

## Addendum #10

DATE: 8-7-14

### CONTENT FOR ADDENDUM #10:

1. Smith Dalia Architects – Addendum #8 – see attachments.
2. NOTE – refer to Addendum #1 for spec section 07 1400 Fluid-Applied Waterproofing as referenced in this Addendum #10 as part of tile installation at all tile locations. Tile contractors please include this scope of work as part of tile installation. Please indicate on Bid Form Alternate pricing for Thick-Set application at locations noted on drawing attached to this Addendum #10.
3. REMINDER – All bids to be submitted via email to Mark Hawks at [mark.hawks@fultoncountyga.gov](mailto:mark.hawks@fultoncountyga.gov) . Also, please copy William Mensah at [wmensah@winter-construction.com](mailto:wmensah@winter-construction.com) and Jeff Lewis at [jlewis@winter-construction.com](mailto:jlewis@winter-construction.com) with bids.
4. REMINDER – Deadline for RFI's to be 7 days prior to bid date and time.
5. NOTE – Deadline for posting Addenda to be 72 hours(business days) prior to bid date and time.

END OF ADDENDUM

***A D D E N D U M N O . : 0 8***

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<b>Project Name:</b>	Metropolitan Library
<b>Project Number:</b>	11165
<hr/>	
Date:	06 August 2004
To:	Evan Jahn - Heery/Russell; Jeff Lewis, William Mensah - Winter-Construction
From:	Sara Singleton, SDA
Copies:	Robyn Zurfluh, Craig Wertz, Glenn Grosse - SDA

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This addendum forms a part of the Contract Documents and modifies the original "Revised Pricing Documents" dated 05/28/14.

This Addendum includes changes to the following:

**CLARIFICATIONS TO SPECIFICATION:**

1. Update to specification 03 3000 3.13 C & D Concrete Finishes (See attached).

**ADDITION TO SPECIFICATION:**

1. Section 32 3136 Security Gates and Barriers added.

**ADDITION TO ARCHITECTURAL:**

1. ASD 10- Floor plan highlighting where the tile locations and concrete finishes referenced in spec and new Alternate detail on ASD 11- Thick-Set application
2. Addition of Thick-Set floor tile detail (ASD 11) per Tile Council of North America for Pricing Alternate at Non-slopping tile floor locations.

Please note that the FLUID-APPLIED WATERPROOFING membrane specified also serves as crack isolation or cleavage membrane, as indicated in the specification section. The same material should be used at all of the Tile setting methods issued by SDA as any of the membrane types noted in the installation methods.

END OF ADDENDUM

## PLAN- LEGEND



SLAB ON GRADE- UNFINISHED SLAB TO BE BROOM FINISHED (FLAT & LEVEL BUT NOT FINISHED FOR EXPOSED OR FLOOR FINISH TREATMENT). SEE REVISED SPEC SECTION ATTACHED.



EXTENT OF FLOOR TILE, SLOPE TO DRAIN, IN THICK SET MORTAR BED. REFER TO ASI #1.



EXTENT OF NONE-SLOPING FLOOR TILE TO BE IN THIN SET MORTAR BED. CONCRETE FLOOR FINISH REVISED SPEC SECTION ATTACHED- 3.13 C.

ALTERNATE: TO BE IN THICK SET MORTAR BED. SEE ASD 11 FOR DETAIL.



NON-HATCHED FLOOR AREA (INTERIOR ONLY) TO BE SAME CONCRETE FINISH AS SPEC SECTION ATTACHED 3.13 C. TO RECEIVE FLOOR FINISH PER SHEET A131.



