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90-degree parking - ANSWER A pattern of vehicle storage in which car stalls are arranged at a right angle to the access lane. Also known as Perpendicular Parking.

ABS - ANSWER Abbreviation for acrylonitrile-butadiene-styrene, a plastic used for drainage, waste, and vent piping, as well as for sewer systems.

absolute humidity - ANSWER The weight of water vapor per unit volume of air.

absorber plate - ANSWER The part of a solar collector that absorbs solar radiation.

absorption coefficient - ANSWER The percentage of incoming energy that is absorbed. In measuring radiant energy (light or heat) it is a unitless ratio that may vary depending on wavelength. In acoustics, it is called a sabin and may vary depending on frequency.

absorption refrigeration - ANSWER A cooling process resulting from the absorption of vapor by a brine solution, which is then heated to remove the moisture. The heat may be supplied by solar or other heating sources.

AC - ANSWER The abbreviation for either air-conditioning or alternating current, depending on the context.

acceleration - ANSWER The rate of change of velocity, usually expressed as a fraction of percentage of  $g$ , the acceleration of gravity.

accelerator - ANSWER A substance, such as calcium chloride, added to a concrete mix to speed up its setting and strength development.

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## NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q85-Q90):

### NEW QUESTION # 85

A family-owned apple farm in the Upper Midwest is taking advantage of a change in the local zoning code that added a new Agri-Tourism class in the existing farm zone. This allows the Owner to build a new facility on their existing site. The building will be open to the public and include a brewery, distillery, tap room, and market. The architect is ready to submit the drawings to the Owner for the 50% construction documents review.

To accommodate a compressed construction schedule, the Owner will be utilizing a design-build process. The Contractor has submitted the Pre-Engineered Metal Building (PEMB) shop drawings to the Architect for review, due to the lead time on this critical path item. Once construction begins, farming operations must be able to continue uninterrupted.

Key project information includes:

- \* Brewing and distilling will operate year-round.
- \* Brewery will initially include four fermenting tanks. Owner has requested space for at least two additional tanks. Potential expansion will be based on future sales.
- \* Distillery will produce 16% alcohol, which is classified as a flammable liquid. Fire separations are required.
- \* Tap Room is designed with seating for 300 people, not including exterior patio seating. It will have views to the working orchards and the historic buildings on site.
- \* Tap Room is scheduled to be open from August through November. Owner would like options to extend operating dates based on popularity.
- \* The Market area will feature local farm products and is not conditioned.
- \* Entire building will be fully sprinklered.
- \* Selected building materials are low-maintenance, as requested by the Owner, for durability and to reflect the nature of a working farm.
- \* Mechanical and electrical systems will be hung from the building structure. These loads are included in PEMB shop drawings.
- \* Public water and sewer is not available at the Project Site.
- \* Occupancy sensors are included to reduce utility costs and achieve energy conservation requirements.

The following resources are available for your reference:

- \* Architectural Drawings, including plans, elevations, sections, and schedules
- \* Consultant Drawings, including structural, HVAC, power distribution, and plumbing
- \* PEMB Shop Drawings
- \* Design and Construction Schedule
- \* Specification Excerpts, showing relevant spec sections
- \* IBC and ADA Excerpts, showing relevant code and accessibility sections
- \* After reviewing the documents, the architect discovers a coordination issue in the corridor.

Prior to completing the contract documents, the architect meets with the owner and confirms the scope of the new HVAC system is accurate for bidding. As a result of the meeting, the architect decides to include additional general notes on the site plan to assist the general contractor in bidding the related coordination of the new boilers being installed.

What note does the architect include?

- **A. GC to coordinate location of fuel storage tanks.**
- B. GC to coordinate results of city steam pressure and temperature test from utility company with boiler manufacturer.
- C. GC to coordinate gas service tie-ins with utility company.

