



**Capital
Development
Board**
Building a Better Illinois

ILLINOIS CAPITAL DEVELOPMENT BOARD BOARD BOOK

Chicago
Collinsville
Springfield

JB PRITZKER, GOVERNOR

**JIM UNDERWOOD,
EXECUTIVE DIRECTOR**

BOARD MEMBERS

Eileen Rhodes, Chair
Pam McDonough, Vice Chair
Tamakia J. Edwards
Saul Morse
Beverly Potts
Glyn Ramage
Hipolito (Paul) Roldan



CAPITAL DEVELOPMENT BOARD

February 13, 2024

The meeting of the Capital Development Board is being held in

Chicago, 555 W. Monroe Street

Springfield, Wm. G. Stratton Building, 401 S. Spring, 3rd Floor

Collinsville, IL Dept of Transportation, 1102 East Port Plaza

Or via WebEx

LOGIN: <https://illinois.webex.com/>

Call: 312-535-8110 ACCESS CODE: 2634 149 5591 PASSWORD: CDBFeb24

Public questions for the Board can be submitted through WebEx at the time for Public Comment or submitted by email to Sally.Finney@illinois.gov

Staff Contact: Heather Parks 217-782-8729 or Sally Finney 217-782-8726

Call To Order

1. Roll Call of Members
2. Confirmation of a Quorum

Preliminary Items

3. Approval of the Agenda	
4. Approval of December 12, 2023, Minutes	1-6
5. Approval of December 12, 2023, Executive Minutes	7
6. Illinois Energy Conservation Code Rules (71 IAC 600)	8-65
7. Public Comment for Illinois Energy Conservation Code Rules	
8. Community Health Center Rulemaking 71 Ill. Adm. Code 42	66-79

Region 1

9. Modification – IDOT – Dixon West Yard and Section Facility D2.....	80-84
10. Single Bid – IDOT – New Lenox Maintenance Yard	85-88
11. Change Order – ICCB – College of Lake County	89-92
12. Modification – UIC – Computer Design Research and Learning Center..	93-96
13. Modification – UIC – Computer Design Research and learning Center...	97-98

Region 2

14. Single Bid – IDOC – Logan Correctional Center.....	99-102
15. Modification – BHE – Western Illinois University	103-105

Region 3

16. Single Bid – DNR – Lewis & Clark Historic Site.....	106-110
17. Architecture/Engineering Selections Recommendation from PSB 306111-112	
18. Design Build	113-114

Informational Items

19. Change Order for Board Authorized Proceed Order.....	115-116
20. Emergency Project Proceed Order/Change Order Report	117
21. Best Interest of the State/Informational Item.....	118-124
22. Emergency Selection/Informational Item	125-128
23. Small Contract Selection/Informational Item.....	129-130
24. Construction Update	
25. Public Comment	

Executive Session

26. Pending and Probable Litigation (5 ILCS 120/2(c)(11))	
---	--

Capital Development Board ---

Subject: Meeting minutes for December 12, 2023

The meeting of the Capital Development Board was held in person in Chicago, Collinsville, and Springfield.

The following Board members were present in Chicago:

Eileen Rhodes, Chair
Paul Roldan

Pam McDonough, Vice Chair
Tamakia Edwards

The following Board member was present in Collinsville:

Glyn Ramage

The following Board members were present in Springfield:

Beverly Potts

Saul Morse

The following were present in Chicago:

Amy Romano, CDB
Brent Lance, CDB
Jim Underwood, CDB
Karla Springer, CDB
Lisa Hennigh, CDB
Sally Finney, CDB

Blanca Rivera, CDB
Darnita Lee, CDB
Jesse Martinez, CDB
Latoya Watson, CDB
Mark Jones, CDB
Tim Patrick, CDB

The following were present in Springfield:

Chris MacGibbon, CDB
David Ealey, CDB
Joel Meints, CDB
Paul Kmett, CDB
James Cockrell

Craig Butler, CDB
Heather Parks, CDB
Marcy Joerger, CDB
Pat Randle, CDB

The following were present via WebEx:

Amber Dooley, CDB
Charla Travis, CDB
Heather Oxley, CDB
Jill Bohm, CDB
Katrina Grzegorski, CDB-CIO
Kenneth Watkins, CDB
Lauren Grenlund, CDB

Amber Evans, CDB
Drew Stephenson, CDB
Jamie Booker, CDB
Kathryn Martin, CDB
Ken Morris, CPO
Kyle Beachy, CDB
Lauren Noll, CDB

Linda Norbut Suits, CDB	Luke Montgomery, CDB
Marcy Joerger, CDB	Maribel Acevedo, CDB
Matt McHenry, CDB	Matthew Trewartha, CDB
Medeny Guy, CDB	Michael McGuire, CDB
Natasia McDade, CDB	Nicole Scott, CDB
Paula Sorensen, CDB	Lance Livermore, TKB
Aaron Spiering, JGMA	Alicia Kamischke, Prairie Engineering
Architechnics	Anthony LoBello, Woolpert
C Kleine, F-W	Tami Wright, Dewberry
Jacob Carlile, Carlile	Kat Porter, Delta Engineering
Kyle Eliakis, Carlile	Linda Arnold, RTMEC
Noula Frigelis, David Mason	Richard Weitzel, DEG
Stephen Wisniewski, GEC	Steve Ejnik, Valdes Engineering

The meeting was called to order at 11:00 a.m.

Sally Finney took roll call. Chair Rhodes, Pam McDonough, Tamakia Edwards, Saul Morse, Glyn Ramage, and Paul Roldan were present.

Pam McDonough moved, and Glyn Ramage seconded a motion to approve the agenda. Chair Rhodes called for a vote, and the motion was approved unanimously.

Saul Morse moved, and Pam McDonough seconded a motion to approve the minutes from November 14, 2023. Chair Rhodes called for a vote, and the motion was approved unanimously.

Ms. Romano, General Counsel, swore in new board member Tamakia Edwards. Chair Rhodes congratulated Ms. Edwards on joining the Capital Development Board.

Ms. Rivera presented the following Single Bid:

Single Bid – CMS – Chicago Medical Center Office & Medical Building
CDB Project No. 250-510-018
Secure Electrical Vaults
Drive Construction, Inc.
Single Bid.....\$754,000

Pam McDonough moved, and Paul Roldan seconded a motion to approve the Single Bid. Chair Rhodes called for a vote, and the motion was approved unanimously.

Mr. Rivera presented the following Modification:

Modification – DHS – Shapiro Developmental Center
CDB Project No. 321-100-131
Replace Heating and Cooling Return Systems

Knight E/A, Inc.
Modification..... \$459,400

Pam McDonough moved, and Tamakia Edwards seconded a motion to approve the Modification. Chair Rhodes called for a vote, and the motion was approved unanimously.

Mr. Ealey presented the following Modification:

Modification – CMS – Springfield Office Space
CDB Project No. 250-000-022 Phase 2
Renovate Building for Office Space
Moreno Architects Ltd.
Modification..... \$526,844

Pam McDonough moved, and Glyn Ramage seconded a motion to approve the Modification. Chair Rhodes called for a vote, and the motion was approved unanimously.

Mr. Ealey presented the following Proceed Orders:

Proceed Order – CMS – State Armory
CDB Project No. 250-042-006 Phase 1
Renovate the State Armory
William Brothers Construction Inc.
Proceed Order..... \$380,000.

Saul Morse moved, and Pam McDonough seconded a motion to approve the Proceed Order. Chair Rhodes called for a vote, and the motion was approved unanimously.

Proceed Order – CMS – State Armory
CDB Project No. 250-042-006 Phase 1
Renovate the State Armory
William Brothers Construction Inc.
Modification..... \$1,250,000

Saul Morse moved, and Tamakia Edwards seconded a motion to approve the Modification. Chair Rhodes called for a vote, and the motion was approved unanimously.

Mr. Patrick presented the following Proceed Order:

Proceed Order – DHS – Choate Mental Health and Development Center
CDB Project No. 321-015-098
Construct New Boiler Building and Upgrade Electrical System
Fager-McGee Commercial Construction Inc.

Proceed Order\$500,000

Pam McDonough moved, and Glyn Ramage seconded the motion to approve the Proceed Order. Chair Rhodes called for a vote, and the motion was approved unanimously.

Mr. Ealey presented the following Modification:

Modification – SOS – Capitol Complex

CDB Project No. 750-000-007

Replace Cooling Towers and Chillers

Introba, Inc.

Modification.....\$432,342

Saul Morse moved, and Tamakia Edwards seconded a motion to approve the Modification. Chair Rhodes called for a vote, and the motion was approved unanimously.

Mr. Lance presented the following A/E Selections from PSB 305:

1.	040-010-130	Department of Veterans' Affairs Replace Rooftop Building Air Conditioning Units – Nielson Dining Illinois Veterans' Home - Quincy 1. RTM Engineering Consultants, LLC 2. Introba Inc. 3. Architechnics, Inc.	Appropriation: \$2,483,700 Project Cost: \$2,483,700
2.	040-020-078	Department of Veterans' Affairs Relocate Central Kitchen Illinois Veterans' Home – Manteno 1. Carlile Architects LLC 2. Valdes Engineering Company 3. Fox & Fox Architects, LLC	Appropriation: \$5,067,300 Total Cost: \$5,067,300

Pam McDonough moved, and Tamakia Edwards seconded a motion to approve the A/E Selections from PSB 305. Chair Rhodes called for a vote, and the motion was approved unanimously.

Mr. Patrick presented the Single Bid Award and Change Order for Board Authorization Proceed Order.

Mr. Lance presented the Best Interest of the State/Informational Item.

Mr. Martinez gave an update on BEP.

Pam McDonough moved, and Saul Morse seconded a motion to move into Executive Session. Chair Rhodes called for a vote, and the motion was approved unanimously.

Regular Session reconvened at 12:23 p.m.

Mr. Kmett presented a Request for Authorization to Initiate Litigation, CDB Project No. 120-255-025, Roof Replacement at Shawnee Correctional.

Pam McDonough moved, and Tamakia Edwards seconded a motion to approve the Request for Authorization to Initiate Litigation at Shawnee Correctional. Chair Rhodes called for a vote, and the motion was approved unanimously.

After the Semi-Annual Review of the Closed Session Minutes (5 ILCS 120/2(c)(21)) in Executive Session, Ms. Romano, General Counsel, recommended the following Executive Session Minutes to be opened.

Executive Session Meeting Minutes Recommended to Be Opened:

23-1
23-4
23-5
23-6
23-7

Ms. Romano also recommended the following Executive Session Verbatim Recordings to Be Destroyed:

21-10
22-1
22-2

Tamakia Edwards moved, and Saul Morse seconded a motion to approve the recommendations of Ms. Romano. Chair Rhodes called for a vote, and the motion was approved unanimously.

Ms. Romano presented Personnel Action Resolution 23-04 Executive Director Salary (5 ILCS 120/2(c)(1)).

Paul Roldan moved, and Saul Morse seconded the motion to approve the Executive Directors Salary. Chair Rhodes called for a vote, and the motion was approved unanimously.

Pam McDonough moved and Tamika Edwards seconded a motion to adjourn. Chair Rhodes called for a vote, and the motion was approved unanimously.

The meeting was adjourned at 12:27 p.m.

**INTENTIONALLY
LEFT BLANK**

**EXECUTIVE
MINUTES**



2023 Illinois Stretch Energy Code

Energy Transition Act (formerly CEJA) of 2021

- Amends the Energy Efficient Building Act
- Directs CDB to deliver recommendations for a stretch code by 12/31/2023 (as amended)
- Site energy index targets from CEJA, *not counting reductions from renewable energy.*
 - Residential: 0.5 of 2006 IECC
 - Commercial: 0.6 of 2006 IECC
- Stretch code must undergo rulemaking and be available for adoption by 6/30/24 (as amended)



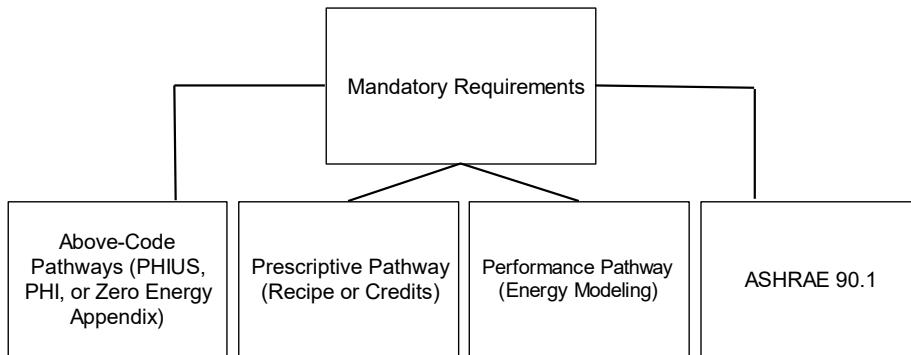
IECAC approved format and content.

Code	Commercial Stretch Energy Code	Residential Stretch Energy Code
Adopts by reference	2024 IECC-C, PCD2 with approved proposals from the CAR	2021 IECC-R, Second Version
Illinois-specific amendment topics	<ul style="list-style-type: none">• Above-code compliance pathways• ASHRAE 90.1 compliance option requirements and metrics• Energy storage ready• EV-readiness and accessibility• Horticultural lighting• Electric ready for R2 occupancies• Existing building requirements and incentives• Efficiency and renewable/demand management credit trade-offs• Orientation• Total Building Performance Pathway Appendix	<ul style="list-style-type: none">• Above-code compliance pathways• ERI pathway• Section R408 prescriptive pathway compliance options• Optional-to-localities All-Electric Appendix• EV-ready or EV charger installed• Electric ready• Solar ready• Demand response capable thermostats and water heaters• Existing building requirements

Codes for Climate

© New Buildings Institute
2021

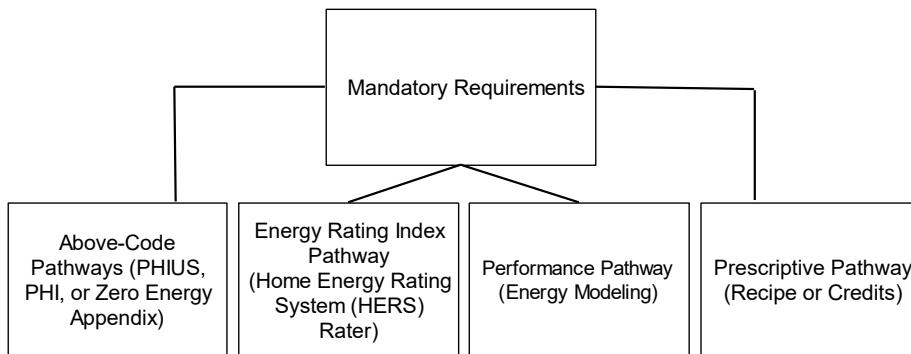
Commercial Compliance Pathways



Codes for Climate

© New Buildings Institute
2021

Residential Compliance Pathways



Codes for Climate

© New Buildings Institute
2021

TITLE 71: PUBLIC BUILDINGS, FACILITIES, AND REAL PROPERTY
CHAPTER I: CAPITAL DEVELOPMENT BOARD
SUBCHAPTER d: ENERGY CODES

PART 600

ILLINOIS ENERGY ~~CONSERVATION CODES~~

Commented [CR1]: Re-titling now that this Part includes 2 energy codes.

SUBPART A: GENERAL

Section	
600.100	Definitions
600.110	Adoption and Modification of the Code
600.120	Illinois Energy Conservation Advisory Council
600.125	Illinois Energy Conservation Advisory Council Meetings
600.130	Revisions to the Code

Commented [CR2]: New Section covering meeting procedures.

SUBPART B: STATE FUNDED FACILITIES

Section	
600.200	Illinois Commercial Stretch Energy Code Standards for State Funded Facilities
600.210	Exemptions
600.220	Compliance

Commented [CR3]: Revised requirements for State Funded Facilities. The IL Energy Conservation Code is no longer an option. IL Stretch Energy Code is a requirement for State Funded Facilities.

SUBPART C: PRIVATELY FUNDED COMMERCIAL FACILITIES

Section	
600.300	Illinois Energy Conservation Code Standards for Privately Funded Commercial Facilities
600.305	Illinois Commercial Stretch Energy Code
600.310	Exemptions
600.320	Local Jurisdiction
600.330	Compliance
600.340	Application to Home Rule Units

Commented [CR4]: Re-titling to show both Codes.

SUBPART D: RESIDENTIAL BUILDINGS

Section	
600.400	Illinois Energy Conservation Code Standards for Residential Buildings
600.405	Illinois Residential Stretch Energy Code
600.410	Exemptions
600.420	Local Jurisdiction
600.430	Compliance
600.440	Application to Home Rule Units

Commented [CR5]: Re-titling to show both Codes.

600.APPENDIX A [Illinois Energy Conservation Code Amendments to the Supplanted and Additional 2021 International Energy Conservation Code Sections](#)

600.APPENDIX B [Illinois Commercial Stretch Energy Code Amendments to the International Energy Conservation Code](#)

600.APPENDIX C [Illinois Residential Stretch Energy Code Amendments to the International Energy Conservation Code.](#)

Commented [CR6]: Appendix A is the IL Energy Conservation Code Amendments which go into effect 1/1/24.

Commented [CR7]: Appendices B&C are the Illinois Stretch Energy Code Amendments.

AUTHORITY: Implementing and authorized by the Capital Development Board Act [20 ILCS 3105] and the Energy Efficient Building Act [20 ILCS 3125].

SOURCE: Adopted by emergency rulemaking at 28 Ill. Reg. 11355, effective July 26, 2004, for a maximum of 150 days; emergency rules expired December 22, 2004; adopted at 29 Ill. Reg. 777, effective January 1, 2005; new Part adopted by emergency rulemaking at 29 Ill. Reg. 5736, effective April 8, 2005, for a maximum of 150 days; emergency expired September 4, 2005; emergency rulemaking repealed at 29 Ill. Reg. 6093, effective April 18, 2005, for a maximum of 150 days; emergency expired September 14, 2005; old Part repealed at 29 Ill. Reg. 16414 and new Part adopted at 29 Ill. Reg. 14790, effective April 8, 2006; amended at 31 Ill. Reg. 14422, effective October 9, 2007; emergency amendment at 33 Ill. Reg. 12407, effective August 18, 2009, for a maximum of 150 days; amended at 33 Ill. Reg. 16702, effective November 23, 2009; emergency rulemaking at 34 Ill. Reg. 2582, effective January 29, 2010, for a maximum of 150 days; emergency expired June 27, 2010; amended at 34 Ill. Reg. 11398, effective July 26, 2010; amended at 37 Ill. Reg. 789, effective January 11, 2013; amended at 37 Ill. Reg. 12822, effective July 23, 2013; amended at 40 Ill. Reg. 2754, effective January 20, 2016; amended at 43 Ill. Reg. 8707, effective August 5, 2019; amended at 47 Ill. Reg. 17974, effective November 27, 2023.

SUBPART A: GENERAL

Section 600.100 Definitions

Definitions of terms in the International Energy Conservation Code, incorporated by reference in Subpart C of this Part, apply, as do the following definitions:

“2024 INTERNATIONAL ENERGY CONSERVATION CODE FINAL DRAFT” means the draft version of the 2024 IECC which includes changes from Public Comment Draft #2 and approved proposals from the Committee Action Report.

Commented [CR8]: Clarifies the version of the reference code.

“Act” means the Capital Development Board Act [20 ILCS 3105].

“Authority Having Jurisdiction” or “AHJ” means the organization, office or individual responsible for approving equipment, materials, an installation or procedure.

“CDB” or “Board” means the Illinois Capital Development Board.

"Commercial Facility" means any building except a building that is a residential building as defined in the EEB Act. [20 ILCS 3125/10]

"Council" means the Illinois Energy Conservation Advisory Council appointed under Section 600.120 and whose purpose it is to recommend modifications to the Illinois Energy Conservation Code.

"EEB Act" means the Energy Efficient Building Act [20 ILCS 3125].

"IECC" means the International Energy Conservation Code.

"Illinois Energy Conservation Code" ~~or~~ *"Code"* means:

~~With respect to the State facilities covered by Subpart B:~~

~~This Part, all additional requirements incorporated within Subpart B (including the 2021 International Energy Conservation Code that encompasses ASHRAE 90.1, including all published errata but excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB;~~

Commented [CR9]: IL Energy Conservation Code will no longer be an option for State Funded Facilities.

With respect to the privately funded commercial facilities covered by Subpart C [Section 600.300](#):

This Part, all additional requirements incorporated within Subpart C (including the 2021 International Energy Conservation Code that encompasses ASHRAE 90.1, including all published errata but excluding published supplements, and any statutorily authorized adaptations to the incorporated standards adopted by CDB; and

With respect to the residential buildings covered by Subpart D [Section 600.400](#):

This Part, all additional requirements incorporated within Subpart D (including the 2021 International Energy Conservation Code, including all published errata but excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB.

"Illinois Commercial Stretch Energy Code" or *"Commercial Stretch Code"* means:

Commented [CR10]: New definition for the IL Commercial Stretch Energy Code. Note reference to 2024 IECC.

With respect to the State facilities covered by Subpart B and privately funded commercial facilities covered by Subpart C Section 600.305:

This Part, all additional requirements incorporated within Subparts B and C (including the 2024 International Energy Conservation Code Final Draft Commercial Provisions that encompasses ASHRAE 90.1, including all published errata but excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB;

"Illinois Residential Stretch Energy Code" or "Residential Stretch Code" means:

With respect to the residential buildings covered by Subpart D Section 600.405:

Commented [CR11]: New definition for the IL Residential Stretch Energy Code. Note reference to 2021 IECC.

This Part, all additional requirements incorporated with Subpart D (including the 2021 International Energy Conservation Code Residential Provisions, including all published errata but excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB.

"Municipality" means any city, village or incorporated town. [20 ILCS 3125/10]

"Residential Building" means a detached one-family or 2-family dwelling or any building that is 3 stories or less in height above grade that contains multiple dwelling units, in which the occupants reside on a primarily permanent basis, such as a townhouse, a row house, an apartment house, a convent, a monastery, a rectory, a fraternity or sorority house, a dormitory, and a rooming house; provided, however, that when applied to a building located within the boundaries of a municipality having a population of 1,000,000 or more, the term "residential building" means a building containing one or more dwelling units, not exceeding 4 stories above grade, where occupants are primarily permanent. [20 ILCS 3125/10]

*"State Funded Building" means and includes buildings under the jurisdiction of each officer, department, board, commission, institution and body politic and corporate of the State, including the Illinois Building Authority, and any other person expending or encumbering State or federal funds by virtue of an appropriation or other authorization by the General Assembly or federal authorization or grant. This includes State funded *housing, hospitals, penitentiaries, laboratories, educational facilities, administrative facilities,**

recreational facilities, environmental equipment and parking facilities [20 ILCS 3105/4.01].

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

Section 600.110 Adoption and Modification of the [Illinois Energy Conservation Code](#)

a) The purpose of the Illinois Energy Conservation Code is to implement Section 15 of the Energy Efficient Building Act [20 ILCS 3125] that requires CDB to officially adopt, as a minimum requirement for ~~State and~~ commercial structures and as a minimum and maximum requirement for residential buildings, the 2021 International Energy Conservation Code, including all published errata but excluding any published supplements, to apply that [Illinois Energy Conservation Code](#) to all commercial and residential structures in Illinois, and to assist local code officials with enforcing the requirements of the [Illinois Energy Conservation Code](#). The 2021 Illinois Energy Conservation Code will become effective on [January 1, 2024](#)~~adoption of this rulemaking~~.

b) [The purpose of the Illinois Stretch Energy Code is to implement Section 55 of the Energy Efficient Building Act \[20 ILCS 3125\] that requires CDB to officially adopt, as a minimum requirement for State facilities, commercial structures and residential buildings in municipalities that have adopted the Illinois Stretch Energy Code, an energy code that meets the site energy indexes as outlined in Section 55 of the Energy Efficient Building Act.](#)

Commented [CR12]: New purpose statement for the Stretch Code.

c) [This Code as described in Subpart B \(State facilities\) is effective July 26, 2004. The This Illinois Energy Conservation Code as described in Subpart C \(privately-funded commercial facilities\) is effective April 8, 2007. The Illinois Energy Conservation Code as described in Subpart D \(residential buildings\) is effective January 29, 2010. The Illinois Stretch Energy Code as described in Subparts B, C and D \(State facilities, privately-funded commercial facilities and residential buildings\) is effective upon adoption.](#)

Commented [CR13]: Stretch Code will take effect after Rule process. Anticipated by 7/1/24.

d) Application of the Code

1) State Facilities. The [Illinois Commercial Stretch Energy Code](#) as described in Subpart B of this Part applies to [all projects to which an energy conservation code is applicable that are authorized or funded in any part by the Board after July 1, 2024. \[20 ILCS 3125/55\]](#)~~all State facilities for which money has been appropriated or authorized by the General Assembly.~~

Commented [CR14]: Commercial Stretch Energy Code applies to all State Facilities per referenced statute.

2) Privately Funded Commercial Facilities and Residential Buildings. The [Illinois Energy Conservation Code](#) or the [Illinois Stretch Energy Code if adopted by the local municipality](#) as described in Subparts C and D of this Part applies to any new building or structure in this State for which a building permit application is received by a municipality or county. [20 ILCS 3125/20]

- A) *Additions, alterations, renovations or repairs to an existing building, building system or portion thereof shall conform to the provisions of the Code as they relate to new construction without requiring the unaltered portion of the existing building or building system to comply with the Code.* [20 ILCS 3125/20(c)]
- B) All exceptions listed in the Code related to additions, alterations, renovations or repairs to an existing building are acceptable provided the energy use of the building is not increased.

Commented [CR15]: The IL Energy Conservation Code applies to all Commercial and Residential buildings in the State unless the Stretch Code has been adopted by the local municipality, in which case, the Stretch Code replaces the IL Energy Conservation Code.

~~ed~~ This Code, together with the standards incorporated by reference in this Part, has the force of a building code and is administrative law applicable in the State of Illinois.

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

Section 600.120 Illinois Energy Conservation Advisory Council

- a) The Executive Director of the Capital Development Board shall appoint an Advisory Council. The Council shall be composed of the Executive Director or his or her authorized representative, who shall serve as Chairman ex-officio, and 16 additional members appointed by the Executive Director. The appointed members shall consist of 1 person representing the Illinois Environmental Protection Agency; 2 persons representing the residential construction contracting industry; 2 licensed architects; 1 licensed mechanical engineer; 1 licensed electrical engineer; 2 persons representing local code officials; and 2 persons representing the construction contracting industry; 1 representative from a group that represents environmental justice; 1 representative of a nonprofit or professional association advocating for the environment; 1 energy-efficiency advocate with technical expertise in single-family residential buildings; 1 energy-efficiency advocate with technical expertise in commercial buildings; and 1 energy-efficiency advocate with technical expertise in multifamily buildings, such as an affordable housing developer. Members of the Council shall be appointed for 4 year terms. The members appointed by the Executive Director shall serve for the term of their appointments [or until their successors are appointed](#) and may

Commented [CR16]: Clarifies participation of members pending reappointment.

be reappointed upon expiration of the term. Any member appointed to fill a vacancy occurring prior to the expiration of the term for which his or her predecessor was appointed shall be appointed for a full term.

- b) Nine members of the Council shall constitute a quorum. The Chairman shall only vote to break a tie or when necessary to establish a quorum.
- c) The purpose of the Council shall be to recommend modifications to the Illinois Energy Conservation Code [and the Illinois Stretch Energy Code](#).
- d) Members of the Council shall serve without compensation but shall be reimbursed for reasonable travel expenses necessarily incurred in the performance of their duties.

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

Section 600.125 Illinois Energy Conservation Advisory Council Meetings

- a) [Public comment will be allowed at the end of each meeting for a period not to exceed 30 minutes or at other times as designated by the Chair. Each person making a public comment will be given up to 3 minutes of uninterrupted time to speak.](#)
- b) [The Chair may impose other time restrictions as may be necessary to accommodate all persons wishing to make comment.](#)
- c) [Public comment is not permitted except at designated times unless requested by the Chair.](#)
- d) [Public comment that is deemed by the Chair to be disruptive to the meeting and prevents the Council from accomplishing its business in an efficient manner, will not be allowed.](#)
- e) [The council is not required to answer or respond to any public comment.](#)

Commented [CR17]: New language providing guidelines for public comment.

Section 600.130 Revisions to the Code

This Code may be revised by the Capital Development Board on its own volition or pursuant to recommendations of the Illinois Energy Conservation Advisory Council and in accordance with the Illinois Administrative Procedure Act [5 ILCS 100].

SUBPART B: STATE FUNDED FACILITIES

Section 600.200 [Illinois Commercial Stretch Code Standards for State Funded Facilities](#)

Commented [CR18]: Requires Commercial Stretch Code for State Funded Facilities.

- a) The 2024~~21~~ IECC [Final Draft](#), including published errata but excluding published supplements, available from the International Code Council at 200 Massachusetts Ave, NW Suite 250, Washington DC 20001, phone: 1-888-ICC-SAFE (422-7233), www.iccsafe.org, is hereby incorporated into the Illinois [Commercial Stretch](#) Energy [Conservation](#) Code, as described in this Subpart as applicable to State funded facilities, with the modifications outlined in subsection (c).
- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.
- c) Modifications to IECC
Under Section [5515](#) of the EEB Act, when applying the [Commercial Stretch](#) Code to State funded facilities, CDB may modify the incorporated standards to [meet the site energy index specified in the EEB Act, respond to the unique economy, population distribution, geography and climate of Illinois, as long as the objectives of the EEB Act are maintained](#). Modifications, additions or omissions to [the](#) IECC are specified in Appendix [B](#)~~A~~ and are rules of the CDB and are not requirements of the IECC.

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

Section 600.210 Exemptions

- a) *The following buildings are exempt from the Code:*
 - 1) *Buildings otherwise exempt from the provisions of a locally adopted building code and buildings that do not contain a conditioned space;*
 - 2) *Buildings that do not use either electricity or fossil fuel for comfort conditionings;*
 - 3) *Historic buildings listed on the National Register of Historic Places or the Illinois Register of Historic Places, and those buildings that are designated by authorized personnel as historically significant;*
 - 4) *Other buildings specified as exempt by the IECC.*
- b) *For purposes of determining whether an exemption authorized under subsection (a)(2) applies, a building will be presumed to be heated by electricity, even in the absence of equipment used for electric comfort heating, whenever the building is provided with electrical service in excess of 100 amps, unless the code*

enforcement official determines that this electrical service is necessary for purposes other than providing electric comfort heating. [20 ILCS 3125/20]

(Source: Amended at 43 Ill. Reg. 8707, effective August 5, 2019)

Section 600.220 Compliance

Compliance with the Illinois Commercial Stretch Energy Conservation Code for State facilities as described by this Subpart B shall be demonstrated by submission of one of the following:

- a) Buildings certified in compliance with Passive House Institute (PHI) or Passive House Institute U.S. (PHIUS) programs; the compliance forms published in the ASHRAE 90.1 User's Manual;
- b) Compliance Certificates generated by the U.S. Department of Energy's COMCheck code compliance tool; or
- be) the seal of the Architect/Engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

(Source: Amended at 43 Ill. Reg. 8707, effective August 5, 2019)

SUBPART C: PRIVATELY FUNDED COMMERCIAL FACILITIES

Section 600.300 Illinois Energy Conservation Code Standards for Privately Funded Commercial Facilities

- a) The 2021 IECC, including published errata but excluding published supplements, available from the International Code Council at 200 Massachusetts Ave, NW Suite 250, Washington DC 20001, phone: 1-888-ICC-SAFE (422-7233), www.iccsafe.org, is hereby incorporated into the Illinois Energy Conservation Code, as described in this Subpart as applicable to privately funded commercial facilities, with the modifications outlined in subsection (c).
- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.
- c) Modifications to IECC
Under Section 15 of the EEB Act, when applying the Code to privately funded commercial facilities, CDB may modify the incorporated standards to respond to

Commented [CR19]: New compliance option per statute and removal of options that do not have a Stretch Code capability.

the unique economy, population distribution, geography and climate of Illinois, as long as the objectives of the EEB Act are maintained. Modifications, additions or omissions to IECC are specified in Appendix A and are rules of the CDB and are not requirements of the IECC.

