

BIDDING AND CONTRACT DOCUMENTS

Document 00 9111 - Addendum #1

CHAMPAIGN COUNTY JAIL CONSOLIDATION 502 S. Lierman Ave. Urbana, IL 61802

RRCo Project Number: 202190

DATE 10/18/22

Reifsteck Reid & Company Architects 909 Arrow Road Champaign, Illinois 61821

### Subject: ADDENDUM NO. 1 TO THE CONTRACT DOCUMENTS FOR CHAMPAIGN COUNTY JAIL CONSOLIDATION

This Addendum forms a part of the contract and contract documents and modifies the original contract documents dated 27SEP22. Acknowledge receipt of this addendum in space provided on Bid Form.

### Clarifications

- Item 1 The contract time has not been established within the bid documents, but it will be included in the Agreement between the Owner and Contractor when it is written. The Notice of Award is assumed to be approved in early December. It has been assumed by the design team and the Owner that a construction period of approximately 18 months will be required to complete the project.
- **Item 2** Section 00 2113 Instructions to Bidders: Paragraph 5.01 refers to qualifications which apply to the Detention Equipment Contractor, not the General Contractor.
- Item 3 The liquidated damages that are described at item "(8) Remedies" of the "PLA-Related Contract Terms" are solely regarding the Equal Opportunity (EO) requirements of Article 14 of the Project Labor Agreement (PLA). As stated in that part of the document, "The words used herein and the requirements shall be interpreted in accordance with and have the meaning ascribed to them as set forth in Article 14 of the Project Labor Agreement." The liquidated damages apply if the contractor does not comply with the Article 14 EO requirements of the PLA after they've signed the contract with the County, during the entire construction period. The liquidated damages in the PLA are a separate issue from the forfeiture of security deposit referenced in section 1.06 of the Bid Form.
- Item 4 Contractors performing work inside the existing building will be required to pass a

CHAMPAIGN COUNTY JAIL	CONSOLIDATION	RRCo 202190
Urbana, IL 61802	00 9111-1	ADDENDUM 1

security check. These security checks will be performed by the Owner.

- **Item 5** All tools and materials that will be needed to be used in the secure parts of the building will need to be inventoried. Please only bring into the secure parts of the building what is absolutely necessary for the work at hand so there is less to inventory.
- **Item 6** In reference to work times, the inmates are required to have 8 hours of interrupted sleep per Jail Standards so depending on the specific location being renovated there may be some limitations to the work schedule. A work plan will need to be coordinated with the Jail staff when the construction schedule is being created.
- **Item 7** In reference to constraints while working inside the existing Jail, it depends on the specific work being performed and the location of such work. For example, for work in the main corridors and pods an escort will be assigned to the contractor.
- **Item 8** All shower units shall have sloped concrete floors sloping to the drain, with epoxy floor finish. Preformed shower pans are not specified nor required.

#### Amendments to the Drawings

Item 9	<u>ADD</u> the following sheets to the drawing set: Sheet G201 – ComCheck, Sheet G202 – ComCheck, Sheet G203 – ComCheck, and Sheet G204 – ComCheck.
Item 10	Sheet AD101: This drawing has been reissued in its entirety.
Item 11	Sheet AD201: This drawing has been reissued in its entirety.
Item 12	Sheet AD900: This drawing has been reissued in its entirety.
Item 13	Sheet A111: This drawing has been reissued in its entirety.
Item 14	Sheet A112: This drawing has been reissued in its entirety.
Item 15	Sheet A113: This drawing has been reissued in its entirety.
Item 16	Sheet A121: This drawing has been reissued in its entirety.
Item 17	Sheet A122: This drawing has been reissued in its entirety.
Item 18	Sheet A211: This drawing has been reissued in its entirety.
Item 19	Sheet A212: This drawing has been reissued in its entirety.
ltem 20	Sheet A213: This drawing has been reissued in its entirety.
Item 21	Sheet A301: This drawing has been reissued in its entirety.
Item 22	Sheet A302: This drawing has been reissued in its entirety.
Item 23	Sheet A401: This drawing has been reissued in its entirety.

#### CHAMPAIGN COUNTY JAIL CONSOLIDATION Urbana, IL 61802 00 9111-2

Item 24	Sheet A501: This drawing has been reissued in its entirety.
Item 25	Sheet A511: This drawing has been reissued in its entirety.
Item 26	Sheet A601: This drawing has been reissued in its entirety.
Item 27	Sheet A603: This drawing has been reissued in its entirety.
Item 28	Sheet A701: This drawing has been reissued in its entirety.
Item 29	Sheet A721: This drawing has been reissued in its entirety.
Item 30	Sheet A801: This drawing has been reissued in its entirety.
Item 31	Sheet A802: This drawing has been reissued in its entirety.
Item 32	Sheet A803: This drawing has been reissued in its entirety.
Item 33	Sheet A911: This drawing has been reissued in its entirety.
Item 34	Sheet A912: This drawing has been reissued in its entirety.
Item 35	Sheet A921: This drawing has been reissued in its entirety.
Item 36	Sheet A922: This drawing has been reissued in its entirety.
Item 37	Sheet QD111: This drawing has been reissued in its entirety.
Item 38	Sheet QD112: This drawing has been reissued in its entirety.
Item 39	Sheet QD113: This drawing has been reissued in its entirety.
Item 40	Sheet QD601: This drawing has been reissued in its entirety.
Item 41	Sheet QD602: This drawing has been reissued in its entirety.
Item 42	Sheet QD701: This drawing has been reissued in its entirety.
Item 43	Sheet QD801: This drawing has been reissued in its entirety.
Item 44	Sheet QD802: This drawing has been reissued in its entirety.
Item 45	Sheet QD803: This drawing has been reissued in its entirety.
Item 46	Sheet QD806: This drawing has been reissued in its entirety.
ltem 47	Sheet QD807: This drawing has been reissued in its entirety.
ltem 48	Sheet P301:
	A. REVISE P-1, P-2, and P-3 to 12-gauge stainless steel in lieu of

A. <u>**REVISE**</u> P-1, P-2, and P-3 to 12-gauge stainless steel in lieu of 14-gauge.

# CHAMPAIGN COUNTY JAIL CONSOLIDATION Urbana, IL 61802 00 9111-3

RRCo 202190 ADDENDUM 1

- B. CLARIFICATION P-1, P-2, AND P-3 shall be ligature resistant.
- Item 49 Sheet V111: <u>**REVISE**</u> duct drops for MAU-1. See attached sheet.
- Item 50 Sheet V112:
  - A. REVISE ductwork in 154 Storage and add insulation notes. See attached sheet.
  - B. **<u>REVISE</u>** duct drops for MAU-2. See attached sheet.

#### Amendments to the Specifications

- Item 51 Section 00 7300 Supplementary Conditions, Paragraph 1.04.S.1: <u>**REVISE**</u> to read:
  - The Contractor shall be responsible for obtaining and paying for the Building Permit. The Owner will obtain and pay for the Urbana Fire Department Fire Prevention Permit, the Urbana & Champaign Sanitary District's Interceptor Cost Recovery Fee and Connection Permit, and the Illinois Environmental Protection Agency (IEPA) SWPPP Land Disturbance application and the IEPA Sanitary Sewer Application fee. Any other permits necessary for construction of the project shall be paid for by the appropriate contractor.
- Item 52 Section 04 2000 Unit Masonry: <u>ADD</u> 2.02.A.5 to the list of approved manufacturers:
  - 5. Endicott Clay Products Co: www.endicott.com.
- Item 53 Section 12 5500, Paragraph 2.01.B: <u>ADD</u> "6-Man Pedestal Dayroom Table" to the description in addition to the 4-Man Pedestal Dayroom Table. Construction information listed under the heading remains the same.
- Item 54 Section 22 0719 Plumbing Piping Insulation, Paragraph 3.13-B.: <u>CLARIFICATION</u>: Piping, exposed is to include PVC jacket for all exposed piping in interior rooms, such as Storage / Janitor 149, Mechanical 155, Fiber 155A. The piping in mechanical chase behind cell blocks and located above cells do not require PVC jacket.
- Item 55 Section 22 4600 Security Plumbing Fixtures, Paragraph 2.3-A.2.:
  - A. **<u>REVISE</u>** Materials to 12-gauge in lieu of 14-gauge.
  - B. **<u>ADD</u>** option for clothes hooks on fixture.
  - C. **CLARIFY** all security fixtures shall be ligature resistance.
- Item 56 Section 23 0700 HVAC Insulation
  - A. Paragraph 2.1-I.: <u>ADD</u> to read as follows:
    - I. Equipment Geothermal System
      - 1. Insulate the following equipment with 1" thick layer of fire retardant elastomeric insulation having a flame-spread rating of less than 25 in accordance with the latest NFPA standards.

## CHAMPAIGN COUNTY JAIL CONSOLIDATION Urbana, IL 61802 00 9111-4

RRCo 202190 ADDENDUM 1

ITEMS Geothermal Water Pumps Geothermal Water Strainers Geothermal Air Separator Geothermal Expansion Tank

- 2. Insulation shall be applied with a full coating of adhesive, as recommended by the manufacturer.
- 3. The insulation on all pumps and strainers shall be easily removable for service.
- 4. Do not use elastomeric on surfaces that exceed 120EF.
- B. Paragraph 3.3-G.: <u>ADD</u> to read as follows:
  - G. Unfinished spaces include mechanical rooms and mechanical chases.
- Item 57 Section 23 7443 Packaged Outdoor Heating and Cooling Makeup Air Conditioners, Paragraph 2.2-A.: <u>REVISE</u> to read "Construction: Double Wall 1" Insulated."

This addendum consists of 5 pages and 45 attachments.

