SECTION 4: PROPOSED CAMPUS DEVELOPMENT PLAN

The site analysis as illustrated in the exhibits described in Section 3, provided HCC and Mayhan Rykiel Associates the necessary information to develop the proposed Campus Development Plan both long term and short term. The following is a description of several diagrams and plans that illustrate the proposed campus development.

Exhibit 10 - Concept Diagram: This diagram illustrates generalized "concepts" for how the campus might expand in the short-term and beyond the next ten years. Opportunities to expand the immediate core area include the hillside area between the ARCC and the campus core and between the front parking areas and the campus core. More significant expansion opportunities extend to areas beyond the loop road. These include the land to the southeast, near Robinwood Drive; the land to the northeast and the land to the west. Because of the proximity to the Mount Aetna Farm property and the new secondary access road, expansion to the west is the most logical. The land furthest to the north, separated from the campus core by significant drainage corridors, is the least suitable for campus expansion.

Exhibit 11 - Illustrative Campus Development Plan: The Campus Development Plan illustrates how the different program elements described in Section 2 might be located on the campus. There are multiple location possibilities for some facilities, particularly partnership projects. The Campus Development Plan outlines the ideal use(s) for each site/facility despite the fact that some are labeled generically "Future Building Site" on the plan.

<u>Arts and Science Complex (ASC):</u> This project consists of three buildings that will be completed in a two-phase construction project.

Phase I of the Arts and Science Complex will consist of a new 62,840 GSF five-story Science, Technology, Engineering and Mathematics (STEM) Building. Along with a variety of classrooms, computer labs and offices, the facility will provide a new look to campus, including the feel of a new "front door" long-term as traffic enters from the proposed second entrance road. Additionally, it will include significant pedestrian access into the Waltersdorf Quad. The new STEM building will house the following STEM labs:

- Physics
- Engineering
- Energy Technology
- Instrumentation and Controls
- Biology

- Microbiology
- Biotechnology
- Anatomy and Physiology
- Chemistry
- Organic Chemistry

Phase Two of the ASC project will be the renovation of the current Science Building, built in 1966, into the Learning Center, which will bring together the current Science, English and Math learning resources centers. The Learning Center will make available to

students computers, tutoring, and faculty assistance, as well as include classrooms and offices.

Also included in Phase Two of the ASC Project is the renovation of the Classroom Building that also was built in 1966. The Classroom Building will remain an academic building but it will be updated and refurbished. As part of the renovation, the student and faculty flow will be reconfigured for easier accessibility throughout the building to classrooms and offices.

<u>Performing and Visual Arts Education Center at Kepler Theater (PVAEC):</u> The PVAEC building will be the final component of the Arts and Science Complex. There will be an addition connected to the existing Kepler Theater that will extend to the northwest. The addition will run parallel to the top of the slope to screen the back of the Science Building to present a more positive image to the east and north.

The PVAEC addition will have music practice rooms, a dance studio that will double as a black box theater, a drawing studio, digital art computer labs and classrooms. As part of the project, the existing Kepler Theater will be refurbished, mechanical systems updated and backstage reconfigured for better use and storage. The new lobby, which will connect the existing theater to the addition, will also serve as a gallery for students, faculty and others to display their works of art. Through the renovation, HCC will be able to update life safety codes and expand the restroom space.

Robinwood Center: The 8,435 sf Robinwood Center was constructed in 1970. Though occupied by Washington County Public Schools for pre-K and kindergarten classes, the building is property of HCC. Renovation/refurbishment of the Robinwood Center will depend on a partnership to fund the Children's Learning and Teachers Education Center. If there is no partnership, the current Children's Learning Center (adjacent to the Administration and Student Affairs Building) will move to the renovated Robinwood Center.

<u>Administration/Student Affairs (ASA) Renovation:</u> Renovation to the existing ASA will take place in the area that will be vacated if the Children's Learning Center is moved into Robinwood Center. The renovation will create much needed office spaces for services to the students.

Student Center Expansion: The Student Center Expansion is shown to the south, utilizing a two-story addition to accommodate the change in topography. An outdoor terrace could extend off of the new addition, engaging students in one of the most attractive settings on campus. The Student Center Expansion will enlarge the Hilltop Grill, increase student meeting spaces and add offices for student services. The Dean of Student Affairs was relocated from the ASA Building in Spring 2010.

Children's Learning and Teacher Education Center (Partnership): The current Children's Learning Center (CLC) has been in operation in its current location adjacent to the Administration and Student Affairs Building since 1998. Outgrowing its current location, the logical location for this function is the Robinwood Center where it will be close to the campus core and easily accessible from the loop road. In the event of a partnership, the Robinwood Center could be expanded to the west. Such an extension, as illustrated, could have a presence on Academic Boulevard. Parking could be located to the south between the Center and the Loop Road (P-1). If there is no partnership, Robinwood Center will be renovated, using its current square footage, as the College's daycare center. An additional parking area (P-2) could be located on the opposite side of the loop road, if it is landscaped and set within the existing topography so that it does not negatively impact the campus image from Robinwood Drive.