SUPPLEMENTAL DRAWING  
SCOPE FOR THIN SET TILE  
LOCATIONS

SCALE: 1" = 20'-0"

METROPOLITAN LIBRARY

1332 METROPOLITAN PARKWAY, SOUTHWEST ATLANTA, GEORGIA,  
30310

Project No: 11165

DATE: 08/06/14

REFERENCED DRAWING:

A131

SHEET NO:

**ASD10**

ADD 08

FOR CONSTRUCTION

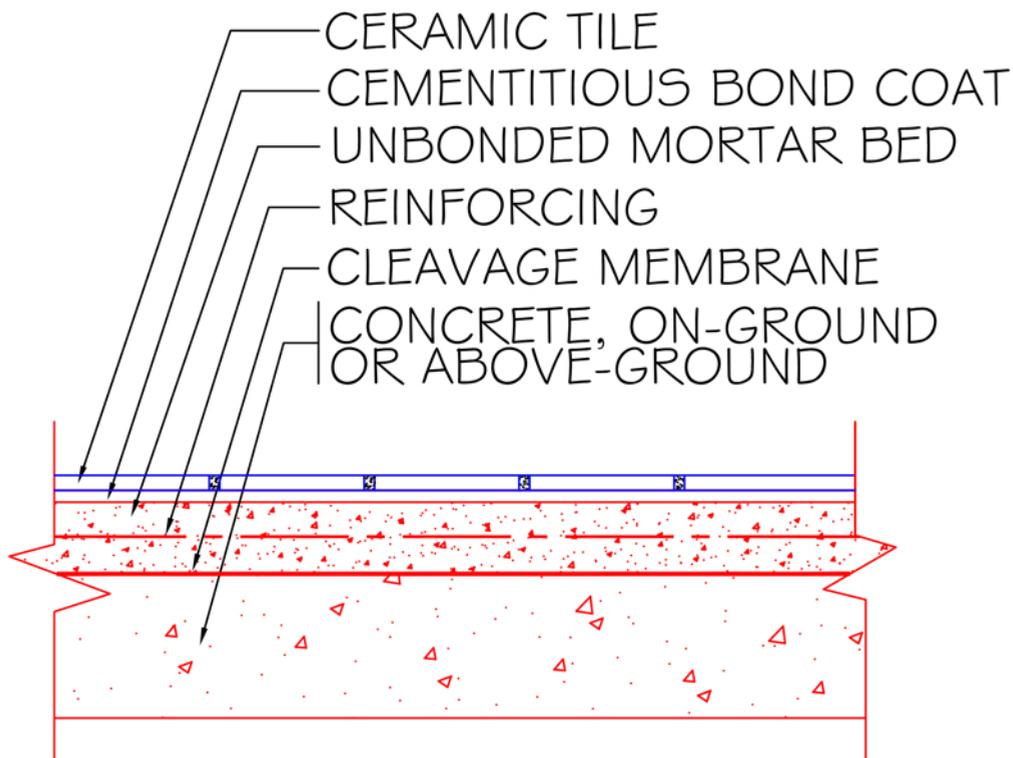
**SMITH  
DALIA**

ARCHITECTS, LLC  
621 NORTH AVENUE, NE  
SUITE C-140  
ATLANTA, GEORGIA 30308-2805

# INTERIOR FLOORS OVER CONCRETE

On-Ground or Above-Ground Concrete  
Unbonded Mortar Bed  
Ceramic Tile

F111-13



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**SMITH  
DALIA**  
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621 NORTH AVENUE, NE  
SUITE C-140  
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METROPOLITAN LIBRARY  
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PARKWAY, SOUTHWEST  
ATLANTA, GEORGIA, 30310

Supplemental Drawing  
**NON-SLOPED FLOOR TILE  
THICK-SET DETAIL**  
Scale: N/A

Project No: 11165  
Date: 08/06/14  
Referenced Sheet:  
A131- FLOOR TILE

Sheet No.:  
**ASD 11**  
ADD 08

FOR CONSTRUCTION

**SECTION 32 3136**

**SECURITY GATES AND BARRIERS\*\***

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Driveway Security gate.

**1.02 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination: Coordinate installation of units with size, location and installation of service utilities.

**1.03 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Provide detailed drawings showing:
  - 1. Layout and overall dimensions of each major element of the barrier equipment.
  - 2. Foundation and anchoring requirements of the barrier equipment.

