

FY 17-18 **CMBR** & SB 17-267 **CM** Funding

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT COMBINED CC/CM BUDGET REQUEST SUBMISSION TRANSMITTAL STATE BUILDINGS PROGRAMS

| To: | Rod Vanderwall |
|------------------------|--|
| From: | Shelly Carroll |
| Date submitted to OSA: | 7/22/2016 |
| Agency/Institution: | Colorado State University-Fort Collins |
| Phone No: | 970-491-0167 |
| Email address: | Shelly.carroll@colostate.edu |

| | STRUCTION BUDGET REQUEST FORMS: | Required / Optional | Submitted Yes or N/A |
|------------------------------------|--|---------------------------|-------------------------|
| CC-P | Five-Year Capital Construction Program | Required | |
| CC-C Cover | Capital Construction Request Cover Page (List all capital construction projects requested for FY17/18 by priority, project #, name, phase and dollar amount requested): | Required | |
| CC-C Narrative | **Capital Construction Request Narrative (Word) | Required | |
| CC-B Cover | Supplemental Capital Construction Request Cover | As Applicable | |
| CC-B Narrative | **Supplemental Capital Construction Request Cover (List all supplemental capital construction projects requested for FY17/18 by priority, project #, name, phase and dollar amount requested): | As applicable | |
| | D MAINTENANCE BUDGET REQUEST FORMS: tate agencies and institutions of higher education) | Required / Optional | Submitted Yes or N/A |
| SBP CM-1 | Controlled Maintenance Request Summary | Required | Y |
| SBP CM-2 | Five-Year Controlled Maintenance Program Plan | Required | Y |
| | | | |
| SBP CM-2.1 | Agency Asset Management Maintenance Strategy | Required | Y |
| | Agency Asset Management Maintenance Strategy **Controlled Maintenance Project Request(s) (List all controlled maintenance projects requested for FY17/18 by priority, project #, name, phase and dollar amount requested): | Required If applicable | Y Y |
| SBP CM-2.1 SBP CM-3 SBP CM-4 | **Controlled Maintenance Project Request(s) (List all controlled maintenance projects requested for FY17/18 by priority, project #, name, phase and dollar | | |
| SBP CM-3 | **Controlled Maintenance Project Request(s) (List all controlled maintenance projects requested for FY17/18 by priority, project #, name, phase and dollar amount requested): | If applicable | Y |

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| | D MAINTENANCE BUDGET REQUEST FORMS: state agencies and institutions of higher education) | Required / Optional | Submitted Yes or N/A |
|---------------|---|------------------------|-------------------------|
| SBP CM-6 | Vacant Facility Management Plan(s) | If applicable | Y |
| SBP APCC-1 | Action Plan for Code Compliance | Required | Y |
| REP A/D-1 | Acquisitions and Dispositions Report | As applicable | Y |
| EMP EPC-1 | Energy Performance Contract Report | If applicable | N/A |
| EMP HPCP-1 | High Performance Certification Program | If applicable | Y |
| | Agency's Code Compliance Action Plan | Required | Y |
| | Pictures in either JPEG or TIFF format | If applicable | Ý |
| | Drawings in either JPEG, TIFF, or PDF format | If applicable | Y |

* Electronic submission required for all documents

** Provide project request pictures/drawings in separate JPEG or TIFF format do not embed in request form

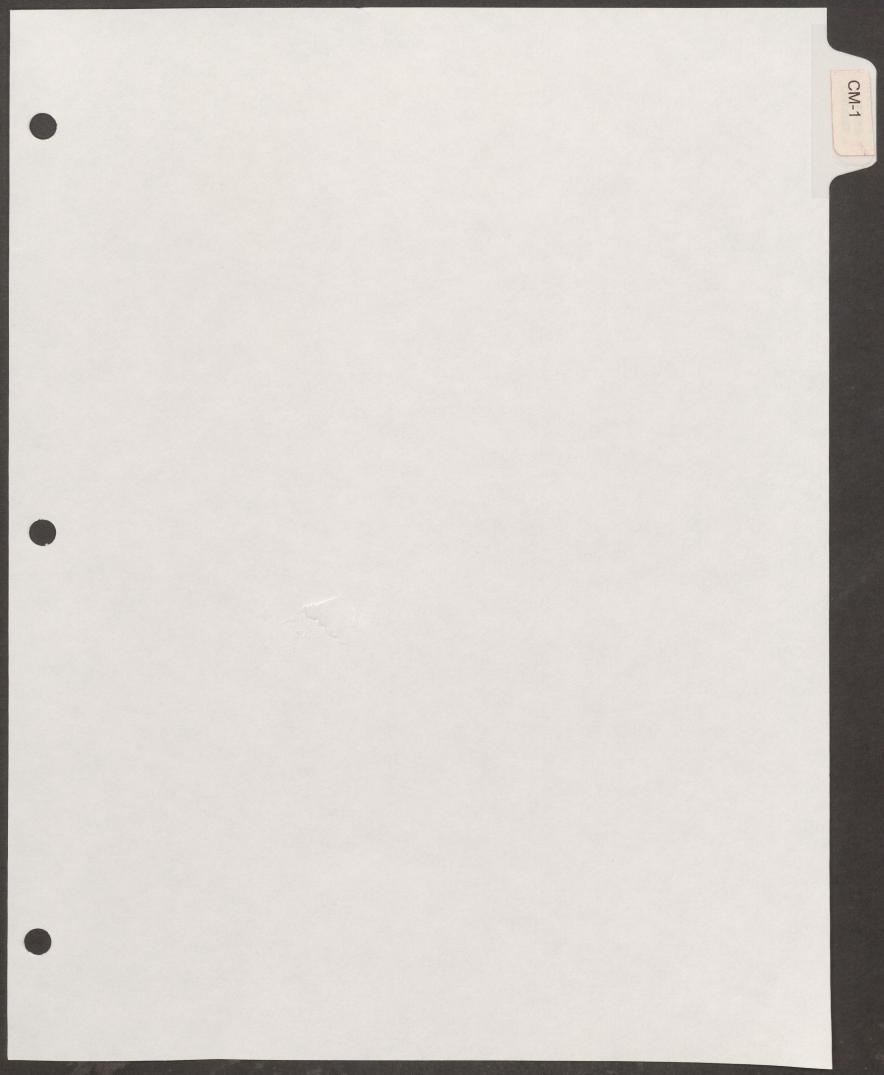
AGENCY APPROVAL

OSA/State Buildings Program Delegate:

Principal Representative (or Delegate)

Date Date

70-22-16



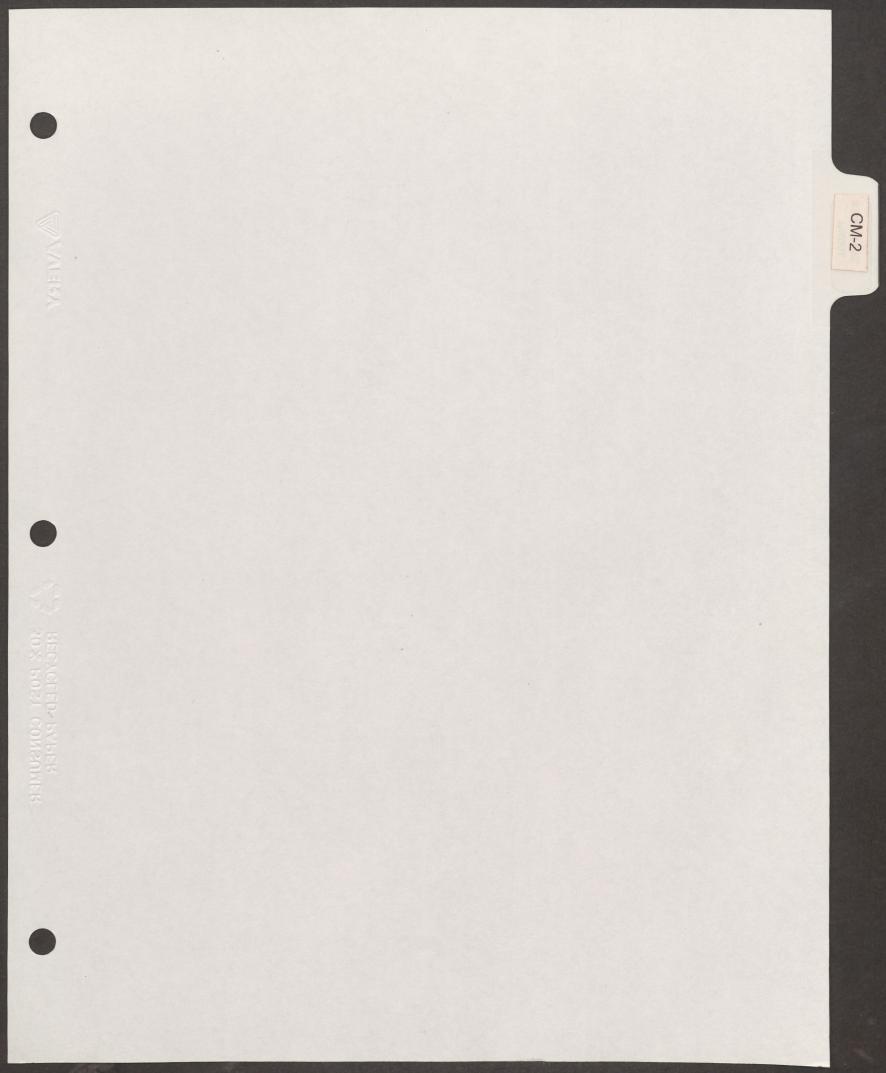
OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2016/2017 STATE BUILDINGS PROGRAMS

|) State Ag | ency 6/20/2016 | | 2) Institution of | f Higher Edu Agency Priority # | Cation Operation al Criteria x OC | CSU Fort Criticalit y Index x CI | Collins Projec Score = PS |
|-----------------|-------------------|--|---------------------------|--------------------------------------|--|---|------------------------------------|
| 4) Project # | 4) Agency ID # | 5) PROJECT TITLE and PHASE | 6) PROJECT ESTIMATE \$ | 7) Nos 1 to 5 | 8) Nos 1 to 3 | 9) | 10) |
| | 1-2017 | Replace Mechanical System, BRB Phase1_of1_ | General Street | MAN NE HALL TALLY I | Section of the sectio | Carrier, | |
| | | Total Project Cost: Prior Appropriation: Current Year Request: Project Balance: | \$ 1,939,959 | 1 | 1 | | |
| | 2-2017 | Admin Bldg Sprinkler & Em Light Phase _1of1_ | | | | | |
| | | Total Project Cost: Prior Appropriation: Current Year Request: Project Balance: | \$ 431,481 | 1 | 1 | | |
| | 3-2017 | Engineering Auditorium Roof Repl Phase _1of _1 | | | | | |
| | | Total Project Cost: Prior Appropriation: Current Year Request : Project Balance: | \$ 145,896 | 1 | 1 | | |
| | 4-2017 | Glover Building Roof Replacement Phase _1of _1 | | | | | |
| | | Total Project Cost Prior Appropriation Current Year Request Project Balance | \$ 827,626 | 1 | 2 | | |
| | 5-2017 | Replace/Repair Failing Walls, Pickett Ctr Phase _1of _2 | | | | | |
| | | Total Project Cost Prior Appropriation Current Year Request Project Balance | : \$ 999,448 | 1 | 2 | | |
| | 6-2017 | Replace Electric Service, Foothills Phase _1of _1 | | | | | |
| | | Total Project Cost Prior Appropriation Current Year Request Project Balance | : \$ 991,928 | 1 | 2 | | |
| | 7-2017 | Replace Obsolete Bldg Automation Sys Phase _1of _1 | | | | | |
| | | Total Project Cost Prior Appropriation Current Year Request | : | 1 | 2 | | |
| | | | : \$ 1,142,792 | | | | |



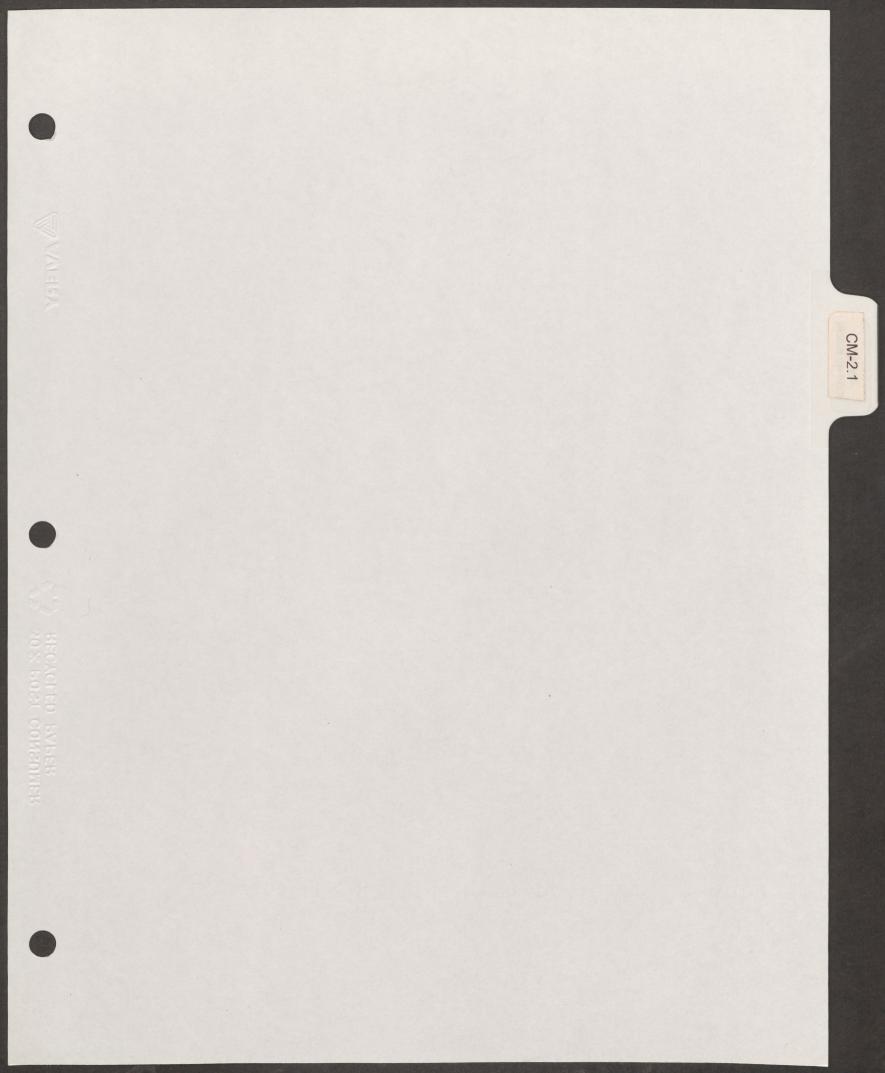
OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2016/2017 STATE BUILDINGS PROGRAMS

| 8-2017 | Upgrade HVAC System, Moby Arena Phase _1of _2 | | | | | |
|---------|--|----------------------------|-----|---|---|--|
| | Total Project Cost: | \$ 2,187,493 | 1 | 2 | | |
| | Prior Appropriation: | | | | | |
| | Current Year Request: | \$ 1,080,606 | | | | |
| | Project Balance: | \$ 1,106,887 | | | | |
| 9-2017 | Engineering Bridge Repair/Removal Phase _1of _1 | | | | | |
| | Total Project Cost: Prior Appropriation: | \$ 363,383 | 1 | 2 | | |
| | Current Year Request: Project Balance: | \$ 363,383 \$ - | | | | |
| 10-2017 | Industrial Sciences Bldg Ext Repair Phase _1of 1 | | | | | |
| | Total Project Cost: Prior Appropriation: | \$ 1,992,564 \$- | 1 | 2 | - | |
| | Current Year Request: Project Balance: | \$ 1,992,564 \$- | | | | |
| 11-2017 | Replace Deteriorated Storm Water Phase _1of1_ | | | | | |
| | Total Project Cost: Prior Appropriation: | \$ 1,093,574 | 1 | 2 | | |
| | Current Year Request: Project Balance: | \$ 1,093,574 \$ - | | | | |
| 12-2017 | Chrisitansen Track Resurface Phase1_of _2 | | | | | |
| | Total Project Cost: Prior Appropriation: | \$ 2,359,991 | 1 . | 2 | | |
| | Current Year Request: Project Balance: ank A: Current-Year CM Total \$ | \$ 1,797,143 \$ 562,848 | | | | |



| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
|------------|---------|----------|---|------------------------|------------|--|-------------|--------------|-----------------------|--------------------|
| Agency | Project | CM | Project Title - Number of Phases | Total | Prior | FY 17/18 | FY 18/19 | FY 19/20 | FY 20/21 Budget | FY 21/22 Budget |
| riority #. | M# | Category | | Project | | Budget Request | Budget | Budget | Request | Request |
| • - | | | Dealers and of March animal Outstand | Cost | tion | | Request | Request | Request | Request |
| | | 111/10 | Replacement of Mechanical System, | \$1,939,959 | \$0 | \$1,939,959 | | | | |
| | | HVAC | Bioenvironmental Research Building, 1 Phase Admin Building Sprinkler and Emergency | \$1,939,959 | φU | \$1,555,555 | | | | |
| 1 | | | | \$431,481 | | \$431,481 | | | | |
| | | FS | Lighting | | | \$145,896 | | | | |
| 1 | | RF | Engineering Auditorium Roof Replacement, 1 ph | \$145,896 \$827,626 | | | | | | |
| 1 | | RF | Glover Building Roof Replacement, 1 Phase | \$027,020 | | \$027,020 | | | | |
| 1 | | ST | Replace/Repair Failing Walls, Pickett Center, 2 Phases | \$1,954,714 | \$0 | \$999,448 | \$955,266 | | | |
| 1 | | | Replace Electric Service, Foothills Campus, XCEL Substation to West Meter Point, 1 Phase | \$991,928 | \$0 | \$991,928 | | | | |
| 4 | | 1 | Replace Obsolete Building Automation Control | \$551,525 | | \$001,020 | | | | |
| 1 | | HVAC | System, 1 Phase | \$1,142,792 | \$0 | \$1,142,792 | | | | |
| 1 | | HVAC | Upgrade HVAC System, Moby Arena, 2 Phases | \$2,187,493 | | | \$1,106,887 | | | |
| 1 | | ST | Engineering Bridge Repair/Removal | \$363,383 | | | + .,,. | | | |
| | | ST | Industrial Sciences Building Exterior Repair | \$1,992,564 | | | | | | |
| 1 | | 51 | Replace Deteriorated Storm Water Line, Main | \$1,002,004 | | 0.,002,001 | | | | |
| | | | Campus, 1 Phase | \$1,093,574 | \$0 | \$1,093,574 | | | | |
| 4 | | MISC | Chrisitansen Track Resurface, 2 Phases | \$2,359,991 | | | \$562,848 | | | |
| 1 | | MICO | Replace Roof, A & B Wings, Engineering | ,,, | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , | | | |
| | | RF | Building, 1 Phase | \$590,000 | \$0 | | \$590,000 | | | |
| | | | Moby B&C Wings Primary HVAC Replacement, | | | | | | | |
| | | | 1 Phase | \$2,000,000 | \$0 |) | \$2,000,000 | | | |
| | | - | Replace Deteriorated Exterior Lighting, Main Campus, 4 Phases | \$2,000,000 | \$0 | | \$500,000 | \$500.000 | \$500,000 | \$500,00 |
| | | EL | Replace Primary HVAC System, Fum McGraw, 1 | | ψυ | / | \$000,000 | 4000,000 | | + |
| | 14.39 | | Phase | \$2,000,000 | \$0 | | \$2,000,000 | | | |
| | | | Upgrade Sanitary Sewer Lines, 3 Phases | \$2,000,000 | | | \$750,000 | \$750,000 | \$500,000 | |
| | | | Upgrade Campus Door Locking System, 4 Phases | \$4,000,000 | | | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,00 |
| | | | Replace Electric Service, Foothills Campus, | \$4,000,000 | φι | | \$1,000,000 | \$1,000,000 | \$1,000,000 | •.,•••,•• |
| | | | West Meter Point to Engineering Research | | | | | | | |
| | | | Center, 1 Phase | \$1,125,276 | \$ \$0 | | | \$1,125,276 | | |
| | | HVAC | Replace Air Handlers, Chemistry, 2 Phases | \$2,000,000 | | | | \$1,000,000 | \$1,000,000 | |
| | | HVAC | Repair/Replace Roofs, Various Buildings, 3 | φ2,000,000 | φ. | | | \$1,000,000 | ¢ 1,000,000 | |
| | | RF | Phases | \$3,000,000 | \$0 | | | \$1,000,000 | \$1,000,000 | \$1,000,00 |
| - | | KF | Replace Deteriorated Mechanical Systems, | \$0,000,000 | | | | \$1,000,000 | + ., | |
| | | HVAC | Anatomy Zoology, 3 Phases | \$3,500,000 | \$0 | | | \$1,500,000 | \$1,000,000 | \$1,000,00 |
| | | INAC | Replace Deteriorated Mechanical Systems, | \$0,000,000 | | | | +., | + | |
| | | HVAC | Microbiology, 3 Phases | \$3,500,000 | \$0 | | | \$1,500,000 | \$1,000,000 | \$1,000,00 |
| | | 110/10 | Replace Deteriorated Mechanical Systems, | | | | | | and the second second | |
| | | HVAC | Physiology, 3 Phases | \$3,500,000 | \$(| 0 | | \$1,500,000 | \$1,000,000 | \$1,000,00 |
| | | | Replace Deteriorated Mechanical Systems, | | | | | | | |
| | | HVAC | Painter, 3 Phases | \$4,500,000 | \$(| 0 | | \$1,500,000 | \$1,500,000 | \$1,500,00 |
| | | | Replace Deteriorated Mechanical Systems, | | | | | | | |
| | | HVAC | Pathology, 2 Phases | \$2,000,000 |) \$(| 0 | | | \$1,000,000 | \$1,000,00 |
| | | | Repairs to the Steam and Condensate Utility | | | | | | | |
| | | 1 | Systems, 2 Phases | \$3,000,000 |) \$(| 0 | | | \$1,500,000 | \$1,500,00 |
| | | | Replace Deteriorated Mechanical Systems, | | | | | | | |
| | | HVAC | Engineering Research Center, 2 Phases | \$3,000,000 |) \$ | 0 | | | \$1,500,000 | \$1,500,00 |
| - | | | Repair/Replace Deteriorated Roads and | | | | | | | |
| | | 1 | Sidewalks, Main Campus, 1 Phase | \$1,575,600 | 5 \$ | 0 | | | | \$1,575,6 |
| | | | | | | | | | | |
| | | | (12) To | tals for each | Fiscal Yea | r \$12,806,400 | \$9,465,001 | \$11,375,276 | \$12,500,000 | \$12,575,6 |
| A | | | | | | | | | | |
| | | | (13) Grand To | | | n \$58,722,277 | | | | |

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STATE OF COLORADO OFFICE OF THE STATE ARCHITECT ASSET MANAGEMENT MAINTENANCE STRATEGY FY 2017/2018 STATE BUILDINGS PROGRAM

| 1) Agency / Institution: | Colorado State University Fort Collins |
|-----------------------------|--|
| 2) Prepared by: | Shelly Carroll |
| 3) Date: | 7/15/2016 |

#1. Please describe your agency's overall strategy for maintaining and upgrading the condition of your general funded buildings and related infrastructure as supported by your current Facilities Audit Process and indicated in the Five Year Controlled Maintenance Plan. (For example is the intent to upgrade as funding allows, by criticality, by building, by system, by infrastructure, by complex or by a combination of these components). Please provide examples of project requests taken directly from your current Controlled Maintenance Five Year Plan. *CSU has a database of prioritized maintenance projects that is routinely updated by the maintenance department. In addition we had a building audit inspection system in place through the 2010 cycle (ended due to budget cuts), which fed into that database. Maintenance needs are generally addressed by criticality, as funding allows.*

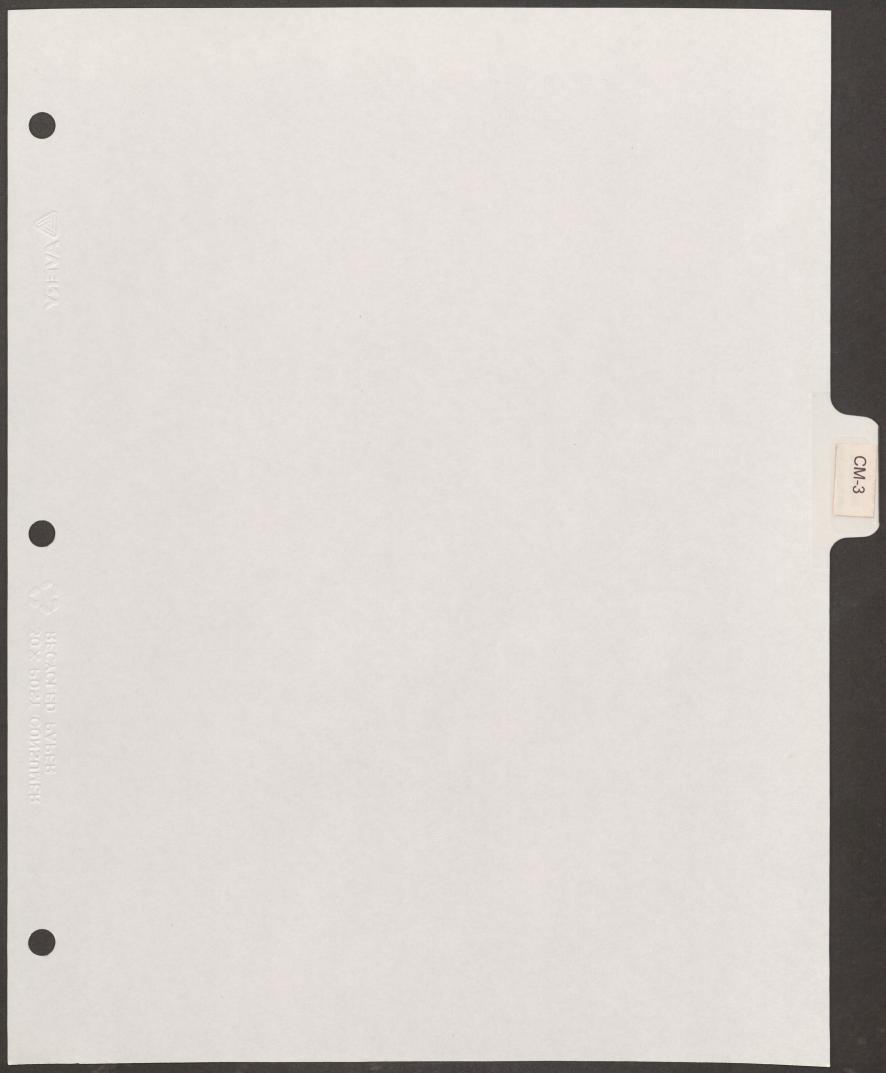
#2. Describe how your agency coordinates the Five Year Controlled Maintenance Plan with routine and preventative maintenance programs and, the Capital Construction Five Year Program Plan including Capital Renewal project requests. *CSU's routine maintenance plan tackles small maintenance items and works to extend the life of existing systems. Mechanical filters, belts and oil are changed on a regular basis. Electrical switches are tested every 6 months. As buildings and infrastructure age the maintenance needs become too extensive to be handled within the operating budget. At that point a determination is made to pursue a controlled maintenance request, a capital renewal request or a capital construction project to redevelop the building. Coordination of these requests is through the University Architect.*

#3. Identify the source(s) and total dollar amount of controlled maintenance (as defined in 24-30-1301 (4) (a-c)), funded internally by your agency/institution for general funded and academic buildings and related infrastructure in fiscal year FY15/16 and, describe how those were coordinated with your Five Year Controlled Maintenance Plan. (Note that this does not refer to line-item operating budgets for routine maintenance and utilities, but availability of other internal funds and funding sources such as, student fees, revenues, gifts, grants, bond financing, federal, state or local funds, etc.) *The University has committed* \$1.7M annually for maintenance and infrastructure deficiencies. Student fees cannot be used for maintenance items, per their bylaws. We leverage university funds to generate utility rebates on energy conservation projects. These are the only other funding sources for maintenance.

#4. If your agency has auxiliary funded buildings or buildings funded through other sources is there a similar Facilities Audit Process and Five Year Deferred Maintenance Plan to address building and infrastructure deficiencies and describe how these are identified and coordinated with your Five Year Controlled Maintenance Plan? Auxiliaries have an audit program that identifies deficiencies. Auxiliaries are responsible for their own maintenance and must keep their buildings equivalent to the University Standard Facility Conditions Index (range 68-78). Auxiliary building maintenance projects are coordinated at the Administrative, Vice President level. Facilities management utility engineers are responsible for all utilities.



SBP CM-2.1 Rev. 5/16





Page 1 of 5

| (| Controlled M | aintenance | | Capital Re | newal Buil | Iding/I | nfrastruc | cture Requ | uest |
|---|--|--|--|---|---|----------------------------------|--|--------------------------------------|--|
| | Request | | | HPCP requ | ired in Ca | pital F | Renewal | Request (| Y/N) |
| I) Age | ency / Co | lorado State Ui | niversity I | Fort Collins | | - | | | |
| | titution | | | | | | de la competition de la competitiva de la competition de la compet | | |
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| | ector nature | | | | | Date | | | |
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| | | | | | | | | | |
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| 1) Fac | cility Type | _ Site (Utilities | and a stand of the second | | | | | | |
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| | | Risk Mgmt. | | J# | | | | | |
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| 3) Fac | cility Area/Age | The second s | Carlos Contractor | ASF | 23,435 | | _ Date Bu | uilt <u>2000</u> | |
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| 3) Fac 4) Fac 5) Fac 6) Fac 6) Fac (De (De 7) Fac 24/ 8) Fac 9) Mac a) b) c) d) | cility Area/Age cility Functiona cility Functiona cility Construction cility Physical C tual FCI = 8 escribe) Desk a cility - Intensity (30/12 cility - Current aster Plan Statu Facility 'n Master F Major fa next five may hav Facility Audit Su) Facility Audit | I Use/Occupand on (Type) Condition and F 30 T udit in 2015, las of Use, Time(s Replacement V us - Check one useful' life is les useful' life is les useful' life is mo Plan is obsolete cility changes, r years, (If yes, f re an impact on | acility Co acility Co argeted st physica st physica at | L3 Research andition Index FCI = 100 al audit done ration: (Hour 19,018,405 of the followi /e (5) years. ive (5) years. ive (5) years the Approved ns, or progravely xplain below request.) d submitted t | Laboratory x (FCI) Num in 2002. s/Day, Days s/Day, Days ng: (by OSPB/ am revisions if these faci | Date Date S/Month CDHE) | e of Last A | Audit 2015 Year) anticipated i | n the |

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.

Project Title

Completion date or status

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

The Bioenvironmental Research Building is a BSL3 laboratory on Foothills campus that was designed in the late 90s and occupied nearly 20 years ago. There are three problems with the existing building. HVAC design for BSL3 labs has evolved away from a common HEPA filtered supply/exhaust system serving all the research suites (as was done in this building), because it is difficult to maintain the required cascade of negative pressure from one suite to the next. The system has functioned well, but is nearing the end of its useful life. In addition, the existing controls are two generations behind the current standard. Johnson Controls stopped supporting the existing products in 2012 and no longer carries replacement parts or software. Also, the controls are a security risk for hacking at this highly sensitive facility. This request seeks to address all current deficiencies to reduce the risk for building failure.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$1,939,959

 Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The BioEnvironmental Research Building (BRB) contains the biosafety level 3 (BSL-3) Mycobacterial Research Laboratories (MRL). The MRL works extensively with multiple drug resistant (MDR) and extremely drug resistant (XDR) strains of tuberculosis, leprosy and related mycobacterial research programs. The MRL researchers have extensive experience in working with these pathogenic organisms and have earned international recognition for their advancements in drug discovery, diagnostics, vaccine development, pathogen physiology and disease pathogenesis. In addition, the MRL is unique as one of the few centers in the world where the efficacy of new anti-mycobacterial drugs, better diagnostics and vaccines can be tested using animal models. BSL3 labs operate under strict requirements for negative air pressure and HEPA filtration of exhaust air due to the hazardous nature of the research. Loss of use of the BSL3 labs and loss of in-progress research would be the result if negative pressure could not be maintained in the research suites. It is possible (though unlikely due to system failsafes) that a release of hazardous materials could occur, affecting CSU researchers and surrounding neighborhoods.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This project will bring the controls and HVAC system up to current BSL3 standards. By making the necessary HVAC and BAS upgrades, overall general biosafety will be ensured and the risk of a building failure will be greatly reduced. Thus, with the requested modifications, the sustainability of the globally impactful mycobacterial research program housed within the BRB may successfully continue.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

| 1) Approved By Mike Rush | 2) Phase? | 1 of 1 | |
|--------------------------------|-----------------------------------|--------|--|
| 3) Method and Date of Estimate | Remodel and Construction Services | | |

| 1) | Drefeesional | Sonicos |
|----|--------------|----------|
| 4) | Professional | Services |

| Site Surveys, Investigations, and Reports: | |
|--|-----------|
| Arch/Eng/Basic Services: | 244,361 |
| Code Review/Inspection: | 7,500 |
| Other (Explain): PM fee & commissioning | 142,000 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$393,861 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|--|--------------------------|-----------------|---------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| b) Site Improvements: | | | × |
| Structure/Systems/Components | | | |
| Air Handling units | 7 ea | 76,555 | 535,883 |
| Backdraft and manual dampers | 9 ea | 2,182 | 19,635 |
| Controls | sf | 7.32 | 178,500 |
| Phoenix valves and pressure monitors | 4 ea | 1,721 | 6,885 |
| Supply air ductwork | sf | .70 | 17,000 |
| Exhaust fans and humidifiers | sf | 2.30 | 56,100 |
| Piping, heat exchangers, heat recovery system | sf | 7.29 | 177,650 |
| Ductwork modifications | sf | 1.39 | 34,000 |
| Disconnects | 7 ea | 4,469 | 31,280 |
| Electrical connections | sf | 1.14 | 19,805 |
| Fire alarm and smoke detection | sf | .66 | 16,150 |
| Anteroom construction pods 1 & 2 (191 sf) | sf | 82.33 | 15,725 |
| Other(explain): | | 1 1 - AL 1 - 10 | |
| Demo existing | sf | 1.58 | 38,471 |
| Misc wall repairs throughout | sf | .7 | 17,000 |
| Contractor's General Conditions: | | | 109,561 |
| Contractor's Overhead & Profit: | | | 95,866 |
| Inflation Percentage/dollar amount: (required for each out year phase) 3% | | | |
| Total of Construction Improvement Costs: | | C WARLEY MALEN | \$1,369,511 |

5a) Total square feet/lineal feet of Construction Improvement area:24,378 sf5b) Overall cost per square foot/lineal foot of construction Improvement:\$56.18/sf

\$

6) Miscellaneous (explain)

services (4), construction improvements(5), miscellaneous costs(6), and project

| Contingency (10% CM) (Percentage of total of professional services, construction improvements, and miscellaneous costs.) | \$176,587 |
|---|-------------|
| 8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional | \$1,939,959 |

Note: Agency formatted cost estimates may accompany this page.

E. PROPOSED PHASING

PRIOR PHASING¹

contingency(7)

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 1 | \$1,939,959 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Outstatel) | ¢ |

(Subtotal)

TOTAL PROJECT DOLLAR AMOUNT

\$1,939,959

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE

FROM

\$

TO

| 1. Pre-Design (Insert Dates) | | |
|---------------------------------------|-----------|------------|
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | May 2018 | Sept 2019 |
| 4. Project Close-out/Final Completion | Oct 2019 | Oct 2019 |

| (| Controlled Maintenance | Capital Renew | al Building/Infrastructure Request |
|--|---|--|--|
| | Request | | in Capital Renewal Request (Y/N) |
| | | | |
| | gency / Colorado State Ur stitution | iversity Fort Collins | |
| 1 | xecutive | | |
| | irector ignature | | Date |
| | gency ID No. | | Project M # |
| | gency Priority # 1 | | |
| - | roject Title Industrial Sciences | s Lab Building Exterior Up | ograde |
| | | | |
| FA | CILITY PROFILE | | |
|) Fa | | underground) | |
| | | ovements above ground) | eienees Lob |
| | X or Building N | | ciences Lab |
| | Risk Mgmt. E | | |
| (A LAND | acility Location <u>Main Campus</u> acility Area/Age GSF 20,24 | | 0.032 Date Built 1925 |
| 5) Fa | acility Area/Age GSF 20,24 | 0 701 20 | Date Dulit 1525 |
| | | NAME AND ADDRESS OF AD | |
| 4) Fa | acility Functional Use/Occupanc | NAME AND ADDRESS OF AD | |
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| 4) Fa 5) Fa 6) Fa Ac | acility Functional Use/Occupanc acility Construction (Type) acility Physical Condition and Fa | y Classroom, laborator cility Condition Index (FC argeted FCI = 100 | I) Number |
| 4) Fa 5) Fa 5) Fa (D | acility Functional Use/Occupance acility Construction (Type) acility Physical Condition and Fa ctual FCI = 63 Ta Describe) Desk audit, last physica | y <u>Classroom, laborator</u> acility Condition Index (FC argeted FCI = 100 al audit was in 2008 | ry, office I) Number Date of Last Audit 2015 |
| Fa Fa Fa Ac (D | acility Functional Use/Occupanc acility Construction (Type) acility Physical Condition and Fa ctual FCI = 63 Ta bescribe) Desk audit, last physica | y <u>Classroom, laborator</u> acility Condition Index (FC argeted FCI = 100 al audit was in 2008 | ry, office I) Number Date of Last Audit 2015 |
| Action Action (D (D (24) | acility Functional Use/Occupance acility Construction (Type) acility Physical Condition and Fa ctual FCI = 63 Ta Describe) Desk audit, last physica | y <u>Classroom, laborator</u> acility Condition Index (FC argeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day | ry, office I) Number Date of Last Audit 2015 |
| 4) Fa 5) Fa 60 60 7) Fa 24 24 3) Fa | acility Functional Use/Occupance acility Construction (Type) acility Physical Condition and Fa ctual FCI = 63 Ta bescribe) Desk audit, last physica acility - Intensity of Use, Time(s) 4/30/12 acility - Current Replacement Va | y <u>Classroom, laborator</u> acility Condition Index (FC argeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day | ry, office I) Number Date of Last Audit 2015 |
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| Action Action Failed Faile | acility Functional Use/Occupance acility Construction (Type) acility Physical Condition and Fa ctual FCI = 63 Ta bescribe) Desk audit, last physica acility - Intensity of Use, Time(s) 4/30/12 acility - Current Replacement Va laster Plan Status - Check one of Facility 'useful' life is less X Facility 'useful' life is mor Master Plan is obsolete; Maior facility changes, re | y <u>Classroom, laborator</u> acility Condition Index (FC argeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day alue \$ <u>6,277,475</u> or more of the following: a than five (5) years. te than five (5) years. Last Date Approved (by C | ry, office I) Number Date of Last Audit 2015 y, Days/Month, Months/Year) OSPB/CDHE) visions are ongoing or anticipated in the |
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| 4) Fa 5) Fa 6) Fa 6) Fa 7) Fa 24 3) Fa 24 4 10) Fa | acility Functional Use/Occupance acility Construction (Type) acility Physical Condition and Fa ctual FCI = 63 Ta bescribe) Desk audit, last physica acility - Intensity of Use, Time(s) 4/30/12 acility - Current Replacement Va laster Plan Status - Check one of Facility 'useful' life is less X Facility 'useful' life is less X Facility 'useful' life is mor Master Plan is obsolete; Major facility changes, re next five years, (If yes, p may have an impact on t | y <u>Classroom, laborator</u> acility Condition Index (FC argeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day alue \$ <u>6,277,475</u> or more of the following: a than five (5) years. tast Date Approved (by C enovations, or program re lease explain below if the his CM request.) ded and submitted to SBI | ry, office Date of Last Audit 2015 Date of Last Audit 2015 y, Days/Month, Months/Year) OSPB/CDHE) visions are ongoing or anticipated in the se facility renovations or program revisio |

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| | Completion |
|---------------|----------------|
| Project Title | date or status |
| | Project Title |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Exterior walls of building are cracked and showing signs of distress. Original windows are in need of replacement. In 2013 CSU installed helical piers to stabilize the foundation and prevent further disruption. Project includes repair of sagging structural beam, existing brick walls and window sills, replace windows, replace overhead door and roof replacement.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$1,992,564

 Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The Construction Management Department is interested in working with industry partners to revitalize the interior of the Industrial Sciences Building. However, the exterior improvements must be done in advance. This is a chance for University and State partnership to revitalize an existing historic building.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

The FCI will be greatly improved with the exterior and foundation repairs and further improved with eventual industry partnership on the interior upgrades.

D. <u>DETAILED COST ESTIMATE</u> (detail by phase, one page per phase, include all phases)

| 1) Approved By Mike Rush | 2) Phase? | 1 of 1 | |
|--------------------------------|--------------------------------------|--------|--|
| 3) Method and Date of Estimate | Hensel Phelps and Mortenson estimate | | |

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|--|-----------|
| Arch/Eng/Basic Services: | 67,844 |
| Code Review/Inspection: | 8,000 |
| Other (Explain): PM fee | 57,138 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$132,982 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|--|--------------------------|---------------|---------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| b) Site Improvements: | | | |
| Structure/Systems/Components | | | |
| Foundation and roof beams | 20,246 sf | \$1.24/sf | 25,030 |
| Exterior walls, doors, windows | 20,246 sf | \$48.29/sf | 977,734 , |
| Roof replacement | 20,246 sf | \$22.56/sf | 456,750 |
| Other(explain): | | | |
| Contractor's General Conditions: | | 1.1.15 No. 19 | 116,761 |
| Contractor's Overhead & Profit: | | | 102,166 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | | | \$1,678,440 |
| 5a) Total square feet/lineal feet of Construction Im 5b) Overall cost per square foot/lineal foot of cons | | \$ | |

6) Miscellaneous (explain)

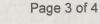
| | and the second | |
|-------------------------------|----------------|----|
| Total of Miscellaneous Costs: | | \$ |

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 181,142 |
|--|---------|
| improvements, and miscellaneous costs.) | |

| o) rotal cost of the respect (children protocol and proto | \$1,992,564 |
|--|-------------|
| services (4), construction improvements(5), miscellaneous costs(6), and project | |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.





E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |
| | S. ARE STATE | (Subtotal) | \$ |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 1 | 1,992,564 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| The second second | FY 2021/2022 | | |
| | | (Subtotal) | \$ |

TOTAL PROJECT DOLLAR AMOUNT

\$1,992,564

(All Prior, Future Phases subtotals and Current Dollar amount)

- ¹ List all previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.
- ² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|------------|-----------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | _July 2017 | Feb 2018 |
| 3. Construction (Insert Dates) | March 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |

| Controlle Request | ed Maintenance | Capital Renewal | | | |
|--|---|---|---|---|---|
| | | · | | | |
| 1) Agency / Institution | Colorado State | University Fort Collins | | | |
| 2) Executive | | | | | |
| Director Signature | -// | Latterly | Date | 7-22 | -16 |
| 3) Agency ID No |). | P | Project | t M # | |
| 4) Agency Prior | ty # 1 | | | | |
| 5) Project Title | Bioenvironment | al Research Building Mechan | ical Upgrade |) | |
| . FACILITY PF | OFILE | | | | |
| 1) Facility Type | Contraction of the second second | es underground) | | | a and and |
| ., | | provements above ground) | | | |
| | X or Building | Name (s) Bioenvironme | ental Researc | ch Building | a series |
| | Risk Mgm | t. Bldg(s) ID# | | | |
| | ion Foothills Ca | ampus | | Second Second | |
| 2) Facility Locat | | | | Date Built | 2000 |
| | Age GSF 24, | 378 ASF <u>23,4</u> | .35 | - Date Dant | |
| 3) Facility Area/ | | N. Astronomical and the second s | | _ Date Dunt | |
| Facility Area/. Facility Funct | ional Use/Occupa | 378 ASF 23,4 incy BSL3 Research Labor | | | |
| Facility Area/. Facility Funct Facility Const | ional Use/Occupa ruction (Type) | ncy BSL3 Research Labor | atory | | |
| Facility Area/. Facility Funct Facility Const Facility Physi | ional Use/Occupa ruction (Type) cal Condition and | Research Labor Facility Condition Index (FCI) | atory Number | | |
| Facility Area/. Facility Funct Facility Const Facility Const Facility Physi Actual FCI = | ional Use/Occupa ruction (Type) _ cal Condition and 80 | ncy BSL3 Research Labor Facility Condition Index (FCI) Targeted FCI = 100 | atory Number Date | e of Last Audit | |
| Facility Area/. Facility Funct Facility Const Facility Const Facility Physi Actual FCI = | ional Use/Occupa ruction (Type) _ cal Condition and 80 | Research Labor Facility Condition Index (FCI) | atory Number Date | | |
| Facility Area/. Facility Funct Facility Const Facility Const Facility Physi Actual FCI = | ional Use/Occupa ruction (Type) _ cal Condition and 80 | ncy BSL3 Research Labor Facility Condition Index (FCI) Targeted FCI = 100 | atory Number Date | | |
| Facility Area/. Facility Funct Facility Const Facility Const Facility Physi Actual FCI = | ional Use/Occupa ruction (Type) _ cal Condition and 80 | ncy BSL3 Research Labor Facility Condition Index (FCI) Targeted FCI = 100 | atory Number Date | | |
| Facility Area/. Facility Funct Facility Const Facility Const Facility Physi Actual FCI = (Describe) Describe | ional Use/Occupa ruction (Type) _ cal Condition and 80 esk audit in 2015, | Facility Condition Index (FCI) Targeted FCI = 100 last physical audit done in 200 | Number Date | e of Last Audit | 2015 |
| 3) Facility Area/. 4) Facility Funct 5) Facility Const 6) Facility Physi Actual FCI = (Describe) Describe) Describe 7) Facility - Intescription | ional Use/Occupa ruction (Type) _ cal Condition and 80 esk audit in 2015, | ncy BSL3 Research Labor Facility Condition Index (FCI) Targeted FCI = 100 | Number Date | e of Last Audit | 2015 |
| 3) Facility Area/. 4) Facility Funct 5) Facility Const 6) Facility Chysi Actual FCI = (Describe) Describe) Describe 7) Facility - Inte 24/30/12 | ional Use/Occupa ruction (Type) _ cal Condition and 80 esk audit in 2015, | Example 2014 Facility Condition Index (FCI) Targeted FCI = 100 Targeted FCI = 100 | Number Date | e of Last Audit | 2015 |
| 3) Facility Area/. 4) Facility Funct 5) Facility Consi 6) Facility Physi Actual FCI = (Describe) Describe) Describe 7) Facility - Inte 24/30/12 8) Facility - Cur | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time | Example 2014 Facility Condition Index (FCI) Targeted FCI = 100 Targeted FCI = 100 | Number Date | e of Last Audit | 2015 |
| 3) Facility Area/. 4) Facility Funct 5) Facility Const 6) Facility Const 6) Facility Physi Actual FCI = (Describe) Describe) Describe 7) Facility - Inte 24/30/12 8) Facility - Cur 9) Master Plan | ional Use/Occupa ruction (Type) _ cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on | Incy BSL3 Research Labor Facility Condition Index (FCI) Targeted FCI = 100 last physical audit done in 200 e(s) of Operation: (Hours/Day, Value \$ 19,018,405 | Number Date | e of Last Audit | 2015 |
| 3) Facility Area/. 4) Facility Funct 5) Facility Consi 6) Facility Consi 6) Facility Physi Actual FCI = (Describe) Describe) Describe 7) Facility - Inte 24/30/12 8) Facility - Cur 9) Master Plan a) Fac | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on lity 'useful' life is l | Example 2014 Facility Condition Index (FCI) Targeted FCI = 100 last physical audit done in 200 e(s) of Operation: (Hours/Day, Value \$ 19,018,405 te or more of the following: | Number Date | e of Last Audit | 2015 |
| 3) Facility Area/. 4) Facility Funct 5) Facility Const 6) Facility Const 6) Facility Physi Actual FCI = (Describe) Describe) Describe 7) Facility - Inte 24/30/12 8) Facility - Cur 9) Master Plan a) Fac b) X Fac | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on lity 'useful' life is h | EXAMPLE A Constraint of the following: Example Condition Index (FCI) Targeted FCI = 100 Targeted FCI = | atory Number Date | e of Last Audit | 2015 |
| 3) Facility Area/. 4) Facility Funct 5) Facility Const 6) Facility Const 6) Facility Physi Actual FCI = (Describe) Describe) Describe) Describe 7) Facility - Inte 24/30/12 8) Facility - Cur 9) Master Plan a) Fac b) X Fac c) Master d) Mater | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on lity 'useful' life is h lity 'useful' life is n ter Plan is obsole or facility changes | EXAMPLE Approved (by OS, renovations, or program revi | atory Number Date 02. Days/Month Days/Month | e of Last Audit , Months/Year | r) ipated in the |
| 3) Facility Area/. 4) Facility Funct 5) Facility Consi 6) Facility Physi Actual FCI = (Describe) Describe) Describe) Describe) Describe 7) Facility - Internation 24/30/12 8) Facility - Currenation 9) Master Plan a) Facility - Currenation 9) Master Plan a) Fac b) X Fac c) Master Plan a) Fac b) X Fac c) Master Plan a) Fac b) X Fac c) Master Plan c) Master Plan a) Fac b) X Fac c) Master Plan c) Master Plan c) Master Plan c) Master Plan d) Master Plan | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on lity 'useful' life is h lity 'useful' life is h ter Plan is obsole or facility changes t five years, (If yes | EXAMPLE Approved (by OS | atory Number Date 02. Days/Month Days/Month | e of Last Audit , Months/Year | r) ipated in the |
| 3) Facility Area/. 4) Facility Funct 5) Facility Const 6) Facility Physi Actual FCI = (Describe) Describe) Describe) Describe) Describe 7) Facility - Internation 24/30/12 8) Facility - Curr 9) Master Plan a) Fac b) X Fac c) Master Plan d) Master Plan c) Master Plan d) Master Plan | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on lity 'useful' life is h ter Plan is obsole or facility changes t five years, (If yes have an impact of | EXAMPLE APPROVED AND AND AND AND AND AND AND AND AND AN | atory Number Date 02. Days/Month Days/Month | e of Last Audit , Months/Year | r) ipated in the |
| 3) Facility Area/. 4) Facility Funct 5) Facility Const 6) Facility Const 6) Facility Physi Actual FCI = (Describe) Describe) Describe) Describe) Describe 7) Facility - Inte 24/30/12 8) Facility - Cur 9) Master Plan a) Fac b) X Fac c) Master Plan c) Master Plan a) Fac b) X Fac c) Master Plan a) Fac b) X Fac c) Master Plan c) Master Plan a) Fac b) X Fac c) Master Plan c) Master Plan c) Master Plan d) Facility Automatic Plan c) Master Plan d) Major nex may 10) Facility Automatic Plan | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on lity 'useful' life is n ter Plan is obsole or facility changes t five years, (If yes have an impact of lit Survey: | Example and the second | atory Number Date 02. Days/Month SPB/CDHE) sions are one e facility rend | e of Last Audit , Months/Year | r) ipated in the |
| 3) Facility Area/. 4) Facility Funct 5) Facility Consi 6) Facility Physi Actual FCI = (Describe) Describe) Descr | ional Use/Occupa ruction (Type) cal Condition and 80 esk audit in 2015, nsity of Use, Time rent Replacement Status - Check on lity 'useful' life is n ter Plan is obsole or facility changes t five years, (If yes have an impact of lit Survey: | Incy BSL3 Research Labor Facility Condition Index (FCI) Targeted FCI = 100 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 Iast physical audit done in 200 <td>atory Number Date 02. Days/Month SPB/CDHE) sions are one e facility rend</td> <td>e of Last Audit , Months/Year going or antic ovations or pro</td> <td>2015 r) ipated in the ogram revisior</td> | atory Number Date 02. Days/Month SPB/CDHE) sions are one e facility rend | e of Last Audit , Months/Year going or antic ovations or pro | 2015 r) ipated in the ogram revisior |

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| | | Completion |
|-------------|---------------|----------------|
| Project No. | Project Title | date or status |
| | | |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

The Bioenvironmental Research Building is a BSL3 laboratory on Foothills campus that was designed in the late 90s and occupied nearly 20 years ago. There are three problems with the existing building. HVAC design for BSL3 labs has evolved away from a common HEPA filtered supply/exhaust system serving all the research suites (as was done in this building), because it is difficult to maintain the required cascade of negative pressure from one suite to the next. The system has functioned well, but is nearing the end of its useful life. In addition, the existing controls are two generations behind the current standard. Johnson Controls stopped supporting the existing products in 2012 and no longer carries replacement parts or software. Also, the controls are a security risk for hacking at this highly sensitive facility. This request seeks to address all current deficiencies to reduce the risk for building failure.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$1,939,959

 Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The BioEnvironmental Research Building (BRB) contains the biosafety level 3 (BSL-3) Mycobacterial Research Laboratories (MRL). The MRL works extensively with multiple drug resistant (MDR) and extremely drug resistant (XDR) strains of tuberculosis, leprosy and related mycobacterial research programs. The MRL researchers have extensive experience in working with these pathogenic organisms and have earned international recognition for their advancements in drug discovery, diagnostics, vaccine development, pathogen physiology and disease pathogenesis. In addition, the MRL is unique as one of the few centers in the world where the efficacy of new anti-mycobacterial drugs, better diagnostics and vaccines can be tested using animal models. BSL3 labs operate under strict requirements for negative air pressure and HEPA filtration of exhaust air due to the hazardous nature of the research. Loss of use of the BSL3 labs and loss of in-progress research would be the result if negative pressure could not be maintained in the research suites. It is possible (though unlikely due to system failsafes) that a release of hazardous materials could occur, affecting CSU researchers and surrounding neighborhoods.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This project will bring the controls and HVAC system up to current BSL3 standards. By making the necessary HVAC and BAS upgrades, overall general biosafety will be ensured and the risk of a building failure will be greatly reduced. Thus, with the requested modifications, the sustainability of the globally impactful mycobacterial research program housed within the BRB may successfully continue.

D. <u>DETAILED COST ESTIMATE</u> (detail by phase, one page per phase, include all phases)

| 1) Approved By Mike Rush | 2) Phase? | 1 of 1 | |
|--------------------------------|-----------------------------------|--------|----|
| 3) Method and Date of Estimate | Remodel and Construction Services | | 12 |

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|--|-----------|
| Arch/Eng/Basic Services: | 244,361 |
| Code Review/Inspection: | 7,500 |
| Other (Explain): PM fee & commissioning | 142,000 |
| Inflation Percentage/dollar amount: (required for each out year phase) | , |
| Total of Professional Services: | \$393,861 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|--|--------------------------|----------------|---------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| b) Site Improvements: | | | |
| Structure/Systems/Components | | | |
| Air Handling units | 7 ea | 76,555 | 535,883 |
| Backdraft and manual dampers | 9 ea | 2,182 | 19,635 |
| Controls | sf | 7.32 | 178,500 |
| Phoenix valves and pressure monitors | 4 ea | 1,721 | 6,885 |
| Supply air ductwork | sf | .70 | 17,000 |
| Exhaust fans and humidifiers | sf | 2.30 | 56,100 |
| Piping, heat exchangers, heat recovery system | sf | 7.29 | 177,650 |
| Ductwork modifications | sf | 1.39 | 34,000 |
| Disconnects | 7 ea | 4,469 | 31,280 |
| Electrical connections | sf | 1.14 | 19,805 |
| Fire alarm and smoke detection | sf | .66 | 16,150 |
| Anteroom construction pods 1 & 2 (191 sf) | sf | 82.33 | 15,725 |
| Other(explain): | | | |
| Demo existing | sf | 1.58 | 38,471 |
| Misc wall repairs throughout | sf | .7 | 17,000 |
| Contractor's General Conditions: | | A LONG & MARCH | 109,561 |
| Contractor's Overhead & Profit: | | | 95,866 |
| Inflation Percentage/dollar amount: (required for each out year phase) 3% | Maria and | | |
| Total of Construction Improvement Costs: | | | \$1,369,511 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 24,378 sf | |
|---|------------|--|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | \$56.18/sf | |

\$

6) Miscellaneous (explain) Total of Miscellaneous Costs:

SBP CM-3 Rev. 5/16

| 7) Project Contingency Contingency (10% CM) (Percentage of total of professional services, construction | \$176,587 |
|--|-----------|
| improvements, and miscellaneous costs.) | |
| | |

Note: Agency formatted cost estimates may accompany this page.

