Secure Sallypo Breatha Holding Booking Male D Female Juvenil Juvenil Status Attorne Interro Detent Detent Detent Detent Detent Detent Detent Secure Secure Secure Detent D |

Pembroke Police Department Space Program Pembroke Community Center Study CBI/RDA Architects

May 3, 2006 (Revised for inclusion in final report August 10, 2006)

| Pembroke Proposed Comments | 2 garage bays not required not required bicycles, etc - held for 12 mos. |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pembroke Existing Comments | attic space acts as sallyport - dangerous none none none none none none doubles as storage basement custodial space |
| Difference | -50 590 0 0 600 0 0 75 75 75 75 75 30 0.5 -315 |
| Pembroke Program | 200 1200 0 300 600 0 0 75 75 75 150 250 100 6,273 6,273 |
| Existing Pembroke | 250 610 0 0 210 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| | Support Facilities Department Bulk/General Storage Garage / Light Maintenance / Impound / Stor Stolen Goods / Vehicle Maint Supply Garage Bicycle Patrol Garage / Vehicle Maint Supply Mechanic Workroom / Office Archives / Long Term Records Storage Recovered Property Future Expansion (unfinished) Support Subtotal: 2,300 net sq ft Sprinkler Service / Water Meter Room Electric Room Electric Room IT / Computer Room Boiler Room Building Maintenance Supplies / Cust Office Phys Plant Subtotal: 650 net sq ft Net Square Footage Net to Gross Multiplier Total Gross Square Footage Net to Gross Ratio |

Pembroke Recreation Department and Community Use Space Program

Pembroke Community Center Study CBI/RDA Architects

May 3, 2006

(Revised for inclusion in final report August 10, 2006)

| | × | * | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------|
| Comments | 3 add assist dir and use for clerk and rec comm mtgs 1 add pool table, don't move air hockey enlarge for regulation games chairs and folding tables stored in hallway snowblower, maintainence 5 | 2890 | |
| Programmed Net SF (20 yr need) | 1 175 3 536 500 1 120 1800 620 670 1800 5000 400 350 675 60 | 12906 | 1.41 |
| Existing Net SF (2006) | 536 0 80 200 200 670 670 670 180 350 400 | 7016 | 1.4.1 |
| | Recreation Dept director office director/clerk/work room clerk/work room playground dir office multi-purpose/tutorial game room crafts room day/meeting rm fitness room gymnasium stage storage storage outdoor shed storage | Total: Net Square Footage: Gross Square Footage | Net to Gross Ratio |

Pembroke Recreation Department and Community Use Space Program

Pembroke Community Center Study CBI/RDA Architects

May 3, 2006 (Revised for inclusion in final report August 10, 2006)

| | ¥n | | | | | |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------|--|
| nents | offices, kitchen, etc n/incl toilet rms office | | under stage under stage | | | |
| Comments | offices | | nnde | ÿ | | |
| Programmed Net SF (20 yr need) | 33.33.33.33.33.33.33.33.33.33.33.33.33. | 8.8 | 33333 | | | |
| 90 | | | | | 27 | |
| Existing Net SF (2006) | 7180 1320 3200 335 | 2550 330 | 640 920 815 250 250 250 | 18040 | 25436 | |
| | Leased to Hockey lower bingo hall (cafeteria) other ground floor upper bingo hall other upper floor (hockey = 12035 nsf existing) | Center Pre-School classrooms office (pre school = 2880 nsf existing) | Other community toy room food pantry adelphia cable co disability commission ted williams baseball storage pop warner football storage (other = 2135 nsf existing) | Total: Net Square Footage: | Gross Square Footage Net to Gross Ratio | |

Pembroke Senior Center Space Program

Pembroke Community Center Study CBI/RDA Architects

May 3, 2006 (Revised for inclusion in final report August 10, 2006)

