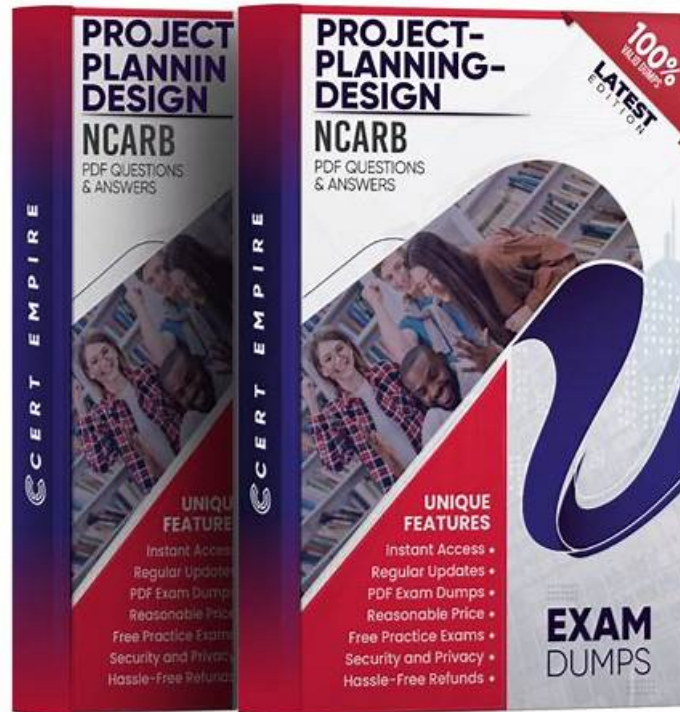


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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q23-Q28):

NEW QUESTION # 23

A new gallery is being built and requires shading elements to protect the light-sensitive artwork on display.

Which of the following are design criteria relevant to the design of shading components on the west facade of the new gallery?

Check the three that apply.

- A. Low-E glazing on the west facade
- **B. Spacing and depth of vertical louvers**
- C. Annual temperature data
- D. Survey of adjacent building heights
- **E. Solar Heat Gain Coefficient of the west glazing**
- **F. Height of the west gallery wall**

Answer: B,E,F

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For shading design on west facades:

Height of the wall (A): Determines the scale and proportion of shading devices.

Solar Heat Gain Coefficient (SHGC) of glazing (C): Influences how much solar radiation passes through windows.

Spacing and depth of vertical louvers (D): Controls shading effectiveness against low-angle afternoon sun.

Low-E glazing (E) helps but is glazing performance, not shading design.

Annual temperature (B) is climatic but less directly relevant.

Adjacent building heights (F) influence shading from surroundings but are secondary.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Solar Control

The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Design

NEW QUESTION # 24

An architect has just received client approval of the Schematic Design documents for a three-story, outpatient medical clinic. The clinic is located within a mixed-use development governed by a City-approved Planned Development (PD) document. The medical clinic design utilizes standardized departmental layouts and includes outpatient clinics, as well as treatment spaces, administrative spaces and public/lobby spaces.

The site needs to accommodate four different vehicular traffic flows: patient traffic, staff traffic, service and delivery traffic, and emergency services traffic. In addition, a pedestrian plaza must connect to the mixed-use development sidewalks. The plaza must provide space for bicycle parking and will serve as the future bus stop.

The site design addresses several challenges related to building orientation. The southeast facade, with excellent visibility from the highway, is the location of all service equipment. The building entrance faces northwest, convenient to the parking but not visible from the highway.

The client believes future patient volumes will outgrow the clinic. The PD document allows for a planned Phase 2 development on the adjacent vacant site to the southwest. Phase 2 would include a second building (2 story, 80,000 BGSF) and/or a parking deck.

Other considerations for the project include:

- * Protected tree requirements are defined in the PD document.
- * Easy pedestrian access must be provided from Sycamore Boulevard.
- * All required parking for the clinic must be accommodated on site.
- * Programmed area includes 109,450 Departmental Gross Square Feet (DGSF) / 130,184 Building Gross Square Feet (BGSF).
- * Exterior material percentages are dictated by the PD document and shall not exceed specific percentages for Primary and Secondary Finishes.
- * All service equipment needs to be screened; see PD document for restrictions.
- * Signage opportunities are important to the client.
- * Acoustical privacy is a concern of the healthcare system.

The following resources are available for your reference:

- * Drawings, including a perspective, plans, and exterior elevations
- * Building Program, including client's departmental program and detailed program for Treatment 01 (Infusion)
- * Exterior Material Cost Comparisons
- * Planned Development Document

* IBC Excerpts, showing relevant code sections

* ADA Excerpts, showing relevant sections from the ADA Standards for Accessible Design



Which of the following design solutions best addresses the client's concerns related to building orientation, vehicular circulation, and future expansion?