END 00 9111

CHAMPAIGN COUNTY JAIL CONSOLIDATION Urbana, IL 61802 00 9111-5 RRCo 202190 ADDENDUM 1

-0.	COMcheck Software Version 4.1.5.5
	COMcheck Software Version 4.1.5.5 Envelope Compliance Certificate
•	

Project Information	n
Energy Code:	
Project Title:	
Location:	
Climate Zone:	
Project Type:	
Vertical Glazing / Wall A	rea
Skylight / Roof Area	

2018 IECC Champaign County Jail Consolidation Urbana, Illinois 5a Addition 5% 1%

> Owner/Agent: Champaign County

Construction Site: 502 S. Lierman Ave. Urbana, IL 61802 Designer/Contra Reifsteck Rei 909 Arrow Ro

Designer/Contractor: Reifsteck Reid & Co. Architects 909 Arrow Road Champaign, IL

Building Area	Floor Area	
1-Gross (Penitentiary) : Nonresidential	28731	

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sub>(a)</sub>
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Gross]	28731		31.5	0.031	0.032
Skylight 1: Metal Frame with Thermal Break:Plastic, With Curb, Perf. Specs.: Product ID Skylight, Allowance: Above daylight zone with daylight responsive controls, SHGC 0.60, [Bldg. Use 1 - Gross] (b)	333			0.710	0.750
Floor 1: Slab-On-Grade:Unheated, Vertical 2 ft., [Bldg. Use 1 - Gross] (c)	836		10.0	0.540	0.540
<u>NORTH</u> North Elev 3": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	1972		14.1	0.061	0.090
North Elev 2": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	906	0.0	9.4	0.086	0.090
Window, North: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Windows, SHGC 0.38, [Bldg. Use 1 - Gross] (b)	103		***	0.380	0.380
Window, North - Detention: Metal Frame with Thermal Break Fixed, Perf. Specs.: Product ID Detention, SHGC 0.30, [Bldg. Use 1 - Gross] (b)	60			0.400	0.380
Door, North: Insulated Metal, Swinging, [Bldg. Use 1 - Gross]	91			0.700	0.370
EAST East Elev 3": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	2654		14.1	0.061	0.090
East Elev 2": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	826		9.4	0.086	0.090
Window, East: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Windows, SHGC 0.38, [Bldg. Use 1 - Gross] (b)	147			0.380	0.380
Window, East - Detention: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Detention, SHGC 0.30, [Bldg. Use 1 - Gross] (b)	13	212		0.400	0.380

 Project Title:
 Champaign County Jail Consolidation
 Report date: 10/03/2

 Data filename:
 P:\2021\202190 Champaign County Jail Consolidation\04\_Codes, Analysis & QC\202190
 Page 1 of 11

 Champaign County Jail Consolidation.cck
 Codes, Analysis & QC\202190
 Page 1 of 11

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Pro U-
Door, East: Insulated Metal, Swinging, [Bldg. Use 1 - Gross]	61			į
SOUTH South Elev 3": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	2214		14.1	
South Elev 2": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	762		9.4	
Window, South: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Windows, SHGC 0.38, [Bldg. Use 1 - Gross] (b)	80			
Window, South - Detention: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Detention, SHGC 0.30, [Bldg. Use 1 - Gross] (b)	20			
Door, South: Insulated Metal, Swinging, [Bldg. Use 1 - Gross]	90			
WEST West Elev 3": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	2110		14.1	
West Elev 2": Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: None, [Bldg. Use 1 - Gross]	1064		9.4	
Window, West: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Windows, SHGC 0.38, [Bldg. Use 1 - Gross] (b)	160			
Window, West - Detention: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Detention, SHGC 0.30, [Bldg. Use 1 - Gross] (b)	93			

(b) Degets that no product performance must be certified in accordance with NFRC and requires supporting documentation (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
 Envelope PASSES: Design 8% better than code

Envelope Complian	ce Statement
specifications, and othe designed to meet the 2	The proposed envelope design represented in this document is consistent with the calculations submitted with this permit application. The proposed envelope system 018 IECC requirements in COM <i>check</i> Version 4.1.5.5 and to comply with any applical the Inspection Checklist.

Signature

Chris Name - Title

Project Title:	Champaign County Jail Consolidation	į
	P:\2021\202190 Champaign County Jail Consolidation\04_Codes, Analysis & QC\202190 Champaign County Jail Consolidation.cck	

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.4. 3	Stair and elevator shaft vents have motorized dampers that automatically close. Refernece section C403.7.7 for operational details.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
[ME58] <sup>3</sup>	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.		Requirement will be met. Location on plans/spec: Spec section 23 7433

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assum
C405.6 [EL26] <sup>2</sup>	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C405.7 [EL27] <sup>2</sup>	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C405.8.2, C405.8.2. 1 [EL28] <sup>2</sup>	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not app
C405.9 [EL29] <sup>2</sup>	Total voltage drop across the combination of feeders and branch circuits <= 5%.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

 I
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)

 Project Title:
 Champaign County Jail Consolidation
 Report date: 10/03/22

 Data filename:
 P:\2021\202190 Champaign County Jail Consolidation\04\_Codes, Analysis & QC\202190
 Page 6 of 11

 Champaign County Jail Consolidation.cck
 Codes, Analysis & QC\202190
 Page 6 of 11