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

Section 600.305 Illinois Commercial Stretch Energy Code

Commented [CR20]: New Stretch Code requirements for Commercial Facilities.

- a) The 2024 IECC Final Draft, including published errata but excluding published supplements available from the International Code Council at 500 New Jersey Avenue NW, 6th Floor, Washington DC 20001, phone: 1-888-ICC-SAFE (422-7233), www.iccsafe.org, is hereby incorporated into the Illinois Commercial Stretch Energy Code, as described in this Subpart as applicable to privately funded commercial facilities, with the modifications outlined in subsection (c).
- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.
- c) Modifications to the IECC
Under Section 55 of the EEB Act, when applying the Code to privately funded commercial facilities, CDB shall modify the incorporated standards to meet the site energy index specified in the EEB Act. Modifications, additions or omissions to the IECC are specified in Appendix B and are rules of the CDB and are not requirements of the IECC.

Section 600.310 Exemptions

- a) The following buildings are exempt from the Code:
 - 1) *Buildings otherwise exempt from the provisions of a locally adopted building code and buildings that do not contain a conditioned space;*
 - 2) *Buildings that do not use either electricity or fossil fuel for comfort conditioning;*
 - 3) *Historic buildings listed on the National Register of Historic Places or the Illinois Register of Historic Places, and those buildings that are designated by authorized personnel as historically significant;*
 - 4) *Other buildings specified as exempt by the IECC.*

b) *For the purposes of determining whether an exemption authorized under subsection (a)(2) applies, a building will be presumed to be heated by electricity, even in the absence of equipment used for electric comfort heating, whenever the building is provided with electrical service in excess of 100 amps, unless the code enforcement official determines that this electrical service is necessary for purposes other than providing electric comfort heating. [20 ILCS 3125/20]*

(Source: Amended at 43 Ill. Reg. 8707, effective August 5, 2019)

Section 600.320 Local Jurisdiction

a) Construction projects involving privately funded commercial facilities and for which a municipality or county requires a building permit must comply with the Illinois Energy Conservation Code or the Illinois Stretch Energy Code if adopted by the municipality if the project involves new construction, addition, alteration, renovation or repair. *In the case of any addition, alteration, renovation or repair to an existing commercial structure, the Code as described by this Subpart C applies only to the portions of that structure that are being added, altered, renovated or repaired. [20 ILCS 3125/20(a)]*

b) The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code and/or the Illinois Commercial Stretch Energy Code. The AHJ is authorized to enforce an energy building code that differs with the Illinois Energy Conservation Code or the Illinois Commercial Stretch Energy Code as described in this Subpart C, but any standards applied by an AHJ must be at least as stringent as the Code as described in this Subpart C.

c) *A unit of local government that does not regulate energy efficient building standards is not required to adopt, enforce or administer the Code; however, any energy efficient building standards adopted by a unit of local government must comply with the Act. If a unit of local government does not regulate energy efficient building standards, any construction, renovation or addition to buildings or structures is still subject to the provisions contained in the Act. [20 ILCS 3125/20(d)]*

(Source: Amended at 40 Ill. Reg. 2754, effective January 20, 2016)

Section 600.330 Compliance

a) Compliance with the Illinois Energy Conservation Code as described by this Subpart C (applicable to commercial facilities) shall be determined by the local

authority having jurisdiction (AHJ). Minimum compliance shall be demonstrated by submission of one of the following:

b) Minimum compliance shall be demonstrated by submission of:

- 1) the compliance forms published in the ASHRAE 90.1 User's Manual; or
- 2) Compliance Certificates generated by the U.S. Department of Energy's COMcheck code compliance tool; or
- 3) other comparable compliance materials that meet or exceed, as determined by the authority having jurisdiction, the compliance forms published in the ASHRAE 90.1 User's Manual or the U.S. Department of Energy's COMcheck code compliance tool; or
- 4) the seal of the Architect/Engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

b) Compliance with the Illinois Commercial Stretch Energy Code as described by this Subpart C (applicable to commercial facilities) shall be determined by the local authority having jurisdiction (AHJ). Minimum compliance shall be demonstrated by submission of one of the following:

- 1) Buildings certified in compliance with Passive House Institute (PHI) or Passive House Institute U.S. (PHIUS) programs;
- 2) The code official shall be permitted to approve specific computer software, worksheets, compliance manuals and other similar materials that meet the intent of this code; or
- 3) the seal of the Architect/Engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

(Source: Amended at 33 Ill. Reg. 16702, effective November 23, 2009)

Commented [CR21]: New compliance methods for the Commercial Stretch Energy Code.

Section 600.340 Application to Home Rule Units

Section 45(d) of the EEB Act is a denial and limitation of home rule powers and functions under subsection (i) of Section 6 of Article VII of the Illinois Constitution on the concurrent exercise by

home rule units of powers and functions exercised by the State. Nothing in Section 45(d) of the EEB Act, however, prevents a unit of local government from adopting an energy efficiency code or standards for commercial buildings that are more stringent than the Code under the EEB Act. [20 ILCS 3125/45(d)]

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

SUBPART D: RESIDENTIAL BUILDINGS

Section 600.400 Illinois Energy Conservation Code Standards for Residential Buildings

- a) The 2021 IECC, including published errata but excluding published supplements, available from the International Code Council at 200 Massachusetts Ave, NW Suite 250, Washington DC 20001, phone: 1-888-ICC-SAFE (422-7233), www.iccsafe.org, is hereby incorporated into the Illinois Energy Conservation Code, as described in this Subpart as applicable to residential buildings, with the modifications outlined in subsection (c).
- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.
- c) Modifications to IECC
Under Section 15 of the EEB Act, when applying the Code to residential buildings, CDB may modify the incorporated standards to respond to the unique economy, population distribution, geography and climate of Illinois, as long as the objectives of the Act are maintained pursuant to that statutory authority. Modifications, additions or omissions to IECC are specified in Appendix A and are rules of the CDB and are not requirements of the IECC.

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

Section 600.405 Illinois Residential Stretch Energy Code

- a) The 2021 IECC, including published errata but excluding published supplements, available from the International Code Council at 500 New Jersey Avenue NW, 6th Floor, Washington DC 20001, phone: 1-888-ICC-SAFE (422-7233), www.iccsafe.org, is hereby incorporated into the Illinois Residential Stretch Energy Code, as described in this Subpart as applicable to residential buildings, with modifications outlined in subsection (c).

Commented [CR22]: New Stretch Code requirements for Residential buildings.

- b) All incorporations by reference in this Section are of the cited standards as they existed on the date specified. These incorporations include no later editions or amendments.
- c) Modifications to the IECC
Under Section 55 of the EEB Act, when applying the Code to privately funded residential buildings, CDB shall modify the incorporated standards to meet the site energy index specified in the EEB Act. Modifications, additions or omissions to the IECC are specified in Appendix C and are rules of the CDB and are not requirements of the IECC.

Section 600.410 Exemptions

- a) The following buildings are exempt from the Code:
 - 1) *Buildings otherwise exempt from the provisions of a locally adopted building code and buildings that do not contain a conditioned space;*
 - 2) *Buildings that do not use either electricity or fossil fuel for comfort conditioning;*
 - 3) *Historic buildings listed on the National Register of Historic Places or the Illinois Register of Historic Places, and those buildings that are designated by authorized personnel as historically significant;*
 - 4) *Other buildings specified as exempt by the IECC. [20 ILCS 3125/20]*
- b) *For the purposes of determining whether an exemption authorized under subsection (a)(2) applies, a building will be presumed to be heated by electricity, even in the absence of equipment used for electric comfort heating, whenever the building is provided with electrical service in excess of 100 amps, unless the code enforcement official determines that this electrical service is necessary for purposes other than providing electric comfort heating. [20 ILCS 3125/20(b)(2)]*

(Source: Added at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 600.420 Local Jurisdiction

- a) Construction projects involving residential buildings and for which a municipality or county requires a building permit must comply with the Illinois Energy Conservation Code or the Illinois Residential Stretch Energy Code if adopted by the municipality if the project involves new construction, addition, alteration, renovation or repair. *In the case of any addition, alteration, renovation or repair*

to an existing residential structure, the Code as described by this Subpart D applies only to the portions of that structure that are being added, altered, renovated or repaired. [20 ILCS 3125/20(a)]

- b) The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Code.
- c) *A unit of local government that does not regulate energy efficient building standards is not required to adopt, enforce or administer the Code; however, any energy efficient building standards adopted by a unit of local government must comply with the Act. If a unit of local government does not regulate energy efficient building standards, any construction, renovation or addition to buildings or structures is still subject to the provisions contained in the Act. [20 ILCS 3125/20(d)].*

(Source: Amended at 47 Ill. Reg. 17974, effective November 27, 2023)

Section 600.430 Compliance

- a) Compliance with the Illinois Energy Conservation Code as described by this Subpart D (applicable to residential buildings) shall be determined by the local AHJ. Minimum compliance shall be demonstrated by submission of one of the following:
 - b) Minimum compliance shall be demonstrated by submission of:
 - 1) Compliance Certificates generated by the U.S. Department of Energy's REScheck code compliance tool; or
 - 2) Other comparable compliance materials that meet or exceed, as determined by the AHJ, U.S. Department of Energy's REScheck code compliance tool; or
 - 3) The seal of the architect/engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].
 - b) Compliance with the Illinois Residential Stretch Energy Code as described by this Subpart D (applicable to residential buildings) shall be determined by the local AHJ. Minimum compliance shall be demonstrated by submission of one of the following:

- 1) Buildings certified in compliance with Passive House Institute (PHI) or Passive House Institute U.S. (PHIUS) programs;
- 2) The code official shall be permitted to approve specific computer software, worksheets, compliance manuals and other similar materials that meet the intent of this code; or
- 3) the seal of the Architect/Engineer as required by Section 14 of the Illinois Architecture Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

Commented [CR23]: New compliance methods for the Residential Stretch Energy Code.

(Source: Added at 34 Ill. Reg. 11398, effective July 26, 2010)

Section 600.440 Application to Home Rule Units

Commented [CR24]: Multiple edits to match statute.

- a) *No unit of local government, including any home rule unit, may regulate energy efficient building standards for residential buildings in a manner that is either less or more stringent than the standards established in this Subpart D.*
- b) *The following entities may regulate energy efficient building standards for residential or commercial buildings in a manner that is more stringent than the provisions contained in this Subpart D:*
 - 1) *a unit of local government, including a home rule unit, that has, on or before May 15, 2009, adopted or incorporated by reference energy efficient building standards for residential or commercial buildings that are equivalent to or more stringent than the 2006 IECC;*
 - 2) *a unit of local government, including a home rule unit, that has, on or before May 15, 2009, provided to the Capital Development Board, as required by Section 10.18 of the Capital Development Board Act [20 ILCS 3105], an identification of an energy efficient building code or amendment that is equivalent to or more stringent than the 2006 IECC; and*
 - 3) *a municipality with a population of 1,000,000 or more. ~~[20 ILCS 3125/45(b)]~~*
 - 4) *a municipality that has adopted the Illinois Stretch Energy Code [20 ILCS 3125/45 (b)]*

|

|

c) *No unit of local government, including any home rule unit or unit of local government that is subject to State regulation under the Code as provided in Section 15 of the EEB may enact any annexation ordinance or resolution, or require or enter into any annexation agreement, that imposes energy efficient building standards for residential or commercial buildings that are either less or more stringent than the energy efficiency standards in effect, at the time of construction, throughout the unit of local government, except for the Illinois Stretch Energy Code. [20 ILCS 3125/45(c)]*

(Source: Amended at 43 Ill. Reg. 8707, effective August 5, 2019)

Section 600.APPENDIX A | Supplanted and Additional 2021 International Energy Conservation Code Sections

The following Code sections shall be referenced in place of the corresponding 2021 IECC sections.

Commented [CR25]: This is an existing Appendix in the Rule. The only change is shown below.

**CHAPTER 1 [RE]
SCOPE AND ADMINISTRATION****SECTION R102
ALTERNATIVE MATERIALS DESIGN AND METHODS
OF CONSTRUCTION AND EQUIPMENT**

R102.1.1 Above Code Programs. No unit of local government, including any home rule unit, may regulate energy efficient building standards for residential building in a manner that is either less or more stringent than the standards established pursuant to this Code. Buildings shall be considered to be in compliance with this code when those buildings also meet the requirements identified in Table R405.2 and the building thermal envelope is greater than or equal to levels of efficiency and solar heat gain coefficients (SHGC) in Tables 402.1.1 and 402.1.3 of the 2009 International Energy Conservation Code.

However, the following entities may regulate energy efficient building standards for residential buildings in a manner that is more stringent than the provisions contained in this Code:

- i) A unit of local government, including a home rule unit, that has, on or before May 15, 2009, adopted or incorporated by reference energy efficient building standards for residential buildings that are equivalent to or more stringent than the 2006 International Energy Conservation Code;
- ii) A unit of local government, including a home rule unit, that has, on or before May 15, 2009, provided to the Capital Development Board, as required by Section 10.18 of the Capital Development Board Act, an identification of an energy efficient building code or amendment that is equivalent to or more stringent than the 2006 International Energy Conservation Code; **and**
- iii) A municipality with a population of 1,000,000 or more; **and**

iv) [A municipality that has adopted the Illinois Stretch Energy Code.](#)

Commented [CR26]: New category per statute.

Section 600.APPENDIX B | Supplanted and Additional 2024 International Energy Conservation Code Sections

The following Code sections shall be referenced in place of the corresponding 2024 IECC Final Draft sections.

Commented [CR27]: This is an entirely new Appendix in the Rule. All text (other than red strike-thru) will be added to the Rule. The edits shown are revisions to the 2024 IECC.

CHAPTER 1 [CE] SCOPE AND ADMINISTRATION

User note:

About this chapter: Chapter 1 establishes the limits of applicability of the code and describes how the code is to be applied and enforced. Chapter 1 is in two parts: Part 1—Scope and Application and Part 2—Administration and Enforcement. Section C101, identifies what buildings, systems, appliances and equipment fall under its purview and references other I-Codes as applicable. Standards and codes are scoped to the extent referenced.

The code is intended to be adopted as a legally enforceable document and it cannot be effective without adequate provisions for its administration and enforcement. The provisions of Chapter 1 establish the authority and duties of the code official appointed by the authority having jurisdiction and also establish the rights and privileges of the design professional, contractor and property owner.

PART 1—SCOPE AND APPLICATION

SECTION C101 SCOPE AND GENERAL REQUIREMENTS

C101.1 Title. This code shall be known as the 2023 Illinois Commercial Stretch Energy Conservation Code of [NAME OF JURISDICTION], and shall mean: be cited as such. It is referred to herein as "this code."

Commented [CR28]: Defines the Title of the new Commercial Stretch Code

With respect to the State facilities covered by 71 Ill. Adm. Code 600.Subpart B:

This Part, all additional requirements incorporated within Subpart B (including the 2024 International Energy Conservation Code Final Draft Commercial Provisions, including all published errata but excluding published supplements that encompass ASHRAE 90.1-2022), and any statutorily authorized adaptations to the incorporated standards adopted by CDB are effective 7/1/24.

Commented [CR29]: Defines the application of the Commercial Stretch Code to State Facilities including 2024 IECC.

With respect to the privately funded commercial facilities covered by 71 Ill. Adm. Code 600.Subpart C:

This Part, all additional requirements incorporated within Subpart C (including the 2024 International Energy Conservation Code Final Draft Commercial Provisions, including all published errata and excluding published supplements that encompass ASHRAE 90.1-2022), and any statutorily authorized adaptations to the incorporated standards adopted by CDB is effective upon adoption by a Municipality and takes the place of the Illinois Energy Conservation Code with respect to commercial buildings.

Commented [CR30]: Defines the application of the Commercial Stretch Code to Privately Funded Commercial Facilities including 2024 IECC.

No unit of local government, including any home rule unit, may regulate energy efficient building standards for commercial buildings in a manner that is less stringent than the standards established pursuant to this Illinois Commercial Stretch Energy Code.

Commented [CR31]: Defines the Stretch Code as a "minimum" requirement per statute.

C101.2 Scope. This code applies to the design and construction of buildings not covered by the scope of the IECC – Residential Provisions.

C101.2.1 Appendices

Provisions in the appendices shall not apply unless specifically adopted.

C101.3 Intent. The International Energy Conservation Code - Commercial Provisions provide market-driven, enforceable requirements for the design and construction of commercial buildings, providing minimum efficiency requirements for buildings that result in the maximum level of energy efficiency that is safe, technologically feasible, and life cycle cost effective, considering economic feasibility, including potential costs and savings for consumers and building owners, and return on investment. Additionally, the code provides jurisdictions with supplemental requirements, including ASHRAE 90.1, and optional requirements that lead to achievement of zero energy buildings, presently, and through glidepaths that achieve zero energy buildings by 2030 and on additional timelines sought by governments, and achievement of additional policy goals as identified by the Energy and Carbon Advisory Council and approved by the Board of Directors. Requirements contained in the code will include, but not be limited to, prescriptive- and performance-based pathways. The code may include non-mandatory appendices incorporating additional energy efficiency and greenhouse gas reduction resources developed by the Code Council and others. The code will aim to simplify code requirements to facilitate the code's use and compliance rate. The code is updated on a three-year cycle with each subsequent edition providing increased energy savings over the prior edition. This code is intended to provide flexibility to permit the use of innovative approaches and techniques to achieve this intent. This code is not intended to abridge safety, health or environmental requirements contained in other applicable codes or ordinances.

C101.4 Compliance. Residential buildings shall meet the provisions of IECC—Residential Provisions. Commercial buildings shall meet the provisions of IECC—Commercial Provisions, the Illinois Commercial Stretch Energy Code covered by 71 Ill. Adm. Code 600 Subpart C. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Commercial Stretch Energy Code. Minimum compliance shall be demonstrated by submission of:

C101.4.1 Compliance materials. The code official shall be permitted to approve specific computer software, worksheets, compliance manuals and other similar materials that meet the intent of this code, or

C101.4.2 Professional Seals. The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

Commented [CR32]: Enforcement and compliance is left to the AHJ similar to the IL Energy Conservation Code.

SECTION C102 APPLICABILITY

C102.1 Applicability. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall govern.

C102.1.1 Mixed residential and commercial buildings. Where a building includes both residential building and commercial building portions, each portion shall be separately considered and meet the applicable provisions of Illinois Commercial Stretch Energy Code or the Illinois Residential Stretch Energy Code, IECC—Commercial Provisions, or IECC—Residential Provisions.

C102.2 Other laws. The provisions of this code shall not be deemed to nullify any provisions of local, state or federal law.

C102.3 Applications of references. References to chapter or section numbers, or to provisions not specifically identified by number, shall be construed to refer to such chapter, section or provision of this code.

C102.4 Referenced codes and standards. The codes and standards referenced in this code shall be those listed in Chapter 6, and such codes and standards shall be considered as part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections C102.4.1 and C102.4.2.

C102.4.1 Conflicts. Where conflicts occur between provisions of this code and referenced codes and standards, the provisions of this code shall apply.

C102.4.2 Provisions in referenced codes and standards. Where the extent of the reference to a referenced code or standard includes subject matter that is within the scope of this code, the provisions of this code, as applicable, shall take precedence over the provisions in the referenced code or standard.

C102.5 Partial invalidity. If a portion of this code is held to be illegal or void, such a decision shall not affect the validity of the remainder of this code.

PART 2—ADMINISTRATION AND ENFORCEMENT SECTION C103

ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND EQUIPMENT

C103.1 General. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. The code official

shall have the authority to approve an alternative material, design or method of construction upon the written application of the *owner* or the *owner*'s authorized agent. The *code official* shall first find that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code in quality, strength, effectiveness, *fire resistance*, durability, energy conservation and safety. The *code official* shall respond to the applicant, in writing, stating the reasons why the alternative was *approved* or was not *approved*.

C103.1.1 Above code programs. *The code official or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program as exceeding the energy efficiency required by this code. Buildings certified in compliance with Passive House Institute (PHI) or Passive House Institute U.S. (PHIUS) programs, or buildings that comply with Appendix CC, shall be deemed to meet the requirements of this code where such buildings also meet the Buildings approved in writing by such an energy efficiency program shall be considered to be in compliance with this code. The requirements identified in Table C407.2(1) shall be met.*

Commented [CR34]: Allows Passive House as an above code program per statute.

SECTION C104 CODE COMPLIANCE AGENCY

C104.1 Creation of enforcement agency. The [INSERT NAME OF DEPARTMENT] is hereby created and the official in charge thereof shall be known as the authority having jurisdiction (AHJ). The function of the agency shall be the implementation, administration and enforcement of the provisions of this code.

C104.2 Appointment. The authority having jurisdiction (AHJ) shall be appointed by the chief appointing authority of the jurisdiction.

C104.3 Deputies. In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the authority having jurisdiction (AHJ) shall have the authority to appoint a deputy authority having jurisdiction (AHJ), other related technical officers, inspectors and other employees. Such employees shall have powers as delegated by the authority having jurisdiction (AHJ).

SECTION C105 CONSTRUCTION DOCUMENTS

C105.2.2 Electrification system. *The construction documents shall provide details for additional electric infrastructure, including branch circuits, conduit, pre-wiring, panel capacity, and electrical service capacity, as well as interior and exterior spaces designated for future electric equipment, in compliance with the provisions of this code.*

Commented [CR35]: Requires "electric readiness" provisions to be shown on the drawings.

SECTION C107 INSPECTIONS

C107.2.5 Electrical system. Inspection shall verify lighting system controls, components, *and* meters, *and* electric infrastructure as required by the code, approved plans and specifications. Where an electrical energy storage system area is required, inspections shall verify space availability and pathways to electrical service.

Commented [CR36]: Requires "electric readiness" provisions to be inspected.

SECTION C202 GENERAL DEFINITIONS

2024 INTERNATIONAL ENERGY CONSERVATION CODE FINAL DRAFT. *The draft version of the 2024 IECC which includes changes from Public Comment Draft #2 and approved proposals from the Committee Action Report.*

Commented [CR37]: Clarifies the version of the reference code.

COMMERCIAL COOKING APPLIANCE. Appliances used in a commercial food service establishment for heating or cooking food. For the purpose of this definition, a commercial food service establishment is where food is regularly prepared for sale or is prepared on a scale that is by volume and frequency not representative of domestic household cooking.

ELECTRIC VEHICLE CAPABLE SPACE (EV CAPABLE SPACE). An automobile parking space provided with electrical infrastructure, ~~such as, but not limited to,~~ including raceway or cable assemblies, ~~eables~~, electrical capacity, and electrical distribution equipment space, necessary for connection to an EVSE.

REPLACEMENT COST. The cost to construct or replace an entire building with equal quality, construction type, and square footage, at current construction market labor and material rates.

SUBSTANTIAL IMPROVEMENT. Any *repair*, reconstruction, rehabilitation, *alteration*, *addition* or other improvement of a building or structure, the cost of which equals or is more than 50 percent of the market value replacement cost of the structure before the improvement or repair is started. Where the structure has sustained *substantial damage*, as defined in the International Building Code, any repairs are considered substantial improvement regardless of the actual *repair* work performed. Substantial improvement does not include the following:

1. Improvement of a *building* ordered by the code official to correct health, sanitary or safety code violations and that are the minimum necessary to assure safe living conditions.
2. *Alteration of a historic building where the alteration will not affect the designation as a historic structure.*

Commented [CR38]: Forces the determination of "substantial" to be based on replacement cost. This avoids inconsistencies across jurisdictions that use other methods such as assessed value.

SECTION C401 GENERAL

C401.2 Application. Commercial buildings shall comply with Section C401.2.1 or C401.2.2.

C401.2.1 Commercial buildings shall comply with one of the following:

1. Prescriptive Compliance. The Prescriptive Compliance option requires compliance with Sections C402 through C406 and Section C408. Dwelling units and sleeping units in Group R-2 buildings shall be deemed to be in compliance with this chapter, provided that they comply with Section R406.
2. Simulated Building Performance. The Simulated Building Performance option requires compliance with Section C407.

Exception: Additions, alterations, repairs and changes of occupancy to existing buildings complying with Chapter 5.

C401.2.2 ASHRAE 90.1. Commercial buildings shall comply with the requirements of ANSI/ASHRAE/IES 90.1, [Appendix CI](#), and the requirements of the sections indicated within Table C401.2.2

TABLE C401.2.2 REQUIREMENTS FOR ASHRAE 90.1 COMPLIANCE

<u>SECTION^a</u>	<u>TITLE</u>
<u>New Construction</u>	
C405.4	Horticultural lighting
C405.14	Electric Vehicle Power Transfer Infrastructure
C405.16	Electrical energy storage system
C405.18	Electric infrastructure
<u>Additions and Alterations</u>	
C502.3.7	Additional energy efficiency credits
C503.3.4	Mechanical system acceptance testing
C503.3.5	Duct testing
C503.3.6	Controls
C503.3.7	System sizing
C503.6	Additional energy efficiency credits
C505.1.3	Additional energy efficiency for changes of occupancy

Commented [CR39]: Requires the ASHRAE 90.1 compliance method to also meet noted provisions in the IECC.

a. Reference to a code section includes all the relative subsections as indicated in the table.

SECTION C402
BUILDING THERMAL ENVELOPE REQUIREMENTS

C402.5.1.3 Fenestration Orientation.

The vertical fenestration shall comply with equation either (a) or (b)

Commented [CR40]: Added to Stretch Code to be consistent with IL Energy Conservation Code.

a. $AW \leq (AT)/4$ and $AE \leq (AT)/4$

b. $AW \times SHGCW \leq (AT \times SHGCC)/5$ and $AE \times SHGCE \leq (AT \times SHGCC)/5$

where

Aw = west-oriented vertical fenestration area (oriented within 45 degrees of true west to the south and within 22.5 degrees of true west to the north in the northern hemisphere)

Ae = east-oriented vertical fenestration area (oriented within 45 degrees of true east to the south and within 22.5 degrees of true east to the north in the northern hemisphere)

AT = total vertical fenestration area

$SHGCC$ = SHGC criteria in Table C402.5

$SHGCE$ = SHGC for east-oriented fenestration

$SHGCW$ = SHGC for west-oriented fenestration

Exceptions:

1. Buildings with shade on 75% of the east- and west-oriented vertical fenestration areas from permanent projections, existing buildings, existing permanent infrastructure, or topography at 9 a.m. and 3 p.m., respectively, on the summer solstice (June 21).

2. Alterations and additions with no increase in vertical fenestration area.

3. Buildings where the west-oriented and east-oriented vertical fenestration area does not exceed 20% of the gross wall area for each of those facades, and SHGC on those facades is no greater than 90% of the criteria in Table C402.5.

SECTION C405 ELECTRICAL POWER AND LIGHTING SYSTEMS

C405.4 Horticultural lighting. Permanently installed luminaires shall have a *photosynthetic photon efficacy* of not less than 1.7 $\mu\text{mol}/\text{J}$ for horticultural lighting in greenhouses and not less than 1.9-2.2 $\mu\text{mol}/\text{J}$ for all other horticultural lighting. Luminaires for horticultural lighting in greenhouses shall be controlled by a device that automatically turns off the luminaire when sufficient daylight is available. Luminaires for horticultural lighting shall be controlled by a device that automatically turns off the luminaire at specific programmed times.

Commented [CR41]: Increases efficiency of lighting and provides an exception for cannabis facilities in accordance with statute.

Exception: Cannabis facilities subject to 410 ILCS 705/10-45- the Cannabis Regulation and Tax Act

C405.14.2 EV Capable Spaces. Each EV capable space used to meet the requirements of Section C405.14.1 shall comply with the following:

1. A continuous raceway or cable assembly shall be installed between an enclosure or outlet located within 3 feet (914 mm) of the EV capable space and electrical distribution equipment.
2. Installed raceway or cable assembly shall be sized and rated to supply a minimum circuit ~~capacity~~ *capacity* in accordance with C405.14.5.
3. The electrical distribution equipment to which the raceway or cable assembly connects shall have dedicated overcurrent protection device space and electrical capacity to supply a calculated load in accordance with Section C405.14.5.
4. The enclosure or outlet and the electrical distribution equipment directory shall be marked: "For electric vehicle supply equipment (EVSE)."

C405.14.6 EVSE Installation. EVSE shall be installed in accordance with NFPA 70 and shall be listed and labeled in accordance with UL 2202 or UL 2594. EVSE shall be accessible in accordance with the 2024 edition of the International Building Code Section 1107.

C405.16 Electrical energy storage system. Buildings shall comply with Section C405.16.1 or Section C405.16.2. Buildings shall comply with Section C405.16.3.

C405.16.1 Electrical energy storage system (ESS) capacity. Each building shall have one or more ESS with a total rated energy capacity and rated power capacity as follows:

1. ESS rated energy capacity (kWh) $\geq 1.0 \times$ Installed On-site Renewable Electric Energy System Rated Power (kWDC)
2. ESS rated power capacity (kW) $\geq 0.25 \times$ Installed On-Site Renewable Electric Energy System Rated Power (kWDC).

Where installed, DC coupled battery systems shall meet the requirements for rated energy capacity alone.

C405.16.2 Electrical energy storage system ready. Each building shall have one or more reserved ESS-ready areas to accommodate future electrical storage ~~in accordance with Sections C405.16.2 through C405.16.2.4.~~

C405.16.3 Electrical energy storage installed or ready area. Areas where ESS is installed and ESS-ready areas shall comply with Sections C405.3.1 through C405.3.4.

C405.16.23.1 ESS installed or -ready location. Each ESS ~~installed or~~ -ready area shall be located in accordance with ~~either~~ Section 1207 of the 2024 International Fire Code or NFPA 855. For the purposes of locating and designing means of egress, ESS-installed or ready areas shall comply with either i) means of egress requirements for H-Occupancies of the 2024 International Fire Code or ii) Sections 7.2.1.4.2(3) and 7.11 of NFPA 101 (2015).

C405.16.23.2 ESS installed or -ready minimum area requirements. Each ESS ~~installed or~~ -ready area shall be sized in accordance with the spacing requirements of ~~(i) either~~ Section 1207 of the 2024 edition of the International Fire Code ~~or NFPA 855~~ and ~~(ii)~~ the UL9540 or UL9540A designated rating of the planned system. Where rated to UL9540A, the area shall be sized in accordance with the manufacturer's instructions.

