memorandum | sabatini architects

Date:	01/27/2006	Project No.:	03140	.010		
Го:	Mike Wildgen, City Dave Corliss, City Mark Bradford, Cit Barry Walthall, Cit	of Lawrence ty of Lawrence				
From:	Dan Sabatini / Joh	n Reeves				
Re:	Lawrence F-M No.	5				
⊠ As Red	quested 🗌	For Your Use		For Approval		For Review and Comment
Comments	:					
nternation gross slab	al Energy Conserva , wall, roof and wind	ation Code 2003 (dow areas with o	(IECC 2 verhang	003). The Administr and orientations) a	ation f nd ma	No. 5 in accordance with the facility's building envelope data terial specification data (R and form the evaluation.
	are has calculated th n Section 3 of the E				ope is	8% better than the IECC code
f you have	any questions plea	ase contact Dan S	Sabatini	or me.		
John Reev Sabatini Ar	es chitects, Inc.					



COMcheck Software Version 3.1 Release 1

Envelope Compliance Certificate

2003 IECC

Report Date: 01/16/06

Data filename: C:\Program Files\Check\COMcheck\Station 5\LDCFM 5 clerestory.cck

Section 1: Project Information

Project Title: Lawrence Douglas County Fire Medical Administration Department

Construction Site: 1911 Stewart Ave Lawrence, KS 66046

Mark Bradford Lawrence Douglas County Fire Medical 746 Kentucky Lawrence, KS 66044 (785) 832-7600

Owner/Agent:

Designer/Contractor: John Reeves Sabatini Architects Inc 805.A New Hampshire Lawrence, KS 66044 (785) 331-3399

jreeves@sabatiniarchitects.com

Section 2: General Information

Building Location (for weather data): Lawrence, Kansas

Climate Zone: 10b

Heating Degree Days (base 65 degrees F): 4734 Cooling Degree Days (base 65 degrees F): 1565

Project Type: New Construction

Glazing Area Percentage: 36%

Building Type Floor Area
Office 8261

Section 3: Requirements Checklist

Envelope PASSES: Design 8% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Admin North: Metal Frame, 16" o.c.	1456	21.0	0.0	0.111	0.103
Window J: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	84			0.300	0.643
Window B: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	18			0.300	0.643
Window G: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	24			0.300	0.643
Windows F: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	144			0.300	0.643
Window 211.1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, PF 0.27, VLT 0.70	31			0.300	0.643
Window Q: Metal Frame with Thermal Break:Double Pane with Low-E, Tinted, SHGC 0.40, PF 0.45, VLT 0.70	204			0.300	0.643
Window O: Metal Frame with Thermal Break:Double Pane with Low-E, Tinted, SHGC 0.40, PF 0.60, VLT 0.70	225			0.300	0.643
Window P: Metal Frame with Thermal Break:Double Pane with	95			0.300	0.643