- A. Separate vehicular traffic by type with dedicated access points, place the main entrance facing northwest toward parking for convenient access, and locate service equipment on the southeast facade screened as per PD requirements.
- B. Cluster patient and emergency vehicle access on the northwest facade with the main entrance adjacent, position staff and service access on the northeast, and minimize the pedestrian plaza to maximize parking area.
- C. Position the main entrance on the northeast facade to align with future Phase 2 development, route all vehicular traffic through a centralized loop road, and locate service equipment behind the building without screening to reduce costs.
- D. Locate all vehicular traffic access on one side of the site to simplify circulation and position the main entrance on the southeast facade facing the highway for maximum visibility.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The design must balance client priorities, regulatory requirements, and site conditions:

* Vehicular Circulation: Separating traffic flows by function reduces conflicts and improves safety- patients, staff, deliveries, and emergency vehicles each require distinct circulation paths.

* Building Orientation: The main entrance facing northwest towards parking prioritizes user convenience, even if this orientation has less highway visibility. The southeast facade, visible from the highway, is dedicated to service equipment screened per PD document restrictions.

* Pedestrian Plaza: Providing a pedestrian plaza connected to mixed-use development sidewalks, with bicycle parking and bus stop, aligns with site accessibility and transit integration goals.

* Future Expansion: Positioning the site elements to accommodate Phase 2 on the adjacent southwest vacant site facilitates growth without major disruption.

* Screening and Material Use: Service equipment screening and adherence to PD exterior material percentages maintain design compliance.

* Acoustical Privacy: The layout supports departmental adjacency and separation for privacy, crucial in healthcare design.

* Option B best addresses these concerns and reflects the project's functional, regulatory, and contextual needs as outlined in NCARB ARE 5.0 Project Integration and Site Planning content.

References:

ARE 5.0 Project Planning & Design Content Outline: Project Integration of Program and Systems - Site Planning and Circulation

City-approved Planned Development Document ADA Standards for Accessible Design The Architect's Handbook of Professional Practice, 15th Edition, Chapters 6 and 7 on Site Design and Program Integration

NEW QUESTION # 25

The design of a large, one-story building to be used for the storage of confidential documents is being evaluated for security. The owners wish to have as much storage space as possible.

Which of the following design strategies would be the most economical solution to maximize security?

- A. Minimize building entries and windows
- B. Increase building setbacks
- C. Add visual surveillance cameras

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Minimizing building entries and windows reduces potential unauthorized access points, increasing security while maximizing usable interior storage space. This approach is cost-effective compared to increasing setbacks (which requires more land) or installing surveillance systems (which adds operational costs).

NCARB PPD guidelines recommend minimizing access points and openings for high-security storage buildings.

References:

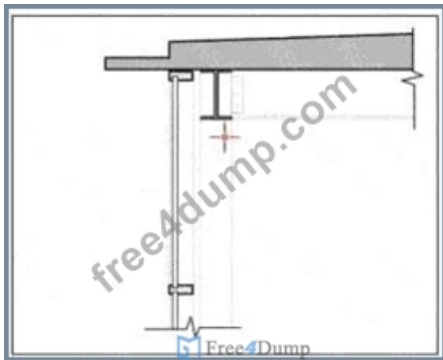
ARE 5.0 PPD - Environmental Conditions and Context, Security Design

The Architect's Handbook of Professional Practice, 15th Edition - Crime Prevention Through Environmental Design (CPTED)

NEW QUESTION # 26

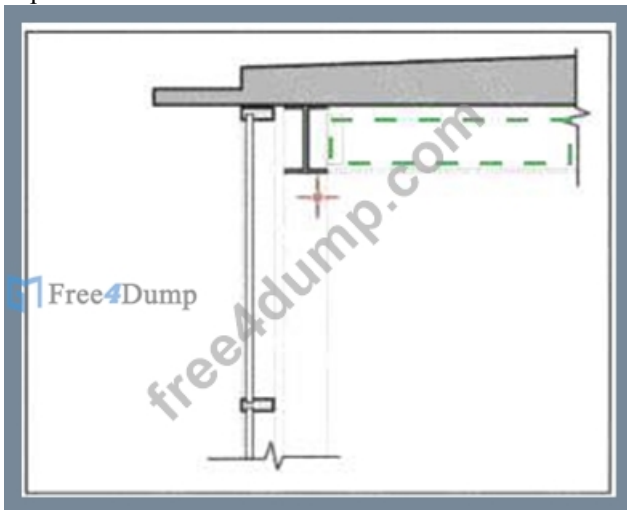
An owner requests full height, motorized solar shades for the lobby curtainwall.

Click on the area of the section detail where the shade should be installed so that it is concealed from the lobby.



Answer:

Explanation:



Explanation:

The solar shade should be installed within the ceiling recess above the curtainwall, behind the horizontal soffit—specifically in the void space between the top of the curtainwall glazing and the structural ceiling soffit (the shaded area immediately above the curtainwall glass in the section).



NEW QUESTION # 27

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

Answer: C

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 # 28

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