LEO A DALY

PLANNING
ARCHITECTURE
ENGINEERING
INTERIORS

EST. 1915

ABU DHABI
ATLANTA
AUSTIN
BEIJING
BRYAN
CHICAGO
DALLAS
DENVER
FORT WORTH
HONG KONG
HONOLULU
HOUSTON
ISTANBUL
LAS VEGAS
LOS ANGELES
MIAMI
MINNEAPOLIS
MOSCOW
OMAHA
PHOENIX
SACRAMENTO
SAN ANTONIO
SAN MARCOS
TAMPA
TIANJIN
WACO
WASHINGTON, DC
WEST PALM BEACH

November 30, 2010

Dr. Ron Thomas
President
Dakota County Technical College
1300 145th Street East
Rosemount, MN 55068

Subject: Dakota County Technical College Master Facilities Plan

Dear Dr. Thomas:

It has been a pleasure working with you and your team to develop the continuing vision of Dakota County Technical College through the updating of your facilities master plan. The plan follows the MnSCU master planning guidelines while guiding you through future development options that support your vision.

The 2010 Dakota County Technical College Master Plan:

- Updates your plan to show completed and currently planned projects, including updating schedules due to veto's of short term projects.
- Re-connects your facilities plan to better support current academic planning.
- Coordinates the Dakota County Technical College plan with the U-More Park concept master plan, specifically related to the regional sports complex and energy innovation center.
- Outlines facilities related tasks that are imperative to the President's Commitment to Climate Change.
- Reviews the benefits of sale, purchase, continued lease or relocation of your campuses in South St. Paul, Apple Valley and Eagan.
- Addresses viable short-range and mid-range projects that will assist MnSCU in delivery of bachelors and graduate level programming in the metro area.
- Addresses long-range strategies to meet the guiding vision of existing, new and unforeseen academic programs.

The Master Plan will give Dakota County Technical College a clear guide for development over the next 5-10 years and sets a strategy for effecting long term development on and adjacent to the campus. We look forward to our presentation to the Chancellors office.

Respectfully,

LEO A DALY

Jonathan A. Crump, AIA, LEED® AP
Principal
jacrump@leoadaly.com

730 SECOND AVENUE SOUTH
SUITE 1100
MINNEAPOLIS, MN 55402-2455
TEL 612.338.8741
FAX 612.338.4840
www.leoadaly.com

DAKOTA COUNTY TECHNICAL COLLEGE
FACILITIES MASTER PLAN 2010

Index

This page left blank intentionally

1.1 Executive Summary:

MAJOR VISION FOR CAMPUS

Dakota County Technical College is a two-year, technical college that belongs to the Minnesota State Colleges and Universities system. The main campus is located in Rosemount, MN, with additional educational sites in Apple Valley and Eagan. A strong Customized Training division also takes advanced technical training to many business and industry sites.

The college delivers unique, relevant and effective programs to students from diverse backgrounds. The faculty have the industry credentials to teach the appropriate technology that gives our students the opportunity to translate the education into marketable skills for access to jobs that contribute to a vibrant regional economy. The mission of Dakota County Technical College is to provide collegiate-level education for employment that will empower individuals to enhance their opportunities for career advancement and success in a global economy. The college stresses the importance of real-world experience in each program through relevant classroom and lab experiences, offering access to industry-standard facilities, equipment and technology. Additionally, student learning is enhanced through service-learning, internship and clinical experiences that provide the direct link with the marketplace the students will enter upon graduation.

In line with a renewed focus on the environment, DCTC instituted a Green Campus Commitment as the means to promote earth-friendly sustainability principles in all areas of the college. This includes facilities, departmental practices, student programming and curriculum. The college has strengthened its responsibility to providing co-curricular programming and facilities to complement the classroom learning.

The college is committed to providing a higher education environment on-site and on-line that promotes student learning, educates for a global marketplace, and engages the local community. With this commitment, the college vision is to be recognized as a leader in providing quality technical and general education needed for employment in an ever-changing work environment.

PLANNING PROCESS

In 2002, Dakota County Technical College unveiled its inaugural Design for the Future Strategic Plan through the commitment and significant efforts of an institutional Strategic Planning Committee. The 2007–2010 Strategic Plan for Dakota County Technical College builds upon this earlier effort and renews the college's commitment to progressive change through the introduction of a new mission statement, vision statement, and five new strategic goals to follow over the next three academic years. In fall 2005, the college president appointed the first vice president of institutional planning, who set about conducting a complete audit of all current planning efforts at the college. Results of this investigation revealed a pressing need to consolidate and integrate planning efforts across the campus through the use of a planning taxonomy made up of strategic, master, and operational planning efforts, all of which required coordination with external governance and accreditation planning efforts. During the spring and summer of 2006, the college's administrative team conducted planning sessions to design an approach toward updating the current Strategic Plan. As an outcome of these discussions, a comprehensive survey was developed for dissemination to a broad audience of both internal and external campus constituencies: students, faculty, staff, administrators, advisory board members, and community, educational and legislative leaders. The survey instrument was later made available to these various stakeholder groups via the Internet. In all, over 200 individual responses were received, with dozens of contributed comments and recommendations. Results indicated widespread support for proposed changes to the college's mission statement, vision statement, and strategic goals. Respondents also assisted in identifying external threats and opportunities, as well as institutional strengths and weaknesses that would likely influence the college's ability to achieve these new strategic objectives. The five goals identified in the 2007–2010 Strategic Plan represent bold ideas that will require the collective efforts and energy of the entire DCTC Community. Although the goals may change over time, the college's historical motto of "Education for Employment" remains as relevant today as it ever has in its 40-year history.

- Goal 1 – Diversity
- Goal 2 – Enrollment
- Goal 3 – Engagement
- Goal 4 – Teaching and Learning
- Goal 5 – Financial Stewardship

BACKGROUND

Dakota County Technical College Master Plans have been created by internal stakeholders from different campus departments or programs. They are focused on campus-wide initiatives and projects, have goals linked to the Strategic Plan, have Multiple departments and programs that are accountable for meeting the goals, and are used to guide improvement efforts for many years. This master plan updates a document created in 2005 by Wold Architects.

FACILITIES MASTER PLAN ANALYSIS

The campus master plan for DCTC addresses growth issues for both facilities and site needs over the next 20 years. It also acts as a guide for phasing in the recommendations over the next six-two year budget cycles.

Students, staff, faculty, community leaders, industry partners, architects and engineers have spent months planning for the creation of the master plan. The college's Strategic, Academic, and Technology Plans have driven all the planning efforts, and provided direction for enhancement of the seven academic departments.

UPDATE STRATEGY – Campus wide

The proposed site projects concentrate on the following elements.

- The establishment of a Energy Institute on the DCTC campus
- Coordinate wind turbine programs with Umore park; develop smaller scale wind turbines on-campus
- Integrate on-campus solar collection systems
- Continue the development of stormwater management systems for building and parking areas
- Develop screening from long-term temporary aggregate mining proposed to the west of campus
- Acquire the District 917 parcel within the campus boundaries
- Dispose of the property north of CR 42
- Construct a transportation partnerships facility
- Develop Baseball and Softball facilities
- Improve on-campus vehicular circulation with self-orienting primary traffic patterns
- Provide improved access to service and transportation outdoor spaces
- Screen service and outdoor transportation spaces
- Plan for health and wellness facilities

UPDATE STRATEGY – Buildings

Within the building, the proposed projects also address the college's needs in the following areas.

- Completes the Transportation and Emerging Technologies renovation
- Creates a plan for consolidation of District 917 programs
- Proposes utilizing corridor space currently not required for code exiting or wayfinding to increase the usable square footage of the existing building
- Consolidates all design programs to one area to improve collaboration and focus on sustainability
- Proposes several locations for academic classroom additions
- Proposes additions to support student center and student services
- Proposes additions for Technical Sciences programs
- Proposes additions for new and innovative programs

In addition to these site and building related projects, the phasing and implementation schedule includes projects that are related to the correction of code deficiencies as well as asset preservation (HEAPR) and the college's own repair and maintenance items.

PHASING STRATEGY

The projects are separated by time frame as short range (0-5 years), mid range (5-10 years), and long range (10 years and beyond). These are listed below.

SHORT RANGE PROJECTS (0-5 YEARS)

- Complete the Transportation and Emerging Technologies renovation
- Expand the Partners in Higher Education Center
- Medical and Dental Assistant renovation
- Truck Driving facility renovation
- Chrysler Shops renovation
- Competition Baseball Facilities
- Develop on-campus wind generation
- Develop on-campus solar collection

MID RANGE PROJECTS (5-10 YEARS)

- Energy Institute building
- Transportation Partnerships building
- Community Health and Wellness Center
- Technical Sciences addition
- Sustainable Design Studies renovation
- Consolidate District 917, various renovations
- Center for New and Innovative Programs renovation
- Aquire District 917 property
- Complete stormwater management of impervious surfaces
- Complete south vehicular circulation and parking lot renovation and reconfiguation

LONG RANGE PROJECTS (10+ YEARS)

- Student Center addition and renovation
- Sustainable Design Studies addition and renovation
- Extend railroad onto decision driving range with light rail component
- Classroom additions

WORKFORCE AND ACADEMIC PROGRAMS

DCTC excels at delivering high-quality technical and professional education in career-oriented programs that benefit today's workforces and the businesses and industries they serve.

DCTC continues to meet the needs of local and regional employers. A recent employer survey shows that over 80% of employers agreed that they were satisfied with DCTC graduates' skills/abilities/knowledge. Over 85% perceive that DCTC graduates are better prepared or equally prepared as recent graduates of other institutions. Finally, 92% of employers indicated that they would hire a DCTC graduate again.

DCTC has responded innovatively to many requests from industry when needs become apparent or are anticipated. One example is the nanoscience technology program. DCTC is the regional recipient of a federal National Science Foundation grant that puts the college in a regional leadership position in developing strong educational opportunities for students entering this emerging field in the United States.

When industries such as the railroad companies and local energy producers approached DCTC to start in-demand training in railroad conductor and nuclear technician training, the college met the challenge. The facility master plan must include not only support for the continuation of these programs but also new technologies and workforce requests. One area in which nearly all current academic programs at DCTC is investigating is sustainability within their particular industries. Sustainability practices are well-established in some fields, but in others, these practices are new. Access to a windmill for the Electrical Lineworker training will become increasing important as the prevalence of windmill activity increases in the United States and the region.

The University of Minnesota and its UMore (University of Minnesota Outreach, Research and Education) Park development will deeply influence the activity surrounding and within the walls of DCTC. The vision is to "build a unique, sustainable, University-founded community. The plan integrates environmental, socio-cultural and economic opportunities with a specific focus on innovations in renewable energy, education and lifelong learning, health and wellness, the natural environment and regional economic development." (http://www.umorepark.umn.edu/) **See appendix tab 5**

Note: Additional information about Customized Training opportunities with business and industry can be found at http://www.dctc.mnscu.edu/continuing-education/index.cfm. The annual report highlights the activities pursued by customized training. **See appendix tab 11**

Online development: In January of 2007, the college received regional accreditation in support of online program delivery. While courses had been delivered since 2000, whole program delivery took time to develop especially at a college known for face-to-face, hands-on experiential learning. Since then, delivery of online (FY 2010, 17.1%) and hybrid (FY 2010, 6.3%) course work has risen to over 23% (FY 2010) of the total course delivery of the institution. The MnSCU system as a whole is at 12.5% of its delivery is online. Development of online has allowed the college to reach a much wider audience and serve the needs of a more diverse body of students. Though most of the students taking online courses live within 50 miles of the college and are on campus for other classes, this type of delivery has afforded the student more flexibility to tend to other responsibilities. Additionally, this gives the college the tools to reach out to potential students who may not be able to attend on-site at more traditional times of day. The recent growth in the student population has been among students who may have been recently laid off, had their work hours reduced, or may be seeking a different career pathway. With existing personal commitments, they have difficulty in adding education to the already full day. Online development helps them seek other career opportunities. For example, the college recently added a section of medical assistant training that is in a hybrid format. This format has converted traditionally lecture-based coursework into an online environment. The students only come to campus for lab experiences. This environment maximizes the use of the lab facilities with the traditional delivery and the hybrid delivery, but eliminates the need for additional lecture classroom space that would typically be required for this kind of program expansion.

See appendix tab two for a complete listing of the academic program inventory

Employability Development: Competition in the current job climate is fierce to say the least. Recognizing this fact, DCTC offered Your EDGE, a series of free mini-clinics designed to dramatically increase employability. Each mini-clinic focused on a specific target area that helps sharpen one's competitive edge in the employment marketplace.

Joining forces with industry experts who have volunteered their time and knowledge, DCTC faculty and staff developed Your EDGE to offer swift assistance to people who have been adversely affected by the economic downturn. Understanding that money is tight for unemployed and underemployed individuals, Your EDGE mini-clinic series was free of charge to the following:

- DCTC students
- DCTC alumni
- Active-duty U.S. Armed Forces personnel and their families who are or have been enrolled at one of the 32 higher education institutions in the Minnesota State Colleges & Universities system
- Veterans of the U.S. Armed Forces and their families who are or have been enrolled at one of the 32 higher education institutions in the Minnesota State Colleges & Universities system

Your EDGE participants gained significant knowledge about real-world employment expectations. The mini-clinics provided invaluable guidance on the following topics:

- Issues and resources unique to military personnel (current and veterans) and their families
- Making skills shine on a résumé and cover letter
- Development of a personal brand
- Business etiquette and professional appearance
- Strategies for designing careers
- Networking
- Verbal and nonverbal communication
- Electronic portfolio development and maintenance
- Making the most of your job interview
- Leveling the playing field for women in the workforce

Development at Apple Valley site: The three partners at the Apple Valley site met recently to discuss growth opportunities. The first challenge presented was the lack of physical space within which to grow. The site is at capacity during the prime evening time frame. But it was determined that growth plans must be identified first and have that outcome drive the facility needs. Within the next few months, a plan will be developed to identify those growth outcomes. The intent is to engage the partners in discussion of three main academic areas: (1) expansion of STEM programs(science, technology, engineering, mathematics), green/sustainable programming, online/hybrid delivery, accelerated delivery; (2) expand entrepreneurship programming; and (3) design "pull-through" programs (intentional programming leading from associate's through to master's degrees). Each of these three areas may feed or lead to another. Once the growth areas are identified, facility needs will be reviewed.

REGIONAL ISSUES

The DCTC campus lies in the outer ring of developing suburbs. Due to this location, the regional issues of transitioning from a rural envirionment to a suburban environment are beginning to impact the college.

The campus is surrounded by the Umore Park public-private development. A master plan has been developed that indicated significant commercial and residential development in close proximity to the campus. Changes in the economy have significantly slowed the planned development yet the concepts seem to be held intact.

SUSTAINABLE HIGHLIGHTS: THE GREEN CAMPUS COMMITMENT

On the global front, Dakota County Technical College is taking a lead role in the critical areas of sustainability and climate neutrality through the college's Green Campus Commitment. In June 2007, DCTC President Ron Thomas signed the American College & University President's Climate Commitment. Dr. Thomas joined nearly 650 college and university presidents across the United States who are committed to sharply reducing and eventually eliminating global-warming emissions through accelerated research and education aimed at stabilizing the Earth's climate.

The American College & University President's Climate Commitment represents a high-visibility effort to eliminate greenhouse gas emissions and achieve climate neutrality by harnessing the expertise, influence and research capacity of higher education.

By implementing the following six steps DCTC will be on course to achieve campus neutrality by the year 2020.

- Established a committee and task force within two months to guide the process.
- Completed an inventory of greenhouse gas emissions within one year, starting July 2007.
- Created and implemented a climate neutral plan that includes a target date and interim milestones for achieving campus climate neutrality within two years.
- Initiated two of six immediate steps specified in the commitment to reduce greenhouse gas emissions while the more comprehensive plan is being developed.
- Integrated sustainability into the curriculum, making it part of the educational experience.
- Developed an action plan, inventory and periodic progress reports that will be available to the public.

SUSTAINABILITY INITIATIVES

DCTC's Green Campus Commitment Committees have initiated a comprehensive array of short-term and long-term projects to achieve their sustainability objectives.

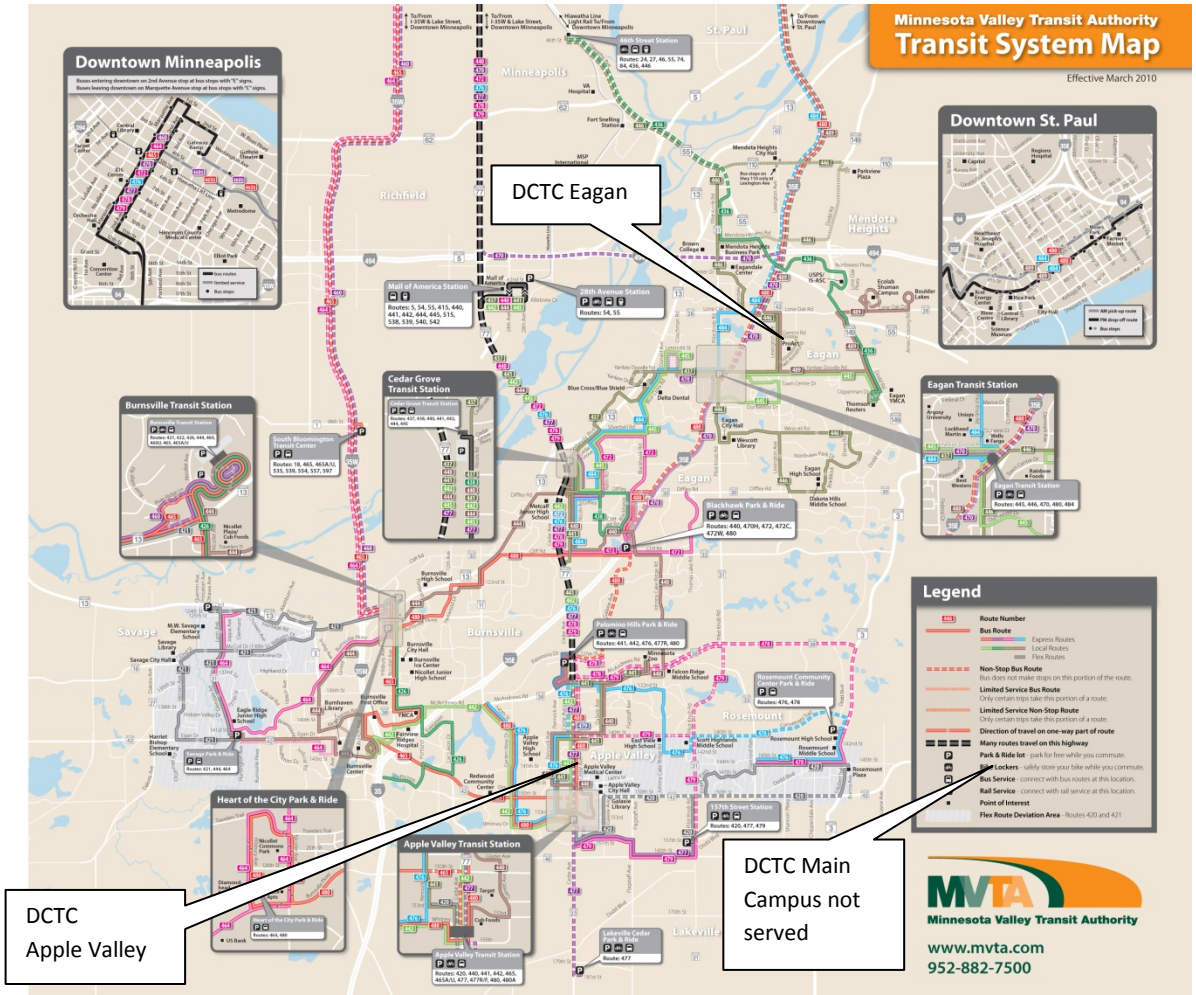
- The Instructional Action Team is finding ways to integrate sustainability into selected aspects of program curriculum.
- Working toward LEED Silver Certification in all college construction projects.
- Solar panels have been added to the greenhouse. The panels will be used to heat the greenhouse during the day and supplement the heating system at night, which will save on natural gas costs.
- An electronic newsletter, DCTC Green News, has been launched as a green-initiatives educational tool for students, faculty, staff and the community.
- Completed their Energy Emissions Inventory & Baseline Determination Report.
- Students participated in the design aspect of the front parking lot project.
- LEED for Existing Buildings is under review and discussion for possible implementation at DCTC.
- Following a baseline study of monthly campus trash generation, the college implemented a campus-wide recycling program.
- The Student Senate took a leadership role in promoting their new recycling program. The Senate purchased 45 recycling containers, which have been distributed throughout the campus.
- The Instructional Action Team is investigating additional program majors in the areas of environmental technology and sustainable design.
- The college installed their occupancy sensors, lighting controls and updated our energy management system.
- The college is implementing new green purchasing guidelines.
- The college recently purchased fuel-efficient vehicles to promote fuel efficiency in the motor pool.
- Throughout the building, the college is using 100 percent postconsumer recycled paper towels and toilet paper, which use no chlorine or chemicals during production.
- The college is investigating photovoltaic panels, which turn sunlight energy into electricity. A system has been installed to power the concession stand at the soccer stadium.
- Working with the Clinton Global Initiative, the college is looking into wind energy.
- New green purchasing guidelines are being implemented.
- The Instructional Action Team received funding from the Perkins IV New Program Development grant program for sustainable design.
- The Instructional Action Team has developed a "Sustainability Across the Curriculum Survey."
- Community involvement has been engaged at numerous levels.

TRANSPORTATION

Dakota County is served by a number of freeway facilities including I-35E and Cedar Avenue on the west, TH 52 on the east and I-494 on the north. In addition to these facilities, TH 55, TH 149, TH 110 and TH 3 (Robert Street), as well as Lone Oak Road, contribute other backbone arterial functions.

Transit service is primarily provided by the Minnesota Valley Transit Authority (MVTA). Based on Met Council's 2030 Transportation Policy Plan, some express bus and/or BRT services on Robert Street may eventually provide some improved transit services to the area.

This section of the Master Plan is intentially brief. While the College encourages alternative transportation through promotion of carpooling, the remote location discourages bicycle use for most. Additionally, public transportation routes have proven unsuccessful in the past. It is the intention of the college to continue to focus on alternative transportation as a means of lowering carbon emissions.



1.2 Campus History:

Since DCTC opened its doors in 1970, the college's administration, faculty and staff have been working toward one goal—providing individuals with the education they need to enter the workforce with the knowledge and tools to not only prosper, but to also give back to their communities.

Dakota County Technical College is a publicly funded technical college affiliated with the Minnesota State Colleges and University system. The college traces its beginnings to the 1969 Minnesota State Legislature approval of the formation of Dakota County Area Vocational Technical Institute within Independent School District #917. In January 1970, the college opened its doors to fifty students enrolled in three majors: Architectural Drafting, Auto Mechanics and Secretarial Training. The college was first housed in the former Southview Chevrolet Building in South St. Paul. The permanent site of the college is a 179 acre tract of land formerly owned by the University of Minnesota located in Rosemount on County Road 42.

Construction of the 194,350 square foot building for the college began in the fall of 1971, with an estimated completion date of fall 1973. The plan was to accommodate 750 students. The college experienced a steady growth pattern starting with 47 students in 1970, 170 in the 1971-1972 school year, and 400 in 17 different majors by the 1972-1973 school year. All of these classes operated in 11 rented facilities. The new building was opened for classes during the 1973-1974 school year with 669 students and approximately 30 vocational program offerings. In addition to the main campus building, a new meat processing skills center was completed in 1974. The 6,722 square foot facility is located on 1.82 acres of land in the stockyards area in South St. Paul.

By 1978-1979, a 305,200 square foot addition was completed which more than doubled the size of the school. At that time, the college's enrollment was 1,800 students (1,602 FYE's) in 36 different vocational programs, in addition to students in evening school. In 1979 the State Board mandated that all the Area Vocational Technical Institutes be renamed Technical Institutes, so the college was renamed Dakota County Technical Institute. To accommodate the growing number in the truck driver training program, a new 6,134 square foot building

was completed in 1985. In 1989, the college underwent another name change following a legislative mandate and was renamed Dakota County Technical College. In 1989 the Childcare Center, originally the Rosemount City Hall, was opened.

In 1991, the college began construction of the first phase of a decision driving range. The facility was located on 107.6 acres of land adjacent to the campus and was leased from the University of Minnesota with an option to buy. The completed Decision Driving Course was opened for business in the fall of 1995. The purchase of the decision driving range was completed in 2010. In 1992 DCTC opened its Training Center West in Burnsville and in 1994 opened a satellite campus at the Mall of America in Bloomington.

A new Higher Education Board was created by the Minnesota Legislature in 1991 to govern all of Minnesota's state universities, community colleges and technical colleges. It took effect on July 1, 1995, changing the governance of DCTC from Minnesota Board of Technical Colleges to the Minnesota State Colleges and Universities (MnSCU) System.

In the fall of 1998 DCTC converted from a quarter-based to a semester based academic calendar as required by all MnSCU institutions. For the 1998-1999 school year, the college enrolled 1,321 full-time students and 2,895 part-time students. The faculty consisted of 85 full-time and 83 part-time instructors. The total number of students served, credit and non-credit was 13,490.

At the end of the 1998-1999 academic year, the Meat Processing program closed and the building that housed that program in South St. Paul was then renovated to accommodate the training and education of appliance service technicians and related technical education subjects.

In the 1999-2000 academic year, DCTC began offering A.A.S. degrees and general education coursework following authorization from the MnSCU Board of Trustees. Also in 1999, the college opened its new Information Technology Center in Eagan offering computer software and network applications courses.

Dakota County Technical College began to partner with Saint Mary's University of Minnesota and Inver Hills Community College in 2003. This joint facility is located in the former Apple Valley City Hall on Cedar Avenue north of County Road 42. With this partnership, DCTC offers Business Management, Real Estate, Business Entrepreneurship, Marketing and Supervisory Management.

The college currently operates facilities on its main Rosemount campus as well as at two secondary satellite facilities: their Partners in Higher Education site in Apple Valley and their IT Training Center in Eagan.

HISTORY TIMELINE

1970: Dakota County Area Vocational-Technical Institute is founded
1973: Main Campus Building opens
1974: North Campus Building opens in South St. Paul
1978: Annual Tuition of $360 is established
1979: Major addition to Main Campus Building is completed
1983: State Board of Vocational-Technical Education is established
1985: Truck Driving Training Building is completed
1989: Name changed to Dakota County Technical College
1989: College becomes a credit-based institution
1991: Legislation to merge higher education systems under one board (State)
1992: Training Center West, Burnsville opens
1994: Classes are offered at the Mall of America
1995: Merger of State Universities, Community & Technical Colleges into MnSCU
1996: Full Regional Accreditation awarded by NCA-CIHE
1999: Information Technology Center opens in Eagan
1999: DCTC granted authority to offer A.A.S. degrees
2001: The Higher Learning Commission (a commission of the North Central Association of Colleges and Schools) awards 10 year regional accredidation
2001: North Central Association of Higher Learning Commission 10 year reaccreditation
2003: Apple Valley site opens
2003: First A.S. Degree offered
2004: New Cutting Edge Digital Photography Lab opens
2004: Dr. Ron Thomas named “Pacesetter of the Year”
2005: Railroad Conductor program introduced
2006: ASE recertification of automotive technology programs
2007: High Tech Sustainable Greenhouse opens
2007: Parking lots north of the campus are expanded incorporating sustainable material and storm water management
2007: Veteran’s Center opens
2007: Online Degree offerings obtain accreditation
2007: Dr. Thomas commits to “Climate Neutral Campus” signing the American College and University President’s Climate Commitment
2007: National Institute of Wood Finishing launched at DCTC
2008: Nanotechnology program is awarded a NSF grant
2009: Joint Rosemount/DCTC Ames Soccer Complex opens
2009: DCTC one of the top 50 fastest growing colleges in the nation

HISTORY OVERVIEW

BUILDING INFORMATION - OWNED

Main Campus Original Building	1971	194,350 sf
Main Campus Addition	1978	305,200 sf
North Campus Building	1973	6,722 sf
Truck Driver Training Building	1984	6,134 sf
Chrysler Shops (former daycare)	1987	8,180 sf
Total Owned Building Area		**520,586 sf**

BUILDING INFORMATION - LEASED

IT Training Center, Eagan	1998	6,200 sf
Apple Valley Site	2003	10,000 sf
Total Leased Building Area		**16,200 sf**

PROPERTY INFORMATION (MAIN CAMPUS) – OWNED

Main Campus Original Parcel	1971	92.37 acres
Main Campus Parcel 2	1977	12.76 acres
North Campus (West St. Paul)	1973	1.82 acres
Chrylser Shops (former day care)	1987	8.00 acres
Decision Driving Tract	2010	64.00 acres
Total Owned Property Area		**178.95acres**

LEGISLATIVE MANDATES

The following is a summary of the 2009 Minnesota State Colleges and Universities Mandates and Curiosities.

Chapter 25: Workforce Investment in Regional Economic Development Bill Summary
Chapter 32: State Reports and Documents Bill Summary
Chapter 35: Bioscience Business Development Public Infrastructure Grant Bill Summary
Chapter 37: Environment and Natural Resources Finance Bill Summary
Chapter 59: Public Safety Policy Bill Summary
Chapter 65: Workforce Development Bill Summary
Chapter 78: Economic Development Finance Bill Summary
Chapter 79: Health and Human Services Finance Bill Summary
Chapter 80: Open Meeting Law Bill Summary
Chapter 83: Public Safety Finance Bill Summary
Chapter 85: State Employee Labor Agreement Ratification Bill Summary
Chapter 91: Residential Construction Warranties Bill Summary
Chapter 93: Omnibus Bonding Bill Summary
Chapter 94: Agriculture and Veterans Affairs Finance Bill Summary
Chapter 95: Higher Education Finance Bill Summary
Chapter 96: K-12 Education Finance Bill Summary
Chapter 101: State Government Finance Bill Summary
Chapter 110: Energy Bill Summary
Chapter 138: Federal Stimulus Energy Bill Summary
Chapter 142: Human Services Licensing Bill Summary
Chapter 143: Legislative-Citizen Commission on Minnesota Resources Funding Bill Summary
Chapter 153: Firefighter Licensing Standards Bill Summary
Chapter 157: Dept. of Health Technical Provision Bill Summary
Chapter 159: Health Care Policy Bill Summary
Chapter 169: Omnibus Pension Bill Summary
Chapter 172: Lessard Outdoor Heritage Bill Summary
Chapter 177: Federal Stimulus Oversight Bill Summary

This page left blank intentionally

1.3 Demographics:

GENERAL INFORMATION

City: Rosemount

Population: 20,917

Tuition and fees (2009-2010): $5,084

FAFSA code: 010402

Enrollment:
Full Year Equivalent number of students FY 2009: 2206
Number of traditional credit headcount FY 2009: 5282
Full-time students: 52%
Part-time students: 48%
Males: 54%
Females: 46%

69% of students travel 1-5 hours per week to class
16% of students travel 6-10 hours per week to class

57% work over 20 hours per week while in school
39% work over 30 hours per week while in school

27% spend 21+ hours per week caring for dependents

Student goals:
59% list earning an associate's degree as primary goal
52% list transfer to a 4-year university as primary goal
41% list gaining job-related skills as primary goal

16% of students are taking classes at another institution while attending DCTC

24% have already completed an academic credential before entering DCTC

Awards offered: Associate in Science, Associate in Applied Science, occupational diplomas, certificates

Largest programs: Automotive technician, electrical lineworker, graphic design, interior design, practical nursing

Unique programs: Nanoscience technology, railroad conductor, biomedical equipment technology, General Motors Automotive Service Educational Program, wood finishing, concrete masonry

Intercollegiate sports: The Blue Knights competitive sports include baseball, men's soccer, women's soccer, basketball, volleyball and softball

Student activities: More than 20 organizations, including student government, Multicultural Student Leadership Association, Horticulture Club, SkillsUSA, service learning, Student Ambassadors

Housing: The college has no on-campus housing. A list that includes area apartments, apartment locator firms and community housing projects is available through the college's Student Services.

As a result of this information, it is clear that DCTC students have education as a priority, but it is one of many responsibilities they carry. This supports the notion that DCTC must remain flexible in it delivery, and expand and innovate when it comes to programs to meet the needs of the area.

AREA DEMOGRAPHICS

Dakota County Technical College primarily serves the southern metropolitan area including the cities of Rosemount, Apple Valley, Burnsville, Eagan, Savage, Shakopee, Farmington, Lakeville, and Hastings. Using 2000 as a base year, the Metropolitan Council projects population increases of 16% by 2010, nearly 34% by 2020, and 43% by 2030. They also predict that this population growth will outpace job growth during the same period. This will create a very competitive employment market that will intensify the demand for job training and skill development.

CAMPUS DEMOGRAPHICS

Dakota County Technical College provides courses during the day, in the evenings, and on the weekends. During the 2008-2009 academic year, the total unduplicated credit headcount was 5,284 and full-year equivalent (FYE) was 2,206. In 2009-201, the total unduplicated credit headcount was 5,614 and the FYE was 2,484. Over the past five years enrollment has increased by approximately 11% (2005 FYE = 2,245).

POPULATION PROJECTIONS

Dakota County Technical College serves more than 11,500 students annually. Nearly 5,000 are enrolled in credit-based programs and majors with some 8,500 enrolled in Customized Training noncredit courses.

Dakota County Technical College sits in one of the fastest growing counties in Minnesota. Dakota County remains the third most populous county in the state and continues to grow, but is projected to grow more slowly in coming years. In 2008, the U.S Census Bureau estimated the population for Dakota County was 392,755. The population percent change from 2000 to 2008 for Dakota County was 10.4%, whereas the state of Minnesota was 6.1%. The population projection is 407,520 for 2010; 432,510 for 2015; 455,080 for 2020; and 473,540 for 2025. The county is projected to gain approximately 90,000 residents between 2010 and 2030, representing a 21% growth rate over that period.

ECONOMIC INDICATORS

The unemployment rate in Dakota County has consistently remained below the state and national averages during the last decade. However, Dakota County's unemployment increased from 3.5% in 2005 to 4.0% in 2007.

Despite the higher unemployment rate, Dakota County continued to add jobs and businesses. Between 2006 and 2007, the County had a net gain of 2,589 jobs and 237 new businesses. Data also show median household income increasing in Dakota County from $66,478 in 2005 to $70,502 in 2006, representing a 2.7% increase after adjusting for inflation. Median household income remains above metro and state levels.

Dakota County's workforce increased in 2007 and showed higher rates of educational attainment than the region. Seventy-nine percent of the high school students in Dakota County graduated on time in 2006, ranking second in the metro area. Thirty-eight percent of the population in Dakota County have a bachelor's degree or higher. In 2007, Dakota County had the highest percentage (42.2%) of students who met or exceeded state standards in state comprehensive exams for 11th grade math.

See tab four for a complete report on Dakota County community indicators

1.4 Academic Goals:

VISION STATEMENT

Dakota County Technical College will be recognized as a leader in providing quality technical and general education needed for employment in an ever-changing work environment.

MISSION STATEMENT

The mission of Dakota County Technical College is to provide collegiate-level education for employment that will empower individuals to enhance their opportunities for career advancement and success in a global economy.

PHILOSOPHY

Dakota County Technical College is a public two-year institution of higher education dedicated to the philosophy that there is dignity in all work and value in individual growth and learning. It is the philosophy of the college that all of its students should have access to quality education that prepares them for rewarding careers. The college values its role in contributing to economic development by providing a knowledgeable and skilled workforce. The college views itself as a full partner in the higher education community and recognizes its contribution to lifelong learning.

VALUES

- Excellence: Focus on quality in programs and services
- Diversity: Show acceptance, openness and fairness to everyone
- Innovation: Encourage and reward new ideas, proactive thinking and use of evolving technology
- Respect: Foster trust, courtesy and open communication
- Integrity: Promote ethical and honest behavior
- Accountability: Maintain effective and efficient programs and services
- Collaboration: Work cooperatively in a supportive environment

ROLE IN MNSCU

As one of 32 institutions in the MnSCU system, Dakota County Technical College plays an important role in the metro area. Dakota County Technical College is one of 11 state institutions offering programs in the metro area. With campuses in Rosemount, Apple Valley, and Eagan, the college provides coverage in a wide variety of programs for the entire south metro area.