Low-E, Tinted, SHGC 0.40, PF 0.18, VLT 0.70 Door 211.1: Glass, Clear, SHGC 0.40, PF 0.27, VLT 0.70 Comments: insulated glass	24			0.300	0.643
Basement Wall 1: Solid Concrete or Masonry > 8", Furring: None, Wall Ht 14.0, Depth B.G. 14.0	1073		10.0	0.085	0.124
Admin East: Metal Frame, 16" o.c. Comments: Admin brick veneer, frame walls	1432	21.0	0.0	0.111	0.103
Windows G: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	67			0.300	0.643
Window H: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	42			0.300	0.643
Windows B: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	36			0.300	0.643
Windows 216.1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, PF 0.27, VLT 0.70	44			0.300	0.643
Window 202: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, PF 0.82, VLT 0.70	56			0.300	0.643
Window N: Metal Frame with Thermal Break:Double Pane with Low-E, Tinted, SHGC 0.40, PF 1.30, VLT 0.70	104			0.300	0.643
Door 216.1: Glass, Clear, SHGC 0.40, PF 0.27, VLT 0.70 Comments: insulated glass	24			0.300	0.643
Vestibule 202: Air Lock Entry Comments: vestibule	32			0.300	0.161
Admin East Clerestory 1: Metal Frame, 16" o.c. Comments: clerestory wall	124	21.0	0.0	0.111	0.103
Admin East Clerestory 2: Metal Frame, 16" o.c. Comments: clerestory wall	147	21.0	0.0	0.111	0.103
Basement Wall 2: Solid Concrete or Masonry > 8", Furring: None, Wall Ht 14.0, Depth B.G. 14.0	247		10.0	0.085	0.124
Admin South: Metal Frame, 16" o.c. Comments: Admin brick veneer, frame walls	625	21.0	0.0	0.111	0.103
Window G: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	24			0.300	0.643
Window J: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	84			0.300	0.643
Windows F: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	144			0.300	0.643
Window S: Metal Frame with Thermal Break:Double Pane with Low-E, Tinted, SHGC 0.40, PF 0.61, VLT 0.70	301			0.300	0.643
Exterior Wall Stone South: CMU >8" with Empty Cells, Furring: None Comments: Prairie Stone Wall	2136		10.0	0.078	0.103
Window K: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	12			0.300	0.643
Window L: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	39			0.300	0.643
Window M: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, VLT 0.70	30			0.300	0.643
Door 117.2: Solid Comments: hollow metal door	21			0.300	0.161
Admin South Clerestory 2: Metal Frame, 16" o.c. Comments: clerestory wall	73	21.0	0.0	0.111	0.103
Admin West: Metal Frame, 16" o.c. Comments: Admin brick veneer, frame walls	913	21.0	0.0	0.111	0.103
Window 201: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.40, PF 1.00, VLT 0.70	56			0.300	0.643
Window R: Metal Frame with Thermal Break:Double Pane with Low-E, Tinted, SHGC 0.40, PF 0.41, VLT 0.70	460			0.300	0.643
Window N: Metal Frame with Thermal Break:Double Pane with Low-E, Tinted, SHGC 0.40, PF 1.30, VLT 0.70	104			0.300	0.643
Door 204.2: Solid Comments: hollow metal door	21			0.300	0.161
Vestibule 201: Air Lock Entry Comments: vestibule	32			0.300	0.161
Basement Wall 3: Solid Concrete or Masonry > 8", Furring: None, Wall Ht 14.0, Depth B.G. 14.0	247		10.0	0.085	0.124
Sloped Roof 1: Metal Roof with Thermal Blocks Comments: admin sloped roof	5137	0.0	20.0	0.048	0.056
Flat Roof 2: Structural Slab Comments: admin flat roof	3604		20.0	0.047	0.056
Admin Slab: Slab-On-Grade:Unheated, Horizontal 4 ft.	8256		10.0		

	eline calculations ONLY, and are not code requirements. eation, and Vapor Retarder Requirements:
 1. All joints and penetrations are caulked, 2. Windows, doors, and skylights certified 3. Component R-values & U-factors labeled 4. Stair, elevator shaft vents, and other date 5. Cargo doors and loading dock doors are Recessed lighting fixtures are: (i) Type assembly with a 0.5 inch clearance from 7. Building entrance doors have a vestibul Exceptions: Building entrances with revolving do 	gasketed, weather-stripped, or otherwise sealed. as meeting leakage requirements. ed as certified. impers integral to the building envelope are equipped with motorized dampers. e weather sealed. IC rated and sealed or gasketed; or (ii) installed inside an appropriate air-tight in combustible materials and with 3 inches clearance from insulation material. e and equipped with closing devices.
Doors that open directly from a space 8. Vapor retarder installed.	e less than 3000 sq. ft. in area.
specifications and other calculations submitted was meet the 2003 IECC requirements in COMcheck	design represented in this document is consistent with the building plans, with this permit application. The proposed envelope system has been designed to
Compliance Statement: The proposed envelope specifications and other calculations submitted were the 2003 IECC requirements in COMcheck Requirements Checklist.	design represented in this document is consistent with the building plans
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