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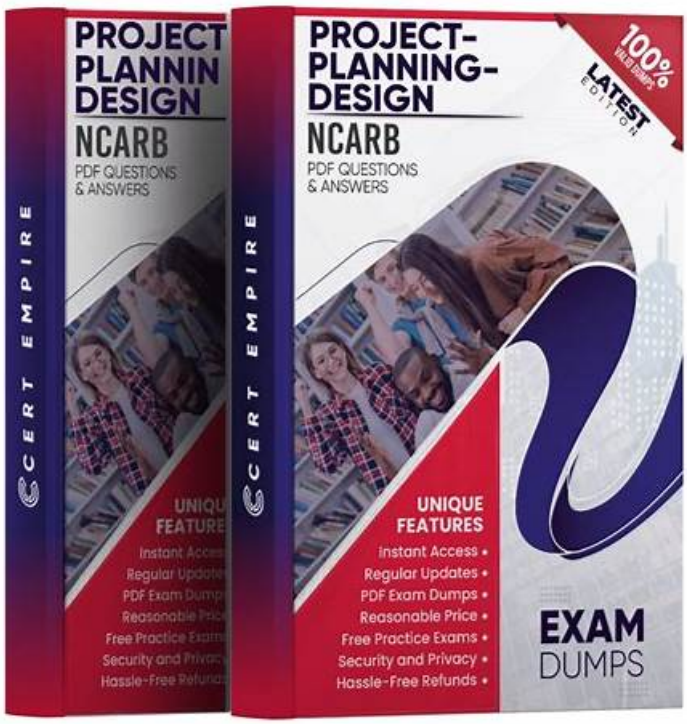

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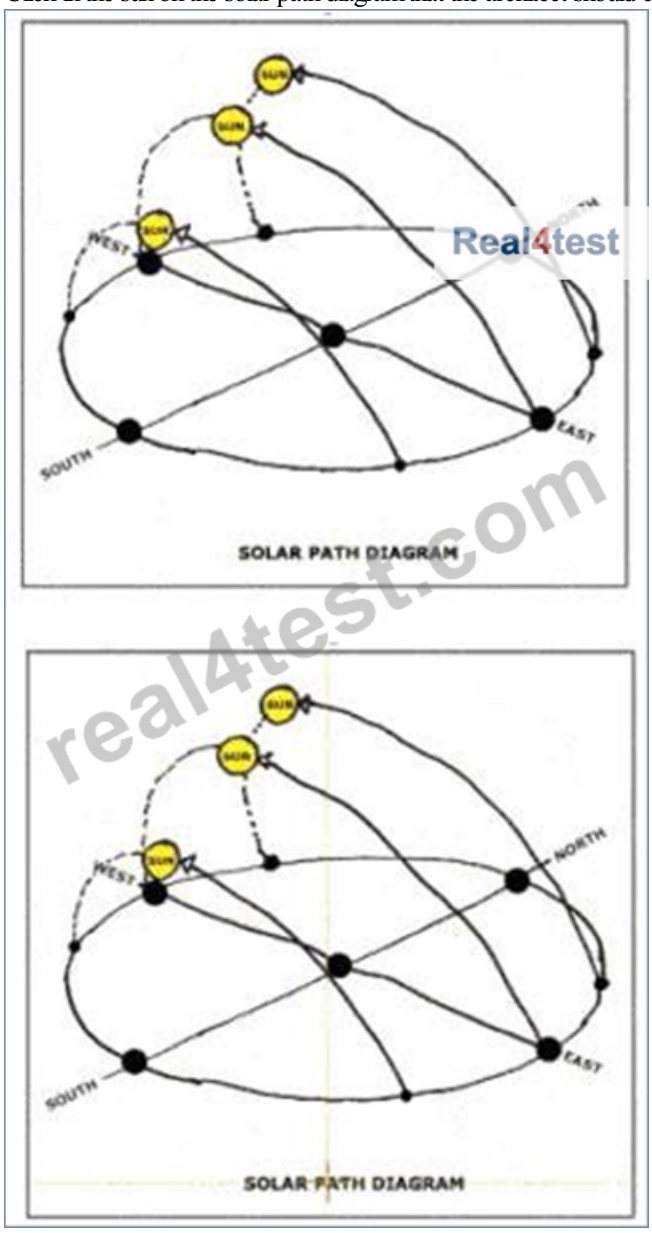
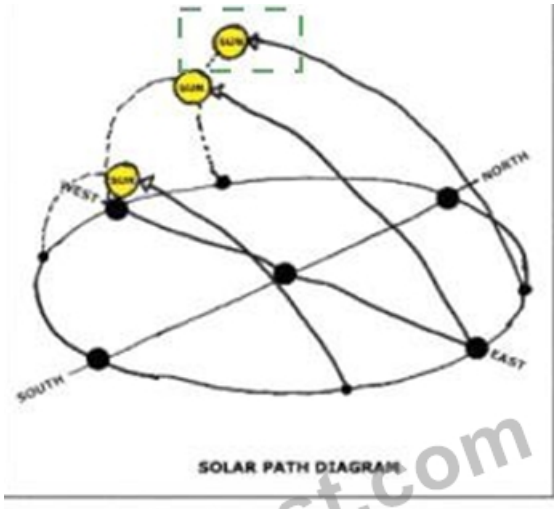
NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q94-Q99):

