

TEXAS TECH UNIVERSITY SYSTEM
Lubbock, Texas

Minutes

Board of Regents

November 17, 2022

Thursday, November 17, 2022.— The members of the Board of Regents of the Texas Tech University System convened at 9:02 am on Thursday, November 17, 2022, in the Regents Conference Room (104A), First Floor, System Building, 1508 Knoxville Avenue, Lubbock, Texas, with the following in attendance:

ATTENDANCE.—

Regents present in person were Arcilia Acosta; Hani Annabi, Student Regent; Cody Campbell; Ginger Kerrick Davis; Pat Gordon; Mark Griffin, Vice Chairman; J. Michael Lewis, Chairman; John Steinmetz; John Walker; and Dusty Womble.

The following officers and staff were present for all or a portion of the meeting: Dr. Tedd Mitchell, Chancellor, TTUS; Dr. Lawrence Schovanec, President, TTU; Dr. Richard Lange, President, TTUHSC El Paso; Dr. Lori Rice-Spearman, President, TTUHSC; Mr. Ronnie Hawkins, Jr., President, ASU; Dr. JuliAnn Mazachek, President, MSU; Mr. Eric Bentley, Vice Chancellor and General Counsel, TTUS; Mr. Keino McWhinney, Secretary of the Board and Special Advisor to the Chancellor, TTUS; Mrs. Penny Harkey, Interim CFO, TTUS and Vice President and Chief Financial Officer, TTUHSC; Mr. Billy Breedlove, Vice Chancellor for Facilities, Planning and Construction, TTUS; Mrs. Kim Turner, Chief Audit Executive, Office of Audit Services, TTUS; Mr. Patrick Kramer, Vice Chancellor for Institutional Advancement, TTUS; Mrs. Kristina Butts, Vice Chancellor for Federal Relations, TTUS; Ms. Martha Brown, Vice Chancellor for State Relations, TTUS; Mr. Tim Barrett, Chief Investment Officer, TTUS; Mr. Steve Sosland, Vice Chancellor for Leader and Culture Development, TTUS; Mr. Dailey Fuller, Chief of Staff, Chancellor's Office, TTUS; Mrs. Noel Sloan, Senior Vice President for Administration and Finance and Chief Financial Officer, TTU; Mrs. Angie Wright, Vice President for Finance and Administration, ASU; Dr. Beth Reissenweber, Vice President for Administration and Finance, MSU; Ms. Jessica Fisher, Interim Vice President for Finance and Administration, TTUHSC El Paso; Dr. Ronald Hendrick, Provost, TTU; Dr. Darrin D'Agostino, Provost and Chief Academic Officer, TTUHSC; Mr. Scott Lacefield, Senior Director of Communications, Chancellor's Office, TTUS; and Mrs. Christina Martinez, Assistant Secretary to the Board of Regents, TTUS.

- I. MEETING OF THE BOARD—CALL TO ORDER; CONVENE INTO OPEN SESSION OF THE BOARD.—At 9:02 am, Chairman Lewis announced a quorum present and called the meeting to order.

- I.A. INTRODUCTIONS AND RECOGNITIONS.—The Board continued in Open Session. Chairman Lewis called on Dr. Mitchell, Mr. Hawkins; Dr. Mazachek, Dr. Schovanec, Dr. Lange and Dr. Rice-Spearman to present their introductions and recognitions.

Chancellor Mitchell introduced Mr. James Mauldin.

President Mazachek recognized Dr. James Johnston.

President Schovanec recognized Dr. Martin Camacho; Dr. Tosha Dupras; Dr. Upe Flueckiger; and Dr. Jill Hernandez.

President Rice-Spearman recognized Dr. John Cheng; Mr. Brent Magers; and the School of Nursing and Carla Chapman and Pearl Merritt.

President Hawkins and President had no introductions or recognitions.

[NOTE: All introductions and recognitions for the November 17, 2022 Board of Regents meeting can be viewed in their entirety at the Board of Regents webpage under video archives.]

I.B. STUDENT GOVERNMENT ASSOCIATION REPORTS

I.B.1. REPORT BY STUDENT GOVERNMENT ASSOCIATION, ASU—Chairman Lewis called on Trevor Bills, president, Student Government Association, ASU, who presented a report from the Student Government Association. (NOTE: This report can be viewed in its entirety at the Board of Regents webpage under video archives.)

I.B.2. REPORT BY STUDENT GOVERNMENT ASSOCIATION, MSU—Chairman Lewis called on Gabi Pettijohn, president, Student Government Association, MSU, who presented a report from the Student Government Association. (NOTE: This report can be viewed in its entirety at the Board of Regents webpage under video archives.)

I.B.3. REPORT BY STUDENT GOVERNMENT ASSOCIATION, TTU—Chairman Lewis called on Austin Phillips, president, Student Government Association, TTU, who presented a report from the Student Government Association. (NOTE: This report can be viewed in its entirety at the Board of Regents webpage under video archives.)

I.B.4. REPORT BY STUDENT GOVERNMENT ASSOCIATION, TTUHSC—Chairman Lewis called on Brianna Mendoza, president, Student Government Association, TTUHSC, who presented a report from the Student Government Association.

(NOTE: This report can be viewed in its entirety at the Board of Regents webpage under video archives.)

- I.B.5. REPORT BY STUDENT GOVERNMENT ASSOCIATION, TTUHSC El Paso.—Chairman Lewis called on Andre Prieto, vice president of student wellness, Student Government Association, TTUHSC El Paso, who presented a report from the Student Government Association. (NOTE: This report can be viewed in its entirety at the Board of Regents webpage under video archives.)

II. RECESS—The Meeting of the Board was recessed at 9:52 am.

III. MEETING OF STANDING COMMITTEES.—Committee meetings took place sequentially beginning at 9:53 am on Thursday, November 17, 2022.

III.A. FINANCE AND INVESTMENTS COMMITTEE

The Finance and Investments Committee, presided by Committee Chair John Walker and Vice Chair Cody Campbell and composed by all nine voting members of the Board of Regents, met in open session on November 17, 2022 at 9:53 am to consider and act on the items as listed below. Unless otherwise indicated, the actions set forth in the Minute Orders that follow were considered and approved by the Finance and Investments Committee in open session and without objection by the Board of Regents of the Texas Tech University System.

- III.A.1. TTU: Authorize president to execute a contract extension with SIDEARM Sports.—The Board authorized the president, or his designee, to enter negotiations and execute a contract extension with SIDEARM Sports (“SIDEARM”) for the operation of Athletics’ online service platform, mobile applications, and related services.

The services are provided by SIDEARM, a wholly owned subsidiary of Learfield IMG College, pursuant to Learfield’s rights, granted through Red Raider Sports Properties, LLC under the Multi-Media Rights Agreement (“MMRA”) dated effective July 1, 2017, which is set to expire June 30, 2027. The 2017 MMRA was approved by the Board of Regents on June 30, 2017.

The proposed SIDEARM contract extension will include additional services, such as, an enhanced mobile application and integration between the official site and the mobile app. The agreement will continue the longstanding relationship between TTU Athletics and SIDEARM Sports.

Term and termination. The current SIDEARM contract is set to expire June 30, 2023, and the proposed SIDEARM contract extension will align with the 2017 MMRA and expire June 30, 2027. The contract does not allow TTU to terminate without cause.

Cost. The annual estimated fees for the extension are as follows:

2022-23 Annual Fee*: \$80,000
2023-24 Annual Fee: \$114,000
2024-25 Annual Fee: \$116,000
2025-26 Annual Fee: \$118,000
2026-27 Annual Fee: \$120,000

*2022-23 honors the current contract pricing and includes prorated fees for services for the remaining period through 06/30/2023.

Additionally, TTU will receive revenue as follows:

80% of auction revenue

90% of event registration/forms revenue

70% of experience marketplace revenue through VenueNext

- III.A.2. TTUHSC El Paso: Authorization to execute a contract with Agfa HealthCare Corporation to provide PACS Enterprise Imaging Solution for the Department of Clinical Informatics.—The Board authorized the president, or his designee, to approve a Picture Archiving and Communication System (“PACS”) Enterprise Imaging Solution services agreement with Agfa HealthCare Corporation.

Texas Tech University Health Sciences Center at El Paso (“TTUHSC El Paso”) initiated a Request for Proposal and subsequent activities for a PACS Enterprise Imaging Solution. Request for Proposal 774-156578496 was sent out and posted as a formal bid on April 14, 2022, with bids due on May 16, 2022.

Agfa HealthCare Corporation was identified as the most qualified vendor. They will implement and maintain an enterprise imaging solution that will unify medical imaging from several sources into a single vendor neutral archive (“VNA”) and enable universal access to various images across the enterprise to facilitate streamlined patient care and promote growth opportunities across the campus in clinical, operational, research, and teaching domains.

Implementation shall enable expansion of existing imaging and interpretation services offered internally, enable teleradiology imaging, enable future expansion into digital pathology, and support point-of-care clinical encounters-based imaging services.

TTUHSC El Paso will contract with Agfa HealthCare Corporation to provide a PACS Enterprise Imaging Solution beginning January 1, 2023. It is fully anticipated that the contract term will be five years and the estimated total contract expense value will be \$1,646,448.94 when finalized, with an initial Year 1 in the amount of \$1,229,973.90 and approximately \$104,118.76 annually.

- III.A.3. TTUHSC El Paso: Approve reallocation of funding authorization for TTUHSC El Paso Senate Bill 52 project.—The Board approved the reallocation of \$59,897,111 previously authorized bonding authority for the construction of a dental school building at Texas Tech University Health Sciences Center at El Paso (“TTUHSC El Paso”) to instead be used for the construction of a clinical sciences building near the main TTUHSC El Paso campus.

During third special session, the 87th Legislature passed and the Governor signed Senate Bill 52 relating to issuance of revenue bonds to fund capital projects at institutions of higher education, including authorization for the Texas Tech System Board of Regents to issue \$59,897,111 of bonds for construction of a dental school building codified under Texas Education Code Section 55.1798.

A feasibility study was completed to determine the cost of construction for a new Oral and Medical Comprehensive Health Care Center. Based on the probable costs for the new facility it has been determined that without full funding for the facility the best investment would be to reallocate the funding for the following project:

Construction of a Clinical Sciences Building – \$59,897,111.

The proposed reallocation of funds, consistent with Texas Education Code Section 55.1798(e), will partially fund the construction of a new Clinical Sciences Building located on the northern side of campus. The multi-story clinic will be constructed on an approximate 6.09 acre lot, which is currently being negotiated for purchase. Preliminary schematic design for the facility will be consistent to the existing 173,550 square foot facility with clinics in internal medicine, neurology, OB/GYN, ophthalmology, orthopedics, surgery, etc. The facility will

compromise of the following features for general medical and several specialties clinics:

- 1) Examination/ procedure rooms
- 2) Support areas for the clinical operations (nurses stations, triage/ vitals, laboratory support, medicine storage, clinical supply rooms, waiting areas, and other support spaces)
- 3) Administration, clinical providers, clinical support offices and touchdown spaces
- 4) Resident touchdown spaces and classroom areas
- 5) Building support rooms (IT, mechanical, electrical, receiving, etc.)
- 6) Other support areas (restrooms, break areas, student study areas, etc.)

The new Clinical Sciences Building has been the number two priority on TTUHSC El Paso's Master Plan (MP1) for the past several years and will replace the existing clinical facility located near campus at 4800 Alberta Avenue built in 1989. The balance of this construction project will be funded with local institutional funds.

If authorization for the above reallocation is approved, notice will be given to the Texas Higher Education Coordinating Board and approval from the Office of the Governor and the Legislative Budget Board will be requested as required by Senate Bill 52.

- III.A.4. TTUS: Approve amendments to *Regents' Rules*, Chapter 01 and 09, and addition of new mission driven Investment Policy Statement.—The Board adopted amendments to *Regents' Rules* Chapter 01 (Bylaws) and Chapter 09 (Investments & Endowments) and adopted a new mission driven Investment Policy Statement.

Various amendments were proposed related to providing additional investment flexibility to component institutions through the creation of a new *Mission Driven* Investment Fund. Any amendment to the *Regents' Rules* or a Board Policy Statement must be approved by the full Board in accordance with Section 01.08, *Regents' Rules*.

SUMMARY OF THE PROPOSED CHANGES TO CHAPTERS 01 and 09 *REGENTS' RULES* AND THE NEW MISSION DRIVEN INVESTMENT POLICY STATEMENT:

Chapter 01 – Bylaws

- Editing language in Section 01.03.c., *Regents' Rules* to add the new Mission Driven Investment Fund as a recognized Investment Policy Statement.

Chapter 09 -- Investments and Endowments

- Updated list of investment programs from two to three to reflect addition of the new Mission Driven Investment Fund (“MDIF”) and clarify the purpose of this new fund.
- Provide definition of the MDIF as “the investment vehicle for all approved mission driven investments” and add language outline that the policies for the investment of funds in the MDIF shall be those outlined in the Investment Policy Statement for the MDIF.

New Investment Policy Statements

- New Mission Driven Investment Fund (“MDIF”): This is an entirely new policy statement. The investment of funds for the MDIF are focused on advancing the overall mission of the institution as the primary objective with returns being a secondary consideration.
- This new policy statement defines the roles of the Board of Regents, Vice Chancellor and Chief Financial Officer, and MDIF Advisory Committee. It also outlines all relevant administrative procedures including approvals, reporting cash deposits, spending policy, distributions, management fees, and conflict of interest.
- The policy establishes capital limits based on the source of funds: (1) institutional capital with a maximum of \$150,000 per year for each component institution or .015% of the Institutions’ operating budget (with a maximum cumulative commitment of \$1 million in aggregate per institution); and (2) Donor Directed Capital, with approval from the MDIF advisory committee, having a \$150,000 limitation per donor.

The TTUS Chapter 01 and 09 amendments for addition of new Mission Driven Investment Fund (MDIF) and TTUS Investment Policy Statement: Mission Driven Investment Fund are presented herewith as Attachment No. 1 and Attachment No. 2, respectively.

- III.A.5. TTUS: Investment Performance Update.—The Board accepted an update on the performance of TTUS investments, included herewith as Attachment No. 3 (TTUS Investment Performance Update).
- III.A.6. TTUS: Report on TTUS Endowments.—The Board accepted an update on the TTUS Total Endowment, as of August 31, 2022, included herewith as Attachment No. 4 (TTUS Report on Endowments).

III.B. ACADEMIC, CLINICAL AND STUDENT AFFAIRS COMMITTEE

The Academic, Clinical, and Student Affairs Committee, presided by Committee Chair Ginger Kerrick Davis and Vice Chair Pat Gordon and composed by all nine voting members of the Board of Regents, met in open session on November 17, 2022 at 10:24 am to consider and act on the items as listed below. Unless otherwise indicated, the actions set forth in the Minute Orders that follow were considered and approved by the Academic, Clinical, and Student Affairs Committee in open session and without objection by the Board of Regents of the Texas Tech University System.

- III.B.1. TTU: Approve appointments with tenure.—The Board approved the granting of tenure for the following faculty of Texas Tech University concurrently with their respective appointments.

Leehu Loon, MLA (terminal degree for the field), appointed effective August 1, 2022, as a professor and Chairperson of the Department of Landscape Architecture, Davis College of Agricultural Sciences and Natural Resources. Prof. Loon comes to TTU from the University of Oklahoma where he was a tenured professor and Associate Dean of Administration in the Christopher C. Gibbs College of Architecture.

Jill Graper Hernandez, Ph.D., appointed effective September 1, 2022, as a professor and Dean of the Honors College. Dr. Hernandez comes to TTU from Central Washington University, where she was a tenured professor of Philosophy and Dean of the College of Arts & Humanities.

- III.B.2. TTU: Approve conferral of an honorary degree.—The Board approved the conferral of an honorary Bachelor of Science in Economics, Honoris causa degree upon John A. Sellers.

John Sellers is no stranger to Texas Tech University (“TTU”), and his name is synonymous with being a Red Raider. Following his graduation from Canyon High School, he enrolled at Texas Tech University and majored in economics while also being a student athlete. The untimely passing of his mother during his sophomore year resulted in him leaving Texas Tech in his junior year to be involved in small business. Despite these challenges, John has excelled in the business world and his business acumen is widely recognized. His generosity to Texas Tech is tremendous and includes providing a \$1 million endowed scholarship to the Department of Economics and a recent \$11 million gift to TTU Athletics. Further, the 28 letters of support included in the information paints a vivid picture of John’s character; one that exemplifies friendship, dedication, generosity and loyalty.

This nomination is brought forward in accordance with university policies and *Regents’ Rules* 12.04, which requires that the Board receive advance notice of candidates for an honorary degree who are scheduled to be considered for approval. I wholeheartedly support moving forward the nomination for your consideration at the November 17 Board of Regents meeting.

Advance notice of the proposed honorary degree was provided to the members of the Board of Regents as required by Section 12.04.06, *Regent’s Rules*.

- III.B.3. TTU: Approve Bachelor of Science (B.S.) Degree with a major in Applied Personal Finance.—The Board approved the new degree program, Bachelor of Science (“B.S.”) degree with a major in Applied Personal Finance and authorized submission, by the Office of the Provost and Senior Vice President for Academic Affairs, to the Texas Higher Education Coordinating Board seeking its certification of such a program and to the Southern Association of Colleges and Schools for acknowledgement of a new degree program.

The Bachelor of Science in Applied Personal Finance is a highly flexible degree that can be personalized to apply to many different career opportunities, which will be offered online, either synchronously and/or asynchronously.

	Year 1	Year 2	Year 3	Year 4	Year 5
Total New Students	12	15	18	23	28
Attrition*	2	2	2	2	2
Cumulative Headcount	10	25	40	59	81
FTSE**	11	15	17	21	23
Graduates	0	1	2	4	5

* Attrition applied at the beginning of the following year.

**Full time student equivalent for the academic year in the major.

In the table below, Personnel includes salaries for an additional one lecturer and two adjuncts per year (salaries for existing faculty who teach existing courses that will be used in the APF program are not included); Supplies and Materials reflect estimates for Xerox copies, office supplies, promotional materials, and two computers; and Other reflects costs associated with professional development.

Five-Year Costs		Five-Year Funding	
Personnel (administration and salaries)	\$305,202	Reallocated Funds	\$0
Facilities and Equipment	\$0	Anticipated New Formula Funding	\$67,241
Supplies and Materials	\$14,000	Special Item Funding	\$0
Other	\$5,000	Tuition and fees	\$259,500
Total Costs	\$324,202	Total Funding	\$326,741

III.C. AUDIT COMMITTEE

The Audit Committee, presided by Committee Chair John Steinmetz and Vice Chair Arcilia Acosta and composed by all nine voting members of the Board of Regents, met in open session on November 17, 2022 at 10:28 am to consider and act on the items as listed below. Unless otherwise indicated, the actions set forth in the Minute Orders that follow were considered and approved by the Audit Committee in open session and without objection by the Board of Regents of the Texas Tech University System.

- III.C.1. TTUS: Report on audits.—The Board accepted a report on the System’s audit projects, included herewith as Attachment No. 5 (TTUS Office of Audit Services 2022 Annual Report).

III.D. FACILITIES COMMITTEE

The Facilities Committee, presided by Committee Chair Dusty Womble and Vice Chair Mark Griffin and composed by all nine voting members of the Board of Regents, met in open session on November 17, 2022 at 10:35 am to consider and act on the items as listed below. Unless otherwise indicated, the actions set forth in the Minute Orders that follow were considered and approved by the Facilities Committee in open session and without objection by the Board of Regents of the Texas Tech University System.

- III.D.1. ASU: Authorize expenditures of the Carr Hall Renovation project for Design-Build Stage II design services and GMP for Bid Package 1 – Selective Demolition and Early Equipment Package.—The Board authorized the chancellor, or the chancellor’s designee, to (i) approve expenditures of \$1,928,839 for a total of \$2,096,033 for the Carr Hall Renovation project, with an anticipated project budget of \$6,800,000; (ii) authorize and amend the Design-Build Agreement for Stage II design services; (iii) accept the Guaranteed Maximum Price (“GMP”) for Bid Package 1 – Selective Demolition and Early Equipment Package; and (iv) amend the Design-Build Agreement for execution of Bid Package 1 – Selective Demolition and Early Equipment Package. The total expenditures of \$2,096,033, which includes the previously approved \$167,194 will be funded with Institutional Cash and Higher Education Emergency Relief Fund (“HEERF”) funds.

The Board reasonably expects to incur debt obligations for the design, planning and construction of the project, and all or a portion of the debt proceeds are reasonably expected to be used to reimburse the System for project expenditures previously expended. The maximum principal amount of debt obligations to be issued for the Project is \$6,800,000.

The Board further authorized the president to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

This approval grants authority to amend the Design-Build Agreement for Stage II design services consisting of Design Development (“DD”), Construction Documents (“CD”), Construction Administration (“CA”) Phases, and to provide a Statement of Probable Cost. Also, amend said Agreement to accept the GMP for Bid Package 1 – Selective Demolition and Early Equipment Package.

The project will deliver a complete interior renovation of the Carr Hall Residence building, which is a 20,960 GSF, two-story structure built in 1959. The project will modernize the campus residential facility with an anticipated 73 bed count. The scope of work will include restructuring the existing dorm rooms to meet the current housing trends, with code compliant layouts and fixture counts. Both the lobby and common spaces will be addressed in this renovation. A major part of this renovation involves the HVAC, plumbing, and electrical. New mechanical distribution and equipment will be provided. Currently, the HVAC system utilizes a common return (via main corridors). Due to air quality concerns during the COVID-19 pandemic, Carr Hall has remained off-line. A new HVAC system will be utilized. This will isolate return and supply air cycles to each suite – creating a healthy building. New plumbing distribution and fixtures will be provided throughout. New electrical distribution and switchgear, along with network cabling and technology upgrades will be provided. Critical life safety systems: fire alarm, fire suppression and building controls will be installed. New furniture, fixtures, and equipment will be provided.

The ASU Approve expenditures of the Carr Hall Renovation project for Design-Build Stage II design services and GMP for Bid Package 1 – Selective Demolition and Early Equipment Package PowerPoint is included herewith as Attachment No. 6.

- III.D.2. ASU: Authorize expenditures of the Elta Joyce Murphey Auditorium Renovation project for Design Professional Stage I services.—The Board approved the concept for the project and authorized the chancellor, or the chancellor’s designee, to (i) approve expenditures of \$195,596 in order to provide planning and design services for the Elta Joyce Murphey Auditorium Renovation project, with an anticipated project budget of \$6,000,000; (ii) waive the use of a Construction Manager Agent (“CMA”); (iii) waive the board directed fee for landscape enhancements; (iv) waive the board directed fee for public art; and (v) award the Design Professional Agreement and authorize Stage I design services. The expenditures will be funded through the Revenue Finance System (“RFS”) repaid with gifts and Higher Education Funds (“HEF”).

The Board reasonably expects to incur debt obligations for the design, planning and construction of the project, and all or a portion of the debt proceeds are reasonably expected to be used to reimburse the System for project expenditures previously expended. The maximum principal amount of debt obligations to be issued for the Project is \$6,000,000.

The Board further authorized the president to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

This approval grants authorization to proceed with the Elta Joyce Murphey Auditorium Renovation project, with an anticipated project budget of \$6,000,000. Awards a Design Professional Agreement and authorizes Stage I design services to move forward on the project's vision through the programming and schematic design phases, provide a Statement of Probable Cost, and project schedule. Also, grants approval to waive the use of a Construction Manager Agent ("CMA"); waive the board directed fee for landscape enhancements; and waive the board directed fee for public art.

Due to the university's immediate need for the space, the design professional was selected from the university's approved design professional pre-qualification list. The firm PBK Architects, Inc. was selected based upon their specific expertise in the area of auditorium design, and their extensive knowledge of the university's infrastructure.

The project will provide life/safety and accessibility code review and analysis, programming, and design for the existing 8,205 SF, 400+ seat auditorium theatre with support spaces located inside the Sol Mayer Administration Building built in 1947. The proposed renovation project will renovate 5,679 SF of existing space, excluding the stage proper and below stage areas (dressing rooms, restrooms, etc.). The building will be expanded by approximately 598 GSF to accommodate additional restroom facilities for theater occupancy, accessibility, and plumbing code compliance. The lobby will be updated with new finishes, and lighting. The auditorium will be remodeled for accessibility compliance. The main entrance to the auditorium will be reworked to include new steps, and a TAS compliant ramp. Additional electrical, mechanical, and plumbing distribution and fixtures will be provided.

On June 14, 2022, ASU President Hawkins announced a major gift from local philanthropist and arts enthusiast Elta Joyce McAfee to help fund the restoration and renovation of ASU's University Auditorium, which will be re-named the Elta Joyce Murphey Auditorium. The auditorium is being commemorated under McAfee's given name of Murphey to honor her contribution and her family.

The ASU Authorize expenditures of the Elta Joyce Murphey Auditorium Renovation project for Design Professional Stage I design services PowerPoint is included herewith as Attachment No. 7.

- III.D.3. ASU: Authorize expenditures of the Central Plant Renovations and Additions project for Design-Build Stage I design services and Pre-construction services.—The Board approved the concept for the project and authorized the chancellor, or the chancellor’s designee, to (i) authorize initiation of the Central Plant Renovations and Additions project through the Capital Construction Assistance Projects; (ii) approve expenditures of \$1,003,550 in order to provide planning and design services for the Central Plant Renovations and Additions project, with an anticipated project budget of \$36,000,000; (iii) waive the board directed fee for landscape enhancements; (iv) waive the board directed fee for public art; (v) award a Design-Build Agreement; and (vi) authorize Stage I design services and pre-construction services. The expenditures will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects (“CCAP”) Legislative appropriations.

The Board reasonably expects to incur debt obligations for the design, planning and construction of the project, and all or a portion of the debt proceeds are reasonably expected to be used to reimburse the System for project expenditures previously expended. The maximum principal amount of debt obligations to be issued for the Project is \$36,000,000.

The Board further authorized the president to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

This approval grants authorization to proceed with the Central Plant Renovations and Additions project through the Capital Construction Assistance Projects with an anticipated total budget of \$36,000,000. Awards a Design-Build Agreement and authorizes Stage I design services to move forward on the project’s vision through the programming and schematic design phases, provide a Statement of Probable Cost, and project schedule. Authorizes pre-construction activities associated with the planning and design process, i.e., project evaluation; site analysis; constructability review; value engineering; scheduling; cost control; and development of a Guaranteed Maximum Price (“GMP”). Also, grants approval to waive the board directed fee for landscape enhancements; and waive the board directed fee for public art.

The project will deliver:

- The existing plant will receive new chilled water & heating water equipment, variable speed centrifugal chiller with chilled water pumps, gas-fired boilers, heating water pumps, and condenser fluid pumps, upgrade electrical equipment, and replace the existing evaporative cooling towers with more efficient water & energy cooling towers.
- Piping will be configured to obtain more flexibility & redundancy between the chillers, chilled water pumps & condensing fluid pumps.
- The Building Automation System will be upgraded.
- The necessity for a new supplemental utility plant is being analyzed based on supply and demand models to resolve flow issues on the expanding west end of campus.

The ASU Authorize expenditures of the Central Plant Renovations and Additions project for Design-Build Stage I design services and Pre-construction services PowerPoint is included herewith as Attachment No. 8

III.D.4. MSU: Authorize expenditures of the Bolin Hall Renovation and Expansion project for Design-Build Stage I design services and Pre-construction services.—The Board approved the concept for the project and authorized the chancellor, or the chancellor’s designee, to (i) authorize initiation of the Bolin Hall Renovation and Expansion project through the Capital Construction Assistance Projects; (ii) approve expenditures of \$1,213,203 in order to provide planning and design services for the Bolin Hall Renovation and Expansion project, with an anticipated project budget of \$38,656,000; (iii) award a Design-Build Agreement; and (iv) authorize Stage I design services and pre-construction services. The expenditures will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects (“CCAP”) Legislative appropriations.

The Board reasonably expects to incur debt obligations for the design, planning and construction of the project, and all or a portion of the debt proceeds are reasonably expected to be used to reimburse the System for project expenditures previously expended. The maximum principal amount of debt obligations to be issued for the Project is \$38,656,000.

The Board further authorized the president to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

This approval grants authorization to proceed with the Bolin Hall Renovation and Expansion project through the Capital Construction Assistance Projects with an anticipated total budget of \$38,656,000. Awards a Design-Build Agreement and authorizes Stage I design services to move forward on the project's vision through the programming and schematic design phases, provide a Statement of Probable Cost, and project schedule. Authorizes pre-construction activities associated with the planning and design process, i.e., project evaluation; site analysis; constructability review; value engineering; scheduling; cost control; and development of a Guaranteed Maximum Price ("GMP").

Bolin Hall, built in 1966 is a three-story facility containing a total of 91,736 GSF. The building consists of instructional spaces for Geosciences, Biology, Math, and Chemistry, computer labs, ancillary storage spaces, administrative spaces, and a greenhouse. The Bolin Hall Renovation and Expansion project will include a partial renovation of approximately 45,000 to 55,000 GSF of the existing building and provide approximately 15,000 to 21,000 GSF of new space to address the programmatic needs of the sciences and math departments.

Upon completion of a comprehensive Facility Assessment Report, Texas Tech University System and Midwestern State University will collectively make informed 'best value' decisions regarding the prioritized scope of the Work. In addition, the report will identify and disclose discovered building, life/safety and energy code issues that must be addressed relative to current code compliance and the instructional needs of the end users and key stakeholders. The finalized scope will incorporate educational concepts that facilitate student interaction, peer-to-peer learning, and open collaboration. It is critical to provide renovation of classrooms and lecture hall spaces that are appropriate for the class sizes and instructional pedagogies the university intends to implement, inclusive of building systems replacements and enhancements to facilitate spaces that create high quality learning environments. Outdated and underutilized space will be evaluated and re-programmed to maximize utilization within the facility and academic program needs.

A significant part of the project's scope is to upgrade, replace, and retro-commission the existing mechanical, electrical, and plumbing systems to gain energy efficiencies as well as comply with the current energy and building codes. This will include an addition to a recently installed partial fire sprinkler system,

replacement of the pneumatic control system with Andover digital controls, replacement/retrofit of air handling equipment, replacement of exhaust fans, upgrade of electrical switchgear and transformers, replacement of the existing network system, a new temperature control system for the greenhouse, and accessibility upgrades to the restroom facilities in the building.

The MSU Authorize expenditures of the Bolin Hall Renovation and Expansion project for Design-Build Stage I design services and Pre-construction services PowerPoint is included herewith as Attachment No. 9.

- III.D.5. MSU: Approve exception to *Regents' Rules* for the Sikes Lake Dredging project.—The Board approved the concept for the project and authorized the chancellor, or the chancellor's designee, to (i) approve exception to the *Regents' Rules*, Section 08.01.3, in order for the project to be managed by the Midwestern State University Facilities Services in lieu of TTU System Facilities Planning and Construction office; (ii) waive the use of a Construction Manager-Agent ("CMA"); (iii) waive the board directed fee for landscape enhancements; (iv) waive the Board directed fee for public art; and (v) upon scope analysis and available funding for the project, report the project's anticipated budget to the Board of Regents.

The Board further authorized the president, or the president's designee, to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

This approval grants authorization to proceed with scoping documents and funding opportunities for the Sikes Lake Dredging project and to grant exception to the *Regents' Rules*, Section 08.01.3, in order for the project to be managed by the Midwestern State University Facilities Services in lieu of TTU System Facilities Planning and Construction office. The Board also grants approval to waive the use of a Construction Manager Agent ("CMA"); waive the board directed fee for landscape enhancements; and waive the board directed fee for public art.

The proposed project will dredge Sikes Lake, which is a 21-acre campus lake to remove 20-years of accumulated silt. The process will help improve and preserve the ecosystems in the lake. Removing dead plants and vegetation, trash, silt accumulation and other debris, dredging helps improve water quality, support wildlife, and promote student & faculty research.

The MSU Approve exception to *Regents' Rules* for the Sikes Lake Dredging project PowerPoint is included herewith as Attachment 10.

- III.D.6. TTU: Approve exception to *Regents' Rules* and the total project budget for the Science Building Renovation project.—The Board (i) authorized initiation of the Science Building Renovation project through the Capital Construction Assistance Projects; (ii) approved exception to the *Regents' Rules*, Section 08.01.3, in order for the project to be managed by the Texas Tech University Operations Division in lieu of TTU System Facilities Planning and Construction office; (iii) waived the use of a Construction Manager-Agent (“CMA”); (iv) waived the board directed fee for landscape enhancements; (v) waived the Board directed fee for public art; (vi) reported the project to the Board of Regents at regular meetings; (vii) reported the project to the Texas Higher Education Coordinating Board (“THECB”); and (viii) authorized a total project budget of \$16,181,000 for the Science Building Renovation project. The project will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects (“CCAP”) Legislative appropriations.

The Board reasonably expects to incur debt obligations for the design, planning and construction of the project, and all or a portion of the debt proceeds are reasonably expected to be used to reimburse the System for project expenditures previously expended. The maximum principal amount of debt obligations to be issued for the Project is \$16,181,000.

The Board further authorized the president, or the president’s designee, to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

The renovation project will involve work in an occupied building with multiple contractors working under various approved contracts available to the university. The scope of the work is anticipated to extend over a 3 to 4-year period. The project includes the following: (1) HVAC and building controls upgrades; (2) abate and replace flooring; (3) exterior building repairs; (4) accessibility upgrades; (5) renovate machine & technology shops; (6) renovate classrooms and class labs; (7) elevator and machine room upgrades; (8) electrical upgrades and emergency generator; and (9) life safety upgrades (fire sprinkler, fire alarms, etc.)

The component institution will explore the possibility of incorporating existing and/or surplus furniture, fixtures, and equipment into the project.