Commented [CR42]: Several changes in this section to make sure that buildings with ESS systems and buildings with ESS provisions both have to meet the same fire code requirements. Also added NFPA 855 as a compliance alternative per OSFM suggestion.

C405.16.23.3 Electrical distribution equipment. The onsite electrical distribution equipment shall have sufficient capacity, rating, and space to allow installation of overcurrent devices and circuit wiring in accordance with NFPA 70 for actual or future electrical ESS installation complying with the capacity criteria of Section C405.16.23.4.

C405.16.23.4 ESS installed or-ready minimum system capacity. Compliance with ESS-ready requirements in Sections C405.16.32.1 through C405.16.32.3 shall be based on a minimum total energy capacity and minimum rated power capacity as follows:

1. ESS rated energy capacity (kWh) \geq gross conditioned floor area of the three largest floors (ft²) \times 0.0008 kWh/ft²
2. ESS rated power capacity (kWh) \geq gross conditioned floor area of the three largest floors (ft²) \times 0.0002 kWh/ft²

C405.18 Electric infrastructure. New group R-2 occupancies that use fossil fuels for space heating, service water heating, cooking, or clothes drying shall install electric infrastructure in accordance with C405.18.1 through C405.18.5 and Section C105.2.2.

C405.18.1 Space heating. Locations with piping for fossil fuel warm-air furnaces and fossil fuel boilers shall comply with Section C405.18.1.1 or C405.18.1.2, as applicable.

Exception to C405.18.1: Where a branch circuit exists for space cooling equipment with the capacity to serve heat pump space heating equipment sized in accordance with the requirements of Section C403.1.1.

C405.18.1.1 Low-capacity space heating. Locations of fossil fuel warm-air furnaces with capacity less than 225,000 Btu/hr (65.9kW) and boilers with a capacity less than 300,000 Btu/hr (88kW) shall be provided with an individual branch circuit in accordance with all of the following:

1. The branch circuit conductors shall terminate within 6 ft (2 m) of the location of the space heating equipment and shall be in a location with *ready access*.
2. The branch circuit shall be sized to serve heat pump space heating equipment sized in accordance with the requirements of Section C403.1.1, and
3. The branch circuit overcurrent device and the termination of the branch circuit shall be labeled "For future heat pump space heating equipment."

C405.18.1.2 Other space heating equipment. Locations of fossil fuel space heating equipment not covered under C405.18.1.1 shall be provided with a raceway in accordance with all of the following:

1. The raceway shall be continuous from a branch circuit panel to a junction box located within the same space as the equipment or, where the equipment is located on the exterior of the building, within 3 ft (1m) of the equipment.
2. The junction box, raceway, bus bar in the electric panel and conductors serving the electrical panel shall be sized to serve electric space heating equipment sized to serve the same load as the fossil fuel space heating equipment.
3. The electrical panel shall have sufficient reserved physical space for branch circuit overprotection devices sized to serve electric equipment sized to serve the same load as the fossil fuel space heating *appliance*.
4. The point of origin and the termination of the raceway shall be labeled "For future heat pump space heating equipment."

C405.18.2 Water heating. Locations with piping for fossil fuel water heaters shall comply with Section C405.18.2.1 or C405.18.2.2, as applicable.

C405.18.2.1 Low-capacity water heating. Locations of fossil fuel water heaters with an input rating of less than 300,000 Btu/hr (88kW) shall comply with all of the following:

1. An individual 30 ampere, 208/240-volt branch circuit shall be provided and terminate within 6 ft (2 m) of the water heater and shall be in a location with *ready access*.
2. The branch circuit overcurrent protection device and the termination of the branch circuit shall be labeled "For future electric water heater".

Commented [CR43]: R-2 occupancies (4 or more story apartments, dorms, etc) must have electric infrastructure for space heating, water heating, cooking and clothes drying.

3. The space for containing the future water heater shall have a height of not less than 7 ft (2 m), a width of not less than 3 ft (1 m), a depth of not less than 3 ft (1 m) and with a volume of not less than 700 ft³ (20 m³).

Exception to C405.18.2.1: Where the space containing the water heater provides for air circulation sufficient for the operation of a heat pump water heater, the minimum room volume shall not be required.

C405.18.2.2 Other water heating. Locations of fossil fuel water heating equipment not covered by Section C405.18.2.1 shall be provided with a raceway in accordance with all of the following:

1. The raceway shall be continuous from an electric panel to a junction box located within the same space as the equipment or, where the equipment is located on the exterior of the building, within 3 ft (1m) of the equipment.
2. The junction box, raceway, and bus bar in the electric panel and conductors serving the electric panel shall be sized to accommodate electric water heating equipment sized to serve the same load as the fossil fuel water heating equipment.
3. The electric panel shall have sufficient reserved physical space for branch circuit overprotection devices sized to serve electric water heating equipment sized to serve the same load as the fossil fuel water heating equipment.
4. The point of origin and termination of the raceway shall be labeled "For future electric water heating appliance".

C405.18.3 Non-commercial cooking. Locations of fossil fuel ranges, cooktops and ovens that are not *commercial cooking appliances* shall be provided with a dedicated individual branch circuit in accordance with all of the following:

1. The branch circuit shall be rated for 208/240-volts and not less than 50 amps.
2. The branch circuit shall terminate within 3 ft (1 m) of the appliance and shall be in a location with *ready access*.
3. The point of origin and termination of the branch circuit shall be labeled "For future electric cooking appliance".

C405.18.4 Clothes drying. Locations with piping for fossil fuel clothes drying equipment shall comply with C405.18.4.1 or C405.18.4.2, as applicable.

C405.18.4.1 Residential drying. Locations of fossil fuel clothes drying appliances serving individual *dwellings units* shall be provided with a dedicated individual branch circuit in accordance with all of the following:

1. The branch circuit shall be rated for 208/240-volts and not less than 30 amps.
2. The branch circuit shall terminate within 3 ft (1 m) of the appliance and shall be in a location with *ready access*.
3. The point of origin and termination of the branch circuit shall be labeled "For future electric clothes drying appliance".

C405.18.4.2 Non-residential drying. Locations of fossil fuel clothes drying appliances not covered by Section C405.18.4.1 shall be provided with a raceway in accordance with all of the following:

1. The raceway shall be continuous from an electric panel to a junction box located within the same space as the appliance.
2. The junction box, raceway, electric panel bus bar and conductors serving the electric panel shall be sized to serve electric clothes drying appliances having the same drying capacity as the fossil fuel appliance.
3. The electric panel shall have sufficient reserved physical space for branch circuit overprotection devices sized to serve electric clothes drying appliances sized to serve the same load as the fossil fuel clothes drying appliances.
4. The point of origin and termination of the raceway shall be labeled "For future electric clothes drying appliance".

C405.18.5 Onsite Transformers. Enclosed spaces and underground vaults containing onsite electric transformers on the *building* side of the electric utility meter shall have sufficient space to accommodate transformers sized to serve the additional electric loads identified in C405.18.1, C405.18.2, C405.18.3 and C405.18.4.

SECTION C406

ADDITIONAL EFFICIENCY, RENEWABLE, AND LOAD MANAGEMENT REQUIREMENTS

C406.1.1 Additional energy efficiency credit requirements. Buildings shall comply with measures from C406.2 to achieve not less than the number of required efficiency credits from Table C406.1.1(1) based on building occupancy group and climate zone including any energy credit adjustments in accordance with C406.1.1.1. Where a project contains multiple occupancies, the total required energy credits from each building occupancy shall be weighted by the gross conditioned floor area to determine the weighted average project energy credits required. Accessory occupancies shall be included with the primary occupancy group for purposes of Section C406.

Exceptions:

1. Portions of buildings devoted to manufacturing or industrial use.

2. Where a building achieves more renewable and load management credits in Section C406.3 than are required in Section C406.1.2, surplus credits shall be permitted to reduce the required energy efficiency credits as follows:

ECCred = EECtbl - {the lesser of: (SRLMlim, SRLMadj X [RLMach - RLMreq])}

EECred = Reduced required energy efficiency credits

EECtbl = Required energy efficiency credits from Table C406.1.1(1)

SRLMlim = Surplus renewable and load management credit limit from Table C406.1.1(2)

SRLMadj = 1.0 for all-electric or all-renewable buildings (excluding emergency generation) 0.7 for buildings with fossil fuel equipment (excluding emergency generation)

RLMach = Achieved renewable and load management credits from Section C406.3

RLMreq = Required renewable and load management credits from Section C406.1.2

TABLE C406.1.1(2)

LIMIT TO ENERGY EFFICIENCY CREDIT CARRYOVER FROM RENEWABLE AND LOAD MANAGEMENT CREDITS

	CLIM ATE ZONE	0A	0B	1A	1B	2A	2B	3A	3B	3C	4A	4B	4C	5A	5B	5C	6A	6B	7	8
BUILDIN G OCCUPA NCY GROUP	R 2, R 4, AND 11	5	5	5	5	5	5	24	19	5	22	18	5	5	19	5	5	5	5	5
I-2	16	14	11	8	6	5	5	10	6	8	14	10	17	26	29	21	21	22	39	
R-1	7	5	8	5	19	5	32	40	41	24	41	42	17	37	41	5	24	15	22	
B	7	5	5	8	6	6	14	26	31	23	29	34	19	35	45	5	19	17	27	
A-2	18	16	14	15	13	9	11	23	32	5	23	23	5	5	26	5	5	5	5	
M	5	5	5	5	5	5	5	5	20	5	5	5	5	5	5	5	5	5	5	

Commented [CR44]: EEB Act does not allow renewable energy offsets to count towards the required site energy index.

E	43	43	48	46	47	44	24	35	40	25	43	29	23	32	27	44	47	25	5
S-1 AND S-2	5	5	5	5	5	5	5	5	43	5	47	20	5	35	23	5	5	44	40
All Other	5	5	5	5	5	5	5	7	47	5	40	7	5	6	44	5	5	5	5

SECTION C407
SIMULATED BUILDING PERFORMANCE

Commented [CR45]: Converts "energy cost" metric to "site energy use" to be consistent with statute.

C407.2 Mandatory requirements. Compliance based on total building performance requires that a proposed design meet all of the following:

1. The requirements of the sections indicated within Table C407.2(1).
2. An annual energy cost site energy use that is less than or equal to the percent of the annual energy cost site energy use (PAECPSEUC) of the standard reference design calculated in Equation 4-32. Energy prices shall be taken from a source approved by the code official, such as the Department of Energy, Energy Information Administration's State Energy Data System Prices and Expenditures reports. Code officials shall be permitted to require time of use pricing in energy cost calculations. The reduction in energy cost site energy use of the proposed design associated with on-site and off-site renewable energy shall not be included in the total site energy use more than 5 percent of the total energy cost. The amount of renewable energy purchased from off-site sources shall be the same in the standard reference design and the proposed design.

Exceptions:

1. Jurisdictions that require site energy (1 kWh = 3413 Btu) rather than energy cost as the metric of comparison.
2. Where energy use based on source energy expressed in Btu or Btu per square foot of conditioned floor area is substituted for the energy cost, the energy use shall be calculated using source energy factors from Table C407.2(2) For electricity, U.S. locations shall use values eGRID subregions. Locations outside the United States shall use the value for "All other electricity" or locally derived values.

PSEUC PAEC = $100 \times (0.80 + 0.25 \cdot ECr/1000)$ (Equation 4-32)

PSEUC-PAEC = Percentage of annual energy cost site energy use applied to standard reference design
 ECr= Energy efficiency credits required for the building in accordance with Section C406.1 (do not include load management and renewable credits)

Modify Table C407.2(1) as follows:

TABLE C407.2(1)

REQUIREMENTS FOR SIMULATED BUILDING PERFORMANCE

Commented [CR46]: Adds Fenestration Orientation requirements to the Simulated Building Performance method to be consistent with other compliance methods.

SECTION ^a	TITLE
	Envelope
C402.5.1.3	Fenestration Orientation

- a. Reference to a code section includes all the relative subsections except as indicated in the table.

Modify Table C407.4.1(1) as follows:

TABLE C407.4.1(1)
SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS

Vertical fenestration other than opaque doors	Area 1. The proposed vertical fenestration area; where the proposed vertical fenestration area is less than 40 percent of the above-grade wall area. 2. 40 percent of above grade wall area; where the proposed vertical fenestration area is 40 percent or more of the above grade wall area 3. Fenestration orientation shall comply with C402.5.1.3	As proposed
	U-factor: as specified in Table C402.5	As proposed
	1. SHGC: as specified in Table C402.5 except that for climates with no requirement (NR) SHGC = 0.40 shall be used. 2. Fenestration SHGC shall comply with C402.5.1.3	As proposed
	External shading and PF: none	As proposed

SECTION C503 ALTERATIONS

C503.6 Additional credit requirements for alterations. Alterations that are substantial improvements shall comply with measures from Sections [C402.5](#) and [C405.18](#) and meet a site EUI by building type in accordance with ASHRAE Standard 100 Table 7-2a. [Replacement cost shall be determined by a registered design professional or approved agency and approved by the code official. C406.2](#), [Section C406.3](#), or both to earn the number of required credits specified in Table C406.1.1 based on building occupancy group and climate zone. Where a project contains multiple occupancies, [credits specified in Table C406.1.1 for each building occupancy site EUI requirements](#) shall be weighted by the gross conditioned floor area to determine the weighted average [credits site EUI](#) required. Accessory occupancies, other than Groups F or H, shall be included with the primary occupancy group for the purposes of this section.

Commented [CR47]: Defines who can determine "replacement cost". Also uses ASHRAE 100 for EUI instead of IECC.

Exceptions:

1. Alterations that do not contain conditioned space.
2. Portions of buildings devoted to manufacturing or industrial use.
3. Alterations to buildings where the building after the alteration complies with Section C407.
4. Alterations that are permitted with an addition complying with Section C502.3.7.
5. Group R occupancies that achieve an ERI score of 80 or below without on-site renewable energy included in accordance with RESNET/ICC 301, for each dwelling unit.

SECTION C505 CHANGE OF OCCUPANCY OR USE

C505.1.3 Additional energy efficiency for changes of occupancy. Where a space is converted from one occupancy type to another occupancy type, it shall comply with Section C406.1.1.1.

Exception:

1. [Alterations complying with Section C503.6.](#)
2. [Where no less than 50 percent of the peak space heating and peak water heating load of the building is served by heat pump equipment.](#)

Commented [CR48]: Provides an incentive to use heat pumps instead of fossil fuel space heating in alterations involving a change in occupancy.

Appendix CI
Total Building Performance Pathway

CI101 Scope. This section establishes criteria for *buildings* that demonstrate compliance using total building performance utilizing site energy in accordance with Section 4.2.1.1 of ANSI/ASHRAE/IESNA 90.1.

Commented [CR49]: Converts the ASHRAE 90.1 Total Building Performance Pathway from an "energy cost" metric to a "site energy index" metric as required by statute.

CI102 Compliance based on site energy. *Buildings* shall comply with ANSI/ASHRAE/IESNA 90.1 as modified by this section.

CI102.1 Terms. For the purposes of compliance with this appendix, terminology in ANSI/ASHRAE/IESNA 90.1 shall be modified as follows:

1. Replace references to energy cost with references to site energy in Sections G1.2.2, G1.3.2, G2.1, G2.5 and G2.4.2 section heading.
2. *baseline building performance* shall be defined as "the annual site *energy cost* for a *building* design intended for use as a baseline for rating above-standard design or when using the *Performance Rating Method* as an alternative path for minimum standard compliance in accordance with Section 4.2.1.1."
3. *proposed building performance* shall be defined as "the annual site *energy* calculated for a *proposed design*."

CI102.2 Section 4.2.1.1. Section 4.2.1.1 shall be replaced with the following:

New buildings shall comply with Section 4.2.2 through 4.2.5 and either the provisions of

- a. Sections 5, "Building Envelope"; 6, "Heating, Ventilating, and Air Conditioning"; 7, "Service Water Heating"; 8, "Power"; 9, "Lighting"; 10, "Other Equipment"; and 11, "Additional Efficiency Requirements," or
- b. Normative Appendix G, "Performance Rating Method."

When using Normative Appendix G, the Performance Index (Site Energy) of *new buildings, additions to existing buildings, and/or alterations to existing buildings* shall be less than or equal to the Performance Index Target (PI_t) when calculated in accordance with the following:

$$PI_t = [BBUE + (BPF_{site} \times BBRE) - PRE] / BBP$$

Where

PI = Performance Index (Site Energy) calculated in accordance with Section G1.2.

BBUE = baseline building unregulated site energy, the portion of the annual site energy of a *baseline building* design that is due to *unregulated energy use*.

BBRE = baseline building regulated site energy, the portion of the annual site *energy cost* of a *baseline building* design that is due to *regulated energy use*.

BPF = building performance factor from Table 4.2.1.1. For *building* area types not listed in Table 4.2.1.1 use "All others." Where a *building* has multiple *building* area types, the required BPF shall be equal to the area-weighted average of the *building* area types based on their *gross floor area*. Where a project includes an *existing building* and an *addition*, the required BPF shall be equal to the area-weighted average, based on the *gross floor area*, of the *existing building* BPF determined as described in Section 4.2.1.3 and the *addition* BPF from Table 4.2.1.1.

BBP = baseline building performance.

PBP = proposed building performance, including the reduced, annual site energy associated with all on-site renewable energy generation systems.

PBP_{pre} = proposed building performance without any credit for reduced annual energy from on-site renewable energy generation systems.

PBP_{pre} = proposed building performance, excluding any renewable energy system in the proposed design and including an on-site renewable energy system that meets but does not exceed the requirements of Section 10.5.1.1 modeled following the requirements for a budget building design in Table 12.5.1.

PRE = PBP_{pre} - PBP_{pre}

When (PBP_{pre} - PBP)/BBP > 0.05, *new buildings, additions to existing buildings, and/or alterations to existing buildings* shall comply with the following:

$$PCSEI + [(PBP_{pre} - PBP)/BBP] - 0.05 < PCSEIt$$

When (PBP_{pre} - PBP)/BBP > 0.05, *new buildings, additions to existing buildings, and/or alterations to existing buildings* shall comply with the following:

$$PCI + [(PBP_{pre} - PBP)/BBP] - 0.05 < PCI_t$$

Informative Notes:

1. PBP_{nre} = *proposed building performance, no renewable energy*
2. PBP_{pre} = *proposed building performance, prescriptive renewable energy*
3. PRE = *prescriptive renewable energy*

CI102.3 Building performance factors. Table 4.2.1.1 Building Performance Factor (BPF) shall be replaced with Table CI102.3.

Table CI102.3 Building Performance Factors (BPF), Site Energy

<u>Building Area Type</u>	<u>Climate Zone</u>	
	<u>4A</u>	<u>5A</u>
<u>Multifamily</u>	<u>0.61</u>	<u>0.56</u>
<u>Healthcare/hospital</u>	<u>0.62</u>	<u>0.65</u>
<u>Hotel/motel</u>	<u>0.65</u>	<u>0.63</u>
<u>Office</u>	<u>0.47</u>	<u>0.49</u>
<u>Restaurant</u>	<u>0.66</u>	<u>0.69</u>
<u>Retail</u>	<u>0.47</u>	<u>0.52</u>
<u>School</u>	<u>0.42</u>	<u>0.44</u>
<u>Warehouse</u>	<u>0.38</u>	<u>0.46</u>
<u>All others</u>	<u>0.55</u>	<u>0.57</u>

CI102.4 Section G1.2.2. Section G1.2.2 shall be replaced with the following:

The performance of the *proposed design* is calculated in accordance with provisions of this appendix using the following formula:

$$\text{Performance Site Energy Index} = \text{Proposed building performance} / \text{Baseline building performance}$$

Both the *proposed building performance* and the *baseline building performance* shall include all end-use load components within and associated with the *building* when calculating the *Performance Site Energy Index*.

CI102.5 Section G1.3.2. Item a. in Section G1.3.2 shall be replaced as follows, and item r. added as follows:

- a. The following documentation shall be submitted to the *rating authority*: The *simulation program* used, the version of the *simulation program*, and the results of the *energy analysis* including the calculated values for the *baseline building unregulated site energy (BBUE)*, *baseline building regulated site energy (BBRE)*, *Building Performance Factor (BPF)*, *baseline building performance*, the *proposed building performance*, *Performance Site Energy Index (PCSEI)*, and *Performance Site Energy Index Target (PIt)*.
- p. For any exceptional calculation methods employed, document the predicted *energy savings* by *energy type*, the *site energy savings*, a narrative explaining the exceptional calculation method performed, and theoretical or empirical information supporting the accuracy of the method.

CI102.6 Section G2.4.2. Section G2.4.2 shall be renamed “Annual Site Energy.” The informative note for sections G2.4.2 and G2.4.2.2 shall be removed. The first sentence in section G2.4.2. shall be replaced with the following:

The *baseline building performance* and *proposed building performance* shall be determined using conversion factors in Table CI103.6

Table CI103.6 Units of Fuel to Site Energy Conversion Factors

<u>Building Project Energy Source</u>	<u>Units</u>	<u>Site energy Btu/unit (W·h/unit)</u>
Electricity	kWh	3,412
Natural Gas	Therm (GJ)	100,000 (277,778)
Propane	Therm (GJ)	100,000 (277,778)
Distillate fuel oil	Gallon (L)	137,600 (10,651)

CI102.7 Section G2.5. Section G2.5, item e shall be replaced with the following:

e. The Performance Site Energy Index calculated with and without the exceptional calculation method.

Section 600.APPENDIX C Supplanted and Additional 2021 International Energy Conservation Code Sections

The following Code sections shall be referenced in place of the corresponding 2021 IECC sections.

Commented [CR50]: This is an entirely new Appendix in the Rule. All text (other than red strike-thru) will be added to the Rule. The edits shown are revisions to the 2021 IECC.

PART 1—SCOPE AND APPLICATION

SECTION R101 SCOPE AND GENERAL REQUIREMENTS

R101.1 Title. This code shall be known as the 2023 Illinois Residential Stretch Energy Conservation Code or “this Code” of NAME OF JURISDICTION and shall mean be cited as such. It is referred to herein as “this code.”

Commented [CR51]: Defines the title of the new Residential Stretch Code.

With respect to the residential buildings covered by 71 Ill Adm Code 600 Subpart D:

This Part, all additional requirements incorporated within Subpart D (including the 2021 International Energy Conservation Code Residential Provisions, including all published errata but excluding published supplements) and any statutorily authorized adaptations to the incorporated standards adopted by CDB is effective upon adoption by a Municipality and takes the place of the Illinois Energy Conservation Code with respect to residential buildings.

No unit of local government, including any home rule unit, may regulate energy efficient building standards for residential buildings in a manner that is less stringent than the standards established pursuant to this Illinois Residential Stretch Energy Code.

Commented [CR52]: Defines the application of the new Residential Stretch Code to Residential Buildings including the 2021 IECC.

Commented [CR53]: Sets the Stretch Code as a minimum requirement per statute.

R101.2 Scope. This code applies to *residential buildings*, *building* sites and associated systems and equipment.

R101.2.1 Appendices. Provisions in the appendices shall not apply unless specifically adopted.

Commented [CR54]: Clarifies that appendices are optional.

R101.3 Intent. This code shall regulate the design and construction of *buildings* for the effective use and conservation of energy over the useful life of each building. This code is intended to provide flexibility to permit the use of innovative approaches and techniques to achieve this objective. This code is not intended to abridge safety, health or environmental requirements contained in other applicable codes or ordinances.

R101.4 Applicability. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall govern.

R101.4.1 Mixed residential and commercial buildings. Where a *building* includes both *residential building* and *commercial building* portions, each portion shall be separately considered and meet the applicable provisions of the Illinois Commercial Stretch Code or the Illinois Residential Stretch Code. IECC Commercial Provisions or IECC Residential Provisions.

Commented [CR55]: Requires mixed use buildings to comply with the applicable Stretch Code.

R101.5 Compliance. *Residential buildings* shall meet the provisions of the Illinois Residential Stretch Code covered by 71 Ill Adm. Code 600 Subpart D. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Residential Stretch Code. IECC Residential Provisions. Commercial buildings shall meet the provisions of IECC Commercial Provisions. Minimum compliance shall be demonstrated by submission of:

R101.5.1 Compliance materials. The *code official* shall be permitted to approve specific computer software, worksheets, compliance manuals and other similar materials that meet the intent of this code, or

R101.5.2 Professional Seals. The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

Commented [CR56]: Enforcement and compliance is left to the AHJ similar to the IL Energy Conservation Code.

SECTION R102 ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND EQUIPMENT

R102.1 General. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. The *code official* shall have the authority to approve an alternative material, design or method of construction upon the written application of the owner or the owner's authorized agent. The *code official* shall first find that the proposed design is satisfactory and complies with the intent of

the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code for strength, effectiveness, fire resistance, durability, energy conservation and safety. The *code official* shall respond to the applicant, in writing, stating the reasons why the alternative was *approved* or was not *approved*.

R102.1.1 Above code programs. *The code official or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code. Buildings approved in writing by such an energy efficiency program shall be considered to be in compliance. Buildings certified in compliance with the Passive House Institute (PHI) or Passive House Institute U.S. (PHIUS) Passive Building Standards programs or buildings that comply with Appendix RC shall be deemed to meet the requirements* with this code where such buildings also meet the requirements identified in Table R405.2 and the *building thermal envelope* is greater than or equal to levels of efficiency and solar heat gain coefficients (SHGC) in Tables 402.1.24 and 402.1.3 ~~of the 2009 International Energy Conservation Code.~~

PART 2—ADMINISTRATION AND ENFORCEMENT

SECTION R103 SCOPE AND ADMINISTRATION

R103.2 Information on construction documents. Construction documents shall be drawn to scale on suitable material. Electronic media documents are permitted to be submitted where *approved* by the *code official*. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed, and show in sufficient detail pertinent data and features of the *building*, systems and equipment as herein governed. Details shall include the following as applicable:

1. Energy compliance path.
2. Insulation materials and their *R*-values.
3. Fenestration *U*-factors and *solar heat gain coefficients* (SHGC).
4. Area-weighted *U*-factor and *solar heat gain coefficients* (SHGC) calculations.
5. Mechanical system design criteria.
6. Mechanical and service water-heating systems and equipment types, sizes and efficiencies.
7. Equipment and system controls.
8. Duct sealing, duct and pipe insulation and location.
9. Air sealing details.

R103.2.1 Building thermal envelope depiction. The *building thermal envelope* shall be represented on the construction documents.

R103.2.2 Solar-ready system. *Where a solar-ready zone is provided, the construction documents shall provide details for dedicated roof area, structural design for roof dead and live load, ground snow load, and routing of conduit or pre-wiring from solar-ready zone to electrical service panel or plumbing from solar-ready zone to service water heating system.*

SECTION R105 INSPECTIONS

R105.1 General. Construction or work for which a permit is required shall be subject to inspection by the *code official* or his or her designated agent, and such construction or work shall remain visible and able to be accessed for inspection purposes until *approved*. It shall be the duty of the permit applicant to cause the work to remain visible and able to be accessed for inspection purposes. Neither the *code official* nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material, product, system or building component required to allow inspection to validate compliance with this code.

R105.2 Required inspections. The *code official* or his or her designated agent, upon notification, shall make the inspections set forth in Sections R105.2.1 through R105.2.5.

R105.2.1 Footing and foundation inspection. Inspections associated with footings and foundations shall verify compliance with the code as to *R*-value, location, thickness, depth of burial and protection of insulation as required by the code and *approved* plans and specifications.

R105.2.2 Framing and rough-in inspection. Inspections at framing and rough-in shall be made before application of interior finish and shall verify compliance with the code as to: types of insulation and corresponding *R*-values and their correct location and proper installation; fenestration properties such as *U*-factor and SHGC and proper installation; air leakage controls as required by the code; and *approved* plans and specifications.

R105.2.3 Plumbing rough-in inspection. Inspections at plumbing rough-in shall verify compliance as required by the code and *approved* plans and specifications as to types of insulation and corresponding *R*-values and protection, and required controls. *Where*

Commented [CR57]: Allows Passive House as an above code program per statute.

Commented [CR58]: Requires information for solar-ready systems to be shown on the drawings.

the solar-ready zone is installed for solar water heating, inspections shall verify pathways for routing of plumbing from solar-ready zone to service water heating system.

Commented [CR59]: Requires inspections for solar-ready zone plumbing.

R105.2.4 Mechanical rough-in inspection. Inspections at mechanical rough-in shall verify compliance as required by the code and *approved* plans and specifications as to installed HVAC equipment type and size, required controls, system insulation and corresponding *R*-value, system air leakage control, programmable thermo- stats, dampers, whole-house ventilation, and minimum fan efficiency.

Exception: Systems serving multiple dwelling units shall be inspected in accordance with Section C105.2.4.

R105.2.5 Electrical rough-in inspection. Inspections at electrical rough-in shall verify compliance as required by the code and the *approved* plans and specifications as to the locations, distribution, and capacity of the electrical system. Where the solar-ready zone is installed for electricity generation, inspections shall verify conduit or pre-wiring from solar-ready zone to electrical panel.

Commented [CR60]: Requires electrical rough-in inspections including solar-ready zone provisions.

R105.2.6 Final inspection. The *building* shall have a final inspection and shall not be occupied until *approved*. The final inspection shall include verification of the installation of all required *building* systems, equipment and controls and their proper operation and the required number of high-efficacy lamps and fixtures.

R105.3 Reinspection. A *building* shall be reinspected where determined necessary by the *code official*.

R105.4 Approved inspection agencies. The *code official* is authorized to accept reports of third-party inspection agencies not affiliated with the *building* design or construction,

SECTION R202 GENERAL DEFINITIONS

APPROVED SOURCE. An independent person, firm or corporation, *approved* by the building official, who is competent and experienced in the application of engineering principles to materials, methods or systems analyses.

AUTOMOBILE PARKING SPACE. A space within a building or private or public parking lot, exclusive of driveways, ramps, columns, office and work areas, for the parking of an automobile.

DEMAND RESPONSE SIGNAL. A signal that indicates a price or a request to modify electricity consumption for a limited time period.

DEMAND RESPONSIVE CONTROL. A control capable of receiving and automatically responding to a *demand response signal*.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, and electric motorcycles, primarily powered by an electric motor that draws current from a building electrical service, *EVSE*, a rechargeable storage battery, a fuel cell, a photovoltaic array, or another source of electric current.

ELECTRIC VEHICLE READY SPACE (EV READY SPACE). An *automobile parking space* that is provided with a branch circuit and either an outlet, junction box or receptacle, that will support an installed *EVSE*.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). Equipment for plug-in power transfer including the ungrounded, grounded and equipment grounding conductors, and the electric vehicle connectors, attached plugs, personal protection system and all other fittings, devices, power outlets or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the *electric vehicle*.

SOLAR-READY ZONE. A section or sections of the roof or building overhang designated and reserved for the future installation of a solar photovoltaic or solar thermal system.

GAS HEAT PUMP SPACE HEATING SYSTEM. Gas heat pump space heating systems consist of an outdoor combustion unit and heat exchanger(s) inside the building. The outdoor combustion unit is installed outside the building envelope and uses the heat of combustion to drive a refrigeration cycle that pumps heat into the building. Annual fuel utilization efficiencies (AFUE) greater than 120% and 140% are achieved by pumping the heat of combustion and additional heat from the ambient air into the building. The heat is then distributed indoors via forced air hydronic air handler(s), via floors and other radiant systems, or through combinations of forced air and radiant systems.