E. PROPOSED PHASING

PRIOR PHASING¹

contingency(7)

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|---------------|--------------|-------------------------|---|
| | FY 2013/2014 | | |
| and the grant | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | a | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 1 | \$1,939,959 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$ |

(Subtotal)

TOTAL PROJECT DOLLAR AMOUNT

\$1,939,959

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

PHASE

FROM

\$

| 1. Pre-Design (Insert Dates) | | | |
|---------------------------------------|-----------|------------|--|
| 2. Design (Insert Dates) | July 2017 | April 2018 | |
| 3. Construction (Insert Dates) | May 2018 | Sept 2019 | |
| 4. Project Close-out/Final Completion | Oct 2019 | Oct 2019 | |
| | | | |

| 6 | | 1 |
|---|--|---|
| | | |

| PROJECT: SU BHRB Long Term Plan stion 2 pdated on 7/15/16, Outdoor | | | | | | | |
|---|--------|----------|--------------------------|------------------------|--------------------------|---------------------------|--------------------------------|
| | | | | | | | No Design |
| | | | | | | | Prelim. Design Final Design |
| nits | | | | | | <u> </u> | Other |
| OCATION: Ft. Collins EFERENCE DRAWING NO.: N | / | | PREPARED CHECKED | BY: Sean Co BY: N/A | nvery | | |
| SUMMARY | QUAN | TITY | | TOTAL | LA PER | BOR | TOTAL COST |
| | UNITS | | UNIT | | UNIT | | |
| emolition (Mechanical): emove AHU's | 2 | ea | | | \$5,000.00 | \$10,000.00 | \$10,000. |
| emove Boilers emove Deaerator | 3 | ea ea | | | \$6,500.00 \$6,000.00 | \$19,500.00 \$6,000.00 | |
| emove boiler accessories emove portion of supply air | 1 1000 | ls lb | | | \$2,000.00 \$4.70 | \$2,000.00 \$4,700.00 | |
| uct/dampers emove motorized exhaust fan | 12 | ea | | | \$500.00 | \$6,000.00 | |
| ampers emove snow melt coil and O.A. | 1 | ls | | | \$3,000.00 | \$3,000.00 | \$3,000. |
| lenum lemove Boiler Flue | 1 | ls | | | | | \$2,000. |
| lew (Mechanical): | | - | | | | | |
| iew AHU's (BSL-3 Suites) | 6 | ea | | \$435,000.00 | \$10,000.00 | \$60,000.00 | |
| iew AHU (non BSL-3 suite) Concrete Pad for AHU's | 1 | ea ea | \$40,000.00 | \$40,000.00 | \$8,000.00 | \$8,000.00 | \$7,000. |
| iew supply air ductwork iew O.A. plenum - attic | 1 | ls | | \$0.00 | - Deleted - | included AHU's going | \$20,000. |
| xhaust backdraft damper & | 9 | ea | \$1,000.00 | \$9,000.00 | \$500.00 | outside \$4,500.00 | \$13,500. |
| nanual dampers Re-weld joints in exhaust ducts | 40 | ea | \$20.00 | \$800.00 | \$220.00 | \$8,800.00 | \$9,600. |
| hat have tape Addifications to hydronics to | 1 | ls | | | | | \$80,000 |
| natch AHU's Addify Heat Recovery System | 1 | ls | | | | | \$60,000 |
| Addity Heat Recovery System Move Heat Exchangers to Basement, incl pipe access. | 4 | ea | \$3,000.00 | \$12,000.00 | \$4,000.00 | \$16,000.0 | S28,000. |
| Add piping between HX's and Attic | 1 | ls | | | | \$0.0 | D \$31,000. |
| Aigrate Controls system to new CI | 1 | ls | | | | \$0.0 | |
| iew Control Points (AHU's) Re-route existing ductwork for | 1 | ls ls | | | | \$0.0 | \$120,000 0 \$20,000 |
| nsulation for new ductwork | 1 | ls | (added | | | \$0.0 | 0 \$20,000 |
| nsulation for new Piping | 1 | ls | Jacketing) added | | | \$0.0 | 0 \$15,000. |
| Replace Exhaust Fans | 1 | ls | jacketing | | | \$0.0 | |
| iew Humidifiers fest & balance | 1 | ls ls | | | | \$0.0 \$0.0 | |
| | | | | | | | |
| emolition (Electrical): | 2 | | | | \$500.00 | \$1,000.0 | 0 \$1,000 |
| Disconnect Existing AHU & Remove Branch Circuit to Source | | ea | | | \$500.00 | 31,000.0 | |
| Disconnect Existing AHU Fire | 2 | ea | | | \$500.00 | \$1,000.0 | 0 \$1,000 |
| Disconnect Existing Boilers & Remove Branch Circuit to | 3 | ea | | | \$500.00 | \$1,500.0 | 0 \$1,500 |
| iource Disconnect Existing Deaerator & Remove Branch Circuit to | 1 | ea | | | \$500.00 | \$500.0 | 0 \$500 |
| Source Disconnect Existing Motorized | 12 | ea | | | \$200.00 | \$2,400.0 | 0 \$2,400 |
| Dampers | | | | | | | |
| New (Electrical): New AHU's (Branch Circuit | 7 | ea | | | \$2,500.00 | \$17,500.0 | |
| only) New AHU Disconnects in Existing Motor Control Center | 6 | ea | | | \$6,000.00 | \$36,000.0 | 0 \$36,000 |
| New AHU Disconnect in Existing | 1 | ea | | 1 | \$800.00 | \$800.0 | 0 \$800 |
| Switchboard New AHU Duct Smoke Detectors | 7 | ca | | | \$2,000.00 | \$14,000.0 | 0 \$14,000 |
| Fire Alarm System | 1 | ls | | | \$5,000.00 | \$5,000.0 | 0 \$5,000 |
| Reprogramming Misc. Electrical Work to Accommodate Mechanical Scope | 1 | ls | | | \$3,000.00 | \$3,000.0 | 0 \$3,000 |
| Relocate existing conduit, ighting, etc.) | | | | | \$400.00 | \$2,800.0 | 00 \$2,800 |
| HU Control Power & Integral Lighting Connections | 7 | ea | | | \$400.00 | 52,800.0 | 32,80 |
| install new Anteroom to separate | - | - | | | | | |
| nstall new Anteroom to separate Pod 1 & 2: Walls & Ceiling (studs, | 1 | ls | | | | | \$15,00 |
| heetrock, FRP) Lighting (Reconfigure Existing) | 1 | ls | | | \$1,000.00 | \$1,000.0 | 00 \$1,00 |
| Power (Reconfigure Existing) | 1 | ls | | | \$500.00 | \$500.0 | |
| Diffuser/Grille Ductwork | 1 | ls ls | | | | 4 | \$1,00 \$1,00 |
| Phoenix Valves | 2 | ea ea | \$1,500.00 \$1,200.00 | | | | 00 \$3,60 |
| Pressure Monitors Misc. General Conditions (wall | | - | | | | | \$1 \$20,00 |
| patches, etc) | | | | | | | |
| Subtotal Estimating Contingency (6%) | | | | | | | \$1,434,85 \$86,09 |
| Total Construction Cost: | | | | | | | \$1,520,94 |
| | | | | | | | \$60,0 |

Facilities Audit Program Building Summary

Building Name:Bio-Environmental Hazards ResearchNumber:1424Construction Date:2000Gross Square Feet:24,378Net Square Feet:23,435Date of Audit:06/11/2002Cycle:4Phase:2No. of Stories:1Classification:M150College, LaboratorySBP Class:11ScienceReplacement Cost:\$12,930,298.41Cost Per SF:\$530.41

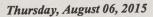
| Component | Total Rating | Multiplier Used | Component Deficiency | Renewal Cost |
|------------|-----------------|--------------------|-------------------------|-----------------|
| | | | | |
| Foundation | 0.0100 | 0.07 | 0.0007 | \$9,051.21 |
| Ext Walls | 0.0100 | 0.06 | 0.0006 | \$7,758.18 |
| Floors | 0.0100 | 0.07 | 0.0007 | \$9,051.21 |
| Roof | 0.0100 | 0.06 | 0.0006 | \$7,758.18 |
| Ceiling | 0.0100 | 0.03 | 0.0003 | \$3,879.09 |
| Int Walls | 0.0100 | 0.09 | 0.0009 | \$11,637.27 |
| Windows | 0.0100 | 0.02 | 0.0002 | \$2,586.06 |
| Doors | 0.0100 | 0.02 | 0.0002 | \$2,586.06 |
| Cool Vent | 0.0100 | 0.06 | 0.0006 | \$8,404.69 |
| Heat | 0.0100 | 0.06 | 0.0006 | \$8,404.69 |
| Plumbing | 0.0100 | 0.14 | 0.0014 | \$18,102.42 |
| Electrical | 0.0100 | 0.07 | 0.0007 | \$9,051.21 |
| Safety | 0.0100 | 0.02 | 0.0002 | \$2,586.06 |
| AE/OP | 0.0078 | 0.21 | 0.0016 | \$21,179.83 |

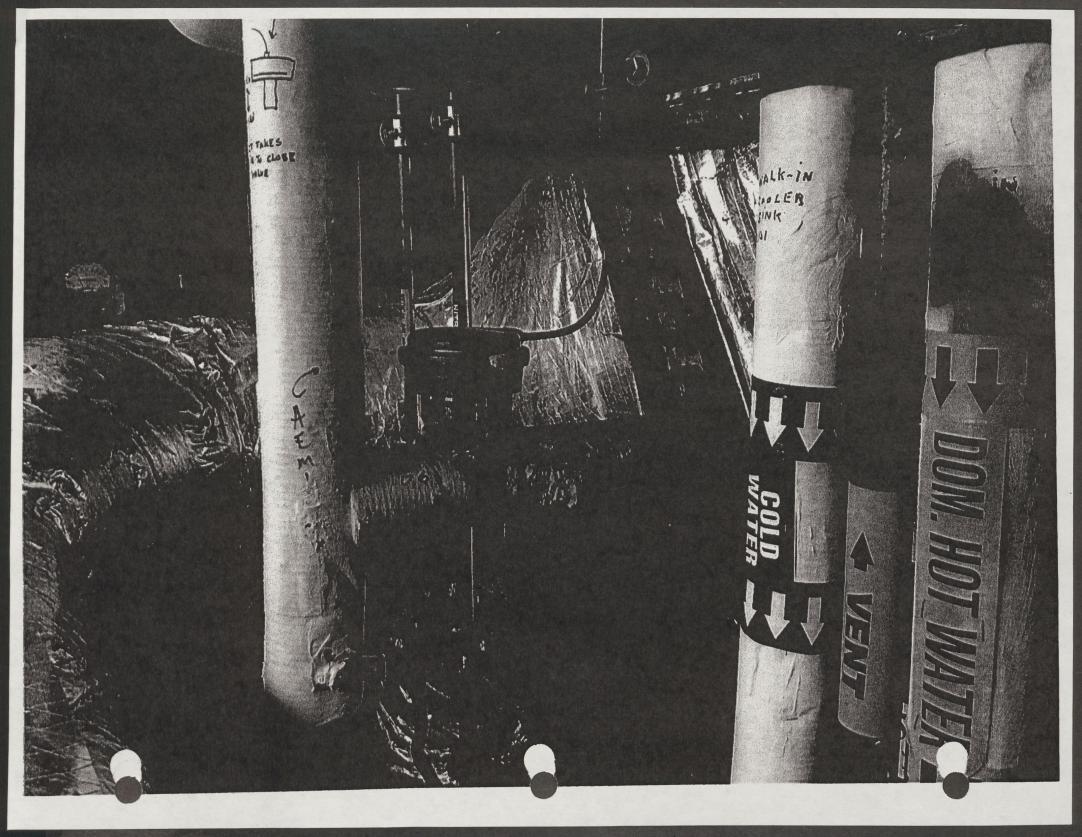
Component Deficiency Total:

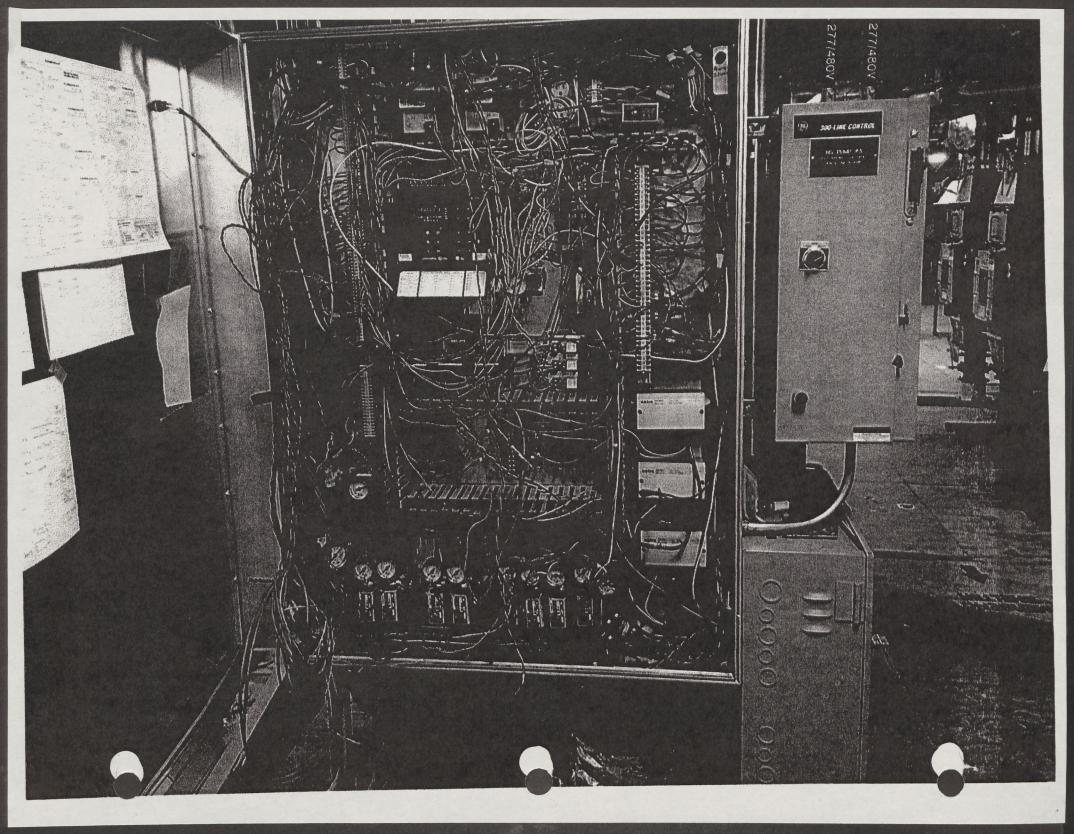
0.0094

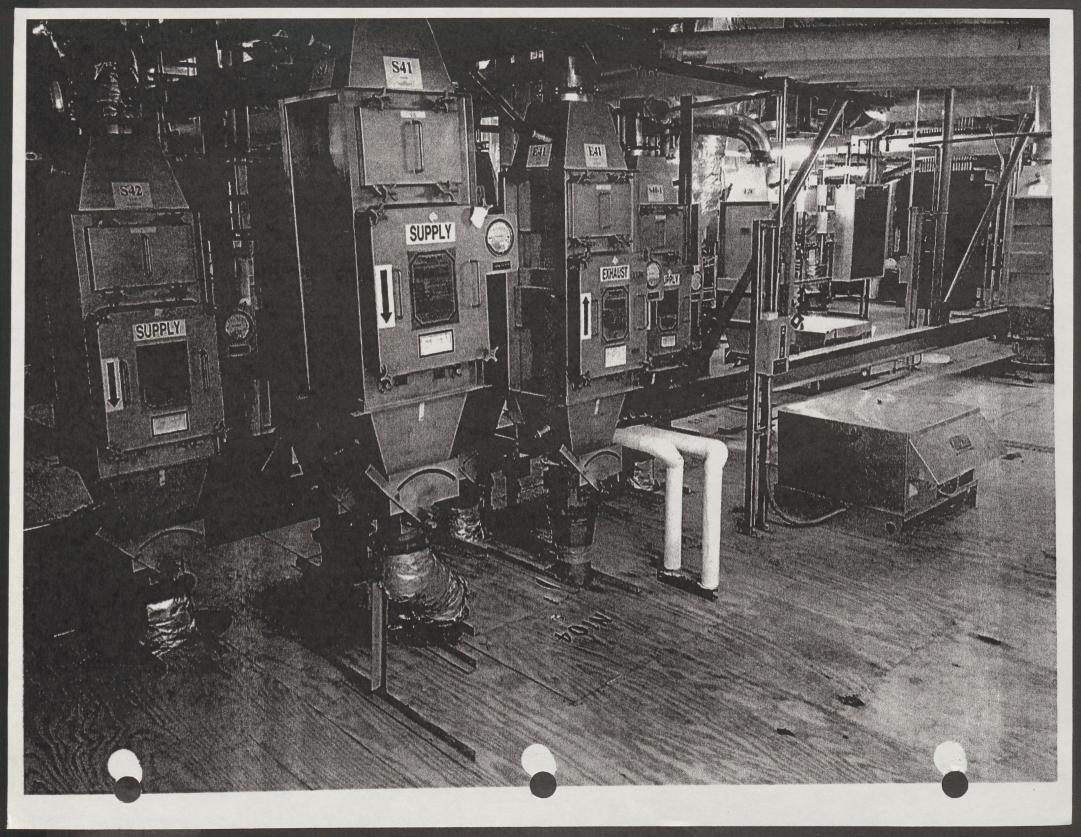
Outstanding Maintenance:\$122,036.15Facilities Condition Index (FCI):99.06

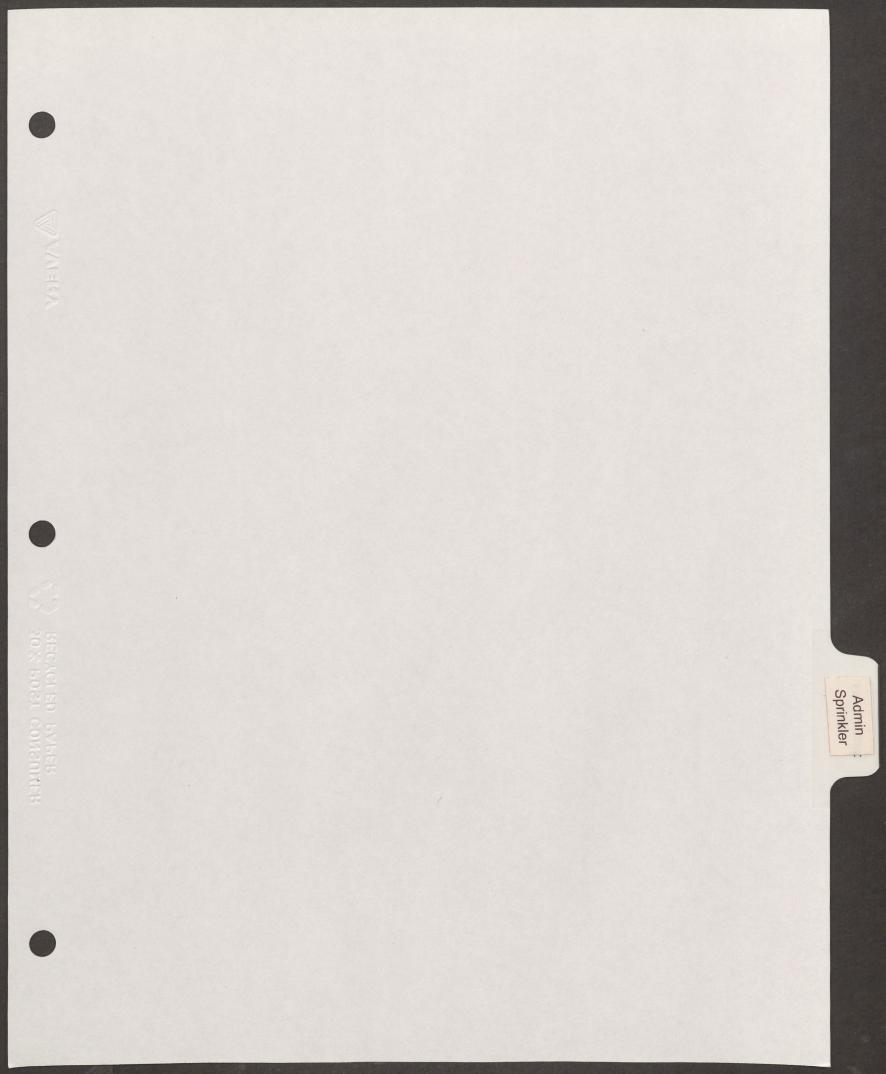
 $FCI = (1-Component Deficiency Total) \times 100$ AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)











| FFIC | | STATE AF | | | | | | Page 1 of |
|--|---|--|---|--|---|--|----------------------------|--------------|
| | | | | OJECT REQ | UEST FY 20 | 17/2018 | | |
| | | IGS PROG | XAIVI | | | | | |
| | BENCY BA | ASIC DATA: | F | | | | | |
| | | d Maintena | ince | Capital | Renewal Bu | ilding/l | nfrastructu | re Request |
| | Request | | L | HPCP | required in C | apital F | Renewal Re | quest (Y/N) |
| and have been been added and | ency / titution | Colorado S | tate Unive | ersity Fort Coll | lins | | | |
| | ecutive | | | | | | | |
| | ector | | | | | _ | | |
| Sig | nature | | | | | Date | | |
| 3) Age | ency ID No | | | | | Project | : M # | |
|) Age | ency Priori | ty # _1 | | | | | | |
|) Pro | ject Title | Administrat | ion Buildi | ng Sprinkler a | nd Emergency | Lighting | | 199 |
| FAC | | | | | | | | |
| and the state | CILITY PR | | 14:124 | | | | | |
|) Fac | ility Type | | | derground) | | | | |
| | | | | ements above | | | | |
| | | | - | ne (s) Ad | ministration Bu | illding | | |
| | | | | | | | | |
| | | | /Igmt. Bldg | g(s) ID# | | | | |
| Contract of the second | | on Main C | ampus | | | | | |
| Contract of the second | | | ampus | | SF _29,311 | | Date Built | _1924 |
| B) Fac | cility Area/A | on <u>Main C</u> Age GSF | ampus 33,304 | A | SF _29,311 ninistration Offi | се | Date Built | 1924 |
| 8) Fac I) Fac | cility Area/A cility Functi | on <u>Main C</u> Age GSF | ampus 33,304 cupancy | A | | се | Date Built | |
| 8) Fac 1) Fac 5) Fac | cility Area/A cility Functi cility Const | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) | ampus 33,304 cupancy | Central Adm | | | Date Built | 1924 |
| 3) Fac 4) Fac 5) Fac 5) Fac | cility Area/A cility Functi cility Const | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) | ampus 33,304 cupancy) and Facili | A Central Adm | ninistration Official | nber | Date Built | |
| B) Fac Fac Fac Fac Fac Actu | cility Area/A cility Functi cility Const cility Physic ual FCI = | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) al Condition 75 | ampus 33,304 cupancy) and Facili Targ | Central Adm Central Adm ity Condition In eted FCI = | ninistration Officient | nber Date | | |
| B) Fac Fac Fac Fac Fac Actu | cility Area/A cility Functi cility Const cility Physic ual FCI = | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) al Condition 75 | ampus 33,304 cupancy) and Facili Targ | Central Adm Central Adm ity Condition In eted FCI = | ninistration Offi ndex (FCI) Nun 100 | nber Date | | |
| B) Fac Fac Fac Fac Fac Actu | cility Area/A cility Functi cility Const cility Physic ual FCI = | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) al Condition 75 | ampus 33,304 cupancy) and Facili Targ | Central Adm Central Adm ity Condition In eted FCI = | ninistration Offi ndex (FCI) Nun 100 | nber Date | | |
| B) Fac Fac Fac Fac Fac Actu | cility Area/A cility Functi cility Const cility Physic ual FCI = | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) al Condition 75 | ampus 33,304 cupancy) and Facili Targ | Central Adm Central Adm ity Condition In eted FCI = | ninistration Offi ndex (FCI) Nun 100 | nber Date | | |
| Fac Fac Fac Fac Fac Fac Actu (Des | cility Area/A cility Functi cility Const cility Physic ual FCI = scribe) Des | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) cal Condition 75 sk audit done | ampus 33,304 cupancy) and Facili Targ in 2015, | A Central Adm ity Condition In eted FCI = last physical a | ninistration Offi ndex (FCI) Nun 100 audit done in 20 | nber Date 008. | of Last Audi | it 2015 |
| Fac Fac Fac Fac Fac (Des | cility Area/A cility Functi cility Const cility Physic al FCI = scribe) Dec cility - Inter | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) cal Condition 75 sk audit done | ampus 33,304 cupancy) and Facili Targ in 2015, | A Central Adm ity Condition In eted FCI = last physical a | ninistration Offi ndex (FCI) Nun 100 | nber Date 008. | of Last Audi | it 2015 |
| Fac Fac Fac Fac Fac Fac (Des | cility Area/A cility Functi cility Const cility Physic ual FCI = scribe) Dec cility - Inter 25/12 | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) cal Condition 75 sk audit done | ampus 33,304 cupancy and Facili Targ in 2015, | A Central Adm ity Condition In eted FCI = last physical a Operation: (H | ninistration Offi ndex (FCI) Nun 100 audit done in 20 | nber Date 008. | of Last Audi | it 2015 |
| Fac Fac Fac Fac Fac Fac (Des (Des 7) Fac 10/2 3) Fac | cility Area/A cility Functi cility Const cility Physic ual FCI = scribe) Des cility - Inter 25/12 cility - Curr | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) al Condition 75 sk audit done sity of Use, T | ampus 33,304 cupancy) and Facili Targ in 2015, fime(s) of | A <u>Central Adm</u> ity Condition In eted FCI = last physical a Operation: (H 9,975,2 | ninistration Offi ndex (FCI) Nun 100 audit done in 20 lours/Day, Day | nber Date 008. | of Last Audi | it 2015 |
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| Fac Fac Fac Fac Fac Fac (Des 7) Fac 10/2 3) Fac a) [| cility Area/A cility Functi cility Const cility Physic al FCI = scribe) Des cility - Inter 25/12 cility - Curre ster Plan S Facil | on <u>Main C</u> Age GSF onal Use/Occ ruction (Type) al Condition 75 sk audit done sity of Use, T ent Replacem tatus - Check ty 'useful' life | ampus 33,304 cupancy and Facili Targ in 2015, fime(s) of nent Value cone or n is less th | A Central Adm ity Condition In eted FCI = last physical a Operation: (H e $9,975,2$ nore of the foll an five (5) yea | ninistration Offi ndex (FCI) Nun 100 audit done in 20 lours/Day, Day 50 lowing: ars. | nber Date 008. | of Last Audi | it 2015 |
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SBP CM-3 Rev. 5/16



11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | P |
|-------------|---|
| 2015-073M14 | F |

Project Title Fire Alarm Upgrades Completion date or status 7/2016

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

The Administration Building's south exit stair is unenclosed and also meets the definition of an atrium. It does not have fire sprinkler protection or a 2-hr rated enclosure as required by code. In addition, occupied portions of the basement are more than 90' from exits, which also requires sprinkler protection per code. The best solution for both items is to install sprinklers in the building.

Note: Fire alarms were upgraded with recent CM project to improve occupant and public safety pending the sprinkler installation.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$458,981

 Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

This building houses Central Administration offices and is routinely visited by the members of the public. Code deficiencies include inadequate emergency exit lighting and lack of sprinklers for atrium and basement areas.

- 4) **Mandatory** Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This project will alleviate fire code concerns, allowing for safe exit of occupants and visitors.



D. <u>DETAILED COST ESTIMATE</u> (detail by phase, one page per phase, include all phases)

1) Approved By Mike Rush 2) Phase? 1 of 1

3) Method and Date of Estimate Remodel and Construction Services

| Site Surveys, Investigations, and Reports: | |
|--|----------|
| Arch/Eng/Basic Services: | 34,549 |
| Code Review/Inspection: | 1,531 |
| Other (Explain): PM fee | 13,699 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$49,779 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|---|--------------------------|-----------|---------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| 6" water line from street (approx 120 ft) | Lf | 414.38 | 49,725 |
| b) Site Improvements: | | | |
| Structure/Systems/Components | | | |
| Fire pump | ls | 21,956 | 21,956 |
| Sprinkler system | sf | 2.80 | 93,135 |
| Standpipe | Ls | 32,810 | 32,810 |
| Pipe Chases, core drills, wall/floor repairs | sf | 0.74/sf | 24,628 |
| Emergency lights | ea | 297.50 | 13,090 |
| Wiring and conduit | sf | 0.40/sf | 13,305 |
| Architectural finishes for historic building | sf | 1.27/sf | 42,456 |
| Other(explain):temporary moves | allowance | | 25,000 |
| Contractor's General Conditions: | | | 27,398 |
| Contractor's Overhead & Profit: | | | 23,973 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | | | \$367,476 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 33,304sf | |
|---|------------|--|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | \$10.28/sf | |

6) Miscellaneous (explain)

| Total of Miscella | maaua Casta |
|---------------------|-------------|
| I OTAL OT IVUSCEILA | meous Cosis |

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | \$41,726 |
|--|----------|
| improvements, and miscellaneous costs.) | |

\$

| 8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional | |
|--|--|
| services (4), construction improvements(5), miscellaneous costs(6), and project | |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| 1.1 | FY 2016/2017 | | |
| | | (Subtotal) | \$ |

CURRENT PHASE² REQUESTED

| Proj. | Fiscal Year | Phase of Work | Dollar Amount |
|-------|--------------|---------------|---------------|
| M# | | | (Per Detailed |
| | | | Budget) |
| | FY 2017/2018 | 1 of 1 | \$458,981 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$ |

(Subtotal)

\$458,981

TOTAL PROJECT DOLLAR AMOUNT

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List <u>all previous phases with actual appropriation by year (include federal funding)</u>. Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|-----------|------------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | May 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |





AT COLORADO STATE UNIVERSITY

REMODEL SERVICES BUDGET OPINION

This Budget Opinion is for budgetary purposes only. Prices may change after design is complete

| To: | Steve Hultin Director of F 491-0006 Facilities No | Facilities Management . | | Date: Project #: Customer ID# Expiration Date: | 1509 | 10/15 910C 030 0/2015 |
|---------------|--|--|------------|---|-------|--------------------------------|
| | | | | | | |
| Barry Willier | 491-6567 | Administration Fire Sprinkler System | | | | |
| | | | | | | |
| | | Admin Fire Sprinkler System Budget | | | | |
| 1.00 | Fire Pump | It is estimated that a new fire pump system will be needed for | 25,830.00 | | 2 | 5,830.00 |
| | | project. | | | | |
| 1.00 | Fire Line | A new 6" water line from street is needed to feed new fire sprinkler | 58,500.00 | | 5 | 8,500.00 |
| | | system. Approx. 120' long with sod, road, and concrete repairs. | | | | |
| 1.00 | Sprinkler | The new fire sprinkler system in approx. 33304 sf building at 3.29/sf. | 109,570.00 | | 10 | 9,570.00 |
| | System | | | | | |
| 1.00 | Stand Pipe | A network of class one stand pipe is to run through four floors. | 38,600.00 | | 3 | 8,600.00 |
| 1.00 | Pipe Chase | Pipe chases, core drills, and wall and floor repairs. | 28,900.00 | | 2 | 8,900.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | Con | struction Subtotal | 26 | 51,400.00 |
| | | | | Contingency | | 6,140.00 |
| | | | | Design Fees | | 31,368.00 |
| | | | | Code Review Fees | | 1,106.48 |
| | | | | Management Fees | \$ 2 | 9,276.80 |
| | | | A | dvertisement Fees | | |
| | | | | Total | \$ 34 | 9,291.28 |

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

Budget Opinion is for this project only and is subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included.

2. Asbestos or Lead hazard assessment or abatement is not covered unless stated

3. This quote does not cover the activation of phone and data lines; customer

will need to contact Telecom to activate lines

To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please Thank You For Your Business process a Kuali WOA.





AT COLORADO STATE UNIVERSITY

REMODEL SERVICES BUDGET OPINION

This Budget Opinion is for budgetary purposes only. Prices may change after design is complete

 To:
 Sandy Sheahan
 Date:
 09/08/15

 Facilities
 Project #:
 150908A

 [phone]
 Customer ID#
 6030

 Facilities North
 Customace ID#
 12/8/2015

| Barry Willier | 491-6567 | Admin Building EM Lighting | | | |
|---------------|----------|---|---------------|-------------------|-----------------|
| | | | | | |
| 1.00 | EM | Budget to supply up 44 EM lights to Admin building. Lighting to be | \$ 15,400.00 | | 15,400.00 |
| | Lighting | designed and laid out by Electrical Engineer. Lighting is different | | | |
| | | types at different locations in building. Some EM lighting to be frog | | | |
| | • | eyes with battery back up, some to be troffer to match what is in the | | | |
| | | building. Exterior lighting will be more expensive. Budget is for an | | | |
| | | average price of \$350 per light fixture. | | | |
| 1.00 | X Elect | CSU electricians to install new lighting, new wiring and piping to | 15,720.00 | | 15,720.00 |
| | | new EM lights. | | | |
| | | Pricing is subject to change dependant on engineered design. | | | |
| | | Engineer to try and design to budget. | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | Cons | truction Subtotal | 31,120.00 |
| | | | | Contingency | 3,112.00 |
| | | | | Design Fees | \$ 3,181.20 |
| | | | Third Party C | ode Review Fees | 424.69 |
| | | | Project N | lanagement Fees | \$ 3,430.12 |
| | | | Ad | vertisement Fees | |
| | | | | Total | \$ 41,268.01 |

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

Budget Opinion is for this project only and is subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included.

2. Asbestos or Lead hazard assessment or abatement is not covered unless stated 3. This quote does not cover the activation of phone and data lines; customer

will need to contact Telecom to activate lines

To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please process a Kuali WOA. Thank You For Your Business \$ 5,320.95

Facilities Audit Program Building Summary

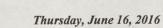
| Building Name | : Administrat | ion | | <i>Number:</i> 0080 | |
|----------------------|---------------|-----------|------------------|---------------------|--------|
| Construction D | ate: 1924 | Gross Squ | are Feet: 32,172 | Net Square Feet: | 29,311 |
| Date of Audit: | 11/03/2008 | Cycle: 6 | Phase: 3 No. | of Stories: 3 | |
| Classification: | M460 Office | Building | SBP Cla | ass: 16 Office | |
| Replacement C | ost: \$4,004 | ,603.27 | Cost Per SF: | \$124.47 | |

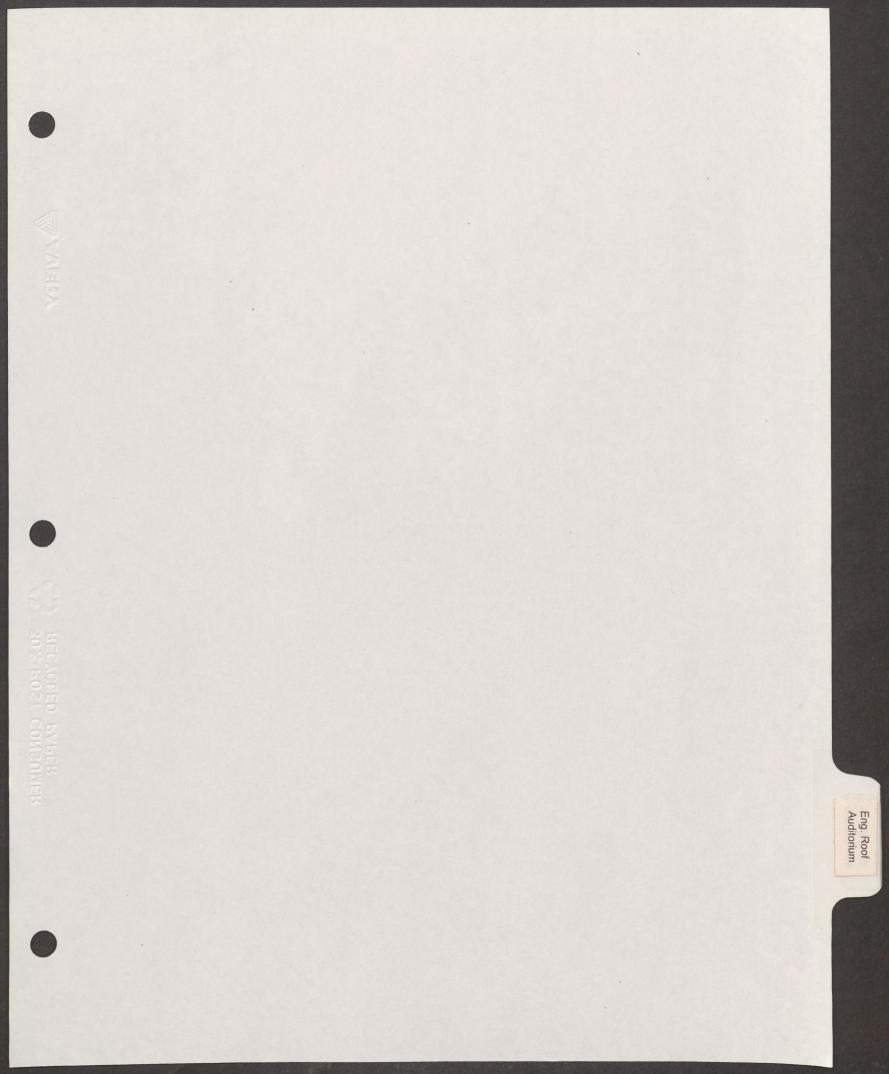
| Component | Total Rating | Multiplier Used | Component Deficiency | Renewal Cost |
|------------|-----------------|--------------------|-------------------------|-----------------|
| Foundation | 0.2000 | 0.02 | 0.0040 | \$16,018.41 |
| Ext Walls | 0.1500 | 0.09 | 0.0135 | \$54,062.15 |
| Floors | 0.1500 | 0.16 | 0.0240 | \$96,110.48 |
| Roof | 0.1000 | 0.03 | 0.0030 | \$12,013.81 |
| Ceiling | 0.1000 | 0.05 | 0.0050 | \$20,023.02 |
| Int Walls | 0.2000 | 0.05 | 0.0100 | \$40,046.03 |
| Windows | 0.3000 | 0.02 | 0.0060 | \$24,027.62 |
| Doors | 0.2500 | 0.05 | 0.0125 | \$50,057.54 |
| Cool Vent | 0.0900 | 0.07 | 0.0063 | \$25,229.00 |
| Heat | 0.0900 | 0.08 | 0.0072 | \$28,833.14 |
| Plumbing | 0.2000 | 0.02 | 0.0040 | \$16,018.41 |
| Electrical | 0.1500 | 0.12 | 0.0180 | \$72,082.85 |
| Convey | 0.3500 | 0.03 | 0.0105 | \$42,048.33 |
| Safety | 0.4000 | 0.01 | 0.0040 | \$16,018.41 |
| AE/OP | 0.1280 | 0.18 | 0.0230 | \$92,266.06 |

Component Deficiency Total: 0.1510

Outstanding Maintenance:\$604,855.28Facilities Condition Index (FCI):84.90

FCI = (1-Component Deficiency Total) x 100 AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)





| | Request | Maintenance | | | | ing/Infrastructur ital Renewal Rec | |
|---|---|--|--|--|---|---|----------------|
| | ency / titution | Colorado State | University | Fort Collins | | | |
| Dire | ecutive ector nature | | | | D | ate | |
| ALL STREET | ency ID No. | | | 1 | PI | roject M # | and the second |
| 2411 | ency Priority | # 1 | | | | | |
| | | Engineering Bu | ilding Aud | itorium Roof R | eplacement | | |
| - | | | | | | | |
| A State State | CILITY PRO | Contraction of the State of the | | | | | |
|) Fac | ility Type | Site (Utiliti | | | | | |
| | - | | | ts ab <u>ove grou</u>) Enginee | | | |
| | | Risk Mgm | and the second | A State State State | ning bununing | | |
|) Eac | Lility Location | | | ID# | | | |
| 6 | | A DECEMBER OF | | 105 | 109 520 | Date Built | 1957 |
| | | | | | | | |
| and the second | cility Area/Ag | State of the second second second | Name and Allen | ASF | 198,530 | Date Built | |
|) Fac | ility Functio | nal Use/Occupa | Name and Allen | and provide the subsection of the sector | | | |
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| STATE BUILDIN | DRADO STATE ARCHITECT MAINTENANCE PROJECT REQUES GS PROGRAM | T FY 2017/2018 | Page 2 of 4 |
|--|---|---|---|
| 11) List all the con the last five ye infrastructure | trolled maintenance, capital construction ears or ongoing projects that can be asso request. | , and emergency projects co ciated with either this CM bu | ompleted within ilding or |
| Project No. | Project Title | | Completion date or status |
| NOTE: For a Capita nformation required 1) Narrative Descr Failed roof with drainage due to | PROGRAM PLAN DATA al Renewal Building/Infrastructure Reque d to support the request as indicated belo ription of CM Problem (Initial problem and n multiple patches that is in need of total n o low areas and damaged insulation. Th uest to replace the entire Engineering A a | w d solution by phase): replacement. Roof does not his project has been downsi | have proper |
| which will be an a first of the state of the | ost Estimate (From Cost Breakdown) \$ (cost effects, program impacts, facility im | \$145,896 | nd justifying this |
| specific project | A STATE OF A | ipacts, etc.) of <u>not</u> funding a | na jasarying tins |
| · · | ng Building Auditorium roof is the highest | priority roof repair for that b | |
| upcoming Stud of the Student panels, paint a construction is | lent Facility Fee funded renovation of the Facility Fee for the auditorium upgrade in nd lighting. The roof replacement will pro expected to be complete by Fall 2017. T in the rest of the Engineering A & B wings | auditorium. Students voted Spring 2016, including new otect this investment from be The auditorium roof can be o | to approve use seating, sound ing damaged and |
| upcoming Stud of the Student panels, paint a construction is separately from 4) Mandatory - In- infrastructure p | ent Facility Fee funded renovation of the Facility Fee for the auditorium upgrade in nd lighting. The roof replacement will pro expected to be complete by Fall 2017. The the rest of the Engineering A & B wings clude Facility Audit documentation from r project request. | auditorium. Students voted Spring 2016, including new otect this investment from be The auditorium roof can be o most recent audit. Include s | to approve use seating, sound ing damaged and ompleted |
| upcoming Stud of the Student panels, paint a construction is separately from 4) Mandatory - In- infrastructure p 5) Optional - Inclustication | ent Facility Fee funded renovation of the Facility Fee for the auditorium upgrade in nd lighting. The roof replacement will pro expected to be complete by Fall 2017. The the rest of the Engineering A & B wings clude Facility Audit documentation from re project request. de photographs and any other supporting how this project will improve the building(| auditorium. Students voted a Spring 2016, including new otect this investment from be the auditorium roof can be o | to approve use seating, sound ing damaged and ompleted ite maps for any |

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

2) Phase? 1 of 1 1) Approved By Mike Rush

3) Method and Date of Estimate Remodel and Construction Services

| 4) Professional Services | |
|--|----------|
| Site Surveys, Investigations, and Reports: | |
| Arch/Eng/Basic Services: | 12,782 |
| Code Review/Inspection: | 642 |
| Other (Explain): PM fee | 4,648 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$18,072 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| <u>WORK ITEM</u> (Labor/Material/Equipment) | sf, cf, lf, etc. | UNITCOST | EXTENDED COST |
|---|----------------------------|-------------------|-------------------|
| Infrastructure | | | |
| | | | |
| a) Utility Services: | | | |
| and have not require a second second | | | |
| b) Site Improvements: | | | The second second |
| Structure/Systems/Components | 5282 sf | \$18.70/sf | 98,774 |
| Structure/Systems/Components | 5202 31 | \$10.70/SI | |
| | | The second | 12 manual and |
| Other(explain): | | | |
| | | 1000 200200 | |
| Contractor's General Conditions: | | | 9,296 |
| Contractor's Overhead & Profit: | | | 8,134 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | Construction of the second | and second second | \$116,204 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 5,282 | |
|---|---------|--|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | \$22/sf | |

6) Miscellaneous (explain)

| | Windstein | A DE | |
|-------------------------------|-----------|------|----|
| Total of Miscellaneous Costs: | | | \$ |

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 11,620 | |
|--|-----------------------|--|
| improvements, and miscellaneous costs.) | and the second of the | |
| | | |

8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional \$145,896 services (4), construction improvements(5), miscellaneous costs(6), and project contingency(7)

Note: Agency formatted cost estimates may accompany this page.



\$

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 STATE BUILDINGS PROGRAM

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|-------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed |
|-------------|--------------|---------------|--------------------------------|
| IVI# | | | Budget) |
| | FY 2017/2018 | 1 of 1 | 145,896 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | and the second | (Cubtotal) | ¢ |

(Subtotal)

\$145,896

TOTAL PROJECT DOLLAR AMOUNT

(All Prior, Future Phases subtotals and Current Dollar amount)

- ¹ List <u>all previous phases with actual appropriation by year (include federal funding)</u>. Note if different from requested amount.
- ² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|-----------|------------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | May 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |



AT COLORADO STATE UNIVERSITY

REMODEL SERVICES BUDGET OPINION

This Budget Opinion is for budgetary purposes only. Prices may change after design is complete

| To: | Shelly Carro Facilities 491-0167 Facilities | 51 | | | 06/01/16 160601E 9/1/2016 | 6030 |
|---------------|--|---|------------------|---------------------|---------------------------------|-----------|
| | | | | | | |
| Barry Willier | 491-6567 | Engineering Auditorium New Roof | | | | |
| | | | | | | |
| 1.00 | Roof | Remove and replace existing roof on Engineering Auditorium | \$ 116,204.00 | | | 6,204.00 |
| | | room 100 and lower level N109. New roofing material 60 mil | | | | |
| | | EPDM. Roof is approximately 5282 sq.ft. \$22 per square ft. | | | | |
| | | New roof to be designed. | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | Cor | nstruction Subtotal | 11 | 6,204.00 |
| | | | | Contingency | 1 | 1,620.40 |
| | | | | Design Fees | \$ 1 | 12,782.44 |
| | | | Third Party | Code Review Fees | | 641.85 |
| | | | Project | Management Fees | \$ 1 | 12,898.64 |
| | | | A | dvertisement Fees | | |
| | | | | Total | \$ 15 | 54,147.34 |

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

Budget Opinion is for this project only and is subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included.

2. Asbestos or Lead hazard assessment or abatement is not covered unless stated

3. This quote does not cover the activation of phone and data lines; customer will need to contact Telecom to activate lines

To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please process a Kuali WOA. Thank You For Your Business \$ 19,873.61



Facilities Audit Program Building Summary

Building Name:EngineeringNumber:0041Construction Date:1957Gross Square Feet:211,410Net Square Feet:198,530Date of Audit:09/21/2009Cycle:7Phase:1No. of Stories:2Classification:M120Classroom,2-3StorySBP Class:12EngineeringReplacement Cost:\$106,236,273.33Cost Per SF:\$502.51

| Component | Total Rating | Multiplier Used | Component Deficiency | Renewal Cost |
|------------|-----------------|--------------------|-------------------------|-----------------|
| Foundation | 0.1000 | 0.02 | 0.0020 | \$212,472.55 |
| Ext Walls | 0.0800 | 0.04 | 0.0032 | \$339,956.06 |
| Floors | 0.2500 | 0.12 | 0.0300 | \$3,187,088.13 |
| Roof | 0.4000 | 0.05 | 0.0200 | \$2,124,725.53 |
| Ceiling | 0.3500 | 0.04 | 0.0140 | \$1,487,307.77 |
| Int Walls | 0.2000 | 0.06 | 0.0120 | \$1,274,835.27 |
| Windows | 0.1650 | 0.03 | 0.0049 | \$525,869.56 |
| Doors | 0.2500 | 0.04 | 0.0100 | \$1,062,362.71 |
| Cool Vent | 0.0530 | 0.08 | 0.0042 | \$450,441.78 |
| Heat | 0.0280 | 0.09 | 0.0025 | \$267,715.43 |
| Plumbing | 0.1500 | 0.07 | 0.0105 | \$1,115,480.92 |
| Electrical | 0.0784 | 0.11 | 0.0086 | \$916,181.63 |
| Convey | 0.2500 | 0.01 | 0.0025 | \$265,590.68 |
| Safety | 0.0500 | 0.01 | 0.0005 | \$53,118.14 |
| AE/OP | 0.1250 | 0.18 | 0.0225 | \$2,390,966.43 |

Component Deficiency Total: 0.

0.1475

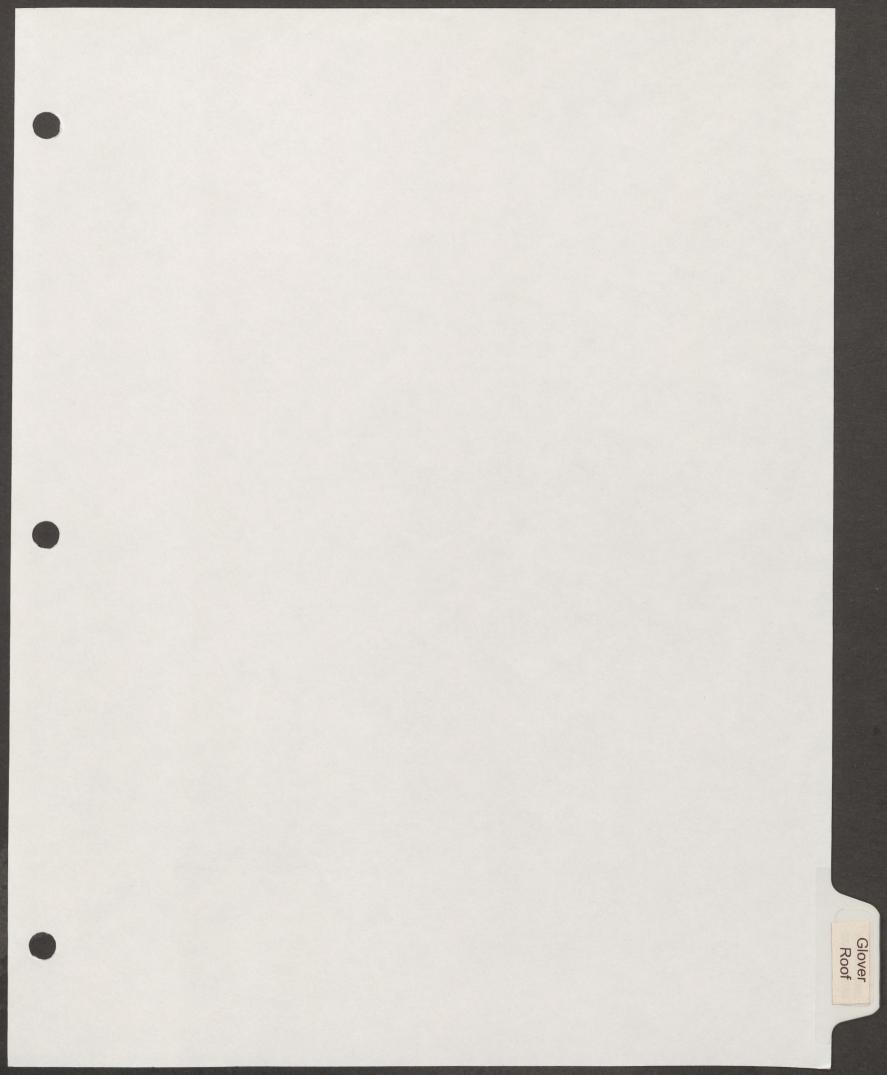
Outstanding Maintenance: \$15,674,112.80

Facilities Condition Index (FCI):

FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013



| | Controlle Request | d Maintenance | | | | | | re Request quest (Y/N) |
|---|---|---|--|--|---|---|---------------|---|
| | gency / stitution | Colorado State U | Jniversity | / Fort Collins | | | | |
| Di | ecutive rector gnature | | | | | Date | | |
| AND STREET | gency ID No | | | N. C. 199 (19) | | Project | : M # | A Starte |
| No.3 let | gency Priori | | | | | | | |
| 1 | | Glover Building | Roof Rep | placement | | | | |
| | | | | | | | | |
| Real Property | CILITY PR | ALL ALL AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL | in the second | 1) | | | | |
| I) Fa | acility Type | Site (Utilitie | The second second second | A CARLES AND A CARLES | | | | |
| | | | | nts ab <u>ove gro</u> s) Glove | CONTRACTOR OF A DEVICE AND A DEVICE AND | | | |
| | | | | | | | | |
| | | Risk Mgmt | | ID# | | | | |
| CONSERVER. | | on <u>Main Camp</u> Age GSF 52,3 | | ASF | 45,202 | | Date Built | 1950 |
| Statistics Colder | | A STATE OF A DECEMBER OF A | | | 40,202 | Carl Charles and Carl | - Duto Dune | |
| A) [| aility Eupoti | and llag Oggung | DOV CI | assroom Jah | oratory tele | com | | |
| 1 | | | ncy <u>Cl</u> | assroom, lab | oratory, tele | com | | |
| 5) Fa | acility Const | ruction (Type) | | | | | | |
| 5) Fa 6) Fa | acility Const acility Physic | ruction (Type) | Facility C | condition Inde | ex (FCI) Num | nber | of Last Aud | lit 2015 |
| 5) Fa 6) Fa Ac | acility Const acility Physic actual FCI = | ruction (Type) cal Condition and 71 | Facility C Targeted | condition Inde | ex (FCI) Num | nber | e of Last Aud | lit 2015 |
| 5) Fa 6) Fa Ac | acility Const acility Physic actual FCI = | ruction (Type) | Facility C Targeted | condition Inde | ex (FCI) Num | nber | e of Last Aud | lit 2015 |
| 5) Fa 6) Fa Ac | acility Const acility Physic actual FCI = | ruction (Type) cal Condition and 71 | Facility C Targeted | condition Inde | ex (FCI) Num | nber | e of Last Aud | lit 2015 |
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| 5) Fa 6) Fa <u>Ac</u> (D | acility Const acility Physio atual FCI = escribe) De | ruction (Type) _ cal Condition and 71 sk audit in 2015, I | Facility C Targetec ast physi | condition Inde d FCI = 100 cal audit done | ex (FCI) Num) e in 2009. | nber Date | | |
| 5) Fa 6) Fa (D (D 7) Fa | acility Const acility Physio ctual FCI = escribe) De acility - Inter | ruction (Type) cal Condition and 71 | Facility C Targetec ast physi | condition Inde d FCI = 100 cal audit done | ex (FCI) Num) e in 2009. | nber Date | | |
| 5) Fa 6) Fa (D (D 7) Fa 24 | acility Const acility Physic stual FCI = escribe) De acility - Inter | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time | Facility C Targeted ast physi (s) of Op | condition Inde d FCI = 100 cal audit done | ex (FCI) Num) e in 2009. | nber Date | | |
| 5) Fa 6) Fa (D (D 7) Fa 24 | acility Const acility Physic stual FCI = escribe) De acility - Inter | ruction (Type) _ cal Condition and 71 sk audit in 2015, I | Facility C Targeted ast physi (s) of Op | condition Inde d FCI = 100 cal audit done | ex (FCI) Num) e in 2009. rs/Day, Days | nber Date | | |
| 5) Fa 6) Fa Ac (D 7) Fa 24 8) Fa | acility Const acility Physic stual FCI = escribe) De acility - Inter 1/30/12 acility - Curr | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time | Facility C Targeted ast physi (s) of Op Value \$ | Condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> | ex (FCI) Num) e in 2009. rs/Day, Days | nber Date | | |
| 5) Fa 6) Fa Ac (D 7) Fa 24 8) Fa | acility Const acility Physic stual FCI = escribe) De acility - Inter 1/30/12 acility - Curr laster Plan S | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time ent Replacement | Facility C <u>Targeter</u> ast physi (s) of Op Value \$ e or more | Condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> e of the follow | ex (FCI) Num) e in 2009. rs/Day, Days 9 /ing: | nber Date | | |
| 5) Fa 6) Fa Ac (D (D 7) Fa 24 8) Fa 9) M | acility Const acility Physic stual FCI = escribe) De acility - Inter 1/30/12 acility - Curr laster Plan S | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time ent Replacement Status - Check on | Facility C Targeted ast physi (s) of Op Value \$ e or more ess than t | Condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> e of the follow five (5) years | ex (FCI) Num) e in 2009. rs/Day, Days 9 /ing: | nber Date | | |
| 5) Fa 6) Fa Acc (D (D 7) Fa 24 8) Fa 9) M a) | acility Const acility Physic stual FCI = escribe) De acility - Inter 1/30/12 acility - Curr laster Plan S Faci X Faci | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time ent Replacement Status - Check one ity 'useful' life is le | Facility C Targeted ast physi (s) of Op Value \$ e or more ess than the | condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> e of the follow five (5) years a five (5) years | ex (FCI) Num) e in 2009. rs/Day, Days 9 ving: s. | nber Date | | |
| 5) Fa 6) Fa Ac (D (D (24 8) Fa 9) M a) b) | acility Const acility Physic stual FCI = escribe) De acility - Inter 1/30/12 acility - Curr laster Plan S Faci X Faci Mas Majo next | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time ent Replacement Status - Check on- ity 'useful' life is le ity 'useful' life is n | Facility C Targeted ast physi (s) of Op Value \$ e or more ess than t nore than e; Last D renovati , please | condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> e of the follow five (5) years of the follow five (5) years of the Approved ions, or progr explain below | ex (FCI) Num e in 2009. rs/Day, Days ning: s. d (by OSPB/ am revisions | nber Date s/Month /CDHE) s are on | , Months/Yea | ar) |
| 5) Fa 6) Fa Acc (D (D (D (D (D (D (D (D (D (D | acility Const acility Physic stual FCI = escribe) De acility - Inter 1/30/12 acility - Curr laster Plan S Faci X Faci Mas Majo next may | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time ent Replacement Status - Check on- ity 'useful' life is le ity 'useful' life is n ter Plan is obsolet or facility changes, five years, (If yes have an impact o | Facility C Targeted ast physi (s) of Op Value \$ e or more ess than t nore than e; Last D renovati , please | condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> e of the follow five (5) years of the follow five (5) years of the Approved ions, or progr explain below | ex (FCI) Num e in 2009. rs/Day, Days ning: s. d (by OSPB/ am revisions | nber Date s/Month /CDHE) s are on | , Months/Yea | ar) |
| 5) Fa 6) Fa Ac (D (D (D (D (D (D (D (D (D (D | acility Const acility Physic stual FCI = bescribe) De acility - Inter 4/30/12 acility - Curr laster Plan S Faci X Faci Mas Majo next may | ruction (Type) cal Condition and 71 sk audit in 2015, I nsity of Use, Time ent Replacement Status - Check on- ity 'useful' life is le ity 'useful' life is n ter Plan is obsolet or facility changes, five years, (If yes have an impact o | Facility C Targeted ast physi (s) of Op Value \$ e or more ess than bore than e; Last D renovati , please on n this CM | condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> e of the follow five (5) years five (5) years a five (5) years bate Approved ions, or progress a request.) | ex (FCI) Num e in 2009. rs/Day, Days rs/Day, Days d (by OSPB/ am revisions r if these fac | nber Date s/Month /CDHE) s are on | , Months/Yea | ar) |
| 5) Fa 6) Fa Acc (D (D (D (D (D (D (D (D (D (D | acility Const acility Physic stual FCI = escribe) De acility - Inter 4/30/12 acility - Curr laster Plan S Faci X Faci Mas Majo next may Facility Aud a) Facility | ruction (Type) cal Condition and 71 sk audit in 2015, I sk audit in 2015, I status of Use, Time ent Replacement Status - Check on ity 'useful' life is n ter Plan is obsolet or facility changes five years, (If yes have an impact o it Survey: | Facility C <u>Targeted</u> ast physi ast physi (s) of Op Value \$ e or more ess than the renovati please on this CM cluded an | condition Inde d FCI = 100 cal audit done eration: (Hou <u>16,378,299</u> e of the follow five (5) years of the follow fire (5) years of the follow fire (5) years of the follow fire (5) years fire (5) years of the follow fire (5) years of the follow fire (5) years of the follow fire (5) years fire (5) years f | ex (FCI) Num e in 2009. rs/Day, Days rs/Day, Days d (by OSPB/ am revisions r if these fac | nber Date s/Month /CDHE) s are on | , Months/Yea | ar) cipated in the rogram revisio |

 List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No. M12-008 Project Title Fire Sprinkler Installation, Glover Building Completion date or status 12/2013

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

 Narrative Description of CM Problem (Initial problem and solution by phase):
 Failed roof with multiple patches that is in need of total replacement. Roof does not have proper drainage due to low areas and damaged insulation. In addition, HVAC roof curbs must be raised to meet current code requirements. This is a high roof replacement priority for main campus.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$827,626

3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

This building houses the central telecom switchgear for main campus as well as classrooms and laboratories. High intesity engineering research projects with extremely expensive research equipment are housed in the building and roof leaks have damaged laboratory equipment. There is a a high likelihood of larger problems as roof continues to deteriorate. There is no available engineering laboratory space to relocate programs to on campus, and central telecom switchgear cannot be relocated without significant cost. Loss of telecom switchgear would cause significant loss of use across main campus.