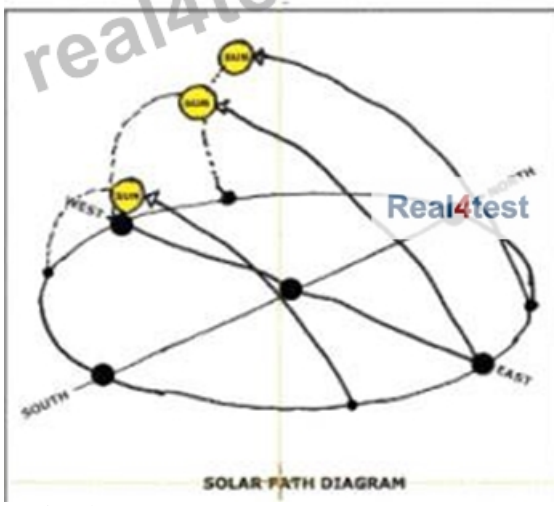
NEW QUESTION # 94
An architect is designing overhangs for a building on a site in the southeastern United States. The architect desires to minimize heat gain during the summer months.
Click in the sun on the solar path diagram that the architect should consider when designing the overhangs.



Answer:

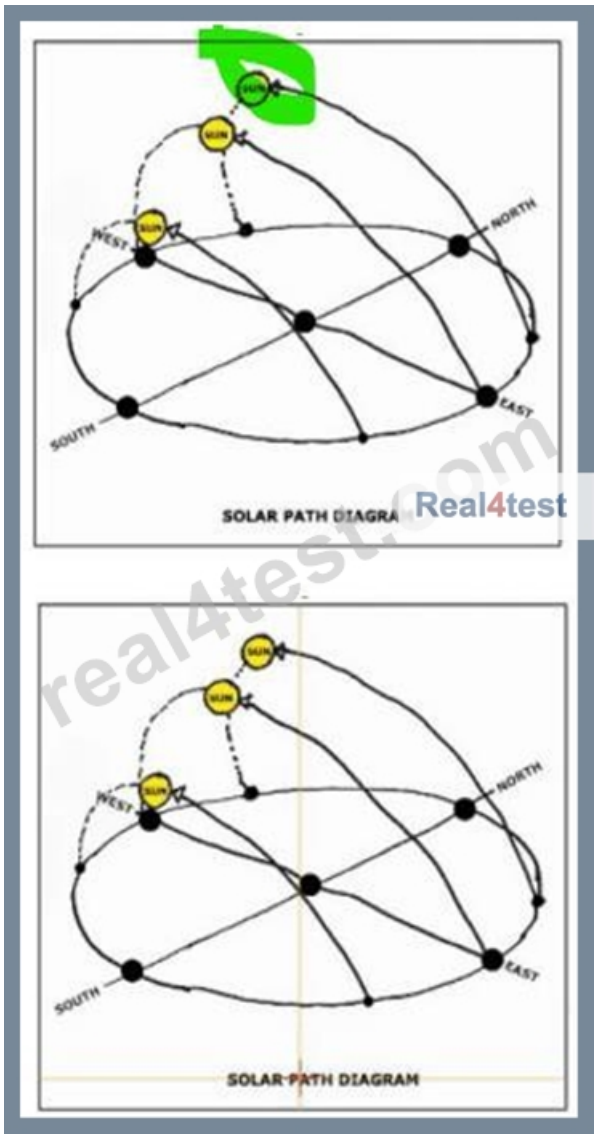
Explanation:





Explanation:

A diagram of solar path diagram AI-generated content may be incorrect.



* The solar path diagram shows the sun's trajectory through the sky at different times of the year.
* In the southeastern U.S., during summer months, the sun reaches a high altitude (near the top of the solar path diagram), typically toward the southern sky.
* Designing overhangs to block this high summer sun reduces direct solar heat gain inside the building, improving thermal comfort and reducing cooling loads.
* The lower sun position corresponds to winter when sunlight penetration is beneficial for passive solar heating and daylighting, so overhangs should allow low-angle winter sun while shading high-angle summer sun.

On the provided diagrams, the sun symbol at the highest arc near the south (the highest yellow sun on the upper diagram) represents the summer sun path to focus on for shading design.

NEW QUESTION # 95

Refer to the exhibit (photo showing diagonal cracks in a wall).
The structural damage evident in the photograph illustrates a classic example of failure due to which of the following?