 I High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3

 Project Title:
 Champaign County Jail Consolidation
 1

 Data filename:
 P:\2021\202190 Champaign County Jail Consolidation.cck
 1

Cont. Proposed Budget U-	ware Version 4.1.5.5	Section # Footing / Foundation Inspection Complies? Comments/Assumptions	Section # Framing / Rough-In Inspection Complies? Comments/Assumptions	REIFSTECK REID
R-Value       U-Factor       Factor(a)          0.700       0.370         14.1       0.061       0.090		& Req.ID     C303.2     Slab edge insulation installed per manufacturer's instructions.     Complies     Requirement will be met.       Not Observable     Not Applicable	& Req.ID       C303.13         [FR12] <sup>2</sup> Fenestration products rated in accordance with NFRC.         Does Not         Dot Observable         Not Observable	ARCHITECTURE. CONSTRUCTION MANAGEMENT. INTERIORS. 217.351.4100
9.4     0.086     0.090     Text in the "Comments/Assumptions" colurequirement, the user certifies that a cod is being claimed. Where compliance is ite        0.380     0.380	umn is provided by the user in the COMcheck Requirements screen. For each le requirement will be met and how that is documented, or that an exception mized in a separate table, a reference to that table is provided.	C303.2.1 Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	C303.1.3 Fenestration products are certified as Complies Requirement will be met. [FR13] <sup>1</sup> to performance labels or certificates Does Not Does No	Lincolnshire Center, Suite #4 909 Arrow Road Champaign, IL 61821
0.400 0.380 0.700 0.370 Section # Plan Review & Req.ID C103.2 Plans and/or specifications provide information with which compliance	Does Not	C105 [FO3] <sup>2</sup> Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. C000 COMCHeck rep	C402.4.3 [FR10] <sup>1</sup> Vertical fenestration SHGC value. Complies See the Envelope Assemblies table for values. Not Does Not Not Observable Not Applicable	www.rr-arch.com
14.1     0.061     0.090     can be determined for the building envelope and document where exceptions to the standard are claimed.       9.4     0.086     0.090     C402.4.1     The vertical fenestration area <= 3		C402.2.4 [FO7] <sup>2</sup> Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.       Complies Does Not Not Observable       Exception: Requirement does not apply.         See the Envelope Assemblies table for values.	C402.4.3 Skylight SHGC value. Complies See the Envelope Assemblies table for values. Does Not Does Not Not Observable Not Applicable	
0.380         0.380         [PR10] <sup>1</sup> percent of the gross above-grade warea.            0.400         0.380         C402.4.1.         A maximum of 5 percent of roof area	vall Does Not Dot Observable Not Applicable	Additional Comments/Assumptions:	C402.4.3,       Installed vertical fenestration U-factor       Complies       See the Envelope Assemblies table for values.         C402.4.3.       and SHGC consistent with label       Does Not         4       specifications and as reported in plans       Not Observable         [FR8] <sup>1</sup> and COMcheck reports.       Not Applicable	
2       is permitted to be skylight responsive contru- are installed in daylight zones unde skylights.	Does Not DNot Observable Not Applicable		C402.4.3.       Installed skylight U-factor and SHGC       Complies       See the Envelope Assemblies table for values.         4       Consistent with label specifications       Does Not         [FR9] <sup>1</sup> and as reported in plans and       Not Observable	
C402.4.2       In enclosed spaces > 2,500 ft2         [PR14] <sup>1</sup> directly under a roof with ceiling         heights > 15 ft. and used as an offic       lobby, atrium, concourse, corridor, storage, gymnasium/exercise center         non-refrigerated warehouse, retail stored distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= haif the floor area; (b) the skylight area to daylight zone is >= 3 percer with a skylight VT >= 0.40; or a minimum skylight effective apertur	e, ent		C402.5.7 [FR17] <sup>3</sup> Vestibules are installed on all building entrances. Doors have self-closing devices.       Complies Does Not Not Observable Not Applicable       Requirement will be met.         Additional Comments/Assumptions:	
C402.4.2. Skylights in office, storage, automotive service, manufacturing [PR15] <sup>1</sup> non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude	□Not Observable □Not Applicable			
C406       Plans, specifications, and/or         [PR9] <sup>1</sup> calculations provide all information with which compliance can be determined for the additional energy efficiency package options.         Additional Comments/Assumptions:	Complies Requirement will be met.			
		1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)	1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)	These drawings and specifications are the property and copyright of Reifsteck Reid & Company Architects and shall not be used on any other work except by written agreement with the Architect.
Report date: 10/03/22 Project Title: Champaign County Jail Consolid	punty Jail Consolidation\04_Codes, Analysis & QC\202190 Page 3 of 11	Project Title:       Champaign County Jail Consolidation       Report date: 10/03/22         Data filename:       P:\2021\202190 Champaign County Jail Consolidation\04_Codes, Analysis & QC\202190       Page 4 of 11         Champaign County Jail Consolidation.cck       Codes, Analysis & QC\202190       Page 4 of 11	Project Title: Champaign County Jail Consolidation Data filename: P:\2021\202190 Champaign County Jail Consolidation\04_Codes, Analysis & QC\202190 Page 5 of 11 Champaign County Jail Consolidation.cck	Only written dimensions shall be used. Do not scale drawings. Dimensions shall be verified on the job site. Any discrepancy shall be brought to the notice of the Architect prior to the commencement of any work.         REVISIONS         No.       Date         Description         1       10/1/2022
mments/Assumptions # Insulation Inspection	Complies? Comments/Assumptions	Section # Final Inspection Complies? Comments/Assumptions	COMcheck Software Version 4.1.5.5	
& Req.ID       net.     C303.1       [IN3] <sup>1</sup> Roof insulation installed per manufacturer's instructions. Blown poured loose-fill insulation is install only where the roof slope is <=3 in	or Does Not Diservable	& Req.ID     C402.5     Building envelope contains a continuous air barrier that has been tested and deemed to limit air leakage <= 0.40 cfm/ft2.     Complies     Requirement will be met.	Interior Lighting Compliance Certificate	
net. (IN20] <sup>1</sup> 12. C402.2.1 Insulation installed on a suspended ciling having ceiling tiles is not be specified for roor/ceiling assemblie: Continuous insulation board installe	S. Dist Observable	C402.5.6       Weatherseals installed on all loading       Complies       Exception: Requirement does not apply.         [F137] <sup>1</sup> dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.       Does Not	Project Information         Energy Code:       2018 IECC         Project Title:       Champaign County Jail Consolidation	
in 2 or more layers with edge joints offset between layers. C303.1 Building envelope insulation is labe [IN10] <sup>2</sup> with R-value or insulation certificat providing R-value and other relevan	s □Not Applicable eled □Complies Requirement will be met.	C408.1.1       Building operations and maintenance [FI57] <sup>1</sup> Complies       Requirement will be met.         [FI57] <sup>1</sup> documents will cover owner. Documents will cover       Does Not         [Not Observable       Not Observable	Project Type: Addition Construction Site: Owner/Agent: Designer/Contractor:	
nent does not apply. C303.2 [IN7] <sup>1</sup> Above-grade wall insulation installe per manufacturer's instructions.		specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	502 S. Lierman Ave.Champaign CountyReifsteck Reid & Co. ArchitectsUrbana, IL 61802909 Arrow RoadChampaign, ILChampaign, IL	
met.       C303.2.1       Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation.	Does Not	Additional Comments/Assumptions:	Allowed Interior Lighting Power       A     B     C     D       Area Category     Floor Area (ft2)     Allowed Watts / ft2     Allowed Watts (B X C)       1-Gross (Penitentiary)     28731     0.75     21548	
C402.2.1. Skylight curbs are insulated to the level of roofs with insulation above deck or R-5. C105 Installed above-grade wall insulation	Complies       Requirement will be met.         Does Not       Image: Complement will be met.         Not Observable       Image: Complement will be met.         Image: Complex compl		Total Allowed Watts = 21548  Proposed Interior Lighting Power  A  Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast  Fixture Fixtures Watt.  Dot of the second	
[IN6] <sup>1</sup> type and R-value consistent with insulation specifications reported ir plans and COMcheck reports.         C402.2.3       Installed floor insulation type and R value consistent with insulation specifications reported in plans and specifications reported	Not Observable Not Applicable See the Envelope Assemblies table for values. Does Not		1-Gross (Penitentiary)           L1: Other:         1         15         62         930           L2: Other:         1         60         74         4440           L3: Other:         1         23         28         644           L4: Other:         1         10         28         280	
C402.2.6 [IN18] <sup>3</sup> C402.2.6 [IN18] <sup>3</sup> C402.2.6 C402.2.6 C402.2.6 C0Mcheck reports. C402.2.6 C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.6 C0Mcheck reports. C402.2.7 C	Not Observable Not Applicable Complies Does Not Not Observable		L4: Other:       1       3       74       222         L5: Other:       1       23       45       10035         L8: Other:       1       22       39       858         L9: Other:       1       45       33       1485         L10: Other:       1       112       23       2576	
C105       insulated with a minimum of R-3.5.         C105       Installed roof insulation type and Regime (IN2) <sup>1</sup> Value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to	- Complies See the Envelope Assemblies table for values.		Total Proposed Watts = 21470 Interior Lighting PASSES: Design 0.4% better than code Interior Lighting Compliance Statement	
C402.5.1.       All sources of air leakage in the building thermal envelope are seal         [IN1] <sup>1</sup> caulked, gasketed, weather strippe or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.         Additional Comments/Assumptions:	Complies Requirement will be met. ed, Does Not		Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.         Kyle Wikoff - Electrical Designer       Kyle Wikoff Detaily signed by Kyle Wikoff         Name - Title       Signature	
Report date: 10/03/22 Project Title: Champaign County Jail Consolid	ounty Jail Consolidation\04_Codes, Analysis & QC\202190 Page 8 of 11	1       High Impact (Tier 1)       2       Medium Impact (Tier 2)       3       Low Impact (Tier 3)         Project Title:       Champaign County Jail Consolidation       Report date: 10/03/22         Data filename:       P:\2021\202190 Champaign County Jail Consolidation\04_Codes, Analysis & QC\202190       Page       10 of 11         Champaign County Jail Consolidation.cck       Codes, Analysis & QC\202190       Page       10 of 11	Project Title: Champaign County Jail Consolidation Report date: 09/30/22 Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 1 of 8 Champaign County Jail Consolidation Lights.cck	
				ITB#2022-009 Satellite Jail
	1)     2     Medium Impact (Tier 2)     3     Low Impact (Tier 3)	NO CHECKLIST ITEMS THIS PAGE		Consolidation Project
Project Title: Champaign County Jail Consolie	dation Report date: 10/03/22 punty Jail Consolidation\04_Codes, Analysis & QC\202190 Page 9 of 11	Project Title:       Champaign County Jail Consolidation       Report date: 10/03/22         Data filename:       P:\2021\202190 Champaign County Jail Consolidation\04_Codes, Analysis & QC\202190       Page 11 of 11         Champaign County Jail Consolidation.cck       Codes, Analysis & QC\202190       Page 11 of 11		COUNTY SATELLITE JAIL - JAIL
				CONSOLIDATION
				502 S Lierman Ave Urbana, IL 61802 ISSUED FOR BIDDING
				COMCHECK 2
				DATE 27SEP22 PROJECT 202190