In May 2022, the Board of Regents acknowledged that on April 19, 2022, the chair granted an exigent circumstances approval that authorized use of the Revenue Finance System for the individual total project budgets of the Capital Construction Assistance Projects for TTU System institutions.

The TTU Approve exception to *Regents' Rules* and the total project budget for the Science Building Renovation project PowerPoint is included herewith as Attachment No. 11.

- III.D.7. TTU: Approve honorary naming of the Athletics' Track & Field Administrative Offices – "Corky Oglesby Track & Field."—The Board approved the Texas Tech University Department of Athletics' Track & Field Offices be named the "Corky Oglesby Track & Field," in honor of Corky Oglesby's legacy and in recognition of multiple donations made in his honor. Signage for the space will specify the approved name.

For over 40 years, Corky Oglesby's name was synonymous with Texas Tech Athletics. Corky was an assistant men's basketball coach under both Bob Bass and Gerald Myers (1969-1975), before spending 20 years as the head men's track and field coach (1975-1995). He then transitioned to a director of special project's role in the Red Raider Club from 1997-2017, a position he remained active in up until his passing. The contributions that Corky made to Texas Tech University in those 40+ years and the relationships he formed on our behalf are immeasurable. His impact and legacy are definitely a part of our many program's successes today.

The TTU Approve honorary naming of the Athletics' Track & Field Administrative Offices – "Corky Oglesby Track & Field" PowerPoint is included herewith as Attachment No. 12.

- III.D.8. TTUHSC: Authorize expenditures of the Laboratory Animal Resources Center ("LARC") Expansion project for Design Professional Stage I design services.—The Board approved the concept for the project and authorized the chancellor, or the chancellor's designee, to (i) authorize initiation of the Laboratory Animal Resources Center ("LARC") project through the Capital Construction Assistance Projects; (ii) approve expenditures of \$340,839 in order to provide planning and design services for the Laboratory Animal Resources Center ("LARC") project, with an anticipated project budget of \$15,000,000; (iii) waive the use

of a Construction Manager Agent (“CMA”); (iv) waive the board directed fee for landscape enhancements; (v) waive the board directed fee for public art; and (vi) award the Design Professional Agreement and authorize Stage I design services. The expenditures will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects (“CCAP”) Legislative appropriations.

The Board reasonably expects to incur debt obligations for the design, planning and construction of the project, and all or a portion of the debt proceeds are reasonably expected to be used to reimburse the System for project expenditures previously expended. The maximum principal amount of debt obligations to be issued for the Project is \$15,000,000.

The Board further authorized the president to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

This approval grants authorization to proceed with the Laboratory Animal Resources Center (“LARC”) Expansion project through the Capital Construction Assistance Projects with an anticipated total budget of \$15,000,000. Awards a Design Professional Agreement and authorizes Stage I design services to move forward on the project’s vision through the programming and schematic design phases, provide a Statement of Probable Cost, and project schedule. Also, grants approval to waive the use of a Construction Manager Agent (“CMA”); waive the board directed fee for landscape enhancements; and waive the board directed fee for public art.

The Laboratory Animal Resources Center (“LARC”) operates and maintains the TTUHSC animal facilities in Lubbock, under the direct supervision of the Institutional Veterinarian. Through these operations the LARC provides for the procurement, housing, health, and welfare of research animals housed in TTUHSC facilities. The LARC, in partnership with the Institutional Animal Care & Use Committee (“IACUC”), monitors the use of research animals to ensure compliance with applicable Federal, State, and Local laws and guidelines as well as Institutional Policy. Finally, the LARC provides technical assistance, advice and education to faculty, research staff and students in order to facilitate research and academic goals while maintaining regulatory compliance.

The intent of this project is to expand the Lubbock LARC space to meet the future needs of the TTUHSC research community

and to aid in expansion and elevation of Biomedical Research at TTUHSC. The project will incorporate innovative technologies and modern built-in equipment necessary for the future needs of the principal investigators. An approximate 12,600 GSF expansion will create a facility with complete bio-exclusion (barrier) from the existing LARC. This separation will require a decontamination room and bulk autoclave be installed separating the two spaces but allowing for sterilization/decontamination of consumables and equipment entering the new space. Existing rooms along the east side of the hallway may be incorporated into the new space.

The TTU Authorize expenditures of the Laboratory Animal Resources Center (“LARC”) Expansion project for Design Professional Stage I design services PowerPoint is included herewith as Attachment No. 13.

- III.D.9. TTUHSC: Approve additional project scope, budget increase, and contract amendments for the Dorothy and Todd Aaron Medical Sciences Building Addition and Renovation project on the Midland College campus for the TTUHSC School of Health Professions Physician Assistant program.—The Board approved the additional project scope and authorized the chancellor or the chancellor’s designee to:
- (i) authorize initiation of the additional project scope for the Dorothy and Todd Aaron Medical Sciences Building Addition and Renovation project through the Capital Construction Assistance Projects;
 - (ii) approve expenditures of \$2,500,000 in order to provide planning and design services for a new building and renovation within the existing building, and construct a new road, with an anticipated budget increase of \$18,700,000 for a total project budget of \$48,700,000;
 - (iii) waive the board directed fee for landscape enhancements;
 - (iv) waive the board directed fee for public art;
 - (v) amend the Design Professional (“DP”) Agreement for Stage I design services associated with the new building construction and existing building renovation scope;
 - (vi) amend the Construction Manager-Agent (“CMA”) Agreement for additional services associated with the construction of a new road, new building, and renovation within the existing building;
 - (vii) accept the amended Guaranteed Maximum Price (“GMP”) for construction of the new road and pre-construction services for the new building; and

- (viii) amend the Construction Manager At Risk (“CMAR”) Agreement.

The budget increase will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects (“CCAP”) Legislative appropriations.

The Board reasonably expects to incur debt obligations for the design, planning and construction of the project, and all or a portion of the debt proceeds are reasonably expected to be used to reimburse the System for project expenditures previously expended. The maximum principal amount of debt obligations to be issued for the Project is \$48,700,000.

The Board further authorized the president to negotiate and execute any and all agreements with city, state, and county agencies, utility companies and other entities required to successfully complete the project.

This approval grants authorization to proceed with the additional scope of work for the Dorothy and Todd Aaron Medical Sciences Building Addition and Renovation project through the Capital Construction Assistance Projects with a budget of \$18,700,000, waive the board directed fee for landscape enhancements; waive the board directed fee for public art; amend the Design Professional (“DP”) Agreement for Stage I design services; amend the Construction Manager-Agent (“CMA”) Agreement; and amend the Construction Manager At Risk (“CMAR”) Agreement for construction of the new road and pre-construction services for the new building, and renovation within the existing building, those service activities being associated with the planning, design, and construction process, i.e., project evaluation; site analysis; constructability review; value engineering; scheduling; cost control; and development of the final Guaranteed Maximum Price (“GMP”).

The Texas Tech University Health Sciences Center, School of Health Professionals (“SoHP”) Physicians Assistant (“PA”) program utilizes a facility located on the Midland College campus in Midland, Texas. The additional project scope will expand the PA program’s facilities to meet the future projected student cohort size. The project shall incorporate new technologies and educational tools necessary for the future educational processes.

Project will renovate approximately 4,000 SF within the existing building. The currently utilized auditorium style classroom will be remodeled to support independent study, ADA testing,

offices, while providing technology to support telehealth education and practicum. A new facility will be constructed within the perimeter of the existing TTUHSC land lease. The new building's gross square feet ("GSF") will be determined through the programming process. TTUHSC envisions a single, flexible seating, divisible classroom to accommodate larger gatherings of students. Also, staff and faculty offices, storage, restrooms, and public common spaces are to be provided. A new roadway will be constructed from N. Garfield Street to the Fox Science Building parking lot and softball field.

The anticipated total project budget is \$30,000,000. The 86th Texas Legislature appropriated \$20,000,000 of debt service for this facility. In February 2020, the Board of Regents approved a \$5,000,000 location incentives agreement with Midland Development Corporation to be used for this project. Gift funding and institutional funds are planned for the remaining \$5,000,000.

The TTUHSC Approve additional project scope, budget increase, and contract amendments for the Dorothy and Todd Aaron Medical Sciences Building Addition and Renovation project on the Midland College campus for the TTUHSC School of Health Professions Physician Assistant program PowerPoint is included herewith as Attachment No. 14.

- III.D.10. TTUS: Report on Facilities Planning and Construction projects.—The Board accepted a report on Facilities Planning and Construction managed projects, included herewith as Attachment No. 15 (TTUS Report on Facilities Planning and Construction projects (project data as of 10/26/2022) PowerPoint) and Attachment No. 16 (TTUS Facilities Planning and Construction Capital Projects Budget Analysis FY 2018-2023 Report (Revised 11-2-2022)).

Thursday, November 17, 2022.—The members of the Board of Regents of the Texas Tech University System reconvened upon adjournment of the Facilities Committee meeting at 11:38 am on Thursday, November 17, 2022, in the Regents Conference Room (104A), First Floor, System Building, 1508 Knoxville Avenue, Lubbock, Texas, with the following in attendance:

ATTENDANCE.—

Regents present in person were Arcilia Acosta; Hani Annabi, Student Regent; Cody Campbell; Ginger Kerrick Davis; Pat Gordon; Mark Griffin, Vice Chairman; J. Michael Lewis, Chairman; John Steinmetz; John Walker; and Dusty Womble.

The following officers and staff were present for all or a portion of the meeting: Dr. Tedd Mitchell, Chancellor, TTUS; Dr. Lawrence Schovanec, President, TTU; Dr. Richard Lange, President, TTUHSC El Paso; Dr. Lori Rice-Spearman, President, TTUHSC; Mr. Ronnie Hawkins, Jr., President, ASU; Dr. JuliAnn Mazachek, President, MSU; Mr. Eric Bentley, Vice Chancellor and General Counsel, TTUS; Mr. Keino McWhinney, Secretary of the Board and Special Advisor to the Chancellor, TTUS; Mrs. Penny Harkey, Interim CFO, TTUS and Vice President and Chief Financial Officer, TTUHSC; Mr. Billy Breedlove, Vice Chancellor for Facilities, Planning and Construction, TTUS; Mrs. Kim Turner, Chief Audit Executive, Office of Audit Services, TTUS; Mr. Patrick Kramer, Vice Chancellor for Institutional Advancement, TTUS; Mrs. Kristina Butts, Vice Chancellor for Federal Relations, TTUS; Ms. Martha Brown, Vice Chancellor for State Relations, TTUS; Mr. Tim Barrett, Chief Investment Officer, TTUS; Mr. Steve Sosland, Vice Chancellor for Leader and Culture Development, TTUS; Mr. Dailey Fuller, Chief of Staff, Chancellor's Office, TTUS; Mrs. Noel Sloan, Senior Vice President for Administration and Finance and Chief Financial Officer, TTU; Mrs. Angie Wright, Vice President for Finance and Administration, ASU; Dr. Beth Reissenweber, Vice President for Administration and Finance, MSU; Ms. Jessica Fisher, Interim Vice President for Finance and Administration, TTUHSC El Paso; Dr. Ronald Hendrick, Provost, TTU; Dr. Darrin D'Agostino, Provost and Chief Academic Officer, TTUHSC; Mr. Scott Lacefield, Senior Director of Communications, Chancellor's Office, TTUS; and Mrs. Christina Martinez, Assistant Secretary to the Board of Regents, TTUS.

- IV. MEETING OF THE BOARD—CALL TO ORDER; RECONVENE INTO OPEN SESSION OF THE BOARD.—At 11:38 am, Chairman Lewis announced a quorum present and called the meeting to order.
- IV.A. APPROVAL OF MINUTES.—Chairman Lewis asked for approval of the minutes of the board meeting held on August 11-12, 2022. Regent Campbell moved for their approval. Regent Kerrick seconded the motion, and the motion passed unanimously.
- IV.B. COMMITTEE OF THE WHOLE.—Chairman Lewis announced that for the purpose of facilitating action on the items to be considered, Vice Chairman Griffin would preside over the Committee of the Whole.
- IV.B.1. ASU, MSU, TTU, TTUHSC, TTUHSC El Paso, TTUSA, and TTUS: Approve Consent Agenda; acknowledge review of Information Agenda.—The Board approved the Consent Agenda and acknowledgment of its review of the Information Agenda. The following are the Minute Orders approved by this motion.
- IV.B.1.a. ASU: Approve naming of the Shelley New Show Cattle Program.—The Board approved naming of the Angelo State University Show Cattle Program the “Shelley New Show Cattle Program,” in honor and recognition of Alvin New’s \$500,000.00 gift for the renovation of the existing cattle barn facility and

construction of a new cattle barn facility at the MIR Center of Angelo State University. This request was approved administratively by the president and the chancellor.

Donor made a gift of five hundred thousand and no/dollars (\$500,000.00) to Angelo State University to fund the renovation of the existing cattle barn facility and construction of a new cattle barn facility at the MIR Center of Angelo State University. In recognition of Donor's gift, Angelo State University requests to name its Show Cattle Program the "Shelley New Show Cattle Program."

- IV.B.1.b. ASU: Approve amended naming of the Kay Bailey Hutchison Center for Security Studies.—The Board approved a naming modification to the Kay Bailey Hutchison Center for Security Studies to reflect the broadening purpose of the center. The amended naming will read as follows: the "Kay Bailey Hutchinson Center for Cyber Intelligence, Innovation, and Security Studies." Signage for the space will specify the approved name. This request was approved administratively by the president and the chancellor.

The Kay Bailey Hutchison Center for Security Studies was named in honor of retired U.S. Senator Kay Bailey Hutchison and her devoted support of the Angelo State University Center for Security Studies.

The request to amend the name of the center is reflective of the direction Angelo State University has chosen to take the center, renaming the center will more appropriately reflect the expanded purpose of the academic unit and be known as the "Kay Bailey Hutchison Center for Cyber Intelligence, Innovation, and Security Studies."

- IV.B.1.c. MSU: Approve emeritus appointment.—The Board granted emeritus status to the individual listed below. This request was approved administratively by the president and the chancellor.

Dr. James Johnston will retire from Midwestern State University (“MSU”) on December 31, 2022, as Professor of Radiologic Sciences in the Gunn College of Health Sciences and Human Services. Dr. Johnston has served 19 years at MSU. He earned the Associate of Applied Science in Radiologic Sciences from South Plains College, the B.S. and M.S. in Radiologic Sciences from Midwestern State University, and the Ph.D. in Health Studies at Texas Woman's University. During his tenure at MSU, he served the Gunn College as Director of Interdisciplinary Education (2009-2012) and Dean (2013-2017). Dr. Johnston was named Provost in 2017 and served as Interim President from September 2021 until May 2022. Dr. Johnston received the MSU Faculty Award in 2012, an award presented by the MSU faculty for teaching excellence and service to the university. An expert in his field, he was elevated to Fellow by the American Society of Radiologic Technologists in 2012. In 2019 the Texas Society of Radiologic Technologists named an outstanding administrator award in his honor and presented him with the inaugural award. Dr. Johnston’s commitment to Midwestern State University is evident through his many contributions to the Gunn College and the institution as a whole.

- IV.B.1.d. TTUHSC El Paso: Approve exception to nepotism policy.—The Board approved of an exception to the nepotism policy. Gowri Renganathan, M.D., assistant professor in the Department of Internal Medicine-Transmountain has served as a faculty member at the Paul L. Foster School of Medicine since 2020. Dr. Renganathan will be granted a new administrative assignment as the program director of the transitional year residency program to be established at the Transmountain site. Dr. Renganathan is the spouse of the current assistant dean for graduate medical education, Sudhagar Thangarasu, M.D. Supervision of Dr. Renganathan’s performance as a residency program director, to include her performance evaluation, promotion, reappointment, and compensation decisions will be provided by Dan Schuller, M.D., professor and chair of the Department of Internal Medicine-Transmountain. Oversight of the transitional year residency program to ensure program compliance

with ACGME rules, regulations, and accreditation standards will be provided by Armando Meza, M.D., associate dean for graduate medical education, in collaboration with the chair of the Department of Internal Medicine - Transmountain. Dr. Meza serves as the designated institutional official of TTUHSC El Paso, and has authority and responsibility for the oversight and administration of TTUHSC El Paso's accredited residency programs. Dr. Renganathan's proposed start date as the residency program director is December 1, 2022. This request was approved administratively by the president and the chancellor.

- IV.B.1.e. TTU: Approve affirmation of managerial group and exclude members of the Board of Regents from access to classified information.—The Board approved the following resolutions affirming the classified material managerial group and excluding members of the Board of Regents from access to classified information, as provided for in the National Industrial Security Program Operating Manual, 32 C.F.R §117.9(d)(1)(v) and §117.9(f). This request was approved administratively by the president and the chancellor.

RESOLVED, that those persons occupying the following positions at Texas Tech University ("TTU") be known as the Managerial Group, having the authority and responsibility for the negotiation, execution, and administration of User Agency contracts, as described in 32 C.F.R § 117, *National Industrial Security Program Operating Manual*:

President, TTU
Vice President for Research, TTU
Facility Security Officer, TTU
Assistant Facility Security Officer(s), TTU

RESOLVED, that the Managerial Group is hereby delegated all the Board's duties and responsibilities pertaining to the protection of classified information under classified contracts of the Department of Defense or User Agencies

of the Industrial Security Program awarded to TTU.

RESOLVED, that the following named officers and members of the Board of Regents shall not require, shall not have, and can be effectively excluded from, access to all classified information in the possession of TTU, and do not occupy positions that would enable them to affect adversely the policies and practices of TTU in the performance of any classified contracts for the Department of Defense or User Agencies of its Industrial Security Program awarded to TTU, and need not be processed for personnel security clearance:

BOARD OF REGENTS

Mr. J. Michael Lewis

Mr. John Steinmetz

Mr. John Walker

Ms. Ginger Kerrick Davis

Mr. Mark Griffin

Mr. Dusty Womble

Ms. Arcilia Acosta

Mr. Cody Campbell

Mr. Pat Gordon

Mr. Hani Michael Annabi (Student Regent)

- IV.B.1.f. ASU, MSU, TTU, TTUHSC, and TTUHSC El Paso: Acknowledge the Campus Condition Report.—The Board acknowledged the Campus Condition Report for Angelo State University, Midwestern State University, Texas Tech University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso, included herewith as Attachment No. 17, Attachment No. 18, Attachment No. 19, Attachment No. 20 and Attachment No. 21, respectively. This request was approved administratively by the president and the chancellor.
- IV.B.1.g. TTU: Approve budget increase for the CHACP 2 – Chillers project.—The Board authorized an increase to the previously approved budget for the CHACP 2 – Chillers project. The project budget will increase from \$4,450,000 to \$5,700,000 for a total increase

of \$1,250,000. The increase in the project budget will be funded with Unexpended Plant Funds (\$250,000 cash) and Capital Improvement Project funds (\$1,000,000 cash). This request was approved administratively by the president and the chancellor.

Texas Tech University (“TTU”), with the consent of Texas Tech University Health Sciences Center (“TTUHSC”) and University Medical Center (“UMC”), was approved to add two (2) new 1,500-ton electric chillers to the basement of Central Heating and Cooling Plant 2 (“CHACP 2”) at the August 2020 board meeting. The new chillers will provide significant energy savings to the TTUHSC and UMC facilities. The units will complement the three existing steam chillers in operation at CHACP 2 and will provide the needed capacity at the plant. The chillers will also allow for a 5-minute restoration of chiller service in the event of a steam outage.

Since original approval was granted in August 2020, we have proceeded with design and planning of the project. Escalation of equipment and labor costs associated with ongoing supply chain constraints has resulted in unforeseen and unexpected budgetary increases.

In August 2020, the Board of Regents approved an exception to the *Regents’ Rules* that the CHACP 2 - Chillers project be managed by Texas Tech University Operations in lieu of TTU System Facilities Planning and Construction with a total project budget of \$4,450,000.

- IV.B.1.h. TTUHSC: Authorize a utility easement benefiting the renovation of the Southwest Professional Building located in Dallas, TX.—The Board authorized and executed an electric delivery utility easement with Oncor Electric for 0.0072 acres (315 square feet) of Texas Tech University Health Sciences Center land located in Dallas, TX. This easement will allow for the installation of an electric line/utility corridor to support the Renovation of the Southwest Professional Building project. This request was approved administratively by the president and the chancellor.

The metes and bound description and survey for the new Utility Easement are included herewith as Attachment No. 22.

This approval grants authority to execute a Utility Easement to support the Renovation of the Southwest Professional Building project with an electrical service delivery corridor and infrastructure that will be provided by Oncor Electric. The Easement provides Oncor Electric with the right to install, operate, relocate, construct, reconstruct, add to, maintain, inspect, patrol, repair, and replace utility facilities for the transmission and distribution of electricity upon, over, under, and across the Texas Tech University Health Sciences Center land. The project will be installing two Oncor requested 4" conduits from the utility providers overhead 3-phase service pole to the new point of service (transformer). The transformer size is being increased to afford additional capacity for potential future growth and research power needs. Additionally, Oncor Electric will be required to return the property to its original condition or an acceptable state.

- IV.B.1.i. ASU: Approve FY 2024 net neutral tuition and student fee adjustments.—The Board approved the proposed revisions to the global fee document. Approved revisions will be incorporated into the complete global fee document, itemizing tuition and fees to be assessed and collected from regularly enrolled and prospective students effective with the fall 2023 semester. The proposed revisions to the global fee document are either net neutral or a reduction in the cost to the student. This request was approved administratively by the president and the chancellor.

The proposed revisions outlined below 1) eliminate the courses taught in Aerospace Studies from the requirements of paying differential tuition; 2) reduce the Transportation Fee by \$15 to more accurately reflect the cost of providing transportation for the ASU student body; and 3) increase the Technology Service Fee by \$10 for students taking 4-8 hours and \$15 for students taking 9 or more hours.

IV.B.1.j. TTU: Approve acceptance of Gift-in-Kind benefitting Texas Tech University Libraries, Southwest Collections Library, Southwest Music Archive.—The Board approved acceptance of a gift-in-kind from Glen Sample Ely, consisting of sixty-two (62) items of historical musical interest with an appraised value of \$400,000.00, as reported by Stephen Braitman, ASA, Appraiser. This request was approved administratively by the president and the chancellor.

Mr. Glen Sample Ely (“Donor”) made a generous contribution to the Southwest Special Collections Library, Southwest Music Archive, of sixty-two (62) professionally framed musical collector items. The Glen Sample Ely Music Autograph & Memorabilia Collection contains numerous professionally framed pieces such as posters, handbills, original tickets, paper items, albums and photographs; most of which have authenticated signatures of the musical artists represented. This collection will remain in the Southwest Collections Library for display, research and the enjoyment of library visitors.

The collection has been appraised by Mr. Stephen Braitman, ASA, Appraiser. The appraisal report, consisting of 66 pages, identifies a fair market value of \$400,000 based on the current status of similar materials in the relevant markets. The appraisal report follows the Uniform Standards of Professional Appraisal Practice and IRS guidelines, and was intended for the Donor’s use in claiming a charitable contribution on his taxes.

IV.B.1.k. TTU: Approve modification of endowment.—The Board approved modification of the criteria for the Gladys Manjeot Memorial Scholarship of District I, Texas Garden Clubs, Inc. endowment in the Davis College of Agricultural Sciences & Natural Resources as listed below. This request was approved administratively by the president and the chancellor.

Scholarships to be awarded to upperclassmen majoring in horticulture, floriculture, landscape design, botany, plant pathology, forestry, agronomy, environmental concerns, city planning, land management, or allied subjects. Applicants must

have a 3.5 GPA. Applicants must sign a FERPA waiver to receive this scholarship.

The Gladys Manjeot Memorial Scholarship of District I, Texas Garden Clubs, Inc. endowment (“Endowment”) was established in 1997 by the District I, Texas Garden Clubs, Inc. (“Donor”). The Davis College of Agricultural Sciences & Natural Resources (“Davis College”) has partnered with the Donor over the years to provide names and directory information of scholarship recipients, and to inform recipients that the Donor provides further external scholarship opportunities. In turn, the Donor sent its own congratulatory letters to recipients with similar information about the Donor and its external scholarship opportunities.

The Donor has requested that applicant grades and GPA status be provided to Donor as part of the application process, as scholarship recipients are encouraged to apply for the state and national level scholarship(s) as well, if applicants meet certain requirements. However, grades and GPA status are protected under the Family Educational Rights & Privacy Act (“FERPA”). The Donor believes it has an interest in verifying the applicants meet the criteria of the scholarship and has adamantly requested, in writing, to modify the criteria to include that applicants must complete a FERPA waiver when applying for the scholarship. The Davis College believes that it can comply with this request and notify potential applicants appropriately prior to their submission of the scholarship application.

The balance of the Endowment as of October 10, 2022, including the corpus and spendable is \$88,334.92.

- IV.B.1.I. TTU: Approve purchasing contract(s) in excess of \$1,000,000.—The Board approved purchasing contracts in accordance with *Regents Rules* 07.12.3.a, including those contracts with a value exceeding \$5,000,000 in accordance with *Regents’ Rules* 07.12.3.c as listed on the following page. This request was approved administratively by the president and the chancellor.

TTU: Approve Purchasing Contracts

Regents' Rules 07.12.3.a and 07.12.3.c

Component	Vendor	Services or Goods to be Provided	Estimated Per Annum Expenditures	Estimated Term Expenditures (includes renewals)	Start	End	Procurement Method	
TTU	Carrier Corporation (C19351)	HVAC Equipment, Supplies, and installation	\$ 2,500,000	\$ 3,000,000	9/15/2022	11/30/2023	BuyBoard	Section 07.12.3.c, Regents' Rules, requires each contract for the purchase of goods and services, with a value exceeding \$5,000,000, that the Chief Procurement Officer for the applicable component institution or the TTU system must submit to the board: (1) verification that the solicitation and purchasing method and contractor selection process comply with state law and TTU system policies; and (2) information on any potential issue that may arise in the solicitation, purchasing, or contractor selection process.
TTU	AT&T Corp (C19242)	Servers, storage, networking, support and other technology products	\$ 1,300,000	\$ 2,600,000	8/22/2022	12/31/2024	Department of Information Resources (DIR)	Section 07.12.3.c, Regents' Rules, requires each contract for the purchase of goods and services, with a value exceeding \$5,000,000, that the Chief Procurement Officer for the applicable component institution or the TTU system must submit to the board: (1) verification that the solicitation and purchasing method and contractor selection process comply with state law and TTU system policies; and (2) information on any potential issue that may arise in the solicitation, purchasing, or contractor selection process.
TTU	EBSCO (C10117)	Books and reference materials for TTU Library	\$ 2,500,000	\$ 20,000,000	9/1/2016	8/31/2024	Sole Source	Section 07.12.3.c, Regents' Rules, requires each contract for the purchase of goods and services, with a value exceeding \$5,000,000, that the Chief Procurement Officer for the applicable component institution or the TTU system must submit to the board: (1) verification that the solicitation and purchasing method and contractor selection process comply with state law and TTU system policies; and (2) information on any potential issue that may arise in the solicitation, purchasing, or contractor selection process.

IV.B.1.m. TTU: Approve commissioning of police officer.—The Board approved to commission the individual as listed below as a police officer, effective on the date indicated. This request was approved administratively by the president and the chancellor.

Thomas Flood, effective September 1, 2022

IV.B.1.n. TTUHSC El Paso: Approve FY 2024 net neutral student fee adjustments.—The Board approved the proposed revisions to the global fee document provided in the table below. Approved revisions will be incorporated into the complete global fee document, itemizing tuition and fees to be assessed and collected from regularly enrolled and prospective students effective with the fall 2023 semester. The institution's proposed revisions to the global fee document are a net neutral cost to the

student. This request was approved administratively by the president and the chancellor.

Fee	Cost Basis	Current	Proposed	
		FY 2023	FY 2024	
		Rate (\$)	Rate (\$)	Increase (\$)
Student Services Fee				
Graduate School of Biomedical Sciences	Term	138.60	143.60	5.00
School of Medicine	Annual	346.50	359.00	12.50
School of Nursing	Term	138.60	143.60	5.00
School of Dental Medicine	Annual	346.50	359.00	12.50
Records Processing Fee				
Graduate School of Biomedical Sciences	Term	15.00	10.00	-5.00
School of Medicine	Annual	37.50	25.00	-12.50
School of Nursing	Term	15.00	10.00	-5.00
School of Dental Medicine	Annual	37.50	25.00	-12.50

The Board of Regents approved to continue tuition and fee rates for FY 2023 at the previously approved rates for FY 2022 at the May 2022 Board of Regents meeting.

- IV.B.1.o. TTUS: Authorize extension of a consulting agreement to provide support for federal relations.—
 The Board authorized an extension to the contract with Lewis-Burke Associates, LLC., to continue to advance federal research initiatives for the Texas Tech University System (“TTUS”) and its components. This request was approved administratively by the chancellor.

Approval is being requested to exercise a one-year extension and up to two additional one-year extensions.

Services and objectives of Lewis-Burke Associates under the proposed federal relations contract include: 1) Legislative and Public Policy Representation - Expand the TTUS’s reach and support from federal sources and broaden its influence and impact on federal and congressional decision-making, 2) Collaboration with TTUS

Components to implement a Federal Affairs Strategy and Communications Plan, and 3) Coalition Building – working with TTUS to identify ongoing or emerging federal research priorities and opportunities.

The estimated cost for this engagement is \$219,000 per year. Additional services beyond the scope of the agreement, will be billed at \$400 per hour. TTUS will also reimburse the consultant's reasonable direct expenses for travel, lodging, document reproduction and other support expenses. Direct expenses will only be reimbursed with prior approval from TTUS and may not exceed \$15,000 per year.

- IV.B.1.p. TTUS: Authorize chancellor to execute a contract with the Texas Higher Education Coordinating Board to provide funding for FY 2023 debt service.—The Board authorized the chancellor, or his designee, to approve a contract with the Texas Higher Education Coordinating Board to provide funding for debt service. This request was approved administratively by the chancellor.

The Texas Tech University System (“TTUS”) received authorization from SB 52 of the 87th Legislature, 3rd Called Special Session to initiate projects at each TTUS institution totaling \$299,424,902. The Board authorized the use of the Revenue Finance System for these projects at the May 2022 meeting.

The Texas Higher Education Coordinating Board will distribute FY 2023 debt service funding authorized by SB 8 of the 87th Legislature, 3rd Called Session through a contractual agreement with TTUS totaling \$29,092,195 and allocated to the institutions as outlined below:

- Angelo State University \$3,497,652
- Midwestern State University \$4,364,567
- Texas Tech University \$7,772,560
- TTUHSC \$7,637,993
- TTUHSC El Paso \$5,819,423

Information Agenda

Information is provided as required by Section 01.02.7.d(4)(c), *Regents' Rules*

- (1) ASU, MSU, TTU, TTUHSC and TTUHSC El Paso: Summary of Revenues and Expenditures by Budget Category, FY 2022 (as of August 31, 2022), per Section 01.02.8.d(3)(g), *Regents' Rules* – All actual expenditures will be reviewed by the Finance and Administration Committee annually and provided as information. Financial reports for the most recently completed quarter for each of the component institutions are available at: <https://www.texastech.edu/offices/cfo/board-financial-reports.php>

- (2) TTUHSC and TTUHSC El Paso: Contracts for ongoing and continuing health-related service relationships per Section 07.12.4.c, *Regents' Rules* – “The following are excepted from the requirements of Section 07.12.3.a and Section 07.12.3.b, *Regents' Rules*, the board delegates to the presidents of health-related institutions the authority to approve the proposals and execute and sign contracts for health related services, as specified herein. This delegation is limited to contracts with entities for which the institution has an ongoing and continuing contractual relationship, to include: revenue contracts from which the institution receives payment for health related services; participation in health provider networks; resident or faculty support; and expense contracts with healthcare providers or suppliers necessary to fulfill the obligation to provide health related services as part of a revenue contract or new health related services contracts that in-volve a stated or implied consideration that total in excess of \$1,000,000 over the entire term of the contract but the per an-num amount is less than \$1,000,000. Before such a contract may be executed, the president shall obtain the prior review of the TTU system Office of General Counsel and the TTU system vice chancellor and chief financial officer, or their designees. A list of health related services contracts that have been executed under this delegation of authority since the previous regular board meeting shall be provided to the board as an information item at the next regular board meeting.”