RESIDENTIAL BUILDING. For this code, includes detached one and two family dwellings and townhouses as well as Group R-2, R-3 and R-4 buildings three stories or less in height above grade plane. Means a detached one-family or two-family dwelling or any building that is three stories or less in height above grade that contains multiple dwelling units, in which the occupants reside on a primarily permanent basis, such as a townhouse, a row house, an apartment house, a convent, a monastery, a rectory, a fraternity or

sorority house, a dormitory, and a rooming house; provided, however, that when applied to a building located within the boundaries of a municipality having a population of 1,000,000 or more, the term "RESIDENTIAL BUILDING" means a building containing one or more dwelling units, not exceeding four (4) stories above grade, where occupants are primarily permanent.

SECTION R401 GENERAL

R401.1 Scope. This chapter applies to residential buildings.

R401.2 Application. Residential buildings shall comply with Section R401.2.5 and either Sections R401.2.1, R401.2.2, or R401.2.3 or R401.2.4.

Exception: Additions, *alterations*, repairs and changes of occupancy to existing buildings complying with Chapter 5.

R401.2.1 Prescriptive Compliance Option. The Prescriptive Compliance Option requires compliance with Sections R401 through R404 and R408.

R401.2.2 Total Building Performance Option. The Total Building Performance Option requires compliance with Section R405.

R401.2.3 Energy Rating Index Option. The Energy Rating Index (ERI) Option requires compliance with Section R406.

R401.2.4 Tropical Climate Region Option. The Tropical Climate Region Option requires compliance with Section R407.

R401.2.5 Additional energy efficiency. This section establishes additional requirements applicable to all compliance approaches to achieve additional energy efficiency.

1. For buildings complying with Section R401.2.1, one of the additional efficiency package options shall be installed according to Section R408.2.
2. For buildings complying with Section R401.2.2, the building shall meet one of the following:
 - 2.1 One of the additional efficiency package options in Section R408.2 shall be installed without including such measures in the proposed design under Section R405; or
 - 2.2 The proposed design of the building under Section R405.2 shall have an annual energy cost that is less than or equal to 95 percent of the annual energy cost of the standard reference design.
 - 2.3 For buildings complying with the Energy Rating Index alternative Section R401.2.3, the Energy Rating Index value shall be at least 5 percent less than the Energy Rating Index target specified in Table R406.5.

The option selected for compliance shall be identified in the certificate required by Section R401.3.

R401.3 Certificate. A permanent certificate shall be *

completed by the builder or other *approved* party and posted on a wall in the space where the furnace is located, a utility room or an *approved* location inside the *building*. Where located on an electrical panel, the certificate shall not cover or obstruct the visibility of the circuit directory *label*, service disconnect *label* or other required labels. The certificate shall indicate the following:

1. The predominant *R*-values of insulation installed in or on ceilings, roofs, walls, foundation components such as slabs, *basement walls*, *crawl space walls* and floors and ducts outside *conditioned spaces*.
2. *U*-factors of fenestration and the *solar heat gain coefficient* (SHGC) of fenestration. Where there is more than one value for any component of the building envelope, the certificate shall indicate both the value covering the largest area and the area weighted average value if available.
3. The results from any required duct system and building envelope air leakage testing performed on the building.
4. The types, sizes and efficiencies of heating, cooling and service water-heating equipment. Where a gas-fired unvented room heater, electric furnace or baseboard electric heater is installed in the residence, the certificate shall indicate "gas-fired unvented room heater," "electric furnace" or "baseboard electric heater," as appropriate. An efficiency shall not be indicated for gas-fired unvented room heaters, electric furnaces and electric baseboard heaters.
5. Where on-site *photovoltaic panel* systems have been installed, the array capacity, inverter efficiency, panel tilt and orientation shall be noted on the certificate.
6. For buildings where an Energy Rating Index score is determined in accordance with Section R406, the Energy Rating Index score, both with and without any on-site generation, shall be listed on the certificate.
7. The code edition under which the structure was permitted, and the compliance path used; and where applicable, the additional efficiency measures selected for compliance with R408.

Commented [CR61]: Reflects a change from using Additional Energy Efficiency (R401.2.5) in the IECC to using a Credit Table approach (R408) to ensure target site energy indexes are being met.

Commented [CR62]: Adds additional efficiency measures to the Certificate.

SECTION R403 SYSTEMS

Commented [CR63]: Adds requirements for Demand Responsive Thermostats for space heating and water heating.

R403.1 Controls. Not less than one thermostat shall be provided for each separate heating and cooling system. [The primary heating or cooling system serving the dwelling unit shall comply with Sections R403.1.1, R403.1.2, and R403.1.3.](#)

R403.1.1 Programmable thermostat. The thermostat controlling the primary heating or cooling system of the *dwelling unit* shall be capable of controlling the heating and cooling system on a daily schedule to maintain different temperature set points at different times of day and different days of the week. This thermostat shall include the capability to set back or temporarily operate the system to maintain *zone* temperatures of not less than 55°F (13°C) to not greater than 85°F (29°C). The thermostat shall be programmed initially by the manufacturer with a heating temperature setpoint of not greater than 70°F (21°C) and a cooling temperature setpoint of not less than 78°F (26°C).

R403.1.2 Heat pump supplementary heat. Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

R403.1.3 Demand responsive thermostat. [The thermostat shall be provided with a demand responsive control capable of communicating with the Virtual End Node \(VEN\) using a wired or wireless bi-directional communication pathway that provides the homeowner the ability to voluntarily participate in utility demand response programs, where available. The thermostat shall be capable of executing the following actions in response to a demand response signal:](#)

1. Automatically increasing the zone operating cooling set point by the following values: 1°F (0.5°C), 2°F (1°C), 3°F (1.5°C), and 4°F (2°C).
2. Automatically decreasing the zone operating heating set point by the following values: 1°F (0.5°C), 2°F (1°C), 3°F (1.5°C), and 4°F (2°C).

[Thermostats controlling single stage HVAC systems shall comply with Section R403.1.2.1. Thermostats controlling variable capacity systems shall comply with Section R403.1.2.2. Thermostats controlling multi-stage HVAC systems shall comply with either Section R403.1.2.1 or R403.1.2.2. Where a demand response signal is not available the thermostat shall be capable of performing all other functions.](#)

Exception: Assisted living facilities.

R403.1.3.1 Single stage HVAC system controls. Thermostats controlling single stage HVAC systems shall be provided with a demand responsive control that complies with one of the following:

1. Certified OpenADR 2.0a VEN, as specified under Clause 11, Conformance
2. Certified OpenADR 2.0b VEN, as specified under Clause 11, Conformance
3. Certified by the manufacturer as being capable of responding to a *demand response signal* from a certified OpenADR 2.0b VEN by automatically implementing the control functions requested by the VEN for the equipment it controls
4. IEC 62746-10-1
5. The communication protocol required by a controlling entity, such as a utility or service provider, to participate in an automated demand response program
6. The physical configuration and communication protocol of CTA 2045-A or CTA-2045-B

R403.1.3.2 Variable capacity and two stage HVAC system controls. Thermostats controlling variable capacity and two stage HVAC system shall be provided with a *demand responsive control* that complies with the communication and performance requirements of AHRI 1380.

R403.5.4 Demand responsive water heating Electric storage water heaters with a rated water storage volume of 40 gallons (150L) to 120 gallons (450L) and a nameplate input rating equal to or less than 12kW shall be provided with demand responsive controls in accordance with Table R403.5.4 or another equivalent approved standard.

Exceptions:

1. Water heaters that are capable of delivering water at a temperature of 180°F (82°C) or greater.
2. Water heaters that comply with Section IV, Part HLW or Section X of the ASME Boiler and Pressure Vessel Code.
3. Water heaters that use 3-phase electric power

TABLE R403.5.4
DEMAND RESPONSIVE CONTROLS FOR WATER HEATING

Equipment Type	Controls	
	Manufactured Before 7/1/2025	Manufactured On or After 7/1/ 2025

Electric storage water heaters	AHRI Standard 1430-2022 (I-P) or ANSI/CTA-2045-B Level 1 and also capable of initiating water heating to meet the temperature set point in response to a demand response signal.	AHRI Standard 1430-2022 (I-P)
--	--	---

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

R404.4 Electric Vehicle Power Transfer Infrastructure. New automobile parking spaces for one- and two-family dwellings and townhouses shall be provided in accordance with this section. All other new residential parking facilities shall be provided with electric vehicle power transfer infrastructure in accordance with Section C405.14 of the Illinois Commercial Stretch Energy Code.

R404.4.1 Quantity. Each dwelling unit with a designated attached or detached garage or other onsite private parking provided adjacent to the dwelling unit shall be provided with one EV ready space.

R404.4.2 EV Ready Spaces. Each branch circuit serving EV ready spaces used to comply with Section R404.4 shall comply with all of the following:

1. Terminate at an outlet or enclosure located within 3 feet (914 mm) of each EV ready space it serves.
2. Be sized for a minimum EV charging load of 7.2 kVA.
3. The panelboard or other electrical distribution equipment directory shall designate the branch circuit as "For electric vehicle supply equipment (EVSE)" and the outlet or enclosure shall be marked "For electric vehicle supply equipment (EVSE)."
4. Where a circuit is shared or managed, it shall be in accordance with NFPA 70.

Commented [CR64]: Requires an EV Ready space in new dwelling units.

R404.5 Electric readiness. Systems using fossil fuel; water heaters, household clothes dryers, conventional cooking tops, conventional ovens and space heating equipment shall comply with the requirements of Sections R404.5.1 through R404.5.5

Commented [CR65]: Requires electric readiness for appliances even if fossil fuel appliances are used.

R404.5.1 Cooking products. An individual branch circuit outlet with a rating not less than 240-volts, 40-amperes shall be installed, and terminate within three feet (304 mm) of conventional cooking tops, conventional ovens or cooking products combining both.

Exception: Cooking products not installed in an individual dwelling unit.

R404.5.2 Household Clothes Dryers. An individual branch circuit outlet with a rating not less than 240-volts, 30-amperes shall be installed, and terminate within three feet (304 mm) of each household clothes dryer.

Exception: Clothes dryers that serve more than one dwelling unit and are located outside of a dwelling unit.

R404.5.3 Water heaters. Locations of fossil fuel water heaters shall comply with all of the following:

1. An individual branch circuit outlet with a rating not less than either 240-volts, 30-amperes shall be installed, and terminate within three feet (304 mm) of each fossil fuel water heater.
2. The space for containing the future water heater shall have a height of not less than 7 ft (2 m), a width of not less than 3 ft (1 m), a depth of not less than 3ft (1 m) and with a volume of not less than 700 ft³ (20 m³).

Exception:

1. Water heaters in a centralized water heating system serving multiple dwelling units in an R-2 occupancy which comply with Section C405.17.
2. Where the space containing the water heater provides for air circulation sufficient for the operation of a heat pump water heater, the minimum room volume shall not be required.

R404.5.4 Combustion space heating. A designated exterior location(s) in accordance with the following:

1. Natural drainage for condensate from cooling equipment heat pump operation or a condensate drain located within 3 feet (914 mm), and
2. A dedicated branch circuit in compliance with IRC Section E3702.11 based on heat pump space heating equipment sized in accordance with R403.7 and terminating within 3 feet (914 mm) of the location with no obstructions. Both ends of the branch circuit shall be labeled "For Future Heat Pump Space Heater."

R404.5.5 Electrification-ready circuits. The unused conductors required by Sections R404.5.1 through R404.5.4 shall be labeled with the word "spare." Space shall be reserved in the electrical panel in which the branch circuit originates for the installation of an overcurrent device. Capacity for the circuits required by Sections R404.5.1 through R404.5.4 shall be included in the load calculations of the original installation.

R404.6 Renewable energy infrastructure. The building shall comply with the requirements of R404.6.1 or R404.6.2.

Commented [CR66]: Requires electrical provisions for future solar systems.

R404.6.1 One- and two- family dwellings and townhouses. One- and two-family dwellings and townhouses shall comply with Sections R404.6.1.1 through R404.6.1.4.

Exceptions:

1. A dwelling unit with a permanently installed on-site renewable energy system.
2. A dwelling unit with a solar-ready zone area that is less than 500 square feet (46 m^2) of roof area oriented between 110 degrees and 270 degrees of true north.
3. A dwelling unit with less than 500 square feet (46 m^2) of roof area oriented between 110 degrees and 270 degrees of true north.
4. Dwelling units where 50 percent of the solar-ready area is shaded from direct-beam sunlight by natural objects or by structures that are not part of the building for more than 2500 annual hours between 8:00 a.m. and 4:00 p.m.

R404.6.1.1 Solar-ready zone area. The total area of the solar-ready zone shall not be less than 250 square feet (23.2 m^2) and shall be composed of areas not less than 5.5 feet (1676 mm) in one direction and not less than 80 square feet (7.4 m^2) exclusive of access or set back areas as required by the *International Residential Code*.

Exception: Dwelling units in townhouses three stories or less in height above grade plane and with a total floor area less than or equal to 2,000 square feet (186 m^2) per dwelling shall be permitted to have a solar-ready zone area of not less than 150 square feet (14 m^2).

R404.6.1.2 Obstructions. Solar-ready zones shall be free from obstructions, including but not limited to vents, chimneys, and roof-mounted equipment.

R404.6.1.3 Electrical service reserved space. The main electrical service panel shall have a reserved space for a dual pole circuit breaker and shall be labeled "For Future Solar Electric." The reserved space shall be at the opposite (load) end of the busbar from the primary energy source.

R404.6.1.4 Electrical interconnection. An electrical junction box shall be installed within 24 inches (610 mm) of the main electrical service panel and shall be connected to a capped roof penetration sleeve or a location in the attic that is within 3 feet (914 mm) of the solar-ready zone by a minimum 1 inch (25 mm) nonflexible metallic conduit or permanently installed wire as approved by the code official. Where the interconnection terminates in the attic, location shall be no less than 12 inches (35 mm) above ceiling insulation. Both ends of the interconnection shall be labeled "For Future Solar Electric".

R404.6.2 Group R occupancies. Buildings in Group R-2, R-3 and R-4 shall comply with Section C405.15 of the Illinois Commercial Stretch Energy Code.

SECTION R405
TOTAL BUILDING PERFORMANCE

R405.1 Scope. This section establishes criteria for compliance using total building performance analysis. Such analysis shall include heating, cooling, mechanical ventilation and service water-heating energy only.

R405.2 Performance-based compliance. Compliance based on total building performance requires that a *proposed design* meets all of the following:

1. The requirements of the sections indicated within Table R405.2.
2. The proposed total building thermal envelope UA, which is the sum of the U-factor times assembly area, shall be greater less than or equal to the building thermal envelope UA using the prescriptive U-factors from Table R402.1.2 multiplied by 1.10 in accordance with Equation 4-1, levels of efficiency and solar heat gain coefficients in Table R402.1.1 or R402.1.3 of the 2009 International Energy Conservation Code;
UA_{Proposed design} < 1.10 x UA_{Prescriptive reference design} (Equation 4-1)
3. An The site energy use annual energy cost of the proposed design that is shall be less than or equal to 71 percent the annual energy cost of the site energy use of the standard reference design. Energy prices shall be taken from a source approved by the code official, such as the Department of Energy, Energy Information Administration's State Energy Data System Prices and Expenditures reports. Code officials shall be permitted to require time-of-use pricing in energy cost calculations.

Exception: The energy use based on source energy expressed in Btu or Btu per square foot of conditioned floor area shall be permitted to be substituted for the energy cost. The source energy multiplier for electricity shall be 3.16. The source energy multiplier for fuels other than electricity shall be 1.1.

Commented [CR67]: Section is revised from an "energy cost" metric to a "site energy use" metric per statute and increases the stringency of the proposed design to meet the site energy indexes in the statute.

TABLE R405.2
REQUIREMENTS FOR TOTAL BUILDING PERFORMANCE

SECTION ^a	TITLE
General	
R401.2.5	Additional energy efficiency
R401.3	Certificate
Building Thermal Envelope	
R402.1.1	Vapor retarder
R402.2.3	Eave baffle
R402.2.4.1	Access hatches and doors
R402.2.10.1	Crawl space wall insulation installations
R402.4.1.1	Installation
R402.4.1.2	Testing
R402.5	Maximum fenestration <i>U</i> -factor and SHGC
Mechanical	
R403.1	Controls
R403.3, including R403.3.1, except Sections R403.3.2, R403.3.3 and R403.3.6	Ducts
R403.4	Mechanical system piping insulation
R403.5.1	Heated water circulation and temperature maintenance systems
R403.5.3	Drain water heat recovery units
R403.6	Mechanical ventilation
R403.7	Equipment sizing and efficiency rating
R403.8	Systems serving multiple dwelling units
R403.9	Snow melt and ice systems
R403.10	Energy consumption of pools and spas
R403.11	Portable spas
R403.12	Residential pools and permanent residential spas
Electrical Power and Lighting Systems	
R404.1	Lighting equipment
R404.2	Interior lighting controls
R404.4	Electric Vehicle Power Transfer Infrastructure
R404.5	Electric readiness
R404.6	Renewable energy infrastructure

a. Reference to a code section includes all the relative subsections except as indicated in the table.

Commented [CR68]: Adds additional requirements to the Total Building Performance compliance option to be consistent with other compliance options.

SECTION R406
ENERGY RATING INDEX COMPLIANCE ALTERNATIVE

R406.1 Scope. This section establishes criteria for compliance using an Energy Rating Index (ERI) analysis.

R406.2 ERI compliance. Compliance based on the ERI requires that the rated design meets all of the following:

1. The requirements of the sections indicated within Table R406.2.
2. Maximum ERI of Table R406.5.

TABLE R406.2
REQUIREMENTS FOR ENERGY RATING INDEX

SECTION ^a	TITLE
General	
R401.2.5	Additional efficiency packages
R401.3	Certificate
Building Thermal Envelope	
R402.1.1	Vapor retarder
R402.2.3	Eave baffle
R402.2.4.1	Access hatches and doors
R402.2.10.1	Crawl space wall insulation installation
R402.4.1.1	Installation
R402.4.1.2	Testing
Mechanical	
R403.1	Controls
R403.3 except Sections R403.3.2, R403.3.3 and R403.3.6	Ducts
R403.4	Mechanical system piping insulation
R403.5.1	Heated water calculation and temperature maintenance systems
R403.5.3	Drain water heat recovery units
R403.6	Mechanical ventilation
R403.7	Equipment sizing and efficiency rating
R403.8	Systems serving multiple dwelling units
R403.9	Snow melt and ice systems
R403.10	Energy consumption of pools and spas
R403.11	Portable spas
R403.12	Residential pools and permanent residential spas
Electrical Power and Lighting Systems	
R404.1	Lighting equipment
R404.2	Interior lighting controls
R404.4	Electric Vehicle Power Transfer Infrastructure
R404.5	Electric readiness
R404.6	Renewable energy infrastructure

a. Reference to a code section includes all the relative subsections except as indicated in the table.

R406.3 Building thermal envelope. Building and portions thereof shall comply with Section R406.3.1 or R406.3.2.

Commented [CR69]: Several changes to the ERI compliance method including converting from an "energy cost" metric to a "site energy use" metric, electric readiness provisions similar to other compliance methods, and mechanical ventilation rates are aligned with ANSI standards.

R406.3.1 On-site renewables are not included. Building thermal envelope. Where on-site renewable energy is not included for compliance using the ERI analysis of Section R406.4, the proposed total building thermal envelope UA, which is sum of U -factor times assembly area, shall be less than or equal to the building thermal envelope UA using the prescriptive U -factors from Table R402.1.2 multiplied by 1.105 in accordance with Equation 4-24. The area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through 3 shall be 0.30.

UAProposed design $\leq 1.105 \times$ UAPrescriptive reference design
(Equation 4-24)

R406.3.2 On-site renewables are included. Where on-site renewable energy is included for compliance using the ERI analysis of Section R406.4, the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table R402.1.2 or Table R402.1.4 of the 2018 *International Energy Conservation Code*.

R406.4 Energy Rating Index. The Energy Rating Index (ERI) shall be determined in accordance with ANSI/RESNET/ICC 301 The mechanical ventilation rates used for the purpose of determining the ERI shall not be construed to establish minimum ventilation requirements for compliance with this code except for buildings covered by the *International Residential Code*, the ERI reference design ventilation rate shall be in accordance with Equation 4-2.

$$\text{Ventilation rate, CFM} = (0.01 \times \text{total square foot area of house}) + [7.5 \times (\text{number of bedrooms} + 1)]$$

Energy used to recharge or refuel a vehicle used for transportation on roads that are not on the building site shall not be included in the ERI reference design or the rated design. For compliance purposes, any reduction in energy use of the rated design associated with on-site renewable energy shall not exceed 5 percent of the total energy use.

R406.5 ERI-based compliance. Compliance based on an ERI analysis requires that the rated proposed design and confirmed built dwelling be shown to have an ERI less than or equal to the appropriate value indicated in Table R406.5 when compared to the ERI reference design.

TABLE R406.5
MAXIMUM ENERGY RATING INDEX

Climate Zone	Energy Rating Index <u>Without Combustion Equipment</u> ^a	Energy Rating Index <u>With Combustion Equipment</u> ^b
4	54	51
5	55	50

a. Any building that contains no combustion equipment.

b. Any building that contains combustion equipment.

SECTION R408
ADDITIONAL EFFICIENCY REQUIREMENTS PACKAGE OPTIONS

R408.1 Scope. This section establishes additional efficiency requirements package options to achieve additional energy efficiency in accordance with Section R401.2.15. Buildings shall comply with either Section R408.2 or Section R408.3

Commented [CR70]: Section R408 has many changes primarily intended to ensure the proposed building meets the site energy index per statute. Heat pumps are the preferred method of space and water heating.

R408.2 Heat pump equipment and air tightness option. Buildings shall comply with all of the following:

1. Heating and cooling equipment shall be electric heat pump equipment. In Climate Zone 5A, air-source heat pumps shall meet the following requirements for cold climate heat pumps:
 - 1.1. COP at 5°F (-15°C) > 1.75
 - 1.2. Percent of heating capacity at 5°F (-15°C) $\geq 70\%$ of that at 47°F (8.34°C)
2. Water heating equipment shall be a heat pump water heater.
3. The measured air leakage shall be less than or equal to 2.0 ACH50 with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) with a sensible heat recovery efficiency (SRE) no less than 70 percent at 32°F (0°C) at an airflow greater than or equal to design airflow. The SRE shall be determined from a listed value or from interpolation of listed values. Construction documents shall include documentation of the SRE.

R408.32 Additional energy efficiency credit requirements package options. Additional efficiency package options for compliance with Section R401.2.1 are set forth in Sections R408.2.1 through R408.2.5. measures shall be selected from Table R408.3 that meet or

Commented [CR71]: 30 Credits are required to comply with the Code. Many options are listed to give owners flexibility in how to get 29 credits.

exceed a total of 30 credits. Five additional credits shall be selected for dwelling units with greater than 5,000 square feet (465 m²) of living space floor area located above grade plane. Each measure selected shall meet the relevant subsections of Section R408 and receive credit as specified in Table R408.3 for the specific Climate Zone. Interpolation of credits between measures shall not be permitted.

TABLE R408.3
CREDITS FOR ADDITIONAL ENERGY EFFICIENCY

<u>Measure Number</u>	<u>Measure Description</u>	<u>Credit Value</u>	
		<u>CZ 4</u>	<u>CZ 5</u>
<u>R408.3.1.1 (1)</u>	<u>≥ 2.5% reduction in total UA</u>	<u>1</u>	<u>1</u>
<u>R408.2.1.1 (2)</u>	<u>≥ 5% reduction in total UA</u>	<u>2</u>	<u>3</u>
<u>R408.3.1.1 (3)</u>	<u>> 7.5% reduction in total UA</u>	<u>2</u>	<u>3</u>
<u>R408.3.1.2</u>	<u>0.22 U-factor windows</u>	<u>3</u>	<u>4</u>
<u>R408.3.2 (1)</u>	<u>High performance cooling system option 1</u>	<u>3</u>	<u>3</u>
<u>R408.3.2 (2)</u>	<u>High performance cooling system option 2</u>	<u>3</u>	<u>2</u>
<u>R408.3.2 (3)</u>	<u>High performance gas furnace option 1</u>	<u>5</u>	<u>7</u>
<u>R408.3.2(4)</u>	<u>High performance gas furnace option 2</u>	<u>4</u>	<u>5</u>
<u>R408.3.2(5)</u>	<u>High performance electric heat pump system option 1</u>	<u>21</u>	<u>31</u>
<u>R408.3.2 (6)</u>	<u>High performance electric heat pump system option 2</u>	<u>22</u>	<u>32</u>
<u>R408.3.2 (7)</u>	<u>Ground source heat pump</u>	<u>23</u>	<u>33</u>
<u>R408.3.2 (8)</u>	<u>High performance gas heat pump space heating system option 1</u>	<u>8</u>	<u>11</u>
<u>R408.3.2 (9)</u>	<u>High performance gas heat pump space heating system option 2</u>	<u>11</u>	<u>16</u>
<u>R408.3.3 (1)</u>	<u>Fossil fuel service water heating system</u>	<u>3</u>	<u>2</u>
<u>R408.3.3 (2)</u>	<u>High performance heat pump water heating system</u>	<u>8</u>	<u>6</u>
<u>R408.3.3 (3)</u>	<u>Solar hot water heating system</u>	<u>6</u>	<u>6</u>
<u>R408.3.3 (4)</u>	<u>Compact hot water distribution</u>	<u>2</u>	<u>2</u>
<u>R408.3.4 (1)</u>	<u>More efficient distribution system</u>	<u>10</u>	<u>12</u>
<u>R408.3.4 (2)</u>	<u>100% of ducts in conditioned space</u>	<u>12</u>	<u>15</u>
<u>R408.3.4 (3)</u>	<u>Reduced total duct leakage</u>	<u>1</u>	<u>1</u>
<u>R408.3.5 (1)</u>	<u>2 ACH50 air leakage rate with ERV or HRV installed</u>	<u>10</u>	<u>13</u>
<u>R408.3.5 (2)</u>	<u>2 ACH50 air leakage rate with balanced ventilation</u>	<u>4</u>	<u>5</u>
<u>R408.3.5 (3)</u>	<u>1.5 ACH50 air leakage rate with ERV or HRV installed</u>	<u>12</u>	<u>15</u>
<u>R408.3.5 (4)</u>	<u>1 ACH50 air leakage rate with ERV or HRV installed</u>	<u>14</u>	<u>17</u>
<u>R408.3.6</u>	<u>Energy Efficient Appliances</u>	<u>1</u>	<u>1</u>

R408.3.2.1 Enhanced envelope performance option. The total *building thermal envelope* UA, the sum of *U* factor times assembly area, shall be less than or equal to 95 percent of the total UA resulting from multiplying the *U* factors in Table R402.1.2 by the same assembly area as in the proposed building. The UA calculation shall be performed in accordance with Section R402.1.5. The area-weighted average SHGC of all glazed fenestration shall be less than or equal to 95 percent of the maximum glazed fenestration SHGC in Table R402.1.2. The building thermal envelope shall meet the requirements of Section R408.3.1.1 or R408.3.1.2.

R408.3.1.1 Enhanced envelope performance UA. The proposed total building thermal envelope UA shall be calculated in accordance with Section R402.1.5 and shall meet one of the following:

1. Not less than 2.5 percent of the total UA of the building thermal envelope.
2. Not less than 5 percent of the total UA of the building thermal envelope.
3. Not less than 7.5 percent of the total UA of the building thermal envelope.

R408.3.1.2 Improved fenestration. Vertical fenestration shall meet a U-factor equal to or less than 0.22.

R408.3.2.2 More efficient HVAC equipment performance option. Heating and cooling *equipment* shall meet one of the following efficiencies:

Options:

1. Greater than or equal to 95 AFUE natural gas furnace and 16 SEER air conditioner.
2. Greater than or equal to 10 HSPF/16 SEER air source heat pump.
3. Greater than or equal to 3.5 COP ground source heat pump.

1. Greater than or equal to 6.9 SEER2 and 13.4 EER2 air conditioner.
2. Greater than or equal to 15.2 SEER2 and 10 EER2 air conditioner.
3. Greater than or equal to 96 AFUE natural gas furnace.
4. Greater than or equal to 92 AFUE natural gas furnace.
5. Greater than or equal to 8.1 HSPF2/16 SEER2 electric air source heat pump.
6. Greater than or equal to 8.5 HSPF2/16.9 SEER2 electric air source heat pump.
7. Greater than or equal to 3.5 COP ground source heat pump.
8. Greater than or equal to 120 AFUE gas heat pump space heating system. The gas heat pump space heating system shall not be configured to provide cooling.
9. Greater than or equal to 140 AFUE gas heat pump space heating system. The gas heat pump space heating system shall not be configured to provide cooling.

For multiple cooling systems, all systems shall meet or exceed the minimum efficiency requirements in this section and shall be sized to serve 100 percent of the cooling design load. For multiple heating systems, all systems shall meet or exceed the minimum efficiency requirements in this section and shall be sized to serve 100 percent of the heating design load. In Climate Zone 5A, air-source heat pumps shall meet the following requirements for cold climate heat pumps:

1. COP at 5°F (-15°C) ≥ 1.75
2. Percent of heating capacity at 5°F (-15°C) ≥ 70% of that at 47°F (8.34°C)

R408.3.2.3 Reduced energy use in service water-heating option. The hot water system shall meet one of the following efficiencies:

1. Greater than or equal to 0.82 EF fossil fuel service water-heating system.
2. Greater than or equal to 2.90 UEF electric service water-heating system.
3. Greater than or equal to 0.4 solar fraction solar water-heating system.
4. Compact hot water distribution. For Compact Hot Water Distribution system credit, the volume shall store not more than 16 ounces of water in the nearest source of heated water and the termination of the fixture supply pipe when calculated using section R408.3.3.1 and documented in compliance with Section R408.3.3.2.

R408.3.3.1 Water volume determination. The water volume in the piping shall be calculated in accordance with this section. Water heaters, circulating water systems and heat trace temperature maintenance systems shall be considered to be sources of heated water. The volume shall be the sum of the internal volumes of pipe, fittings, valves, meters and manifolds between the nearest source of heated water and the termination of the fixture supply pipe. The volume in the piping shall be determined from Table R408.3.3.1. The volume contained within fixture shutoff valves, within flexible water supply connectors to a fixture fitting and within a fixture fitting shall not be included in the water volume determination. Where heated water is supplied by a recirculating system or heat-traced piping, the volume shall include the portion of the fitting on the branch pipe that supplies water to the fixture.