Project Information		Require Text in t	he "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For
inergy Code: Project Title:	2018 IECC Champaign County Jail Consolidation	requirer	nent, the user certifies that a code requirement will be met and how that is documented, or that an exce claimed. Where compliance is itemized in a separate table, a reference to that table is provided.
Project Type: Exterior Lighting Zone	Addition 2 (Light industrial area with limited nighttime use (LZ2))	Section # & Reg.II	Plan Review Complies? Comments/Assumptions
Construction Site:	Owner/Agent: Designer/Contractor:	C103.2 [PR4] <sup>1</sup>	Plans, specifications, and/or Complies Requirement will be met.
502 S. Lierman Ave. Urbana, IL 61802	Champaign County Reifsteck Reid & Co. Architects 909 Arrow Road Champaign, IL		with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to
Allowed Exterior Lighting Po			the standard are claimed. Information provided should include interior lighting power calculations, wattage of
A Area/Surface Cate	B C D E	itts	bulbs and ballasts, transformers and control devices.
Parking Lot (Parking area)	Watts / Unit         Wattage         (B X C)           3700 ft2         0.04         Yes         148	[PR8] <sup>1</sup>	Plans, specifications, and/or Complies Requirement will be met.
Guarded facility, entrance/inspection			and electrical systems and equipment Indicate In
/-> 14/-44	Total Allowed Watts = 1148 Total Allowed Supplemental Watts (b) = 400		the standard are claimed. Information provided should include exterior lighting power calculations, wattage of
(b) A supplemental allowance equa	wed between tradable areas/surfaces. al to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.	C406	bulbs and ballasts, transformers and control devices.  Plans, specifications, and/or  Complies
Proposed Exterior Lighting F	Power A B C D E on / Lamp / Wattage Per Lamp / Ballast Lamps/ # of Fixture (C X	SOREST.	calculations provide all information with which compliance can be determined for the additional energy
Parking Lot ( Parking area 3700 ft	Fixture Fixtures Watt.	Norman Maria	efficiency package options.  INot Applicable al Comments/Assumptions:
L12: Other:		204	
L11: Other:	1 8 39	<u>312</u> 204	
Exterior Lighting PASSES: [	Design 63% better than code		
	osed exterior lighting design represented in this document is consistent with the building		
	ions submitted with this permit application. The proposed exterior lighting systems have be requirements in COM <i>check</i> Version 4.1.5.5 and to comply with any applicable mandatory tion Checklist.	een	
Kyle Wikoff - Electrical D	Designer Kyle Wikoff Digitally signed by Kyle Wikoff Signature 9/30/2022		
			1     High Impact (Tier 1)     2     Medium Impact (Tier 2)     3     Low Impact (Tier 3)
	ty Jail Consolidation Report date: 09, 2432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 2	8 A S	le: Champaign County Jail Consolidation Report date: 09/30 ame: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 3 of
	ck Software Version 4.1.5.5	Quantity	System Type & Description Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes
	ck Software Version 4.1.5.5 Inical Compliance Certificate	Quantity	
Mecha		Quantity	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump
			Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h,
Project Information Energy Code: Project Title: Location: Climate Zone:	2018 IECC Champaign County Jail Consolidation Urbana, Illinois 5a		Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes
Project Information Energy Code: Project Title: Location: Dimate Zone:	2018 IECC Champaign County Jail Consolidation Urbana, Illinois	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade
Project Information Energy Code: Project Title: Location: Climate Zone: Project Type: Construction Site: 502 S. Lierman Ave.	2018 IECC Champaign County Jail Consolidation Urbana, Illinois 5a Addition Owner/Agent: Champaign County		Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans:
Mecha  Project Information  Energy Code: Project Title: Location: Dimate Zone: Project Type:  Construction Site: 502 S. Lierman Ave.	2018 IECC Champaign County Jail Consolidation Urbana, Illinois 5a Addition	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h,
Mecha Project Information Project Information Project Title: .ocation: Dimate Zone: Project Type: Construction Site: 502 S. Lierman Ave. Urbana, IL 61802	2018 IECC Champaign County Jail Consolidation Urbana, Illinois 5a Addition Owner/Agent: Champaign County Designer/Contractor: Richard Van Note GHR Engineer 1615 S Neil St	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency: 14.10 EER Fan System: TE 0.038   CELLS Compliance (Motor nameplate HP method) : Passes
Mecha Project Information Energy Code: Project Title: Docation: Dimate Zone: Project Type: Construction Site: 502 S. Lierman Ave. Urbana, IL 61802	Anical Compliance Certificate 2018 IECC Champaign County Jail Consolidation Urbana, Illinois 5a Addition Moner/Agent: Champaign County Designer/Contractor: Richard Van Note GHR Engineer 1615 S Neil St Champaign, IL 61820	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP
Mecha      Arrow Steel      Arroy Code:      Project Information      Arroy Code:      Project Title:     ocation:      Dimate Zone:      Project Type:      Construction Site:     502 S. Lierman Ave.     Urbana, IL 61802   Mechanical Systems List      Cuantity System Type & Desc:     4 TE 026 (Single Zone):     Ground Source Heat Pun	ConsolidationChampaign County Jail ConsolidationUrbana, IllinoisSaAdditionMener/Agent:Champaign CountyChampaign CountyPription	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 13.00 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h
Archanical Systems List Construction Site: 502 S. Lierman Ave. Urbana, IL 61802 Urbana, IL 61802 Archanical Systems List Ground Source Heat Pun Heating Mode: Capacity	Pp         Pp         P2 KBfWf,         A0 COP, Required Efficiency = 3.20 COP	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency : 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 3 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 13.40 EER, Required Efficiency : 14.10 EER Fan System: TE 0038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 14.40 EER, Required Efficiency : 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 67 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 13.50 EER, Required Efficiency: 10.00 EER + 12.6 IEER
Arechanical Systems List Dividential Systems List Dividential Systems List Dividential Systems List Dividential Systems List Dividential System Subscription Arechanical Systems List Dividential System Subscription Colling Mode: Capacity = Proposed Efficiency = Proposed Efficiency = Proposed Efficiency =	Pp         Pp         P2 KBfWf,         A0 COP, Required Efficiency = 3.20 COP	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency: 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency: 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h, Air-Cooled Condenser, Air Economizer
A TE 026 (Single Zone): 4 TE 026 (Single Zone): Ground Source Heat Pun Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TE 026 [CI	PP         P2         P2         P2         P2         P2         P2         P2         P3         P4         P3         P4         P3         P4         P3         P4         P3         P4         P3         P4         P4         P4         P5         P4         P5	9	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 13.20 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TE 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 80.00% ELR Required Efficiency: 80.00 % EL or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 67 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 13.50 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes
A TE 026 (Single Zone): Ground Source Heat Pure Ground Source Heat Pure A TE 026 (Single Zone): Ground Source Heat Pure Heating Mode: Capacity = Proposed Efficiency = Fan System: TE 026 [Cl Fans: 026 Supply Supply, Co 17 TS 012 (Single Zone): Ground Source Heat Pure	P         2 v RBICP         Champaign County Jail Consolidation         Urbana, Illinois         3a         Addition         Momer/Agent:         Champaign County         Champaign County         Momer/Agent:         Champaign County         Champaign County         Momer/Agent:         Champaign County         Champaign County         Champaign County         Statistic         Barty Constractor:         Richard Van Note         GHR Engineer         1615 S Neil St         Champaign, IL 61820             P           * Statuth,         1/2 ocoP, Required Efficiency = 3.20 COP         2 w RButh,         1/3 02 EF, Required Efficiency : 14.10 EFE	9 2 2	Fan System: TS 018   CELLS - Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 5.20 EEP, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: RTU SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: RTU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 195 kBtu/h Proposed
A TE 026 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Cooling Mode: Capa	Participation       Participation         Participation       Partin         Parin <td< td=""><td>9 2 2</td><td>Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency : 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 kBtu/h, Proposed Efficiency = 3.20 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 KBtu/h, Proposed Efficiency = 3.20 KBtu/h, Proposed Efficiency = 3.20 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 43.00 CCP, ET, 1.00 EER + 12.6 IEER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TU SUPPLY Supply, Constant Volume, 2000 CFM, 1.00 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Heating i each - Central Furnace, Gas, Capacity = 195 kBtu/h</td></td<>	9 2 2	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency : 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 kBtu/h, Proposed Efficiency = 3.20 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 3.20 KBtu/h, Proposed Efficiency = 3.20 KBtu/h, Proposed Efficiency = 3.20 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 39 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 43.00 CCP, ET, 1.00 EER + 12.6 IEER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TU SUPPLY Supply, Constant Volume, 2000 CFM, 1.00 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Heating i each - Central Furnace, Gas, Capacity = 195 kBtu/h
Arroy Code: Project Information Energy Code: Project Title: coation: Construction Site: 502 S. Lierman Ave. Urbana, IL 61802 Arroy System Type & Desci Construction Site: 502 S. Lierman Ave. Urbana, IL 61802 Arroy System Type & Desci Ground Source Heat Pum Heating Mode: Capacity = Proposed Efficiency = Fan System: TE 026 [Cl Fans: 026 Supply Supply, Co 17 TS 012 (Single Zone): Ground Source Heat Pum Heating Mode: Capacity = Proposed Efficiency = Fan System: TE 026 [Cl Fans: 026 Supply Supply, Co 17 TS 012 (Single Zone): Ground Source Heat Pum Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Proposed Efficiency = Cooling Mode: Capacity = Cooling Mode: Capacity = Cooling Mode: Capacity = Cooling Mode: Capacity = Cooling Mode: Capaci	P         22 KBtu/h,         23 KBtu/h,         24 KBtu/h,         25 KBtu/h,         26 KBtu/h,         27 Compliance (Motor nameplate HP method) : Passes	9 2 2	Fan System: TS 018   CELLS - Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency : 14.10 EER Fan System: TS 006   CELLS - Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 30 kBtu/h, Proposed Efficiency = 13.0 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 30 kBtu/h, Proposed Efficiency = 13.0 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 30 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 11.00 EER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 11.00 EER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: RTU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 195 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 10.00 EER + 12.2 IEER
A TE 026 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Co	Addition Power/Agent: Designer/Contractor: Champaign County Jail Consolidation Urbana, Illinois Sa Addition Dwner/Agent: Designer/Contractor: Champaign County Designer/Contractor: Richard Van Note GHR Engineer 1615 S Neil St Champaign, IL 61820 ription P 22 kBturh, 4.20 COP, Required Efficiency = 3.20 COP 23 kBturh, 1.30 EER, Required Efficiency = 3.20 COP = 11 kBturh, 3.60 COP, Required Efficiency = 3.20 COP	9 2 2	Fan System: TS 018   CELLS - Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.20 EER, Required Efficiency : 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 3 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 3 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 3 kBtu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 30 KBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 38 kBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 10.00% EL, Required Efficiency: 11.00 EER + 12.61 EER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: RTU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 15 kBtu/h Proposed Efficiency = 3.00% EER, Required Efficiency: 1.00 EER + 1.26 IEER Fan System: RTUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: RTU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Centr
A TE 026 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Ef	ADDEDEDED SET OF THE OPEN OF T	9 2 2	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h. Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 KBu/h. Proposed Efficiency = 15.20 EER, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 3 KBu/h. Proposed Efficiency = 4.30 COP, Required Efficiency: 14.10 EER Fans System: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 KBu/h. Proposed Efficiency = 4.30 COP, Required Efficiency: 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 KBu/h Proposed Efficiency = 4.30 COM; Et, Required Efficiency: 10.00 % Et or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 67 KBu/h. Arcooled Condenser, Air Economizer Proposed Efficiency = 13.50 EER, Required Efficiency: 10.00 % Et or 80% AFUE Cooling: 1 each - Central Furnace, Gas, Capacity = 75 KBu/h Proposed Efficiency = 13.50 EER, Required Efficiency: 10.00 % Et or 80% AFUE Cooling: 1 each - Central Furnace, Gas, Capacity = 15 KBu/h Proposed Efficiency = 20.00% Et, Required Efficiency: 10.00 KER + 12.6 IEER Fans: RTU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 15 KBu/h Proposed Efficiency = 15.50 EER, Required Efficiency: 10.00 % Et or 80% AFUE Cooling: 1 each - Central Furnace, Gas, Capacity