ACCOUNTABILITY PLANS

Dakota County Technical College's Accountability Plans are created by accrediting bodies or governing agencies and are focused on attainment of externally-assigned objectives or goals. Goals or objectives are reflected in all other levels of institutional planning. The institutional leadership team is accountable for meeting goals and to guide improvement efforts across five or more years.

HIGHER LEARNING COMMISSION: ACCREDITATION CRITERIA

The Criteria for Accreditation are organized under five major headings. Each Criterion has three elements: Criterion Statement, Core Components, and Examples of Evidence. The Criteria Statements define necessary attributes of an organization accredited by the Commission. An organization must be judged to have met each of the Criteria to merit accreditation. An organization addresses each Core Component as it presents reasonable and representative evidence of meeting a Criterion. The Examples of Evidence illustrate the types of evidence an organization might present in addressing a Core Component.

The Criteria are intentionally general so that accreditation decisions focus on the particulars of each organization, rather than on trying to make it fit a preestablished mold. The widely different purposes and scopes of colleges and universities demand criteria that are broad enough to encompass diversity and support innovation, but clear enough to ensure acceptable quality.

The Criteria Statements and Core Components are presented below.

Criterion One: Mission and Integrity.

The organization operates with integrity to ensure the fulfillment of its mission through structures and processes that involve the board, administration, faculty, staff, and students.

1a. The organization's mission documents are clear and articulate publicly the organization's commitments.

1b. In its mission documents, the organization recognizes the diversity of its learners, other constituencies, and the greater society it serves.

1c. Understanding of and support for the mission pervade the organization.

1d. The organization's governance and administrative structures promote effective leadership and support collaborative processes that enable the organization to fulfill its mission.

1e. The organization upholds and protects its integrity.

Criterion Two: Preparing for the Future.

The organization's allocation of resources and its processes for evaluation and planning demonstrate its capacity to fulfill its mission, improve the quality of its education, and respond to future challenges and opportunities.

2a. The organization realistically prepares for a future shaped by multiple societal and economic trends.

2b. The organization's resource base supports its educational programs and its plans for maintaining and strengthening their quality in the future.

2c. The organization's ongoing evaluation and assessment processes provide reliable evidence of institutional effectiveness that clearly informs strategies for continuous improvement.

2d. All levels of planning align with the organization's mission, thereby enhancing its capacity to fulfill that mission.

Criterion Three: Student Learning and Effective Teaching.

The organization provides evidence of student learning and teaching effectiveness that demonstrates it is fulfilling its educational mission.

3a. The organization's goals for student learning outcomes are clearly stated for each educational program and make effective assessment possible.

3b. The organization values and supports effective teaching.

3c. The organization creates effective learning environments.

3d. The organization's learning resources support student learning and effective teaching.

Criterion Four: Acquisition, Discovery, and Application of Knowledge.

The organization promotes a life of learning for its faculty, administration, staff, and students by fostering and supporting inquiry, creativity, practice, and social responsibility in ways consistent with its mission.

4a. The organization demonstrates, through the actions of its board, administrators, students, faculty, and staff, that it values a life of learning.

4b. The organization demonstrates that acquisition of a breadth of knowledge and skills and the exercise of intellectual inquiry are integral to its educational programs.

4c. The organization assesses the usefulness of its curricula to students who will live and work in a global, diverse, and technological society.

4d. The organization provides support to ensure that faculty, students, and staff acquire, discover, and apply knowledge responsibly.

Criterion Five: Engagement and Service.

As called for by its mission, the organization identifies its constituencies and serves them in ways both value.

5a. The organization learns from the constituencies it serves and analyzes its capacity to serve their needs and expectations.

5b. The organization has the capacity and the commitment to engage with its identified constituencies and communities.

5c. The organization demonstrates its responsiveness to those constituencies that depend on it for service.

5d. Internal and external constituencies value the services the organization provides.

MnSCU 2006-2010 STRATEGIC DIRECTIONS

Strategic Direction 1: Increase access, Opportunity and Success.

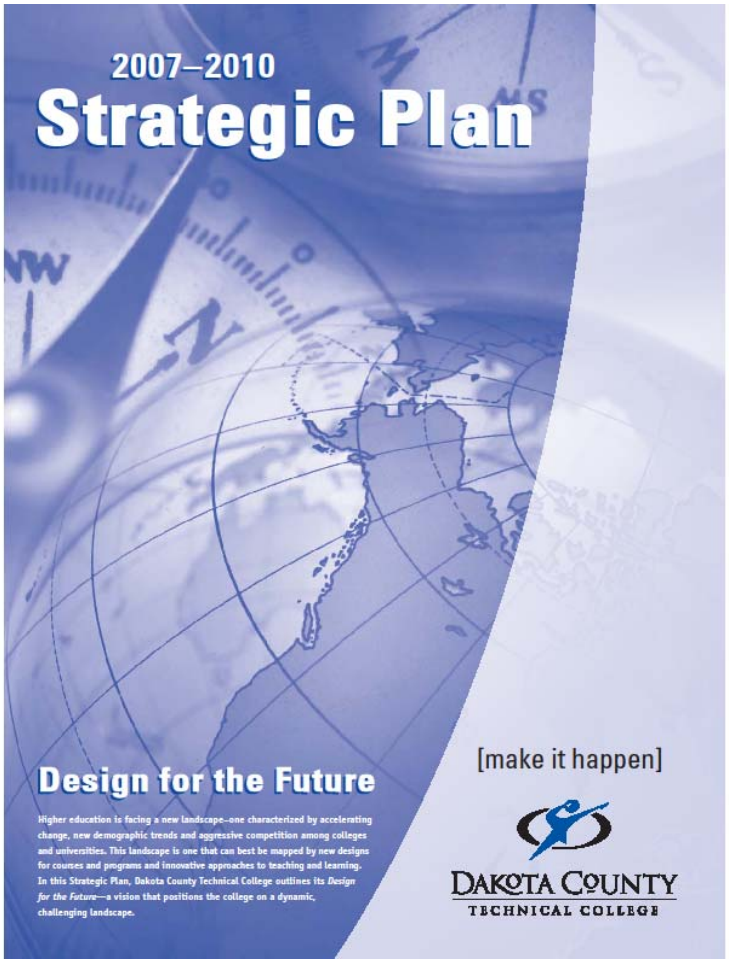
Strategic Direction 2: Achieve high quality learning through a commitment to academic excellence and accountability.

Strategic Direction 3: Provide learning opportunities, programs and services to enhance the global economic competitiveness of the state, its regions and its people.

Strategic Direction 4: Innovate to meet current and future educational needs.

Strategic Direction 5: Sustain financial viability during changing economic and market conditions.

SUMMARY OF DCTC 2007-2010 STRATEGIC PLAN



As part of the 2007-2010 Strategic Planning process, stakeholders were asked to reflect on the major external factors (i.e. opportunites and threats) that could have a significant impact on the ability of the College to attain its new strategic goals. Other questions asked respondents to identify the leading internal factors (i.e. strengths and weaknesses) that could affect the college in its pursuit of new strategic objectives. The committee identified both "opportunities" and "threats" within the larger community in addition to identifying the college's strengths and weaknesses. The Dakota County Technical College planning committee developed a strong set of goals to strive towards. These five goals are described in detail below.

See tab three for the complete strategic plan document

Goal 1 - Diversity

"Dakota County Technical College will attract and support more students and employees from diverse backgrounds, by sustaining a welcoming and supportive environment for personal and professional growth."

Diversity Performance Measures:

- Improved retention rates for students.
- Improved success rates for students.
- Achievement of Affirmative Action hiring goals.
- Increased participation in professional development and leadership training by faculty and staff.

Goal 2 - Enrollment

"Dakota County Technical College will expand its role in meeting the educational and training needs of students and businesses at the local, regional and national levels through innovative models of instructional delivery."

Enrollment Performance Measures:

- Increased enrollment in online coursework.
- Increased enrollment in customized training courses.
- Increased enrollment by continuing education students aged 25–44.

Goal 3 - Engagement

"Dakota County Technical College will increase for its students and employees to participate in service learning, sustainability, and civic engagement activities at the local, regional, national and global levels."

Engagement Performance Measures:

- Increased participation by students and faculty in service learning or other civic engagement activities.
- Increased campus sustainability efforts.
- Increased number of students and faculty involved in educational exchange and traveling scholar programs.
- Increased accountability reporting.

Goal 4 - Teaching and Learning

"Dakota County Technical College will enhance its educational and training options in science, technology, engineering, and mathematics (STEM) disciplines, for both its traditional students and the incumbent workforce."

Teaching and Learning Performance Measures:

- Increased enrollment in one or more college level science, technology, engineering or mathematics coursework.
- Increased program offerings in STEM-related fields.

Goal 5 - Financial Stewardship

"Dakota County Technical College will reduce its dependency on traditional revenue sources through innovative financial and fundraising strategies."

Financial Stewardship Performance Measures:

- Increased student access to and use of College Foundation scholarship funds.
- Increased levels of alumni support.
- Increased levels of faculty and staff participation in institutional grants program aimed at innovations in diversity, sustainability and retention .
- Increased financial support from external funding sources.

ACADEMIC OFFERINGS

Dakota County Technical College offers coursework and pre-professional programs for transfer to baccalaureate programs or for immediate entry into careers, including programs leading to Associate in Applied Science Degrees, Associate in Science Degrees, and diplomas and certificates in a wide variety of technical and academic areas. The College also has transfer agreements with several private colleges and public universities.

The College programs have been separated into six departments. These areas are Business and Information Systems, Business and Management, Design, Health and Human Services, Transportation, and Technical Careers.

ACCREDITATION AND APPROVALS

- Accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.
- Created by the 1969 Minnesota State Legislature and approved in 1970 by the Minnesota State Board of Education.
- Programs and facilities meet standards established by the Board of Trustees of the Minnesota State Colleges & Universities.
- All faculty are fully credentialed. Local advisory committees evaluate and approve all program majors.

- Offers higher education in accordance with the standards prescribed by the United States Department of Education, Vocational Division, through the Smith-Hughes National Vocational Education Act of 1917 and all subsequent acts.
- Approved for Veterans Educational Benefits by the Minnesota State Approving Agency.
- Approved by the Minnesota Division of Rehabilitation Services.

ACCREDITATION OF ACADEMIC PROGRAMS

- Academic programs that require special state and/or national accreditation status are listed below:
- The Dental Assistant program is accredited by the Commission on Dental Accreditation.
- The Interior Design program is accredited by the National Kitchen and Bath Association.
- The Landscape Horticulture program is nationally accredited by the Professional Landcare Network, or PLANET.
- The Medical Assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) on recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE).
- The Medical Coding Assistant program is approved by the Council on Accreditation of the American Health Information Management Association (AHIMA) through Anoka Technical College, Anoka, Minn.
- The Practical Nursing program is approved by the Minnesota Board of Nursing.

OTHER ACADEMIC PARTNERS

Dakota County Technical College's list of higher education, business and industry partners is extensive and growing, which ensures that their students receive excellent training.

Partners include:

Access Event Network, Inc.
Ascolta
Advanced Wireless Communications
African Community Services
Agel Enterprises
Airport Police Department
AllFlex Inc.
Andersen Corporation
Apple Valley Fire Department
Apple Valley Police Department
ASE/ACT Test Administration
Automation Training
Bayport Police Department
BCA Training and Development
Behne Trucking, Inc.
Belle Plaine Fire Department
Berger Transfer and Storage
Bituminous Roadway
BNI Valley Networkers
Butler Manufacturing
Cannon Falls Ambulance
Cannon Falls Police Department
Cannon Falls School Bus
Carver County
Chaska Police Department
City of Apple Valley
City of Bloomington
City of Burnsville
City of Cannon Falls
City of Chanhassen Public Works
City of Crystal Public Works
City of Eden Prairie
City of Elko-New Market Public Works
City of Excelsior Public Works
City of Golden Valley Public Works
City of Hastings Public Works
City of Lakeville
City of Long Lake Public Works
City of Mahtomedi Public Works
City of Maplewood/North St. Paul
City of Minneapolis
City of Minnetonka
City of Minnetrista Public Works
City of New Brighton Public Works
City of Newport Public Works
City of Northfield
City of Oakdale Public Works
City of Plymouth
City of Red Wing Public Works
City of Rosemount
City of Roseville Public Works
City of Shakopee Public Works
City of St. Paul
City of Victoria Public Works
City of West St. Paul
City of Woodbury Public Works
Classrooms Unlimited
Comcast
Con Agra Store Brands
Corvettes of Minnesota
COSi - Cycle of Success Institute
Cottage Grove Public Safety Department
Dakota County CDA
Dakota County Sheriff's Office
Dakota County Workforce Services
Dakota Electric Association
Datakey Electronics International
Deephaven Police Department
Dimation, Inc.
Dodge Center Ambulance
Eagan Police Department
Eagle Transport Services Inc.
Eaton Corporation
Eden Prairie Fire Department
Edina Fire Department
Edina School District
ExecuTrain of Utah
Faribault Fire Department
Fastlane Consulting and Education
Flint Hills Resources, LP
Frontier Communications
Fusion Culinary Center
G Team Inc.
Glacier Lakes Quattro Club
Global Learning Alliance
Golden Valley Fire Department
Gonzit LLC
Goodhue County Sheriff's Office
Goodrich Sensor Systems Corporation
Great Equalizer, Inc. / Ascolta
Hastings Fire Department
Hastings Police Department
Healthcare Business Solutions
HEI, Inc.
Hennepin County Transportation
ICI Paints
Independent School District 191
Independent School District 196
Inver Grove Heights Police Department
Jefferson Lines
Kenyon Police Department
Knowledge Development Centers
Knowledge Peak
Kryterion

Lake City Police Department
Lakeville Police Department
Land O'Lakes Region, Sports Car Club of America
Landis & Gyr
Lifetrack Resources Inc.
Lockheed Martin
Maplewood Fire Department
Marathon Ashland Petroleum
Marcom Nordic
Mdewakanton Fire Department
Mendota Heights Police Department
Metropolitan Council
Michael Foods, Inc.
Minneapolis Police Department
Minneapolis Public Schools
Minnesota Association for Children's Mental Health
Minnesota Autosports Club
Minnesota Energy Consortium
Minnesota National Guard
Minnesota Subie Owners Club
Minnesota Teamsters Service Bureau
Minnesota Valley Electric Cooperative
Minnesota Valley Transit Authority
Morrell Transfer
Navy Island Plywood, Inc.
NCS Pearson, Inc.
Newport Police Department
Noodles & Company
North St. Paul/Maplewood Schools
North Star BMW Club
Northfield Police Department
Northshore Mining Company
Northwest Airlines
Oak Park Heights Police Department
Oakdale Police Department
Parents in Community Action
Pepsi Bottling Group
Performance Office Papers
Plainview Police Department
Prince Agri Products, Inc.
Prior Lake Police Department
Prometric
Q Carriers Inc.
Ramsey County Public Works
Red Wing Police Department
Rescar Companies
Rice County Sheriff's Office
Richfield Department of Public Safety
Richfield Fire Department
Richfield Public Schools
Rochester Police Department
Rosemount Police Department
Roseville Police Department
Savage Police Department
Scott County
Shakopee Police Department
Sodexo Health Care and Campus Services
South Metro Fire Department
South St. Paul Police Department
St. Paul Fire Department
St. Paul Park Police Department
St. Paul Police Department
St. Paul Public Schools
St. Peter Police Department
Star Cycle
Steve Bauman Motorcycle Safety
Sysco Asian Foods, Inc.
Taylor Truck Line, Inc.
Timberland Partners
Toro Company
Tru Vue
Union Pacific Railroad
United States National Guard
UPONOR North America
US Department of Homeland Security
Wabasha County Sheriff's Department
Washington County
Washington County Sheriff's Office
Wenger Corporation
West Metro Fire/Rescue
West St. Paul/Mendota Heights School District
Wiseway Transportation Services
Woodbury Fire Department
Woodbury Police Department
Word Relief Minnesota
Workforce Solutions

Real Education. Real Results

DISTRICT 917 – Integrating education:

Co-located with Dakota County Technical College on the Rosemount Campus, District 917 serves the school districts of:

- Burnsville - District 191
- Farmington - District 192
- Hastings - District 200
- Inver Grove Heights - Dst. 199
- Lakeville - District 194
- Randolph - District 195
- South St. Paul - District 06
- W. St. Paul - District 197

See section 2.9 for map

Intermediate School District 917 provides increased opportunities for personal and career skill development and provides educational programs that meet the individual and technical needs of students.

Mission:

Intermediate School District 917 serves as the best resource for school districts committed together to success for all learners.

Special Education Services

Intermediate School District 917 serves the low incidence needs of students from eight member school districts in the southeastern metropolitan area. These districts include Burnsville, Farmington, Hastings, Inver Grove Heights, Lakeville, Randolph, South St. Paul and West St. Paul. As space permits, referrals are accepted from other districts for programming.
Programs and services are offered because member school districts desire comprehensive program options and efficient special education services that can be offered cooperatively under the direction of Intermediate School District 917.

Philosophy of Special Education

Whereas, public education is a fundamental right of all children and youth and whereas, every person is entitled to an equal opportunity to obtain an education, the School Board of Intermediate School District 917 upholds the following beliefs as a basis for program decisions:

- Students are to be valued equally.
- All students can learn, including students with disabilities.

- Individual education plans are to be developed through cooperation of resident district staff, Intermediate School District 917 staff and parents/guardians on the basis of varied sources of information. These individual education plans shall portray a comprehensive and accurate view of a student, his or her abilities and needs including transitional issues important to settings that the student will experience after graduation as well as extended school year.
- Students with disabilities must be served in an environment appropriate to their educational needs. We believe that providing services to students with disabilities in integrated settings is determined by individual student needs and should be practiced and encouraged when that setting will foster appropriate educational growth.
- Educators from the resident school districts and Intermediate School District 917 must cooperate with each other and other human service agencies in order to achieve comprehensive student centered services.
- Because the school district in which the student resides is legally responsible for the special education services provided to the student, District 917 must also be responsive to the expectations of that district.

Dakota County Technical Center (DCSTC)

The Dakota County Secondary Technical Center provides technical education for high school students in 10th, 11th, and 12th grade in the southeast suburbs through 16 technical programs.

High school students are eligible to enroll in any of the technical career areas offered. Students attend technical classes as part of their high school day by attending one of three 100-minute periods. Learning occurs in a hands-on setting with relevant business and industry technology. Some of the opportunities available to students include:

Benefits:

- Technical education while in high school
- Bus transportation from home school
- No tuition
- Development of job skills
- Fall Open House
- Exploration of career opportunities

TECHNOLOGY PLAN INTEGRATION

The Dakota County Technical College 2010-2012 Technology Master Plan was developed by identifying initiatives that align with the MnSCU 2008-2010 Strategic Plan for the system as well as the Dakota County Technical College 2007-2010 Strategic Plan and Dakota County Technical College Master Facilities Plan 2010-2015. Each initiative identifies which goal or direction it will coordinate with.

Technology Master Plan Goals

Goal 1: Provide exceptional technology infrastructure to support to academic programs and departments through continuous review, enhancement, and renewal.

Goal 2: Provide exceptional technology support to academic programs and departments through continuous review, enhancement, and renewal.

Goal 3: Provide exceptional resources and support of online learning programs.

Goal 4: Meet future technology challenges with flexibility and speed.

See appendix tab ten for the complete technology master plan

1.5 Positive Aspects of the Campus:

STRENGTHS

- A well-established reputation for providing quality technical education
- A low-cost provider of post secondary education
- Recent renovations to the physical plant
- A campus-wide focus on student-centeredness
- Increasing numbers of students seeking transfer degrees and baccalaureate opportunities
- Increasing diversity among the student body

OPPORTUNITIES

- Increased industry demand to replace retiring workforce and assist with labor shortages
- Expansion in housing and new commercial development in Rosemount area
- Increased student demand for alternative educational delivery methods (e.g., online)
- Growth in number of unemployed and displaced workers
- Heightened interest in STEM-related education (i.e., science, technology, engineering and math)
- Ongoing development of training programs to support alternative energy sources
- Increasingly diverse population across the college's service region

This page left blank intentionally

1.6 Campus Challenges:

WEAKNESSES

- Limited physical space for growth or expansion of academic programs.
- Limited resources for marketing, recruitment and retention
- No residential facilities on campus
- Limited student life activities and programming
- Co-located with another educational agency
- Limited diversity among staff and faculty

THREATS

- Ongoing reductions in public funding for higher education
- Ongoing increases in student tuition
- Lack of public transportation to and from campus
- Lack of support services for immigrant population
- Increasing competition from for-profit colleges, both land-based and online
- Public perception as a vocational technical school, not a college
- Lack of public or subsidized housing near campus

This page left blank intentionally

2.1 Location within the Metro area and context to communities and other educational institutions.

The location of the college just off of Highway 52 is remote, yet easily accessible within 20 minutes of Minneapolis and St. Paul.

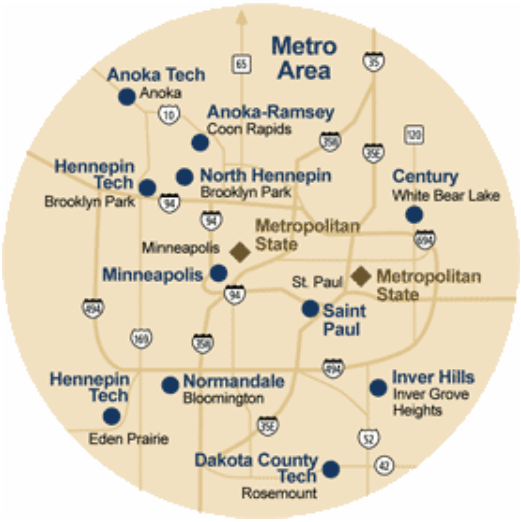
Located a few miles east of Rosemount, community resources are limited to small town amenities. The most notable missing amenities are public transportation and lodging.

The College draws high school graduates from the surrounding school districts of Rosemount-Apple Valley-Eagan, Hastings, Lakeville, Randolph, Farmington and Prior Lake.

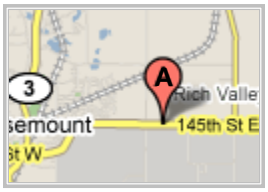
2.2 Campus Locations:

Dakota County Technical College campus locations include owned and leased space in Rosemount, Apple Valley, Eagan and South St. Paul.

MnSCU Campus locations



MAIN CAMPUS (Owned)



Located in the heart of Rosemount, Minn., just minutes away from the Twin Cities, the main campus of Dakota County Technical College reflects the intimacy of a small town with the networking and cultural advantages of a modern metropolitan area.

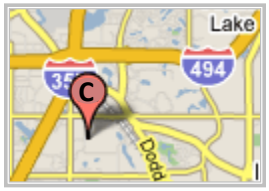
Dakota County Technical College
1300 145th Street East (County Road 42)
Rosemount, MN 55068
651-423-8301

APPLE VALLEY SITE (Leased)

Formerly the **Apple Valley** City Hall, the college's newest site, Partners in Higher Education, represents a partnership between DCTC, Inver Hills Community College and St. Mary's University of Minnesota to host a variety of postsecondary offerings, including undergraduate, graduate and customized training courses.

Partners in Higher Education
14200 Cedar Avenue
Apple Valley, MN 55124
651-423-8600

IT TRAINING CENTER – EAGAN (Leased)



Equipped with state-of-the-art technology and classrooms for students pursuing industry certifications such as Microsoft Certified Systems Engineer (MCSE), Microsoft Certified Solution Developer (MCSD) and Cisco Certification, the IT Training Center is part of the college's Customized Training division.

DCTC IT Training Center Eagan
3140 Neil Armstrong Blvd.
Eagan, MN 55121
651-406-4754

SOUTH ST. PAUL SITE (Owned)

Utilized for storage space or occasional academic or athletic program space

125 Grand Ave E.
South St. Paul MN 55075

2.3 Main Campus Land Management:

Main Campus existing conditions

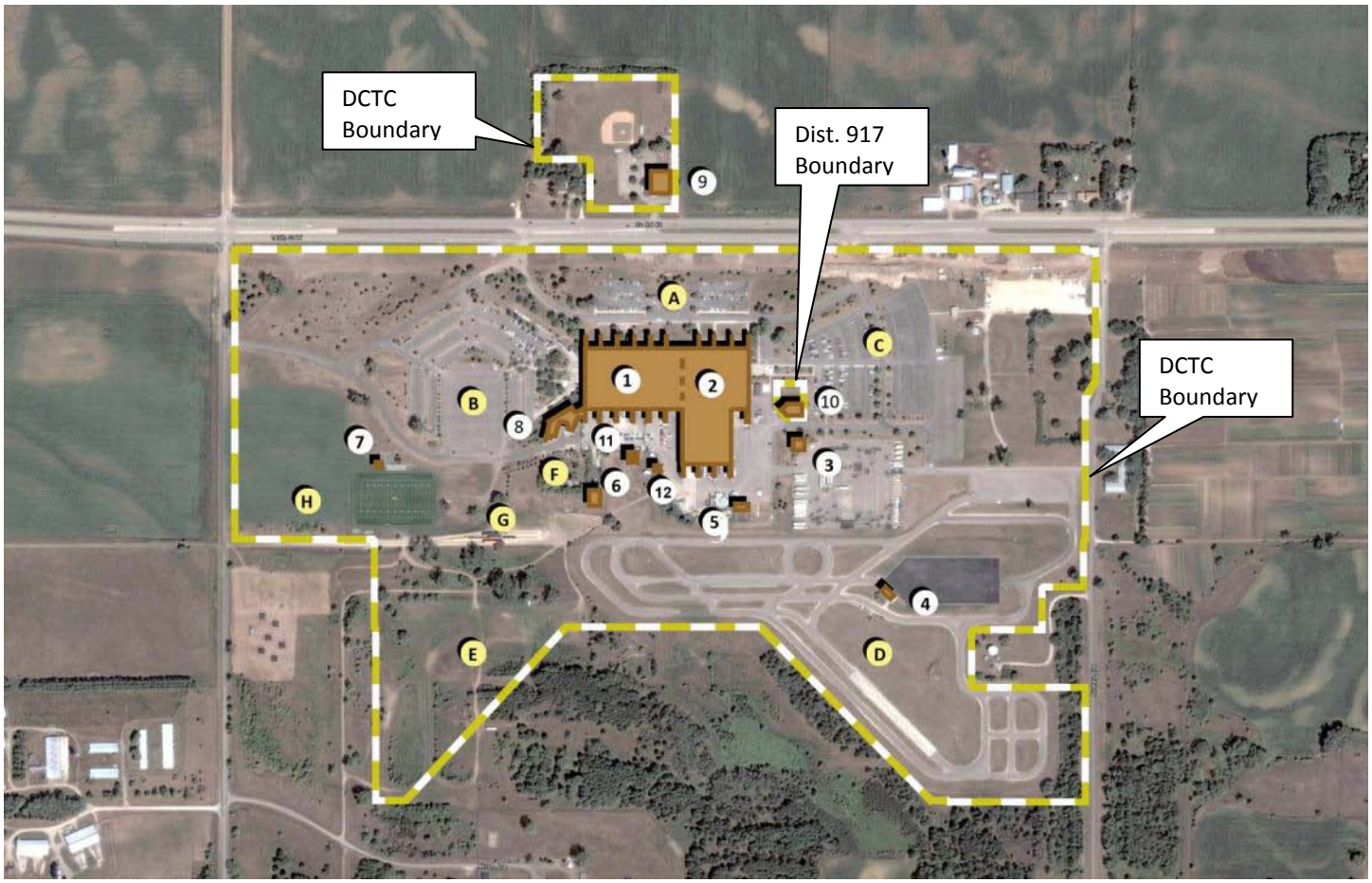
1. Main Building
2. Main Building Addition
3. Truck Driving Facility
4. Driving Range Maintenance Shed
5. Lineman Shed
6. Maintenance Shed and Storage
7. Pump House
8. Greenhouse
9. Chrysler Training Center
10. District 917 property and building (not owned)
11. Cooling Tower
12. Radio Tower Building

A. Visitor and Faculty Parking
B. West Parking
C. East Parking
D. Decision Driving Course
E. Lineman training outdoor course
F. Landscape and Horticulture installations
G. Railroad conductor training site
H. Community Soccer Complex

2.4 Main Campus Property Description:

The main campus consists of 169 acres south of Hwy 42 and a separate 8 acre parcel north of Hwy 42. There is a small 1/3 acre parcel east of the main building that is owned by District 117. A purchase of 64 acres including the Decision Driving Track, lineman training area and vacant land that was formerly leased from the University of Minnesota was completed in 2010.

See appendix tab nine for complete property information

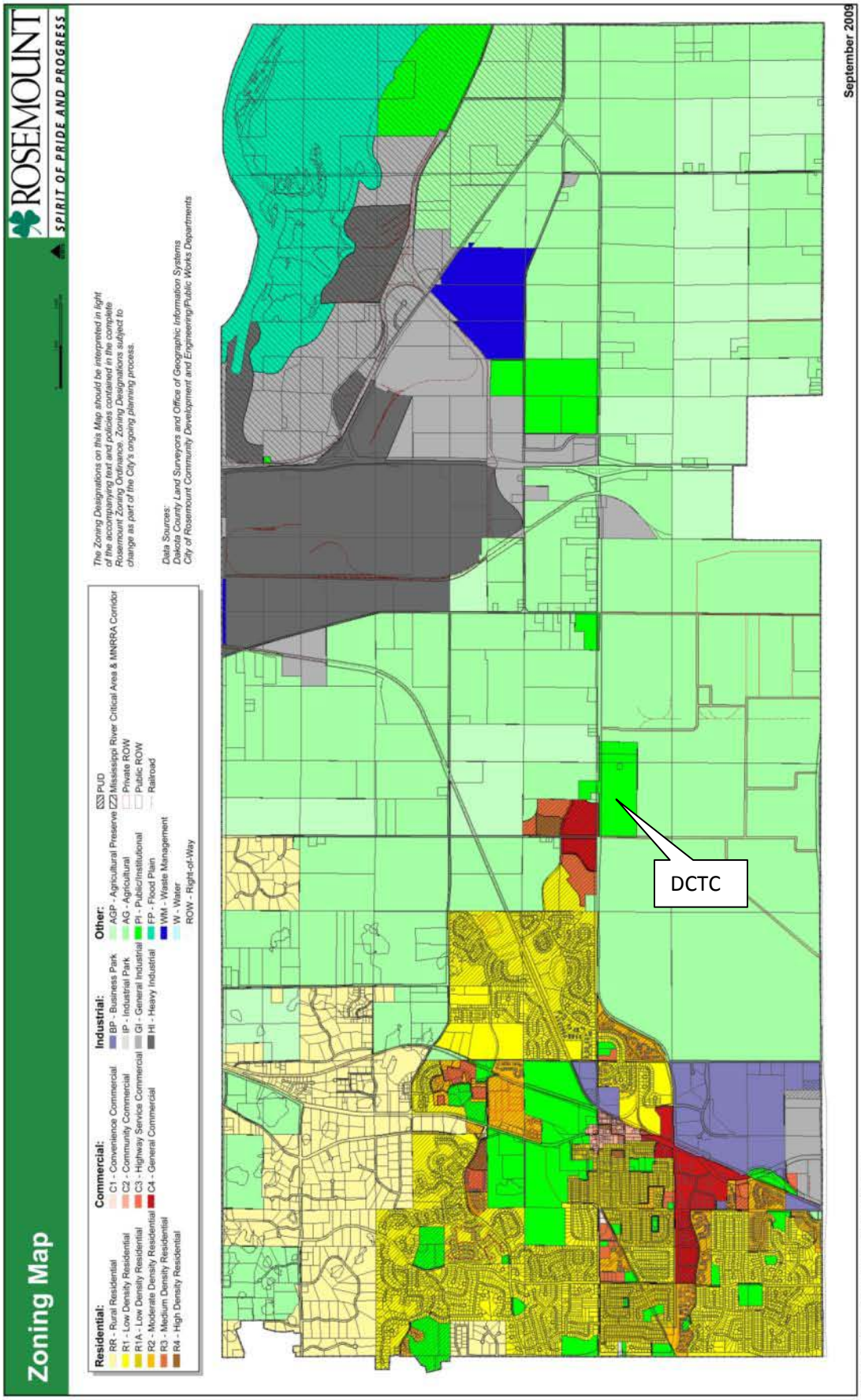

DCTC Boundary
Dist. 917 Boundary
DCTC Boundary
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
9
10
11
12

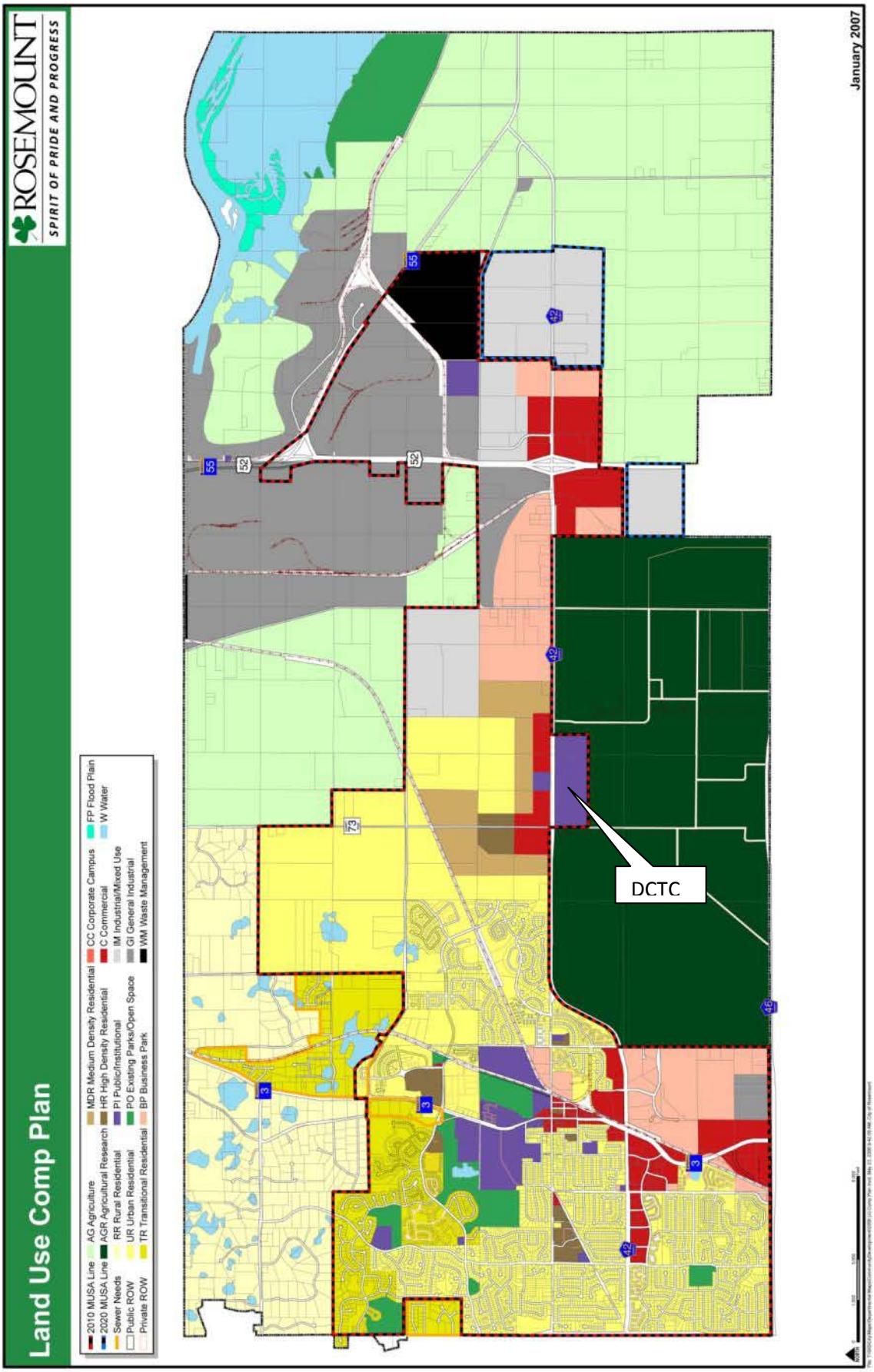
2.5 Zoning and Comprehensive Plan:

The city of Rosemount zoning map indicates that the original 100 acres south of Hwy 42 and 8 acres north of Hwy 42 are PI-Public/Institutional zoning. The 60 acres purchase in 2010 are currently zoned Agricultural Preserve with the Comp Plan indicating a future use of Agricultural/Research.