TTUHSC					
<i>Regents' Rules, 07.12.4.c</i>					
Component	Vendor (Include Contract #)	Service or Goods to be Provided	Start Date	End Date	Extension/ Amendment
TTUHSC	(CON594709) Locumtenens.com LLC	Locum Staffing Services	11/17/2010	11/16/2022	Extension
TTUHSC	(CON3384179) University Medical Center - UMC Lubbock	Services and Funding Support Dept of ObGyn - Replaces Various	9/1/2022	6/30/2023	Extension

		Contracts for Department			
TTUHSC	(CON3369749) University Medical Center - UMC Lubbock	Services and Funding Support - Urology Department - Replaces Various Contracts for Department	7/1/2022	6/30/2023	Extension
TTUHSC	(CON3297117) Covenant Health System	Support - TTUHSC Resident Rotations and Physician Services (Residency Program Directors)	7/1/2022	6/30/2023	Extension
TTUHSC	(CON3287307) Covenant Health System	Physician Services, Covenant Medical Center & Covenant Children's Hospital (Multi-Party)	7/1/2022	6/30/2023	Extension
TTUHSC	(CON3112537) United Regional Health Care System Inc	Offsite Hospital Services	9/1/2021	8/31/2022	Extension
TTUHSC	(CON2670715) Immediate Nurse Care Staffing Inc	Locum Nurse Staffing	7/1/2020	8/31/2023	Extension
TTUHSC	(AMEND595882-010) Midland Memorial Hospital	Master Coordinating Agreement - Faculty & Resident funding, Midland Memorial Hospital	10/1/2022	9/30/2023	Amendment
TTUHSC	(AMEND588851-008) University Medical Center - UMC Lubbock	2022 - 2023 Master Coordinating Agreement Restated and Amended: Identifies funding for Resident Support.	7/1/2022	6/30/2023	Amendment
TTUHSC	(AMEND3193334-001) Hendrick Medical Center	Amendment to Compensation - FY22-23 - Expense - Middleton Unit - Onsite Health Care	3/1/2022	8/31/2023	Amendment
TTUHSC	(AMEND3193333-001) Hendrick Medical Center	Amendment to Compensation - FY22-23 - Expense - Robertson Unit - Onsite Health Care	3/1/2022	8/31/2023	Amendment
TTUHSC	(AMEND3113668-001) Mitchell County Hospital District	Amendment to Compensation - Offsite Hospital Services FY22-23 - Price Daniel Unit	9/1/2022	8/31/2023	Amendment
TTUHSC	(AMEND3053511-001) University Medical Center - UMC Lubbock	Amendment to Compensation - Residency Program Directors	9/1/2022	8/31/2023	Amendment
TTUHSC	(AMEND3041229-001) University Medical Center - UMC Lubbock	Amendment to Extend Services Burn and Trauma Services - Department of Surgery	7/1/2022	6/30/2023	Extension

TTUHSC	(AMEND2937610-001) BSA Hospital LLC	Amendment for additional Specialty Services & associated comp.- Patient Services Provide Surgical Intensivist Services	8/15/2022	4/4/2023	Amendment
TTUHSC	(AMEND2117893-005) University Medical Center - UMC Lubbock	Amendment to Increase RVU incentive amounts for each Physician	7/1/2022	6/30/2023	Amendment
TTUHSC	(AMEND2117893-004) University Medical Center - UMC Lubbock	Critical Care Attending Physician Additional Coverage (Increased Hours and Higher Expenses for TTUHSC)	7/1/2022	6/30/2023	Amendment
TTUHSC	(AMEND1592374-013) University Medical Center - UMC Lubbock	Faculty Support Department of Internal Medicine, Cardiology	7/1/2022	6/30/2023	Amendment
TTUHSC	(AMEND1592371-009) University Medical Center - UMC Lubbock	Amended and Restated - Agreement for Faculty Support, Department of Orthopedics	9/1/2022	6/30/2023	Amendment

TTUHSC at El Paso					
<i>Regents' Rules, 07.12.4.c</i>					
TTUHSC EP	(09431) El Paso County Hospital District dba UMC	Pathology	07/01/22	06/30/25	Extension

- (3) TTU, TTUHSC and TTUHSC El Paso: Consulting contracts with an initial consideration of \$100,000 or less per Section 07.12.4.e.(1), *Regents' Rules* – “(a) Board approval is not required, but the vice chancellor and chief financial officer, in consultation with the chancellor, presidents, and chief financial officers of the institutions, shall review consulting contracts of \$100,000 or less prior to execution of the contract by the chancellor or president, as appropriate. (b) A report of the contract shall be provided as an Information Agenda item at the next board meeting.”

TTU					
<i>Regents Rules, 07.12.4.e.(2)</i>					
Component	Vendor (Include Contract #)	Consulting Service to be Provided	Term Consideration	Start Date	End Date
TTU	(C19456) Association for Advancing Quality in	Site visit and quality assurance reviews for national accreditation	\$15,000	Execution	05/31/2024

	Educator Preparation				
TTU	(C19402) MN Associates, Inc.	Outside evaluator for the new TTU NSF Engineering Research Center	Est. \$50,000 (\$10,000 per year)	Execution	End of Grant (5 years)
TTU	(C19457) Nelson, Mullins, Riley & Scarborough, LLP	Independent review and consulting services regarding Title IX Athletics Matters	Not to exceed \$100,000	Execution	10/31/2023

TTUHSC					
<i>Regents Rules, 07.12.4.e.(2)</i>					
Component	Vendor (Include Contract #)	Consulting Service to be Provided	Term Consideration	Start Date	End Date
TTUHSC	(CON3377765) EVERSANA Life Science Services LLC	Quality Assurance and Regulatory Affairs Consulting Support	\$ 9,403	8/15/2022	12/31/2023
TTUHSC	(CON3351761) Nancy B. Alarcon	Accreditation Self-Study Review	\$ 3,000	8/1/2022	11/1/2022

TTUHSC at El Paso					
<i>Regents Rules, 07.12.4.e.(2)</i>					
TTUHSC EP	(09904) Heidrick & Struggles Inc.	Coaching	\$4,000	08/15/22	11/15/22

- (4) TTU, TTUHSC and TTUHSC El Paso: Contracts that involve a stated or implied consideration that total in excess of \$1,000,000 over the entire term of the contract but the per annum amount is less than \$1,000,000 per section 07.12.4.a of the *Regents' Rules* – “The following are excepted from the requirements of Section 07.12.3.a and 07.12.3 b, *Regents' Rules*, the chancellor or president, or the chancellor or presidents designee, as appropriate, is delegated the authority to approve: (i) contracts that involve a stated or implied consideration that total in excess of \$1,000,000 over the entire term of the contract but the per annum amount is less than \$1,000,000; and (ii) any amendment, extension, or renewal of a contract originally approved by the chancellor or president, as appropriate, so long as the amendment, extension, or renewal does not cause the per annum amount of the contract to exceed \$1,000,000. This requirement is applicable to both cash and non-cash considerations. Information about such contracts or contract amendments, extensions, or renewals that are approved by the chancellor or a president under this delegation of authority shall be provided to the board as an information item at the next regular board meeting.”

TTU and TTUS: Approved Purchasing Contracts

Regents Rules, 07.12.4

Component	Vendor (Include Contract #)	Service or Goods to be Provided	Per Annum Consideration	Term Consideration (includes renewal)	Start Date	End Date	New or Extension	Procurement Method
TTUS	(C19143) Efficient Energy LLC	Energy Policy Act Coordination Services	\$800,000/ year	\$3.2 mil.	08/23/2022	11/30/2026	New	University of Texas RFQ
TTU	(C12366) Qualys, Inc.	Security Assessment Technology Platform	\$500,000/ year	\$3.0 mil.	09/01/2018	08/31/2024	Extension	Sole Source
TTU	(C19436) ServiceNow	IT Service Management Platform	\$500,000/ year	\$2.0 mil.	Execution	4 years after execution	New	Sole Source
TTU	(C11281) AG Administrators/ Dissinger Reed	Intercollegiate Athletics Catastrophic/Practice Accident Insurance Plan	\$850,000/ year	\$6.8 mil.	08/01/2017	07/31/2025	Extension	RFP
TTU	(C19061) Mavich Grainger	Maintenance, Repair, and Operations (MRO) supply & equipment management	\$500,000/ year	\$3.5 mil.	07/19/2022	12/31/2029	New	E&I Cooperative

TTUHSC Approved Purchasing Contracts

Regents Rules, 07.12.4

Component	Vendor (Include Contract #)	Service or Goods to be Provided	Per Annum Consideration	Term Consideration (includes renewal)	Start Date	End Date	New or Extension	Procurement Method
TTUHSC	(CON595449) JDC Ultrasound Inc	Echo Technician Services for Pediatric Cardiology Clinic	\$ 123,960	\$ 1,229,748	6/1/2005	5/31/2023	Extension	Professional Services
TTUHSC	(CON595115) Midland College	Operational & Maintenance of TTUHSC PA Program Facility at Midland College campus	\$ 90,084	\$ 1,081,008	9/1/2010	8/31/2023	Extension	Interagency
TTUHSC	(CON591535) C Thru U LLC	Radiology Services for TDCJ	\$ 140,510	\$ 1,092,707	12/1/2013	11/30/2022	Extension	Professional Services
TTUHSC	(CON590970) Consilium Staffing LLC	Managed Care Staffing Services – Various Medical	\$ 260,881	\$ 1,479,658	6/1/2013	8/31/2023	Extension	Professional Services

TTUHSC	(CON589562) Ameritas Life Insurance Company	Dental Insurance Plan for TTUHSC Executives and SOM Faculty	\$ 738,463	\$ 9,110,875	8/1/1996	7/31/2023	Extension	Professional Services
TTUHSC	(CON579843) Firemaster LLC	Fire Alarm System and Services	\$ 112,338	\$ 1,962,905	5/1/2015	4/30/2025	Extension	Professional Services
TTUHSC	(CON579119) University Medical Center	Lease - UMC HealthPoint 4004 82nd Street, Building B, Lubbock	\$ 193,982	\$ 2,040,614	1/1/2011	12/31/2022	Extension	Interlocal
TTUHSC	(CON579117) University Medical Center - UMC Lubbock	Lease - UMC HealthPoint/Southwest Medical 4004 82nd St, Suites A&B, Lubbock	\$ 145,527	\$ 1,367,322	5/1/2011	12/31/2022	Extension	Interlocal
TTUHSC	(CON3442349) North Loop MOB Ltd	Lease - NorthStar Professional Center, Suite 101 & 111 , 4642 N. Loop 289, Lubbock, Texas	\$ 293,092	\$ 1,915,303	10/1/2022	9/30/2026	New	Solicitation
TTUHSC	(CON2513271) The Coding Network LLC	Medical Coding Services - Department of Anesthesiology	\$ 606,778	\$ 1,303,329	3/1/2020	8/31/2023	Extension	Solicitation
TTUHSC	(CON2428251) Careerstaff Unlimited LLC	TDCJ Staffing Agency Services	\$ 868,238	\$ 1,439,919	9/1/2019	8/31/2023	Extension	Professional Services
TTUHSC	(CON2384127) Trevor V Walker MD PLLC	Provides Locum Services to Anesthesiology Department	\$ 401,375	\$ 1,190,356	8/1/2019	7/31/2023	Extension	Professional Services
TTUHSC	(CON1718065) Brian J. Norkiewicz	Surgical Acute Care Services	\$ 327,250	\$ 1,612,823	9/1/2017	8/31/2023	Extension	Professional Services
TTUHSC	(CON1675430) Reliant Energy Retail Services LLC	Electricity Purchase (Tradition Energy)	\$ 627,273	\$ 3,435,966	1/12/2015	1/11/2024	Extension	Exempt
TTUHSC	(CON1652256) Neogen Mental Health Behavioral Services PA	Psychiatry Services – Montford Unit	\$ 838,100.00	\$ 3,723,588.00	1/1/2017	8/31/2023	Extension	Professional Services
TTUHSC	(CON1645105) University Medical Center - UMC Lubbock	Physician Coding License and Services	\$ 259,141	\$ 2,207,668	12/30/2016	12/29/2022	Extension	Interlocal
TTUHSC	(CON1583051)	Professional Services	\$ 474,999	\$ 3,119,998	7/1/2016	6/30/2023	Extension	Professional Services

	Covenant Medical Group	Preceptorship						
TTUHSC	(AMEND57916 7-007) Shareholder Value Ltd	Lease - 5307 W. Loop 289 Suite 301 & 203, Lubbock 79414	\$ 201,825	\$ 1,505,007	10/14/2014	11/30/2024	Extension	Solicitation
TTUHSC	(AMEND31749 16-001) Elsevier BV - Amsterdam	Amendment for Additional Resources - Elsevier Subscription Agreement - ScienceDirect Online	\$ 770,901	\$ 2,347,774	1/1/2022	12/31/2024	Extension	Exempt

TTUHSC El Paso: Approved Purchasing Contracts								
<i>Regents Rules, 07.12.4</i>								
Component	Vendor (Include Contract #)	Service or Goods to be Provided	Per Annum Consideration	Term Consideration (includes renewal)	Start Date	End Date	New or Extension	Procurement Method
TTUHSC EP	(10116) Scott Boyd, MD, PC	Anesthesia MD	\$600,000/year (pro-rated)	\$2.0 mil	12/01/22	11/30/26	New	N/A Professional Services
TTUHSC EP	(10071) Lexi Medical Solutions	Anesthesia MD	\$600,000/year (pro-rated)	\$2.3 mil	10/01/22	09/30/26	New	N/A Professional Services
TTUHSC EP	(07861-A01) Focal Point Radiology, PLLC	Radiology	\$298,726/year (pro-rated)	\$1.2 mil	11/01/20	10/31/24	Extension	N/A Professional Services
TTUHSC EP	(06433-A03) 6Radiology, LLC	Radiology	\$735,000/year (pro-rated)	\$2.4 mil	09/09/19	08/31/23	Extension	N/A Professional Services
TTUHSC EP	(06502-A03) Atkinson Anesthesia, PLLC	CRNA	\$400,000/year (pro-rated)	\$1.3 mil	07/14/19	08/31/23	Extension	N/A Professional Services
TTUHSC EP	(06416-A02) Jennifer Duran, CRNA, PLLC	CRNA	\$300,000/year (pro-rated)	\$1.2 mil	07/10/19	08/31/23	Extension	N/A Professional Services
TTUHSC EP	(06290-A02) Belle Anesthesia, PLLC	CRNA	\$300,000/year (pro-rated)	\$1.2 mil	05/13/19	08/31/23	Extension	N/A Professional Services
TTUHSC EP	(05909-A03) Whitman Professional Services, PC	CRNA	\$400,000/year (pro-rated)	\$1.4 mil	02/09/19	08/31/23	Extension	N/A Professional Services

- (5) ASU, TTU, and TTUHSC: Contracts for Sponsored Program Projects per Section 07.12.4.b., *Regents' Rules* – “The following are excepted from the requirements of Section 07.12.3.a, *Regents' Rules*, the board delegates to the presidents or the presidents designee the authority to approve the proposals and execute and sign contracts for sponsored program projects in excess of \$1,000,000 per annum. Sponsored program projects are those grants, contracts, and cooperative agreements from either the public or private sectors that support research, instructional, and service projects. A list of such contracts for sponsored program projects in excess of \$1,000,000 per annum shall be provided to the board as an information item at the next regular board meeting.”

ASU:

- (a) Deloitte & Touche, LLP contracted under DIR-TSO-4124 to assist with design and implementation of the Texas Regional Security Operations Center (RSOC), as initiated by the Department of Information Resources (DIR). Contract year 07/14/22 through 08/31/23; contact amount \$4,781,226

TTU:

- (a) NSF Engineering Research Center for Advancing Sustainable and Distributed Fertilizer Production (CASFER); Gerri G. Botte, Professor, Chemical Engineering, and Principal Investigator; National Science Foundation; \$3,500,000 awarded
- (b) AEL Statewide Distance Education Virtual Provider; Justin R. Louder, Instructor, UC for Credit Programming, and Principal Investigator; United States Department of Education/Texas Workforce Commission; \$1,871,556 awarded
- (c) Technical Assistance Provider for LEA Residency Program Support; Sarah E. Beal, Executive Director, US PREP National Center, and Principal Investigator; Region 13 Education Service Center (ESC); \$1,400,000 awarded

TTUHSC:

- (a) Texas Higher Education Coordinating Board Graduate Medical Education Expansion Grants 2022-2024- Psychiatry Odessa; contract year 07/01/2022 through 06/30/2024; contract amount \$2,400,000.
- (b) Texas Higher Education Coordinating Board Graduate Medical Education Expansion Grants 2022-2024- Family Medicine Odessa; contract year 07/01/2022 through 06/30/2024; contract amount \$4,950,000.
- (c) Texas Higher Education Coordinating Board Graduate Medical Education Expansion Grants 2022-2024- Emergency Medicine Lubbock; contract year 07/01/2022 through 06/30/2024; contract amount \$3,600,000.
- (d) National Institutes of Health: National Institute on Alcohol Abuse and Alcoholism grant funding entitled “Medication Development for Alcohol Use Disorder”, grant year 09/01/2022 through 08/31/2023; award amount \$1,462,937
- (e) National Institutes of Health: National Institute on Aging grant funding entitled “MicroRNA Mouse Models and

Alzheimer's Disease", grant year 09/15/2022 through 08/31/2025; award amount \$1,867,721

- (f) Department of Treasury/Texas Higher Education Coordinating Board contract entitled "Texas Child and Mental Health Care Consortium (TCMHCC) Federal American Rescue Plan Act (ARPA)"; contract year 04/01/2022 through 11/07/2023; contract amount \$32,647,105.

- (6) TTU: Report on establishment of new centers and institutes per Section 04.11.2., *Regents' Rules* – "The establishment or substantive restructuring of a center, institute, or other academic unit or program not addressed in Section 04.11.1 herein shall be approved by the president, with notice provided to the board via an item in the Information Agenda for the next meeting of the board."

- (a) The President has approved the establishment of the Institute for Sustainability and Circular Economy (ISCE), Maddox Engineering Research Center; the vision of the Institute for Sustainability and Circular Economy (ISCE) is to become the world leader in developing solutions to major society problems while integrating sustainability, resiliency, and circular economy practices. This vision transcends to different systems encompassing food, energy, water, and healthcare. Addressing sustainability requires a systems level approach which combines convergence research, education and workforce development, a culture of diversity and inclusion for deep collaboration among different stakeholders, and a vibrant innovation ecosystem. ISCE will serve as a university-wide platform that catalyzes sustainable solutions via an engineered-system approach while connecting TTU academic units, centers, and programs that address topics related to sustainability.

- (7) ASU, MSU, TTU, TTUHSC and TTUHSC EI Paso: Chief Executive Officer Title IX administrative reports as required by Texas Education Code, Section 51.253(c) – "Subject to Subsection (d), at least once during each fall or spring semester, the chief executive officer of a postsecondary educational institution shall submit to the institution's governing body and post on the institution's Internet website a report concerning the reports received under Section 51.252. The report: (1) may not identify any person; and (2) must include: (A) the number of reports received under Section 51.252; (B) the number of investigations conducted as a result of those reports; (C) the disposition, if any, of any disciplinary processes arising from those reports; (D) the number of those reports for which the institution determined not to initiate a disciplinary process, if any; and (E) any disciplinary actions taken under Section 51.255." Reports for the most recently completed reporting period are available to the board and are posted on each component institution website.

ASU: <https://www.angelo.edu/current-students/title-ix/annual-reports/>

MSU: <https://msutexas.edu/titleix/annual-reports.php>

TTU: <https://www.depts.ttu.edu/titleix/annualreports/>

TTUHSC: [https://www.ttuhs.edu/titleix/institutional annual reports.aspx](https://www.ttuhs.edu/titleix/institutional%20annual%20reports.aspx)

TTUHSC EP: <https://el Paso.ttuhs.edu/title-ix/title-ix-reporting.aspx>

- (8) TTU: Exigent circumstances approval by Section 13.05.8, *Regents' Rules* – “When an emergency or exigent circumstances exist and it is not feasible or practical to convene a quorum of the board within the time in which action is needed, approval may be given for a naming proposal submitted by the chancellor and VCIA, or their designees, by verbal approval of the chair and vice chair of the board. The board, as a whole, will be made aware of the naming at the time the decision is made and, if accepted, namings approved in this manner shall be presented to the board as an information item at the next board meeting.”
- (a) On October 11, 2022, the vice chancellor for institutional advancement notified the chair and vice chair, via teleconference, of a naming proposal related to a gift benefitting Texas Tech University's College of Architecture. The chair and vice chair gave their verbal approval of the naming, pursuant to the understanding that the naming will be announced at an event on November 30, 2022. The chair and vice chair notified the remaining members of the board; however, the approved naming shall be kept confidential until the official announcement on November 30, 2022. An updated information item including the approved naming shall be included in February's agenda.
- (9) TTU: Reports to the Board. Office of Research Commercialization (ORC) report as required by Section 10.6.1, *Regents' Rules* – “At least once a year, coincidental with a regular board meeting, the ORC Director shall prepare for the chancellor and the board a report listing the titles and a brief description of each intellectual property disclosure received since the last report, all license and assignment agreements entered into by the ORC, and the status of existing license and assignment agreements, including the distribution of revenues earned from such agreements.”
- (a) ORC FY22 Annual Report is included herewith as Attachment No. 23 (Office of Research Commercialization Annual Report, FY 2022)
- (10) TTUHSC: Emergency or exigent circumstances approval by Section 01.02.1.b., *Regents' Rules* – “Section 109.001, Texas Education Code, states that the board “by rule may delegate a power or duty of the board to an officer, employee, or other agent of the board.” When an emergency or exigent circumstances exist that cannot be adequately addressed through Section 07.04.4.a(2) relating to budget adjustments, Section 07.12.3.g relating to contracts, or Section 08.01.7 relating to major construction projects, the chair – or if

the chair is not available within the time required for action, the vice chair – may approve a proposal submitted by the chancellor, or the chancellor’s designee, for an action that otherwise would require the approval of the board as a whole, with subsequent notification to the board as soon as practicable.”

(a) On October 19, 2022, Chairman Lewis granted exigent circumstances approval authorizing a change in academic rank, effective Oct. 24, 2022, for TTUHSC faculty Mark Dame, EdD, MHA, FACHE, CPRHM, from assistant professor to associate professor, Bachelor Program in Healthcare Management, School of Health Professions. Dr. Dame was judged by the appropriate departmental and collegiate committees and administrators as worthy and duly eligible for this promotion. The change was approved administratively by the TTUHSC President and the TTUS Chancellor.

(11) TTU: Emergency or exigent circumstances approval of a contract by Section 07.12.3.i., *Regents’ Rules* – “Unless prohibited by law and upon recommendation of the chancellor, when an emergency or exigent circumstance exist and it is not feasible or practical to convene a quorum of the board within the time in which action is needed, approval may be given for a contract by verbal approval of the chair or of the chair of the Finance and Administration Committee. Contracts approved in this manner shall be presented to the board as an information item at the next board meeting.”

(a) On October 18, 2022, Chairman Michael Lewis granted an exigent circumstances approval that authorized President Schovanec, or his designee, to execute a one-year renewal of the existing agreement terms with Adobe, Inc. for Adobe technology solutions used on various campuses. The total cost of the one-year extension is \$519, 898.

(b) On November 3, 2022, Chairman Michael Lewis granted an exigent circumstances approval that authorized President Schovanec, or his designee, to extend the grant of Texas Tech University’s media rights to the Big 12.

Regent Griffin moved that the item as presented be approved. The motion was seconded by Regent Campbell and passed unanimously.

Regent Griffin stated that consideration of items by the Committee of the Whole was concluded.

IV.C. SCHEDULE FOR BOARD MEETINGS.— Mr. McWhinney presented the following schedule for future board meetings: February 23-24, 2023, Odessa; May 4-5, 2023, Lubbock; August 10-11, 2023, Lubbock; November 16-17, 2023, Lubbock.

- V. EXECUTIVE SESSION.—At 11:41 am, the Board recessed and convened into Executive Session as authorized by Sections 551.071, 551.072, 551.073, 551.074, and 551.076 of the *Texas Government Code* in the Regents Committee Room (106), First Floor, System Administration Building, 1508 Knoxville Avenue.
- VI. OPEN SESSION.—At 3:06 pm, the Board reconvened in open session in the Regents Conference Room (104A), First Floor, System Administration Building, 1508 Knoxville Avenue, to consider items as a Committee of the Whole and Meeting of the Board.
- VI.A. REPORT OF EXECUTIVE SESSION.—Chairman Lewis called on Vice Chairman Griffin to present motions regarding items discussed in Executive Session.

Vice Chairman Griffin announced there was one motion resulting from Executive Session.

- VI.A.1. Vice Chairman Griffin moved that the Board authorize President Lange to conclude the negotiations and execute the necessary documents for acquisition of property in El Paso as identified in executive session ... under the terms and conditions set forth in Executive Session. The motion was seconded by Regent Kerrick Davis and unanimously approved by the Board.

No action was taken on any other matters that were posted for discussion in Executive Session, which included:

Consultation with Attorney Regarding Legal Matters or Pending and/or Contemplated Litigation or Settlement Offers (Tex. Govt. Code § 551.071) including: Pre-litigation and litigation update; and Other pending legal matters, potential legal claims updates, settlement offer updates, and discussion and advice from general counsel on pending legal issues.

Deliberation Regarding the Purchase, Exchange, Lease, Sale, or Value of Real Property (Tex. Govt. Code § 551.072) including: Discussion regarding a potential real property transaction for TTU.

Deliberation Regarding Prospective Gifts or Donations (Tex. Govt. Code § 551.073)

Deliberation Regarding Individual Personnel Matters Relating to the Appointment, Employment, Evaluation, Reassignment, Duties, Discipline, or Dismissal of Officers or Employees of the TTU System and its Component Institutions. (Tex. Govt. Code § 551.074) including: Discussion of Chancellor duties, assignments, and expectations; and Discussion of other personnel matters including the duties, performance

and evaluation of Texas Tech University System or component institution officers and employees.

Deliberation Regarding Security Devices or Security Audits. (Section 551.076).

(*In connection with this item, to the extent that any agenda notation or supplemental written materials, which might otherwise be covered by Tex. Govt. Code §551.1281(b)(1), have been excluded from an internet web posting, such exclusion has been authorized by a certification pursuant to Tex. Govt. Code §551.1281(c).)

VI.B. APPROVE SUSPENSION OF OFFICER ELECTION RULES AND REPORT OF NOMINATIONS COMMITTEE/BOARD OFFICER ELECTIONS.

VI.B.1. Chairman Lewis called on Regent Womble who made a motion, pursuant to *Regents' Rules*, Section 01.02.9.f, to suspend *Regents' Rules* 01.02.3.a.(2) regarding election of officers, so that the Board could proceed with the election of a Board chair and vice chair. Regent Walker seconded the motion, and the motion passed unanimously.

VI.B.2. Chairman Lewis called on Regent Walker who presented the slate of candidates for consideration for chair and vice chair of the Board of Regents. Regent Walker made the motion, per recommendation of the Nominations Committee, which consisted of Regent Womble, Regent Gordon and Regent Walker, to elect Regent Mark Griffin as chair and Regent Ginger Kerrick Davis as vice chair of the Texas Tech University System Board of Regents. The motion was seconded by Regent Campbell and unanimously approved by the Board.

Regent Lewis passed the gavel on to the newly elected Chair Griffin.

Chairman Griffin thanked Regent Lewis for his outstanding service as a regent and chairman of the Board. He also congratulated the new Vice Chair, Ginger Kerrick Davis and called on her to address the Board.

Vice Chair Kerrick Davis thanked the Board for her nomination and election as vice chair and looked forward to working with Chairman Griffin and supporting him and the Board in her new position.

Chairman Griffin called upon the Regents John Walker, John Steinmetz and Michael Lewis to address the Board since their

terms would be expiring in January 2023 and this meeting could possibly be their last meeting. Each regent expressed their thankfulness for being able to serve Texas Tech, the alma mater to each of them and to which they all hold dearly to their heart.


VI.C. CHAIRMAN'S ANNOUNCEMENTS.—There were no other announcements.

VII. ADJOURNMENT.—Chairman Griffin adjourned the meeting at 3:24 pm.

INDEX OF ATTACHMENTS

Attachment 1	TTUS Chapter 01 and 09 amendments for addition of new Mission Driven Investment Fund (MDIF)
Attachment 2	TTUS Investment Policy Statement: Mission Driven Investment Fund
Attachment 3	TTUS Investment Performance Update PowerPoint
Attachment 4	TTUS Report on Endowments PowerPoint
Attachment 5	TTUS Office of Audit Services 2022 Annual Report
Attachment 6	ASU Approve expenditures of the Carr Hall Renovation project for Design-Build Stage II design services and GMP for Bid Package 1 – Selective Demolition and Early Equipment Package PowerPoint
Attachment 7	ASU Authorize expenditures of the Elta Joyce Murphey Auditorium Renovation project for Design Professional Stage I design services PowerPoint
Attachment 8	ASU Authorize expenditures of the Central Plant Renovations and Additions project for Design-Build Stage I design services and Pre-construction services PowerPoint
Attachment 9	MSU Authorize expenditures of the Bolin Hall Renovation and Expansion project for Design-Build Stage I design services and Pre-construction services PowerPoint
Attachment 10	The MSU Approve exception to <i>Regents' Rules</i> for the Sikes Lake Dredging project PowerPoint
Attachment 11	TTU Approve exception to <i>Regents' Rules</i> and the total project budget for the Science Building Renovation project PowerPoint
Attachment 12	TTU Approve honorary naming of the Athletics' Track & Field Administrative Offices – "Corky Oglesby Track & Field" PowerPoint
Attachment 13	TTU Authorize expenditures of the Laboratory Animal Resources Center ("LARC") Expansion project for Design Professional Stage I design services PowerPoint
Attachment 14	TTUHSC Approve additional project scope, budget increase, and contract amendments for the Dorothy and Todd Aaron Medical Sciences Building Addition and Renovation project on the Midland College campus for the TTUHSC School of Health Professions Physician Assistant program PowerPoint
Attachment 15	TTUS Report on Facilities Planning and Construction projects (project data as of 10/26/2022) PowerPoint
Attachment 16	TTUS Facilities Planning and Construction Capital Projects Budget Analysis FY 2018-2023 Report (Revised 11-2-2022)
Attachment 17	ASU Campus Condition Report
Attachment 18	MSU Campus Condition Report
Attachment 19	TTU Campus Condition Report
Attachment 20	TTUHSC Campus Condition Report
Attachment 21	TTUHSC El Paso Campus Condition Report
Attachment 22	TTUHSC Metes and Bound Description and Survey for the new Utility Easement
Attachment 23	Office of Research Commercialization Annual Report, FY 2022

I, Keino McWhinney, the duly appointed and qualified Secretary of the Board of Regents, hereby certify that the above and foregoing is a true and correct copy of the Minutes of the Texas Tech University System Board of Regents meeting on November 17, 2022.



Keino McWhinney
Secretary

DRAFT ... 11-01-2022

Chapter 01 and Chapter 09 amendments for addition of new Mission Driven Investment Fund (MDIF)

Chapter 01

- 01.03 **Board conduct.** Each member of the board shall perform his or her activities on behalf of the TTU system in conformity with:
- a. the ethics policy set out in Section 03.01, *Regents' Rules*;
 - b. the conflict of interest policy for board members in Section 03.03, *Regents' Rules*;
 - c. the provisions of Chapter 09, *Regents' Rules*, and the Investment Policy Statements for the Long Term Investment Fund, ~~and~~ the Comprehensive Cash Pool and the Mission Driven Investment Fund relating to conflicts of interest and investments; and
 - d. applicable state laws related to standards of conduct and conflicts of interest.

...

Chapter 09

09.00 **Investment Programs.**

- 09.00.1 The System components have two types of funds; operating funds and endowment funds. To facilitate the investment of system funds, the board established ~~two~~ three investment programs, the Comprehensive Cash Pool "CCP", ~~and~~ the Long Term Investment Fund "LTIF" and the Mission Driven Investment Fund "MDIF". The purpose of the CCP is to provide for the collective investment of all operating funds available for the day-to-day expenses of the system including payroll, scholarships, research, maintenance, and utilities. The purpose of the LTIF is to provide for the collective investment of all donor restricted and/or board restricted endowment and trust

funds to be held long-term by the system. [The purpose of the MDIF is to invest in assets that advance the overall mission of the University System.](#)

09.01 **Chapter definitions.**

09.01.1 "LTIF" means the Long Term Investment Fund and is the investment vehicle for endowment funds, including quasi-endowments and trust funds.

09.01.2 "CCP" means Comprehensive Cash Pool consisting of operating funds of the system and is the investment vehicle for the operating funds.

09.01.3 "CFO" means the Vice Chancellor and Chief Financial Officer of the TTU system.

09.01.4 "CIO" means the Chief Investment Officer of the TTU system.

09.01.5 "Treasurer" means the director of the Office of Treasury of the TTU system.

[09.01.6 "MDIF" means the Mission Driven Investment Fund and is the investment vehicle for all approved mission directed driven investments.](#)

09.03 **Comprehensive Cash Pool.** The CCP consists of funds available for operating, non-operating and reserves not endowed by donors and/or the board. The policies for the investment of funds in the CCP shall be those outlined in the Investment Policy Statement for the Comprehensive Cash Pool.

09.04 **Long Term Investment Fund (Endowment).** The policies for the investment of funds for the LTIF shall be those outlined in the Investment Policy Statement for the Long Term Investment Fund.

[09.05 **Mission Driven Investment Fund.** The policies for the investment of funds in the MDIF shall be those outlined in the Investment Policy Statement for the MDIF.](#)

Texas Tech University System
INVESTMENT POLICY STATEMENT
Mission Driven Investment Fund

Date adopted:

Section 1 Introduction.

This policy statement shall guide the investment of donor and institutional funds known as the Mission Driven Investment Fund (“MDIF”). As a pooled fund for the collective investment of any donor gifted and institutional funds, quasi-endowments will be established by the respective component institution. The MDIF consists of investments that are focused on advancing the overall mission of the institution as the primary objective with returns being a secondary consideration.

Section 2 Roles and Responsibilities.

- 2.1 **Board of Regents (the “Board”).** The Board through the Finance, Administration and Investment Committee (“FAI Committee”) will approve the investment policy, contribution limits and monitor performance. The Board grants the authority to manage the MDIF in accordance with this policy to the Vice Chancellor and Chief Financial Officer of the Texas Tech University System (“TTUS”).
- 2.2 **Vice Chancellor and Chief Financial Officer of TTUS (“TTUS CFO”).** The TTUS CFO shall manage the MDIF in accordance with this policy under the oversight of the FAI Committee of the Board. The TTUS CFO may delegate investment and transaction responsibilities.
- 2.3 **MDIF Advisory Committee.** The TTUS CFO will establish a MDIF Advisory Committee, comprised of the Chancellor, TTUS CFO, respective component institution CFO(s), TTUS Chief Investment Officer and TTUS Director of Investment Operations. The committee will meet as needed to approve and provide guidance on MDIF investment proposals.

Section 3 Investment Objectives.

The investment of funds for the MDIF are focused on advancing the overall mission of the institution as the primary objective with returns being a secondary consideration.