**1.04 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a one year period after Date of Substantial Completion.
- C. Provide one year manufacturer warranty for materials and workmanship.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Security Gates and Barriers:
  - 1. Ameristar Perimeter Security, USA: [www.ameristarsecurity.com](http://www.ameristarsecurity.com).
  - 2. Duragate, Model:DGT-BS Steel Barrier Gate Square Tubular 10-1/2 - 16" Kit
  - 3. Substitutions: See Section 01 6000 - Product Requirements.

**2.02 SECURITY GATES AND BARRIERS**

- A. Security Gates and Barriers: Factory-fabricated, -assembled, and -tested devices, including all components for satisfactory operation; capable of resisting specified impact when installed in foundations indicated on drawings.
- B. Material: Hot-dipped galvanized steel with painted finish.
- C. Color: To be selected by Architect.

**2.03 NON-AUTOMATED BARRIERS**

- A. Horizontal Swing Gates: Manually operated, structural steel barrier swing gate; gate arm rotating in direction of travel; supported by high impact end posts; closed position secured by hasp and padlock.
  - 1. Width: 16 feet (4.87 m).
  - 2. Custom Painted Finish.
  - 3. Products:
    - a. Ameristar Perimeter Security, USA; Cityscape Gate: [www.ameristarsecurity.com](http://www.ameristarsecurity.com).
    - b. Duragate.Model:DGT-BS Steel Barrier Gate Square Tubular 10-1/2 - 16" Kit
    - c. Substitutions: See Section 01 6000 - Product Requirements.

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. Verification of Conditions:
  - 1. Verify location of existing utilities, grades and conditions of substrate.

**3.02 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.

**END OF SECTION**

**SECTION 03 3000**

**CAST-IN-PLACE CONCRETE**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Section includes cast-in-place concrete work indicated in the Contract Documents or otherwise required for proper completion of the work.

**1.02 RELATED SECTIONS**

- A. Division 1 Section "Testing Laboratory Services".
- B. Division 3 Section "Concrete Forming".
- C. Division 3 Section "Concrete Reinforcement".
- D. Division 5 Section "Structural Steel Framing".
- E. Division 9 - Flooring

**1.03 REFERENCES**

- A. ACI 207.1R - Mass Concrete
- B. ACI 211.1- Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete.
- C. ACI 214 - Recommended Practice for Evaluation of Strength Test Results of Concrete.
- D. ACI 224.3R – Joints in Concrete Construction.
- E. ACI 233R – Ground Granulated Blast-Furnace Slag as a Cementitious Constituent in Concrete.
- F. ACI 301 - Specifications for Structural Concrete for Buildings.
- G. ACI 302.1 - Guide for Concrete Floor and Slab Construction.
- H. ACI 304 - Guide for Measuring, Mixing, Transporting and Placing Concrete.
- I. ACI 305 - Hot Weather Concreting.
- J. ACI 306 - Cold Weather Concreting.
- K. ACI 308 - Standard Practice for Curing Concrete.
- L. ACI 309 - Guide for Consolidation of Concrete.
- M. ACI 318 - Building Code Requirements for Structural Concrete.

- N. ASTM C31 - Standard Practice for Making and Curing Concrete Test Specimens in the Field.
- O. ASTM C33 - Standard Specification for Concrete Aggregates.
- P. ASTM C39 - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
- Q. ASTM C94 - Standard Specification for Ready-Mixed Concrete.
- R. ASTM C138 - Standard Test Method for Unit Weight, Yield, and Air Content (Gravimetric) of Concrete.
- S. ASTM C143 - Standard Test Method for Slump of Hydraulic Cement Concrete.
- T. ASTM C150 - Standard Specification for Portland Cement.
- U. ASTM C172 - Standard Practice for Sampling Freshly Mixed Concrete.
- V. ASTM C173 - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.
- W. ASTM C230 - Standard Specification for Flow Table or Use in Tests of Hydraulic Cement.
- X. ASTM C260 - Standard Specification for Air-Entraining Admixtures for Concrete.
- Y. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
- Z. ASTM C330 - Standard Specification for Lightweight Aggregates for Structural Concrete.
- AA. ASTM C494 - Standard Specification for Chemical Admixtures for Concrete.
- BB. ASTM C495 - Standard Test Method for Compressive Strength of Lightweight Insulating Concrete.
- CC. ASTM C567 - Standard Test Method for Unit Weight of Structural Lightweight Concrete.
- DD. ASTM C618 - Standard Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete.
- EE. ASTM E1155 - Standard Test Method for Determining Floor Flatness and Levelness Using the F-Number System.