- 4) **Mandatory** Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

Roof condition is a significant component of the audit score and replacement will bring the condition index up significantly.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

| 1) Approved By | Mike Rush | 2) Phase? | 1 of 1 | |
|----------------------|-----------|-----------------------------------|--------|--|
| 3) Method and Date o | fEstimate | Remodel and Construction Services | | |

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|--|----------|
| Arch/Eng/Basic Services: | 53,485 |
| Code Review/Inspection: | 2,342 |
| Other (Explain): PM fee | 28,000 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$83,827 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM (Labor/Material/Equipment) | <u>UNIT</u> sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|---|---------------------------------|-----------|---------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| b) Site Improvements: | | | |
| Structure/Systems/Components | 33,428 sf | \$17/sf | 568,276 |
| Structure/Systems/Components | 00,420 01 | | |
| | | | |
| Other(explain): | | | |
| | | | |
| Contractor's General Conditions: | | | 49,779 |
| Contractor's Overhead & Profit: | | | 50,505 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | | | \$668,560 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 33,428 | |
|---|---------|--|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | \$20/sf | |

6) Miscellaneous (explain)

| Total of Miscellaneous Costs: | | \$ |
|-------------------------------|--|----|

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 75,239 | |
|--|--------|--|
| improvements, and miscellaneous costs.) | | |

| 1 8) Total Cost of the Project (single phase) of rotal for the opcome rinded of an professional | \$827,626 |
|---|-----------|
| services (4), construction improvements(5), miscellaneous costs(6), and project | |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.

E. PROPOSED PHASING

PRIOR PHASING¹

| Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|--------------|--|---|
| FY 2013/2014 | | |
| FY 2014/2015 | | |
| FY 2015/2016 | | |
| FY 2016/2017 | | |
| | FY 2013/2014 FY 2014/2015 FY 2015/2016 | Work FY 2013/2014 FY 2014/2015 FY 2015/2016 |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount |
|-------------|--------------|---------------|--------------------------|
| IVI# | | | (Per Detailed Budget) |
| | FY 2017/2018 | 1 of 1 | 827,626 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$ |

TOTAL PROJECT DOLLAR AMOUNT

\$827,626

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List <u>all previous phases with actual appropriation by year (include federal funding)</u>. Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|-----------|------------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | May 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |

\$



AT COLORADO STATE UNIVERSITY

REMODEL SERVICES BUDGET OPINION

This Budget Opinion is for budgetary purposes only. Prices may change after design is complete

| To: | Steve Hulti Facilities M 970-491-000 132 Facilitie | anagement | | Project #: | 02/15/ 160215 6030 5/15/2 | 5A |
|---------------|---|--|---------------|---------------------|------------------------------------|------------|
| Barry Willier | 491-6567 | Project file Glover New Roof | | | | |
| | | | | | | |
| 1.00 | RCS | Remove and dispose of existing roof system down to roof deck. | \$ 668,560.00 | | | 668,560.00 |
| | | Install new roofing system including tapered insulation and | | | | |
| | | membrane with 1/4 in. per foot slope for adequate drainage to meet | | | | |
| | | current code requirements. (The existing roof does not have proper | | | | |
| | | drainage due to low areas and damaged insulation.) Retrofit and raise | | | | |
| | | HVAC roof curbs to meet current code requirements. Curbs to be | | | | |
| | | raised to a minimum 8 inches above finished roof. | | | | |
| | | **The scope of the roof replacement is divided into 8 sections. | | | | |
| | | This budget opinion includes the price to replace all 8 roof sections. | | | | |
| | | Individual sections may be funded separately if necessary at | | | | |
| | | approximately \$20 per square foot of roof area. | | | | |
| | | | | | | |
| | | | Со | nstruction Subtotal | | 668,560.00 |
| | | | | Contingency | | 66,856.00 |
| | | | | Design Fees | \$ | 53,484.80 |
| | | | | Code Review Fees | | 2,341.97 |
| | | | | t Management Fees | | 54,153.36 |
| | | | | Advertisement Fees | 5 | |

Total \$ 845,396.13

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

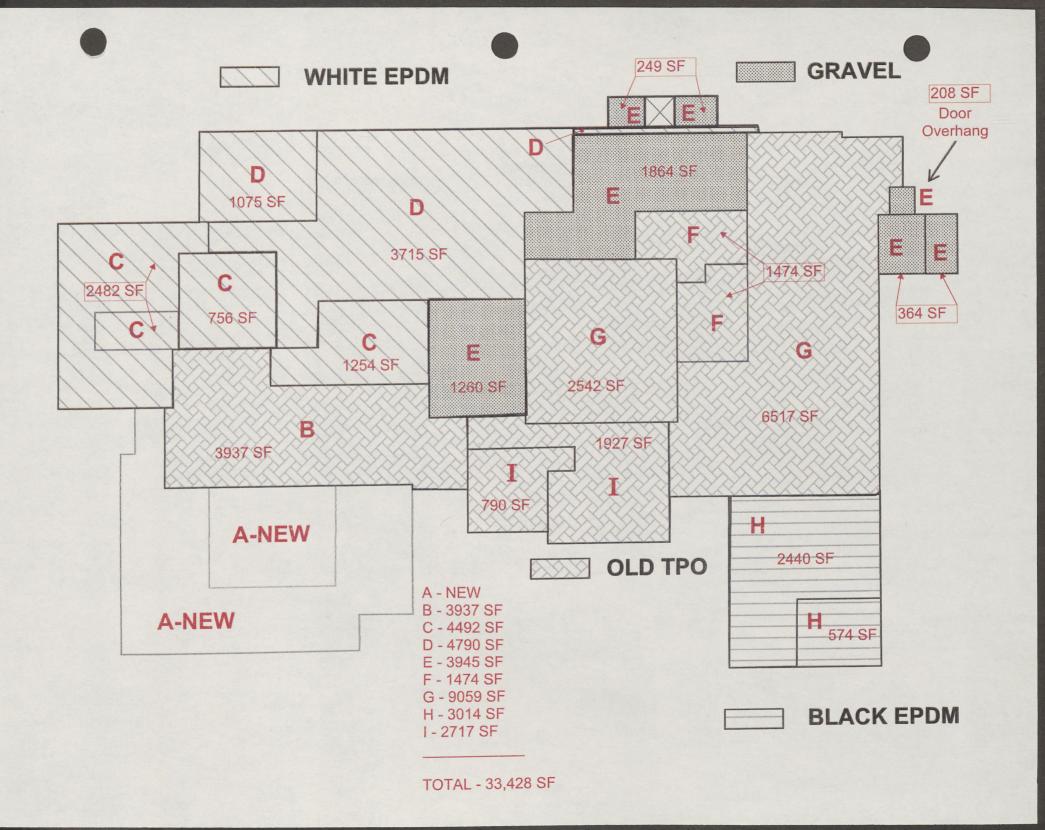
Budget Opinion is for this project only and is subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included.

2. Asbestos or Lead hazard assessment or abatement is not covered unless stated

3. This quote does not cover the activation of phone and data lines; customer will need to contact Telecom to activate lines

To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please process a Kuali WOA. Thank You For Your Business \$ 82,903.45



2.

Facilities Audit Program Building Summary

| Building Name: Engineering | g South/Glover | <i>Number:</i> 0088 |
|----------------------------|---------------------------|-------------------------|
| Construction Date: 1950 | Gross Square Feet: 52,823 | Net Square Feet: 45,202 |
| Date of Audit: 11/30/2009 | Cycle: 7 Phase: 1 No. o | f Stories: 2 |
| Classification: M120 Class | room, 2-3 Story SBP Clas | ss: 12 Engineering |
| Replacement Cost: \$9 017 | 572 80 Cost Per SF: | \$170.71 |

| Component | Total Rating | Multiplier Used | Component Deficiency | Renewal Cost |
|------------|-----------------|--------------------|-------------------------|-----------------|
| Foundation | 0.1000 | 0.02 | 0.0020 | \$18,035.15 |
| Ext Walls | 0.1000 | 0.04 | 0.0040 | \$36,070.29 |
| Floors | 0.1500 | 0.12 | 0.0180 | \$162,316.31 |
| Roof | 0.2500 | 0.05 | 0.0125 | \$112,719.66 |
| Ceiling | 0.1000 | 0.04 | 0.0040 | \$36,070.29 |
| Int Walls | 0.1000 | 0.06 | 0.0060 | \$54,105.44 |
| Windows | 0.1250 | 0.03 | 0.0037 | \$33,815.90 |
| Doors | 0.1000 | 0.04 | 0.0040 | \$36,070.29 |
| Cool Vent | 0.3200 | 0.09 | 0.0288 | \$259,706.10 |
| Heat | 0.2500 | 0.08 | 0.0200 | \$180,351.44 |
| Plumbing | 0.2100 | 0.07 | 0.0147 | \$132,558.32 |
| Electrical | 0.2210 | 0.11 | 0.0243 | \$219,217.19 |
| Safety | 0.1000 | 0.01 | 0.0010 | \$9,017.57 |
| AE/OP | 0.1431 | 0.18 | 0.0258 | \$232,209.72 |

Component Deficiency Total: 0.16

0.1688

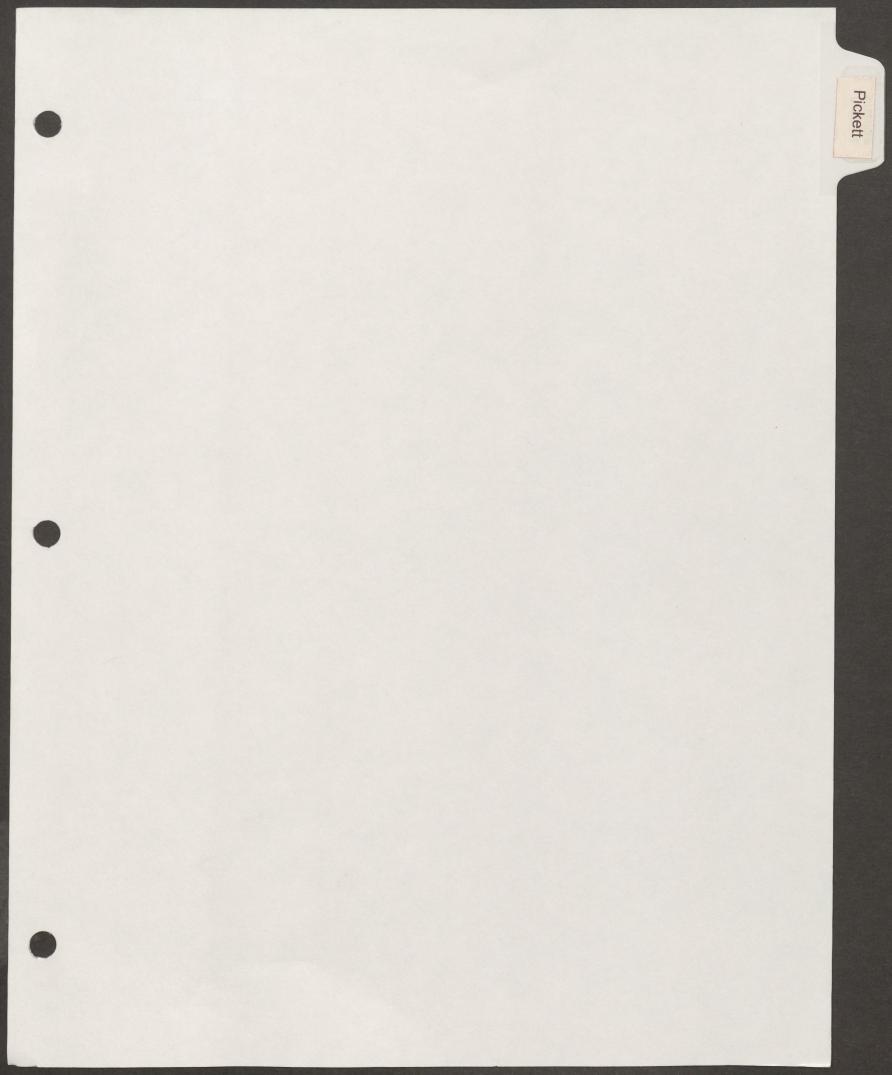
Outstanding Maintenance: \$1,5 Facilities Condition Index (FCI):

\$1,522,263.69 83.12

FCI = (1-Component Deficiency Total) x 100 AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)



Wednesday, June 15, 2016



Page 1 of 5

| A. AG | ENCY BASIC DATA: | | |
|--------------------|--|-----------------------------------|--|
| X | Controlled Maintenance | Capital Renewal Bu | ilding/Infrastructure Request |
| | Request | HPCP required in C | apital Renewal Request (Y/N) |
| | | (on CC-A specify HP | • |
| 1) Age Institut | | niversity Fort Collins | |
| Execut | | 2 | |
| Directo Signati | | Date Date | 7-22-16 |
| | ncy ID No. | | Project M # |
| | ncy Priority # 1 | | |
| | | alls on Pickett Center, 2 phases | |
| 0,110, | | | |
| B. FAC | ILITY PROFILE | | |
| 1) Fac | ility Type Site (Utilities | underground) | |
| | or Site (Impr | ovements above ground) | |
| | X or Building N | lame (s) BW Pickett Equin | e Center |
| | Risk Mgmt. I | Bldg(s) ID# | |
| 2) Fac | ility Location Foothills Carr | npus | |
| | ility Area/Age GSF 85,15 | | Date Built 1986 |
| 4) Fac | ility Functional Use/Occupanc | :у | |
| | ility Construction (Type) | | |
| | | acility Condition Index (FCI) Nun | |
| | | argeted FCI = 100 | Date of Last Audit 2015 |
| (Des | scribe) Desk audit based on re | ecent engineering inspection of t | facility. |
| | | | |
| | | | |
| | | | |
| 7) Fac | ility - Intensity of Use, Time(s |) of Operation: (Hours/Day, Days | s/Month, Months/Year) |
| 8/25 | /12 | | |
| 8) Fac | ility - Current Replacement Va | alue \$16,231,204 | |
| 9) Mas | ster Plan Status - Check one o | or more of the following: | |
| a) | Facility 'useful' life is less | s than five (5) years. | |
| b) | X Facility 'useful' life is mo | | |
| c) | | Last Date Approved (by OSPB/ | (CDHE) |
| d) | Major facility changes, re | enovations, or program revisions | s are ongoing or anticipated in the |
| | next five years, (If yes, p may have an impact on | | ility renovations or program revisions |
| 10) Fa | acility Audit Survey: | | |
| a) | | ided and submitted to SBP - | Date |
| b) | Status of the Infrastructure | | % Completed |
| c) | Facility Audit Survey Cycle | | |
| -) | , , , | | |

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | Project Title | date or status |
|-------------|---------------|----------------|
| | | |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request.

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Beginning in the year 2000 vertical cracking was observed in the brick walls at each side of many of the expansion/control joints. Cracking has also been observed in the brick above and at each end of the windows in the clerestories at the roof steps. Water testing has confirmed that water is able to enter the building through the cracks and the cracking has escalated to the point that pieces of brick have loosened and are occasionally falling to the ground. There is a safety hazard to students, faculty, staff and the general public (as the arena is also rented out for public events). The university contracted with Wiss, Janney, Elstner Associates (WJE) to evaluate the underlying cause of the cracking and to recommend solutions. Their report determined that chloride was added to the mortar during building construction (known to occur during winter construction). The high concentration of chloride overcomes the corrosion protection normally provided by the highly alkaline environment of Portland cement based mortars. Reinforcing bars and wire exhibit moderate corrosion and the expansive forces caused by the corrosion byproduct are responsible for the cracking. The west and northwest walls are in the worst shape and would be part of phase 1.

- 2) Total Project Cost Estimate (From Cost Breakdown) \$ \$1,954,714
- 3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The cracking is accelerating due to the infiltration of water at the cracks, allowing a direct path to the reinforcing bars. Continued significant deterioration is expected, which will increase the danger from falling pieces of brick. The university could suffer loss of use of this facility if forced to shut down due to safety concerns. The arena facility is crucial to the Equine Sciences program.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This project will replace the brick in kind, in a phased approach that will minimize disruption to the Equine Sciences program. The underlying cause of the problem (chloride in the mortar) will be eliminated with a rebuilt wall.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

- 1) Approved By Mike Rush 2) Phase? 1 of 2
- 3) Method and Date of Estimate WJE cost estimate escalated by 5% from 2012 to 2017

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|---|-----------|
| Arch/Eng/Basic Services: | 135,826 |
| Code Review/Inspection: | |
| Other (Explain):project management fee (phase 1) and ads | |
| Inflation percentage amount: (required for each out year phase) | |
| Total of Professional Services: | \$135,826 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM | UNIT | UNIT COST | EXTENDED COST |
|--|------------------|-----------|---------------|
| (Labor/Material/Equipment) | sf, cf, lf, etc. | | |
| Infrastructure | | | |
| a) Utility Services: | | | |
| b) Site Improvements: | | | |
| Structure/Systems/Components | | | |
| New windows and doors | | | 114,253 |
| New Brick walls | 9,375 sf | \$44.69 | 418,969 |
| Other(explain): | | | |
| Demo existing brick | 9,375 sf | \$14.80 | 138,750 |
| Contractor's General Conditions: | | | 53,755 |
| Contractor's Overhead & Profit: | | | 47,036 |
| Inflation percentage amount: (required for each out year phase) 3% | | | |
| Total of Construction Improvement Costs: | | | 772,763 |

| 5a | a) Total square feet/lineal feet of Construction Improvement area: | 9,375 |
|----|--|----------|
| 5b | b) Overall cost per square foot/lineal foot of construction Improvement: | 82.43/sf |

6) Miscellaneous (explain)

| | and the second states of | |
|-------------------------------|--------------------------|----|
| Total of Miscellaneous Costs: | | \$ |

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | \$90,859 |
|--|----------|
| improvements, and miscellaneous costs.) | |

| 8) Total Cost of the Project (single phase) or Total for this specific Phase of all | \$999,448 |
|---|-----------|
| professional services (4), construction improvements(5), miscellaneous | |
| costs(6), and project contingency(7) | |

| 1) Approved By | Mike Rush | 2) Phase? 2 of 2 |
|----------------|-----------|------------------|
| | | |

3) Method and Date of Estimate WJE cost estimate escalated to 2018

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|---|----------|
| Arch/Eng/Basic Services: | |
| Code Review/Inspection: | 2,644 |
| Other (Explain):project management fee (phase 1) and ads | 67,913 |
| Inflation percentage amount: (required for each out year phase) | |
| Total of Professional Services: | \$70,557 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM | UNIT | UNIT COST | EXTENDED COST |
|--|------------------|---------------|-----------------------|
| (Labor/Material/Equipment) | sf, cf, lf, etc. | Call Services | and the second second |
| Infrastructure | | | |
| a) Utility Services: | | | |
| | | | |
| b) Site Improvements: | | | |
| | | | |
| Structure/Systems/Components | | | |
| New windows and doors | | | 114,253 |
| New Brick walls | 9,375 sf | \$44.69 | 418,969 |
| Other(explain): | | | |
| Demo existing brick | 9,375 sf | \$14.80 | 138,750 |
| | | | |
| Contractor's General Conditions: | | | 53,755 |
| Contractor's Overhead & Profit: | | | 47,036 |
| Inflation percentage amount: (required for each out year phase) 3% | | | 25,104 |
| Total of Construction Improvement Costs: | | | 797,867 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 9,375 |
|---|----------|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | 85.11/sf |

6) Miscellaneous (explain)

| Total of Miscellaneous Costs: | and the second second | \$ |
|-------------------------------|-----------------------|--------|

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | \$86,842 |
|--|-------------------|
| improvements, and miscellaneous costs.) | and the second of |

| | \$955,266 |
|--|-----------|
| professional services (4), construction improvements(5), miscellaneous | |
| costs(6), and project contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |
| | | (Subtotal) | \$ |

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 2 | 999,448 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | 2 of 2 | 955,266 |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$955,266 |

TOTAL PROJECT DOLLAR AMOUNT

\$1,954,714

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List <u>all previous phases with actual appropriation by year (include federal funding)</u>. Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE 1 | FROM | то |
|---------------------------------------|-------------|-----------|
| 1. Pre-Design (Insert Dates) | Done by CSU | |
| 2. Design (Insert Dates) | July 2017 | Sept 2017 |
| 3. Construction (Insert Dates) | April 2019 | Oct 2019 |
| 4. Project Close-out/Final Completion | | |



| | | | | 1 | Date: | 09/06/12 |
|---|---|---|--|--|---|--|
| | A. Stabilize Existing Brick | R Stabilize and Overality talening | C1 New EIPS | C2 Mey Bick | C.3 New Metal Panel | C4 New Preast Panels |
| System Description (Figures) | Retrofit brick with new stabilization straps/anchors & coat brick with elastomeric coating A-1 to A-3 | Remotel brick with new stabilization straps/anchois & overedatabrids with new SHS /B 1/g P 3 | Rentové existing brick & reclad EIFS over new h. gage metal studs C111 & C13 | Remove existing brick & replace in kind with new brick C2 I mC2- 5 | Remove existing brick & rectad with dew aluminum panels on new studs CB- 1 to C3-3 | Remove existing brick and redad with new precise concrete wall panels C-1-1 w C-1-3 |
| Eliminates Source of Brick Cracking | No | o No | Ŷes | Yes | Yes | Yes |
| Aesthetic Change | Minimal | Yes | Yes | Minimal | Yes | Yes . |
| Thermal Improvement | None | Yes, Provided by EIFS overcladding | Yes Provided by EIFS | Optional, Spray foam on inside face | Yes, insulated panel | Yes, insulated panel |
| Resistance to Impact | high | lonv | low | high | low | high |
| Workmanship Dependency | high - restoration contractor | high - restoration contractor | moderate | moderate | high | moderate |
| Sealant Joint Maintenance | 10-15 year replacement | 10-15 year replacement | 10-15 year replacement | 10-15 year replacement | 7-10 year replacement | 10-15 year replacement |
| System Maintenance | periodic cleaning; re- paint in 10-15 years | periodic cleaning; re-paint in 15 years | periódic cleaning, re- paint in 15 years | periodic cleaning: repoint mortar joints in 35 years | periodic cleaning | periodic cleanin |
| Impact on occupancy during installation | Moderate (drilling for anchors) | Moderate | High - requires demolition of existing brick | High - requires demolition of existing brick | High - requires demolition of existing brick | High - require demolifion of existing brick |
| Estimated Service Life | Will extend life of existing panels for unknown duration | Will extend life of existing panels for unknown duration | Commentation and the second second second | Over 50 years | 20 - 23 years | Over 50 years |
| Estimated Repair Cost | \$991,875 | 1,423,125 | \$1,523,750 | \$1,610,000 | \$2,303,975 | \$2,386,250 |
| Consultant Design Fees | \$15,000 | | | \$15,000 | \$35,000 | |
| Contingency | \$100,688 | | | \$162,500 | \$233,898 | |
| Code Review | \$3,283 | | the start start | \$4,426 | \$5,747 | |
| Inspections | \$2,000 | | and the man and | \$2,000 | \$2,000 | And Article |
| PM Fees | \$50,344 | | | \$48,750 | \$46,760 | |
| Advertisement | \$600 | | And a second | \$600 | \$2,627,999 | |
| Total | \$1,163,789 | | and the second second | \$1,843,276 | \$2,021,757 | |



Steve Hultin, P.E., Director Facilities Management, 6030

(970) 491-0007

Remodel Services

To:

Facilities Service Center North

Budget Opinion

This is document is for budgetary consideration only. Price may change after design is completed. Date: Project #: Customer ID# Expiration Date: 09/06/12 100525A 6030 12/5/2012

| P.M. | Phone F | Protect title | | And Service of the | | |
|---|---|--|---|---------------------------------------|-------------|----------------------------------|
| Steve Kellums | 491-0249 | Equine Center, Building 1330, Option C.2: Remove Exterior Mas | sonry. Install N | ew Masorry | | |
| Steve Kendinis | 556-7384 | | | | 20:35:00.08 | |
| Quantity | Labor Material | Description | unit Price | ess received | ALLE | TOPES |
| and the second second | | Option C.2: Remove Existing Masonry. Install New | - | | la series | |
| $eq:static_stat$ | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Consultant Design Fees: | - 1 manufacture advector a second | | | 15 000 0 |
| 1.00 | Design | Provide Construction Documents and Specifications | \$ 15,000.00 | | \$ | 15,000.00 |
| 1.00 | 200.81 | for the removal of the existing masonry and the | | | | |
| an a | an a | installation of new masonry with proper connections. | an and an annual strong | · · · · · · · · · · · · · · · · · · · | | متدردهان معتقدين راري |
| and the second second second second | | Provide CD's for Design-Bid-Build Project Delivery. | | | | en en en en en en en entre en en |
| terreter y and by things to a first of the second second second | | Does not include construction administration or | | | | 10-5-6 1-10-1 - 6-1-1-1-1 |
| and a second | a a transformation and the second | site observations. | | | in. | and and a company of |
| | $= \sum_{\substack{i=1,\dots,n\\j=1}^{n}} (a_i \cdots a_{i-1}) (a_{i-1} \cdots a_{i-1}) (a_$ | Demo and Masonry Contractors: | | | | - minerary |
| 1.00 | Lab & Mat | Remove and dispose of the existing masonry veneer. | \$1,610,000.00 | | \$ | 1,610,000.0 |
| 1.00 | LaD & Mat | Furnish the materials, means and methods necessary to | and the same of a first set of the set | | | der genereter |
| National and the second | and the second | complete the installation of the new reinforced | an she was a same and a feature of a same of a same | | | Service of the same |
| | | | | | | |
| | anna a sata sa ana ana ana | masonry walls. | | | | |
| | | and the complete strategies and the second s | and the second second second second | | | |
| a an | | an general constants of a statement of the statement of the state of the statement of the s | Cons | truction Subtotal | \$ | 1,625,000. |
| Annual and the part of the second contract of the second | | ter den en e | | Contingency | \$ | 162,500. |
| · | an franciska se | Design fees | | See Above | | |
| | | Third Party Code Review | | a second a second a second a | \$ | 4,426 |
| | | Quality Assurance Inspections | | | \$ | 2,000 |
| ; | | Quanty Assurance Inspectione | PM Fees | · | \$ | 48,750 |
| | | the second big and reasonably apparent from our initial | Advertisemen | t fees | \$ | 600 |
| This magnitude of investigation. It is | of cost is based on s possible that unl | information which is now known and reasonably apparent from our initial snown conditions, a more detailed analysis, changes in scope and the bidding process | | Tota | 1 \$ | 1,843,276 |
| and anne alle | tantial changes in | this estimate. This is a preliminary cost opinion; do not send a KFTD/WOA for int. Read in RED below: | | | the state | and the second second |
| | | t named and is subject to the conditions noted below: | | | | |
| 1' (h | I abalyon or files | prior to moving is not included. | | | | |
| 2. Asbestos or Le | ead hazard assess | tivation of phone and data lines. The customer | | | | |
| | | please issue a (KFTD) for the amount shown in red to the | | | | |
| If you wish | amount is fi | please issue a (KT1D) for and 1/2 the PM fees. Please send | | | | |
| WTED to Fa | cilities -6030 | to the attention of Kathy Drady. | | | 4 | \$ 43,801 |
| State Purcha | asing Regulat | ions require all single Purchase orders over \$50,000 | | | | |
| be advertise | ed before pay | ment can be made to the contractor. | | | | |
| | | Thank you for your business! | | | | |



Steve Hultin, P.E., Director Facilities Management, 6030

132 Facilities Services North

(970) 491-0007

Remodel Services

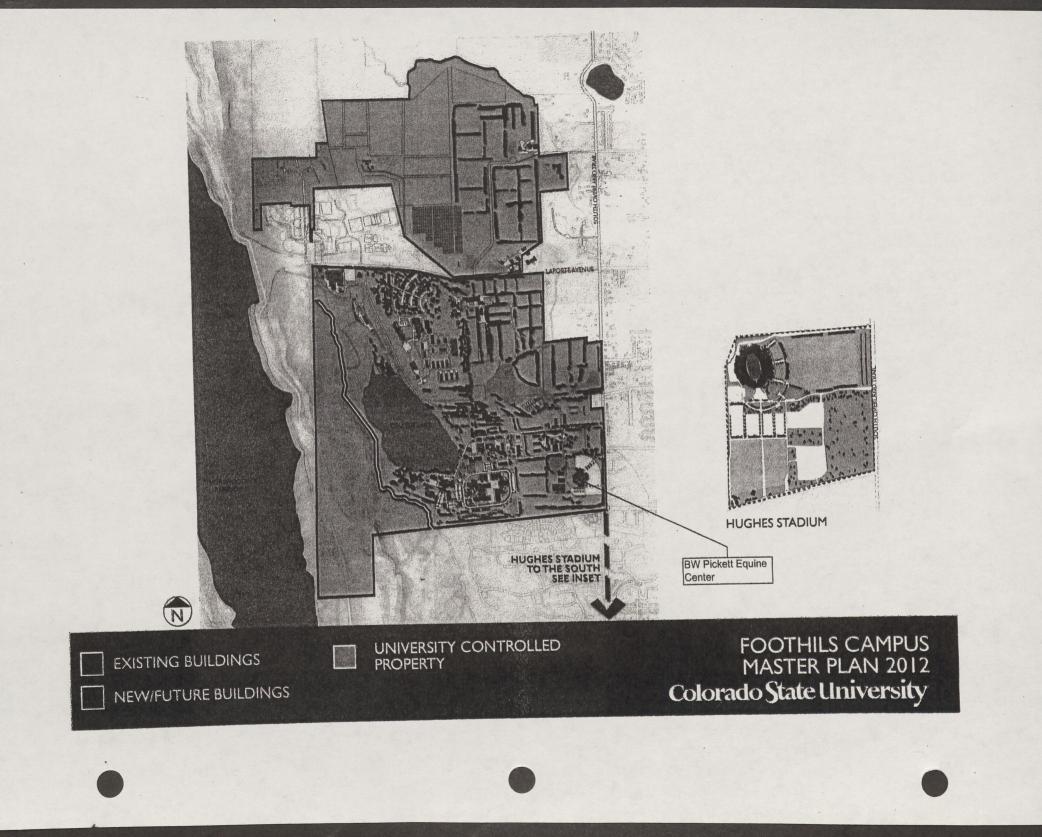
To:

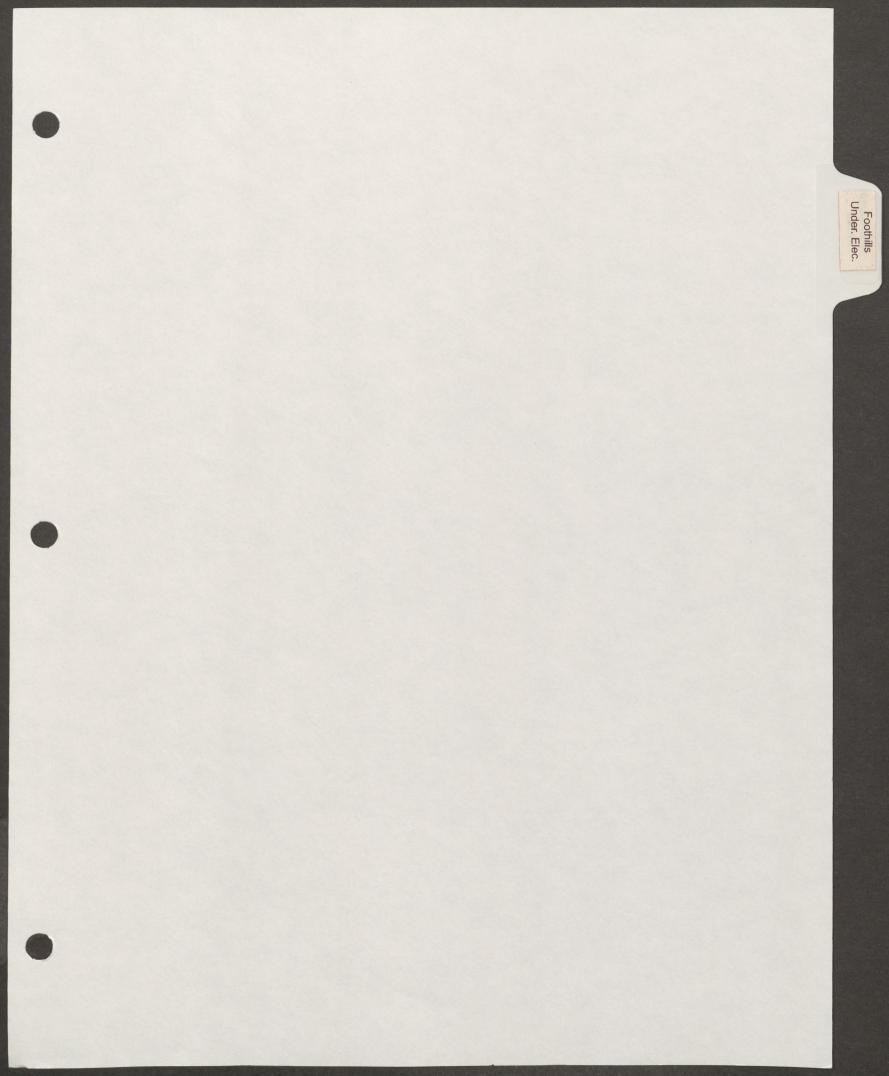
Pacilities Service Center North

Budget Opinion,

This is document is for budgetary consideration only. Price may change after design is completed. Date: Project #: Customer ID# Expiration Date: 09/06/12 100525A 6030 12/5/2012

| Steve Kellums | 491-0249 | Equine Center, Building 1330, Option A: Exterior Masonry Sta | bilization and Retrofit. | and the second |
|---|-----------------------------------|--|---|---|
| a se a conserva de conserva de la servera de la server | 556-7384 | | | ามการกระวะของเหตุสายเสราะสายเรื่องเป็นระวะสายเสร |
| Quantity | Labor Water of | Description | Unit Price / Less received | Line Total |
| and for the second second second second | Girderingen untergrade | Option A: Stabilize Existing Masonry in Place. | | and a second |
| a national contraction of the part of the second of | | Consultant Design Fees: | | والمراجع وال |
| 1.00 | Design | Provide Construction Documents and Specifications | \$ 15,000.00 | \$ 15,000.00 |
| - Andrewski (* 1997) - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 | | for the installation of the required retrofit items, | / | and the state of the |
| and a second | | including stabilization straps, anchors and elastomeric | | han a sugar a set |
| hannen i an eine eine eine eine eine eine | - The second of the second of | coatings. Provide CD's for Design-Bid-Build Project | | |
| an and the second s | | Delivery. Does not include construction | | |
| an a | | administration or site observations. | | |
| an a | An an an an and the second second | Restoration Contractor: | Been provident to produce and a final providence of the product of the providence of the product of t | |
| .00 | Lab & Mat | Furnish the materials, means and methods necessary to | \$ 991,875.00 | \$ 991,875.0 |
| | | complete the stabilization of the existing masonry and | and a second | and a second a second second second second |
| | 1 | retrofit masonry with straps, anchors and elastomeric | | and the second se |
| and a star and a star for the | | coating. | | and the second second second second |
| | | the second s | 1 | |
| | | | and the second second | and the second and an and the second s |
| aceperature and a second s | | for an a second se | Construction Subtotal | \$ 1,006,875.0 |
| | | the second se | Contingency | \$ 100,687.5 |
| | | Design fees | and the second sec | |
| | | Third Party Code Review | the second s | \$ 3,282.7 |
| | | Quality Assurance Inspections | / | \$ 2,000.0 |
| | | the second for a second for a second se | PM Fees | \$ 50,343.7 |
| This magnitude of | cost is based on in | formation which is now known and reasonably apparent from our initial | Advertisement fees | \$ 600.0 |
| importion It is a | ossible that unknow | www conditions, a more detailed analysis, changes in scope and the bidding process is estimate. This is a preliminary cost opinion; do not send a KFTD/WOA for | Tota | 1 \$ 1,163,788.9 |
| construction based | upon this amount | . Read in RED below: | | - Landard - V |
| This is a cost opinio | on for the project n | amed and is subject to the conditions noted below: | | |
| 1. Packing of book: | shelves or files priv | or to moving is not included. It or abatement is not covered unless stated | | |
| 3. This quote does a | not cover the activation | ation of phone and data lines. The customer | · | |
| will need to contact | Telecom to activa | te phone and data services. lease issue a (KFTD) for the amount shown in red to the | | |
| if you wish u | proceed, p | design, code review and 1/2 the PM fees. Please send | | |
| KTED to Faci | lities -6030 t | o the attention of Kathy Brady. | | \$ 43,454.5 |
| State Purchasi | ng Regulation | ns require all single Purchase orders over \$50,000 | | L |
| be advertised | before payme | ent can be made to the contractor. | | |
| | 1 | Thank you for your business! | | |
| | | | | |
| | / | 251 Edison Dr., Fort Collins, CO 80523-603 | 0 | |





Page 1 of 4

| Controlled Maintenance Request | | Iding/Infrastructure Request apital Renewal Request (Y/N) |
|--|---|--|
|) Agency / Colorado State Univer Institution | sity Fort Collins | |
| 2) Executive | and service and services and | |
| Director | 11_0 | Data 7 22 11 |
| Signature | terty | Date 7-22-16 |
| 3) Agency ID No. | | Project M # |
| 4) Agency Priority # | | |
| 5) Project Title <u>Underground electric</u> | service-Foothills Campus XC | CEL substation to west meter point |
| FACILITY PROFILE | | |
| 1) Facility Type X Site (Utilities und | leraround) | |
| | | |
| or Building Name | | |
| Risk Mgmt. Bldg | | |
| 2) Facility Location Foothills Campus | | • |
| , i donity Looddon i oodinio odinpao | | |
| 3) Facility Area/Age GSF | ASF | Date Built |
| | ASF | |
| 4) Facility Functional Use/Occupancy | | |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) | | |
| Facility Functional Use/Occupancy Facility Construction (Type) Facility Physical Condition and Facility | | |
| Facility Functional Use/Occupancy Facility Construction (Type) Facility Physical Condition and Facility | y Condition Index (FCI) Num | ıber |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Target | y Condition Index (FCI) Num | ıber |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Target | y Condition Index (FCI) Num | ıber |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Target | y Condition Index (FCI) Num | ıber |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facilit Actual FCI = Targe (Describe) | y Condition Index (FCI) Num eted FCI = | iber Date of Last Audit |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facilit Actual FCI = Targe (Describe) | y Condition Index (FCI) Num eted FCI = | iber Date of Last Audit |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Targe (Describe) 7) Facility - Intensity of Use, Time(s) of 0 24/30/12 | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days | iber Date of Last Audit |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Targe (Describe) 7) Facility - Intensity of Use, Time(s) of O 24/30/12 8) Facility - Current Replacement Value | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ <u>16,378,299</u> | iber Date of Last Audit |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility 6) Facility Physical Condition and Facility 7) Facility - Intensity of Use, Time(s) of 0 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ <u>16,378,299</u> ore of the following: | iber Date of Last Audit |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Targe (Describe) 7) Facility - Intensity of Use, Time(s) of O 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m a) Facility 'useful' life is less that | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ <u>16,378,299</u> ore of the following: an five (5) years. | iber Date of Last Audit |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility 6) Facility Physical Condition and Facility 7) Facility - Intensity of Use, Time(s) of 0 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m a) Facility 'useful' life is less that b) X Facility 'useful' life is more th | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ <u>16,378,299</u> ore of the following: an five (5) years. ean five (5) years. | ber Date of Last Audit |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Target (Describe) 7) Facility - Intensity of Use, Time(s) of O 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m a) Facility 'useful' life is less that b) X Facility 'useful' life is more th c) Master Plan is obsolete; Las | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ <u>16,378,299</u> ore of the following: an five (5) years. to Date Approved (by OSPB/0 | ber Date of Last Audit /Month, Months/Year) |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Targe (Describe) 7) Facility - Intensity of Use, Time(s) of O 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m a) Facility 'useful' life is less that b) X Facility 'useful' life is more th c) Master Plan is obsolete; Las d) Major facility changes, renov | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ 16,378,299 ore of the following: an five (5) years. tan five (5) years. | Date of Last Audit Date of Last Audit Month, Months/Year) |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Targe (Describe) 7) Facility - Intensity of Use, Time(s) of O 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m a) Facility 'useful' life is less that b) X Facility 'useful' life is more that c) Master Plan is obsolete; Las d) Major facility changes, renove may have an impact on this | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ 16,378,299 ore of the following: an five (5) years. tan five (5) years. | ber Date of Last Audit /Month, Months/Year) |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Targe (Describe) 7) Facility - Intensity of Use, Time(s) of O 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m a) Facility 'useful' life is less that b) X Facility 'useful' life is more that c) Master Plan is obsolete; Las d) Major facility changes, renove may have an impact on this | y Condition Index (FCI) Num ated FCI = Operation: (Hours/Day, Days \$ 16,378,299 ore of the following: an five (5) years. than five (5) years. that Date Approved (by OSPB/C vations, or program revisions are explain below if these facil CM request.) | Date of Last Audit Date of Last Audit Month, Months/Year) |
| 4) Facility Functional Use/Occupancy 5) Facility Construction (Type) 6) Facility Physical Condition and Facility Actual FCI = Target (Describe) 7) Facility - Intensity of Use, Time(s) of O 24/30/12 8) Facility - Current Replacement Value 9) Master Plan Status - Check one or m a) Facility 'useful' life is less that b) X Facility 'useful' life is more the c) Master Plan is obsolete; Las d) Major facility changes, renove next five years, (If yes, please may have an impact on this facility Audit Survey: | y Condition Index (FCI) Num eted FCI = Operation: (Hours/Day, Days \$ 16,378,299 ore of the following: an five (5) years. tan five (5) years. t Date Approved (by OSPB/C vations, or program revisions se explain below if these facil CM request.) and submitted to SBP - | ber Date of Last Audit //Month, Months/Year) cDHE) are ongoing or anticipated in the lity renovations or program revision |

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | Project Title | date or status |
|--|---------------|----------------|
| and the second s | | |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

This project will replace 2150 ft of the existing 4/0 overhead 13.2 kV distribution line with 500 kcmil aluminum underground line west from the new XCEL substation to the old XCEL metering point. Project will follow the same route as the existing 4/0 overhead line, and install a new two-way ductbank, 500dcmil aluminum EPR conductor with associated switches and hardware.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$991,928

 Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

8 out of the 17 poles on this line are over 50 years old. The life expectancy of wood poles is normally expected to be 30 years. By placing this line underground, we will be able to eliminate the problems we have with trees growing into the line and animals getting into the line, which will improve reliability.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

CSU has already invested significant funds in placing the overhead electric lines on the Foothills Campus underground. The improved reliability is important to the research facilities on the Foothills Campus.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

| 1) Approved By | Mike Rush | | 2) Phase? | 1 of 1 | 「自己を見た」 |
|--------------------|-------------|-------------------------|-----------|--------|---------|
| 3) Method and Date | of Estimate | FM Engineering Estimate | | | |

| Site Surveys, Investigations, and Reports: | |
|--|----------|
| Arch/Eng/Basic Services: | 60,461 |
| Code Review/Inspection: | 6,266 |
| Other (Explain): PM fee | 10,000 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$76,727 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| <u>WORK ITEM</u> (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|---|--------------------------|---|---------------|
| Infrastructure | | | |
| a) Utility Services: | 2150 | 318.41 | 684,579 |
| | | | |
| b) Site Improvements: | | | |
| Chruchurg /Currence / Company and the | | | |
| Structure/Systems/Components | | | |
| | | 1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 | |
| Other(explain): | | | |
| | | | |
| | | | |
| Contractor's General Conditions: | | | 65,984 |
| Contractor's Overhead & Profit: | | | 74,231 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | | | \$824,794 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 2150 lf | |
|---|----------|--|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | \$383.63 | |

6) Miscellaneous (explain)

| Total of Miscellaneous Costs: | | \$ |
|-------------------------------|--|----|

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 90,407 |
|--|--------|
| improvements, and miscellaneous costs.) | |

8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional services (4), construction improvements(5), miscellaneous costs(6), and project contingency(7) \$

Note: Agency formatted cost estimates may accompany this page.



\$

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT **CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018** STATE BUILDINGS PROGRAM

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 1 | 991,928 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$ |

(Subtotal)

TOTAL PROJECT DOLLAR AMOUNT

\$991,928

(All Prior, Future Phases subtotals and Current Dollar amount)

- ¹ List <u>all previous phases with actual appropriation by year (include federal funding)</u>. Note if different from requested amount.
- ² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|------------|-----------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | _July 2017 | Dec 2017 |
| 3. Construction (Insert Dates) | Jan 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |



FACILITIES OPERATIONS - PROJECT COST OPINION

| PROJECT: | FC - UG North FDI | R N XCEL Sub to Meter Point | | ESTIMATOR: | Michael Randall |
|-----------|-------------------|-----------------------------|-----|-------------|-------------------|
| | | PROJECT NUMBER: | 206 | _ PHASE: | NA |
| BUILDING: | NA | BLDG No. | NA | PRINT DATE: | September 3, 2014 |
| | | | | WO NUMBER: | None |

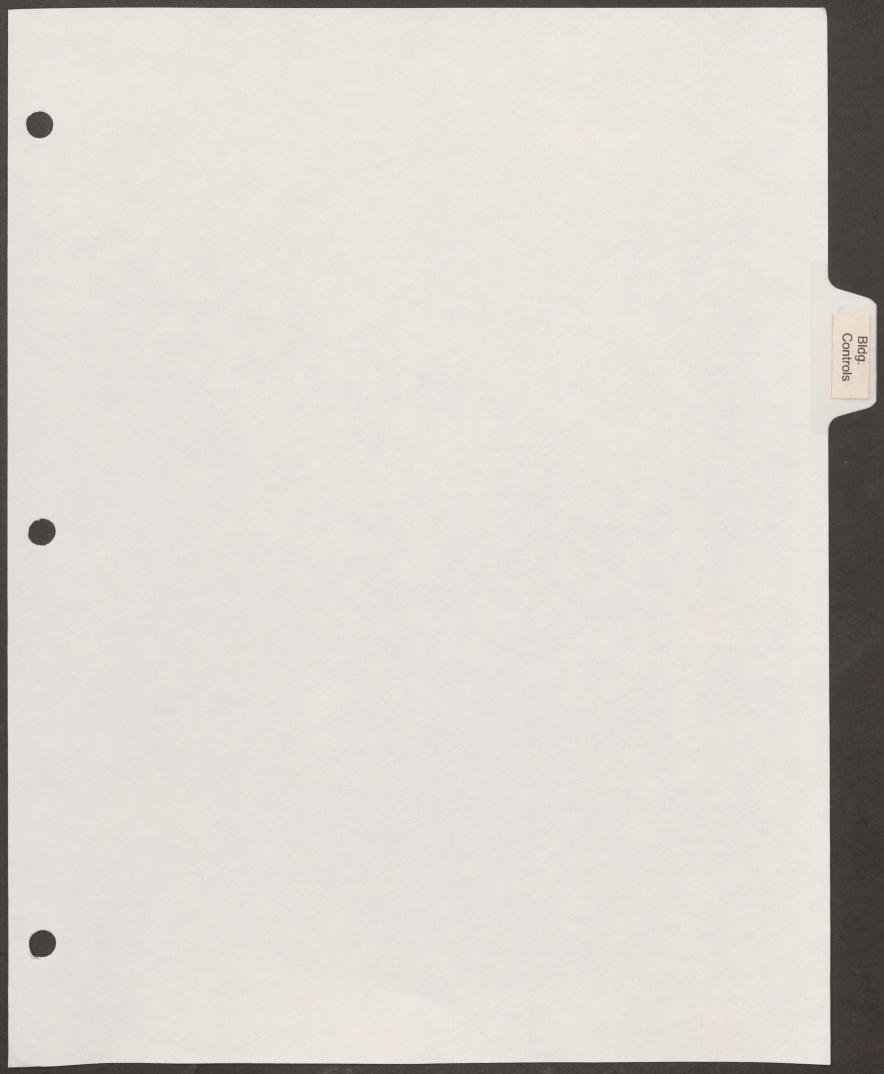
SCOPE: This project would replace 2150 ft of the existing 4/0 overhead 13.2 kV distribution line with 500 kcmil aluminum underground line west from the new XCEL substation to the old XCEL metering point.

| ESTIMATE DATE: June 21, 2013 ESTIMATE LEVEL: Initial Approximation | | | OST PINION |
|---|-----------|-----------------------|------------------------------------|
| CONSTRUCTION C1 Base Contract C2 Site Work C3 Landscape C4 Utilities | | \$ | 806,250 |
| C5 Fixed Equipment C6 Bonding C7 Contingency Total Construction | 2% 10% | \$ \$ \$ | 16,125 82,238 904,613 |
| DESIGN PROFESSIONAL SERVICES D1 Program Planning D2 FM Design | 0% | \$ | |
| D3 Consultants A/E D4 Reimb. Expenses D5 Surveys D6 Soils Tests D7 Const. Testing D8 Test & Belance | 5% | \$ | 40,313 |
| D8 Test & Balance D9 Contingency Total Design | 5% | \$ \$ | 2,016 42,328 |
| EQUIPMENT E1 Moveable Equip E2 Telephones E3 Other Total Equipment | | \$ | - |
| ADMINISTRATION A1 P.M. Fee (Variable Percentage Formula) A2 FM Trade Support A3 Advertising A4 Misc. Expenses | | \$ | 16,773 |
| Total Administration | 1. | \$ | 16,773 |
| MISCELLANEOUS M1 % for Art M2 Inflation Factor M3 3rd Party Review | | \$ | |
| Total Miscellaneous TOTAL PROJECT COST OPINION * | 1 | \$ | 963,700 |

*Cost Opinion - Estimates prepared by Architects/Engineers are to provide guidance for the client.

Margin of error or unknown factors could increase the actual cost by up to 30% or more.