TABLE R408.3.3.1
INTERNAL VOLUME OF VARIOUS WATER DISTRIBUTION TUBING
OUNCES OF WATER PER FOOT OF TUBE

<u>NOMINAL SIZE (inches)</u>	<u>COPPER TYPE M</u>	<u>COPPER TYPE L</u>	<u>COPPER TYPE K</u>	<u>CPVC CTS SDR 11</u>	<u>CPV C SCH 40</u>	<u>CPV C SCH 80</u>	<u>PE- RT SDR 9</u>	<u>COMPOSITE ASTM F1281</u>	<u>PEX CTS SDR 9</u>
<u>3/8</u>	<u>1.06</u>	<u>0.97</u>	<u>0.84</u>	<u>N/A</u>	<u>1.17</u>	<u>-</u>	<u>0.64</u>	<u>0.63</u>	<u>0.64</u>
<u>1/2</u>	<u>1.69</u>	<u>1.55</u>	<u>1.45</u>	<u>1.25</u>	<u>1.89</u>	<u>1.46</u>	<u>1.18</u>	<u>1.31</u>	<u>1.18</u>
<u>3/4</u>	<u>3.43</u>	<u>3.22</u>	<u>2.90</u>	<u>2.67</u>	<u>3.38</u>	<u>2.74</u>	<u>2.35</u>	<u>3.39</u>	<u>2.35</u>
<u>1</u>	<u>5.81</u>	<u>5.49</u>	<u>5.19</u>	<u>4.43</u>	<u>5.53</u>	<u>4.57</u>	<u>3.91</u>	<u>5.56</u>	<u>3.91</u>
<u>1 1/4</u>	<u>8.70</u>	<u>8.36</u>	<u>8.09</u>	<u>6.61</u>	<u>9.66</u>	<u>8.24</u>	<u>5.81</u>	<u>8.49</u>	<u>5.81</u>
<u>1 1/2</u>	<u>12.18</u>	<u>11.83</u>	<u>11.45</u>	<u>9.22</u>	<u>13.20</u>	<u>11.38</u>	<u>8.09</u>	<u>13.88</u>	<u>8.09</u>
<u>2</u>	<u>21.08</u>	<u>20.58</u>	<u>20.04</u>	<u>15.79</u>	<u>21.88</u>	<u>19.11</u>	<u>13.86</u>	<u>21.48</u>	<u>13.86</u>

For SI: 1 foot = 304.8 mm, 1 inch = 25.4 mm, 1 liquid ounce = 0.030L, 1 oz/ft² = 305.15 g/m².

N/A = Not available

R408.3.3.2 Water volume documentation. Where compliance with Section R408.3.3(5) is required, construction documentation or final field inspection shall verify that the compact hot water distribution system meets the prescribed limit in Section R408.3.3(5) with one of the following:

1. Referencing ounces of water per foot of tube on plans as per Table R408.3.3.1.
2. Referencing ounces of water per foot of tube installed as per Table R408.3.3.1.
3. In accordance with Department of Energy's Zero Energy Ready Home National Specification (Rev. 07 or higher) footnote on Hot water delivery systems.

R408.32.4 More efficient duct thermal distribution system option. The thermal distribution system shall meet one of the following efficiencies:

1. 100 percent of ducts and air handlers located entirely within the building thermal envelope.
- 2.1. 100 percent of ductless thermal distribution system or hydronic thermal distribution system located completely inside the building thermal envelope.
- 3.2. 100 percent of duct thermal distribution system located in conditioned space as defined by Section R403.3.2.
3. When ducts are located outside conditioned space, the total leakage of the ducts, measured in accordance with R403.3.5, shall be in accordance with one of the following:
 - 3.1. Where the air handler is installed at the time of testing, 2.0 cubic feet per minute (0.94 L/s) per 100 square feet (9.29 m²) of conditioned floor area.
 - 3.2. Where the air handler is not installed at the time of testing, 1.75 cubic feet per minute (0.83 L/s) per 100 square feet (9.29 m²) of conditioned floor area.

R408.32.5 Improved air sealing and efficient ventilation system option. The measured air leakage rate shall be less than or equal to 3.0 ACH50, with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) installed. Minimum HRV and ERV requirements, measured at the lowest tested net supply airflow, shall be greater than or equal to 75 percent Sensible Recovery Efficiency (SRE), less than or equal to 1.1 cubic feet per minute per watt (0.03 m³/min/watt) and shall not use recirculation as a defrost strategy. In addition, the ERV shall be greater than or equal to 50 percent Latent Recovery/Moisture Transfer (LRMT). The measured air leakage rate shall be one of the following:

1. Less than or equal to 2.0 ACH50, with either an Energy Recovery Ventilator (ERV) or Heat Recovery Ventilator (HRV) installed.
2. Less than or equal to 2.0 ACH50, with balanced ventilation as defined in Section 202 of the 2021 International Mechanical Code.
3. Less than or equal to 1.5 ACH50, with either an ERV or HRV installed.
4. Less than or equal to 1.0 ACH50, with either an ERV or HRV installed.

Minimum HRV and ERV requirements, measured at the lowest tested net supply airflow, shall be greater than or equal to 75 percent Sensible Recovery Efficiency (SRE), less than or equal to 1.1 cubic feet per minute per watt (0.03 m³/min/watt)

and shall not use recirculation as a defrost strategy. In addition, the ERV shall be greater than or equal to 50 percent Latent Recovery/ Moisture Transfer (LRMT).

R408.3.6 Energy efficient appliances. Appliances installed in a dwelling unit shall meet the product energy efficiency specifications listed in Table R408.3.6, or equivalent energy efficiency specifications. The three appliance types from Table R408.3.6 shall be installed for compliance with this section.

TABLE R408.3.6 MINIMUM EFFICIENCY REQUIREMENTS: APPLIANCES

Appliance	Efficiency Improvement	Test Procedure
Refrigerator	Maximum Annual Energy Consumption (AEC) No greater than 620 kWh/yr	10 CFR 430, Subpart B, Appendix A
Dishwasher	Maximum Annual Energy Consumption (AEC) No greater than 270 kWh/yr	10 CFR 430, Subpart B, Appendix C1
Clothes Washer and Clothes Dryer	Maximum Annual Energy Consumption (AEC) for Clothes Washer ^a No greater than 130 kWh/yr Integrated Modified Energy Factor (IMEF) > 1.84 cu.ft/kWh/cycle	10 CFR 430 Subpart B, Appendix J2 and 10 CFR 430, Subpart B, Appendices D1 and D2

a. Credit for Clothes Washer and Clothes Dryer pair is based on Clothes Washer efficiency.

CHAPTER 6[RE]
REFERENCED STANDARDS

<u>ASME</u>	American Society of Mechanical Engineers Two Park Avenue New York, NY 10016-5990
<u>BPVC</u>	<u>Boiler and Pressure Vessel Code</u>
<u>CTA</u>	Consumer Technology Association Technology & Standards Department 1919 S Eads Street Arlington VA 22202
<u>ANSI/CTA-2045-B – 2018</u>	<u>Modular Communications Interface for Energy Management</u>
<u>ANSI/CTA-2045-A – 2018</u>	<u>Modular Communications Interface for Energy Management</u>
<u>IEC</u>	IEC Regional Centre for North America 446 Main Street 16th Floor Worcester MA 01608
<u>IECIEC Regional Centre for North America.</u>	IEC 62746-10-1 - 2018: Systems interface between customer energy management system and the power management system - Part 10-1: Open automated demand response
<u>OpenADR</u>	OpenADR Alliance 111 Deerwood Road, Suite 200 San Ramon CA 94583

OpenADR OpenADR Alliance	OpenADR 2.0a and 2.0b – 2019: Profile Specification Distributed Energy Resources
AHRI	Air-Conditioning, Heating, & Refrigeration Institute 2111 Wilson Blvd, Suite 500 Arlington VA 22201
AHRI 1380-2019 AHRI 1430-2022 (I-P)	Demand Response through Variable Capacity HVAC Systems in Residential and Small Commercial Applications Demand Flexible Electric Storage Water Heaters

SECTION R502 ADDITIONS

R502.3 Prescriptive compliance. *Additions* shall comply with Sections R502.3.1 through R502.3.5.

R502.3.1 Building envelope. New *building envelope* assemblies that are part of the *addition* shall comply with Sections R402.1, R402.2, R402.3.1 through R402.3.5, and R402.4.

Exception: New envelope assemblies are exempt from the requirements of Section R402.4.1.2.

R502.3.2 Heating and cooling systems. HVAC ducts newly installed as part of an *addition* shall comply with Section R403.

Exception: Where ducts from an existing heating and cooling system are extended to an *addition*.

R502.3.3 Service hot water systems. New service hot water systems that are part of the *addition* shall comply with Section R403.5.

R502.3.4 Lighting. New lighting systems that are part of the *addition* shall comply with Section R404.1.

R502.3.5 Additional Efficiency Requirements. *Additions* shall comply with sufficient measures from Table R408.3 to achieve not less than 10 credits. Alterations to the existing building that are not part of the *addition*, but permitted with the *addition*, shall be permitted to be used to achieve this requirement.

Exceptions:

1. Additions that increase the building's total conditioned floor area by less than 25 percent.
2. Additions that do not include the addition or replacement of equipment covered in Sections R403.5 or R403.7.
3. Additions that do not contain conditioned space.
4. Where the addition alone or the existing building and addition together comply with Section R405 or R406.

Commented [CR72]: Additions required to achieve more credits to ensure compliance with the site energy index per statute.

SECTION R503 ALTERATIONS

R503.1.1.2 Roof Replacement. Insulation shall comply with Section R402.1. Alternatively, where limiting conditions prevent compliance with Section R402.1, an *approved* design that minimizes deviation from Section R402.1 shall be provided for the following alterations:

1. Roof replacements or a roof *alteration* that includes removing and replacing the *roof covering* where the *roof assembly* includes insulation entirely above the roof deck, where limiting conditions require use of an *approved* design to minimize deviation from Section R402.1 for a Group R-2 building, a registered design professional or other *approved* source shall provide *construction documents* that identify the limiting conditions and the means to address them.

R503.1.2 Heating and cooling systems. New heating and cooling and duct systems that are part of the alteration shall comply with Section R403 and this section. HVAC ducts newly installed as part of an *alteration* shall comply with Section R403. Alterations to heating, cooling and duct systems shall comply with this section.

Exception: Where ducts from an existing heating and cooling system are extended to an addition.

R503.1.2.1 Ducts. HVAC ducts newly installed as part of an alteration shall comply with Section R403.

Exception: Where ducts from an existing heating and cooling system are extended to an addition.

Commented [CR73]: An exception for roof replacements with limiting conditions on the roof is added to permit less insulation than otherwise required. Language is consistent with IL Energy Conservation Code.

Commented [CR74]: Several requirements to ensure that new HVAC in Alterations is as efficient as possible. Including sizing equipment instead of matching existing size, more stringent duct leakage and better controls.

R503.1.2.2 System sizing. New heating and cooling equipment that is part of an *alteration* shall be sized in accordance with Section R403.7 based on the existing building features as modified by the *alteration*.

Exception: Where it has been demonstrated to the *code official* that compliance with this section would result in heating or cooling equipment that is incompatible with the remaining portions of the existing heating or cooling system.

R503.1.2.3 Duct leakage. Where an *alteration* includes any of the following, ducts shall be tested in accordance with Section R403.3.5 and shall have a total leakage less than or equal to 12.0 cubic feet per minute (339.9 L/min) per 100 square feet (9.29 m²) of conditioned floor area:

1. Where 25 percent or more of the registers that are part of the duct system are relocated.
2. Where 25 percent or more of the total length of all ducts in the system are relocated.
3. Where the total length of all ducts in the system is increased by 25 percent or more.

Exception: Duct systems located entirely inside a conditioned space in accordance with Section R403.3.2.

R503.1.2.4 Controls New heating and cooling equipment that are part of the *alteration* shall be provided with controls that comply with Sections R403.1 and R403.2.

APPENDIX RB

SOLAR-READY PROVISIONS—DETACHED ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

User note:

About this appendix: Harnessing the heat or radiation from the sun's rays is a method to reduce the energy consumption of a building. Although Appendix RB does not require solar systems to be installed for a building, it does require the space(s) for installing such systems, providing pathways for connections and requiring adequate structural capacity of roof systems to support the systems.

Commented [CR75]: Appendix is removed since the requirements are integral to the main body of the Stretch Code.

SECTION RB101 SCOPE

RB101.1 General. These provisions shall be applicable for new construction where solar-ready provisions are required.

SECTION RB102 GENERAL DEFINITION

SOLAR-READY ZONE. A section or sections of the roof or building overhang designated and reserved for the future installation of a solar photovoltaic or solar thermal system.

SECTION RB103 SOLAR-READY ZONE

RB103.1 General. New detached one- and two-family dwellings, and townhouses with not less than 600 square feet (55.74 m^2) of roof area oriented between 110 degrees and 270 degrees of true north shall comply with Sections RB103.2 through RB103.8.

Exceptions:

1. New residential buildings with a permanently installed on-site renewable energy system.
2. A building where all areas of the roof that would otherwise meet the requirements of Section RB103 are in full or partial shade for more than 70 percent of daylight hours annually.

RB103.2 Construction document requirements for solar-ready zone. Construction documents shall indicate the solar-ready zone.

RB103.3 Solar-ready zone area. The total solar-ready zone area shall be not less than 300 square feet (27.87 m^2) exclusive of mandatory access or setback areas as required by the *International Fire Code*. New townhouses three stories or less in height above grade plane and with a total floor area less than or equal to 2,000 square feet (185.8 m^2) per dwelling shall have a solar-ready zone area of not less than 150 square feet (13.94 m^2). The solar-ready zone shall be composed of areas not less than 5 feet (1524 mm) in width and not less than 80 square feet (7.44 m^2) exclusive of access or setback areas as required by the *International Fire Code*.

RB103.4 Obstructions. Solar-ready zones shall be free from obstructions, including but not limited to vents, chimneys, and roof-mounted equipment.

RB103.5 Shading. The solar-ready zone shall be set back from any existing or new permanently affixed object on the building or site that is located south, east or west of the solar zone a distance not less than two times the object's height above the nearest point on the roof surface. Such objects include, but are not limited to, taller portions of the building itself, parapets, chimneys, antennas, signage, rooftop equipment, trees and roof plantings.

RB103.6 Capped roof penetration sleeve. A capped roof penetration sleeve shall be provided adjacent to a solar-ready zone located on a roof slope of not greater than 1-unit vertical in 12-units horizontal (8-percent slope). The capped roof penetration sleeve shall be sized to accommodate the future photovoltaic system conduit, but shall have an inside diameter of not less than 1 $\frac{1}{4}$ inches (32 mm).

RB103.7 Roof load documentation. The structural design loads for roof dead load and roof live load shall be clearly indicated on the construction documents.

RB103.8 Interconnection pathway. Construction documents shall indicate pathways for routing of conduit or plumbing from the solar-ready zone to the electrical service panel or service hot water system.

RB103.9 Electrical service reserved space. The main electrical service panel shall have a reserved space to allow installation of a dual-pole circuit breaker for future solar electric installation and shall be labeled "For Future Solar Electric." The reserved space shall be positioned at the opposite end from the input feeder location or main circuit location.

RB103.10 Construction documentation certificate. A permanent certificate, indicating the solar-ready zone and other requirements of this section, shall be posted near the electrical distribution panel, water heater or other conspicuous location by the builder or registered design professional.

APPENDIX RD ALL-ELECTRIC RESIDENTIAL BUILDINGS

The provisions contained in this appendix are not mandatory unless specified as such in the jurisdiction's adopting ordinance.

User note: *About this chapter:* Appendix RD provides jurisdictions adopting the 2023 Illinois Stretch Energy Code the option to require all-electric residential buildings and to promote electrification in existing buildings in support of policy goals to reduce carbon emissions and improve the health and safety of buildings.

Commented [CR76]: Optional Appendix for All Electric Buildings.

RD101 GENERAL

RD101.1 Intent. The intent of this Appendix is to amend the Illinois Stretch Energy Code to reduce greenhouse gas emissions and improve the safety and health of buildings by not permitting combustion equipment in new buildings.

RD101.2 Scope. This appendix applies to residential buildings. Section RD103 applies to new residential buildings. Section RD104 applies to existing residential buildings.

RD102 GENERAL DEFINITIONS

ALL-ELECTRIC BUILDING. A building that contains no *combustion equipment*, or plumbing for *combustion equipment*, installed within the building, or building site.

APPLIANCE. A device or apparatus that is manufactured and designed to utilize energy and for which this code provides specific requirements.

COMBUSTION EQUIPMENT. Any equipment or *appliance* used for space heating, service water heating, cooking, clothes drying and/or lighting that uses *fuel gas* or *fuel oil*.

EQUIPMENT. Piping, ducts, vents, control devices and other components of systems other than *appliances* that are permanently installed and integrated to provide control of environmental conditions for buildings. This definition shall also include other systems specifically regulated in this code.

FUEL GAS. A natural gas, manufactured gas, liquified petroleum gas or a mixture of these.

FUEL OIL. Kerosene or any hydrocarbon oil having a flash point not less than 100°F (38°C).

SECTION RD103 NEW RESIDENTIAL BUILDINGS

RD103.1 Application. Residential buildings shall be *all-electric buildings* and comply with either Section R401.2.1, R401.2.2, or R401.2.3.

SECTION RD104 EXISTING RESIDENTIAL BUILDINGS

RD104.2 Cooling equipment. New and replacement unitary air conditioners shall be electric heat pump equipment sized and configured to provide both space cooling and space heating. Any other space heating systems that serve the same zone shall be configured as supplementary heat in accordance with Sections R403.1.2

and RD104.3.

Exception: Where a space heating system serves multiple dwelling units the system is not required to be configured to supplementary heat.

RD104.3 Heat pump supplementary combustion equipment. Heat pumps having *combustion equipment* or *electric resistance equipment for supplementary space or water heating* shall have controls that limit supplemental heat operation to only those times when one of the following applies:

1. The heat pump is operating in defrost mode.
2. The vapor compression cycle malfunctions.
3. For space heating systems, the thermostat malfunctions.
4. For space heating systems, the vapor compression cycle cannot provide the necessary heating energy to satisfy the thermostat setting.
5. For water heating, the heat pump water heater cannot maintain an output water temperature of at least 120°F (49°C) New supplementary space and water heating systems for heat pump equipment shall not be permitted to have a heating input capacity greater than the heating input capacity of the heat pump equipment.

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

TITLE 71: PUBLIC BUILDINGS, FACILITIES, AND REAL PROPERTY
CHAPTER I: CAPITAL DEVELOPMENT BOARD
SUBCHAPTER a: RULES

PART 42
COMMUNITY HEALTH CENTER CONSTRUCTION

SUBPART A: GENERAL PROVISIONS

Section	
42.100	Definitions
42.110	Incorporated and Referenced Materials

SUBPART B: GRANTS TO FUND
COMMUNITY HEALTH CENTER CAPITAL PROJECTS

Section	
42.200	Grants
42.210	Eligibility for Grant
42.220	Program Requirements
42.230	Use of Grant Funds
42.240	Application Evaluation Process
42.250	Grant Award Process
42.260	Reporting
42.270	Payment Schedules

AUTHORITY: Implementing and authorized by the Community Health Center Construction Act [30 ILCS 766/10] and Section 50 of the Grant Accountability and Transparency Act [30 ILCS 708/50].

SOURCE: Adopted at 34 Ill. Reg. 11382, effective July 26, 2010; amended at 47 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 42.100 Definitions

"Act" means the Community Health Center Construction Act [30 ILCS 766/10].

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

"Acquire a new physical location" means the purchase of real property for the purpose of delivering primary health care services. (Section 10-20(2) of the Act)

"Board" means the Capital Development Board. (Section 10-5 of the Act)

"Community health center site" means a new or existing physical site where a community health center will provide primary health care services either to a medically underserved population or area or to the uninsured population of this State. (Section 10-5 of the Act)

"Community provider" or "Community Health Center" means a Federally Qualified Health Center or FQHC Look-Alike (community health center or health center), designated as such by the Secretary of the United States Department of Health and Human Services, that operates at least one federally designated primary health care delivery site in the State of Illinois. (Section 10-5 of the Act)

"Department" means the Illinois Department of Public Health. (Section 10-5 of the Act)

"Equipment" means movable equipment, including all items of initial equipment, other than built-in equipment, that is necessary and appropriate for the functioning of a community health center site that is purchased, renovated, or constructed with grant funds, and that will be used solely or primarily in the rooms or areas covered in the subject project. Further, equipment is defined as manufactured items that have significant useful lives of at least 12 years, are not affixed to a building and capable of being moved or relocated from room to room or building to building, are not consumed in use, and have an identity and function that will not be lost through incorporation into a more complex unit. Equipment includes the following when meeting the above requirements:

Office/medical machinery or implements and furniture

Scientific and medical instruments and apparatus with the exception of those items that are subject to a short useful life, i.e., glassware, tubing, crockery, light bulbs, etc.

Transportation costs and installation costs incurred from an outside source will be considered as part of the equipment cost.

Computer hardware

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

Equipment does not include:

Commodities;

Library books, maps, and paintings;

Rolling stock, including cars, trucks, boats, and related items; and

Spare and replacement parts.

"Federally Qualified Health Center" or "FQHC" means a health center funded under Section 330 of the federal Public Health Service Act.

"FQHC Look-Alike" means an organization that meets the requirements for receiving a grant under Section 330 of the Federal Public Health Service Act (42 U.S.C. 254b), but does not receive federal grants under that authority.

"Grant" refers to funds awarded to a Community Health Center under the Act *for the purpose of purchasing equipment; acquiring a new physical location for the purpose of delivering primary health care services; and/or constructing or renovating new or existing community health center sites.* (Section 10-20 of the Act)

"Grantee" refers to a community health center that is the recipient of a capital grant under the Act.

"Medically underserved area" or "MUA" means an urban or rural area designated by the Secretary of the United States Department of Health and Human Services as an area with a shortage of personal health services. (Section 10-5 of the Act)

"Medically underserved population" or "MUP" means the population of an urban or rural area designated by the Secretary of the United States Department of Health and Human Services as an area with a shortage of personal health services or a population group designated by the Secretary as having a shortage of those services. (Section 10-5 of the Act)

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

"Notice of Funding Opportunity" means the Board's formally issued announcement of the availability of State funding for the Community Health Center Construction Grant program.

"Primary health care services" means the following:

Basic health services consisting of the following:

Health services related to family medicine, internal medicine, pediatrics, obstetrics, or gynecology that are furnished by physicians and, if appropriate, physician assistants, nurse practitioners, and nurse midwives.

Diagnostic laboratory and radiologic services.

Preventive health services, including the following:

Prenatal and perinatal services.

Screenings for breast, ovarian, and cervical cancer.

Well-child services.

Immunizations against vaccine-preventable diseases.

Screenings for elevated blood lead levels, communicable diseases, and cholesterol.

Pediatric eye, ear, and dental screenings to determine the need for vision and hearing correction and dental care.

Voluntary family planning services.

Preventive dental services.

Emergency medical services.

Pharmaceutical services as appropriate for particular health centers.

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

Referrals to providers of medical services and other health related services (including substance abuse and mental health services).

Patient case management services (including counseling, referral, and follow-up services) and other services designed to assist health center patients in establishing eligibility for and gaining access to federal, State, and local programs that provide or financially support the provision of medical, social, educational, or other related services.

Services that enable individuals to use the services of the health center (including outreach and transportation services and, if a substantial number of the individuals in the population are of limited English-speaking ability, the services of appropriate personnel fluent in the language spoken by a predominant number of those individuals).

Education of patients and the general population served by the health center regarding the availability and proper use of health services.

Additional health services consisting of services that are appropriate to meet the health needs of the population served by the health center involved and that may include the following:

Environmental health services, including the following:

Detection and alleviation of unhealthy conditions associated with water supply.

Sewage treatment.

Solid waste disposal.

Detection and alleviation of rodent and parasite infestation.

Field sanitation.

Housing.

Other environmental factors related to health.

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

Special occupation-related health services for migratory and seasonal agricultural workers, including the following:

Screening for and control of infectious diseases, including parasitic diseases.

Injury prevention programs, which may include prevention of exposure to unsafe levels of agricultural chemicals, including pesticides. (Section 10-5 of the Act)

"Project" means a capital plan to:

acquire a new physical location, which may include necessary construction, renovations and/or real property or equipment purchases, to establish a new community health center site to provide primary health care services to medically underserved populations or areas or to provide primary health care services to the uninsured population of Illinois; or

renovate existing community health center sites; purchase equipment to expand the services of an existing community health center site to provide primary health care services to medically underserved populations or areas or to provide primary health care services to the uninsured population of Illinois; or prevent or reverse the deterioration of existing health center structures or mechanical operations to prevent life, health or safety concerns for health center staff and patients.

"Rural" means any geographic area not located in a U.S. Bureau of the Census Metropolitan Statistical Area, a county located within a Metropolitan Statistical Area but having a population of 60,000 or less, or a community located within a Metropolitan Statistical Area but having a population of 2,500 or less.

"Service area" is the geographic area composed of the medically underserved area or medically underserved population.

"Uninsured population" means persons who do not own private health care insurance, are not part of a group insurance plan, and are not eligible for any State or federal government-sponsored health care program. (Section 10-5 of the Act)

"Urban" means any geographic area not designated as a rural area.

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.110 Incorporated and Referenced Materials

- a) The following Illinois statutes and administrative rules are referenced in this Part:
 - 1) Community Health Center Construction Act [30 ILCS 766/10]
 - 2) Grant Accountability and Transparency Act (GATA) [30 ILCS 708]
 - 3) Grant Accountability and Transparency Act Administrative Rules (GATA Rules) (44 Ill. Adm. Code 7000)
 - 4) Illinois Grant Funds Recovery Act [30 ILCS 705]
- b) The following federal statute and rule are referenced in this Part:
 - 1) Public Health Service Act (42 U.S.C. 254b)
 - 2) Grants for Community Health Services (42 CFR 51c)
- c) The following federal regulation is incorporated in this Part:

Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 CFR 200 (November 12, 2020)), except as otherwise provided in 44 Ill. Adm. Code 7000.40(c)(1)(A) and unless an exception has been granted and documented in the Governor's Office or Management and Budget Catalog of State Financial Assistance. The terminology equivalencies listed at 44 Ill. Adm. Code 7000.200(b)(1) shall be used for grants under this Part.
- d) All incorporations by reference of federal regulations refer to materials on the date specified and do not include any subsequent amendments or editions.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

SUBPART B: GRANTS TO FUND COMMUNITY HEALTH CENTER CAPITAL PROJECTS

Section 42.200 Grants

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

- a) *The Board shall establish a Community Health Center Construction Grant Program and may make grants to eligible community providers subject to appropriations for that purpose. The grants shall be for the purpose of:*
 - 1) *Purchasing equipment;*
 - 2) *Acquiring a new physical location for the purpose of delivering health care services; or*
 - 3) *Constructing or renovating new or existing community health center sites.*
- b) *A recipient of a grant to establish a new community health center site must add each such site to the recipient's established service area for the purpose of extending federal FQHC or FQHC Look-Alike status to the new site in accordance with federal regulations (see 42 CFR 51c). (Section 10-10 of the Act) Failure to comply with this Part or any other State law or regulation may result in the recovery of grant funds as described in the Illinois Grant Funds Recovery Act.*
- c) The Board will provide the Notice of Funding Opportunity in the Catalog of State Financial Assistance for the State of Illinois. The notice shall include a deadline for receiving applications and details of the application process. The Board will accept applications for a minimum of 60 calendar days, although a longer period may be specified in the Notice of Funding Opportunity.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.210 Eligibility for Grant

- a) Applicants shall meet the following requirements:
 - 1) *Be a community provider as defined in Section 10-5 of the Act (Section 10-15 of the Act);*
 - 2) Serve, in whole or in part, a designated MUA or MUP;
 - 3) Provide primary health care services, and
 - 4) Be "qualified" in accordance with GATA and the GATA Rules, 44 Ill. Adm. Code 7000.70.

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

- b) Applicants may apply for up to \$3,000,000 in grant funding per application.
- c) Applicants may only submit one application for funding per funding opportunity.
- d) Letter of Intent
At least 30 calendar days prior to the application submission deadline, the applicant shall send a letter of intent to apply for grant funds to the Department and the Board by email as outlined in the Notice of Funding Opportunity that includes the following:
 - 1) The proposed grant project description, location and applicant.
 - 2) The proposed users of the primary health care services and service area, including identification of any MUA or MUP designations.
 - 3) The issues that create a high need for primary health care services, including any significant or unique barriers to care.
 - 4) Other providers of care in the service area, including any other FQHCs that received funding that receive funding under Section 330 of the Federal Public Health Service Act or FQHC Look-Alikes.
 - 5) All primary health care services that will be provided, including mental health, substance abuse and oral health care services, as well as the mechanism for providing each service (e.g., direct service, referral).
 - 6) Project stage of development and the ability of the applicant to meet the requirements of this Part for program compliance.
 - 7) Readiness to receive funding, including the ability of the facility and providers at the new access point or expanded facility to be operational upon completion of the capital portion of the project.
- e) Notification Process
Upon sending the Letter of Intent, the prospective applicant shall send a copy of the "Notification of Application for State Funding of Community Health Center Construction" to other FQHCs and FQHC Look-Alikes in the service area. The application packet submitted to the Board shall include a copy of the completed notification form, as well as the names and addresses of individuals to whom the

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

forms were sent, the organizations that the individuals represent, and the date of the notification.

f) Application

The application shall include, but not be limited to:

- 1) A summary of the applicant's plan of action to address the goals of either:
 - A) Establishing a new community health center site to provide primary health care services to MUP or MUA or to provide primary health care services to the uninsured population of Illinois; or
 - B) Expanding the services of an existing community health center site to provide primary health care services to MUP or MUA or primary health care services to the uninsured population of Illinois; or
 - C) Preventing or reversing the deterioration of an existing health center structure or its mechanical operations to prevent life, health or safety concerns for health center staff and patients.
- 2) A project description that shall include the following information:
 - A) Proposed service area and applicant description;
 - B) Statement of need for the project;
 - C) Project objectives;
 - D) Plan of operation;
 - E) Project timeline; and
 - F) Detailed line-item budget.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.220 Program Requirements

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

Projects *shall be for the purpose of*:

- a) Acquiring a new physical location, which may include necessary construction, renovation and/or real property or equipment purchases, to *establish a new community health center site to provide primary health care services to medically underserved populations or areas or to provide primary health care services to the uninsured population of Illinois; or*
- b) Renovating existing sites or purchasing equipment to expand the services of an existing community health center site to provide *primary health care services to medically underserved populations or areas or to provide primary health care services to the uninsured population of Illinois, or to prevent or reverse the deterioration of existing community health center site structures or mechanical operations to address life, health or safety concerns for health center staff and patients.* (Section 10-10 of the Act)

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.230 Use of Grant Funds

- a) *A recipient of a grant under the Act and this Part may use the grant moneys to do any one or more of the following:*
 - 1) *Purchase equipment.*
 - 2) *Acquire a new physical location for the purpose of delivering primary health care services.*
 - 3) *Construct or renovate new or existing community health center sites.*
(Section 10-20 of the Act)
- b) Grant funds shall not be used for the following:
 - 1) To offset existing debt;
 - 2) To supplant existing funds that support a service, program or activity for which grant support is requested;

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

- 3) To fund expenses associated with the operations of the community health center; or
- 4) To make leasehold improvements, unless the property owner and Grantee commit to continued use by Grantee of any space improved with Grant Funds for no less than 12 years from the date of project completion.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.240 Application Evaluation Process

Applications will be reviewed to ensure that the applicants meet all eligibility requirements of Section 42.210. Those applications that are determined to be ineligible will be returned to the applicant and will not be reviewed further. Applications meeting all eligibility requirements of Section 42.210 will be forwarded to a review committee for scoring.