- A. Excessive diaphragm flexure
- B. In-plane shear
- C. Overturning

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The diagonal cracking pattern seen in the photo is characteristic of in-plane shear failure in structural walls or diaphragms. In-plane shear occurs when lateral forces (such as seismic or wind loads) act parallel to the plane of the wall, causing it to deform in shear. This results in diagonal tension cracks typically forming at roughly
45 degrees, as shown in the image.
Overturning (Option A) refers to the rotation of a wall or structural element about its base or a pivot point due to lateral forces. Overturning typically causes tension cracks at the base or separation at connections rather than diagonal shear cracks.
Excessive diaphragm flexure (Option C) causes bending deformations in horizontal diaphragms such as floors or roofs, usually leading to different cracking patterns, such as horizontal or vertical flexural cracks.
This type of in-plane shear failure is critical to identify for seismic design, as walls or diaphragms must be detailed to resist shear forces to prevent such damage.
References:
ARE 5.0 PPD - Environmental Conditions and Context, Seismic and Lateral Force Design The Architect's Handbook of Professional Practice, 15th Edition - Structural Systems NCARB Seismic Design Guidelines

NEW QUESTION # 96
An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. The school is located in a temperate coastal climate that requires almost equal heating and cooling days during the year. Good indoor air quality and increased energy efficiency are priorities.
Given the building use and site location, which of the following approaches should be used for the mechanical system in the school?

- A. Geothermal System
- B. Hydronic Convection System
- C. Single Duct Constant Air Volume (CAV)
- D. Evaporative Cooling and Trombe Wall

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
A geothermal system is highly efficient for climates requiring balanced heating and cooling, such as temperate coastal zones. It provides stable, efficient temperature control and good indoor air quality.

Hydronic convection (A) and CAV systems (C) are less efficient and have slower response.
Evaporative cooling and Trombe walls (D) are best for dry climates.
Geothermal HVAC systems support sustainability goals in schools with fluctuating heating/cooling needs.
References:
ARE 5.0 PPD - Building Systems and Assemblies, Mechanical Systems
The Architect's Handbook of Professional Practice, 15th Edition - Sustainable HVAC

NEW QUESTION # 97
A proposed six-story commercial building will have a basement level with finished floor 20'-0" below grade.
The building site is located less than 1 mile from the coastline. A site survey indicates that the average site elevation is 5'-0" above sea level.
Based on the site-specific conditions, which four issues should the architect address in the design? Check the four that apply.

- A. Dewatering during construction
- B. Water table height
- C. Spread footings
- D. Potential corrosion of exterior finishes due to salt in water vapor
- E. Hydrostatic pressure on basement walls
- F. Radiant flooring in the basement slab

Answer: A,B,D,E

Explanation:
Comprehensive and Detailed Explanation:
Dewatering during construction (A): The deep excavation (20' below grade) near sea level likely intersects the water table, necessitating dewatering to keep the site dry during construction.
Water table height (B): Proximity to the coast raises the water table, which affects foundation and waterproofing design.
Potential corrosion due to salt (D): Salt in water vapor and marine air can corrode metal exterior finishes and reinforcements; materials and coatings must be selected accordingly.
Hydrostatic pressure on basement walls (E): High water tables create significant lateral water pressure requiring robust waterproofing and structural resistance.
Spread footings (C) may or may not be suitable depending on soil but are not specific to coastal or basement conditions.
Radiant flooring (F) is unrelated to site conditions and more a mechanical choice.
References:
ARE 5.0 PPD - Environmental Conditions and Context, Site and Foundation Design The Architect's Handbook of Professional Practice, 15th Edition - Coastal and Marine Environment Design

NEW QUESTION # 98
A site has been engineered with a 1:20 grade.
Which of the following sidewalk designs would be the most cost-effective way to get from the top to the bottom and still be in compliance with the accessibility standards?

- A. Cutting diagonally across the slope at 1:12 with no handrail
- B. Cutting diagonally across the slope at 1:10 with a handrail
- C. Switchback ramps at 1:12 with a handrail
- D. At the same grade as the slope with no handrail

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
A 1:20 slope means a 5% grade (1 vertical unit per 20 horizontal units), which is slightly steeper than the ideal maximum slope for accessible ramps.
* Option C: Cutting diagonally across the slope at 1:12 (~8.33%) slope without a handrail is the most cost-effective design that still complies with accessibility standards. According to the Americans with Disabilities Act (ADA) and ICC A117.1, the maximum slope for an accessible ramp is 1:12. Handrails are required on ramps with a rise greater than 6 inches (150 mm). If the rise is less than 6 inches, handrails are not required.
Because the diagonal cut reduces the slope to 1:12 and the total rise is likely less than 6 inches given the gentle 1:20 original slope,

handrails are not mandatory, making this solution economical and code compliant.
* Option A: Switchback ramps at 1:12 with handrails are compliant but more expensive due to increased construction complexity and space requirements.
* Option B: A 1:10 slope (10%) exceeds the maximum allowed slope for accessible ramps and requires handrails, thus non-compliant.
* Option D: Following the existing 1:20 slope without modification does not provide the maximum accessibility slope and may be acceptable but might not comply with certain stricter local codes for ramps.
Therefore, Option C balances accessibility, cost, and compliance optimally.
References:
ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Site Accessibility and Grading ADA Standards for Accessible Design (2010) ICC A117.1 Accessibility Standards The Architect's Handbook of Professional Practice, 15th Edition, Chapter 7: Site Planning and Accessibility

NEW QUESTION # 99
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