K:\PLANNING\Controlled Maintenance\CM Report for Rod FY 15-16\CMBR docs\substation to west meter\[FC - UG North FDR N. XCEL Sub t



| X Controlled Ma | aintenance Capital Renev | wal Building/Infrastructure Request |
|--|---|--|
| Request | | ed in Capital Renewal Request (Y/N) |
| 1) Agency / Cold | orado State University Fort Collins | |
| Institution | | |
| 2) Executive Director | 110 | |
| Signature | Sattering | Date 7-22-16 |
| B) Agency ID No. | 0 | Project M # |
| 4) Agency Priority # | 1 | |
| 5) Project Title Rep | place obsolete Building Automation Con | ntrol System phase 1 of 1 |
| . FACILITY PROFIL | F | |
| 1) Facility Type | Site (Utilities underground) | |
| | or Site (Improvements above ground) | |
| X | | |
| | Risk Mgmt. Bldg(s) ID# | |
| 2) Facility Location | | |
| | GSF ASF | Date Built |
|) Facility Area/Age | | |
| | Jse/Occupancy | |
| 4) Facility Functional L | | |
| Facility Functional L Facility Construction | п (Туре) | |
| Facility Functional L Facility Construction | | |
| 4) Facility Functional L5) Facility Construction6) Facility Physical Construction | n (Type) | CI) Number |
| 4) Facility Functional L 5) Facility Construction 6) Facility Physical Construction Actual FCI = | n (Type) | CI) Number |
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| 4) Facility Functional L 5) Facility Construction 6) Facility Physical Con Actual FCI = | n (Type) | CI) Number |
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| Facility Functional L Facility Construction Facility Physical Con Actual FCI = (Describe) Yacility - Intensity of | n (Type) | CI) Number Date of Last Audit |
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| Facility Functional L Facility Construction Facility Physical Con Actual FCI = (Describe) Facility - Intensity of 24/30/12 Facility - Current Re | n (Type) ndition and Facility Condition Index (Fo Targeted FCI = f Use, Time(s) of Operation: (Hours/Da | CI) Number Date of Last Audit |
| Facility Functional L Facility Construction Facility Physical Con Actual FCI = (Describe) Facility - Intensity of 24/30/12 Facility - Current Res Master Plan Status | n (Type) ndition and Facility Condition Index (Fo Targeted FCI = f Use, Time(s) of Operation: (Hours/Da eplacement Value \$ NA - Check one or more of the following: | CI) Number Date of Last Audit |
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| a) Facility Functional L b) Facility Construction c) Facility Physical Construction c) Facility Physical Construction c) Facility - Physical Construction c) Facility - Intensity of 24/30/12 c) Facility - Current Residence c) X Facility 'use Physical Construction c) X Facility 'use Physical Construction | n (Type) ndition and Facility Condition Index (For Targeted FCI = f Use, Time(s) of Operation: (Hours/Da eplacement Value \$ NA - Check one or more of the following: eful' life is less than five (5) years. eful' life is more than five (5) years. n is obsolete; Last Date Approved (by | CI) Number Date of Last Audit ay, Days/Month, Months/Year) |
| a) Facility Functional L b) Facility Construction c) Facility Physical Control c) Facility Physical Control c) Facility - Physical Control c) Facility - Intensity of 24/30/12 c) Facility - Current Rest c) Facility - Current Rest c) Facility 'use c) Master Plan Status - Control c) Master Plan Status - Contr | n (Type) ndition and Facility Condition Index (Fo Targeted FCI = f Use, Time(s) of Operation: (Hours/Da eplacement Value \$ NA - Check one or more of the following: eful' life is less than five (5) years. eful' life is more than five (5) years. n is obsolete; Last Date Approved (by ty changes, renovations, or program re- | CI) Number Date of Last Audit ay, Days/Month, Months/Year) OSPB/CDHE) evisions are ongoing or anticipated in the |
| a) Facility Functional L b) Facility Construction c) Facility Physical Control c) Facility Physical Control c) Facility - Intensity of 24/30/12 c) Facility - Current Rest c) Facility - Current Rest c) Facility - Second Secon | n (Type) ndition and Facility Condition Index (For Targeted FCI = f Use, Time(s) of Operation: (Hours/Da eplacement Value \$ NA - Check one or more of the following: eful' life is less than five (5) years. eful' life is more than five (5) years. n is obsolete; Last Date Approved (by ty changes, renovations, or program re- ears, (If yes, please explain below if the an impact on this CM request.) | CI) Number Date of Last Audit ay, Days/Month, Months/Year) OSPB/CDHE) evisions are ongoing or anticipated in the |
| a) Facility Functional L b) Facility Construction c) Facility Physical Construction c) Facility Physical Construction c) Facility - Intensity of 24/30/12 c) Facility - Current Rest d) Facility 'use c) Master Plan Status d) Major facility next five ye may have a c) Facility Audit Surve | n (Type) ndition and Facility Condition Index (For Targeted FCI = f Use, Time(s) of Operation: (Hours/Da eplacement Value \$ NA - Check one or more of the following: eful' life is less than five (5) years. eful' life is more than five (5) years. n is obsolete; Last Date Approved (by ty changes, renovations, or program re- ears, (If yes, please explain below if the an impact on this CM request.) ey: | CI) Number Date of Last Audit ay, Days/Month, Months/Year) OSPB/CDHE) evisions are ongoing or anticipated in the ese facility renovations or program revisior |
| 4) Facility Functional L 5) Facility Construction 6) Facility Physical Con Actual FCI = (Describe) 7) Facility - Intensity of 24/30/12 8) Facility - Current Res 9) Master Plan Status - a) Facility 'use b) X Facility 'use c) Master Plan Status - a) Facility 'use b) X Facility 'use c) Master Plan Major facility next five ye may have a 10) Facility Audit Surve a) Facility Audit Surve a) Facility Audit Surve | n (Type) ndition and Facility Condition Index (For Targeted FCI = f Use, Time(s) of Operation: (Hours/Da eplacement Value \$ NA - Check one or more of the following: eful' life is less than five (5) years. eful' life is more than five (5) years. n is obsolete; Last Date Approved (by ty changes, renovations, or program re- ears, (If yes, please explain below if the an impact on this CM request.) | CI) Number Date of Last Audit Date of Last Audit ay, Days/Month, Months/Year) OSPB/CDHE) evisions are ongoing or anticipated in the ese facility renovations or program revisior |

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | Project Title | |
|-------------|---------------|--|

Completion date or status

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Remove and replace 20-year-old obsolete Building Automation Control (BAS) system components with up-todate equipment consistent with current strategies in BAS control. Current controls strategies have evolved to focus on non-proprietary control languages, giving way to the opportunity for competitive bidding in subsequent years or projects. Johnson Controls has announced that they will no longer support their current proprietary legacy BAS hardware and software in the effort to follow suit with the emerging strategies. In doing so they have forced CSU to seek out third party vendors who specialize in backfilling components and software at a greatly increased cost and questionable reliability. The system utilizes 16-bit architecture requiring a Microsoft XP professional platform, which has not been supported by Microsoft since March 2014. There are currently 48 buildings dependent on this obsolete system, monitored by 32 controllers. Half of these buildings house research labs. Over 11,000 points are monitored.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$1,142,792

 Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

Failure of building automation system for buildings on the obsolete system will result in loss of fire alarm and security notifications to CSU PD and Facilities, resulting in closure of the building until repairs are made. There is a potential for substantial building damage if BAS points are not reporting/activating correctly, with subsequent loss of research and building use. CSU will pay higher costs to continue to support outdated, proprietary building automation software, rather than be able to use competetive bids when updates are needed.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

CSU has invested significant funds over the years in building automation systems for energy efficiency and alarm point monitoring. The first systems installed are now over 20 years old and are not compatible with modern HVAC equipment. Their trending and alarm capabilities are inadequate for today's needs. Updated equipment that will focus on non-proprietary control languages will make system upgrades less expensive and provide improved monitoring/alarm capabilities. This will result in better building control and improved energy efficiency.

D. <u>DETAILED COST ESTIMATE</u> (detail by phase, one page per phase, include all phases)

 1) Approved By
 Mike Rush
 2) Phase?
 1 of 1

 3) Method and Date of Estimate
 Remodel and Construction Services

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|--|----------|
| Arch/Eng/Basic Services: | 56,895 |
| Code Review/Inspection: | 2,644 |
| Other (Explain): PM fee | 38,934 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$98,473 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| InfrastructureInfrastructureInfrastructurea) Utility Services:Infrastructureb) Site Improvements:Infrastructureb) Site Improvements:Infrastructure/Systems/Componentscontrollers and software32 eaStructure/Systems/ComponentsInfrastructureControllers and software32 eaStructure/Systems/ComponentsInfrastructureControllers and software32 eaStructure/Systems/ComponentsInfrastructureControllers and softwareInfrastructureStructure/Systems/ComponentsInfrastructureControllers and softwareInfrastructureStructure/Systems/ComponentsInfrastructureInfrastructure/Systems/ComponentsInfrastructureInfrastructure/Systems/ComponentsInfrastructureInfrastructure/Systems/ComponentsInfrastructureInfrastructure/Systems/ComponentsInfrastructureInfrastructure/Systems/Construction Improvement Costs:Systems/ComponentSystems/ComponentsInfrastructureSystems/Construction Improvement Costs:Systems/Component | WORK ITEM (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|--|--|--------------------------|-----------|---------------|
| Image: space of the space of | Infrastructure | | | |
| Structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsControllers and software32 ea\$24,392780,559Other(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsContractor's General Conditions:Image: structure/Systems/ComponentsImage: structure/ | a) Utility Services: | | | |
| Structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsControllers and software32 ea\$24,392780,559Other(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsOther(explain):Image: structure/Systems/ComponentsImage: structure/Systems/ComponentsImage: structure/Systems/ComponentsContractor's General Conditions:Image: structure/Systems/ComponentsImage: structure/ | | | | |
| Controllers and software32 ea\$24,392780,559Other(explain):IIIOther(explain):IIIImage: Solution of the s | b) Site Improvements: | | | |
| Controllers and software32 ea\$24,392780,559Other(explain):IIIOther(explain):IIIImage: Solution of the s | | | | |
| Other(explain):Image: Contractor's General Conditions:Image: Contractor's General Conditions:Image: Contractor's General Conditions:Contractor's Overhead & Profit:Image: Contractor's Overhead & Profit:Image: Contractor's Overhead & Profit:Image: Contractor's Overhead & Profit:Inflation Percentage/dollar amount: (required for each out year phase)Image: Contractor's Overhead & Profit:Image: Contractor's Overhead & Profit: | Structure/Systems/Components | | | |
| Image: Contractor's General Conditions: Image: Contractor's General Conditions: Contractor's Overhead & Profit: 70,249 Inflation Percentage/dollar amount: (required for each out year phase) 89,621 | Controllers and software | 32 ea | \$24,392 | 780,559 |
| Image: Contractor's General Conditions: Image: Contractor's General Conditions: Contractor's Overhead & Profit: 70,249 Inflation Percentage/dollar amount: (required for each out year phase) 89,621 | | | | |
| Contractor's Overhead & Profit: 89,621 Inflation Percentage/dollar amount: (required for each out year phase) 100,000 | Other(explain): | | | |
| Contractor's Overhead & Profit: 89,621 Inflation Percentage/dollar amount: (required for each out year phase) 100,000 | | | | |
| Contractor's Overhead & Profit: 89,621 Inflation Percentage/dollar amount: (required for each out year phase) 100,000 | | | | |
| Inflation Percentage/dollar amount: (required for each out year phase) | Contractor's General Conditions: | | | 70,249 |
| (required for each out year phase) | Contractor's Overhead & Profit: | | | 89,621 |
| Total of Construction Improvement Costs: \$940,429 | | | | |
| | Total of Construction Improvement Costs: | | | \$940,429 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 32 ea |
|---|----------|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | \$29,388 |

6) Miscellaneous (explain)

| Total of Miscellaneous Costs: | | \$ |
|-------------------------------|--|----|

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 103,890 | 7 |
|--|---------|---|
| improvements, and miscellaneous costs.) | | |

8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional services (4), construction improvements(5), miscellaneous costs(6), and project contingency(7)

Note: Agency formatted cost estimates may accompany this page.



E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 1 | 1,142,792 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | ¢ |

(Subtotal)

\$1,142,792

TOTAL PROJECT DOLLAR AMOUNT

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|-----------|------------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | _May 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |

\$

-

| Colorado State University | Budget | Opin | ion |
|---|---|---|---|
| Remodel Services Facilities Service Center North | This is only for Budgetary consideration only. Price may change atter design is completed | Date: Project #: Customer ID# Expiration Date: | 07/16/13 CMFY15014 6030 10/14/2013 |
| To: Steve Hultin | | | |
| Facilities | | | |
| 491-0006 | | | |
| 132 Fac North | | | |
| | | | |
| Tony Flores 491-0589 Campus Obsolete Controls u | pgrades | | |
| 100 ICI 1. Upgrade (32) Network Co | ntroller Automation \$ 850,000. | Less received | 850,000.00 |

1.00

JCI

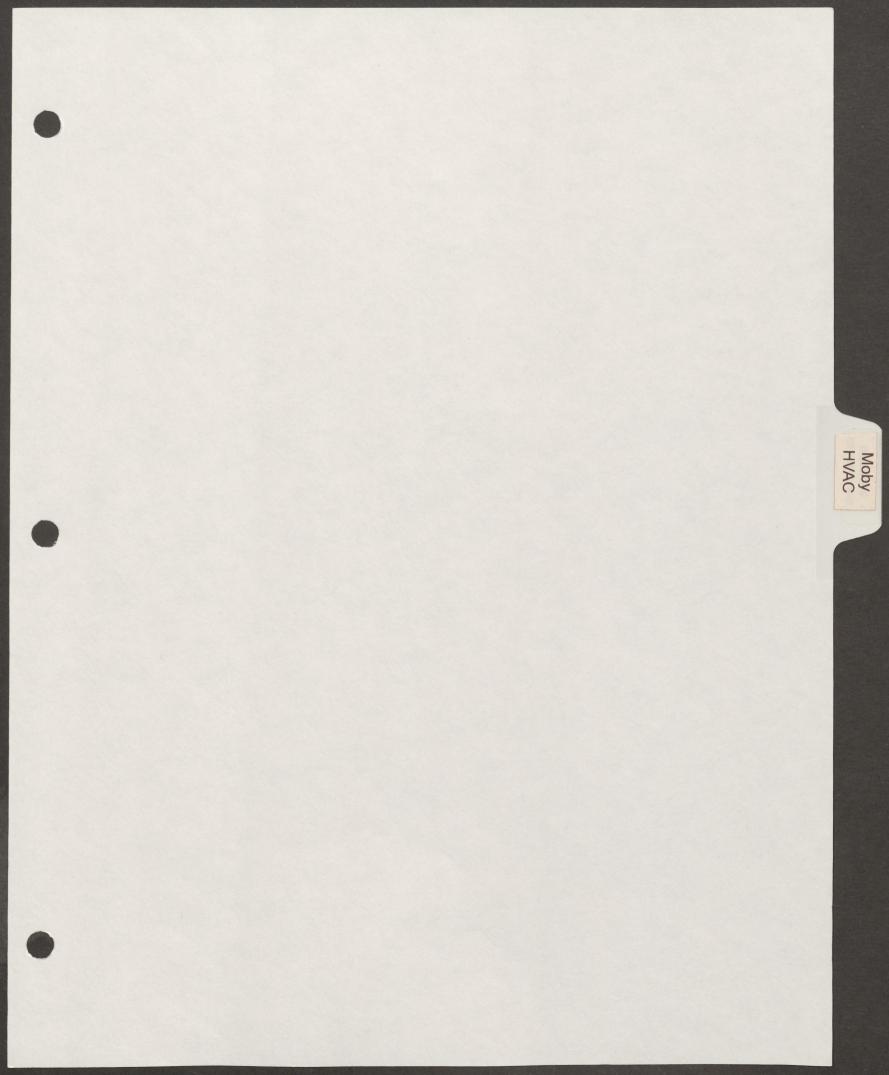
1. Upgrade (32) Network Controller Automation Engines - Labor and hardware 2. Bind MEA Points to existing graphics - software

upgrade - Labor and hardware

| | | Construction Sul | btotal | 850,000.00 |
|---|--|---|----------|------------|
| | | Contingen | cy | 42,500.00 |
| | Design fees | | \$ | 8,500.00 |
| Thind De | ty Code review | | | 2,390.00 |
| | | N/A | | |
| L | ode Inspections PM F | | \$ | 42,925.00 |
| | Adve | ertisement fees | | |
| his magnitude of cost is based on information which is now known and reasonably apparent from o more detailed analysis, changes in scope and the bidding process could cause substantial changes in nd an WOA for construction based upon this amount. | ur investigation. It is possible 1 the estimate. This is a prelia | e that unknown conditions, minary cost opinion; do not | Total \$ | 946,315.00 |
| nis is a cost opinion on the Project named, subject to the conditions noted below: Packing of book shelves or files priory to moving is not included. Asbestos or Lead hazard assessment or abatement is not covered unless stated This quote does not cover the activation of phone and Data lines the customer | | nown in red to the | | |

to the attention of the project manager State Purchasing Regulations require all single Purchase orders over \$50,000 Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030



| | Controlled M Request | aintenance | | | iewal Bui ired in Ca | | | ture Requ Request (' | |
|--|---|---|--|---|--|---|--|---------------------------------|-------|
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| Dire | | | | | | Date | | | |
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| | ency ID No. | 1 | | | | 110,000 | | | |
| | ency Priority # ject Title Mo | | AC upgrade | 2 phases | - | | | | |
|) 110j | | | to apgrado | - prideee | | | | | |
| FAC | ILITY PROFI | LE | | | | | | | |
|) Faci | ility Type | Site (Utilitie | es undergrou | und) | | | | | |
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| | and a strange to the second | | . Bldg(s) ID# | ŧ | | | | | |
|) Faci | ility Location | Main Camp | us | 1000 C | | | D. I. D. | ilt 1964 | |
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| | ility Area/Age | | | ASF | 235,973 | | Date Bu | ala farancia | |
| | ility Area/Age ility Functional | | | CARD LINE PARTY AND LAND | | | _ and a default is readily to the default of the de | ala farancia | |
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|) Faci) Faci | ility Functional | Use/Occupar on (Type) | ncy <u>Audit</u> | orium, gym | nasium, cl | assroom | _ and a default is readily to the default of the de | ala farancia | |
|) Faci i) Faci i) Faci | ility Functional ility Constructi ility Physical C | Use/Occupar on (Type) condition and | ncy <u>Audit</u> | orium, gym dition Inde> | nasium, cl | assroom nber | _ and a default is readily to the default of the de | boratory | |
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| Faci Faci Faci Faci Actu (Des (Des 7) Fac 24/3 3) Fac 9) Mas a) | ility Functional ility Constructi ility Physical C ual FCI = 5 scribe) Desk a cility - Intensity 30/12 cility - Current ster Plan Statu Facility 'n | Use/Occupar on (Type) ondition and 8 udit in 2015, la of Use, Time Replacement us - Check on | Audite Facility Cond Targeted FC ast physical (s) of Operation Value \$ | dition Index CI = 100 audit done tion: (Hours 58,586,291 the followi (5) years. | nasium, cli (FCI) Nun in 2007. s/Day, Day | assroom nber Date | e of Last A | boratory Judit 2015 | |
| Faci Faci Faci Faci Actu (Des (Des 7) Fac 24/3 3) Fac 9) Mas a) b) | ility Functional ility Constructi ility Physical C ual FCI = 5 scribe) Desk a cility - Intensity 30/12 cility - Current ster Plan Statu Facility 'n | Use/Occupar on (Type) ondition and 8 udit in 2015, la of Use, Time Replacement us - Check on useful' life is la useful' life is la | Audite Facility Cone Targeted F(ast physical (s) of Operative (s) of Oper | dition Index CI = 100 audit done tion: (Hours 58,586,291 the followi (5) years. e (5) years | nasium, cli (FCI) Nun in 2007. s/Day, Day | assroom nber Date | , Months/ | boratory Judit 2015 | |
| Faci Faci Faci Faci Actu (Des (Des 7) Fac 24/3 3) Fac 9) Mas a) | ility Functional ility Constructional cility Physical Construction cility Physical Construction cility Physical Construction scribe) Desk a cility - Intensity 30/12 cility - Intensity 30/12 cility - Current ster Plan Statu Facility 'n X Facility 'n Master F Major fan next five | Use/Occupar on (Type) ondition and 8 udit in 2015, la of Use, Time Replacement us - Check on useful' life is la | Audite Facility Cond Targeted F(ast physical (s) of Operations (s) of Operations (s | dition Index CI = 100 audit done audit done tion: (Hours 58,586,291 the followi (5) years. e (5) years. e (5) years e Approved s, or progra | nasium, cli (FCI) Nun in 2007. s/Day, Day s/Day, Day ng: (by OSPB im revision | nber Date s/Month /CDHE) s are on | going or a | boratory .udit 2015 Year) | n the |
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| a) Faci b) Faci c) Faci c) Faci c) Faci c) Faci c) d) | ility Functional ility Constructional cility Physical Construction cility Physical Construction cility Physical Construction scribe) Desk and cility - Intensity 30/12 cility - Intensity 30/12 cility - Current ster Plan Statu Facility 'u X Facility 'u X Facility 'u Master F Major fan next five may hav acility Audit Su | Use/Occupation (Type) condition and | Audite Facility Cond Targeted F(ast physical (s) of Operat (s) of Opera | dition Index CI = 100 audit done audit done tion: (Hours 58,586,291 the followi (5) years e (5) years e (5) years e Approved s, or progra plain below equest.) | nasium, cla (FCI) Num in 2007. s/Day, Day s/Day, Day ng: (by OSPB im revision if these fac | nber Date s/Month /CDHE) s are on | going or a | boratory .udit 2015 Year) | n the |

Completion

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 STATE BUILDINGS PROGRAM

- c) Facility Audit Survey Cycle
- 11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | Project Title | date or status |
|-------------|--|----------------|
| M13017 | Fire Sprinkler Installation, Moby B Wing | 2/2015 |
| | | |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace selected mechanical equipment in the Moby Gymnasium A-Wing, which houses the arena and supporting spaces. The equipment in this wing is original to the 1964 building construction. Replace internal components of air handling equipment, controls, coils, and pumps, to include necessary asbestos abatement. The current equipment is beyond its useful life and requires increasing time and resources to maintain. In addition, the west end of campus needs to be taken off the existing Central Steam system in order to free up capacity for future growth on the densely populated east side of campus. New boilers to support these buildings would encroach on the regulatory cap for NOx emissions, decreasing the capacity of a future new heating plant on main campus. The intention is to invest in a geothermal system to heat and cool these west-side buildings.

- 2) Total Project Cost Estimate (From Cost Breakdown) \$ \$2,187,493
- 3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

This work will replace aging equipment at the end of its useful life, as well as provide equipment that will be correctly sized to accommodate a future geothermal heating and cooling system that will serve the entire Moby Complex. If this work is not accomplished Moby A wing will require increasing amounts of time and resources to keep the old system operational. In addition, this project is the lynchpin to retiring the west utility loop. The university estimates an expense upwards of \$14M will be required in the next 10-15 years just to replace existing supply and condensate lines if the west end of the loop cannot be retired. Moby A wing is a heavily used indoor arena, hosting multiple sports and other events.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

This work will not only replace aging equipment at end of life, but the new equipment will be correctly sized to accommodate a future geothermal heating and cooling system intended to serve the entire Moby complex. The geothermal system will be much more energy efficient than the current distribution of steam to the sparsely populated west side of campus, decreasing energy costs in the long run.

D. <u>DETAILED COST ESTIMATE</u> (detail by phase, one page per phase, include all phases)

| 1) Approved By Mike Rush | 2) Phase? 1 of 2 | |
|--------------------------------|---|--|
| 3) Method and Date of Estimate | Remodel and Construction Services (half of the units) | |

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|--|-----------|
| Arch/Eng/Basic Services: | 159,727 |
| Code Review/Inspection: | 5,698 |
| Other (Explain): PM fee | 20,549 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$185,974 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|---|--------------------------|-----------|---------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| | | | |
| b) Site Improvements: | | | |
| Structure/Systems/Components | | | |
| Demo old fan units | 16 ea | 3,614 | 57,824 |
| New coils and motors for supply fans | 8 ea | 19,127 | 153,016 |
| New exhaust fans | 8 ea | 7,946 | 63,568 |
| VFDs for new motors | 5 ea | 5,586 | 27,930 |
| Chilled water piping | 1200 lf | 121 | 145,200 |
| New pumps | 2 ea | 18,620 | 37,240 |
| New control valves | 16 ea | 7,523 | 120,368 |
| Other(explain): | | | |
| Asbestos abatement at fan units | 16 ea | 3,501 | 56,016 |
| Contractor's General Conditions: | | | 63,639 |
| Contractor's Overhead & Profit: | | | 71,594 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | | 1 | \$796,395 |

5a) Total square feet/lineal feet of Construction Improvement area:5b) Overall cost per square foot/lineal foot of construction Improvement:

6) Miscellaneous (explain)

Total of Miscellaneous Costs:

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 98,237 | |
|--|-------------|--|
| improvements, and miscellaneous costs.) | and they be | |

\$

| 6) Total Cust of the Project (single phase) of Total of this specific that of the project of the project of the | \$1,080,606 |
|---|-------------|
| services (4), construction improvements(5), miscellaneous costs(6), and project | |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.

| 1) Approved By Mike Rush | 2) Phase? 2 of 2 | |
|--------------------------------|---|--|
| 3) Method and Date of Estimate | Remodel and Construction Services (half of the units) | |

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|--|-----------|
| Arch/Eng/Basic Services: | 159,727 |
| Code Review/Inspection: | 5,698 |
| Other (Explain): PM fee | 20,549 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$185,974 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| <u>WORK ITEM</u> (Labor/Material/Equipment) | <u>UNIT</u> sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|---|---------------------------------|-----------|---------------|
| Infrastructure | <u></u> | | |
| a) Utility Services: | | | |
| | | | |
| b) Site Improvements: | | | |
| Structure/Systems/Components | | | |
| Demo old fan units | 16 ea | 3,614 | 57,824 |
| New coils and motors for supply fans | 8 ea | 19,127 | 153,016 |
| New exhaust fans | 8 ea | 7,946 | 63,568 |
| VFDs for new motors | 5 ea | 5,586 | 27,930 |
| Chilled water piping | 1200 lf | 121 | 145,200 |
| New pumps | 2 ea | 18,620 | 37,240 |
| New control valves | 16 ea | 7,523 | 120,368 |
| Other(explain): | | | |
| Asbestos abatement at fan units | 16 ea | 3,501 | 56,016 |
| Contractor's General Conditions: | | | 63,639 |
| Contractor's Overhead & Profit: | | | 71,594 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | 23,892 |
| Total of Construction Improvement Costs: | | J | \$820,287 |

5a) Total square feet/lineal feet of Construction Improvement area:5b) Overall cost per square foot/lineal foot of construction Improvement:

6) Miscellaneous (explain)

| Γ | Total of Miscellaneous Costs: | \$ |
|-----|-------------------------------|----|
| los | | |

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 100,626 | |
|--|---------|--|
| improvements, and miscellaneous costs.) | | |

| 8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional | \$1,106,887 |
|--|-------------|
| services (4), construction improvements(5), miscellaneous costs(6), and project | |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|-------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |
| | | (Subtotal) | \$ |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 2 | 1,080,606 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | 2 of 2 | 1,106,887 |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$ 1,106,887 |

(Subtotal)

\$2,187,493

TOTAL PROJECT DOLLAR AMOUNT

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List all previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|-----------|------------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | May 2018 | Sept 2019 |
| 4. Project Close-out/Final Completion | Oct 2019 | Oct 2019 |





Remodel Services

Facilities Service Center North

Budget Opinion

This is only for Budgetary consideration only. Price may change after design is completed
 Date:
 07/19/13

 Project #:
 CMFY15010

 Cust. ID#
 6030

 Expires on:
 10/17/2013

To: Steve Hultin Office of the Director Facilities Management 491-0006 Moby Arena A-wing

Tony DeKrey 491-3637 Renovate HVAC in A-wing

| 24.00 | Abate asbestos wrap on duct work to each fan unit, | \$ 4,300.00 | 103,200.00 |
|-------|--|-------------|------------|
| 8.00 | remove TSI on piping to the coils, pumps, valves and | 2,350.00 | 18,800.00 |
| | the vibration fabric is also ACM and needs removed | | |
| | from all units. There are 32 total fan units, 16 supply | | |
| | and 16 return/exhaust fans. There are 24 large fans and | | |
| | 8 smaller fans. Fans are located in hard to access | | |
| | locations it was figured to contain each fan and abate | | |
| | an average cost of \$4300 per large fan and \$2350 per | | |
| | small fan to abate. | | |
| 24.00 | Remove ductwork from vibration joint to outside air | 4,500.00 | 108,000.00 |
| 8.00 | grills. Include motors, coils and control valves back to | 1,875.00 | 15,000.00 |
| | each isolation valve. Large fans are in equipment | | |
| | rooms not easy to access and will need to be cut up | | |
| | to get out of spaces where located there are 24 large | | |
| | fans with a cost of \$4500 to remove and the smaller | | |
| | fans are located in equipment rooms easy to access | | |
| | and can be removed without cutting them up with a | | |
| | cost of \$1875 to remove. | | |
| | | | |
| | | | |

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.

This is a cost opinion on the Project named, subject to the conditions noted below:

1. Packing of book shelves or files priory to moving is not included.

2. Asbestos or Lead hazard assessment or abatement is not covered unless stated

3. This quote does not cover the acctivation of phone and Data lines the customer

will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of the project manager

State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030





245,000.00

Page 1 Subtotal \$



Remodel Services

Facilities Service Center North

Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed
 Date:
 07/19/13

 Project #:
 CMFY15010

 Cust. ID#
 6030

 Expires on:
 10/17/2013

| To: | Steve Hultin |
|-----|--|
| | Office of the Director Facilities Management |
| | 491-0006 |
| | Moby Arena A-wing |

 P.M.
 Phone s
 Project fille

 Tony DeKrey
 491-3637
 Renovate HVAC in A-wing

| initialinitialinitialinitial16.00Supply new exhaust far1.00Materials to hang and16.00Install new supply far16.00Install new supply far16.00Install new supply far100Install new exhaust far1.00Materials to hang and32.00Provide 4"control valv1.00Install and program nebacknet controls syster1.00install 4 hours to pro32.00Disconnect power from32.00at disconnect. Disconne | | | |
|--|-----------------------------------|-----------|------------|
| 16.00cooling coils, motors.16.00Supply new exhaust far1.00Materials to hang and16.00Install new supply far16.00Install new supply far16.00Install new exhaust far1.00Materials to hang and32.00Provide 4"control valv1.00Install and program nebacknet controls systerbacknet controls syster32.00Disconnect power from32.00Disconnect power from | | | 245,000.00 |
| 16.00Supply new exhaust fa1.00Materials to hang and16.00Install new supply fam16.00Install new supply fam16.00Install new exhaust far1.00Materials to hang and32.00Provide 4"control valv1.00Install and program nebacknet controls systemto install 4 hours to pro32.00Disconnect power fromat disconnect. DisconnectDisconnect | fans with dual heating and | 16,000.00 | 256,000.00 |
| 1.00 Materials to hang and 1.00 Install new supply fand 16.00 Install new supply fand return pipes, connect to Install new exhaust fand 1.00 Materials to hang and 32.00 Provide 4"control valve 1.00 Install and program new backnet controls system to install 4 hours to promise. materials 32.00 Disconnect power from at disconnect. Disconnect | | | |
| 16.00 Install new supply fand 16.00 Install new supply fand 16.00 Install new exhaust fand 100 Materials to hang and 32.00 Provide 4"control valv 1.00 Install and program new backnet controls system to install 4 hours to promise. 32.00 Disconnect power from at disconnect. Disconnet | ns for building | 3,500.00 | 56,000.00 |
| 16.00 Install new exhaust far 16.00 Install new exhaust far 1.00 Materials to hang and 32.00 Provide 4"control valv 1.00 Install and program ne backnet controls system to install 4 hours to promise. materials 32.00 Disconnect power from at disconnect. Disconnect | connect supply fan units | 23,000.00 | 23,000.00 |
| 16.00Install new exhaust far1.00Materials to hang and32.00Provide 4"control valv1.00Install and program nebacknet controls systemto install 4 hours to promise. materials32.00Disconnect power fromat disconnect. Disconnect | s, connect to heating supply and | 6,800.00 | 108,800.00 |
| 1.00 Materials to hang and 32.00 Provide 4"control valv 1.00 Install and program ne backnet controls system backnet controls system to install 4 hours to promise. materials 32.00 Disconnect power from at disconnect. Disconnet | existing duckwork, | | |
| 32.00 Provide 4"control valv 1.00 Install and program ne backnet controls system backnet controls system to install 4 hours to promise. materials 32.00 Disconnect power from at disconnect. Disconnect | ns connect to ductwork | 3,200.00 | 51,200.00 |
| 1.00 Install and program ne backnet controls system to install 4 hours to promise. materials 32.00 Disconnect power from at disconnect. Disconnect | connect exhaust fan units | 5,000.00 | 5,000.00 |
| backnet controls system to install 4 hours to pro misc. materials 32.00 Disconnect power from at disconnect. Disconn | es to each air handler | 5,000.00 | 160,000.00 |
| 32.00 to install 4 hours to promise. materials 32.00 Disconnect power from at disconnect. Disconnect | ew control valves into existing | 30,000.00 | 30,000.00 |
| 32.00 misc. materials at disconnect. Disconnect | n crew \$65 per hour 10 hours | | |
| 32.00 Disconnect power from at disconnect. Disconn | ogram per valve. With \$880 for | | |
| at disconnect. Disconn | | | |
| | n existing supply and return fans | 800.00 | 25,600.00 |
| and at \$100 per hour | ects to be reused for new fans | | |
| crew at \$100 per hour | for 1 day | | |
| 32.00 Reconnect power to ea | ch supply and exhaust fan | 1,000.00 | 32,000.00 |
| from existing disconne | cts | | |

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State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030

#VALUE!

992,600.00

Page 2 Subtotal \$



Remodel Services Facilities Service Center North

Budget Opinion

Advertisement fees

This is only for Budgetary consideration only. Price may change after design is completed
 Date:
 07/19/13

 Project #:
 CMFY15010

 Cust. ID#
 6030

 Expires on:
 10/17/2013

Steve Hultin Office of the Director Facilities Management 491-0006 Moby Arena A-wing

Tony DeKrey 491-3637

To:

Renovate HVAC in A-wing

| | Subtotal for page 2 | | | 992,600.00 |
|---------|---|----------------|----------|------------------|
| 10.00 | VFDs for new motors | 3,800.00 | | 38,000.00 |
| 1.00 | Hook up VFDs to motors Crew 2 men at \$ 112 per | 7,000.00 | | 7,000.00 |
| | hour for 5 hours and \$27 for misc materials | | | |
| 1.00 | Run couduit and for new control wiring for fans system | 8,960.00 | | 8,960.00 |
| | Crew 2 at \$112 per hour for 80 hours. | | | |
| 1.00 | Program new controls into CSU backnet system crew | 5,440.00 | | 5,440.00 |
| | 2 at \$130 per hour for 40 hours and \$240 misc materials | | | |
| 2400.00 | Provide AquaTherm pipe for Chilled water to the new | 28.00 | | 67,200.00 |
| | fan systems 1 1/4" supply and returns | | | |
| 4.00 | New pumps with VFDs for chilled water system | 15,800.00 | t. | 63,200.00 |
| 1.00 | Electrical to new pumps and control wiring to pumps | 16,000.00 | | 16,000.00 |
| | and VFDs for chilled water | | | |
| 1.00 | Install Aquatherm piping and pumps to supply fans | 239,600.00 | | 239,600.00 |
| | Crew 12 at \$684 per hour for 320 hours. \$20720 | | | |
| | for hangers, materails and insulation | Construction S | Subtotal | 1,438,000.00 |
| | | Continger | ncy | 143,800.00 |
| | Design fe | ees | | \$ 172,560.00 |
| | Third Party Code revie | ew | | 3,801.20 |
| | Code Inspectio | ons | | \$ 6,500.00 |
| | | PM Fees | | \$ 161,056.00 |

This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for construction based upon this amount.

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State Purchasing Regulations require all single Purchase orders over \$50,000

Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030



1,925,717.20

Total \$

Facilities Audit Program Building Summary

Building Name:Auditorium GymnasiumNumber:0027Construction Date:1966Gross Square Feet:280,438Net Square Feet:235,973Date of Audit:09/10/2007Cycle:6Phase:2No. of Stories:2Classification:M310Gymnasium,1StorySBP Class:15Physical EducationReplacement Cost:\$34,907,463.96Cost Per SF:\$124.47

| Component | Total Rating | Multiplier Used | Component Deficiency | Renewal Cost |
|------------|-----------------|--------------------|-------------------------|-----------------|
| Foundation | 0.0800 | 0.04 | 0.0032 | \$111,703.88 |
| Ext Walls | 0.2500 | 0.06 | 0.0150 | \$523,611.95 |
| Floors | 0.1200 | 0.15 | 0.0180 | \$628,334.36 |
| Roof | 0.3000 | 0.18 | 0.0540 | \$1,885,003.20 |
| Ceiling | 0.6000 | 0.01 | 0.0060 | \$209,444.79 |
| Int Walls | 0.3000 | 0.04 | 0.0120 | \$418,889.57 |
| Windows | 0.3000 | 0.02 | 0.0060 | \$209,444.79 |
| Doors | 0.5000 | 0.02 | 0.0100 | \$349,074.63 |
| Cool Vent | 0.5000 | 0.06 | 0.0300 | \$1,047,223.90 |
| Heat | 0.4500 | 0.05 | 0.0225 | \$785,417.93 |
| Plumbing | 0.5500 | 0.06 | 0.0330 | \$1,151,946.31 |
| Electrical | 0.6090 | 0.07 | 0.0426 | \$1,488,105.12 |
| Convey | 0.2500 | 0.02 | 0.0050 | \$174,537.32 |
| Safety | 0.3500 | 0.03 | 0.0105 | \$366,528.36 |
| AE/OP | 0.2678 | 0.19 | 0.0509 | \$1,776,360.54 |

Component Deficiency Total:

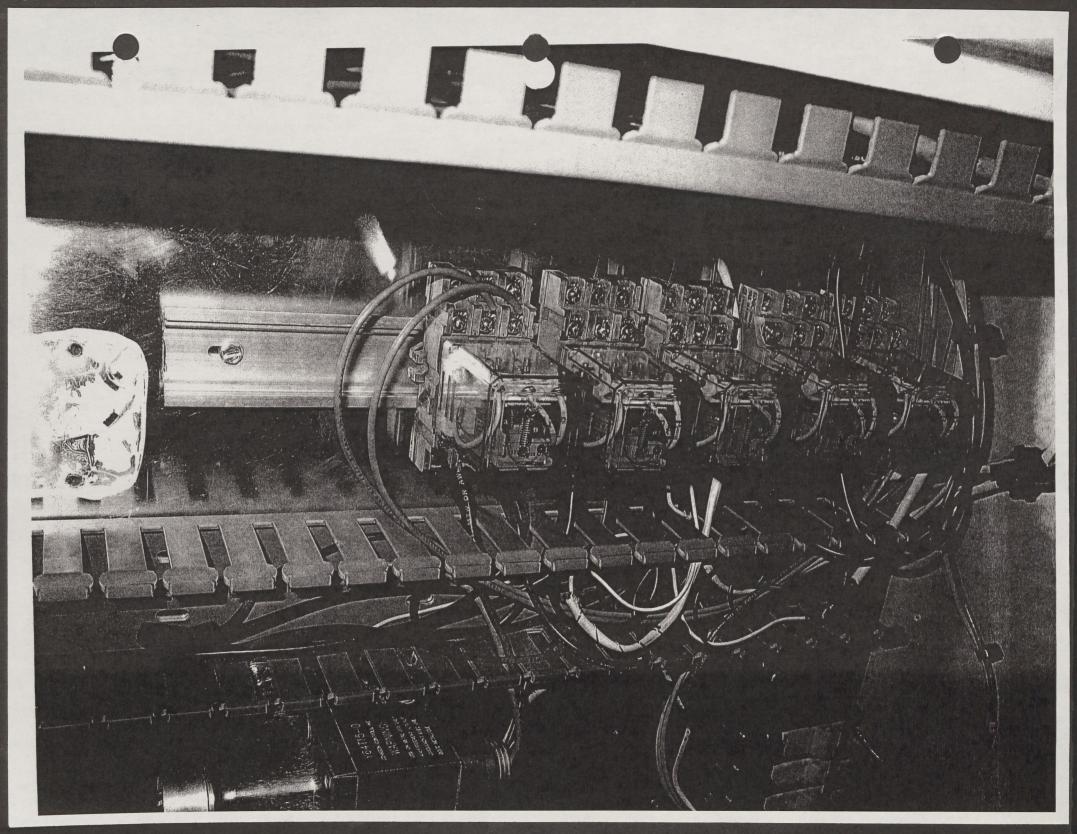
0.3187

Outstanding Maintenance:\$11,125,626.70Facilities Condition Index (FCI):68.13

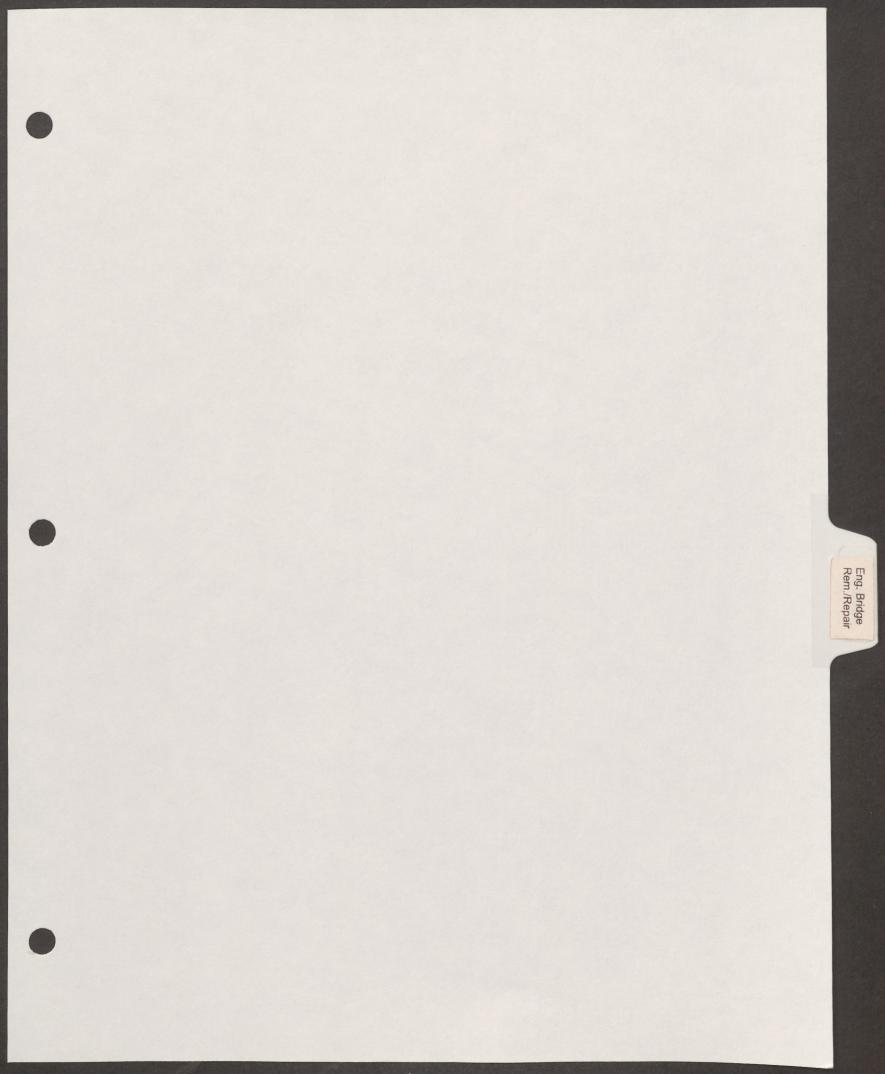
FCI = (1-Component Deficiency Total) x 100

AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)

Thursday, August 01, 2013







| OFFICI | | | CE PROJECT R | EQUEST FY 2 | | |
|---|--|--|--|--|--|--|
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| TATE | BUILDIN | GS PROGRA | ۹M | | | |
| A. AG | ENCY BA | SIC DATA: | | | | |
| X | Controlle | d Maintenan | ce Cap | ital Renewal B | uilding/Infras | structure Reques |
| | Request | | | | | wal Request (Y/N |
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| 1) Age | ency / | Colorado Sta | te University Fort (| Collins | | |
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| / | ecutive | | 10 | | | |
| | ector nature | -14 | fatterty | | Date 7 | -22-16 |
| 1. | ency ID No. | | 0 | | Project M # | |
| | ency Priority | / # 1 | 11.11.11.11.11.11.11.11.11.11.11.11.11. | | | A THE REAL PROPERTY OF |
| | | | Bridge Removal (f | from Engineering | to Lorv Studer | nt Center) |
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| . FAC | ILITY PRO | DFILE | | | | |
| 1) Faci | ility Type | Site (Uti | lities underground |) | | |
| | | or Site (| Improvements abo | ove ground) | | |
| | | X or Buildi | ng Name (s) | Engineering Bui | lding | |
| | | | | | | |
| | | Risk Mg | mt. Bldg(s) ID# | | | |
| 2) Fac | ; ility Locatio | Risk Mg n Main Car | | | | |
| | | | npus | ASF _198,53 | 0 Date | e Built 1957 |
| 3) Fac | ility Area/A | n <u>Main Car</u> ge GSF <u>2</u> | npus | - | the second s | e Built <u>1957</u> |
| 3) Fac 4) Fac | ility Area/Ag | n <u>Main Car</u> ge GSF <u>2</u> | npus 211,410 | - | the second s | e Built <u>1957</u> |
| 3) Fac 4) Fac 5) Fac | ility Area/Ag ility Functionity Constru | n <u>Main Car</u> ge GSF <u>2</u> nal Use/Occup uction (Type) | npus 211,410 | m, laboratory, of | fice | e Built <u>1957</u> |
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| 3) Fac 4) Fac 5) Fac 6) Fac Actu | ility Area/A ility Functio ility Constru- ility Physica ual FCI = | n <u>Main Car</u> ge GSF <u>2</u> nal Use/Occup uction (Type) al Condition an 74 | npus 11,410 pancy <u>Classroo</u> d Facility Conditio | om, laboratory, of on Index (FCI) Nu 100 | fice | cine stations |
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11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | Project Title | | | date or status |
|-------------|---------------|--|--|----------------|
| | | | | |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

The current bridge structure is failing with muliple areas of spalling concrete. Roof leaks occur in the enclosed bridge and the entire connection lacks ADA compliance. These issues will be resolved with the removal of the bridge.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$363,383

 Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The Engineering bridge connection will continue to deteriorate, requiring more resources to keep the structure safe.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

Removal of the failing bridge will improve aesthetics and safety for pedestrians.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

| 1) Approved By Mike Rush | 2) Phase? | _1 of 1 | No. |
|--------------------------------|-----------------------------------|---------|-----|
| 3) Method and Date of Estimate | Remodel and Construction Services | | |

4) Professional Services

| Site Surveys, Investigations, and Reports: | |
|--|----------|
| Arch/Eng/Basic Services: | 23,120 |
| Code Review/Inspection: | 1,195 |
| Other (Explain): PM fee | 17,051 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$41,348 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM | UNIT | UNIT COST | EXTENDED COST |
|---|------------------|-----------|---------------|
| (Labor/Material/Equipment) | sf, cf, lf, etc. | | |
| Infrastructure | | | |
| a) Utility Services: | | | |
| b) Site Improvements: | | | |
| New concrete | | | 58,225 |
| Structure/Systems/Components | | | |
| Demo Bridge | | | 160,565 |
| Patch, paint as required | | | 11,390 |
| Other(explain): | | | |
| Fencing/barricades/pedestrian control | | | 15,470 |
| Contractor's General Conditions: | | | 23,120 |
| Contractor's Overhead & Profit: | | | 20,230 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | | | \$289,000 |

 5a) Total square feet/lineal feet of Construction Improvement area:

 5b) Overall cost per square foot/lineal foot of construction Improvement:

6) Miscellaneous (explain)

| Total of Miscellaneous Costs: | and the second | \$ |
|-------------------------------|----------------|----|

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 33,035 |
|--|--------------------------------|
| improvements, and miscellaneous costs.) | All Provide State Strategy and |

| 8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional | \$363,383 |
|--|-----------|
| services (4), construction improvements(5), miscellaneous costs(6), and project | |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.



E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | a constant of the |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 1 | 363,383 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (0.11.1-1) | ¢ |

(Subtotal)

TOTAL PROJECT DOLLAR AMOUNT

\$363,383

(All Prior, Future Phases subtotals and Current Dollar amount)

¹ List <u>all previous phases with actual appropriation by year (include federal funding)</u>. Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|-----------|------------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | May 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |

\$



S EXPERTS + CARING + STEWARDS PROGRESSIVE + COLLABORATIVE

REMODEL SERVICES BUDGET OPINION

Colorado State University

This Budget Opinion is for budgetary purposes only. Prices may change after design is complete

To:

| Date: | 07/01/16 |
|------------------|----------------------------|
| Project #: | 150923B |
| Customer ID# | 6030 |
| Expiration Date: | 9/29/2016 |
| | Project #: Customer ID# |

Steve Kellums 491-0249

Lory Student Center (LSC) - Engineering, Demo Bridge, Covered Walkways and Paint

| | | | | Less received | |
|-------------|--------------------|---|------------------|--------------------|------------------|
| | | Construction Services: Paint: | | | |
| .00 | Lab & Mat | Prime, Paint, Lift Rental, Sundries, Labor. | \$ 13,400.00 | | \$ 13,400.00 |
| | | Subcontractor: Concrete, Remove Covered Walkways: | | | |
| .00 | Lab & Mat | Demo Existing Paving/Covers, Prep Area, Pour New Concrete. | \$ 68,500.00 | | \$ 68,500.00 |
| | | 140725D: Remove Breezeway | | | |
| .00 | Lab & Mat | Demo Breezeway, Demo Electric Work, Repair Building Exteriors, | \$ 188,900.00 | | \$ 188,900.00 |
| | | Relocate Fire Alarm and Strobe, Patch and Paint Interior of | | | |
| | | Corridors, Floor Tile and Carpet Replacement, Furniture for Dead | | | |
| | | End Corridors. | | | |
| | | Construction Fencing: | | | |
| 1.00 | Lab & Mat | Construction fencing and barricades. | \$ 18,200.00 | | \$ 18,200.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | Cons | struction Subtotal | \$ 289,000.00 |
| | | | | Contingency | \$ 28,900.00 |
| | | | | Design Fees | \$ 23,120.00 |
| | | | Third Party G | Code Review Fees | 1,194.80 |
| | | | Project 1 | Management Fees | \$ 31,212.00 |
| | | | Ad | dvertisement Fees | |
| This is a p | oreliminary cost o | evaluation. Estimated pricing is based on currently available pricing | | Total | \$ 373,426.80 |

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

Budget Opinion is for this project only and is subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included.