Section 4 Sources of Capital and Limitations

MDIF assets will be approved by the MDIF advisory committee using the following limitations:

- 4.1 **Institutional Capital.** Investments of institutional funds may be made into the Mission Driven Investment Fund with approval from the MDIF advisory committee up to a maximum of \$150,000 per year per institution or .015% of the Institutions' operating budget. With a maximum cumulative commitment of \$1 million in aggregate per institution.
- 4.2 **Donor Directed Capital.** Donor capital may be invested into the Mission Driven Investment Fund with approval from the MDIF advisory committee, with a \$150,000 limitation per donor.

Section 6 Approval Process.

MDIF Advisory Committee will review and approve all proposed MDIF investments utilizing the following guidelines:

- 6.1 **Institution proposal.** The respective institution will sponsor and present a proposal containing:
 - How the investment advances the mission of the institution
 - Details related to proposed investment strategy and firm/fund
 - Source of Capital
- 6.2 **Investment firm/fund review.** Evaluation of the investment firm/fund based on:
 - Market level terms, assets under management and track record for similar investment firms.
 - Operational policies and procedures align with standard practice.
 - Legal agreements comply with applicable laws and regulations ensuring TTUS is protected from legal risks.
- 6.3 **Proposal Review.** The proposal will be reviewed and approved by:
 - Chancellor
 - MDIF Advisory Committee

Section 7 Reporting.

- **Annual Endowment Reports.** MDIF balances will be included on total endowment reports prepared annually.
- **Board of Regents Reporting.** MDIF shall be reported as an Information Item at each November Board of Regents meeting, to include the following items:
 - Prior fiscal year and cumulative MDIF institutional capital contributions; and
 - Prior fiscal year and cumulative donor capital investment.

Section 8 Cash Deposits.

- 8.1 The MDIF cash deposits will be invested in the Comprehensive Cash Pool (“CCP”) cash segment until the capital is called by the investment firm.

Section 9 Spending Policy.

- 9.1 Mission Driven Investment Funds are not subject to a spending policy.

Section 10 Distributions.

- 10.1 All realized gains and distributions from the underlying MDIF investment are distributed according to the donor or institutions’ direction.

Section 11 Management Fee.

- 11.1 The MDIF is exempt from any management fee.

Section 12 Conflicts of Interest on Investments.

- 12.1 It is the policy of TTUS that members of the Board and TTUS employees having authority over or input into the selection of investments or investment firms, shall act in a manner consistent with their responsibilities to TTUS and avoid circumstances in which their financial or other ties to outside persons or entities could present an actual, potential, or apparent conflict of interest or impair the reputation of TTUS.
- 12.2 Board members and TTUS employees should avoid any actions or situations that might result in or create the appearance of using their association with TTUS for private gain, according unwarranted preferential treatment to any outside individual or organization, losing independence or impartiality, or adversely affecting the reputation of or public confidence in the integrity of TTUS. Toward this end, it is the responsibility of each Board member and TTUS employee to ensure that the system is made aware of situations that involve personal, familial, or business relationships that could jeopardize the reputation of or public confidence in TTUS by complying with this policy and making all disclosures and certifications as set forth herein.

Dates Approved or Amended:

-- Initial adoption of policy statement..... TBD



TTUS Investment Performance Update

Penny Harkey, *TTUS Interim Vice Chancellor and CFO*
 November 17, 2022

Asset Class Performance vs Benchmark

August 31, 2022



LTIF Weight vs Target



LTIF Growth vs Global Public Equity



LTIF Stable Value vs Global Public Debt



Long Term Investment Fund (LTIF) as of August 31, 2022

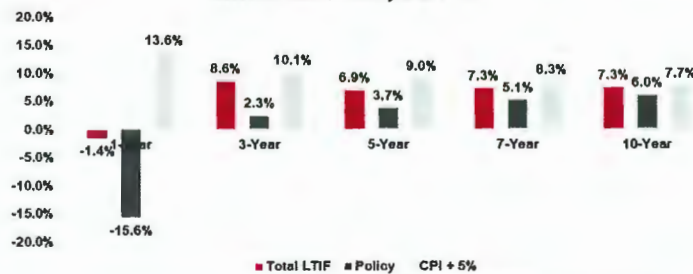


Portfolio Holdings & Performance Overview – August 2022

Reported NAV Monthly 81%, Quarterly 0%, Total 54%

Portfolio Composition	Balance	LTIF Weight	Target	QTD	YTD	1-Year	3-Year	5-Year	7-Year	10-Year
Total LTIF	1,564,200,482.67	100.00%	100.00%	1.38%	-8.68%	-1.43%	8.55%	6.93%	7.25%	7.32%
LTIF Policy Composite				1.23%	-16.21%	-15.58%	2.34%	3.71%	5.12%	5.97%
CPI + 5%				0.92%	9.00%	13.63%	10.11%	8.99%	8.29%	7.66%
LTIF - Growth	901,985,581.24	57.66%	60.00%	1.77%	-10.99%	-3.32%	14.15%	11.01%	10.82%	10.63%
MSCI ACWI TR Net USD				3.04%	-17.75%	-15.88%	8.03%	6.97%	8.41%	8.70%
LTIF - Stable Value	662,214,921.43	42.34%	40.00%	0.89%	-0.14%	1.32%	2.50%	2.74%	3.85%	3.83%
Barclays Global Aggregate USD				-1.90%	-15.55%	-17.61%	-4.39%	-1.46%	0.18%	-0.28%

Total LTIF vs LTIF Policy & CPI + 5



Long Term Investment Fund (LTIF) as of August 31, 2022



Portfolio Composition – August 2022

Portfolio Composition	Balance	Weight	QTD	YTD	1-Year	3-Year	5-Year	7-Year	10-Year
Total	1,564,200,482.67	100.00%	1.38%	-8.68%	-1.43%	8.55%	6.93%	7.25%	7.32%
LTIF Policy Composite			1.23%	-16.21%	-15.58%	2.34%	3.71%	5.12%	5.97%
CPI + 5%			0.92%	9.00%	13.63%	10.11%	8.99%	8.29%	7.66%
LTIF - Growth	901,985,581.24	57.66%	1.77%	-10.99%	-3.32%	14.15%	11.01%	10.82%	10.63%
MSCI ACWI TR Net USD			3.04%	-17.75%	-15.88%	8.03%	6.97%	8.41%	8.70%
LTIF - Public Equity	470,290,810.91	30.07%	3.47%	-21.28%	-19.05%	11.13%	9.42%	10.01%	10.28%
Public Equity - Synthetic - with Alpha Pool P&L	259,279,054.00	16.58%	2.86%	-21.88%	-19.03%	11.40%	9.42%	10.48%	
Public Equity - Active	147,269,252.21	9.41%	5.29%	-21.07%	-20.68%	5.79%	7.18%	8.13%	9.08%
Public Equity - Passive	63,619,881.80	4.07%	2.11%	-14.42%	-12.34%				
Public Equity - Equity Distributions	122,912.00	0.01%	42.07%	-73.53%	-74.21%				
LTIF - Private Equity	348,080,278.20	23.40%	-0.04%	-0.57%	17.98%	23.85%	16.48%	11.64%	11.48%
LTIF - Private Diversifying	65,614,475.02	4.18%	0.00%	22.67%	37.67%	6.53%	6.28%	8.63%	8.28%
LTIF - Stable Value	662,214,921.43	42.34%	0.89%	-0.14%	1.32%	2.50%	2.74%	3.89%	3.83%
Bloomberg Global Aggregate USD			-1.90%	-15.55%	-17.61%	-4.39%	-1.46%	0.18%	-0.28%
LTIF - Public Diversifying Assets	218,247,537.03	13.82%	0.87%	-1.50%	-0.16%	3.21%	3.77%	3.36%	2.47%
LTIF - Public Diversifying Assets - Absolute Return	101,043,189.64	6.46%	0.01%	-5.89%	-4.10%	7.88%	7.08%	8.32%	6.44%
Public Diversifying Assets	99,882,383.36	6.39%	0.59%	1.82%	2.77%	0.92%	2.89%	1.64%	-0.58%
Public Diversifying Assets - Stable Value	15,321,967.03	0.98%	-0.08%	3.28%	3.28%				
LTIF - Private Debt	173,464,070.95	11.09%	0.32%	0.51%	4.23%	5.80%	7.00%	8.28%	7.30%
LTIF - Public Debt	157,259,075.10	10.05%	1.90%	0.33%	1.17%	1.88%	1.65%	3.47%	3.96%
Public Debt	103,035,810.60	6.59%	0.78%	-3.34%	-2.53%	0.92%	0.30%	2.92%	3.57%
Public Debt - Stable Value	54,223,484.50	3.47%	4.52%	12.97%	12.97%				
LTIF Cash	68,895,531.85	4.47%	-0.05%	-0.22%	-0.40%				
LTIF - Cash Collateral Net	37,640,255.76	2.41%	0.88%	-0.48%	-0.70%	0.13%	0.60%	0.51%	0.36%
LTIF Liquidating Funds	7,708,450.74	0.49%	21.17%	44.83%	38.16%				

Long Term Investment Fund (LTIF)

Benchmark Comparisons, as of August 31, 2022



LTIF vs Benchmarks Cumulative Returns



The portfolio since inception in 1996 has met the primary objective of covering the spending (Distribution) rate of 4.5%, while simultaneously growing the endowment.

LTIF Policy Benchmarks:
 60% Equity Global (MSCI ACWI with USA net)
 40% Debt Global Bonds (Barclays Global Agg)

Returns are since inception of the LTIF (9/1/1996)

Fund	Total Return	Annualized Return	Annualized Volatility
LTIF	521.40%	7.28%	9.16%
LTIF Policy Composite	489.54%	7.06%	8.36%
Global 60/40 + 1%	441.78%	6.71%	10.33%
CPI + 5	566.95%	7.57%	1.04%

Comprehensive Cash Pool (CCP)

as of August 31, 2022



Portfolio Holdings & Performance Overview – August 2022

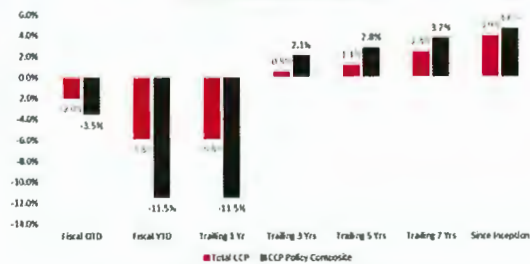
Reported valuation % of Nav : ~99%

Portfolio Composition	Balance	Weight	Target	Fiscal QTD	Fiscal YTD	Trailing 1 Yr	Trailing 3 Yrs	Trailing 5 Yrs	Trailing 7 Yrs	Since Inception	Inception Date
Total Comprehensive Cash Pool	\$ 1,848,841,401	100.0%	100.0%	-1.98%	-5.84%	-5.84%	0.50%	1.12%	2.37%	3.91%	12/31/2008
60% Global 60/40, 40% Bloomberg 1-3 Yr Gov Composite				-3.54%	-11.49%	-11.49%	2.07%	2.78%	3.67%	4.56%	
Cash and Contingency Segment	841,507,695	42.7%	40.0%	0.76%	-0.38%	-3.75%	0.02%	0.48%	0.50%	0.41%	01/31/2012
Cash Segment	290,615,410	12.8%	10.0%	0.00%	0.02%	0.04%	0.93%	1.08%	0.81%	0.53%	
Contingency Segment	550,892,284	30.0%	30.0%	0.29%	0.49%	0.49%	0.49%	0.84%	0.69%	0.44%	11/30/2010
Noncurrent Segment	1,007,333,706	57.3%	60.0%	-1.27%	-5.36%	-5.36%	-0.27%	3.00%	3.40%	0.41%	02/29/2012
Global 60/40				-2.82%	-7.24%	-7.24%	2.04%	2.05%	3.04%	4.26%	12/31/2008
Global 60/40				-5.36%	-16.43%	-16.43%	3.18%	3.79%	5.28%	6.52%	
LTIF Legacy	392,654,529	26.0%	26.0%	-0.10%	1.48%	1.48%	2.52%	1.98%	2.77%	2.68%	05/31/2012
NCS-Only	614,679,177	31.3%	31.3%	-4.85%	-13.85%	-13.85%				-8.39%	05/31/2021

CCP Weight vs Target



CCP Performance vs Benchmarks





TEXAS TECH UNIVERSITY SYSTEM



Report on TTUS Endowments

As of August 31, 2022

Penny Harkey

Interim Vice Chancellor and Chief Financial Officer

November 17, 2022

1

Endowment Funds



Definition:

- Gifts that are invested for long term growth to produce earnings that will last into perpetuity.

Purpose:

- Support strategic mission and goals of institution while also fulfilling philanthropic goals of individual donors.

Benefits:

- Support that will impact both current and future generations.
- Consistent and stable source of revenue that will last into perpetuity.

Investment Performance:

- Prioritizes long-term growth to provide reliable funding over time.

2

Endowment Funds

Financial Management/Oversight



TTUS Vice Chancellor and CFO (Treasurer of TTFI) oversees all financial functions related to Endowment Fund Management

IA Financial Services & Stewardship/Compliance

- Annual Compilation/Distribution of Endowment Reports to Donors
- Manage endowment pledge reminders/collections
- Review setup of all new endowment funds

- Total Value in excess of \$1.7B
- More than 5,000 separate endowment funds across all TTUS Components
- 4,000+ Individual Endowment Reports prepared each year
- Annual audit by external audit firm (Foundation Endowments)

TTUS Accounting & Reporting

- Calc/Process quarterly endowment distributions
- Manage all exceptions outside of LTIF Policy
- Year end profit/loss calculations/entry
- TTUS Consolidated Annual Financial Report schedules

TTUS Investment Office

- All areas of endowment fund investments
- Performance Reports to BOR, IRC, Foundation

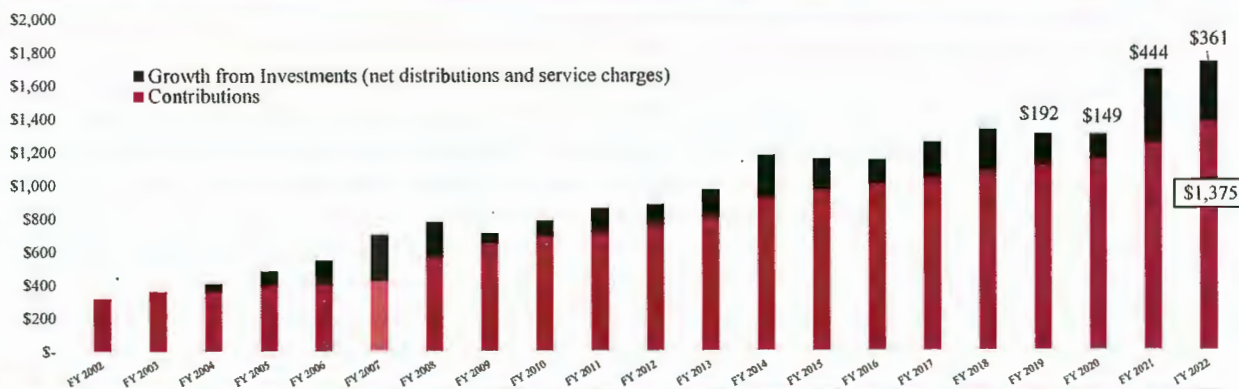
The Financial Management Structure for TTUS Endowments provides:

- Appropriate separation of duties
- Enhanced internal controls and financial compliance
- System level service/support to components on all matters related to endowments

The **TTUS Board of Regents** have fiduciary responsibilities over all funds managed by the TTU System, including endowment funds.

TTU System Total Endowment

FY 2002 – FY 2022, (in Millions)



(in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Contributions	302	348	358	391	396	419	563	644	688	714	758	805	917	968	1,001	1,040	1,075	1,113	1,151	1,248	1,375
Growth from Investments	15	11	50	93	152	280	217	66	97	146	126	168	263	188	149	216	256	192	149	444	361
Total Endowment	317	359	408	484	548	699	780	710	785	860	884	973	1,180	1,156	1,150	1,256	1,331	1,305	1,300	1,692	1,736

TTUS Total Endowment Activity

As of August 31, 2022, (in Millions)



Endowment Activity (in millions)	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Beginning Fair Market Value	\$1,179.5	\$1,155.7	\$1,150.3	\$1,256.3	\$1,331.0	\$1,304.9	\$1,300.4	\$1,692.5
Contributions Received	\$50.5	\$33.8	\$38.4	\$35.4	\$38.0	\$38.1	\$97.3	\$126.2
Investment Returns <i>Realized and Unrealized gains/(losses)</i>	(\$20.9)	\$18.8	\$126.8	\$100.2	(\$0.7)	\$23.7	\$363.7	(\$9.0)
Distributions/Payout	(\$47.4)	(\$51.1)	(\$52.2)	(\$53.7)	(\$55.9)	(\$58.4)	(\$60.7)	(\$65.1)
Management Fee	(\$6.0)	(\$6.9)	(\$7.0)	(\$7.2)	(\$7.5)	(\$7.9)	(\$8.2)	(\$8.9)
Ending Fair Market Value	\$1,155.7	\$1,150.3	\$1,256.3	\$1,331.0	\$1,304.9	\$1,300.4	\$1,692.5	\$1,736

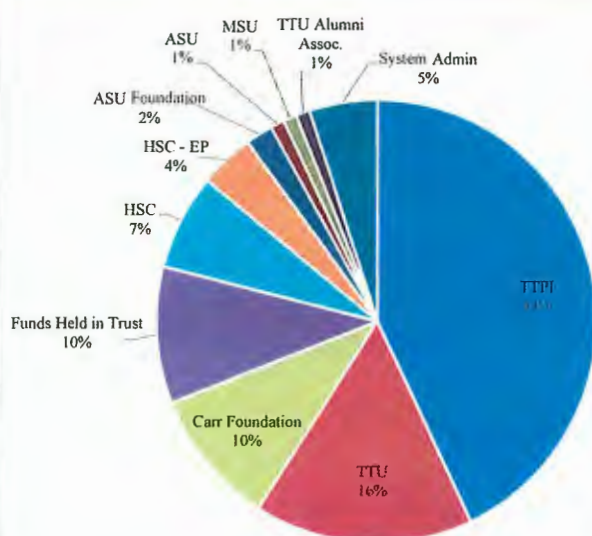
TTUS Long-Term Investment Fund Performance (%)

FY 20XX	1 - Year	3 - Year	5 - Year	10 - Year
FY 2022	-1.43%	8.55%	6.93%	7.32%
FY 2021	27.72%	9.03%	9.84%	7.78%
FY 2020	1.15%	3.40%	5.24%	6.09%
FY 2019	0.18%	7.31%	4.87%	6.90%
FY 2018	9.06%	8.30%	7.69%	5.88%

5

TTUS Total Endowment by Entity

As of August 31, 2022

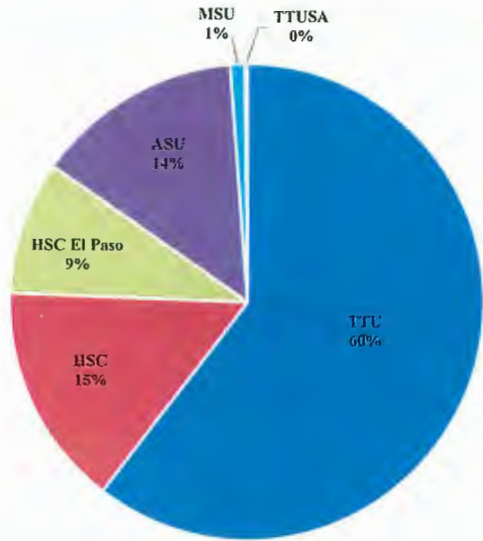


Institution	Total Endowment (\$)	(%)
TTFI	753,924,404	43%
TTU	282,126,922	16%
Carr Foundation	170,400,047	10%
Funds Held in Trust	169,400,231	10%
HSC	119,132,780	7%
HSC EP	63,302,950	4%
ASU Foundation	37,098,360	2%
ASU	20,174,145	1%
MSU	18,206,730	1%
TTU Alumni Assoc.	10,039,004	1%
System Admin	91,810,482	5%
TTUS Total Endowment	\$1,735,616,054	100%

6

TTUS Total Endowment by Component

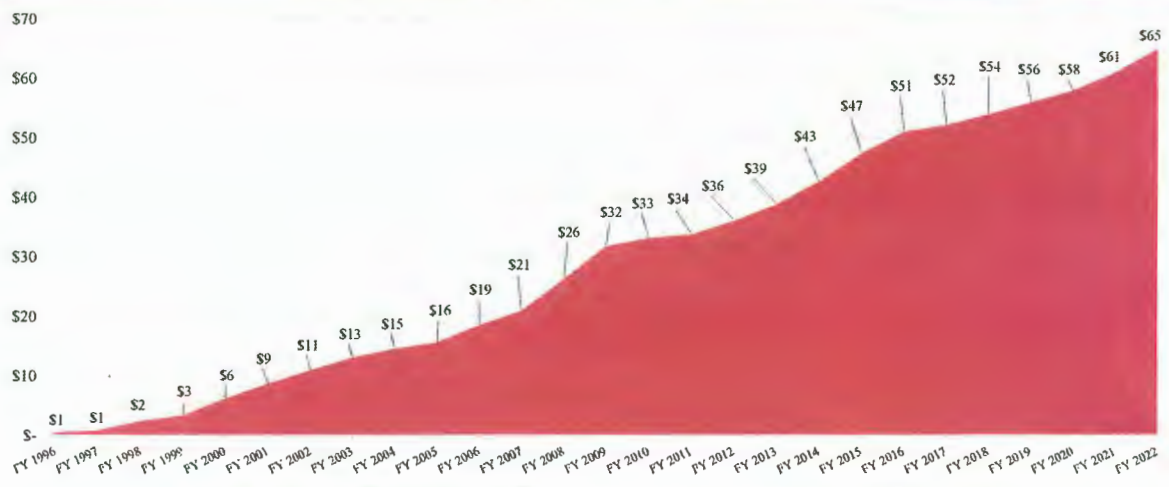
As of August 31, 2022

Component	Total Endowment (\$)	(%)
TTU	1,046,917,283	60%
HSC	263,136,088	15%
HSC EP	160,765,257	9%
ASU	243,368,911	14%
MSU	18,206,730	1%
TTU System Admin	3,221,785	0.19%
TTUS Total Endowment	\$1,735,616,054	100%

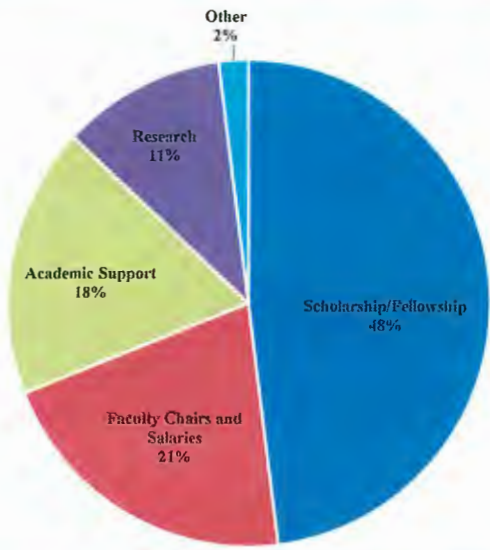
Distributions to Component Institutions

FY 1996 - FY 2022 (in millions)

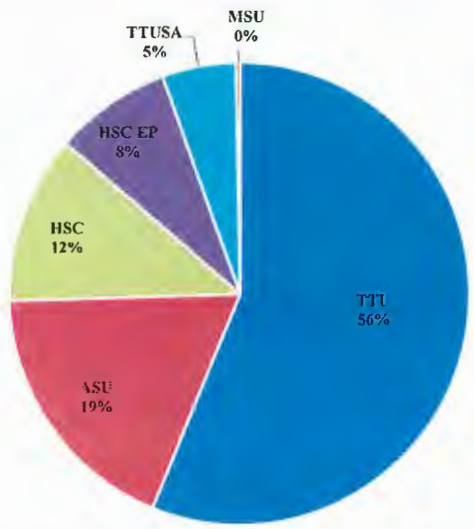
- Through careful stewardship, the target distribution rate of **4.5%** has been realized **EVERY** year since inception
- Over **\$803M in total earnings** paid since inception of LTIF in FY 1996
- Increases in total distributions realized **EVERY** year since inception

TTUS Total Endowment by Type



➤ Almost 50% of total TTUS Endowment dedicated to scholarship support

Endowment Distribution by Component As of August 31, 2022



Component	Total Distributions (\$)	(%)
TTU	36,607,919	56%
ASU	11,917,995	18%
HSC	7,656,604	12%
HSC EP	5,321,531	8%
TTU System Admin	3,401,080	5%
MSU	194,785	0.30%
TTUS Total Distributions	\$65,099,915	100%



Questions?

11



TEXAS TECH UNIVERSITY SYSTEM

12



Office of Audit Services 2022 Annual Report

November 17, 2022

Kimberly F. Turner, CPA



Overview of the Office of Audit Services

Independence

- Direct reporting line to Board of Regents
- Board approval of annual audit plan and activities
- Properly resourced
 - 17 auditors, \$1.9 million budget

Responsibility

- Internal auditors for TTUSA and its institutions
- Coordination of external and state audits



Overview of the Office of Audit Services

Accountability

- Periodic reports to Board and management
- Annual report to various state agencies, Board of Regents, and senior management
- Internal quality assurance measures
- Triennial peer review

Due Professional Care

- Texas Internal Auditing Act
- Generally Accepted Governmental Auditing Standards
- Institute of Internal Auditors (IIA) Standards
- Alignment of audit work with institutional strategic plans

Audit Coverage of Strategic Priorities

STRATEGIC PRIORITIES	2022 COMPLETED AUDIT, CONSULTING, OR OTHER VALUE-ADDED PROJECTS
Research and Creative Scholarship	<ul style="list-style-type: none"> <i>TTUS CPRT Grant Funds</i> <i>TTUHSC Clinical Research Institute</i>
Finance and Administration	<ul style="list-style-type: none"> <i>TTUS Contracting and Procurement Processes for FY 2022</i> <i>TTUS Banner Vendor Table Processes</i> <i>TTUS Compliance with Benefits Proportional by Fund Requirements</i> <i>TTU, TTUHSC, TTUHSC EP, ASU and MSU Payment Card Industry Data Security Standard Compliance</i> <i>TTU Jones AT&T Stadium Private Club & Gameday Premium Concessions Procurement Process</i> <i>TTUHSC Lubbock Department of Otolaryngology</i> <i>TTUHSC Amarillo Campus Departments</i> <i>TTUHSC and TTUHSC EP Federal Stimulus Funding</i> <i>TTUHSC Correctional Managed Health Care</i> <i>TTUHSC EP Medical Practice Income Plan Business Office Write-Off Controls and Processes</i> <i>TTUHSC EP Institutional Advancement Check Depositing Processes</i> <i>TTUHSC EP Dental Electronic Health Record Project Implementation Review</i> <i>TTUHSC EP Information Technology Department of Business Processes</i> <i>ASU Conflict of Interest Processes</i> <i>ASU Porter Henderson Library</i> <i>ASU Property Inventory Validation</i> <i>MSU Federal Stimulus CARES Act CRRSAA Funding</i>



Audit Coverage of Strategic Priorities

STRATEGIC PRIORITIES	2022 COMPLETED AUDIT, CONSULTING, OR OTHER VALUE-ADDED PROJECTS
Student Success and Academic Quality	<i>TTU Intercollegiate Athletics</i> <i>TTU Institutional Reporting Processes</i> <i>TTU/HSC EP Student Financial Assistance Cluster Program for 2021</i> <i>ASU Carr Foundation 2021 Financial Statements</i> <i>ASU State and Institutional Financial Aid Grant Compliance</i>
Facilities	<i>TTU/S Closout Construction Costs TTU Jones AT&T Stadium East Side Finish-out</i> <i>TTU/S Closout Construction Costs TTU Dustin R. Womble Basketball Practice Facility</i> <i>TTU/S Closout Construction Costs TTU School of Veterinary Medicine (Amarillo & Marposa Campuses)</i> <i>TTU Texas Higher Education Coordinating Board Facilities Audit</i>
Outreach and Engagement	<i>Texas Tech Foundation, Inc.</i> <i>TTU Texas Tech Public Media</i> <i>TTU/HSC Telehealth Information Technology Controls</i> <i>ASU Foundation, Inc.</i> <i>ASU Salesforce Application Security and Controls</i> <i>MSU Academic Outreach and Distance Education</i>



Overview of the Office of Audit Services

17 Auditors

- 10 with Master's degrees
- 209 years of combined career experience
 - 148 combined years with TTUS and its institutions*
- Certifications
 - 9 Certified Public Accountants* *6 Certified Internal Auditors*
 - 1 Certified Fraud Examiner* *2 Certified Information Systems Auditors*
 - 1 Certified Information Systems Security Professional*
 - 1 Certified Government Auditing Professional*
 - 1 Chartered Global Management Accountant*



Professional Commitment & Leadership

National

- ACUA Faculty Member and conference speaker
- ACUA Mentor
- ACUA Sideline Committee

State

- Texas Association of College & University Auditors – Board Secretary

Local

- South Plains Chapter of TXCPA – President
- High Plains Chapter of The Institute of Internal Auditors – President, Vice President & Programming Officer, Membership & Certification Officer
- El Paso Area Chapter of the Association of Certified Fraud Examiners – President, Director
- Wichita Falls Symphony Orchestra – Board Member
- Leadership Lubbock Class of 2022
- Texas Tech Federal Credit Union – Board Secretary
- Covenant Health System – Board Member



TEXAS TECH UNIVERSITY SYSTEM

Angelo State University

Item 1

Approve expenditures of the Carr Hall Renovation project for Design-Build Stage II design services and GMP for Bid Package 1 – Selective Demolition and Early Equipment Package