<u>Campus Operations Building:</u> Ideally, campus operations will be located away from the campus core where the emphasis should be on instructional and academic space. Locations being considered are F-1 (located west of the baseball field) or F-2 (near the Mount Aetna Farm property on the east side of the campus). In addition, this location is to the western edge of the large eastern land bay, allowing for maximum development flexibility. At the time of detail site design, care should be given to maintaining a minimum 50' buffer of existing trees between the operations facility and the loop road. The operations that will be housed in this project would be Facilities, Maintenance, Custodial, Grounds, Security, Mailroom and Central Receiving.

Second Campus Entrance and Road Upgrades (Partnership): The second campus entrance road is located between the existing forest easements, connecting into the Mount Aetna Farm property approximately 800 feet to the north of its southern property line. This will allow for maximum flexibility in providing development potential on both sides of this roadway infrastructure. The plan shows it coming in just south of the southern façade of the new Arts and Sciences Complex. This will allow for a clear and direct pedestrian connection linking the Amphitheater area with the Waltersdorf Quad. In addition, both the Arts and Science Complex and new Performing and Visual Arts Education Center at Kepler Theater will be visible from the proposed secondary entrance.

A proposed second entrance by the County will come in from Robinwood Drive. It will relieve traffic congestion coming from the east, to a small extent, but it will not alleviate traffic coming from the northern and western Hagerstown via Eastern Blvd. and Jefferson Blvd. Additional access points may come from Yale Road to Varsity Drive depending upon development of the Mt. Aetna Farm property. Regardless, the College views a second entrance from Robinwood Drive to be an interim solution until a connection can be made from Eastern Blvd. or Jefferson Blvd.

<u>Consolidated Public Safety Training Center (Partnership)</u>: Hagerstown Community College will donate four to five acres for this project. There are several possible locations for this facility and it is not on Exhibit 11 because there are several "unknowns" at this

time. However, it should be noted that a burn tower, shooting range and driving range will be located off-site.

The total square footage identified to date is approximately 24,000 square feet, which includes two phases. Phase I includes 16,000 square feet at an estimated cost of \$8.2 million. Phase II would be constructed later and includes 8,000 square feet of additional space (\$4.4 million).

Advanced Technology Center (ATC) Renovations: Renovations to the existing ATC building will provide more classroom space and a more inviting atmosphere for student learning. These classrooms will help meet space requirements for computer related courses. Additional space will be available once the Maintenance, Custodial and Facilities Departments move to the new Campus Operations Building.

ARCC Roof, AC and HVAC Upgrade: Renovations to the Athletic Recreation Community Center will consist of a new roof, adding air conditioning and upgrading the HVAC. Currently there is no air conditioning in the arena, and its use is very limited in the summer. HCC, as well as area high schools, use this venue for their graduations and must schedule the events in early morning or evening because of the heat. At the time of upgrades to the systems, the roof will be over 20 years old and will need to be replaced.

<u>Alumni Center and Plaza:</u> The proposed Alumni Center will be located on Parcel 19 and will align to the Student Center. It will be a phased project houses meeting rooms and offices. A plaza will connect the Alumni Center to the Student Center, allowing pedestrian flow between the two buildings. Additionally, a new pathway system will be created through the adjacent valley.

Athletic, Recreational and Community Center (ARCC) Addition (Partnership):

Because of building layout, the logical location for expansion is to the southwest, off the main lobby. A two story addition would be likely to accommodate existing grade change. A pedestrian link could provide a connection between the ARCC and the new walkway at the Arts and Science Complex, along the edge of the lower parking lot. An additional expansion area is shown to the southeast (O-8), depending upon the actual amount of space needed.

<u>Parking Lot/Road Resurfacing and Upgrades:</u> The Campus Development Plan illustrates the potential realignment of the loop road so that it is located outside of the entire student parking area. However, realignment of the road in front of the ARCC is not financially feasible. Parking spaces could be re-oriented to run east/west, the direction that students are moving between their cars and the campus core.

Additional road improvements show a traffic circle at the intersection of the loop road and Academic Boulevard to provide better traffic flow. The plan also shows a realigned Robinwood Drive and two potential access points to the eastern portion of the campus

landholdings. Should this area of campus ever be developed, a second traffic circle might be considered where one of these access points intersects the loop road.

<u>Learning Resources Center (LRC) Renovations:</u> The current library housed in the LRC will be reconfigured. Designs of libraries of the future will reshape spaces for electronic media and web-based technology with a reduction in spaces for hard copy resources. The LRC renovation will be based upon enrollment. If Health Science, as well as Business and Accounting programs grow, the majority of course offerings will be relocated to the LRC, along with faculty who teach in those programs.

<u>Senior Citizen Center (Partnership):</u> The Senior Center will be located in close proximity to the ARCC, Amphitheater and other campus amenities. Though this parcel is close to other campus facilities, it is well defined as a separate parcel by trees and topography. In addition, this location will take advantage of its proximity to the Amphitheater with an attractive pedestrian linkage between the two. With the proposed second addition, the Senior Center will have easy accessibility.