#### **1.04 NOTICE**

- A. Notify Architect/Structural Engineer and Structural Testing/Inspection Agency not less than 72 hours prior to placing concrete.

#### **1.05 QUALITY ASSURANCE**

- A. Structural Testing/Inspection Agency shall perform the following quality related items:
  - 1. Examine concrete in truck to verify that concrete appears properly mixed.

2. Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments.
3. Mold four specimens per set for compressive strength testing; one set for each 75 cubic yards of each mix design placed in any one day. For each set molded, record:
  - a. Slump
  - b. Air content
  - c. Unit weight
  - d. Temperature, ambient and concrete
  - e. Location of placement
  - f. Any pertinent information, such as addition of water, addition of admixtures, etc.Perform one 7-day and two 28-day compressive strength tests. (Use one as a spare to be broken as directed by the Structural Engineer if compressive strengths do not appear adequate.)

- B. The ready-mixed concrete plant shall be certified for conformance with the requirements of the National Ready Mix Concrete Association.

#### **1.06 CONCRETE MIX DESIGN**

- A. Establish concrete mix design proportions in accordance with ACI 318, Chapter 5.
- B. Submit concrete mix designs. Include the following:
  1. Type and quantities of materials.
  2. Slump.
  3. Air content.
  4. Fresh unit weight.
  5. Aggregates sieve analysis.
  6. Design compressive strength.
  7. Location of placement in structure.
  8. Method of placement.
  9. Method of curing.
  10. Seven-day and 28-day compressive strengths.
- C. Concrete supplier shall submit certifications that the materials used meet applicable ASTM Specifications. Mix designs not conforming to the above will be rejected.

#### **1.07 SLUMP**

- A. Design concrete with a maximum slump of five inches.
- B. If a slump greater than five inches is desired it shall be achieved with a high-range water reducer. Design the concrete mix with a high range water reducer slump of two and one-half inches plus or minus one and one-half inches. The maximum slump after high-range water reducers are added shall be eight inches.

#### **1.08 FRESH UNIT WEIGHT**

- A. Normal weight concrete shall have a fresh unit weight of 140 to 152 pcf.
- B. Semi-Light weight concrete shall have a fresh unit weight of 120 to 125 pcf.

### 1.09 AIR CONTENT

- A. For normal weight concrete, no entrained air content is required in concrete placed in the foundation, or for slabs and columns with interior exposure.
- B. For normal weight concrete, entrained air content shall be five percent plus or minus one and one-half percent, unless specified otherwise.
- C. For normal weight concrete with required compressive strength equal to or greater than 5000 psi, entrained air content shall be three percent plus or minus one percent.

### 1.10 WATER/CEMENT RATIO

- A. Concrete elements shall have a maximum water cement ratio of the following, unless noted otherwise.

<u>Compressive Strength</u>	<u>W/C</u>
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3000 psi	0.55 UNO
4000 psi	0.50 UNO

## PART 2 PRODUCTS

### 2.01 MATERIALS

- A. Materials designated by specific manufacturer's trade names are approved, subject to compliance with the quality and performance indicated by the manufacturer. Instructions and specifications, published by the manufacturer of such materials are included in and are a part of these specifications. Upon request, provide certification from manufacturer or supplier that materials designated by reference to ASTM and ACI standards meet the requirements of these standards.

### 2.02 CONCRETE STRENGTH

- A. Provide concrete strengths indicated on the Structural Drawings.

### 2.03 CEMENT

- A. Portland cement shall conform to ASTM C150, Type I, unless noted otherwise. Use one brand only.

### 2.04 AGGREGATE

- A. Fine aggregate shall conform to ASTM C33.
- B. Coarse aggregate of gravel or crushed stone shall conform to ASTM C33. Size coarse aggregate in accordance with ACI 318.