| | į. | 接受 | w [*] | ± € | * |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Comments | divisible into 3 or 4 program rooms | existing size is adequate - warming kitchen accessible serve 50 @ 15st/person (serves 20 now) | set up permanently with computer equipment set up permanently with exercise equipment 3 @ 80 for visiting professionals | includes 400 mech and 500 storage Say 12,000 gsf for 20 yr program need (low according to state standards) | £ |
| Programmed Net SF (20 yr need) | 45 350 20 20 120 100 80 200 200 | 160 370 60 60 50 750 100 460 | 900 900 240 600 180 205 | 900 9160 11450 | |
| Interim Net SF (w/ addition) | 45 355 20 50 90 0 65 885 200 | 40 370 0 0 35 585 0 | 0 0 0 295 90 205 | 900 4690 5358 | |
| Existing Net SF (2006) | 480 20 20 90 90 0 885 200 | 40 370 0 0 35 0 65 | 0 0 0 295 25 25 | 4105 | 1,000 to 100 to |
| | First Floor vestibule lobby storage closet accessible toilet reception counter gift shop/crafts display visiting doctor multi-purpose rm platform | storage kitchen dry storage trash room kitchen toilet rm lunch rm friends storage | large meeting rm #2 computer lab exercise rm private mtg rms administrative office storage director office | Basement mechanical and storage Total: Net Square Footage: Gross Square Footage | Met to close trend |

Pembroke Senior Center Space Program

Pembroke Community Center Study CBI/RDA Architects

May 3, 2006

(Revised for inclusion in final report August 10, 2006)

Miscellaneous

New Senior Centers average 6 sf/elderly person according to COA Director, in order to qualify for building grants from the commonwealth Present day elderly population is 2,400, and it's projected to double over the next ten to twenty years Existing gsf = 4,690, of which 960 gsf is unusable basement, leaving 3,730 usable gsf presently 28,800 gsf would project to a 7.72 fold increase in usable gsf over what exists now 28,800 gsf would project to a 6.42 fold increase in usable gsf over proposed interim usable gsf 4,800 projected elderly population \times 6 sf/person = 28,800 gsf within twenty years Senior Ctr would make use of a gymnasium if one was available Interim' gsf (including proposed lunch rm) = 4,480 usable gsf

DEVELOPMENT OPTIONS

Overview of Development Options A - F Pembroke Community Center Study CBI/RDA Architects

September 29, 2006 (Revised from May 3, '06 Draft# 3 for inclusion in final report)

