702 KAR 4:160

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

District Name:	Dayton Inc	dependent	District Code:	147	Facility Name:	Lincoln Elementary	School _Code:	030		
Proje	ect Name:	Dayton Inde	ependent s	Date: 8/16/ Schools - Ath		REH: 168-523 - BP #1 - Lincoln Elementary Coolin	g Tower F	Replacement		
PROJECT TYPE: Yes No Gross Bullding Area (sf.)										
New Building										
Addition										
Renovation										
Provislo	ns for Future	Expansion:								
Proposed Alternates: (1) Cooling Tower Manufacturer										
(2)										
(3)										
BUILDING CONSTRUCTION CHARACTERISTICS:										
Descrint	ion of Buildi	ng Structure:								
Descript		=								
E	xterior Walls	s:								
R	oof Structure):	-							
							ü.			
ENERG	Y EFFICIEN	T DESIGN (F	(RS 157.4	50 and KRS	<u>157.455)</u> :					
	90	_Energy Co	nsumption	"Existing" (kl	Btu/sf/yr)					
	85	Eneray Co	nsumption	Target (kBtu	/sf/vr)					
YES	NO									
	Ø	LEED Cert	ified	Othe	ar:					
_	_ _		LEED Certified Other: Designed to meet Energy Star							
	2	-	W.		10% (Minimum	1)				
	2	Whole Buil	ding Life C	Cycle Cost Ar	nalysis Demons	strating Cost Effective Design				
		Life Cycle Cost Analysis Software Used:								
If not ye	es to one or	more of the	above, e	cplain why.	Projec	ct is a renovation with old systems t	hat will no	ot meet these requirements		
	Ū.	Designed t	o be Net-Z	 (ero				984301345 310		
	☑ .	Designed t								
Energy	Efficient De	esign Featur	es: (See	List Page 4,	or Use Drop I	Down List)		,		
		Orlentation	O YE			·				
Gross E	Exterior Wall	Area (sf):		**		Avg. Exterior Wall R-Value	e:	X		
Gross Window / Door Area (sf): Avg. Window/Door R-Value:							e:			
Gross Roof Area (sf): ±3,600 sf Avg, Roof R-Value:										
Exterior Wall Type: Other:										
Roofing Type:								er:		
HVAC System Type:							Othe	er: A		
Classroom Lighting:								ər:		
Active Daylighting:								er:		
Passive Daylighting:							Othe	er:		
On Site Energy Generation: Other:										

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

Project: Dayton Independe	ent Schools - Athletic Complex - BP#1		ng Tower
Air Purification Systems :	YES NO	REH: 168-523	Date: 8/16/23
Gray Water System :	<u>₽</u>		
Low Water Use Fixtures :			
	TES [] NO [2]		
DI LIMBING, NUA			
<u>PLUMBING</u> : N/A			
Type of Sewage Disposal:		-	4
HEATING, VENTILATION	AND AIR CONDITIONING: N/A	ū	
Heating Only:	Heating & Mechanical:	HVAC: x	A/C Only:
	Ventilation Only		
Fuel Source/Backup (if app	plicable):	400	
ELECTRICAL:			•
Source of Electric Power:	Utility	Lighting Intensity (fc.	
Voltage Serving Facility:	208V 3 Phase	Std. Classrooms Library/Media Ctr	N/A N/A
		Science Lab	N/A
Number of Convenience O Classrooms	NI/A	Science Cirm Band/Music	N/A N/A
Library/Media Center	N/A N/A	Business Ed	N/A
Business Ed	N/A	Shops	N/A
Family & Consumer Science	c N/A	Corridors	N/A
		Stairways	N/A
Camera System:	N/A	Cafeteria	N/A
		Pre-School Clrm	N/A
	•	Art Classroom	N/A N/A
		Gymnasium	IV/A
SPECIAL EQUIPMENT: N	1/A		
System C	Conduit Only Cond	duit & Wiring	Complete with Equipment
Bell			
Clock			
Fire Alarm			
Intercom		· · · · · · · · · · · · · · · · · · ·	
Telephone			
Television			
Computer			
Wireless Network			
Interactive White bd	•		
Voice Amplification			
FIXED EQUIPMENT: N/A	ę.		
Teacher Cabinet		Custodial Room Shelve	98
Student Lockers		Sclence Laboratories	
Folding Bleachers		Family & Consumer Sc	
Library Furnishings		Other	
Dry Food Shelves		Other	

OUTLINE SPECIFICATIONS ENERGY DESIGN CRITERIA

roject: Dayton Independent Schools - Athletic REH Project #168-523 Date: 8/16/23									
Complex - BP#1 - Lincoln Elementary Cooling Tower Replacement									
INTERIOR FINISH SCHEDULE: N/A									
AREA	FLOOR	WAINSCOT	WALLS	CEILING					
General Office									
Corridors									
Custodial Kitchen									
Cafeteria									
Gym Showers/Locker	-			-					
Toilets		-		\ 	31				
Library/Media Cnt									
Classrooms Music					-				
Art		H M		F					
Science				F					
FMD									
OTHER AREAS									
Miscellaneous Pro	ject Specific Featur	es:							
Kentucky Register		8/16/2023							
	•	Signature Robert Ermet Hayes	& Associates, PLLC	Date:					
Kentucky Register	ed Engineer	Date:							
rionidally riogists	od Engineer.	Date.							
	1	KLH Engineer	s, Inc.		,				
Board Designee o	r Superintendent:	Date:							
•									

Energy Efficient Design Features Lists

Exterior Wall Type

- A face brick, captured air space, board insulation and waterproof CMU
- B face brick, captured air space, sprayed insulation on CMU
- C face brick, captured air space, sheathing over metal insulated stud system, interior finish system
- D face brick, ICF poured concrete, Interior finish system
- E other, describe

Roofing Type List

- A modified bitumen over rigid insulation.
- B EPDM over rigid insulation
- C plastic single ply over rigid insulation
- D metal roofing over nailable deck with insulation
- E asphalt shingle roofing over nallable deck with Insulation
- F other, describe

HVAC System Type List

- A two pipe unit ventilator system
- B water source heat pump system with air make up
- C ground source heat pump system with air make up
- D hybrid water source heat pump system with boller/chiller and well field with air make up
- E variable refrigerant flow (VRF) with air make up
- F hybrid geothermal/variable refrigerant flow (VRF) with air make up
- G variable refrigerant volume (VRV) with air make up
- H hybrid geothermal/variable refrigerant volume (VRV) with air make up
- I chilled beam system
- J hybrid chilled beam/geothermal system
- L other

Classroom Lighting List

- A T8 fluorescent fixtures
- B T5 fluorescent fixtures
- C high energy gas fixtures
- D low voltage systems
- E other

Active Daylight System List

- A classroom fluorescent dimming including dimming switches, ballasts and sensors
- B occupancy light control sensors
- C remote sensor bl-level lighting with no fixtures dimming
- D manual bi-level lighting with no fixture dimming
- E other
- F none

Passive Daylight Systems List

- A upper classroom clerestory lighting with sloped ceiling plane
- B lower classroom clerestory lighting that does NOT require sloping the celling place
- C exterior light shelves
- D solar tubes without dimming
- E solar tubes with internal dimmers
- F other
- G none

On Site Energy Generation List

- A solar water heating
- B solar electric generation (small units for demonstration or for limited areas)
- C solar electric generation (to support the entire building's energy needs)
- D wind generation (small units for demonstration or for limited areas)
- E wind generation (to support the entire building's energy needs)
- F other
- G none