Billy Breedlove



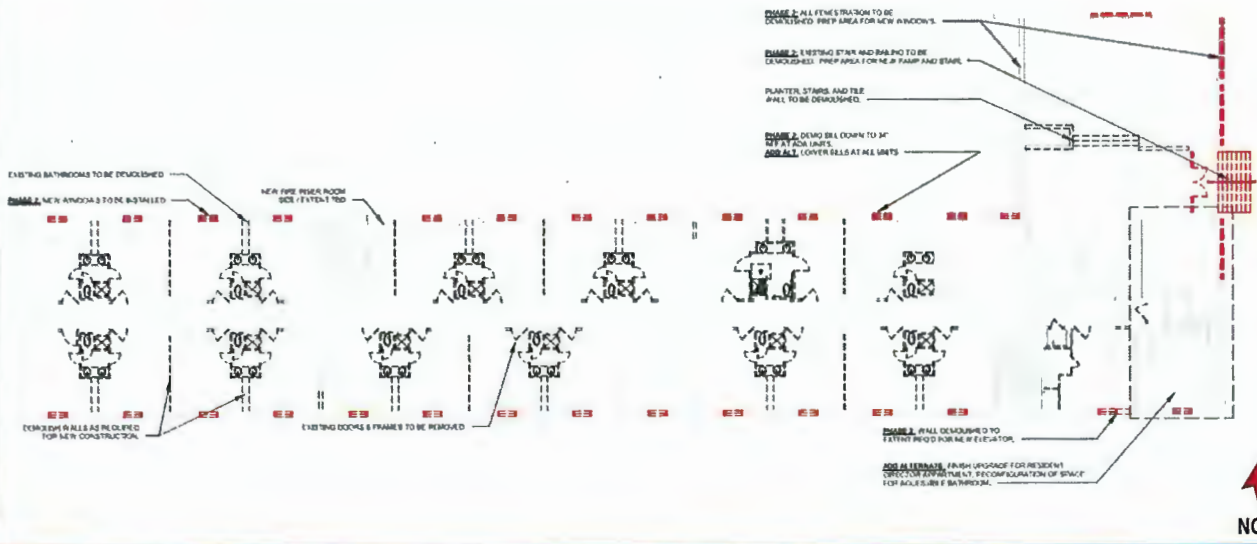
Carr Hall

Item 1



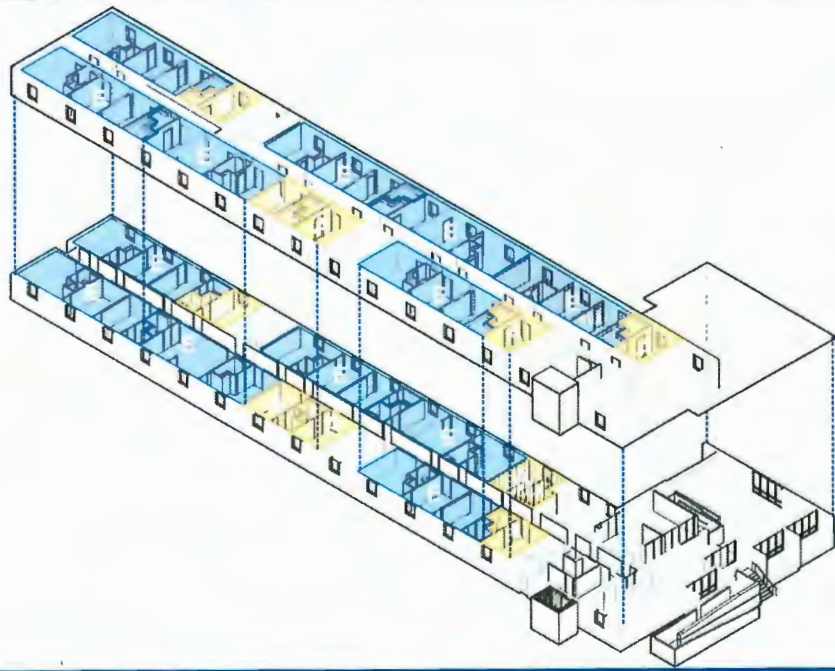
Item 1

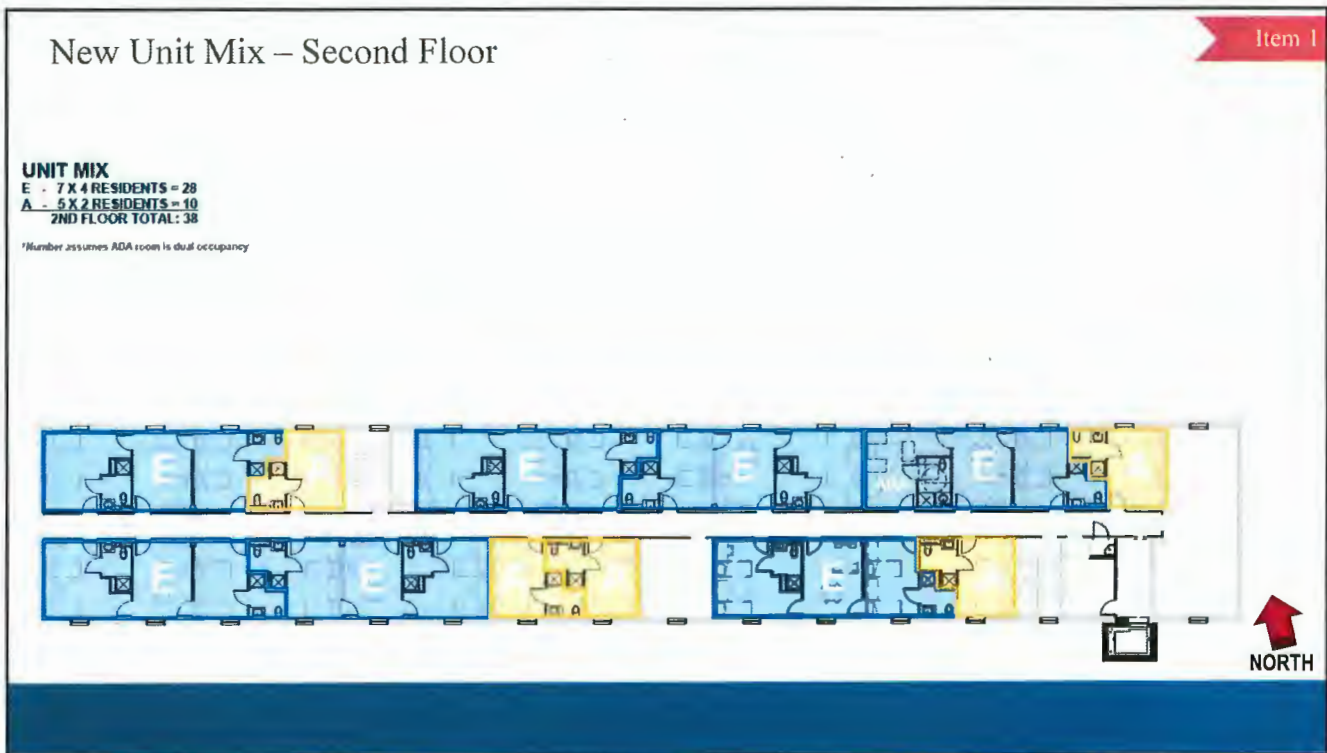
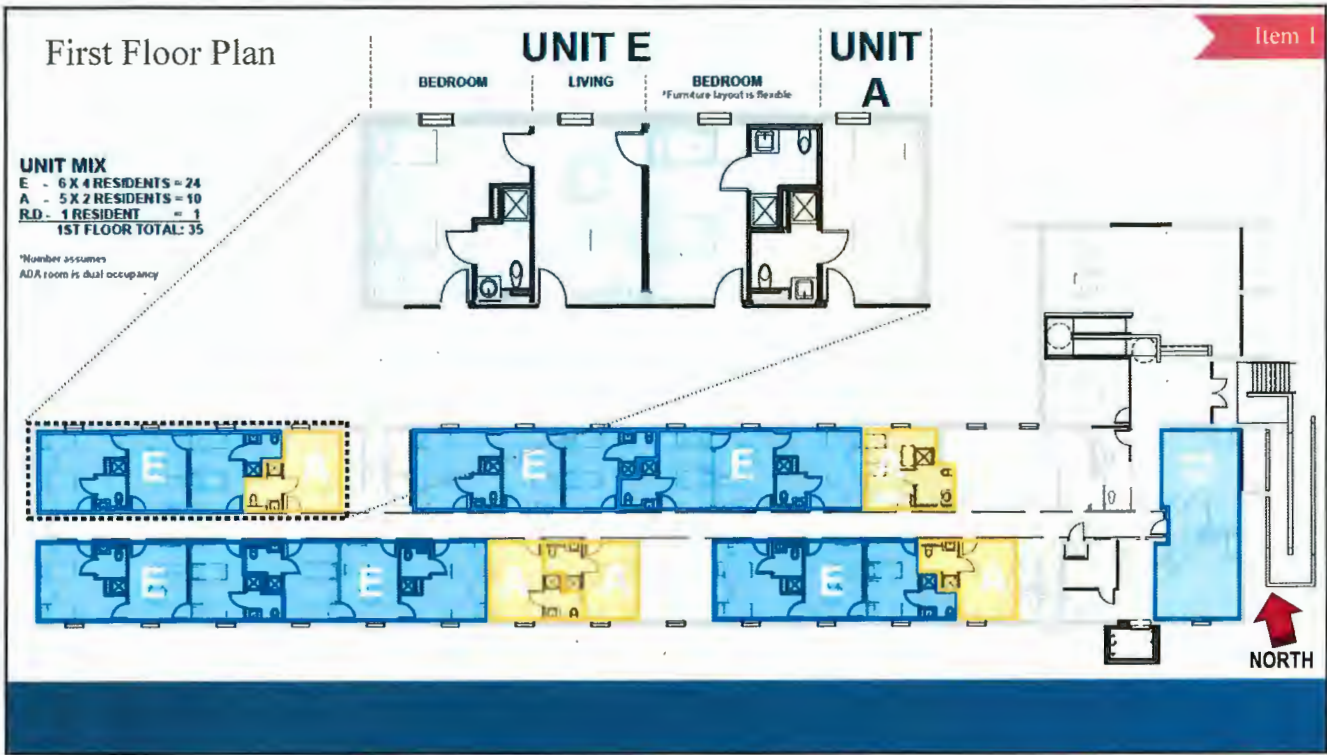
First Floor Demolition Plan



Item 1

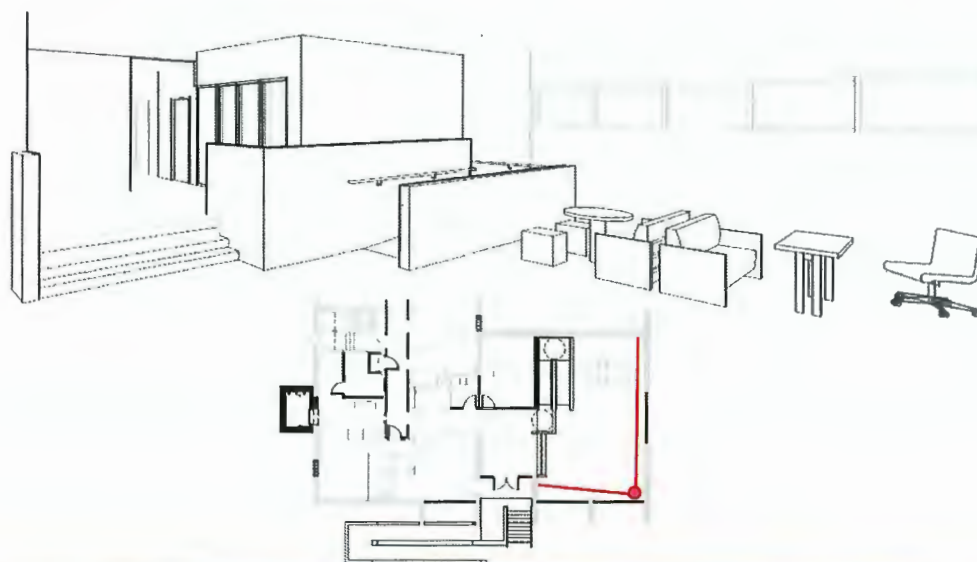
Unit Mix - Isometric





Commons Area – 3D View

Item 1



Scope of Services

Item 1

- Amend the Design-Build Agreement to:
 - Authorize Stage II design services –
 - Design Development (“DD”);
 - Construction Documents (“CD”);
 - Construction Administration (“CA”) phases; and
 - Provide a Statement of Probable Cost.
 - Accept the GMP for Bid Package 1 – Selective Demolition and Early Equipment Package.

Project Overview

Item 1

- Complete interior renovation of Carr Hall, a 20,960 GSF, two-story structure built in 1959. The project will modernize the campus residential facility with an anticipated 73-bed count.
- The renovation will include:
 - Existing residence hall rooms to meet the current housing trends;
 - Lobby, office, and common spaces;
 - HVAC distribution system and controls;
 - Plumbing distribution and fixtures;
 - Electrical distribution / switchgear, network cabling & technology upgrades;
 - Life safety systems - fire alarm, fire suppression, elevator;
 - Accessibility compliance; and
 - Furniture, fixtures, and equipment.

Project Budget

Item 1

	BOR Approved August 2022	Additional Request	Revised Budget
	\$ 167,194	\$ 1,928,839	\$ 2,096,033
Construction	\$ 40,000	\$ 1,322,635	\$ 1,362,635
Professional Services	\$ 86,000	\$ 465,500	\$ 551,500
FF&E	\$ 0	\$ 0	\$ 0
Administrative Cost	\$ 29,500	\$ 5,800	\$ 35,300
BOR Directed Fees* (2.4% FP&C Fee)	\$ 3,919	\$ 45,207	\$ 49,126
Contingency	\$ 7,775	\$ 89,697	\$ 97,472

* Fee for 1% Landscape Enhancements and 1% Public Art - Waived

Recommendation

Item 1

- Approve (i) expenditures of \$1,928,839 for a total of \$2,096,033 for the Carr Hall Renovation project, with an anticipated project budget of \$6,800,000; and (ii) authorize and amend the Design-Build Agreement for the Stage II design services and accept the Guaranteed Maximum Price (“GMP”) for Bid Package I – Selective Demolition and Early Equipment Package.
- The total expenditures of \$2,096,033 which includes the previously approved \$167,194 will be funded with Institutional Cash and Higher Education Emergency Relief Fund (“HEERF”) funds.

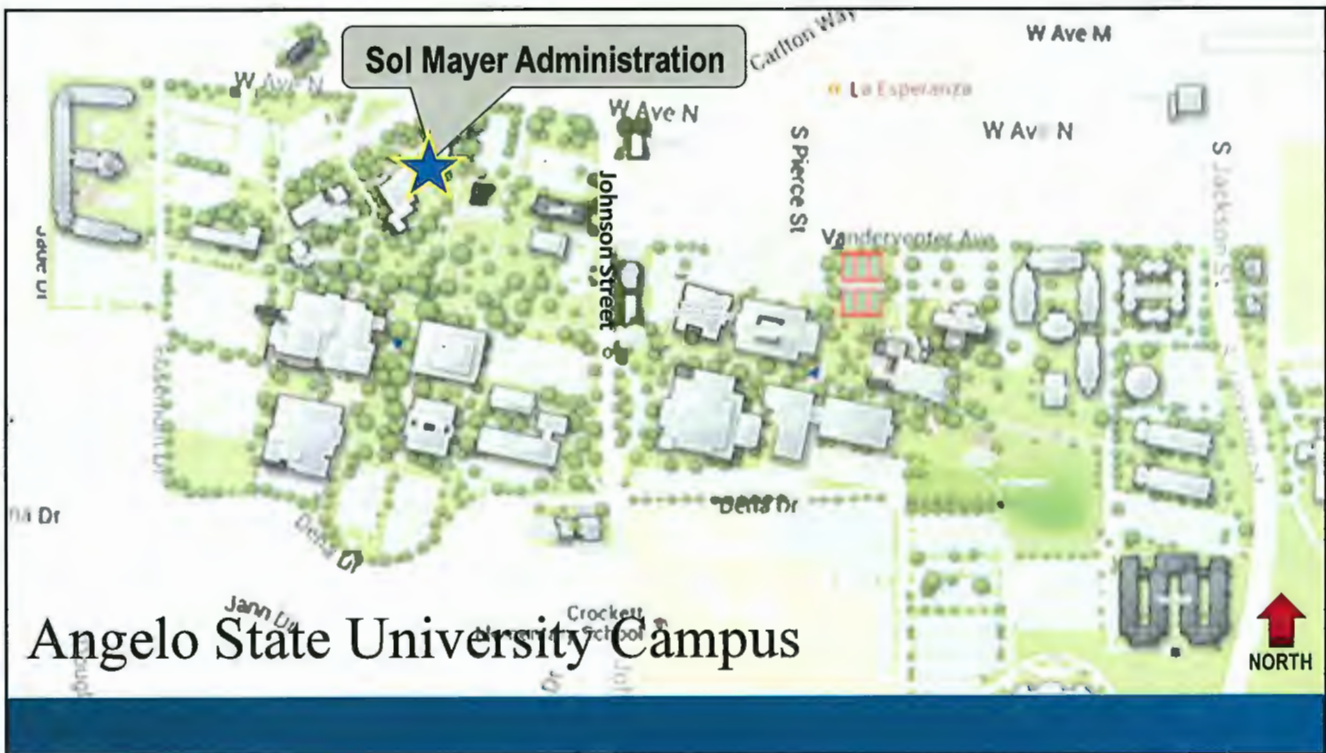


Angelo State University

Item 2

Authorize expenditures of the Elta Joyce Murphey Auditorium Renovation project for Design Professional Stage I design services

Billy Breedlove



Item 2



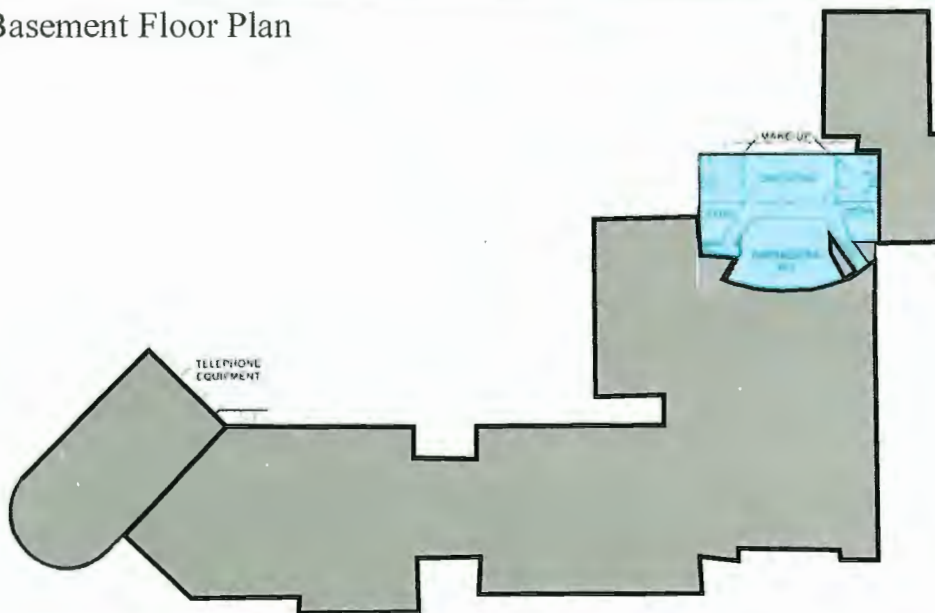
Sol Mayer Administration Building

Elta Joyce Murphey Auditorium



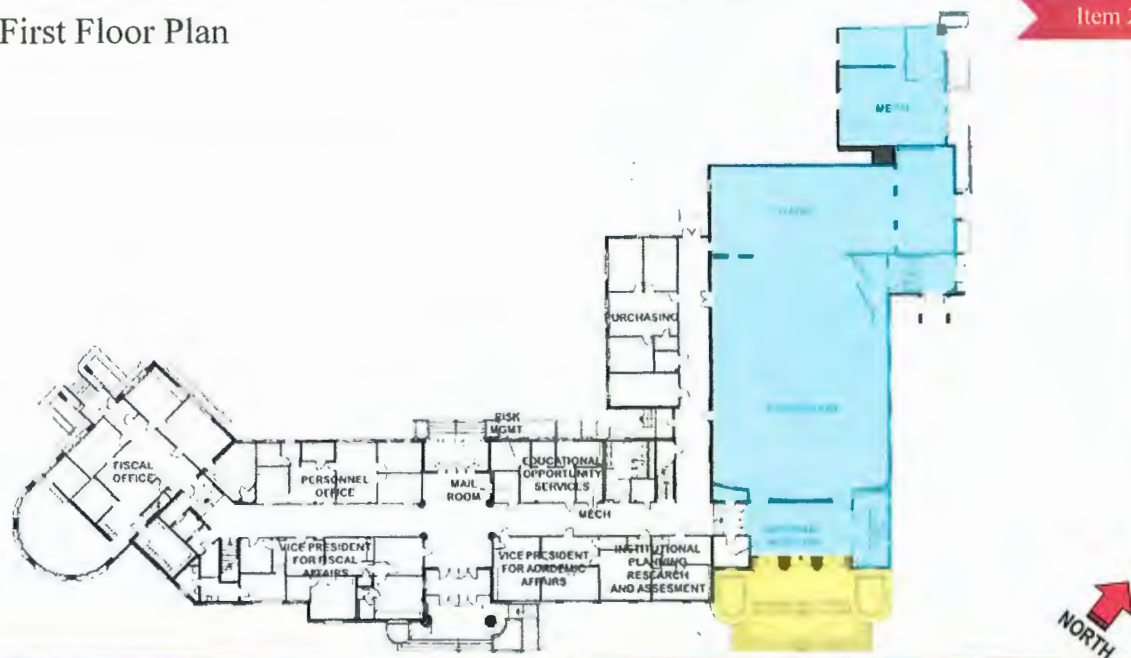
Existing Basement Floor Plan

Item 2



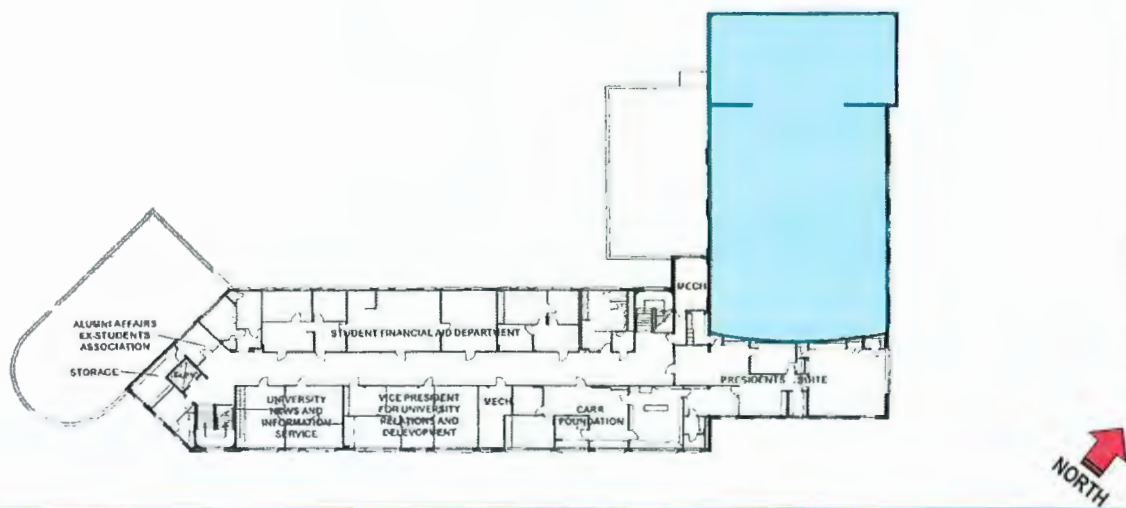
Existing First Floor Plan

Item 2



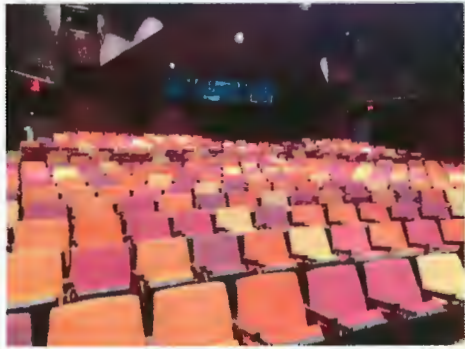
Existing Second Floor Plan

Item 2



Auditorium Interior Photos

Item 2



Lobby Interior Photos

Item 2



Scope of Services

Item 2

- Execute a Design Professional Agreement, and authorize Stage I design services in order to move forward on the project's vision through:
 - Programming;
 - Schematic Design ("SD");
 - Provide a Statement of Probable Cost; and
 - Project Schedule.

Project Overview

Item 2

- Project will provide life/safety and accessibility code review and analysis, programming, and design for the existing 8,205 SF, 400+ seat auditorium theatre with support spaces located inside the Sol Mayer Administration Building built in 1947.
- Proposed renovation of 5,679 SF, excluding the stage proper and below stage areas (dressing rooms, restrooms, etc.).
- Expand building by approximately 598 GSF to accommodate additional restroom facilities for theater occupancy, accessibility and plumbing code compliance.

Project Overview (cont.)

Item 2

- Update the lobby with new finishes, and lighting.
- Auditorium will be remodeled for accessibility compliance.
- Rework the auditorium’s main entrance to include new steps, and a TAS compliant ramp.
- Additional electrical, mechanical and plumbing distribution and fixtures.

Project Budget

Item 2

	Budget
	\$ 195,596
Construction	\$ 6,000
Professional Services	\$ 173,120
FF&E	\$ 0
Administrative Cost	\$ 6,328
BOR Directed Fees* (2.4% FP&C Fee)	\$ 4,584
Contingency	\$ 5,564

* Fees for 1% Landscape Enhancements and 1% Public Art – Waiver Requested

Recommendation

Item 2

- Approve (i) expenditures of \$195,596 in order to provide planning and design services for the Elta Joyce Murphey Auditorium Renovation project, with an anticipated project budget of \$6,000,000; (ii) waive the use of a Construction Manager Agent (“CMA”); (iii) waive the board directed fee for landscape enhancements; (iv) waive the board directed fee for public art; and (v) award the Design Professional Agreement and authorize Stage I design services.
- The expenditures will be funded through the Revenue Finance System (“RFS”) repaid with gifts and Higher Education Funds (“HEF”).

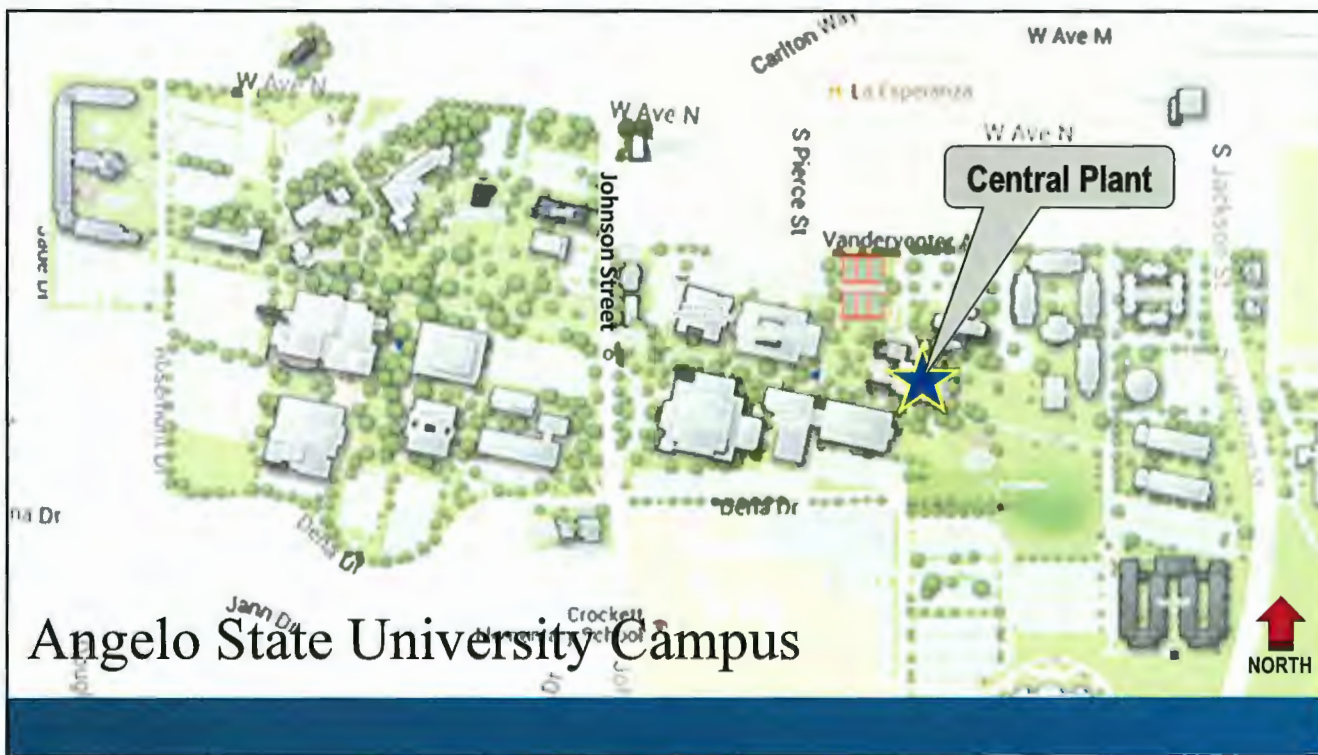


Angelo State University

Item 3

Authorize expenditures of the Central Plant Renovations and Additions project for Design-Build Stage I design services and Pre-construction services

Billy Breedlove



Scope of Services

Item 3

- Execute a Design-Build Agreement to proceed with the following:
 - Stage I design services to include:
 - Programming;
 - Schematic Design ("SD");
 - Statement of Probable Cost; and
 - Project Schedule.
 - Pre-construction services to include:
 - Project evaluation and site analysis;
 - Constructability review;
 - Cost control; value engineering;
 - Scheduling; and
 - Development of a Guaranteed Maximum Price ("GMP").

Project Overview

Item 3

- The existing plant will receive new chilled water & heating water equipment, variable speed centrifugal chiller with chilled water pumps, gas-fired boilers, heating water pumps, and condenser fluid pumps, upgrade electrical equipment, and replace the existing evaporative cooling towers with more efficient water & energy cooling towers.
- Piping will be configured to obtain more flexibility & redundancy between the chillers, chilled water pumps & condensing fluid pumps.
- The Building Automation System will be upgraded.
- The necessity for a new supplemental utility plant is being analyzed based on supply and demand models to resolve flow issues on the expanding west end of campus.

Project Budget

Item 3

	Budget
	\$ 1,003,550
Construction	\$ 219,586
Professional Services	\$ 661,350
FF&E	\$ 0
Administrative Cost	\$ 10,000
BOR Directed Fees* (2.4% FP&C Fee)	\$ 23,520
Contingency	\$ 89,094

** Fees for 1% Landscape Enhancements and 1% Public Art – Waiver Requested*

Recommendation

Item 3

- Authorize (i) initiation of the Central Plant Renovations and Additions project through the Capital Construction Assistance Projects (“CCAP”); (ii) approve expenditures of \$1,003,550 in order to provide planning and Stage I design services for the Central Plant Renovations and Additions project, with an anticipated project budget of \$36,000,000; (iii) waive the board directed fee for landscape enhancements; (iv) waive the board directed fee for public art; (v) award a Design-Build Agreement; and (vi) authorize Stage I design services and pre-construction services.
- The expenditures will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects Legislative appropriations.



Midwestern State University

Item 4

Authorize expenditures of the Bolin Hall Renovation and Expansion project for Design-Build Stage I design services and Pre-construction services

Billy Breedlove



Bolin Hall









Item 4



First Floor - Current Departmental Plan

Item 4

LEGEND







-  Geosciences
-  Computer Sciences
-  Mathematics
-  Administration
-  Multi-Use Classrooms
-  Chemistry / Physics
-  Biology
-  USGS



Second Floor - Current Departmental Plan

Item 4

LEGEND









-  Geosciences
-  Computer Sciences
-  Mathematics
-  Administration
-  Multi-Use Classrooms
-  Chemistry / Physics
-  Biology
-  USGS



Third Floor - Current Departmental Plan

Item 4

LEGEND

-  Geosciences
-  Computer Sciences
-  Mathematics
-  Administration
-  Multi-Use Classrooms
-  Chemistry / Physics
-  Biology
-  USGS



Scope of Work

Item 4

- **Design-Build Agreement to proceed with the following:**
 - Stage 1 design services to include:
 - Programming;
 - Schematic Design ("SD");
 - Statement of Probable Cost; and
 - Project Schedule.
 - Pre-construction services to include:
 - Project evaluation and site analysis;
 - Constructability review;
 - Cost control; value engineering;
 - Scheduling; and
 - Development of a Guaranteed Maximum Price ("GMP").

Project Overview

Item 4

- Partial renovation of approximately 45,000 to 55,000 GSF of the existing building and provide approximately 15,000 to 21,000 GSF of new space to address programmatic needs of the sciences and math departments.
- Execution of a Facility Assessment Report will identify the following issues:
 - Building systems, life/safety systems, and energy code;
 - Mechanical, electrical, and plumbing;
 - IT/AV technology; and
 - Accessibility.
- Upon completion of comprehensive Facility Assessment Report, TTUS and MSU will make informed 'best value' decisions regarding the prioritized scope of the work.

Project Overview (cont.)

Item 4

- A significant part of the project's scope is to upgrade, replace, and retro-commission the existing mechanical, electrical, and plumbing building systems to gain energy efficiencies as well as comply with the current energy and building codes. This will include:
 - Addition to a recently installed partial fire sprinkler system, replacement of the pneumatic control system with Andover digital controls;
 - Replacement/retrofit of air handling equipment;
 - Upgrade of electrical switchgear and transformers;
 - Replacement of the existing network system;
 - Provide a new temperature control system for the greenhouse; and
 - Accessibility upgrades.

Project Budget

Item 4

	Budget
	\$ 1,213,203
Construction	\$ 349,990
Professional Services	\$ 753,379
FF&E	\$ 0
Administrative Cost	\$ 22,367
BOR Directed Fees (1% Landscape Enhancements, 1% Public Art, and 2.4% FP&C Fee)	\$ 37,534
Contingency	\$ 49,933

Recommendation

Item 4

- Authorize (i) initiation of the Bolin Hall Renovation and Expansion project through the Capital Construction Assistance projects (“CCAP”); (ii) approve expenditures of \$1,213,203 in order to provide planning and Stage I design services for the Bolin Hall Renovation and Expansion project, with an anticipated project budget of \$38,656,000; (iii) award a Design-Build Agreement; and (iv) authorize Stage I design services and pre-construction services.
- The expenditures will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects Legislative appropriations.



Midwestern State University

Item 5

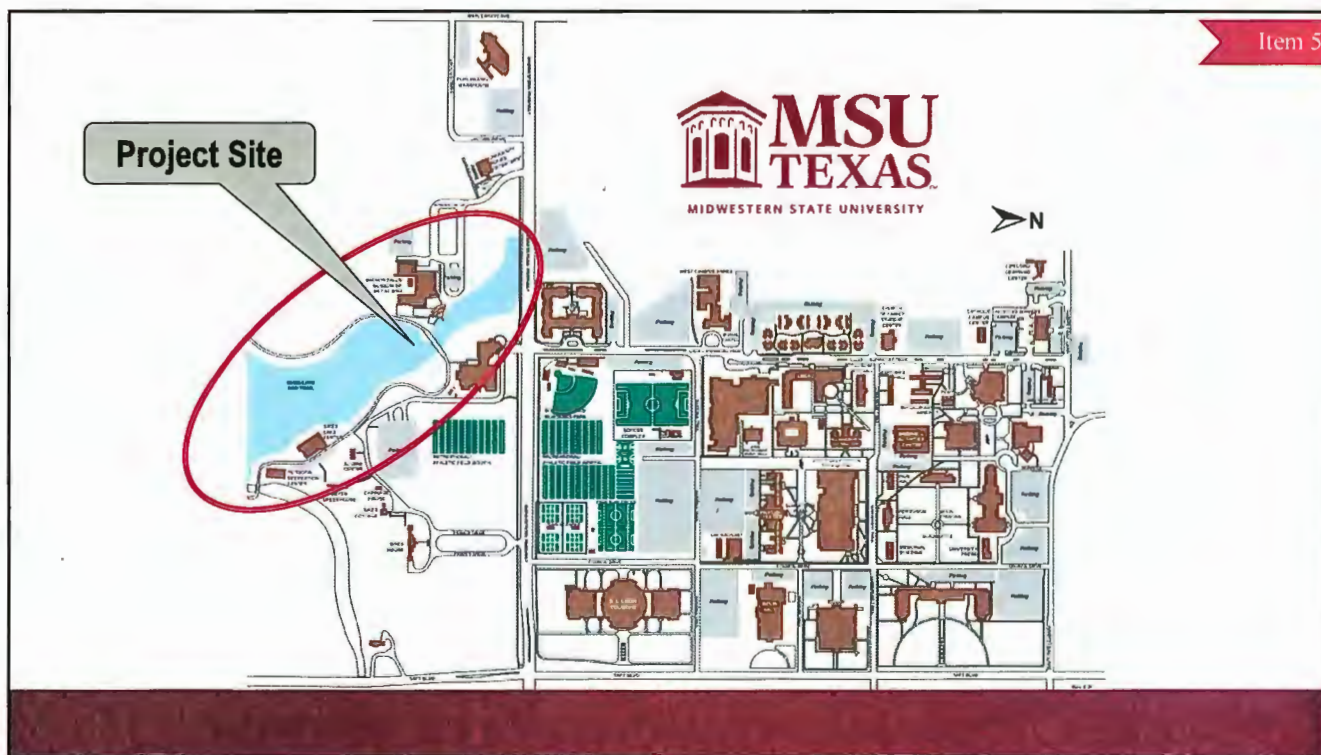
Approve exception to *Regents' Rules* for the Sikes Lake Dredging project

Billy Breedlove and Beth Reissenweber



Item 5

Project Site



Photos of Sikes Lake

Item 5



Project Overview

Item 5

- Project will dredge Sikes Lake, a 21-acre campus lake, to remove 20-years of accumulated silt.
- Process will help improve and preserve the ecosystems in the lake.
- Remove dead plants and vegetation, trash, silt accumulation and other debris.
- Dredging helps improve water quality, support wildlife, and promote student & faculty research.