2.6 Municipal Utility Service Area (MUSA)

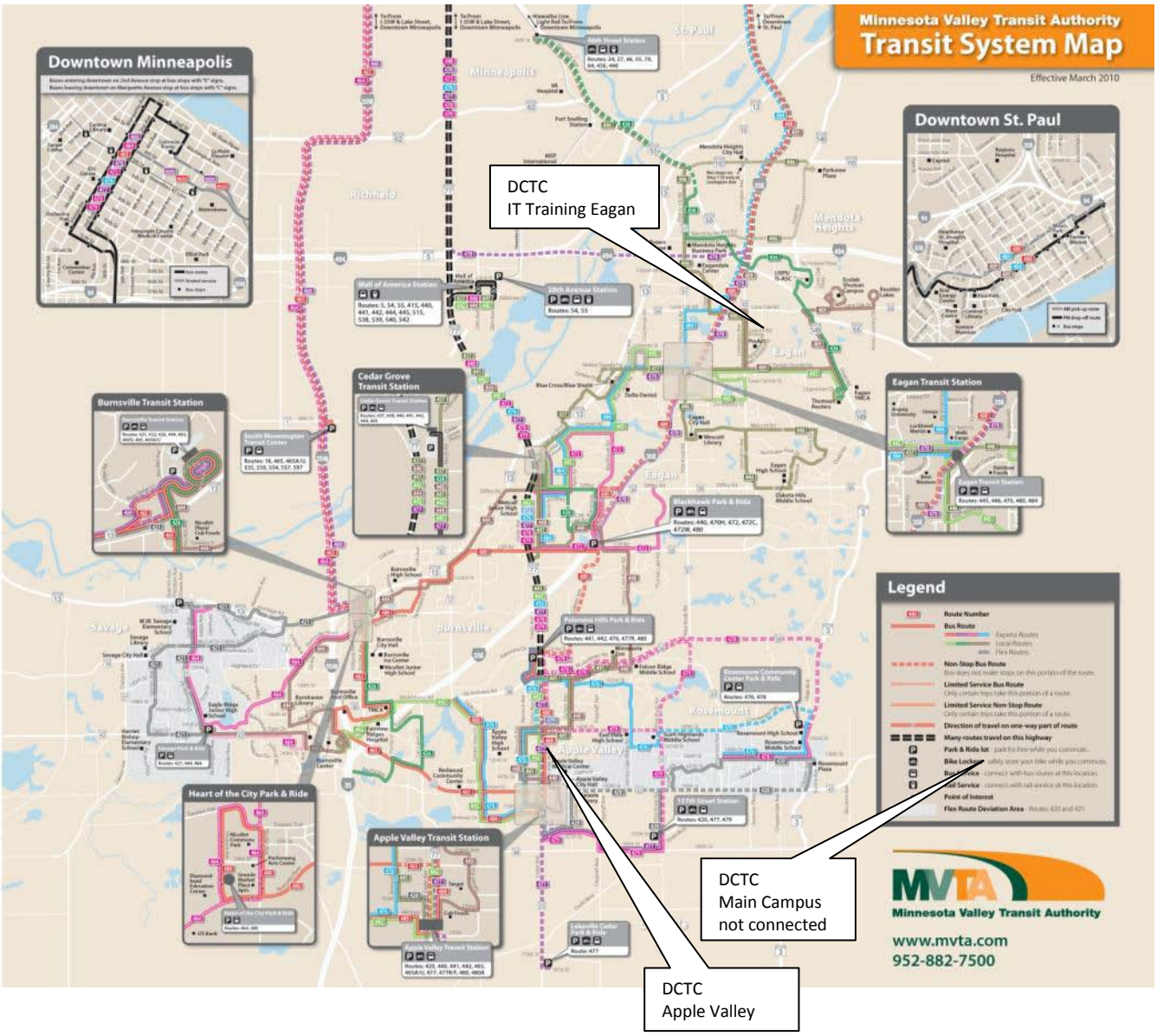
The current and planned extent of the MUSA limits through 2020 indicate no expansion of sewer or water services will be available for the land purchased in 2010 south and east of the main campus.


Zoning Map
ROSEMOUNT
SPIRIT OF PRIDE AND PROGRESS
Residential:
RR - Rural Residential
R1 - Low Density Residential
R1A - Low Density Residential
R2 - Moderate Density Residential
R3 - Medium Density Residential
R4 - High Density Residential
Commercial:
C1 - Convenience Commercial
C2 - Community Commercial
C3 - Highway Service Commercial
C4 - General Commercial
Industrial:
BP - Business Park
IP - Industrial Park
GI - General Industrial
HI - Heavy Industrial
Other:
AGP - Agricultural Preserve
AG - Agricultural
PI - Public/Institutional
FP - Flood Plain
WM - Waste Management
W - Water
ROW - Right-of-Way
PUD
Mississippi River Critical Area & MNRRA Corridor
Private ROW
Public ROW
Railroad
The Zoning Designations on this Map should be interpreted in light of the accompanying text and policies contained in the complete Rosemount Zoning Ordinance. Zoning Designations subject to change as part of the City's ongoing planning process.
Data Sources:
Dakota County Land Surveyors and Office of Geographic Information Systems
City of Rosemount Community Development and Engineering/Public Works Departments
DCTC
September 2009


ROSEMOUNT
SPIRIT OF PRIDE AND PROGRESS
Land Use Comp Plan
2010 MUSA Line
2020 MUSA Line
Sewer Needs
Public ROW
Private ROW
AG Agriculture
AGR Agricultural Research
RR Rural Residential
UR Urban Residential
TR Transitional Residential
MDR Medium Density Residential
HR High Density Residential
PI Public/Institutional
PO Existing Parks/Open Space
BP Business Park
CC Corporate Campus
C Commercial
IM industrial/Mixed Use
GI General Industrial
WM Waste Management
FP Flood Plain
W Water
DCTC
January 2007

2.7 Public Transportation

There is currently no public transportation that serves the main campus. Several attempts with Minnesota Valley Transit have been deemed failures due to lack of ridership. Should another attempt occur, it was noted that the past attempts to connect the campus to Minnesota Valley Transit lines through shuttles were started well after the beginning of a semester and students who may have used public transportation had made other arrangements or become accustomed to solo commuting.



2.8 Campus Context and Adjacent Properties

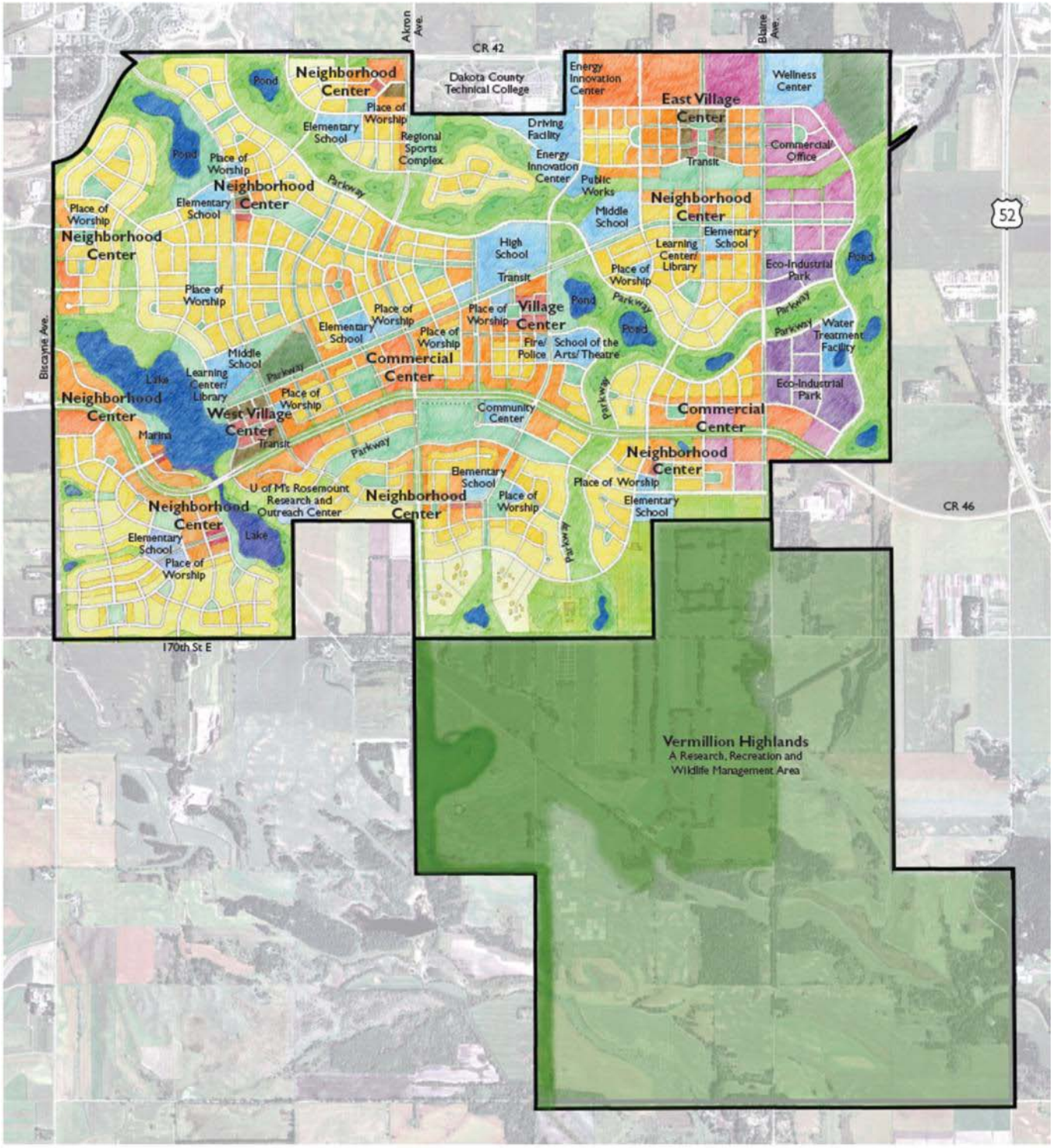
North of Hwy 42 surrounding the 8 acre site is currently zoned or planned for general commercial. This will allow future development of commercial activities such as lodging, dining and entertainment to develop to serve the college and community.

The campus south of Hwy 42 is surrounded on all sides by the University of Minnesota Outreach, Research and Education (UMore) Park. The vision to build a University-founded community of 20,000-30,000 people at UMore Park, a 25- to 30-year endeavor, was affirmed by the Board of Regents in December 2006. The plan for this new, sustainable community integrates environmental, socio-cultural and economic opportunities with a specific focus on innovations in renewable energy, education and lifelong learning, health and wellness, the natural environment and regional economic development.

UMore development plans indicate that the property directly west of the campus will be the site of gravel mining for years to come.

There are ongoing discussions between the city of Rosemount and UMore LLC regarding the development of parkland for recreational fields southwest of the campus. These discussions are likely to extend into or beyond 2011.

See tab five for a complete copy of the UMore Park concept master plan


Akron Ave.
CR 42
Blaine Ave.
Dakota County Technical College
Energy Innovation Center
Wellness Center
East Village Center
Neighborhood Center
Pond
Place of Worship
Elementary School
Regional Sports Complex
Driving Facility
Commercial/ Office
Transit
Parkway
Public Works
Middle School
High School
Learning Center/ Library
Eco-Industrial Park
Water Treatment Facility
Village Center
Fire/ Police
School of the Arts/ Theatre
Commercial Center
Community Center
Lake
Marina
West Village Center
U of M's Rosemount Research and Outreach Center
Biscayne Ave.
170th St E
CR 46
52
Vermillion Highlands
A Research, Recreation and Wildlife Management Area
Legend
Single Family Residential (large lot)
Single Family Residential (small lot)
Single Family Residential (attached)
Multi Family Residential
Mixed-Use
Commercial/Retail
Commercial/Office
Light Industrial/Office
Civic/Institutional/Education
Parks and Parkways
Open Space
Water
Wetlands
Forest
VERMILLION HIGHLANDS
Highest Intensity Use
Moderate Intensity Use
Low Intensity Use
The shades of color on the Vermillion Highlands indicates intensity of use, with lowest intensity being lightest uses of all kinds to preserve the environmental character of the land and allows for habitat restoration.
The Concept Master Plan offers guidelines for development over 25 to 30 years while accommodating flexibility for new opportunities and innovation. The plan is anchored by the University research and education that will add value to the community and the surrounding region.

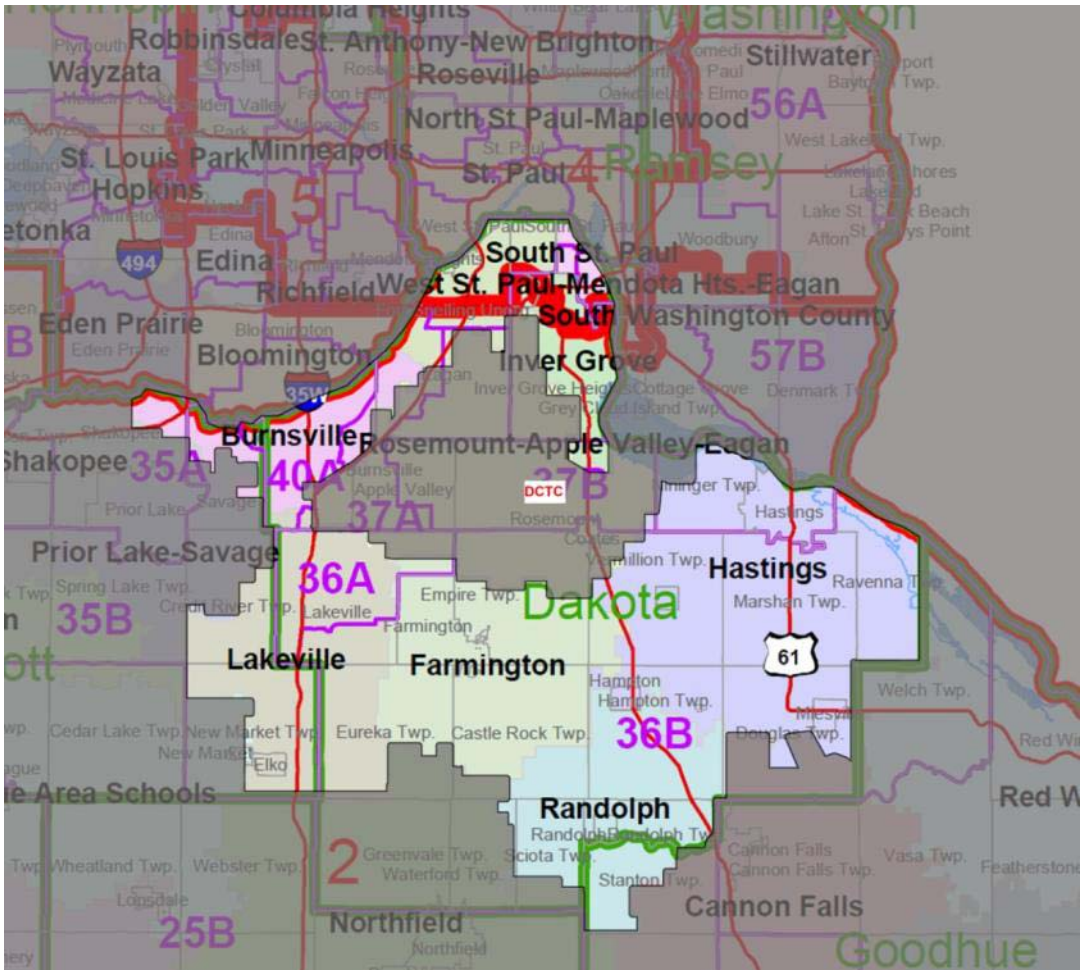
2.9 District 917 boundaries

Intermediate School District 917 provides increased opportunities for personal and career skill development and provides educational programs that meet the individual and technical needs of students.

Member school districts include

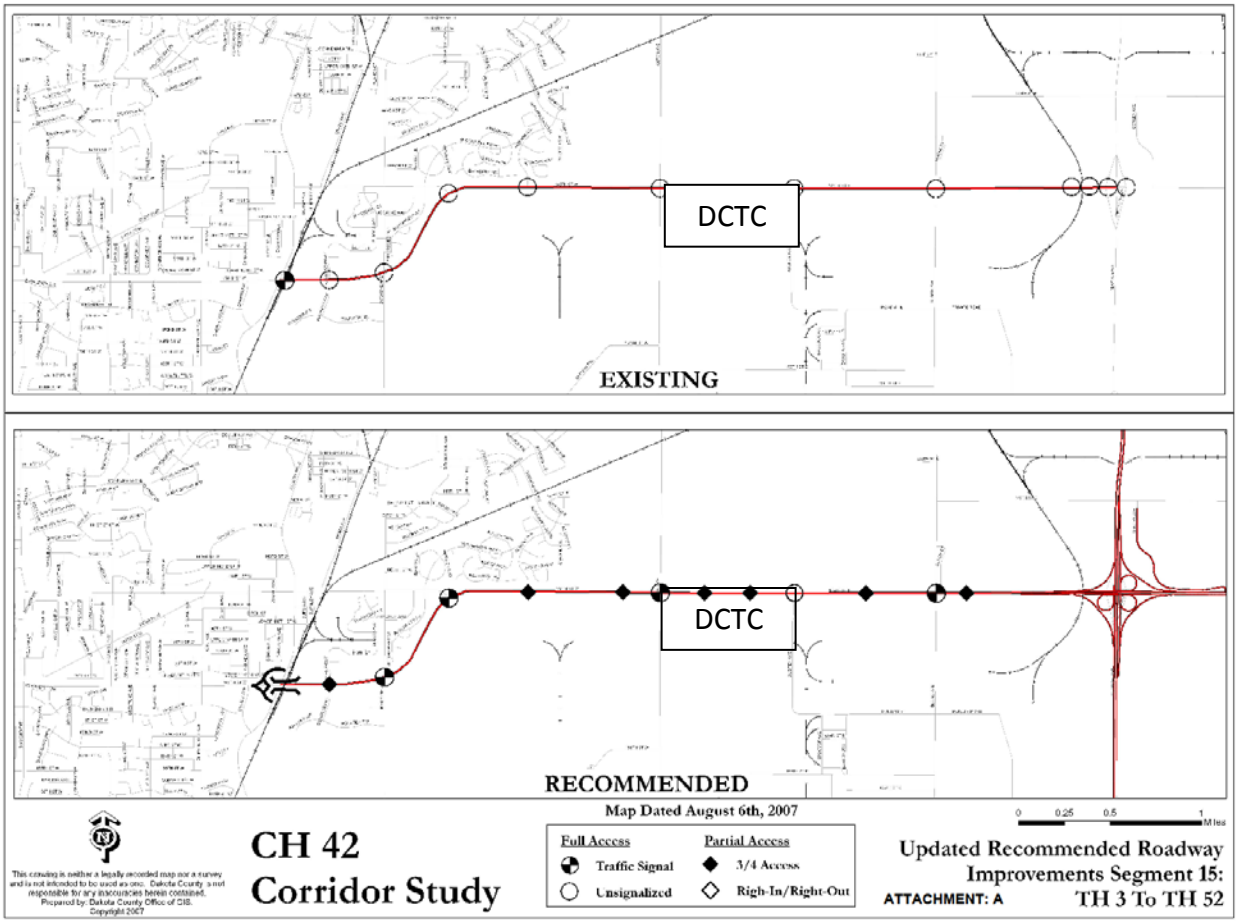
- Burnsville - District 191 – over 10,000 students
- Farmington - District 192 – approximately 5,000 students
- Hastings - District 200 – approximately 4,000 students
- Inver Grove Heights - District 199 - approximately 3,700 students
- Lakeville - District 194 – approximately 11,200 students
- Randolph - District 195 – approximately 500 students
- South St. Paul - District 06 - approximately 3,500 students
- West St. Paul - District 197 - approximately 4,400 students

See section one, page 34 for more information on district 917



2.10 Traffic Management

Currently planned projects for improvement of County Road 42 include completing the interchange of 42 and Hwy 52 with a clover leaf interchange design. Long range projects may include controlled intersections and right-in, right-out access.



2.11 Landscape Plan

Dakota County Technical College has an outstanding Landscape Horticulture program. During the development of this project, the stormwater management plans outlined in section three were presented and discussed with the students as they developed their own stormwater management projects for class.

Current landscaping on campus has evolved over time, with outstanding designs that are isolated from each other at various locations around the campus. Recent landscaping improvements on campus include improved stormwater management and rain gardens between the visitor parking lots and County Road 42. There is also a naturalized area of grasses that has been developed as part of the Pheasants forever program.

There is a need to complete a landscape plan that covers the entire campus and ties together the various styles of existing landscaping. This plan should be developed in conjunction with student Landscape and Horticulture internships to ensure that the quality of the program shows in the final landscape plan.

2.12 Wayfinding and Branding

DAKOTA COUNTY
TECHNICAL COLLEGE

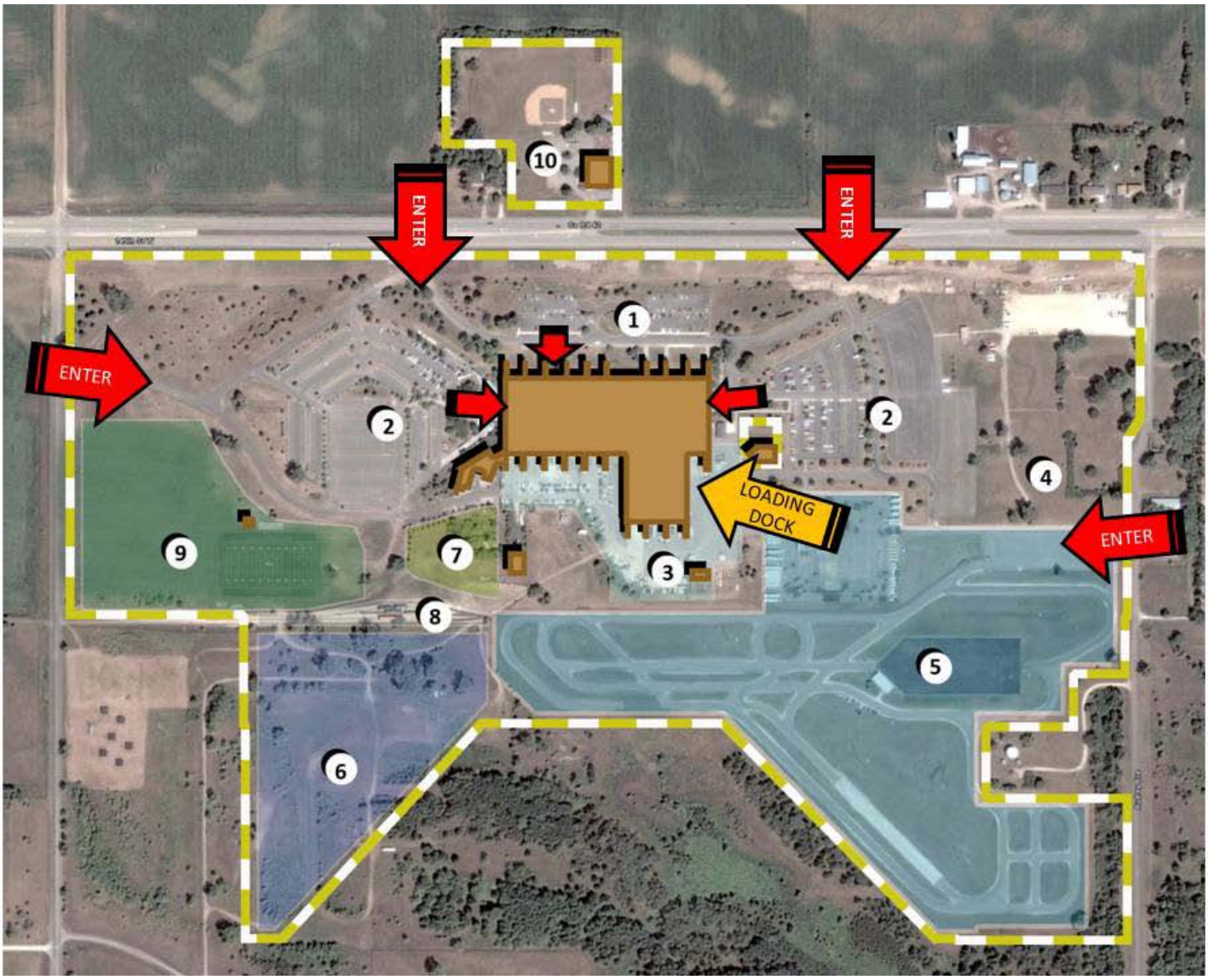
DAKOTA COUNTY
TECHNICAL COLLEGE

A major step in implementing a wayfinding and branding program has been completed by establishing a consistent logo and construction of new campus entry signs at all entries to the campus.

The next steps necessary to continue the wayfinding and branding process would be as follows:

- Complete on-campus vehicular signage that clearly directs visitors to parking, service, decision driving, District 917, baseball and soccer fields. The style of signage should be consistent with the new entry signage.
- Many MnSCU campuses have implemented electronic welcome kiosks and directories. Located at the east and west entries are critical where there are no staffed welcome areas. A kiosk at the main entry may be helpful in addition to the staffed welcome station.
- Signage at Apple Valley and Eagan should be revised to be consistent with the new entry signage.
- The grid of corridors throughout the main building is sometimes confusing. Some concepts that might be further developed include naming the corridors as “streets”, or color coding the signage along various corridors.

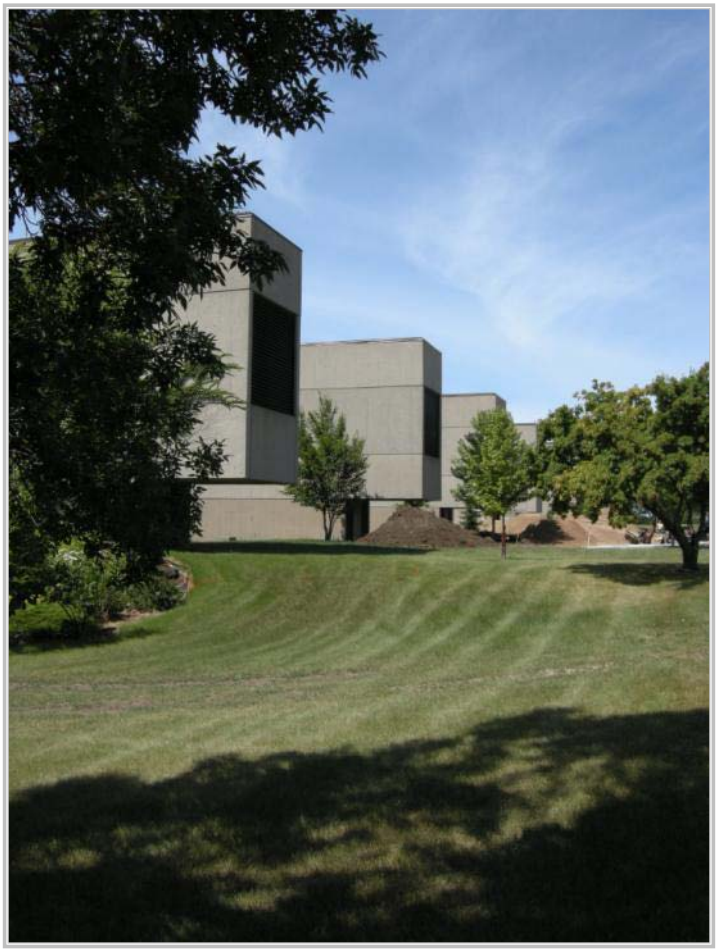
2.13 Current Campus use and zoning



1. Visitor parking
2. Student parking
3. Service and outdoor storage for transportation programs
4. Baseball field currently under construction
5. Decision Driving course
6. Lineman training course
7. Railroad conductor program
8. Landscape horticulture installations
9. Ames soccer complex
10. Chrysler shops

3.1 Building Analysis and Summary

Unlike many of the other institutions in the MnSCU system, the main campus of Dakota County Technical College is located in a single large building. That building, completed in 1973 and 1979, is an example of the modernist style referred to as *Brutalism.* As the name implies, characteristics of this style include a "larger than life" scale using simple unarticulated concrete forms with minimalist detailing and deference to functionality.



The main north facade of this main campus building is punctuated by a series of massive concrete "fins" jutting out from the building proper that march along county road 42. These fins contain the mechanical system for each adjacent bay as well as the egress stairs.

This design carries associations of a large industrial machine or factory, which is quite accurate as the organization is determined by the way in which the mechanical system is applied within the building. While this is an appropriate image for an institution with such a heavy emphasis on technical education and the industrial workplace, the scale of this main building is an imposing force on the surrounding landscape.

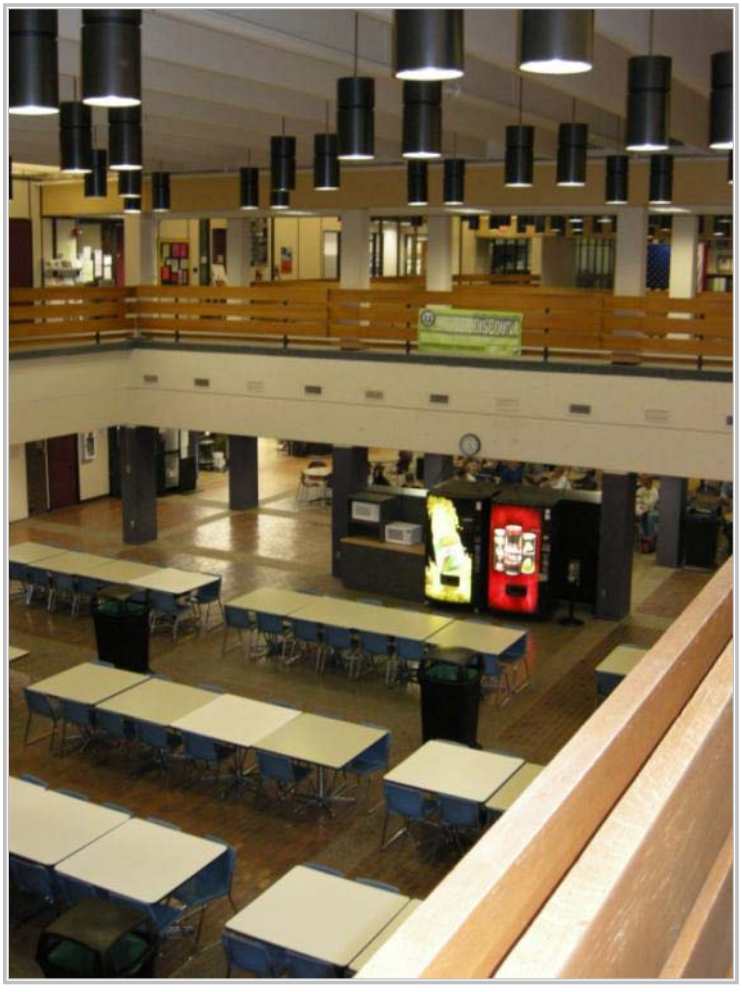
This surrounding landscape was once open agricultural land and industrial sites and the building made a strong statement of its presence in this environment. Today suburbia has encroached on the once rural site changing the context in which the building is perceived, and requiring modifications to its aesthetic to allow it to more appropriately fit into its community.

The building facade is designed asymmetrically with one "fin" location left open to the glazed atrium of the student lounge and balanced by the glass arch of the main entry canopy between the third and fourth bays to the west. Parking lots of relatively equal size are located at either end of the building, and a smaller visitor lot is located between the north fagade and County Road 42. The

southern face of the building is primarily used as access to the industrial shop spaces on the lower level. Beyond the building and parking to the south and east are the Decision Driving Range and the Truck Driver Rodeo and Custom Training Grounds.

The building itself is organized as a series of similarly sized bays located between narrow bands that contain the mechanical ductwork and the building circulation. Within that system the poured concrete structural columns and beams present a regular organizing element that is visible throughout the entire building and that produce the perception of a strong, singular, unifying order. The primary circulation core of the building runs perpendicular to the mechanical system and cross corridors to connect each bay.

There is a two-story open atrium style common gathering space at the entries at each end. A similar open common area, three bays wide in the center of this circulation core, acts as a gathering space and cafeteria seating area. This provides the necessary "breathing room" that allows the building organization to be understood as well as preventing the building's size and layout from seeming overwhelming and unclear. It functions in much the same way as an external courtyard would in a multi-building campus.