Archanical Systems List Construction Site: 502 S. Lierman Ave. Urbana, IL 61802 Archanical Systems List Construction Site: 502 S. Lierman Ave. Urbana, IL 61802 Archanical Systems List Count System Type & Desc A TE 026 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TE 026   Cl Fans: 026 Supply Supply, Co 17 TS 012 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012   Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012   Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012   Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012   Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012   Cl Fans: TE 012 SUPPLY Supp	2018 IECC Champaign County Jail Consolidation Urbana, Illinois Sa Addition         Morer/Agent: Champaign County       Designer/Contractor: Richard Van Note GHR Engineer Champaign, County         Power/Agent: Champaign County       Designer/Contractor: Richard Van Note GHR Engineer Bitt S Neil St Champaign, IL 61820         rption       Pitt State Champaign County         Pitt State 22 KBtu/h, 4.20 COP, Required Efficiency = 3.20 COP = 26 KBtu/h, 7.30 EER, Required Efficiency : 14.10 EER ELLS - Compliance (Motor nameplate HP method) : Passes         Instant Volume, 950 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade         Pitt HBtu/h, 3.00 COP, Required Efficiency : 14.10 EER ELLS - Compliance (Motor nameplate HP method) : Passes         Instant Volume, 950 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade         Pitt Statu/h, 3.00 COP, Required Efficiency : 14.10 EER ELLS - Compliance (Motor nameplate HP method) : Passes         V, constant Volume, 350 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade         V, constant Volume, 350 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade         V, constant Volume, 350 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade	9 2 2	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 KBu/h, Proposed Efficiency = 15.00 EFR, Required Efficiency: 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 KBu/h, Proposed Efficiency = 13.00 EER, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 KBu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 32 KBu/h, Proposed Efficiency = 4.30 CCP, Required Efficiency: 14.10 EER Fan System: TED 038   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furmace, Gas, Capacity = 73 KBu/h Proposed Efficiency = 13.50 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fans Stume: TUS   CELLS Compliance (Motor nameplate HP method) : Passes Fans: RTU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furmace, Gas, Capacity = 57 KBu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 13.50 EER, Required Efficiency: 10.00 SE t or 80% AFUE Cooling: 1 each - Central Furmace, Gas, Capacity = 15 KBu/h Proposed Efficiency = 80.00% EI, Required Efficiency: 80.00 % EI or 80% AFUE Cooling: 1 each - Central Furmace, Gas, Capacity = 15 KBu/h Proposed Efficiency = 13.50 EER, Required Efficiency: 80.00 % EI or 80% AFUE Cooling: 1 each - Central Furmace, Gas, Capacity = 15 KBu/h Proposed Effi
A TE 026 (Single Zone): A TE 026 (Single Zone): B Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Ean System: TS 012   Ci Fans: TE 012 SUPPLY Supp A TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = C	A comparison of the provided and the pro	9 2 2	Fan System: TS 018   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 kBtu/h, Proposed Efficiency = 15.00 EFR, Required Efficiency : 14.10 EER Fan System: TS 006   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 3 XBtu/h, Proposed Efficiency = 15.40 EER, Required Efficiency : 14.10 EER Fan System: TED 039   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 3 KBtu/h, Proposed Efficiency = 16.40 EER, Required Efficiency : 14.10 EER Fan System: TED 039   CELLS Compliance (Motor nameplate HP method) : Passes Fans: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 73 kBtu/h Proposed Efficiency = 15.00 EER, Required Efficiency: 10.00 % EL or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 67 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 10.00 EER, Required Efficiency: 10.00 EER + 16.2 LEER Fans: RTU SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 158 kBtu/h Proposed Efficiency = 10.00 EER, Required Efficiency : 10.00 % ET or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 158 kBtu/h Proposed Efficiency = 10.00 EER, Required Efficiency : 10.00 % ET or 80% AFUE
A TE 026 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = To System: TS 012 [Cli Fans: Te 012 SUPPLY Supp Source Supply Supply Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TE 026 [Cli Fans: TE 012 SUPPLY Supply Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cli Fans: TE 012 SUPPLY Suppl Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cli Fans: TE 012 SUPPLY Suppl Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cli Fans: TE 012 SUPPLY Suppl Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cli Fans: TE 012 SUPPLY Suppl Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Coolin	2018 IECC         Champaign County Jail Consolidation         Urbana, Illinois         Sa         Addition         Owner/Agent:         Champaign County         Champaign County         Champaign County         Champaign County         Designer/Contractor:         Richard Van Note         GHR Engineer         1615 S Neil St         Champaign County         Vietnon         Vietno	9 2 2 1	Fan System: TS 018   CELLS - Compliance (Motor nameplate HP method) : Passes Fans: TS 018 SUPPLY Supply. Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade S 006 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 3.30 COP. Fans: TS 006 SUPPLY Supply. Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TS 006 SUPPLY Supply. Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 0 KBu/h, Proposed Efficiency = 1.30 EFR, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 0 KBu/h, Proposed Efficiency = 1.30 EFR, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 0 KBu/h, Proposed Efficiency = 4.30 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 0 KBu/h, Proposed Efficiency = 1.40 EFR, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 0 KBu/h, Proposed Efficiency = 1.40 EFR, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 0 KBu/h, Proposed Efficiency = 1.40 EFR, Required Efficiency = 0.20 COP Cooling Mode: Capacity = 0 KBu/h, Proposed Efficiency = 0.40 KER, Required Efficiency = 0.40 KER Pars: TE 038 SUPPLY Supply. Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: teach - Central Fumace. Gas, Capacity = 73 KBu/h Proposed Efficiency = 1.30 EFR, Required Efficiency: 1.10 EER + 1.24 EER Fans: RTU SUPPLY Supply. Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: teach - Central Fumace, Gas, Capacity = 73 KBu/h Proposed Efficiency = 1.30 EFR, Required Efficiency: 1.00 EER + 1.24 EER Fans: RTU SUPPLY Supply. Constant Volume, 3000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: teach - Central Fumace, Gas, Capacity = 155 KBu/h Proposed Efficiency = 1.30 EFR, Required Efficiency: 1.00 EER + 1.22 EEER Fans: MAU SUPPLY Supply. Constant Volume, 3000 CFM, 2.0 motor
A TE 026 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = To System: TS 012 [Cli Fans: 026 Supply Supply, Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TE 026 [Cli Fans: 026 Supply Supply, Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TE 026 [Cli Fans: 026 Supply Supply, Cooling Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cli Fans: TE 012 SUPPLY Suppl 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cli Fans: TE 012 SUPPLY Suppl 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 024 [Cli Fans: TE 012 SUPPLY Suppl 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 024 [Cli Fans: TS 024 SUPPLY Suppl 2 TS 018 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 024 [Cli Fans: TS 024 SUPPLY Suppl	Provide a compliance certificate         Subscription         Provide a compliance certificate         Provide a compliance certification	9 2 2 1	Fan System: TS 018   CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade S0 60 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 KBu/h, Proposed Efficiency = 1.5.00 EER, Required Efficiency = 1.10 EER Fan: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 1.30 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 KBu/h, Proposed Efficiency = 1.30 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 3 KBu/h, Proposed Efficiency = 1.30 CCP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 3 KBu/h, Proposed Efficiency = 1.30 CCP, Required Efficiency = 3.20 CCP Cooling Mode: Capacity = 3 KBu/h, Proposed Efficiency = 1.30 CCP, Required Efficiency: 1.10 EER Fan System: TE 0.03 I CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TE 0.38 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: teach - Single Package DV Unit. Capacity = 67 KBu/h, Affic-Cooled Condenser, Air Economizer Proposed Efficiency = 1.30 EER, Required Efficiency: 1.10 EER + 1.24 IEER Fan: Stem: RTUS   CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TO SUPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Gingle Zone): Heating: teach - Central Furnaco, Gas, Capacity = 15 KBu/h Proposed Efficiency = 1.50 EER, Required Efficiency: 1.00 EER + 1.24 IEER Fan: RTUS UPPLY Supply, Constant Volume, 300 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Gingle Zone): Heating: teach - Central Furnaco, Gas, Capacity = 155 KBu/h Proposed Efficiency = 1.50 EER, Required Efficiency: 1.0.80 EER + 1.22 IEER Fan: Stem: MAU SUPPLY Supply,
A TE 026 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 012 [Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 024 [Cl Fans: TS 024 SUPPLY Supp 2 TS 018 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 024 [Cl Fans: TS 024 SUPPLY Supp 3 TS 024 SUPPLY Supp	POID ADDRESS       Provide Pro	9 2 2 1	Fan System: TS 018   CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade S0 06 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 KBu/h, Proposed Efficiency = 15.20 EFR, Required Efficiency = 4.10 EER Fan: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 4.20 CPA, Required Efficiency: 4.10 EER Fan: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 3 KBu/h, Proposed Efficiency = 4.30 COP, Required Efficiency: 4.10 EER Fan System: TE 038   CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TE 038 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1each - Central Furnace, Gas, Capacity = 73 kBu/h, Proposed Efficiency = 4.30 CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TR US UPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1each - Central Furnace, Gas, Capacity = 73 kBu/h, Proposed Efficiency = 13.0 EER, Required Efficiency: 10.00 % Et or 80% AFUE Fan System: TRUS   CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TR US UPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Gingle Zone): Haating: 1each - Central Furnace, Gas, Capacity = 15 kBu/h Proposed Efficiency = 13.0 EER, Required Efficiency: 10.80 EER + 12.2 IEER Fan System: MAU   CELLS - Compliance (Motor nameplate HP method) : Passes Fans: MAU SUPPLY Supply, Constant Volume, 3000 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade MAU KIPPLEY Suppl
A TE 026 Supply Supply. Co Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Fan System: TS 012   Cl Fans: TE 012 SUPPLY Supp 3 TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Fan System: TS 024   Cl Fans: TS 024 (Single Zone): Ground Source Heat Pun Heating Mode: Capacity = Proposed Efficiency = Cooling Mode: Capacity = Proposed Efficiency = Co	POID ADDRESS       Provide Pro	9 2 2 1 1 4 2	Fan System: TS 018   CELLS - Compliance (Motor nameplate HP method) : Passes Fan: TS 018 SUPPLY Supply, Constant Volume, 750 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade S0 60 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 3.50 COP, Required Efficiency = 3.20 COP Cooling Mode: Capacity = 6 KBu/h, Proposed Efficiency = 1.5.20 EER, Required Efficiency : 1.4.10 EER Fan: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 6 KBu/h, Proposed Efficiency = 4.30 COP, Required Efficiency : 4.10 EER Fans: TS 006 SUPPLY Supply, Constant Volume, 240 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade TE 038 (Single Zone): Ground Source Heat Pump Heating Mode: Capacity = 32 KBu/h, Proposed Efficiency = 4.30 COP, Required Efficiency : 4.20 CPP Cooling Mode: Capacity = 32 KBu/h, Proposed Efficiency = 4.30 COP, Required Efficiency : 4.20 CPP Cooling Mode: Capacity = 32 KBu/h, Proposed Efficiency = 4.30 COP, Required Efficiency : 4.10 EER Fan System: TE 003   CELLS - Compliance (Motor nameplate HP method) : Passes Fans: TE 008 SUPPLY Supply, Constant Volume, 1250 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade ROOF TOP UNIT (Single Zone): Heating: 1ach - Control Furnace, Gas, Capacity = 73 KBu/h Proposed Efficiency = 1.30 EER, Required Efficiency : 60.00 % EL or 80% AFUE Cooling: 1ach - Single Package DX Unit, Capacity = 74 KBu/h, Mr-Cooled Condenser, Ar Economizer Proposed Efficiency = 1.30 EER, Required Efficiency : 1.00 EER + 1.20 EER Fans: TR US UPPLY Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Heating: 1ach - Central Furnace, Gas, Capacity = 155 KBu/h Proposed Efficiency : 1.00 EER + 1.22 EER Fans: MAU SUPPLY Supply, Constant Volume, 300 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade MAU (Single Zone): Haating: 1 ach - Unit Heater, Electric, Capacity = 15 KBu/h MAU FELLEP = Complia