Recommendation

Item 5

- Approve (i) exception to the *Regents' Rules*, Section 08.01.3, in order for the project to be managed by the Midwestern State University Facilities Services in lieu of TTU System Facilities Planning and Construction office; (ii) waive the use of a Construction Manager-Agent ("CMA"); (iii) waive the board directed fee for landscape enhancements; (iv) waive the board directed fee for public art; (v) report the project to the Board of Regents at regular meetings; and (vi) upon scope verification and available funding for the project, report the project's anticipated budget to the Board of Regents.



Texas Tech University

Item 6

Approve exception to *Regents' Rules* and the total project budget for the Science Building Renovation project

Billy Breedlove



Science Building

Item 6



Project Overview

Item 6

- The renovation project is budgeted at \$16,181,000 and will involve work in an occupied building with multiple contractors working under various approved contracts available to the university.
- Scope of work is anticipated to extend over a 3 to 4-year period.
- The budget includes the following items:
 - HVAC and building controls upgrades;
 - Abate and replace flooring;
 - Exterior building repairs;
 - Accessibility upgrades;

Project Overview (cont.)

Item 6

- Renovate machine & technology shops;
- Renovate classrooms and class labs;
- Elevator and machine room upgrades;
- Electrical upgrades and emergency generator; and
- Life safety upgrades (fire sprinkler, fire alarms, etc.).

Existing Interior Photos

Item 6



Machine Shop



Class Lab

Existing Interior Photos (cont.)

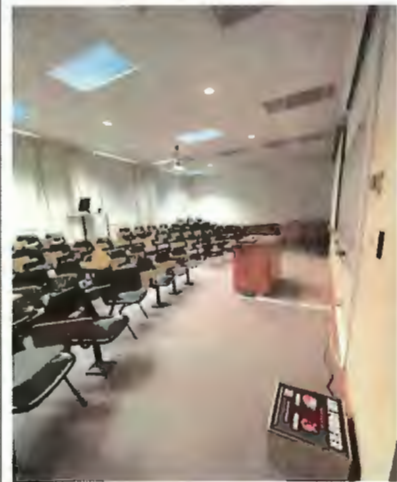
Item 6



Restroom



Hallway



Classroom

Recommendation

Item 6

- Authorize (i) initiation of the Science Building Renovation project through the Capital Construction Assistance Projects (“CCAP”); (ii) approve exception to the *Regents’ Rules*, Section 08.01.3, in order for the project to be managed by Texas Tech University Operations Division in lieu of TTU System Facilities Planning and Construction office; (iii) waive the use of a Construction Manager-Agent (“CMA”); (iv) waive the board directed fee for landscape enhancements; (v) waive the Board directed fee for public art; (vi) report the project to the Board of Regents at regular meetings; (vii) report the project to the Texas Higher Education Coordinating Board (“THECB”); and (viii) authorize a total project budget of \$16,181,000 for the Science Building Renovation project.
- The expenditures will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects Legislative appropriations.



Texas Tech University

Item 7

Approve honorary naming of the Athletics' Track & Field Administrative Offices – "Corky Oglesby Track & Field"

Patrick Kramer and Kirby Holcutt



Sports Performance Center – West Side Elevations

Item 7



Looking Southeast

Looking Northeast



Artist Rendering

Item 7



Recommendation

Item 7

- Approve honorary naming the Texas Tech University Department of Athletics' Track & Field Administrative Offices the "Corky Oglesby Track & Field", in honor of Corky Oglesby's legacy and in recognition of multiple donations made in his honor.
- Signage will specify the approved name.



Texas Tech University Health Sciences Center

Item 8

Authorize expenditures of the Laboratory Animal Resources Center (“LARC”) Expansion project for Design Professional Stage I design services

Billy Breedlove



Basement Plan

Pod C Pod B

Item 8



Project Overview

Item 8

- Project to expand the Lubbock LARC space to meet the future needs of the TTUHSC research community and to aid in expansion and elevation of Biomedical Research at TTUHSC.
- Project will incorporate innovative technologies and modern built-in equipment necessary for the future needs of the principal investigators.
- An approximate 12,600 GSF expansion will create a facility with complete bio-exclusion (barrier) from the existing LARC. This separation requires a decontamination room and bulk autoclave be installed separating the two spaces but allowing for sterilization/decontamination of consumables and equipment entering the new space.
- Existing rooms along the east side of the hallway will be incorporated into the new space.

Project Budget

Item 8

	Budget
	\$ 340,839
Construction	\$ 0
Professional Services	\$ 279,620
FF&E	\$ 0
Administrative Cost	\$ 22,972
BOR Directed Fees* (2.4% FP&C Fee)	\$ 7,988
Contingency	\$ 30,259

* Fees for 1% Landscape Enhancements and 1% Public Art – Waiver Requested

Recommendation

Item 8

- Authorize (i) initiation of the Laboratory Animal Resources Center (“LARC”) project through the Capital Construction Assistance Projects (“CCAP”); (ii) approve expenditures of \$340,839 in order to provide planning and Stage I design services for the Laboratory Animal Resources Center (“LARC”) project, with an anticipated project budget of \$15,000,000; (iii) waive the use of a Construction Manager Agent (“CMA”); (iv) waive the board directed fee for landscape enhancements; (v) waive the board directed fee for public art; and (vi) award the Design Professional Agreement and authorize Stage I design services.
- The expenditures will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects Legislative appropriations.

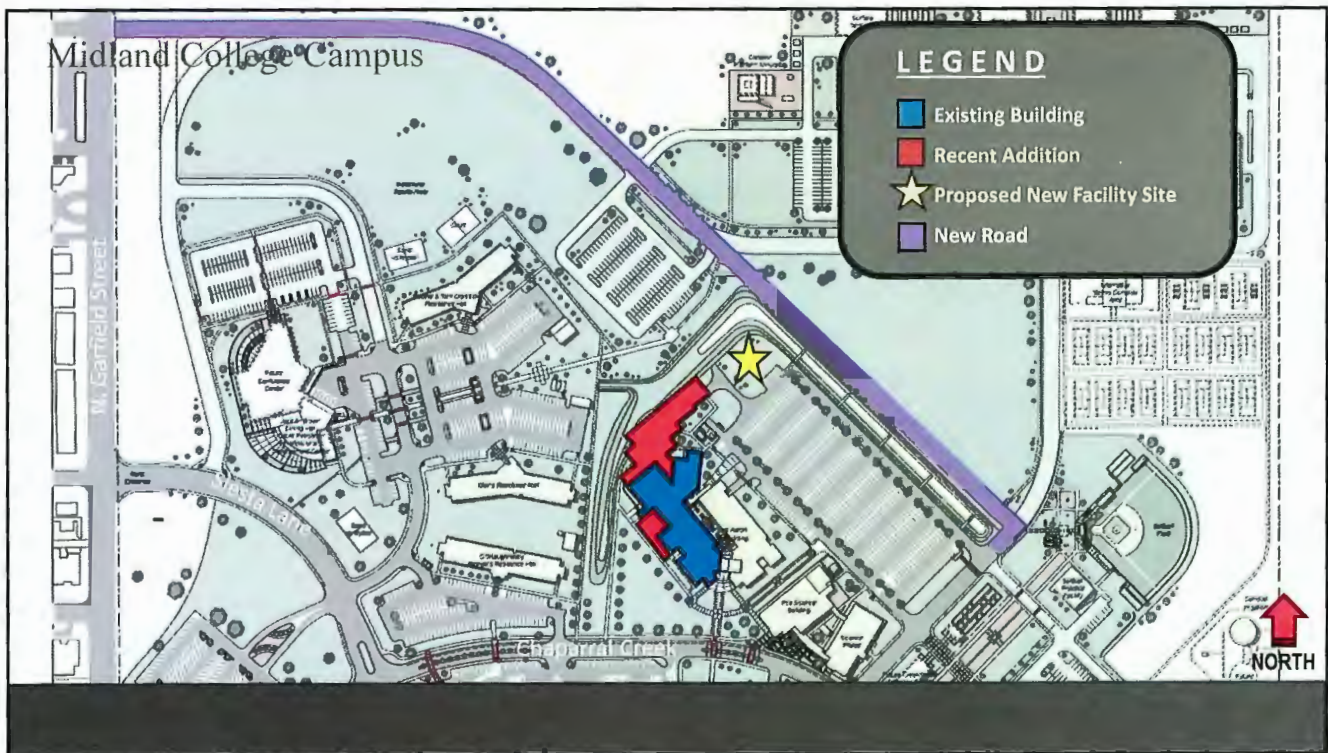


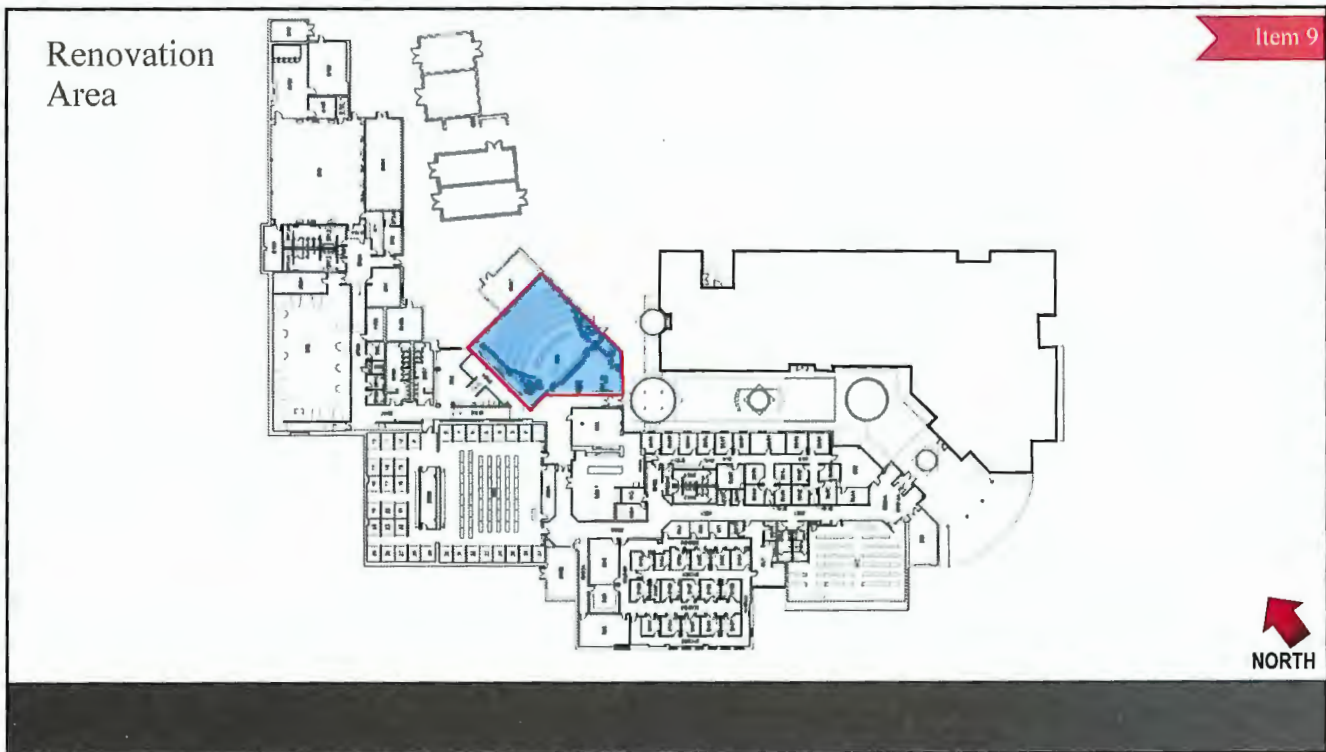
Texas Tech University Health Sciences Center

Item 9

Approve additional project scope, budget increase, and contract amendments for the Dorothy and Todd Aaron Medical Sciences Building Addition and Renovation project on the Midland College campus for the TTUHSC School of Health Professions Physician Assistant program

Billy Breedlove






- Project Overview
- Item 9
- Renovate approximately 4,000 SF within the existing building:
 - Remodel an area within a currently utilized auditorium style classroom to support independent study, ADA testing, and offices, while providing technology to support telehealth education and practicum.
 - Construct new facility:
 - New facility will be built within perimeter of existing TTUHSC land lease.
 - Building GSF to be determined through programming.
 - One large, flexible seating, divisible classroom to accommodate larger gatherings of students.
 - Provide staff and faculty offices, storage, restrooms, and public common spaces.
 - A new roadway will be constructed from N. Garfield Street to the Fox Science Building parking lot and softball field.

Project Budget			Item 9
	Phase I - As Of October 2022	Additional Request	Revised Budget
	\$ 30,000,000	\$ 2,500,000	\$ 32,500,000
Construction	\$ 20,821,729	\$ 2,004,046	\$ 22,825,775
Professional Services	\$ 3,222,212	\$ 393,524	\$ 3,615,736
FF&E	\$ 5,120,988	\$ 0	\$ 5,120,988
Administrative Cost	\$ 129,010	\$ 48,144	\$ 177,154
BOR Directed Fees* (2.4% FP&C)	\$ 703,125	\$ 32,102	\$ 735,227
Contingency	\$ 2,936	\$ 22,184	\$ 25,120

* Fees for 1% Landscape Enhancements and 1% Public Art - Waived

- Recommendation Item 9
- Authorize
 - (i) Initiation of the additional project scope for the Dorothy and Todd Aaron Medical Sciences Building Addition and Renovation project through the Capital Construction Assistance Projects (“CCAP”);
 - (ii) Approve expenditures of \$2,500,000 in order to provide planning and design services for a new building and renovation within the existing building, and construct a new road, with anticipated budget of \$18,700,000 for a total project budget of \$48,700,000;
 - (iii) Waive the board directed fee for landscape enhancements;
 - (iv) Waive the board directed fee for public art;
- 

Recommendation (cont.)

Item 9

- (v) Amend the Design Professional (“DP”) Agreement for Stage I design services associated with the new building construction and existing building renovation scope;
 - (vi) Amend the Construction Manager-Agent (“CMA”) Agreement for additional services associated with the construction of a new road;
 - (vii) Accept the amended Guaranteed Maximum Price (“GMP”) for construction of the new road and pre-construction services for the new building, and renovation within the existing building;
 - (viii) Amend the Construction Manager At Risk (“CMAR”) Agreement.
- The budget increase will be funded through the Revenue Finance System (“RFS”), repaid with Capital Construction Assistance Projects Legislative appropriations.



Texas Tech University System

Item 10

Report on Facilities Planning and Construction projects (project data as of 10/26/2022)

Billy Breedlove



TTUS - Public Art Collection Website

Item 10



TTUS - Public Art Collection Website

Item 10

New TTUS Public Art website launched in April 2022 ttuspublicart.com

- Contains information about all the artworks in the collection on all campuses.
- Contains information about scheduling tours, the app, and providing donations.
- Have had almost 5K unique visitors to the site since launch.
- Users from all over the US and the world have visited the site to learn about our public art.



TTU – Rip Griffin Park Expansion & Renovation

Item 10

Current Budget: \$14,465,342

Gross Square Feet:
10,800 GSF Renovation
14,342 GSF Addition

Team / Status:

- Design Professional:
Populous, Inc. @ 74%
- Construction Manager At Risk (CMAR):
Teinert Construction, Inc. @ 44%
- Construction Manager Agent (CMA):
Waived
- Landscape Enhancement: Waived
- Public Art: Waived

Substantial Completion Date:

Addition – February 2023
Renovation – October 2023

Actual Date – TBD



TTU – Rip Griffin Park Expansion & Renovation

Item 10

Construction Delivery: CMAR

	BOR Appr (Full) 11/2021 14,342 GSF New 10,800 GSF Reno		Previous Budget As Of 08/2022 14,342 GSF New 10,800 GSF Reno		Current Budget As Of 10/26/2022 14,342 GSF New 10,800 GSF Reno		+ / (-) Change D-C	NOTES
	B	C	D	E	F	G		
BUDGET	\$ 14,465,342	\$ 14,465,342	\$ 14,465,342	\$ -	\$ -	\$ -		
CATEGORY								
Construction	\$ 10,645,405	\$ 10,853,612	\$ 11,078,612	\$ 225,000	\$ -	\$ -		Transfer to amend contractor's contract to provide additional owner contingency, to expedite approval for additional TTU Athletics requested scope of work.
Professional Services	\$ 1,262,957	\$ 1,262,957	\$ 1,242,957	\$ (20,000)	\$ -	\$ -		
FF&E	\$ 1,769,040	\$ 1,769,040	\$ 1,664,040	\$ (105,000)	\$ -	\$ -		
Administrative	\$ 37,460	\$ 37,460	\$ 37,460	\$ -	\$ -	\$ -		
Project Contingency	\$ 411,446	\$ 203,239	\$ 103,239	\$ (100,000)	\$ -	\$ -		
Regents' Rules	\$ 339,034	\$ 339,034	\$ 339,034	\$ -	\$ -	\$ -		
TOTAL	\$ 14,465,342	\$ 14,465,342	\$ 14,465,342	\$ -	\$ -	\$ -		

PARTNERS

Construction Manager Teinert Construction, Inc.
 Design Professional Populous, Inc.
 CM Agent Waived
 Tier 2 Auditor Waived

TTU – J.T. & Margaret Talkington College of Visual and Performing Arts Theatre & Dance Complex Phase II

Item 10

Current Budget: \$ 21,075,337

Gross Square Feet: 11,328 GSF New
24,200 GSF Reno

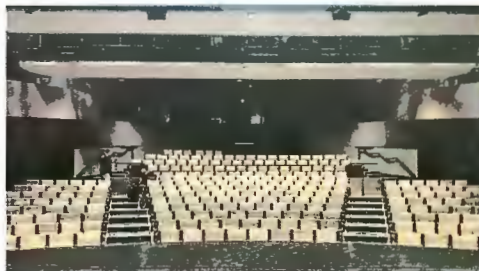
Team / Status:

- Design Professional: Holzman Moss Bottino Architecture, LLP @ 93%
- Construction Manager At Risk (CMAR): Lee Lewis Construction, Inc. @ 82%
- Construction Manager Agent (CMA): N/A
- Landscape Enhancement: Waived
- Public Art: Waived

Substantial Completion Date:

Original Date – October 2022

Actual Date – TBD



Item 10

TTU – J.T. & Margaret Talkington College of Visual and Performing Arts Theatre & Dance Complex Phase II

Construction Delivery: CMAR

	BOR Appr (Full) 10/2020 11,328 GSF New 24,200 GSF Reno B	Previous Budget As Of 08/2022 11,328 GSF New 24,200 GSF Reno C	Current Budget As Of 10/26/2022 11,328 GSF New 24,200 GSF Reno D	+ / (-) Change D-C	NOTES
BUDGET	\$ 20,000,000	\$ 21,075,337	\$ 21,075,337	\$ -	
CATEGORY					
Construction	\$ 15,711,254	\$ 16,443,772	\$ 16,443,772	\$ -	
Professional Services	\$ 2,152,415	\$ 2,095,681	\$ 2,095,681	\$ -	
FF&E	\$ 997,750	\$ 1,419,419	\$ 1,419,419	\$ -	
Administrative	\$ 135,158	\$ 139,963	\$ 139,963	\$ -	
Project Contingency	\$ 521,958	\$ 494,037	\$ 494,037	\$ -	
Regents' Rules	\$ 481,465	\$ 482,465	\$ 482,465	\$ -	
TOTAL	\$ 20,000,000	\$ 21,075,337	\$ 21,075,337	\$ -	

PARTNERS

Construction Manager Lee Lewis Construction, Inc.
 Design Professional Holzman Moss Bottino Architecture, LLP
 CM Agent N/A
 Tier 2 Auditor Townsend

Item 10

TTU – Dr. Robert Neff and Louise Willson Arnold Wing

Current Budget: \$ 12,000,000

Gross Square Feet: 18,700 GSF

Team / Status:

- Design Professional: MWM Architects, Inc. @ 89%
- Construction Manager At Risk (CMAR): Western Builders of Amarillo, Inc. @ 60%
- Construction Manager Agent (CMA): N/A
- Landscape Enhancement: Waived
- Public Art: Waived

Substantial Completion Date:

Original Date – August 2022

Actual Date – TBD



TTU – Dr. Robert Neff and Louise Willson Arnold Wing

Item 10

Construction Delivery: CMAR

BUDGET	BOR Appr (Full)	Previous Budget As Of	Current Budget As Of	+ / (-) Change D-C	NOTES
	05/2021 18,700 GSF B	08/2022 18,700 GSF C	10/26/2022 18,700 GSF D		
	\$ 12,000,000	\$ 12,000,000	\$ 12,000,000	\$ -	
CATEGORY					
Construction	\$ 9,621,500	\$ 9,621,500	\$ 9,621,500	\$ -	
Professional Services	\$ 1,191,120	\$ 1,191,120	\$ 1,191,120	\$ -	
FF&E	\$ 574,240	\$ 754,240	\$ 754,240	\$ -	
Administrative	\$ 60,600	\$ 60,600	\$ 60,600	\$ -	
Project Contingency	\$ 271,290	\$ 91,290	\$ 91,290	\$ -	
Regents' Rules	\$ 281,250	\$ 281,250	\$ 281,250	\$ -	
TOTAL	\$ 12,000,000	\$ 12,000,000	\$ 12,000,000	\$ -	

PARTNERS

Construction Manager: Western Builders of Amarillo, Inc.
 Design Professional: MWM Architects, Inc.
 CM Agent: N/A
 Tier 2 Auditor: Waived

TTU – Academic Sciences Building

Item 10

Current Budget: \$112,500,000

Gross Square Feet: 131,411 GSF

Team / Status:

- Design Professional: Bames Gromatzky Kosarek Architects, Inc. @ 77%
- Construction Manager At Risk (CMAR): Western Builders of Amarillo, Inc. @ 7%
- Construction Manager Agent (CMA): Waived
- Landscape Enhancement: Waived
- Public Art: Waived

Substantial Completion Date:
 Original Date – February 2024

Actual Date – TBD



TTU – Academic Sciences Building

Item 10



TTU – Academic Sciences Building

Item 10

Construction Delivery: CMAR

	BOR Appr (GMP) 4/2022 129,254 GSF	Previous Budget As Of 8/2022 129,650 GSF	Current Budget As Of 10/26/2022 131,411 GSF	+ / (-) Change D-C	NOTES
	B	C	D		
BUDGET	\$ 112,500,000	\$ 112,500,000	\$ 112,500,000	\$ -	
CATEGORY					
Construction	\$ 93,406,886	\$ 93,406,886	\$ 93,406,886	\$ -	
Professional Services	\$ 7,857,451	\$ 7,857,451	\$ 7,857,451	\$ -	
FF&E	\$ 5,035,632	\$ 5,035,632	\$ 5,035,632	\$ -	
Administrative	\$ 375,078	\$ 375,078	\$ 375,078	\$ -	
Project Contingency	\$ 3,188,234	\$ 3,188,234	\$ 3,188,234	\$ -	
Regents' Rules	\$ 2,636,719	\$ 2,636,719	\$ 2,636,719	\$ -	
TOTAL	\$ 112,500,000	\$ 112,500,000	\$ 112,500,000	\$ -	

PARTNERS

Construction Manager Western Builders of Amarillo, Inc.
 Design Professional Barnes Gromatzky Kosarek Architects, Inc.
 CM Agent Waived
 Tier 2 Auditor CBIZ

TTU – NRHC Ranch Life Learning Center

Item 10

Status: Under Construction

Current Budget: \$ 8,200,000

Gross Square Feet: 19,897 GSF Exterior
 3,500 GSF Interior

Team / Status:

- Design Professional:
 Condray Design Group @ 85%
- Construction Manager At Risk (CMAR):
 Teinert Construction, Inc. @ 0%
- Construction Manager Agent (CMA):
 Waived
- Landscape Enhancement: Waived
- Public Art: TBD

Substantial Completion Date:

Original Date – May 2023

Actual Date – TBD



TTU – NRHC Ranch Life Learning Center

Item 10

Construction Delivery: CMAR

	BOR Appr (Full) 08/2022 23,397 GSF B	Previous Budget As Of 08/2022 23,397 GSF C	Current Budget As Of 10/26/2022 23,397 GSF D	+ / (-) Change D-C	NOTES
BUDGET	\$ 8,200,000	\$ 8,200,000	\$ 8,200,000	\$ -	
CATEGORY					
Construction	\$ 6,630,300	\$ 6,630,300	\$ 6,630,300	\$ -	
Professional Services	\$ 897,436	\$ 897,436	\$ 897,436	\$ -	
FF&E	\$ 173,500	\$ 173,500	\$ 173,500	\$ -	
Administrative	\$ 33,725	\$ 33,725	\$ 33,725	\$ -	
Project Contingency	\$ 212,899	\$ 212,899	\$ 212,899	\$ -	
Regents' Rules	\$ 252,140	\$ 252,140	\$ 252,140	\$ -	
TOTAL	\$ 8,200,000	\$ 8,200,000	\$ 8,200,000	\$ -	

PARTNERS

Construction Manager Condray Design Group, Inc.
 Design Professional Teinert Construction
 CM Agent Waived
 Tier 2 Auditor Waived

TTUHSC – Dallas Southwest Professional Building Renovation

Item 10

Current Budget: \$ 22,281,070

Gross Square Feet:

63,000 Building
17,700 Renovation
17,700 Renovation (6th Floor)

Team / Status:

- Design Professional:
Parkhill Smith and Cooper, Inc. @ 96%
Page – Managed by TTUHSC (6th Floor)
- Construction Manager At Risk (CMAR):
Hill & Wilkinson General Contractors
Original @ 77%
6th Floor @ 0%
- Construction Manager Agent (CMA):
Waived
- Landscape Enhancement: Waived
- Public Art: Waived

Substantial Completion Date:

Amended Date – October 2022
7th Floor Renovation – November 30, 2021
Actual Date – October 31, 2022
6th Floor Date – July 2023



TTUHSC – Dallas Southwest Professional Building Renovation (6th Floor)

Item 10



TTUHSC – Dallas Southwest Professional Building Renovation (Original)

Item 10

Construction Delivery: CMAR

BUDGET	BOR Appr (Full)	Previous Budget As Of	Current Budget As Of	+ / (-) Change D-C	NOTES
	10/2020 17,700 GSF B	08/2022 17,700 GSF C	10/26/2022 17,700 GSF D		
	\$ 15,500,000	\$ 15,500,000	\$ 15,500,000	\$ -	
CATEGORY					
Construction	\$ 12,038,500	\$ 12,408,267	\$ 12,408,267	\$ -	
Professional Services	\$ 1,322,000	\$ 1,322,000	\$ 1,322,000	\$ -	
FF&E	\$ 1,361,800	\$ 1,336,800	\$ 1,336,800	\$ -	
Administrative	\$ 59,652	\$ 69,652	\$ 69,652	\$ -	
Project Contingency	\$ 354,767	\$ -	\$ -	\$ -	
Regents' Rules	\$ 363,281	\$ 363,281	\$ 363,281	\$ -	
TOTAL	\$ 15,500,000	\$ 15,500,000	\$ 15,500,000	\$ -	

PARTNERS

Construction Manager Hill & Wilkinson General Contractors
 Design Professional Parkhill Smith and Cooper, Inc.
 CM Agent Waived
 Tier 2 Auditor Townsend

TTUHSC – Dallas Southwest Professional Building Renovation (6th Floor)

Item 10

Construction Delivery: CMAR

BUDGET	BOR Appr (Full)	Previous Budget As Of	Current Budget As Of	+ / (-) Change D-C	NOTES
	8/1/2022 17,700 GSF B	8/1/2022 17,700 GSF C	10/26/2022 17,700 GSF D		
	\$ 6,781,070	\$ 6,781,070	\$ 6,781,070	\$ -	
CATEGORY					
Construction	\$ 4,005,040	\$ 4,005,040	\$ 4,005,040	\$ -	
Professional Services	\$ 74,500	\$ 74,500	\$ 74,500	\$ -	
FF&E	\$ 1,775,000	\$ 1,775,000	\$ 1,775,000	\$ -	
Administrative	\$ 16,000	\$ 16,000	\$ 16,000	\$ -	
Project Contingency	\$ 751,599	\$ 751,599	\$ 751,599	\$ -	
Regents' Rules	\$ 158,931	\$ 158,931	\$ 158,931	\$ -	
TOTAL	\$ 6,781,070	\$ 6,781,070	\$ 6,781,070	\$ -	

PARTNERS

Construction Manager Hill & Wilkinson General Contractors
 Design Professional Page
 CM Agent Waived
 Tier 2 Auditor Townsend

Texas Tech University System

Item 10

Projects – In Design

TTU – Biology Building Renovation

Item 10

Current Budget: \$ 8,399,000

Gross Square Feet: 144,940 GSF

Team / Status:

- Design Professional:
Huckabee
- Construction Manager At Risk (CMAR):
TBD
- Construction Manager Agent (CMA):
Waived
- Landscape Enhancement: Waived
- Public Art: Waived

Substantial Completion Date:

Original Date – TBD

Actual Date – TBD



ASU – Carr Hall Renovation

Item 10

Status: Stage I Design / Pre-con

Current Budget: \$ 167,194

Projected Budget: \$ 6,800,000

Gross Square Feet: 20,960 GSF

Team / Status:

- Design Professional:
O'Connell Robertson
- Construction Manager At Risk (CMAR):
Hoar Construction
- Construction Manager Agent (CMA):
Waived
- Landscape Enhancement: Waived
- Public Art: Waived

Substantial Completion Date:

Original Date – TBD

Actual Date – TBD



TTU – NRHC Master Plan

Item 10

Status: Stage II Design

Current Budget: \$ 50,000

Team / Status:

- NRHC & FP&C



Texas Tech University System

Item 10

Status of Public Art

TTU – Raider Red

Item 10

Funds donated by: Texas Tech Federal Credit Union

Artist: Garland Weeks

Status: October 22, 2022 Dedication



Angelo State University
Campus Condition Report - FY2022
 October 26, 2021

Summary by Period and Category						
Period	Critical	Deferred	Planned	Adaption	Total	
Budgeted - Current Year	-	425,000	3,319,590	4,227,655	7,972,245	
Expenditures - Previous Year	-	85,116	5,987,829	2,036,458	8,109,403	
Projected - Years 2 through 5	-	150,000	6,394,002	9,274,886	15,818,888	
Unbudgeted - Current Year	-	250,000	250,000	400,000	900,000	
Total	-	910,116	15,951,421	15,938,999	32,800,536	
Summary by Type and Category						
Maintenance Type	Critical	Deferred	Planned	Adaption	Total	
Architectural	-	190,000	6,188,978	9,816,682	16,195,660	
HVAC	-	126,816	1,004,954	-	1,131,770	
Plumbing and Electrical	-	325,000	4,216,772	247,886	4,789,658	
Safety	-	268,300	860,000	520,000	1,648,300	
Legal and Mandatory	-	-	70,000	-	70,000	
Other	-	-	3,610,717	5,354,431	8,965,148	
Total	-	910,116	15,951,421	15,938,999	32,800,536	
Top Five Priority Projects						
Priority	Name	Period	Category	Type	Amount	
1	PORTER HENDERSON LIBRARY - 1st Floor Learning Commons	Budgeted - Current Year	Facility Adaption	Architectural	\$	1,323,747
2	RASSMAN BUILDING - Data Center Fire and Life Safety Upgrades	Budgeted - Current Year	Facility Adaption	Safety	\$	200,000
3	TEXAN HALL - HVAC and Plumbing Refresh (Tub Replacements)	Budgeted - Current Year	Preventive Maintenance	HVAC	\$	477,954
4	TEXAN HALL - Stairwell Replacement	Unbudgeted - Current Year	Deferred Maintenance	Safety	\$	250,000
5	MIR CENTER - Boiler Replacement	Budgeted - Current Year	Preventive Maintenance	Plumbing and Electrical	\$	150,000

E&G Deferred Maintenance	\$ 126,816
Non-E&G Deferred Maintenance	\$ 783,300
Total Deferred Maintenance	\$ 910,116

	THECB - Fall 2021 Building Replacement Estimate Report	DM Index Value
Educational and General Campus Condition Index Value (EGCCIV)	\$ 407,300,864	0.0311%
Institution-Wide Campus Condition Index Value (IWCCIV)	\$ 1,252,670,267	0.0727%