- a) The review committee will consist of individuals who have worked with uninsured populations or MUA or MUP and, when possible, have prior grant review experience and who represent different geographic areas in the State.
- b) The review committee will review the grant applications based upon the following:
 - 1) Documented need for the project.
 - 2) Demonstration that the project will result in increased access to primary healthcare services for the new and existing service area residents.
 - 3) Ability to successfully complete project objectives described in the grant application.
 - 4) Ability to implement and sustain the community health center's new operations upon completion of the capital project.
- c) In scoring applications, preference will be given to applicants who:
 - 1) Demonstrate the project will result in increased access to health care for new service area residents.

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

- 2) Have never received grant funds under this program.
- d) Upon completion of scoring by the review committee, applications will be reviewed by the Board for scoring of the project based on:
 - 1) the appropriateness of budget;
 - 2) the applicant's ability to obtain any necessary balance of funds for projects totaling more than the allowable grant amount, if applicable; and
 - 3) the timeline for the completion of the project, including the readiness of the project to begin once the funds are awarded.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.250 Grant Award Process

- a) Grants will be awarded by the Board based on the combined scores of the review committee and the Board.
- b) Grants will be awarded based on the availability of funding within a given application period.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.260 Reporting

- a) *Within 60 days after the first year of a grant under this Act, the grant recipient must submit a progress report to the Department and the Board. The Department may assist each grant recipient in meeting the goals and objectives stated in the original grant proposal submitted by the recipient and may assist the grant recipient in ensuring that grant moneys are being used for appropriate purposes, and that residents of the community are being served by the new community health center sites established with grant moneys. (Section 10-25 of the Act)*
- b) The grant recipient must submit performance and financial progress reports to the Board as outlined in the grant agreement. Deadlines may be extended at the discretion of the Board only in extraordinary circumstances outside the control of the grant recipient.

ILLINOIS REGISTER

CAPITAL DEVELOPMENT BOARD

NOTICE OF PROPOSED AMENDMENTS

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Section 42.270 Payment Schedules

Grant funds will be disbursed at the completion of construction milestones as outlined in the grant agreement.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

Project Number: 630-000-267

Description: Remove and Install Septic Tank and Lift Station
IDOT Dixon West Yard Storage Facility
Dixon (Lee County), IL
IDOT Section Facility District D2
Belvidere (Boone County), IL

Using Agency: Illinois Department of Transportation (IDOT)

Architect/Engineer: Horner & Shifrin, Inc.
604 Pierce Blvd., Ste. 300
O'Fallon, IL 62269

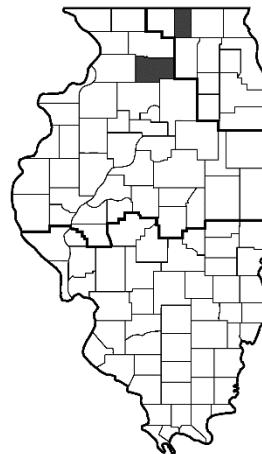
Total Project Budget: \$ 1,075,000.00

Unobligated Funds: \$ 23,484.00

Total Spent to Date: \$ 70,499.76

Percent Complete: 95%

Project Manager: Charla Travis



PROJECT HISTORY: The project will consist of work completed at two (2) IDOT locations, (1) Dixon West Yard Storage facility and (2) Belvidere Team Section Headquarters facility.

The Dixon West Yard Storage facility is a four (4) building facility established in 1970. The scope of work provides for the removal of the existing sewage disposal utilities including one (1) septic tank and all associated drain field piping. Work also provides for the installation of one (1) new septic tank, one (1) distribution box, septic drain field, and all associated appurtenances and interconnections.

The Belvidere Team Section Headquarters is a five (5) building facility established in 1989. The scope of work provides for abandoning the existing private sewage disposal utilities including one (1) existing ejector pump, one (1) septic tank, and associated septic drain field. Work also provides for the installation of two (2) new sanitary manholes, approximately <200 linear feet of gravity sewer, one (1) new packaged duplex grinder pump station, and approximately <1,400 linear feet of sanitary force main.

During the 100% design review, IDOT voiced concerns regarding an upcoming project at the Dixon location that adds a truck wash, new pole building, and additional employees on site. IDOT was concerned that the current sewer design may not support the additional scope of the upcoming project. As such, IDOT requested Horner & Shifrin to review the current scope to determine if it has sufficient capacity for these future site improvements.

PURPOSE OF THIS AGREEMENT MODIFICATION: This modification will compensate the A/E for the additional design work required to revise the scope of this project.

SUBJECT AGREEMENT AMENDED AS FOLLOWS

Fee Description	Total Obligation per Original Agreement	Total Amount of Previous Modifications	Total Obligation Prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$87,900.00	\$0.00	\$87,900.00	\$0.00	\$87,900.00
Additional Services	\$0.00	\$856.00	\$856.00	\$406,900.00	\$407,756.00
Contract Administration Fee	\$2,600.00	\$0.00	\$2,600.00	\$12,200.00	\$14,800.00
On-site Representative Reimbursement	\$10,000.00	\$0.00	\$10,000.00	\$0.00	\$10,000.00
Print Bid Documents	\$500.00	\$0.00	\$500.00	\$0.00	\$500.00
Geotechnical Investigation	\$21,560.00	\$0.00	\$21,560.00	\$0.00	\$21,560.00
Topographical Survey	\$24,000.00	\$0.00	\$24,000.00	\$0.00	\$24,000.00
TOTALS	\$146,560.00	\$856.00	\$147,416.00	\$419,100.00	\$566,516.00



MEMORANDUM

TO: Ms. Blanca Rivera, Regional Manager – Region 1
Mr. Tim Patrick, Construction Administrator

FROM: Ms. Charla Travis, Project Manager – Region 1

DATE: Jan. 26, 2024

Project #: 630-000-267

Description/Location: Remove and Install Septic Tank and Lift Station
IDOT Dixon West Yard Facility
2703 4th St.
Dixon (Lee County), IL
IDOT Team Section Headquarters Facility
9797 Illinois Route 76
Belvidere (Boone County), IL

A/E Name: Horner & Shifrin, Inc.
604 Pierce Blvd., Ste. 300
O'Fallon, IL 62269

Capital Development Board (CDB) has worked with the A/E Horner & Shifrin (H&S) for the Design and Construction of Project 630-000-267: IDOT (Illinois Department of Transportation) Dixon & Belvidere – Remove and Install Septic Tank and Lift Station. The Project Scope consist of the following:

- Location #1: IDOT Dixon West Yard Storage Facility:
 - Remove existing private sewage disposal utilities including, one (1) septic tank and all assoc. drain field piping. Install one (1) new septic tank, one (1) distribution box, septic drain field, and all assoc. appurtenances and interconnections.
- Location #2: IDOT Belvidere Team Section Headquarters Facility:
 - Abandon existing private sewage disposal utilities, including, without limitation, one (1) existing ejector pump, one (1) septic tank, and assoc. septic drain field. Install two (2) new sanitary manholes, and approx. <200 LF gravity sewer, one (1) new packaged duplex grinder pump station, and approx. <1,400 LF of sanitary force main.

Horner & Shifrin completed the required design submittals to 100% Design.

During the design review IDOT mentioned a concern that the Dixon design may not support an upcoming project at the Dixon location. The upcoming project consists of the addition of a truck wash, new pole building, and additional employees coming to the site.

Horner & Shifrin completed an analysis of the current scope based off the information received from IDOT and determined that the current scope will not hold the capacity of the upcoming additions. IDOT reviewed and accepted the proposal from H&S for the re-design and construction.

CDB has created the modification for approval by the board for this project. It is the opinion of CDB PM, Charla Travis, that the A/E Horner & Shifrin has done their due diligence to analyze the current design and provided acceptable re-design and construction fees.

Thank You

Charla Travis
Capital Development Board
Project Manager – Region 1

MODIFICATION

State of Illinois

CAPITAL DEVELOPMENT BOARD



Professional Services Agreement

Modification Number: 2

Project Number: 630-000-267

Date: January 8, 2024

Firm Name, Address

Horner & Shifrin, Inc.
8755 W. Higgins Rd., Ste 325
Chicago, IL 60631

Project Information

Remove and Install Septic Tank and Lift Station
Statewide Program
Statewide, Statewide County, Illinois

This Modification Establishes a Full Service Agreement

Agreement Date: 2021-12-06 Contract: 22001310

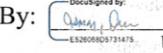
Scope/Purpose of this agreement modification: IDOT requested the change in scope be designed to connect to the municipal sewer system. We accept that Horner & Shifrin understand the change in scope and have proposed a suitable solution. IDOT feels that the re-design fees are acceptable. IDOT will fund the redesign and provide funding to the new construction estimate.

Subject agreement amended as follows: Replace Appendix A - M1 with Appendix A - M2

AGREEMENT SUMMARY

Fee Description	Total Obligation Per Original Agreement	Total Amount of Previous Modifications	Total Obligation prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$87,900.00	\$0.00	\$87,900.00	\$0.00	\$87,900.00
Additional Services	\$0.00	\$856.00	\$856.00	\$406,900.00	\$407,756.00
Contract Administration Fee,	\$2,600.00	\$0.00	\$2,600.00	\$12,200.00	\$14,800.00
On-Site Representative Reim	\$10,000.00	\$0.00	\$10,000.00	\$0.00	\$10,000.00
Print Bid Documents in excess	\$500.00	\$0.00	\$500.00	\$0.00	\$500.00
Geotechnical Investigation	\$21,560.00	\$0.00	\$21,560.00	\$0.00	\$21,560.00
Topographical Survey	\$24,000.00	\$0.00	\$24,000.00	\$0.00	\$24,000.00
TOTALS	\$146,560.00	\$856.00	\$147,416.00	\$419,100.00	\$566,516.00

Prepared by: Charla Travis 01/08/24
Charla Travis Date

By:  1/18/2024 | 5:57 PM CS
Using Agency approval Date

Omer Osman, P.E. Secretary of Transportation

AE Firm name: Horner & Shifrin, Inc.
By: Stephen Randolph 1/9/24
AE's Authorizing Representative Date

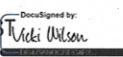
Reviewed: Elizabeth Smith 01/26/2024
Contract Executive Date

Print AE name, Title: Horner & Shifrin, Stephen Randolph, Assoc. V.P.
Approved by: Stephen Randolph 1/24/2024
Regional Manager Date

By: Elizabeth Smith Fiscal Date

Final CDB authorization _____
Print name/title _____ Date

Approved by: Michael S. Prater 1/18/2024 | 8:36 AM CST
Michael Prater Date
Chief Counsel

By:  1/18/2024 | 11:37 AM CS
Vicki L. Wilson Date
Chief Fiscal Officer

CDB Project No. 630-036-009

Illinois Department of Transportation
New Lenox Maintenance Yard
New Lenox, Will County, IL

Subject: Single Bid Award

CDB Project Manager: Charla Travis



Project History:

The scope of work for this project provides for the construction of two (2) new buildings for IDOT. This includes a new prefabricated cold storage building with four (4) bays that are two (2) trucks deep with overhead doors on both sides, a gas service line to the building for future use by IDOT, and a trench drain. The scope also includes a new materials lab with offices, storage, toilet rooms, lab space and equipment room. Project also includes the construction of a concrete secondary containment to hold brine solution tanks.

Requested Action:

Bids were received on August 22, 2023. A single bid was received for the electrical trade. Six (6) bids were received for the general trade. Three (3) bids were received for the plumbing trade. Two (2) bids were received for the ventilation trade. Thirteen (13) plan rooms and three (3) contractors held drawings for the project. Additionally, the A/E and PM reached out to more than twelve (12) contractors in an effort to garner interest in the project.

Architect/Engineer: Mode Architects
343 W. Erie, St., Suite 410
Chicago, IL 60654
(312) 475-9918

<u>TRADE</u>	<u>BASE BID</u>	<u>ESTIMATE</u>	<u>% DIFFERENCE</u>
Electrical	\$494,119.00	\$269,270.00	+83.5%

Both the A/E and the CDB Staff recommend that the award be made to:

Public Electric Construction Co.
415 Harvester Ct.
Wheeling, IL 60090

Electrical Work: \$ 494,119



MEMORANDUM

TO: Ms. Blanca Rivera, Regional Manager – Region 1
Mr. Tim Patrick, Construction Administrator

FROM: Ms. Charla Travis, Project Manager – Region 1

DATE: Jan. 26, 2024

Project #: 630-036-009

Description/Location: Construct Cold Storage Building, Secondary Containment and Materials Lab
New Lenox Maintenance Yard
495 Degroate Road (U.S. Route 30/ Lincoln Highway)
New Lenox (Will County), IL

A/E Name: Mode Architects, Inc.
343 W. Erie St., Suite 410
Chicago, IL 60654

Capital Development Board (CDB) held bid openings for the Project 630-036-009: IDOT New Lenox-Construct Cold Storage Building, Secondary Containment and Materials Lab. The bid opening received only one bidder for the Electrical Trade held on August 22, 2023. The Architect/Engineer (A/E) of record for this project is Mode Architects.

The project scope is to consists of the following:

- 1.) Materials Lab Construction: New construction build out that includes new Office spaces. lab area, new toilet rooms and a garage storage shed. The garage storage is to be pre-manufactured pole barn.
- 2.) Cold Storage Facility Construction: New Construction build out that is a non-insulated, pre-manufactured, metal building to house user vehicles.
- 3.) Secondary Containment Construction: New Construction that consists of a raised concrete platform to support salvaged brine tanks.

The scope of the project includes civil, structural, mechanical, plumbing, and electrical scopes of work.

A Pre-Bid Meeting was held on Jul. 27, 2023, with 5 bidders in attendance, The electrical contractor, Public Electric Construction Co., submitted the single bid received for the electrical trade.

The Bid Results were as follows Public Electric Construction Co., submitted a bid in the amount of \$494,119.00 with the A/E having an estimated project budget of \$269,270.00. It is believed that Mode Architects has done their due diligence to distribute and make the plans available to all interested parties.

Illinois Department of Transportation (IDOT) has accepted the single bid and approved of the award for this project. Mode Architect's efforts, recommendations, and due diligence was made to get a large pool of bidders. It is not believed that rebidding the project will lead to additional bids received.

Thank You

Charla Travis
Capital Development Board
Project Manager – Region 1

BIDDERS LIST		MoDE architects, p.c.			
PROJECT NAME:	IDOT New Lenox				
PROJECT NUMBER:	630-036-009	Contact	Telephone	Fax	Email
DATE:	8/1/2023	Tim Reiland	(312)-491-9500		tr@scaleconstruction.com
Scale Construction	2869 S Archer, 2nd Floor, Chicago, IL 60608	Frank Kutschke			fkutschke@agaecontractors.com
AGAE Contractors	189 Gordon St. Elk Grove Village, IL 60007	Dave Talbott	(708)351-0446		estimating@ambermech.com
Amber Mechanical Contractors Inc.	11950 S Central Ave. Alsip, IL 60803	Matt Teschke	708-670-1796		mteschke@ibcco.com , lmartinez@ibcco.com , hmodi@ibcco.com
John Burns Construction	999 Oakmont Plaza Drive, Suite 400, Westmont, IL	Al Mendoza	(630)231-4840		amendoza@sesequip.com
SES, Inc.	1400 Powis Rd. West Chicago, IL 60185	Cathy Sullivan	(708) 754-0252		chcc02@ameritech.net
Chicago Heights Construction Company	1535 Otto Blvd. Chicago Heights, IL 60411	Nick Parente	(773)489-1280		nick@alliconstructiongroup.com
All Construction Group	1425 S 55th Court, Cicero, IL 60804	Pete Hickling	(847) 520-5700		pete.pecc@gmail.com
Public Electric Construction Company	415 Harvester Court, Wheeling, IL 60090	Muhammad Khan & Dylan Duncan	(312) 599-6665		muhammad@industriainc.com ; JoeM@industriainc.com
Industria Construction Services	2860 S River Road, Suite 100, Des Plaines, IL 60018	Ron Selby Jr	(708) 598-2300		rselby@imperialcrane.com
Imperial Crane	400 E Illinois St. Suite B, Lemont, IL 60439	Logan Turigliatti			jtiones@vissering.com
Vissering Construction Company	175 Benchmark Industrial Dr, Streator, IL 61364	Matthew Gierman	(773) 306-0554		mgierman@toroconstructioncorp.com
Toro Construction	15657 S. 70th Court, Orland Park, IL 60642	Tina Rose	(773)721-2500		<a href="mailto:Tina.Rose<troyse@ccc-chicago.com>">Tina.Rose<troyse@ccc-chicago.com>
CCC Design-Build	18660 Graphics Drive, Suite 200 Tinley Park, IL 60477	Andrew Usher	708-680-5000		ausher224@gmail.com
Ideal Heating Company	9515 Southview Ave. Brookfield, IL 60513	Jordan Seal	773-638-5206		jordans2@westerngroup.com
Western Specialty Contractors		Matt Rutz	773-638-2758		matt.rutz@thestone.group
Stone Group	228 N Washtenaw Ave. Chicago, IL 60612	Ken Thomas	630-629-5850		kenthomas@cwburnsco.com
CW Burns Co. Inc.	1536 Brook Drive #E, Downers Grove, IL				

Plan Holders List

Dodge Plan Rooms	7265 Kenwood Road, Suite 200, Cincinnati OH 45236	Keith Navale	413-340-0543	(630) 214-3924	keith.navale@construction.com
	30 Technology Parkway South, Suite 100 Norcross, GA 30092		800-364-2059		content@constructconnect.com
Construct Connect					
Data Bid	433 Penn Street, Newtown, PA 18940	Julie Dustin	630-338-1460		julie@databid.com
Black Contractors United	12000 S. Marshfield Ave. Calumet Park, IL 60827		(708) 389-5730		bcnewera@utti.net
Latin American Chamber of Commerce	3512 West Fullerton Avenue Chicago, IL 60647	Lorenzo Padron	(773) 252-5211		d.lorenzopadron@accuse.com
Association of Asian Construction Enterprises	712 W. Root St. Chicago, IL 60609	Perry Nakachi	(847) 525-9693		nakmancorp@aol.com
Federation of Women Contractors	4210 W. Irving Park Rd. Chicago, IL 606341	Debby Gidley	(312) 360-1122		fwccicago@aol.com
IL PTAC at Rock Valley College	605 Fulton Ave, Rockford, IL 61103	Ann Johns	(815) 921-2091		ptac@rockvalleycollege.edu
Northern Illinois Building Contractors Association	1111 S. Alpine Rd., Suite 202 Rockford, IL 61108	Pat Lamb	(815) 229-5636		info@nibca.build
Contractors Association of Will & Grundy Count	233 N. Springfield Ave. Joliet, IL 60435	Karri Lane	(815) 741-1455		
African American Contractors Association	PO Box 19670 Chicago, IL 60619	Michael Sharees	(773) 891-3090		aacanaliessoc@gmail.com
East Central Illinois Building & Construction Tra	3301 N. Boardwalk, PO Box 3932, Champaign, IL 61820		(217) 621-2225		teamclmc@aol.com
Hispanic American Construction Industry Ent. Assoc	650 West Lake Street, Suite 415 Chicago, IL 60661		(312) 575-0389		icelahorrano@haciaworks.org

Project Number: 810-056-024

Description: Construct Student Services/ Adult Education Center Waukegan Campus
College of Lake County
Grayslake, Lake County, IL

Using Agency: Illinois Community College Board

Architect/Engineer: Legat Architects
1125 Tristate Parkway, Suite 730
Gurnee, IL

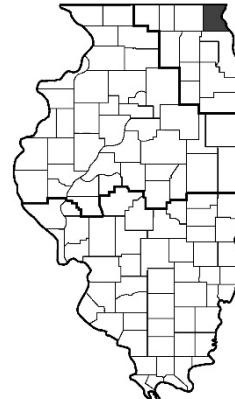
Total Project Budget: \$47,902,700.00

Unobligated Funds: \$12,081,049.68

Total Spent to Date: \$34,854,101.91

Percent Complete: 99%

Project Manager: Mark Jones



Project History: The College of Lake County is a 1,789,742 square foot, 19-building campus constructed in 1969.

The scope of work for this project provides for constructing an approximately 118,000 square foot Student Services and Adult Education Learning Center, including 46,000 square feet of classroom and laboratory space, 12,000 square feet for office space, and 15,000 square feet for general use and support space. The scope of work also provides for renovating approximately 10,300 square feet of space that will be vacated by the relocation of staff and students, installing site utilities, and constructing sidewalks, roadways, parking areas, landscaping, and providing site lighting and signage.

This project has had unique challenges from the start. The global pandemic delayed the receipt of bids and the start of construction. The impact on the construction industry was widespread and continues to affect the marketplace today. Material production dropped and shipping and transportation was significantly altered. Certain elements, materials, components, and manpower became difficult to acquire. Even through these challenges, George Sollitt has performed diligently and professionally to try and stay on schedule.

Description of RFP Change: This change order will be classified as a time extension and will provide compensation for the additional contract completion time for the project.

Delays to the contractual scheduled completion date of 9/23/22 for buildings A, B, and D were well beyond George Sollitt's control and every effort was made to lessen the impact on the project. Specifically, George Sollitt worked overtime on critical trades as needed and worked out of sequence to maintain progress and lessen delays. George Sollitt also incurred cost impacts to their general conditions specific to buildings A, B and D thru December 15, 2022.

Requested Action: We are requesting board approval of change order G-077R1 in the amount of \$287,419.50 to provide compensation to the contractor for the additional time necessary to complete the project due to the unforeseen conditions listed above.

Contractor	Trade	Change Order Amount	Original Contract	% Change
The George Sollitt Construction Co.	General	\$287,419.50	\$30,427,490.00	.95%
Total All Change Orders		\$287,419.50	\$30,427,490.00	.95%



M E M O R A N D U M

DATE: December 19, 2023

TO: Tim Patrick – Construction Administrator

FROM: Mark Jones - Project Manager

RE: Request for Board Approval of Request for Proposal and Change Order
810-056-024
Construct Student Services/ Adult Education Center Waukegan Campus
College of Lake County
Grayslake, Lake County, Illinois

The College of Lake County is a 1,789,742 square-foot, 19 building campus constructed in 1969. The scope of work provides for constructing an approximately 118,000 square foot Student Services and Adult Education Learning Center, including 46,000 square feet of classroom and laboratory space: 12,000 square feet for office space, and 15,000 square feet for general use and support space. The scope of work also provides for renovating approximately 10,300 square feet of space that will be vacated by the relocation of staff and students, installing site utilities, and constructing sidewalks, roadways, parking areas, landscaping, and providing site lighting and signage.

This project has had unique challenges from the start. The global pandemic delayed the receipt of bids and the start of construction. The impact on the construction industry has been widespread and continues to affect the marketplace today. Material production dropped and shipping and transportation was significantly altered. Certain elements, materials, components, and manpower became difficult to acquire.

In a follow up to their Construction Schedule Update through July 31, 2022, issued on August 1, 2022, The George Sollitt Construction Company formally requested CDB revise the Substantial Completion date for Exterior Improvements/Sitework from September 23, 2022, to November 15, 2022, and for the New Building A from September 23, 2022, to December 15, 2022. The reasons for this request are summarized as follows: early unforeseen impacts to the project, particularly to foundation work, delays in delivery and subsequent installation of Fire Rated Curtainwalls, discovery of undocumented concrete paving below existing asphalt and concrete on Madison Street and the existing Plaza, delay in delivery of access control hardware, fabric and glass operable partition supplier Hufcor went out of business earlier this summer and could no longer supply the approved and previously ordered partitions, custom light fixtures for the project could not be released until field measuring and mock-ups took place, particularly on the 4th and 5th Floors, the lead times on these from date of release grew considerably and some weren't delivered onsite until late Fall, manpower shortages throughout the local construction industry coupled with continuing Covid related onsite absences over the summer months have meant delays getting trades such as roofing, painting, flooring, and other finishes scheduled and completed when requested. Material escalation costs particularly on metal products for the project over the last 18 months have severely impacted contractors' ability to procure the products on time. We have witnessed this with the coiling and smoke doors and the delay in their delivery and installation has meant delays to the drywall and taping contractor on all floors. Supply chain delays on various materials, HVAC systems couldn't be started until the finished flooring was completed on most of the floors to avoid dust collecting in the coils of the chilled beams. Due to the delays listed above Sollitt indicated it will be late September before mechanical systems on the air side would be up and running.

While the above impacts delayed turnover of the building for Owner occupancy until late Fall 2022, all Owner Furniture and security/intercom systems etc. were installed as needed during October and November. Partial Substantial Completions were requested for individual areas as needed to accommodate this. Sollitt was able to complete the Testing and Balancing and Commissioning of systems completed, as well as the Building LEED Flush Out and most of the Punch List undertaken prior to the Final Substantial Completion and the College moving in.

In summary, Sollitt believes these delays to the contractual scheduled completion date of 9/23/22 for the Buildings A, B, and D were well beyond their control and every effort has been made to lessen their impact on the project. Specifically, Sollitt worked overtime on critical trades as needed and worked out of sequence to maintain progress and lessen the delays. Sollitt also incurred cost impacts to their General Conditions specific to Building A, B and D thru December 15, 2022.

Our recommendation is for the approval of the Request for Proposal and Change Order for The George Sollitt Construction Company in the amount of \$287,419.50.

State of Illinois
CAPITAL DEVELOPMENT BOARD

REQUEST FOR PROPOSAL & CHANGE ORDER

Date: 1/19/2023 RFP Number: 077R1
Revised 9/5/2023

1. (Contractor's Name, Address, Telephone, Fax & Attention)

The George Sollitt Construction Company
790 N. Central Avenue
Wood Dale, IL 60191
(630)860-7333 Fax () -
Attn: Kieran McAleer e-mail: kmcaleer@sollitt.com

CDB Project #: 810-056-024

CDB Project Name: Student Services/Adult Education Center
& Location: College of Lake County - Waukegan Campus

CDB Contract #: 21041081

Contract Work: General Construction

2. REQUEST for change by: GC

CDB contemplates making certain changes, additions and deletions to the work to be performed under the subject Contract. Unless otherwise indicated in the description of change, accompanying drawings and specifications, all work required shall conform to the contract documents. The Contractor is required to submit within 14 calendar days from the date herein a proposal and a detailed breakdown for this change. The proposal shall be submitted in accordance with CDB's format and the General Conditions.

3. REASON for change:

See attached letter dated August 30, 2023 from the general contractor, George Sollitt Construction Company, explaining the reasons they are requesting a change in the substantial completion date for this project. Legat Architects has also provide a letter dated March 2, 2023 with additional information.

4. DESCRIPTION of change including reference to drawings and specifications revised, new drawings and specifications issued.

Change the dates of Completion as follows:

a. Partial Substantial Completion: Alternate G2: August 18, 2021

b. Partial Substantial Completion: Main building, parking garage (excluding the Northeast stair tower), and site work (excluding landscaping): January 15, 2023. The attached letter from the GC clarifies additional labor and material costs for September 22, 2022 through January 15, 2023.

c. Partial Substantial Completion: Parking garage Northeast stair tower: February 15, 2023

d. Overall Substantial Completion: May 31, 2023

e. Final Completion: December 31, 2023

5. OTHER CONTRACTS affected by this change. List Contractor's name, contract work, RFP number and amount.

IMPORTANT NOTICE
Disclosure of this information is mandatory
in accordance with the Standard Documents
for Construction. Failure to complete this will
prevent payment for work completed and/or
be a material breach of contract.

6. CONSIDERATION:

Work to be accomplished in Calendar Days from Approval
of RFPCO.

The Contract Sum is INCREASED
by the total sum of.....\$ 307,587.28 \$287,419.50

NOTE: Unless specifically indicated above, this does not
extend the contract time.

KIA 12/8/23

7. The change described above and on accompanying drawings and specifications and the Contractor's proposal (if applicable) are hereby incorporated by reference and made a part hereof. Having reviewed the above and determining the amount to be fair and proper the undersigned:

RECOMMEND issuance of a change order

A/E Firm Name Legat Architects

BY

Scot Fahr

signature

APPROVE as to form and content:

USING AGENCY name College Of Lake County

BY *Michael L Welch*

signature

COORDINATING CONTRACTOR or CONSTRUCT. MANAGER

BY *Kieran McAleer*

signature

CDEPM APPROVE

CONTRACTOR

DATE 9/7/23

BY *Kieran McAleer*

print name

Kieran McAleer
Snr Project Manager

signature
title

CDB APPROVE change order

DATE

BY

print name
signature
title

8. FOR CDB USE ONLY Type of Change % Assess Package No. CO Date CO No. CO AMOUNT add (deduct) \$

Revised August 2008

Project Number: 830-030-162

Description: Construct A Computer Design Research and Learning Center (CDRLC)
850 W. Taylor Street
Chicago, Cook County, IL

Using Agency: University of Illinois - Chicago

Architect/Engineer: Mortenson
300 Park Boulevard, Suite 100
Itasca, IL 53314

Total Project Budget: \$ 104,500,000.00

Unobligated Funds: \$ 8,656,756.22

Total Spent to Date: \$ 44,620,370.97

Percent Complete: 75.7%



Project Manager: Blanca Rivera, Kenneth Watkins

Project History: The new 135,000 GFS Computer Design Research Learning Center (CDRLC) building provides the vitally needed space to accommodate the rapid growth of the Computer Science program, allows the department to consolidate a growing student body, and provides community spaces that can foster a social life within the computer design community and enrich connectivity to the broader community. The five-story structure will be the home of the Computer Science Department housing 16 classrooms, 100 faculty and staff offices, and 35 labs with collaborative and tutoring space.

The original substantial completion date for Mortenson's CM contract basic services fee was October 3, 2023. We are requesting approval to extend the substantial completion date to May 31, 2024. This will extend the duration of construction by sixty (60) weeks. The CM is requesting a fee modification of \$1,039,528.00 to extend construction management services. Associated with this modification is an increase to the CDB contract administration fee in the amount of \$31,186.00.

PURPOSE OF THIS AGREEMENT MODIFICATION:

We are requesting board approval of this modification in the amount of \$1,070,714.00 to extend the CM basic services fee and contract administration fee to the new substantial completion date of May 31, 2024.