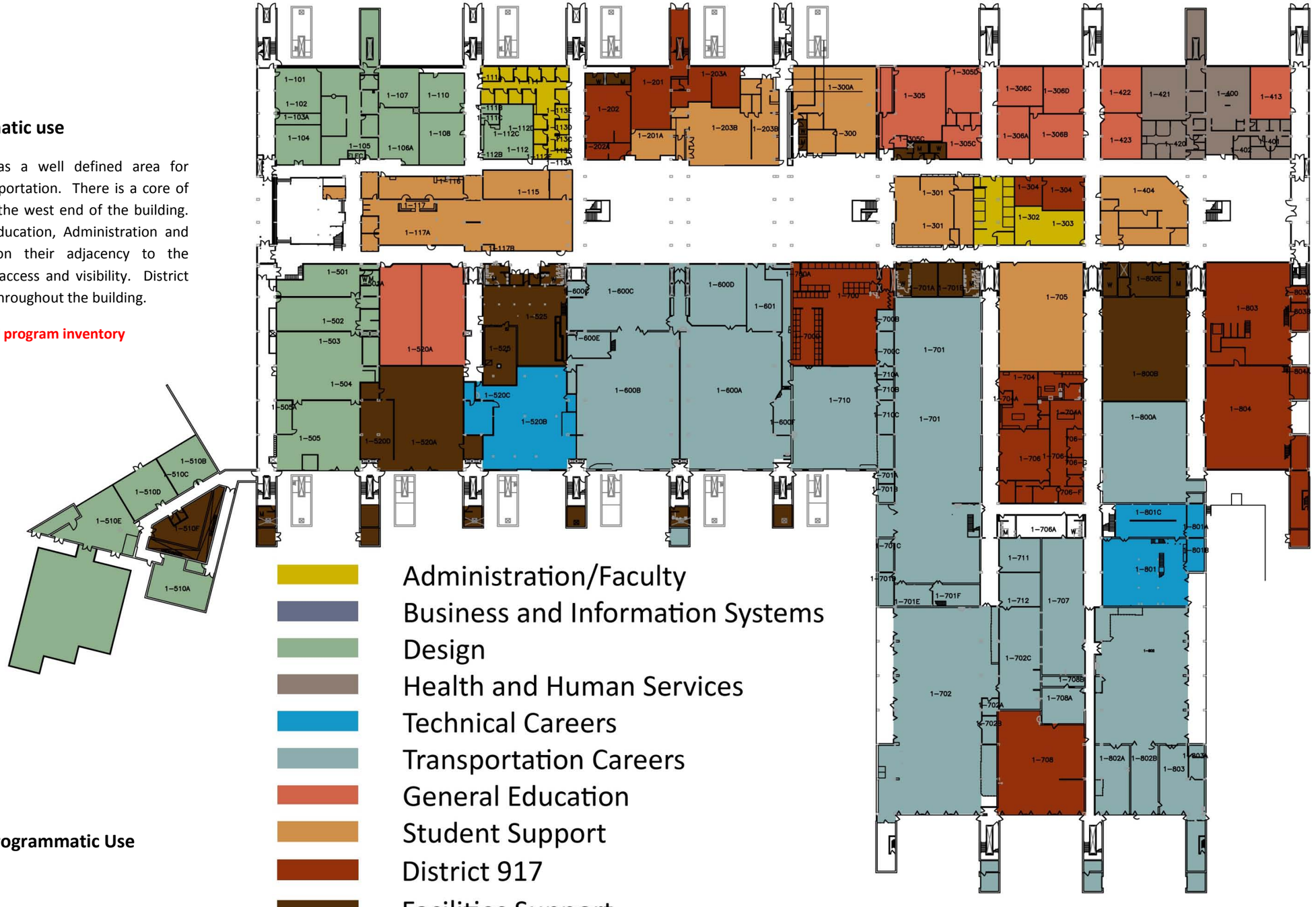



2-400

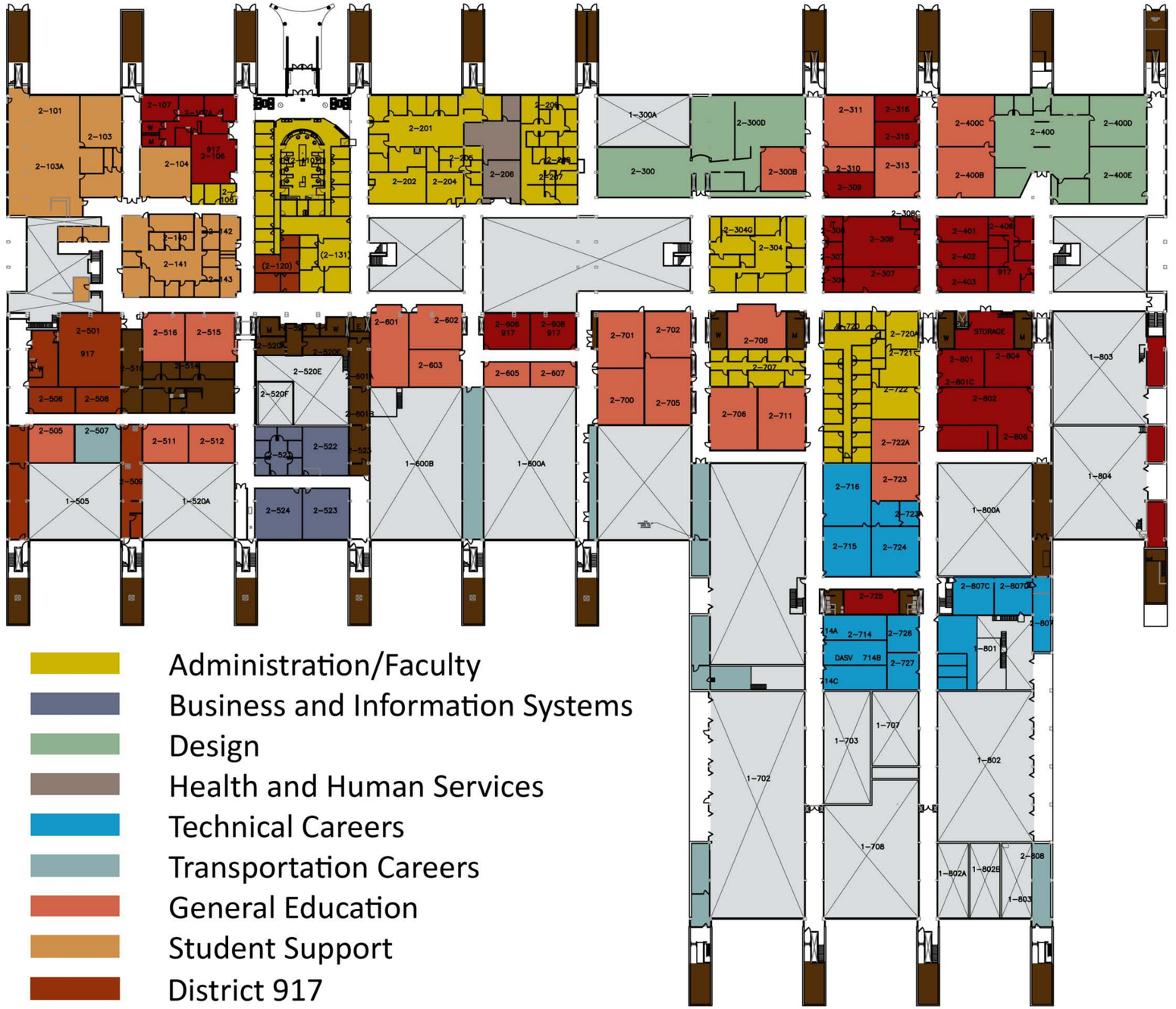
3.2 Existing Programmatic use

The Rosemount Campus has a well defined area for programs dedicated to transportation. There is a core of design related programs on the west end of the building. Student Support, General Education, Administration and Academic programs rely on their adjacency to the east/west public spaces for access and visibility. District 917 programs are scattered throughout the building.

See appendix tab two for full program inventory



Lower Level Existing Programmatic Use



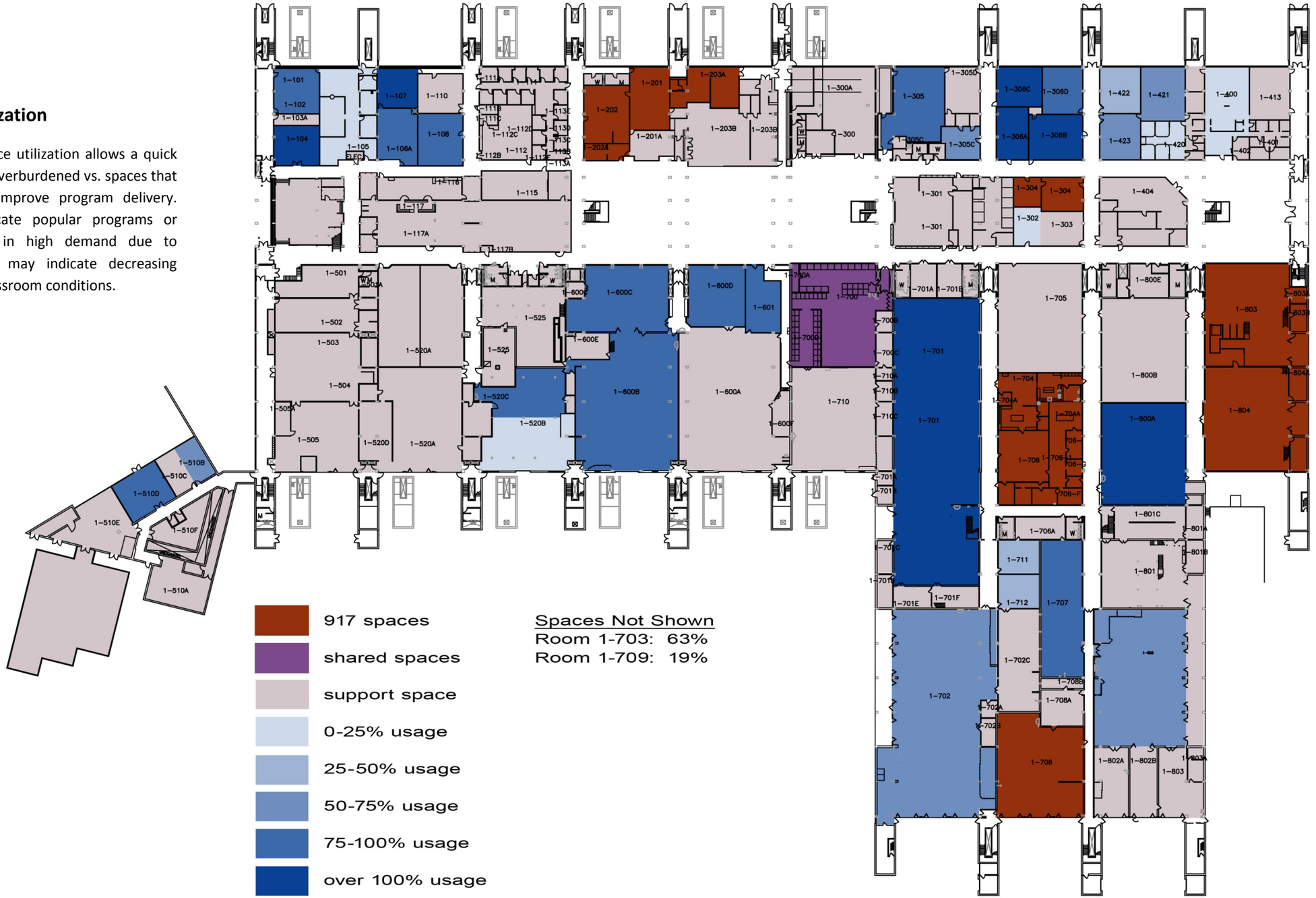
- Administration/Faculty
- Business and Information Systems
- Design
- Health and Human Services
- Technical Careers
- Transportation Careers
- General Education
- Student Support
- District 917
- Facilities Support

Upper Level Existing Programmatic Use

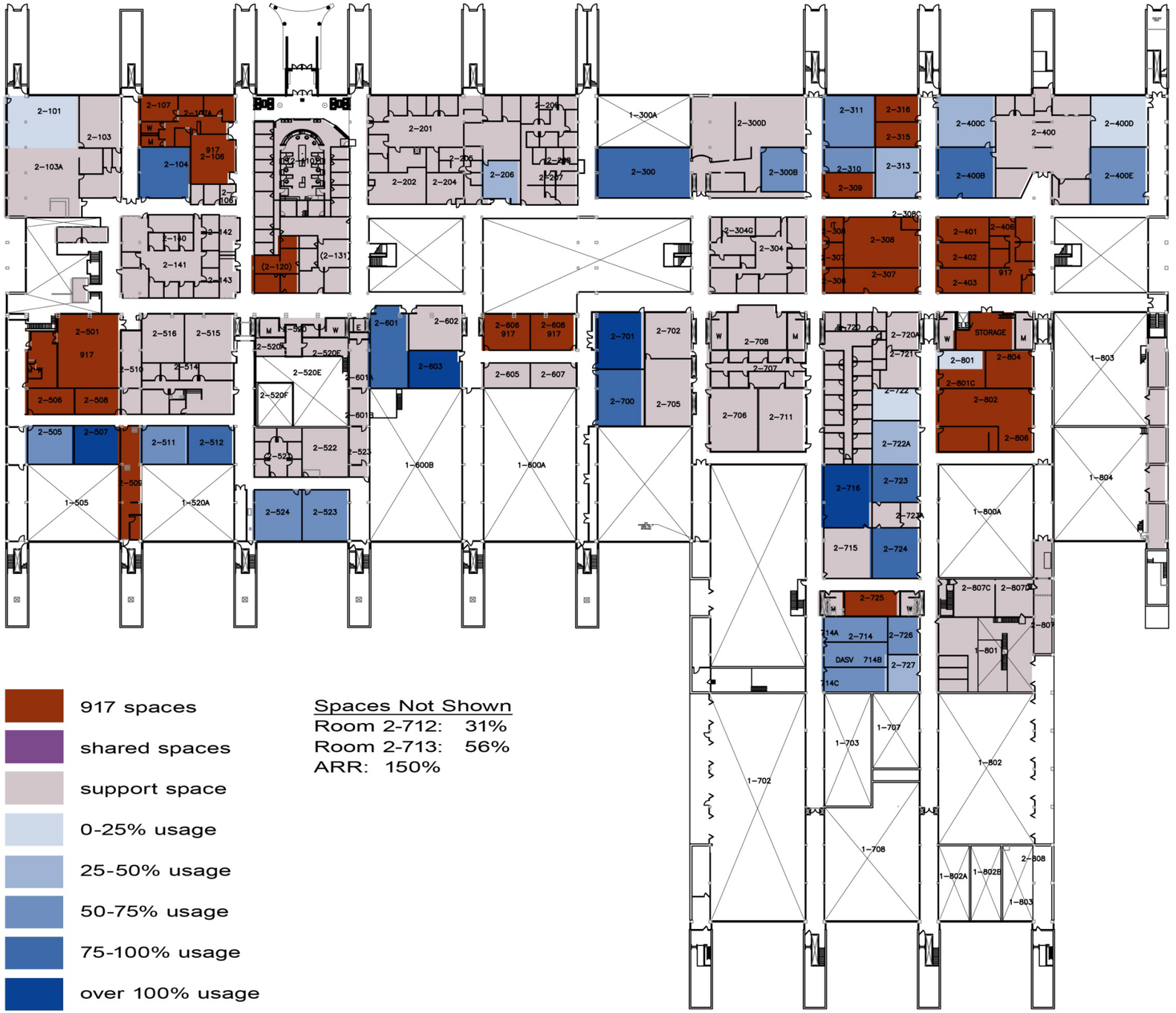
3.3 Existing Space Utilization

The graphic indication of space utilization allows a quick analysis of which spaces are overburdened vs. spaces that have capacity available to improve program delivery. Higher utilization may indicate popular programs or excellent instruction space in high demand due to amenities. Low utilization may indicate decreasing enrollment or unfavorable classroom conditions.

See Appendix Tab One



Lower Level Utilization



917 spaces

shared spaces

support space

0-25% usage

25-50% usage

50-75% usage

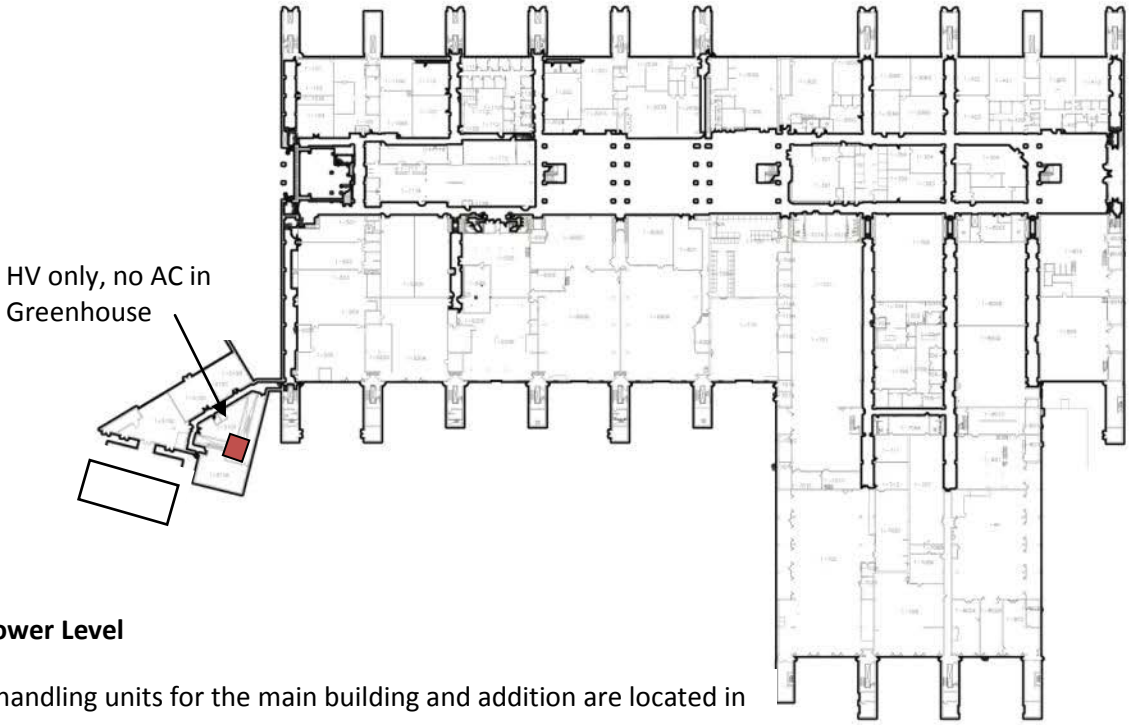
75-100% usage

over 100% usage

Spaces Not Shown
Room 2-712: 31%
Room 2-713: 56%
ARR: 150%

Upper Level Utilization

3.4 Existing HVAC Systems



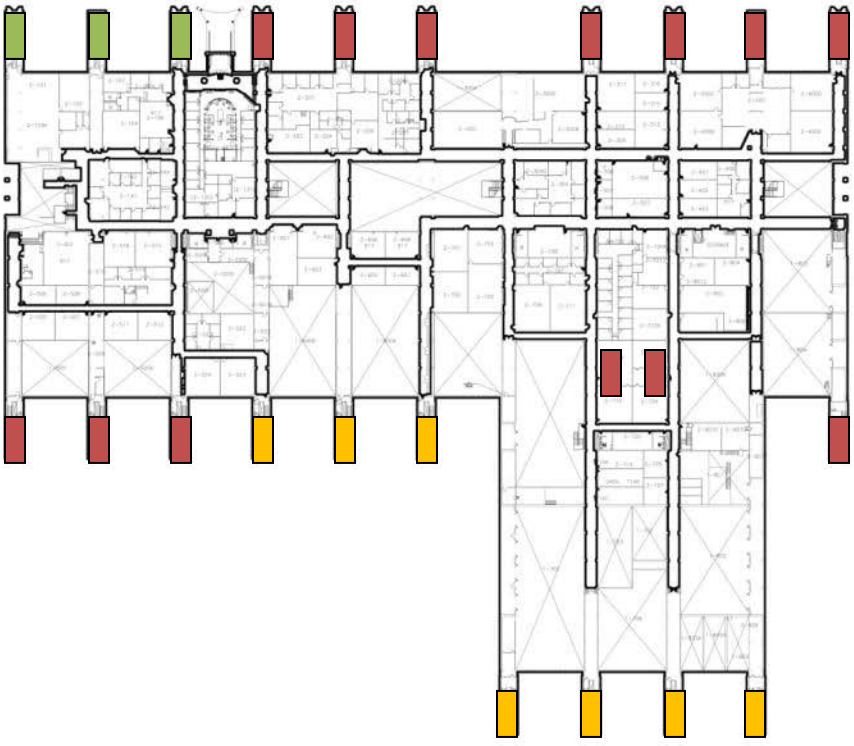
Lower Level

The air handling units for the main building and addition are located in the pods visible on the exterior of the building. Each pod contains 2 air handling units, a system of replacing these units is in place.

new HVAC units

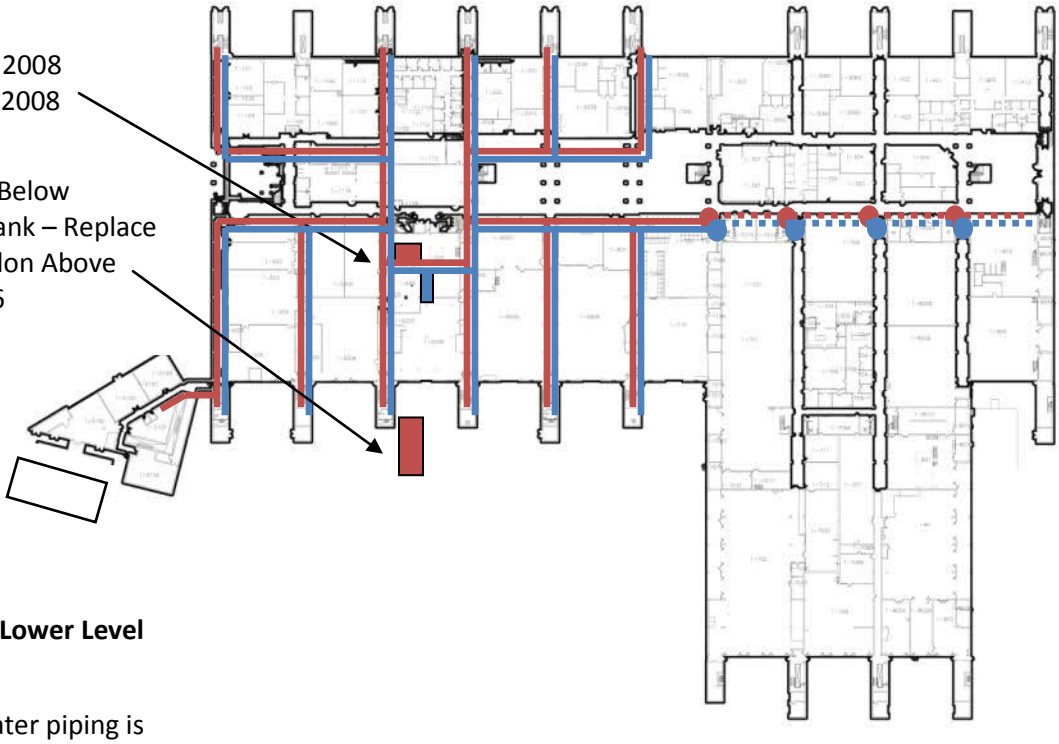
Scheduled for replacement in 2012 transprotation and emerging technologies

Require replacement within 10-15 years



Upper Level

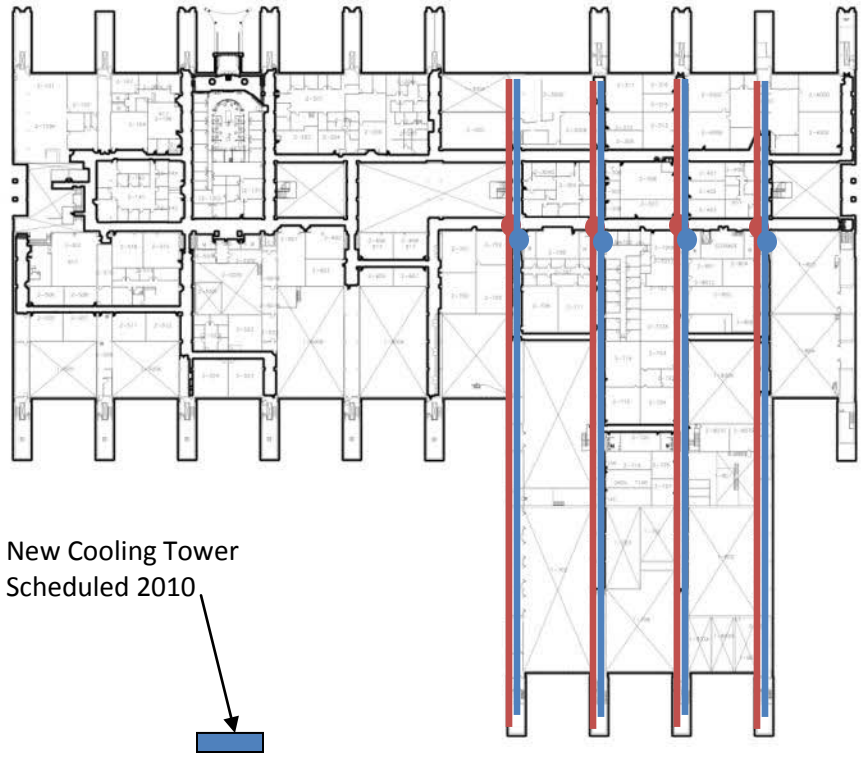
3.5 Existing Piping Systems



Lower Level

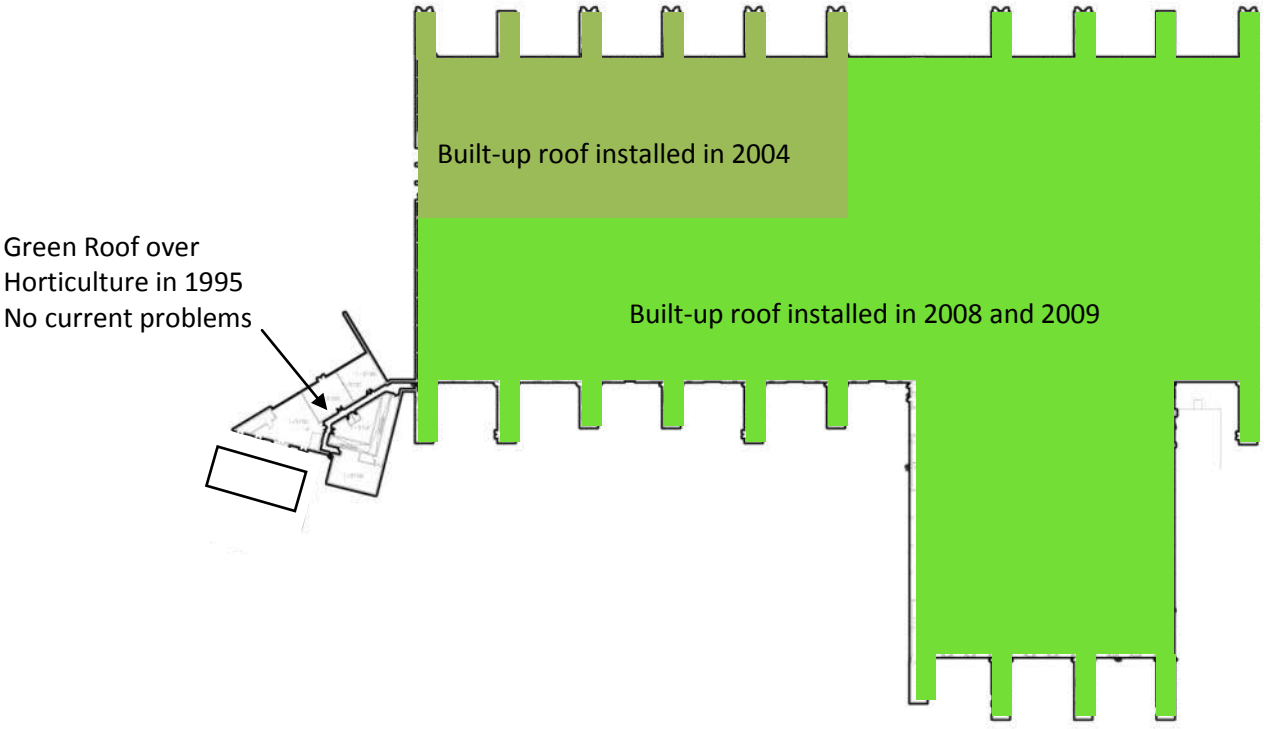
Existing hot water piping is in good condition with an expected life span through 2025. The chilled water lines have vitriolic connections and require constant maintenance as seals loosen with age.

Domestic Water Systems
The existing domestic water system is ageing with constant maintenance required on worn fittings and galvanized piping.



Upper Level

3.6 Roofing



Roofing at the Rosemount Campus is in excellent condition. Roofing at the main building and addition has been recently installed in compliance with MnSCU roofing standards.

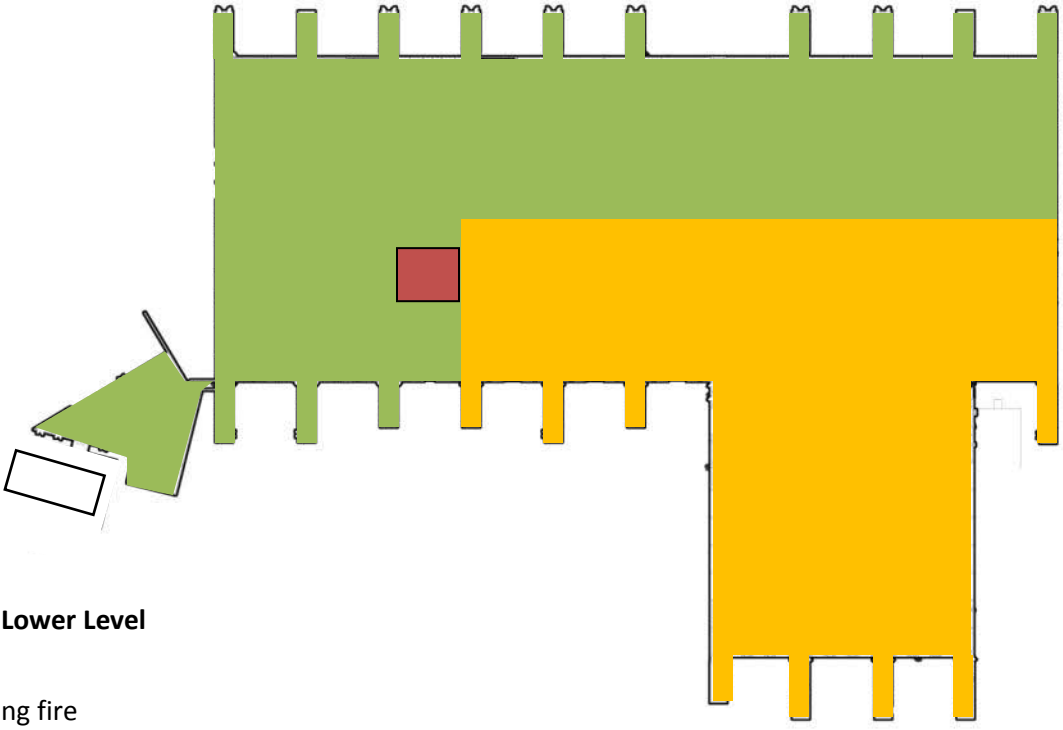
The Green Roof over the horticulture building shows no indication of leakage or deterioration after 15 years.

The roof of the Truck Driving building is being replaced with a built-up roof in 2010.

The roof of the Chrysler Shops building north of CR. 42 is an aging EPDM membrane roof that will need replacing within 5 years.

The roof of the North Campus building in St. Paul shows no current problems however the age of the roof at 20 years indicated replacement may be necessary in the next 5 years.

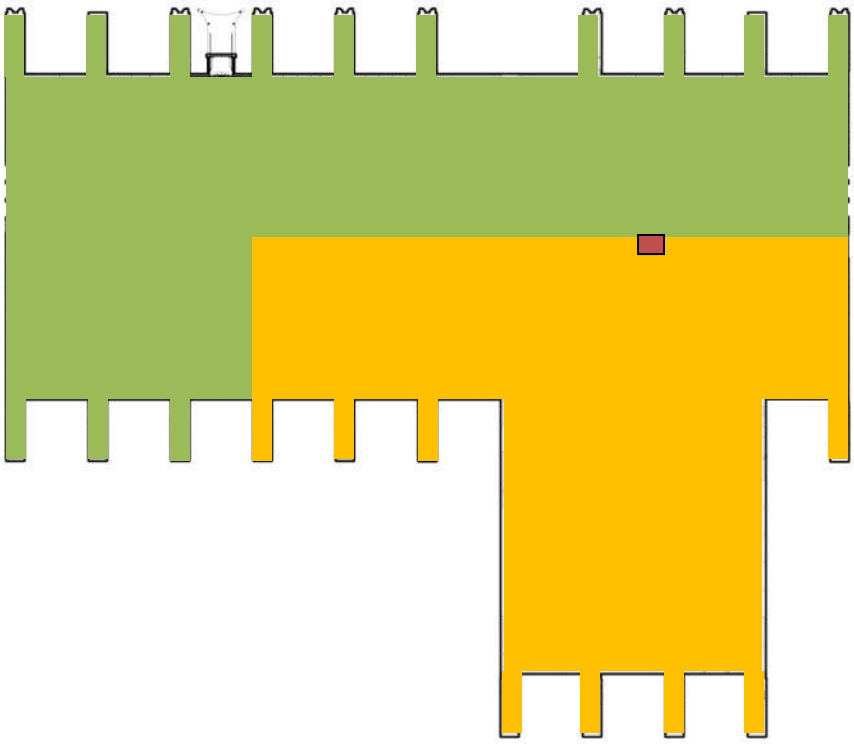
3.7 Existing sprinkler systems



Lower Level

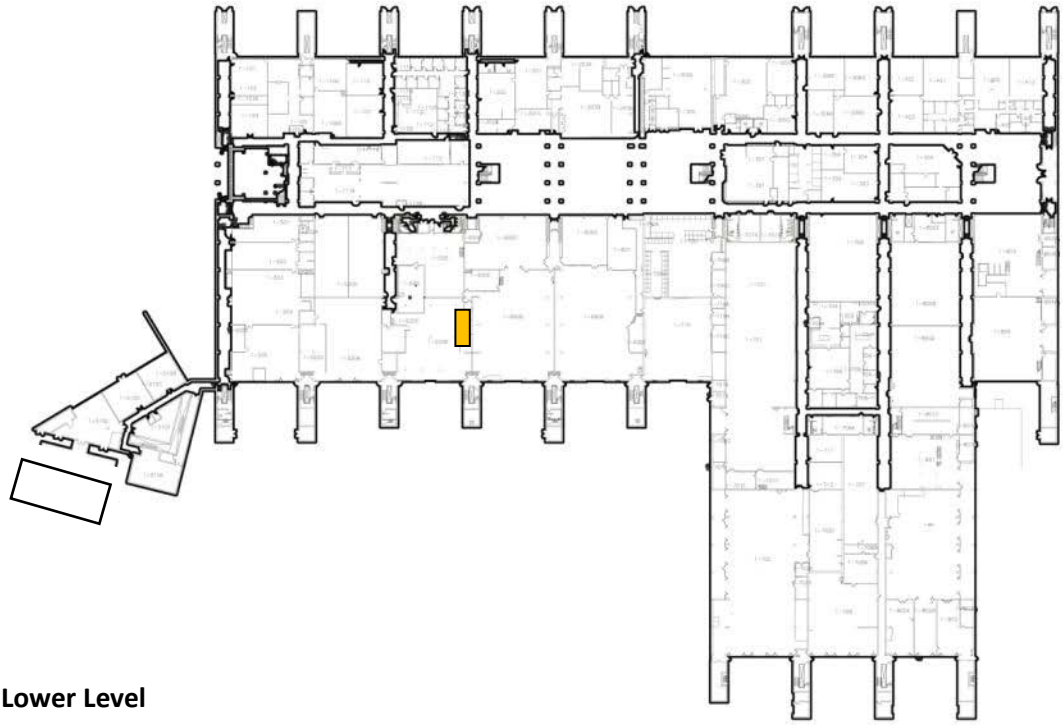
The existing fire protection systems throughout the facility were installed between 2004 and 2008

- Light Hazard
- Ordinary Hazard
- 270 degree heads in boiler room and Self contained system with CO2 sensor in IT server room



Upper Level

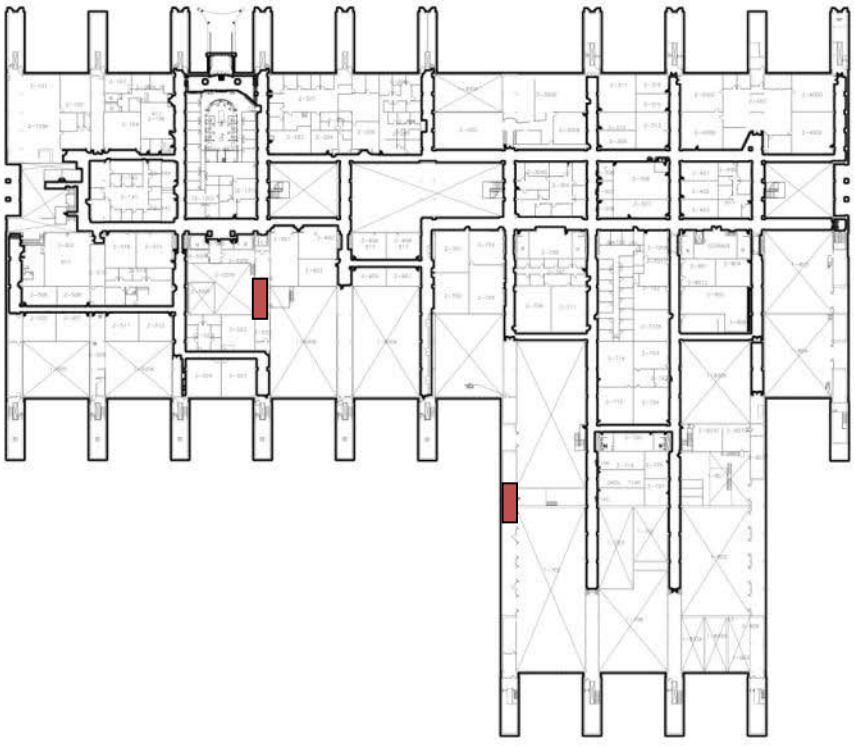
3.8 Existing Electrical Systems



Lower Level

Electrical Panels and switchgear are aging. Replacement has started and is likely to continue over the next several years.