**Answer: A**

Explanation:

Comprehensive Detailed Explanation with all NCARB ARE 5.0 Project Development and Documentation (PDD) Study Guide References The project is rural with no public water or sewer; by context there is likely no city steam and possibly no natural gas main. New boilers therefore need a fuel source on site (commonly LP/propane or fuel oil), and the site plan should direct the GC to coordinate fuel storage tank location (clearances, protection, truck access, setbacks, fire code).

A presumes a gas utility service that may not exist.

B presumes a city steam utility (not present).

PDD Reference: Division 01 coordination notes; IMC/IFC for on-site fuel storage clearances and protection; site plan general notes best practices.

### NEW QUESTION # 86

Which system would most impact the structural loads in a vegetated roof design?

- A. Fire suppression system
- **B. Green roofing assemblies**
- C. Lightning protection system
- D. HVAC duct routing

**Answer: B**

Explanation:

Green roofing adds significant dead loads due to soil and water retention layers. Structural engineers must verify load-bearing capacity. This is tied to ARE Objective 3.2 on evaluating integration of building systems.

### NEW QUESTION # 87

Refer to the exhibit.

The construction method shown in the detail should be used to prevent cracking in which of the following situations?

- A. Concrete flat slab buildings with exposed slab ceilings
- B. Exposed structural steel frame with no partitions to the structure
- C. Structural steel frame buildings with plaster ceilings
- **D. Concrete frame buildings with drywall suspended ceilings**

**Answer: D**

Explanation:

The detail shows a steel runner with sheetrock and screws, typical for drywall suspended ceiling assemblies.

This construction method is commonly used in concrete frame buildings with drywall ceilings suspended below the structural slab.

It helps prevent cracking by accommodating building movement and separating finish materials from structural movement.

Structural steel frame buildings with plaster ceilings typically have different finish and framing details.

Concrete flat slabs with exposed ceilings have no finish requiring such assemblies.

Exposed steel frames without partitions don't need drywall framing.

Reference:

NCARB ARE 5.0 Review Manual, Materials and Assemblies chapter

Interior finishes and drywall system installation guides (Gypsum Association)

### NEW QUESTION # 88

Refer to the exhibit.

For which of the following connections could diagonal bracing be eliminated?

- **A. A**
- B. B
- C. C
- D. D

**Answer: A**

Explanation:

The diagrams depict metal stud or curtain wall connections to structural frames under wind loading. Diagonal bracing can be eliminated when the connection itself provides lateral restraint in both directions.

A: Shows a connection with angles or plates attached to resist both in-plane and out-of-plane forces, creating a moment-resisting connection that can handle wind loads without diagonal bracing.

B, C, D: These connections allow slip or have limited fixity-requiring separate bracing to resist lateral loads.

PDD Reference: ARE 5.0 PDD "Structural Systems-Lateral load resistance in curtain wall and stud framing connections"; AISC Steel Design Guide for cladding attachment; Curtain wall engineering details.

### NEW QUESTION # 89

During plan review of an office building, the reviewer informs the architect of new regulations that require storage rooms greater than 150 sf be 1-hour fire rated. The proposed design has three 200 sf storage rooms that must meet the fire protection requirements. The architect needs to recommend how to meet this requirement with minimal effect on cost, time, and program.

- A. Construct storage rooms using rated concrete masonry.
- B. Make four 150 sf storage rooms and redistribute throughout the building.
- **C. Construct storage rooms using metal studs and Type X gypsum board.**
- D. Make six 100 sf storage rooms and redistribute throughout the building.

**Answer: C**

Explanation:

When new plan#review rules require 1-hour fire-resistance for storage rooms >150 sf, the least cost/time /program impact is typically a 1-hour gypsum board assembly (metal studs with Type X on each side per UL /GA listings).

A). CMU: durable but higher material and labor cost; heavier, slower to install.

C/D. Splitting rooms: Avoids the rating but disrupts program, adds doors/partitions, circulation, and can increase costs and complexity.

PDD References: IBC Ch. 7 Fire & Smoke Protection Features; GA/UL fire#rated wall assemblies; ARE 5.0 PDD-Code compliance strategies and cost/time implications of alternative assemblies.

## NEW QUESTION # 90

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