SUBJECT AGREEMENT AMENDED AS FOLLOWS:

Fee Description	Total Obligation per Original Agreement	Total Amount of Previous Modifications	Total Obligation Prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$ 5,776,277.00	\$ 889,760.00	\$ 6,666,037.00	\$ 1,039,528.00	\$ 7,705,565.00
Builders Risk for CM	\$256,683.00	-\$154,471.00	\$102,212.00	\$0.00	\$102,212.00
Contract Administration Fee (3%)	\$ 173,200.00	\$ 26,693.00	\$ 199,893.00	\$ 31,100.00	\$ 230,993.00
Construction Testing	\$240,000.00	\$263,869.00	\$503,869.00	\$ 0.00	\$503,869.00
General/Laborer	\$915,170.00	\$29,670.00	\$944,840.00	\$0.00	\$94,840.00
General Liability Insurance	\$87,080.00	\$0.00	\$87,080.00	\$0.00	\$87,080.00
General Conditions	\$115,000.00	\$47,721.00	\$162,721.00	\$0.00	\$162,721.00
Job Site Office Eqpt./Supplies	\$177,700.00	-\$12,860.00	\$164,840.00	\$0.00	\$164,840.00
Site Survey	\$30,000.00	\$66,500.00	\$96,500.00	\$0.00	\$96,500.00
Temporary Protection	\$230,000.00	-\$160,000.00	\$70,000.00	\$0.00	\$70,000.00
Temporary Utilities	\$249,260.00	-\$222,759.00	\$26,501.00	\$0.00	\$26,501.00
Testing and Balancing	\$160,000.00	\$320,000.00	\$480,000.00	\$0.00	\$480,000.00
Travel Expenses	\$5,000.00	\$18,000.00	\$23,000.00	\$0.00	\$23,000.00
Winterization CM	\$336,200.00	-\$189,670.00	\$146,530.00	\$0.00	\$146,530.00
TOTALS	\$ 8,757,570.00	\$ 916,453.00	\$ 9,674,023.00	\$ 1,070,714.00	\$ 10,744,737.00



November 17, 2023

Blanca Rivera
Senior Project Manager
Capital Development Board
555 W. Monroe St., 8th Floor
Chicago, IL 60661
blanca.rivera@illinois.gov

M. A. Mortenson Company
Chicago Office
300 Park Blvd., Suite 100
Itasca, IL 60143

Telephone: (847) 981-8600
Facsimile: (847) 981-8667
www.mortenson.com

RE: CDB 830-030-162
University of Illinois at Chicago, Computer Design Research and Learning Center (CDRLC)
Modification Request No. 03: Extend CM Basic Services & Fee (5) Months, January-May 2024

Blanca

Per approved Modification Request No. 02 Mortenson's extended CM Agreement Basic Services will expire on **31 December, 2023** based on a **03 October 2023** Substantial Completion date and a **31 December 2023** CDB Final Acceptance date. Multiple issues are affecting the Construction Phase that will push CDRLC project completion well past that date, requiring a modification to extend Mortenson services into 2024. Because this request involves added cost to the CDRLC project in excess of \$ 100,000 the CDB must obtain Board approval. Mortenson submits Modification Request No. 03 to the CDB in advance of the 21 November 2023 deadline to secure approval at the **12 December 2023** Board meeting, followed by the execution of a formal change to the CM Agreement by **31 December 2023**, the date that CM (M2) basic services expire.

1. Extended Construction Phase Impacts:

The CDB requested that Mortenson submit Modification Request No. 03 to further extend CM Basic Services an additional **five (5) months** based on the Contractor's projected **31 May 2024** Substantial Completion date. Multiple Using-Agency changes, design changes, existing unforeseen conditions, and the Contractor's actions and inactions will prolong the CDRLC project duration into January-February-March-April, and May 2024 exceeding the duration of our current CM Agreement.

Critical Path activities since delayed by the Contractor:

- Completion of exterior glazed window and curtainwall systems and joint sealants; multiple NCIs
- Completion of SBS roofing system installations at Level 3, Level 6 and penthouses; numerous NCIs
- Start and completion of architectural metal panel siding and louvers
- Completion of interior buildout and finishes; delayed by enclosure issues
- Start and completion of MEPFP equipment startup and commissioning
- Start and completion of photovoltaic panels atop completed and inspected roofs
- Start and completion of site work, site improvements, landscaping, pavements

The CM Closeout Phase and the 90-day Final Completion & Acceptance Phase (spec 01 32 00) commencement will be delayed until **01 June 2024** with a projected CDB Final Acceptance date of **31 August 2024**.

A. M3 Basic Services Adjustment:

Modification Request No. 03 requires CDB authorization to extend Construction Manager Agreement Basic Services five (5) additional months increasing our Basic Services Fee incrementally by **+\$ 1,039,528** from \$ 6,666,037 to **\$ 7,705,565**. Furthermore, increasing the Basic Services Fee requires the CDB to allocate an additional **+\$ 31,186** for Construction Administration Fee (3%) to be paid to the CDB in the first invoice following approval of this modification. The total impact on CM Basic Services Fee and CAF is **+\$ 1,070,714**.

Without a CDB authorized change to the CM Agreement increasing our Basic Services Fee to reconcile project delay impacts Mortenson will be hindered from continuing Construction Manager services beyond **31 December 2023**.

Upon CDB Board approval of this modification request please forward the formal CDB change to the Agreement document(s) for execution. Please let us know if you have any questions regarding Mortenson Modification No. 03 Extension of CM Basic Services. Thank you for your consideration.

Regards,



Robert M. O'Riordan
Sr. Project Manager
Mortenson Chicago

CC: David Heydenberk, Capital Development Board
Kenneth Watkins, Capital Development Board
Sheryl Van Anne, Mortenson Chicago
Joe Krueger, Mortenson Chicago
20090008 file

EXHIBITS:

- **Extended Construction Phase Impacts, January-May 2024 (Pages 3-6)**
 - Modification No. 3 APPENDIX A
 - 31 May 2024 Extended Staffing Matrix exhibit
 - 2024 Billing Rates (Schedule 2) calculated with 2.6 multiplier and +4% annual escalation

MODIFICATION

State of Illinois

CAPITAL DEVELOPMENT BOARD



Professional Services Agreement

Modification Number: **3**
 Project Number: **830-030-162**
 Date: **January 24, 2024**

Firm Name, Address
Mortenson Construction
 300 Park Blvd., Suite 100
 Itasca, IL 60143

Project Information
Construct A Computer Design Research and Learning Center
 University of Illinois - Chicago, Cook County
 Chicago, Cook County, Illinois

This Modification Changes the Scope of the Contract

Agreement Date: **2021-01-12** Contract: **21020810**

Scope/Purpose of this agreement modification: Provide additional Construction Management Services Fees due to extended project duration caused by delays in the Bidding Phase, Contractor ATP, and length of Construction. The Basic Services fees provide for the Construction Management Services necessary to accomplish the scope of work defined for this project, which shall be paid on a monthly basis on CM Schedule of Values approved by CDB. Also, update Project Schedule Dates for Substantial Completion and Final Acceptance, and Extend Contract Completion Date from 12/31/2024 to 05/31/2025. The attached Standard Certifications are hereby incorporated into the contract. The signature authority levels for modifications referenced in the SDC's are hereby amended to the following:
 Executive Director - \$100,000 to \$199,999; Deputy Director of Construction - \$75,000 to \$99,999; Construction Administrator - \$50,000 to \$74,999; Regional Manager - \$15,000 to \$49,999; Project Manager - \$0 to \$14,999; CDB Board shall approve all modifications exceeding the Executive Director's authority level.

Subject agreement amended as follows: Replace Appendix A - M2 with Appendix A - M3

AGREEMENT SUMMARY

Fee Description	Total Obligation Per Original Agreement	Total Amount of Previous Modifications	Total Obligation prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$5,776,277.00	\$889,760.00	\$6,666,037.00	\$1,039,528.00	\$7,705,565.00
Builders Risk for CM	\$256,683.00	-\$154,471.00	\$102,212.00	\$0.00	\$102,212.00
Contract Administration Fee,	\$173,200.00	\$26,693.00	\$199,893.00	\$31,100.00	\$230,993.00
Construction Testing	\$240,000.00	\$263,869.00	\$503,869.00	\$0.00	\$503,869.00
General/Laborer	\$915,170.00	\$29,670.00	\$944,840.00	\$0.00	\$944,840.00
General Liability Insurance	\$87,080.00	\$0.00	\$87,080.00	\$0.00	\$87,080.00
General Conditions	\$115,000.00	\$47,721.00	\$162,721.00	\$0.00	\$162,721.00
Job Site Office Eqpt./Supplies	\$177,700.00	-\$12,860.00	\$164,840.00	\$0.00	\$164,840.00
Site Survey	\$30,000.00	\$66,500.00	\$96,500.00	\$0.00	\$96,500.00
Temporary Protection	\$230,000.00	-\$160,000.00	\$70,000.00	\$0.00	\$70,000.00
Temporary Utilities	\$249,260.00	-\$222,759.00	\$26,501.00	\$0.00	\$26,501.00
Testing and Balancing	\$160,000.00	\$320,000.00	\$480,000.00	\$0.00	\$480,000.00
Travel Expenses	\$5,000.00	\$18,000.00	\$23,000.00	\$0.00	\$23,000.00
Winterization CM	\$336,200.00	-\$189,670.00	\$146,530.00	\$0.00	\$146,530.00
TOTALS	\$8,757,570.00	\$916,453.00	\$9,674,023.00	\$1,070,628.00	\$10,744,651.00

Prepared by: KRWatkins
 Kenneth Watkins Date

By: _____
 Using Agency approval Date

AE Firm name: **Mortenson Construction**

By: _____
 AE's Authorizing Representative Date

Reviewed: _____
 Contract Executive Date

Print AE name, Title: _____

Approved by: _____
 Regional Manager Date

By: _____
 Fiscal Date

Approved by: _____
 Legal Date

Final CDB
 authorization _____
 Print name/title Date

Project Number: 830-030-162

Description: Construct A Computer Design Research and Learning Center (CDRLC)
850 W. Taylor Street
Chicago, Cook County, IL

Using Agency: University of Illinois - Chicago

Architect/Engineer: Booth Hansen
333 S. DesPlaines Street, Suite 100
Chicago, IL 60661

Total Project Budget: \$124,800,000.00

Unobligated Funds: \$ 6,422,371.95

Total Spent to Date: \$ 51,567,500.70

Percent Complete: 57.7%



Project Manager: Blanca Rivera, Kenneth Watkins

Project History: The new 135,000 GFS Computer Design Research Learning Center (CDRLC) building provides the vitally needed space to accommodate the rapid growth of the Computer Science program, allows the department to consolidate a growing student body, and provides community spaces that can foster a social life within the computer design community and enrich connectivity to the broader community. The five-story structure will be the home of the Computer Science Department housing 16 classrooms, 100 faculty and staff offices, and 35 labs with collaborative and tutoring space.

The A/E team currently holds two separate construction phase services for the CDRLC project which are: 1) Construction Administration; and 2) Construction On-Site Representation. The current fees for both were based on 140 weeks of construction phase services, with a substantial completion date of January 5, 2024. The general contractor's new substantial completion date of May 31, 2024 extends the duration of construction by twenty-one (21) weeks. The A/E team is requesting a fee modification of \$205,569.00 to extend construction administrative services. Similarly, the extended duration of construction also results in more time needed for on-site representation; as such, the A/E Team is also requesting a fee modification of \$162,573.00 to extend construction on-site representation. Associated with this modification is an increase to the CDB contract administration fee in the amount of \$6,100.00.

PURPOSE OF THIS AGREEMENT MODIFICATION: We are requesting board approval of this modification in the amount of \$374,242.00 to extend the A/E construction phase services to the new substantial completion date of May 31, 2024.

SUBJECT AGREEMENT AMENDED AS FOLLOWS:

Fee Description	Total Obligation per Original Agreement	Total Amount of Previous Modifications	Total Obligation Prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$3,207,600.00	\$657,161.00	\$3,864,761.00	\$205,569.00	\$4,070,330.00
Additional Services	\$804,856.00	\$85,214.00	\$890,070.00	\$0.00	\$890,070.00
Contract Administration Fee	\$120,300.00	\$22,200.00	\$142,500.00	\$6,100.00	\$148,600.00
On-Site Representative Reimbursement	\$361,395.00	\$940,826.00	\$1,302,221.00	\$162,573.00	\$1,464,794.00
Design Testing	\$23,900.00	\$0.00	\$23,900.00	\$0.00	\$23,900.00
Construction Testing	\$0.00	\$10,500.00	\$10,500.00	\$0.00	\$10,500.00
Print Bid Documents	\$47,673.00	\$0.00	\$47,673.00	\$0.00	\$47,673.00
LEED Registration Fee	\$11,000.00	\$0.00	\$11,000.00	\$0.00	\$11,000.00
TOTALS	\$4,576,724.00	\$1,715,901.00	\$6,292,625.00	\$374,242.00	\$6,666,867.00

MODIFICATION

State of Illinois

CAPITAL DEVELOPMENT BOARD



Professional Services Agreement

Modification Number: **6**
 Project Number: **830-030-162**
 Date: **January 30, 2024**

Firm Name, Address

Booth Hansen, Ltd.
 333 S DesPlaines Street, #1S
 Chicago, IL 60661

Project Information

Construct A Computer Design Research and Learning Center
 University of Illinois - Chicago, Cook County
 Chicago, Cook County, Illinois

This Modification Changes the Scope of the Contract

Agreement Date: 2020-07-07 Contract: 20022810

Scope/Purpose of this agreement modification: Construction Duration is being increased from 140 weeks to 161 weeks. Increase Basic Services Fee in the amount of \$205,569 for construction phase basic services associated with the addition of 21 weeks.

In addition, add \$162,573 to on-site observation to 1. Provide for the full time observer, identified as Michael Jividen, who shall be paid based on actual hourly direct wage expense (DWE) multiplied by the CDB standard 2.60 overhead and profit multiplier, and 2. Provide for supplemental on-site observation by the AE, MEP & Structural Engineers heavily involved in the design intent of the project, and/or AE or Engineer of Record, as may be necessary, or otherwise requested by CDB, who shall be paid based on their actual billable rates in effect at that time. The designated full time observer shall not be replaced without advance notice, and prior written approval of CDB.

Also, change Project Schedule Dates for Substantial Completion and Final Acceptance, and extend Contract Completion Date from 04/08/2025 to 05/31/2025, to allow for Completion of Construction, Project Closeout, and Final Payments. The attached Standard Certifications are hereby incorporated into the contract.

The signature authority levels for modifications referenced in the SDC's are hereby amended to the following:

Executive Director - \$100,000 to \$199,999; Deputy Director of Construction - \$75,000 to \$99,999; Construction Administrator - \$50,000 to \$74,999; Regional Manager - \$15,000 to \$49,999; Project Manager - \$0 to \$14,999; CDB Board shall approve all modifications exceeding the Executive Director's authority level.

Subject agreement amended as follows: Replace Appendix A - M5 with Appendix A - M6

AGREEMENT SUMMARY

Fee Description	Total Obligation Per Original Agreement	Total Amount of Previous Modifications	Total Obligation prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$3,207,600.00	\$657,161.00	\$3,864,761.00	\$205,569.00	\$4,070,330.00
Additional Services	\$804,856.00	\$85,214.00	\$890,070.00	\$0.00	\$890,070.00
Contract Administration Fee,	\$120,300.00	\$22,200.00	\$142,500.00	\$6,100.00	\$148,600.00
On-Site Representative Reim	\$361,395.00	\$940,826.00	\$1,302,221.00	\$162,573.00	\$1,464,794.00
Design Testing	\$23,900.00	\$0.00	\$23,900.00	\$0.00	\$23,900.00
Construction Testing	\$0.00	\$10,500.00	\$10,500.00	\$0.00	\$10,500.00
Print Bid Documents in excess	\$47,673.00	\$0.00	\$47,673.00	\$0.00	\$47,673.00
LEED Registration Fee	\$11,000.00	\$0.00	\$11,000.00	\$0.00	\$11,000.00
TOTALS	\$4,576,724.00	\$1,715,901.00	\$6,292,625.00	\$374,242.00	\$6,666,867.00

Prepared by: _____
 Kenneth Watkins Date

By: _____
 Using Agency approval Date

AE Firm name: **Booth Hansen, Ltd.**

By: _____
 AE's Authorizing Representative Date

Reviewed: _____
 Contract Executive Date

Print AE name, Title: _____

Approved by: _____
 Regional Manager Date

By: _____
 Fiscal Date

Approved by: _____
 Legal Date

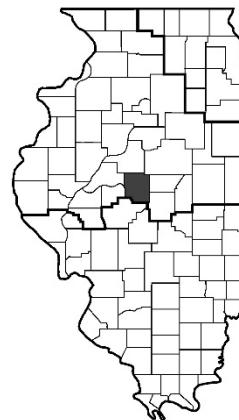
Final CDB authorization _____
 Print name/title _____ Date

CDB Project No. 120-135-070

Upgrade Ash Handling System
Logan Correctional Center
Lincoln, Logan County, IL

Subject: Single Bid Award

CDB Project Manager: Heather Oxley



Project History:

The coal conveyance system at the power plant building has been deteriorating for some time. The scope of work for this project includes upgrades to the existing drag chain feeder system on the coal conveyor and repairs to the structural steel in the coal bunkers. Work also includes replacing the existing coal yard hopper and feeder system. A new screw ash conveyor system shall be installed at each boiler ash pit and a drag-chain type ash conveyor system which will convey boiler bottom ash from each boiler's ash pit to a truck/dumpster located on a new concrete driveway will also be installed. This work will allow the Logan Correctional Center to be compliant with Illinois Environmental Protection Agency (IEPA) regulations.

Requested Action:

Bids were received on October 17, 2023, and a single bid was received for the general trade. Fourteen plan rooms and eighteen contractors held drawings for the project.

This is an atypical project for Central Illinois. Most contractors indicated that they were either too busy or did not have enough experience with a conveyance system project when we contacted them to determine their interest in bidding. The contractors were concerned that the age of the plant combined with the scope of work was outside their normal expertise.

Architect/Engineer: Middough Inc.
700 Commerce Dr. Suite 200
Oak Brook, IL 60523
630-756-7203

<u>TRADE</u>	<u>BASE BID</u>	<u>ESTIMATE</u>	<u>% DIFFERENCE</u>
General	\$3,599,000.00	\$2,688,100.00	+33.89%

Both the A/E and the CDB Staff recommend that the award be made to:

PJ Hoerr Inc.
107 North Commerce Place
Peoria, IL 61604

General Trade Work: \$3,599,000.00



Capital Development Board

Building a Better Illinois

STATE OF ILLINOIS
JB Pritzker, GOVERNOR
JIM UNDERWOOD, EXECUTIVE DIRECTOR

BOARD MEMBERS
Eileen Rhodes, Chair
Pam McDonough, Vice Chair
Saul Morse
Beverly Potts
Glyn M. Ramage
Paul Roldan
Tamakia J. Edwards

December 13, 2023

To: James Cockrell, Regional Manager CDB Region Two
From: Heather Oxley, CDB Project Manager
Project: 120-135-070
Description/Location: Upgrade/Replacements Ash Handling System
Logan County Correctional
Lincoln, Logan County, Illinois

RE: Single Bidder

On Tuesday, October 17, 2023, the bids were opened for Project #120-135-070 Upgrade Ash Handling System at Logan Correctional Center in Logan County.

One (1) bid was received by the Capital Development Board. The bid tabulation summary for the above referenced project is:

	A/E Estimate	Bidder #1 – PJ Hoerr
Base Bid Amount	\$2,942,920.00	\$3,599,000.00

The Boiler House (C2818) contains three (3) coal-fired boilers and one (1) propane boiler to provide. The scope of work specifies the upgrade of the existing ash collection system for the three (3) coal-fired boilers. Upgrades to the coal conveyor existing drag chain feeder system and repairs to the structural steel in the coal bunkers are included in this project.

The contractor shall replace the existing coal yard hopper and feeder system. A new screw ash conveyor system shall be installed at each boiler ash pit and a drag chain type ash conveyor system which will convey boiler bottom ash from each boiler's ash pit to a truck/dumpster located on a new concrete driveway, north of the existing building. Replace structural steel at existing coal conveyor system. The contractor shall provide electrical power for all new equipment to be installed inside and outside the Boiler House. Prior to the start of the bottom ash collection upgrades, the contractor shall make repairs to the existing propane tank and Boiler #4 so that the Using Agency can provide process steam to the Correctional Center while the coal-fired boilers are out of service.

Bids were received on 10.17.23. PJ Hoerr, the Single Bidder for this General Trade project was the only Contractor who showed serious interest. Bid Documents were issued to 14 Plan Rooms and 18 Contractors received the Bid Documents.

This is an atypical project for Central Illinois. Most Contractors when contacted for status of interest in bidding, were either too busy or did not have enough experience with a conveyance system project. Contractors did not want this project to be their first due to age of the Power Plant combined with the scope. Therefore AE Middough and CDB PM are asking that this project be awarded to PJ Hoerr Inc.

Respectfully,



Heather Oxley

Region Two Senior Project Manager
Capital Development Board

Source	Name	CDB Prequalified	Address	Contact name	Contact phone	Contact email	Transmittal Issue?	Bid Docs delivered	Addendum delivered	Attend Pre Bid	Intending to Bid?	Last Communication
PLAN ROOM												
Plan Room	African American Contractors Association		P.O. Box 19670, Chicago, IL 60619	Michael Sharees	773.891.3090	aacanatlassoc@gmail.com		Yes	1, 2, 3, 4			
Plan Room	Assoc. of Asian Construction Enterprises		712 W. Root St., Chicago, IL 60609	Perry Nakachi	847.525.9693	nakmancorp@aol.com		Yes	1, 2, 3, 4			
Plan Room	Black Contractors United		12000 S. Marshfield Ave., Calumet Park, IL 60827		708.389.5730	bcunewera@att.net		Yes	1, 2, 3, 4			
Plan Room	Central IL Plan Room				217.679.1077	plans@ciplanroom.com		Yes	1, 2, 3, 4			
Plan Room	Construct Connect - GA		30 Technology Prkwy. South, Ste. 100, Norcross, GA 30092	Content (Processing Center)	513.645.8004	content@ConstructConnect.com		Yes	1, 2, 3, 4			
Plan Room	Construct Connect - OH		3825 Edwards Rd., Ste. 800, Cincinnati, OH 45209	Jessica Shipp (Secondary)	513.458.8581	Jessica.shipp@constructconnect.com		Yes	1, 2, 3, 4			
Plan Room	Keith Navale Planning (Dodge Data & Analytics)		7265 Kenwood Road, Cincinnati, OH 45236	Keith Navale	413.340.0543	keith.navale@construction.com		Yes	1, 2, 3, 4			
Plan Room	Federation of Women Contractors		4210 W. Irving Park Rd., Chicago, IL 60641	Debby Gidley	312.360.1122	fwcchicago@aol.com		Yes	1, 2, 3, 4			
Plan Room	Greater Peoria Contractors & Suppliers		1811 W. Altorfer, Peoria, IL 61615		309.692.5710	info@gpcsa.org		Yes	1, 2, 3, 4			
Plan Room	Hispanic American Construction Industry Ent. Assoc.		650 W. Lake St., Ste. 415, Chicago, IL 60661		312.575.0389 cell 630.501.7448	jcalahorrano@haciaworks.org		Yes	1, 2, 3, 4			
Plan Room	Latin American Chamber of Commerce		3512 W. Fullerton Ave., Chicago, IL 60647	D. Lorenzo Padron	773.252.5211	d.lorenzopadron@laccusa.com	Bad Email	No	--			
Plan Room	Northern IL Building Contractors Assoc.			Pat Lamb	815.229.5636	info@nibca@build		Yes	1, 2, 3, 4			
Plan Room	Quincy Plan Room		201 Broadway, Quincy, IL 62301		217.222.0558	sandym@michelmann.us		Yes	1, 2, 3, 4			
Plan Room	Roseland Community Collaborative		4655 S. King Dr., Ste. 203, Chicago, IL 60653		312.391.9054	RoselandCC@yahoo.com	Bad Email	No	--			
BIDDERS												
Contractor	Alberici Construction, Inc.	Yes	8800 Page Avenue St. Louis, MO 63114	Kristin Kalous	314.733.2427	kkalous@alberici.com		Yes	1, 2, 3, 4	No		10/2 - Left vm for Kristin (found correct ph #)
Contractor	Berglund Construction	Yes	3301 Fields S. Crive Champaign, IL 61822	Kevin Berglund	219.331.5470 c	kberglund@berglundco.com		Yes	1	No	NO	10/2 - spoke to Kevin Berglund - sent him the info & info for site walkthru 10/2 Kevin emailed they are passing on this
Contractor	CAD Construction Inc.	Yes	508 E. Pearl St., Unit A-1, Tremont, IL 61568	Nate Zeltwanger	309.925.2092	nate@cadconstructioninc.com		Yes	1, 2, 3, 4	No		10/2 left msg w/Brandy for Nate - he will be bk in the ofc after a site visit today
Contractor	CCC Holdings, Inc.	Yes	18660 Graphics Dr., Ste. 200, Tinley Park, IL 60477	Tina Royse	773.359.6591	troyse@ccc-chicago.com		Yes	1	No	NO	10/2 left vm for Tina - Tina was told they will not be looking at this bid - she has no reason 9/21/23 contacted A-E for info
Contractor	Coltrane Systems	Yes	1800 E. Adams St., Springfield, IL 62703 1661 Jody Industrial Dr., St. Louis, MO 63132	Ken Brandt	314.852.3119 c 314.644.4700 x510	kbrandt@coltranesystems.com		Yes	1, 2, 3, 4	No		10/3 Rec'd info for Ken from CBD
Contractor	Core Construction Services of IL, Inc.	Yes	601 SW Water Street, Ste. 101, Peoria, IL 61602	Andrew Arnold	309.404.4700	andrewarnold@coreconstruction.com		Yes	1	No	NO	10/2 left vm for Andrew 10/2 Andrew called bk - not bidding anything for CBD rt now - too swamped
Contractor	Diamond Design & Construction, Inc.	Yes	20088 Shaker Lake Rd., Bloomington, IL 3003 E. Oakland Ave., Bloomington, IL 61704		309.662.8899	info@diamonddesignconstruction.com		No	--	No		9/8 A-E contacted contractor about interest in project
Contractor	Evans Construction Co.	Yes	1900 E. Washington St., Springfield, IL 62703	Don Evans	217.525.1456 p 217.306.0386 c	don@evansconst.com		Yes	1, 2, 3, 4	No		10/2 Spoke w/Tracy - Don is on vacation (only 1 handling this) left a vm for Don
Contractor	Felmley-Dickerson Co.	Yes	803 E. Lafayette St., Bloomington, IL 61701	Jim Meek	309.828.4317	jimmeek@fdco.com		Yes	1, 2, 3, 4	No		10/2 left a vm for Jim
Contractor	Harold O'Shea Builders, Inc.	Yes	3401 Constitution Drive Springfield, IL 62711	Mike O'Shea	217.522.2826	mikeoshea@osheabuilders.com		Yes	1	No	NO	10/2 spoke to John Feekes - not bidding - has prior commitments
Contractor	Hein Construction	Yes	9130 N. Industrial Road Peoria, IL 61615	Dolton (estimating)	309.691.4774	ciaron@heinconstruction.com		Yes	1	No	NO	10/2 spoke to Dolton - they don't go out towards Lincoln - ignored this - not bidding
Contractor	Henson Robinson Company	Yes	3550 Great Northern Avenue Springfield, IL 62711	John Terneus Norissa Stetter	217.544.8451	jterneus@henson-robinson.com nstetter@henson-robinson.com		Yes	1, 2, 3, 4	No	Yes	9/13 John emailed w/conf. - Yes, we plan to bid 9/8 - John indicated attending pre-bid
Contractor	Johnco Construction, Inc.	Yes	107 W. First St., Mackinaw, IL 61755	Paul Berns	309.359.3000 ext 2 309.354.1134	paulberns@johncoconstruction.com		Yes	1, 2, 3, 4	No		10/2 left a vm for Paul
Contractor	Laverdiere Construction, Inc.		4055 W. Jackson, Macomb, IL 61455	Billy Cramer Jodi Anderson (ofc asst)	309.333.2868 309.837.1258 o 309.833.4993 f	BCramer@lavconinc.com Janderson@lavconinc.com		Yes	1, 2, 3, 4	No		10/5 Jodi Anderson emailed - req to recv. Updates - she processes all incoming bidding info. 10/3 Rec'd info for Ken from Emil
Contractor	Otto Baum	Yes	866 N. Main St Morton, IL		309.266.7114	info@ottobaum.com		No	--	No		9/8 A-E contacted contractor about interest in project
Contractor	P.J. Hoerr, Inc.	Yes	107 N. Commerce Pl., Peoria, IL 61604	Craig Smith Mike	309.688.9567	craig@pjhoerr.com mikew@pjhoerr.com		Yes	1, 2, 3, 4	Yes	Yes	10/5 Craig Smith emailed confirmation - bidding 10/2 left a vm for Craig on confirmation of bidding
Contractor	Pals Electric, Inc.	Yes	12900 N. 1775th Rd., Teutopolis, IL 62467 (P.O. Box 662)	Kevin Barnes	217.857.3683	kevin@palselectricinc.com		Yes	1, 2, 3, 4	No		10/2 Kevin out til Wed., spoke w/Chad - he will follow up w/Kevin & hv him get bk to me. Kevin did a walkthru on Fri since they are doing work out there 9/27 Kevin requested the Bidders list Contacted A-E for info on 09/21/23
Contractor	Ringland-Johnson Construction	Yes	1725 Huntwood Dr., Cherry Valley, IL 61016	Sarah Seaberg	815.339.0708	Sseaberg@ringland.com		No	--	No	NO	10/9 Sarah emailed - not bidding this one - keep on list for future projs. 9/8 contacted about interest in project
Contractor	RD Lawrence Construction	Yes	603 N. Amos Avenue Springfield, IL 62702	Caitlin Goetz Jeremy Meats	217.787.1384	cgoetz@rdlawrence.com jmeats@rdlawrence.com info@rdlawrence.com		Yes	1	No	NO	10/2 spoke to Caitlin - not bidding, they are too slammed w/work rt now & will contact us if that changes
Contractor	River City Construction, LLC	Yes	101 Hoffer Lane, East Peoria, IL 61611 1509 N. Main St., Benton, IL 62812	Josh Sanders Kent Kampwerth	309.694.3120 618.435.2612	kkampwerth@ccllc.com		Yes	1, 2, 3, 4	No		10/2 Called the E. Peoria office - Kent K. is at the Benton office - called and left a vm for Kent
Contractor	United Contractors Midwest, Inc.	Yes	1501 N. Cottage St., Bloomington, IL 61701	Andrew Hill	217.546.6192 o 309.827.0091	andrew.hill@ucm.biz contact@ucm.biz		Yes	1, 2, 3, 4	No		10/5 Andrew Hill emailed me - will send him all info 10/2 called for estimating - told me Andrew Hill for the proj. - left a vm

Project Number: 818-010-096

Description: Construct Performing Arts Center
Western Illinois University
Macomb, McDonough County, IL

Using Agency: Western Illinois University

Architect/Engineer: Cannon Design
225 North Michigan Ave, Suite 110
Chicago, IL 60601

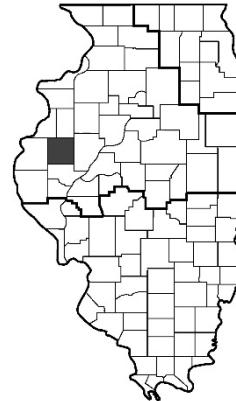
Total Project Budget: \$118,545,170.00

Unobligated Funds: \$ 6,215,461.00

Total Spent to Date: \$ 38,828,127.33

Percent Complete: 20%

Project Manager: Heather Oxley



PROJECT HISTORY: Western Illinois University is a 110-building campus established in 1899.

The scope of work for this project provides for the construction of an approximately 100,000 square foot performing arts center, including a 900-seat performance auditorium and convocation center for recitals, lectures, graduation ceremonies, and local art and civic functions.

PURPOSE OF THIS AGREEMENT MODIFICATION: This modification will provide for additional funding for in-shop steel testing and inspection during fabrication and installation and any additional construction testing as needed.

The original contract was negotiated before design started, therefore, when the original contract was negotiated, the full scope for steel inspections and additional construction testing was not known and was not fully included in the design. Cannon Design did include a budget for construction testing services; however, it was unknown at the time how many consultants/vendors would be needed to complete the project. These additional funds are necessary to continue steel and other construction testing and inspection through completion of the project to ensure building stability.