Midwestern State University
Campus Condition Report - FY2022
October 6, 2022

Summary by Period and Category						
Period	Critical	Deferred	Planned	Adaptation	Total	
Budgeted - Current Year	\$ 50,000	\$ 266,000	\$ 1,496,594	\$ 5,000	\$ 1,817,594	
Expenditures - Previous Year	\$ 120,591	\$ 342,160	\$ 1,156,264	\$ 182,411	\$ 1,801,426	
Projected - Years 2 through 5	\$ -	\$ 1,160,700	\$ 18,066,500	\$ 1,974,500	\$ 21,201,700	
Unbudgeted - Current Year	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 170,591	\$ 1,768,860	\$ 20,719,358	\$ 2,161,911	\$ 24,820,720	
Summary by Type and Category						
Maintenance Type	Critical	Deferred	Planned	Adaptation	Total	
Architectural	\$ -	\$ 1,107,654	\$ 7,185,451	\$ 1,231,132	\$ 9,524,237	
HVAC	\$ 71,590	\$ 379,464	\$ 3,805,599	\$ -	\$ 4,256,653	
Plumbing and Electrical	\$ 79,001	\$ 170,000	\$ 3,380,359	\$ 30,000	\$ 3,659,360	
Safety	\$ 20,000	\$ 80,742	\$ 1,778,575	\$ 708,279	\$ 2,587,596	
Legal and Mandatory	\$ -	\$ -	\$ 825,000	\$ 80,000	\$ 905,000	
Other	\$ -	\$ 31,000	\$ 3,744,374	\$ 112,500	\$ 3,887,874	
Total	\$ 170,591	\$ 1,768,860	\$ 20,719,358	\$ 2,161,911	\$ 24,820,720	
Top Five Priority Projects						
Priority	Name	Period	Category	Type	Amount	
1	Replace interior walkways in cooling towers 4, 5	Budgeted - Current Year	Critical Deferred Maint	HVAC	\$ 15,000	
2	Replace purge unit on chiller that failed	Budgeted - Current Year	Deferred Maintenance	HVAC	\$ 26,000	
3	Add inverter for emergency lighting	Budgeted - Current Year	Planned Maintenance	Plumbing and Electrical	\$ 45,000	
4	Heating system failed; demo/abate/replace	Budgeted - Current Year	Deferred Maintenance	HVAC	\$ 40,000	
5	Replace felt under roofing tile	Budgeted - Current Year	Planned Maintenance	Architectural	\$ 140,000	

E&G	\$ 824,114
Non-E&G Deferred Maintenance	\$ 716,746
Total	\$ 1,540,860

	THECB - Fall 2021 Building Replacement Estimate Report	DM Index Value
Educational and General Campus Condition Index Value (EGCCIV)	\$ 336,411,358	0.2450%
Institution-Wide Campus Condition Index Value (IWCCIV)	\$ 1,009,973,584	0.1526%

Texas Tech University
Campus Condition Report - FY2022

Friday, October 14, 2022

Summary by Period and Category							
Period	Critical	Deferred	Planned	Adaptation	Total		
Previous Expenditures	\$ -	\$ 589,507	\$ 2,501,275	\$ 12,023,467	\$ 15,114,249		
Budgeted - Current Year	\$ -	\$ 18,313,560	\$ 42,033,957	\$ 115,653,577	\$ 176,001,094		
Projected - Years 2 Through 5	\$ -	\$ 2,915,000	\$ 17,159,000	\$ -	\$ 20,074,000		
Unbudgeted - Current Year	\$ -	\$ -	\$ -	\$ -	\$ -		
Total	\$ -	\$ 21,818,067	\$ 61,694,232	\$ 127,677,044	\$ 211,189,343		
Summary by Type and Category							
Maintenance Type	Critical	Deferred	Planned	Adaptation	Total		
Architectural	\$ -	\$ 8,135,700	\$ 12,639,444	\$ 108,687,307	\$ 129,462,451		
HVAC	\$ -	\$ 9,763,100	\$ 28,084,070	\$ 7,651,380	\$ 45,498,550		
Plumbing and Electrical	\$ -	\$ 3,510,362	\$ 7,615,313	\$ 2,269,043	\$ 13,394,718		
Safety	\$ -	\$ 58,905	\$ 8,019,948	\$ 4,650,002	\$ 12,728,855		
Legal and Mandatory	\$ -	\$ 350,000	\$ 2,190,457	\$ 3,544,627	\$ 6,085,084		
Other	\$ -	\$ -	\$ 3,145,000	\$ 1,224,685	\$ 4,369,685		
Total	\$ -	\$ 21,818,067	\$ 61,694,232	\$ 128,027,044	\$ 211,539,343		
Top Five Priority Projects							
Priority	Project Name	Period	Category	Type	Amount		
1	Replace Domestic Water Line from Holden to University Ave. Ph2	Budgeted - Current Year	Deferred Maintenance	Plumbing and Electrical	\$ 550,000		
2	Replace Emergency Power for Emergency Ops Center	Budgeted - Current Year	Planned Maintenance	Plumbing and Electrical	\$ 250,000		
3	Replace Cracked Exterior Stairs (Safety Issue)	Budgeted - Current Year	Planned Maintenance	Architectural	\$ 150,000		
4	Campus Water Pressure Monitoring	Budgeted - Current Year	Planned Maintenance	Plumbing and Electrical	\$ 175,000		
5	2014 Audit: 1132 Replace Roof	Projected - Years 2 Through 5	Deferred Maintenance	Architectural	\$ 350,000		

E&G Deferred Maintenance	\$ 14,101,032
Non-E&G Deferred Maintenance	\$ 5,627,528
Total Deferred Maintenance	\$ 19,728,560

	THECB - Fall 2021 Building Replacement Estimate Report	DM Index Value
Educational and General Campus Condition Index Value (EGCCIV)	\$ 2,234,107,360	0.6312%
Institution-Wide Campus Condition Index Value (IWCCIV)	\$ 5,835,635,246	0.3381%

Texas Tech University Health Sciences Center
Campus Condition Report - FY2022
September 23, 2022

Summary by Period and Category						
Period	Critical	Deferred	Planned	Adaptation	Total	
Budgeted - Current Year	\$ -	\$ 1,589,200	\$ 5,864,900	\$ 5,329,854	\$ 12,783,954	
Expenditures - Previous Year	\$ -	\$ 1,712,713	\$ 5,785,694	\$ 2,225,473	\$ 9,723,880	
Projected - Years 2 through 5	\$ -	\$ -	\$ 25,458,950	\$ 19,332,000	\$ 44,790,950	
Unbudgeted - Current Year	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ -	\$ 3,301,913	\$ 37,109,544	\$ 26,887,327	\$ 67,298,784	
Summary by Type and Category						
Maintenance Type	Critical	Deferred	Planned	Adaptation	Total	
Architectural	\$ -	\$ -	\$ 9,225,793	\$ 6,656,363	\$ 15,882,156	
HVAC	\$ -	\$ 2,871,583	\$ 15,284,502	\$ 12,443,406	\$ 30,599,491	
Plumbing and Electrical	\$ -	\$ 329,802	\$ 5,401,075	\$ 3,916,103	\$ 9,646,981	
Safety	\$ -	\$ 100,528	\$ 4,326,454	\$ 1,514,391	\$ 5,941,373	
Legal and Mandatory	\$ -	\$ -	\$ 596,253	\$ 244,066	\$ 840,319	
Other	\$ -	\$ -	\$ 2,275,466	\$ 2,112,998	\$ 4,388,464	
Total	\$ -	\$ 3,301,913	\$ 37,109,544	\$ 26,887,327	\$ 67,298,784	
Top Five Priority Projects						
Priority	Project Name	Period	Category	Type	Amount	
1	Odessa RAHC Roof	Budgeted - Current Year	Planned Maintenance	App - Approximated	\$ 700,000.00	
2	Abilene School of Nursing - Chiller	Budgeted - Current Year	Facility Adaptation	App - Approximated	\$ 550,000.00	
3	LBB - Pod A West Re-Line Sewer	Budgeted - Current Year	Planned Maintenance	App - Approximated	\$ 500,000.00	
4	LBB - Pod A VAV's	Budgeted - Current Year	Planned Maintenance	App - Approximated	\$ 300,000.00	
5	Amarillo School of Pharmacy - Elevators upgrade	Budgeted - Current Year	Planned Maintenance	App - Approximated	\$ 300,000.00	

E&G Deferred Maintenance	\$ 858,168
Non-E&G Deferred Maintenance	\$ 731,032
Total Deferred Maintenance	\$ 1,589,200

	THECB - Fall 2021 Building Replacement Estimate Report	DM Index Value
Educational and General Campus Condition Index Value (EGCCIV)	\$ 1,141,123,581	0.0752%
Institution-Wide Campus Condition Index Value (IWCCIV)	\$ 1,631,961,665	0.0974%

Texas Tech University Health Sciences Center - El Paso
Campus Condition Report - FY2022
 November 2, 2022

Summary by Period and Category						
	Critical	Deferred	Planned	Adaptation	Total	
Budgeted - Current Year	\$ -	\$ 1,504,085	\$ 473,069	\$ 2,432,282	\$	4,359,435
Expenditures - Previous Year	\$ -	\$ 620,416	\$ 984,564	\$ 4,564,084	\$	6,169,064
Projected - Years 2 through 5	\$ -	\$ 2,357,000	\$ 13,183,000	\$ 22,325,205	\$	37,865,205
Unbudgeted - Current Year	\$ -	\$ 3,009,900	\$ 1,922,000	\$ 2,175,000	\$	7,106,900
Total	\$ -	\$ 7,491,401	\$ 16,512,633	\$ 31,496,571	\$	55,500,604

Summary by Type and Category						
	Critical	Deferred	Planned	Adaptation	Total	
Architectural	\$ -	\$ 1,429,855	\$ 4,973,165	\$ 16,953,325	\$	23,356,344
HVAC	\$ -	\$ 3,882,428	\$ 1,600,458	\$ 900,000	\$	6,382,886
Plumbing and Electrical	\$ -	\$ 850,778	\$ 2,092,193	\$ 156,821	\$	3,099,792
Safety	\$ -	\$ 434,861	\$ 542,546	\$ 358,285	\$	1,335,692
Legal and Mandatory	\$ -	\$ 226,000	\$ 559,000	\$ 10,831,205	\$	11,616,205
Other	\$ -	\$ 667,478	\$ 6,745,272	\$ 2,296,935	\$	9,709,685
Total	\$ -	\$ 7,491,401	\$ 16,512,633	\$ 31,496,571	\$	55,500,604

Top Five Priority Projects					
Priority	Name	Period	Category	Type	Amount
1	MSBII Faculty Ring Buildout	Budgeted - Current Year	Planned Maintenance	Architectural	\$ 1,700,000
2	MSBI HVAC System Refurbishments	Budgeted - Current Year	Planned Maintenance	HVAC	\$ 1,300,000
3	TT Medical Center Faculty Neighborhood Phase 2	Budgeted - Current Year	Planned Maintenance	Architectural	\$ 800,000
4	MEB Controls Upgrades	Budgeted - Current Year	Planned Maintenance	HVAC	\$ 150,000
5	Campus Re-keying Project	Budgeted - Current Year	Planned Maintenance	Safety	\$ 100,000

E&G Deferred Maintenance	\$ 1,542,366
Non-E&G Deferred Maintenance	\$ 2,318,718
Total Deferred Maintenance	\$ 3,861,085

	THECB - Fall 2021 Building Replacement Estimate Report	DM Index Value
Educational and General Campus Condition Index Value (EGCCIV)	\$ 377,491,978	0.4086%
Institution-Wide Campus Condition Index Value (IWCCIV)	\$ 605,899,447	0.6372%

EXHIBIT A
ONCOR ELECTRIC DELIVERY COMPANY EASEMENT
LEGAL DESCRIPTION

BEING out of a tract of land conveyed to Texas Tech University Health Sciences Center as recorded in Instrument Number 201900263531, Deed Records of Dallas County, Texas, said land situated in the Miles Bennett Survey, Abstract No. 52, Dallas County, Texas, said tract being a portion of Lot 10-A, Block D/2370 or Replat Southwest Professional Building Addition, an addition to the City of Dallas, Dallas County, Texas according to the plat recorded in Volume 88051, Page 1743, Plat Records of Dallas County, Texas (PRDCT), and being more particularly described as follows:

COMMENCING at a 5/8 inch iron rod found with a plastic cap stamped "5199", said iron rod at the southwest corner of said Lot 10-A, also being in the north right of way line of Forest Park Road (a called 70 foot right of way);

THENCE South 45°57'52" East, with the north right of way line of Forest Park Road and the south line of said Lot 10-A, a distance of 12.79 feet to the POINT OF BEGINNING;

THENCE South 45°57'52" East, continuing with the north right of way line of Forest Park Road and the south line of said Lot 10-A, a distance of 12.33 feet, to a point, for corner;

THENCE North 08°14'02" East, departing the north right of way line of Forest Park Road and the south line of said Lot 10-A, a distance of 11.30 feet to a point, for corner;

THENCE North 43°56'33" East, a distance of 15.01 feet to a point, for corner;

THENCE North 45°57'52" West, a distance of 13.52 feet to a point, said point being in the east line of a 5-foot Utility Easement, as recorded in Volume 3, Page 154, Deed Records of Dallas County, Texas, for corner;

THENCE South 43°56'33" West, with the aforementioned 5-foot Utility Easement, a distance of 13.35 feet to a point, for corner;

THENCE South 08°14'02" West, departing the aforementioned 5-foot Utility Easement, a distance of 13.34 feet to the Point of Beginning containing 0.007 acres (315 square feet) of land.



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11/17/2022





Office of Research Commercialization

Annual Report

Fiscal Year 2022

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Research Commercialization

Executive Summary

In Fiscal Year 2022, the ORC achieved historic metrics and activity as a result of the vibrant and expanding commercialization efforts across the Texas Tech University System. Integral to this success has been a change in the culture of research across TTUS, with expanding opportunities and focus by funding agencies on translational research. The Innovation Ecosystem continues to rapidly expand with intellectual property and commercialization efforts serving as a central component.

With the successful addition of office bandwidth, the ORC was able to implement expanded technology marketing efforts and dedicate more time to deal management, directly leading to an 80% increase in new license agreements executed, a high in the history of TTUS. In addition, an in-depth agreement audit was performed, uncovering outstanding revenue from older agreements. These efforts, along with an increase in the strength of new agreements executed and two licensee exits, led to the highest annual licensing revenue generated at TTUS.

Stakeholder engagement continued to grow through FY22. Specifically, relationships were fostered with research development teams to engage the ORC in grant writing efforts, leading to an awarded [\\$26 NSF Engineering Research Center](#). ORC staff will lead the IP Oversight Board for the center, engaging our industry members and our colleagues at MIT, CWRU, FAMU, and Georgia Tech to protect and globally commercialize technologies developed within the center to facilitate a nitrogen circular economy. Other stakeholders added this year include faculty at the new [Dental School](#) in El Paso, the new [School of Veterinary Medicine](#) in Amarillo, and the addition of Midwestern State University to the TTUS.

As the ORC continues its trajectory, it will be important to continue relevant reporting to stakeholders. In particular and as summarized below, the patent portfolio has grown to the point where we will now report US issued patents and better quantify marketing efforts. Diversity, equity, and inclusion metrics will also be tracked starting in FY23 to ensure we continue to foster an inclusive community within the innovation ecosystem.

Metrics will likely plateau in the next year, but with the general trend upwards and the increase in deal flow, the ORC is expected to have another banner year in the next three years. Invention Disclosures, Provisional Patent Applications Filed, and US Issued Patents are included in Appendices A, B, and C. Total yearly metrics across the Texas Tech University System are below.

TTUS Yearly Metrics	FY20	FY21	FY22
Invention Disclosures		112	103
Provisional Patent Applications		39	34
Non-Provisional Applications		86	100
US Issued Patents		24	19
Licenses Signed		20	20
License Revenue	\$ 910,984.00	\$ 564,450.00	\$ 1,198,875.00

Research Commercialization

Office Efforts

Texas Tech University System technology transfer metrics are at a historically high level. Revenue received was just shy of \$1.2 million, a 112% increase from FY21 and a record over FY19's previous historic high. New license agreements executed hit 36 this year, an 80% increase over FY21 and a 44% increase over FY19's previous historic high. While the pandemic environment slowed tech transfer growth across all Universities, it is clear the ORC has rebounded, stronger than ever.

A focus of the ORC in FY22 was championing the lifeblood of commercialization – our inventors. With in-person meetings resuming, the ORC was able to host an [Inventor Celebration Reception](#) in partnership with the Lubbock Chapter of the National Academy of Inventors, managed by the ORC. This was the first celebration event the ORC had hosted in three years and had record attendance by faculty, staff, and administrators. Awards were given to faculty who had received issued US patents in FY19, FY20, and FY21. In addition, the inaugural inventor celebration event was held at the El Paso campus in partnership with their annual research symposium, with an El Paso Chapter of NAI in the works over the coming year. The ORC is already planning the next celebration events, with additional planned awards and inventor engagement. The ORC also continued its involvement in the National Academy of Inventors, hosting an innovation panel at the national meeting and inducting one new HSC/TTU faculty member as a [fellow](#).

The ORC worked significantly to increase exposure of inventions and inventors across TTUS. In March of 2022, the ORC established a [Research Commercialization at Texas Tech](#) LinkedIn page to highlight and champion inventors across the System. In just six months, traction gained was astounding. There were 81 features, including: 18 inventor/researcher spotlights, 16 technology promotional pieces, 16 campus outreach/event posts, 11 celebratory/general posts, 10 patent issue promotional posts, 8 “get to know us” posts, and 2 institute/center spotlights. In its first six months, there were almost 120k total views with 65k of those just from inventor spotlights. In addition, the ORC re-engaged in-person marketing efforts with two TechConnect World Innovation Summits attended. The ORC managed booths at both events and took over a dozen faculty innovators to participate. Finally, the ORC successfully onboarded [In-Part](#) to actively market technologies and facilitate industry partnerships to supplement the other more passive marketing platforms the ORC uses.

Stakeholder engagement was continued, with the establishment of the TTU faculty IP committee and the TTU Health Sciences Center faculty IP committee. Four meetings were held this year, and the committee was engaged to provide input to the ORC on patent filing decisions. In addition, ORC staff began better-communicating and celebrating patent issuances. Emails are now circulated to the chair, dean, VPR, and President when a faculty member receives an issued patent from the USPTO.

FY22 saw the award of one of the largest grants to TTU with the establishment of the [CASFER Engineering Research Center](#) by the NSF. ORC staff were a co-PI on the award and will work closely with the center to set up and manage the IP Oversight Board and serve as the IP Director. With up to \$50 million infused into research to develop a nitrogen circular economy, the ORC looks forward to managing and commercializing the necessary IP developed.

An integral component to the success of the ORC this year was the addition of office bandwidth. In January, Hutton Jones was promoted to Sr. Licensing Associate, and [Jennifer Souter](#) was hired on as a Licensing Associate. Jennifer brings 15+ years of experience across three different university technology transfer offices, and the ORC is fortunate to have her on the team. With the addition of bandwidth, licensing staff were better-able to divide up efforts across TTUS to better serve researchers. FY22 saw



personnel turnover within the overall Innovation Ecosystem, however, the ORC still maintained their momentum through it and would like to thank [Kay Tindle](#) for her leadership and championing to strengthen a cohesive ecosystem in the interim.

ORC staff continues to be involved and lead in the tech transfer space amongst their peer institutions. In leadup to the signing of the CHIPS Act, staff participated in multiple round table discussions with tech transfer leadership and the National Science Foundation, ultimately leading to (among many other things) the passage of the first legislation including [direct funding support for tech transfer offices](#). In addition, ORC staff continues to serve on the planning committee for the annual AUTM Central Region Meeting, organizing and hosting panels for the AUTM community. For the first time in three years, the [AUTM Central](#) meeting was held in-person, and ORC staff will continue efforts to maintain a successful regular meeting.

Intellectual Property Portfolio

FY22 was the first year in recent history where the ORC had a secured intellectual property budget, the product of CFO and stakeholder buy-in in FY21. The office stayed well under budget as a result of both streamlined portfolio management practices as well as the landslide of new license agreements executed that recouped and offloaded many of the IP legal expenses to our industry partners. The ORC grew the number of new provisional patent applications to 40, many of which were presented to the faculty IP committees, indicating an increase in quality of invention disclosures received. From FY21, the ORC maintained its ~60% provisional application conversion rate to non-provisional filings after 12 months. Overall non-provisional patent filings shrank to 68 System-wide, though the number of US non-provisional filings remains consistent. International non-provisional filings are warranted when an industry partner or potential industry partner has a broad international footprint, and we simply did not have as many licensees and industry partners wanting broad international protection in FY22.

Below are detailed breakouts of the patent filings.

		FY18	FY19	FY20	FY21	FY22
Provisionals Filed	In-House		8	7	11	8
	External Counsel		46	34	28	26
	Total		54	41	39	34
Non-Provisionals Filed	PCT		17	32	20	24
	US Utility		5	19	7	4
	US National Stage		10	13	24	22
	International National Stage		28	43	28	36
	Continuation/ Divisional		3	1	7	14
	Design Patent		1	0	0	0
	Copyright (n/c)		2	0	0	0
	Total		66	108	86	100



	FY18	FY19	FY20	FY21	FY22
Provisionals Converted (from previous FY)	27 (64%)	44 (81%)	25(61%)	24 (61%)	20 (59%)
Provisionals Refiled (from previous FY)	1 (2%)	5 (9%)	2(5%)	7 (18%)	5 (15%)
Provisionals Abandoned (from previous FY)	14 (34%)	6 (10%)	14 (34%)	8 (21%)	9 (26%)

Institutional Engagement and Metrics

Below are additional yearly metrics broken out by TTUS institution.

FY22

	Invention Disclosures	Percent Disclosures	Provisional Patent Applications	Non-Provisional Applications	Issued US Patents	Licenses Signed	License Revenue	Percent Revenue
TTU	58	53%	27	54	15	27	\$ 1,029,350.00	86%
TTU HSC	27	25%	6	11	7	6	\$ 121,125.00	10%
TTU HSC El Paso	6	5%	3	5	3	0	\$ 48,400.00	4%
Joint TTU/HSC	7	6%	4	2		3		
Angelo State	1	1%	0	0	0	0	\$ -	0%
External/Student	11	10%						

FY21

	Invention Disclosures	Percent Disclosures	Provisional Patent Applications	Non-Provisional Applications	Issued US Patents	Licenses Signed	License Revenue	Percent Revenue
TTU	56	54%	24	46	14	10	\$ 390,616.00	69%
TTU HSC	24	23%	8	31	3	8	\$ 107,790.00	19%
TTU HSC El Paso	11	11%	2	21	2	2	\$ 66,044.00	12%
Joint TTU/HSC	4	4%	0	2				
External/Student	8	8%						

FY20

	Invention Disclosures	Percent Disclosures	Provisional Patent Applications	Non-Provisional Applications	Issued US Patents	Licenses Signed	License Revenue	Percent Revenue
TTU	59	53%	23	56	16	12	\$ 798,429.00	88%
TTU HSC	31	28%	11	19	3	6	\$ 112,556.00	12%
TTU HSC El Paso	6	5%	1	9	5	0	\$ -	0%
Joint TTU/HSC	3	3%	4	2		2		
External/Student	13	12%						

Research Commercialization

Texas Tech University

Texas Tech University metrics included 58 disclosures, 27 provisional patent applications filed, 54 non-provisional patent applications filed, 27 license agreements, and \$1,029,350 received in licensing revenue, accounting for half of new inventions disclosed and 86% of revenue received. With the opening of the School of Veterinary Medicine, ORC staff increased the frequency of their campus visits to Amarillo. The ORC has already received invention disclosures from the SVM, filed for patent protection, and are even in licensing discussions to commercialize SVM technologies with industry partners. With the receipt of the Engineering Research Center award, additional ORC bandwidth will be utilized to structure and manage the IP and IP Oversight Board for the Center. In addition, Texas Tech University had two licensee exits this year, both for significant sums and both to large industry partners who plan to accelerate the technologies to market.

Regular dean reporting to TTU colleges has continued. In partnership with the Office of Research Development and Communications, the ORC has launched a campaign to present to every TTU department during their regular faculty meetings. The campaign is ongoing and is planned to eventually repeat to continue engaging faculty in the commercialization process. In addition, ORC staff worked closely with the Innovation Hub and the Small Business Development Center to memorialize synergy documents as well as a strategic plan, and the cohesiveness of the ecosystem has never been stronger. Finally, ORC staff continues to work closely with Office of Research Services staff to develop regular reports of faculty funding awards, faculty proposals containing IP, and departing faculty reports, all of which the ORC heavily utilizes in managing the IP portfolio and maintaining engagement with inventors.

TTU Health Sciences Center

Texas Tech University Health Sciences Center metrics included 27 disclosures, 6 provisional patent applications filed, 11 non-provisional patent applications filed, 6 license agreements, and \$121,125 in licensing revenue, accounting for one-fourth of new inventions disclosed and 10% of revenue. With the hiring of [Lance McMahon](#) to the VPR role this year, commercialization and innovation across the HSC has been a focus. With a historic number of patents issued to HSC faculty (more than double recent years), Dr. McMahon has made it a priority to communicate and promote these achievements of HSC faculty in partnership with the ORC. In addition, the HSC Research, Innovation, Collaboration, and Entrepreneurship (RICE) initiative was rolled out this year, with RICE staff regularly aiding ORC staff to engage HSC faculty in the commercialization process.

The ORC continues to regularly visit the HSC satellite campuses with members from other campuses even participating in the HSC faculty IP committee to aide the ORC in patent filing decisions. Staff continued their partnership with the Graduate School of Biomedical Sciences, graduating one HSC intern and on-boarding another in FY22.

TTU HSC El Paso

Texas Tech University Health Sciences Center at El Paso and the Paul L. Foster School of Medicine metrics included 6 disclosures, 3 provisional patent applications filed, 5 non-provisional patent applications filed, 0 license agreements, and \$48,400 in licensing revenue. Metrics dipped in FY22 after a record year in FY21. With the opening of the dental school and the inaugural class beginning this past year, the El Paso institution is poised for significant growth in commercialization. The ORC is already engaging with new dental school faculty who are actively developing intellectual property. ORC staff participated in the annual Research Symposium last April, hosting the inaugural Inventor Celebration Reception recognizing El Paso faculty.



Angelo State University

Engagement with ASU was continued, with one invention disclosure received from the college of engineering. ORC staff continues to host workshops with the ASU Small Business Development Center and regularly work with teams participating in local programs.

Midwestern State University

With the joining of Midwestern State University to the TTU System, the ORC will launch engagement with MSU faculty over the coming year.

FY23 Planning and Projections

The ORC continues to meet goals and grow the overall commercialization activity across the TTUS. Going forward, the ORC will make efforts to recognize and champion diversity, equity, and inclusion in the commercialization process. Reporting changes have been implemented to ensure the ORC is actively tracking these efforts. While the ORC was able to increase bandwidth with the hiring of a licensing associate this past year, to maintain its growth and engagement, the ORC plans to soon post a junior licensing associate position to be hired by Q3. Campus outreach is at an all time high, and the ORC plans to launch a departmental meeting campaign at the HSC over the coming months after the success of similar efforts across TTU.

In a review of technology transfer best practices, a missing component is a proof-of-concept fund to increase value of TTUS IP. While there are avenues for receiving company prototype funding and company acceleration assistance, there is currently no fund available for researchers to move their research forward to a point critical to strengthening their IP and often the TTUS patent's marketability. Over the coming year, the ORC plans to work with the campus VPRs to establish a fund to fill this gap.

It was a banner year for the ORC and TTUS inventors. Commercialization activity has never been higher, and the ORC looks forward to continued years of success and active engagement with faculty and other TTUS stakeholders.

A handwritten signature in blue ink, appearing to read 'C. Smith', with a long horizontal flourish extending to the right.

Cameron P. Smith
Commercialization Director, TTU System



Appendices

Appendix A

FY22 Invention Disclosures

Invention Number	Invention Title	Inventors	Institution	Disclosure Date	Disclosure Status
2022-001	Purr Blanket	Ericka Hendrix ★	HSC	Sep 3, 2021	Archived
2022-002	Engineered Abiotic Stress-tolerant Crops with Enhanced Photosynthesis	Hong Zhang ★	TTU	Sep 7, 2021	Active
2022-003	Inductively Coupled Wireless Power Transfer with Extended Range Capabilities	Bashir Iqbal Morshed ★ Mahfuzur Rahman	TTU	Sep 20, 2021	Active
2022-004	SmartMate IV	John Harry Debajyoti Pati ★ James Yang	TTU	Sep 23, 2021	Under Option
2022-005	Interfacial wave spectroscopy to characterize opaque interior of complex multiphase domain	Sukalyan Bhattacharya ★	TTU	Sep 27, 2021	Active
2022-006	P-car-ked	Ruth Ogu ★	External	Sep 30, 2021	Archived
2022-007	Myheart & Me (Mh&M)	Foster Ogu ★	External	Sep 30, 2021	Archived
2022-008	Selenium containing antimicrobial compounds for applications on cotton as a reactive dye or finishing product	Noureddine Abidi Nick B. Bergfeld Ted W. Reid ★ Phat L. Tran	Joint	Sep 30, 2021	Related to
2022-009	Use of MelB for the purification of Li(+) from Na(+) contamination	Lan Guan ★	HSC	Oct 8, 2021	Archived
2022-010	Stop the Bleed(R) BioFeedback Modeling	Brittany Bankhead-Kendall ★ Julie Chugh	HSC	Oct 11, 2021	Under Option
2022-011	Helmet impact visual indicator	Marilyn Mathew ★	External	Oct 11, 2021	Archived
2022-012	Heat Flux Measurement System	Moses Trevor Dardik ★	External	Oct 7, 2021	Archived
2022-013	Efficient Evaluation of Exponential and Gaussian Functions on a Quantum Computer	Lionel William "Bill" Poirier ★	TTU	Oct 14, 2021	Active
2022-014	Utilization of Microwave Architecture for Passive Indoor Sensing Applications	Changzhi Li ★ Davi Rodrigues Dongyang Tang	TTU	Oct 14, 2021	Active
2022-015	Silencer switch for yankauer suction device	John Ciubuc Muhammad H. Nazim Jasmin Rahesh ★	HSC	Oct 22, 2021	Archived
2022-016	Synaptosome microRNAs regulate synapse function in Alzheimer's disease	Subodh Kumar ★ P. Hemachandra Reddy	HSC-EP	Oct 27, 2021	Active
2022-017	Protective effects of a small molecule inhibitor ligand against hyperphosphorylated tau-induced mitochondrial and synaptic toxicities in Alzheimer disease	Pradeep Jangampalli ★ P. Hemachandra Reddy	HSC	Oct 27, 2021	Archived
2022-018	Cooling system for shipment of mammalian sperm collected in the ProteX/Truebreed collection device	Samuel Prien ★	HSC	Nov 5, 2021	Archived
2022-019	Chest Tube closure with securement device	John Ciubuc Muhammad H. Nazim Jasmin Rahesh ★	HSC	Nov 8, 2021	Archived
2022-020	Detecting passengers descending subway platform stairs using passenger trajectory model	Jo Woon Chong ★	TTU	Nov 11, 2021	Archived
2022-021	Urolithin A and EGCG combination therapy for AD	P. Hemachandra Reddy ★	HSC	Nov 11, 2021	Archived
2022-022	Modular Respiratory Sensor Integration Block System	Robert Duncan ★ Shelby Lacouture Annette Sobel Paul D Walter Brian Williams	Joint	Nov 17, 2021	Active
2022-023	Design Project: Burn Bed	Senja A. Collins Jeffrey L Hanson ★ Shel R Harrison	TTU	Jan 25, 2022	Active

Invention Number	Invention Title	Inventors	Institution	Disclosure Date	Disclosure Status
2022-024	Reconstruction of the Cotton Fiber Length Distribution from a Fibrogram	Eric F Hequet Abu Sayeed Christopher Turner ★	TTU	Dec 17, 2021	Active
2022-025	A Novel Microwave Topology Based on Simultaneous Injection-Locking and Injection-Pulling for Indoor Passive Sensing	Changzhi Li ★ Davi Rodrigues	TTU	Dec 17, 2021	Related to
2022-026	High-throughput Device for the Fast and Reliable Measurement of Cotton Fiber Quality	Brendan R Kelly ★ Aniruddha Ray Hamed Sari-Sarraf	TTU	Dec 21, 2021	Active
2022-027	An RNA gene expression signature that predicts poor response to induction chemotherapy in neuroblastoma	Patrick Reynolds ★	HSC	Jan 4, 2022	Archived
2022-028	Efficacy of Organoselenium-incorporated Catheter Tubing in Growth Inhibition of Bacterial and Yeast biofilms	Werner deRiese Ted W. Reid ★ Phat L. Tran	HSC	Jan 5, 2022	Active
2022-029	Improvement to 2022-014 using a diode as mixer	Changzhi Li ★ Davi Rodrigues Dongyang Tang	TTU	Jan 12, 2022	Related to
2022-030	Rapid Synthetic Access to Functionalized Allopurinol Derivatives for Alzheimer's Disease Treatment	Paul C Trippier ★	HSC	Jan 12, 2022	Archived
2022-031	Razor rinser/unclogger with disposable hair catches and a blade sharpener	Jamie K Travis ★	External	Jan 14, 2022	Archived
2022-032	Rapid COVID and HIV Detection Sensor: Test Kits for SARS-CoV-2	Gerardine G. Botte ★	TTU	Jan 24, 2022	Exclusive License
2022-033	Modified BI01383298 analogs to correct NaCT folding mutations; or Therapeutic development of NaCT corrector molecules	Vadivel Ganapathy Valeria Jaramillo-Martinez Ina Urbatsch ★	HSC	Jan 24, 2022	Archived
2022-034	Upgrades to the basic methodology to predict wind and surge damage to buildings by hurricane	Douglas A. Smith ★	TTU	Feb 3, 2022	Active
2022-035	Semiconductor Neutron Detectors with Ability for Detecting Thermal to Fast Neutrons	Hongxing Jiang ★ Jing Li Jingyu Lin Attasit Tingsuwatit	TTU	Feb 4, 2022	Active
2022-036	Integrated Cardiovascular Performance Simulation and Experimentation Platform	Atila Ertas ★	TTU	Feb 13, 2022	Archived
2022-037	Guar and guar-cellulose composite materials	Noureddine Abidi ★ Sumedha Liyanaage	TTU	Feb 14, 2022	IPRC
2022-038	Identification of a novel JNK inhibitor for an alternative treatment of SMA	Laxman D. Gangwani ★	HSC-EP	Feb 16, 2022	Active
2022-039	Automated Canine Odor Recognition Test	Edgar Aviles Rosa Mallory DeChant Nathaniel J Hall ★ Paola Tiedemann	TTU	Feb 21, 2022	IPRC
2022-040	Medical Education and Evaluation software which allows access to Online Medical Ed companies	John Ciubuc Hassan Khalid Sarah Kiani ★	HSC	Feb 22, 2022	Under Option
2022-041	Safe Gro LLC Company & Alternative Agriculture Growth Building Prototype	John Mazziotti ★	TTU	Feb 22, 2022	Archived
2022-042	Chaya Leaves and Anti-diabetic properties Article to Cells MDPI	Cameron Griffith Bhagavathi Ramasubramanian P. Hemachandra Reddy ★	Joint	Feb 24, 2022	Archived
2022-043	T cell-based therapy targeting interferon-stimulated gene 15 in renal cell carcinoma	Hong-My Nguyen Laurence M Wood ★	HSC	Feb 25, 2022	Active
2022-044	This is a study detailing the characterization of the phenotypic effect of Endoglin(CD105) on renal cell carcinoma tumors and how its expression affects tumor microenvironment and therapeutic response	Mariam Oladejo Laurence M Wood ★	HSC	Feb 28, 2022	Archived
2022-045	Anti-cancer and immunomodulatory effects of milbemycin oxime, a known antiparasitic agent	Shreyas Gaikwad Sanjay K. Srivastava ★	HSC	Mar 1, 2022	Archived
2022-046	A Novel Bioink for solid tumor Bioprinting	Shreyas Gaikwad Sanjay K. Srivastava ★	HSC	Mar 1, 2022	Related to
2022-047	Multimodal, Bio-printed Tumor Model for Oncology Drug Discovery Research	Shreyas Gaikwad Sanjay K. Srivastava ★	HSC	Mar 1, 2022	Active
2022-048	Chaya pet food supplements	Cameron Griffith ★	TTU	Mar 4, 2022	Archived
2022-049	Microneedle Tattoos	Harvinder Gill ★	TTU	Mar 4, 2022	Archived
2022-050	small-acreage overhead crop netting kit	Gabriella Hale ★ Gary Hale	External	Mar 14, 2022	Archived
2022-051	EAGER: Water Continuity on the Performance of Osmotically Driven Membrane Processes	Lianfa Song ★	TTU	Mar 14, 2022	Returned to Inventor