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
	Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	Complies Does Not Not Observable Not Applicable	Exception: Areas such as security or emergency areas that need continuous lighting.
	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	Complies Does Not Not Observable Not Applicable	<b>Exception:</b> Areas such as security or emergency areas that need continuous lighting.
C405.2.1. 2 [EL19] <sup>1</sup>	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	Does Not	Exception: Requirement does not apply.
C405.2.1. 3 [EL20] <sup>1</sup>	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting only when occupancy for the same area is detected.		Exception: Requirement does not apply.
C405.2.2. 1,	Each area not served by occupancy sensors (per C405.2.1) have time- switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	Complies Does Not Not Observable Not Applicable	<b>Exception:</b> Areas such as security or emergency areas tha need continuous lighting.

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

Section #	Rough-In Electrical Inspection	Complies?	Commen
	Daylight zones provided with		Requirement will be met.
C405.2.3. 1, C405.2.3. 2 [EL23] <sup>2</sup>	individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	Does Not Not Observable Not Applicable	
C405.2.4 [EL26] <sup>1</sup>	Separate lighting control devices for specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.4 [EL27] <sup>1</sup>	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.5 [EL28] <sup>null</sup>	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C405.2.6 [EL30] <sup>null</sup>	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.3 [EL6] <sup>1</sup>	Exit signs do not exceed 5 watts per face.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.6 [EL26] <sup>2</sup>	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	□Complies □Does Not □Not Observable □Not Applicable	
C405.7 [EL27] <sup>2</sup>	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	Complies Does Not Not Observable Not Applicable	
C405.8.2, C405.8.2. 1 [EL28] <sup>2</sup>	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	Complies Does Not Not Observable Not Applicable	
C405.9 [EL29] <sup>2</sup>	Total voltage drop across the combination of feeders and branch circuits <= 5%.	Complies Does Not Not Observable Not Applicable	

 
 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact

 Report date:
 09/30/22
 Project Title:
 Champaign County Jail Consolidation
 Report date:
 09/30/22
 Project Title:
 Champaign County Jail Consolidation

 CK/202190
 Page
 3 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 4 of 8
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satelli

NO CHECKLIST ITEMS THIS PAGE

	1 H	igh Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impa
Project Title: Data filename:	H:\GHR Projec	ounty Jail Consolidati ts\7432 - Champaigr ounty Jail Consolidati	Cou	nty - Satellite Jail - Consolida ghts.cck	ation	COMCHEC

Quantity System Type & Description Requirements

> Proposed Efficiency = 14.50 SEER, Required Efficiency: 13.00 SEER Fan System: SPLIT SYSTEM | DATA ROOMS -- Compliance (Motor nameplate HP method) : Passes

SUPPLY Supply, Constant Volume, 1800 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade

Mechanical Compliance Statement *Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist. Richard Van Note Kichel Van Note 9/30/22 Signature Date Richard Van Note - PE

COMcheck Software Version 4.1.5.5 Inspection Checklist Energy Code: 2018 IECC

Requirements: 96.0% were addressed directly in the COM*check* software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Re requirement, the user certifies that a code requirement will be met and how that is docu is being claimed. Where compliance is itemized in a separate table, a reference to that ta

Section # & Req.ID	Plan Review	Complies?	Commer
C103.2 [PR2] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C406 [PR9] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	Complies Does Not Not Observable Not Applicable	

Report date: 09/30/22 K\202190 Page 2 of 22

Project Title: Champaign County Jail Consolidation Report date: 09/30/22 Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 3 of 22 Champaign County Jail Consolidation Mechanical.cck

 
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact
 Project Title: Champaign County Jail Consolidation Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK Champaign County Jail Consolidation Mechanical.cck

		1				REIFSTECK Reid
ts/Assumptions	Section # & Req.ID C303.3,	Final Inspection	Complies?	Comments/Assumptions Requirement will be met.		ARCHITECTURE. CONSTRUCTION MANAGEMENT.
	C408.2.5. 2 [FI17] <sup>3</sup>		Does Not Not Observable Not Applicable			INTERIORS. 217.351.4100
	C405.4.1 [FI18] <sup>1</sup>	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	Complies Does Not Not Observable Not Applicable	See the Interior Lighting fixture schedule for values.		Lincolnshire Center, Suite #4 909 Arrow Road Champaign, IL 61821
	C405.5.1 [FI19] <sup>1</sup>	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal	Does Not Not Observable	See the Exterior Lighting fixture schedule for values.		www. rr-arch.com
	C408.1.1 [FI57] <sup>1</sup>	documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming	□Not Applicable □Complies □Does Not □Not Observable □Not Applicable			
	C109.3.5	procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.		Dequirement will be met		
	1 [FI16] <sup>3</sup>	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	Does Not Not Observable	Requirement will be met.		
	C408.3 [FI33] <sup>1</sup>	ensure proper calibration, adjustment, programming, and operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.		
	Addition	al Comments/Assumptions:				
act (Tier 3) Report date: 09/30/22	Project Titl	1 High Impact (Tier 1)           e:         Champaign County Jail Consolidati	2 Medium Impa	act (Tier 2) 3 Low Impact (Tier 3) Report date: 09/30/22	and copyright Architects and sha except by writte Only written din scale drawings.	nd specifications are the property of Reifsteck Reid & Company all not be used on any other work n agreement with the Architect. tensions shall be used. Do not Dimensions shall be verified on
CK\202190 Page 5 of 8		me: H:\GHR Projects\7432 - Champaigr Champaign County Jail Consolidati	County - Satellite J		the notice	discrepancy shall be brought to of the Architect prior to the encement of any work.
		NO CH	ECKLIST ITEMS TH	IS PAGE	REVISIONS No. Date 1 10/1/2022	Description ADDENDUM #1
act (Tier 3) Report date: 09/30/22 CK\202190 Page 6 of 8	Project Titl Data filena	e: Champaign County Jail Consolidati me: H:\GHR Projects\7432 - Champaign Champaign County Jail Consolidati	County - Satellite J	Report date: 09/30/22 ail - Consolidation\COMCHECK\202190 Page 8 of 8		
Requirements screen. For each cumented, or that an exception table is provided.	, C403.12.3 [FO9] <sup>3</sup>	Snow/ice melting system and freeze	Complies?         Does Not         Not Observable         Not Applicable	Exception: Requirement does not apply.	Co	2022-009 Satellite Jail nsolidation Project
Report date: 09/30/22 CK\202190 Page 4 of 22	Project Titl Data filena		on n County - Satellite J	Report date: 09/30/22	C SATE CONS 502 Urb ISSUE	AMPAIGN OUNTY LLITE JAIL - JAIL SOLIDATION S Lierman Ave ana, IL 61802 D FOR BIDDING OMCHECK
					DATE 27SEP22 PROJECT 202190	SHEET <b>G202</b>

Σ

22 7:13:05 F

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] <sup>3</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

ection # Reg.ID	Plumbing Rough-In Inspection Complies?	Comments/Assumptions	& Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.       Complies         Pumps that circulate water between a       Complies	Exception: Requirement does not apply. Exception: Requirement does not apply.	C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
L7] <sup>3</sup>	heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.		C404.7 [PL8] <sup>3</sup>	piping to 104°F. Demand recirculation water systems have controls that start the pump upon receiving a signal from the	Complies	Exception: Requirement does not apply.
404.6.3 L7] <sup>3</sup>	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle	Exception: Requirement does not apply.	6404.7	action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	Not Observable	Franking Desuirement dess act and r
PL7] <sup>3</sup>	Pumps that circulate water between a heater and storage tank have controls Does Not that limit operation from startup to <= 5 minutes after end of heating cycle.		C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to $104^{\circ}F$ .	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
404.6.3 27] <sup>3</sup>	Pumps that circulate water between a Complies heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	Exception: Requirement does not apply.	C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
2404.6.3 PL7] <sup>3</sup>	Pumps that circulate water between a Complies heater and storage tank have controls Does Not that limit operation from startup to <= 5 minutes after end of heating	Exception: Requirement does not apply.	C404.7	of the water entering the cold-water piping to 104°F. Demand recirculation water systems		Exception: Requirement does not apply.
2404.6.3 PL7] <sup>3</sup>	cycle.     INot Applicable       Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.     Image: Complies Does Not Image: Complies Does Not Image: Complies Does Not Image: Complies Does Not Image: Complies Does Not Image: Complies Image: Com	Exception: Requirement does not apply.	[PL8] <sup>3</sup>	have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	Does Not Not Observable Not Applicable	
404.6.3 PL7] <sup>3</sup>	Pumps that circulate water between a heater and storage tank have controls boos Not that limit operation from startup to <= 5 minutes after end of heating cycle.	Exception: Requirement does not apply.	C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
404.6.3 PL7] <sup>3</sup>	Pumps that circulate water between a heater and storage tank have controls Does Not that limit operation from startup to <= 5 minutes after end of heating cycle.	Exception: Requirement does not apply.	C404.7 [PL8] <sup>3</sup>	piping to 104°F. Demand recirculation water systems have controls that start the pump upon receiving a signal from the potion of a upper of future of	□Complies □Does Not □Not Observable	Exception: Requirement does not apply.
2404.6.3 PL7] <sup>3</sup>	Pumps that circulate water between a Complies heater and storage tank have controls Does Not that limit operation from startup to <= 5 minutes after end of heating	Exception: Requirement does not apply.	6404.7	action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	Not Applicable Complies	Evention: Dequirement door not apply
2404.6.3 PL7] <sup>3</sup>	cycle.     Inot Applicable       Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.     Complies	Exception: Requirement does not apply.	C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to $104^{\circ}F$ .	Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
:404.7 PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	Exception: Requirement does not apply.	C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)

 Project Title:
 Champaign County Jail Consolidation
 Report date:
 09/30/22

 Project Title:
 Champaign County Jail Consolidation
 Report date:
 09/30/22

 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 6 of 22

 Data filename:
 H:\GHR Projects\7432 - Champaign County Jail Consolidation Mechanical.cck
 Project Title:
 Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 6 of 22

 Champaign County Jail Consolidation Mechanical.cck
 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 8 of 22