2. Asbestos or Lead hazard assessment or abatement is not covered unless stated 3. This quote does not cover the activation of phone and data lines; customer

will need to contact Telecom to activate lines

To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please

Thank You For Your Business

\$ 39,920.80



| X | Controlled Maintenance | Capital Renewal B | uilding/Infrastructure Request |
|---|--|--|---|
| F | Request | HPCP required in (| Capital Renewal Request (Y/N) |
| | neu / Colorado Stata Un | iversity Fort Collins | |
| I) Age Inst | itution | iversity Fort Collins | |
| 2) Exe | | 2 | |
| | actor Afa | Martin | Date 7-22-16 |
| | ency ID No. | | Project M # |
| | ency Priority # 1 | | |
| | ject Title Industrial Sciences | Lab Building Exterior Upgrad | de |
| | | | |
| Contraction of the second | ILITY PROFILE | in the second second second | |
| 1) Faci | | underground) | |
| | | ovements above ground) | |
| | X or Building Na | | |
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| 0) | | | |
| and the second second | ility Location Main Campus | | Doto Ruilt 1025 |
| 3) Fac | ility Area/Age GSF 20,246 | 6 ASF20,032 | |
| 3) Fac 4) Fac | ility Area/Age GSF <u>20,246</u> ility Functional Use/Occupancy | 6 ASF20,032 | |
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| 3) Fac 4) Fac 5) Fac 6) Fac | ility Area/Age GSF 20,244 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa | 6 ASF 20,032 y Classroom, laboratory, of cility Condition Index (FCI) No | umber |
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| 3) Fac 4) Fac 5) Fac 6) Fac Actu | ility Area/Age GSF 20,244 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa | ASF 20,032 Classroom, laboratory, of cility Condition Index (FCI) No argeted FCI = 100 | umber |
| 3) Fac 4) Fac 5) Fac 6) Fac Actu | ility Area/Age GSF 20,240 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta | ASF 20,032 Classroom, laboratory, of cility Condition Index (FCI) No argeted FCI = 100 | umber |
| 3) Fac 4) Fac 5) Fac 6) Fac Actu | ility Area/Age GSF 20,240 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta | ASF 20,032 Classroom, laboratory, of cility Condition Index (FCI) No argeted FCI = 100 | umber |
| 3) Fac 4) Fac 5) Fac 6) Fac Actu (Des | ility Area/Age GSF <u>20,246</u> ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta scribe) Desk audit, last physica | ASF 20,032 y Classroom, laboratory, of cility Condition Index (FCI) Nu argeted FCI = 100 al audit was in 2008 | ffice umber Date of Last Audit 2015 |
| Fac Fac Fac Fac Fac Fac Comparison Comparison< | ility Area/Age GSF 20,246 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta scribe) Desk audit, last physica | ASF 20,032 y Classroom, laboratory, of cility Condition Index (FCI) Nu argeted FCI = 100 al audit was in 2008 | ffice umber Date of Last Audit 2015 |
| 3) Fac 4) Fac 5) Fac 6) Fac 6) Fac (Des 7) Fac 24/3 | ility Area/Age GSF <u>20,246</u> ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta scribe) Desk audit, last physica | ASF 20,032 Classroom, laboratory, of cility Condition Index (FCI) Nu argeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day, Da | ffice umber Date of Last Audit 2015 |
| 3) Fac 4) Fac 5) Fac 6) Fac 6) Fac (Des 7) Fac 24/3 8) Fac | ility Area/Age GSF <u>20,246</u> ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta scribe) Desk audit, last physica scribe) Desk audit, last physica scribe) Desk audit, last physica | 6 ASF 20,032 y Classroom, laboratory, of cility Condition Index (FCI) Nuargeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day, Dataset) ilue \$ 6,277,475 | ffice umber Date of Last Audit 2015 |
| 3) Fac 4) Fac 5) Fac 6) Fac 6) Fac (Des 7) Fac 24/3 8) Fac 9) Mas | ility Area/Age GSF 20,244 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa al FCI = 63 Ta scribe) Desk audit, last physica scribe) Desk audit, last physica ility - Intensity of Use, Time(s) 30/12 ility - Current Replacement Va ster Plan Status - Check one o | ASF _20,032 y _Classroom, laboratory, of cility Condition Index (FCI) Nu argeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day, Da ilue \$ _6,277,475 or more of the following: | ffice umber Date of Last Audit 2015 |
| 3) Fac 4) Fac 5) Fac 6) Fac Actu (Des 7) Fac 24/3 8) Fac 9) Masa a) | ility Area/Age GSF 20,244 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta scribe) Desk audit, last physica scribe) Desk audit, last physica | <u>ASF 20,032</u> <u>Classroom, laboratory, of</u> <u>Classroom, laboratory, of</u> <u>cility Condition Index (FCI) Nu</u> argeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day, Da <u>clue \$ 6,277,475</u> or more of the following: than five (5) years. | ffice umber Date of Last Audit 2015 |
| 3) Fac 4) Fac 5) Fac 6) Fac 6) Fac (Des (Des 7) Fac 24/3 8) Fac 9) Mas a) b) | ility Area/Age GSF 20,240 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta scribe) Desk audit, last physica scribe) Desk audit, last physica ility - Intensity of Use, Time(s) 30/12 ility - Current Replacement Va ster Plan Status - Check one o Facility 'useful' life is less X Facility 'useful' life is mor | ASF 20,032 <u>Classroom, laboratory, of</u> <u>Classroom, laboratory, of</u> <u>cility Condition Index (FCI) Nu</u> <u>argeted FCI = 100</u> <u>al audit was in 2008</u> <u>of Operation: (Hours/Day, Da</u> <u>clue \$ 6,277,475</u> <u>or more of the following:</u> <u>c than five (5) years.</u> <u>re than five (5) years.</u> | ffice umber Date of Last Audit 2015 ays/Month, Months/Year) |
| 3) Fac 4) Fac 5) Fac 6) Fac Actu (Des 7) Fac 24/3 8) Fac 9) Masa a) | ility Area/Age GSF 20,244 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa ial FCI = 63 Ta scribe) Desk audit, last physica scribe) Desk audit, last physica ility - Intensity of Use, Time(s) 30/12 ility - Current Replacement Va ster Plan Status - Check one o Facility 'useful' life is less X Facility 'useful' life is mor Master Plan is obsolete; Major facility changes, re | ASF 20,032 <u>Classroom, laboratory, of</u> <u>Classroom, laboratory, of</u> <u>Cla</u> | ffice umber Date of Last Audit 2015 ays/Month, Months/Year) |
| 3) Fac 4) Fac 5) Fac 6) Fac (Des (Des 7) Fac 24/3 8) Fac 9) Mas a) b) c) d) | ility Area/Age GSF 20,240 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa al FCI = 63 Ta scribe) Desk audit, last physica scribe) Desk audit, last physica ility - Intensity of Use, Time(s) 30/12 ility - Current Replacement Va ster Plan Status - Check one o Facility 'useful' life is less X Facility 'useful' life is mor Master Plan is obsolete; Major facility changes, re next five years, (If yes, pl may have an impact on the | ASF 20,032 <u>Classroom, laboratory, of</u> <u>Classroom, laboratory, of</u> <u>Cla</u> | ffice umber Date of Last Audit 2015 ays/Month, Months/Year) B/CDHE) ons are ongoing or anticipated in the |
| 3) Fac 4) Fac 5) Fac 6) Fac (Des (Des 7) Fac 24/3 8) Fac 9) Mas a) b) c) d) 10) Fac | <pre>ility Area/Age GSF 20,240 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa aal FCI = 63 Ta scribe) Desk audit, last physical cility - Intensity of Use, Time(s) 30/12 cility - Current Replacement Va ster Plan Status - Check one o Facility 'useful' life is less X Facility 'useful' life is mor Master Plan is obsolete; Major facility changes, re next five years, (If yes, pl may have an impact on th acility Audit Survey:</pre> | ASF 20,032 <u>Classroom, laboratory, of</u> <u>Classroom, laboratory, of</u> <u>cility Condition Index (FCI) Nu</u> <u>argeted FCI = 100</u> <u>al audit was in 2008</u> of Operation: (Hours/Day, Data <u>alue \$ 6,277,475</u> <u>or more of the following:</u> <u>than five (5) years.</u> <u>than five (5) years.</u> <u>than five (5) years.</u> <u>Last Date Approved (by OSP</u> <u>enovations, or program revision</u> <u>lease explain below if these fa</u> <u>his CM request.</u>) | ffice umber Date of Last Audit 2015 ays/Month, Months/Year) B/CDHE) ons are ongoing or anticipated in the |
| 3) Fac 4) Fac 5) Fac 6) Fac (Des (Des 7) Fac 24/3 8) Fac 9) Mas a) b) c) d) | ility Area/Age GSF 20,240 ility Functional Use/Occupancy ility Construction (Type) ility Physical Condition and Fa al FCI = 63 Ta scribe) Desk audit, last physica scribe) Desk audit, last physica ility - Intensity of Use, Time(s) 30/12 ility - Current Replacement Va ster Plan Status - Check one o Facility 'useful' life is less X Facility 'useful' life is mor Master Plan is obsolete; Major facility changes, re next five years, (If yes, pl may have an impact on the | 6 ASF 20,032 y Classroom, laboratory, of cility Condition Index (FCI) Nuargeted FCI = 100 al audit was in 2008 of Operation: (Hours/Day, Date of Operation: (Hours/Day, Date of of Operation: (Hours/Day, Date of more of the following: of than five (5) years. te than five (5) years. Last Date Approved (by OSP enovations, or program revision lease explain below if these fathis CM request.) ded and submitted to SBP - | ffice umber Date of Last Audit 2015 ays/Month, Months/Year) B/CDHE) ons are ongoing or anticipated in the acility renovations or program revision |

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | |
|-------------|--|
|-------------|--|

Completion date or status

C. INTEGRATED PROGRAM PLAN DATA

Project Title

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Exterior walls of building are cracked and showing signs of distress. Original windows are in need of replacement. In 2013 CSU installed helical piers to stabilize the foundation and prevent further disruption. Project includes repair of sagging structural beam, existing brick walls and window sills, replace windows, replace overhead door and roof replacement.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$1,992,564

3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The Construction Management Department is interested in working with industry partners to revitalize the interior of the Industrial Sciences Building. However, the exterior improvements must be done in advance. This is a chance for University and State partnership to revitalize an existing historic building.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

The FCI will be greatly improved with the exterior and foundation repairs and further improved with eventual industry partnership on the interior upgrades.

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

| 1) Approved By | Mike Rush | 2) Phase? | 1 of 1 | |
|-----------------------|-------------|--------------------------------------|--------|--|
| 3) Method and Date of | of Estimate | Hensel Phelos and Mortenson estimate | | |

| Professional Servic | es |
|---|----|
|---|----|

| Site Surveys, Investigations, and Reports: | |
|--|-----------|
| Arch/Eng/Basic Services: | 67,844 |
| Code Review/Inspection: | 8,000 |
| Other (Explain): PM fee | 57,138 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$132,982 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| <u>WORK ITEM</u> (Labor/Material/Equipment) | <u>UNIT</u> <u>sf, cf, lf, etc.</u> | UNIT COST | EXTENDED COST |
|--|--|---------------------|---------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| b) Site Improvements: | | | |
| Structure/Systems/Components | | | |
| Foundation and roof beams | 20,246 sf | \$1.24/sf | 25,030 |
| Exterior walls,doors, windows | 20,246 sf | \$48.29/sf | 977,734 |
| Roof replacement | 20,246 sf | \$22.56/sf | 456,750 |
| Other(explain): | | | |
| Contractor's General Conditions: | | | 116,761 |
| Contractor's Overhead & Profit: | | | 102,166 |
| Inflation Percentage/dollar amount: (required for each out year phase) | 996 | , | |
| Total of Construction Improvement Costs: | | | \$1,678,440 |
| 5a) Total square feet/lineal feet of Construction In 5b) Overall cost per square foot/lineal foot of cons 6) Miscellaneous (explain) | | \$ | |
| | | | |
| Total of Miscellaneous Costs: | | A Contract | \$ |
| 7) Project Contingency | | | |
| Contingency (10% CM) (Percentage of total of pro improvements, and miscellaneous costs.) | ofessional services, con | struction | 181,142 |
| 8) Total Cost of the Project (single phase) or Tota | I for this specific Phase | of all professional | \$1,992,564 |

Note: Agency formatted cost estimates may accompany this page.

services (4), construction improvements(5), miscellaneous costs(6), and project

contingency(7)

Page 3 of 4

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|-------------------------|---|
| | FY 2013/2014 | 1 | |
| and shares | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 1 | 1,992,564 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$ |

(Subtotal)

TOTAL PROJECT DOLLAR AMOUNT

\$1,992,564

(All Prior, Future Phases subtotals and Current Dollar amount)

- ¹ List all previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.
- ² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | то |
|---------------------------------------|------------|-----------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | _July 2017 | Feb 2018 |
| 3. Construction (Insert Dates) | March 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |

\$



HENSEL PHELPS

Plan. Build. Manage.

Job Name

CSU IS Labs Exterior Renovation

Owner: Colorado State University

Architect: Colorado State University

Estimate Type: Budget

Current Date: 4-May-2016

Select Office



Hensel Phelps Construction Co.

420 6th Avenue, Greeley, CO 80632 Phone: (970) 352-6565 Fax: (970) 356-4354

Project Summary

Colorado State University is planning the revitalization of the Industrial Science Building #60. The project is planned for a two phase approach the first being to revitalize the building's exterior and the second to be an update the building's interior finishes, mechanical, and electrical systems. Each phase will have separate procurements and funding mechanisms. The phase one exterior revitalization will submit a Capital Construction Request to the State Legislative Council for approval. Phase two will employ a fundraising and donation campaign similar to one previously used to update and renovate the Preconstruction Center adjacent to this projects location.

This report consists of the following exhibits:

Exhibit A – Project Estimate

Exhibit B – Trend Log and Backup

Exhibit C – Glazing Schedule

The Building

The building is believed to have been built around 1925 and originally served as the Mechanical Engineering Building. The building consists of 2 story brick and glass building with a heavy timber structure. Around 2013 Magnum Geo-Solutions, LLC recommended a Helical Pile solution to some settlement issues that had developed over the buildings service. This work is believed to have been completed. The building dimensions are roughly 80' x250' or 20,000 square feet with a peak approximately 21' high. The building consists of a main bay with adjoining lean to bays. The main bay is approximately 20' high 30' wide and 250' long the lean to bays are identical and are approximately 13' high 25' wide and 250' long bays.

Potential Complications

The City of Fort Collins although having no jurisdiction but in the interest of maintaining a neighborly relationship has asked CSU to maintain the appearance to the building's exterior. The existing glazing and roofing systems are inefficient by today's standards and it is recommended that they be replaced in their entirety. Based on conversations the existing structural design does not meet the requirements of modern standards and codes. A structural beam was noticeably sagging during an on-site investigation. A budget has been established to shore up this beam it is recommended that CSU conduct a thorough investigation prior to conducting any work, as this may shift or increase the load on other structural members. All work that increases the loading on structural members needs to been separately investigated by a licensed engineer as budgets for additional fixes have not been included in this pricing. Potential sources of increased structural loading includes but is not limited to any roofing, mechanical, electrical, and glazing work. The exterior glazing will consist of thicker panes of glass and increase the weight of the building. It is also unknown if a hazardous materials assessment has been completed for the building. At this time no abatement or removal of hazardous materials has been included in the budget.



Hensel Phelps Construction Co.

420 6th Avenue, Greeley, CO 80632 Phone: (970) 352-6565 Fax: (970) 356-4354

Phase One Scope

The Exterior Revitalization scope of work consists of the repair of 1 sagging structural beam, repair of existing brick, replacement of broken precast window sills, replacement of Historic Industrial Steel windows with modern reproductions, the repair of 1 historic overhead door, the replacement of 1 modern sectional overhead door, the enlargement of 1 modern sectional overhead door (for CM Cares trailer access), and the removal and replacement of the existing roofing system. It is assumed all foundation and site repairs were previously completed and no additional work is necessary.

The structural repair of the sagging beam consists of sistering the existing beam with two (2) 1-3/4"x11-7/8" microlams with fasteners every 6" on center. This will them be painted white to match the existing ceilings. This solution needs to be verified by a structural engineer.

The existing brick and precast exterior elements require some maintenance. It is recommended that we tuck point the existing mortar system as needed and to replace the precast window sills as required to facilitate the installations of the new glazing system. The existing overhead doors consist of one historic and two modern doors. This budget includes repairs to the historic overhead door and the replacement of the modern doors with motorized and insulated sectional doors. The existing roofing system is assumed to be a built up tar and gravel system. At this time we are unable to determine how many layers are existing but assume less than 2 layers. The new system will be a 60 mil membrane, fully adhered, ¼" per foot tapered with R-30 insulation, and cover board. This systems was selected due to its comparatively low weight compared to a ballasted system and is safer to install compared to a built-up system.

The existing steel windows consist of many missing glass panes, modifications, and suffer from poor thermal performance. It is recommended and has been included in this budget to replace all exterior windows in their entirety. With this solution we have several options available to us based on the University's wishes and goals for the building. We have consulted with Hopes Windows and Wausau Window and Wall Systems and have concluded that the options consist of fixed vs operable and a standard vs performance thermal break glazing systems. The base cost includes a standard performance and fixed window system. The other options have been included and priced in the trend log exhibit C. Please note that if LEED Certification is a goal that it is recommended that operable windows be utilized for the natural ventilation credits.

Recommendation

In conclusion is it is recommended that CSU conduct a structural audit of the building prior to proceeding as the finding of that study may have substantial impact to the projects scope and design. Structural information was not available during the budget assessment and all structural solutions are based off assumptions and no structural data. It is unknown if any structural members are in failure or near failure and how this scope of work may impact their current loading.

It is recommended that further cost estimates be prepared post structural audit and hazardous materials investigation to determine overall cost changes subsequent to the preparation of this preliminary estimate.

CSU IS Labs Exterior Renovation Executive Summary

Owner: Colorado State University Architect: Colorado State University Drawing Date: 8/28/2015 Revision No: 00

| ITEM | AREA | | UNIT COST | TOTAL |
|-----------------------|--------|------|-----------|-------------|
| Exterior Improvements | 20,000 | GSF | \$100.95 | \$2,018,920 |
| Site A Description | 1 | LSUM | \$0 | \$0 |
| Total: | 20,000 | GSF | \$100.95 | \$2,018,920 |



CSU IS Labs Exterior Renovation Budget

Owner: Colorado State University Architect: Colorado State University

Drawing Date: 28-Aug-2015 Revision No: 00

| | PROJECT SECTOR: GROSS FLOOR AREA: | | | tor A provements | Site A Site A | Total GSF Unit Costs 20,000 GSF | | | |
|----------------|--|----|----------|------------------|---|---------------------------------------|---------|-----------|--------|
| | | | | iit Costs | Description | | | | |
| | | | 20,00 | 0 GSF | | | | | |
| 850 | SECONDARY UNIT OF MEASURE : | - | NORE I | AMOUNT | AMOUNT | - line | \$/GSF | EACH | % |
| | PARAMETER | | GSF | AMOUNT | AMOUNT | + | | AMOUNT | 0.00% |
| A10 A1010 | FOUNDATIONS Standard Foundations | ٤ | 0.00 } | 0 | | I. | 0.00 } | 0 | 0.00% |
| A1020 | Special Foundations | | 0.00 | 0 | | | 0.00 | 0 | |
| A1030 | Slab on Grade | | 0.00 | 0 | _ | | 0.00 | 0 | |
| A20 | BASEMENT CONSTRUCTION | { | 0.00 } | 0 | - | 1 | 0.00 } | 0 | 0.00% |
| A2010 | Basement Excavation | | 0.00 | 0 | - | 1 | 0.00 | 0 | |
| A2020 | Basement Walls | | 0.00 | 0 | - / / | | 0.00 | 0 | |
| - | Subtotal - SUBSTRUCTURE | | 0.00 | 0 | - | 1. | 0.00 | 0 | 0.00% |
| B10 B1010 | SUPERSTRUCTURE Floor Construction | K | 1.25 } | 25,030 | | K | 1.25 } | 25,030 | 1.24% |
| B1010 | Roof Construction | | 1.25 | 25,030 | | | 1.25 | 25,030 | |
| B20 | EXTERIOR CLOSURE | 1 | 48.89 } | 977,734 | | 1 | 48.89 } | 977,734 | 48.43% |
| B2010 | Exterior Walls | ľ | 13.71 | 274,198 | - | T. | 13.71 | 274,198 | |
| B2020 | Exterior Windows | | 34.56 | 691,136 | - | | 34.56 | 691,136 | |
| B2030 | Exterior Doors | | 0.62 | 12,400 | - | | 0.62 | 12,400 | |
| B30 | ROOFING | { | 22.84 } | 456,750 | • | { | 22.84 } | 456,750 | 22.62% |
| B3010 | Roof Coverings | | 22.84 | 456,750 | - | - | 22.84 | 456,750 | |
| | Subtotal - SHELL | | 72.98 | 1,459,514 | - | 1. | 72.98 | 1,459,514 | 72.29% |
| C10 C1010 | INTERIOR CONSTRUCTION Partitions | K | 0.00 } | 0 · 0 | • | K | 0.00 } | 0 | 0.00% |
| C1020 | Interior Doors | | 0.00 | 0 | | 1 | 0.00 | 0 | |
| C1030 | Specialties | | 0.00 | 0 | | | 0.00 | 0 | |
| C20 | STAIRS | 1 | 0.00 } | 0 | | 1 | 0.00 } | 0 | 0.00% |
| C2010 | Stair Construction | ľ | 0.00 | 0 | _ | 1 | 0.00 | 0 | |
| C2020 | Stair Finishes | | 0.00 | 0 | - | | 0.00 | 0 | |
| C30 | INTERIOR FINISHES | { | 0.00 } | 0 | - | 1 | 0.00 } | . 0 | 0.00% |
| C3010 | Wall Finishes | | 0.00 | 0 | - | | 0.00 | 0 | |
| C3020 | Floor Finishes | | 0.00 | 0 | - | | 0.00 | 0 | |
| C3030 | Ceiling Finishes | - | 0.00 | 0 | - | - | 0.00 | 0 | 0.00% |
| D10 | Subtotal - INTERIORS | | 0.00 | 0 | - | 1. | 0.00 | 0 | 0.00% |
| D1010 | Elevators & Lifts | 1 | 0.00 } | 0 | | 1 | 0.00 } | 0 | 0.00% |
| D1020 | Escalators & Moving Walks | | 0.00 | 0 | | | 0.00 | 0 | |
| D1090 | Other Conveying Systems | | 0.00 | 0 | - | | 0.00 | 0 | |
| D20 | PLUMBING | { | . 0.00 } | 0 | | 1 | 0.00 } | 0 | 0.00% |
| D2010 | Plumbing Fixtures | | 0.00 | 0 | - | | 0.00 | 0 | |
| D2020 | Domestic Water Distribution | | 0.00 | 0 | - | | 0.00 | 0 | |
| D2030 | Sanitary Waste | | 0.00 | 0 | - | | 0.00 | 0 | |
| D2040 | Rain Water Drainage | | 0.00 | 0 | - | 1 | 0.00 | 0 | 1.2.1 |
| D2090 D30 | Other Plumbing Systems HVAC | 1 | 0.00 } | 0 | - | 1 | 0.00 | 0 | 0.00% |
| D3010 | Energy Supply | ľ | 0.00 | 0 | | 1 | 0.00 | 0 | 0.00 % |
| D3020 | Heat Generating Systems | | 0.00 | 0 | | | 0.00 | 0 | |
| D3030 | Cooling Generating Systems | | 0.00 | 0 | - | | 0.00 | 0 | |
| D3040 | Distribution Systems | | 0.00 | 0 | - | | 0.00 | 0 | |
| D3050 | Terminal & Package Units | | 0.00 | 0 | - | | 0.00 | 0 | |
| D3060 | Controls & Instrumentation | | 0.00 | 0 | - | | 0.00 | 0 | |
| D3070 | Systems Testing & Balancing | | 0.00 | 0 | - | | 0.00 | 0 | |
| D3090 | Other HVAC Systems & Equipment | - | 0.00 | 0 | - | + | 0.00 | 0 | 0.0001 |
| D4010 | FIRE PROTECTION | 1 | 0.00 } | 0 | - | 1 | 0.00 } | 0 | 0.00% |
| D4010 D4020 | Sprinklers Standpipe Systems | | 0.00 | 0 | - | | 0.00 | 0 | |
| D4020 | Fire Protection Specialties | | 0.00 | 0 | | | 0.00 | 0 | |
| D4090 | Other Fire Protection Systems | | 0.00 | 0 | | | 0.00 | 0 | |
| D50 | ELECTRICAL | 1 | 0.45 } | 9,000 | | 1 | 0.45 } | 9,000 | 0.45% |
| D5010 | Electrical Service & Distribution | 1 | 0.00 | 0 | - | ľ | 0.00 | 0 | |
| D5020 | Lighting & Branch Wiring | | 0.45 | 9,000 | - | | 0.45 | 9,000 | |
| D5030 | Communications & Security | | 0.00 | 0 | - | | 0.00 | 0 | |
| D5090 | Other Electrical Services | - | 0.00 | 0 | - | - | 0.00 | 0 | |
| | Subtotal - SERVICES | 1. | 0.45 | 9,000 | • | | 0.45 | 9,000 | 0.45% |
| E10 | EQUIPMENT | K | 0.00 } | 0 | • | 1 | 0.00 } | 0 | 0.00% |
| E1010 E1020 | Commercial Equipment | 1 | 0.00 | 0 | - | | 0.00 | 0 | |
| E1020 | Institutional Equipment Vehicular Equipment | | 0.00 | 0 | | 1 | 0.00 | 0 | |
| | echould Equipment | 1 | | | | 1 | | | |
| E1090 | Other Equipment | | 0.00 | 0 | and the second se | | 0.00 | 0 | |

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Estimator: CJK, Estimate Checker: TBD Current Date: 4-May-2016 Workbook: CSU IS Lab Exterior Renovation 5-03-16.xtsm

CSU IS Labs Exterior Renovation Budget

Owner: Colorado State University Architect: Colorado State University

| PROJECT SECTOR: GROSS FLOOR AREA: SECONDARY UNIT OF MEASURE : | | Sect Exterior Imp | | Site A Site A | т | otal | |
|---|---|----------------------|---|--|----------------|---|-------|
| | | GSF Un | the second se | Description | GSF U | nit Costs | |
| | | { G | | | | GSF | |
| | | } | | | } EACH | | |
| SEC. | PARAMETER | \$/GSF | AMOUNT | AMOUNT | \$/GSF | AMOUNT | % |
| 2010 | Fixed Furnishings | 0.00 | 0 | - | 0.00 | 0 | |
| 2020 | Moveable Furnishings | 0.00 | 0 | - | 0.00 | 0 | 0.009 |
| | Subtotal - EQUIPMENT & FURNISHINGS | 0.00 | 0 | | 0.00 | 0 | 0.009 |
| F10 | SPECIAL CONSTRUCTION | { 0.00 } | 0 | | 0.00 | 0 | 0.00 |
| 1010 | Special Structures | 0.00 | 0 | | 0.00 | 0 | |
| 1020 | Integrated Construction | 0.00 | 0 | | 0.00 | 0 | |
| 1030 | Special Construction Systems | 0.00 | 0 | | 0.00 | 0 | |
| 1040 | Special Facilities | 0.00 | o | | 0.00 | 0 | |
| 1050 | Special Controls & Instrumentation SELECTIVE BUILDING DEMOLITION | { 0.44 } | 8,803 | | { 0.44 } | 5,803 | 0.44 |
| F20 | | 0.44 | 8,803 | | 0.44 | 8,803 | 0.44 |
| 2010 | Building Elements Demolition Hazardous Components Abatement | 0.00 | 0,000 | | 0.00 | 0,000 | |
| 2020 | Subtotal - SPECIAL CONST. & DEMO | 0.44 | 8,803 | | 0.44 | 8,803 | 0.44 |
| | Subtotal - SPECIAL CONST. & DEMO | 73.87 | 1,477,317 | and the second | 73.87 | 1,477,317 | 73.17 |
| | SITE PREPARATIONS | 13.01 | 1,411,411 | 0 | 10.01 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0.009 |
| G10 | | | | 0 | | 0 | 0.00 |
| S1010 | Site Clearing Site Demolition & Relocations | | | 0 | | 0 | |
| | Site Earthwork | | | 0 | | 0 | |
| 51030 51040 | Hazardous Waste Remediation | A STATE OF STATE OF | | 0 | | 0 | |
| G20 | SITE IMPROVEMENTS | | | 0 | | 0 | 0.00 |
| 52010 | Roadways | | | 0 | | 0 | |
| 52020 | Parking Lots | | State Study | 0 | | 0 | |
| 52020 | Pedestrian Paving | | | 0 | | 0 | |
| 52040 | Site Development | | | 0 | | 0 | |
| 52050 | Landscaping | | | 0 | | 0 | |
| G30 | SITE CIVIL / MECHANICAL UTILITIES | | | 0 | | 0 | 0.00 |
| 3010 | Water Supply | | | 0 | and the second | 0 | |
| 3020 | Sanitary Sewer | | | 0 | | 0 | |
| 3030 | Storm Sewer | | | 0 | | 0 | |
| 3040 | Heating Distribution | | | 0 | | 0 | |
| 3050 | Cooling Distribution | | | 0 | | 0 | |
| 3060 | Fuel Distribution | | | 0 | | 0 | |
| 3090 | Other Site Mechanical Utilities | | | 0 | | 0 | |
| G40 | SITE ELECTRICAL UTILITIES | | | 0 | | 0 | 0.00 |
| 4010 | Electrical Distribution | | | 0 | | 0 | |
| 4020 | Site Lighting | | 1219.63 | 0 | | 0 | |
| 4030 | Site Communication & Security | | | 0 | | 0 | |
| 4090 | Other Site Electrical Utilities | | | 0 | | 0 | |
| G90 | OTHER SITE CONSTRUCTION | | | 0 | | 0 | 0.00 |
| 9010 | Service & Pedestrian Tunnels | | | 0 | | 0 | |
| 9090 | Other Site Construction | | | 0 | | 0 | |
| | Subtotal - BUILDING SITEWORK | | | 0 | | 0 | 0.00 |
| | Subtotal - Building and Site | 73.87 | 1,477,317 | 0 | 73.87 | 1,477,317 | 73.17 |
| | GENERAL CONDITIONS | | | | | 100.000 | |
| 1010 | General Conditions | 9.50 | 190,000 | 0 | 9.50 | 190,000 | 9.41 |
| 1015 | Vertical Hoisting | 0.00 | None | None | 0.00 | None 100 000 | 0.44 |
| | Subtotal - GENERAL CONDITIONS | 9.50 | 190,000 | 0 | 9.50 | 190,000 | 9.41 |
| | INDIRECTS & RESERVES | | | | 0.00 | | 0.00 |
| 1020 | Contractor's Bonds | 0.00 | 0 | 0 | 0.00 | 22 160 | 0.00 |
| 1025 | Subcontractor & Supplier Bonds | 1.11 | 22,160 | 0 | 1.11 | 22,160 By Ourser | 1.10 |
| 1030 | Builder's Risk Insurance | 0.00 | By Owner | By Owner | 0.00 | By Owner 10,936 | 0.54 |
| 1040 | General Liability Insurance | 0.55 | 10,936 | Buchan | 0.55 | By Owner | 0.54 |
| 1050 | Permits | 0.00 | By Owner | By Owner | 0.00 | By Owner By Owner | |
| 1070 | A & E Design Costs | 0.00 | By Owner | By Owner By A/E | 0.00 0.00 | By A/E | 1. |
| 1080 | Professional Liability Insurance | 0.00 | By A/E | | 0.00 | Not Regd. | |
| 1090 | Gross Receipts Tax | 0.00 | Not Reqd. | Not Reqd. | 0.00 | By Owner | |
| 1100 | Utility Development & Tap Fees | 0.00 | By Owner | By Owner | 0.00 | None | |
| 1110 | Hazardous Material Abatement | 0.00 | None | None By Owner | 0.00 | By Owner | 1 |
| 1120 | Testing & Inspections | 0.00 | By Owner | By Owner | | 80,757 | 4.00 |
| 1130 | Escalation | 4.04 | 80,757 | 0 | 4.04 6.34 | 126,711 | 6.28 |
| 1140 | Bidding & Construction Reserves | 6.34 | 126,711 | With GC's | 0.00 | With GC's | 0.20 |
| 1150 | Preconstruction Costs | 0.00 | With GC's | With GC's With GC's | | With GC's | |
| 1160 | Building Information Modeling (BIM) | 0.00 | With GC's | WILLI GU'S | 0.00 2.52 | 50,473 | 2.50 |
| 1190 | G & A - Corporate mation contained in this estimate is the proprietary | 2.52 | 50,473 | U | 6.06 | 00.4/3 | |

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Estimator: CJK, Estimate Checker: TBD Current Date: 4-May-2016 Workbook: CSU IS Lab Exterior Renovation 5-03-16.xlsm

Page 2 of 3

CSU IS Labs Exterior Renovation Budget

Owner: Colorado State University Architect: Colorado State University

HENSEL PHELPS Plan. Build. Manage.

Drawing Date: 28-Aug-2015 Revision No: 00

| | PROJECT SECTOR: | Sector A Exterior Improvements | | Site A Site A | Total | | |
|-------|--|-----------------------------------|-----------|------------------|-----------------|-----------|---------|
| | | GSF U | nit Costs | Description | GSF Unit Costs | | |
| | GROSS FLOOR AREA: SECONDARY UNIT OF MEASURE : | 0 GSF 0 | | | 0 GSF 0 EACH | | |
| SEC. | PARAMETER | \$/GSF | AMOUNT | AMOUNT | \$/GSF | AMOUNT | % |
| | Subtotal - INDIRECTS & RESERVES | 14.55 | 291,036 | 0 | 14.55 | 291,036 | 14.42% |
| Z1060 | Contractor's Fee | 3.03 | 60,568 | 0 | 3.03 | 60,568 | 3.00% |
| | Subtotal - FEES | 3.03 | 60,568 | 0 | 3.03 | 60,568 | 3.00% |
| | TOTAL CONSTRUCTION COST | 100.95 | 2,018,920 | 0 | 100.95 | 2,018,920 | 100.00% |
| | SECONDARY UNIT COST | | | - | 0 | EACH | |

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Page 3 of 3

Estimator: CJK, Estimate Checker: TBD Current Date: 4-May-2016 Workbook: CSU IS Lab Exterior Renovation 5-03-16.xlsm Boeckh's Data: Fort Collins, CO / Educational / Construction Type / 2000 / May - Jun 2016





Owner: Colorado State University Architect: Colorado State University

Drawing Date: 8/28/2015 Revision No: 00

| PARAMETER / ITEM OF WORK FSR USER 2 USE | | UNIT | \$/UNIT | TOTAL |
|--|---|---------------|----------|------------|
| A - Exterior Improvements | (20,000 | GSF) | | |
| 10 - FOUNDATIONS | | | | |
| A1010 - Standard Foundations None Included | | | | |
| | | | | |
| | | | | |
| | | - | - | |
| | A1010 Subtotal | - | 0.00 | |
| A1020 - Special Foundations | A TOTO SUBJULI | | | |
| A102001 - Pile Foundations | 1 | LSUM | | Not Requ |
| Existing to remain | | | | |
| | | | | |
| | | - | - | - |
| | A1020 Subtotal | | 0.00 | |
| A1030 - Slab on Grade | | 122 12 | | |
| None Included | - | - | - | |
| | | - | | |
| 20 - BASEMENT CONSTRUCTION | A1030 Subtotal | | 0.00 | |
| A2010 - Basement Excavation | | | | |
| None Included | - | - | - | |
| | - | - | - | |
| | A2010 Subtotal | | 0.00 | |
| A2020 - Basement Walls None Included | | - [| - [| |
| None included | - | - | - | No. |
| | A2020 Subtotal | 1000 | 0.00 | |
| 10 - SUPERSTRUCTURE | | | | |
| B1010 - Floor Construction | | - 1 | | |
| | | - | - | |
| | B1010 Subtotal | | 0.00 | |
| B1020 - Roof Construction | | | | |
| Enlarged OH Door Framing | 1 | SQFT | | |
| Steel Lintel | 16 | LNFT | 30.00 | |
| Structural Steel for Enlarged OH Door | 1 | LSUM | 8,500.00 | 8, |
| Reinforce sagging 6x12 Beam | The second se | | | 1977 |
| Equipment Jack Rental for temporary support | 5 | Days | 350.00 | 1, |
| 1-3/4"x11-7/8" Microlam sister beam 1 each side on 20' Span fasteners | | | | |
| staggered every 6" | 60 | LNFT | 80.00 | 4, |
| Tools, clamps, adhesives, disposables. | 1 | LSUM | 500.00 | 1. |
| Anchors, fasteners, connectors | 1 | WK | 2,500.00 | 2, |
| Painting of Microlams and Hardware | 1 | LSUM | 1,500.00 | 1, |
| Roof Deck Infill/ Repair Allowance | | Sector Sector | | and the |
| Large Openings - Greater than 24" SQ | 1 | LSUM | 2,500.00 | 2, |
| Small Openings - Less than 24" SQ | 1 | LSUM | 1,500.00 | 1, |
| | | - | - | |
| | B1020 Subtotal | | 1.25 | 25, |
| 20 - EXTERIOR CLOSURE | | | | |
| B2010 - Exterior Walls | | DOFT | | |
| B201001 - Exterior Closure Repair ALLOWANCE(S) | 6,150 | SQFT SQFT | 6.15 | 37, |
| Air Barrier @ Exterior Brick Surfaces 1 sided Prefinished Interior Metal Wall Panel Assembly @ 1st Floor | 0,130 | Juli | 0.10 | 57, |
| Exterior Perimeter | 6,150 | SQFT | 27.85 | 171, |
| Tuck Point Brick Mortar Repair | | SQFT | 8.50 | 1, |
| Replace Precast Window Sills | 80 | LNFT | 27.00 | 2, |
| Caulking and Sealants | 1,000 | LNFT | 1.50 | 1, |
| Wood Trim @ 2nd Floor Header and Sill | 1,000 | LNFT | 8.50 | 8, |
| Jambs | 28 | LNFT | 8.50 | |
| Exterior Siding | | | | |
| Green - Insulated Metal Wall Panels | 320 | SQFT | 50.00 | 16, 30, |
| Paint Panel Siding, HM Doors, HM Frames, and OH Doors | 20,000 | SQFT EACH | 1,250.00 | 5, |
| Repaint Metal Ladder | - 10.00 | - | - | |
| | B2010 Subtotal | | 13.71 | 274, |
| B2020 - Exterior Windows | | | | |
| B202001 - Windows | | SQFT | | |
| Reproduction Historic Steel Windows - Hopes Landmark175 Fixed | 3,568 | SQFT | 140.00 | 499, |
| Windows - at 1st floor only | 3,508 | | 50.00 | 499, |
| Kalwall at Clearstory Space | 968 | LNFT | 1.50 | 1,0, |
| Caulking Temporary Window Enclosure | | 1 | | |
| 2x4's with 4x8 OSB Sheathing for Temporary overnight enclosure of the | | | | |
| building | 1,784 | SQFT | 8.50 | 15, |
| | | | | |
| | - | - | | |
| | - | - | - | |





Date Printed: 04-May-2016

Owner: Colorado State University Architect: Colorado State University Drawing Date: 8/28/2015 Revision No: 00

| PARAMETER / ITEM OF WORK FSR USER 2 USER 3 USER 4 | | UNIT | \$/UNIT | TOTAL |
|--|--|-------|-----------------------|---------------------------------|
| A - Exterior Improvements | (20,000 | GSF) | | |
| 20 - EXTERIOR CLOSURE - (Cont.) | | | | |
| B2030 - Exterior Doors | | | and the second second | |
| B203001 - HM Doors - to remain as is. | | EACH | a here a | Not Require |
| B203004 - Overhead & Roll-up Doors | | | 4 500 00 | 4.50 |
| Historic Overhead Door Repair | 1 | EACH | 4,500.00 | 4,50 |
| Replace Overhead Door w/ larger 12x12 w/ Motorized Sectional and | | | 4 450 00 | 4.45 |
| Insulated Door | 1 | EACH | 4,150.00 | 4,15 |
| Replace Overhead Door 10x12 w/ Motorized Sectional and Insulated | | FLOU | 0.750.00 | 2 75 |
| Door | . 1 | EACH | 3,750.00 | 3,75 |
| | - | - | - | |
| | - | - | | THE R. LEWIS CO., LANSING MICH. |
| | B2030 Subtotal | | 0.62 | 12,40 |
| 30 - ROOFING | | | | |
| B3010 - Roof Coverings | | | | |
| B301002 - Low Slope Membrane Systems | | COFT | 2.50 | 50,00 |
| Remove existing roofing system | 20,000 | SQFT | 2.50 | 50,00 |
| New Membrane Roofing System 60 Mil Fully Adhered 1/4"/ FT taper R- | | DOFT | 10.00 | 360,00 |
| 30 Polyiso Insulation with Cover board | 20,000 | SQFT | 18.00 3,500.00 | 3,50 |
| Misc. Penetrations | 1 | LSUM | | |
| New Mechanical/ Electrical Supports and Pads | 1 | LSUM | 5,000.00 | 5,00 |
| Walkpads/ Pavers | 280 | LNFT | 28.00 | 7,8 |
| Expansion Joint | 1 | LSUM | 7,500.00 | 7,50 |
| B301004 - Flashings & Trim | | SQFT | | w/ Abc |
| B301005 - Gutters & Downspouts | | LNFT | | w/ Bel |
| Gutters/ Downspouts | 1,120 | LNFT | 6.75 | 7,5 |
| Splash Blocks | 10 | | 35.00 | 3 |
| B301006 - Roof Openings & Supports | | SQFT | | |
| Raise existing Rooftop Curb Repair/ Replace - ALLOWANCE | 1 | LSUM | 15,000.00 | 15,0 |
| | - | - | - | |
| | - | - | - | |
| | B3010 Subtotal | | 22.84 | 456,7 |
| C10 - INTERIOR CONSTRUCTION | | | | |
| C1010 - Partitions | | | | |
| | | | | |
| None Included | - | - | - | The Local Stars |
| | - | - | - | |
| | C1010 Subtotal | | 0.00 | |
| | CTUTU Subtotal | | 0.00 | |
| C1020 - Interior Doors | | 1 | | |
| None Included | | - | - | |
| | - | - | | |
| | - | | 0.00 | |
| | C1020 Subtotal | | 0.00 | |
| C1030 - Specialties | | - | | |
| None Included | | | | |
| | - | - | - | |
| | - | | | |
| | C1030 Subtota | 1 | 0.00 | |
| C20 - STAIRS | | | | |
| C2010 - Stair Construction | Cart Cart Cart Cart | _ | | 1 |
| None Included | | FLGT | | |
| | - | - | - | |
| | - | - | - | |
| | C2010 Subtota | 1 | 0.00 | |
| C2020 - Stair Finishes | 1. | | | |
| None Included | | SQFT | | |
| | - | - | - | |
| | - | - | - 1.1 | - |
| | C2020 Subtota | ıl | 0.00 | |
| C30 - INTERIOR FINISHES | | | | |
| | | | | A |
| C3010 - Wall Finishes None Included | | | | |
| | | - | - | |
| | - | - | - | |
| | C3010 Subtota | | 0.00 | |
| CO222 Flags Finisher | | | | and a stall |
| C3020 - Floor Finishes | | | | |
| None Included | - | - | - | |
| | - | | - | |
| | C3020 Subtota | | 0.00 | - Contraction of the second |
| | CJUZU SUDIDIA | | 0.00 | |
| C3030 - Ceiling Finishes | | 1 | T | 1 |
| | | | - | |
| None Included | - | - | | |
| None Included | - | | - | - |
| None Included | | | 0.00 | |
| None Included | C3030 Subtota | ai | | |
| | | 21 | | |
| D10 - CONVEYING | | | | |
| D10 - CONVEYING D1010 - Elevators & Lifts | | STOP | | |
| D10 - CONVEYING | | STOP | | |
| D10 - CONVEYING D1010 - Elevators & Lifts | C3030 Subtota | STOP | | |

Hensel Phelps

Date Printed: 04-May-2016

Owner: Colorado State University Architect: Colorado State University Drawing Date: 8/28/2015 Revision No: 00

| PARAMETER / ITEM OF WORK FSR | USER 2 USER 3 USER 4 | QUANTITY | UNIT | \$/UNIT | TOTAL |
|--|--|---|---------|----------------------------------|-----------------|
| A - Exterior Improvements | | (20,000 | GSF |) | and the second |
| 10 - CONVEYING - (Cont.) | | | | | |
| D1020 - Escalators & Moving Walks | | 1 | | TT | |
| None Included | | - | - | | |
| | | - | - | - | |
| | | D1020 Subtotal | | 0.00 | |
| D1090 - Other Conveying Systems | | | | | |
| None Included | · · · · · · · · · · · · · · · · · · · | - | - | | |
| | | - | - | - | |
| | | D1090 Subtotal | | 0.00 | |
| 20 - PLUMBING | | | | | |
| D2010 - Plumbing Fixtures | | 1 | | TT | |
| None Included | | - | - | - | |
| | | D2010 Subtotal | | 0.00 | |
| D2020 - Domestic Water Distribution | | | | | |
| None Included | | - | - | - | |
| | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | - | - | - | |
| D2030 - Sanitary Waste | | D2020 Subtotal | | 0.00 | |
| None Included | | - | - | | |
| | | - | - | - | |
| | | D2030 Subtotal | | 0.00 | |
| D2040 - Rain Water Drainage | | 1 | | | - |
| None Included | | - | - | - | |
| | | D2040 Subtotal | | 0.00 | |
| D2090 - Other Plumbing Systems | | | 1 | | |
| None Included | | - | - | - | |
| | and the second | - | - | - | |
| 0 - HVAC | | D2090 Subtotal | | 0.00 | |
| D3010 - Energy Supply | | | | | |
| None Included | | - | - | - | |
| | | - | - | - | |
| | | D3010 Subtotal | | 0.00 | |
| D3020 - Heat Generating Systems None Included | | - | - | - [| |
| None included | | - | - | - | - |
| | | D3020 Subtotal | | 0.00 | |
| D3030 - Cooling Generating Systems | | | | | China Mi |
| None Included | | - | - | - | |
| | | D3030 Subtotal | - | | |
| D3040 - Distribution Systems | | D3030 Subtotal | | 0.00 | |
| None Included | | - | - | - | |
| | | - 1.5 | | - | |
| | | D3040 Subtotal | | 0.00 | |
| D3050 - Terminal & Package Units | | - | | | |
| None Included | | - | - | | |
| | | D3050 Subtotal | 100.005 | 0.00 | |
| D3060 - Controls & Instrumentation | | | | | |
| None Included | | - | - | - | |
| | | - | - | - | |
| Parta Custom Testing & Palancing | | D3060 Subtotal | | 0.00 | |
| D3070 - Systems Testing & Balancing None Included | the second s | - | - | | Constant of the |
| Hono Indiada | | - | - | | |
| | | D3070 Subtotal | | 0.00 | |
| | | 1 | - | | |
| D3090 - Other HVAC Systems & Equipment | | | | - | |
| D3090 - Other HVAC Systems & Equipment None Included | | - | - | | |
| | | - | - | | |
| None Included | | | - | 0.00 | |
| None Included | | - D3090 Subtotal | - | 0.00 | |
| None Included | | D3090 Subtotal | - | 0.00 | |
| None Included D - FIRE PROTECTION D4010 - Sprinklers | | - D3090 Subtotal - - | - | 0.00 | |
| None Included - FIRE PROTECTION D4010 - Sprinklers None Included | | D3090 Subtotal | - | 0.00 | |
| None Included 0 - FIRE PROTECTION D4010 - Sprinklers None Included D4020 - Standpipe Systems | | - D3090 Subtotal - - | - | 0.00 | |
| None Included D - FIRE PROTECTION D4010 - Sprinklers None Included | | D3090 Subtotal | - | 0.00 - - - 0.00 | |
| None Included D - FIRE PROTECTION D4010 - Sprinklers None Included D4020 - Standpipe Systems | | - D3090 Subtotal - - D4010 Subtotal | - | 0.00 , 0.00 - | |
| None Included D - FIRE PROTECTION D4010 - Sprinklers None Included D4020 - Standpipe Systems None Included D4030 - Fire Protection Specialties | | - D3090 Subtotal - D4010 Subtotal - D4020 Subtotal | - | 0.00 | |
| None Included 0 - FIRE PROTECTION D4010 - Sprinklers None Included D4020 - Standpipe Systems None Included | | - D3090 Subtotal - - D4010 Subtotal - - | - | 0.00 - - 0.00 - - | |

Owner: Colorado State University Architect: Colorado State University Drawing Date: 8/28/2015 Revision No: 00

| ER 3 USER 4 QUANTITY | UNIT | \$/UNIT | TOTAL |
|--|--|---|---|
| (20,000 (| GSF) | | |
| | | | |
| | | | |
| | | | |
| D4090 Subtotal | | 0.00 | |
| | | | |
| | | | |
| | | | |
| | - | | |
| D5010 Subtotal | | 0.00 | |
| | SQFT | | |
| 9 | EACH | 1,000.00 | 9,0 |
| | | | |
| | - | | 9,0 |
| D5020 Subtotal | | 0.45 | 0,0 |
| - | - | - | Sec. Sec. 1 |
| - | - | - | |
| D5030 Subtotal | | 0.00 | |
| | | | |
| - | - | - | |
| DE080 Subtotal | - 1 | 0.00 | |
| Doved Subtotal | | 0.00 | |
| | | | |
| - | - | - | |
| - 100 | - | - | |
| E1010 Subtotal | | 0.00 | |
| | | | |
| | | - | |
| | | 0.00 | |
| | | | 127 |
| - | - | 10-17-010 | |
| - | - | | |
| E1030 Subtotal | | 0.00 | |
| | | | |
| | | | |
| | - | - | |
| E2010 Subtotal | | 0.00 | |
| | | | |
| | | | |
| - | | | |
| E2020 Subtotal | | 0.00 | |
| | | | |
| - | - | - | |
| - | - | - | |
| F1010 Subtotal | | 0.00 | |
| | | | |
| - | - | - | |
| - | | | |
| Piuzu Subtota | | 0.00 | |
| - | - | - | |
| - | - | - | - |
| F1030 Subtota | 1 | 0.00 | |
| | 1 | | |
| | | | |
| | | | |
| - | - | 0.00 | |
| | - | | |
| - F1040 Subtota | - - | 0.00 | |
| - F1040 Subtota | - - | 0.00 | |
| - F1040 Subtota | - - | 0.00 | • |
| - F1040 Subtota | | 0.00 - - 0.00 | |
| F1040 Subtota | - I - I SQFT | 0.00 | - |
| F1040 Subtota | - I SQFT SQFT | 0.00 - - 0.00 3.15 6.00 | - |
| F1040 Subtota | - I SQFT SQFT LSUM | 0.00 - - 0.00 3.15 6.00 500.00 | |
| F1040 Subtota | - I SQFT SQFT LSUM | 0.00 - - 0.00 3.15 6.00 500.00 - | - |
| F1040 Subtota F1040 Subtota F1050 Subtota 2,590 24 1 | - I SQFT SQFT LSUM - | 0.00 - 0.00 3.15 6.00 500.00 - - | |
| F1040 Subtota | - I SQFT SQFT LSUM - | 0.00 - - 0.00 3.15 6.00 500.00 - | |
| F1040 Subtota F1040 Subtota F1050 Subtota 2,590 24 1 | - I SQFT SQFT LSUM - | 0.00 - 0.00 3.15 6.00 500.00 - - | |
| F1040 Subtota F1040 Subtota F1050 Subtota 2,590 24 1 | - I SQFT SQFT LSUM - I LSUM | 0.00 - 0.00 3.15 6.00 500.00 - - | |
| | | D4090 Subtotal - - - - D5010 Subtotal - 9 EACH 9 EACH 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | D4090 Subtotal 0.00 - - - D5010 Subtotal 0.00 SQFT 0.00 9 EACH 1,000.00 - - - D5010 Subtotal 0.45 0 - - D5020 Subtotal 0.45 - - - D5030 Subtotal 0.00 - - - D5090 Subtotal 0.00 - - - D5090 Subtotal 0.00 - - - D5090 Subtotal 0.00 - - - E1010 Subtotal 0.00 - - - E1030 Subtotal 0.00 - - - E1030 Subtotal 0.00 - - - E1030 Subtotal 0.00 E2010 Subtotal 0.00 - - - E2020 Subtota |

Date Printed: 04-May-2016

CSU IS Labs Exterior Renovation Budget

Owner: Colorado State University Architect: Colorado State University

| Drawing | Date: | 28-A | Jg-20 | 015 |
|---------|-------|--------|-------|-----|
| | Re | vision | No: | 00 |

| | PROJECT SECTOR: | Sector A Exterior Improvements | | | Total | | |
|------|--|-----------------------------------|-----------|-----------|----------------------|----------|--|
| | GROSS FLOOR AREA: SECONDARY UNIT : | 20,00 | 00 GSF | | 20,000 GSF 0 EACH | | |
| DIV. | | \$/GSF | AMOUNT | AMOUNT | \$/GSF | AMOUNT | |
| | Demolition | | | | | | |
| 2.01 | Interior Demolition | 0.44 | 8,803 | 0 | 0.44 | 8,80 | |
| | Total Demolition | 0.44 | 8,803 | 0 | 0.44 | 8,80 | |
| | Concrete | | | | | | |
| 3.01 | Architectural Precast | 0.11 | 2,160 | 0 | 0.11 | 2,16 | |
| | Total Concrete | 0.11 | 2,160 | 0 | 0.11 | 2,16 | |
| | Masonry | | | | | | |
| 4.01 | Structural Masonry | 1.98 | 39.523 | 0 | 1.98 | 39.52 | |
| | Total Masonry | 1.98 | 39,523 | 0 | 1.98 | 39,52 | |
| | Structural Steel | | | | | | |
| 5.01 | Structural Steel | 0.45 | 8,980 | 0 | 0.45 | 8,98 | |
| 0.01 | Total Structural Steel | 0.45 | 8,980 | 0 | 0.45 | 8,98 | |
| | Woods and Plastics | 0,40 | 0,000 | | | | |
| 6.01 | Rough Carpentry | 2.72 | 54,452 | o | 2.72 | 54.45 | |
| 0.01 | Total Woods and Plastics | 2.72 | 54,452 | o | 2.72 | 54,45 | |
| | Thermal and Moisture Protection | £.1 £ | 04,402 | | and the | | |
| 7.04 | | 22.84 | 456,750 | 0 | 22.84 | 456.75 | |
| 7.01 | Roofing | 0.15 | 436,750 | 0 | 0.15 | 400,75 | |
| 7.02 | Caulking and Sealants | 22.99 | | 0 | 22.99 | | |
| | Total Thermal and Moisture | 22.00 | 459,702 | 0 | 22.00 | 459,70 | |
| | Doors and Windows | 0.00 | | | 0.00 | | |
| 8.01 | Doors/ Frames/ Hardware | 0.00 | 0 | 0 | 0.00 | 674 55 | |
| 8.02 | Glass and Glazing | 33.73 | 674,520 | 0 | 33.73 | 674,52 | |
| 8.03 | OH Doors | 0.62 | 12,400 | 0 | 0.62 | 12,40 | |
| | Total Doors and Windows | 34.35 | 686,920 | 0 | 34.36 | 686,92 | |
| | Finishes | | | | | | |
| 9.01 | Painting and Coatings | 1.83 | 36,500 | 0 | 1.83 | 36,50 | |
| 9.02 | Wall Assemblies | 8.56 | 171,278 | 0 | 8.56 | 171,27 | |
| | Total Finishes | 10.39 | 207,778 | 0 | 10.39 | 207,77 | |
| | Electrical Systems | | | | | | |
| 6.01 | Electrical Systems | 0.45 | 9,000 | 0 | 0.45 | 9,00 | |
| | Total Electrical Systems | 0.45 | 9,000 | 0 | 0.45 | 9,00 | |
| | | 70.07 | 4 477 247 | 0 | 73.87 | 1,477,31 | |
| | Subtotal - BUILDING & SITE | 73.87 | 1,477,317 | | 13,01 | 1,411,01 | |
| | GENERAL CONDITIONS | | | | | | |
| | General Conditions | 9.50 | 190,000 | 0 | 9.50 | 190.00 | |
| | Vertical Hoisting | 0.00 | None | None | 0.00 | No | |
| | Subtotal - GENERAL CONDITIONS | 9.50 | 190,000 | 0 | 9.50 | 190,00 | |
| | Subtour - GENERAL CONDITIONS | 0.00 | | | | , | |
| | INDIRECTS & RESERVES | | | | | | |
| | Contractor's Bonds | 0.00 | 0 | 0 | 0.00 | | |
| | Subcontractor & Supplier Bonds | 1.11 | 22,160 | 0 | 1.11 | 22,16 | |
| | Builder's Risk Insurance | 0.00 | By Owner | By Owner | 0.00 | By Own | |
| | General Liability Insurance | 0.55 | 10,936 | 0 | 0.55 | 10,93 | |
| | Permits | 0.00 | By Owner | By Owner | 0.00 | By Own | |
| | A & E Design Costs | 0.00 | By Owner | By Owner | 0.00 | By Own | |
| | Professional Liability Insurance | 0.00 | By A/E | By A/E | 0.00 | By A | |
| | Gross Receipts Tax | 0.00 | Not Regd. | Not Regd. | 0.00 | Not Reg | |
| | Utility Development & Tap Fees | 0.00 | By Owner | By Owner | 0.00 | By Own | |
| | Hazardous Material Abatement | 0.00 | None | None | 0.00 | Nor | |
| | Testing & Inspections | 0.00 | By Owner | By Owner | 0.00 | By Own | |
| | Escalation | 4.04 | 80,757 | 0 | 4.04 | 80,75 | |
| | Bidding & Construction Reserves | 6.34 | 126,711 | 0 | 6.34 | 126,7 | |
| | | 0.00 | With GC's | With GC's | 0.00 | With GO | |
| | Preconstruction Costs | 0.00 | With GC's | With GC's | 0.00 | With GO | |
| | Building Information Modeling (BIM) | 2.52 | 50,473 | 0 | 2.52 | 50,47 | |
| | G & A - Corporate Subtotal - INDIRECTS & RESERVES | 14.55 | 291,036 | 0 | 14.55 | 291,03 | |
| | Suntoral - HADINED IS & NEVERALS | | 2011020 | | | | |
| | FEES | | | | | | |
| | Contractor's Fee | 3.03 | 60,568 | 0 | 3.03 | 60,56 | |
| | Subtotal - FEES | 3.03 | 60,568 | 0 | 3.03 | 60,56 | |
| | TOTAL CONSTRUCTION COST | 100.95 | 2,018,920 | 0 | 100.95 | 2,018,92 | |
| | | | | | 0 | EACH | |

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Estimator: CJK, Estimate Checker: TBD Current Date: 4-May-2016 Workbook: CSU IS Lab Exterior Renovation 5-03-16.xlsm Boeckh's Data: Fort Collins, CO / Educational / Construction Type / 2000 / May - Jun 2016