Invention Number	Invention Title	Inventors	Institution	Disclosure Date	Disclosure Status
2022-052	Toward an omniopicon: the potential of blockchain technology toward influencing vulnerable populations in contested markets	Heather Carrasco ★	TTU	Mar 15, 2022	Archived
2022-053	Selective Removal of Barium and Hardness Ions from Brackish Water with Chemically Enhanced Electrodialysis	Michael Findlater Kristin Hutchins ★ Weile Yan	TTU	Mar 22, 2022	IPRC
2022-054	NextGen Multi-Purpose Combat Firefighting Helmet	Hossein Bahreinizad Suman Chowdhury ★ Weilong Cong Shuang Jin Greg Mckenna Gustavo Paulon Felipe Santos Leonardo Wei	TTU	Apr 2, 2022	IPRC
2022-055	NextGen Firefighter's Combat Helmet Shell	Hossein Bahreinizad Suman Chowdhury ★ Weilong Cong Shuang Jin Greg Mckenna Felipe Santos Leonardo Wei	TTU	Apr 5, 2022	IPRC
2022-056	A sandwich-structured ballistic suspension padding design	Suman Chowdhury ★ Greg Mckenna Felipe Santos	TTU	Apr 5, 2022	IPRC
2022-057	Evidence Based Practice Technology (EBP Tech) intellectual merit is to generate new knowledge of how evidence-based practice translates to technology (telehealth). The product is a software health application to train and educate mental health clinic	Wanda Hilliard ★ Rosalinda Jimenez	HSC	Apr 11, 2022	Active
2022-058	Cell-Laden Bioink Circulation-Assisted Inkjet-Based Bioprinting to Mitigate Cell Sedimentation and Aggregation	Jiachen Liu Md Shahriar Changxue Xu ★ Heqi Xu	TTU	Apr 17, 2022	Active
2022-059	INSUL-80: Selectively Reversible and Tamper-Evident Temperature-Sensitive Indicator for Medication Spoilage Due to Environmental Conditions	Baxter Krug ★ Ian Stark	External	Apr 17, 2022	Archived
2022-060	TM Quail-Tech	C. Brad Dabbert ★	TTU	Apr 18, 2022	Active
2022-061	Method/s for coating of dental floss	Harvinder Gill ★ Rohan Suresh Ingrole Akhilesh Shakya	TTU	Apr 18, 2022	Related to
2022-062	Smartphone Photoplethysmography-Based Biometric Authentication on Subjects	Jo Woon Chong ★ Yifan Li Bengie L Ortiz-Del-Valle	TTU	Apr 22, 2022	IPRC
2022-063	Risk Assessment of Oil & Gas Wells within Area of Review (AoR) of Carbon Capture & Storage (CCS) Projects with minimal information	Nachiket Arbad ★ Lloyd R Heinze Marshall Watson	TTU	Apr 26, 2022	Active
2022-064	Improved Process for Formulas/Recipes with Multiple Ingredients	Richard S. Meyer ★	TTU	May 2, 2022	Assess
2022-065	A novel QKO vaccine for tuberculosis	Kishore Das Subramanian Dhandayuthapani ★ Omar Garniga Chinnaswamy Jagannath	HSC-EP	Apr 27, 2022	Active
2022-066	Listeria Monocytogenes as a vector for tumor-specific delivery of chemotherapeutic agents	Wyatt Paulishak Laurence M Wood ★	HSC	May 2, 2022	Active
2022-067	The methods and protocols to develop food induced allergic and anaphylaxis reactions in porcine animal model	Brittany Backus Harvinder Gill ★ Lazar Nesovic Akhilesh Shakya	TTU	May 10, 2022	IPRC
2022-068	Preparation of ionic cocrystals containing beta blockers using mechanochemistry	Kristin Hutchins ★ Jesus Daniel Loya	TTU	May 10, 2022	Related to
2022-069	Novel biomarkers/biomarker signatures to distinguishes major and minor histological and immune subtypes of hepatic cancers	Johnathan Abou-Fadel Jun Zhang ★	HSC-EP	May 11, 2022	Active
2022-070	Systems and methods for predicting treatment outcomes and post-operative risk for cardiac surgeries	Dongping Du Nandini Nair ★	HSC	May 12, 2022	IPRC
2022-071	TM - In 2020, a new organization named El Paso-Health Education and Awareness Team (EP-HEAT) was created at TTUHSC El Paso.	Jessica Chacon ★	HSC-EP	May 12, 2022	Trademark
2022-072	Fluorescent Protein Kinase Analysis in Live Cells	Leaf Huang Hongjun Liang Degeng Wang ★	Joint	May 12, 2022	IPRC
2022-073	AGGREGATION-INDUCED POLARIZATION (AIP), AGGREGATION-INDUCED SYNTHESIS (AIS) AND NEW CHIRALITY OF MAKING AND USE THEREFOR	Guigen Li ★	TTU	May 17, 2022	Active

Invention Number	Invention Title	Inventors	Institution	Disclosure Date	Disclosure Status
2022-074	Identification of the grade/degrees of burns and determination of the surgery requirement depending on the wound conditions in a continuous monitoring process using machine learning.	Jo Woon Chong Bipasha Kundu Yifan Li Alan Pang	Joint	May 23, 2022	Non-Enabling
2022-075	Dietary short chain fatty acids to prevent stroke, hypertension and chronic kidney disease.	Prasanth Chelikani Souvik Patra	TTU	May 23, 2022	Archived
2022-076	Equine Allergic Airway Diagnosis and Environmental Air & Allergen Assessment	Laszlo Hunyadi Emily Ann Sundman	TTU	May 30, 2022	IPRC
2022-077	RaiderVet	Laszlo Hunyadi	TTU	May 30, 2022	Trademark
2022-078	Phytomelatonin as an immunostimulant during vaccination	Whitney Crossland	TTU	May 30, 2022	Assess
2022-079	TEMP: Children's Story	Jessica Chacon	HSC-EP	May 31, 2022	IPRC
2022-080	A process for a complete or substantially complete delignification of hemp bast fibers, woody biomass, and other lignocellulosic materials in deep eutectic solvents with use of thermal and/or microwave heating.	Noureddine Abidi Julia L. Shamsiina	TTU	Jun 6, 2022	IPRC
2022-081	Reactive Flowing Atmospheric Pressure Afterglow Desorption and Ionization Source for Mass Spectrometry	Gerardo Gamez	TTU	Jun 7, 2022	Active
2022-082	Chemical-modulated transgenerational memory effects on multiple plant metabolic pathways that result in better plant sustainability and enhancement of abiotic stress tolerance in crops	Monty Christian Chien V Ha Luis Rafael Herrera-Estrella Lam-Son Phan Tran	TTU	Jun 8, 2022	Active
2022-083	Laser Assisted Pyrolysis Flowing Atmospheric Pressure Afterglow Desorption and Ionization Source for Mass Spectrometry	Gerardo Gamez	TTU	Jun 8, 2022	Archived
2022-084	Methods and Materials for Sustained, Nuclear Chain Reactions without Conventional Fission, and without nuclear waste, or with minimal nuclear waste when used in concert with conventional nuclear reactor fuels.	Robert Duncan	TTU	Jun 8, 2022	Assess
2022-085	HOST - Hierarchy Of Speech Targets Software Manual	Jo Woon Chong	TTU	Jun 10, 2022	Assess
2022-086	Selective and dual acting TSPO ligands	Nadezhda German Siavash Nia Shadboazi	HSC	Jun 14, 2022	IPRC
2022-087	Expanding foam stabilizing orthopedic splint	David Shane Harper	HSC	Jun 14, 2022	IPRC
2022-088	Underlying Distributed Ducted Fan-Airfoil "FanFoil" Technique for Transformational Aerodynamic and Aeroacoustic Performance	Victor Maldonado	TTU	Jun 17, 2022	IPRC
2022-089	Device for the Passive Separation of Motile Sperm from Freshly Ejaculated Samples	Lindsay Peirose Samuel Prieth	HSC	Jun 20, 2022	IPRC
2022-090	A partial reduction of VDAC1 enhances mitophagy, autophagy, synaptic activities in a transgenic Tau mouse model	P. Hemachandra Reddy Murali Vijayan	HSC	Jun 20, 2022	Archived
2022-091	Mechanized Formwork for Rammed Earth block construction applications	Steve Guzman Jody Hicks		Jun 28, 2022	IPRC
2022-092	Particulate matter circulation system for laboratory-based exposure experiments.	Frank Green Eric Peterson Philip Smith	TTU	Jun 29, 2022	Archived
2022-093	Snack Meat Coating	Richard S. Meyer	TTU	Jun 30, 2022	Assess
2022-094	Nanoparticle size and elemental composition characterization via Glow Discharge Optical Emission Spectrometry	Gerardo Gamez	TTU	Jun 30, 2022	Assess
2022-095	Ultrasound-assisted solid Lewis acid-catalyzed transesterification of Lesquerella fendleri oil for biodiesel synthesis	Dominick Casadonte Cari Robin Hart Mohammed Shahidul Islam	TTU	Jul 11, 2022	IPRC
2022-096	Empathetic Chatbot for flare up management and empathetic companionship in the women's health domain.	Christopher Fortuna	External	Jul 8, 2022	Archived
2022-097	Pediatric Child Position Holder and Methods of Using Same	Frank Quattromani	External	Jul 12, 2022	IPRC
2022-098	System and method for controlling gaming, technology, musical instruments, and environmental settings via detection of neuromuscular activity	Jennifer Robin Hanners	External	Jul 8, 2022	IPRC
2022-099	Method for filtering and concentrating solutes in solutions using blocked electric fields.	Guarav Anand Samira Saariipour Tabalvandani Craig Sneyink	TTU	Jul 13, 2022	IPRC
2022-100	Capillary-Embedded Rapid Adaptable Multiscale (CERAM) Bioprinting for Engineering Large Vascularized Tissues	George Tin	TTU	Jul 22, 2022	Assess
2022-101	Dropsizes-Reducing Bottleneck-Cap-Bridging Eyedrop Bottle Attachment ("Dropnu" Attachment)	Garren Ferreira Kavin Par Matt Porter Rahul Ravella Vamsee Ravella	External	Jul 26, 2022	Assess

Invention Number	Invention Title	Inventors	Institution	Disclosure Date	Disclosure Status
2022-102	Chemically Enhanced ElectroDialysis (CEED): A Platform for Recovery of Rare-Earth Elements	Michael Findlater Kristin Hutchins ★ Weile Yan	Joint	Jul 29, 2022	Assess
2022-103	A system for measuring one's susceptibility to social engineering attacks.	Keith S Jones ★ Akbar Siami Namin	TTU	Aug 2, 2022	Assess
2022-104	Extended Reality (XR) Attentional Visual Field (AVF) Task	HeeSun Choi ★ Daxton Mitchell Seth Boese	TTU	Aug 4, 2022	Archived
2022-105	Micronutrient Delivery to Gum Pocket	Harvinder Gill ★ Rohan Suresh Ingrole David Syn	TTU	Aug 5, 2022	IPRC
2022-106	Oriental Chirality, its Asymmetric Control and Computational Study	Guigen Li ★	TTU	Aug 11, 2022	Assess
2022-107	A portable radiation shielding protection device designed to limit operator exposure from scatter radiation when doing digital x-ray imaging of small specimens in an open room/laboratory/area environment.	Robert A. Danforth ★	HSC-EP	Aug 17, 2022	Assess
2022-108	Low Sodium Salt Substitute Compositions	Richard S. Meyer ★	TTU	Aug 17, 2022	Assess
2022-109	Scaffolding Worksheets for the WHEW Note Writing Technique. (WHEW: An Efficient and Effective Note Writing Technique)	Molly Setliff ★	HSC	Aug 29, 2022	Assess
2022-110	Fascial Elevator Implement for Bovine Cautey	David Shane Harper ★	HSC	Aug 16, 2022	Non-Enabling

Appendix B

FY22 Provisional Patent Applications Filed

Intellectual Property Tracking Code	Inventions	Intellectual Property Title	Application Date	Application No.	Type	Inventors
2020-112-02	2020-112	SYSTEM, METHOD AND APPARATUS FOR GENERATING RANDOMLY ALIGNED FIBER BEARDS FOR OBJECT EVALUATION	Oct 20, 2021	63257645	Provisional	Brendan R Kelly ★
2021-003-02	2021-003	DESIGN AND SYNTHESIS OF NEW CHIRAL MONOMERS, OLIGOMERS, POLYMERS AND METHODS AND REAGENTS OF MAKING AND USE THEREOF	Feb 7, 2022	63/307,272	Provisional	Guigen Li ★
2021-007-02	2021-007	MULTI-ORIFICE JET INJECTOR	Apr 19, 2022	63/332,356	Provisional	Jeremy Marston ★ Yatish Sunil Rane
2021-014-02	2021-014	USE OF RECOMBINANT HUMAN THIOREDOXIN (RHTRX)	Aug 15, 2022	63/398,093	Provisional	Kumuda C Das ★
2021-030-01	2021-030	NOVEL UREA-BASED INHIBITORS OF THE DOPAMINE TRANSPORTER AND METHODS FOR TREATMENT OF NEURODEGENERATIVE AND NEUROINFLAMMATORY DISORDERS	Dec 16, 2021	63/290,580	Provisional	Nadezhda German ★
2021-033-01	2021-033	Improvement of DNase1L3 Serum Half-Life	Dec 15, 2021	63/289,789	Provisional	Roger B Sutton Peter Keyel ★ Jon McCord
2021-041-01	2021-041	MOLECULAR DISCRIMINATION OF COMMODITY SPECIFIC SALMONELLA SEROTYPES	Oct 26, 2021	63271919	Provisional	Kendra K. Nightingale ★ Peter Cook Tyler Stephens
2021-049-01	2021-049	MACROPOROUS GRAPHENE MEMBRANE	Feb 15, 2022	63/310,458	Provisional	Mahdi Malmali ★
2021-060-01	2021-060	Platform for the Recovery of Transition Metal Catalysts	Jan 28, 2022	63/304,119	Provisional	Guigen Li Michael Findlater ★
2021-067-02	2021-067	CEMENT FORMULATIONS AND USES THEREOF	May 13, 2022	63341593	Provisional	Marshall Watson Hossein Emadi Athar Hussain ★
2021-069-01	2021-069	PREPARATION OF CHITIN NANOCRYSTALS FROM CRUSTACEAN BIOMASS USING IONIC LIQUID	Oct 7, 2021	63253307	Provisional	Noureddine Abidi ★ Julia L. Shamshina
2021-074-01	2021-074		Sep 3, 2021	63/240,405	Provisional	Kristin Hutchins ★
2021-077-01	2021-077	SELENIUM CONTAINING ANTIMICROBIAL COMPOUND AS A REACTIVE DYE AND CROSS-LINKING TREATMENT FOR TEXTILE APPLICATIONS	Oct 7, 2021	63253326	Provisional	Ted W. Reid ★ Noureddine Abidi Nick B. Bergfeld
2021-081-01	2021-081	IN-SITU HYDROGEN GENERATION AND PRODUCTION FROM PETROLEUM RESERVOIRS	Sep 20, 2021	63245981	Provisional	Qingwang Yuan ★ Bo Ren
2021-093-01	2021-093	SUPPORTED ABSORBENTS FOR AMMONIA SEPARATION	Jun 23, 2022	63/354,955	Provisional	Mahdi Malmali ★
2021-098-01	2021-098	Surgical suture training device with mechanical feedback.	Dec 2, 2021	63/285,465	Provisional	Paul Egan ★ Catherine Ronaghan Travis Reiss Kyle Fenn
2021-099-01	2021-099	COPPER HYDROGEL BEADS AS A DIET SUPPLEMENT	Nov 8, 2021	63276836	Provisional	Maria A Calle ★ Arlene Garcia-Marquez Jon Thompson Marianna (Maria) Fernandez de la Garza
2021-102-01	2021-102	Single-Chain Immune Modulator (SCIM)	Dec 2, 2021	63/285,167	Provisional	Roger B Sutton ★ Matthew Hirsch
2021-104-01	2021-104	Multi-Sensory Enrichment with Self-Administering Health Product Delivery System	Oct 4, 2021	63/252,009	Provisional	John J. McGlone ★
2021-104-02	2021-104	MULTI-SENSORY ENRICHMENT WITH SELF-ADMINISTERING HEALTH PRODUCT DELIVERY SYSTEM	May 31, 2022	63/347,331	Provisional	John J. McGlone ★

Intellectual Property Tracking Code	Inventions	Intellectual Property Title	Application Date	Application No.	Type	Inventors
2022-002-01	2022-002	MODIFIED SEEDS AND PLANTS WITH RESISTANCE TO ENVIRONMENTAL STRESS AND METHODS OF USING THE SAME	Dec 23, 2021	63/293,175	Provisional	Hong Zhang ★
2022-003-01	2022-003	INTERMEDIATE PASSIVE WIRELESS LOOP COIL AND METHODS OF USE THEREOF	Jan 3, 2022	63296065	Provisional	Bashir Iqbal Morshed ★ Mahfuzur Rahman
2022-005-01	2022-005	INTERIOR CHARACTERIZATION OF OPAQUE INTERFACE-BOUND DOMAINS USING SURFACE-WAVE SPECTROSCOPY	May 20, 2022	63/344,320	Provisional	Sukalyan Bhattacharya ★
2022-013-01	2022-013	METHODS AND SYSTEMS FOR QUANTUM COMPUTING	Nov 2, 2021	63/274,877	Provisional	Lionel William "Bill" Poirier ★
2022-014-02	2022-014	MICROWAVE ARCHITECTURE FOR PASSIVE SENSING APPLICATIONS	Jan 15, 2022	63299942	Provisional	Changzhi Li ★ Davi Rodrigues Dongyang Tang
2022-016-01	2022-016	Synaptosomal miRNAs and Synapse Functions in Alzheimer's Disease	Apr 20, 2022	63/332,866	Provisional	P. Hemachandra Reddy Subodh Kumar ★ Shelby Lacouture
2022-022-01	2022-022	MODULAR RESPIRATORY SENSOR INTEGRATION BLOCK SYSTEM	Apr 25, 2022	63334254	Provisional	Robert Duncan ★ Annette Sobel Paul D Walter Brian Williams
2022-024-01	2022-024	RECONSTRUCTION OF THE COTTON FIBER LENGTH DISTRIBUTION FROM A FIBROGRAM	Apr 5, 2022	63/327,623	Provisional	Eric F Hequet Abu Sayeed Christopher Turner ★
2022-026-01	2022-026	METHOD OF EVALUATING FIBER QUALITIES	Dec 23, 2021	63/293,448	Provisional	Hamed Sari-Sarraf Brendan R Kelly ★ Aniruddha Ray
2022-028-01	2022-028	ORGANO-SELENIUM-INCORPORATED URINARY CATHETER TUBING	Jul 7, 2022	63/358,893	Provisional	Ted W. Reid ★ Werner deRiese Phat L. Tran
2022-035-01	2022-035	SEMICONDUCTOR NEUTRON DETECTORS	Mar 15, 2022	63319988	Provisional	Hongxing Jiang ★ Jingyu Lin Jing Li Attasit Tingsuwatit
2022-038-01	2022-038	AN ALTERNATIVE (SMN-INDEPENDENT) METHOD FOR THE TREATMENT OR PREVENTION OF SPINAL MUSCULAR ATROPHY	Feb 26, 2022	63/314,383	Provisional	Laxman D. Gangwani ★
2022-043-01	2022-043	RENAL CELL CARCINOMA THERAPY	Jul 15, 2022	63/389,531	Provisional	Laurence M Wood ★ Hong-My Nguyen
2022-047-01	2022-047	In Vitro Bioprinted Tumor Models and Bioninks for Solid Tumor Bioprinting	Mar 24, 2022	63/323,156	Provisional	Sanjay K. Srivastava ★ Shreyas Gaikwad
2022-058-01	2022-058	CELL-LADEN BIOINK CIRCULATION-ASSISTED INKJET-BASED BIOPRINTING TO MITIGATE CELL SEDIMENTATION AND AGGREGATION	Aug 3, 2022	63/394,897	Provisional	Changxue Xu ★ Jiachen Liu Md Shahrir Heqi Xu
2022-063-01	2022-063	SYSTEM AND METHOD FOR CATEGORIZING AND ASSESSING WELLS	May 10, 2022	63340034	Provisional	Lloyd R Heinze Marshall Watson Nachiket Arbad ★
2022-065-01	2022-065	A NOVEL QUADRUPLE KNOCKOUT (QKO) VACCINE FOR TUBERCULOSIS	May 27, 2022	63/346,576	Provisional	Subramanian Dhandayuthapani ★ Kishore Das Omar Garniga Chinnaswamy Jagannath
2022-073-01	2022-073	AGGREGATION-INDUCED POARIZATION (AIP), AGGREGATION-INDUCED SYNTHESIS (AIS) AND NEW CHIRALITY OF MAKING AND USE THEREOF	May 20, 2022	63344151	Provisional	Guigen Li ★
2022-081-01	2022-081	REACTIVE FLOWING ATMOSPHERIC PRESSURE AFTERGLOW DESORPTION AND IONIZATION SOURCE FOR MASS SPECTROMETRY	Jul 12, 2022	63/388,602	Provisional	Gerardo Gamez ★
2022-082-01	2022-082	CHEMICAL-MODULATED TRANSGENERATIONAL MEMORY EFFECTS ON MULTIPLE PLANT METABOLIC PATHWAYS	Jul 13, 2022	63/388,878	Provisional	Luis Rafael Herrera-Estrella Chien V Ha ★ Lam-Son Phan Tran Monty Christian

Appendix C

FY22 Issued US Patents

Intellectual Property Tracking Code	Country of Filing	Intellectual Property Title	Application Date	Intellectual Property Number	Issue Date	Inventors
2021-002-01	United States	High pressure frozen sterilization process	Jun 25, 2008	11,154,080	Oct 26, 2021	Richard S. Meyer ★
D-1083-03	United States	SYSTEM AND METHOD FOR ASSESSING EMBRYO VIABILITY	Dec 29, 2016	11,169,064	Nov 9, 2021	Lindsay Penrose Samuel D Prien ★
D-1096-03	United States	FLUID FLOW ENERGY EXTRACTION SYSTEM AND METHOD RELATED THERETO	Mar 30, 2017	11,118,564	Sep 14, 2021	Carsten H. Westergaard ★
D-1187-03	United States	Apparatus and Computerized Method for Predicting Asphaltene Precipitation Based on Aggregation Thermodynamics	Oct 25, 2017	11,177,021	Nov 16, 2021	Meng Wang Yifan Hao Md Islam Chau-Chyun Chen ★
D-1346-02	United States	VIBRATION ENERGY HARVESTING USING A BASE MOUNTED PIEZOELECTRIC TRANSDUCER	May 10, 2018	11,271,497	Mar 8, 2022	Serdar Gorumlu Robert Koven Burak Aksak ★
D-1353-03	United States	WIDE INJECTION RANGE OPEN CIRCUIT VOLTAGE DECAY SYSTEM	Apr 23, 2020	11,143,694	Oct 12, 2021	Stephen Bayne Shelby L Lacouture ★
D-1358-03	United States	METHODS AND SYSTEMS FOR BALLOONED HYDRAULIC FRACTURES AND COMPLEX TOE-TO-HEEL FLOODING	Jan 9, 2020	11,274,538	Mar 15, 2022	Lloyd R Heinze Mohamed Soliman Ahmed A. Mohamed ★
D-1365-03	United States	Functionalized Pyridine Carbamates with Enhanced Neuroprotective Activity	Jan 13, 2020	11,369,593	Jun 28, 2022	Paul C Trippier ★ Rose-Mary Boustany Nihar Kinarivala
D-1375-03	United States	Methods and Devices for the Treatment of Food Allergies	Nov 22, 2019	11,318,199	May 3, 2022	Harvinder Gill ★ Akhilesh Shakya
D-1375-08	United States	Methods and Devices for the Treatment of Food Allergies	Jun 22, 2021	11,311,617	Apr 26, 2022	Harvinder Gill ★ Akhilesh Shakya
D-1387-05	United States	Polymer-Encased Nanodiscs With Improved Buffer Compatibility	Oct 7, 2020	11,332,555	May 17, 2022	Guillermo A Altenberg Hongjun Liang ★
D-1406-03	United States	Zika Virus Like Particle (VLP) Based Vaccine and Microneutralization Assay	Dec 9, 2019	11,286,502	Mar 29, 2022	Himanshu Garg ★ Anjali Joshi
D-1409-03	United States	Compositions and Methods for Treating Cancer	May 8, 2020	11,357,766	Jun 14, 2022	Sanjay K. Srivastava ★ Sharavan Ramachandran
D-1426-02	United States	SPACE-TO-TIME CONVERSION TECHNIQUE USING REMOTELY SENSED VELOCITY FIELDS	Mar 15, 2019	11,268,973	Mar 8, 2022	John L. Schroeder Brian Hirth James Duncan ★
D-1428-03	United States	SUBSTITUTED BISPHENYLALKYLUREA COMPOUNDS AND METHODS	Feb 7, 2020	11,225,459	Jan 18, 2022	Nadezhda German ★ Constantinos M Mikelis
D-1434-03	United States	HYDROPHILIC NANOSTRUCTURED MEMBRANE ACTIVE ANTIMICROBIALS WITH HIGH ACTIVITY, SELECTIVITY AND BIODEGRADABILITY	Feb 1, 2019	11,395,804	Jul 26, 2022	Hongjun Liang ★
D-1444-05	United States	ENHANCED CHEMICAL CHARACTERIZATION OF SOLID MATRICES USING X-RAY FLUORESCENCE AND OPTICAL COLOR REFLECTANCE	Sep 30, 2020	11,187,692	Nov 30, 2021	David C Weindorf ★ Delaina Pearson Somsubhra Chakraborty
D-1448-02	United States	CRM1 INHIBITORS REDUCE PRIMARY AND ACQUIRED RESISTANCE OF EGFR INHIBITORS IN LUNG CANCER CELLS	Apr 3, 2019	11,266,624	Mar 8, 2022	Weimin Gao ★
D-1500-03	United States	NON-COVALENT COMPLEX-BASED SENSORS	Mar 26, 2020	11,327,023	May 10, 2022	Gregory Fernandes ★
D-1501-04	United States	METHOD AND APPARATUS FOR COLLECTION OF FLUID SAMPLES	Jun 30, 2021	11,399,811	Aug 2, 2022	Samuel D Prien ★

Intellectual Property Tracking Code	Country of Filing	Intellectual Property Title	Application Date	Intellectual Property Number	Issue Date	Inventors
D-1508-03	United States	SELF-ATTENUATED PROPHYLACTIC AND THERAPEUTIC VACCINES AGAINST PATHOGENS	Oct 19, 2020	11,389,526	Jul 19, 2022	Mingtao Zeng ★ Ke Wen
D-1543-01	United States	Device and Method to Compensate for Air Leak from an Anesthesia Circle Circuit	Jan 31, 2019	11,173,262	Nov 16, 2021	Bradley P. Fuhrman ★
D-1578-02	United States	Systems and Methods for Predictively Managing Collections of Items	Sep 19, 2019	11,200,536	Dec 14, 2021	Ryan S. Litsey ★ Scott M. Luker Weston W. Mauldin Jingyu Lin
D-1595-02	United States	SOLID-STATE NEUTRON DETECTOR	Jun 10, 2020	11,195,968	Dec 7, 2021	Hongxing Jiang ★ Avishek Maity Sam Grenadier Jing Li
D-1605-02	United States	EGGLESS, HEAT STABLE MAYONNAISE-TYPE DRESSING	Nov 1, 2018	11,357,247	Jun 14, 2022	Richard S. Meyer ★

Texas Tech University System Intellectual Property Summary
 July 28, 2022

The Office of Research Commercialization (ORC) was established under the Texas Tech University System in 1998. Since inception the office has received over 1,838 invention disclosures, filed by the research faculty at Texas Tech, Texas Tech Health Sciences Center, and TTUHSC-El Paso. Under Regents Rules, all inventions related to employment and created with significant use of University Resources are owned by the System.

From these invention disclosures, the ORC filed patent applications, and U.S. patents eventually issued on 228 of the technologies, or about 12.4% of the filed invention disclosures. The normal time from invention disclosure to patent issuance is 5.5 years.

The ORC has executed 175 exclusive or non-exclusive license agreements covering those patent rights and currently has 61 active license agreements in place. 44 of the active agreements (72%) are with start-up companies created to commercialize the System's patent rights, though not all start-up licensees are local or have participated in Innovation Hub programming.

Since the ORC was established, patent rights have been licensed to 82 start-up companies. This represents 47% of our total license agreements and 29% of our issued patents.

Since 2014, the ORC has generated \$7.1 million in gross license revenue. Through FY21, the license agreements that have created the most revenue for the ORC are as follows:

Company	ID#	Type	Status	Technology	Revenue(K)
NuPark	0771	Start-Up	Expired	Parking Lot Management	\$1,036
Chrs. Hansen	0485	Industry	Current	Probiotic Cattle Feed	\$901
Acadian	0158	Industry	Expired	Probiotic Cattle Feed	\$764
ThermoFisher	0571	Industry	Current	Liquid Chromatography	\$388
SmartWind	0901	Start-Up	Current	Wind Farm Development	\$253
MicroZap	0504	Start-Up	Current	Food Process	\$189
NeoFluidics	0881	Start-Up	Current	Microfluidic Chip	\$157
Hobbs Fibers	0384	Industry	Current	Protective Wipe	\$120
NexGen	1272	Start-Up	Current	Pet Food Product	\$129

Revenues through **FY21** for licensed technologies considered high potential, still in product development:

Company	ID#	Type	Status	Technology	Revenue(K)
LyteGro	0760	Start-Up	Current	Bacteria Growth Supplement	\$115
Gap Peptides	1227	Start-Up	Current	Peptide Synthesis Process	\$117
Essentium	1038	Industry	Current	3-D Printing Filament	\$ 70
Animal Biotech	0957	Industry	Current	Swine Health Product	\$ 46
Moonlight	1375	Start-Up	Current	Peanut Allergy Treatment	\$ 34
RegenKera	1465	Start-Up	Current	Dry Eye Therapy	\$ 30
First Wave	1543	Industry	Current	Med Device - Anesthesia	\$ 14
RSI	1501	Start-Up	Current	Med Device – Fertility	\$ 9

Acquisitions:

The ORC has also had three start-up companies with licensed technologies be acquired by Industry. In two cases the System owned equity in the company and was able to generate income from the liquidation of our equity positions upon completion of the acquisition. In all cases the technology has better market potential under ownership of the larger company.

- NuPark acquired on 10/09/2018 for \$22 million. NuPark was an Innovation Hub tenant.

<https://www.prnewswire.com/news-releases/passport-advances-mobility-platform-with-nupark-acquisition-300727901.html>

- NeoFluidics acquired on 12/24/2021 for \$22 million. NeoFluidics participated in the first accelerator cohort in 2013 and then established themselves in San Diego, CA.

<https://www.unchainedlabs.com/unchained-labs-goes-with-the-flow-launches-its-new-viscometer-honeybun/>

- Gap Peptides was acquired on July 28, 2022 for an undisclosed amount in the millions of dollars. Gap Peptides is an Innovation Hub tenant.