### 2.05 WATER

- A. Water shall be potable and free of deleterious substances in accordance with ACI 318.

### 2.06 AIR ENTRAINING AGENT

- A. Air entraining agent shall conform to ASTM C260.

#### **2.07 WATER REDUCER**

- A. Water reducing agent shall conform to ASTM C494.

#### **2.08 HIGH-RANGE WATER REDUCER**

- A. High-range water reducers (superplasticizers) shall conform to ASTM C494.

#### **2.09 CHLORIDE**

- A. Use no chlorides of any form in concrete.

#### **2.10 CURING COMPOUND**

- A. An acrylic cure compound with a minimum solid content of 20 percent may be used at the Contractor's option in accordance with ASTM C309, and in compliance with these specifications.

#### **2.11 FLY ASH**

- A. Fly ash shall be Class F fly ash with a loss on ignition of less than five percent or Class C fly ash with a loss on ignition of less than one percent in accordance with ASTM C618.
- B. Maximum fly ash content shall be limited to 20% of the total cementitious material weight.

#### **2.12 GROUND GRANULATED BLAST-FURNACE SLAG (GGBFS).**

- A. Ground Granulated Blast-Furnace Slag (GGBFS) shall conform to ACI 233.
- B. Maximum GGBFS content shall be limited to 50% of the total cementitious material weight. Maximum total combined GGBFS plus Flyash shall be limited to 50% of the total cementitious material weight.

#### **2.13 ACCELERATORS**

- A. Non-chloride accelerators shall conform to ASTM C494.

#### **2.14 RETARDERS**

- A. Retarders shall conform to ASTM C494.

### **PART 3 EXECUTION**

#### **3.01 HIGH-RANGE WATER REDUCERS**

- A. High-range water reducers are to be added at dosage recommended by the manufacturer. The slump of the concrete shall be one to four inches at the time the high-range water reducers are added. Do not permit fresh concrete containing superplasticizers to come in contact with fresh concrete not containing superplasticizers.

Metropolitan Library  
Atlanta-Fulton Public Library System  
July 14, 2014

03 3000  
CAST-IN-PLACE CONCRETE  
CONSTRUCTION DOCUMENTS

### **3.02 ADDITION OF WATER AT JOB SITE**

- A. Water may be added to the batch only if neither the maximum permissible water/cement ratio nor the maximum slump is exceeded.

### **3.03 PLACEMENT OF CONCRETE**

- A. Deposit concrete as near as practical to final position. Maximum free fall shall be six feet.
- B. Do no flowing of concrete with vibrators.
- C. Place floors and slabs in accordance with ACI 302.
- D. Do not use aluminum equipment in placing and finishing concrete.
- E. Place thickened slabs for partitions integral with floor slabs.
- F. Prepare place of deposit, mix, convey, place, and cure concrete in accordance with ACI 301, ACI 304, and ACI 318. Wet forms before placing concrete.
- G. Place concrete on properly prepared granular subbase. Vapor barrier is installed above granular subgrade.

### **3.04 TIME LIMIT**

- A. Deposit concrete within one and one-half hours after batching.

### **3.05 VIBRATION**

- A. Consolidate concrete in accordance with ACI 301 and ACI 309.

### **3.06 CURING**

- A. Begin curing procedures immediately following the commencement of the finishing operation.
- B. Cure concrete in accordance with ACI 308. Keep the concrete surface moist. If an acrylic curing compound is used, apply in accordance with manufacturer's recommendations to surfaces of concrete not protected for five days by formwork. Do not use curing compounds in areas to receive material that does not adhere to concrete cured with a curing compound unless the curing compound is water soluble.
- C. Moist cure concrete elements within aggressive environments as follows:
  - 1. Place burlap and polyethylene curing blankets on the surface and keep them continuously moist with sprinklers for seven days.
  - 2. In hot weather or wind conditions, prevent rapid mix water evaporation and possible plastic shrinkage cracking by using evaporation retarders or fog sprays.
  - 3. In cold weather, follow recommended procedures in ACI 306 and ACI 308.
  - 4. After the curing blankets are removed, if a sealer is not specified to be applied, spray on a two-coat application of liquid membrane curing compound. If a sealer is to be applied a curing compound is not required.