Page 1 of 1

CSU IS Labs Exterior Renovation User Details

Owner: Colorado State University Architect: Colorado State University Drawing Date: 8/28/2015 Revision No: 00

| Description | Sector ID | Level No | Quantity | Unit | \$/Unit | Total |
|--|----------------------|----------------|----------|--------|------------------------------|-------------|
| Concrete | | | | | , | |
| 3.01 - Architectural Precast | | | | | | 2,025 |
| Replace Precast Window Sills | Sector A | B2010 | 75 | LNFT | 27.00 | 2,025 |
| lasonry | | | | | | |
| 4.01 - Structural Masonry | | | | | | 1,700 |
| Tuck Point Brick Mortar Repair | Sector A | B2010 | 200 | SQFT | 8.50 | 1,700 |
| | | | | | | |
| Voods and Plastics 6.01 - Rough Carpentry | | | | | | 41,25 |
| Reinforce sagging 6x12 Beam | Sector A | B1020 | | | | |
| Jack beam for temproary support | Sector A | B1020 | 5 | Days | 350.00 | 1,75 |
| 1-3/4"x11-7/8" Microlam sister beam 1 each side on | Ocolor / C | | | | | |
| 20' Span fastners staggered every 6" | Sector A | B1020 | 60 | LNFT | 80.00 | 4,80 |
| | Sector A | B1020 | 1 | LSUM | 500.00 | 50 |
| Tools, clamps, adhesives, disposables. | | B1020 | 1 | LSUM | 1,000.00 | 1.00 |
| Anchors, fastners, connectors | Sector A | | | | | 2,50 |
| Lifts | Sector A | B1020 | 1 | WK | 2,500.00 | |
| Large Openings - Greater than 24" SQ | Sector A | B1020 | 1 | LSUM | 2,500.00 | 2,50 |
| Small Openings - Less than 24" SQ | Sector A | B1020 | 1 | LSUM | 1,500.00 | 1,50 |
| Wood Casing @ 2nd Floor | Sector A | B2010 | | | | |
| Header and Sill | Sector A | B2010 | 780 | LNFT | 8.50 | 6,63 |
| Jambs | Sector A | B2010 | 16 | LNFT | 8.50 | 1: |
| | Sector A | B2010 | | | | |
| Exterior Siding | | B2010 | 320 | SQFT | 6.00 | 1.93 |
| Panel Siding at 2nd Floor | Sector A | | 520 | SQLI | 0.00 | 1,01 |
| Temporary Window Enclosure | Sector A | B2020 | | | | • • |
| 2x4's with 4x8 OSB Sheathing for Temporary overnight | | | | COTT | 0.50 | 10.0 |
| enclosure of the building | Sector A | B2020 | 2,120 | SQFT | 8.50 | 18,0 |
| Thermal and Moisture Protection | | | | | | |
| 7.01 - Roofing | | | | | | 344,6 |
| | Sector A | B3010 | | SQFT | | |
| B301002 - Low Slope Membrane Systems | | B3010 | 12,840 | SQFT | 2.50 | 32,1 |
| Remove existing roofing system New Membrane Roofing System 60 Mil Fully Adhered | Sector A | B3010 | 12,040 | OQII | 2.00 | 02,1 |
| | | | | | | |
| 1/4"/ FT taper R-30 Polyiso Insulation with Cover | Castan A | D2010 | 12,840 | SQFT | 22.20 | 285,0 |
| board | Sector A | B3010 | | | 3,500.00 | 3,5 |
| Misc. Penetrations | Sector A | B3010 | 1 | LSUM | | |
| Walkpads/ Pavers | Sector A | B3010 | 280 | LNFT | 28.00 | 7,8 |
| Expansion Joint | Sector A | B3010 | 1 | LSUM | 7,500.00 | 7,5 |
| Gutters/ Downspouts | Sector A | B3010 | 1,120 | LNFT | 6.75 | 7,5 |
| Splash Blocks | Sector A | B3010 | 10 | EACH | 35.00 | 3 |
| B301006 - Roof Openings & Supports | Sector A | B3010 | | SQFT | | |
| Rooftop Curb Repair/ Replace | Sector A | B3010 | 1 | LSUM | 800.00 | 8 |
| | | | | | | |
| 7.02 - Caulking and Sealants Caulking | Sector A | B2020 | 968 | LNFT | 1.20 | 1, 1 |
| Caulking | Occior A | DECEC | | | | |
| Doors and Windows | | | | | | |
| 8.01 - Doors/ Frames/ Hardware | Contor A | B2030 | | EACH | | |
| B203001 - HM Doors - to remain as is. | Sector A | B2030 | | LACH | | |
| 8.02 - Glass and Glazing | | | | | | 805,0 |
| Reproduction Historic Steel Windows - Hopes | | | | | | |
| Landmark175 Operable Windows | Sector A | B2020 | 4,240 | SQFT | 190.00 | 805,6 |
| 8.03 - OH Doors | | | | | | 12,0 |
| B203004 - Overhead & Roll-up Doors | Sector A | B2030 | | EACH | | |
| | Sector A | B2030 | 1 | EACH | 4,500.00 | 4,5 |
| Historic Overhead Door Repair | Sector A | B2030 | | LAUIT | 4,000.00 | .,. |
| Replace Overhead Door 12x10 Motorized Sectional and Insulated OH Door | Sector A | B2030 | 2 | EACH | 3,750.00 | 7, |
| | | | | | | |
| Finishes | | | | | | 23, |
| | | | | 101114 | 1,500.00 | 1, |
| 9.01 - Painting and Coatings | Contar A | | | | | |
| Painting of Microlams and Hardware | Sector A | B1020 | 1 | LSUM | 1,500.00 | 1,0 |
| | | | | | | |
| Painting of Microlams and Hardware | Sector A Sector A | B1020 B2010 | 11,200 | SQFT | 1,500.00 1,50 1,250.00 | 16,8 5,0 |



| Windows | R | lough Open | ing | |
|---------|------------|-------------|-----------|--|
| | Width (ft) | Height (ft) | Area (SF) | Notes |
| W-1 | 5 | 8.5 | 42.5 | |
| W-2 | 5 | 8.5 | 42.5 | |
| W-3 | 5 | 8.5 | 42.5 | |
| W-4 | 5 | 13 | 65 | |
| W-5 | 6 | 3 | 14.13 | Entry Arched Window |
| W-6 | 5.5 | 3 | 16.5 | and the second |
| W-7 | 5 | 13 | 65 | |
| W-8 | 5 | 8.5 | 42.5 | |
| W-9 | 5 | 8.5 | 42.5 | |
| W-10 | 5 | 8.5 | 42.5 | |
| W-11 | 35 | 8.5 | 297.5 | |
| W-12 | 10 | 8.5 | 85 | |
| W-13 | 25 | 8.5 | 212.5 | |
| W-14 | 250 | 7 | 1750 | Kalwall |
| W-15 | 10 | 8.5 | 85 | |
| W-16 | 20 | 8.5 | 170 | |
| W-17 | 10 | 8.5 | 85 | |
| W-18 | 55 | 8.5 | 467.5 | |
| W-19 | 75 | 8.5 | 637.5 | |
| W-20 | 25 | 6 | 150 | |
| W-21 | 15 | 8.5 | 127.5 | |
| W-22 | 15 | 8.5 | 127.5 | |
| W-23 | 4 | 1.25 | 5 | |
| W-24 | 1.33 | 6.67 | 8.8711 | |
| W-25 | 250 | . 7 | 1750 | Kalwall |
| W-26 | 25 | 8.5 | 212.5 | |
| W-27 | 25 | 8.5 | 212.5 | |
| W-28 | 4 | 1.25 | 5 | |
| W-29 | 1.33 | 6.67 | 8.8711 | |
| W-30 | 10 | 8.5 | 85 | |
| W-31 | 20 | 8.5 | 170 | |
| TOTAL | 937 | 238 | 7068 | |

CSU IS Labs Building #60

Owner: Colorado Btata University Architect: Colorado Stata University

Hensel Phelps

CSU IS Labs Exterior Renovation Trend Log 1

Drawing Date: \$/28/2015 Revision No: 90

Lod: 15-A

Cate Pr

| | Log Ne,: 1 | | ROM × Re | ugh Order of | R = Reportant Negritudo | | | | | |
|----------|--|--------|----------|--------------|----------------------------|--------------------------------------|------------------------------|----------------------|-------------------|-----------|
| Pro | jast Sector: jast Sector Description: | | Actio | | Pending | Sector A Exterior Improvements | Site A Site A Description | Yotal | Rejected | Remarks |
| 814 | uss Fleor Area; condary Unit: | Status | By | Date | Cost Estimates | 25,000 65F | Carlos and | 29,998 GS# 0 EACH | Cost Estimates | No marino |
| TE # Des | | | | | | | | | | |
| Bud | | - | | - | | 1,996,665 | 0 | 1.506,856 | | |
| 1.01 | ces Landmark176 Operable ilo Hopes Landmark 175 Fixed Windows | | | - | 227,980 | | | 0 | | |
| 1.02 Hop | pes Landmark 175 Thermo Evolution Fixed to Hopes Landmark 175 Operable Windows | | | | (136.788) | | | 0 | | |
| 1.03 | bes Landmark175 Therme Evolution Operable to Hopes Landmark 175 Operable Windows | | | | 136,748 | | | 0 | | |
| 1.04 Was | usau True-Divided Light to Hopes Landmark 175 Operable Windows | | 1 | | 0 | | | Ø | | |
| 1.05 Wai | usau Simulated-Owded Lite To Hopes Landmark 175 Operable Windows | | | | (250.77B) | | | 0 | | |
| 1.06 Pan | nel Siding and paint ilo Green Insulated Metal Panels | | | | (17.993) | | | 0 | | |
| | erior Gypsum Assembly w/ Paint ilo Interior Metal Wall Panels | _ | | | (142.251) | | | 0 | | |
| 1.06 | | | | | | | | 0 | | |
| 1.09 | | | | | | | | 0 | | |
| 1.10 | | | | | | | | 0 | | |
| 1.12 | | | | | | | | 0 | | |
| 1.13 | | | | | | | | 0 | | |
| 1.14 | | | - | | | | | 0 | | |
| 1,15 | | | | | | | | 0 | | |
| 1.16 | | | | | | | | | | |
| 1.17 | | | | | | | | 0 | | |
| 1.18 | | | | | | | | 0 | | |
| 1.19 | | _ | | | | | | 0 | | |
| 1.20 | | | | | | | | 0 | | |
| 1.21 | | | | | | | | 0 | | |
| 1,22 | | | | | | | | 0 | | |
| 1.24 | | | | | | | | 0 | | |
| 1.25 | | | | | | | | 0 | | |
| 1.26 | | | | | | | | 0 | | |
| 1.27 | | | | | | | | 0 | | |
| 1.28 | | | | | | | | 0 | | |
| 1.29 | | | | | | 1 | | 0 | | |
| 1.30 | | | | | | | | | | |
| 1,31 | | | - | | | | | | | |
| 1.32 | | | | | | | | | | |
| 1.33 | | | | | | | | | | |
| 1.35 | | | | - | | | | | | |
| 1,35 | | | - | 1 | | | | | | |
| 1.30 | | | | | | | | (| | |
| 1.38 | | | | | | | | (| | |
| 1,39 | | | | | | | | | | |
| 1.40 | | | | | | | | 1,005,564 | 1 | |
| | TAL CONSTRUCTION COST | | | | (183,042 | 1,006,856 | | | | |
| Ict | DST PER SOFT | | | | | 99.84 | | 90.5 | Rejected Cost | |

Page 1 of 1

| | | | 1. 1. 1. 1. M. 1. | | L | | | |
|------------|--|----------------------|-------------------|-----------------------|-------------------------|--|--|--|
| | Fort Collins, CO | | | HPCC Trend Est # | 1.01 13-Feb-14 NA | | | |
| Sec No. | Description: | Qty | Unit | Unit Cost | TOTAL | | | |
| Original | waar poer | stry | | | | | | |
| Budget: | B202001 - Windows | | - | | | | | |
| ounger. | Reproduction Historic Steel Windows - Hopes Landmark175 Fixed | | | | | | | |
| | Windows | 3,568 | SQFT | 140.00 | 499,53 | | | |
| | | | | | | | | |
| | | | | | - | | | |
| | | | | | • | | | |
| | | | | | - | | | |
| [| | | | | | | | |
| | | | Subt | otal Original Budget: | 499,52 | | | |
| Revised | B202001 - Windows | | | | | | | |
| Budget: | Reproduction Historic Steel Windows - Hopes Landmark175 Operable | | | | | | | |
| | Windows | 3,568 | SQFT | 190.00 | 677,92 | | | |
| | | | | | - | | | |
| | | | | | - | | | |
| t | | | | | - | | | |
| t | | | | | - | | | |
| T | | | | | - | | | |
| T | Subtotal Revised Budget: | | | | | | | |
| | | | | Subtotal of Revision: | \$178,4 | | | |
| 1 | General Conditions | 5.00% | | | \$8,9 | | | |
| h | Indirects & Reserves | 5.29% | | | \$9,4 | | | |
| Ī | Bidding & Construction Reserves and Escalation | 12.50% | | | \$22,3 | | | |
| | Contractor's Fee | . 5.00% | | | \$8,93 | | | |
| F | | | | | | | | |
| F | | Subtotal Indirects 8 | Reserves | Contingency & Fee: | \$49,5 | | | |
| | | | | NET CHANGE: | \$227,91 | | | |
| end Esti | mate Report | | | Estimated by: | СІК | | | |
| | | | | Checked by: | | | | |
| | | | | Datar | 70 Apr. 16 | | | |

TREND ESTIMATE REPORT

Hensel Phelps Construction Co.

ked by: Date: 20-Apr-16 Time: 1:51:31 PM

| Sector: <u>A</u> | Fort Collins, CO <u>Exterior Improvements</u> g change in scope will result in budget revisions as noted: | | | HPCC Trend Est # Initiated: Approved Adj. No Approved: LEED Affect | 1.02 13-Feb-14 NA |
|------------------|---|------------------------------|-----------|--|-------------------------|
| | Hope's Landmark175 Thermal Evolution Technology Fixed windows ilo Hope's | Landmar175 Operable windows. | | Revised: | |
| Sec No. | Description: | Qty | Unit | Unit Cost | TOTAL |
| Driginal | | | | | |
| Budget: | B202001 - Windows | | a ser po- | Contraction of the | - |
| | Reproduction Historic Steel Windows - Hopes Landmark175 Operable Windows | 3,568 | SQFT | 190.00 | 677,92 |
| - | THINGONS | | | | |
| - | | | | | |
| | | | | | - |
| | | | | | - |
| | | | | | - |
| Revised | | | Sub | total Original Budget: | 677,93 |
| Budget: | B202001 - Windows | CONCERNMENT OF CONCERNMENT | | | |
| buuger. | Reproduction Historic Steel Windows - Hopes Landmark175 Thermal | | | | |
| | Evolution Technology Fixed Windows | 3,568 | SQFT | 160.00 | 570,8 |
| | | | | | |
| _ | | | | | |
| - | | | | | |
| - | | | | | |
| - | | | Sul | btotal Revised Budget: | 570,8 |
| | | | | Subtotal of Revision: | (\$107,0 |
| Ger | neral Conditions | 5.00% | | | (\$5,3 |
| | lirects & Reserves | 5.29% | | | (\$5,6 |
| | ding & Construction Reserves and Escalation | 12.50% | | | (\$13,3 |
| Cor | ntractor's Fee | 5.00% | | | (\$5,3 |
| | | | | es, Contingency & Fee: | (\$29,7 |
| | | | | | |

TREND ESTIMATE REPORT

Trend Estimate Report

1

Hensel Phelps Construction Co.

Estimated by: CJK Checked by: Date: 20-Apr-16 Time: 1:51:39 PM

| | | TREND ESTIMATE REPORT | |
|---------------------|--|---|--|
| Project: Sector: | CSU IS Labs Exterior Renovation Fort Collins, CO A Exterior Improvements | HPCC Trend Est # Initiated: Approved Adj. No. | 1.03 13-Feb-14 |
| The follo | wing change in scope will result in budget | Revised: | NA |
| Sec No. | Description: | olution Technology Operable windows ilo Hope's Landmar175 Operable windows. Qty Unit Unit Cost | TOTAL |
| Original | | | |
| Budget: | B202001 - Windows | | - |
| - | Reproduction Historic Steel Window | | 677.0 |
| | Windows | 3,568 SQFT 190.00 | 677,9 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | - |
| | | Subtotal Original Budget: | 677,92 |
| Revised Budget: | B202001 - Windows | | - |
| Budger: | Reproduction Historic Steel Window | ws - Hopes Landmark175 Thermal | |
| | Evolution Technology Operable Wir | ndows 3,568 SQFT 220.00 | 784,9 |
| | | | - |
| | | | - |
| | | | - |
| | | | - |
| | | | 1 |
| | | Subtotal Revised Budget: | 784,9 |
| | | Subtotal of Revision: | \$107,0 |
| | General Conditions | 5.00% | \$5,3 \$5,6 |
| | ndirects & Reserves | 5.29% 12.50% | \$5,6 |
| | Bidding & Construction Reserves and Escalatio | on 12.50% 5.00% | \$15,5 |
| | Contractor's Fee | 2,00% | 6,66 |
| | | Subtotal Indirects & Reserves, Contingency & Fee: | \$29,7 |
| | | NET CHANGE: | The second s |
| end Est | mate Report | Estimated by | |
| | | Checked by | |
| | 1 Australian Ca | Date | 20-Apr-1 |

Hensel Phelps Construction Co.

| TREND ESTIMATE RI | EPORT | 1 |
|-------------------|-------|---|
|-------------------|-------|---|

| Project: Sector: The follow | CSU IS Labs Exterior Renovation Fort Collins, CO A Exterior Improvements ving change in scope will result in budget revisions as noted: Wausau True-Divided Lite window system ilo Hope's Landmar175 Operable windows. | | | HPCC Trend Est # Initiated: Approved Adj. No Approved: LEED Affect Revised: | 1.04 13-Feb-14 NA |
|-----------------------------------|--|----------------------|---|--|--|
| Sec No. | Description: | Qty | Unit | Unit Cost | TOTAL |
| Original | Description; | | | | and a second |
| Budget: | B202001 - Windows | | a spin a star | | - |
| | Reproduction Historic Steel Windows - Hopes Landmark175 Operable Windows | 3,568 | SQFT | 190.00 | 677,920 |
| E | | | - Lon and - | | - |
| E | | | | | |
| L | | | | | - |
| H | | | | | - |
| H | | | | | • |
| F | | | Sub | total Original Budget: | 677,920 |
| Revised | | | | | and the second sec |
| Budget: | B202001 - Windows | | | | - |
| | Reproduction Historic Aluminum Windows - Wausau True-Divided Lite | 3,568 | SQFT | 190.00 | 677,920 |
| - | Fixed Windows | 3,300 | OQF1 | 100,00 | - |
| - | | | | | • |
| F | | | | | - |
| F | | | | | - |
| F | | | | | - |
| F | | | Sub | ototal Revised Budget: | 677,920 |
| | | | | Subtotal of Revision: | \$(\$(|
| 1 | General Conditions | 5.00% | | | \$0 |
| | Indirects & Reserves | 5.29% | | and a second | \$(|
| | Bidding & Construction Reserves and Escalation | 5.00% | and the second se | | \$1 |
| P | Contractor's Fee | 5.007 | | | |
| ŀ | | Subtotal Indirects 8 | Reserve | s, Contingency & Fee: | \$1 |
| Mar Carl | | | | NET CHANGE: | \$ |

Trend Estimate Report

I

1

Hensel Phelps Construction Co.

Estimated by: Checked by: Date: Time:

20-Apr-16 1:50:25 PM

CJK

| | <u>Fort Collins, CO</u> <u>A</u> <u>Exterior improvements</u> Ig change in scope will result in budget revisions as noted: | | | HPCC Trend Est # Initiated: Approved Adj. No Approved: LEED Affect Revised: | 1.05 13-Feb-14 NA |
|------------|--|----------------------|----------|---|-------------------------|
| | Wausau Simulated-Divided Lite window system ilo Hope's Landmar175 Operable windo | ws. | | | |
| Sec No. | Description: | Qty | Unit | Unit Cost | TOTAL |
| Original | | | | | |
| Budget: | B202001 - Windows | | | | - |
| | Reproduction Historic Steel Windows - Hopes Landmark175 Operable Windows | 3,568 | SQFT | 190.00 | 677,9 |
| | , moons | 0,000 | | | |
| | | | | | |
| | | | | | |
| | | | | | - |
| | | | | | |
| - | | | Subto | otal Original Budget: | 677,9 |
| Revised | | | | | |
| Budget: | B202001 - Windows | | | | |
| | Reproduction Historic Aluminum Windows - Wausau Simulated- Divided Lite Fixed Windows | 3,568 | SQFT | 135.00 | 481,6 |
| - | Divided Lite Fixed Windows | 3,000 | BUT | 155.00 | 401,0 |
| - | | | | | |
| - | | | | | |
| | | | | | |
| | | | | | |
| | | | | otal Revised Budget: | 481,6 |
| | | | 5 | Subtotal of Revision: | (\$196,2 |
| | eral Conditions | 5.00% | - | A CONTRACTOR OF | (\$9,8 |
| | rects & Reserves | 5.29% | | | (\$10,3 |
| | ling & Construction Reserves and Escalation | 12.50% | | | (\$24,5 (\$9,8 |
| Con | tractor's Fee | 5.00% | | | (\$9,8 |
| - | | Subtotal Indirects & | Reserves | Contingency & Fee | (\$54,5 |
| | | Subtotal man etts of | | contingency aree. | (+)+,- |

TREND ESTIMATE REPORT

Trend Estimate Report

Hensel Phelps Construction Co.

Estimated by: CJK Checked by: Date: 20-Apr-16 Time: 1:50:45 PM

| | A Exterior Improvements | | | HPCC Trend Est # Initiated: Approved Adj. No Approved: | 1.06 13-Feb-14 |
|------------------|---|-----------------------------|-------------|---|-------------------|
| The following | ng change in scope will result in budget revisions as noted: James Hardie Panel Siding ilo Painted Metal Wall Panels | | | LEED Affect Revised: | NA |
| Sec | Develotion | . Qty | Unit | Unit Cost | TOTAL |
| No. | Description: | - utry | Unit | Unit Cost | TOTAL |
| Driginal Budget: | Exterior Siding | | | | |
| buuger. | Green - Insulated Metal Wall Panels | 320 | SQFT | 50.00 | 16,00 |
| | | | | | |
| | | | 1.1.1.1.1.1 | | - |
| | | | | | |
| | | the statement of the second | | | - |
| | | | | | |
| - | | l | Sub | total Original Budget: | 16,00 |
| Revised | | | 1 | 1 | |
| Budget: | Exterior Siding | | | | |
| | Panel Siding at 2nd Floor | 320 | SQFT | 6.00 | 1,92 |
| | | | | | - |
| - | | | | | - |
| - | | | | | - |
| - | | | | | |
| - | | | Sut | total Revised Budget: | 1,9 |
| | | | 301 | Subtotal of Revision: | (\$14,08 |
| G | eneral Conditions | 5.009 | 6 | | (\$7) |
| | directs & Reserves | 5.299 | | | (\$74 |
| | dding & Construction Reserves and Escalation | 12.509 | | | (\$1,70 |
| | ontractor's Fee | 5.009 | | | (\$70 |
| | | | | | |
| | | Subtotal Indirects & | Reserve | s, Contingency & Fee: | (\$3,9: |

Trend Estimate Report

-

Hensel Phelps Construction Co.

Estimated by: CJK Checked by: Date: 20-Apr-16 Time: 1:51:04 PM

| | TREND ESTIMATE F | EPORT | | | |
|-------------|---|----------------------|--|-------------------------------------|------------------------------|
| Project: | CSU IS Labs Exterior Renovation Fort Collins, CO | | | HPCC Trend Est # | 1.07 |
| Sector: | <u>A</u> <u>Exterior Improvements</u> | | | Initiated: | 13-Feb-14 |
| The followi | ing change in scope will result in budget revisions as noted: | | | Approved: | NA |
| | Interior Gypsum Assembly with paint ilo Interior Metal Wall Panels. | | | _ | |
| Sec No. | Description: | Qty | Unit | Unit Cost | TOTAL |
| Original | Description | | | | |
| Budget: | B201001 - Exterior Closure Repair ALLOWANCE(S) | | V | | - |
| - | 1 sided Prefinished Interior Metal Wall Panel Assembly | 6,150 | SQFT | 27.85 | 171,27 |
| | | | | | - |
| | | | | | - |
| | | | | | - |
| | | | | | - |
| | | | | | • |
| + | | | Subt | otal Original Budget: | 171,27 |
| Revised | | | | | |
| Budget: | B201001 - Exterior Closure Repair ALLOWANCE(S) 1 sided Prefinished Interior Metal Wall Panel Assembly | 9 6,150 | SQFT | 0.00 | |
| - | 1 sided Prennisned Intenor Metal Wall Panel Assembly 1 sided Gypsum Wall Panel Assembly | 6,150 | SQFT | 9.00 | 55,35 |
| E | Paint Gypsum Assembly | 6,150 | SQFT | 0.75 | 4,61 |
| E | | | | | - |
| - | | | Subt | total Revised Budget: | 59,96 |
| | | | | Subtotal of Revision: | (\$111,31 |
| | eneral Conditions | 5.00% | | | (\$5,56 |
| | directs & Reserves | 5.29% | | | (\$5,89 |
| | dding & Construction Reserves and Escalation | 12.50% | | | (\$13,91 |
| | ontractor's Fee | 5.00% | 1. | | (\$5,56 |
| | | | | | |
| | | Subtotal Indirects & | Reserves | , Contingency & Fee: NET CHANGE: | (\$30,93 (\$142,2 |
| rend Estim | nate Report | | | Estimated by: | СЈК |
| | | | | Checked by: | 20-Apr-16 |

Date: 20-Apr-16 Time: 1:51:22 PM

Date:

Hensel Phelps Construction Co.

Facilities Audit Program Building Summary

| Building Name. | Industrial S | ci. Labs | | | Number | : 0060 | |
|-----------------------|--------------|----------------|----------|---------|------------|------------------|---|
| Construction D | ate: 1925 | Gross Squa | re Feet: | 20,246 | Net Squ | are Feet: 20,03 | 2 |
| Date of Audit: | 10/06/2008 | Cycle: 6 | Phase: | 3 No. 0 | f Stories: | 1 | |
| Classification: | M590 Vocat | ional, 2 Story | | SBP Cla | ss: 14 l | nstructional Sho | р |
| Replacement C | ast: \$2 19 | 5 073 34 | Cost | Per SF: | \$108 42 | | |

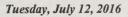
| Component | Total Rating | Multiplier Used | Component Deficiency | Renewal Cost |
|------------|-----------------|--------------------|-------------------------|-----------------|
| Foundation | 0.3000 | 0.03 | 0.0090 | \$19,755.66 |
| Ext Walls | 0.3000 | 0.09 | 0.0270 | \$59,266.99 |
| Floors | 0.1000 | 0.16 | 0.0160 | \$35,121.17 |
| Roof | 0.5500 | 0.03 | 0.0165 | \$36,218.71 |
| Ceiling | 0.3000 | 0.03 | 0.0090 | \$19,755.66 |
| Int Walls | 0.2000 | 0.08 | 0.0160 | \$35,121.17 |
| Windows | 0.3000 | 0.02 | 0.0060 | \$13,170.44 |
| Doors | 0.2500 | 0.02 | 0.0050 | \$10,975.37 |
| Cool Vent | 0.1500 | 0.07 | 0.0105 | \$23,048.27 |
| Heat | 0.5700 | 0.07 | 0.0399 | \$87,583.43 |
| Plumbing | 0.3600 | 0.04 | 0.0144 | \$31,609.05 |
| Electrical | 0.6300 | 0.08 | 0.0504 | \$110,631.69 |
| Safety | 0.2500 | 0.03 | 0.0075 | \$16,463.05 |
| AE/OP | 0.2272 | 0.19 | 0.0432 | \$94,756.93 |

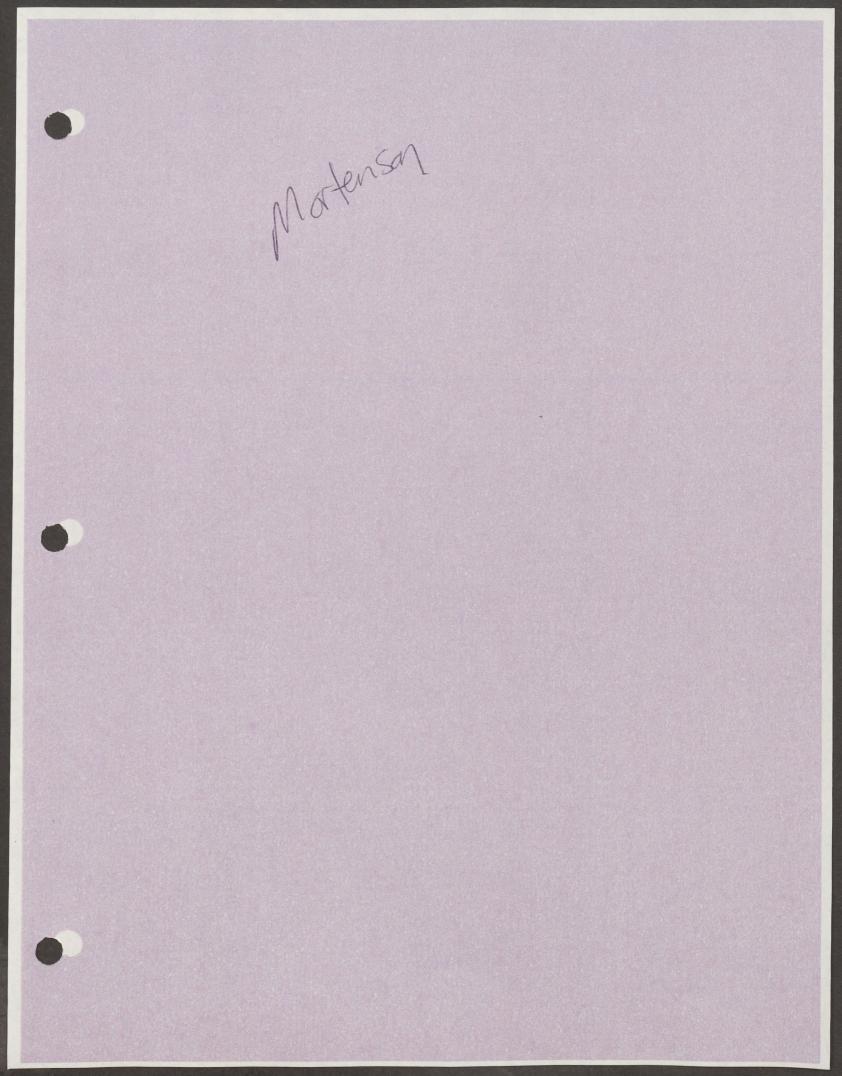
Component Deficiency Total: 0.2704

2704

Outstanding Maintenance:\$593,477.60Facilities Condition Index (FCI):72.96

FCI = (1-Component Deficiency Total) x 100 AE/OP: (Total Rating for AE/OP is the sum of the component deficiencies of all other components)







CSU IS Building Enclosure Renovation Fort Collins, Colorado Cost Opinion

| May 6, 2016 | | | | Total Projec | t Cost | |
|---|----------------|------------------|----|--------------------|---------------------------------|--|
| Scope of Work | | System Area | UM | Cost per System | Cost per GSF | Total Cost |
| Foundations Basement Construction Superstructure | | | | | | |
| Exterior Enclosure Roofing Interior Construction Stairs | | 14,980 21,160 | | \$69.39 \$31.81 | \$51.97 \$33.66 | \$1,039,465 \$673,185 \$19,186 |
| Interior Finishes Conveying Plumbing HVAC | | | | | | |
| Fire Protection Electrical Equipment Furnishings Special Construction | | 20,000 | sf | \$0.75 | \$0.75 | \$15,000 |
| Selective Building Demolition Site Preparation Site Improvements Site Mechanical Utilities | | | | | | |
| Site Electrical Utilities Contractor General Conditions Common Trade Support Costs | | | | | \$12.50 | \$250,000 |
| Escalation Construction Contingency Bidding Contingency | 3.00% | | | - Total I | Breakout Cost | \$1,996,836 \$119,810 \$99,842 \$59,905 |
| Design Contingency - By Owner Contractor P&P bonds, insurance, & fees | 0.00% 8.50% | | | | Subtotal | \$0 \$2,276,393 \$193,493 |
| | | | | | Breakout Price out Price/GSF | \$2,469,886 \$123 |

V:\Estimating Department\Estprojects\2016 ESTIMATE FILES\1606E011 CSU IS Building Enclosure CM\01.01 Summary 5/6/201610:24 AM Sheets-Coversheets\2016 05 06 CSU IS Building Enclosure Renovation CM Coversheet



| ay 06, 20 ⁻ | 16 Estima | te Report | | Project | Qty:0 GSF |
|------------------------|--|-----------|-----|------------|---------------|
| | DESCRIPTION | QUANTI | ГҮ | UNIT \$ | TOTAL \$'s |
| EXTERIC | DR ENCLOSURE | | | | |
| | - DEMOLITION | | | | |
| | DEMO EXTERIOR METAL WALL PANELS | 1,650.0 | SF | 2.83 | 4,672 |
| | DEMO EXTERIOR METAL WALL SOFFITS | 1,160.0 | SF | 2.83 | 3,285 |
| | DEMO EXTERIOR GLASS | 6,917.0 | SF | 5.67 | 39,243 |
| | DEMO EXTERIOR GARAGE DOORS | 4.0 | EA | 136.10 | 544 |
| | DEMO EXTERIOR DOORS - SINGLE | 5.0 | EA | 68.05 | 340 |
| | DEMO EXTERIOR DOORS - DOUBLE | 4.0 | EA | 68.05 | 272 |
| | HAUL OFF | 25.0 | LD | 330.40 | 8,260 |
| | SMALL TOOLS & CONSUMABLES | 1,421.0 | HR | 1.54 | 2,193 |
| | TOTAL 02 41 00 - DEMOLITION | | | | 58,810 |
| | - MASONRY | | | | |
| | POWER WASH EXISTING BRICK VENEER | 5,901.0 | SF | 0.50 | 2,951 |
| 4400.102 | RE-POINT MORTAR JOINTS / REPAIR EXISTING EXTERIOR BRICK - ALLOWANCE | 5,901.0 | SF | 10.00 | 59,010 |
| 4400.104 | MISCELLANEOUS MASONRY REPAIRS AT NEW OPENINGS - GARAGE DOORS | 4.0 | EA | 2,500.00 | 10,000 |
| 4400.106 | MISCELLANEOUS MASONRY REPAIRS AT NEW OPENINGS - MAN DOORS | 9.0 | EA | 1,500.00 | 13,500 |
| | TOTAL 04 00 00 - MASONRY | | | | 85,460 |
| 05 40 00 | - COLD-FORMED METAL FRAMING | | | | |
| 5400.090 | EXTERIOR WALL FRAMING - METAL PANEL SOFFITS | 1,160.0 | SF | 20.00 | 23,200 |
| | TOTAL 054000 - COLD-FORMED METAL FRAMIN | IG | | | 23,200 |
| | - METAL FABRICATIONS | | | | |
| | MISC METALS FOR ENCLOSURE | 14,980.0 | SF | 0.25 | 3,745 |
| 5530.100 | TUBE STEEL AT (E) OPENINGS FOR REPLACEMENT GARAGE DOORS | 4.0 | EA | 1,200.00 | 4,800 |
| | TOTAL 05 50 00 - METAL FABRICATIONS | | | | 8,545 |
| | - ROUGH CARPENTRY | | | | |
| 7620.207 | MISC BLOCKING FOR ENCLOSURE | 14,980.0 | SF | 0.75 | 11,235 |
| | TOTAL 06 10 00 - ROUGH CARPENTRY | | | | 11,235 |
| | - THERMAL INSULATION | | | | |
| 7210.100 | EXTERIOR INSULATION BEHIND METAL WALL | | N/A | | |
| 7210.100 | PANELS INSULATION BEHIND EXISTING MASONRY | 5,901.0 | SF | 3.25 | 19,178 |
| | TOTAL 07 21 00 - THERMAL INSULATION | | | | 19,178 |
| 07 27 00 | - AIR BARRIERS | | | | |
| 7270,500 | AIR BARRIER AT ROOF LEVEL PERIMETER | 1,220.0 | LF | 5.00 | 6,100 |
| | AIR BARRIER AT EXTERIOR BRICK | 5,901.0 | SF | 5.00 | 29,505 |
| 210.001 | AIR BARRIER AT METAL WALL PANELS | 1,310.0 | SF | 5.00 | 6,550 |
| | AIR DARRIER AT METAL WALLET AIR LE | | | | |

07 42 00 - WALL PANELS



| May 06, 2016 | ⁶ Estima | te Report | | Project Qt | y:0 GSF |
|--------------|--|------------|-----|------------|---------------|
| | DESCRIPTION | QUANTIT | Y | UNIT \$ | TOTAL \$'s |
| EXTERIO | RENCLOSURE | | | | |
| 7400.300 | NEW INSULATED METAL WALL PANELS - DARK | 150.0 | SF | 40.00 | 6,000 |
| 7400.302 | GREEN NEW INSULATED METAL SOFFIT PANELS - DARK GREEN | 1,160.0 | SF | 45.00 | 52,200 |
| | TOTAL 07 42 00 - WALL PANELS | | | | 58,200 |
| 07 90 00 | - JOINT PROTECTION | | | | |
| 7900.100 | JOINT SEALANTS - ENCLOSURE | 14,980.0 | SF | 0.60 | 8,988 |
| | TOTAL 07 90 00 - JOINT PROTECTION | | | | 8,988 |
| 08 11 00 | - METAL DOORS & FRAMES | | | | |
| 8900.200 | REPLACEMENT EXTERIOR HM OPENING - | 5.0 | EA | 1,500.00 | 7,500 |
| 8900.202 | SINGLE REPLACEMENT EXTERIOR HM OPENING - DOUBLE | 4.0 | EA | 1,750.00 | 7,000 |
| | TOTAL 08 11 00 - METAL DOORS & FRAMES | | | | 14,500 |
| 08 36 00 | - PANEL DOORS | | | | |
| 8330.100 | INSULATED METAL GARAGE DOORS - MANUALLY OPERATED (12x12) | 576.0 | SF | 45.00 | 25,920 |
| | TOTAL 08 36 00 - PANEL DOORS | | | | 25,920 |
| 08 45 00 | - TRANSLUCENT WALL & ROOF ASSEMBLIES | | | | |
| 8445.102 | NEW TRANSLUCENT WINDOW SYSTEM CLERESTORY | 3,710.0 | SF | 45.00 | 166,950 |
| | TOTAL 08 45 00 - TRANSLUCENT WALL & ROOF | ASSEMBLIES | ; | | 166,950 |
| 08 50 00 | - WINDOWS | | | | |
| 8400.100 | NEW EXTERIOR WINDOWS - HISTORIC LOOK / NON-OPERABLE | 3,132.0 | SF | 140.00 | 438,480 |
| 8400.104 | NEW ARCHED EXTERIOR WINDOW OVER ENTRY DOORS - HISTORIC LOOK / NON-OPERABLE | 75.0 | SF | 200.00 | 15,000 |
| 8600 312 | REPLACE MAIN ENTRY DOORS | 2.0 | EA | 2,750.00 | 5,500 |
| | ADA DOOR OPERATORS | 2.0 | EA | 3,500.00 | 7,000 |
| | TOTAL 08 50 00 - WINDOWS | | | | 465,980 |
| 08 91 00 | - LOUVERS | | | | |
| 8900.100 | REPLACE MISCELLANEOUS EXTERIOR WALL LOUVERS / VENTS | 250.0 | SF | 85.00 | 21,250 |
| | TOTAL 08 91 00 - LOUVERS | | | | 21,250 |
| 09 91 00 | - PAINTING | | | | |
| | PAINT MISCELLANEOUS ENCLOSURE ITEMS | 14,980.0 | SF | 0.35 | 5,243 |
| 9900.550 | PAINT FOR HM DOORS / FRAMES - SINGLE | 5.0 | EA | 150.00 | 750 |
| 9900.552 | PAINT FOR HM DOORS / FRAMES - DOUBLE | 4.0 | EA | 175.00 | 700 |
| 9900.554 | PAINT NEW GARAGE DOORS | 480.0 | SF | 2.50 | 1,200 |
| | PREP AND PAINT EXISTING ROOF ACCESS | 2.0 | EA | 850.00 | 1,700 |
| 9900.560 | LADDER / ENCLOSURE STAIN OR SEALERS ON EXISTING BRICK VENEER | | N/A | | |
| | VENEER | | | | |

1606E011 CSU IS Building Enclosure CM 05 06 16.est

Page 2



| ay 06, 201 | 6 Estir | nate Report | | Project | Qty:0 GSF |
|------------|---|-------------|----------------|-----------------|---------------|
| | DESCRIPTION | QUANTI | ГҮ | UNIT \$ | TOTAL \$'s |
| EXTERIO | RENCLOSURE | | | | |
| | TOTAL 099100 - PAINTING | | | | 9,593 |
| 10 14 00 | - SIGNAGE | | | | |
| 7500.906 | REMOVE & RE-INSTALL BUILDING SIGNAGE | 1.0 | LS | 5,000.00 | 5,000 |
| | TOTAL 10 14 00 - SIGNAGE | | Section States | ALCONTRACTOR ST | 5,000 |
| ī | TOTAL EXTERIOR ENCLOSURE | | | | 1,027,465 |
| | | | | | |
| ROOFING | 3 | | | | |
| 02 41 00 | - DEMOLITION | | | | |
| | DEMO EXISTING ROOFING | 21,160.0 | SF | 2.18 | 46,118 |
| | SMALL TOOLS | 1,058.0 | HR | 2.88 | 3,050 |
| | EQUIPMENT | 1.0 | LS | 3,920.00 | 3,920 |
| | HAUL OFF | 20.0 | LD | 330.40 | 6,608 |
| | TOTAL 02 41 00 - DEMOLITION | | | | 59,696 |
| 06 10 00 | - ROUGH CARPENTRY | | | | 00,000 |
| 7620.207 | BLOCKING AT ROOF COPING | 1,160.0 | LF | 5.44 | 6,316 |
| | NEW UNDERLAYMENT ON ROOF | 21,160.0 | SF | 8.07 | 170,844 |
| | TOTAL 06 10 00 - ROUGH CARPENTRY | | | | 177,159 |
| 07 50 00 | - MEMBRANE ROOFING | | | | 111,100 |
| | NEW MEMBRANE ROOF SYSTEM | 21,160.0 | SF | 18.00 | 380,880 |
| | REPLACE ROOF EXPANSION JOINTS | 21,100.0 | N/A | 10.00 | 000,000 |
| | RE-ROUTE EXISTING MECHANICAL ITEMS ON | 1.0 | ALLW | 10,000.00 | 10,000 |
| | ROOF - ALLOWANCE | | | , | 10,000 |
| | RE-ROUTE EXISTING ELECTRICAL ITEMS ON | 1.0 | ALLW | 2,500.00 | 2,500 |
| | | | | | |
| 07 00 00 | TOTAL 07 50 00 - MEMBRANE ROOFING | | | | 393,380 |
| | - SHEET METAL FLASHING & TRIM | 04 400 0 | 05 | 4.05 | 00.450 |
| | SHEET METAL FLASHING | 21,160.0 | SF | 1.25 | 26,450 |
| | GUTTERS / DOWNSPOUTS | 1,000.0 | LF | 15.00 | 15,000 |
| 620.202 | DOWNSPOUTS - 10 EA | 150.0 | LF | 10.00 | 1,500 |
| | TOTAL 07 62 00 - SHEET METAL FLASHING & T | RIM | | | 42,950 |
| | ROOF SPECIALTIES | | | | |
| | ROOF HATCH | | N/A | | |
| | ROOF TOP ENCLOSURES FOR MECHANICAL EQUIPMENT | | N/A | | |
| | TOTAL 07 71 00 - ROOF SPECIAL TIES | | | | |
| T | OTAL ROOFING | | | | 673,185 |
| 1 | | | | | 073,105 |
| | CONCEPTION | | | | |
| | CONSTRUCTION | | | | |
| | DEMOLITION | | | | |
| 060,600 | DEMO GYP WALLS ALONG EXTERIOR WALL - ASSUME 50% GROUND LEVEL ENCLOSURE | 4,950.0 | SF | 3.39 | 16,770 |



| Estimat | e Report | | Project | Qty:0 GSF |
|---|--|---------------------------|------------|------------------|
| DESCRIPTION | QUANTIT | ſY | UNIT \$ | TOTAL \$'s |
| NTERIOR CONSTRUCTION | | | | |
| 2060.626 HAUL OFF | 5.0 | LD | 330.40 | 1,652 |
| 2060.700 SMALL TOOLS & CONSUMABLES | 495.0 | HR | 1.54 | 764 |
| TOTAL 024100 - DEMOLITION | | | | 19,186 |
| TOTAL INTERIOR CONSTRUCTION | | | | 19,186 |
| PLUMBING | | | | |
| 22 00 00 - PLUMBING | | | | |
| 5459.902 MODIFY EXISTING PLUMBING SYSTEM | | N/A | | |
| TOTAL 22 00 00 - PLUMBING | | | | |
| TOTAL PLUMBING | | | | |
| | | | | |
| HVAC | | | | |
| 23 00 00 - HEATING, VENTILATING & AIR-CONDITIONING (HVA | C) | | | |
| 5799.902 MODIFY EXISTING HVAC SYSTEMS | 495.0 HR EM N/A IDITIONING (HVAC) N/A TILATING & AIR-CONDITIONING (HVAC) N/A DN SYSTEM N/A STEMS N/A STEMS N/A HITING ON 1.0 | N/A | | |
| | | G (HVAC) | | |
| TOTAL 23 00 00 - HEATING, VENTILATING & AIR-C | ONDITIONIN | | | |
| TOTAL 230000 - HEATING, VENTILATING & AIR-C | ONDITIONIN | | | |
| | | | | a series and |
| TOTAL HVAC | | | | |
| TOTAL HVAC | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 55300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 15300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL | | | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL 60000.100 MODIFY EXISTING ELECTRICAL SYSTEMS | | N/A N/A | | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL 10000.100 MODIFY EXISTING ELECTRICAL SYSTEMS 160000.100 MODIFY EXISTING ELECTRICAL SYSTEMS 160000.102 REMOVE / REPLACE EXTERIOR LIGHTING ON | | N/A | 15,000.00 | 15,000 |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL MODIFY EXISTING ELECTRICAL SYSTEMS 16000.100 MODIFY EXISTING ELECTRICAL SYSTEMS 16000.102 REMOVE / REPLACE EXTERIOR LIGHTING ON BUILDING - ALLOWANCE | | N/A N/A ALLW | 15,000.00 | 15,000 |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL MODIFY EXISTING ELECTRICAL SYSTEMS 16000.100 MODIFY EXISTING ELECTRICAL SYSTEMS 16000.102 REMOVE / REPLACE EXTERIOR LIGHTING ON BUILDING - ALLOWANCE 16000.104 MODIFY EXISTING LIGHTENING PROTECTION | | N/A N/A ALLW | 15,000.00 | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL MODIFY EXISTING ELECTRICAL SYSTEMS 16000.100 MODIFY EXISTING ELECTRICAL SYSTEMS 16000.102 REMOVE / REPLACE EXTERIOR LIGHTING ON BUILDING - ALLOWANCE 16000.104 MODIFY EXISTING LIGHTENING PROTECTION SYSTEM | | N/A N/A ALLW | 15,000.00 | 15,000 |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 21 00 00 - FIRE SUPPRESSION TOTAL 71 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION SUPPRESSION TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION SUPPRESSION TOTAL FIRE PROTECTION SUPPRESSION SUPPRESSION TOTAL 21 00 00 - FIRE SUPPRESSION SUPPRESS | | N/A N/A ALLW | 15,000.00 | 15,000 |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION SUPPRESSION TOTAL 26 00 00 - ELECTRICAL TOTAL 26 00 00 - ELECTRICAL TOTAL 26 00 00 - ELECTRICAL | | N/A N/A ALLW | 15,000.00 | |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL 6000.100 MODIFY EXISTING ELECTRICAL SYSTEMS 6000.102 REMOVE / REPLACE EXTERIOR LIGHTING ON BUILDING - ALLOWANCE 6000.104 MODIFY EXISTING LIGHTENING PROTECTION SYSTEM TOTAL 26 00 00 - ELECTRICAL GENERAL | | N/A N/A ALLW | 15,000.00 | 15,000 |
| TOTAL HVAC FIRE PROTECTION 21 00 00 - FIRE SUPPRESSION 5300.100 MODIFY EXISTING FIRE PROTECTION SYSTEM TOTAL 21 00 00 - FIRE SUPPRESSION TOTAL FIRE PROTECTION ELECTRICAL 26 00 00 - ELECTRICAL 16000.100 MODIFY EXISTING ELECTRICAL SYSTEMS 16000.102 REMOVE / REPLACE EXTERIOR LIGHTING ON BUILDING - ALLOWANCE 16000.104 MODIFY EXISTING LIGHTENING PROTECTION SYSTEM TOTAL 26 00 00 - ELECTRICAL GENERAL 01 10 00 - PAY ITEMS | 1.0 | N/A N/A ALLW N/A | | 15,000 15,000 |
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1606E011 CSU IS Building Enclosure CM 05 06 16.est



| May 06, 2016 Estim | nate Report | Project Qty:0 GSF | |
|---------------------------------------|-------------|-------------------|---------------|
| DESCRIPTION | QUANTITY | UNIT \$ | TOTAL \$'s |
| TOTAL GENERAL | | | 12,000 |
| GENERAL REQUIREMENTS | | | |
| 01 00 00 - GENERAL REQUIREMENTS | | | |
| 1000.100 GENERAL REQUIREMENTS | 1.0 LS | 250,000 | 250,000 |
| TOTAL 01 00 00 - GENERAL REQUIREMENTS | | | 250,000 |
| TOTAL GENERAL REQUIREMENTS | | | 250,000 |
| ESTIMATE TOTALS | | | 1,996,836 |

ESTIMATE TOTALS



SCOPE NARRATIVE

General:

The following estimate narrative is intended to provide a more descriptive characterization of our interpretations and assumptions made in preparing this estimate.

Some of the general parameters upon which this estimate is based are listed below. These issues do not fall into the "systems" categories, but rather are global in nature, and affect multiple systems with regard to pricing and scope.

Owner furnished equipment and furnishings are excluded.

Site acquisition, development costs and hazardous material abatement have not been included in the estimate.

The construction schedule anticipates starting construction Q2 2017. It is assumed this work will occur in one continuous phase during the summer months.

It is assumed this project will not be required to meet City of Fort Collins energy code.

Miscellaneous:

Based upon information presently available and furnished to M. A. Mortenson Company by the Owner, architect, and/or others, this construction cost estimate has been prepared and furnished for the sole purpose of providing a Cost Opinion Budget Estimate.



A1 FOUNDATIONS

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

1. It is assumed the existing foundation can withstand the loads imposed by replacing the exterior enclosure and roofing systems.

A2 BASEMENT CONSTRUCTION

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

2. Not included

B1 SUPERSTRUCTURE

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

3. It is assumed the existing structure can withstand the loads imposed by replacing the exterior enclosure and roofing systems.

B2 ENCLOSURE

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

- 4. Includes removal and haul off of existing enclosure elements including metal wall panels, glazing, man-doors, and garage doors.
- 5. Power wash and miscellaneous repair of existing brick façade.
- 6. New construction consists of the following:
 - 6.1. Insulated metal panels dark green to match existing.
 - 6.2. Thermal insulation at existing masonry.
 - 6.3. Air barrier at brick and metal panels.
 - 6.4. New man-doors and manually operated garage doors.
 - 6.5. Exterior windows (non-operable) by Hope' Windows or similar to match existing historic look.
 - 6.6. Clerestory is assumed to be a translucent (Kalwall) exterior wall system.
 - 6.7. Allowance for miscellaneous exterior wall louvers.
 - 6.8. Painting of enclosure items as needed.
 - 6.8.1. Excludes stain, sealers, or special coatings on existing masonry.
 - 6.9. Allowance for removal and reinstallation of existing signage on exterior of building.



B3 ROOFING

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

- 7. Includes removal and haul off of existing roof elements.
- 8. New construction consists of:
 - 8.1. New membrane roofing system and associated flashings.
 - 8.2. New plywood underlayment.
 - 8.3. New gutters and downspouts.
 - 8.4. Allowance of \$10,000 to re-route existing mechanical systems on the roof.
 - 8.5. Allowance of \$2,500 to re-route existing electrical systems on the roof.
- 9. Does not include any roof hatches or enclosures for mechanical equipment.

C1 INTERIOR CONSTRUCTION

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

- 10. We have not included any new interior construction or patch / repair of existing construction.
- 11. It is assumed the finished wall system on the inside face of existing brick will be part of a separate interiors construction project scope.
- 12. We have included partial demolition of existing interior gypsum walls to facilitate replacement of exterior enclosure elements. It is assumed 50% of the ground level enclosure has gypsum walls to be removed.

C2 STAIRS

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

13. Not Included.

C3 INTERIOR FINISHES

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

14. Not included.





Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

15. Not included.

D2 PLUMBING

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

16. Not included.

D3 HVAC

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

17. Not included.

D4 FIRE PROTECTION

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

18. Not included.

D5 ELECTRICAL

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

19. An allowance of \$15,000 has been included to replace lighting fixtures on the building exterior.

E1 EQUIPMENT

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

20. Not included.

E2 FURNISHINGS

CSU IS Building Enclosure Renovation Cost Opinion May 6, 2016 Page 5



Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

21. Not included.

F1 SPECIAL CONSTRUCTION

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

22. Not included.

F2 SELECTIVE BUILDING DEMOLITION

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

23. Removal of existing roof, exterior glazing, etc. is included as described above.

G1 SITE PREPARATION

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

24. Not included.

G2 SITE IMPROVEMENT

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

25. Not included

G3 SITE MECHANICAL UTILITIES

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

26. Not included.

G4 SITE ELECTRICAL UTILITIES

CSU IS Building Enclosure Renovation Cost Opinion May 6, 2016 Page 6



Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

27. Not included.

G9 OTHER SITE CONSTRUCTION

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

28. Not included.



Z1 GENERAL REQUIREMENTS

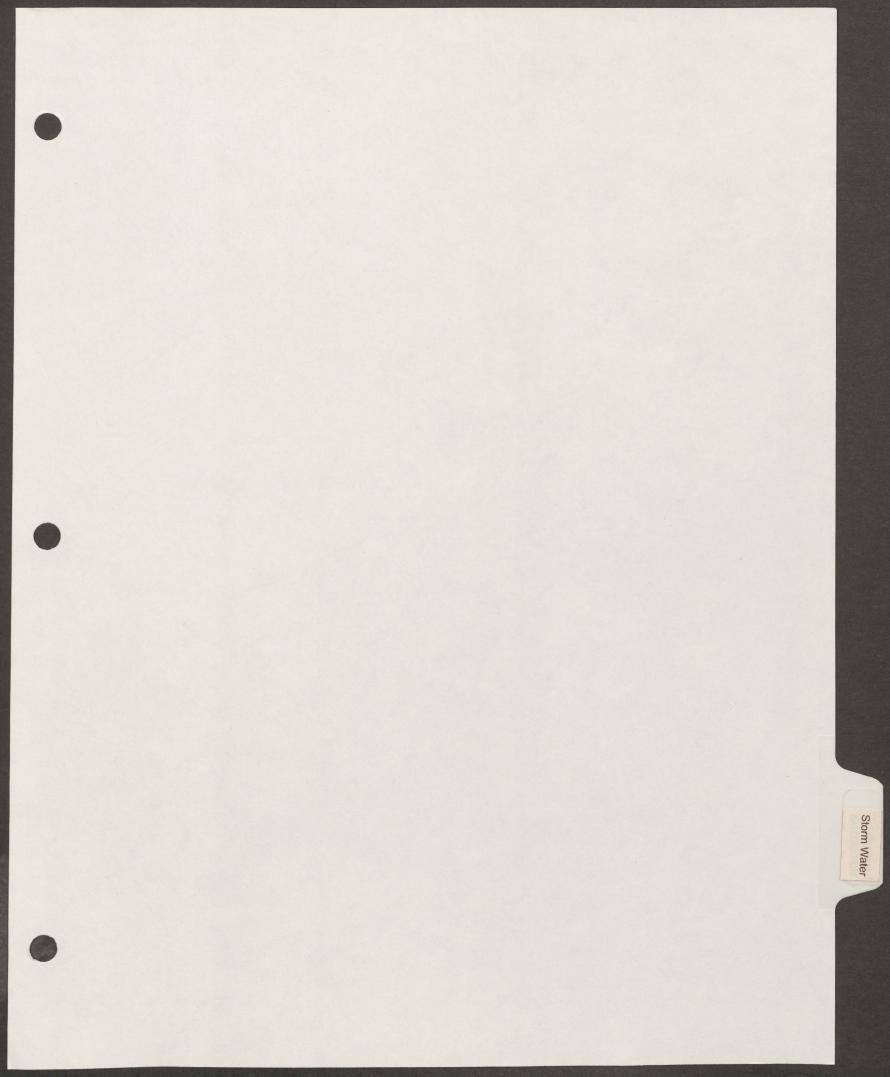
Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

- 29. General Conditions costs included in this estimate are for services required by the project and typically provided by the general contractor, Mortenson. These would include the following services, personnel, and temporary on-site facilities for the completion of the project:
 - 29.1. We have included an allowance of \$250,000 for general requirements.
 - 29.2. We have also included \$12,000 for enclosure consulting engineering.
- 30. This estimate excludes the following General Requirements:
 - 30.1. Sewer Access Charges or development fees
 - 30.2. Water Access Charges or development fees
 - 30.3. Testing Laboratory Services
 - 30.4. Owner Computer Equipment and Software
 - 30.5. Inspection Services
 - 30.6. Permanent Electrical Service to Building and Transformer
 - 30.7. Plan Review Fee
 - 30.8. Natural Gas Line Tap and Meter
 - 30.9. Independent quality control inspection

Z2 CONTINGENCIES

Scope of work per plans and specifications with the following exceptions, clarifications and assumptions:

31. Included on cover sheet.



| STATE OF COLORADO |
|---|
| OFFICE OF THE STATE ARCHITECT |
| CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 |
| STATE BUILDINGS PROGRAM |

Page 1 of 4

| | Confuelled M | laintananac | Canital P | anowal Ruilding | /Infrastructure Request |
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| | Controlled M Request | laintenance | | | Renewal Request (Y/N |
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| | cutive | | | 1. 1. 1. 1. 1. T. | |
| Dire | ector nature | | | Date | |
| 3) Age | ency ID No. | NR ANN ST | | Proje | ect M # |
| I) Age | ency Priority # | 1 | | | |
| 5) Pro | ject Title Re | eplace deteriora | ated storm water line | es Main Campus | |
| FAC | | | | | |
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STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 STATE BUILDINGS PROGRAM

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

Project No.