Pull-Off Visitor Orientation Area: Two locations for a visitor orientation area are shown. The first is adjacent to Academic Blvd., beyond the intersection with the loop road. The loop road is too close to Robinwood Drive for the pull-off to be located between these two roads. The second location for a visitor orientation area is off the second entrance road, just inside the campus from the Mount Aetna Farm property. A kiosk will be part of the pull-off area. It will provide to visitors the campus at a glance with an automated system that highlights locations.

Housing (On and/or Off-Campus): Potential student housing is shown in the southwest corner of the property. This location is close to the campus core and the commercial services along Robinwood Drive. The other option is to locate student housing in the existing apartment complex across from Academic Blvd. Both options require safe and attractive pedestrian connections to the campus core.

Business Incubator Space/Business Accelerator (Partnership): This space could be located on the adjacent Mount Aetna Farm property where it can effectively serve both the campus and the broader community.

Parking (P): Several opportunities for additional parking resources on campus, including surface parking in the short-term, could serve as long-term development opportunities. In addition, some surface parking areas may be considered for future parking structures. Following are approximate parking counts for areas shown on Exhibit 11.

- P-1 Children's Learning and Teachers Education Center ($60 \pm \text{Spaces}$)
- P-2 Children's Learning and Teachers Education Center ($60 \pm \text{Spaces}$)
- P-3 Parking ($400-450 \pm \text{Spaces}$): This parking lot was developed while maintaining the existing loop road alignment; however, it was designed to accommodate the relocation of the loop road in the future. In addition, the new parking preserves a swath of open space between it and the existing parking lots to accommodate changes in grade. The parking lot pedestrian flow is located across from the STEM Building, creating flow up to the Waltersdorf Quad using the staircase on the outside or through the building by using the elevator or inside stairs
- P-4 Parking Lot Reorganization ($540 \pm \text{Spaces}$, loss of 30 spaces): The reorganization will re-orient parking spaces so that they are perpendicular to the campus core.
- P-5 Amphitheater: There will be an additional space located near the Amphitheater. The spaces will be used either for the Amphitheater, students or from the Senior Center overflow.
- P-6 Senior Citizen Center Parking ($50 \pm \text{Spaces}$)

Additional Parking Opportunities: Approximately 250 surface parking spaces could be developed in site O-2 across from the Student Center until this becomes a development site. Students moving between it and the campus core would interface with and engage the Alumni Center.

Opportunity (O) "Placeholder": Several "placeholders" are illustrated on the plan to accommodate future development well beyond the next ten years. Facility demands may never require development of these parcels; however, they are identified to maintain optimum flexibility to accommodate future needs while reinforcing the overall campus structure. Understanding the potential for these sites helps prevent inappropriate short-term actions that will limit their future use. These are illustrated as dashed lines on Exhibit 11 and more clearly in red on Exhibit 12.

- O-1 *Northwest Campus Expansion Opportunity (Distant Future)*: This is the largest tract of land that could be developed in a unified campus approach and will be readily accessible from realigned Robinwood Drive. Any new buildings should be organized around an open space or quad, with parking resources located behind.
- O-2 *Instructional Space (Distant Future)*: This hilltop site is an ideal location for future instructional space and should be preserved for this opportunity. Initially, this site could be considered for surface parking (approximately 250 spaces).
- O-5 *Arts Expansion (Distant Future)*: This site illustrates how a new building could occur to the south of the theater, taking advantage of the open space valley.

- O-6 *Instructional Space (Distant Future)*: This is a prominent site which could take advantage of its location on Waltersdorf Quad. It could be a separate building or an addition to the Classroom Building.
- O-7 *Instructional Space (Distant Future)*: This hillside site could accommodate a multi-story building which creates a stronger link between the ARCC and the campus core. It could be a separate building or an addition to the Classroom Building.
- O-9 **Potential Building Space (Distant Future):** This space could accommodate a Campus Operations Building to support the College that would allow access away from the academic buildings

Potential Land (L) Disposition: Two tracts of land are likely candidates for disposal because they are disconnected from the campus by significant drainage divides and/or roadways. Covenants should be placed on any land prior to being sold to protect the value and image of the campus property.

- L-1 *Robinwood Drive Commercial Residential Potential:* Robinwood Drive will separate this parcel from the campus once it is realigned and should be considered for commercial or residential development. This parcel, in particular, should be subject to design covenants because of its location at the front of campus.
- L-2 *Harp Road Development Potential (Alternate: Forest Retention):* This parcel is separated by the campus by a major drainage divide. While it is a likely candidate for disposal, HCC may need to hold onto this property for forest retention, particularly if any of the existing forest retention areas to the west are considered for development.

Forest (F) Retention Areas: A total of approximately 86 acres of forest retention are required for the campus. Forty-six acres are currently within easements and an additional 40 acres (approximately) are needed for retention. The forest areas are divided into the following categories as identified on Exhibit 11. Consideration should be given for development of some of the forest retention areas along the western property line and replacing these with forest retention to the east. The College needs to develop a forestation plan, which will be in place by the next plan update.

- F-1: Existing Forest Retention Areas Likely to Remain
- F-2: Existing Forest Retention Areas to be Consider for Alternative Forestation
- F-3: Potential Additional Forest Retention Areas

Athletics (A) and Recreation Expansion (Preserve for): The area to the northeast corner of campus should be considered for the future athletic and recreation facilities. New athletic fields could be located adjacent to the outdoor track and baseball fields. Because this area is currently retained as forest, the forest retention area would need to be replaced elsewhere.