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.8.4 [ME142] <sup>2</sup>	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: V301
C403.8.4 [ME142] <sup>2</sup>	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: V301
C403.8.4 [ME142] <sup>2</sup>	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: V301
C403.8.4 [ME142] <sup>2</sup>	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: V301
C403.8.4 [ME142] <sup>2</sup>	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: V301
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > $1/4$ hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Commo
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are	□Complies □Does Not	Exception: Requirement
	designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Not Observable □Not Applicable	
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling	Complies Does Not	Requirement will be met.
	system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Not Observable □Not Applicable	Location on plans/spec
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling	□Complies □Does Not	Requirement will be met.
	system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Not Observable □Not Applicable	Location on plans/spec
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling	□Complies □Does Not	Requirement will be met.
	system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Not Observable □Not Applicable	
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling	Complies	Exception: Requirement
	system with fans > 1/4 hp are designed to vary the indoor fan airflov as a function of load and comply with detailed requirements of this section.	□Not Observable □Not Applicable	
C403.8.5 [ME143] <sup>2</sup>	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling	Complies Does Not	Exception: Requirement
	system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	□Not Observable □Not Applicable	
C403.12.1 [ME71] <sup>2</sup>	Systems that heat outside the building envelope are radiant heat systems	□Complies □Does Not	Exception: Requirement
	controlled by an occupancy sensing device or timer switch.	□Not Observable □Not Applicable	
C403.2.3 [ME55] <sup>2</sup>	HVAC equipment efficiency verified.	Complies Does Not	See the Mechanical Systems
		□Not Observable □Not Applicable	
C403.5.5 [ME113] <sup>2</sup>	Fault detection and diagnostics installed with air-cooled unitary DX	Complies Does Not	Requirement will be met.
	units having economizers.	□Not Observable □Not Applicable	
C403.5.5 [ME113] <sup>2</sup>	Fault detection and diagnostics installed with air-cooled unitary DX	Complies Does Not	Requirement will be met.
	units having economizers.	□Not Observable □Not Applicable	
C403.2.2 [ME59] <sup>1</sup>	Natural or mechanical ventilation is provided in accordance with	Complies Does Not	Requirement will be met.
	International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	□Not Observable □Not Applicable	Location on plans/spec

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)

 Project Title:
 Champaign County Jail Consolidation
 Report date: 09/30/22

 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page 11 of 22

 Champaign County Jail Consolidation Mechanical.cck
 Consolidation
 Consolidation

 
 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

 Project Title:
 Champaign County Jail Consolidation
 Report date: 09/30/22

 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page
 12 of
 22

 Champaign County Jail Consolidation Mechanical.cck
 Consolidation Mechanical.cck
 Consolidation
 Consolidation

& Req.ID	Plumbing Rough-In Inspection	Complies?	Co
C404.7 [PL8] <sup>3</sup>	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	Complies Does Not Not Observable Not Applicable	Exception: Requirer

**Comments/Assumptions** nt does not apply. ec: V301 37 ec: V301 nt does not apply. nt does not apply. nt does not apply. ns list for values. ec: V111 & V112

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions		
2403.7.1 ME59] <sup>1</sup>	Demand control ventilation provided for spaces >500 ft2 and >25	Complies Does Not	Exception: Systems with energy recovery.		
	people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	□Not Observable □Not Applicable			
C403.7.2 [ME115] <sup>3</sup>	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate	Complies Does Not Not Observable	Exception: Requirement does not apply.		
	fans to 50% or less of design capacity.	Not Applicable			
C403.7.6 [ME141] <sup>3</sup>	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is	Complies Does Not	Exception: Requirement does not apply.		
	provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	□Not Observable □Not Applicable			
C403.7.4 [ME57] <sup>1</sup>	Exhaust air energy recovery on systems meeting Table C403.7.4(1)	Complies Does Not	Requirement will be met.		
	and C403.7.4(2).	□Not Observable □Not Applicable			
C403.7.5 [ME116] <sup>3</sup>	Kitchen exhaust systems comply with replacement air and conditioned	Complies	Exception: Requirement does not apply.		
	supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.				
2403.11.1	HVAC ducts and plenums insulated in accordance with C403.11.1 and	Complies	Requirement will be met.		
C403.11.2 [ME60] <sup>2</sup>	constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	□Not Observable □Not Applicable	Location on plans/spec: 23 0700		
C403.5, C403.5.1,	Air economizers provided where required, meet the requirements for	Complies	Requirement will be met.		
C403.5.2 ME62] <sup>1</sup>	design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.		Location on plans/spec: 23 0993		
C403.5, C403.5.1,	Air economizers provided where required, meet the requirements for	Complies	Requirement will be met.		
C403.5.2 ME62] <sup>1</sup>	design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.		Location on plans/spec: 23 0993		
3	Air economizers automatically reduce outdoor air intake to the design	Complies Does Not	Requirement will be met.		
ME124] <sup>1</sup>	minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	□Not Observable □Not Applicable	Location on plans/spec: 23 0993		
3	Air economizers automatically reduce outdoor air intake to the design	Complies Does Not	Requirement will be met.		
[ME124] <sup>1</sup>	minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	□Not Observable □Not Applicable	<b>Location on plans/spec:</b> 23 0993		

Section # Blumbing Bough In Inspection Complian? Comparts/Accumptions	Section # Mechanical Rough-In Inspection Complies? Comments/Assumptions	REID
#     Plumbing Rough-In Inspection     Complies?     Comments/Assumptions       & Req.ID     C404.7     Demand recirculation water systems     Complies     Exception: Requirement does not apply.	& Req.ID         C402.2.6         Thermally ineffective panel surfaces of □Complies         Exception: Requirement does not apply.	ARCHITECTURE. CONSTRUCTION MANAGEMENT.
[PL8] <sup>3</sup> have controls that start the pump       Does Not         upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature       INot Observable	[ME41] <sup>3</sup> sensible heating panels have insulation >= R-3.5.          □Does Not □Not Observable □Not Applicable	INTERIORS.
of the water entering the cold-water piping to 104°F.	C403.11.3 HVAC piping insulation insulated in [ME61] <sup>2</sup> accordance with Table C403.11.3. Does Not	217.351.4100 Lincolnshire Center, Suite #4
Additional Comments/Assumptions:	Insulation exposed to weather is protected from damage and is provided with shielding from solar	909 Arrow Road Champaign, IL 61821
	radiation.       C403.11.3       HVAC piping insulation insulated in accordance with Table C403.11.3.       Complies       Exception: Requirement does not apply.	www.rr-arch.com
	Insulation exposed to weather is protected from damage and is provided with shielding from solar	
	c403.11.3       HVAC piping insulation insulated in [ME61] <sup>2</sup> Complies accordance with Table C403.11.3.       Complies Does Not       Exception: Requirement does not apply.	
	Insulation exposed to weather is protected from damage and is provided with shielding from solar	
	C403.8.4 [ME142] <sup>2</sup> Motors for fans that are not less than 1/12 hp and less than 1 hp are       Complies Does Not       Requirement will be met.	
	electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the	
	C403.8.4       Motors for fans that are not less than       □Complies       Requirement will be met.         [ME142] <sup>2</sup> 1/12 hp and less than 1 hp are       □Does Not       Requirement will be met.	
	electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the	
	C403.8.4       Motors for fans that are not less than       □Complies       Requirement will be met.         [ME142] <sup>2</sup> 1/12 hp and less than 1 hp are       □Does Not       Not	
	electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the	
	C403.8.4       Motors for fans that are not less than       □Complies       Requirement will be met.         [ME142] <sup>2</sup> 1/12 hp and less than 1 hp are       □Does Not       Requirement will be met.	
	electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the	
	C403.8.4 [ME142] <sup>2</sup> Motors for fans that are not less than 1/12 hp and less than 1 hp are       Complies Does Not       Requirement will be met.	
	electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the	
	C403.8.4       Motors for fans that are not less than       □Complies       Requirement will be met.         [ME142] <sup>2</sup> 1/12 hp and less than 1 hp are       □Does Not       Requirement will be met.	
	electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the	
	means to adjust motor speed.	The sector
		These drawings and specifications are the property and copyright of Reifsteck Reid & Company Architects and shall not be used on any other work
1 High Impact (Tier 1)     2 Medium Impact (Tier 2)     3 Low Impact (Tier 3)	1     High Impact (Tier 1)     2     Medium Impact (Tier 2)     3     Low Impact (Tier 3)	except by written agreement with the Architect. Only written dimensions shall be used. Do not scale drawings. Dimensions shall be verified on
Project Title: Champaign County Jail Consolidation Report date: 09/30/22 Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 9 of 22 Champaign County Jail Consolidation Mechanical.cck	Project Title:       Champaign County Jail Consolidation       Report date: 09/30/22         Data filename:       H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190       Page 10 of 22         Champaign County Jail Consolidation Mechanical.cck       Consolidation       Consolidation	the job site. Any discrepancy shall be brought to the notice of the Architect prior to the
		commencement of any work. REVISIONS
		No. Date Description 1 10/1/2022 ADDENDUM #1
Section # Mechanical Rough-In Inspection Complies? Comments/Assumptions	Section # Mechanical Rough-In Inspection Complies? Comments/Assumptions	
C403.5.3. System capable of relieving excess Complies Requirement will be met.	C403.4.3.       Closed-circuit cooling tower within heat pump loop have either automatic [ME121]       Complies bypass valve or lower leakage positive closure dampers. One circuit tower       Exception: Requirement does not apply.	
INCLUES: Operation to prevent overpressuring INot Observable Incated to avoid recirculation into the building.	closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water	
C403.5.3.       System capable of relieving excess outdoor air during air economizer [ME125] <sup>1</sup> Complies Does Not       Requirement will be met.         Image: Complex comp	flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat	
INct Applicable building. The relief air outlet Incated to avoid recirculation into the building.	exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed	
C403.5.3. Return, exhaust/relief and outdoor air Complies Adampers used in economizers have Motorized dampers that automatically Shut When ont in use and meet Motorized and meet Motorized dampers that automatically Shut When ont in use and meet Motorized dampers and meet Motorized dampers that automatically Shut When ont in use and meet Motorized dampers and meet Motorized dampers and meet Motorized dampers that automatically Shut When ont in use and meet Motorized dampers an	circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting	
maximum leakage rates. Reference DNot Applicable section C403.7.7 for details.	down the circulation pump on the cooling tower loop.         C403.4.3.       Closed-circuit cooling tower within         Complies       Exception: Requirement does not apply.	
C403.5.3. Return, exhaust/relief and outdoor air Complies Requirement will be met. 5 dampers used in economizers have Does Not [ME126] <sup>1</sup> motorized dampers that automatically Not Observable	3.2 heat pump loop have either automatic [ME121] <sup>3</sup> heat pump loop have either automatic closure dampers. Open-circuit tower within heat pump loop have automatic □Not Observable □Not Applicable	
maximum leakage rates. Reference Section C403.7.7 for details.	flow around the tower. Open- or	
C403.4.3.       Closed-circuit cooling tower within       Complies       Exception: Requirement does not apply.         3.2       heat pump loop have either automatic       Does Not         [ME121] <sup>3</sup> bypass valve or lower leakage positive closure dampers. Open-circuit tower       Not Observable	closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the	
within heat pump loop have automatic Not Applicable valve to bypass all heat pump water flow around the tower. Open- or	cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling	
closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting	tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the	
down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate	cooling tower loop.         C403.4.3.       Closed-circuit cooling tower within         Cooling tower loop have either automatic       Doese Net    Exception: Requirement does not apply.	
heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting dear the structure of the	[ME121] <sup>3</sup> bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic	
down the circulation pump on the cooling tower loop.	flow around the tower. Open- or closed-circuit cooling towers used in	
3.2 heat pump loop have either automatic Does Not bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic Not Applicable	conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the conjunction to pump on the	
valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in	cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and	
conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the	heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	
cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling		
tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the		
cooling tower loop.		
I     High Impact (Tier 1)     I     Medium Impact (Tier 2)     I     Low Impact (Tier 3)       Project Title:     Champaign County Jail Consolidation     Report date: 09/30/22	I     High Impact (Tier 1)     I     Medium Impact (Tier 2)     I     Low Impact (Tier 3)       Project Title:     Champaign County Jail Consolidation     Report date: 09/30/22	
Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 14 of 22 Champaign County Jail Consolidation Mechanical.cck	Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 15 of 22 Champaign County Jail Consolidation Mechanical.cck	
		ITB#2022-009 Satellite Jail Consolidation Project
		CHAMPAIGN
		COUNTY
		SATELLITE JAIL -
		JAIL
		CONSOLIDATION
		502 S Lierman Ave
		Urbana, IL 61802
		ISSUED FOR BIDDING
		COMCHECK