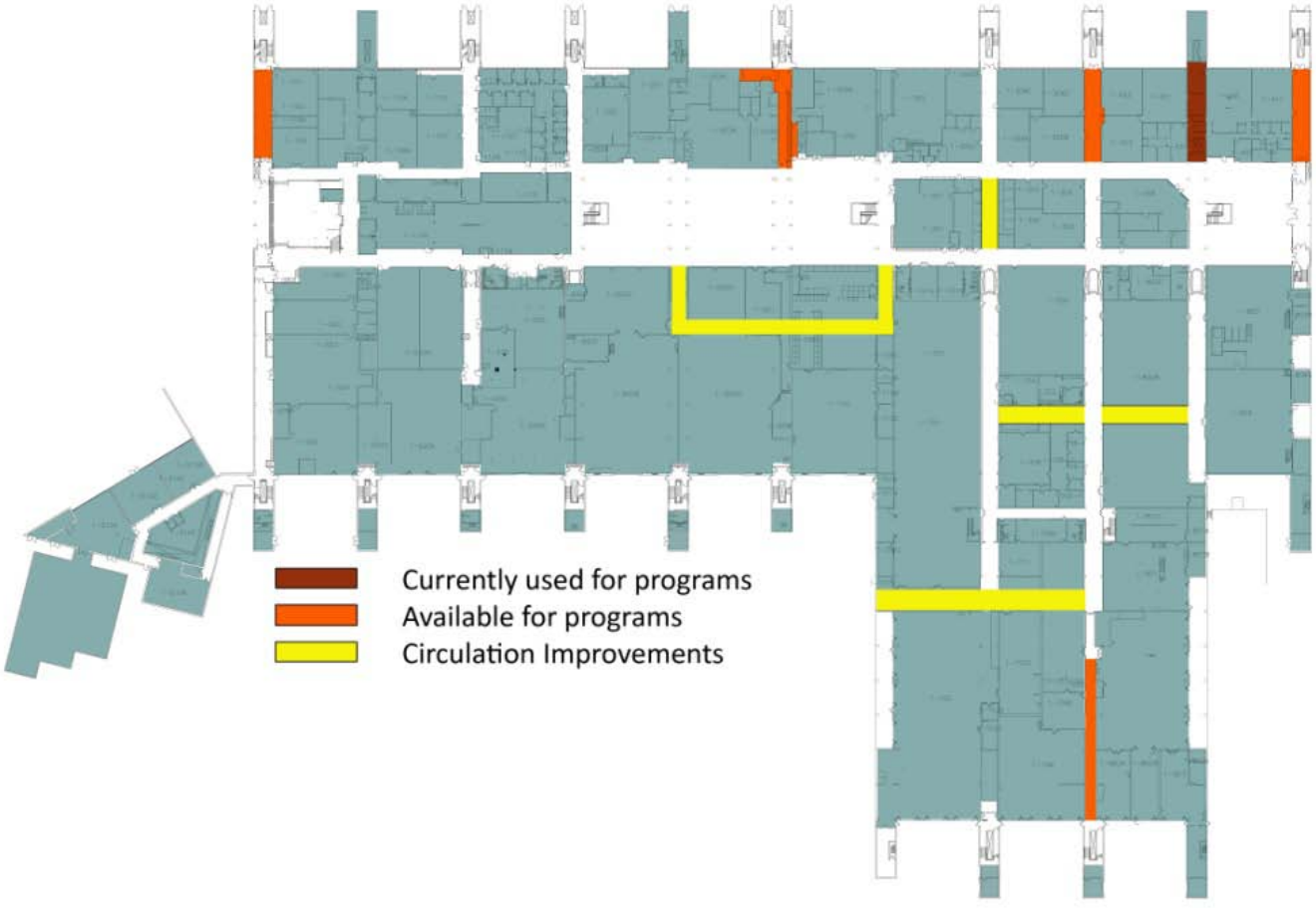
- New Switchgear and main substation 2008
- Scheduled for replacement in 2016
- Scheduled for replacement in 2012



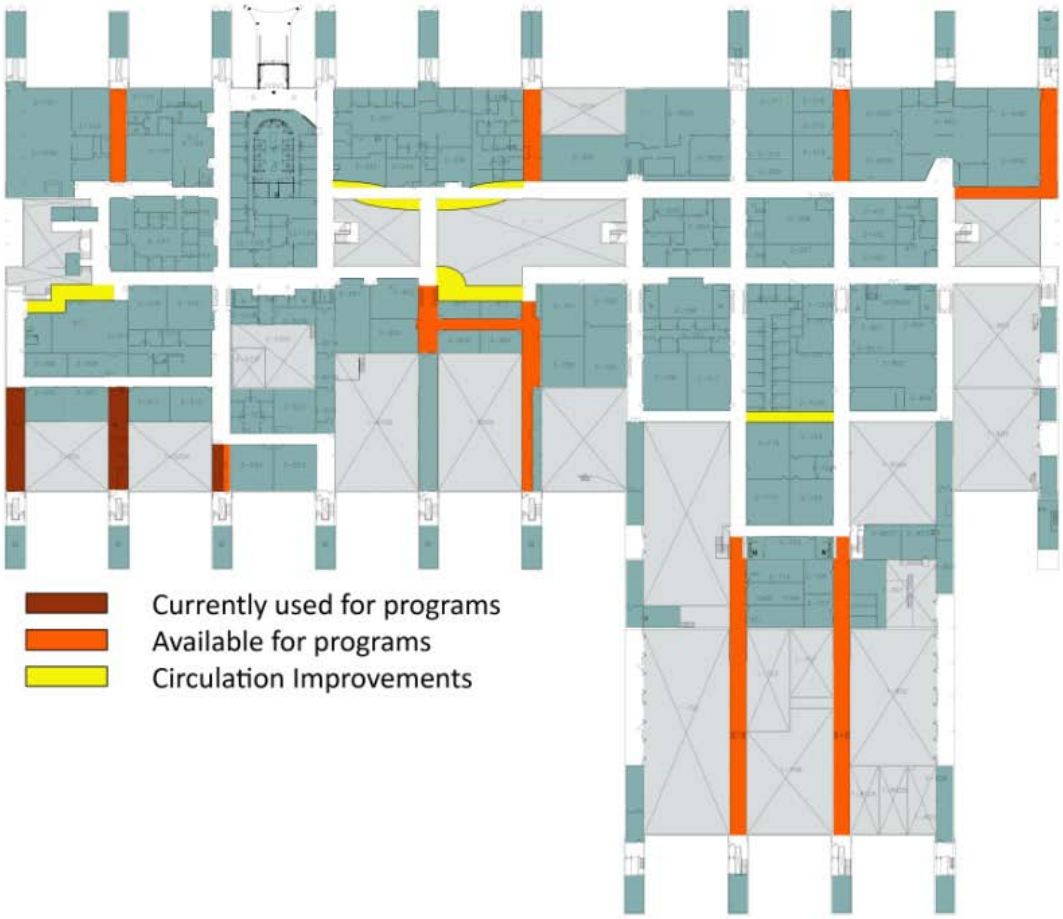
Upper Level

3.9 Existing Circulation Analysis

A central spine of circulation connecting the west, central and east commons areas creates a main street concept. The grid of circulation in the east addition is sometimes confusing without connections while several back corridors do not link back to the main street. Many corridors might be used for increased program square footage following the completion of the sprinkling and the change of codes to the International Building Code.

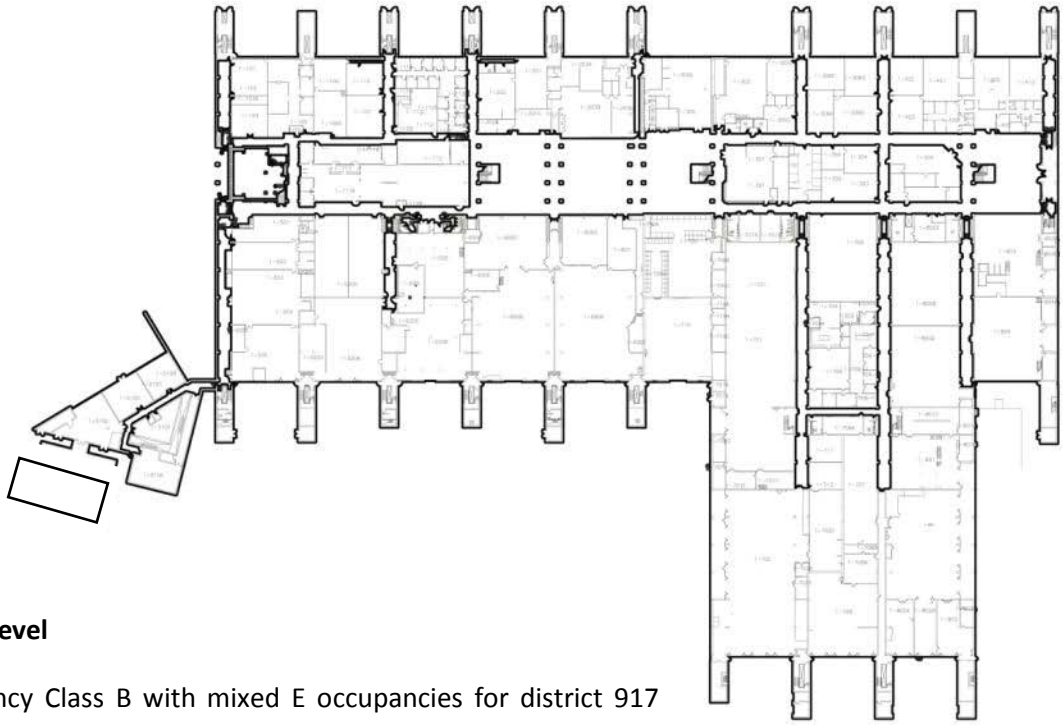


Lower Level Circulation



Upper Level Circulation

3.10 Exiting and Fire Separation

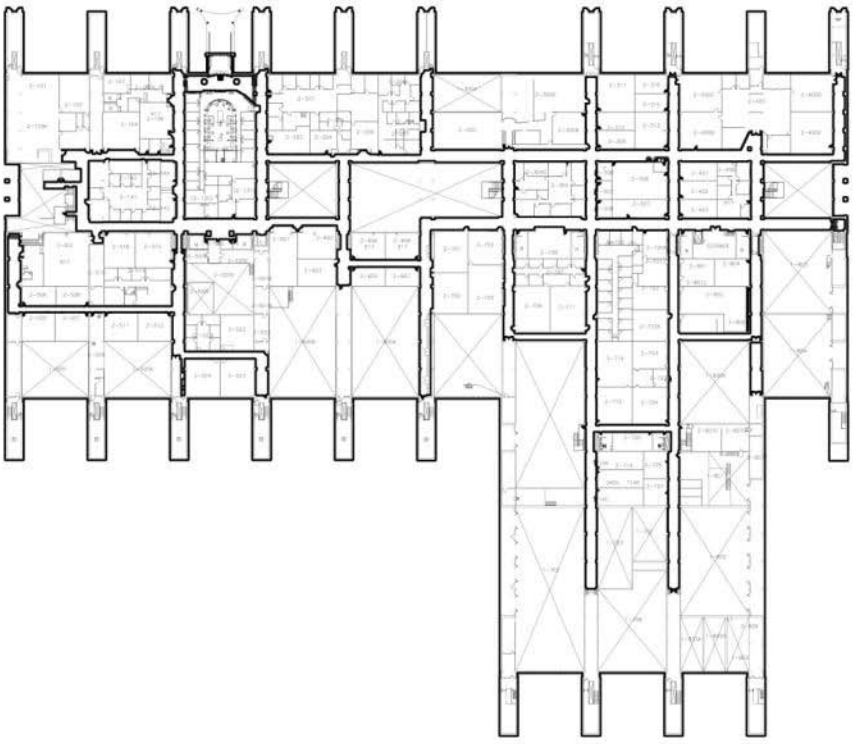


Lower Level

Occupancy Class B with mixed E occupancies for district 917 currently designated as an incidental use.

Constructed of cast-in-place concrete frame and exterior walls with precast T floor and roof slabs. Currently designated as Type 1-A construction.

Corridors and Stairs are not rated

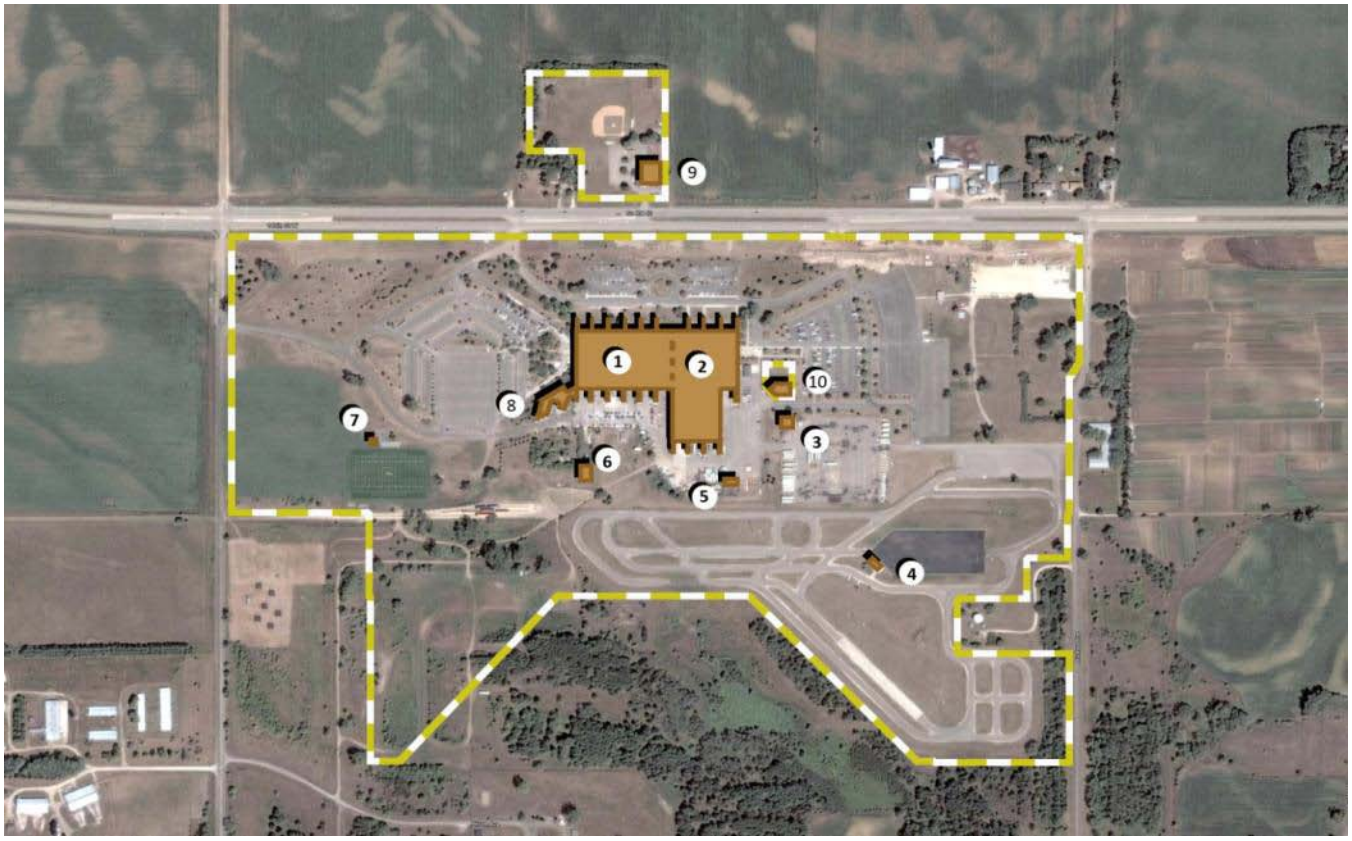


A code review plan will be developed for the transportation and emerging trades renovation.
Information from that review should be incorporated onto this page when complete.

Upper Level

3.11 Facility Condition Index (FCI)

A significant effort on reducing the backlog of repair and maintenance during the past several funding cycles has resulted in a facility that is extremely well maintained. Roofing throughout the structure is recent, sprinkler systems have been installed and HVAC systems are currently in the final stages of upgrades.



			GSF	CRV (000's)	Backlog (000's)	FCI
1.	Main Building		194,350	$52,667	$13,079	0.25
2.	Addition		305,200	$78,910	$21,103	0.27
3.	Truck Driving Facility		6,134	$1,586	$496	0.31
4.	Driving Range Maintenance Shed		2,307	$222	$0	0.00
5.	Lineman Shed		1,300	$125	$65	0.08
6.	Maintenance Shed and Storage		1,500	$250	$0	0.00
7.	Pump House		120	$50	$0	0.00
8.	Greenhouse		2,500	$902	$0	0.00
9.	Chrysler Academy		8,180	$1,640	$723	0.44
10.	District 917 animal holding (not owned)		2500	$250	$250	1.00
11.	Cooling tower structure		900	$135	$0	0.00
12.	Radio Tower/Satelite		260	$39	$11	0.28
13.	Tunnels		3,900	$375	$2	0.01
14.	Pod Buildouts – main building		700	$105	$0	0.00

1 - Main Building

Building Summary:

Building Number:	**211TO171**
Gross Square Feet:	**194,350**
Year Built:	**1971**
FCI:	**0.25**
CRV	**$52,667,000**
Backlog	**$16,597,000**

Items of Note: The exterior envelope of the building is in excellent condition with recent tuckpointing, window replacement and roofing. Remaining backlog involves HVAC systems and plumbing.

Current Uses:

The main building houses the newly renovated library, College Administration, Computer Center, District 917 administration and programs, Design programs, Wood finishing, Masonry, Technical and Transportation programs.

Short Term Recommendations:

Transportation and Emerging Trades renovation will address necessary improvements to the central commons area and functional improvements in the transportation programs.

Mid Term Recommendations:

The master plan outlines a phased approach to consolidating District 917 programs and renovating the vacated space into design programs. This will include renovations for Sustainable design studies, consolidating existing programs, and administrative support programs within the main building.

Long Term Recommendations:

As the sustainable design studies programs evolve and enrollment increases, the master plan outlines locations for additions for design programs and general purpose classrooms.

2 - Main Building - Addition

Building Summary:

Building Number:	**211TO378**
Gross Square Feet:	**305,200**
Year Built:	**1978**
FCI:	**0.27**
CRV	**$78,910,000**
Backlog	**$21,103,000**

Items of Note: The exterior envelope of the building is in excellent condition with recent tuckpointing, window replacement and roofing. Remaining backlog involves HVAC systems and plumbing.

Current Uses:

The main building addition houses classrooms and faculty support, transportation trades, district 917 transportation, health programs, interior design, nano-technology and science.

Short Term Recommendations:

Transportation and Emerging Trades renovation will address necessary improvements to the central commons area and functional improvements in the transportation programs.

Mid Term Recommendations:

The master plan outlines a phased approach to consolidating District 917 programs and renovating the vacated space into design programs. This will include renovations for Medical and Dental Assisting. As the associates degree programs grow, a technical sciences addition and innovative programs renovation will be required.

Long Term Recommendations:

A student center addition and renovation is proposed that will put the DCTC student services and support on par with similar MnSCU institutions.

3 - Truck Driving Facility

Building Summary:

Building Number:	**211TO484**
Gross Square Feet:	**6,134**
Year Built:	**1984**
FCI:	**0.31**
CRV	**$1,586,000**
Backlog	**$640,000**

Items of Note: The exterior envelope of the building is in good condition with recent roofing. Remaining backlog involves windows, HVAC systems and plumbing. The interior spaces are worn and outdated.

Current Uses:

The main building addition houses classrooms and faculty supporting the truck driver training programs.

Short Term Recommendations:

The nature of the building isolates the truck driving program from the transportation technologies programs and does not properly supervise the decision driving range. The master plan proposes to renovate this building for transportation related continuing education programs that are now located within the Chrysler shops building.

Mid and Long Term Recommendations:

Upon completion of the proposed transportation partnerships building, this building will be useful as flexible space to support small business incubator programs or new programs that are yet to be defined.

4 – Driving Range Maintenance Shed

Building Summary:

Building Number:	**211T1098**
Gross Square Feet:	**2,307**
Year Built:	**1998**
FCI:	**0.00**
CRV	**$222,000**
Backlog	**$1,000**

Items of Note: The exterior envelope of the building is in good condition but constructed with less permanent metal building structure. Interior finishes will need upgrades as wear and tear of storage and maintenance functions degrade the drywall finishes.

Current Uses:

Maintenance equipment and vehicles for the decision driving range.

Short Term Recommendations:

This building is functioning well for its intended purpose. The master plan recommends no changes to the building or functions.

Mid and Long Term Recommendations:

Replace fuel pumps at this location.

5 – Lineman Shed and Fueling Station

Building Summary:

Building Number:	**211T1178**
Gross Square Feet:	**1300**
Year Built:	**1978**
FCI:	**0.08**
CRV	**$125,000**
Backlog	**$65,000**

Items of Note: The exterior envelope of the building was replaced in 2010, including metal siding and metal roof.

Current Uses:

Maintenance equipment and vehicles for the electric lineman training programs.

Short Term Recommendations:

Upgrading fuel pumps and painting exterior tanks.

Mid and Long Term Recommendations:

The master plan outlines a new vehicular circulation path south of the main building that will allow better vehicle access to the lineman training course. The nature of the structural system for this building makes it possible to consider relocating the structure closer to the lineman training course.

6 – Maintenance Shed and Storage

Building Summary:

Building Number:	**New structure, not assigned**
Gross Square Feet:	**1500**
Year Built:	**2009**
FCI:	**0.00**
CRV	**$250,000**
Backlog	**$0**

Items of Note: The structure is new and provides necessary storage space for campus maintenance equipment and vehicles.

Current Uses:

Maintenance equipment and vehicles for the campus.

Short, Mid and Long Term Recommendations:

This building is functioning well for its intended purpose. The master plan recommends no changes to the building or functions.

7 – Pump house

Building Summary:

Building Number:	**New structure, not assigned**
Gross Square Feet:	**120**
Year Built:	**2009**
FCI:	**0.00**
CRV	**$50,000**
Backlog	**$0**

Items of Note: The structure is new and provides necessary protection of irrigation equipment.

Current Uses:

Pump house structure for irrigation.

Short, Mid and Long Term Recommendations:

This building is functioning well for its intended purpose. The master plan recommends no changes to the building or functions.

8 – Greenhouse

Building Summary:

Building Number:	**211TO400**
Gross Square Feet:	**2,500**
Year Built:	**2007**
FCI:	**0.00**
CRV	**$902,000**
Backlog	**$18,000**

Items of Note: The structure is in good repair and functions well for the intended use.

Current Uses:

Green house structure supports landscape and horticulture programs.

Short Term Recommendations:

The roof is scheduled for replacement in 2015.

Mid and Long Term Recommendations:

This building is functioning well for its intended purpose. The master plan recommends no changes to the building or functions.

9 – Chrysler Academy

Building Summary:

Building Number:	**211TO587**
Gross Square Feet:	**8,180**
Year Built:	**1987**
FCI:	**0.44 (revised to match CRV below)**
CRV	**$1,630,000 (from 2007 market study)**
Backlog	**$723,000**

Items of Note: The structure is in need of roofing, tuckpointing and masonry repair, window and door replacement, HVAC systems replacement and electrical systems upgrades.

Current Uses:

The Chrysler Academy School of Technical Training at Dakota County Technical College trained over 1,800 Chrysler automotive technicians in the past year.

Short Term Recommendations:

Chrysler has recently signed a five year contract extension. This will require minor renovations to the existing structure and roof repair or replacement.

Mid and Long Term Recommendations:

This building is isolated from the main campus and other transportation programs. The building is also in need of significant maintenance. The master plan recommends selling the structure prior to investing significant funds in the building. This allows the college to further develop this successful program in a location that builds upon the transportation technologies adjacencies and provides safe access to the program for both pedestrians and vehicles.

10 – District 917 Building (for reference only, not owned by DCTC)

Building Summary:

Building Number:	**Owned by District 917**
Gross Square Feet:	**2,500**
Year Built:	**1984**
FCI:	**1.00**
CRV	**$250,000**
Backlog	**$250,000**

Items of Note: The structure is worn and outdated. The structure is in need of roofing, tuckpointing and masonry repair, window and door replacement, HVAC systems replacement and electrical systems upgrades.

Current Uses:

District 917 has used this building for a variety of purposes including childcare and animal housing for animal science programs. It is currently used for storage.

Short Term Recommendations:

The ownership of the building and land is an island within the Dakota County Technical College campus. The poor condition of the building, combined with a location that can have a better use for college expansion makes this property a prime target for acquisition.

Mid and Long Term Recommendations:

Following acquisition, the college must determine the potential for integrating this structure into additions to the main building prior to investing in maintenance and renovations. The college may consider demolition upon acquisition as a valid approach to this property.

11 – Cooling Tower (prior to 2010 replacement)

Building Summary:

Building Number:	**211TO771**
Gross Square Feet:	**900**
Year Built:	**1971**
FCI:	**4.80**
CRV	**$135,000**
Backlog	**$649,000**

Items of Note: The structure is being replaced in 2010.

Current Uses:

Cooling tower serves Main Building and Main Building Addition.

Short, Mid and Long Term Recommendations:

This cooling tower will be new in 2010. The master plan recommends no changes to the building or functions.

12 – Radio Tower / Satellite

Building Summary:

Building Number:	**211T1474**
Gross Square Feet:	**260**
Year Built:	**1974**
FCI:	**.28**
CRV	**$39,000**
Backlog	**$11,000**

Current Uses:

The building serves as a control and head-end center for radio and satellite systems. Public/private partnerships support this building through leasing of land for satellite dishes and antenna.

Short Term Recommendations:

The structure is in need of paint and shingles.

Mid and Long Term Recommendations:

This building is functioning well for its intended purpose. The future of this building will be determined by the status of leased radio and satellite towers.

13 – South St. Paul

Building Summary:

Building Number:	**211T0673**
Gross Square Feet:	**360**
Year Built:	**1973**
FCI:	**.02 – recalculated based upon crv below**
CRV	**$525,000 2009 appraised value with land**
Backlog	**$11,000**

Current Uses:

The building serves as a storage facility.

Short Term Recommendations:

Continue use as storage facility.

Mid and Long Term Recommendations:

The college will continue to search for a suitable buyer for this property.

3.12 Building Standards

In addition to the MnSCU design guidelines, systems at DCTC have preferences that coordinate service and maintenance issues to the same vendor for all similar items on campus. Future projects should be designed around the following standards:

Division 3 – Cast in Place Concrete

- All rebar shall be epoxy coated
- All sidewalks are 6" slabs
- Use recycled concrete base under slabs
- DCTC offers an AAS degree and diploma in Concrete and Masonry, review projects including concrete and masonry with faculty to coordinate academic opportunities with real-world applied projects.

Division 8 – Openings

- Door standard is flat sawn light oak with 96 square inch vision light
- Hollow Metal frames painted black
- Sergeant locksets with Best 1E series 7 pin cylinders

Division 9 – Finishes

- DCTC Cream – paint is available at Sherwin Williams
- Acoustic Panel Ceilings 2'x2' USG ClimaPlus with tegular edge (not mandatory)

Division 11 – Equipment

- Kewaunee Scientific Fume Hoods

Division 14 – Elevators

- Tyson

Division 22 and 23 – Mechanical

- All valves are ball valves
- No vitriolic couplings
- All valves over 3" shall be Mueller Lineseal Butterfly valves
- Small motors by Toshiba
- Toilet fixtures by Sloan
- DDC by Automated Logic

Division 26 – Electrical

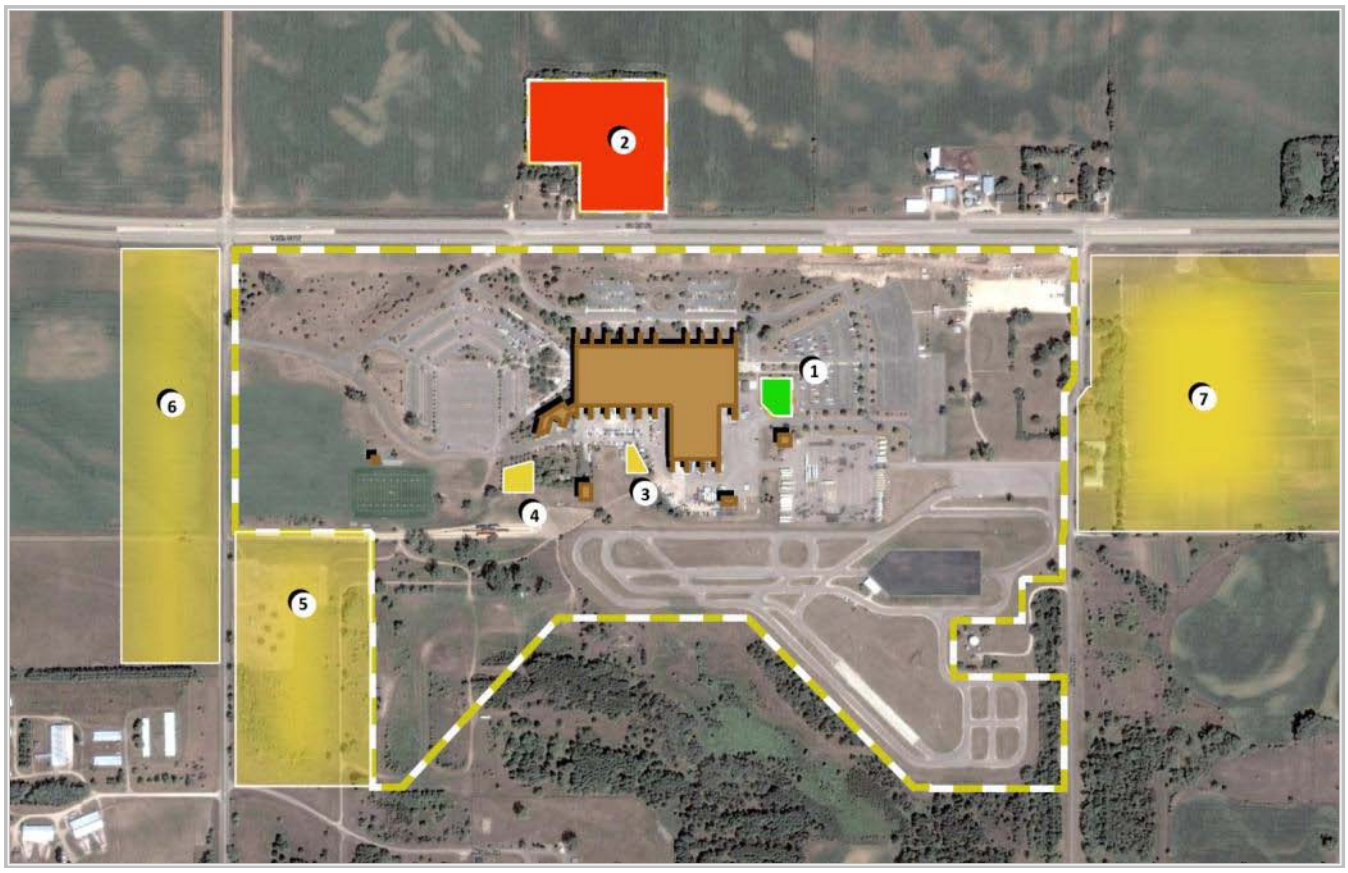
- Square D panels and transformers
- Stainless Steel switchplates with grey devices
- Fire Alarm system by Notifier

Division 32 – Sitework

- Toro Lawn Irrigation

4.1 Land Management

The recent purchase of land that currently holds the decision driving training course and the lineman training course from the University of Minnesota is the first major step toward matching the campus mission with owned and adjacent land.



1. Acquire ½ acre parcel from District 917: Mid Term Project

This parcel contains a building in poor repair. District 917 has tried numerous programs in this building but has not found an appropriate fit. The acquisition of this parcel is necessary for the main campus building to expand in a manner that is efficient and appropriate to the existing building context.

- An appraisal for the property has not yet been performed
- Upon acquisition, the college should look at various options including the incorporation of the existing concrete structure into any new construction. Existing HVAC, electrical and interior finishes will need complete replacement.
- Expansion opportunities that extend into this site include options for health and wellness or new and emerging technologies.

2. Sell 8 acres north of CR 42: Mid Term Project

This parcel currently contains the Chrysler training center building and a baseball diamond. The Chrysler training center building is in need of significant repair including masonry repairs, windows, doors and roofing. The baseball diamond outfield is not graded appropriately for practice or competition.

Continued investment in this property is likely to lead to future development and campus circulation conditions that call for pedestrian bridges or skyways across CR 42 similar to other MnSCU campuses that span major vehicle circulation routes.

- 2007 appraised value of $1,636,548
- Possible option to pursue a land swap with District 917
- The target buyer for the property should be a commercial hotel or retail that helps DCTC build upon their mission. Currently few conferences are held at DCTC due to a shortage of adjacent housing for continuing education and short term full time students that addend the college.
- The DCTC vision for transportation programs envisions shared facilities and extended partnerships between the Chrysler Center, the GM training Center, District 917 automotive programs and DCTC automotive programs. Ninety percent of these programs are already consolidated around the south service area of the main campus.
- The master plan outlines a replacement structure that shares the outdoor vehicle support areas, offers access during non-traditional hours and direct access to the decision driving course for road testing programs.

3. Land currently leased to communications companies:

This use is compatible with facilities and academic plans; continued or additional leases will develop partnerships with private industry.

4. Parcel dedicated to Wind Energy Research: **Short Term Project**

This location is ideal in elevation and orientation to open lands. Partnership with the University of Minnesota plans for wind turbines will be explored.

- Directly adjacent to the college, within ½ mile, the University of Minnesota's UMore Park in Rosemount is getting a new focal point: a 2.5 megawatt wind turbine made by Clipper Windpower Inc. slated for completion in December of this year. Sponsored by the Minnesota Wind Energy Research Consortium, the initiative is one of several academia- and industry-led movements working to move the U.S. closer to the DOE's goal of achieving 20 percent wind power by 2030. The college's programs in wind power technician will partner with the University of Minnesota to optimize both research and training of technicians for this emerging technology.
- This parcel is ideal for residential scale wind turbines. These turbines should incorporate systems of electrical grid integration and independent power of DCTC outbuildings.
- DCTC Energy Technical Specialist programs will utilize these wind turbines for maintenance training. Performance data from the wind turbines may be incorporated into many different curriculum components.

5. Athletic Fields: Mid Term Project
A Land management issue on property adjacent to the DCTC campus.

The city of Rosemount is currently in discussion with the UMore Park LLC regarding Athletic field development. These discussions are complex, involving parkland dedication for development and are likely to reach an agreement in 2011 or later. Athletic programming for DCTC suggests that this parcel should be developed as flat fields, softball or tennis with competition baseball located on the DCTC campus.

6. Neighborhood Center (not owned or leased): Long Term Project
A Land management issue on property adjacent to the DCTC campus.

The UMore master plan calls for a neighborhood center to be developed west of the main campus. Prior to the development of the neighborhood center, UMore LLC will be mining gravel for ten to twenty years at this location. DCTC will encourage the development of a vegetated buffer of mixed low deciduous and tall coniferous plantings to screen unsightly views and strain sand and dust from the prevalent winds.

*The **(UMore Park)**plan integrates auto-oriented uses along the major thoroughfares serving the community, including County Road 42 and County Road 46. Larger format retail centers along these routes provide space for businesses including big-box retailers, discount outlets, supermarkets and service facilities that serve the greater area. In addition, these regional retail uses provide for improved transitions between land uses within the new community and adjacent land to the north of County Road 42.*

Along County Road 42, between the Dakota County Technical College and the proposed professional office and wellness complex, an area of primarily big-box retail would generate significant commercial activity for the new community and serve the larger market in Dakota County. Although the consultant team has not undertaken a detailed market investigation of potential retail uses on the property, the projected population of the new community and surrounding developments would likely justify a significant retail program at this location. The sale or lease of retail property along County Road 42 would produce significant revenues for the University and/or its development partner(s) and represent a logical first step in the development of sections of the property over time. Two full-service intersections along County Road 42 (at Blaine Avenue, and at another proposed arterial located to the west) would serve this retail area, providing significant traffic to stimulate commercial activity. Also, one of the three proposed light rail stops in the new community would serve this retail area. The recommended location for retail along County Road 42 includes relatively flat land well suited for parking areas serving big-box tenants.

The plan configures retail buildings to maximize visibility from County Road 42 while minimizing the size of parking lots separating the retail program from the highway. It is recommended that smaller in-line retail tenants line a grid of streets in the proposed retail district to separate the inventory of parking spaces into smaller areas and form a more attractive character and pedestrian scale. The size of the proposed retail complex is similar to the area of big-box retail that helped to drive the initial development of master planned communities similar in size to this new community.

(from the UMore Park Master Plan see appendix tab five)

7. Energy Innovation Center (not owned or leased): Mid Term Project
A Land management issue on property adjacent to the DCTC campus.

The UMore Park development of a sustainable community includes planning for a private industry research and development office park east of the main campus. DCTC will be developing campus plans that support sustainable technologies programs and it is important that the focus on this private research park is maintained as the UMore LLC develops the property.