Exhibit 12 - Master Plan: This plan supplements Exhibit 11. It illustrates future development opportunities, which depends upon the ultimate development of the adjacent parcels of land. Currently this plan is on file at the Washington County Planning Office.

Exhibit 13 - Waltersdorf Quad (Northwest Corner Site Plan and Section): The site design developed for the northwest half of the Waltersdorf Quad will include a series of terraced seating walls and garden walls. The terraced seating walls will be incorporated with improved and widened pedestrian walkways designed to improve and encourage better pedestrian movement between Kepler Theater, the new walkways adjacent to the STEM building, and the connection to the Student Center. The improved walkways also will provide better access by fire, rescue and emergency equipment to all campus buildings in this area of campus.

Exhibit 14- Fill Placement Plan: This is a five-year placement plan that shows the placement of fill materials for HCC's building projects. The cost to maintain the fill on campus will be more cost effective than bringing it onto campus.

Exhibit 15 - Energy Training House: The College plans to build an Energy Training House to offer hands-on training activities to Alternative Energy Technician (AET) students. AET course offerings in the STEM building will focus on commercial and industrial applied technology, while offerings at the Energy Training House will focus on meeting residential consumer needs. These two areas of emphasis will complement each other to benefit AET students.

Exhibit 16 - Proposed Campus Transportation Improvements: HCC has been working with Washington County to establish road improvements and a possible second entrance for the College. The County has created a map to give an overview of what is planned, both short and long term.



Rock outcroppings within the Waltersdorf Quad can be used for garden spaces as shown in the examples below.



The steep slope adjacent to the pathway in Waltersdorf quad would be enhanced with a seat height retaining wall and garden plantings on the slope.



The historic hedgerow through the center of the Waltersdorf Quad is a unique feature that acknowledges the site's agricultural past and should be preserved.



Example of how a low wall and garden space could frame the perimeter walkways within the Waltersdorf Quad.





Examples of how stone steps (left and above) and boulders can be used in conjunction with garden plantings to address steep slopes. Similar design solutions could be considered for the Waltersdorf Quad.

Exhibit 10: Concept Diagram

Hagerstown Community College CAMPUS DEVELOPMENT PLAN

June 15, 2010

MAHAN RYKIEL ASSOCIATES TRIAD ENGINEERING, INC.



LEGEND

- PERFORMING & VISUAL ARTS EDUCATION CENTER
- FUTURE HCC BUILDING SITE
- FUTURE HCC BUILDING SITE
- STUDENT CENTER EXPANSION
- 5A. ALUMNI CENTER & PLAZA
- 6. SECOND CAMPUS ENTRANCE & ROAD UPGRADES
- ADMINISTRATION & STUDENT AFFAIRS RENOVATION
- ADVANCED TECHNOLOGY CENTER RENOVATION
- CONSOLIDATED PUBLIC SAFETY TRAINING CENTER
- 10. ARCC ROOF, AC & HVAC UPGRADES
- 11. FUTURE HCC BUILDING SITE
- 12. PARKING LOT / ROAD RESURFACING & UPGRADES
- 13. LRC MINOR RENOVATION / COMPUTER COMMONS
- 14. VISITOR ORIENTATION PULL-OFF
- 15. FUTURE HCC BUILDING SITE
- 16. SENIOR CITIZEN CENTER (PARTNERSHIP) 17. BUSINESS INCUBATOR SPACE / BUSINESS ACCELERATOR (PARTNERSHIP)
- 18. NURSING HOME (PARTNERSHIP)
- 19. FUTURE HCC BUILDING SITE
- P. PARKING
 - P-1: CLTEC (+/- 60 SPACES)
 - P-2: CLTEC (+/- 60 SPACES)
 - P-3: PARKING (+/- 400 SPACES)
 - (SHORT-TERM DEVELOPMENT SITE)
 - P-4: PARKING LOT RE-ORGANIZATION (+/- 540 SPACES - LOSS OF 30 SPACES)
 - P-5: AMPHITHEATER / SENIOR CITIZEN CENTER PARKING
 - (+/- 30 SPACES)
 - P-6: SENIOR CITIZEN CENTER PARKING (+/- 50 SPACES)
- R. LOOP ROAD ALIGNMENT
 - R-1: EXISTING LOOP ROAD
 - (TO BE RETAINED WITH SHORT-TERM DEVELOPMENT AND PARKING UPGRADES)
 - R-2:FUTURE LOOP ROAD
- O. OPPORTUNITY "PLACEHOLDER"
 - O-1: EAST CAMPUS EXPANSION OPPORTUNITY
 - O-2: INSTRUCTIONAL SPACE (DISTANT FUTURE), SURFACE PARKING (FUTURE)
 - O-3: INSTRUCTIONAL SPACE (DISTANT FUTURE)
 - O-4: INSTRUCTIONAL SPACE (DISTANT FUTURE)
 - O-5: ARTS EXPANSION (DISTANT FUTURE)
 - O-6: INSTRUCTIONAL SPACE (DISTANT FUTURE)
 - O-7: INSTRUCTIONAL SPACE (DISTANT FUTURE)
 - O-8: ARCC EXPANSION (DISTANT FUTURE)
 - O-9:INSTRUCTIONAL SPACE (DISTANT FUTURE)
- L. POTENTIAL LAND DISPOSITION
 - L-1: ROBINWOOD DRIVE COMMERCIAL / RESIDENTIAL
 - L-2: HARP ROAD DEVELOPMENT POTENTIAL (ALTERNATE: FOREST RETENTION)
- F. FOREST RETENTION AREAS
 - F-1: EXISTING FOREST RETENTION LIKELY TO REMAIN F-2: EXISTING FOREST RETENTION TO CONSIDER FOR
 - F-3: POTENTIAL ADDITIONAL FOREST RETENTION AREAS
- A. ATHLETICS & RECREATION EXPANSION (PRESERVE FOR)

Exhibit 11: Illustrative Campus Development Plan

Hagerstown Community College **CAMPUS DEVELOPMENT PLAN**

June 15, 2010

MAHAN RYKIEL ASSOCIATES TRIAD ENGINEERING, INC.

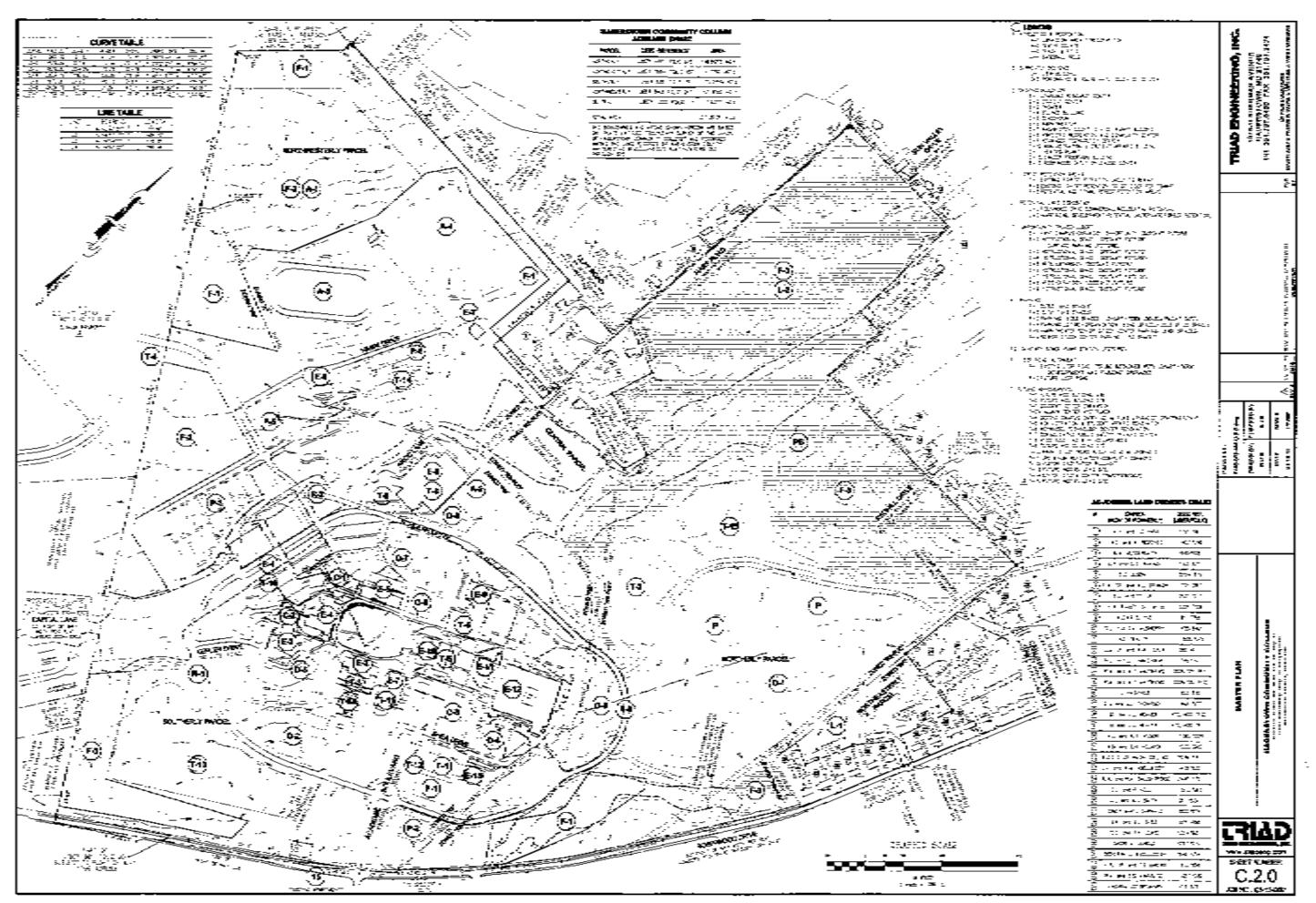


Exhibit 12: Master Plan

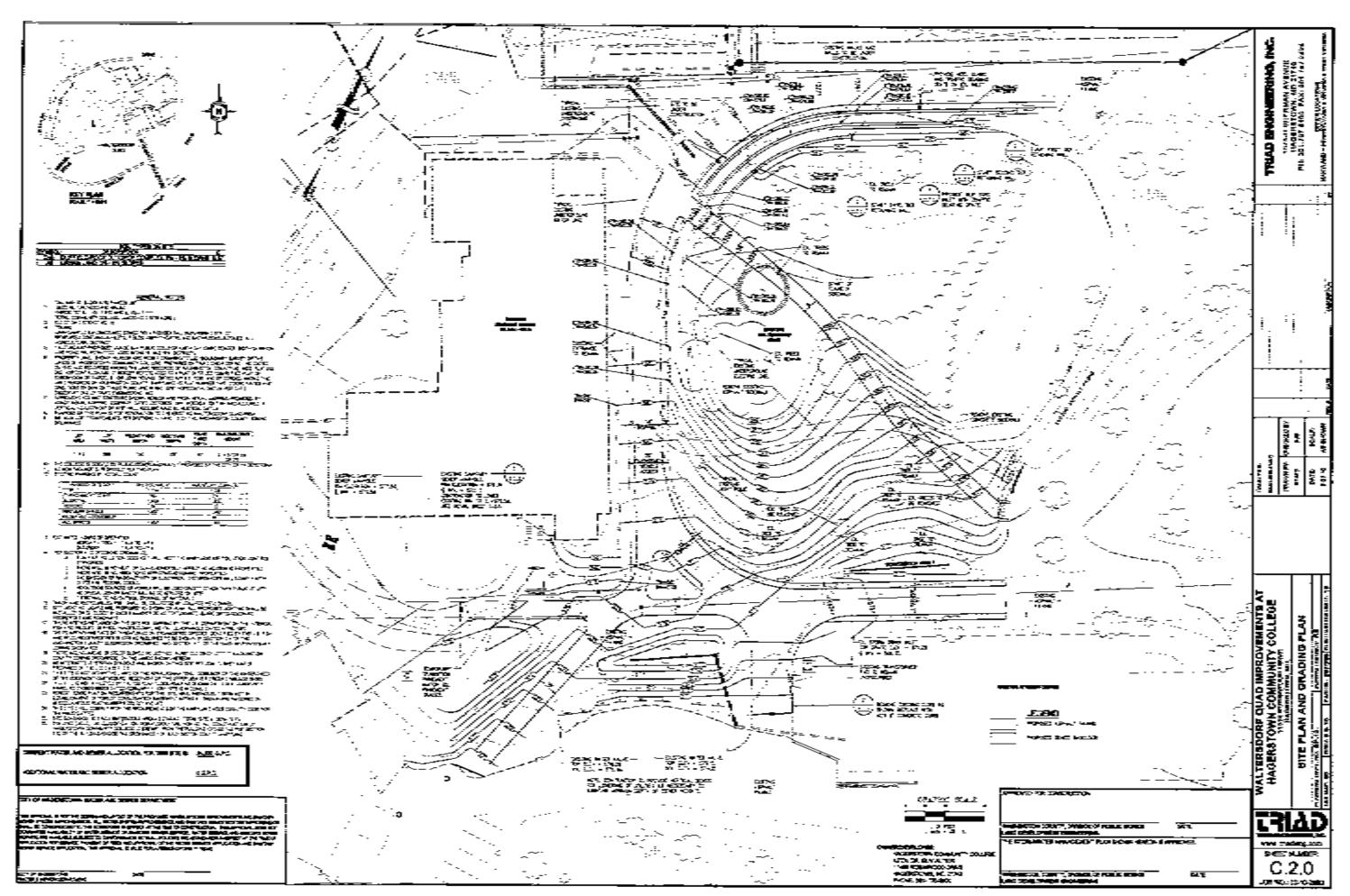


Exhibit 13: Waltersdorf Quad

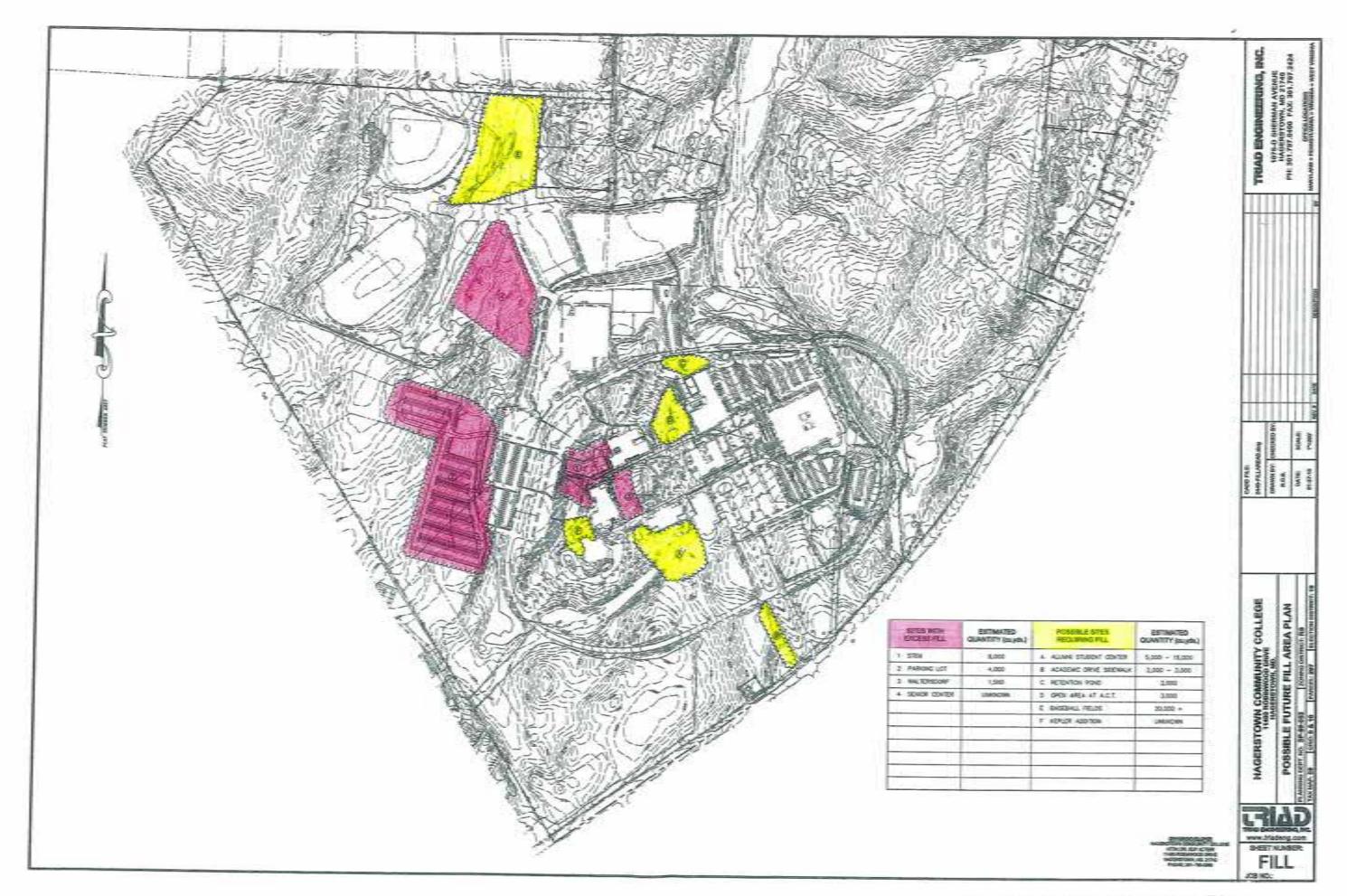


Exhibit 14: Fill Placement Plan

EXHIBIT 14 FILL PLACEMENT PLAN ON THE HAGERSTOWN COMMUNITY COLLEGE CAMPUS NARRATIVE 01/28/10

Purpose of the plan

The purpose of this five year feasibility plan for the placement of rock, dirt and other waste materials on the Hagerstown Community College (HCC) campus would first be to save construction dollars otherwise required to purchase and transport fill material from off campus for current and future construction projects. This report will identify those known areas where rock, dirt and possibly asphalt are projected to be removed as part of funded construction projects.