| BOLDIItalic = Additions or N | lew Constr | Option A.1 | Option A.2 | Option B | Option C | Option D |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Municipal Offices | Required GSF 18,582 | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF |
| | | (all @ town hall) | (all @ town hall) | (split: t hall + pd) | (split: t hall + low'r cc) | w/attic (all @ rear of cc) |
| town hall - 1st floor | | 6465 | 6465 | 6465 | 0.405 | 12 |
| town hall - 2nd floor | 5 | 6465 | 6465 | 6465 | 6465 | 0 |
| town hall - renovate attic | | 3800 | 0 | 0465 | 6465 | 0 |
| addition at town hall | | 2000 | 5800 | 0 | 0 | 0 |
| permitting depts to police | blda | 0 | 0 | | 0 | 0 |
| permitting depts to lower of | | 0 | | 9300 | 0 | 0 |
| renovate upper commity of | | 0 | 0 | 0 | 10000 | 10000 |
| renovate upper commity of | | 0 | 0 | . 0 | 0 | 10000 |
| removate appear containty co | u nom | | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 |
| total | | 0 | 0 | 0 | 0 | 0 |
| totai | (40) | 18,730 | 18,730 | 22,230 | 22,930 | 20,000 |
| Recreation Dept & Other Community Uses | Required GSF | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF |
| The second secon | 18,197 | (share upper cc w/coa) | (share upper cc w/coa) | (upper cc w/ addt'n) | (upper cc w/ addt'n) | (front of comm'ty ctr) |
| Recreation add gymnasium/stage @ c | commity ctr law | 6500 | 6500 | 2500 | 222 | 71 |
| renovate lower comm'ty ct | | 0 | 6500 . | 6500 | 6500 | 6500 |
| renovate upper commity ct | | | 0 | 0 | 0 | 0 |
| new building | T HORK | 12100 | 12100 | 11697 | 11697 | 11697 |
| | | 0 | 0 | 0 | 0 | 0 |
| subtotal - recreation | | 18,600 | 18,600 | 18,197 | 18,197 | 18,197 |
| Other Community Use | | | | 9 | | |
| community aud @ comm'ty | ctr gym | 0 | 0 | . 0 | 0 | |
| center presch @ comm'ty | | 0 . | Ö | 4061 | 0 | 0 |
| food pantry @ existg snr c | | 920 | 920 | 920 | 920 | 0 |
| adelphia @ existing snr ctr | | 815 | 815 | 815 | 815 | 920 |
| toy room @ existing snr ct | | 640 | 640 | | | 815 |
| hockey @ upper comm'ty of | | 0 | 0 | 640 | 640 | 640 |
| hockey @ lower comm'ty o | | 9000 | 9000 | 0 | 0 | 0 |
| AND | | (Constitution) | 1 100 100 100 100 100 100 100 100 100 1 | 0 | 0 | 0 |
| subtotal - other uses | | 11,375 | 11,375 | 6,436 | 2,375 | 2,375 |
| BOLD/Italic = Additions or No | ew | Option A.1 | Option A.2 | Option B | Option C | Option D |
| | | | | | | |
| Police Dept | Required GSF | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSE |
| Police Dept | Required GSF 20,213 | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF |
| Police Dept | The state of the s | Proposed GSF (add/reno @ pd) | (new station) | Proposed GSF (rear of comm'ty ctr) | Proposed GSF (new station) | Proposed GSF (new station) |
| Police Dept | The state of the s | CHILLS IS SERVED TO CONTRACT SERVED ON | 26-270 Jan 82 82 | | VES | 5.0 V. 3 5 .0 V. 5.0 W. 5.0 W. 5.0 V. 5.0 V |
| Police Dept | The state of the s | (add/reno @ pd) | (new station) (demo exist'g pd) | (rear of comm'ty ctr) | (new station) (demo exist'g pd) | (new station) (demo exist'g pd) |
| renovale 1st floor | The state of the s | (add/reno @ pd) | (new station) (demo exist'g pd) 0 | (rear of comm'ty ctr) | (new station) (demo exist'g pd) 0 | (new station) (demo exist'g pd) 0 |
| | The state of the s | (add/reno @ pd) 4200 2400 | (new station) (demo exist'g pd) 0 0 | (rear of comm'ty ctr) 0 0 | (new station) (demo exist'g pd) 0 0 | (new station) (demo exist'g pd) 0 0 |
| renovate 1st floor renovate 2nd floor | The state of the s | (add/reno @ pd) 4200 2400 2700 | (new station) (demo exist'g pd) 0 | (rear of comm'ty ctr) 0 0 0 | (new station) (demo exist'g pd) 0 0 | (new station) (demo exist'g pd) 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition | The state of the s | (add/reno @ pd) 4200 2400 2700 11000 | (new station) (demo exist'g pd) 0 0 | (rear of comm'ty ctr) 0 0 0 0 | (new station) (demo exist'g pd) 0 0 0 | (new station) (demo exist'g pd) 0 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station | 20,213 | (add/reno @ pd) 4200 2400 2700 11000 0 | (new station) (demo exist'g pd) 0 0 0 20000 | (rear of comm'ty ctr) 0 0 0 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 | (new station) (demo exist'g pd) 0 0 0 0 20000 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr | 20,213 | (add/reno @ pd) 4200 2400 2700 11000 0 | (new station) (demo exist'g pd) 0 0 0 20000 | (rear of comm'ty ctr) 0 0 0 0 0 0 10000 | (new station) (demo exist'g pd) 0 0 0 0 20000 | (new station) (demo exist'g pd) 0 0 0 20000 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower commity ctr renovate upper commity ctr | 20,213 | (add/reno @ pd) 4200 2400 2700 11000 0 0 | (new station) (demo exist'g pd) 0 0 0 20000 0 | (rear of comm'ty ctr) 0 0 0 0 0 10000 10000 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor | 20,213 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 | (rear of comm'ty ctr) 0 0 0 0 0 10000 10000 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower commity ctr renovate upper commity ctr | 20,213 | (add/reno @ pd) 4200 2400 2700 11000 0 0 | (new station) (demo exist'g pd) 0 0 0 20000 0 | (rear of comm'ty ctr) 0 0 0 0 0 10000 10000 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower commity ctrenovate upper commity ctrown hall - 1st floor town hall - 2nd floor | 20,213 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 | (rear of comm'ty ctr) 0 0 0 0 0 10000 10000 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor addition at town hall | 20,213 | 4200 2400 2700 11000 0 0 0 | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 | (rear of comm'ty ctr) 0 0 0 0 0 10000 10000 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor addition at town hall | 20,213 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 | (rear of comm'ty ctr) 0 0 0 0 0 10000 10000 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower commity ctr renovate upper commity ctr town hall - 1st floor town hall - 2nd floor addition at town hall | 20,213 rear rear Required GSF | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 20,300 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 0 20,000 | (rear of comm'ty ctr) 0 0 0 0 0 10000 10000 0 0 20,000 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 20,000 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 20,000 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower commity ctr renovate upper commity ctr town hall - 1st floor town hall - 2nd floor addition at town hall total | 20,213 rear rear Required GSF | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 20,300 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (rear of comm'ty ctr) 0 0 0 0 10000 10000 0 0 20,000 Proposed GSF (@ new building) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 Proposed GSF (@ exist town hall) (decommission exist'g) |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor town hall - 2nd floor addition at town hall total Senior Ctr / COA | 20,213 rear rear Required GSF | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (rear of comm'ty ctr) 0 0 0 0 10000 10000 0 0 20,000 Proposed GSF (@ new building) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 Proposed GSF (@ exist town hall) (decommission exist'g) |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor town hall - 2nd floor addition at town hall total Senior Ctr / COA upper comm'ty ctr front new building | Required GSF 11,450 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (rear of comm'ty ctr) 0 0 0 0 10000 10000 0 0 0 20,000 Proposed GSF (@ new building) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 Proposed GSF (@ exist town hall) (decommission exist'g) |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor addition at town hall total Senior Ctr / COA upper comm'ty ctr front new building renovate existing town hall | Required GSF 11,450 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 20,300 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (rear of comm'ty ctr) 0 0 0 0 10000 10000 0 0 20,000 Proposed GSF (@ new building) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (@ exist town hall) (decommission exist'g) 0 0 6465 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor town hall - 2nd floor addition at town hall total Senior Ctr / COA upper comm'ty ctr front new building | Required GSF 11,450 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (rear of comm'ty ctr) 0 0 0 0 10000 10000 0 0 0 20,000 Proposed GSF (@ new building) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (@ exist town hall) (decommission exist'g) 0 0 |
| renovate 1st floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor addition at town hall total Senior Ctr / COA upper comm'ty ctr front new building renovate existing town hall | Required GSF 11,450 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 20,300 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (rear of comm'ty ctr) 0 0 0 0 10000 10000 0 0 20,000 Proposed GSF (@ new building) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (@ exist town hall) (decommission exist'g) 0 0 6465 |
| renovate 1st floor renovate 2nd floor renovate 2nd floor renovate basement addition new police station renovate lower comm'ty ctr renovate upper comm'ty ctr town hall - 1st floor town hall - 2nd floor addition at town hall total Senior Ctr / COA upper comm'ty ctr front new building renovate existing town hall renovate existing town hall | Required GSF 11,450 | (add/reno @ pd) 4200 2400 2700 11000 0 0 0 0 0 20,300 Proposed GSF (share upper cc w/rec) 11450 0 0 0 | (new station) (demo exist'g pd) 0 0 0 20000 0 0 0 0 0 0 20,000 Proposed GSF (share upper cc w/rec) 11,450 0 0 0 | (rear of comm'ty ctr) 0 0 0 0 10000 10000 0 0 20,000 Proposed GSF (@ new building) 0 11450 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (share upper cc w/rec) 11450 0 0 0 | (new station) (demo exist'g pd) 0 0 0 0 20000 0 0 0 0 0 0 0 0 Proposed GSF (@ exist town hall) (decommission exist'g) 0 6465 6465 |