SUBJECT AGREEMENT AMENDED AS FOLLOWS:

Fee Description	Total Obligation per Original Agreement	Total Amount of Previous Modifications	Total Obligation Prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$743,905.00	\$4,471,036.00	\$5,214,941.00	\$0.00	\$5,214,941.00
Additional Services	\$0.00	\$1,635,625.00	\$1,635,625.00	\$12,250.00	\$1,647,875.00
Contract Administration Fee	\$22,300.00	\$183,000.00	\$205,300.00	\$300.00	\$205,600.00
On-Site Representative Reimbursement	\$0.00	\$324,000.00	\$324,000.00	\$0.00	\$324,000.00
Sub-Soil Investigation	\$0.00	\$15,000.00	\$15,000.00	\$0.00	\$15,000.00
Construction Testing	\$0.00	\$371,273.00	\$371,273.00	\$0.00	\$371,273.00
Construction testing	\$0.00	\$0.00	\$0.00	\$255,413.00	\$255,413.00
LEED Document Review Fee	\$0.00	\$10,000.00	\$10,000.00	\$0.00	\$10,000.00
Site Survey	\$0.00	\$5,000.00	\$5,000.00	\$0.00	\$5,000.00
Travel Expenses	\$0.00	\$72,450.00	\$72,450.00	\$0.00	\$72,450.00
TOTALS	\$766,205.00	\$7,087,384.00	\$7,853,589.00	\$267,963.00	\$8,121,552.00



December 19, 2023

To: James Cockrell, Regional Manager CDB Region Two
From: Heather Oxley, CDB Project Manager
Project: 818-010-096
Description/Location: Construct Center for Performing Arts
Western Illinois University
Macomb, McDonough County, Illinois

RE: Contract Modification Eight Steel Testing During Fabrication

Per Cannon Design and CDB Project Manager:

Additional services requested By AE Cannon Design for Steel Inspections and Testing at two different off Construction Site Fabrication Facilities. This Inspection and Testing work will be completed by Terracon, the project's testing and inspection Vendor who is contracted and supervised by Cannon Design.

When the original contract was negotiated, Steel Inspections and Testing off project construction site were not included in original contract between Cannon Design, and Terracon. Per Cannon Design, this happened because the original contract was negotiated before Design started. Cannon Design did not know how Construction was going to be handled at that time.

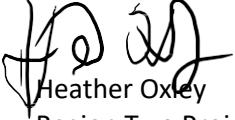
However, Cannon Design had a budget amount for testing services. The project is using that money now to keep Steel Inspections on track. Project is 55% through budget amount. That funding will run out before June 2024.

The Steel Testing and Inspection is critical to the project for building stability and life safety of occupants.

The funds for steel testing are budgeted for the remainder of the project and will cover other areas as needed.

Standard Certifications January 2023 are hereby incorporated into Contract.

Respectfully,


Heather Oxley
Region Two Project
Manager Capital
Development Board

MODIFICATION

State of Illinois

CAPITAL DEVELOPMENT BOARD



Professional Services Agreement

Modification Number: **8**
 Project Number: **818-010-096**
 Date: **December 22, 2023**

Firm Name, Address
OWP/P Cannon Design, Inc.
 225 N Michigan Ave., #1100
 Chicago, IL 60601

Project Information
Performing Arts Center
 Western Illinois University - Macomb, McDonough County
 Macomb, McDonough County, Illinois

This Modification Establishes a Full Service Agreement

Agreement Date: **2020-09-17** Contract: **21000610**

Scope/Purpose of this agreement modification: The scope of Modification 8 provides for additional funding for Steel Testing. This additional testing will comprise in -shop steel testing and inspection during steel fabrication and installation. Steel Testing was not included in the original agreement as it was not known exactly what the scope would be before Project Design started. Steel Testing is critical to the project for building stability and life safety of occupants. Additional services from Cannon are also required for testing documentation and processing.

The Standard Certifications dated January 2023 are hereby incorporated into this contract.

Subject agreement amended as follows: **teel ix A - M7 with Appendix A - M8**

AGREEMENT SUMMARY

Fee Description	Total Obligation Per Original Agreement	Total Amount of Previous Modifications	Total Obligation prior to this Modification	Total Amount of this Modification	Total Agreement Obligation including this Modification
Basic Services Fee	\$743,905.00	\$4,471,036.00	\$5,214,941.00	\$0.00	\$5,214,941.00
Additional Services	\$0.00	\$1,635,625.00	\$1,635,625.00	\$12,250.00	\$1,647,875.00
Contract Administration Fee,	\$22,300.00	\$183,000.00	\$205,300.00	\$300.00	\$205,600.00
On-Site Representative Reim	\$0.00	\$324,000.00	\$324,000.00	\$0.00	\$324,000.00
Sub-Soil Investigation	\$0.00	\$15,000.00	\$15,000.00	\$0.00	\$15,000.00
Construction Testing	\$0.00	\$371,273.00	\$371,273.00	\$0.00	\$371,273.00
Construction testing	\$0.00	\$0.00	\$0.00	\$255,413.00	\$255,413.00
LEED Document Review Fee	\$0.00	\$10,000.00	\$10,000.00	\$0.00	\$10,000.00
Site Survey	\$0.00	\$5,000.00	\$5,000.00	\$0.00	\$5,000.00
Travel Expenses	\$0.00	\$72,450.00	\$72,450.00	\$0.00	\$72,450.00
TOTALS	\$766,205.00	\$7,087,384.00	\$7,853,589.00	\$267,963.00	\$8,121,552.00

Prepared by: _____
 Heather Oxley Date

By: _____
 Using Agency approval Date

AE Firm name: **OWP/P Cannon Design, Inc.**

By: _____
 AE's Authorizing Representative Date

Reviewed: _____
 Contract Executive Date

Print AE name, Title: _____

Approved by: _____
 Regional Manager Date

By: _____
 Fiscal Date

Approved by: _____
 Legal Date

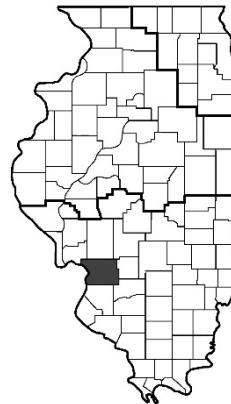
Final CDB
 authorization _____
 Print name/title _____ Date

CDB Project No. 104-140-003

Renovate Visitor's Center/ Building Systems
Lewis & Clark Historic Site
Hartford, Madison County, IL

Subject: Single Bid Award

CDB Project Manager: Daniel Johnson



Project History:

The scope of work for this project provides for replacing portions of the exterior cedar siding, cleaning the limestone and brick veneer, painting all exterior cedar siding, sealing joints / seams in the existing standing seam roof, and repairing interior finishes damaged by water infiltration. It also provides for upgrades to the heating, cooling, and ventilation systems throughout the building along with disconnecting power to the existing relief fan and providing a new single point connection to the new relief fan. Wall mounted exterior light fixtures and the data device will be removed and replaced. The track lighting in the exhibition hall will be removed, replaced, and expanded. New visual projection equipment will be installed in the theater, as well as the lighting in the gallery; integral automated lighting controls will be installed for both.

Requested Action:

Bids were received on October 31, 2023, and a single bid was received for the electrical trade. Five bids were received for the general trade. Three (3) electrical contractors, six (6) general contractors, and seven (7) plan rooms held drawings for the project.

This was the second time this project had bid. The first bid was held on June 27, 2023, and a single bid was received for both the general and electrical trades and both bids were over the A/E estimate. The using agency, CDB, and the A/E determined that the best solution was to rebid the project and work to garner more interest in bidding.

Architect/Engineer: Evan Lloyd Associates, Inc.
1630 South Sixth Street
Springfield, IL 62703
217-789-7011

<u>TRADE</u>	<u>BASE BID + ALT 1</u>	<u>ESTIMATE</u>	<u>% DIFFERENCE</u>
Electrical	\$263,690.00	\$156,796.00	+68.17%

Both the A/E and the CDB Staff recommend that the award be made to:

Pyramid Electrical Contractors, Inc.
300 Monticello Place
Fairview Heights, IL 62208

Electrical Work: \$263,690



M E M O R A N D U M

DATE: December 19, 2023

TO: David Ealey

FROM: Daniel Johnson

RE: Single Bid
104-140-003
Renovate Visitor's Center/ Building Systems
Lewis & Clark Historic Site, Hartford, Madison County, IL

Project Team: Evan Lloyd Associates, Inc. Tyler Stephens

CDB working with Evan Lloyd Associates put the Lewis & Clark Visitor's Center project out for bid in May/ June of 2023. We only received a single bid for both the General and Electrical packages and both bids were over the AE Estimate. The using agency, CDB, and the AE agreed that a re-bid would be the best solution based on the feedback the AE received from the contractors interested in the project.

The project was re-advertised with no changes to the bid documents for late October and early November 2023, respectively. The Electrical Bid was received on October 31, 2023. We received a single bid and it was about 70% over the AE Estimate. We received the General Bid on November 14, 2023. We received five (5) bids and the lowest bidders were about 45% over the AE Estimate. Although both bids were over the AE Estimate, CDB had enough available funds for the project to move forward.

The AE has been in contact with the potential contractors requesting information on the bidders and lack there-of. The following are what they believe are the contributing factors to the single bid:

1. Several contractors stated they just had too much work and would not be able to take on the project.
2. Several contractors stated they did not have or were unable to get enough laborers to perform the work.
3. Several contractors stated they had concerns over working around any museum displays and insurance for any displays damaged during construction.
4. The AE did not update their PPCB and estimate during the re-bid and therefore did not account for labor material increases.

November 28, 2023

Daniel Johnson
Capital Development Board
401 South Spring, 3rd Floor
Springfield, Illinois 62704

**RE: Renovate Visitor Center/Building Systems
Lewis and Clark State Historic Site
Madison County, Illinois
COB Project No.: 104-140-003 (Ph 1)**

Mr. Johnson,

I have reviewed the Project Proposed Project Cost Budget (PPCB) Estimate and the actual Bid Tabulation for the above-referenced project. The base bid estimate for this project, delivered to the project manager with our final submission (Bid documents), was \$171,930.30 and the Alternate Bid estimate was \$7,996.00. We have calculated our estimate for the combined base and alternate bids is less than the submitted apparent low bid by app. 46%.

Pyramid Electric

Base Bid: \$257,850.00

There was only one electrical bidder. Evan Lloyd Associates made every effort to create a competitive bidding environment by reaching out to numerous electrical contractors directly including Wissehr Electric, GRP Mechanical, Guarantee Electric, JF Electric, Brown Electric, Clinton Electric, Electroco Inc., Keith Martin Electric Inc., Kohrmann Electric, MAC Electric, MC Electric, and Russell Electric. In addition to Evan Lloyd's efforts, the bidding documents were available via various plan rooms serving the entire State of Illinois including Southern IL Builders, Construct Connect, Dodge Connect, Reed Construction, Greater Peoria Contractors, Bid Tool, and Central Illinois Plan Room.

Material increases were a factor due to the time between our last estimate (03/06/2023) and the bid date of 10/31/2023. Other factors that may be involved in our estimate being low:

- A) We did not include a painting number in our estimate. In slightly relocating the track lighting, touch up was included. The work will be required from a man-lift and is around museum displays. This will require more labor than we had estimated.
- B) The electrical work required will be required to be performed from a man-lift and will be around museum displays. This will require more labor than we had estimated.
- C) Available labor likely also factored into the additional cost.
- D) We did not update our estimate prior to the re-bid.

I had a brief discussion with Pyramid Electric after the first bid to discuss these items and feel they encapsulate the difference between our estimate and the bid numbers.



If you have any questions or comments, feel free to call me.

Sincerely,

A handwritten signature in blue ink that reads "M D MITT".

Michael Mitchell, PE
Project Engineer
RTM Engineering Consultants

Capital Development Board for Illinois - Illinois Department of Natural Resources

ELA 19-075

Renovate Visitor's Center / Building System

Lewis & Clark State Historical Site

Hartford, Madison County, Illinois

CDB # 104-140-003

Bid Opening: General - November 14, 2023 @ 2:00 p.m.

DNR # 4-20-008

Electrical - October 31, 2023 @ 2:00 p.m.

Prepared By: Evan Lloyd Architects, 1630 South Sixth Street, Springfield, Illinois 62703 (217)789-7011

	Company	Address	Contact	Phone	Email	Addenda 1	Addenda 2	Addenda 3
1	Dodge Data & Analytics	7265 kenwood Road, Suite 200 Cincinnati, OH 45236			support@construction.com			
2	Reed Construction Data	30 Technology Parkway South, Suite 100 Norcross, GA			rcdcntralnews@reedbusness.com			
	Construct Connect	30 Technology Parkway South, Suite 100 Norcross, GA	Michael Stubbs	770.417.4000 513.645.8004	content@constructconnect.com			
	Greater Peoria Contractors & Suppliers Assoc.	1800 West Altorfer Peoria, IL 61615			info@gpcsa.org			
	Capitol Blueprint	1313 South 1st St. Springfield, IL 62074			jobs@capitolblueprint.com			
	Springfield Repographics	1620 S. 5th Street Springfield, IL 62703	Steve Wakefield		service@sprigfieldrepro.com			
	Southern Illinois Builders Assoc.	1468 Green Mount Road PO Box 1390, O'Fallon, IL 62223	Stephanie Foster	618.624.9055	dmr@siba.agc.org			
	IDNR		John Cronin		john.cronin@illinois.gov			
	Blinderman		Stephen Harlovic		sharlovic@blinderman.com			
	Heartland Services		Ken J.	618-357-3850	kenj@heartlandservicesinc.com			
	Pointer Electric		Eric Pointer	618-498-2333	pointerelectric@gtec.com			
	IDNR		Michael Rhodes		michael.w.rhodes@illinois.gov			
	The 4th Distribution		Sam Stidwell		info@the4thdistribution.com			
	Bid Tool				plans@bidtool.net			
	Bruce Unterbrink Construction		Bruce Unterbrink	(618) 664-4005	buci@sbcglobal.net			
	IDNR		Brad Winn		brad.winn@illinois.gov			
	Camp Electric		Jonathan Wolff	618-462-9287	iwolff@campelectric.com			
	Lake Contracting			(618) 824-6522				
	Holland Construction			618-277-8870				
	Contra			618-931-3500				
	Litteken Construction			618-526-2174				

SUBJECT: Staff Recommendations for Board Selection of Architect/Engineers

Project Number	Firm/Job Description	Estimated Total Project Cost
040-010-131	Replace Roofing Systems Department of Veterans' Affairs Illinois Veterans' Home at Quincy - Adams County	\$6,152,900

RECOMMENDED FIRMS IN ALPHA ORDER:

Architechnics, Inc.
Design Mavens Architecture PLLC
GreenAssociates Inc

A/E SELECTION COMMITTEE RECOMMENDATIONS

1/9/2024



CDB PROJECT NO: 040-010-131

PROJECT DESCRIPTION: Replace Roofing Systems

PROJECT LOCATION: Department of Veterans' Affairs

Illinois Veterans' Home at Quincy - Adams County

APPROPRIATION AMOUNT: \$6,152,900

ESTIMATED TOTAL PROJECT COST: \$6,152,900

PROJECT SCOPE OF WORK:

The Illinois Veterans' Home at Quincy is a 209 acre, 48-building facility constructed in 1886.

The scope of work provides for removing and replacing approximately 140,000 square feet of roofing, including all attendant accessories. The work also provides for painting, repairs, and restoration of historic elements.

Hazardous materials may be encountered.

The State Historic Preservation Office should be consulted during every phase of this project.

The A/E is encouraged to include independent cost estimators on their teams to verify estimates are in line with current market conditions to avoid project bids that exceed the available funding for the project. A/E estimates should be updated and verified at each stage of the project in accordance with the Design and Construction Manual. Designers are reminded that their Professional Services Agreements make them responsible for providing a design that is within budget and they can be held responsible for redesign of the project should bids received exceed project funding.

A combined MBE/WBE goal of 20 percent is applicable to the A/E team. Some level of participation from both MBE and WBE firms is required to satisfy this goal (this requires including one or more MBE AND one or more WBE firms on the team).

A VBE/PBE goal of 3 percent is applicable to the A/E team.

PROFESSIONAL SERVICES BULLETIN VOLUME: 306

SUBJECT: *Board Concurrence/Design-Build*

Project Number	Firm/Job Description	Estimated Total Project
630-442-057	Construct Materials Lab Department of Transportation Administration/Hanley Building- Springfield, Sangamon County	\$63,400,098

SHORTLISTED FIRMS IN ALPHA ORDER:

- Core Construction Services of Illinois, Inc.
- Korte Construction Company, dba The Korte Company
- Walsh Construction Company, LLC

**A/E SELECTION COMMITTEE RECOMMENDATIONS
01/09/2024**

CDB PROJECT NO: 630-442-057

PROJECT DESCRIPTION: Construct Materials Lab

PROJECT LOCATION: Department of Transportation
Administration/Hanley Building - Springfield, Sangamon County

PUBLISHED PROJECT BUDGET: \$63,400,098



PROJECT SCOPE OF WORK:

The Administration/Hanley Building is a 5-building facility established in 1965.

The scope of work includes preparing program statement/scope development package followed by the bridging documents for the Design-Build project.

Elements of the project will include construction of an approximately 67,000 square foot building to consolidate the departments of the Bureau of Materials, Bureau of Research, and District 6 Laboratories into one new Materials Laboratory and Training Center at the Hanley Building campus. The facility includes a high-bay central laboratory core with shared circulation, surrounded by administrative services, and also may include, but is not limited to, incidental uses such as hazardous chemical storage and laboratory storage. There will be exterior sidewalks and paving to include approximately 50 parking spaces.

CHANGE ORDER FOR BOARD AUTHORIZED PROCEED ORDER

Project Number	Project Description	Proceed Order Number	Total Amount of Proceed Order	Board Date Approved	Total Amount of Associated Change Order(s) & Date Executed	Value of Change Order Work Completed
040-010-115	Department of Veterans' Affairs - Illinois Veterans' Home at Quincy – Construct New Nursing Home and Domiciliary – Quincy, Adams County, IL	G-12	\$330,000.00	7/11/2023	G-12 \$325,168.04 1/22/2024	98.54%
120-135-069	Illinois Department of Corrections - Logan Correctional Center – Renovate Shower Rooms – Lincoln, Logan County, IL	G-07	\$1,999,260.00	4/11/2023	G-007.1 \$366,509.41 10/20/2023 G-007.2 \$182,674.06 1/11/2024 Total to Date: \$549,183.47	18.33% 9.14% Total to Date: 27.47%
814-010-083	Chicago State University - Jacoby Dickens Center – Repair HVAC and Pool – Chicago, Cook County, IL	G-10	\$11,000,000.00	4/11/2023	G-10.1 \$577,797.86 7/20/2023 G-10.3 \$2,225,073.54 8/3/2023 G-10.4 \$697,545.80 10/12/2023 G-10.5 \$31,114.16 1/22/2024 G-10.6 \$872,130.80 10/2/2023 G-10.7 \$1,781,077.65 11/3/2023 G-10.8 \$511,736.73 11/28/2023 G-10.9 \$137,345.40 9/19/2023 G-10.10 \$240,825.66	5.25% 20.23% 6.34% 0.28% 7.93% 16.19% 4.65% 1.25% 2.19%

					11/9/2023 G-10.11 \$119,543.06 11/21/2023 G-10.12 \$76,048.89 8/9/2023 G-10.13 \$112,067.06 8/15/2023 G-10.14 \$1,422,957.81 8/17/2023 G-10.15 \$699,062.17 11/28/2023 Total to Date: \$9,504,326.59	1.09% 0.69% 1.02% 12.94% 6.36% Total to Date: 86.41%
830-030-162	University of Illinois Chicago – Construct a Computer Design Research and Learning Center – Chicago, Cook County, IL	G-43	\$3,683,199.43	9/13/2022 G-43.1 \$96,999.75 12/19/2023 G-43.2 \$62,974.16 2/1/2023 G-43.3 \$80,383.33 12/13/2023 Total to Date: \$240,357.24	2.63% 1.71% 2.18% Total to Date: 6.53%	

EMERGENCY PROJECT PROCEED ORDER/CHANGE ORDER REPORT

Project Number	Project Description	Proceed Order or Change Order Number	Total Amount of this Proceed Order, RFP or Mod & Date Executed	Total Amount of Associated RFPs/Mods & Date Executed	Percentage of RFP/Mod Work Completed
120-050-062	Illinois Department of Corrections - East Moline Correctional Center – Repair/Replace Tunnels – East Moline, Rock Island County, IL	PO G-1	\$1,100,000.00 12/12/2023	N/A	20%
120-175-148	Illinois Department of Corrections – Menard Correctional Center – Emergency Boiler House Repairs and Upgrades – Menard, Randolph County, IL	CO H-4	\$1,500,000.00 12/11/2023	N/A	10%
630-552-002	Illinois Department of Transportation – Nashville Maintenance Storage Facility – Emergency Repair of Three Buildings – Nashville, Washington County, IL	CO G-3	\$179,468.38 12/26/2023	N/A	100%

SUBJECT: Best Interest of the State Selection / Informational Item

Project Number	Firm/Job Description	Estimated Total Project Cost
102-332-002	Improve DuPage River Spillway Department of Natural Resources I & M Canal - Channahon	\$5,772,150
	<i>SELECTED FIRM:</i> Farnsworth Group, Inc.	
120-270-046	Emergency Assessment & Repair/Replace Roofing & Ventilation Systems & Interior Department of Corrections Graham Correctional Center - Montgomery County	\$8,972
	<i>SELECTED FIRM:</i> Hurst-Rosche, Inc.	
810-028-027	Repair Roads and Concrete Illinois Community College Board College of DuPage - Glen Ellyn, DuPage County	\$574,360
	<i>SELECTED FIRM:</i> V3 Companies, Ltd.	
821-010-117	Upgrade Steam Heating System - Felmley Hall Illinois State University Illinois State University - Normal, McLean County	\$4,380,114
	<i>SELECTED FIRM:</i> IMEG Consultants Corp.	

SUBJECT: Best Interest of the State Selection / Informational Item

Project Number	Firm/Job Description	Estimated Total Project Cost	SUMMARY OF SELECTIONS LAST 5 YEARS
830-030-157	Exterior Repairs/Window Replacement - College of Med and Clinic Sciences University of Illinois University of Illinois - Chicago, Cook County		\$4,909,012

SELECTED FIRM:

McGuire Igleski & Associates, Inc.

CDB PROJECT NO: 102-332-002

PROJECT DESCRIPTION: Improve DuPage River Spillway

PROJECT LOCATION: Department of Natural Resources
I & M Canal - Channahon

PROJECT AMOUNT: \$5,772,150

PROJECT SCOPE OF WORK:

Channahon State Park, part of the I & M Canal State Trail and within the federal I & M Canal National Heritage Corridor, is a 20.5 acre property purchased prior to 1965 located near Channahon in Will County.

The scope of work provides for improving the north embankment including raising the elevation to match the south embankment and installing a fuse plug, reinforcing the embankment with a sheet pile wall, constructing a concrete retaining wall, constructing concrete stairs with handrails near both downstream embankments and providing rip rap.

ARCHITECT/ENGINEER: Farnsworth Group, Inc. (29142)
Champaign, IL 61821

CDB PROJECT NO: 120-270-046

PROJECT DESCRIPTION: Emergency Assessment & Repair/Replace Roofing & Ventilation Systems & Interior

PROJECT LOCATION: Department of Corrections
Graham Correctional Center - Montgomery County

PROJECT AMOUNT: \$8,972

PROJECT SCOPE OF WORK:

The Academic Building (C3104) is a 17,620 square foot, 1-story building established in 1981.

The scope of work provides for the replacement of the existing roofing systems and related accessories, including but not limited to, the damaged drywall ceilings in the Academic Building, CDB Building Number C3104, at Graham Correctional Center.

ARCHITECT/ENGINEER: Hurst-Rosche, Inc. (1698)
Hillsboro, IL 62049

CDB PROJECT NO: 810-028-027

PROJECT DESCRIPTION: Repair Roads and Concrete

PROJECT LOCATION: Illinois Community College Board
College of DuPage - Glen Ellyn, DuPage County

PROJECT AMOUNT: \$574,360

PROJECT SCOPE OF WORK:

The College of DuPage is an 8-building facility established in 1973.

The scope of work provides for asphalt crack repair, surface patching of deteriorating pavements, pavement sealing to prolong service life of older parking lots and repair pavement and drainage sink holes, campus-wide concrete repairs to replace broken or deteriorating concrete, sunken walkway panels, damaged concrete curbs and select concrete pavements at pedestrian intersections and bus routes.

ARCHITECT/ENGINEER: V3 Companies, Ltd. (29543)
Woodridge, IL 60517

CDB PROJECT NO: 821-010-117

PROJECT DESCRIPTION: Upgrade Steam Heating System - Felmley Hall

PROJECT LOCATION: Illinois State University
Illinois State University - Normal, McLean County

PROJECT AMOUNT: \$4,380,114

PROJECT SCOPE OF WORK:

Felmley Hall is a 53,096 square foot, five-story masonry building constructed in 1930.

The scope of work provides for upgrading the steam heating system, including converting the steam heating system to hot water heating, replacing associated equipment, controls, piping and duct work and electrical upgrades.

ARCHITECT/ENGINEER: IMEG Consultants Corp. (35187)
Peoria, IL 61604

CDB PROJECT NO: 830-030-157

PROJECT DESCRIPTION: Exterior Repairs/Window Replacement - College of Med and Clinic Sciences

PROJECT LOCATION: University of Illinois
University of Illinois - Chicago, Cook County

PROJECT AMOUNT: \$4,909,012

PROJECT SCOPE OF WORK:

The University of Illinois at Chicago is an 11,413,396 square foot, 106-building campus constructed in 1910.

The scope of work provides for upgrading the exterior on the College of Medicine and the Clinical Sciences Building, including replacing windows, repairing distressed and deteriorated masonry, tuckpointing, replacing steel and masonry lintels, limestone panels, trim and various masonry anchorage devices, rebuilding brick corners and replacing embedded steel anchors and pins.

ARCHITECT/ENGINEER: McGuire Igleski & Associates, Inc. (28352)
Evanston, IL 60201

SUBJECT: *Emergency Selection / Informational Item*

Project Number	Firm/Job Description	Estimated Total Project Cost
120-215-071	Emergency Assessment and Repair/Replace Roofing System Department of Corrections Sheridan Correctional Center - LaSalle County	\$100,000
	<i>SELECTED FIRM:</i> StudioK Architecture, LLC	
120-230-146	Provide Emergency Utilities for Temporary Kitchens Department of Corrections Stateville Correctional Center - Joliet, Will County	\$500,000
	<i>SELECTED FIRM:</i> Milhouse Engineering and Construction, Inc.	
630-314-008	Emergency Assessment and Repair of Fire Damage to the Maintenance Building Department of Transportation District 4: Peoria West Team Section Headquarters - Edwards, Peoria County	\$400,000
	<i>SELECTED FIRM:</i> Mode Architects, P.C.	

CDB PROJECT NO: 120-215-071

PROJECT DESCRIPTION: Emergency Assessment and Repair/Replace Roofing System

PROJECT LOCATION: Department of Corrections
Sheridan Correctional Center - LaSalle County

PROJECT AMOUNT: \$100,000

PROJECT SCOPE OF WORK:

The Resident Building C-2 (C0839) is a 9,600 square foot, 1-story building established in 1979.

The scope of work includes, but is not limited to, the inspection and repair or replacement of the existing roofing system and related accessories damaged from a fire on Resident Unit C-2, CDB Building Number C0839, at Sheridan Correctional Center.

ARCHITECT/ENGINEER: StudioK Architecture, LLC (35146)
Princeton, IL 61356

CDB PROJECT NO: 120-230-146

PROJECT DESCRIPTION: Provide Emergency Utilities for Temporary Kitchens

PROJECT LOCATION: Department of Corrections
Stateville Correctional Center - Joliet, Will County

PROJECT AMOUNT: \$500,000

PROJECT SCOPE OF WORK:

The Stateville Correctional Center is a 117-building facility established in 1914.

The scope of work provides for the design and construction of temporary utilities to support temporary kitchens at the Northern Reception and Classification Center and Stateville Correctional Center. The temporary kitchens consist of multiple semi-trailers for food preparation, dishwashing, food storage, etc. The A/E will need to determine appropriate utility tie-ins, design of all utility services, and construction estimates. The work includes electrical services, potable water supplies, sanitary sewer, LP gas lines, site grading, drainage, gravel, concrete aprons, etc. for the connection of multiple trailers at each facility. The scope does not include rental costs for the temporary kitchens or LP tanks, or the removal/disassembly of the site utilities in the future. Although the kitchens are considered temporary, the design and construction should be sufficient to accommodate 4 years of use to allow for permanent renovations to the existing kitchens. Coordination with the temporary kitchen supplier is required.

ARCHITECT/ENGINEER: Milhouse Engineering and Construction, Inc. (29102)
Chicago, IL 60604

CDB PROJECT NO:	630-314-008
PROJECT DESCRIPTION:	Emergency Assessment and Repair of Fire Damage to the Maintenance Building
PROJECT LOCATION:	Department of Transportation District 4: Peoria West Team Section Headquarters - Edwards, Peoria County
PROJECT AMOUNT:	\$400,000

PROJECT SCOPE OF WORK:

The Maintenance Building (D0437) is a 19,275 square foot, one-story building established in 1981.

The scope of work provides for repair and replacement of items damaged during a fire in maintenance bays 1-3 (1 common area), including wiring devices, light fixtures, water heaters, water piping, unit heaters, overhead doors, door motors and tracks, including all related conduit, wiring, water piping, gas piping, and other fire damaged items. The entire area is to be cleaned and finishes restored to their pre-fire condition. The work also provides for immediate repairs to the x-bridging in the steel bar joists to stabilize the roof. Roof replacement and repairs will be done under a separate contract.

ARCHITECT/ENGINEER: Mode Architects, P.C. (29890)
Chicago, IL 60654

SUBJECT: *Small Contract Selection / Informational Item*

Project Number	Firm/Job Description	Estimated Total Project Cost
810-016-005	Replace Elevators Illinois Community College Board Malcolm X College - Chicago	\$19,325,000

SELECTED FIRM:

Donnelly & Associates, Inc.

CDB PROJECT NO: 810-016-005

PROJECT DESCRIPTION: Replace Elevators

PROJECT LOCATION: Illinois Community College Board
Malcolm X College - Chicago

PROJECT AMOUNT: \$19,325,000

PROJECT SCOPE OF WORK:

The Malcolm X College (JC048) is a 578,743 square foot, 8-story building established in 2016.

The scope of work provides for repair or replacement of up to 11 elevators.

ARCHITECT/ENGINEER: Donnelly & Associates, Inc. (40343)
Glenview, IL 60025

FY24 CDB BOARD MEETING SCHEDULE

DATE	TIME	LOCATION
July 11, 2023	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
August 8, 2023	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
September 12, 2023	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
October 10, 2023	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
November 14, 2023	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
December 12, 2023	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
January 9, 2024	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
February 13, 2024	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
March 12, 2024	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
April 9, 2024	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
May 14, 2024	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference
June 11, 2024	11:00 a.m.	Chicago, Springfield, Collinsville, and Video Conference