The second purpose of the report would be to identify the cost associated with the placement of fill materials on campus. Project costs such as state and local permit fees, engineering fees, hauling, compaction and soils testing, surveying, and storm water impact fees. The report will identify areas of the HCC campus where waste uniterials removed from other parts of campus could potentially be distributed. The approximate cost of placing these materials, the quantity of materials and the coordination of project schedules will be considered as these issues best benefit the overall Campus Development Plan.

Areas identified to generate waste materials

	LOCATION	WASTE, MATERIAL	QUANTITY (cm. Yds.)	DATE OF REMOVAL
	STEM Building	Dirt and Rock	8,000 cubic yards	June 2010
	New Parking Lot	Dirt and Rock	4,000 cubic yards	May 2010
	Waltersdorf Quad	Dirt and Rock	1,500 cubic yards	June 2010
	New Senior Center	Dirt and Rock	3,000 5,000 co. Yds,	August 2010
	Scholar Drive Repaye	Putverized Asphalt	To be determined	Not under
i				contract yet

Areas identified as potential sites to receive fill materials

LOCATION	WASTE MATERIAL	QUANTITY (cu. Yds.)	DATE OF PLACEMENT
Student Center	Dirt and Rock	5,000 cubic yards	June 2010
Renovation/Expansion			
Alumni Center	Dirt and Rock	10,000 cubic yards	2015
Academic Drive	Dirt and Rock	2,000 · 3,000 ca. Yds.	June 2010
Sidewalk	[_	·	L J

TIC Retention Pand	Dirt and Rock	2,000 cubic yards	June 2010	
Kepler Addition	Dirt and Rock	To be determined	2010	1
Depression East of ATC and West of Classroom building,	Dirt and Rock	3,000 cubic yards	2010	
Hast side of Baseball field	Dirt, rock, concrete and asphalt.	20,000 cubic yards	2010	
]]

Narrative explanation for the placement of fill materials

Student Center Renovation/Addition

Constructing an addition to the current student center of approximately 12,500 square feet, to be located directly southeast of the existing building will require a large amount of engineered and compacted fill to prepare a new building pad. The ground tapers off in this area approximately 20 feet to a low lying drainage area. Several trees would need to be removed, local permits will be required, and some sharp changes in elevation may require the installation of retaining walls. Approximately 5,000 cobic yards could be distributed in this area for the future Student Center Addition.