Project Title

Completion date or status

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Replace approximately 1,250 linear feet of storm line starting at west side of the Oval and running to the east edge of Main Campus. New pipe will be 48" concrete and 7 manholdes will also be replaced. These lines date from the early 1950's, when the original combined storm and sanitary utilities were separated. This line has significant root intrusion issues, and the manholes are brick and losing structural strength. It is only capable of handling a 2-year storm event, but storm sewers should be capable of handling a 10-20 year storm event.

2) Total Project Cost Estimate (From Cost Breakdown) \$ 1,093,574

3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The storm sewer line that this project addresses does not have sufficient capacity. In the event of a 10-20 year storm we will experience backup of the storm sewer into Engineering, Morgan Library and the Student Center, resulting in loss of use of those facilities.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

These new lines will be 48" concrete which will alleviate the root infiltration problems and insufficient capacity problems in the current system.

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 STATE BUILDINGS PROGRAM

D. <u>DETAILED COST ESTIMATE</u> (detail by phase, one page per phase, include all phases)

| 1) Approved By | Mike Rush | 2) Phase? 1 of 1 |
|--------------------|-------------|---|
| 3) Method and Date | of Estimate | Remodel and Construction Services escalated to 2017 |

4) Professional Services

| +) FIDIESSIDITAL DELVICES | |
|--|-----------|
| Site Surveys, Investigations, and Reports: | |
| Arch/Eng/Basic Services: | 96,841 |
| Code Review/Inspection: | 2,912 |
| Other (Explain): PM fee | 21,630 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$121,382 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM | UNIT | UNIT COST | EXTENDED COST |
|---|--|------------------------------|---------------|
| (Labor/Material/Equipment) | sf, cf, lf, etc. | | |
| Infrastructure | | | |
| a) Utility Services: | 1,250 lf | 253.38 | 316,725 |
| b) Site Improvements: | 1,250 lf | 70.30 | 87,872 |
| Structure/Systems/Components | | | |
| Manhole replacement | 7 ea | 13,774 | 96,419 |
| Railroad track pipe jack | 1 ea | 165,292 | 165,292 |
| Other(explain): | | A CONTRACTOR | |
| Allowance to repair/relocate adjacent utilities | 1 ea | 68,872 | 68,872 |
| Contractor's General Conditions: | | | 64,751 |
| Contractor's Overhead & Profit: | | | 72,845 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | The second s | States and the second second | \$872,776 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | 1,250 lf |
|---|---|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | 698.22/lf |
| 3D) Overall cost per square loop linear loot of construction in pro- | CONTRACTOR CONTRACTOR DE LA CONTRACTÓR DE L |

6) Miscellaneous (explain)

| | and the second second | |
|-------------------------------|-----------------------|----|
| Total of Miscellaneous Costs: | | \$ |

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 99,416 |
|--|--------|
| improvements, and miscellaneous costs.) | |

| 1 8) Total Cost of the Project (single phase) of rotal of this specifie r have of an preference | \$1,093,574 |
|---|-------------------|
| services (4), construction improvements(5), miscellaneous costs(6), and project | CAL STREET STREET |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 STATE BUILDINGS PROGRAM

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|-------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed |
|---|--------------|---------------|--------------------------------|
| the test in the second s | FY 2017/2018 | 1 of 1 | Budget) 1,093,574 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | | |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | ¢ |

(Subtotal)

TOTAL PROJECT DOLLAR AMOUNT

\$1,093,574

(All Prior, Future Phases subtotals and Current Dollar amount)

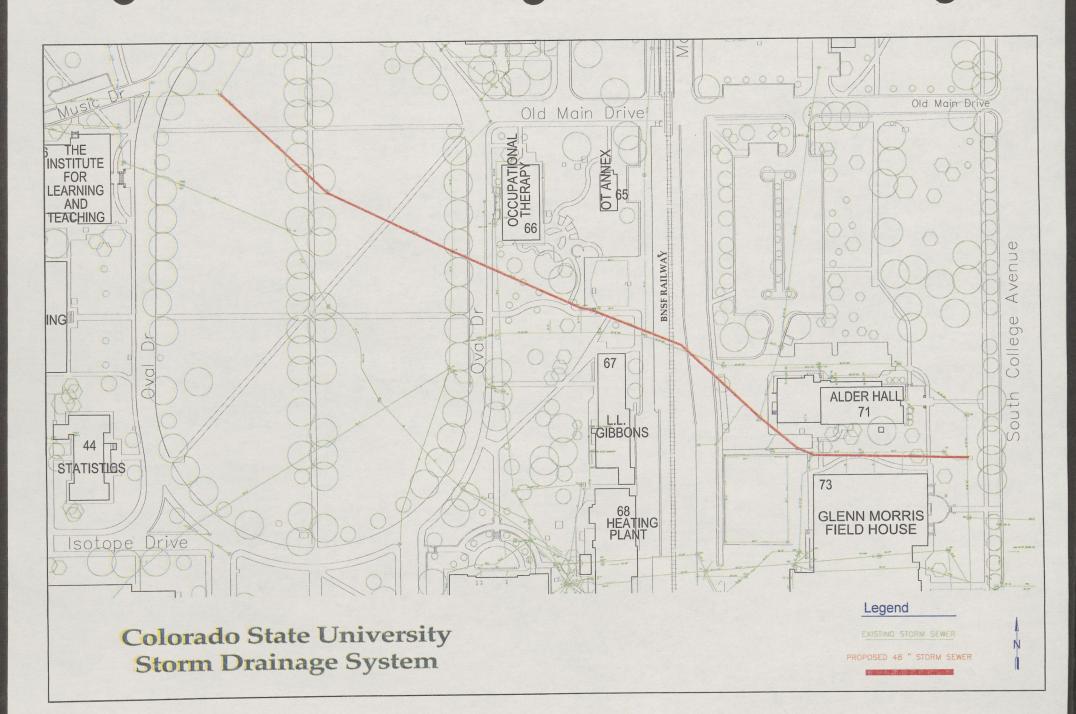
¹ List <u>all</u> previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.

² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | ТО |
|---------------------------------------|-----------|------------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | April 2018 |
| 3. Construction (Insert Dates) | May 2018 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |

\$





Gene Ellis **Facilities Services** 491-0047

Remodel Services

Facilities Service Center North

To:

Budget Opinion

This is only for Budgetary consideration only. Price may change atter design is completed

07/22/13 Date: CMFY15005 Project #: Customer ID# 6030 Expiration Date: 10/20/2013

\$ 130,860.75

CMFY 150011 Storm Utility Replacement Keven Carroll 491-6234

A set and a set of the Constant and the Review scope and cost for budgetary concerns. Replace 1250 linear feet of storm drains starting a Manhole numer 118 running to the East side of College Avenue. Includes 7 manholes, running trap replacement and railroad crossing.

| 1.00 | Contractor | Install 1250 linear ft of 48" concrete drain pipe to | 276,562.50 | 276,562.50 |
|------|------------|--|------------|------------|
| | | replace existing smaller storm drain. Includes | | • |
| | | removing existing as required and abandoning in place | | |
| | | if needed based on limitations. | | |
| 1.00 | Contractor | 7 Manhole replacements - remove existing, install new | 105,000.00 | 105,000.00 |
| 1.00 | Contractor | Railroad track pipe jack to install 48" storm drain under | 180,000.00 | 180,000.00 |
| 1.00 | Contractor | Hardscape and softscape repair/replacment/ traffic control | 95,000.00 | 95,000.00 |
| 1.00 | Contractor | Utility repairs/rerouting | 75,000.00 | 75,000.00 |
| | | | | |

| Construction Subtotal | | 731,562.50 |
|--|-------------|------------|
| Contingency | | 73,156.25 |
| Design fees | \$ | 87,787.50 |
| Third Party Code review | | 2,105.75 |
| Code Inspections | \$ | 525.00 |
| PM Fees . | \$ | 81,935.00 |
| This magnitude of cost is based on information which is now known and reasonably apparent from our investigation. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. This is a preliminary cost opinion; do not send an WOA for Tota construction based upon this amount. | a \$ | 977,072.00 |

This is a cost opinion on the Project named, subject to the conditions noted below:

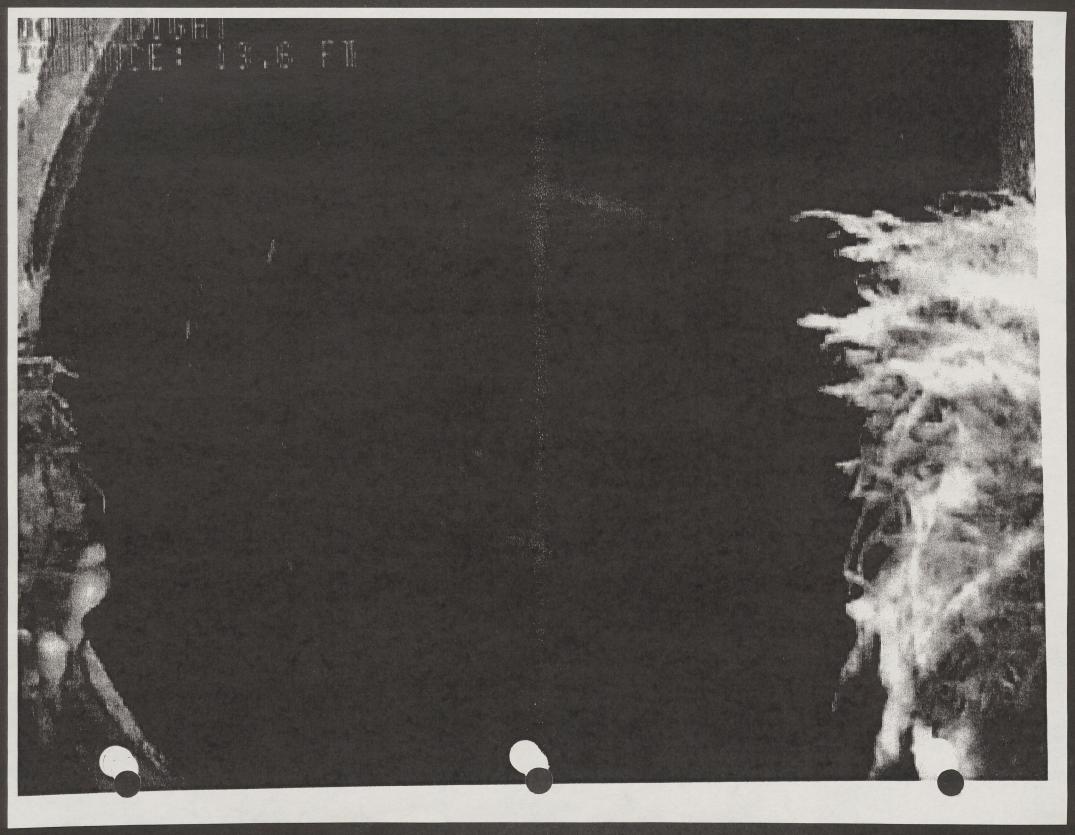
1. Packing of book shelves or files priory to moving is not included.
2. Asbestos or Lead hazard assessment or abatement is not covered unless stated
3. This quote does not cover the acctivation of phone and Data lines the customer will need to contact Telecom to activate lines

If you wish to proceed submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee needs to be sent to Facilities -6030 to the attention of Sherry McElwain.

State Purchasing Regulations require all single Purchase orders over \$50,000

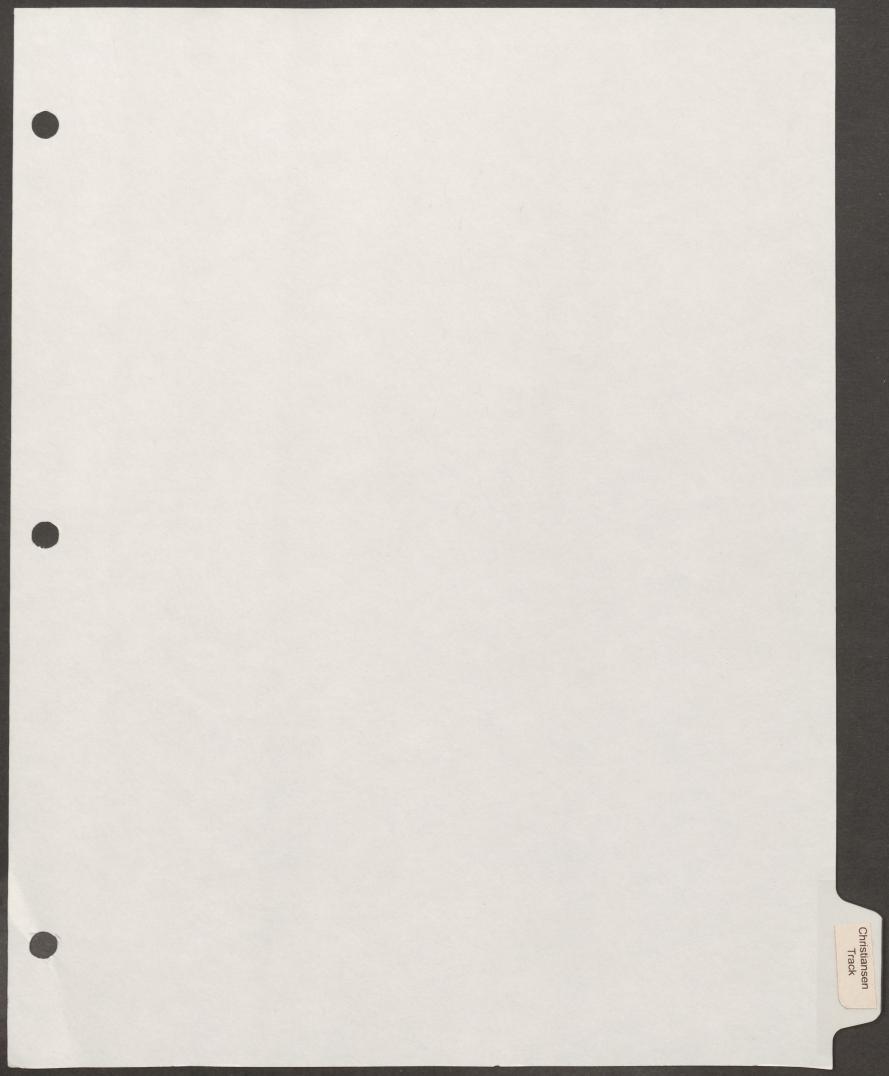
Thank you for your business!

251 Edison Dr., Fort Collins, CO 80523-6030









STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2016/2017 STATE BUILDINGS PROGRAM

| | uest | | Building/Infrastructure Request Capital Renewal Request (Y/N) |
|--|---|--|---|
| I) Agency Institutio | | Colorado State University Fort Collins | |
| 2) Executiv Director Signatur | r | ASatterty | Date 7-22-/6 |
| 3) Agency | ID No. | V | Project M # |
| 4) Agency | Priority # | ¥ 1 | |
| 5) Project | Title | lack Christiansen Memorial Track Resurface | |
| . FACILIT | | FII F | |
| 1) Facility 7 | The second second | Site (Utilities underground) | |
| , calling | | | Jack Christiansen Track |
| | | or Building Name (s) | |
| | | | |
| 2) Facility I | Location | Main Campus | |
| | | 005 | Date Built |
| 3) Facility / | Area/Age | e GSF ASF | |
| | | | |
| 4) Facility I | Function | | |
| 4) Facility I 5) Facility (| Function Construct | al Use/Occupancy <u>Athletics</u> ction (Type) | |
| 4) Facility I 5) Facility (| Function Construc Physical | al Use/Occupancy _Athletics | lumber |
| 4) Facility I 5) Facility (6) Facility I | Function Construc Physical | al Use/Occupancy <u>Athletics</u> ction (Type) Condition and Facility Condition Index (FCI) N | lumber |
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11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.

| Project No. | Project Title | date or status |
|-------------|---------------|----------------|
| | | |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Failed outdoor track surface and drainage issues.

2) Total Project Cost Estimate (From Cost Breakdown) \$

\$2,360,791 235999

3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The Jack Christiansen Memorial Track is used for athletic training and track events. Continued deterioration will limit and possibly curtail its use.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

Track resurfacing will be accompanied by infield regrading to improve drainage, thereby extending the life of the track.

| STATE OF COLORADO |
|---|
| OFFICE OF THE STATE ARCHITECT |
| CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 |
| STATE BUILDINGS PROGRAM |

| | ontrolled Main equest | tenance | | uilding/Infrastructure Request Capital Renewal Request (Y/N) |
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| | | | | Capital Kellewal Kequest (174) |
|) Ager Instit | ncy / Colora ution | ido State Univer | sity Fort Collins | |
|) Exec Direc | otor | | | Date |
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| FACI | LITY PROFILE | | | |
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| | | | | Jack Christiansen Track |
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Page 1 of 5

11) List all the controlled maintenance, capital construction, and emergency projects completed within the last five years or ongoing projects that can be associated with either this CM building or infrastructure request.
Completion

| | | Completion |
|-------------|---------------|----------------|
| Project No. | Project Title | date or status |
| | | |

C. INTEGRATED PROGRAM PLAN DATA

NOTE: For a Capital Renewal Building/Infrastructure Request, refer to the instructions for the additional information required to support the request as indicated below

1) Narrative Description of CM Problem (Initial problem and solution by phase):

Failed outdoor track surface and drainage issues. Existing asphalt base is 26 years old and running surface is 13 years old. There is cracking in the asphalt that extends to the dirt base. The running surface is delaminating and shrinking, causing tears. Phase 1 would demo and replace the existing track with new base and curbs. Phase 2 would address infield drainage concerns by regrading, finish concrete repairs and install steeplechase area.

2) Total Project Cost Estimate (From Cost Breakdown) \$ \$2,359,991

3) Consequences (cost effects, program impacts, facility impacts, etc.) of <u>not</u> funding and justifying this specific project request:

The Jack Christiansen Memorial Track is used for athletic training/practice and track events. Continued deterioration will limit and possibly curtail its use due to safety concerns for the runners.

- 4) Mandatory Include Facility Audit documentation from most recent audit. Include site maps for any infrastructure project request.
- 5) Optional Include photographs and any other supporting documents.
- 6) Explanation of how this project will improve the building(s) facility condition index or improve a specific infrastructure system.

Track resurfacing will be accompanied by infield regrading to improve drainage, thereby extending the life of the new track.

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 STATE BUILDINGS PROGRAM

D. DETAILED COST ESTIMATE (detail by phase, one page per phase, include all phases)

| 1) Approved By Mike Rush | 2) Phase? | 1 of 2 |
|--------------------------------|-----------------------------------|--------|
| 3) Method and Date of Estimate | Remodel and Construction Services | |

4) Professional Services

| Site Surveys, Investigations, and Reports: | Patrick and Annual States and Annual States |
|--|---|
| Arch/Eng/Basic Services: | 156,800 |
| Code Review/Inspection: | 5,046 |
| Other (Explain): PM fee & field supervision | 54,648 |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$216,494 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| <u>WORK ITEM</u> (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|---|--------------------------|-----------|--------------------------|
| Infrastructure | | | |
| a) Utility Services: | | | |
| | | | |
| b) Site Improvements: | | | And the second states |
| | | | |
| Structure/Systems/Components | | | The second second second |
| New base course/curbing/trench drain/ | | | 399,500 |
| BSS 10000 Red Embedded track surface | | | 616,250 |
| Other(explain): | | | |
| Demo existing track | | | 189,550 |
| | | | |
| Contractor's General Conditions: | | | 116,440 |
| Contractor's Overhead & Profit: | | | 96,260 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | |
| Total of Construction Improvement Costs: | | | \$1,418,000 |
| 5a) Total square feet/lineal feet of Construction Im | provement area: | | |

 5b) Overall cost per square foot/lineal foot of construction Improvement:
 \$

6) Miscellaneous (explain)

| Total of Miscellaneous Costs: | | \$ |
|-------------------------------|--|----|

7) Project Contingency

| Contingency (10% CM) (Percentage of total of professional services, construction | 163,449 |
|--|---------|
| improvements, and miscellaneous costs.) | |

| 8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional | al \$1,797,943 |
|--|----------------|
| services (4), construction improvements(5), miscellaneous costs(6), and project | |
| contingency(7) | |

Note: Agency formatted cost estimates may accompany this page.

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018 STATE BUILDINGS PROGRAM

D. <u>DETAILED COST ESTIMATE</u> (detail by phase, one page per phase, include all phases)

| 1) Approved By | Mike Rush | 2) Phase? | 2 of 2 | |
|--------------------|-------------|-----------------------------------|--------|--|
| 3) Method and Date | of Estimate | Remodel and Construction Services | | |

| 4) Professional Services | 4) | Professio | nal Services | |
|--------------------------|----|-----------|--------------|--|
|--------------------------|----|-----------|--------------|--|

| Site Surveys, Investigations, and Reports: | |
|--|-----|
| Arch/Eng/Basic Services: | |
| Code Review/Inspection: | * |
| Other (Explain): PM fee & field supervision | |
| Inflation Percentage/dollar amount: (required for each out year phase) | |
| Total of Professional Services: | \$0 |

5) Construction Improvement (by Construction Specification Institute (CSI) Division format)

| WORK ITEM (Labor/Material/Equipment) | UNIT sf, cf, lf, etc. | UNIT COST | EXTENDED COST |
|---|--------------------------|-----------|---------------|
| (Laborimaterial/Equipment) | <u>51, 01, 11, 010.</u> | | |
| Infrastructure | | | |
| a) Utility Services: | | | |
| | | | |
| b) Site Improvements: | | | |
| | | | |
| Structure/Systems/Components | | | |
| Field grading/flatwork/sod | | | 371,450 |
| Steeple chase and track accessories | | | 46,750 |
| Other(explain): | | | |
| | | | |
| | | | |
| Contractor's General Conditions: | | | 39,360 |
| Contractor's Overhead & Profit: | | | 34,440 |
| Inflation Percentage/dollar amount: (required for each out year phase) | | | 19,680 |
| Total of Construction Improvement Costs: | | | \$511,680 |

| 5a) Total square feet/lineal feet of Construction Improvement area: | |
|---|----|
| 5b) Overall cost per square foot/lineal foot of construction Improvement: | \$ |

6) Miscellaneous (explain)

| Total of Miscellaneous Costs: | | \$ |
|-------------------------------|--|----|

7) Project Contingency

contingency(7)

| Contingency (10% CM) (Percentage of total of professional services, construction | \$51,168 |
|--|-----------|
| improvements, and miscellaneous costs.) | |
| | |
| 8) Total Cost of the Project (single phase) or Total for this specific Phase of all professional | \$562,848 |
| services (4), construction improvements(5), miscellaneous costs(6), and project | |

Note: Agency formatted cost estimates may accompany this page.

STATE OF COLORADO **OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE PROJECT REQUEST FY 2017/2018** STATE BUILDINGS PROGRAM

E. PROPOSED PHASING

PRIOR PHASING¹

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Actual Appropriation) |
|-------------|--------------|----------------------------|---|
| | FY 2013/2014 | | |
| | FY 2014/2015 | | |
| | FY 2015/2016 | | |
| | FY 2016/2017 | | and the second second |

(Subtotal)

CURRENT PHASE² REQUESTED

| Proj. M# | Fiscal Year | Phase of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|---------------|---|
| | FY 2017/2018 | 1 of 2 | 1,797,143 |

FUTURE PHASING²

| Proj. M# | Fiscal Year | Phase or Phases of Work | Dollar Amount (Per Detailed Budget) |
|-------------|--------------|----------------------------|---|
| | FY 2018/2019 | 2 of 2 | 562,848 |
| | FY 2019/2020 | | |
| | FY 2020/2021 | | |
| | FY 2021/2022 | | |
| | | (Subtotal) | \$ 562,848 |

(Subtotal)

\$2,359,991

TOTAL PROJECT DOLLAR AMOUNT

(All Prior, Future Phases subtotals and Current Dollar amount)

- ¹ List all previous phases with actual appropriation by year (include federal funding). Note if different from requested amount.
- ² List all current and anticipated future phases with estimated costs as listed in the detailed cost estimate subtotal blank 8.

F. PROPOSED PROJECT IMPLEMENTATION SCHEDULE (PLAN):

| PHASE | FROM | то |
|---------------------------------------|-----------|-----------|
| 1. Pre-Design (Insert Dates) | | |
| 2. Design (Insert Dates) | July 2017 | Sept 2017 |
| 3. Construction (Insert Dates) | Sept 2017 | Sept 2018 |
| 4. Project Close-out/Final Completion | Oct 2018 | Oct 2018 |

\$



To:

EXPERTS • CARING • STEWARDS PROGRESSIVE • COLLABORATIVE

We get things done and drive results

REMODEL SERVICES BUDGET OPINION

(1) Colorado State University

This Budget Opinion is for budgetary purposes only. Prices may change after design is complete

Shelly CarrollDate:06/02/16Facilities Management, 6030Project #:160601D(970) 491-0167Customer ID#6030Facilities Services Center NorthExpiration Date:8/31/2016

| Steve Kellums | 491-0249 | Jack Christiansen Memorial Track Reconstruction Project | | | | |
|-----------------|----------------|---|------------------------------|----|---------------|--|
| | 556-7384 | - | | | | |
| | | | | | | |
| 1.00 | Lab & Mat | Remove existing track surface and asphalt. | \$ 23,000.00 | \$ | 23,000.00 | |
| 1.00 | Lab & Mat | Demo/Haul Off/Disposal. | \$ 200,000.00 | \$ | 200,000.00 | |
| 1.00 | Lab & Mat | Install exterior curbing. | \$ 50,000.00 | \$ | 50,000.00 | |
| 1.00 | Lab & Mat | Install interior ACO trench drain. | \$ 100,000.00 | \$ | 100,000.00 | |
| 1.00 | Lab & Mat | Install/compact aggregate base course and 4" asphalt. | \$ 320,000.00 | \$ | 320,000.00 | |
| 1.00 | Lab & Mat | Field grading and drainage work and drainage connections. | \$ 90,000.00 | \$ | 90,000.00 | |
| 1.00 | Lab & Mat | Install concrete flatwork. | \$ 63,000.00 | \$ | 63,000.00 | |
| 1.00 | Lab & Mat | Construct steeple chase area. | \$ 35,000.00 | \$ | 35,000.00 | |
| 1.00 | Lab & Mat | Track accessories. | \$ 20,000.00 | \$ | 20,000.00 | |
| 1.00 | Lab & Mat | Install electrical conduit. | \$ 14,000.00 | \$ | 14,000.00 | |
| 1.00 | Lab & Mat | Field topsoil and final grading. | \$ 170,000.00 | \$ | 170,000.00 | |
| 1.00 | Lab & Mat | Install new irrigation system. | \$ 30,000.00 | \$ | 30,000.00 | |
| 1.00 | Lab & Mat | Install new sod. | \$ 70,000.00 | \$ | 70,000.00 | |
| 1.00 | Lab & Mat | Install BSS 1000 Red Embedded track running surface. | \$ 725,000.00 | \$ | 725,000.00 | |
| 1.00 | Lab & Mat | Field supervision. | \$ 50,000.00 | \$ | 50,000.00 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | Construction Subtotal | | \$1,960,000.0 | |
| | | | Contingency | \$ | 196,000.00 | |
| | | | Design Fees | \$ | 156,800.00 | |
| | | | Third Party Code Review Fees | | | |
| | | | Project Management Fees | \$ | 63,504.00 | |
| | | | Advertisement Fees | \$ | 500.00 | |
| This is a preli | iminary cost e | evaluation. Estimated pricing is based on currently available pricing | Tota | | \$2,381,850.0 | |

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

Budget Opinion is for this project only and is subject to the conditions noted below:

1. Packing of book shelves or files prior to moving is not included.

2. Asbestos or Lead hazard assessment or abatement is not covered unless stated

3. This quote does not cover the activation of phone and data lines; customer

will need to contact Telecom to activate lines

To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please

Thank You For Your Business

\$193,598.00

| FACILITIES EXPERTS + CARING + STEWARDS PROGRESSIVE + COLLABORATIVE We get things done and drive results | REMODEL SERVICES BUDGET OPINION |
|---|--|
| Colorado State University | This Budget Opinion is for budgetary purposes only. Prices may change after design is complete |
| To: Shelly Carroll | Ruse W19 Date: 06/02/16 |
| Facilities Management, 6030 | Project #: 160601D |
| (970) 491-0167 | Customer ID# 6030 |
| Facilities Services Center North | Expiration Date: 8/31/2016 |
| | |
| Steve Kellums 491-0249 Jack Christiansen Memorial Track Reco | onstruction Project |
| 556-7384 | |

| | 556-7384 | | | | | |
|------|-----------|---|-------------------------|---------|----------------|-----|
| | | | | | | |
| .00 | Lab & Mat | Remove existing track surface and asphalt. | \$ 23,000.00 | \$ | 23,000.00 | 4 |
| .00 | Lab & Mat | Demo/Haul Off/Disposal. | \$ 200,000.00 | \$ | 200,000.00 | 1 |
| .00 | Lab & Mat | Install exterior curbing. | \$ 50,000.00 | \$ | 50,000.00 | 1 |
| .00 | Lab & Mat | Install interior ACO trench drain. | \$ 100,000.00 | \$ | 100,000.00 | 1 |
| .00 | Lab & Mat | Install/compact aggregate base course and 4" asphalt. | \$ 320,000.00 | \$ | 320,000.00 | 1 |
| 1.00 | Lab & Mat | Field grading and drainage work and drainage connections. | \$ 90,000.00 | \$ | 90,000.00 | 102 |
| .00 | Lab & Mat | Install concrete flatwork. | \$ 63,000.00 | \$ | 63,000.00 | 2 |
| 1.00 | Lab & Mat | Construct steeple chase area. | \$ 35,000.00 | \$ | 35,000.00 | 1 |
| .00 | Lab & Mat | Track accessories. | \$ 20,000.00 | \$ | 20,000.00 | 2 |
| 1.00 | Lab & Mat | Install electrical conduit. | \$ 14,000.00 | \$ | 14,000.00 | 1 |
| .00 | Lab & Mat | Field topsoil and final grading. | \$ 170,000.00 | \$ | 170,000.00 | 2 |
| 1.00 | Lab & Mat | Install new irrigation system. | \$ 30,000.00 | \$ | 30,000.00 | 2 |
| 1.00 | Lab & Mat | Install new sod. | \$ 70,000.00 | \$ | 70,000.00 | 2 |
| 1.00 | Lab & Mat | Install BSS 1000 Red Embedded track running surface. | \$ 725,000.00 | \$ | 725,000.00 | 2 |
| 1.00 | Lab & Mat | Field supervision. | \$ 50,000.00 | \$ | 50,000.00 | SPL |
| | | | | | | |
| | | | Construction Sub | total | \$1,960,000.00 | |
| | | | Continge | ency \$ | 196,000.00 | |
| | | | Design | Fees \$ | 156,800.00 | |
| | | | Third Party Code Review | Fees \$ | 5,046.00 | |
| | | | Project Management | Fees \$ | 63,504.00 | |
| | | | Advertisement | Fees \$ | 500.00 | |

This is a preliminary cost evaluation. Estimated pricing is based on currently available pricing information. It is possible that unknown conditions, a more detailed analysis, changes in scope and the bidding process could cause substantial changes in the estimate. Please do not send payment for construction based upon this amount.

Budget Opinion is for this project only and is subject to the conditions noted below:

- 1. Packing of book shelves or files prior to moving is not included.
- 2. Asbestos or Lead hazard assessment or abatement is not covered unless stated

3. This quote does not cover the activation of phone and data lines; customer

will need to contact Telecom to activate lines

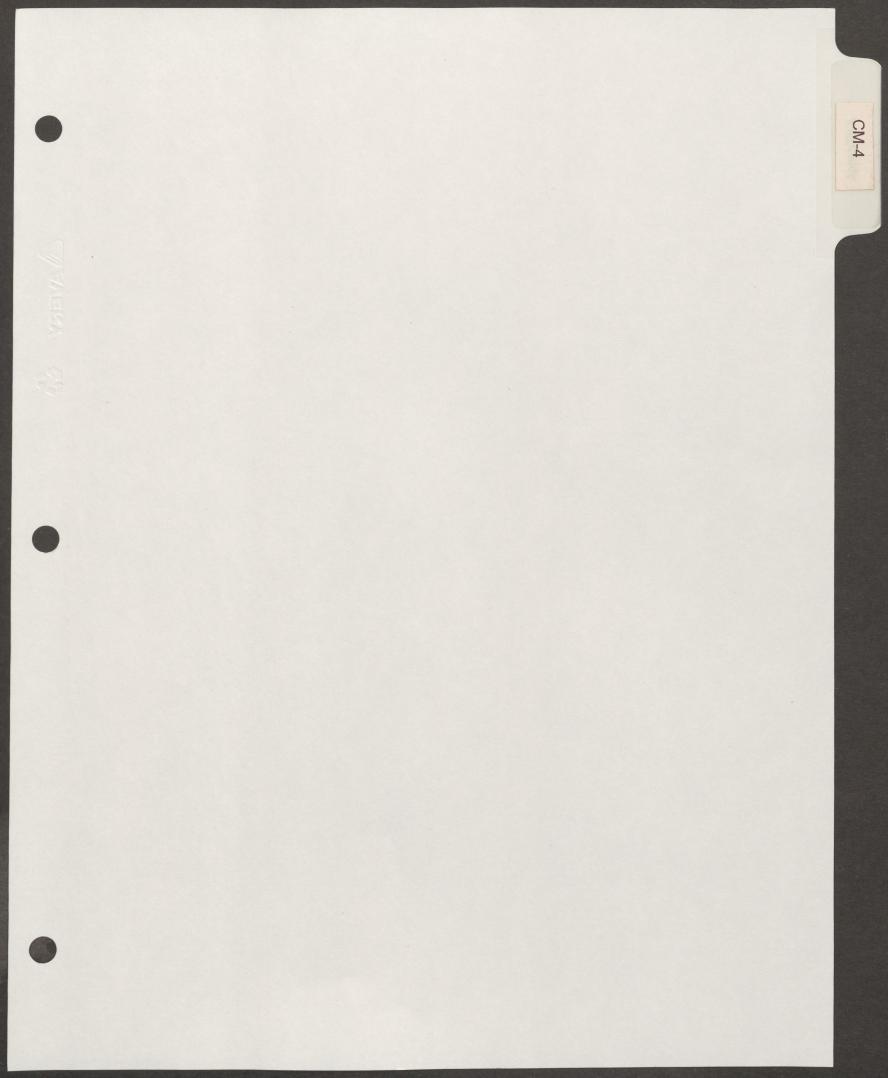
To proceed please submit a Kuali Transfer of Funds document for the amount shown in red to the right, covering Design fees, Code Review fees, and 1/2 the PM fee. Our account is 7741480 OC 9904; your OC is 9905. For questions with this process, please call our Finance section at 970-566-1497. *For 53 funds please

Thank You For Your Business



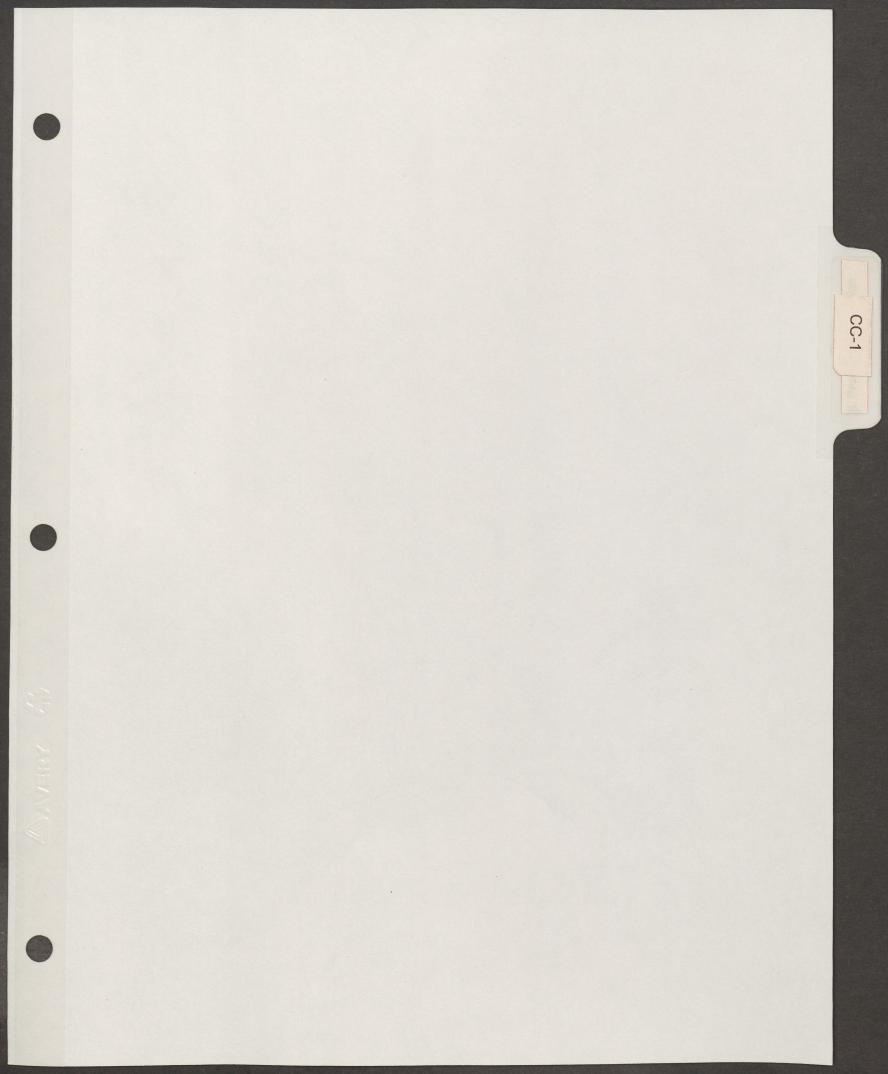
\$2,381,850.00

Total



Office of the State Architect State Buildings Programs

| | ed Maintenance Forms | (2) | (4) | (5) | (6a) | (6b) | (7a) | (7b) | (8) | (9) | (10) | (11) |
|---|---|-------------------|---------------------|-------------------------|-------------|---|------------------|------------------------|-----------------------|--------------------|------------|-------------------|
| (1) | (2) | (3) | (4) | (5) | (04) | Percent of | Dollars | Percent of | Date of | E 1 1 1 1 1 4 | | |
| | | | | | Dollars | Dollars Committed to | Approved /Pay | Dollars Approved to | Notice of Substantial | Exhibit L1 Code | Exhibit L2 | |
| | | CCFE | 011 | | Contract | Committed to Appropriation | Application | Appropriation | Completion | | SC-4.1 | |
| Project | | Appropriation | Other Funds (\$) | Date Funds Available | Totals (\$) | (%) | Totals (\$) | (%) | (SBP-07) | Date | Dale | Comments /Status |
| lumber Proje | ect Description, Phase | (\$) \$352,000 | | | \$352,000 | and the second se | | | | NA | | Phase complete |
| /13016 Repa | air College Lake Dam, Ph 1 of 2 | \$344,708 | | | +, | | | | 10/1/2018 | 3/1/2019 | 8/1/2019 | In Construction |
| 2015- Repla | air College Lake Dam, Ph 2 of 2 lace Obsolete Fire Alarm, Various | \$753,948 | | | \$753,948 | 100% | \$753,948 | 100% | NA | NA | 12/1/2016 | Phase complete |
| 015- Repl | dings, Ph 1 of 2 lace Obsolete Fire Alarm, Various | \$967,301 | | | | 100% | \$918,268 | 95% | 10/1/2016 | 12/1/2016 | 3/1/2017 | In Construction |
| 2015- Repl | dings, Ph 2 of 2 blace Deteriorated Natural Gas | \$592,150 | | | \$555,581 | 94% | \$455,888 | 77% | 10/1/2016 | 2/1/2017 | 4/1/2017 | 7 In Construction |
| 2015- Repl | es, Main Campus, Ph 1 of 1 place Deteriorated Domestic Water es, Main Campus, Ph 1 of 1 | \$761,381 | |) 12/31/2014 | \$760,608 | 100% | \$51,007 | 7% | 8/1/2017 | 12/1/2017 | 3/1/2018 | 3 In Construction |
| 2015- Critic | ical Life Safety Elevator Upgrades, | \$616,463 | | | | 100% | \$602,150 | 98% | 8/1/2016 | 6 12/1/2016 | 12/1/2010 | 6 In Construction |
| 2017- Floo | e Buildings, Ph 1 of 1 | | | | |) 0% | \$(| 0% | 6 10/1/201 | 8 3/1/2019 | 8/1/201 | 9 In Design |
| 041M16 Plan 2015- HVA 107M14 Ph 1 | nt, Main Campus, Ph 1 of 1 AC Upgrades, Chemistry Building, 1 of 1 | \$800,865 | - Carrow - | | | | \$ | 0 0% | 6 10/1/201 | 8 3/1/2019 | 8/1/201 | 9 In Design |



FY17-18 CSU Spreadsheet-updated.xlsx CC-1 Project Status

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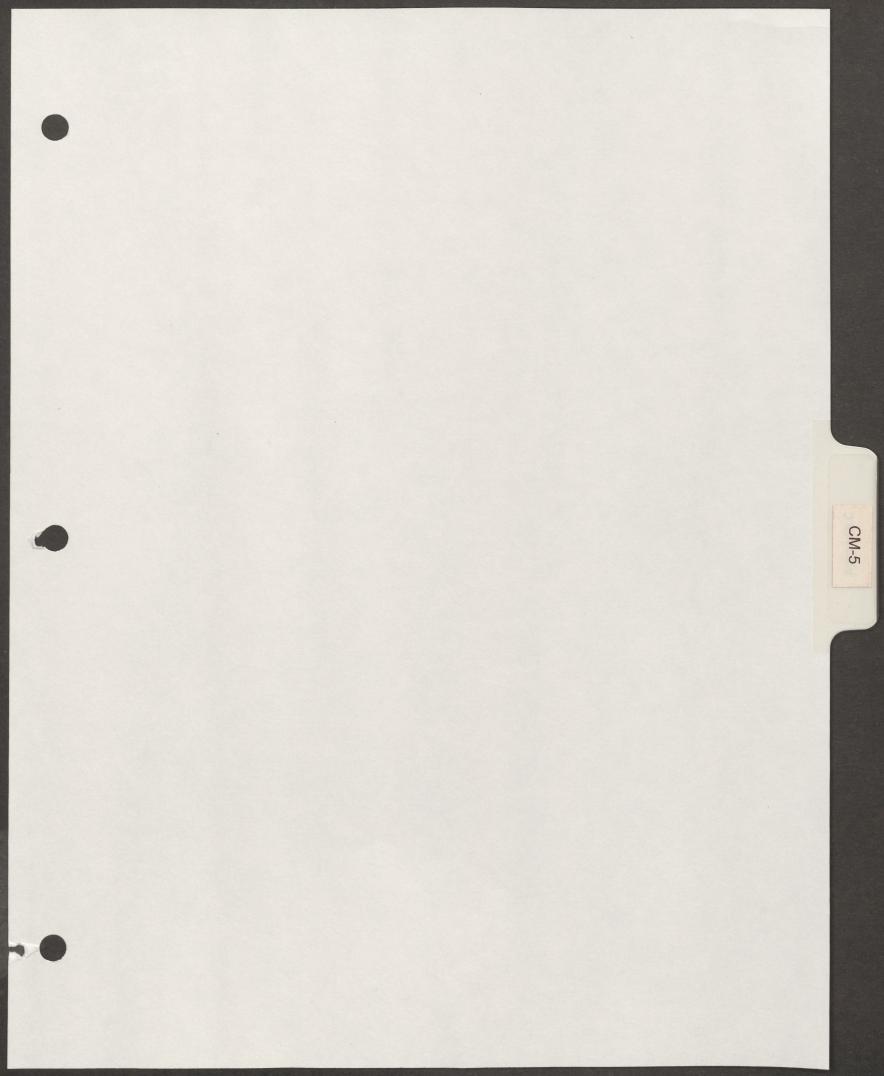
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Office of the State Architect State Buildings Programs Controlled Maintenance Forms

| 009- 20P14 Che 009- | (2) oject Description, Phase nemistry Building Addition, Ph 1 of 3 nemistry Building Addition, Ph 2 of 3 | (3) CCFE Appropriation (\$) \$15,000,000 | (4) Other Funds (\$) \$0 | Date Funds Available | (6a) Dollars Committed/C ontract Totals (\$) | (6b) Percent of Dollars Committed to Appropriation (%) | Dollars Approved /Pay Application Totals (\$) | Percent of Dollars Approved to Appropriation (%) | Date of Notice of Substantial Completion (SBP-07) | Exhibit L1 Code Compliance Date | Exhibit L2 SC-4.1 Date | Comments /Status | HPC |
|---------------------------|---|--|--|--|--|---|---|--|---|--|------------------------------|--|-----------------|
| 009- 20P14 Che 009- | emistry Building Addition, Ph 1 of 3 | | \$0 | 0/40/2044 | | | | 1. 1 | 1. /8 | | | | |
| .009- | | | | 9/12/2014 | \$15,000,000 | 100% | \$11,303,645 | 75% | NA | NA | NA | Phase Complete | |
| | Cillibrity Dunding / taution, i in = or o | \$23,694,678 | \$5,400,000 | 7/1/2015 | \$17,636,839 | 61% | \$0 | 0% | NA | NA | NA | In Construction | |
| .009- | nemistry Building Addition, Ph 3 of 3 | \$12,471,940 | \$0 | 7/1/2016 | \$0 | 0% | \$0 | 0% | 8/1/2017 | 12/1/2017 | 6/1/2018 | 3 In Construction | Gold |
| Agg | gie Village North Redevelopment, Ph 1 | | \$119,627,376 | 12/1/2013 | \$112,168,207 | 94% | \$100,399,714 | | | 12/1/2016 | | 7 In Construction 8 In Construction | Gold Certifi |
| V/A of 1 | ultipurpose Stadium, Ph 1 of 1 | | \$238,200,000 | | \$94,250,222 | | \$64,273,723 | | | | | 3 In Construction | Gold |
| | ology Building, Ph 1 of 1 | \$0 | | | \$57,181,165 | 82% | \$17,550,501 | 25% | 8/1/2017 | 12/1/2017 | 4/1/2010 | | |
| Pati | athology Building Prion Lab | Remark \$0 | Normal States of Providence And Addition in the Providence | ALTHOUGH STATE ACTIVATION OF THE ADDRESS | | 78% | \$1,695,748 | 65% | 8/1/2017 | 12/1/2017 | 4/1/2018 | 8 In Construction | NA |
| V | | \$0 | | | \$15,457,196 | 72% | \$12,664,823 | | | | | 7 In Construction 8 In Construction | NA Silver |
| | buth Campus Parking Garage, Ph 1 of 1 | \$0 | | | | | \$17,053,683 | 29% | 8/1/2017 | 3/1/2018 | 3 6/1/2010 | 8 In Construction | Onver |
| Hea | edical Center, Ph 1 of 1 ealth and Exercise Science Classroom ddition, Ph 1 of 1 | \$0 | | | |) 100% | | | | and it is a second | | 7 Complete 7 Complete | NA |
| | gersoll Hall Renovations, Ph 1 of 1 | \$0 | | | | 1 76% | \$3,035,895 | | | | | 7 Complete | NA |
| | rospect and Center Underpass | \$0 | | | | | \$3,000,666 | | | | | 6 Complete | NA |
| | esearch Dr. Parking lot | \$0 | | | \$4,097,734 | 4 100% | \$4,087,656 | 3 100% | 8/1/2015 | | 12/1/201 | | |