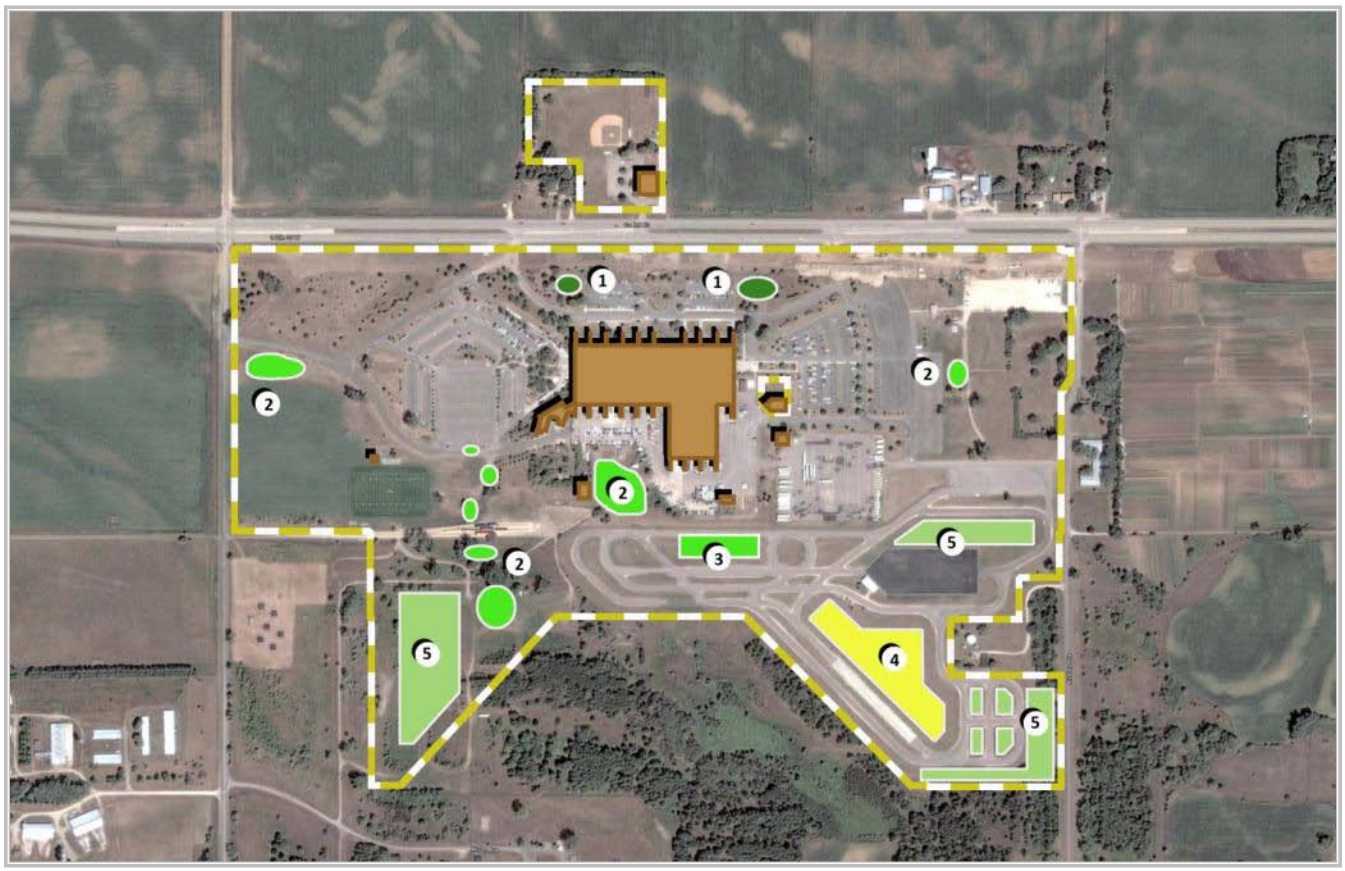
*The **(UMore Park)**Concept Master Plan considers multiple avenues for producing energy onsite. This includes an energy innovation center with a biomass gasification facility that has the potential to provide district heating to two of the three village centers using a minimum of piping and other infrastructure components. The University could leverage the proximity of the energy innovation center to Dakota County Technical College and County Road 42 by creating potential educational opportunities for University and Minnesota State Colleges and Universities (MnSCU) students concerning the development and maintenance of alternative energy systems.*

The energy innovation center could also serve as a research and demonstration focal point, benefitting from University faculty involvement in a variety of renewable energy investigations. This location also allows for the transport of biomass fuels to the facility without routing truck traffic through the heart of the community. Additionally, ground source heat pumps could provide energy to different zones of the residential areas. Demonstration-size wind turbines within the open space surrounding the Eco-Industrial Park and other areas could be used for University research and education, and as a potential source of energy.

(from the UMore Park Master Plan see appendix tab five)

4.2 Sustainable Site Development

Integration of sustainable practice with educational opportunities are well established at DCTC, following through on the Presidents Climate Commitment.



1. **Storm catchment basins** completed in 2009 as part of the MUSA interceptor project. These ponds treat stormwater from the expanded visitor and faculty parking areas.
2. **Proposed Stormwater management** for retention and sediment control from existing and proposed paved areas. These projects will tie in with academic programs in biology, landscaping, construction and horticulture programs. **Short Term Project**
3. **Permeable paving demonstration project:** New parking areas serving auto trades programs may be constructed using several different permeable systems. This project will contribute to curriculum components in Biology, Physics, Landscaping and Concrete technologies. **Mid Term Project**
4. **Solar Technologies** will both help reduce the use of fossil fuels on campus and offer an excellent hands on learning environment for Green Technologies students. **Short Term Project**

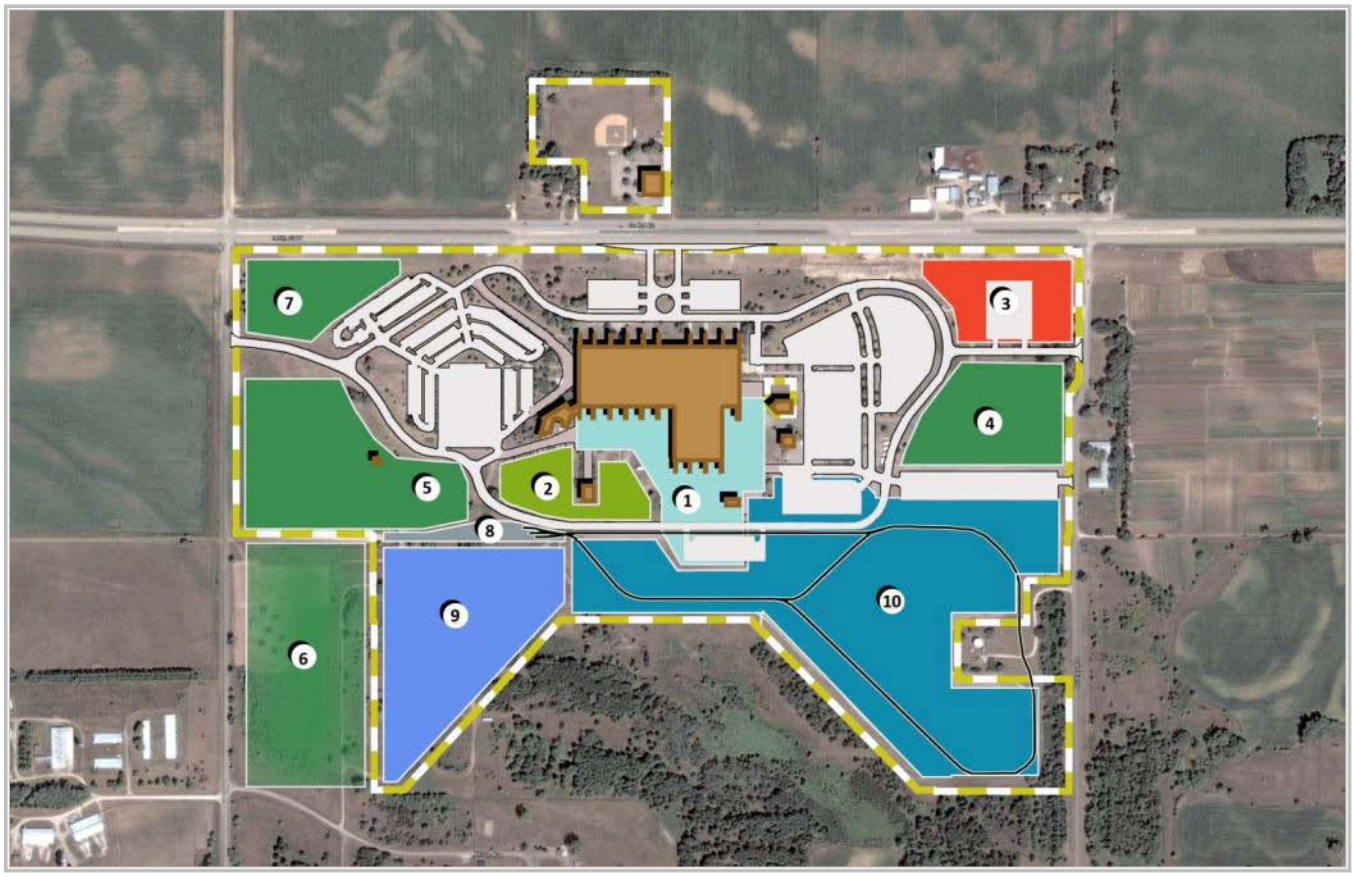
5. **Biofuel research and demonstration plots:** Remote areas and isolated planting beds offer excellent testing sites for invasive and non-invasive plant research. This research will provide linking opportunities between automotive technology students and green technologies students. Demonstration plots such as these will include a variety of plants from annuals to forest species, providing significant carbon offsets for the campus. **Short Term Project**
6. **Wind Technologies:** Joint project development with UMore Park wind research wind generators will reduce the impact of the campus on the environment, reduce the operating expense of campus utilities and provide a significant visual reminder to students, faculty and community regarding DCTC's commitment to a sustainable education. **Short Term Project**

Existing Stormwater management structure adjacent to new visitor parking (item 1)

See stormwater management plan appendix tab eight

4.3 Campus Use/Zoning

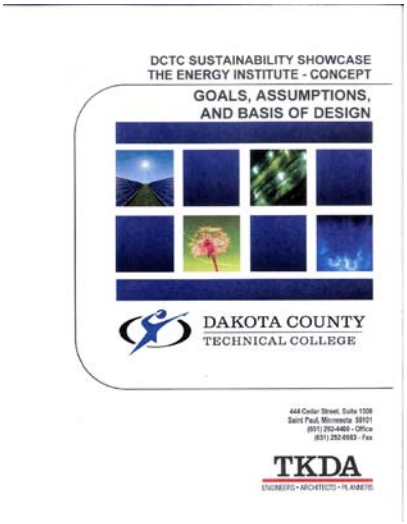
The campus development has established programmatic zoning that readily supports the current campus academic programs. A focus on sustainability and the success of athletics as a recruitment and retention tool are addressed through planned use of space previously not owned.



1. **Transportation outdoor support:** Current space is adequate; significant improvements to organization of stored components and paved surface drainage are required.

2. **Landscaping and Horticulture:** Expand current student project area to allow a variety of shade, full sun, dry and damp soil work areas. **Short Term Project**
   - Coordinate this function with wind turbines scheduled for installation in this area.

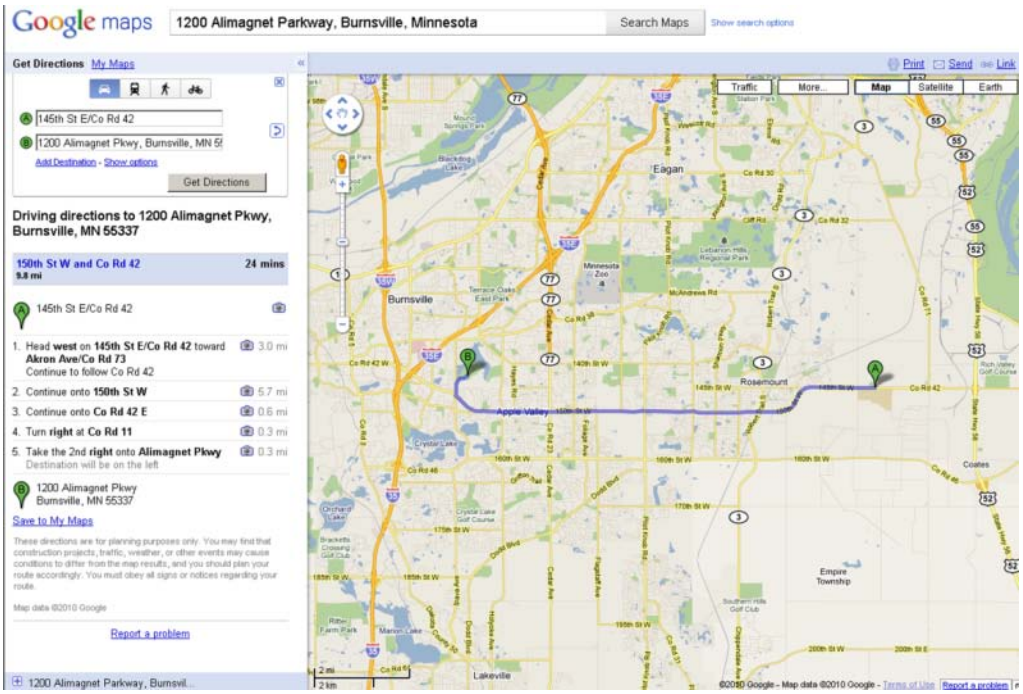
3. **Energy Institute:** Building Pad site for academic partnership components with a focus on green technologies. There is a shared interest in creating a facility that could be used for sustainable technology training, demonstrating innovative student projects and advances in green technology, hosting invited guest speakers, holding sustainably-related community events, convening high level discussions, and perhaps creating fund raising opportunities for the campus and future environmentally-concerned educations initiatives. **Mid Term Project**



   - This location is a placeholder set in conjunction with the UMore Park Energy Innovation Center outlined in the UMore Master Plan.
   - The location, separate from the existing main building and adjacent to CR 42 and the UMore energy innovation park is intentional. The curriculum delivered at the Energy Institute will be directed at non-typical students, similar to many MnSCU customized training centers. Classes will occur during regular, evening and weekend hours requiring security separation from the main building. A pedestrian connection will be provided to the main building however the anticipated use will be low.

See appendix tab six

4. **Baseball and Softball performance fields:** The Blue Knights Baseball currently has home games at Alimagnet Park in Burnsville. This location is 10 miles from campus with a google maps travel time of 24 minutes due to stoplights and city traffic. Baseball practice is located at various locations around the community. There are no conveniently located baseball fields near the campus that are useable for collegiate level play. **Short Term Project**
   - The field directly north of campus behind the Chrysler Shops is not useable due to severely sloping outfields. The field is located above a pipeline making re-grading impractical.
   - The development of the baseball fields will follow a similar path as the Ames Soccer Complex development. Partnerships with Ames for the grading of the field have been set in place at this time.
   - Partnerships for use of the field will include district 917 adaptive programs and provide a performance space for community baseball programs. Many community fields are now fully scheduled making it difficult to schedule Blue Knights practice and games on a priority level that matches the student athletes schedules.
   - The location of the baseball field offers ease of access to the community, parking that is separate from the Ames Soccer Complex that has a similar usage schedule and a sustainable example of stormwater management adjacent to the proposed energy institute.



5. Soccer, lacrosse, rugby performance and practice areas.

Through a partnership with the City of Rosemount and Ames Construction, the Dakota County Technical College Blue Knights men's and women's soccer teams are proud to have the Ames Soccer Complex as the home of Blue Knights soccer.

This three-field soccer complex is located on DCTC's property, was constructed through in-kind services provided by Ames Construction, and is maintained and managed by the City of Rosemount. In addition to serving the college, the soccer complex is home to Rosemount's youth soccer program and a number of other recreational activities.

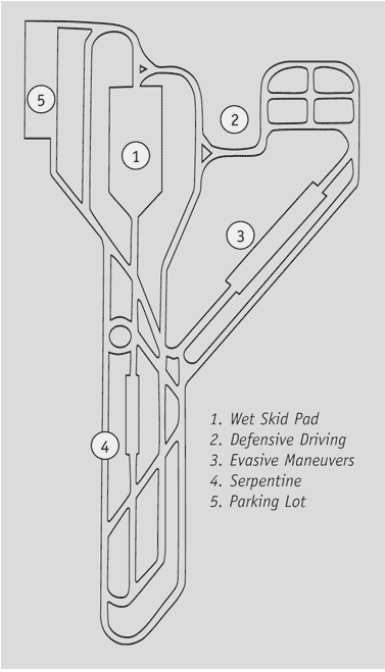
6. **Encourage the development of additional flat field practice and performance areas in adjacent parkland:** A goal of providing nationally recognized tournaments at DCTC requires several adjacent fields for development of programs and competitions. **Mid Term Project**
   - This parcel is not owned by DCTC, it is the intent of DCTC to participate in partnerships that benefit the College and the community.
   - The process of partnering between the City of Rosemount and UMore park is ongoing and may be set in place within the next few years.
   - The vision for this parcel is as an extension of the current Ames Soccer Complex

7. **Community and Events Center:** Building pad site for the development of a joint use facility to support campus and community athletics, fitness and health programs. **Long Term Project**
   - This location is a placeholder for a potential community partnership fitness center. Discussions regarding alternative location for health and wellness programs are indicated later in the building development section.
   - The separate building location is necessary only if the fitness center develops in partnerships with the City of Rosemount and private fitness companies. The separate location will provide an identity that is part, but separate from the main campus building allowing non-student use and additional evening and weekend scheduling that does not impact the security of the main building.
   - Existing pedestrian access to the center of the west parking lot will be extended to this site. It is not intended for covered pedestrian connections as the distance is not significant (750 feet) and the use of the facility is likely to be before or after most students other classes.

8. **Railroad Conductor:** Expand current track and yard system into Driving track site to provide controlled real world situations for railroad conductor and transportation students. **Long Term Project**

9. **Lineman training course:** Existing course, ownership of this site may now allow multiple usage on this area of sloped terrain.

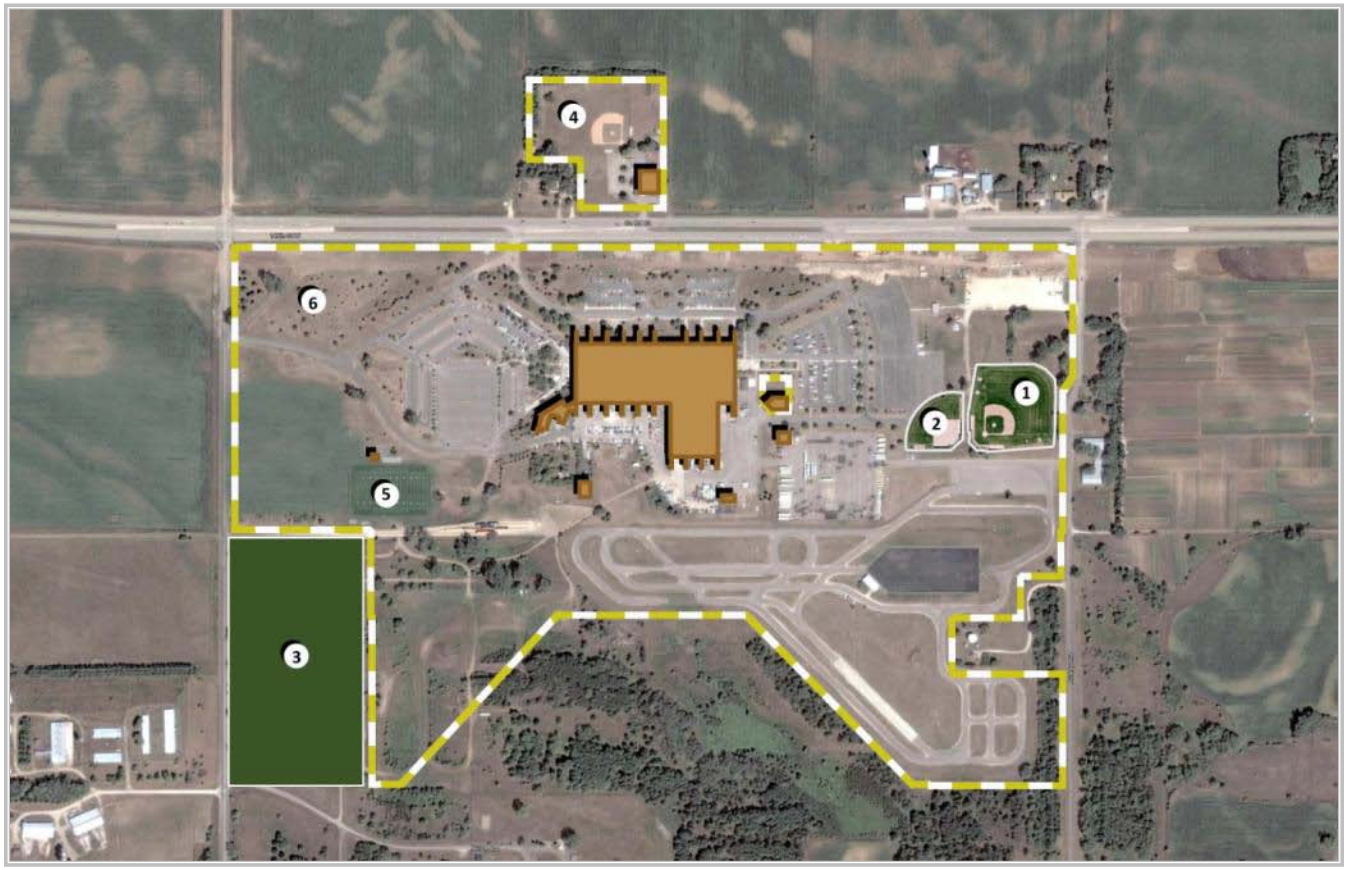
10. **Decision Driving Track:** DCTC has one of the finest decision driving ranges in the Midwest. It is a 2.8-mile roadway track that provides hands-on training for backing techniques, serpentine and evasive maneuvers, skid recovery, and control for all different types of vehicles.
    - Supports Accident Avoidance, Forklift Operator, Heavy Equipment Operation, MN Commercial Vehicle Inspector, Railroad Conductor, Truck Driver Training and Warehouse Dock Worker programs.



4.4 Athletics

DCTC Blue Knights Athletics has proven its value through successful programs. The recent completion of soccer playing fields has allowed those programs to excel in the past few years. Inadequate ball fields now limit the ability of DCTC Baseball and Softball programs to rise to the same level of excellence and recruit those athletes for a DCTC education.

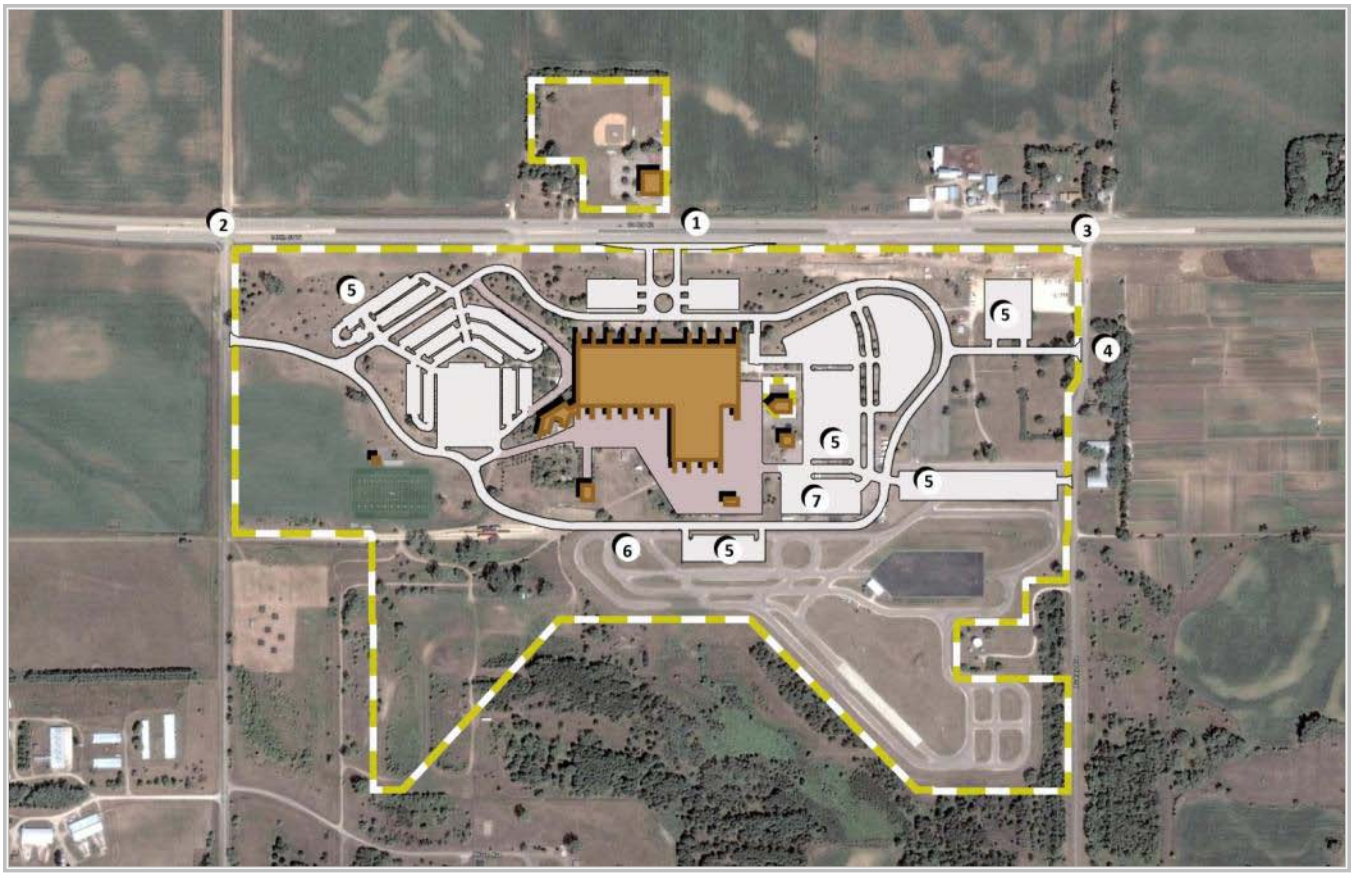
There are currently no facilities on campus to support Basketball or Volleyball.



1. Competition Baseball, seating for 200 **Short Term Project**
2. Competition Softball, seating for 100 **Mid Term Project**
3. Current plan for City of Rosemount park development. **Mid Term Project** **(not on DCTC campus)**
4. Current Baseball Diamond: Outfield slopes significantly uphill; the Blue Knight teams currently practice and play off campus.
5. Competition Soccer field, concessions and seating
6. Building Pad site for Community Center focusing on fitness, indoor athletics and health. **Long Term Project**

4.5 Campus Vehicular Circulation

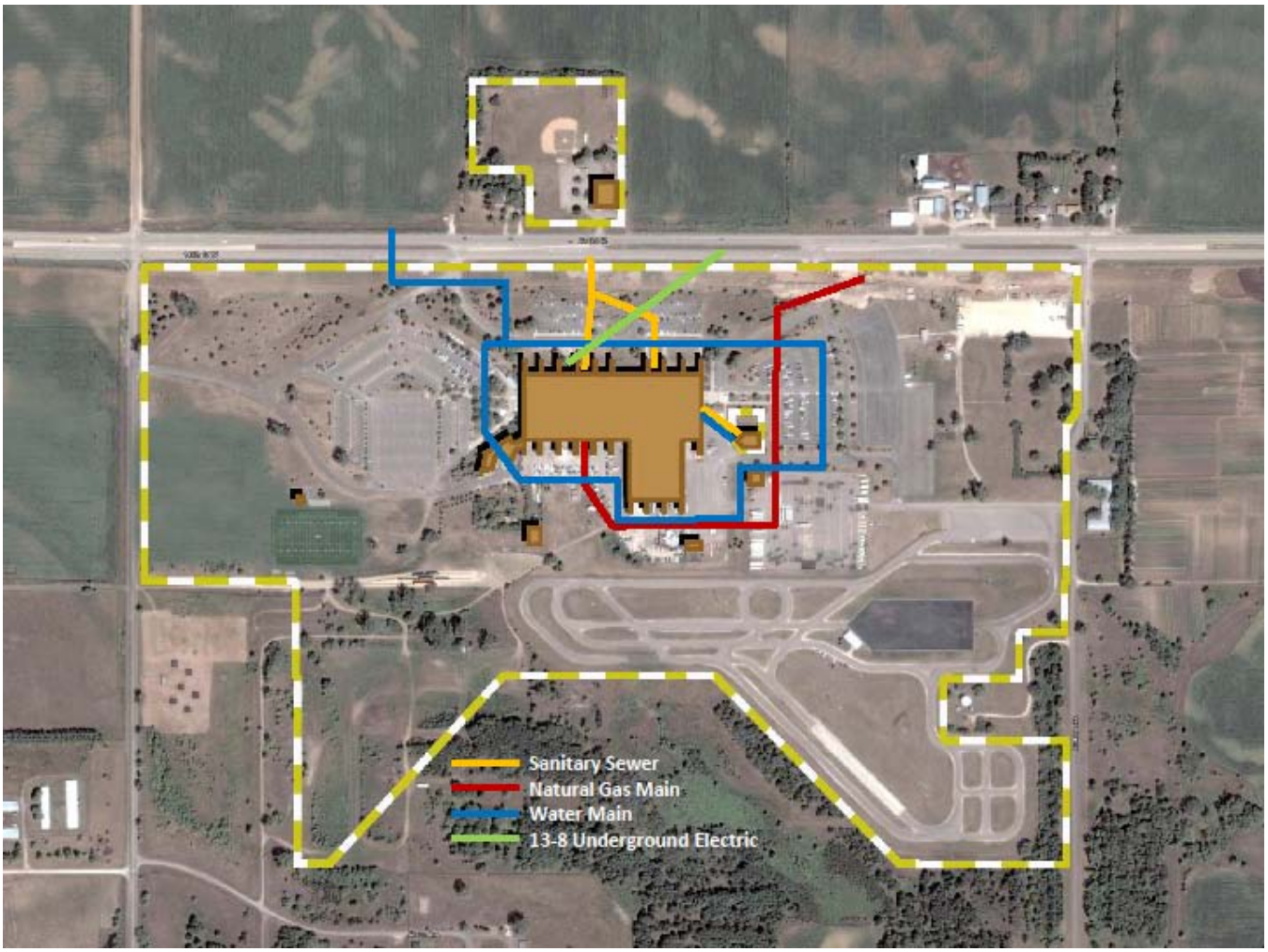
Significant recent and planned actions change the dynamics of vehicle circulation on the DCTC campus. The acquisition of property to the south of campus allows consolidation of transportation programs that require public and private vehicle circulation and parking. The purchase of the parcel east of campus allows the development of an East entry that is accessible and easily identifiable as a campus entry. Finally, CR 42 improvements will change the access to the campus at the main entry points.



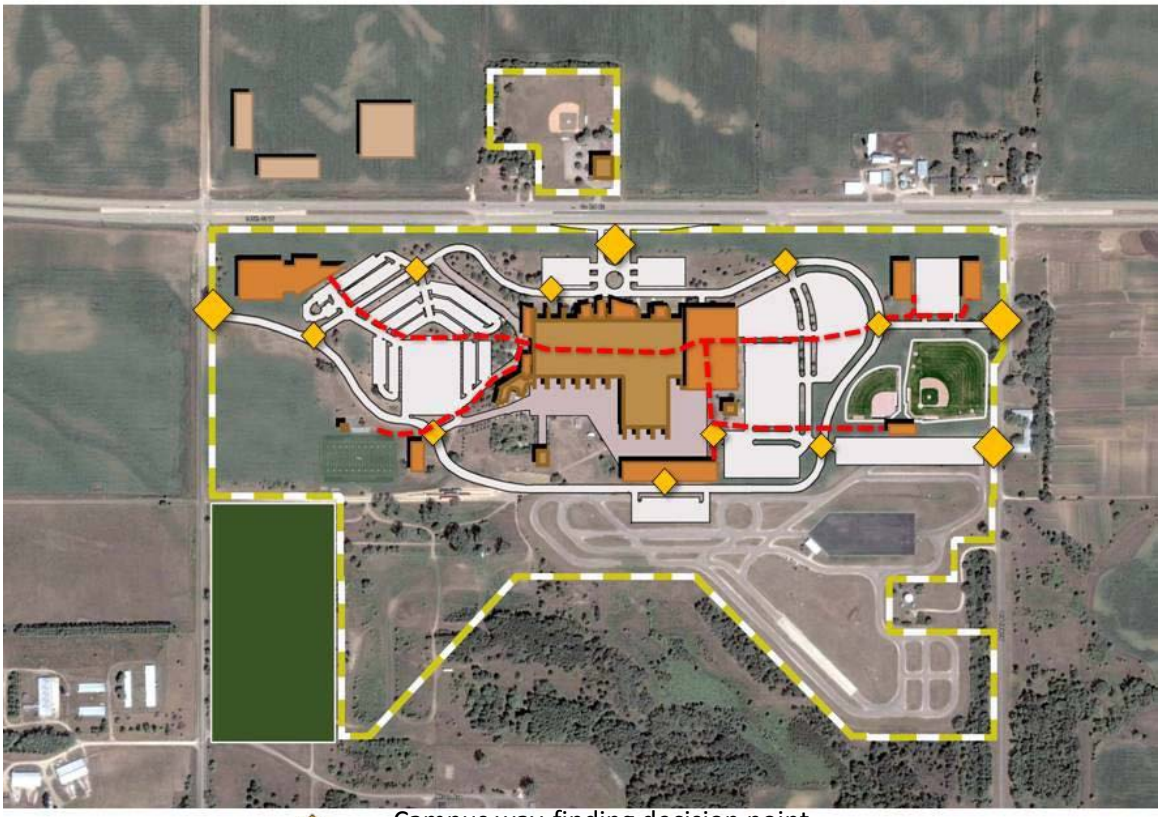
1. Main entrance to campus becomes right-in / right-out with no crossing to west bound CR 42
   Long Term Project – Dakota County road improvements
2. Controlled intersection at Akron Avenue allows full access to the west campus entry.
   Mid Term Project - Dakota County road improvements

3. A planned open interchange at Audrey will allow full access to the east campus entry. DCTC should lobby Dakota County to provide a fully controlled intersection at this point at the same time as Akron.
   Mid Term Project - Dakota County road improvements
4. New East Campus Entry: Signage for sustainable technologies and transportation.
   Mid Term Project
5. Proposed parking lot expansion
   Mid and Long Term Projects
6. South access drive completes the on-campus vehicular loop while maintaining controlled access to transportation outdoor staging areas.
   Mid Term Project
7. Truck Driving loading and storage area reduced in size to accommodate additional parking and ease 0f large vehicle access to transportation.
   Mid Term Project

4.6 Campus Utilities Planning:



4.7 Site Wayfinding and Pedestrian Organization

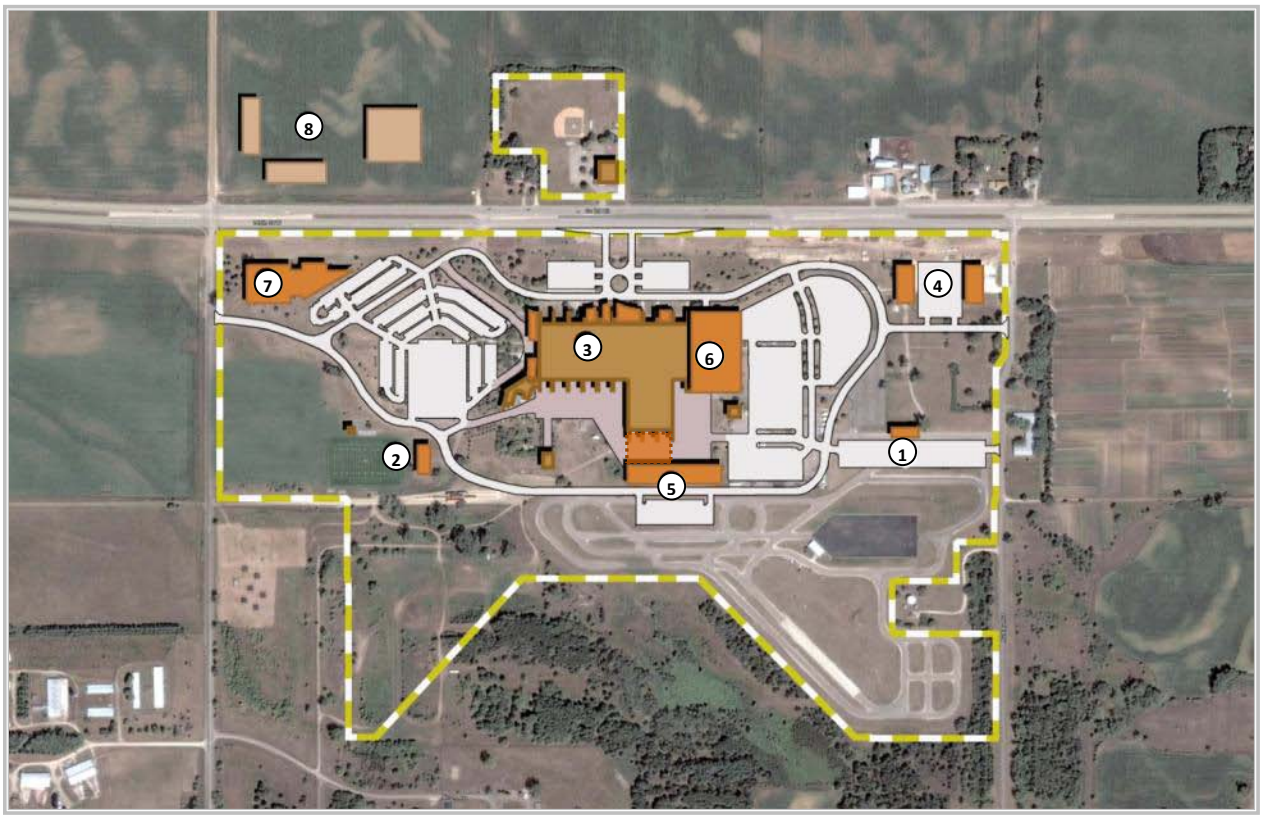


Campus way-finding decision point
Primary pedestrian path

Regional wayfinding is in place for Dakota County Technical College with county and MnDOT signage located on county road 42 and hwy 52 directing visitors to the correct exits as they approach the campus. This is followed by campus boundary signage that has recently been improved at campus corners, primary vehicle entry points and near the Ames soccer complex. Additional campus wayfinding will be developed at the decision points noted above. The aesthetics of the new signage and entry will be continued on future exterior campus direction signage.