Alumni Center

Placement of a proposed new Alumni Center directly adjacent and to the southeast of the proposed Student Center Renovation/Addition will require additional engineered and compacted fill material and the probable addition of engineered storm water piping and drainage systems. State and local permits will be required. Approximately 10,000 cubic yards (plus) will be required to bridge the 20 foot change in elevation between the back of the student center and the lowest point of the current grade. It would be possible to place the proposed Alumni Center at a lower elevation.

Academic Drive Sidewalk Site Preparation

The Campus Development Plan includes the addition of sidewalks on both sides of Academic Boulevard entering the campus from Robinwood Drive. The addition of these sidewalks is important to make our campus accessible for those students electing not to drive a car to campus. The area located on the west side of the exit lane of Academic Boulevard would need to have fill added to accommodate a divider strip and a sidewalk. Between 2,000 and 3,000 cubic yards of material could be distributed in this area to make a more welcoming and pedestrian friendly entrance to the HCC campus.

TIC Retention Ponds

With the addition of the large storm water retention basin on the east side of the softball field in 2006 the small retention pand at the north and of the TIC building is no longer a necessary part.

of the HCC storm water management system. Filling this area will allow better access for students and make landscaping management of this area more cost effective.

Kepler Addition

It is possible that the Kepler Addition project will require a certain amount of fill to prepare the building pad and allow gentle sloping away from the building. It would be less expensive to use the rock and dirt removed from the STEM site if construction schedules could be coordinated appropriately. Note: the Kepler project and the STEM project will most likely be constructed by two different contractors.

Depression on the cast side of Classroom Building and west of ATC

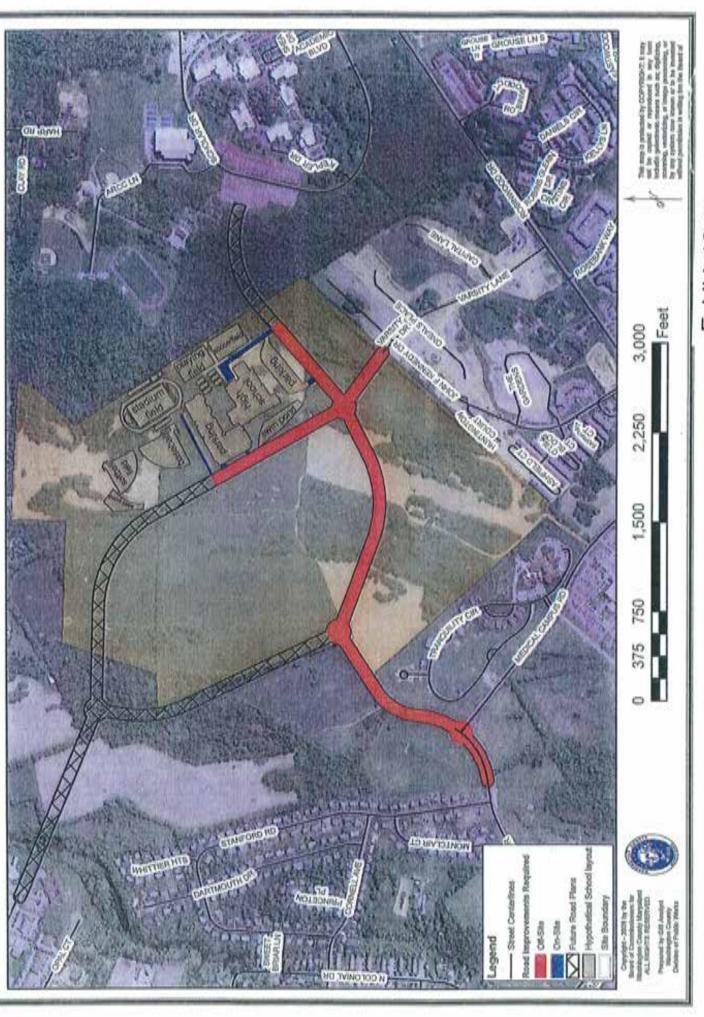
There is an area on campus populated mostly with Osage orange trees and having an overall elevation perhaps 8 to 40 feet below the elevation of the surrounding areas. Filling in this area would allow HCC students another area to relax and study and allow the Child Day Care center another area for children to play. Two storm water drain pipes would need to be connected in this area and local permits might be required. Approximately 3,000 cubic yards of material could be used in this area.

Fast side of baseball field

This area has been used as a spoils area for years. At least 20,000 plus cubic yards of material could still be used to extend the current elevation behind the outfield fence of the baseball field.

Exhibit 15: Energy House

Figure A-4. Off-site and On-site Transportation Improvements Required for Site 15



Fyhihit 18. Dand Improvemente