### **3.07 SLAB ON GRADE**

- A. Concrete used in slabs on grade shall exhibit ultimate shrinkage strain no more than 0.05 percent. If tests were required to meet this criteria, concrete shrinkage tests shall be performed in accordance with ASTM C 157 on specimens moist-cured for one day. Tests shall be performed by an ACI certified technician in an ACI certified laboratory.

### **3.08 ENVIRONMENTAL PROVISIONS**

- A. Perform cold weather concreting in accordance with ACI 306.
- B. Perform hot weather concreting in accordance with ACI 305.
- C. Protect concrete from drying and excessive temperature for the first seven days.
- D. Protect fresh concrete from wind.

### **3.09 CONTRACTION JOINTS**

- A. Obtain Architect/Structural Engineer's approval for location of contraction joints.
- B. Do not place contraction joints in framed floors or composite slabs.
- C. Place contraction joints in slabs-on-grade with a maximum spacing of approximately 18' to form a regular grid. The long dimension of the grid shall not exceed 1.5 times the short dimension of the grid. Contraction joints may be saw cut if cut within 8 hours after placement of concrete. Saw cuts shall be a depth equal to one-fourth the slab thickness by one-eighth inch wide. Alternately, in areas to receive carpeting or wood flooring contraction joints may be provided by preformed plastic strip inserts.

### **3.10 CUTTING CONCRETE**

- A. Obtain Architect/Structural Engineer's written approval prior to cutting concrete for installation of other work.

### **3.11 PATCHWORK AND REPAIRS**

- A. Notify Architect/Structural Engineer of any defective areas in concrete to be patched or repaired. Repair and patch defective areas with non-shrink grout. Cut out defective areas over two inches in diameter to solid concrete, but not less than a depth of one inch. Make edges of cuts perpendicular to the concrete surface.

### **3.12 DEFICIENT CONCRETE COMPRESSIVE STRENGTH**

- A. In the event that concrete tests indicate a 3-day, 7-day, or 28-day strength below that which was expected or specified, the Contractor with the agreement of the Architect/Engineer shall have the mix adjusted so that subsequent concrete will comply with the minimum strength requirements. The Owner may require core specimens to be taken and tested, at the Contractor's expense. If core tests fall below minimum requirements, as determined by the Architect/Engineer, the concrete in place will be deemed to be defective. This concrete shall be removed and replaced or strengthened in a manner acceptable to the Owner and Architect/ Engineer, at the Contractor's expense.

Any demolition or repair of other materials or systems as a result of repair or replacement of defective concrete shall be at the Contractor's expense.

### 3.13 CONCRETE FINISHES

- A. Finish concrete in accordance with ACI 301, ACI 117, and ACI 302.1.
- B. Finish concrete slabs to flatness and levelness tolerances which correspond to  $F_F 25/F_L 20$  minimum overall for composite of all measured values per placement and  $F_F 17/F_L 15$  minimum for any individual floor section.
- C. For concrete slabs to receive thinset tile flooring, finish to flatness and levelness tolerances which correspond to  $F_F 60/F_L 30$  minimum overall for composite of all measured values per placement and  $F_F 50/F_L 20$  minimum for any individual floor section.
- D. For concrete slabs below raised access flooring, finish to flatness and levelness tolerances which correspond to  $F_F 20/F_L 15$  minimum overall for composite of all measured values per placement and  $F_F 15/F_L 15$  minimum for any individual floor section.
- E. For concrete slabs to receive owner furnished equipment, finish to floor flatness and floor levelness tolerances stated in the equipment manufacturer's recommended guidelines.
- F. For shored construction,  $F_L$  values do not apply if slab is tested after shoring is removed.
- G. For unshored construction,  $F_L$  does not apply.
- H. Slabs which do not meet the flatness and levelness criteria shall be repaired or replaced.

Addendum No. 8

**END OF SECTION**