As a commuter campus, exterior pedestrian circulation is now devoted to getting to and from the parking areas. As the campus master plan develops, these pedestrian corridors will need to extend to proposed fitness and energy related developments approximately 700 feet to the east and west of the main campus building.

4.8 Potential Building Expansion



1. Ball field support structure: Storage grounds equipment.
   Short Term Project
   - 40’ x 80’ Metal structure
2. Athletic fields support structure: Storage and grounds equipment
   Short Term Project
   - 40’ x 80’ Metal structure
3. Several options for small academic and student support additions
   Mid Term Projects
   - See details in section 5
4. Energy Institute: Private and academic partnerships
   Mid Term Project
   - Two three story buildings totaling 90,000 sf
   - Funded through a partnership that may include Dakota Electric, Xcel Energy, UMore Park, University of Minnesota, Dakota County and the City of Rosemount.
   - Similar to a customized training center attracting non-traditional students looking for an identity and service delivery separate from the main campus.

5. Transportation Building: GM training, Chrysler Training, automotive clinic and Truck Driving

   Mid Term Project

   - Single story high bay structure 30,000 sf
   - Partnerships bring approximately 4000 students per year to DCTC at non-traditional class times. These students typically do not access the general classrooms
   - Public access for automotive clinics will be provided by the proposed south vehicle access road
   - Building location allows observation of decision driving range for test drives and training activities
   - Note dotted option for connection to existing building if desired

6. East Addition: Sustainable and Innovative technologies

   Long Term Project

   - This addition is an alternate location for item 7 if a health and fitness component is funded through student revenue projects.
   - This addition relies on the acquisition of the district 917 property

7. Community Health and Wellness Center

   Long Term Project

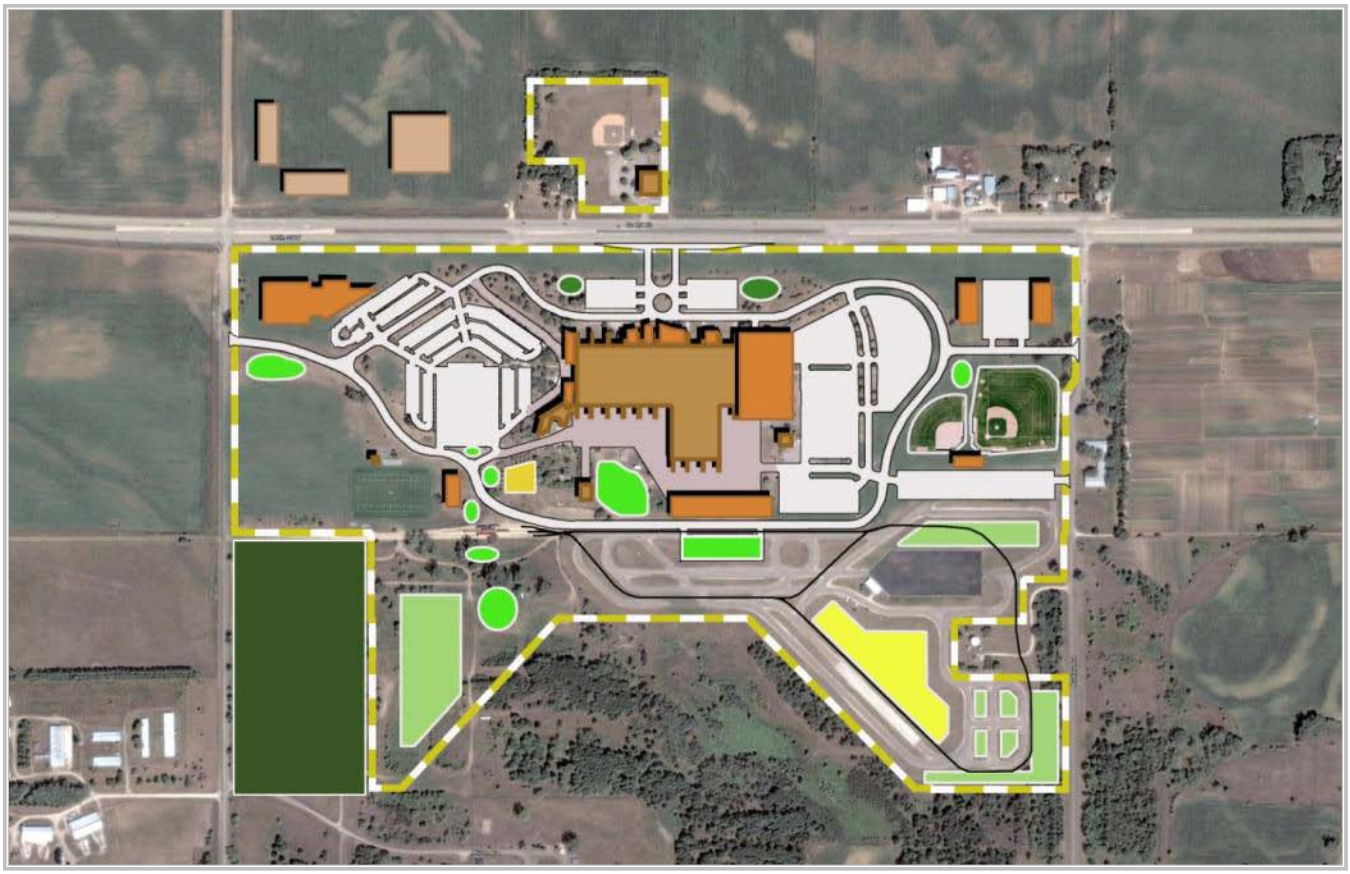
   - 50 to 70,000 sf depending upon amenities
   - The separate location will provide an identity that is part, but separate from the main campus building allowing non-student use and additional evening and weekend scheduling that does not impact the security of the main building.

8. Student Housing and Lodging (not owned) DCTC to encourage private partnerships to develop

   Long Term Project

   - This location is off campus and not envisioned as a campus led project.
   - Opportunities will be explored with developer owned housing
   - Options for student apartments should be explored, dormitory type housing will not be attractive to the typical DCTC student
   - Discussions with major chain hotels for lodging may be tied together with the desire to sell 8 acres north of CR 42.

4.9 Summary Graphic



See previous pages for content description and information.

4.1B Land Management – Apple Valley Lease

Partners in Higher Education

Dakota County Technical College currently leases property from the City of Apple Valley. The primary use of this property is for Business and Management programs and academic Partnerships with St. Mary's University of Minnesota and Inver Hills Community College.

Academic Program space consists of 10 classrooms ranging in capacity from 12-75 students, and three computer labs. On-site parking is available for 175 vehicles.

Location

The Partners in Higher Education Center is located north of County Road 42 on Cedar Avenue. The location is 5 minutes south of the Mall of America and convenient for all south metro students.

The location of the leased space on Cedar Avenue is ideal for:

- Hosting incubator programs with flexible schedules
- Building community relationships with Apple Valley
- Attracting students from Bloomington and South Minneapolis
- Location near business and retail hub promotes the entrepreneurship board

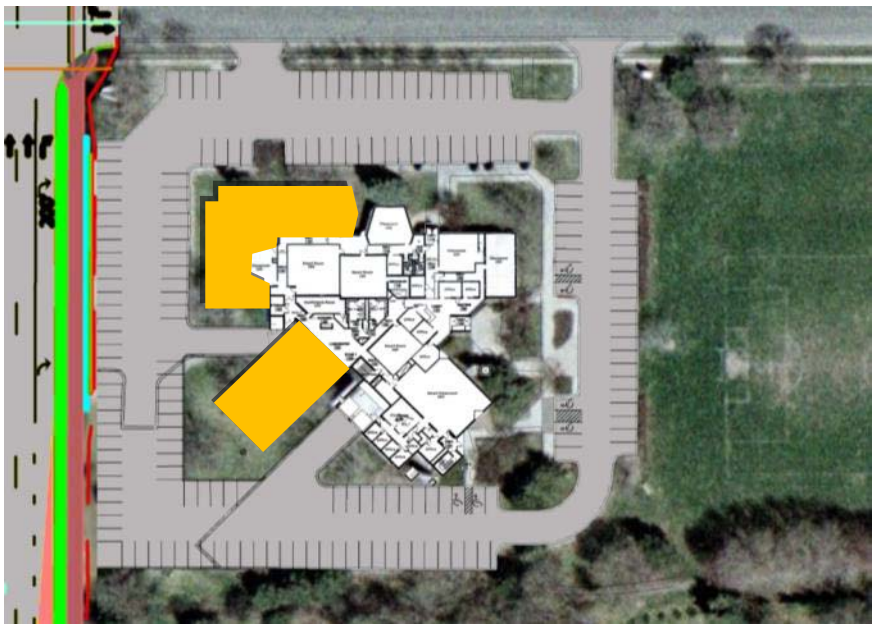
Utilization

Classroom utilization at the Apple Valley Site exceeds 100% on all classrooms. Growth in the Business and Management is limited due to space constraints and St. Mary's University of Minnesota is considering expanding course offerings at the Apple Valley site.

Building Expansion Options

The primary options for expansion of the Apple Valley site include expanding in place or leasing at a different location with additional square footage.

1. **Expand the current site:** The City of Apple Valley has expressed interest in constructing additions to the building to accommodate the needs of DCTC.
   - Current lease rates are below market rate.
   - Expanded parking at the site is limited. Many times students are parking in the adjacent residential neighborhood.
   - The existing building mechanical systems are beyond their expected life span and do not provide a comfortable environment for the occupants. Replacement of the HVAC systems has been studied.
   - Cedar Avenue traffic controls and pavement improvements scheduled for 2012 will improve access for students north of the building. Exiting the campus will become much more difficult for the few students that live or work south of the building.
   - Expansion and renovation will be disruptive to students and faculty.
   - It is likely that the lease rate following complex additions and renovation will still be below but much closer to market rate.



2. **Lease space in new building:** The location on Cedar Avenue north of County Road 42 and south of Eagan is ideal for the mission and population served by the Partners in Higher Education Site.
   - There are no current buildings in the target area that contain more than 20,000 square feet and adequate parking.
   - One vacant bank building containing 13,000 square feet is available. This may be a possibility for an interim location for an expedited addition and renovation of the city hall site.
   - A vacant corner site on a full access intersection is available for development. A developer would desire a structure containing at least 30,000 square feet at this site. This would expand the program area to approximately 20 classrooms, offices for faculty and administration and student support space.

Short Term Recommendations:
The existing building HVAC systems are aging and do not function well for classroom occupancies. Work with the City of Apple Valley to replace the HVAC systems.

Mid-Term Recommendations:
There is need for additional classroom space at this location. The options outlined above indicate additions or relocation to a nearby space.

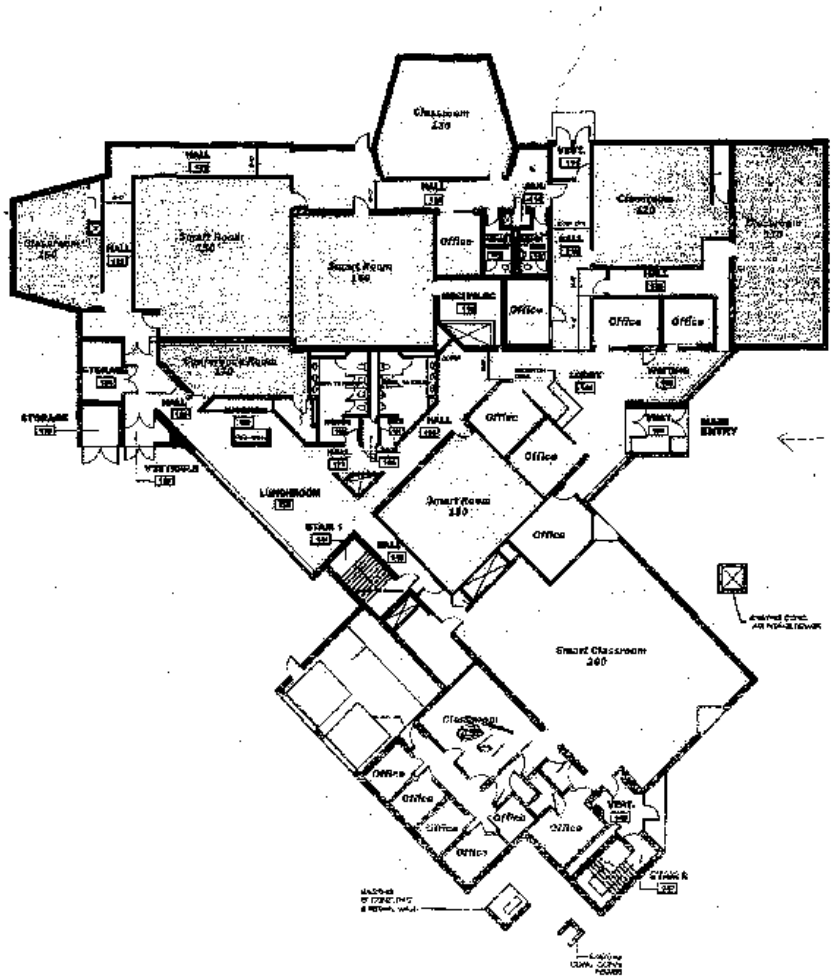
Long-Term Recommendations:
Continued presence in this location is desired. This Apple Valley site offers services to a distinct demographic that may not utilize the same services if offered at the main campus. Additionally, this location builds community relationships with a major city within the DCTC service area.

4.2 Sustainable Site Development

Integration of sustainable practice with educational opportunities are well established at DCTC, following through on the Presidents Climate Commitment.

1. The re-use of the existing building meets one of the primary sustainable goals.
2. Occupant comfort and energy efficiencies should be provided with either the HVAC replacement or new construction.
3. The re-development of Cedar Avenue offers many options for integration of storm water catchment systems.
4. The Cedar Avenue improvements will provide a major Bus Stop adjacent to the vacant parcel. Students at Apple Valley should be encouraged to utilize the extensive transit system on Cedar Avenue.

4.3 Building Planning:



4.1C Land Management – Eagan Lease

IT Training Center

Dakota County Technical College currently leases the second level of the Eagan Business Center. The primary use of this property is for the IT Training Center with customized programs that have been designed by people who know IT and know how deliver comprehensive instruction to busy professionals.

Academic Program space consists of 7 classrooms for 15 students and two classrooms for 30 students. Several computer labs and offices support the classrooms. An on-site commons allows student to remain on campus beyond class time. Parking is shared with other tenants and has not been a problem.

Location

The Eagan Business Center is located at the intersection of Lone Oak Road and Gemini Road. The location is not readily found without specific directions.

The location is ideal for the primary student demographic which consists of workforce employees improving skills in technology.

Utilization

Classroom utilization at the Eagan Site exceeds 100% on all classrooms. The current location is working well and no expansion is required.

Short Term Recommendation:
Continue operating under existing lease arrangements

Mid and Long Term Recommendations:
When lease negotiations occur or other DCTC development occurs, relocation may be considered within the area.

As DCTC grows, development may require the support of a proven tenant and the reduction of existing lease costs. Options for relocation may be at the Apple Valley site building expansion or at additions to the main campus in Rosemount.

4.2 Building Planning:

4.1D Land Management – South St. Paul - Owned

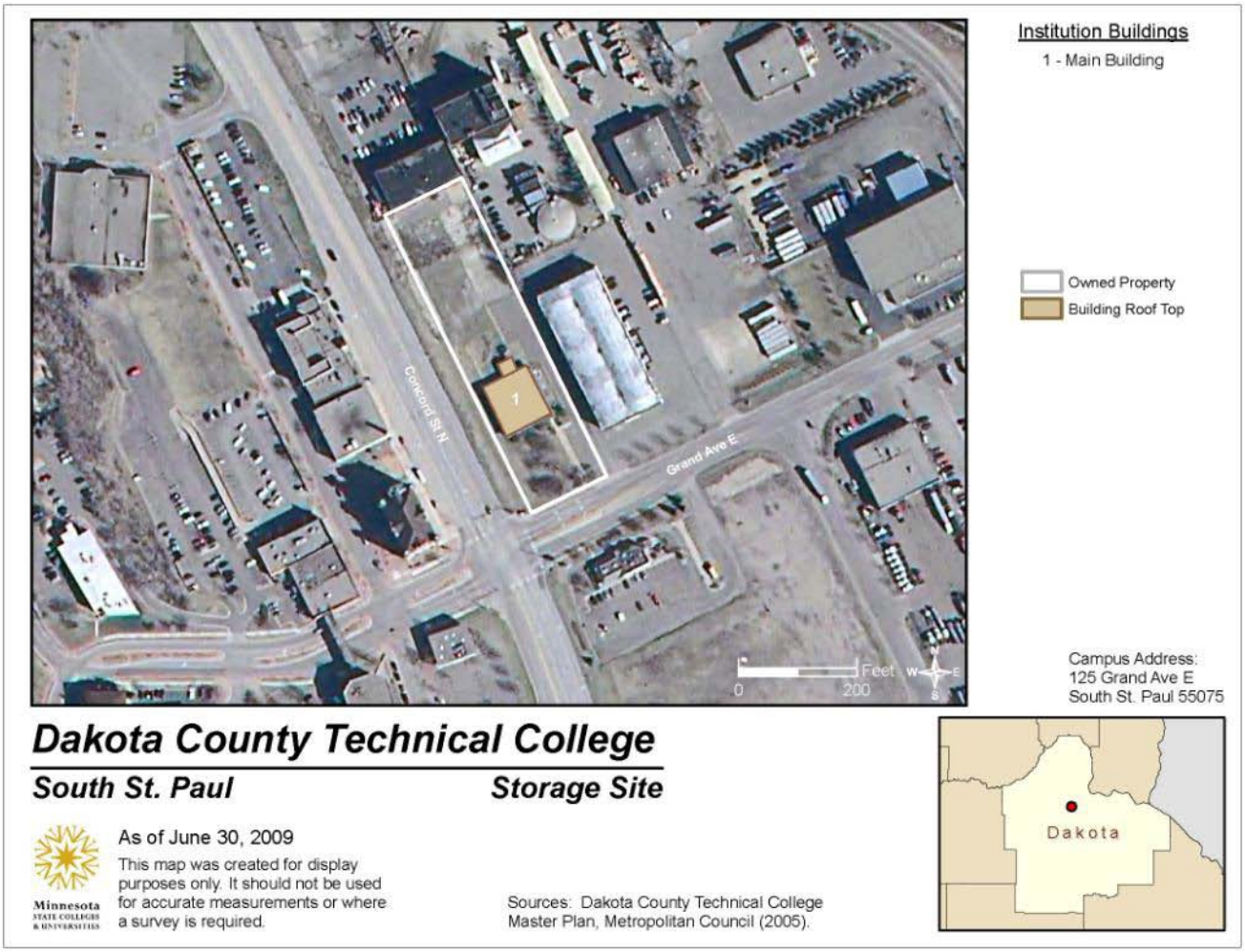
Dakota County Technical College currently has 80,000 sf of land containing a 7500 sf building in South St. Paul. The property has been used for various academic, community and storage functions. Currently it is being used for athletic training and storage.

The demographics of the surrounding area do not support academic continuing education programs and the College is looking to divest itself of this property.

A 2009 property appraisal set a value of $525,000.

The college will continue to utilize the building for storage until sale of the property is completed. There are no current plans to offer academic programs at this location.

4.2 Building Planning:



This page left Blank intentionally

5.1 Major vision guiding future building development:

Dakota County Technical College delivers unique, relevant and effective programs to students from diverse backgrounds. The faculty have the industry credentials to teach the appropriate technology that gives students the opportunity to translate the education into marketable skills for access to jobs that contribute to a vibrant regional economy. The mission of Dakota County Technical College is to provide collegiate-level education for employment that will empower individuals to enhance their opportunities for career advancement and success in a global economy. The college stresses the importance of real-world experience in each program through relevant classroom and lab experiences, offering access to industry-standard facilities, equipment and technology. Additionally, student learning is enhanced through service-learning, internship and clinical experiences that provide the direct link with the marketplace the students will enter upon graduation.

In line with a renewed focus on the environment, DCTC instituted a Green Campus Commitment as the means to promote earth-friendly sustainability principles in all areas of the college. This includes facilities, departmental practices, student programming and curriculum. The college has strengthened its responsibility to providing co-curricular programming and facilities to complement the classroom learning.

The college is committed to providing a higher education environment on-site and on-line that promotes student learning, educates for a global marketplace, and engages the local community. With this commitment, the college vision is to be recognized as a leader in providing quality technical and general education needed for employment in an ever-changing work environment.

The projects outlined in this section of the master plan support the campus values including:

- Excellence: Focus on quality in programs and services
- Diversity: Show acceptance, openness and fairness to everyone
- Innovation: Encourage and reward new ideas, proactive thinking and use of evolving technology
- Respect: Foster trust, courtesy and open communication
- Integrity: Promote ethical and honest behavior
- Accountability: Maintain effective and efficient programs and services
- Collaboration: Work cooperatively in a supportive environment

5.2 Existing Building Conditions:

The framework for improvement offers program enhancements, operational efficiencies and building condition improvements addressing several items outlined in chapter 2 existing site conditions and chapter 3 existing building conditions. These include:

- HEAPR projects including HVAC indoor air quality, building envelope improvement, parking and roads improvement, sustainable site lighting and power distribution
- Creates a plan for consolidation of District 917 programs
- Proposes utilizing corridor space currently not required for code exiting or wayfinding to increase the usable square footage of the existing building
- Consolidates all design programs to one area to improve collaboration and focus on sustainability
- Proposes several locations for academic classroom additions
- Proposes additions to support student center and student services
- Proposes additions for Technical Sciences programs
- Proposes additions for new and innovative programs

In addition to these site and building related projects, the phasing and implementation schedule includes projects that are related to the correction of code deficiencies as well as asset preservation (HEAPR) and the college's own repair and maintenance items.

5.3 Phasing Strategy (buildings only):

The projects are separated by time frame as short range (0-5 years), mid range (5-10 years), and long range (10 years and beyond). These are listed below.

SHORT RANGE PROJECTS (0-5 YEARS)

- Complete the Transportation and Emerging Technologies renovation
- Expand the Partners in Higher Education Center
- Medical and Dental Assistant renovation
- Truck Driving facility renovation
- Chrysler Shops renovation
- Competition Baseball Facilities
- Develop on-campus wind generation
- Develop on-campus solar collection

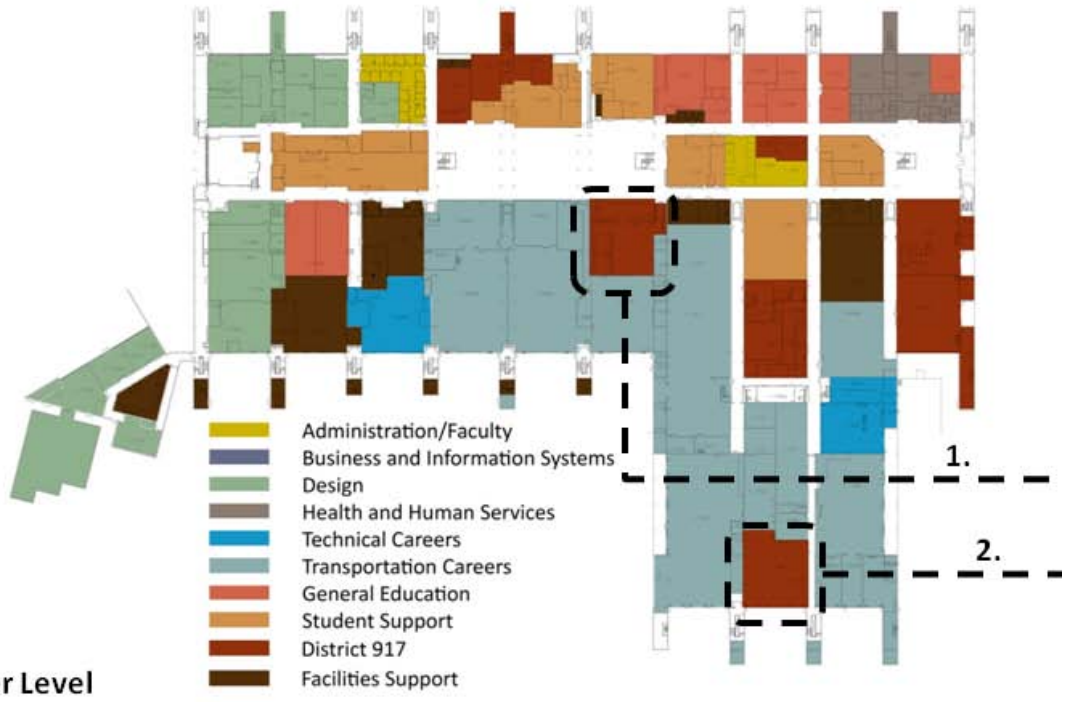
MID RANGE PROJECTS (5-10 YEARS)

- Energy Institute building
- Transportation Partnerships building
- Community Health and Wellness Center
- Technical Sciences addition
- Sustainable Design Studies renovation
- Consolidate District 917, various renovations
- Center for New and Innovative Programs renovation
- Aquire District 917 property
- Complete stormwater management of impervious surfaces
- Complete south vehicular circulation and parking lot renovation and reconfiguation

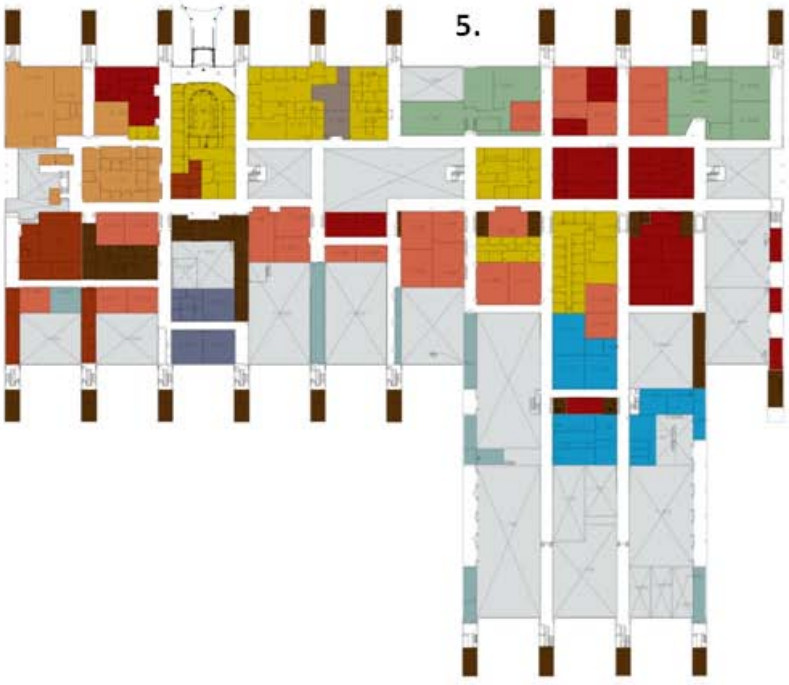
LONG RANGE PROJECTS (10+ YEARS)

- Student Center addition and renovation
- Sustainable Design Studies addition and renovation
- Extend railroad onto decision driving range with light rail component
- Classroom additions

The following pages provide a graphic schedule of projects and the required "backfill" projects that develop as one space is moved from existing deficent space to newly renovated space.

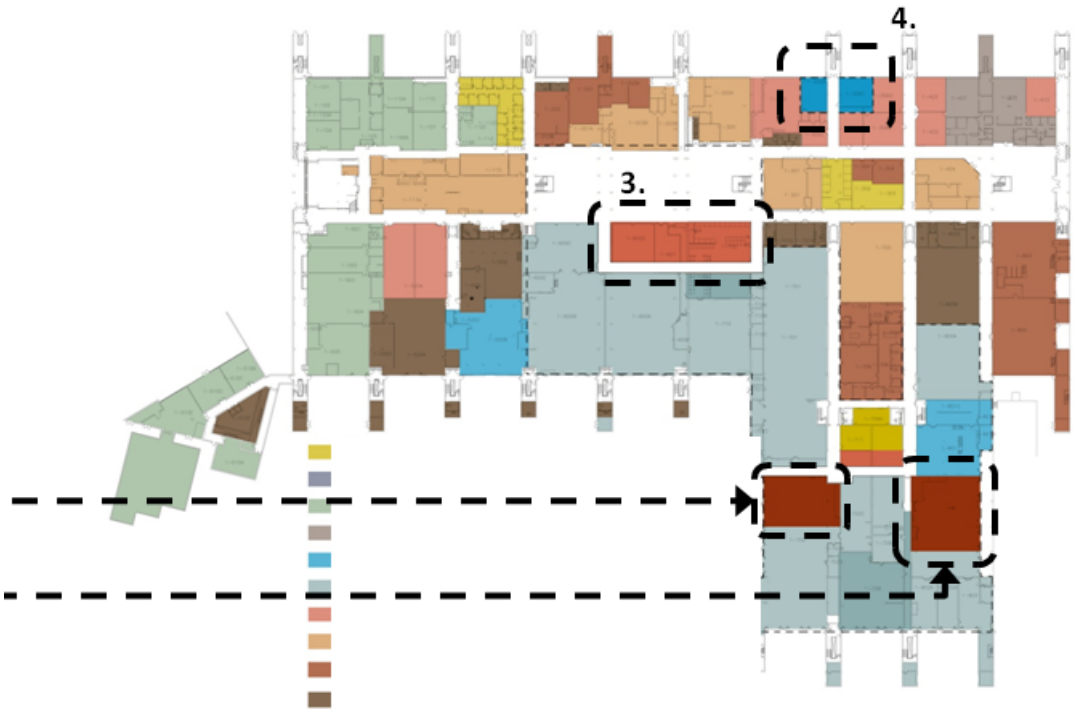


Lower Level



Upper Level

EXISTING PROGRAMS

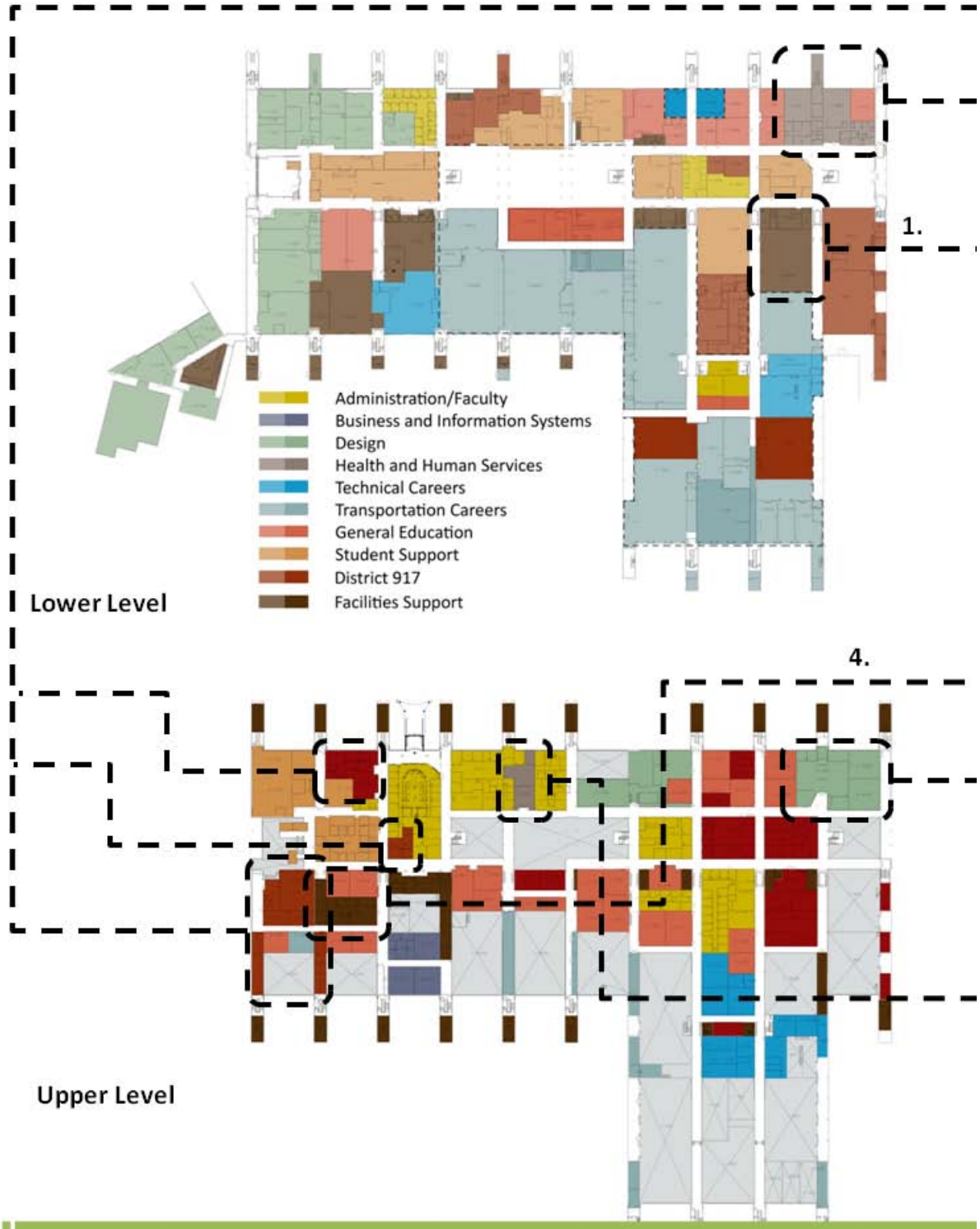


Short Term Projects

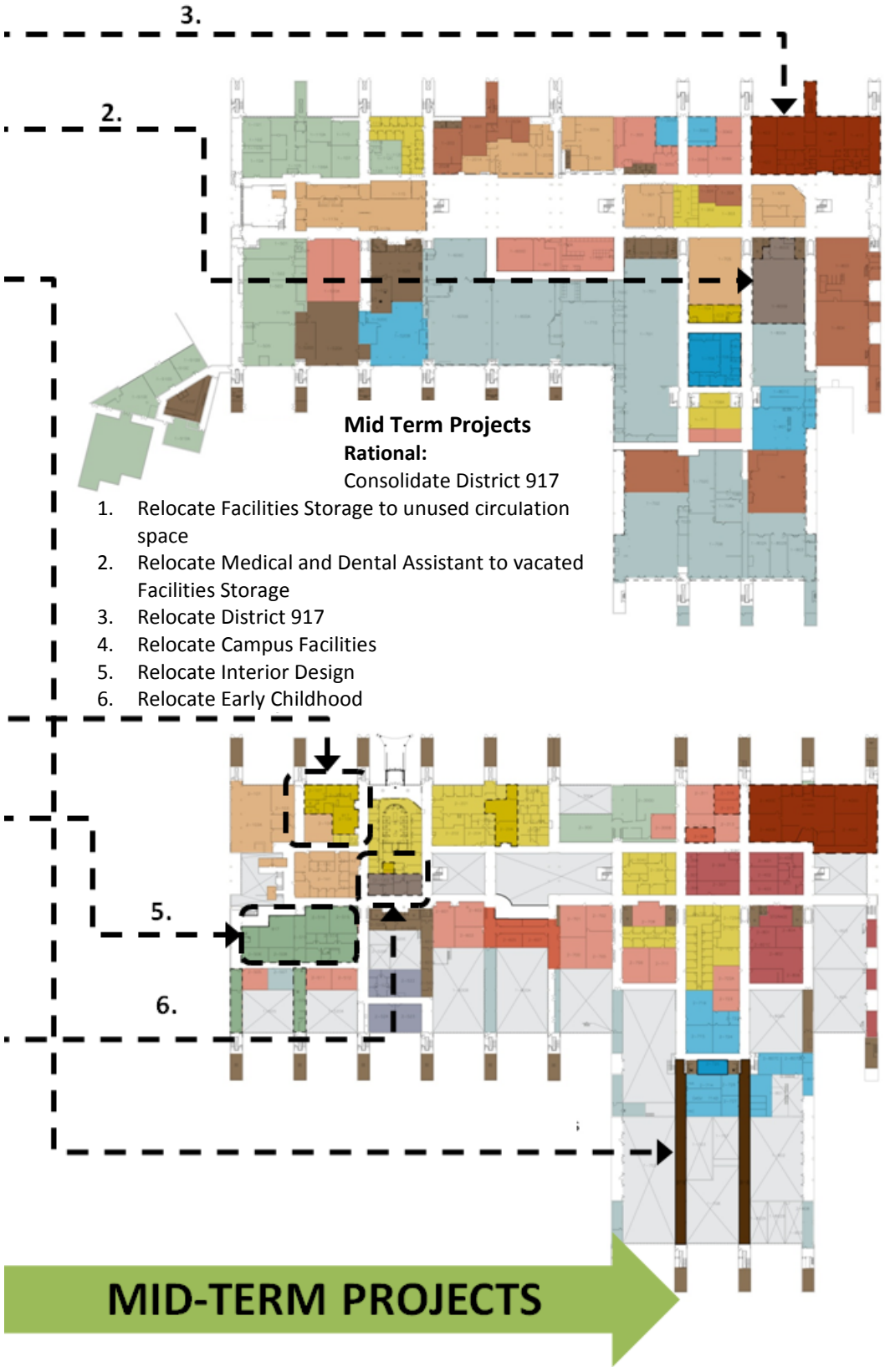
Rational:
The Transportation and Emerging Technologies program will provide "state of the art" shop spaces and classrooms equipped with the latest technologies to attract students and help them prepare for the future job market. A central flexible classroom area will provide increased utilization of technical classrooms. This project is scheduled for two phases of construction in 2010 and 2012

