

PDD Exam Study Guide - PDD Customizable Exam Mode

PDD Study Exam 1 Questions & Answers 2024/2025

When should an architect submit drawings to the proper planning and permitting authority to begin the approval process? - ANSWERS After DD phase once a set of drawings has been prepared specifically for permitting purposes

SW - ANSWERS Most durable brick and acceptable for use when exposed to freeze-thaw cycles when wet or when bricks are in contact with ground

MW or MX - ANSWERS Brick is acceptable where it will not be exposed to freeze-thaw cycles when wet. Lower compressive strength than SW brick

NW or NX - ANSWERS Brick that acceptable when it will never be exposed to color or damp conditions such as when used indoors

FBS - ANSWERS brick for general use in masonry

FBX - ANSWERS brick for general use in masonry where requirements call for a higher degree of precision and low or permissible variation in size than permitted for FBS

FBA - ANSWERS Brick for general use in masonry selected to produce characteristics architectural effects resulting from nonuniformity in size and texture of the individual units

A701 - ANSWERS Addenda will be issued no later than four days prior to the date for receipt of Bids except an addendum with drawing the request for bids or one which includes postponement of the date for receipt of bids

During the bidding period for a new sports complex, the architect receives a request for information from one of the bidding contractors. The architect determines that the construction documents need to be revised.

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NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q17-Q22):

NEW QUESTION # 17

Option 1 is the originally designed connection detail for a banner hanging system of steel tube beams and threaded rods in a high atrium space. The threaded rod connections to the structure are fabricated as part of the structure. The remaining members are field fabricated. The weights of beam and banner are identical at each level. Option 2 has been proposed to alleviate constructability issues. The structural ramifications must be evaluated before this change can be approved.

Click on the nut in option 2 that will realize a greater load due to the proposed change.

Answer:

Explanation:

Explanation:

The upper nut at the top connection in Option 2 (the nut above the upper tube beam, highlighted at left).

By moving the threaded rod off the member's centroid in Option 2, the connection becomes eccentric. That eccentricity introduces a prying/bending moment at the rod/beam interface in addition to the vertical load from the banner and beam. In a through-rod with a nut above and below the member, the bottom nut primarily resists the direct gravity load in the concentric case (Option 1). When eccentricity is added (Option

2), rotation of the member about the rod induces additional uplift on the top nut (prying action), thereby increasing the force in the top nut relative to the concentric case.

Hence, the nut that will realize the greater load due to the proposed change is the upper nut at the top connection.

References

* NCARB ARE 5.0 PDD Handbook - Structural Systems & Detailing: Connections and eccentric loading.

* AISC Steel Design Guide: Prying Action in Bolted Connections (eccentric connections increase tensile force on the "prying" fastener).

* Ching, Building Construction Illustrated - Steel connections and load paths.

NEW QUESTION # 18

Before construction documents are complete, the owner requests a review of the timeline allowed for ASIs, RFIs, RFPs, and change orders as defined in the project manual.

Which section of the project manual is relevant to this request?

- A. Supplementary Conditions
- **B. Section 01 26 00 Contract Modification Procedures**
- C. Section 01 35 16 Alteration Project Procedures
- D. AIA Document A201

Answer: B

Explanation:

The owner's request for review of ASIs (Architect's Supplemental Instructions), RFIs (Requests for Information), RFPs (Requests for Proposals), and change orders relates to contract modifications.

Section 01 26 00 in the project manual typically covers Contract Modification Procedures, including timelines and processes for handling these changes.

AIA Document A201 is the general conditions but does not detail specific timelines.

Supplementary Conditions modify A201 but usually don't detail these timelines.

Section 01 35 16 is specific to alteration projects, not general contract mod procedures.

Reference:

NCARB ARE 5.0 Review Manual, Project Management chapter

CSI MasterFormat and project manual organization guides

NEW QUESTION # 19

Refer to the exhibit.

During spring rains, the foundation walls around the basement space, as illustrated, experience an increase in lateral pressures.

Which one of the following is also a major concern?

- A. Moisture absorption of the concrete foundation wall
- B. Increased weight on the footings
- C. Vertical upward pressure on the basement floor
- D. Differential lateral pressure on total building structure

Answer: C

Explanation:

The diagram shows a basement foundation wall below the water table. During heavy rains, the water table can rise, increasing hydrostatic pressure against foundation walls and under the slab.

Key concern:

While lateral water pressure against the walls is a factor, the question specifies "also a major concern". In this scenario, the water pressure beneath the slab can cause buoyant uplift - vertical upward pressure - known as hydrostatic uplift or floatation.

If this upward force exceeds the weight of the slab and the structure above, it can cause the slab to crack, lift, or fail - especially if there is no adequate under-slab drainage or tiedown anchors.

Why not the other options:

A). Moisture absorption of the concrete foundation wall - Concrete is porous, but waterproofing and drainage address this; not as critical in terms of structural threat as uplift.

B). Increased weight on the footings - Hydrostatic pressure acts laterally and upward; it does not significantly increase vertical load on footings in the same way dead load does.

D). Differential lateral pressure on total building structure - Lateral pressure affects the foundation walls, but "total building structure" is less directly impacted than the immediate risk to the slab from uplift.

NCARB PDD References:

ARE 5.0 Handbook - PDD Section: Site conditions and foundation systems

IBC 2018 Section 1805.4 - Waterproofing and drainage

Foundation Engineering principles - Hydrostatic uplift and buoyancy

NCARB PDD Study Guide Topic: Subsurface water control (sumps, drain tiles, hydrostatic relief)

NEW QUESTION # 20

Proposed trees along a residential street next to a new development site should first be selected based on which of the following?

- A. Provision of natural habitation for local wildlife
- B. Adaptability to local climate and soil conditions
- C. Seasonal foliage, color, and scale
- D. Dense root systems and wind resistance

Answer: B

Explanation:

Selecting trees for residential streets near a new development should prioritize:

Adaptability to local climate and soil conditions to ensure healthy growth and longevity.

While seasonal foliage, color, scale, and wildlife habitat are important, they are secondary to ensuring the tree can survive and thrive in the environment.

Dense root systems and wind resistance are considerations but often come after adaptability is confirmed.

Reference:

NCARB ARE 5.0 Review Manual, Site Design and Environmental Systems chapter Landscape architecture best practices and local planting guides

NEW QUESTION # 21

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.

Per the current energy code, the building envelope requirement for walls above grade in this climate zone is R13 + R10c.i.
What specification section must be added to the project?

- A. Specification Section 072119: Foamed-In-Place Insulation
- B. Specification Section 075419: Polyvinyl-Chloride (PVC)
- **C. Specification Section 072100: Thermal Insulation**

Answer: C

Explanation:

The energy code requirement R-13 + R-10 c.i. (continuous insulation) for above-grade walls necessitates adding/confirming a thermal insulation section that covers both cavity insulation (R-13) and continuous exterior insulation (R-10) (e.g., rigid boards, mineral wool boards). Section 072100-Thermal Insulation is the correct overarching specification.

072119 Foamed-In-Place is a product-specific section and not required unless using SPF as the c.i.

075419 PVC is roofing.

PDD Reference: IECC/ASHRAE 90.1 envelope compliance; CSI Div. 07-Thermal Insulation (072100) including rigid continuous insulation requirements

NEW QUESTION # 22

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Andrew: I am surprised that you did not include a PDD glossary for these definitions, We stepped back from the porthole and climbed a ladder to a mezzanine level midway up the outer tank, where Theresa PDD Exam Study Guide Fruth, a physics research fellow at University College London, was working on the detectors.

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