 Project Title:
 Champaign County Jail Consolidation
 Report date: 09/30/22

 Data filename:
 H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190
 Page 13 of 22

 Champaign County Jail Consolidation Mechanical.cck
 Consolidation
 Consolidation

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

COMCHECK 27SEP22 PROJECT 202190

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	□Not Observable	Exception: Requirement does not apply.
C403.4.1. 4 [ME63] <sup>2</sup>	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C403.3.3 [ME35] <sup>1</sup>	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: V301
C403.3.3 [ME35] <sup>1</sup>	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: V301
C403.3.3 [ME35] <sup>1</sup>	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.2. 1 [ME53] <sup>3</sup>	Air outlets and zone terminal devices have means for air balancing.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: V111 & V112
C403.5, C403.5.1, C403.5.2 [ME123] <sup>3</sup>	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

Section		and the second second		Section			
# & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions	# & Req.ID	Final Inspection	Complies?	Comments/Assumptions
[EL26] <sup>2</sup>	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	Complies Does Not Not Observable Not Applicable		C303.3, C408.2.5. 3 [FI8] <sup>3</sup>	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
[EL27] <sup>2</sup>	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certificatior under an approved certification program or the equipment efficiency	Complies Does Not Not Observable Not Applicable		C403.2.2 [FI27] <sup>3</sup>	HVAC systems and equipment capacity does not exceed calculated loads.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: H301 & V301
C405.8.2,	ratings shall be provided by motor manufacturer (where certification programs do not exist). Escalators and moving walks comply	Complies		C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: 23 0993
1 [EL28] <sup>2</sup>	with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	□Does Not □Not Observable □Not Applicable		C403.2.4. 1 [FI47] <sup>3</sup>	system. Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: 23 0993
[EL29] <sup>2</sup>	Total voltage drop across the combination of feeders and branch circuits <= 5%.	Complies Does Not Not Observable Not Applicable		C403.2.4. 1 [FI47] <sup>3</sup>	system. Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: 23 0993
				C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: 23 0993
				C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: 23 0993
				C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: 23 0993
				C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: 23 0993
				C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: 23 0993

 
 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)
 Project Title: Champaign County Jail Consolidation Report date: 09/30/22 Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 16 of 22 Champaign County Jail Consolidation Mechanical.cck

 
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: Champaign County Jail Consolidation Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 17 of 22 Champaign County Jail Consolidation Mechanical.cck

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions	
	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-	□Complies □Does Not	Exception: Requirement does not apply.	
C403.2.4. 2.2 [FI40] <sup>3</sup>	hour occupant override, 10-hour backup	□Not Observable □Not Applicable		
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3 [FI41] <sup>3</sup>	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Exception: Requirement does not apply.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable		
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Exception: Requirement does not apply.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable		
C403.2.4. 2.3	Systems include optimum start controls.	Complies Does Not	Requirement will be met.	
[FI41] <sup>3</sup>		□Not Observable □Not Applicable	Location on plans/spec: 23 0993	

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.1.1 [FI57] <sup>1</sup>	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	Complies Does Not Not Observable Not Applicable	
C408.2.1 [FI28] <sup>1</sup>	Commissioning plan developed by registered design professional or approved agency.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.3. 1 [FI31] <sup>1</sup>	HVAC equipment has been tested to ensure proper operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.3. 2 [FI10] <sup>1</sup>	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.3. 3 [FI32] <sup>1</sup>	Economizers have been tested to ensure proper operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.4 [FI29] <sup>1</sup>	Preliminary commissioning report completed and certified by registered design professional or approved agency.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.5. 1 [FI7] <sup>3</sup>	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.2.5. 3 [FI43] <sup>1</sup>	An air and/or hydronic system balancing report is provided for HVAC systems.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.5. 4 [FI30] <sup>1</sup>	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

 
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: Champaign County Jail Consolidation Report date: 09/30/22 Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 20 of 22 Champaign County Jail Consolidation Mechanical.cck

 
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: Champaign County Jail Consolidation Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 21 of 22 Champaign County Jail Consolidation Mechanical.cck

NO CHECKLIST ITEMS THIS PAGE

Project Title: Champaign County Jail Consolidation Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 22 of 22 Champaign County Jail Consolidation Mechanical.cck

Section # & Req.ID C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed	Complies?	Comments/Assumptions Requirement will be met. Location on plans/spec: H111 & H112	Section # C403.2.4. 1 [FI47] <sup>3</sup>	Final Inspection Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies?	Comments/Assumptions Requirement will be met. Location on plans/spec: H111 & H112	REIFSTECK REID Architecture. Construction management. Interiors. 217.351.4100
C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112	C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112	Lincolnshire Center, Suite #4 909 Arrow Road Champaign, IL 61821 www. rr-arch.com
C403.2.4. 1 [FI47] <sup>3</sup>	Minimum one humidity control device per installed	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112	C403.2.4. 1 [FI47] <sup>3</sup>	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: H111 & H112	
C403.2.4. 1.1 [FI42] <sup>3</sup>	supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	C403.2.4. 1.1 [FI42] <sup>3</sup>	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
C403.2.4. 1.1 [FI42] <sup>3</sup>	supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	C403.2.4. 1.1 [FI42] <sup>3</sup>	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
C403.2.4. 1.1 [FI42] <sup>3</sup>	supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	C403.2.4. 1.1 [FI42] <sup>3</sup>	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
C403.2.4. 1.1 [FI42] <sup>3</sup>	supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	C403.2.4. 1.1 [FI42] <sup>3</sup>		□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
C403.2.4. 1.1 [FI42] <sup>3</sup>	supplemental electric resistance heat from coming on when not needed.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.	C403.2.4. 1.1 [FI42] <sup>3</sup>	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
C403.2.4. 1.1 [FI42] <sup>3</sup>	supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	C403.2.4. 1.1 [FI42] <sup>3</sup>	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.	
C403.4.1. 2 [FI38] <sup>3</sup>	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: 23 0900	C403.4.1. 2 [FI38] <sup>3</sup>	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: 23 0900	
C403.2.4. 1.3 [FI20] <sup>3</sup>	Temperature controls have setpoint overlap restrictions.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: 23 0900	C403.2.4. 1.3 [FI20] <sup>3</sup>	Temperature controls have setpoint overlap restrictions.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: 23 0900	
C403.2.4. 2 [FI39] <sup>3</sup>	controls using automatic time clock or programmable control system.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Zones operated continuously.	C403.2.4. 2 [F139] <sup>3</sup>	Each zone equipped with setback controls using automatic time clock or programmable control system.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Zones operated continuously.	and specifications are the property t of Reifsteck Reid & Company
								all not be used on any other work

 
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: Champaign County Jail Consolidation Report date: 09/30/22

Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 18 of 22 Champaign County Jail Consolidation Mechanical.cck

 
 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)
 Project Title: Champaign County Jail Consolidation Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 19 of 22 Champaign County Jail Consolidation Mechanical.cck



Report date: 09/30/22

Report date: 09/30/22

Report date: 09/30/22

Report date: 09/30/22

Project Title: Champaign County Jail Consolidation Report date: 09/30/22 Data filename: H:\GHR Projects\7432 - Champaign County - Satellite Jail - Consolidation\COMCHECK\202190 Page 19 of 22 Champaign County Jail Consolidation Mechanical.cck

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

and specifications are the property nt of Reifsteck Reid & Company Architects and shall not be used on any other work except by written agreement with the Architect. Only written dimensions shall be used. Do not scale drawings. Dimensions shall be verified on the job site. Any discrepancy shall be brought to the notice of the Architect prior to the

commencement of any work.

REVISIONS

No. Date Description 10/1/2022 ADDENDUM #1

> ITB#2022-009 Satellite Jail Consolidation Project



COMCHECK 27SEP22 PROJECT 202190