7/18/2016

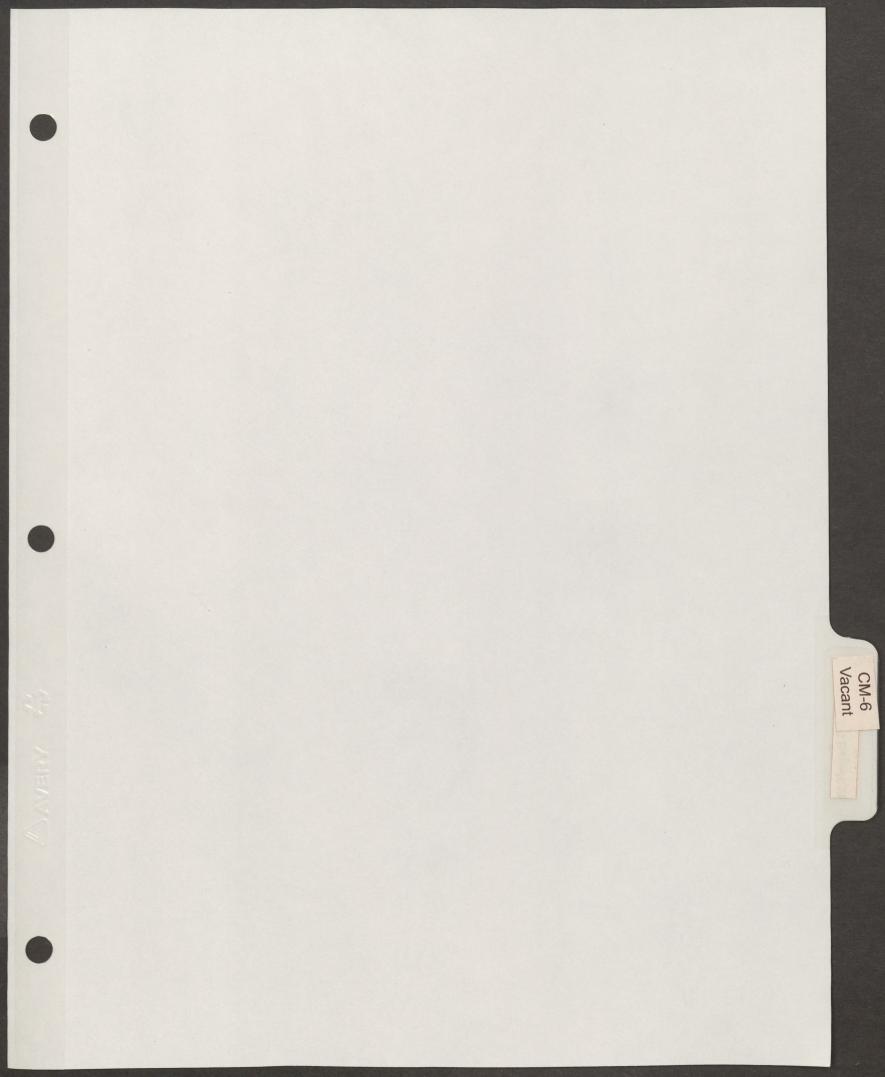
1



| | | | | | | | | | | | | | | | - |
|-------------------------------|-----------|------------------------|--------------|----------------|----------|-----------------|------------|-----------|------------------|----------------|-------------------|------------------------------------|-----------------------|---------------------------|-----|
| | | | | | | | | | | (21) Total | Building Esti | mated Deficier | icies = | 661,886,571 | |
| | | | | | | | | | | 121/10101 | Dulloing Loui | indicid Denoior | | | |
| | | | | | | | | | | Note: Desired | - indentified in | the Europe plan et | hould have corresp | ponding building | |
| | | | | | | | | | | deficiencies i | indicated in the | actual FCI (colum | nn-11) and buildin | g targeted deficiency | |
| | | | | | | | | | | value (colum | n-15) as indent | ified through the | facility audit proce | 155. | - |
| | | | | | | | | | | | | | | s - | - |
| | | | 0 | | | | | | | (22) Code | Compliance | Estimated De | liciencies = | \$.4.000.000 | |
| | | | | | | | | | | (23) Infras | tructure Defi | ciencies - Abov ciencies - Belo | Ve Ground = | \$ 127,000,000 | - |
| | | | | | | | | | | | (define) =as | | W Ground - | \$ 13,600,000 | |
| | | | | | | | | | | (25) Outer | (denne) =ac | 003103 | | • | |
| | | | | | | | | | | (26) Total | Major Mainte | enance Need to | o date = | \$ 806,486,571 | |
| | | | | | | | | | | Note Total M | Aajor Maintenar | nce Need is the su | um of items 21 thr | ough 25. | - |
| | | | | | | | | | | | | | | | - |
| | | | 6,502,908 | 4,139,633 | 12,464 | \$2,960,615,857 | | otals | | | | | | | - |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | - |
| Building Name | Div. Of | Occupancy Type | Academic or | Non-Academic | Vacant / | CRV | Date Built | Date | Date of Facility | F.C.I. | F.C.L | CRV x (1- | CRV x (1- T/FCI) = | A/DET-T/DET = Targeted | 0 |
| | Risk Man. | | General Fund | or Non-General | Not | | | Acquired | Audit | (Actual) | (Target) T/FCI | A/FCI) = A/DET | T/DET | Deficiency | CI. |
| | No | | G.S.F. | Fund G.S.F. | Utilized | | | | | A/FCI | ITECI | AUDET | IDEI | Denciency | |
| | | | | | G.S.F. | | | | | | | | | | - |
| | | | 4,001 | | | \$1,249,712 | 7/1/10/6 | 7/1/10/6 | | 86% | 100% | \$174,960 | 0 | \$174,960 | |
| Diversity House | | Office | 4,001 | 17.671 | | \$5.519.537 | | | | 80% | 100% | \$1,103,907 | | \$1,103,907 | |
| Palmer Center | | Residency | | 104.898 | | \$20,294,616 | | | | 80% | 100% | \$4,058,923 | | \$4,058,923 | |
| Westfall Hall | | | | 46,268 | | \$8.951.470 | | | | 95% | 100% | \$447,573 | | \$447,573 | |
| Durrell Center | 3191 | Residency Residency | | 104.898 | | \$20,294,616 | | | | 80% | 100% | \$4,058,923 | | \$4,058,923 | |
| Durward Hall | 3192 | Residency | | 223.334 | | \$43,208,429 | | | | 80% | 100% | \$8,641,686 | | \$8,641,686 | |
| Corbett Hall Parmelee Hall | 3195 | Residency | | 148,740 | | \$28,776,728 | | | | 80% | 100% | \$5,755,346 | | \$5,755,346 | |
| Green Hall | 3190 | Office | 21.891 | 1100110 | | \$4,235,252 | | | | 74% | 100% | \$1,101,165 | | \$1,101,165 | |
| Allison Hall | 3197 | Residency | 21.001 | 98.023 | | \$18,964,510 | | | | 80% | 100% | \$3,792,902 | | \$3,792,902 | |
| Rockwell Hall | 3199 | Office | 60.567 | | | \$11,717,897 | 7/1/1940 | 7/1/1940 | | 76% | 100% | \$2,870,885 | | \$2,870,885 | |
| Ingersoll Hall | 3200 | Residency | | 98,888 | | \$19,131,861 | | | | 74% | 100% | \$4,974,284 | | \$4,974,284 | |
| Edwards Hall | 3200 | Residency | | 98,023 | | \$18,964,510 | | | | 74% | 100% | \$4,930,773 | | \$4,930,773 | |
| Newsom Hall | 3203 | Residency | | 104.510 | | \$20,219,550 | | | | 74% | 100% | \$5,257,083 | | \$5,257,083 | |
| Aylesworth Hall | 3204 | Office | 87.523 | | | \$16,933,075 | | | | 49% | 100% | \$8,596,922 | | \$8,596,922 | |
| Braiden Hall | 3205 | Residency | | 156,552 | | \$30,288,115 | 7/1/1963 | 7/1/1963 | | 92% | 100% | \$2,423,049 | | \$2,423,049 | |
| Baseball Press Bo | | Athletic or PE | 270 | | | | | 12/1/1984 | | 80% | 100% | \$6,120 | | \$6,120 \$2,567,489 | |
| Lastaham Health | 12207 | Hospital or Clinic | | 39 169 | | \$11,670,404 | 7/1/1964 | 7/1/1964 | | 78% | 100% | \$2,567,489 | | \$2,567,489 | - |

| | 6,502,908 | 4,139,633 | 12,464 | \$2,960,615,857 | T | otals | | | | | | 1453 | (16) | (17) | (18) | (19) | Agency N | Street 1 | Street 2 | City |
|--|--|-------------------------|----------|------------------------------|--|--|--|--|---|---|---|--|--|---|--|--|--|---|--|--|
| (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) Code | | Current | | will ency on | | JUDELL | 1 |
| Occupancy Type | Academic or | Non-Academic | Vacant / | CRV | Date Built | Date | Date of Facility | F.C.I. | F.C.I | CRV x (1- | CRV x (1- | A/DET-T/DET = Targeted | Projects | | CM | EM | | | | |
| | General Fund | or Non-General | Not | | | Acquired | Audit | (Actual) | (Target) | A/FCI) = A/DET | T/FCI) = T/DET | Deficiency | FIUJECIS | | | Projects | | | | E CONTRACTOR OF |
| | G.S.F. | Fund G.S.F. | Utilized | | | | | A/FCI | T/FCI | AUEI | IDET | Denciency | 1 | 1.10,000 | 110,0010 | | | | | |
| | | | G.S.F. | | | | | | | | | | | | | | | | | |
| | | | | | 7111010 | 7/4/10/10 | | 86% | 100% | \$174,960 | 0 | \$174,960 | | | | | | 645 S. SHIELDS ST. | | FORT COLLINS, CO 8 |
| ffice | 4.001 | | | \$1,249,712 | | | | | 100% | | | \$1,103,907 | | | | | | 1005 W. LAUREL ST. | | FORT COLLINS, CO |
| ffice | | 17.671 | | \$5.519.537 | | | | 80% 80% | 100% | | | \$4,058,923 | | | | | | 1009 W. LAUREL ST. | | FORT COLLINS, CO |
| esidency | | 104,898 | | \$20,294,616 | | | | 95% | 100% | | | \$447,573 | | | | | | 950 W. PLUM ST. | | FORT COLLINS, CO |
| esidency | | 46,268 | | \$8,951,470 | | | | 80% | 100% | | | \$4,058,923 | | | | | | 1001 W. LAUREL ST. | | FORT COLLINS, CO |
| esidency | | 104.898 | | \$20,294,616 \$43,208,429 | | | | 80% | 100% | | | \$8,641,686 | | | | | | 801 W. LAUREL ST. | | FORT COLLINS, CO |
| esidency | | 223.334 148.740 | | \$28,776,728 | | | | 80% | | \$5,755,346 | | \$5,755,346 | | | | | | 701 W. LAUREL ST. | | FORT COLLINS, CO |
| esidency | 04.004 | 148,/40 | | \$4,235,252 | 7/1/1902 | 7/1/1902 | | 74% | | \$1,101,165 | | \$1,101,165 | | | | | | 750 MERIDIAN ST. | | FORT COLLINS, CO |
| ffice | 21,891 | 98.023 | | \$18,964,510 | | | | 80% | 100% | | | \$3,792,902 | | | | | | 551 W. LAUREL ST. | | FORT COLLINS, CO |
| lesidency | 502.00 | 96.023 | | \$11,717,897 | | | | 76% | 100% | | | \$2,870,885 | | | | | | 501 W. LAUREL ST. | | FORT COLLINS, CO |
| Office | 60,567 | 98.888 | | \$19,131,861 | | | | 74% | | \$4,974,284 | | \$4,974,284 | | | | | | 1000 W. PITKIN ST. | | FORT COLLINS, CO |
| esidency | | 98.023 | | \$18,964,510 | | | | 74% | 100% | | | \$4,930,773 | 5 | | | | | 900 W. PITKIN ST. | | FORT COLLINS, CO |
| esidency | | 104.510 | | \$20,219,550 | | | | 74% | 100% | | | \$5,257,083 | | | | | | 700 W. PITKIN ST. | | FORT COLLINS, CO |
| lesidency | 87.523 | 104.510 | | \$16.933.075 | | | | 49% | 100% | | | \$8,596,922 | | _ | | | | 1100 MERIDIAN AVE. | | FORT COLLINS, CC |
| Office | 01.323 | 156.552 | | \$30,288,115 | | | | 92% | 100% | \$2,423,049 | | \$2,423,049 | | _ | | | | 500 W. PITKIN ST. | | FORT COLLINS, CC |
| thesidency | 270 | 100,002 | | | | 12/1/1984 | | 80% | 100% | | | \$6,120 | | | | | | 958 SOUTH DR. | | FORT COLLINS. CO |
| lospital or Clinic | 610 | 39,169 | | \$11,670,404 | 7/1/1964 | 7/1/1964 | | 78% | 100% | \$2,567,489 | | \$2,567,489 | | | | | | 600 SOUTH DR. | | FORT COLLINS, CC |
| thletic or PE | 527 | 00,100 | | | 8/1/1982 | | | 74% | 100% | | | \$15,528 | | | | | | 960 SOUTH DR | | FORT COLLINS, CC |
| lesearch | 350 | | | \$104,283 | 7/1/1961 | 7/1/1961 | | 70% | 100% | | | \$31,285 | | | | | | 601 W. PLUM ST. | | FORT COLLINS, CO |
| tudent Center | 0.00 | 381,815 | | \$119,259,915 | | | | 96% | | \$4,770,397 | | \$4,770,397 | | | | | | 1101 CENTER AVE. MA | h-h- | FORT COLLINS, CC |
| Office | 232.514 | | | \$102,878,144 | | | | 74% | | \$26,449,971 | | \$26,449,971 | | | | | | 400 ISOTOPE DR. 400 ISOTOPE DR. | | FORT COLLINS, CC |
| torage/Shop | 800 | | | \$166,272 | 7/1/1963 | 7/1/1963 | | 68% | 100% | | | \$53,207 | | | | | | 851 OVAL DR. | | FORT COLLINS, CC |
| Office | 26.624 | | | \$8,316,006 | 7/1/1908 | 7/1/1908 | | 70% | | \$2,517,255 | | \$2,517,255 | | | | | | 841 OVAL DR. | | FORT COLLINS, CC |
| Office | 55.225 | | | \$17,249,529 | 7/1/1922 | 7/1/1922 | | 71% | | \$5,078,261 | | \$5,078,261 | | | | | | 711 OVAL DR. | | FORT COLLINS, CC |
| Office | 24.467 | | | \$4,733,630 | | | | 76% | 100% | | | \$1,122,344 | | | | | | 701 OVAL DR. | | FORT COLLINS, CO |
| hapel | 1.059 | | | | 7/1/1954 | | | 70% | 100% | | | \$66,854 | | | | | | 291 W. LAUREL ST. | | FORT COLLINS, CO |
| Office | 17.765 | | | \$5,548,898 | | | | 64% | 100% | | | \$2,014,805 | | | | | | 222 W. LAUREL ST. | | FORT COLLINS, CO |
| Office | 5,427 | | | \$1,161,866 | | | | 80% | 100% | | | \$232,373 \$2,418,526 | | | | | | 251 W. LAUREL ST. | | FORT COLLINS, CO |
| lassroom | 25,810 | | | \$8,061,754 | | | | 70% | 100% | | | \$2,418,526 | | | | | | 700 OVAL DR. | | FORT COLLINS, CO |
| Office | 14.983 | | | \$4,679,940 | 7/1/1884 | 7/1/1884 | | 81% | 100% | | | \$2.342.350 | | | | | | 201 W. LAUREL ST. | | FORT COLLINS, CO |
| lassroom | 20,246 | | | \$6,323,838 | | | | 63% | 100% | | | \$395,095 | | | | | | 151 W. LAUREL ST. | | FORT COLLINS, CO |
| Office | 4,918 | | | \$1,536,137 | | | | 74% | 100% | | | \$44,014 | | | | | | 191 W. LAUREL ST. | | FORT COLLINS, CO |
| storage/Shop | 498 | | | \$104,794 | | | | 58% 71% | 100% | | | \$538,589 | | | | | | 700 S. MASON ST. | | FORT COLLINS, CO |
| Office | 5.873 | | | \$1,834,432 | | | | 69% | 100% | | | \$1,799,848 | | | | | | 150 OLD MAIN DR. | Carlo Carlos | FORT COLLINS, CO |
| Office | | 18,788 | | \$5,868,432 | | | | 75% | 100% | | | \$76,838 | | | | | | 201 OLD MAIN DR. | | FORT COLLINS, CC |
| Research | 984 | | | | 7/1/1910 | | | 72% | 100% | | | \$1,920,054 | | | | | | 800 OVAL DR. | | FORT COLLINS, CC |
| Office | 22,104 | | | \$6,904,184 | 7/1/1919 | 7/1/1919 | | 78% | 100% | | | \$979,248 | | | | | | 850 OVAL DR. | | FORT COLLINS, CC |
| Office | 14.084 | | | \$4,399,137 \$28,873,444 | 7/1/1905 | 7/1/1905 | | 75% | 100% | | | \$7,218,36 | | | | | | 880 OVAL DR. | | FORT COLLINS, CO |
| Physical Plant Service | 19.371 | 42.440 | | \$4,200,483 | | | | 77% | 100% | | | \$975,772 | | | | | | 850 S. MASON ST. | | FORT COLLINS. CC |
| Classroom | | 13,448 | | \$12.377.875 | | | | 72% | 100% | | | \$3,519,030 | | | | | | 901 S. COLLEGE AVE. | | FORT COLLINS, CC |
| Athletic or PE | 61.877 | | | \$3.589.214 | 7/1/1924 | 7/1/1910 | | 73% | 100% | | | \$953,295 | 5 | | | | | 150 UNIVERSITY AVE | | FORT COLLINS, CO |
| Office | 36,717 | | | \$11,468,555 | | | | 68% | 100% | \$3,638,972 | | \$3,638,972 | 2 | | | | | 1050 EAST DR. | | FORT COLLINS, CO |
| Office | 43,145 | | | \$13,476,341 | | | | 85% | 100% | \$2,021,451 | | \$2,021,451 | | | | | | 1000 EAST DR. | | FORT COLLINS, CO |
| Office | 49,944 | | | \$15,600,008 | | | And the second second | 62% | 100% | \$5,912,403 | | \$5,912,403 | | | | | | 950 EAST DR. | | FORT COLLINS, CO |
| Office | 32.172 | | | \$10.048.924 | 7/1/1924 | 7/1/1924 | | 75% | | \$2,522,280 | | \$2,522,280 | | | | | | 900 OVAL DR. | | FORT COLLINS, CO |
| Office Office | 27.046 | | | \$8,447,818 | | | | 56% | 100% | \$3,750,831 | | \$3,750,831 | | | | - | | 1001 AMY VAN DYKEN | WAY | FORT COLLINS, CO |
| Office | 73.027 | | | \$22,809,983 | | | | 63% | 100% | | | \$8,530,934 | | | | | | 400 UNIVERSITY AVE. | | FORT COLLINS, CO |
| | 4.000 | | | | | | | 86% | 100% | | | \$174,916 | | | | | | 971 AMY VAN DYKEN | | FORT COLLINS, CO |
| | | | | | | | | 66% | | | | | | | | | | | NAY | FORT COLLINS, CO |
| | 52.823 | | | \$16,499,264 | 7/1/1950 | 7/1/1950 | | | | | | | | | | | | | | FORT COLLINS, CO |
| | | | | \$36,821,079 | 7/1/1959 | 7/1/1959 | | 79% | 100% | \$7,588,824 | | \$7,588,824 | 4 | | - | _ | | 1307 UNIVERSITY AVE. | | FORT COLLINS, CO |
| AND MILLION | A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O | | | | | | | 4 | | | | | | | | | | | | |
| | | | | | | | | A | | | | | | | | | | | | |
| Research Office Office Research | | <u>48,160</u> 52,823 | 48,160 | 48,160 52,823 | 48,160 \$15,042,776 52,823 \$16,499,264 | 48.160 \$15.042.776 7/1/1939 52.823 \$16.499.264 7/1/1950 | 48,160 \$15,042,776 7/1/1939 7/1/1939 52,823 \$16,499,264 7/1/1950 7/1/1950 | 48,160 \$15,042,776 7/1/1939 7/1/1939 52,823 \$16,499,264 7/1/1950 7/1/1950 | 48,160 \$15,042,776 7/1/1939 66% 52,823 \$16,499,264 7/1/1950 7/1/1950 7/1% | 48.160 \$15.042.776 77/1/939 77/1/939 66% 100% 52.823 \$16.499.264 71/1/950 77/1/950 71% | 4,000 31,232,700 //1/300 66% 100% \$5,073,928 48,160 \$15,042,776 7/1/1939 66% 100% \$5,073,928 52,823 \$16,499,264 7/1/1950 71% 100% \$4,769,937 | 4,000 \$1249360 //1/839 //1/839 666% 100% \$5,073,928 48,160 \$15,042,776 //1/1939 666% 100% \$5,073,928 52,823 \$16,499,264 //1/1950 71/1950 71% 100% \$4,769,937 | 4,000 51,243,400 //1/1950 05/2 48,160 \$1,51,042,776 7/1/1939 66% 100% \$5,073,928 \$5,073,928 52,223 \$16,499,264 7/1/1950 71% 100% \$4,769,937 \$4,769,937 | 4,000 51,249,300 //1/300 00//// 00/// 00//// 00//// 00//// 00//// 00//// 00//// 00//// 00//// 00//// 00//// 00//// 00//// 00///// 00///// 00///// 00///// | 4.000 \$1,249,400 //1/3930 05/20 00% \$5,073,928 \$5,073,928 48,160 \$15,042,776 7/1/1939 66% 100% \$5,073,928 \$5,073,928 52,823 \$16,499,264 7/1/1950 71% 100% \$4,769,937 \$4,769,937 | 4,000 \$1,29,340 ///1/303 50,80 100% \$5,073,928 \$5,073,928 48,160 \$15,042,776 7/1/1/303 66% 100% \$5,073,928 \$5,073,928 52,823 \$16,499,264 7/1/1/950 71% 100% \$4,769,937 \$4,769,937 | 4,000 \$1,29,340 //1/350 3000 100% \$5,073,928 \$5,073,928 48,160 \$15,042,776 7/1/939 7/1/939 66% 100% \$5,073,928 \$5,073,928 52,823 \$16,499,264 7/1/1950 7/1% 100% \$4,769,937 \$4,769,937 | 4,000 \$1,29,340 ///1/350 30/8 100% \$5,073,928 \$5,073,928 48,160 \$15,042,776 7/1/1939 7/1/939 66% 100% \$5,073,928 \$5,073,928 52,823 \$16,499,264 7/1/1950 71% 100% \$4,769,937 \$4,769,937 | 4,000 \$1,249,400 ///1/360 ///1/350 ///1/350 //1/350 66% 100% \$5,073,928 \$5,073,928 951 AMY VAN DYKEN 48,160 \$15,042,776 //1/339 //1/13939 66% 100% \$5,073,928 \$5,073,928 951 AMY VAN DYKEN 52,823 \$16,499,264 //1/1950 //1/1950 //1% 100% \$4,769,937 \$4,769,937 451 ISOTOPE DR. | 4,000 \$1,29,340 ///1/393 00% \$5,073,928 \$5,073,928 951 AMY VAN DYKEN WAY 48,160 \$15,042,776 \$1/1/939 66% 100% \$5,073,928 \$5,073,928 951 AMY VAN DYKEN WAY 52,823 \$16,499,264 71/1/950 71% 100% \$4,769,937 \$4,769,937 937 IMVERSITY AVE |

1 of 1



VACANT FACILITY MANAGEMENT PLAN

| GENERAL INFORMATION | | | | | | | |
|---|---|--|--|--|--|--|--|
| 1) AGENCY / INSTITUTION: Colorado State University4) SUBMITTAL DATE: 7/14/20162) FACILITY NAME: Storage5) INITIAL DATE VACANT:3) FACILITY ADDRESS: 3315 LaPorte Ave, Fort Collins | | | | | | | |
| FACILITY SPECIFIC INFORMATION | | | | | | | |
| 6) REASON FOR UNOCCUPIED OR UNUSED? Derelict building 7) WHAT WAS THE FACILITY OCCUPANCY USE (Please Check | 14) TOTAL GROSS SQUARE FEET: 1,037 | | | | | | |
| Below): Office Retail Warehouse Classroom X Other (Explain) Old garage used for storage 8) FACILITY USE ALTERNATIVES (Please Check Below): | 15) FACILITY FOOTPRINT IN SQUARE FEET OR ACRES: 1,037 | | | | | | |
| Office 	Retail 	Warehouse 	Classroom Other (Explain) A) HAS A COST-BENEFIT ANALYSIS BEEN COMPLETED FOR | 16) NUMBER OF STORIES: 1 | | | | | | |
| VARIOUS POTENTIAL DEMOLITION, RENOVATION, SALE ALTERNATIVES AND RENTING AT MARKET RATE? | 17) UNUSED SQUARE FEET: 1,037 | | | | | | |
| No B) IF THE FACILITY IS TO BE DEMOLISHED, ARE THEIR PLANS TO USE THE RECYCLED MATERIALS IN OTHER ON-SITE CAPITAL CONSTRUCTION PROJECTS? No | 18) LOCATION OF UNUSED SQUARE FEET WITHIN THE FACILITY: | | | | | | |
| C) ARE THERE ANY OTHER AGENCY / INSTITUTION INCENTIVES OR COST-SHARING OPPORTUNITIES ASSOCIATED WITH THE POTENTIAL DEMOLITION OF THIS VACANT FACILITY? | All 19) YEAR BUILT: 1915 20) YEAR ACQUIRED: 1915 | | | | | | |
| 9) IS THE INTENDED USE IDENTIFIED IN THE FACILITIES MASTER PLAN? (PLEASE EXPLAIN) Site will be used to expand CSFS Tree Farm | 21) DESCRIBE TYPE OF CONSTRUCTION: Wood Frame/Wood Siding | | | | | | |
| 10) WHAT IS THE AGENCY / INSTITUTIONS PLAN FOR THIS VACANT FACILITY IF FUNDING IS NOT AVAILABLE IN THE NEXT 5 YEARS? Leave as is | 22) AGENCY IDENTIFICATION NUMBER: 1083 | | | | | | |
| 11) ESTIMATED MARKET VALUE: \$0 12) HOW WAS A VALUE DETERMINED (Please Check Below): □ Appraisal ·□ Broker Opinion of Value □ County Assessor □ Risk Management Insured Value X□ Other | | | | | | | |
| 13) DOES THE FACILITY HAVE FEDERAL OR STATE HISTORICAL DESIGNATION: Yes X No | | | | | | | |

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| SITE SPECIFIC INFORMATION | RISK MGMT INFORMATION | | | | | | |
|--|--|--|--|--|--|--|--|
| 23) FACILITY PART OF A LARGER COMPLEX: X Yes No | 29) RISK MANAGEMENT NUMBER: 3555 | | | | | | |
| 24) IF YES, DESCRIBE NUMBER OF BUILDINGS AND INDICATE ACREAGE:27 Building on 140 acres | 30) RISK MANAGEMENT INSURED VALUE: \$117,523 | | | | | | |
| 25) CAN THIS FACILITY AND ASSOCIATED ACREAGE BE PARCELED OUT? Yes X No (if Yes, please indicate how) | | | | | | | |
| A) IS THERE POTENTIAL TO SELL THE UNDERLYING LAND IF THE VACANT FACILITY WAS DEMOLISHED? (Please Explain) No | | | | | | | |
| | | | | | | | |
| 26) SERVED BY CENTRAL UTILITY SYSTEM: Yes X No | | | | | | | |
| 27) DOES THE FACILITY HAVE IT'S OWN DEDICATED INGRESS AND EGRESS FOR VEHICLES (not driving through a campus): | | | | | | | |
| 28) IS PARKING INCLUDED: Yes X No | | | | | | | |
| CURRENT FACILITY CONDITION | | | | | | | |
| 31) HAVE ANY CONDITION AUDITS BEEN DONE ON THE FACILITY? (If yes provide date of audit and Facility Condition Index) ☐ Yes X☐ No | 32) DATE OF AUDIT: | | | | | | |
| 34) DESCRIBE ANY LIFE SAFETY CONDITIONS AND OR HAZARDOUS MATERIALS? Dilapidated condition | 33) FCI#: | | | | | | |
| A) IF APPLICABLE, WHAT ARE THE COSTS ASSOCIATED WITH ASBESTOS ABATEMENT AND HAZARDOUS MATERIALS REMOVAL? | | | | | | | |
| 35) CURRENT ANNUAL COST TO MAINTAIN FACILITY IN ITS CURREN Breakdown) | T CONDITION? (Provide Detailed | | | | | | |
| \$0 | | | | | | | |
| | | | | | | | |

VACANT FACILITY MANAGEMENT PLAN

GENERAL INFORMATION 1) AGENCY / INSTITUTION: Colorado State University 4) SUBMITTAL DATE: 7/14/2016 5) INITIAL DATE VACANT: 2) FACILITY NAME: Solar House 3 3) FACILITY ADDRESS: 3925 LaPorte Ave, Fort Collins FACILITY SPECIFIC INFORMATION 6) REASON FOR UNOCCUPIED OR UNUSED? 14) TOTAL GROSS SQUARE FEET: 3630 **Derelict** building **15) FACILITY FOOTPRINT IN** 7) WHAT WAS THE FACILITY OCCUPANCY USE (Please Check SQUARE FEET OR ACRES: Below): Office Retail Warehouse Classroom 1923 X Other (Explain) Solar Research and office 8) FACILITY USE ALTERNATIVES (Please Check Below): 16) NUMBER OF STORIES: X Office Retail Warehouse Classroom Other (Explain) 2 A) HAS A COST-BENEFIT ANALYSIS BEEN COMPLETED FOR 17) UNUSED SQUARE FEET: VARIOUS POTENTIAL DEMOLITION, RENOVATION, SALE ALTERNATIVES AND RENTING AT MARKET RATE? 3630 No **18) LOCATION OF UNUSED** SQUARE FEET WITHIN THE B) IF THE FACILITY IS TO BE DEMOLISHED, ARE THEIR PLANS FACILITY: TO USE THE RECYCLED MATERIALS IN OTHER ON-SITE all CAPITAL CONSTRUCTION PROJECTS? No 19) YEAR BUILT: 1975 C) ARE THERE ANY OTHER AGENCY / INSTITUTION INCENTIVES OR COST-SHARING OPPORTUNITIES 20) YEAR ACQUIRED: ASSOCIATED WITH THE POTENTIAL DEMOLITION OF THIS VACANT FACILITY? 1975 No 21) DESCRIBE TYPE OF CONSTRUCTION: 9) IS THE INTENDED USE IDENTIFIED IN THE FACILITIES MASTER PLAN? (PLEASE EXPLAIN) Wood frame/wood siding Site would be used to expand the research in Atmospheric Science 10) WHAT IS THE AGENCY / INSTITUTIONS PLAN FOR THIS 22) AGENCY IDENTIFICATION VACANT FACILITY IF FUNDING IS NOT AVAILABLE IN THE NEXT 5 NUMBER: YEARS? 1124 Leave as is 11) ESTIMATED MARKET VALUE: \$0 12) HOW WAS A VALUE DETERMINED (Please Check Below): Appraisal Deroker Opinion of Value County Assessor Risk Management Insured Value X Other 13) DOES THE FACILITY HAVE FEDERAL OR STATE HISTORICAL DESIGNATION: Yes X No

| SITE SPECIFIC INFORMATION | RISK MGMT INFORMATION |
|--|--|
| 23) FACILITY PART OF A LARGER COMPLEX: X Yes No | 29) RISK MANAGEMENT NUMBER: 3580 |
| 24) IF YES, DESCRIBE NUMBER OF BUILDINGS AND INDICATE ACREAGE:8 buildings on 10 acres | 30) RISK MANAGEMENT INSURED VALUE: \$1,133,830 |
| 25) CAN THIS FACILITY AND ASSOCIATED ACREAGE BE PARCELED OUT? ☐ Yes X☐ No (if Yes, please indicate how) | |
| A) IS THERE POTENTIAL TO SELL THE UNDERLYING LAND IF THE VACANT FACILITY WAS DEMOLISHED? (Please Explain) | |
| No | |
| 26) SERVED BY CENTRAL UTILITY SYSTEM: X Yes No | |
| 27) DOES THE FACILITY HAVE IT'S OWN DEDICATED INGRESS AND EGRESS FOR VEHICLES (not driving through a campus): ☐ Yes X☐ No | |
| 28) IS PARKING INCLUDED: X Yes No | |
| CURRENT FACILITY CONDITION | |
| 31) HAVE ANY CONDITION AUDITS BEEN DONE ON THE FACILITY? (If yes provide date of audit and Facility Condition Index) ☐ Yes X☐ No | 32) DATE OF AUDIT: |
| 34) DESCRIBE ANY LIFE SAFETY CONDITIONS AND OR HAZARDOUS MATERIALS? | 33) FCI#: |
| No | |
| A) IF APPLICABLE, WHAT ARE THE COSTS ASSOCIATED WITH AS HAZARDOUS MATERIALS REMOVAL? | SBESTOS ABATEMENT AND |
| 35) CURRENT ANNUAL COST TO MAINTAIN FACILITY IN ITS CURREN Breakdown) \$0 | T CONDITION? (Provide Detailed |

| GENERAL INFORMATION | |
|---|---|
| 1) AGENCY / INSTITUTION: Colorado State University 4) SUBM | ITTAL DATE: 7/14/2016 |
| 2) FACILITY NAME: Transshipping 5) INITIA | L DATE VACANT: 2010 |
| 3) FACILITY ADDRESS: 3185 Rampart Rd., Fort Collins | |
| FACILITY SPECIFIC INFORMATION | |
| 6) REASON FOR UNOCCUPIED OR UNUSED? | 14) TOTAL GROSS SQUARE FEET: |
| Not needed for research that it was intended for | 924 |
| 7) WHAT WAS THE FACILITY OCCUPANCY USE (Please Check Below): | 15) FACILITY FOOTPRINT IN SQUARE FEET OR ACRES: |
| Office Retail X Warehouse Classroom Other (Explain) | 924 |
| 8) FACILITY USE ALTERNATIVES (Please Check Below): | 16) NUMBER OF STORIES: |
| Other (Explain) | 1 |
| A) HAS A COST-BENEFIT ANALYSIS BEEN COMPLETED FOR VARIOUS POTENTIAL DEMOLITION, RENOVATION, SALE | 17) UNUSED SQUARE FEET: |
| ALTERNATIVES AND RENTING AT MARKET RATE? | 924 |
| No B) IF THE FACILITY IS TO BE DEMOLISHED, ARE THEIR PLANS TO USE THE RECYCLED MATERIALS IN OTHER ON-SITE | 18) LOCATION OF UNUSED SQUARE FEET WITHIN THE FACILITY: |
| CAPITAL CONSTRUCTION PROJECTS? | At entrance to IDRC Facility |
| No | 19) YEAR BUILT: 2010 |
| C) ARE THERE ANY OTHER AGENCY / INSTITUTION INCENTIVES OR COST-SHARING OPPORTUNITIES ASSOCIATED WITH THE POTENTIAL DEMOLITION OF THIS | 20) YEAR ACQUIRED: |
| VACANT FACILITY? | 2010 |
| 9) IS THE INTENDED USE IDENTIFIED IN THE FACILITIES MASTER | 21) DESCRIBE TYPE OF CONSTRUCTION: |
| PLAN? (PLEASE EXPLAIN) No | Steel frame/block exterior |
| 10) WHAT IS THE AGENCY / INSTITUTIONS PLAN FOR THIS VACANT FACILITY IF FUNDING IS NOT AVAILABLE IN THE NEXT 5 YEARS? | 22) AGENCY IDENTIFICATION NUMBER: 1435 |
| To eventually use it | |
| 11) ESTIMATED MARKET VALUE: \$200,000 | |
| 12) HOW WAS A VALUE DETERMINED (Please Check Below): □ Appraisal □ Broker Opinion of Value □ County Assessor □ Risk Management Insured Value X□ Other | |
| 13) DOES THE FACILITY HAVE FEDERAL OR STATE HISTORICAL DESIGNATION: Yes X No | |

| SITE SPECIFIC INFORMATION | RISK MGMT INFORMATION |
|--|--|
| 23) FACILITY PART OF A LARGER COMPLEX: X Yes No | 29) RISK MANAGEMENT NUMBER: |
| 24) IF YES, DESCRIBE NUMBER OF BUILDINGS AND INDICATE ACREAGE:12 buildings on 20 acres | 30) RISK MANAGEMENT INSURED VALUE: \$247,392 |
| 25) CAN THIS FACILITY AND ASSOCIATED ACREAGE BE PARCELED OUT? Yes x No (if Yes, please indicate how) | |
| A) IS THERE POTENTIAL TO SELL THE UNDERLYING LAND IF THE VACANT FACILITY WAS DEMOLISHED? (Please Explain) No | |
| | |
| 26) SERVED BY CENTRAL UTILITY SYSTEM: X Yes No 27) DOES THE FACILITY HAVE IT'S OWN DEDICATED INGRESS AND EGRESS FOR VEHICLES (not driving through a campus): X Yes No | |
| 28) IS PARKING INCLUDED: Yes No | |
| CURRENT FACILITY CONDITION | |
| 31) HAVE ANY CONDITION AUDITS BEEN DONE ON THE FACILITY? (If yes provide date of audit and Facility Condition Index) ☐ Yes X☐ No | 32) DATE OF AUDIT: |
| 34) DESCRIBE ANY LIFE SAFETY CONDITIONS AND OR HAZARDOUS MATERIALS? None | 33) FCI#: |
| A) IF APPLICABLE, WHAT ARE THE COSTS ASSOCIATED WITH AS HAZARDOUS MATERIALS REMOVAL? | SBESTOS ABATEMENT AND |
| 35) CURRENT ANNUAL COST TO MAINTAIN FACILITY IN ITS CURREN Breakdown) | T CONDITION? (Provide Detailed |
| | |

VACANT FACILITY MANAGEMENT PLAN

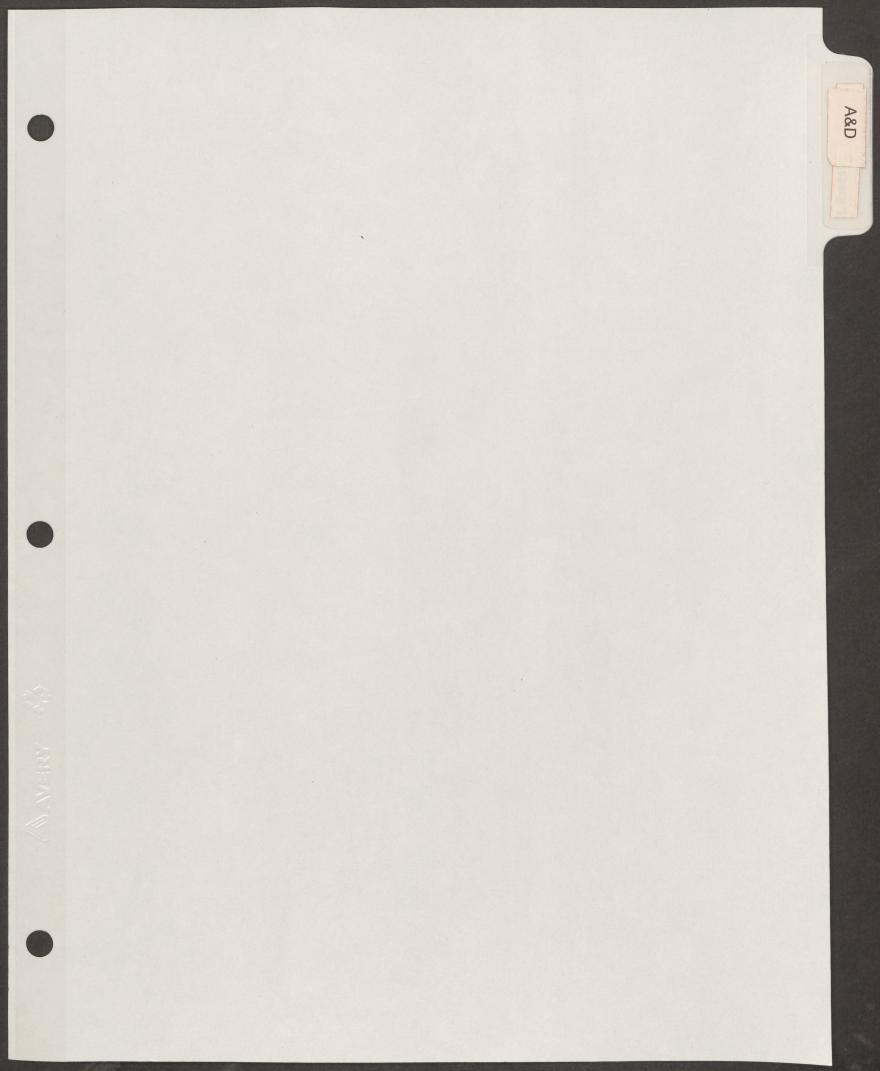
| GENERAL INFORMATION | | | | |
|---|--|--|--|--|
| | BMITTAL DATE: 7/14/2016 | | | |
| 2) FACILITY NAME: Guard House 5) INITIAL DATE VACANT: 2011 | | | | |
| 3) FACILITY ADDRESS: 3185 Rampart Rd, Fort Collins | | | | |
| FACILITY SPECIFIC INFORMATION | | | | |
| 6) REASON FOR UNOCCUPIED OR UNUSED? Not needed | 14) TOTAL GROSS SQUARE FEET: 332 | | | |
| 7) WHAT WAS THE FACILITY OCCUPANCY USE (Please Check Below): Office Retail Warehouse Classroom | 15) FACILITY FOOTPRINT IN SQUARE FEET OR ACRES: | | | |
| X Other (Explain) Guard house | 332 | | | |
| 8) FACILITY USE ALTERNATIVES (Please Check Below): | 16) NUMBER OF STORIES: | | | |
| X Other (Explain) Guard House | 1 | | | |
| A) HAS A COST-BENEFIT ANALYSIS BEEN COMPLETED FOR VARIOUS POTENTIAL DEMOLITION, RENOVATION, SALE | 17) UNUSED SQUARE FEET: | | | |
| ALTERNATIVES AND RENTING AT MARKET RATE? | 332 | | | |
| No B) IF THE FACILITY IS TO BE DEMOLISHED, ARE THEIR PLANS TO USE THE RECYCLED MATERIALS IN OTHER ON-SITE CAPITAL CONSTRUCTION PROJECTS? | S 18) LOCATION OF UNUSED SQUARE FEET WITHIN THE FACILITY: all | | | |
| No C) ARE THERE ANY OTHER AGENCY / INSTITUTION | 19) YEAR BUILT: 2011 | | | |
| INCENTIVES OR COST-SHARING OPPORTUNITIES ASSOCIATED WITH THE POTENTIAL DEMOLITION OF THIS VACANT FACILITY? | | | | |
| No | 2011 | | | |
| 9) IS THE INTENDED USE IDENTIFIED IN THE FACILITIES MASTER | 21) DESCRIBE TYPE OF CONSTRUCTION: | | | |
| PLAN? (PLEASE EXPLAIN) If site is deemed to need extra security, then building can be activated | Steel frame with block walls | | | |
| 10) WHAT IS THE AGENCY / INSTITUTIONS PLAN FOR THIS VACANT FACILITY IF FUNDING IS NOT AVAILABLE IN THE NEXT 5 YEARS? | 22) AGENCY IDENTIFICATION NUMBER: 1436 | | | |
| Keep as is | | | | |
| 11) ESTIMATED MARKET VALUE: \$80,000 | | | | |
| 12) HOW WAS A VALUE DETERMINED (Please Check Below): □ Appraisal □ Broker Opinion of Value □ County Assessor □ Risk Management Insured Value X□ Other | | | | |
| 13) DOES THE FACILITY HAVE FEDERAL OR STATE HISTORICAL DESIGNATION: Yes X No | | | | |

5/2016 OSA-REP/VF-1

| SITE SPECIFIC INFORMATION | RISK MGMT INFORMATION |
|--|---|
| 23) FACILITY PART OF A LARGER COMPLEX: X Yes No | 29) RISK MANAGEMENT NUMBER: |
| 24) IF YES, DESCRIBE NUMBER OF BUILDINGS AND INDICATE ACREAGE:12 buildings on 20 acres | 30) RISK MANAGEMENT INSURED VALUE: \$88,890 |
| 25) CAN THIS FACILITY AND ASSOCIATED ACREAGE BE PARCELED OUT? Yes X No (if Yes, please indicate how) | 400,000 |
| A) IS THERE POTENTIAL TO SELL THE UNDERLYING LAND IF THE VACANT FACILITY WAS DEMOLISHED? (Please Explain) No | |
| 26) SERVED BY CENTRAL UTILITY SYSTEM: X Yes No | |
| 27) DOES THE FACILITY HAVE IT'S OWN DEDICATED INGRESS AND EGRESS FOR VEHICLES (not driving through a campus): X Yes | |
| 28) IS PARKING INCLUDED: X Yes No | |
| CURRENT FACILITY CONDITION | |
| 31) HAVE ANY CONDITION AUDITS BEEN DONE ON THE FACILITY? (If yes provide date of audit and Facility Condition Index) ☐ Yes X☐ No | 32) DATE OF AUDIT: |
| 34) DESCRIBE ANY LIFE SAFETY CONDITIONS AND OR HAZARDOUS MATERIALS? None | 33) FCI#: |
| A) IF APPLICABLE, WHAT ARE THE COSTS ASSOCIATED WITH AS HAZARDOUS MATERIALS REMOVAL? | SBESTOS ABATEMENT AND |
| 35) CURRENT ANNUAL COST TO MAINTAIN FACILITY IN ITS CURREN Breakdown) | T CONDITION? (Provide Detailed |
| | |

| GENERAL INFORMATION | | | | |
|---|---|--|--|--|
| 1) AGENCY / INSTITUTION: Colorado State University 4) SUBMITTAL DATE: 7/14/2016 2) FACILITY NAME: Cattle Barn 5) INITIAL DATE VACANT: 3) FACILITY ADDRESS:3545 E. Drake Rd., Fort Collins | | | | |
| FACILITY SPECIFIC INFORMATION | | | | |
| 6) REASON FOR UNOCCUPIED OR UNUSED? | 14) TOTAL GROSS SQUARE FEET: | | | |
| Abandoned historic farm site | 1742 | | | |
| 7) WHAT WAS THE FACILITY OCCUPANCY USE (Please Check Below): ☐ Office ☐ Retail ☐ Warehouse ☐ Classroom X☐ Other (Explain) Barn | 15) FACILITY FOOTPRINT IN SQUARE FEET OR ACRES: 1742 | | | |
| 8) FACILITY USE ALTERNATIVES (Please Check Below): ☐ Office ☐ Retail ☐ Warehouse ☐ Classroom X ☐ Other (Explain) None | 16) NUMBER OF STORIES: | | | |
| A) HAS A COST-BENEFIT ANALYSIS BEEN COMPLETED FOR VARIOUS POTENTIAL DEMOLITION, RENOVATION, SALE ALTERNATIVES AND RENTING AT MARKET RATE? | 17) UNUSED SQUARE FEET: 1742 | | | |
| No B) IF THE FACILITY IS TO BE DEMOLISHED, ARE THEIR PLANS TO USE THE RECYCLED MATERIALS IN OTHER ON-SITE CAPITAL CONSTRUCTION PROJECTS? | 18) LOCATION OF UNUSED SQUARE FEET WITHIN THE FACILITY: all | | | |
| C) ARE THERE ANY OTHER AGENCY / INSTITUTION INCENTIVES OR COST-SHARING OPPORTUNITIES ASSOCIATED WITH THE POTENTIAL DEMOLITION OF THIS VACANT FACILITY? | 19) YEAR BUILT: 1930 20) YEAR ACQUIRED: 1988 | | | |
| 9) IS THE INTENDED USE IDENTIFIED IN THE FACILITIES MASTER PLAN? (PLEASE EXPLAIN) No | 21) DESCRIBE TYPE OF CONSTRUCTION: Wood frame/ wood siding | | | |
| 10) WHAT IS THE AGENCY / INSTITUTIONS PLAN FOR THIS VACANT FACILITY IF FUNDING IS NOT AVAILABLE IN THE NEXT 5 YEARS? | 22) AGENCY IDENTIFICATION NUMBER: 2423 | | | |
| Keep as is | | | | |
| 11) ESTIMATED MARKET VALUE: \$0 | | | | |
| HOW WAS A VALUE DETERMINED (Please Check Below): □ Appraisal □ Broker Opinion of Value □ County Assessor □ Risk Management Insured Value X□ Other | | | | |
| 13) DOES THE FACILITY HAVE FEDERAL OR STATE HISTORICAL DESIGNATION: Yes X No | | | | |

| SITE SPECIFIC INFORMATION | RISK MGMT INFORMATION |
|--|---------------------------------------|
| 23) FACILITY PART OF A LARGER COMPLEX: | 29) RISK MANAGEMENT NUMBER: 8005 |
| 24) IF YES, DESCRIBE NUMBER OF BUILDINGS AND INDICATE ACREAGE: 14 building on 175 acres Environmental Learning Center | 30) RISK MANAGEMENT INSURED VALUE: |
| 25) CAN THIS FACILITY AND ASSOCIATED ACREAGE BE PARCELED OUT? Yes X No (if Yes, please indicate how) | \$197,421 |
| A) IS THERE POTENTIAL TO SELL THE UNDERLYING LAND IF THE VACANT FACILITY WAS DEMOLISHED? (Please Explain) | |
| No | |
| 26) SERVED BY CENTRAL UTILITY SYSTEM: Yes X No | |
| 27) DOES THE FACILITY HAVE IT'S OWN DEDICATED INGRESS AND EGRESS FOR VEHICLES (not driving through a campus): ☐ Yes X☐ No | |
| 28) IS PARKING INCLUDED: Yes X No | |
| CURRENT FACILITY CONDITION | |
| 31) HAVE ANY CONDITION AUDITS BEEN DONE ON THE FACILITY? (If yes provide date of audit and Facility Condition Index) ☐ Yes X☐ No | 32) DATE OF AUDIT: |
| 34) DESCRIBE ANY LIFE SAFETY CONDITIONS AND OR HAZARDOUS MATERIALS? None | 33) FCI#: |
| A) IF APPLICABLE, WHAT ARE THE COSTS ASSOCIATED WITH AS HAZARDOUS MATERIALS REMOVAL? | SBESTOS ABATEMENT AND |
| 35) CURRENT ANNUAL COST TO MAINTAIN FACILITY IN ITS CURREN Breakdown) | T CONDITION? (Provide Detailed |
| \$0 | |



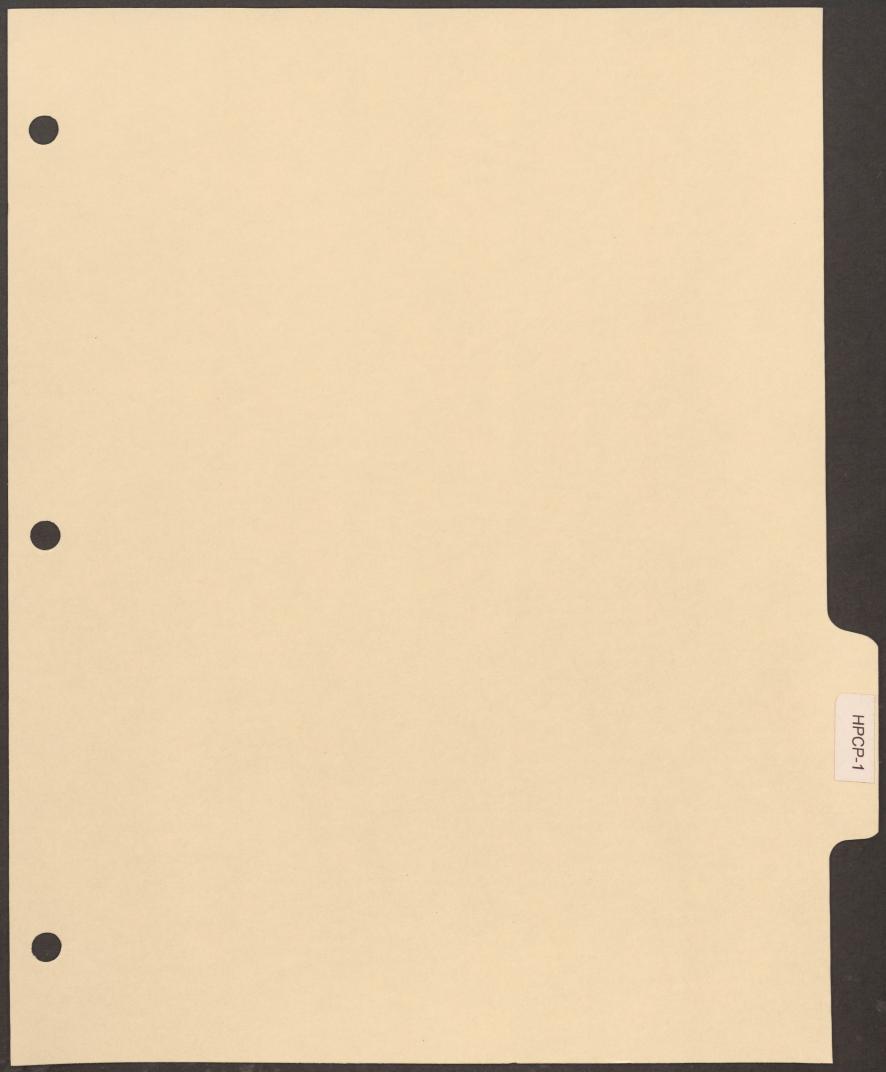
STATE OF COLORADO OFFICE OF THE STATE ARCHITECT ACQUISITION OR DISPOSITION REAL ESTATE PROGRAMS

ACQUISITION AND DISPOSITION OF STATE PROPERTY REPORT

1

| GENERAL INFORMATION | | | | | |
|--|---|--|--|--|--|
| 1) AGENCY / INSTITUTION: Colorado State University 4) SUBMITTAL DATE: 7/14/2016 | | | | | |
| 2) FACILITY NAME: Magnolia House | 5) TRANSACTION DATE: 11/20/2015 | | | | |
| 3) PROPERTY ADDRESS 218 Magnolia St. | 6) WAS THE TRANSACTION AN X Acquisition OR Disposition | | | | |
| TRANSACTION SPECIFIC INFORMATION | | | | | |
| 7) PROPERTY USE (Please Check Below): | 17) TOTAL PARCEL SIZE (Acres): .19 | | | | |
| 8) TRANSACTION AMOUNT (Amount Property Sold for): \$1,500,000 | 18) TOTAL BUILDING SIZE (Square Feet): | | | | |
| 9) WAS A APPRAISAL CONDUCTED ON THE PROPERTY: X Yes No | 9,056 19) YEAR BUILT: | | | | |
| 10) IF YES, WHAT WAS THE VALUE: \$2,610,000 | 2000 | | | | |
| 11) IF YES, WHEN WAS IT DATED: 10/10/2014 | 20) AGENCY IDENTIFICATION NUMBER: 0921 | | | | |
| 12) WAS AN EPA PHASE I ENVIRONMENTAL SURVEY DONE ON THE PROPERTY: X Yes No | 21) WAS DPA RISK MANAGEMENT OR INSTITUTION OF HIGHER EDUCATION | | | | |
| 13) IF YES, WHEN WAS IT DATED: 11/25/2014 | RISK MANAGEMENT INFORMED OF THIS TRANSACTION? | | | | |
| 14) IF YES, WAS ANY REMEDIATION REQUIRED TO BE COMPLETED (Explain and indicate if completed): Indoor radon screening if used as residence. No not residence | X Yes No | | | | |
| | 22) RISK MANAGEMENT IDENTIFICATION NUMBER: | | | | |
| 15) WAS AN ALTA SURVEY DONE ON THE PROPERTY: ☐ Yes X☐ No | 23) RISK MANAGEMENT INSURED VALUE: | | | | |
| 16) DOES THE FACILITY HAVE FEDERAL OR STATE HISTORICAL DESIGNATION: Yes X No | \$2,999,981 | | | | |
| PROPERTY / FACILITY SPECIFIC INFORMATION | | | | | |
| 24) HAS THE FACILITIES MASTER PLAN BEEN UPDATED IN | N REGARD TO THIS TRANSACTION? | | | | |
| 25) DATE OF UPDATED FACILITIES MASTER PLAN: | | | | | |
| 26) WHAT RECOMMENDATIONS DID THE FACILITIES MASTER PLAN HAVE IN REGARD TO THIS TRANSACTION? | | | | | |
| None 27) FACILITY PART OF A LARGER CAMPUS: Yes X No | | | | | |
| 28) SERVED BY CENTRAL UTILITY SYSTEM: Yes X No | | | | | |
| 29) DOES THE FACILITY HAVE IT'S OWN DEDICATED INGRESS AND EGRESS FOR VEHICLES (not driving through a campus): X□ Yes □ No | | | | | |
| 30) IS PARKING INCLUDED: X Yes No | | | | | |
| 31) ANY LIFE-SAFETY CONDITIONS OR HAZARDOUS MATH please list) | ERIALS PRESENT? Yes X No (If yes | | | | |
| 32) ATTACH COPY OF PURCHASE OR SALE, IMPROVEMENTS AND DEED. | | | | | |

3/2016 OSA-REP A/D-1





STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2017/2018 ENERGY MANAGEMENT PROGRAM

ANNUAL HIGH PERFORMANCE CERTIFICATION PROGRAM (HPCP) FORM

(Please fill out one form for every project where your agency /institution has pursued LEED registration/certification whether or not certification was required by statute, and include all forms with your controlled maintenance submittal) <u>A) PROJECT INFORMATION</u>

| 1) Agency/Institution: | Colorado State University Fort Collins | | | | |
|---------------------------------|--|----|----------------------|------|----------|
| 2) Project Number / Name: | / Avenir Museum Addition | | | | |
| 3) Building Type/ Size/ Budget: | Museum | / | 10,000 gsf | 1 | \$6.5M |
| 4) Date Design Commenced: | Aug 2014 | | 5) Date Register | red: | Aug 2014 |
| 6) Date Project Completed: | March 2015 | 7) | Date Project Certifi | ied: | Aug 2015 |

B) GENERAL QUESTIONS:

| Statuto 24 | son for your agency/institution pursuing LEED certification for this project? Voluntary Student/ fee Other requirement (explain) |
|--|--|
| 9) What level of certi Level Silver | fication is being pursuing or was achieved and the number of projected or achieved points? Number of Points 50 |
| | er statute 24-30-1305 (9) (b), what are the initial design and construction costs to be recouped perational costs over fifteen years? |
| NA-CSU pursues co | ertification as a matter of university sustainability policy. |
| 11) What methodolog | gy was utilized to analysis the fifteen year payback and decided the LEED points to consider? |
| LEED Energy Mo | deling Other (explain) NA-see above |
| 12) How is your ager use)? LEED-EBOM | Building Monitoring & Verification Continuous Rating |
| Other (explain) | Energy Cap data tracking |
| owned/operated by link to EPA Energy | uilding compare in utility/operation performance to typical non LEED certified buildings y the agency/institution? Per SB13-028, submit building performance information or provide a /Star Portfolio Manager. any other non certified museum spaces to compare to. |
| 14) What are/were th | e pros and cons of LEED certification on this project? |
| improved occupant s | par for building envelope and system performance, resulting in reduced energy use and atisfaction. CSU students expect new buildings to be sustainable. Cons-the MEP systems use maintenance staff need additional training to maintain correctly. |
| | point's checklist and any premium cost information been submitted to OSA after the |

certification from USGBC? If not, submit information with the annual OSA controlled maintenance documents. Submitted with FY 17-18 CMBR.

STATE OF COLORADO OFFICE OF THE STATE ARCHITECT CONTROLLED MAINTENANCE REQUEST SUMMARY FY 2017/2018 ENERGY MANAGEMENT PROGRAM

ANNUAL HIGH PERFORMANCE CERTIFICATION PROGRAM (HPCP) FORM

(Please fill out one form for every project where your agency /institution has pursued LEED registration/certification whether or not certification was required by statute, and include all forms with your controlled maintenance submittal) <u>A) PROJECT INFORMATION</u>

| 1) Agency/Institution: | Colorado State University Fort Collins | | | | |
|---------------------------------|--|----|--------------------|-------|---------------|
| 2) Project Number / Name: | / University Art Museum Addition | | | | |
| 3) Building Type/ Size/ Budget: | Museum | 1 | 6,000 gsf | 1 | \$3.44M |
| 4) Date Design Commenced: | | | 5) Date Registe | ered: | Green Globes |
| 6) Date Project Completed: | Sept 2015 | 7) | Date Project Certi | fied: | March 8, 2016 |

B) GENERAL QUESTIONS:

| X Statute 24- 30-1305 | Voluntary | Student/ fee requirement | Other (explain) |
|------------------------------------|-------------------------------------|---|--|
| 9) What level of ce | rtification is be | ing pursuing or was | s achieved and the number of projected or achieved points? |
| _evel 1 Green Globe | Numb | er of Points 355 | 5/746 |
| | | -30-1305 (9) (b), wi sts over fifteen year | what are the initial design and construction costs to be recouped ars? |
| NA—CSU pursues | s certification a | s a matter of univer | ersity sustainability policy. |
| 11) What methodo | logy was utilize | ed to analysis the fi | ifteen year payback and decided the LEED points to consider? |
| LEED Energy N | Nodeling | Other (explain) | NA see above |
| LEED-EBOM Other (explain) | | Monitoring & Verifi | fication Continuous Energy Star Commissioning Rating |
| owned/operated link to EPA Ener | l by the agency rgyStar Portfoli | /institution? Per SE | ion performance to typical non LEED certified buildings B13-028, submit building performance information or provide a |
| | | | fication on this project? |
| improved occupan | t satisfaction. | CSU students expe | ystem performance, resulting in reduced energy use and ect new buildings to be sustainable. Cons-the MEP systems us onal training to maintain correctly. |
| 5) Has the final I F | ED point's cho | eklist and any prem | nium cost information been submitted to OSA after the |

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