Overview of Development Options A - F Pembroke Community Center Study CBURDA Architects

September 29, 2006 (Revised from May 3, '06 Draft # 3 for inclusion in final report)

| BOLD/Italic = Additions or New | Option E1 / E2 | | Option F.2 | Option F.3 |
|--------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------------------|------------------------------------------|
| | (Option E.2: sub 2 story comm'ty ctr fo | r 1 story) | | |
| Municipal Offices Required | 18,582 | Proposed GSF | Proposed GSF | Proposed GSF |
| | (all @ upper cc) | (front of cc w/ addition) | (front of cc w/ addition) (decommission exist'g) | (all @ th w/ addition |
| town hall - 1st floor | . 0 | 0 | 0 - | 6465 |
| town hall - 2nd floor town hall - renovate attic | 0 | (4) | | 6465 |
| addition at comm, cntr, | 0 | 0 | 0 | 0 |
| permitting depts to police bldg | 0 | 4000 | 4000 | 5800 |
| permitting depts to lower comm'ty ctr rear | 0 | 0 | 0 | 0 |
| renovate upper commity ctr rear | . 10000 | 0 | 0 | 0 |
| renovate upper comm'ty ctr front | 10000 | 0 14000 | 0 | 0 |
| | . 0 | 0 | 14000 0 | 0 |
| | 0 | ō | 0 | 0 |
| total | 20,000 | 18,000 | 18,000 | 18,73 |
| Recreation Dept & Required | CCC D. Loos | | 200 | |
| | 18,197 | Proposed GSF | Proposed GSF | Proposed GSF |
| Recreation . | (@ new building) | (@ new building) | (@ new building) | (@ new building) |
| add gymnasium/stage @ comm'ty ctr low renovate lower comm'ty ctr rear | 0 | . 0 | 0 | 0 |
| renovate lower commity ctr rear | 0 | . 0 | 0 | 0 |
| new building | 18000 | 0 | 0 | 0 |
| - | 18000 | 18000 | 18000 | 18000 |
| subtotal - recreation | 18,000 | 18,000 | 18,000 | 18,00 |
| Other Community Use | | | | |
| community aud @ comm'ty ctr gym | 4000 | 0 | 0 | 0 |
| center presch @ new rec/coa (pd in Opt E | + F.1) 4061 | 4061 | 4061 | 4061 |
| food pantry @ new rec/coa (pd in Opt E + F | F.1) 920 | 920 | 920 | 920 |
| adelphia @ new rec/coa (pd in Opt E + F.1 | E 51 | 815 | 815 | 815 |
| toy room @ new rec/coa (pd in Opt E + F.1 | • | 640 | 640 | 640 |
| hockey @ upper comm'ty ctr rear hockey @ lower comm'ty ctr rear | 0 | 0 | 0 | 0 |
| noncy @ lower continue of rear | 10000 | 0 | 0 | 0 |
| subtotal - other uses | 20,436 | 6,436 | 6,436 | 6,43 |
| OLD/Italic = Additions or New | Option E1 + E2 | Option F.1 | Option F.2 | Option F.3 |
| olice Dept Required 0 | GSF Proposed GSF | Proposed GSF | Proposed GSF | Proposed GSF |
| я Э | (exist'g t.h. w/ addition) | (exist'g t.h. w/ addition) | (new station) (demo exist'g pd) | (new station) (demo exist'g pd) |
| renovate 1st floor | 0 | 0 | 0 | - 10 |
| renovate 2nd floor | o | 0 | 0 | 0 0 |
| renovate basement | 0 | 0 | ő | 0 |
| addition | 0 | O | 0 | 0 |
| new police station | 0 | 0 | 20000 | 20000 |
| renovate lower comm'ty ctr rear | 0 | 0 | 0 | 0 |
| renovate upper comm'ty ctr rear | 0 | 0 | 0 | 0 |
| town hall - 1st floor | 6465 | 6465 | 0 | 0 |
| town hall - 2nd floor addition at town hall | 6465 7600 | 6465 7600 | 0 - | 0 0 |
| total | 20,530 | ### (1997) | **** | 250 |
| * | 20,530 | 20,530 | 20,000 | 20,000 |
| enior Ctr / COA Required G | SSF Proposed GSF 1,450 | Proposed GSF | Proposed GSF | Proposed GSF |
| | (@ new building) (decommission exist'g) | (@ new building) (decommission exist'g) | (@ new building) (decommission exist'g) | (@ new building) (decommission exist) |
| upper comm'ty ctr front | • | - | 628 628 | |
| new building | 0 11450 | 0 | 0 | 0 |
| renovate existing town hall 1st fi | 11450 O | 11450 | 11450 | 11450 |
| renovate existing town hall 2nd fl | o | 0 | 0 0 | . 0 |
| total | 11,450 | 11,450 | 11,450 | 11,45 |
| | | 120 T | 15-21 4 -0.715 | , ,,,,, |
| | | | | |
| otal Proposed GSF: | - 90,416 | 74,416 | 73,886 | 74,616 |

4-2