1. Relocate Welding
2. Relocate District 917 Trucks
3. Increased efficiencies allow general classrooms
4. Nano technolgies and Bio-medical technologies adjacent to science

SHORT TERM PROJECTS



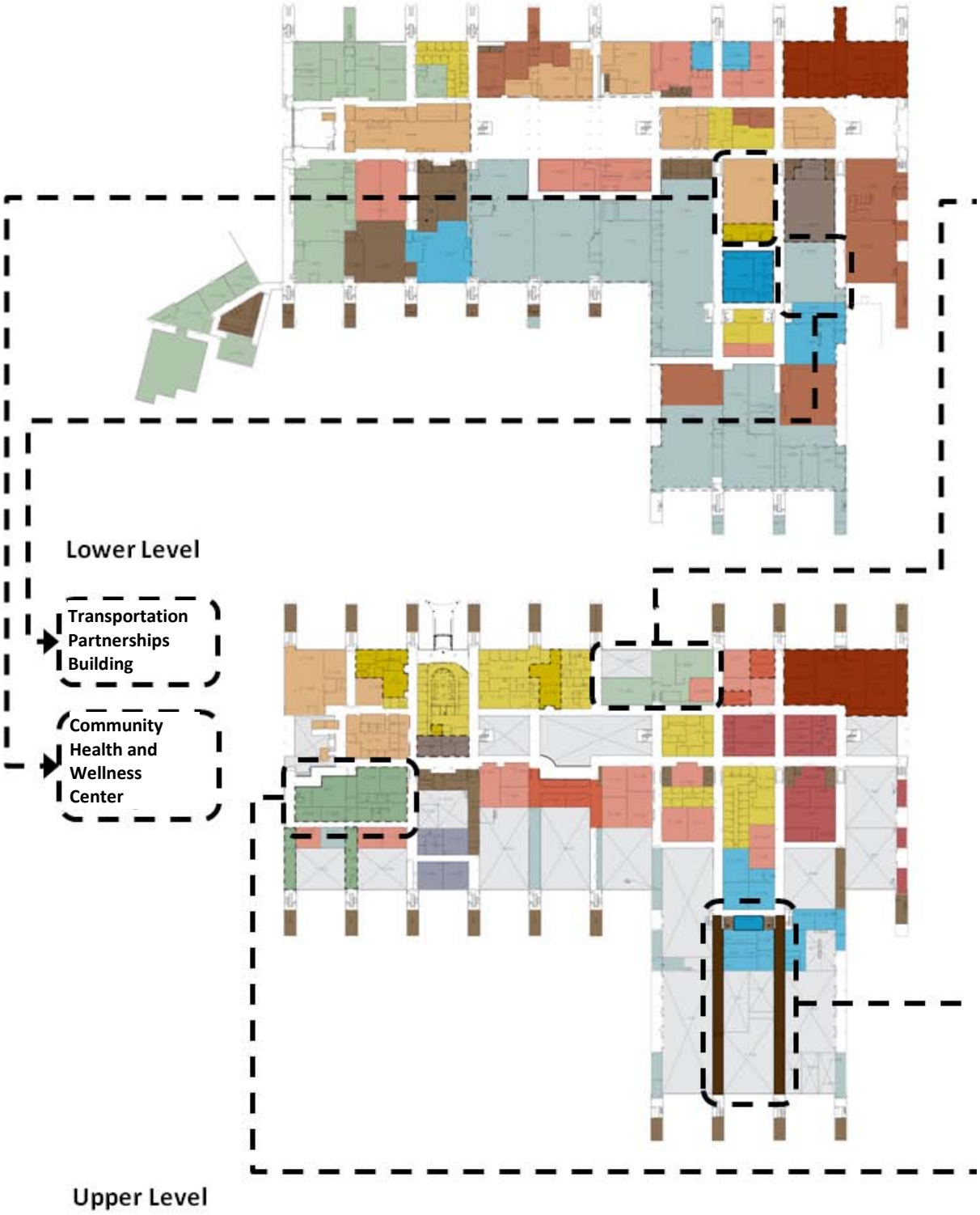
SHORT-TERM PROGRAMS

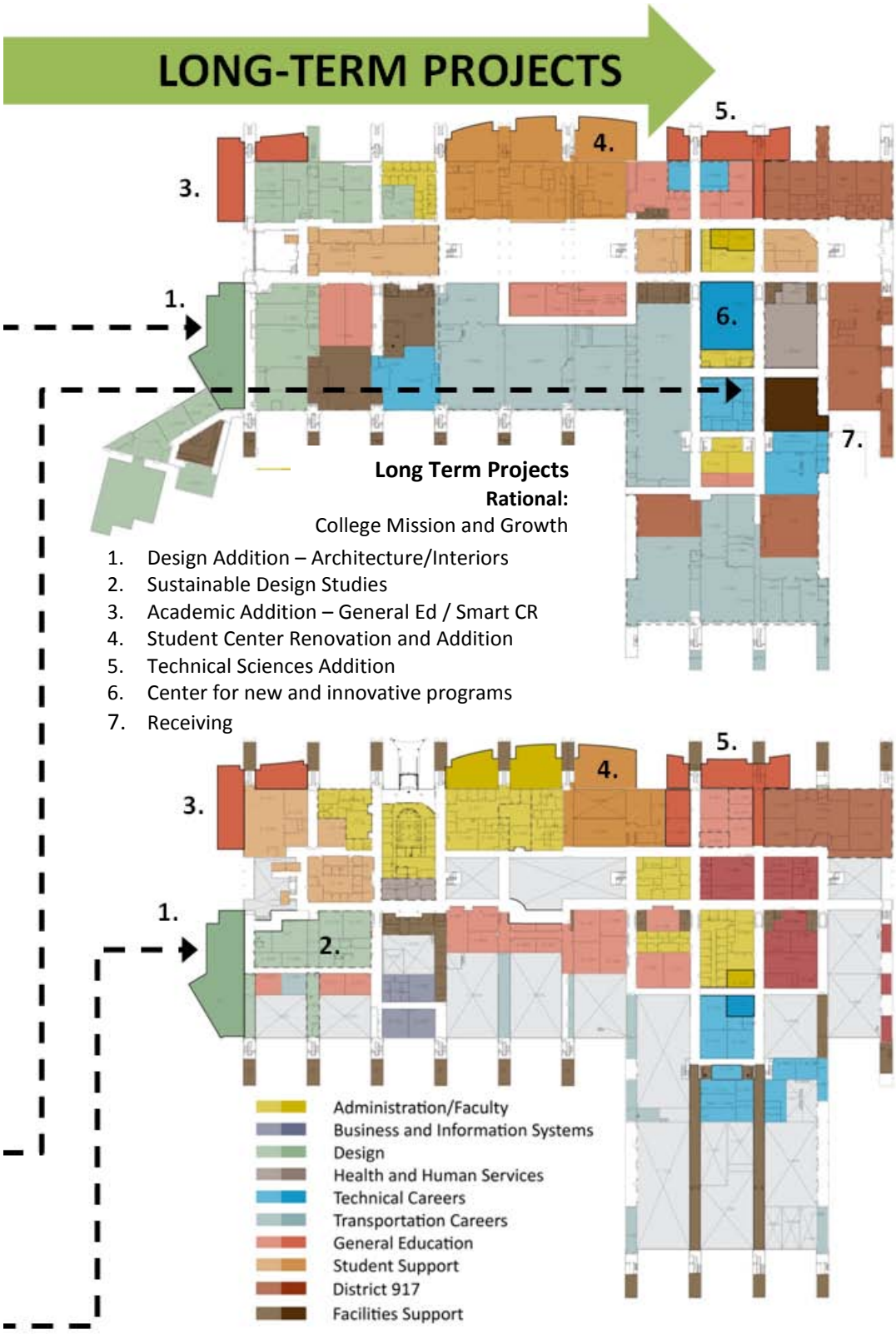


Mid Term Projects
Rational:
Consolidate District 917

1. Relocate Facilities Storage to unused circulation space
2. Relocate Medical and Dental Assistant to vacated Facilities Storage
3. Relocate District 917
4. Relocate Campus Facilities
5. Relocate Interior Design
6. Relocate Early Childhood

MID-TERM PROGRAMS




LONG-TERM PROJECTS
1.
2.
3.
4.
5.
6.
7.
Long Term Projects
Rational:
College Mission and Growth
1. Design Addition – Architecture/Interiors
2. Sustainable Design Studies
3. Academic Addition – General Ed / Smart CR
4. Student Center Renovation and Addition
5. Technical Sciences Addition
6. Center for new and innovative programs
7. Receiving
Administration/Faculty
Business and Information Systems
Design
Health and Human Services
Technical Careers
Transportation Careers
General Education
Student Support
District 917
Facilities Support

5.4 Short Term Projects:

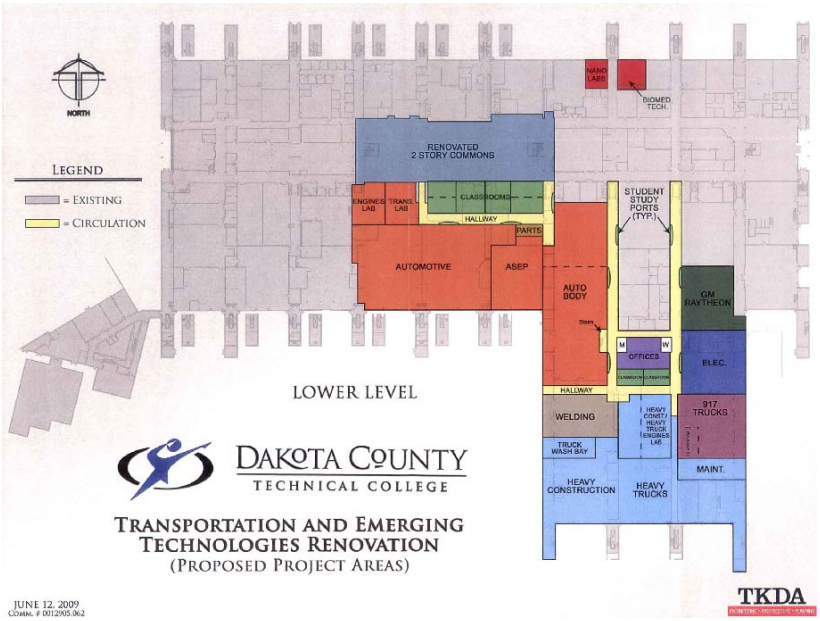
The primary building related short term project involves the successful funding of the transportation and emerging trades project. Funding for this project was vetoed in 2010.

Transportation & emerging technologies lab renovation

Cost: $7,230,000 in 2012, $6,900,000 in 2014

Project at a Glance:

- Renovate to support transportation and technical education in shared, flexible labs and classrooms and support general technology, engineering and math initiatives
- Maximize efficient use of the existing structure by creating common classrooms and laboratory spaces to be shared by related academic programs
- Improve instructional space in high-wage and high-demand transportation-elated program areas
- In the past year, in-kind donations of equipment and materials for these programs have totaled more than $1 million • on average, more than 95 percent of graduates secure employment in a field related to their studies
- Design partially funded in 2008 and request anticipated in 2012 for $6.9 million to complete the renovation
- Renovate 118,000 square feet for transportation and emerging technologies programs
- Eliminate $3.5 million of deferred maintenance



5.5 Mid Term Projects:

Mid-term renovation projects focus primarily on an academic plan consolidating design studies, efficient planning for District 917. These projects are planned to maximize building efficiencies and reduce the Facilities Condition Index of the Main Building and the Main Addition Building.

Medical and Dental Assistant Renovation

Cost: $500,000

Funding: Capital Bonding STEM initiative

Project at a Glance:

- Relocate existing functions to current warehouse space
- Improve finishes and functions
- Not scheduled for significant square footage increase
- Vacated space allows District 917 consolidation project to proceed
- Eliminates defered maintenance from the main building addition

Major Description: Dental Assistant

This program prepares students for employment in dentistry as a Certified Dental Assistant and a Licensed Dental Assistant. Students are trained to expose and process dental x-ray films, master a variety of chairside skills and expanded functions delegated by the Minnesota State Board of Dentistry. Students also study ways to control and prevent dental disease.

Major Description: Medical Assistant

Accredited by the Commission on Accreditation of Allied Health Education Programs, or CAAHEP, on recommendation of the Medical Assisting Education Review Board, this program trains students to be professional medical assistants dedicated to patient care management. Graduates are equipped to assist physicians with examinations and treatments, take medical histories, perform diagnostic tests, expose X-ray films, sterilize instruments and supplies, assist with minor surgery and administer medications.

Sustainable Design Studies renovation

Cost: $500,000

Funding: Capital Bonding Classroom initiative

Project at a Glance:

- Relocate existing functions to vacated District 917 space
- Improve finishes and functions
- Consolidates interior design and architecture with landscape and multimedia design for a sustainable design studies center
- Not scheduled for significant square footage increase
- Vacated space allows Student Center and Technical Sciences Additions and renovations to proceed
- Eliminates deferred maintenance from the main building

Major Description: Architectural Technology

Students use design techniques and procedures to develop and prepare construction drawings for residential and commercial buildings. Students work in an environment patterned after the most up-to-date architectural offices. Students are taught computer-aided design and drafting (CAD) and architectural drafting standards. Realistic architectural projects in the course provide an excellent mix of technical training and creative problem solving.

Major Description: Interior Design

This program prepares students to enter the interior design profession. Developing skills and knowledge to design functional and aesthetically pleasing environments, students use design theory, interior materials, building codes, manual and computer aided drafting, three-dimensional drawings, and sustainable design approaches to prepare design solutions for residential, kitchen and bath, and commercial projects.

Technical Sciences Addition and Center for New and Innovative Technologies

Cost: $11,000,000

Funding: Capital Bonding

Project at a Glance:

- Support academic initiatives for core science studies needed by DCTC students across a curriculum offerings
- Continue development of successful new and innovative programs
- Eliminated deferred maintenance from main building addition

Philosophy of General Education

Dakota County Technical College incorporates General Education into its curriculum because it firmly believes that higher education involves breadth as well as depth of study and because General Education also achieves an important goal of the college's mission. This goal states: This education will empower individuals to obtain and retain employment, enhance their opportunities for career advancement, and furnish a supportive environment in which they can develop the knowledge, skills, and attitudes necessary to succeed in a global economy.

Nano-science technology is an excellent example of a New and Innovative Program:

This program prepares students for careers in the nanobiotech, nanomaterials and nanoelectronics industries. Offered through a partnership with the University of Minnesota, the program gives graduates the skills and knowledge to land jobs in companies and corporations applying nanotechnology to product development, testing, research and development, and manufacturing design.

Nanoscience technicians work in research, production, marketing and business environments where nanoscale is integral to the industry. The U.S. nanotech market is expected to mushroom to $1 trillion by 2012.

Student Center renovation and addition

Cost: $12,000,000

Funding: Capital Bonding

Project at a Glance:

- Support academic initatives for a student-focused campus environment that will engage students, keeping them on campus and in school
- Resolves food service space, function and delivery issues
- Improves environments for learning, meeting and study
- Eliminated deferred maintenace from the main building and addition

Student Life:

The DCTC Student Life program encourages student growth and development through a variety of clubs, organizations and activities funded through student activity fees. Student Life supports a variety of extracurricular programming to supplement college coursework.

All students currently enrolled at DCTC are eligible to participate in DCTC sponsored clubs, organizations & activities. The college also offers opportunities to participate in Phi Theta Kappa (PTK) and collegiate athletics.

Student Clubs

- American Marketing Association (AMA) Club
- Automotive Club
- Chess Club
- Coral Reef Ecology Club
- Design Connexion
- GSA Gay Straight Alliance
- Landscape Horticulture Club
- Meeting Professionals International (MPI) Club
- Veterans Club

Student Leadership

- Student Ambassadors
- Student Government

Organizations and Activities

- Multicultural Student Leadership Association (MSLA)
- Phi Theta Kappa International Honor Society
- SkillsUSA Minnesota
- Wellness Center

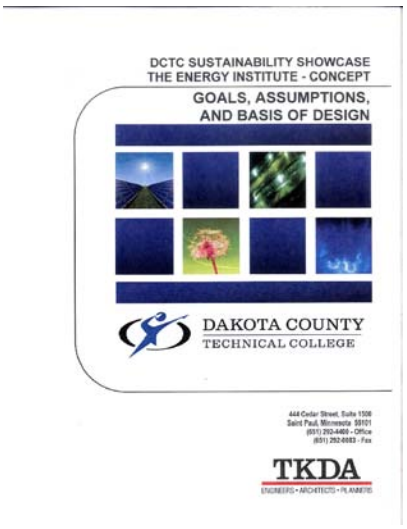
Energy Institute Building

Cost: Not yet determined

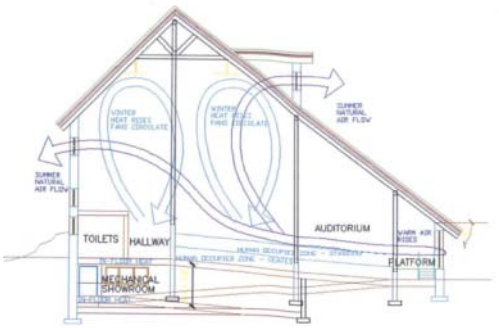
Funding: Partnerships with City, County, UMore Park, University of Minnesota, Dakota Electric and other private parties

Project at a Glance:

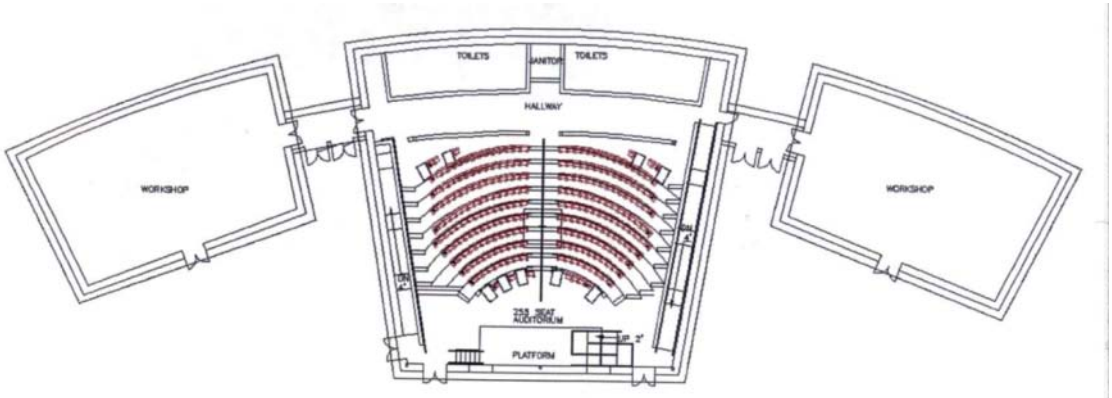
This project is the development of academic partnership with a focus on green technologies. There is a shared interest in creating a facility that could be used for sustainable technology training, demonstrating innovative student projects and advances in green technology, hosting invited guest speakers, holding sustainably-related community events, convening high level discussions, and perhaps creating fund raising opportunities for the campus and future environmentally-concerned educations initiatives.



The location, separate from the existing main building and adjacent to CR 42 and the UMore energy innovation park is intentional. The curriculum delivered at the Energy Institute will be directed at non-typical students, similar to many MnSCU customized training centers. Classes will occur during regular, evening and weekend hours requiring security separation from the main building. A pedestrian connection will be provided to the main building however the anticipated use will be low.



See appendix tab six for additional information



Communty Health and Wellness Center

Cost: Not yet determined

Funding: Partnerships with city and private wellness center providers

Funding Option: Student fee revenue bond (note different location as an addition in lieu of a free standing building if this funding option is pursued

Project at a Glance:

- This project will enhance teaching and learning at Dakota County Technical College. - Neuroscientists have recently uncovered a strong connection between exercise and cognitive function. Studies show that exercise promotes neurogenesis, the growth of new neurons in the brain. For years, it was believed that the number of neurons in the adult brain remained a fixed entity. In Spark, new research shows otherwise. Mice trained on running wheels produced twice as many new neurons as their non-running counterparts. A Japanese study showed that jogging 30 minutes a day for 12 weeks improved executive function (p.55). In a 2007 study, German researchers discovered that the learning rate in people improved 20% after exercise (p.45). [Spark: The Revolutionary New Science of Exercise and the Brain, John J. Ratey M.D.]
- Current fitness activities are limited to a weight room in renovated space. Facilities are not available for aerobic activities or court relates sports such as basketball or volleyball
- Promotes partnerships with community and business
- This location is a placeholder for a potential community partnership fitness center. Discussions regarding alternative location for health and wellness programs are indicated later in the building development section.
- The separate building location is necessary only if the fitness center develops in partnerships with the City of Rosemount and private fitness companies. The separate location will provide an identity that is part, but separate from the main campus building allowing non-student use and additional evening and weekend scheduling that does not impact the security of the main building.
- Existing pedestrian access to the center of the west parking lot will be extended to this site. It is not intended for covered pedestrian connections as the distance is not significant (750 feet) and the use of the facility is likely to be before or after most students other classes.

Transportation Partnerships Building

Cost: $8,000,0000

Funding: Capital Bonding

Project at a Glance:

- Project consolidates the Chrysler Training Academy with other transportation programs at DCTC. These include the GM Raytheon, GM Automotive Service Education Program (ASEP), Auto Body, District 917 transportation, Heavy Truck Technology, Automotive Technology, Railroad Conductor, Heavy Construction Equipment Mechanic and Truck Driving
- Project eliminates $723,000 of deferred maintenance through the sale of the current building
- Partnerships bring approximately 4000 students per year to DCTC at non-traditional class times. These students typically do not access the general classrooms
- Public access for automotive clinics will be provided by the proposed south vehicle access road
- Building location allows observation of decision driving range for test drives and training activities

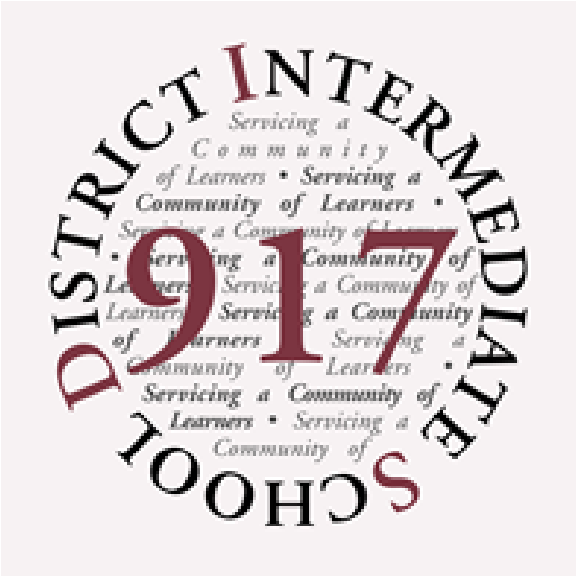
Consolidate District 917

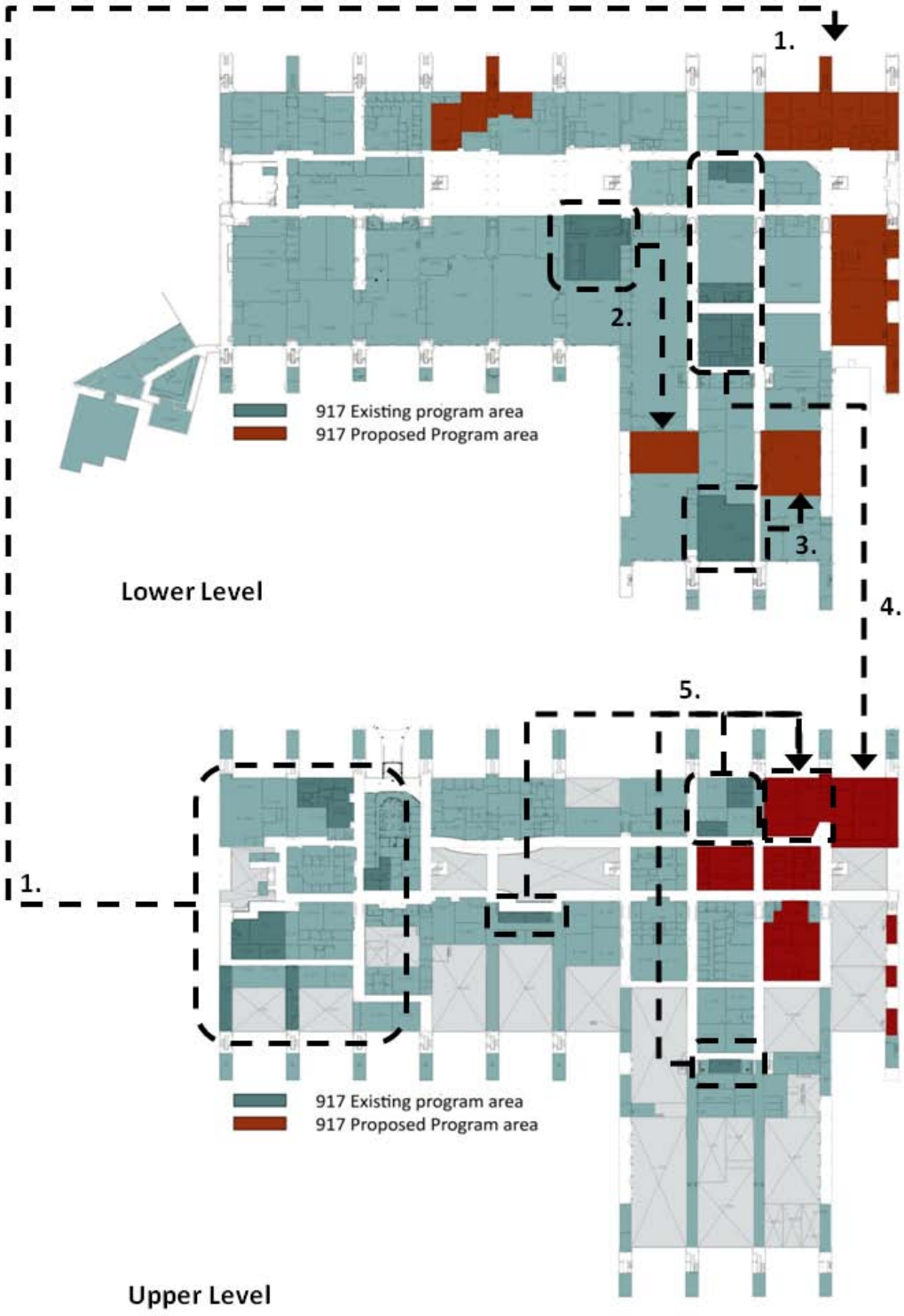
Cost: Several Small projects ranging from $250,000 to $500,000

Funding: Capital Operating and Partner school districts

Project at a Glance:

- Currently District 917 operates independently of DCTC programs. Locations are scattered and TESA programs are inaccessible with bus traffic on pedestrian access paths. Administrative components are remote from district functions and have no wayfinding component that distinguishes them from DCTC administration.
- District 917 transportation programs are proposed to move in the short-term transportation and emerging technologies project. These programs will be separate but adjacent to DCTC transportation programs. The 917 welding program shares facilities with DCTC welding. This will continue at a new location per the transportation and emerging technologies project.
- District 917 food service operates independently, adjacent to DCTC food service. Future Student Services and Dining projects should look for efficiencies in equipment and personnel.
- All other District 917 programs will be consolidated to the east end of the building.
  - Relocate District Administration and TESA programs.
  - Welding
  - 917 Trucks
  - Graphics and Network Technology – note head end
  - Miscellaneous programs




1.
2.
3.
4.
5.
917 Existing program area
917 Proposed Program area
Lower Level
1.
917 Existing program area
917 Proposed Program area
Upper Level

5.6 System Wide infrastructure:

Existing utilities are currently in place along CR 42 to support the additions and renovations proposed within this master facilities plan.

5.7 Energy Conservation and Sustainability:

Dakota County Technical College Green Campus Commitment Committees has initiated a comprehensive array of short-term and long-term projects to achieve our sustainability objectives. A primary goal of the campus is that all college construction projects achieve a LEED Silver Certification.

Integrating many of the same sustainability concepts, all state funded projects will require:

- Required to comply with Minnesota Sustainable Building Guidelines (MSBG) and (B3) Statute 16B.235
- Required to exceed State of Minnesota minimum energy code by 30%
- Required to consider Geothermal and Solar Energy Heating and Cooling systems Statute 16B.326
- Required to comply with Minnesota Energy Code MN Rule 7676
    - Note that minimum envelope and HVAC requirements are required to combine for an increase of 30% energy efficiency
    - Note that this rule does not allow heated parking structures
- Required to consider the use of MinnCor products Statute 16B.335
- Required to meet the Minnesota Sustainable Building 2030 (SB 2030) energy standards. Statute 216B.241 Subd 9
- Required to have a waste management and recycling program plan for construction phase
- Required to commit 1% of construction cost up to $100,000 to public artwork

Dakota County Technical College Master Plan 2010

Project Title	Brief Description	2010 cost (x$1000)	Projected 2012 cost (x$1000)	Projected 2014 cost (x$1000)	Projected 2016 cost (x$1000)	Projected long range cost	G.O. Bonds	HEAPR	Revnue Bonds	College	Municipal	Private/Grants	Other
Competition Baseball Facilities	Replace existing unusable field Primarily funded with grants	700								X		X	
Partneship In Higher Education Building HVAC	Primarily funded by City of Apple Valley	50								X	X	X	
Transportation and Emerging Technologies Renovation	Project vetoed in 2010.		7230	6900			X			X			
Partneship In Higher Education Building Classroom and Office Addition	Primarily funded by City of Apple Valley		50										
Renovate Truck Driving Building	Required for Chrysler lease extension		400							X	X	X	
On-Campus Solar and Wind Generation	Grid tied photovoltaic array and a series of 100 kw or less wind generators		3500							X		X	
HVAC Indoor Air Quality project (air handling units)			6890					X					
VAV energy retrofit Projects			2355					X					
Repair and upgrade surface and equipment for Decision Driving Course			910					X					
Repair Exterior envelope of Main Campus with Epoxy Resin Crack Fill			425					X					
Complete Lighting Controls Main Campus			450					X					
Energy Institute Building	Funding partnership with city/county/UofM/Private		100	200						X	X	X	
Site Stormwater Management	Phased Projects, sedimentation and detention		100	100					X	X			
Medical and Dental Assistant Renovation	Classroom Initiative Project			500			X			X			
Community Health and Wellness Center	Partnership may include revenue bond partial funds			2400					X	X	X	X	
Chrysler Building Renovation	Required for Chrysler Lease extension			1400			X			X		X	
Sustainable Design Studies renovation	Item 2, Long range projects Classroom Initiative Project			500			X			X		X	
Acquire District 917 property	Land Management item 1			NA			X			X			X

Project Title	Brief Description	2010 cost (x$1000)	Projected 2012 cost (x$1000)	Projected 2014 cost (x$1000)	Projected 2016 cost (x$1000)	Projected long range cost	G.O. Bonds	HEAPR	Revnue Bonds	College	Municipal	Private/Grants	Other
Consolidate District 917 programs	Phased Projects			300	400					X	X		
Roof Replacement at Performance Center and North Campus (So St Paul)				500				X					
Repair and Upgrade electrical Distribution Center and replace sub stations				775				X					
Child Care Building HVAC Upgrades				284				X					
Upgrades to facilities locks and hardware				1370				X					
Repair/Resurface Truck Driving Rodeo Grounds				675				X					
Replace all existing site lighting				935				X					
Replace sidewalks and curbs main campus				400				X					
Technical Sciences Addition and Center for New and Innovative Technologies Renovation	Item 5-6, Long range projects			*	11000		X			X		X	
Transportation Partnerships Building	Chysler, GM, and automotive clinic			*	8000		X			X		X	
Academic Renovations of vacated District 917 space				800	200					X			
Toilet Room Code upgrades					1455			X					
Upgrades and replacement of domestic water systems					900			X					
Demountable partition replacement					353			X					
Generator – power distribution					4042			X					
South Vehicular Circulation and parking lot renovation and reconfiguration	Phased Projects					2400			X	X			
Welding Shop Ventilation and Air Conditioning						1334		X					
Student Center Renovation and Addition	Item 4, Long range projects					12000	X			X			
Sustainable Design Studies Addition and Renovation	Item 1,2 Long range projects					9000	X			X		X	
Railroad Conductor outdoor lab expansion with light rail component	Extend track to decision driving range					TBD	X			X	X	X	
Classroom Additions	Placeholders for future needs					NA	X			X			
Subtotal Project Costs	* Indicated design funding in previous bonding cycle	**7230**	**22410**	**18039**	**26350**	**24734**							