

## A. Plan Reading

The project superintendent is responsible for keeping the project on schedule while leading field activities. As such, they often do not have the time to look up information in the plans during the course of the day. You, as the project engineer, are an essential resource for the superintendent. They rely heavily upon your abilities to research and resolve unexpected issues that arise in the field, while communicating important information back to them and related trades. In doing so, the superintendent is able to remain in the field, thus preventing further issues from arising. The purpose of this exercise is to simulate typical questions that a superintendent might ask of you.

*Deliverable* – For each question below, provide an answer based on the plans and specs. Please write your answer directly on this form and return it with the Solutions Binder.

- 1) How many lockers are in the project? Of these lockers, how many are ADA compliant?

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91 Total, 8 ADA

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- 2) What type of wood are the wood slat benches made of?

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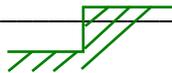
White Spruce

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- 3) What dimension does the court area slab need to be depressed in order to accommodate the thickness of the court flooring system? Draw the symbol show on the plans that indicate depressions or changes in elevation.

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3"



- 4) Deferred submittals require approval from the design team as well as the city, thus prolonging the typical approval process. List five deferred submittals on this project?

1. Aluminum Curtainwall / Storefront systems (08 41 13 + 08 44 13) 2. Glazed Decorative Metal Railing systems (05 73 13) 3. Metal Pan Stairs and Guardrails (05 51 13) 4. Exterior wall framing (05 40 00) 5. Telescoping stands (12 66 00) 6. Elevator guide rail and support brackets (14 24 00) 7. Mechanical equipment anchorage (CM to provide updates as necessary). 8. Equipment seismic bracing (CM to provide updates as necessary).

- 5) What is the maximum allowed sleeve size for piping through grade beams? What sheet gave you this information?

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6" P-202

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6) What is the finish elevation of the first floor slab?

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A: 100.0' C: 103.3'

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7) How many television broadcast pedestals are located on this project? Identify the panel and circuiting information for each. What room is the panel located in?

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(2) L1-5-51,53 & L1-5-50,52, Main Electrical Room [1039]

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8) List the layers of the methane gas mitigation system?

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Geocomposite permeable aggregate layer, sump, impermeable methan gas barrier, non-woven geotextile protection course

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9) What is the wind design load criteria for the project?

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110 mph

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10) How many Tristania Confertas are to be planted on the project? What detail shows you how this tree is to be planted? What size lodge pole stake does this species require?

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44 trees, detail 1/L-351, 2'x10' pole

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11) At this point of the project most walls have been framed and interior hollow metal door frames have been installed. The superintendent realizes the plans at some locations show both the door opening and ceiling height to be the same, this is an issue. Knowing the frames need 2" of clearance from the height of the ceiling, you will need to reorder frames. Indicate which openings will need to be reordered.

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2003.1, 2031.1, 2034.1, 2058.1, 2058.2, 2058.3, 2100.2, 2106.1.1, 2116.1

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12) We just received a delivery for the ceramic tile for the Hydro Rooms. The superintendent believes the subcontractor may have ordered the wrong type and color(s). Please verify what tile type and color(s) should be installed in the Hydro Rooms.

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Ceramic Tile: CT-2A & 2D: J105 Barbicon CT-2C: Cardoso

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13) The superintendent just received a large shipment of metal decking. Some of the metal deck is slotted/vented, but there is no plan or key that describes where the vented metal deck goes (i.e. as opposed to the non-vented metal deck). Please verify where the

vented metal decking goes. Make sure to reference the detail/note that provides you with this information.

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### Note 7 on S-002

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- 14) After the shower fixtures are installed, the superintendent seems to think the shower head and control valve look to be oddly high. What sheet provides you with the minimum allowed install clearance and what are these values?

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### G-005 Men: 6'-5" Women: 5'-11" Handle: 42"

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- 15) A shipment of F-12 light fixtures just arrived; you are being told this delivery is specific to the theater room. What is the actual make model and mounting type of the F-512 light fixture? It is also important to verify the color of the fixtures to ensure they match the color of adjacent finishes, so that you can verify the shipment is correct.

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### Lucifer: DL1ZP-[WHITE]-LED-FGL-2 + DH-NIC-ZF-LED-10-120E

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- 16) List the size(s) and types(s) of duct to be installed in the court area? Be sure to indicate which rooftop unit(s) will control the airflow over this space.

North: 32" diameter - Ductsox Fabric w/ Skelecore Hanging System - RTU-1A

South: 40" diameter - Ductsox Fabric w/ Skelecore Hanging System - RTU-1D

- 17) What is the purpose of the HSS 6x6x1/4 columns and the continuous HSS 8x6x5/8 at the sand pit? What is the approximate height of the HSS columns at this location? Assuming a 3'-0" door opening, what is the length of the continuous HSS 8x6x5/8 tube?

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Support the Storefront Glazing. 6x6x1/4: 3'-4" 8x6x5/8: 43'-01/2" +/- 1'-0"

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- 18) What types of light fixtures are shown in the two (2) hydrotherapy pool rooms? What special requirement is needed to be installed to control these lights as indicated by the plans? What panel(s) are they connected to and where is/are the panel(s) located? What other rooms are connected along this same circuit?

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1006: F24.B 1003: F24.J - Add'l drivers or ballasts - h1-2-17, courtyard - east hall [1028]

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- 19) Your framing subcontractor is requesting information regarding what type of paper towel and waste dispenser is to be installed in room [1057]. Indicate the code number that signifies this accessory and specify what the type, manufacture, and product

number to be installed. (One (1) point extra credit will be awarded if you can provide the framing subcontractor with the R.O. to be framed)

TA-3: Bobrick - B-3803

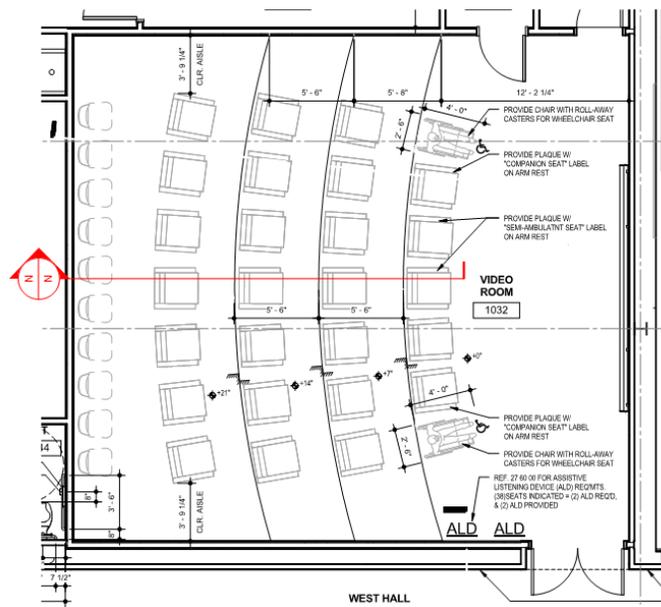
R.O.: 55 1/8" x 13"

TA-19: Bobrick - B-37063 50

R.O.: 28" x 13 7/8"

20) What substrate material is to be installed directly below the carpet at the theater room podium seating? Draw the section cut (based on the image below) through the podium seating including full detail with all finishes.

### USG Structural Panel Concrete Subfloor



Sketch: