



ADDENDUM NO. 5

23 April 2020

Appoquinimink School District  
Everett Meredith Middle School  
Bid Package 'A'  
Page 1

**The bid due date has been extended.**

**Bids will be received until 2:00 p.m. on Friday, 1 May 2020.**

**The location for receipt of bids is Room 148 of the Appoquinimink School District, Marion Proffitt Training Center, 118 South Sixth Street, Odessa, Delaware 19730**

In accordance with the active Public Health State of Emergency related to the novel coronavirus ("COVID-19"), and Social Distancing recommendations of the Delaware Department of Health and Social Services, the Appoquinimink School District will be proceeding with the following logistics plan for managing bid receipts and the subsequent public bid opening:

- 1) Physical copies of bids will be received at the Appoquinimink School District, Marion Proffitt Training Center, 118 South Sixth Street, Odessa, Delaware 19730. Bids may be hand delivered or mailed/shipped. Electronic bids will not be accepted. Bidder assumes full responsibility for timely delivery at location designated for receipt of bids. Any bids received after the stated time will be returned unopened.
- 2) School district personnel will be available to receive the bids on Tuesday, 28 April 2020, from 8am until 2pm local time. Signs will be posted at the main entrance directing bidders to the appropriate drop off location.
- 3) A public bid opening will be held immediately following the 2pm submission deadline, in the Board Room of the Marion Proffitt Training Center. Although the Appoquinimink School District is not prohibiting public presence at the bid opening, for the safety of the general public the State of Delaware guidelines for social distancing and public gatherings will be enforced. In an effort to reinforce recommended social distancing, the Appoquinimink School District strongly encourages attendees attend the bid opening via YouTube live stream at the following link:
  - a. Full link:  
[https://www.youtube.com/channel/UC7nnAUtcNOgyimmVOCCNiaSg/videos?view\\_as=public](https://www.youtube.com/channel/UC7nnAUtcNOgyimmVOCCNiaSg/videos?view_as=public)
  - b. Abbreviated Link:  
[bit.ly/appoyoutube](https://bit.ly/appoyoutube)
  - c. Alternative Conference Call Line:  
Number: +1 (646) 558 8656  
Access Code: 333 990 692
  - d. A recording of the bid opening will remain available for future access at the link above.





**Note: Bid Documents obtained through the State of Delaware Government Support Services Website (bids.delaware.gov), are not for bidding purposes. Bid Documents may be viewed and downloaded at EDiS' FTP site. To obtain access to the FTP site, please submit your request via email to Jackie McKee at [jmckee@ediscompany.com](mailto:jmckee@ediscompany.com).**

NOTICE: Attach this addendum to the project manual for this project. It modifies and becomes a part of the contract documents. Work or materials not specifically mentioned herein are to be described in the main body of the specifications and as shown on the drawings. Bidders shall acknowledge receipt of this addendum on the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

Whenever this Addendum modifies a portion of the Project Manual added information is shown as **Bold** and deleted information is shown as ~~striketrough~~.

The contract documents for the above referenced project, dated February 21, 2020 are amended as follows:

**GENERAL CLARIFICATIONS:**

1. In response to questions regarding potential PCB's in the elevator hydraulic fluid, Environmental Testing, Inc. sampled the fluid and conducted testing. ETI found that no PCB' were present. See the attached report dated April 17, 2020.
2. Attached are photos of the mechanical room on the first floor. This space was not accessible during the walk through.
3. Drawing M-603 was shown as being replaced in Addendum No. 4. This was a typo. See below for louver model number change on this drawing.

**QUESTIONS AND ANSWERS:**

1. See attached responses to RFI's – 9, 11, 12, 20, 25, 26, 28, 31, 36, 39, 40, 44, 50, 51, 54, 55, 56, 58, 60, 61, 62, 63, 64, 65, 72, and 80.

**MODIFICATIONS TO SPECIFICATIONS:**

1. **SECTION 011100 – SUMMARY OF WORK;** make the following pen and ink changes:
  - a. CONTRACT A-01 – DEMOLITION
    1. DELETE the first sentence of scope item no. 3 and REPLACE with the following:

“3. Demolish all structures and buildings (including 1-story maint. garage, chiller, chiller, enclosure and sheds) and their appertains construction to new subgrade grade level.”
    2. ADD the following sentence to the end of scope item no. 7:

“The existing pad mounted transformers currently serving the building will be removed by the Town of Middletown.”
    3. ADD the following new scope items after scope item no. 43 on page 011100-10:





"44. In addition to the insurance specified in Section 006216, this contractor will provide Pollution Insurance, with limits of \$2,000,000 per occurrence and \$2,000,000 aggregate.

45. The Masonry Contractor is responsible to salvage and store on-site all materials listed on Demolition Sheet Notes 2 and 7 and Alternates 9, 10 and 11. The Demolition Contractor will carefully demolish and stockpile on site the bricks to be salvaged as noted in Demolition Sheet Note 2."

b. CONTRACT A-02 SITEWORK

1. ADD the following sentence to the end of scope item 12. G:

"The existing pad mounted transformers currently serving the building will be removed by the Town of Middletown. The Sitework Contractor is responsible for removing the conduits and conductors from the transformer back to the utility poles. Coordination with the Town of Middletown is required"

2. ADD the following new scope items after scope item no. 64 on page 011100-17:

"65. Provide louvered gates at the mechanical yard.

66. In addition to the insurance specified in Section 006216, this contractor will provide Pollution Insurance, with limits of \$2,000,000 per occurrence and \$2,000,000 aggregate."

c. CONTRACT A-03 CONCRETE

1. DELETE scope item no. 16 and REPLACE with the following:

"16. Provide waterproofing, combo protection/drainage board, and blind-side sheet waterproofing at concrete footings, slabs, and foundation walls at the elevator pit as shown on Sheet A-434. Continuation of the sheet waterproofing on the elevator shaft CMU walls to be provided by Contract A-08 : Roofing & Waterproofing. All other sheet waterproofing outside of the elevator pit to be provided by Contract A-08."

d. CONTRACT A-05 STRUCTURAL STEEL & MISC METALS

1. DELETE scope item no. 10. There are no roof screens on the project.
2. DELETE scope item no. 11. The louvers are being provided by Contract A-28 Mechanical.
3. DELETE scope item no. 15 and REPLACE with the following:

"15. Provide restroom sink supports as shown on A426."

e. CONTRACT A-06 CARPENTRY & GENERAL WORKS

1. DELETE scope item no. 10. The digital keypads are provided by Contract A-32 Special Systems.





2. DELETE scope item no. 19. The wardrobes are part of Contract A-12 Casework and Millwork.
  3. DELETE scope item no. 23. The signage will be bid in a future bid package.
  4. DELETE scope item no. 26. There is no loading dock equipment in the project.
  5. ADD the following to the end of scope item no. 32:  
  
"including the stainless steel panels beneath each hand dryer."
  6. DELETE scope item no. 37. There are no postal specialties in the project.
  7. DELETE scope item no. 40 and REPLACE with the following:  
  
"40. Provide GFRC decorative cornices. Provide caulking of GFRC cornices to adjoining materials. Provide primers, bond breakers, and joint backers. Clean, prime, and prepare surfaces before application of caulks and sealants in accordance with specifications and manufacturer's recommendations."
  8. DELETE scope item no. 41. There are no metal column covers in the project.
  9. DELETE scope item no. 42. There are no exterior PVC railings in the project.
  10. DELETE scope item no. 48. The louvers are being provided by Contract A-28 Mechanical.
  11. ADD the following new scope items after scope item no. 62 on page 011100-33:  
  
"63. Provide 3 Knox boxes to be installed at the Main entrance, Gym entrance, and Cafeteria Entrance.
- f. CONTRACT A-07 METAL STUDS & DRYWALL
1. DELETE scope item no. 13 and REPLACE with the following:  
  
"13. Provide GWB acoustic reflector at the front of the stage"
  2. ADD the following new scope item after scope item no. 41 on page 011100-37:  
  
"42. Provide Adjustable Partition Closure: Gordon Inc. Window Mate Series 40 Plus, as shown in Detail A6/A631."
- g. CONTRACT A-08 ROOFING & WATERPROOFING
1. ADD the following to the end of scope item no. 5:





“Waterproofing, combo protection/drainage board, and blind-side sheet waterproofing at concrete footings, slabs, and foundation walls at the elevator pit as shown on Sheet A-434 to be provided by Contract A-03. This Contract A-08 is to provide continuation of the sheet waterproofing on the elevator shaft CMU walls and overlapped with concrete waterproofing as required by manufacturer.”

2. ADD the following to the end of scope item no. 9:

“including at metal wall panel locations. Coordinate sizing and installation requirements with Contract A-09.

3. ADD the following to the end of scope item no. 10:

“including associated roof curbs.”

4. DELETE scope item no. 16 and REPLACE with the following:

“16. Provide flashing and associated work at Roof curbs provided by others to maintain watertightness and roof warranty.”

5. ADD the following to the end of scope item no. 17:

“including associated roof curbs.”

6. DELETE scope item no. 20. There are no skylights in this project.

h. CONTRACT A-10 DOORS, FRAMES, AND HARDWARE SUPPLY

1. DELETE scope item no. 6. The digital keypads are provided by Contract A-32 Special Systems.

i. CONTRACT A-11 GLASS AND GLAZING

1. DELETE scope item no. 13 and REPLACE with the following:

“13. Provide sealants integral to windows, storefronts, and curtain wall systems. Provide sealants between the materials supplied under this contract and the adjacent surfaces. This includes interior and exterior of the building. The sealants must be smoke, fire or sound rated depending on the adjacent wall construction.”

2. ADD the following new scope item after scope item no. 28 on page 011100-47:

“29. Provide safety and security films where indicated.”

j. CONTRACT A-12 CASEWORK AND MILLWORK

1. DELETE scope item no. 6. There is no solid surface base.





2. DELETE scope item no. 8. There are no woo stair risers.
- k. CONTRACT A-14 ACOUSTICAL CEILINGS AND WALL PANELS
1. ADD the following to the end of scope item no. 6:  
  
“AWP-1, AWP-2, AWP-3, and AWP-4.”
  2. ADD the following new scope item after scope item no. 18 on page 011100-53:  
  
“19. Provide acoustically transparent fabric speaker panels. See note 4 on A412.1.”
- l. CONTRACT A-15 CARPET & VCT
1. DELETE scope item no. 5 and REPLACE with the following:  
  
“5. Provide 4” rubber base and Millwork Rubber Base as detailed on the finish schedule and plans. This includes the toe kicks at casework, even when the casework is in rooms with fluid applied resinous floors.”
- m. CONTRACT A-18 FLUID-APPLIED FLOORING
1. ADD the following to the end of scope item no. 1:  
  
“RSB-1 and RSB-2.”
- n. CONTRACT NO. A-19 WOOD & ATHLETIC FLOORING
1. ADD the following to the end of scope item no. 2:  
  
“WDF-1 and WDF-2.”
  2. ADD the following to the end of scope item no. 5:  
  
“vinyl vented base VVB-1 and steel angle base SB-1.”
- o. CONTRACT A-20 GYMNASIUM EQUIPMENT AND BLEACHERS
1. DELETE scope item no. 8. There are no wrestling mats in the project.
  2. DELETE scope item no. 10. There are no batting cages or floor cover in the project.
- p. CONTRACT A-26 FIRE PROTECTION
1. ADD the following new scope item after scope item no. 23 on page 011100-78  
  
“24. Prior to demolition, ALL fire protection systems to be demolished will be disconnected, drained and safed-off at the service entrance into the building by the Fire Protection Contractor. This Contractor shall be responsible for coordination with the Demolition Contractor prior to and during demolition activity.”





## q. CONTRACT A-27 PLUMBING

1. ADD the following new scope item after scope item no. 34 on page 011100-81:

“35. Prior to demolition, ALL plumbing and piping systems to be demolished will be disconnected, drained and safed-off at the service entrance into the building by the Plumbing Contractor. This Contractor shall be responsible for coordination with the Demolition Contractor prior to and during demolition activity.”

## r. CONTRACT A-30 ELECTRICAL

1. DELETE scope item no. 16. The Town of Middletown will be providing the primary service and new transformer to the building.

2. ADD the following new scope item after scope item no. 51 on page 011100-92:

“52. Install the double sided 3’ x 5’ digital sign, furnished by the owner, on the masonry monument sign.”

**4. SECTION 013523 – SAFETY PROGRAM**

- a. INSERT at the end of Section 013523, the Daily Excavation Permit form.

**5. SECTION 013700 – BIM COORDINATION**

- a. INSERT Section 013700 BIM Coordination, dated 1 April 2020, attached to this Addendum, into the Project Manual

**6. SECTION 230600 – AIR DISTRIBUTION & ACCESSORIES – HVAC**

- a. Page 23 0230-3, Paragraph 2.2: INSERT the following:

**“OR**

***D. Outdoor Installation:***

1. *On all outdoor square and rectangular ductwork, provide a minimum 0.032 inch thick plain stucco embossed aluminum jacket over 2 inch thick rigid fiberglass board insulation as described in part B of this article.*
  - a. *32-mil aluminum roll jacketing, ASTM B2089, with 2.5 mil poly/surlyn backing, plain or white acrylic coated, as made by Childers, RPR, or Pabco.*
2. *Provide duct roof pitch-supports at all flanges, stiffeners, insulation joints along the top of the horizontal ducts with 24 inch maximum spacing, with 12 degree pitch and anti-sweat coating.*
3. *Provide rolled metal jacketing with all seams overlapping 2 inches in a watershed fashion.*
4. *Apply the roll metal jacketing from 48 inch wide roll stock lengthwise with the duct to minimize the number of seams for ducts that measure 44 inches and less on any side including insulation.*
5. *Machine break the metal jacketing for sharp corners; on large ducts, cross break the jacket to eliminate wrinkles.*





6. *Secure seams with stainless steel sheet metal screws 4 inches on center. On horizontal ducts, seal seams on duct horizontal surfaces and on vertical ducts seal the vertical seams with continuous bead of caulking sealant.*
  - a. *sealer made by Fosters Foamseal 30-45, Childers CP-70, Epolux Cadaseal 745.*
7. *Flash metal jacket with same material applied to the duct where insulation terminates at bolted flanges. Allow for bolt removal where access or disassembly is required.*
8. *Manufacturer: Fabrite as made by County Insulation Company, New Castle, Delaware.”*

## **MODIFICATIONS TO DRAWINGS:**

### **DRAWINGS – VOLUME 1:**

1. **DRAWING S-004:** Delete Drawing S-004, and replace with Drawing S-004, Revision 2, dated 04/22/2020, attached to this Addendum.
2. **DRAWING S-111:** Delete Drawing S-111, and replace with Drawing S-111, Revision 2, dated 04/22/2020, attached to this Addendum.
3. **DRAWING S-115:** Delete Drawing S-115, and replace with Drawing S-115, Revision 2, dated 04/22/2020, attached to this Addendum.
4. **DRAWING S-131:** Delete Drawing S-131, and replace with Drawing S-131, Revision 2, dated 04/22/2020, attached to this Addendum.
5. **DRAWING S-135:** Delete Drawing S-135, and replace with Drawing S-135, Revision 2, dated 04/22/2020, attached to this Addendum.
6. **DRAWING S-501:** Delete Drawing S-501, and replace with Drawing S-501, Revision 2, dated 04/22/2020, attached to this Addendum.
7. **DRAWING S-505:** Delete Drawing S-505, and replace with Drawing S-505, Revision 2, dated 04/22/2020, attached to this Addendum.
8. **DRAWING S-515:** Delete Drawing S-515, and replace with Drawing S-515, Revision 2, dated 04/22/2020, attached to this Addendum.
9. **DRAWING A-312:** Delete Drawing A-312, and replace with Drawing A-312, Revision 2, dated 04/22/2020, attached to this Addendum.
10. **DRAWING A-412:** Delete Drawing A-412, and replace with Drawing A-412, Revision 1, dated 04/22/2020, attached to this Addendum.
11. **DRAWING A-427:** Delete Drawing A-427, and replace with Drawing A-427, Revision 2, dated 04/22/2020, attached to this Addendum.
12. **DRAWING A-514:** Delete Drawing A-514, and replace with Drawing A-514, Revision 2, dated 04/22/2020, attached to this Addendum.

### **DRAWINGS – VOLUME 2:**

1. **DRAWING I-001:** Delete Drawing I-001, and replace with Drawing I-001, Revision 2, dated 04/22/2020, attached to this Addendum.
2. **DRAWING I-115:** Delete Drawing I-115, and replace with Drawing I-115, Revision 2, dated 04/22/2020, attached to this Addendum.
3. **DRAWING I-401:** Delete Drawing I-401, and replace with Drawing I-401, Revision 2, dated 04/22/2020, attached to this Addendum.
4. **DRAWING I-601:** Delete Drawing I-601, and replace with Drawing I-601, Revision 3, dated 04/22/2020, attached to this Addendum.
5. **DRAWING E-131:** Delete Drawing E-131, and replace with Drawing E-131, Revision 1, dated 04/24/2020, attached to this Addendum:
  - a. ADD receptacles for goggle cabinets





6. DRAWING E-135: Delete Drawing E-135, and replace with Drawing E-135, Revision 2, dated 04/24/2020, attached to this Addendum:
  - a. REVISE General Sheet Note No. 7.
  - b. ADD panel "PB".
7. DRAWING E-181: Delete Drawing E-181, and replace with Drawing E-181, Revision 1, dated 04/24/2020, attached to this Addendum:
  - a. REVISE schedule note no. 1.
8. DRAWING E-502: Delete Drawing E-502, and replace with Drawing E-502, Revision 2, dated 04/24/2020, attached to this Addendum:
  - a. ADD details.
9. DRAWING E-601: Delete Drawing E-601, and replace with Drawing E-601, Revision 2, dated 04/24/2020, attached to this Addendum:
  - a. REVISE Light Fixture Schedule.
10. DRAWING E-602: Delete Drawing E-602, and replace with Drawing E-602, Revision 1, dated 04/24/2020, attached to this Addendum:
  - a. ADD cord reel to legend.
  - b. REVISE Mechanical Equipment Electrical Requirements note no. 2.
11. DRAWING E-603: Delete Drawing E-603, and replace with Drawing E-603, Revision 1, dated 04/22/2020, attached to this Addendum:
  - a. ADD A.I.C. to panel schedules.
12. DRAWING E-604: Delete Drawing E-604, and replace with Drawing E-604, Revision 1, dated 04/22/2020, attached to this Addendum:
  - a. ADD A.I.C. to panel schedules.
13. DRAWING E-605: Delete Drawing E-605, and replace with Drawing E-605, Revision 1, dated 04/22/2020, attached to this Addendum:
  - a. ADD A.I.C. to panel schedules.
14. DRAWING M-603:
  - a. LOUVER SCHEDULE – REVISE model number to 'EFD-637'.
15. DRAWING P-601: Delete Drawing P-601, and replace with Drawing P-601, Revision 2, dated 04/22/2020, attached to this Addendum:
  - a. MODIFY schedule for Lavatory.
16. DRAWING K-102A: Delete Drawing K-102A, and replace with Drawing K-102A, Revision 4, dated 04/17/2020, attached to this Addendum.

### LIST OF ATTACHMENTS:

### GENERAL INFORMATION

Environmental Testing, Inc. PCB Test Report dated April 17, 2020.  
First Floor Mechanical Room Pictures.

### RFI'S

RFI's – 9, 11, 12, 20, 25, 26, 28, 31, 36, 39, 40, 44, 50, 51, 54, 55, 56, 58, 60, 61, 62, 63, 64, 65, 72, and 80.

### SPECIFICATIONS:

SECTION 013700 – BIM COORDINATION

SECTION 013523 – SAFETY PROGRAM: DAILY EXCAVATION PERMIT FORM

### DRAWINGS – VOLUME 1:

S-004 - PROJECT SCHEDULES





S-111 - FOUNDATION PLAN - AREA A  
S-115 - FOUNDATION PLAN - AREA E  
S-131 - ROOF FRAMING PLAN - AREA A  
S-132 - ROOF FRAMING PLAN - AREA B  
S-501 - TYPICAL FOUNDATION DETAILS  
S-505 - FOUNDATION SECTIONS  
S-515 - FRAMING SECTIONS

A-312 - BUILDING SECTIONS  
A-412 - AUDITORIUM INTERIOR ELEVATIONS  
A-427 - AUDITORIUM SEATING PLAN  
A-514 - EXTERIOR SECTION DETAILS

DRAWINGS – VOLUME 2:

I-001 - FINISH LEGEND AND NOTES  
I-115 - FIRST FLOOR FINISH PLAN - AREA 'E'  
I-401 - INTERIOR ELEVATIONS  
I-601 - FINISH SCHEDULE

E-131 - FIRST FLOOR POWER PLAN - AREA 'A'  
E-135 – FIRST FLOOR POWER PLAN - AREA 'E'  
E-181 - ENLARGED KITCHEN EQUIPMENT PLAN - POWER  
E-502 – DETAILS ELECTRICAL  
E-601 – SCHEDULES ELECTRICAL  
E-602 – SCHEDULES ELECTRICAL  
E-603 – PANEL SCHEDULES  
E-604 – PANEL SCHEDULES  
E-605 – PANEL SCHEDULES

P-601 - LEGENDS & SCHEDULES PLUMBING

K-102A - BUILDING CONDITION & VENT NOTES & DETAILS

**End of Addendum No. 5**





REQUEST FOR INFORMATION  
BID PACK A

TO: SETH HAMMONDS, ABHA PRE-BID RFI#: 009

FROM: ANDREW HICKEY, EDiS COMPANY DATE: 24 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: 123400 PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Mastercraft Woodworking Co., Inc. Date: 24 March 2020

We are interested in submitting a bid as a sub-contractor for this project. We request that you add our name to your list of acceptable bidders in Section 123400 Laminate Clad Casework . Attached please find copies of our current specification, list of references and a comparison sheet of one of the approved manufacturers.

- 1.) In addition to the enclosed information we would also like to point out the following.
  - a. You may be interested in knowing that our firm is Woman owned and we would be happy to send you our registration number.
  - b. The mileage from our factory is within the 500 mile Leeds requirement.
  
- 2.) We ask that if you approve us please respond to this email to enable us to obtain the proper bid documents in a timely manner. Thank you. Can the existing stone aggregate under the existing paving be reused for base under the new paving?

---

---

**RESPONSE:**

- 1.) Not approved.

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 011

FROM: ANDREW HICKEY, EDiS COMPANY DATE: 26 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: A-Del Date: 26 March 2020

- 1.) Is the Demolition Package to cover all demolition and clearing within LOD?
- 2.) If we are to backfill the disturbed area to what grade are we to use as final grade for the site contractor to take over?
- 3.) Who is responsible for E & S measures during demolition activities?
- 4.) Is more information available on the underground storage tank?

---

---

**RESPONSE:**

- 1.) Contract A-01 Demolition is responsible for demolition of the building, garage, chiller enclosure, and chiller. See revised A-01 scope item 3. Contract A-02 Sitework is responsible for the sitework demolition. See A-02 scope item 12.
- 2.) Backfill within the footprint of the demolished structures shall be brought to elevation 56.5'. See the response to RFI#5 issued with Addendum No 4.
- 3.) The Sitework Contractor is responsible for all E&S measures shown on the civil drawings. However, if there are additional E&S measures that may be required as a result of the building demolition, then that Demolition Contractor will be responsible for those E&S measures needed to control their activities
- 4.) The underground and aboveground tanks have been removed. However, the underground lines to the aboveground tank still need to be removed. The scope of work was revised in Addendum No. 2

Response By: EDiS Date: 22 April 20

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 012

FROM: ANDREW HICKEY, EDiS COMPANY DATE: 26 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Brandywine Contractors Date: 26 March 2020

- 1.) The carpentry scope item 10 says to furnish digital keypad for access control devices. Shouldn't this be provided by the special systems contract?
- 2.) The carpentry scope item 19 says to provide wardrobe and closet specialties. Can you tell us what this consists of? There is no spec.
- 3.) Can specs be provided for following: Fire Blanket Cabinets, Recessed entrance mats and frames, Postal specialties, Mirrors (framed and frameless), FRP paneling, Architectural metal column covers, Exterior PVC railings, Architectural louvers, Defibs and Cabinets, Folding Partitions, Dock Bumpers and Loading Dock Equipment, interior and exterior signage and plaques?

---

**RESPONSE:**

- 1.) The digital keypads will be provided by Contract A32 Special Systems
- 2.) The wardrobes are part of the Contract A-12 Casework and Millwork scope of work. There are no closet specialties. This A-06 scope item will be deleted from this contract.
- 3.) See Section 104400 for fire blankets and defibrillators and cabinets. See Section 124813 for entrance mats and frames. See Section 102600 for wall protection. There are no folding partitions in the project. There are no dock bumpers or loading dock equipment in the project. Signage and plaques will be issued in a future bid package.

Response By: EDiS Date: 22 April 20

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 020

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 30 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: EDiS Company

Date: 30 March 2020

- 1.) A-002 On exterior wall assemblies EW5, EW6, & EW7, there is intumescent coating to be applied to the spray insulation. Can you confirm why this coating is required on an exterior wall?
  - 2.) A-002 shows 1 roof type R-1. This roof type is not indicated anywhere on the Overall Roof Plan dwg A-131. There are some roofs where the steel is sloped and a continuous thickness of 5" insulation will be used (i.e. Areas A & B). There are other roofs where the steel is not sloped and the roof insulation needs to be built up to get the proper pitch (i.e over the stage). Can you provide different roof types to indicate the different conditions and label the areas on the Overall Roof Plan. E120
  - 3.) A-312 – Section D2. Can you provide a section at column lines E.11 and E.12 at the roof line. Section 1 on structural drawing S-519 shows a metal stud knee wall at the base of the metal wall panels. We need more detail on how this wall is to be flashed and the interface between the EPDM and the metal wall panels. The same detail is needed at column line E.19.
  - 4.) A-451 Details A4, B4, C4, D4, & E4 show different entrance plans. Can you provide the elevation above the first floor where each of these plans apply?
  - 5.) G-111 What is the difference between 1 or 2 hour fire walls versus 1 or 2 hour separations?
  - 6.) K-102A This drawing shows quarry tile over a 2" setting bed in the walk-ins. The finish drawing shows resinous flooring in the walk-ins. Which is correct? If the floor is resinous what material is required beneath the resinous material?
-





REQUEST FOR INFORMATION  
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 025

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 31 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Reed Associates

Date: 31 March 2020

- 1.) Elevations D6/A445, C1/A44, E3/A443, A1/A442, B2/A441, A6 B6 & C6/A403 all have solid surface tops but the solid surface wall protection is not noted on these elevations. Please confirm this is an omission and the solid surface wall protection is to be provided.
- 2.) Can you provide a section detail of the locations with solid surface wall protection? Is the idea to have a full height splash or have the wall protection along with a 4" backsplash as shown on the elevations?
- 3.) Confirm all work in enlarged plan D3/A404 is by the food service contract and there is no millwork/countertops that would be part of Contract A12
- 4.) Band 158 note #2 calls for plam countertops. Elevation E3/A443 calls for solid surface. Please clarify
- 5.) Learning Commons counters note #5 call for plam countertops. Elevation and sections call for solid surface. Please clarify
- 6.) Elevation A1/A445 call for WOOD cabinets. It seems odd that this is the only room with wood casework. If wood veneer is to be provided, please provide a specification and/or wood species that is to be provided.
- 7.) Are the classroom coathook strips to be painted in the field by contract A13 since, according to the finish schedule they are to match the WCP2. This is rather unusual that the casework contractor would pick up painted wood items. Normally the Carpentry contract picks up all painted items.
- 8.) What contract is to supply the 2x3 galvanized tube support rack for the vanities in elevation A6/A426?
- 9.) Dressing Rooms 171 & 172 call for solid surface tops on A427. The elevations and finish schedule call for plam. Please clarify



- 10.) Section 123600 Part 2.01.C.3 calls for sinks to be provided with the solid surface tops. The plumbing schedule all have either drop-in or undermount sinks scheduled by the plumber. Please confirm this line item is unnecessary
- 11.) When will the BIM section 013700 be issued?
- 12.) Under the items listed in contract A12's scope, is this a boiler plate scope? Items 5 (wood paneling), 6 (solid surface base), and 8 (stair risers and treads) are nonexistent on the plans. Please confirm
- 13.) Finish schedule shows the west wall of Corridor 100F has plam 7 finish. Please provide elevation or is this supposed to be P7 accent color typ of 100E?
- 14.) Please see the attached plans regarding the Learning stair. Detail E3/A143 shows what looks to be solid surface on the stair side of the wall (highlighted in pink) elevated in A2/A406. Does this trim piece go the entire length of the stair as highlighted on the A406 attached or is it to match the apron on the opposite side of the wall in detail E3/A143?
- 15.) Corridor 100R wall running down center shows detail D1/A434. This detail calls for plam panels on both sides of this wall. Elevation C4/A434 and finish schedule calls for paint and PWT for wainscoting. Was this detail used to show the solid surface wall cap only? Please clarify.

---

**RESPONSE:**

- 1.) D6/A445: Provide solid surface wall protection; C1/A444: Provide plastic laminate countertop and no wall protection; E3/A443: Provide solid surface wall protection; A1/A442: Solid surface wall protection is not needed at this location; B2/A441: Solid surface wall protection is not needed at this location; A6/A403: Provide solid surface wall protection; B6/A403: Provide solid surface wall protection; C6/A403: Provide solid surface wall protection. See Addendum No 3.
- 2.) See Addendum #3 for updated details A1/A449, A2/A449, A3/A449
- 3.) All equipment, tables, and countertops shown in plan D3/A404 are by the Kitchen Equipment Contractor. There is no work for Contract A12
- 4.) Provide solid surface countertop and backsplash at casework in Band 158
- 5.) Provide solid surface countertop and backsplash at Learning Commons counters.
- 6.) Provide plastic laminate cabinets at Prep Room 240. See Addendum no 3.
- 7.) The coat hooks and associated backboard are to be assigned to Contract A-06 Carpentry and General Work.
- 8.) This work is assigned to Contract A-05 Structural Steel & Misc Metals. See scope item no. 15



- 9.) Provide plastic laminate countertops at Dressing Rooms 171 and 172.
- 10.) Provide undermount sinks as specified in Section 123600 for vanities in Men 151 and Women 152. Plumbing Fixture schedule for Fixture Type F-3A will be updated by Addendum.
- 11.) See Addendum No. 4. There are no BIM requirements for Contract A12
- 12.) The scope of work items will be revised. See Addendum No. 5
- 13.) Revise finish schedule to read: Corridor 100F - West Wall P-1/P-7
- 14.) Entire length of stair. See Addendum #3
- 15.) Half wall with solid surface cap running down center of Corridor 100 R to plastic laminate finish on both sides. All other walls in Corridor 100R to be painted with PWT wainscoting. See updated sheet A434 included in Addendum #3.

Response By: EDiS, ABHA Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 026

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 02 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Modular Concepts

Date: 02 April 2020

- 1.) Elevation C1/A444 in room 208 and elevation D3/A445 in room 232 show a solid surface counter while the finish schedule shows laminate. Advise what material countertop is intended.
- 2.) A12 Scope item #1 – Verify rubber base is not part of the casework and millwork package.
- 3.) A12 Scope item #6 – Verify there is no solid surface base on the project.
- 4.) 62000, 1.01, 5 – Verify hanging doors and installing hardware is part of the A06 package, not A12.
- 5.) Verify that A12 should include the undermount sinks in rooms 151 & 152.
- 6.) A12 Scope item #8 – The stairs at the stage are concrete per E2/A434. Verify item #8 is not part of the A12 scope.
- 7.) Advise what to provide for the three sheet music storage systems in room 158B. Are these high density slide out units?
- 8.) Verify that ¼" solid surface wall protection is intended at A6/A403, B6/A403 and D3/A445.
- 9.) Verify that A12 does not own the 2x3 tube steel at A6/A426.
- 10.) Are individual compartment or full height wire grille doors intended on specialty music casework?
- 11.) Plan view of rooms 171 and 172 shows solid surface tops, elevations and finish schedule list laminate. Advise what material is intended for these counters.
- 12.) What specification section and contract are to furnish and install the goggle cabinets throughout the project?
- 13.) Sheet A441, General sheet note #6. Verify glass doors are intended, elevations show solid laminate doors.



- 14.) Verify that E4/A446 is intended to be a custom millwork wall, not metal studs and gypsum.
- 15.) Verify that A12 is to furnish and install all of the poplar boards and coat hooks in typical classrooms throughout the project.
- 16.) Verify that A12 does not own painting the poplar coat hook boards inn typical classrooms.

---

**RESPONSE:**

- 1.) Plastic laminate countertop to be provided in Resource Rooms 208 and 232. See updated sheets A444 and A445 included in Addendum #4.
- 2.) The rubber base is assigned to Contract A-15 Carpet & VCT. See A-15 scope item no. 5.
- 3.) There is no solid surface base. This scope item will be deleted.
- 4.) Hanging doors and installing hardware is assigned to Contract A-06 Carpentry and General Work
- 5.) Provide undermount sinks as specified in Section 123600 for vanities in Men 151 and Women 152. Plumbing Fixture schedule for Fixture Type F-3A will be updated by Addendum.
- 6.) The stairs at the stage are concrete. This scope item will be deleted.
- 7.) These items will be part of the FF&E package, at a later date.
- 8.) Solid surface wall protection is intended at A6/A403 and B6/A403. See Addendum #3. Solid surface wall protection is not intended for D3/A445. See updated sheet A445 included in Addendum #4.
- 9.) This work is assigned to Contract A-05 Structural Steel & Misc Metals. See scope item no. 15
- 10.) Individual compartment doors, grille or solid as noted on Drawing A-402. (Grille doors in rehearsal rooms, solid doors in storage rooms)
- 11.) Provide plastic laminate countertop at Room 171 and 172. See Addendum #3.
- 12.) See Section 104400 and Addendum No 4.
- 13.) Revise note #6 on sheet A441 to read NOT USED. See Addendum #4
- 14.) E4/A446 to be installed as custom millwork
- 15.) The coat hooks and associated backboard are to be assigned to Contract A-06 Carpentry and General Work. See Addendum No.4
- 16.) The painting of the poplar boards is Contract A-06 Carpentry and General Work scope. See Addendum No. 4.

Response By: EDiS, ABHA Date: 22 April 2020



REQUEST FOR INFORMATION  
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 028

FROM: ANDREW HICKEY, EDIS COMPANY

DATE: 02 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: 095100 PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: KBA Date: 02 April 2020

- 1) Substitution Request: for section 09-5100. Please see attachments.
- 
- 

**RESPONSE:**

- 1) Not Approved.

Response By: Scott Lester / ABHA Date: 22 April 20

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 031

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 02 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: C.T.A. Roofing and Waterproofing Inc. Date: 02 April 2020

- 1.) Attached is the substitution request form for Dri-Designs Metal Wall Panel and their product information for the Metal Wall Panel Contract on EMMS.

---

---

**RESPONSE:**

- 1.) Not approved

Response By: ABHA Date: 22 Apr 20

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY, ABHA PRE-BID RFI#: 036  
FROM: ANDREW HICKEY, EDIS COMPANY DATE: 07 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: J&B Caulkers Date: 07 April 2020

- 1.) Contracts 04- Masonry, 07-Drywall & 13-Painting all state they own caulking to dissimilar materials. Which contract will own caulking exposed drywall to masonry? Which contract will own caulking hm door frames to masonry and drywall?
  - 2.) Contract A-11 Glass & Glazing states they own caulking to adjacent surfaces. Is that interior and exterior complete? If not, who owns the caulking at the interior perimeter of the windows?
  - 3.) Please confirm the caulking from the GFRC cornice to the brick(D3 & D4 on A512) is owned by Contract 06-Carpentry and General Works?
  - 4.) C1 on A512 show caulk where the metal panel system sets on the masonry. This is usually flashing set in a bed of sealant. Please confirm this will be owned by contract 09-Metal Panels.
  - 5.) Where the Calcium Silicate String Course meets the masonry (B3 & A2 on A513) point with mortar or caulk?
  - 6.) Where the calcium silicate sills sit on the masonry (C3 & C5 on A6.52) point with mortar or caulk?
  - 7.) Do the calcium silicate surrounds to masonry (A1 & D1 on A6.53) point with mortar or caulk?
  - 8.) Do the head joints in the calcium silicate sills, string course & surround point with mortar or caulk?
  - 9.) Details on A502 show fire rated expansion joints at the back up wall and at the face. Will a fire rated expansion joint be required at the face or will a regular expansion joint such as Emseal Seismic Color Seal will be acceptable?
-



**RESPONSE:**

- 1.) Contract A-07 Metal Studs & Drywall owns caulking exposed drywall to masonry. See A-07 scope item 10. Contract A-13 Paint and Wallcovering owns caulking HM door frames to masonry and drywall. See A-13 scope item 9.
- 2.) This includes interior and exterior of the building.
- 3.) Contract A-06 Carpentry & General Work owns the caulking of the cornices. See A-06 scope item 40.
- 4.) Contract A-09 Metal Wall Panels is responsible for the sealant where the brake metal covers the calcium silicate stone string course. See A-09 scope item 4.
- 5.) Provide mortar joints at string course.
- 6.) Provide mortar joints for sills at bed joints, and sealant at head joints.
- 7.) Provide sealant joints where calcium silicate surrounds meet masonry
- 8.) Provide sealant joints at sky-facing joints, and mortar joints elsewhere.
- 9.) Fire-rated expansion joints are required at the face of the fire wall.

Response By: \_\_\_\_\_ EDiS, ABHA \_\_\_\_\_ Date: \_\_\_\_\_ 22 April 2020 \_\_\_\_\_

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY, LANDMARK PRE-BID RFI#: 039  
FROM: ANDREW HICKEY, EDIS COMPANY DATE: 13 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Reybold Construction Date: 13 April 2020

- 1.) Is pollution liability insurance required for this project?
- 2.) The sitework bid from requests a price for BIM coordination. Is this correct? As a sitework contractor, we have never used BIM.
- 3.) Is onsite striping of parking lots to be with epoxy or water based paint?
- 4.) The paving work on Rt 71 (Broad St) appears to be a 2" mill and overlay. Is this correct?
- 5.) Will the demolition contractor be removing the chillers from the CMU enclosure as part of their work?
- 6.) Are turndowns for sidewalks onsite required along curb lines?
- 7.) Are turndowns for sidewalks in DelDOT ROW required along curb lines? DelDOT does not require this to our knowledge.
- 8.) Who is responsible for constructing the loading dock shown on Sheet C110, Addendum 2?

---

**RESPONSE:**

- 1.) Yes. Provide \$2,000,000 per occurrence and \$2,000,000 aggregate
- 2.) BIM is not required for this contract. See Addendum No. 2
- 3.) Epoxy
- 4.) Yes
- 5.) Contract A-01 Demolition is responsible for demolition of the building, garage, chiller enclosure, and chiller. See revised A-01 scope item 3. Contract A-02 Sitework is responsible for the sitework demolition. See A-02 scope item 12.



- 6.) Yes, on-site only adjacent to curbing
- 7.) No
- 8.) All of the slabs on grade shown on the structural drawings are assigned to Contract A-03 Concrete. See drawing S-113 for the limits of work at the loading dock.

Response By: \_\_\_\_\_ EDiS, Landmark \_\_\_\_\_ Date: \_\_\_\_\_ 22 April 2020 \_\_\_\_\_

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 040  
FROM: ANDREW HICKEY, EDIS COMPANY DATE: 13 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Brandywine Contractors Date: 13 April 2020

- 1.) On carpentry scope item #41 indicates architectural metal column covers. Don't see any and there are no specification for these. Please clarify.
- 2.) Please provide clarity on what is expected for scope item #36 residential and commercial appliances. We see (6) refrigerators, (2) washers, & (2) dryers. Please confirm what we should include and provide specifications as there are none now.
- 3.) Please provide specifications for the (3) defibrillators so we know what to purchase
- 4.) Carpentry scope item #42 indicated exterior PVC railing. We have not located any on the plans. Please clarify.
- 5.) Who is responsible for keynotes #20 & #21 on sheet A-401 in the AG room referencing glass front refrigerators and grow labs?
- 6.) Scope item #26 indicates dock bumpers and loading dock equipment. We don't see any and there are no specifications. Please clarify.
- 7.) Scope item #48 indicated architectural louvers. We don't see any and there are no specifications. Please clarify.

---

**RESPONSE:**

- 1.) There are no metal column covers in the project. This scope item will be deleted in Addendum No.5.
- 2.) This scope item will be deleted by addendum. Residential appliances are by Owner.
- 3.) See Section 104400 for defibrillator cabinets. A total of 4 are required.
- 4.) There is no PVC railing in the project. This scope item will be deleted in Addendum No. 5.



- 5.) These are FF&E items to be provided by the owner.
- 6.) There is no loading dock equipment in the project. This scope item will be deleted in Addendum No. 5.
- 7.) There are no architectural louvers. The mechanical louvers are specified in Div. 23. Contract A-06 scope item 48 will be deleted. See Addendum No 5.

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 044  
FROM: ANDREW HICKEY, EDIS COMPANY DATE: 14 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Conventional Builders Date: 14 April 2020

- 1.) Can a specification be given for corner guards and a location?
  - 2.) Will BMI Services be required for contract A-6?
  - 3.) Will a silica exposure plan be needed for contract A-6?
  - 4.) Will architectural louvers be required, if so we need locations.
  - 5.) Contract A-6 Note 46 calls for temporary handrailing infill at the landing and treads. Can details be given on what is required to do the infill?
  - 6.) Contract A-6 Note 45 calls for temporary enclosure at the elevator shaft. Can details be given?
  - 7.) Contract A-6 Note 44 Summary of Work calls for covers at the diamonds. Can details be given for the materials used?
  - 8.) Contract A-6 Note 35 Summary of Work provides recessed mats, would this be under the flooring contractor?
  - 9.) Contract A-6 Note 37 provides postal specialties, we need specs and a location.
  - 10.) Contract A-6 Note 41 calls for architectural metal column covers, can specs and locations be issued?
  - 11.) Contract A-6 Note 42 calls to supply and install PVC railing, this is not called for in our technical spec. Please advise.
  - 12.) Contract A-6 Note 10 Summary of Work calls to furnish the digital key pad and access control. This is normally supplied by Contract 32, please advise.
  - 13.) Drawing A-131 shows "X" on the roof detail. Are these supposed to be walk pads?
-



**RESPONSE:**

- 1.) Corner Guards are specified in Section 102600. See the "CG" note drawings I-114 and I-115 for locations.
- 2.) BIM is not required for Contract A-6. See Addendum No. 3
- 3.) Yes. This is an OSHA requirement
- 4.) There are no architectural louvers. The mechanical louvers are specified in Div. 23. Contract A-06 scope item 48 will be deleted. See Addendum No 5.
- 5.) The infills should be wood cut flush to the top of the metal pan and secured so they don't move. The treads are needed prior to the placement of concrete to allow access to the 2nd floor.
- 6.) The enclosure needs to be a constructed to prevent anyone from falling into the elevator shaft and must meet OSHA requirements.
- 7.) The covers are to be made of 3/4 inch exterior plywood secured to the concrete.
- 8.) This work has been assigned to Contract A-15 Carpet & VCT. See Addendum No. 4
- 9.) There are no postal specialties in the project. This scope item will be deleted in Addendum No. 5
- 10.) There are no metal column covers in the project. This scope item will be deleted in Addendum No.5.
- 11.) There is no PVC railing in the project. This scope item will be deleted in Addendum No. 5.
- 12.) The digital keypads will be provided by Contract A32 Special Systems
- 13.) The crosshatch designation does show walk pads. A hatch will be added to the legend.

Response By: EDiS Company Date: 22 April 2020

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 050  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 15 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Brightfields Date: 15 April 2020

- 1.) I have a question on the your bid forms. To bid, are you still using the bid form Volume 1 dated 21 February 2020? I ask because Contact A-1 for demolition, on the bid form it asks for Alternates 9, 10 and 11 that do not apply. These same alternates are listed on the masonry contract – I just want to make sure I am responsive, can you clarify?

---

**RESPONSE:**

- 1.) The Demolition Contractor has some work associated with Alternates 9, 10, & 11. A-01 scope item 10 was revised in Addendum No. 2. Scope item #40 was added to the Masonry scope in Addendum No. 2.

Response By: EDiS Company Date: 21 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY / ABHA PRE-BID RFI#: 051  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 15 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Brandywine Contractors Date: 15 April 2020

- 1.) Is N.I.C. a typo on sheet not 2 on drawing A-410?
- 2.) What package owns acoustically transparent fabric speaker panels?
- 3.) In Jan. 117 on A1/A-421, should there be toilet accessory designation J on the wall?
- 4.) Should A4, C1, and C4 on drawing A-421 have designations for toilet accessories in the toilet stalls?
- 5.) Should there be toilet accessory designations at lavs on A4/A-422 near column line E.L.?
- 6.) What package owns solid surface wall protection (for example B5/A-442)

---

**RESPONSE:**

- 1.) No, signage and lettering will be bid in a future package, and is NIC.
- 2.) This will be assigned to Contract A-14 Acoustical Ceilings and Wall Panels. See Addendum No. 5
- 3.) Yes, provide toilet accessory type J in Jan. 117. See updated sheet A-421 included in Addendum 4.
- 4.) See updated sheet A-421 included in Addendum 4.
- 5.) See updated sheet A-422 included in Addendum 4.
- 6.) Contractor A-06 Carpentry & General Works is responsible for wall protection. See A-06 scope item 59

Response By: EDiS Company / ABHA Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 054

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 16 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Ralph DegliObizzi Date: 16 April 2020

- 1.) Please let us know the pipe spec for 4" Underground Dual Temperature Water pipe, shown in drawing MP-112 and ME-171.

---

**RESPONSE:**

- 1.) Refer to Section 230505

Response By: Scott Lester, ABHA Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 055  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 16 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Brightfields Date: 16 April 2020

- 1.) As stated in addendum 1 in the narrative – EDiS stated they would request an RFI for the questions asked under Section 1.42 - I cannot locate answers to items 1.42 a., b., d., e., or f.

---

**RESPONSE:**

- 1.) 1.4.2.a - The Asbestos Abatement scope was issued in Addendum No. 2. The limits of foundation abatement are shown in this addendum.
- 2.) 1.4.2.b The existing transformers do not have PCB's. See the response to RFI#4 issued in Addendum No. 4. The main transformer to the building will be removed by the Town of Middletown.
- 3.) 1.4.2.d See the response to RFI#4 issued in Addendum No. 4. The existing elevators are hydraulic. The hydraulic oil has been tested and there are no PCB's. The results will be issued in Addendum No. 5.
- 4.) 1.4.2.e The removal of foundations was clarified in Addendum No. 4. See the response to RFI#5 in Addendum No. 4.
- 5.) 1.4.2.f The demolished concrete can be used as backfill. See the response to RFI#5 in Addendum No. 4

Response By: EDiS Company Date: 21 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 056  
FROM: ANDREW HICKEY, EDIS COMPANY DATE: 16 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Kent Construction Date: 16 April 2020

- 1.) Contract A-06 #36 Provide Residential and commercial appliances. Need specs and model numbers. Shouldn't contract A-25 Kitchen equipment be responsible for the commercial appliances?
- 2.) Contract A-06 #26 Provide dock bumpers and equipment. I see no reference to these items on any drawings. Please advise
- 3.) Contract A-06 # 40 Provide GFRC decorative columns and cornices. I see no reference to the columns anywhere on the drawings. Please advise
- 4.) Contract A-06 #41 Provide architectural metal column covers. I see no reference to the metal column covers on any drawings. Please advise
- 5.) Contract A-06 #42 Provided exterior PVC railing. I see no reference to this item. Please advise.
- 6.) What contract has the stage flooring?

---

**RESPONSE:**

- 1.) This scope item will be deleted by addendum. Residential appliances are by Owner.
- 2.) There is no loading dock equipment in the project. This scope item will be deleted in Addendum No. 5.
- 3.) There are no GFRC columns. This scope item will be modified in Addendum No. 5.
- 4.) There are no metal column covers in the project. This scope item will be deleted in Addendum No.5.
- 5.) There is no PVC railing in the project. This scope item will be deleted in Addendum No. 5.



6.) Contract A-19 Wood & Athletic Flooring is responsible for the stage flooring.

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 058  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 17 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Brandywine Contractors Date: 17 April 2020

- 1.) Where it says "TV N.I.C" (for example A4/A-446) does the carpentry contractor still install the mount and the TV which are supplied by others?
- 2.) Where it says "aluminum letters N.I.C" does that supersede the carpentry scope which calls for interior and exterior signage in item 23? (Two examples are B4/A-451 and B4/A-452.)
- 3.) There is a Knox Box shown at A4/A-451. What contract owns that item?
- 4.) What contract owns the digital sign at D5/A-581?

---

---

**RESPONSE:**

- 1.) Yes. Contract A-06 Carpentry and General Work is responsible to install TV's and brackets furnished by the Owner. See A-06 scope item no 22.
- 2.) This scope item is being deleted in Addendum No. 5
- 3.) There will be 3 Knox boxes. They will be assigned to Contract A-05 Carpentry & General Work in Addendum No. 5
- 4.) The digital sign is to be furnished by the owner and installed by Contract A-30 Electrical.

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 060  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 17 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Conventional Builders Date: 17 April 2020

- 1.) Drawing I-001 the wall protection calls for rigid sheet at the classroom casework walls. This is not shown or called for on the finish schedule, please advise.
- 2.) Drawing A401 Note 20 calls for wide floral cooler, which contract will supply and install?
- 3.) Drawing A401 Note 21 calls for a grow lab, which contract will supply and install?

---

**RESPONSE:**

- 1.) This is shown on drawing I-001 as Wall Protection Material, WPM-1 and WPM-2.
- 2.) These are FF&E items to be provided by the owner.
- 3.) These are FF&E items to be provided by the owner.

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 061  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 17 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Kent Construction Date: 17 April 2020

- 1.) Contract A-06 #10 Reads furnish digital keypad access control devises. Shouldn't contract A-32 special systems carry this?

---

---

**RESPONSE:**

- 1.) The digital keypads will be provided by Contract A32 Special Systems

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 062  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 17 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Peninsula Acoustical Date: 17 April 2020

- 1.) Which contract is responsible for the Adjustable Partition Closure: Gordon Inc. Window Mate Series 40 Plus, as shown in Detail A6/A631.
- 
- 

**RESPONSE:**

- 1.) Contract A-07 Metal Studs & Drywall will be responsible for the adjustable partition closures. See Addendum No. 5

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY

PRE-BID RFI#: 063

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 17 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Peninsula Acoustical Date: 17 April 2020

- 1.) Please indicate which contract is to provide the acoustically transparent coverings over the speaker wells shown on detail B1-A-312? Is it the Acoustical package or the AV Package?
- 

**RESPONSE:**

- 1.) This will be assigned to Contract A-14 Acoustical Ceilings and Wall Panels. See Addendum No. 5

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 064  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 17 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Conventional Builders Date: 17 April 2020

- 1.) We need specs and counts of all residential appliances, please advise.

---

---

**RESPONSE:**

- 1.) This scope item will be deleted by addendum. Residential appliances are by Owner.

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 065  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 17 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Peninsula Acoustical Date: 17 April 2020

- 1.) Please review the I-114 plan and verify if the indicated corner guards are provided by the gym equipment package or the general trades package.
- 2.) Please review the I-115 plan and verify if the indicated corner guards only to be provided at the locations indicated and not at the intermediate pilasters as well.

---

---

**RESPONSE:**

- 1.) Corner Guards are specified in Section 102600. See the "CG" note drawings I-114 and I-115 for locations.
- 2.) Corner Guards are specified in Section 102600. See the "CG" note drawings I-114 and I-115 for locations.

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY

PRE-BID RFI#: 072

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 20 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: Reybold Construction Date: 20 April 2020

- 1.) Are there liquidated damages for this project? If so, what are they?

---

---

**RESPONSE:**

- 1.) No

Response By: EDiS Company Date: 22 April 2020

---

---



REQUEST FOR INFORMATION  
BID PACK A

TO: EDIS COMPANY PRE-BID RFI#: 080  
FROM: ANDREW HICKEY, EDiS COMPANY DATE: 21 APRIL 2020  
PROJECT: EVERETT MEREDITH MIDDLE SCHOOL  
DWG. # / DETAIL: \_\_\_\_\_ SPEC. SECTIONS: \_\_\_\_\_ PAGE: \_\_\_\_\_

**REQUEST:**

Submitted By: J&G Building Group Date: 21 April 2020

- 1.) Referencing the 06 Contract, 1 I'm not finding a spec section to go with #41 Architectural Metal Column Covers. 2 I am not locating anything on the drawings calling out for them.

---

**RESPONSE:**

- 1.) There are no metal column covers in the project. This scope item will be deleted in Addendum No.5.

Response By: EDiS Company Date: 22 April 2020

---

---

# ENVIRONMENTAL

TESTING, Inc.

100 South Cass Street  
P.O. Box 138  
Middletown, DE 19709-0138  
302-378-5341  
302-378-9882 (FAX)

April 17, 2020

Bob Hershey  
Appoquinimink School District  
118 South Sixth Street  
Odessa, DE 19730

Dear Bob:

Attached are results of laboratory analysis of hydraulic oil from the elevator equipment at Meredith Middle School located at 504 South Broad Street, Middletown, Delaware for Polychlorinated Biphenyls (PCB's). A representative sample of hydraulic oil was collected from the elevator holding tank on April 14, 2020 and sample analysis was conducted by EMSL Analytical, Inc. Cinnaminson, New Jersey according to EPA procedure SW846 3580A/8082A.

EPA Regulation 40 CFR 761 regulates PCB's manufacturing, processing, distribution in commerce and use prohibitions. The regulations require that substances containing PCB's greater than 50 ppm be disposed of in the prescribed manner, generally in an approved hazardous waste incinerator or chemical waste landfill.

**Results indicate that no PCB's (<0.99 ppm = <0.99 mg/kg) were detected in the hydraulic oil sample. If you have any questions concerning these data, please don't hesitate to contact me.**

Cordially,

*Gary Hayes*

Gary Hayes  
Environmental Consultant



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

---

Attn:

**Gary Hayes**  
**Environmental Testing, Inc.**  
**100 South Cass Street**  
**PO Box 138**  
**Middletown, DE 19709-0138**

4/17/2020

Phone: (302) 378-9890  
Fax: (302) 378-9882

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/15/2020. The results are tabulated on the attached data pages for the following client designated project:

**Meredith Middle School-Elevator Hydraulic Oil**

The reference number for these samples is EMSL Order #012003939. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

---

Phillip Worby, Environmental Chemistry  
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.  
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>[EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012003939

CustomerID: ENVT54

CustomerPO: 20-047

ProjectID:

Attn: **Gary Hayes**  
**Environmental Testing, Inc.**  
**100 South Cass Street**  
**PO Box 138**  
**Middletown, DE 19709-0138**

Phone: (302) 378-9890  
 Fax: (302) 378-9882  
 Received: 04/15/20 9:30 AM

Project: **Meredith Middle School-Elevator Hydraulic Oil****Analytical Results****Client Sample Description** 041420-047-01**Collected:** 4/14/2020  
10:00:00 AM**Lab ID:** 012003939-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>GC-SVOA</b>					
3580A/8082	Aroclor-1016	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1221	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1232	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1242	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1248	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1254	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1260	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1262	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL
3580A/8082	Aroclor-1268	ND D	0.99 mg/Kg	4/15/2020 SM	04/15/20 0:00 TL

**Definitions:**

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results



---

# BIM EXECUTION PLAN

Everett Meredith Middle School  
504 South Broad Street  
Middletown, DE 19709

Appoquinimink School District



EDiS Company and EDiS BIM Services



**BIM PROCESS IS MANDATORY**

---

SECTION 013700 - BIM COORDINATION

1. CONTRACTOR 3D MODEL RESPONSIBILITY

The purpose of a three-dimensional model is to aid in project review development. Contractor and its sub-contractors, as part of the Everett Meredith Middle School project, shall hold all responsibility to adhere to AIA G202-2013 Project Building Information Modeling Protocol Form Matrix (see Exhibit 1 and referenced attachments) while creating their BIM model respectively. This BIM model shall reflect the two-dimensional contract drawings provided in bidding package, RFI, and ASI. The Contractor's referenced and shared three-dimensional model is only utilized as a visual aid to begin per matrix LOD required by Contractor.

1A. Architect and their consultants will Furnish Contractor one set of Revit 2019 Building Information Modeling files (BIM) of Drawing for use in preparing coordination digital data files.

- a. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to drawings.
- b. Digital data software program: Drawings are available in Revit 2019 digital data software working on the Windows operating system. Sheet views will be deleted to protect the architect and consultants. Full model will be available for coordination.
- c. Contractor shall execute a data licensing agreement in the form of the agreement included in the project manual.
- d. The Contractor and its prime contractors are responsible to execute all licensing for requested software to coordinate the project.

1B. BIM File Incorporation: Develop and incorporate coordination drawing information into Building Information Model established for Project.

- a. Each of the Prime Contractors shall model their respective systems in the BIM model that are part of their contract and provide updated files to the HVAC contractor.
- b. The HVAC contractor (Prime Coordinator) shall perform three-dimensional component conflict analysis as part of the preparation of coordination drawings. Resolve component conflicts with each Prime prior to submittal. Indicate where conflict resolution requires modification of design requirements by Architect and obtain approval of Architect.
- c. HVAC contractor shall revise the BIM model as necessary to reflect the coordination changes. HVAC contractor shall pay for the cost of revisions to the BIM model. HVAC contractor shall include all cost due to the revisions of project changes such as but not limited to RFI, ASI's and owner changes. All modifications, enhancements, additions, and changes to structural, mechanical, electrical, plumbing, fire protection, or HVAC components shall be made by the respective Prime Contractors responsible for that system as part of their contract.

2. DEFINITIONS

- 2.1. **Base Structural Model** – the structural steel mill order drawing file showing all structural elements. This model is not necessarily fully detailed with all connections.

- 
- 2.2. **Base Architectural Model** – a combination of the Base Structural Model and key architectural elements. This model is to be used by all coordination participants as the background file in which to develop their work. No information within this model will be changed through the coordination process. It is for reference only.
  - 2.3. **Base Composite Model** – this model includes all trade drawing files within the Base Architectural Model as a representation of the completed systems. This model is used to run the intermediate clash reports and is considered a work in progress.
  - 2.4. **Final Coordination Model** – this model shows all trades’ systems fully coordinated within the Base Architectural Model. All clashes have been resolved. No further coordination is required. The work shown within this model represents the upcoming installations of each system.
  - 2.5. **Completed Coordination Model** – this model is the close-out submittal to the Owner and includes the information within the Final Coordination Model as well as any project updates that have taken place during installations such as RFI responses, as-built conditions, etc.
  - 2.6. **Building Information Model** - A Building Information Model(s) is a digital representation of the physical and functional characteristics of the Project and is referred to in this document as the “Model(s),” which term may be used herein to describe a Model Element, a single Model or multiple Models used in the aggregate. “Building Information Modeling” means the process and technology used to create the Model.
  - 2.7. **Level of Development** - The Level(s) of Development (LOD) describes the level of completeness to which a Model Element is developed.
  - 2.8. **Model Element** - A Model Element is a portion of the Building Information Model representing a component, system or assembly within a building or building site. Model Elements are represented by the Construction Specifications Institute (CSI) UniFormat™ classification system in the Model Element Table in Exhibit 1 - Article 3.
  - 2.9. **Model Element Author** - The Model Element Author is the party responsible for developing the content of a specific Model Element to the LOD required for a particular phase of the Project. Model Element Authors are identified in the Model Element Table in Exhibit 1 - Article 3.
  - 2.10. **Model User** - The Model User refers to any individual or entity authorized to use the Model on the Project for analysis, estimating, or scheduling.
  - 2.11. **TCD** – Trade contract drawings developed by MEP contractor.
3. **COORDINATION DRAWING PROCESS – GENERAL REQUIREMENTS.**
    - 3.1. The coordination model shall be derived from the design base composite model which shall be in a (Program File Format – Ex: Revit 2017) format and utilized by all coordination participants. The A/E is to provide this base composite model as needed at each plan deliverable for coordination efforts. This model will be utilized to establish field installation sequence, resolve trade coordination issues prior to installation, and to make the most efficient use of installation space without sacrificing system performance for mechanical, electrical, structural and architectural systems. (Program File Format – Ex: NAVISWORKS or IFC) design review software will be used to document, identify and resolve interferences between all trades.

- 
- 3.2. Communication is a critical element to the success of this coordination process. All project team members must be in constant communication to keep the process moving forward according to the sign-off schedule (5.1). Constant collaboration is expected of all team participants and each participant should be proactive in identifying and resolving design, engineering, and model interferences. Contractors avoiding the coordination process shall receive liquidated damages for missing meetings and negatively impacting project completion.
  - 3.3. All trade contractors own their respective modeling for their contract work. EDiS Company will facilitate and lead the 3D coordination modeling process. It is the responsibility of all coordination participants to resolve discrepancies pertaining to their own model. All trades shall be responsible for collisions/clashes/coordination issues involving their respective trade(s) and proposed work. Coordinated work takes precedence over field routed systems. Each Contractor to provide LOD 350 total coordination models for sign off.
  - 3.4. Coordination meetings will occur weekly starting TBD. Selected coordination team members are required to generate a clash-free model inclusive of all systems. The following participants are required to attend the weekly coordination meetings:
  - 3.5. A mandatory coordination kick-off meeting for all participants will review; team collaboration, the execution process, the coordination schedule, establishing zones per system, use of the coordinated elements during construction, project specific information and requirements, and model/document standards.
  - 3.6. Coordination meetings will be held at Virtual Goto Meeting to review the model's progress per the schedule and process indicated.
  - 3.7. Utility corridors and above ceiling space for each trade, will be established by the group at the beginning of the process. These zones will be adjusted through the coordination process to meet installation requirements and feasibility.
  - 3.8. All participants are required to identify the submittals required for accurate detailing of the coordination model (such as equipment, light fixtures, etc.) and to obtain final approval so the information can be incorporated into the modeling process.
  - 3.9. The 3D coordination modeling process does not replace the standard submittal process and will not be considered as a submittal. Exceptions: The submittals issued to reflect the 3D model content issued to A/E.
  - 3.10. Meeting Procedures:

NOTES: all contracted parties involved with coordination are required to sign off on all coordinated models via sign off TCD drawings. All clash reports issued to subcontractors require completion by next BIM meeting.

Meeting Type	Project Stage	Frequency	Participants	Location
BIM Requirement Kick-off	Construction	Once	EDiS Team & Contracts #	Site Trailer
BIM Coordination	Construction	Weekly	EDiS Team & Contracts #	Site Trailer
BIM Clash Detection	Construction	Weekly	EDiS Team Issue to Contracts	Site Trailer
Field Installation Process Coordination Meetings	Construction	Weekly	EDiS Team & Contracts #	Site Trailer
TCD Drawings	Construction	Weekly	Contracts Mechanical	Site Trailer
Sign off on TCD Drawings	Construction	At completion	All Parties w/Contract	Site Trailer

3.11. The coordination meeting:

- 3.11.1. The purpose is to review and resolve items on the current clash report in conjunction with the project coordination schedule. The meetings will focus on clashes that cannot be resolved by internal collaboration. EDiS Company will facilitate the meeting and will make final decisions on clash resolution that are the least impact to the project as a whole. COORDINATION MEETINGS WILL NOT BE USED TO RESOLVE INDIVIDUAL MODELER'S/ENGINEER'S/ARCHITECTURE'S/CONTRACTOR'S WORK. If a Contractor does not post a clash-free system of its own work or that only contains a very limited number of clashes internally (Example: Fire Sprinkler Clashing with Fire Sprinkler), that Contractor will be considered unprepared for the meeting and will be responsible for any delays to the project schedule and any associated costs due to that delay which shall be determined by EDiS Company.
- 3.11.2. Each team participant will review the clash report prior to the subsequent coordination meeting in order to clean up any clashes that can be made without review by all participants.
- 3.11.3. All project participants are expected to be prepared for the meeting with new drawing work of the next area to be coordinated per the coordination schedule and any drawing changes based on the published clash report. Each participant will have available any shop model, submittals or other materials required to solve identified or potential conflicts.
- 3.11.4. The coordination schedule will be maintained and all identified conflicts addressed and resolved per the construction schedule. The coordination schedule may change as a result of design and/or model changes requested and

- 
- made by the Owner, Architect or Engineer. In addition, the coordination schedule assumes selection of equipment is made within the time frame of the construction schedule as needed so it is incorporated into the coordination efforts without delay.
- 3.11.5. All agreed upon corrections to identified clashes determined by the team at the Coordination Meeting are to be updated and resolved prior to the next meeting.
  - 3.12. When an area of the model is fully coordinated and clash-free, each participant agrees:
    - 3.12.1. That each trades work is fully coordinated and will be installed per the signed off area as reflected in the coordination model. Sign off drawings from each trade are turned over in PDF form with projects title block. EDiS Company will include legend and title block for trade PDF file.
    - 3.12.2. All trades to provide Total Coordination drawings at the time of sign off. TCD's are drawings which include all trades sign off models. Models are submitted for turn over to EDiS Company. The purpose for TCD's is to provide coordinated building models for jobsite coordination. Models from Contractors to include all but not limited to: item elevations, product type and all equipment tags.
    - 3.12.3. During the installation of each trade's work, EDiS Company will refer to the signed off report and the 3D model to resolve any conflicts. Each installation firm agrees to install all work per the signed off drawings/model, without deviation. If a deviation, during installation, takes place without prior approval from all detailing parties, it will be the responsibility of the installing contractor to tear out the work and install it as shown on the signed off drawings/coordination model. The cost of this work will be evaluated when the issues arise; however, the party responsible for the conflict will be responsible for the cost of the fix, including the additional detailing time of all parties involved.
    - 3.12.4. The model is not considered to be the final coordination model until the BIM Coordinator, EDiS Company's Project Manager, A/E, and Owner has approved all clash free systems and routings and documents are signed off by all parties (contractors).
  - 3.13. Should a conflict arise during installation that was missed during the coordination process, and not a result of deviating from the signed off area, the coordination team will work together to find a solution that is optimal for all trades and the project.
  - 3.14. The final coordination model shall be kept up to date by all participants during construction to include as-built information and any other pertinent data that is essential to the project. The data will be submitted electronically in Revit, AutoCAD, NWC, PDF format. Items to be included are:
    - 3.14.1. RFI responses.
    - 3.14.2. Design change orders or designs that are in addition to the original contract documents.
    - 3.14.3. Equipment will be tagged with all (Owner required) identification information within the model (ex. Equipment schedule information and O&M Manuals). This identification information will be the same and correspond to all other

- 
- close-out documentation. This close-out documentation including O&M manuals, maintenance information, etc. will be included in PDF form.
- 3.14.4. EDiS will provide a location for the Contractor to submit the required documentation at a later time. EDiS will generate the completed coordination model based on these documents for turn-over to the owner.
  - 3.14.5. Tekla or Navisworks will be utilized to link PDF closeout documents, select RFI's, select Images, etc., to the closeout model. Contractors need to provide closeout documents in the format requested by EDiS for the closeout model as well as adding smart data to other model type files as determined necessary by EDiS within the time frame A/E dictates. For example, if Revit files are needed to produce the closeout model, EDiS may direct Contractor to set up certain Revit views for the exporting of files which make up the as-built models. A/E may also request that the Contractor create viewpoints for their equipment in as-built model.
  - 3.15. Data for coordination will be available on the Box.com, to be referenced by the other participants. Models and drawing files will never be tampered with by non-owners of the file. If a mistake occurs and a drawing is inadvertently modified, the responsible party is required to alert the project team. (See attachment)
  - 3.16. The Owner's commissioning agent can attend the coordination meeting to review the detailing effort for commissioning related items.
  - 3.17. All trades will provide Level of Development (LOD) (350) models for weekly coordination meeting.
4. REQUIREMENTS OF THE LEAD COORDINATOR
- 4.1. The Lead Coordinator will be EDiS Company.
  - 4.2. Identification of a common insertion point for all drawing files. (Utilize Revit Models origin)
  - 4.3. A/E to provide Lead Coordinator model exports to 2D/3D CAD of each trade component as needed to coordination. Origins to be maintained in exports.
  - 4.4. Using the A/E's files, the Lead Coordinator will utilize & maintain the base architectural model.
    - 4.4.1. The base architectural model is a combination of the base structural model and other architectural elements. These architectural elements will include all elevated 3D architectural elements including, but not limited to, all walls that extend to the deck, fire and smoke walls, soffits and associated framing, ceiling planes, and finish floor planes.
    - 4.4.2. This model will consist of cleaned-up floor plans void of any excessive notations, leaders, bubbles, marks, grid lines, etc. that are not required for detailing development and that may potentially cause a conflict in the base composite model.
    - 4.4.3. In the event of changes to the A/E's contract documents, the A/E must revise the base architectural model/MEP/structural models and distributed to all coordination participants. This will require Contractor participation as need by A/E to complete the revised models for directive. Revision work will be directed by Owner through an executed change order.

- 
- 4.4.4. The base architectural models will be distributed and maintained by EDiS Company.
  - 4.5. Collation of all trades' detailing models as posted to the project's web-based posting site into a Base Composite Model thru the use of Navisworks 2017.
    - 4.5.1. Establish a standard two inch (2") soft tolerance within the clash detection software. This tolerance will result in a reported clash for any elements drawn closer than two inches (2") to one another.
    - 4.5.2. Assess and include most current clash files including the generation of a clash reports and distribution to all project participants per the coordination schedule.
    - 4.5.3. Collect final as-built files from all trades and generate a Final Coordination Model to submit to CM as part of the close-out requirements.
    - 4.5.4. Coordination meeting minutes shall be kept by EDiS Company Lead Coordinator or EDiS' Project Manager showing issues and resolution dates.
5. REQUIREMENTS OF THE STRUCTURAL STEEL CONTRACTOR
- 5.1. Obtain from the A/E Structural Revit files to be used in the generation of the base structural model.
  - 5.2. The structural Contractor will develop and provide the base structural model within the time frame dictated by EDiS and provide structural model updates to ensure the coordination team is coordinating the MEP/FP to the most up-to-date structural model.
  - 5.3. All structural framing members in the final sizes and locations (typically referred to as a "mill order" or "procurement" model) will be shown in the model as 3D objects with surfaces. At the discretion of the lead coordinator, this model may be void of all hardware and secondary structural steel but should include the major components: primary steel, metal decking, slab on metal decking, and gusset plates.
  - 5.4. The structural insertion/datum point must match the architectural insertion/datum location. No detailing work shall take place until the insertion points of the architectural and structural models match.
  - 5.5. The steel Contractor is responsible for resolving their own modeling issues (i.e.: steel not to scale, missing key structural components, missing surface data, and model showing as wire frame data, model exported to proper file format, etc.). The steel Contractor is responsible to provide a steel design model in a usable format for all coordination participants to reference as the base structural model.
  - 5.6. A FINAL 3D steel model and 2D shop drawings shall be submitted to the structural engineer of record, and used for field erection. It must be completed and submitted in accordance to the BIM schedule. This model shall consist of:
    - 5.6.1. All primary and secondary steel including metal deck, slab on metal deck, actual gusset plate sizes, connection details, edge of slab details (pour stop), brick relief angles, embeds, anchor bolts, and other miscellaneous metals. Curtain Wall embeds modeled by others.
    - 5.6.2. Submit final approved files to Lead Coordinator for insertion into the coordinated model, and to the design team in the form of shop drawings and/or Navisworks compatible model.

---

6. DETAILING REQUIREMENTS OF ALL PARTICIPANTS

6.1. File sharing information:

**6.1.1. Site Contractor (SIT-1)**

- Attend BIM trade coordination meetings
- Deliver three dimensional model to coordination team
- Required to deliver items identified in G201 matrix such as
- Develop appropriate tie-in locations of utilities with trades. Site contractor required to deliver main connections in model format
- Site underground items outside direct tie in locations not required in three dimensional models.
- Sanitary piping tie-in
- Storm water tie-in
- Domestic water tie-in

**6.1.2.** The in-progress (Coordination Software – Ex: IFC/NWC/Cad) naming convention will be: project-trade-level. Example:

Project Designation -MechPipe-1

Project Designation -HVAC-1

Project Designation –Fire Protection-1

Project Designation -Elec-1

Project Designation -Plumbing-1

Project Designation -TeleCom-1 or AV-1

Project Designation –Pneumatic Tube-1, etc.

Additional designations may be added based on project specific scope and deliverable requirements and/or deemed as a critical component to the coordination process.

**6.1.3.** Each model posted by the contractor shall contain sub-layers for the purpose of system identification and isolation during the clash detection process. Example:

**HVAC-1** shall contain sub-layers for:

- Supply
- Return
- Exhaust
- Fire Smoke-Dampers
- VAV clearance
- AC Door Access
- Fan Coil Units
- FCU Access
- Equipment
- Equipment Pads
- Equipment Clearances
- Hangers (designated per system)

**MechPipe-1** shall contain sub-layers for:

- Hydronic Pipe Supply
- Hydronic Pipe Return
- Chilled Pipe Supply
- Chilled Pipe Return

- Shutoff Access
- Equipment
- Equipment Pads
- Equipment Clearances
- Hangers

**Plumbing-1** shall contain sub-layers for:

- Domestic Water Supply
- Domestic Water Return (with additional layer designations for hot and cold)
- Gas
- Med-Gas
- Shutoff Access (designated per system)
- Sanitary
- Vent
- Roof Drain
- Rain Conductors
- Equipment
- Equipment Pads
- Equipment Clearances
- Hangers (designated per system)

**Elec-1** shall contain sub-layers for:

- Lights
- Light Clearance
- Conduit (with additional layer designation for power and data)
- Cable Tray
- Cable Tray Access Clearance
- Pull Boxes
- Pull Box Access Clearance
- J-Boxes
- Elec. Panels
- Elec. Panel Access Clearance
- Elec. Troughs
- Elec. Trough Access Clearance
- Equipment
- Equipment Clearances
- Equipment Pads
- Hangers

**Fire Protection1** shall contain sub-layers for:

- Mains
- Branches
- Shutoff Access
- Hangers

**Pneumatic Tube-1** shall contain sub-layers for:

- Equipment
- Equipment Access

- Hangers

Additional sub layers may be added based on project specific scope and deliverable requirements and/or deemed as a critical component to the coordination process.

- 6.1.4. Clash detection files will be posted to **BuildingBlok.com** before **12:00 PM**, on **Wednesday and Friday** by each of the trades. The lead coordinator will also post updated coordination models as needed. The lead coordinator will maintain the master coordination files. The weekly coordination model will be name abbreviated Project Name-Floor-Coordination Model-Month-Day-Year.

All coordination participants will maintain a current control copy of their own drawing files outside of the project's web-based posting site. Control drawings are to include all previously posted files.

- 6.2. Trade Colors in the Coordination environment:

- Duct Supply – Dark Green
- Duct Return- Light Blue
- Duct Exhaust –Light Green
- Mech Pipe- Orange
- Pressure lines/Gas – Tan
- Sanitary/Vent – Brown
- Rain Conductors/Roof Drains – Maroon
- Domestic Water- Blue
- Fire – Red
- Pneumatic – Purple
- Electrical – Yellow
- All Base Architectural Elements (walls, soffits, ceiling & floor planes, etc.) will assume Arch model color scheme saved in the export or Lead Coordinator will modify select color scheme in the coordination model.
- Steel – Dark Grey
- Any hangers and equipment (that is fed per the designated system) will assume the same color of that system it is associated with. Additional color schemes may be added based on project specific scope and deliverable requirements and/or deemed as a critical component to the coordination process.

- 6.3. When posting drawing files for coordination:

- 6.3.1. Posted Contractor coordination files of each trades system should be clash-free with in their respective data. To clarify; trades should refrain from posting data that shows their systems clashing with itself.
- 6.3.2. When coordination of an area is completed there should not be any unresolved clashes remaining.
- 6.3.3. These files should be void of any text, dimensions or any other notations.

- 6.4. Each coordination participant is required to submit three (3) complete sets of installation drawings as well as electronic PDF's prior to any work being installed in the field. If A/E spec requires more or less than that will govern over this document. These complete drawings are to be fully dimensioned and notated. Items to be noted in the final, fully coordinated drawing paper and electronic files of each system include:

- 6.4.1. Bottom and top elevations of duct, pipe, conduit racks, cable trays etc. must be indicated (where applicable).

- 
- 6.4.2. Dimensions shall be shown from the gridlines to the centerline of each element drawn (round duct, pipe, cable tray, etc.) and from finished floor.
  - 6.4.3. Height to top of light housing assembly must be indicated.
  - 6.4.4. Labeling of all equipment.
  - 6.5. During the coordination drawing effort, priority will be given to those systems that have the least flexibility. The following list is a descending order of the system priority and shall be used as a general guideline. Throughout the coordination drawing effort, adjustments and deviations to this list can be made with the approval of EDiS Company. (0'- 6") clear above the ceiling shall be maintained for access and construction of the ceiling, whenever possible. Required maintenance and/or code access spaces and set-backs take precedence over all systems.
    - 6.5.1. Gravity Pipe
    - 6.5.2. Plumbing Vent
    - 6.5.3. Ductwork and appurtenances
    - 6.5.4. Cable tray
    - 6.5.5. Recessed light fixtures
    - 6.5.6. Fire protection piping and fixtures
    - 6.5.7. Electrical conduit over (3/4") in diameter
    - 6.5.8. Pneumatic tube and other record or material conveying systems
    - 6.5.9. HVAC piping
    - 6.5.10. Plumbing, supply and medical gas piping
    - 6.5.11. Electrical conduit smaller than 3/4" in diameter
    - 6.5.12. Above ceiling miscellaneous metal supports
    - 6.5.13. Provide all copper tube routes (racks) for mechanical systems, including valves, clearance zones and hangers.
  - 6.6. Items to be included in the detailed drawing progress include:
    - 6.6.1. All systems must be fully detailed and shown as individual elements including ductwork, all piping 3/4" and larger, pneumatic tubing, exterior wall connections, any piping that is smaller than 1/2" that is racked or banked, etc.
    - 6.6.2. Ductwork is to include size, layout and routing of all metal and flex ductwork, re-heat coils, terminal units, filters registers, grilles, diffusers, and similar features; provide notation for diffuser boot sizes and heights and any other special features
    - 6.6.3. All valves, dampers and VAV's or heat pumps will note any items requiring access for service and maintenance as well as access doors in inaccessible ceilings.
    - 6.6.4. All piping valves, boxes, supports, etc. are to be fully detailed
    - 6.6.5. Sprinkler head locations shall be shown on ceiling plans.
    - 6.6.6. All electrical conduits two inches (2") or more in diameter are to be modeled and shown in addition to smaller diameter conduit that is racked or banked.
    - 6.6.7. Electrical items such as hangers, supports, electrical fixtures, lights, speakers, detectors, sensors, cable trays, raceways, sleeves, pull boxes, and access space claims, etc. must be shown.
    - 6.6.8. If an element is not shown, under the lead coordinators approval, it will be assumed to be field routed and to not interfere with the other elements that are shown or within code clearances. Contractors who field route their elements are

responsible to ensure their installation will be feasible and void of creating a clash in the field. Coordinated items take precedence over field routing.

- 6.6.9. All major hangers and supports (including sway bracing, equipment bracing, hangers, etc.), penetrations, openings must be shown for all systems. Sharing of supports with other systems is discouraged, but can be accomplished with prior owner and/or field inspector approval.
- 6.6.10. All insulation must be shown with appropriate thicknesses. All insulation & clearance zones will be modeled or accounted for during the clash detection process.
- 6.6.11. Fire spray: If required by your building type, establish a safe thickness from all structural objects with which to run your clashes. Assume fire spray will be two inches (2") thick.
- 6.6.12. Engineered stud framing must be modeled for king studs and doors.
- 6.6.13. Code clearances and maintenance access clearances must be shown and maintained; these include, but are not limited to access to VAVs, air handling units, egresses around pumps and tanks, smoke FDs, electrical panels, pneumatic tube transfer units, cable tray access, pull boxes, valve access, etc.
- 6.6.14. All trades must coordinate and detail their systems with the intent of installing each system at the optimal elevation above ceiling, taking into consideration, access to equipment for maintenance, repairs, connections, filters and removal while eliminating or minimizing the impact to surrounding components.
- 6.7. Established Clash Files are to be incorporated to ensure proper coordination. List of those files to be provided by the Lead Coordinator.
- 6.8. Refer to Appendix B – Soft Clash Requirements for additional soft-clash requirements.

**7. SCHEDULE OF DRAWING COMPLETION AND SIGN-OFF**

7.1. The participants should plan on the coordination process taking three (3) months. The coordination schedule is as follows:

This table will be populated at the BIM Coordination Kick-off Meeting. OR Schedule to be developed as part of the master construction schedule development (see Section 00230).

<b>Zone</b>	<b>Floor</b>	<b>Coordination Meeting</b>	<b>Sign-Off Date</b>

- 7.2. At the completion of each floor, the team will determine the specific "priority walls" that will be constructed full-height ahead of other interior partitions and MEP installations.
- 7.3. 3D MEP/FP Coordination Team

7.3.1. The goal of the coordination team will be to integrate the architectural, structural, mechanical, electrical, fire protection, and project specific elements into a collaborative 3D model to identify and resolve issues pertaining to MEP/FP systems and to ensure succinct and expedited field installations of these systems following the release of each zone/floor after clash free conditions are met. (Filled out at BIM Coordination Kick-off Meeting)

7.3.2.

<b>BIM Coordinator</b>	<b>EDiS Company</b>
Main Contact	Chris Donahue
Phone Number	302-421-2963
Email Address	<a href="mailto:cdonahue@ediscompany.com">cdonahue@ediscompany.com</a>
<b>Project Manager</b>	<b>EDiS Company</b>
Main Contact	Andy Hickey
Phone Number	302-421-2972
Email Address	<a href="mailto:ahickey@ediscompany.com">ahickey@ediscompany.com</a>
<b>Project Engineer</b>	<b>EDiS Company</b>
Main Contact	<b>TBD</b>
Phone Number	
Email Address	
<b>Project Superintendent</b>	<b>EDiS Company</b>
Main Contact	<b>TBD</b>
Phone Number	
Email Address	
<b>Site Contractor</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	
<b>HVAC</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	
<b>Electrical</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	

<b>Concrete</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	
<b>Plumbing and Piping</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	
<b>Architectural</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	
<b>MEP/FP Engineers</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	
<b>Structural Steel</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	
<b>Miscellaneous Steel</b>	<b>TBD</b>
Main Contact	
Phone Number	
Email Address	

EXHIBIT '1'

ARTICLE 1: GENERAL PROVISIONS

1.1 This document defines protocols, expected levels of development, and authorized uses of Building Information Models on this Project. It assigns specific responsibility for the development of each Model Element to a defined Level of Development at each Project phase. Where a provision in this Exhibit conflicts with a provision in the Agreement into which this Exhibit is incorporated, the provision in this Exhibit will prevail.

1.1.1 The parties agree to incorporate this Exhibit by reference into any other agreement for services or construction for the Project.

ARTICLE 2: LEVEL OF DEVELOPMENT (LOD)

2.1 The following LOD descriptions identify the specific content requirements and associated authorized uses for each Model Element at five progressively detailed levels of completeness. Each subsequent LOD builds on the previous level and includes all the characteristics of previous levels.

2.2 **LOD 350**

2.2.1 **Model Content Requirements.** Overall building massing indicative of area, height, volume, location, and orientation may be modeled in three dimensions or represented by other data.

2.2.2 **Authorized Uses**

2.2.2.1 **Analysis.** The Model may be analyzed based on volume, area and orientation by application of generalized performance criteria assigned to the representative Model Elements.

2.2.2.2 **Cost Estimating.** The Model may be used to develop a cost estimate based on current area, volume or similar conceptual estimating techniques (e.g., square feet of floor area, condominium unit, hospital bed, etc.).

2.2.2.3 **Schedule.** The Model may be used for project phasing and overall duration.

2.3 **LOD 300 and 350**

2.4.1 **Model Content Requirements.** Model Elements are modeled as specific assemblies accurate in terms of quantity, size, shape, location, and orientation. Existing building elements are modeled as shown on building record drawings. Non-geometric information such as object description and object tags (door number, equipment number, etc) and quantities should be included with each object. Examples of the details required for systems modeled to LOD 300 include, but are not limited to:

- Show all, but not limited to, unground utilities, plumbing and mechanical, concrete modeled as contract documents.
- Site Utilities (see matrix and 6.1 front end)
- Masonry
- Steel decking
- Correct slopes for gravity piping for sanitary, storm or wet fire suppression systems.

- 
- Piping materials specifically called out on documents included with model element attributes (generic manufacturer for system components are acceptable).
  - Insulation around Pipe and Ducting.
  - Duct dampers included with the duct system.
  - Doors/Frames (hollow metal and storefront)
  - Owner Furnished Fixtures, Equipment, etc. generically modeled as space claims by the Model Element Author (MEA).
  - Concrete
  - Anchor bolts
  - Structural steel
  - Steel stairs, handrails
  - Floor/roof penetration steel
  - Significantly sized support hangers and sleeves for all systems
  - Uni-Strut associated with system components if it is located in a tight overhead space (case by case basis)
  - Architectural millwork/casework
  - Metal panels and support steel
  - Curtainwall system
  - Steel stud framing including kickers and trusses at floor penetrations.
  - Valve locations (clearance)
  - Access panels (these should be modeled with the system they provide access to).
  - Conduit racks or other substantially wide / bundled electrical routing. (these can be generically modeled, i.e. extruded boxes, space claims)
  - Single conduit runs associated with any system (lighting, power, controls, etc) if needed to coordinate concrete coring.
  - Kitchen equipment
  - MEP/FP & Low Voltage Equipment
  - MEP/FP & Low Voltage Systems
  - Pull box locations and any extra space claims for their access.
  - Telecom & Data

#### 2.4.2 Authorized Uses

2.4.2.1 **Construction.** Suitable for the generation of traditional construction documents. Contractors may utilize this model for coordination purposes and creation of shop drawings.

2.4.2.2 **Analysis.** The Model may be analyzed for performance of selected systems by application of specific performance criteria assigned to the representative Model Elements.

2.4.2.3 **Schedule.** The Model may be used to show ordered, time-scaled appearance of detailed elements and systems.

### ARTICLE 3: MODEL ELEMENTS

#### 3.1 Reliance on EDiS Company's Model Element Matrix

- 
- 3.1.1 The EDiS Company Model Element Matrix at the end of this section identifies (1) the LOD required for each Model Element at the end of each Project phase, and (2) the Model Element Author responsible for developing the Model Element to the LOD identified. Each Model Element Author's content is intended to be shared with subsequent Model Element Authors and Model Users throughout the course of the Project.
  - 3.1.2 It is understood that while the content of a specific Model Element may include data that exceeds the required LOD identified in the Model Element Table for a particular phase, Model Users and subsequent Model Element Authors may rely on the accuracy and completeness of a Model Element consistent only with the content required for a LOD identified in the Model Element Table.
  - 3.1.3 Any use of, or reliance on, a Model Element inconsistent with the LOD indicated in the Model Element Table by subsequent Model Element Authors or Model Users shall be at their sole risk and without liability to the Model Element Author. To the fullest extent permitted by law, subsequent Model Element Authors and Model Users shall indemnify and defend the Model Element Author from and against all claims arising from or related to the subsequent Model Element Author's or Model User's modification to, or unauthorized use of, the Model Element Author's content.

**3.2 Table Instructions**

- 3.2.1 The Model Element Table at the end of this section indicates the LOD to which each Model Element Author (MEA) is required to develop the content of the Model Element at the conclusion of each phase of the Project. EDiS Company holds the rights of this table and all ownership right for edits are performed via EDiS Company.
- 3.3 EDiS Company's Model Element Matrix AIA Document G202-2013 (attached).
- 3.4 Insertion Point (attached).

# AIA<sup>®</sup> Document E203<sup>™</sup> – 2013

## ***Building Information Modeling and Digital Data Exhibit***

This Exhibit dated the 1st day of April in the year 2020 is incorporated into the agreement (the "Agreement") between the Parties for the following Project:  
*(Name and location or address of the Project)*

Everett Meredith Middle School  
504 South Broad Street  
Middletown, DE 19709

### **TABLE OF ARTICLES**

- 1 GENERAL PROVISIONS**
- 2 TRANSMISSION AND OWNERSHIP OF DIGITAL DATA**
- 3 DIGITAL DATA PROTOCOLS**
- 4 BUILDING INFORMATION MODELING PROTOCOLS**
- 5 OTHER TERMS AND CONDITIONS**

### **ARTICLE 1 GENERAL PROVISIONS**

§ 1.1 This Exhibit provides for the establishment of protocols for the development, use, transmission, and exchange of Digital Data for the Project. If Building Information Modeling will be utilized, this Exhibit also provides for the establishment of the protocols necessary to implement the use of Building Information Modeling on the Project, including protocols that establish the expected Level of Development for Model Elements at various milestones of the Project, and the associated Authorized Uses of the Building Information Models.

§ 1.2 The Parties agree to incorporate this Exhibit into their agreements with any other Project Participants that may develop or make use of Digital Data on the Project. Prior to transmitting or allowing access to Digital Data, a Party may require any Project Participant to provide reasonable evidence that it has incorporated this Exhibit into its agreement for the Project, and agreed to the most recent Project specific versions of AIA Document G201<sup>™</sup>–2013, Project Digital Data Protocol Form and AIA Document G202<sup>™</sup>–2013, Project Building Information Modeling Protocol Form.

§ 1.2.1 The Parties agree that each of the Project Participants utilizing Digital Data on the Project is an intended third party beneficiary of the Section 1.2 obligation to incorporate this Exhibit into agreements with other Project Participants, and any rights and defenses associated with the enforcement of that obligation. This Exhibit does not create any third-party beneficiary rights other than those expressly identified in this Section 1.2.1.

### **§ 1.3 Adjustments to the Agreement**

§ 1.3.1 If a Party believes that protocols established pursuant to Sections 3.2 or 4.5, and memorialized in AIA Documents G201–2013 and G202–2013, will result in a change in the Party's scope of work or services warranting an adjustment in compensation, contract sum, schedule or contract time, the Party shall notify the other Party. Failure to provide notice as required in this Section 1.3 shall result in a Party's waiver of any claims for

### **ADDITIONS AND DELETIONS:**

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be incorporated into an agreement between the parties and used in conjunction with AIA Documents G201<sup>™</sup>–2013, Project Digital Data Protocol Form, and G202<sup>™</sup>–2013, Building Information Modeling Protocol Form. It is anticipated that other Project Participants will incorporate a project specific E203–2013 into their agreements, and that the Parties and other Project Participants will set forth the agreed-upon protocols in AIA Documents G201–2013 and G202–2013.

Init.

adjustments in compensation, contract sum, schedule or contract time as a result of the established protocols.

§ 1.3.2 Upon such notice, the Parties shall discuss and negotiate revisions to the protocols or discuss and negotiate any adjustments in compensation, contract sum, schedule or contract time in accordance with the terms of the Agreement.

§ 1.3.3 Notice required under this Section 1.3 shall be provided within thirty days of receipt of the protocols, unless otherwise indicated below:

*(If the Parties require a notice period other than thirty days from receipt of the protocols, indicate the notice period below.)*

#### § 1.4 Definitions

§ 1.4.1 **Building Information Model.** A Building Information Model is a digital representation of the Project, or a portion of the Project, and is referred to in this Exhibit as the "Model," which term may be used herein to describe a Model Element, a single model or multiple models used in the aggregate, as well as other data sets identified in AIA Document G202–2013, Project Building Information Modeling Protocol Form.

§ 1.4.2 **Building Information Modeling.** Building Information Modeling or Modeling means the process used to create the Model.

§ 1.4.3 **Model Element.** A Model Element is a portion of the Model representing a component, system or assembly within a building or building site.

§ 1.4.4 **Level of Development.** The Level of Development (LOD) describes the minimum dimensional, spatial, quantitative, qualitative, and other data included in a Model Element to support the Authorized Uses associated with such LOD.

§ 1.4.5 **Authorized Uses.** The term "Authorized Uses" refers to the permitted uses of Digital Data authorized in the Digital Data and/or Building Information Modeling protocols established pursuant to the terms of this Exhibit.

§ 1.4.6 **Model Element Author.** The Model Element Author is the entity (or individual) responsible for managing and coordinating the development of a specific Model Element to the LOD required for an identified Project milestone, regardless of who is responsible for providing the content in the Model Element. Model Element Authors are to be identified in Section 3.3, Model Element Table, of AIA Document G202–2013.

§ 1.4.7 **Digital Data.** Digital Data is information, including communications, drawings, specifications and designs, created or stored for the Project in digital form. Unless otherwise stated, the term Digital Data includes the Model.

§ 1.4.8 **Confidential Digital Data.** Confidential Digital Data is Digital Data containing confidential or business proprietary information that the transmitting party designates and clearly marks as "confidential."

§ 1.4.9 **Written or In Writing.** In addition to any definition in the Agreement to which this Exhibit is attached, for purposes of this Exhibit and the Agreement, "written" or "in writing" shall mean any communication prepared and sent using a transmission method set forth in this Exhibit, or the protocols developed pursuant to this Exhibit, that permits the recipient to print the communication.

§ 1.4.10 **Written Notice.** In addition to any terms in the Agreement to which this Exhibit is attached, for purposes of this Exhibit and the Agreement, "written notice" shall be deemed to have been duly served if transmitted electronically to an address provided in this Exhibit or the Agreement using a transmission method set forth in this Exhibit that permits the recipient to print the communication.

§ 1.4.11 **Party and Parties.** The terms "Party" and "Parties" refer to the signing parties to the Agreement.

§ 1.4.12 **Project Participant.** A Project Participant is an entity (or individual) providing services, work, equipment or materials on the Project and includes the Parties.

**ARTICLE 2 TRANSMISSION AND OWNERSHIP OF DIGITAL DATA**

§ 2.1 The transmission of Digital Data constitutes a warranty by the Party transmitting Digital Data to the Party receiving Digital Data that the transmitting Party is the copyright owner of the Digital Data, or otherwise has permission to transmit the Digital Data for its use on the Project in accordance with the Authorized Uses of Digital Data established pursuant to the terms of this Exhibit.

§ 2.2 If a Party transmits Confidential Digital Data, the transmission of such Confidential Digital Data constitutes a warranty to the Party receiving such Confidential Digital Data that the transmitting Party is authorized to transmit the Confidential Digital Data. If a Party receives Confidential Digital Data, the receiving Party shall keep the Confidential Digital Data strictly confidential and shall not disclose it to any other person or entity except as set forth in Section 2.2.1.

§ 2.2.1 The receiving Party may disclose Confidential Digital Data as required by law or court order, including a subpoena or other form of compulsory legal process issued by a court or governmental entity. The receiving Party may also disclose the Confidential Digital Data to its employees, consultants or contractors in order to perform services or work solely and exclusively for the Project, provided those employees, consultants and contractors are subject to the restrictions on the disclosure and use of Confidential Digital Data as set forth in this Exhibit.

§ 2.3 By transmitting Digital Data, the transmitting Party does not convey any ownership right in the Digital Data or in the software used to generate the Digital Data. Unless otherwise granted in a separate license, the receiving Party’s right to use, modify, or further transmit Digital Data is specifically limited to designing, constructing, using, maintaining, altering and adding to the Project consistent with the terms of this Exhibit, and nothing contained in this Exhibit conveys any other right to use the Digital Data.

§ 2.4 Where a provision in this Article 2 conflicts with a provision in the Agreement into which this Exhibit is incorporated, the provision in this Article 2 shall prevail.

**ARTICLE 3 DIGITAL DATA PROTOCOLS**

§ 3.1 **Anticipated Types of Digital Data.** The anticipated types of Digital Data to be used on the Project are as follows: *(Indicate below the information on the Project that shall be created and shared in a digital format. If the Parties indicate that Building Information Modeling will be utilized on the Project, the Parties shall also complete Article 4.)*

<b>Anticipated Digital Data</b>	<b>Applicability to the Project</b> <i>(Indicate Applicable or Not Applicable)</i>	<b>Location of Detailed Description</b> <i>(Section 3.1.1 below or in an attachment to this exhibit and identified below)</i>
Project Agreements and Modifications	Applicable	
Project communications	Via Email & BuildingBlok/Revizto	
Architect’s pre-construction submittals	Not Applicable	Via Email & BuildingBlok
Contract Documents	Applicable	
Contractor’s submittals	Applicable	
Subcontractor’s submittals	Applicable	
Modifications	Applicable	
Project payment documents	Applicable	
Notices and claims	Applicable	
Building Information Modeling	Applicable	

*(Row deleted)*

§ 3.1.1 Insert a detailed description of the anticipated Digital Data identified in Section 3.1, if not further described in an attachment to this Exhibit.

See attached Exhibit

§ 3.2 As soon as practical following execution of the Agreement, the Parties shall further describe the uses of Digital Data, and establish necessary protocols governing the transmission and Authorized Uses of Digital Data, in consultation with the other Project Participants that are expected to utilize Digital Data on the Project.

Init.

§ 3.2.1 Unless another Project Participant is identified below, the Architect shall prepare and distribute to the other Project Participants Digital Data protocols for review, revision and approval.  
(If a Project Participant other than the Architect shall be responsible for preparing draft and final Digital Data protocols, identify that Project Participant.)

EDiS Company

§ 3.2.2 The agreed upon Digital Data protocols shall be set forth in AIA Document G201–2013 and each Project Participant shall memorialize their agreement in writing to such Digital Data protocols.

§ 3.2.3 The Parties, together with the other Project Participants, shall review and, if necessary, revise the Digital Data protocols at appropriate intervals as required by the conditions of the Project.

§ 3.3 The Parties shall transmit, use, store and archive Digital Data in accordance with the Digital Data protocols set forth in the latest version of AIA Document G201–2013 agreed to by the Project Participants.

**§ 3.4 Unauthorized Use**

**§ 3.4.1 Prior to Establishment of Digital Data Protocols**

If a Party receives Digital Data prior to the agreement to, and documentation of, the Digital Data protocols in AIA Document G201–2013, that Party is not authorized to use or rely on the Digital Data. Any use of, or reliance on, such Digital Data is at that Party's sole risk and without liability to the other Party and its contractors, consultants, agents and employees.

**§ 3.4.2 Following Establishment of Digital Data Protocols**

Following agreement to, and documentation of, the Digital Data protocols in AIA Document G201–2013, if a Party uses Digital Data inconsistent with the Authorized Uses identified in the Digital Data protocols, that use shall be at the sole risk of the Party using the Digital Data.

**§ 3.5 Digital Data Management**

§ 3.5.1 Centralized electronic document management system use on the Project shall be:

(Check the appropriate box. If the Parties do not check one of the boxes below, the default selection shall be that the Parties will not utilize a centralized electronic document management system on the Project.)

The Parties intend to use a centralized electronic document management system on the Project.

The Parties do not intend to use a centralized electronic document management system on the Project.

§ 3.5.2 If the Project Participants intend to utilize a centralized electronic document management system on the Project, the Project Participants identified in Section 3.5.3 shall be responsible for managing and maintaining such system. The Project Participants responsible for managing and maintaining the centralized electronic document management system shall facilitate the establishment of protocols for transmission, use, storage and archiving of the centralized Digital Data and assist the Project Participants identified in Section 3.2.1 above in preparing Digital Data protocols. Upon agreement to, and documentation of, the Digital Data protocols in AIA Document G201–2013, the Project Participants identified in Section 3.5.3 shall manage and maintain the centralized electronic document management system consistent with the management protocols set forth in the latest version of G201–2013 approved by the Project Participants.

§ 3.5.3 Unless responsibility is assigned to another Project Participant, the Architect shall be responsible for managing and maintaining the centralized electronic document management system. If the responsibility for management and maintenance will be assigned to another Project Participant at an identified Project milestone, indicate below the Project Participant who shall assume that responsibility, and the Project milestone.

(Identify the Project Participant responsible for management and maintenance only if the Parties intend to utilize a centralized electronic document management system on the Project.)

**Responsible Project Participant**

**Project Milestone**

EDiS Company

Init.

## ARTICLE 4 BUILDING INFORMATION MODELING PROTOCOLS

§ 4.1 If the Parties indicate in Section 3.1 that Building Information Modeling will be used on the Project, specify below the extent to which the Parties intend to utilize Building Information Modeling and identify the provisions of this Article 4 governing such use:

- [ ] The Parties shall utilize Building Information Modeling on the Project for the sole purpose of fulfilling the obligations set forth in the Agreement without an expectation that the Model will be relied upon by the other Project Participants. Unless otherwise agreed in writing, any use of, transmission of, or reliance on the Model is at the receiving Party's sole risk. The remaining sections of this Article 4 shall have no force or effect.
- [ ] The Parties shall develop, share, use and rely upon the Model in accordance with Sections 4.2 through 4.10 of this Exhibit.

§ 4.2 **Anticipated Building Information Modeling Scope.** Indicate below the portions of the Project for which Modeling will be used and the anticipated Project Participant responsible for that Modeling.

Project Portion for Modeling	Responsible Project Participant
See AIA G202 Building Information Modeling Protocol Form Matrix	Christopher D. Donahue

§ 4.3 **Anticipated Model Authorized Uses.** Indicate below the anticipated Authorized Uses of the Model for the Project, which Authorized Uses will be agreed upon by the Project Participants and further described for each LOD in AIA Document G202–2013.

§ 4.4 **Ancillary Modeling Activities.** Indicate additional Modeling activities agreed upon by the Parties, but not to be included in AIA Document G202–2013, if any.

*(Describe any Modeling activities, such as renderings, animations, performance simulations, or other similar use, including the anticipated amount and scope of any such Modeling activities.)*

All parties identified in contract scopes and AIA E203 4.2 are required to provide 3D modeled electronic document in Autocad, Navisworks and /or Revit to participate in Building Information Modeling construction coordination process.

§ 4.5 **Modeling Protocols.** As soon as practical following execution of the Agreement, the Parties shall, in consultation with the other Project Participants that are expected to utilize Building Information Modeling on the Project, further describe the Authorized Uses of the Model and establish necessary protocols governing the development of the Model utilizing AIA Document G202–2013.

§ 4.5.1 The Modeling protocols shall address the following:

- .1 Identification of the Model Element Authors;
- .2 Definition of the various LOD for the Model Elements and the associated Authorized Uses for each defined LOD;
- .3 Identification of the required LOD of each Model Element at each identified Project milestone;
- .4 Identification of the construction classification systems to be used on the Project;
- .5 The process by which Project Participants will exchange and share the Model at intervals not reflected in Section 3.3, Model Element Table, of AIA Document G202–2013;
- .6 The process by which the Project Participants will identify, coordinate and resolve changes to the Model;
- .7 Details regarding any anticipated as-designed or as-constructed Authorized Uses for the Model, if required on the Project;
- .8 Anticipated Authorized Uses for facilities management or otherwise, following completion of the Project; and
- .9 Other topics to be addressed by the Modeling protocols: *(Identify additional topics to be addressed by the Modeling Protocols.)*

§ 4.5.2 Unless responsibility is assigned to another Project Participant identified below, the Architect shall prepare and distribute Modeling protocols to the other Project Participants for review, revision and approval.  
(If a Project Participant other than the Architect shall be responsible for preparing draft and final Modeling protocols, identify that Project Participant.)

§ 4.5.3 The agreed upon Modeling protocols shall be set forth in AIA Document G202–2013 and each Project Participant shall memorialize their agreement in writing to such Modeling protocols.

§ 4.5.4 The Parties, together with the other Project Participants, shall review, and if necessary, revise the Modeling protocols at appropriate intervals as required by the conditions of the Project.

§ 4.6 The Parties shall develop, use and rely on the Model in accordance with the Modeling protocols set forth in the latest version of AIA Document G202–2013, which document shall be included in or attached to the Model in a manner clearly accessible to the Project Participants.

#### § 4.7 Unauthorized Use

##### § 4.7.1 Prior to Establishment of Modeling Protocols

If a Party receives any Model prior to the agreement to, and documentation of, the Modeling protocols in AIA Document G202–2013, that Party is not authorized to use, transmit, or rely on the Model. Any use, transmission or reliance is at that Party's sole risk and without liability to the other Party and its contractors, consultants, agents and employees.

##### § 4.7.2 Following Establishment of Modeling Protocols

Following agreement to, and documentation of, the Modeling protocols in AIA Document G202–2013, if a Party uses or relies on the Model inconsistent with the Authorized Uses identified in the Modeling protocols, such use or reliance shall be at the sole risk of the Party using or relying on the Model. A Party may rely on the Model Element only to the extent consistent with the minimum data required for the identified LOD, even if the content of a specific Model Element includes data that exceeds the minimum data required for the identified LOD.

#### § 4.8 Model Management

§ 4.8.1 The requirements for managing the Model include the duties set forth in this Section 4.8. Unless assigned to another Project Participant, the Architect shall manage the Model from the inception of the Project. If the responsibility for Model management will be assigned to another Project Participant, or change at an identified Project milestone, indicate below the identity of the Project Participant who will assume that responsibility, and the Project milestone.

Responsible Project Participant	Project Milestone
---------------------------------	-------------------

Christopher D. Donahue, Project Coordinator	
---	--

§ 4.8.2 **Model Management Protocol Establishment.** The Project Participant responsible for managing the Model, in consultation with the other Project Participants that are expected to utilize Building Information Modeling on the Project, shall facilitate the establishment and revision of Model management protocols, including the following:

- .1 Model origin point, coordinate system, precision, file formats and units
- .2 Model file storage location(s)
- .3 Processes for transferring and accessing Model files
- .4 Naming conventions
- .5 Processes for aggregating Model files from varying software platforms
- .6 Model access rights
- .7 Identification of design coordination and clash detection procedures.
- .8 Model security requirements
- .9 Other: *(Identify additional Model management protocols to be addressed.)*

§ 4.8.3 Ongoing Responsibilities. The Project Participant responsible for managing the Model shall do so consistent with the Model management protocols, which shall also include the following ongoing responsibilities:

- .1 Collect incoming Models:
  - .1 Coordinate submission and exchange of Models
  - .2 Create and maintain a log of Models received
  - .3 Review Model files for consistency with Sections 4.8.2.1 through 4.8.2.5
  - .4 Maintain a record copy of each Model file received
- .2 Aggregate Model files and make them available for Authorized Uses
- .3 Maintain Model Archives and backups consistent with the requirements of Section 4.8.4 below
- .4 Manage Model access rights
- .5 Other: *(Identify additional responsibilities.)*
- .6 Attend and participate in BIM coordination meetings is mandatory, liquidated damages apply for avoiding BIM process.

§ 4.8.4 Model Archives. The individual or entity responsible for Model management as set forth in this Section 4.8 shall compile a Model Archive at the end of each Project milestone and shall preserve it without alteration as a record of Model completion as of that Project milestone.

§ 4.8.4.1 Additional Model Archive requirements, if any, are as follows:

§ 4.8.4.2 The procedures for storing and preserving the Model(s) upon final completion of the Project are as follows:

§ 4.9 Post-Construction Model. The services associated with providing a Model for post-construction use shall only be required if specifically designated in the table below as a Party's responsibility.  
*(Designate below any anticipated post-construction Model and related requirements, the Project Participant responsible for creating or adapting the Model to achieve such uses, and the location of a detailed description of the anticipated scope of services to create or adapt the Model as necessary to achieve such uses.)*

Post-Construction Model	Applicability to Project <i>(Applicable or Not Applicable)</i>	Responsible Project Participant	Location of Detailed Description of Requirements and Services <i>(Section 4.10 below or in an attachment to this exhibit and identified below)</i>
§ 4.9.1 Remodeling	Not Applicable		
§ 4.9.2 Wayfinding and Mapping	Not Applicable		
§ 4.9.3 Asset/FF & E Management	Not Applicable		
§ 4.9.4 Energy Management	Not Applicable		
§ 4.9.5 Space Management	Not Applicable		
§ 4.9.6 Maintenance Management	Not Applicable		

*(Row deleted)*

§ 4.10 Insert a detailed description of the requirements for each Post-Construction Model identified in Section 4.9 and the anticipated services necessary to create each Post-Construction Model, if not further described in an attachment to this Exhibit.

**ARTICLE 5 OTHER TERMS AND CONDITIONS**

Other terms and conditions related to the transmission and use of Digital Data are as follows:

Init.

**Project Digital Data Protocol Form**

---

**PROJECT:** *(Name and address)*

Everett Meredith Middle School  
504 South Broad Street  
Middletown, DE 19709

**PROTOCOL VERSION NUMBER:**

**DATE:** April 1, 2020

**PREPARED BY:** Christopher Donahue/Jackie McKee

**DISTRIBUTION TO:** *(List each individual to whom this protocol is distributed. Include individuals listed in Section 1.2, or reference Section 1.2, along with any additional recipients.)*

---

**TABLE OF ARTICLES**

- 1      **GENERAL PROVISIONS REGARDING USE OF DIGITAL DATA**
- 2      **DIGITAL DATA MANAGEMENT PROTOCOLS**
- 3      **TRANSMISSION AND USE OF DIGITAL DATA**

**ARTICLE 1    GENERAL PROVISIONS REGARDING USE OF DIGITAL DATA**

§ 1.1 List each Project Participant that has incorporated AIA Document E203<sup>™</sup>-2013, Building Information Modeling and Digital Data Exhibit, dated    , into its agreement for the Project:

**ADDITIONS AND DELETIONS:**

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with a project specific AIA Document E203<sup>™</sup>-2013, Building Information Modeling and Digital Data Exhibit, which the Parties will incorporate into their Agreement for the Project.

Project Participant	Discipline

§ 1.2 **Project Participants.** For each Project Participant listed in Section 1.1, identify and provide contact information for the individuals responsible for implementation of the Digital Data protocols.

Project Participant	Individual Responsible	Contact Information

§ 1.3 Terms in this document shall have the same meaning as those in AIA Document E203–2013.

**ARTICLE 2 DIGITAL DATA MANAGEMENT PROTOCOLS**

§ 2.1.1 **Electronic Document Management System.** If, pursuant to Section 3.5.1 of the Project specific version of AIA Document E203–2013, the Project Participants indicated an intent to use a centralized electronic document management system on the Project, the requirements for the centralized electronic document management system are as follows:

*(The requirements for the system shall address, among other things, access to and security of Digital Data.)*

§ 2.1.2 **System Startup Requirements.** Initial training and other startup requirements to be implemented with respect to the use or management of Digital Data, if any, are as follows:

*(Describe in detail any initial training or other startup requirements.)*

§ 2.1.3 **Ongoing System Requirements.** Ongoing training or support programs to be implemented with respect to the use or management of Digital Data, if any, are as follows:

*(Describe in detail any ongoing training or support programs to be implemented.)*

§ 2.2 **Digital Data Storage Requirements.** The procedures and requirements for storing Digital Data during the course of the Project, if any, are as follows:

*(Describe in detail the procedures and requirements for storing Digital Data during the course of the Project.)*

§ 2.3 **Digital Data Archiving Requirements.** The procedures and requirements for archiving and preserving Digital Data during the course of the Project and following final completion of the Project, if any, are as follows:

*(Describe in detail the procedures and requirements for archiving and preserving Digital Data during the course of the Project and following final completion.)*

§ 2.4 Other Digital Data Management protocol requirements, if any, are as follows:

*(Describe in detail any other requirements.)*

Revizto is implemented on this Everett Meredith Middle School project. Revizto is a management software for BIM coordination. All BIM mandatory subcontractors are required to use and complete the coordination through Revizto. License is contractor’s responsibility at \$500.00.

**ARTICLE 3 TRANSMISSION AND USE OF DIGITAL DATA**

§ 3.1 **Digital Data Protocol Table.** The Project Participants shall comply with the data formats, transmission methods and Authorized Uses set forth in the Digital Data Protocol Table below when transmitting or using Digital Data on the Project.

(Complete the Digital Data Protocol Table by entering information in the spaces below. Adapt the table to the needs of the Project by adding, deleting or modifying the listed Digital Data as necessary. Use Section 3.2 Digital Data Protocol Table Definitions and Notes to define abbreviations placed, and to record notes indicated, in the Digital Data Protocol Table.)

Digital Data	Digital Data Format	Transmission Method	Authorized Uses	Note Number (See Sec. 3.2)
§ 3.1.1 Project Agreements and Modifications	PDF	Email		
§ 3.1.2 Project communications	GOTO Meeting	Email & BB		
General communications		Email & BB		
Meeting notices	PDF	Email & BB		
Agendas	PDF	Email & BB		
Minutes	PDF	Email & BB		
Requests for information	BuildingBlok	Email & BB		
Architect's Supplemental Instructions	AIA G201 & Contract	Email & BB		
§ 3.1.3 Architect's pre-construction submittals	PDF & BB	Email & BB		
Schematic Design Documents		Email & BB		
Design Development Documents		Email & BB		
Construction Documents	PDF	Email & BB		
§ 3.1.4 Contract Documents	PDF	Email & BB		
Architect's Drawings	PDF	Email & BB		
Architect's Specifications	PDF	Email & BB		
§ 3.1.5 Contractor's submittals	PDF	Email & BB		
Product data	PDF	Email & BB		
Submitted by Contractor	PDF	Email & BB		
Returned by Architect	PDF	Email & BB		
Shop drawings	PDF	Email & BB		
Submitted by Contractor	PDF	Email & BB		
Returned by Architect	PDF	Email & BB		
§ 3.1.6 Subcontractor's submittals	Physical & PDF BB	Email & BB		
Product data	PDF & BB	Email & BB		
Submitted by Subcontractor	PDF & BB	Email & BB		
Returned by Contractor	BuildingBlok	Email & BB		
Shop drawings	PDF	Email & BB		
Submitted by Subcontractor	PDF	Email & BB		
Returned by Contractor	PDF	Email & BB		
§ 3.1.7 Modifications				
<i>(Rows deleted)</i>				
Architect's order for a minor change in the Work	PDF	Email & BB		
		Email & BB		
Construction Change Directives	PDF	Email & BB		
Change Orders	PDF	Email & BB		
§ 3.1.8 Project payment documents				
§ 3.1.9 Notices and Claims				
§ 3.1.10 Closeout documents	Electronic Navisworks			
Record documents	PDF			
Operations and Maintenance Manual				

*(Row deleted)*

### § 3.2 Digital Data Protocol Table Definitions and Notes

Init.

**Digital Data Format:**

*(Provide required data format, including software version, if applicable.)*

Digital Data Format	Definition
Revit/Navisworks/Revizto	

**Transmission Method:**

*(Below are suggested abbreviations and definitions. Delete, modify or supplement, as necessary.)*

Abbreviation	Definition
CD	Delivered via Compact Disk
EM	Via e-mail
DMS	Centralized Electronic Document Management System

**Authorized Uses of Digital Data:**

*(Below are suggested abbreviations and definitions. Delete, modify or supplement, as necessary.)*

Abbreviation	Definition
I	Integrate (incorporate additional digital data without modifying data received)
M	Modify as required to fulfill obligations for the Project
R	Reproduce and distribute
S	Store and view only

**Notes:**

*(List by number shown on table.)*



# AIA<sup>®</sup> Document G202<sup>™</sup> – 2013

## Project Building Information Modeling Protocol Form

**PROJECT:** *(Name and address)*

Everett Meredith Middle School  
504 South Broad Street  
Middletown, DE 19709

**PROTOCOL VERSION NUMBER:**

**DATE:** April 1, 2020

**PREPARED BY:** Chris Donahue/Jackie McKee

**DISTRIBUTION TO:** *(List each individual to whom this protocol is distributed. Include individuals listed in Section 1.1, or reference Section 1.1, along with any additional recipients.)*

**TABLE OF ARTICLES**

- 1 GENERAL PROVISIONS
- 2 LEVEL OF DEVELOPMENT
- 3 MODEL ELEMENTS

**ARTICLE 1 GENERAL PROVISIONS**

§ 1.1 For each Project Participant that has incorporated the Project specific AIA Document E203<sup>™</sup>-2013, Building Information Modeling and Digital Data Protocol Exhibit, dated April 1, 2020, into its agreement for the Project, identify and provide the contact information for individuals responsible for implementation of the Modeling protocols. If, for any Project Participant, more than one individual will be responsible for implementation of the Modeling protocols, list each individual separately and describe the unique Modeling Role assigned to each individual.

**ADDITIONS AND DELETIONS:**

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This document is intended to be used in conjunction with a Project specific AIA Document E203<sup>™</sup>-2013, Building Information Modeling and Digital Data Exhibit, which the Parties will incorporate into their agreement for the Project, and a Project specific AIA Document G201<sup>™</sup>-2013, Project Digital Data Protocol Form.

Modeling Role	Project Participant	Individual Responsible	Contact Information
Project Coordinator	EDiS BIM Services	Christopher Donahue	EDiS Company 110 S Poplar Street Wilmington, De 19801 302-421-2963 <a href="mailto:cdonahue@ediscompany.com">cdonahue@ediscompany.com</a>

§ 1.2 This document establishes the Modeling protocols for the Project. For purposes of these protocols, the Model is comprised of the following information and other data sets:  
(Indicate disciplines, separate models, and other data that will be included within the Model and governed by the Modeling protocols.)

§ 1.3 **Collaboration Protocols.** The Project Participants’ protocols for the collaborative utilization of the Model, if any, including communications protocols, a collaboration meeting schedule and colocation requirements, are as follows:

§ 1.4 **Technical Requirements.** The technical requirements relating to the utilization of Building Information Modeling, including specific software and hardware requirements are as follows:

§ 1.5 **Training and Support.-NOT USED**

§ 1.6 **Model Standard.** The Model shall be developed in accordance with the following Model Standard, if any:

**§ 1.7 Model Management Protocols and Processes**

The following Model Management Protocols and Processes shall apply to the Project only if specifically designated in the table below as being applicable.

(Designate the Model Management Protocols and Processes applicable to the Project in the second column of the table below. In the third column, indicate whether the detailed description of the Model Management Protocol or Process is located in Section 1.8 or in an attached exhibit. If in an exhibit, identify the exhibit.)

Model Management Protocols and Processes	Applicability to Project (Applicable or Not Applicable)	Location of Detailed Description (Section 1.8 below or in an attachment to this exhibit identified below)
§ 1.7.1 Model origin point, coordinate system, precision, file formats and units	Applicable	0, 0, 0
§ 1.7.2 Model file storage location(s)	Applicable	EDiS BIM Services
§ 1.7.3 Processes for transferring and accessing Model files	Applicable	Drop Box & BuildingBlok
§ 1.7.4 Naming conventions	Applicable	EDiS Standard
§ 1.7.5 Processes for aggregating Model files from varying software platforms		Autodesk CAD MEP & Navisworks& Revizto
§ 1.7.6 Model access rights	N/A	
§ 1.7.7 Design coordination and clash detection procedures.	Applicable	EDiS
§ 1.7.8 Model security requirements	Applicable	Confidential

Init.

§ 1.8 Insert a description of each Model Management Protocol and Process identified in Section 1.7, if not further described in an exhibit attached to this document:

See attached documents

§ 1.9 Terms in this document shall have the same meaning as those in AIA Document E203–2013.

## ARTICLE 2 LEVEL OF DEVELOPMENT

§ 2.1 The Level of Development (LOD) descriptions, included in Section 2.2 through Section 2.6 below, identify the specific minimum content requirements and associated Authorized Uses for each Model Element at five progressively detailed levels of completeness. The Parties shall utilize the five LOD descriptions in completing the Model Element Table at Section 3.3.

### § 2.2 LOD 100

§ 2.2.1 **Model Element Content Requirements.** The Model Element may be graphically represented in the Model with a symbol or other generic representation, but does not satisfy the requirements for LOD 200. Information related to the Model Element (i.e., cost per square foot, tonnage of HVAC, etc.) can be derived from other Model Elements.

#### § 2.2.2 Authorized Uses

§ 2.2.2.1 **Analysis.** The Model Element may be analyzed based on volume, area and orientation by application of generalized performance criteria assigned to other Model Elements.

§ 2.2.2.2 **Cost Estimating.** The Model Element may be used to develop a cost estimate based on current area, volume or similar conceptual estimating techniques (e.g., square feet of floor area, condominium unit, hospital bed, etc.).

§ 2.2.2.3 **Schedule.** The Model Element may be used for Project phasing and determination of overall Project duration.

§ 2.2.2.4 **Other Authorized Uses.** Additional Authorized Uses of the Model Element developed to LOD 100, if any, are as follows:

### § 2.3 LOD 200

§ 2.3.1 **Model Element Content Requirements.** The Model Element is graphically represented within the Model as a generic system, object, or assembly with approximate quantities, size, shape, location, and orientation. Non-graphic information may also be attached to the Model Element.

#### § 2.3.2 Authorized Uses

§ 2.3.2.1 **Analysis.** The Model Element may be analyzed for performance of selected systems by application of generalized performance criteria assigned to the representative Model Elements.

§ 2.3.2.2 **Cost Estimating.** The Model Element may be used to develop cost estimates based on the approximate data provided and quantitative estimating techniques (e.g., volume and quantity of elements or type of system selected).

§ 2.3.2.3 **Schedule.** The Model Element may be used to show ordered, time-scaled appearance of major elements and systems.

§ 2.3.2.4 **Coordination.** The Model Element may be used for general coordination with other Model Elements in terms of its size, location and clearance to other Model Elements.

§ 2.3.2.5 **Other Authorized Uses.** Additional Authorized Uses of the Model Element developed to LOD 200, if any, are as follows:

## § 2.4 LOD 300

§ 2.4.1 **Model Element Content Requirements.** The Model Element is graphically represented within the Model as a specific system, object or assembly in terms of quantity, size, shape, location, and orientation. Non-graphic information may also be attached to the Model Element.

## § 2.4.2 Authorized Uses

§ 2.4.2.1 **Analysis.** The Model Element may be analyzed for performance of selected systems by application of specific performance criteria assigned to the representative Model Element.

§ 2.4.2.2 **Cost Estimating.** The Model Element may be used to develop cost estimates suitable for procurement based on the specific data provided.

§ 2.4.2.3 **Schedule.** The Model Element may be used to show ordered, time-scaled appearance of detailed elements and systems.

§ 2.4.2.4 **Coordination.** The Model Element may be used for specific coordination with other Model Elements in terms of its size, location and clearance to other Model Elements including general operation issues.

§ 2.4.2.5 **Other Authorized Uses.** Additional Authorized Uses of the Model Element developed to LOD 300, if any, are as follows:

## § 2.5 LOD 400

§ 2.5.1 **Model Element Content Requirements.** The Model Element is graphically represented within the Model as a specific system, object or assembly in terms of size, shape, location, quantity, and orientation with detailing, fabrication, assembly, and installation information. Non-graphic information may also be attached to the Model Element.

## § 2.5.2 Authorized Uses

§ 2.5.2.1 **Analysis.** The Model Element may be analyzed for performance of systems by application of actual performance criteria assigned to the Model Element.

§ 2.5.2.2 **Cost Estimating.** Costs are based on the actual cost of the Model Element at buyout.

§ 2.5.2.3 **Schedule.** The Model may be used to show ordered, time-scaled appearance of detailed specific elements and systems including construction means and methods.

§ 2.5.2.4 **Coordination.** The Model Element may be used for coordination with other Model Elements in terms of its size, location and clearance to other Model Elements, including fabrication, installation and detailed operation issues.

§ 2.5.2.5 **Other Authorized Uses.** Additional Authorized Uses of the Model Element developed to LOD 400, if any, are as follows:

## § 2.6 LOD 500

§ 2.6.1 **Model Element Content Requirements.** The Model Element is a field verified representation in terms of size, shape, location, quantity, and orientation. Non-graphic information may also be attached to the Model Elements.

§ 2.6.2 **Authorized Uses.** Specific Authorized Uses of the Model Element developed to LOD 500, if any, are as follows:

## ARTICLE 3 MODEL ELEMENTS

### § 3.1 Reliance on Model Elements

§ 3.1.1 At any particular Project milestone, a Project Participant may rely on the accuracy and completeness of a Model Element only to the extent consistent with the minimum data required for the Model Element's LOD for that Project

Init.

/

milestone as identified below in the Model Element Table, even if the content of a specific Model Element includes data that exceeds the minimum data required for the identified LOD.

**§ 3.1.2 Coordination and Model Refinement**

Where conflicts are found in the Model, regardless of the phase of the Project or LOD, the Project Participant that identifies the conflict shall promptly notify the Model Element Authors and the Project Participant identified in AIA Document E203–2013 Section 4.8 as being responsible for Model management. Upon such notification, the Model Element Author(s) shall act promptly to evaluate, mitigate and resolve the conflict in accordance with the processes established in Section 1.7.7, if applicable.

Init.

/



Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
A1020.15 Bored Piles													
A1020.20 Caissons													
A1020.30 Special Foundation Walls													
A1020.40 Foundation Anchors													
A1020.50 Underpinning (if required)													
A1020.60 Raft Foundations													
A1020.70 Pile Caps													
A1020.80 Grade Beams													
<b>A20 SUBGRADE ENCLOSURES</b>													
<b>A2010 Walls for Subgrade Enclosures</b>													
A2010.10 Subgrade Enclosure Wall Construction													
A2010.20 Subgrade Enclosure Wall Interior Skin													
A2010.90 Subgrade Enclosure Wall Supplementary Components													
<b>A40 SLABS-ON-GRADE</b>													
A4010 Standard Slabs-on-Grade													
A4020 Structural Slabs-on-Grade													
A4030 Slab Trenches													
A4040 Pits and Bases													
<b>A4090 Slab-On-Grade Supplementary Components</b>													
A4090.10 Perimeter Insulation													
A4090.20 Vapor Retarder													
A4090.30 Waterproofing													
A4090.50 Mud Slab													
A4090.60 Subbase Layer													
<b>A60 WATER AND GAS MITIGATION</b>													
<b>A6010 Building Subdrainage</b>													
A6010.10 Foundation Drainage													
A6010.20 Underslab Drainage													
<b>A6020 Off-Cassing Mitigation</b>													
A6020.10 Radon Mitigation													
A6020.50 Methane Mitigation													

**§ 3.3 Model Element Table**

Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management			Construction Management			Construction Management			Construction Management			Construction Management			Notes (See Sec 3.4)
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.  Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."  NOTE: LODs must be adapted for the unique characteristics of each Project.																
<b>A90 SUBSTRUCTURE RELATED ACTIVITIES</b>																
<b>A9010 Substructure Excavation</b>																
A9010.10 Backfill and Compaction																
<b>A9020 Construction Dewatering</b>																
<b>A9030 Excavation Support</b>																
A9030.10 Anchor Tiebacks																
A9030.20 Cofferdams																
A9030.40 Cribbing and Walers																
A9030.60 Ground Freezing																
A9030.70 Slurry Walls																
<b>A9040 Soil Treatment</b>																
<b>B SHELL</b>																
<b>B10 SUPERSTRUCTURE</b>																
<b>B1010 Floor Construction</b>	350	A-05														
B1010.10 Floor Structural Frame (& K-Joist)	350	A-05														
B1010.20 Floor Decks, Slabs, and Toppings	350	A-05														
B1010.30 Balcony Floor Construction	350	A-05														
B1010.40 Mezzanine Floor Construction	350	A-05														
B1010.50 Ramps, Steel & Construction	350	A-05														
B1010.90 Floor Construction Supplementary Components	350	A-05														
<b>B1020 Roof Construction</b>																
B1020.10 Roof Structural Frame (& K-Joist)	350	A-05														
B1020.20 Roof Decks, Slabs, and Sheathing	350	A-05														
B1020.30 Canopy Construction	350	A-05														
B1020.90 Roof Construction Supplementary Components	350	A-05														
<b>B1080 Stairs</b>																
B1080.10 Stair Construction	350	A-05														
B1080.30 Stair Soffits	350	A-05														

AIA Document G202™ – 2013 (rev. 10/13). Copyright © 2013 by The American Institute of Architects. All rights reserved. **WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.** This document was produced by AIA software at 09:51:25 ET on 04/20/2020 under Order No.8744984688 which expires on 01/17/2021, and is not for resale.  
 User Notes: (1482777678)

Model Elements Utilizing CSI UniFormat™	Construction Management		Construction Management		Construction Management		Construction Management		Construction Management		Notes	
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD		MEA
B1080.50 Stair Railings	350	A-05										
B1080.60 Fire Escapes												
B1080.70 Metal Walkways												
B1080.80 Ladders												
<b>B20 EXTERIOR VERTICAL ENCLOSURES</b>												
<b>B2010 Exterior Walls</b>												
B2010.10 Exterior Wall Veneer												
B2010.20 Exterior Wall Construction												
B2010.30 Exterior Wall Interior Skin												
B2010.40 Fabricated Exterior Wall Assemblies												
B2010.50 Parapets												
B2010.60 Equipment Screens												
B2010.80 Exterior Wall Supplementary Components												
B2010.90 Exterior Wall Opening Supplementary Components												
<b>B2020 Exterior Windows</b>												
B2020.10 Exterior Operating Windows												
B2020.20 Exterior Fixed Windows												
B2020.30 Exterior Window Wall (curtain wall)												
B2020.50 Exterior Special Function Windows												
<b>B2050 Exterior Doors and Grilles</b>												
B2050.10 Exterior Entrance Doors												
B2050.20 Exterior Utility Doors												
B2050.30 Exterior Oversize Doors												
B2050.40 Exterior Special Function Doors												
B2050.60 Exterior Grilles												
B2050.70 Exterior Gates												
B2050.90 Exterior Door Supplementary Components												
<b>B2070 Exterior Louvers and Vents</b>												
B2070.10 Exterior Louvers												
B2070.50 Exterior Vents												
<b>B2080 Exterior Wall Appurtenances</b>												
B2080.10 Exterior Fixed Grilles and Screens												

**§ 3.3 Model Element Table**  
Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.													
Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."													
NOTE: LODs must be adapted for the unique characteristics of each Project.													
<b>B2080.30</b> Exterior Opening Protection Devices													
<b>B2080.50</b> Exterior Balcony Walls and Railings													
<b>B2080.70</b> Exterior Fabrications													
<b>B2080.80</b> Bird Control Devices													
<b>B2090</b> Exterior Wall Specialties													
<b>B30</b> EXTERIOR HORIZONTAL ENCLOSURES													
<b>B3010</b> Roofing													
<b>B3010.10</b> Steep Slope Roofing													
<b>B3010.50</b> Low-Slope Roofing													
<b>B3010.70</b> Canopy Roofing													
<b>B3010.90</b> Roofing Supplementary Components													
<b>B3020</b> Roof Appurtenances													
<b>B3020.10</b> Roof Accessories													
<b>B3020.30</b> Roof Specialties (Limit Lines), Roof Hatches & Smoke													
<b>B3020.70</b> Rainwater Management													
<b>B3040</b> Traffic Bearing Horizontal Enclosures													
<b>B3040.10</b> Traffic Bearing Coatings													
<b>B3040.30</b> Horizontal Waterproofing Membrane													
<b>B3040.50</b> Wear Surfaces													
<b>B3040.90</b> Horizontal Enclosure Supplementary Components													
<b>B3060</b> Horizontal Openings													
<b>B3060.10</b> Roof Windows and Skylights													
<b>B3060.50</b> Vents and Hatches													
<b>B3060.90</b> Horizontal Opening Supplementary Components													
<b>B3080</b> Overhead Exterior Enclosures													
<b>B3080.10</b> Exterior Ceilings													
<b>B3080.20</b> Exterior Soffits													
<b>B3080.30</b> Exterior Bulkheads													
<b>C INTERIORS</b>													
<b>C10</b> INTERIOR CONSTRUCTION													
<b>C1010</b> Interior Partitions													

Model Elements Utilizing CSI UniFormat™	Construction Management			Notes									
	LOD	MEA	Notes										
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.  Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."  NOTE: LODs must be adapted for the unique characteristics of each Project.													(See Sec 3.4)
C1010.10 Interior Fixed Partitions													
C1010.20 Interior Glazed Partitions													
C1010.40 Interior Demountable Partitions													
C1010.50 Interior Operable Partitions													
C1010.70 Interior Screens													
C1010.90 Interior Partition Supplementary Components													
<b>C1020 Interior Windows</b>													
C1020.10 Interior Operating Windows													
C1020.20 Interior Fixed Windows													
C1020.50 Interior Special Function Windows													
C1020.90 Interior Window Supplementary Components													
<b>C1030 Interior Doors</b>													
C1030.10 Interior Swinging Doors (All Door Types)													
C1030.20 Interior Entrance Doors (All Door Types)													
C1030.25 Interior Sliding Doors (All Door Types)													
C1030.30 Interior Folding Doors (All Door Types)													
C1030.40 Interior Coiling Doors (All Door Types)													
C1030.50 Interior Panel Doors (All Door Types)													
C1030.70 Interior Special Function Doors													
C1030.80 Interior Access Doors and Panels													
C1030.90 Interior Door Supplementary Components													
<b>C1040 Interior Grilles and Gates</b>													
C1040.10 Interior Grilles													
C1040.50 Interior Gates													
<b>C1060 Raised Floor Construction</b>													
C1060.10 Access Flooring													
C1060.30 Platform/Stage Floors													
<b>C1070 Suspended Ceiling Construction</b>													
C1070.10 Acoustical Suspended Ceilings													
C1070.20 Suspended Plaster and Gypsum Board Ceilings													
C1070.50 Specialty Suspended Ceilings													

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
C1070.70 Special Function Suspended Ceilings													
C1070.90 Ceiling Suspension Components													
<b>C1090 Interior Specialties</b>													
C1090.10 Interior Railings and Handrails													
C1090.15 Interior Louvers													
C1090.20 Information Specialties													
C1090.25 Compartments and Cubicles (Toilet Partitions)													
C1090.30 Service Walls													
C1090.35 Wall and Door Protection													
C1090.40 Toilet, Bath, and Laundry Accessories													
C1090.45 Interior Gas Lighting													
C1090.50 Fireplaces and Stoves													
C1090.60 Safety Specialties													
C1090.70 Storage Specialties													
C1090.90 Other Interior Specialties													
<b>C20 INTERIOR FINISHES</b>													
<b>C200 Wall Finishes</b>													
C200.10 Tile Wall Finish													
C200.20 Wall Paneling													
C200.30 Wall Coverings													
C200.35 Wall Carpeting													
C200.50 Stone Facing													
C200.60 Special Wall Surfacing													
C200.70 Wall Painting and Coating													
C200.80 Acoustical Wall Treatment													
C200.90 Wall Finish Supplementary Components													
<b>C200 Interior Fabrications</b>													
<b>C200 Flooring</b>													
C200.10 Flooring Treatment													
C200.20 Tile Flooring													
C200.30 Specialty Flooring													
C200.40 Masonry Flooring													

**§ 3.3 Model Element Table**  
 Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
C2030.45 Wood Flooring													
C2030.50 Resilient Flooring													
C2030.60 Terrazzo Flooring													
C2030.70 Fluid-Applied Flooring													
C2030.75 Carpeting													
C2030.80 Athletic Flooring													
C2030.85 Entrance Flooring													
C2030.90 Flooring Supplementary Components													
<b>C2040 Stair Finishes</b>													
C2040.20 Tile Stair Finish													
C2040.40 Masonry Stair Finish													
C2040.45 Wood Stair Finish													
C2040.50 Resilient Stair Finish													
C2040.60 Terrazzo Stair Finish													
C2040.75 Carpeted Stair Finish													
<b>C2050 Ceiling Finishes</b>													
C2050.10 Plaster and Gypsum Board Finish													
C2050.20 Ceiling Paneling													
C2050.70 Ceiling Painting and Coating													
C2050.80 Acoustical Ceiling Treatment													
C2050.90 Ceiling Finish Supplementary Components													
<b>C2090 Interior Finish Schedules</b>													
<b>D SERVICES</b>													
<b>D10 CONVEYING</b>													
<b>D1010 Vertical Conveying Systems</b>													
D1010.10 Elevators													
D1010.20 Lifts													
D1010.30 Escalators													
D1010.50 Dumbwaiters													
D1010.60 Moving Ramps													
<b>D1030 Horizontal Conveying</b>													
D1030.10 Moving Walks													

**§ 3.3 Model Element Table**

Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

§ 3.3 Model Element Table	Construction Management			Construction Management			Construction Management			Construction Management			Notes (See Sec 3.4)
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.													
Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."													
NOTE: LODs must be adapted for the unique characteristics of each Project.													
<b>Model Elements Utilizing CSI UniFormat™</b>													
D1030.30 Turntables													
D1030.50 Passenger Loading Bridges													
D1030.70 People Movers													
<b>D1050 Material Handling</b>													
D1050.10 Cranes													
D1050.20 Hoists													
D1050.30 Derricks													
D1050.40 Conveyors													
D1050.50 Baggage Handling Equipment													
D1050.60 Chutes													
D1050.70 Pneumatic Tube Systems													
<b>D1080 Operable Access Systems</b>													
D1080.10 Suspended Scaffolding													
D1080.20 Rope Climbers													
D1080.30 Elevating Platforms (Pit Lift)													
D1080.40 Powered Scaffolding													
D1080.50 Building Envelope Access													
<b>D20 PLUMBING</b>													
<b>D2010 Domestic Water Distribution</b>													
D2010.10 Facility Potable-Water Storage Tanks	350	A-27											
D2010.20 Domestic Water Equipment	350	A-27											
D2010.40 Domestic Water Piping	350	A-27											
D2010.60 Plumbing Fixtures	350	A-27											
D2010.90 Domestic Water Distribution Supplementary	350	A-27											
<b>D2020 Sanitary Drainage</b>													
D2020.10 Sanitary Sewerage Equipment	350	A-27											
D2020.30 Sanitary Sewerage Piping	350	A-27											
D2020.90 Sanitary Drainage Supplementary Components	350	A-27											
<b>D2030 Building Support Plumbing Systems</b>													
D2030.10 Stormwater Drainage Equipment	350	A-27											

AIA Document G202™ – 2013 (rev. 10/13). Copyright © 2013 by The American Institute of Architects. All rights reserved. **WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.** This document was produced by AIA software at 09:51:29 ET on 04/20/2020 under Order No.8744984688 which expires on 01/17/2021, and is not for resale.

User Notes: (1482777678)

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
D2030.20 Stormwater Drainage Piping	350	A-27											
D2030.30 Facility Stormwater Drains	350	A-27											
D2030.60 Gray Water Systems	350	A-27											
D2030.90 Building Support Plumbing System Supplementary	350	A-27											
<b>D2050 General Service Compressed-Air</b>													
<b>D2060 Process Support Plumbing Systems</b>													
D2060.10 Compressed-Air Systems													
D2060.20 Vacuum Systems													
D2060.30 Gas Systems	350	A-27											
D2060.40 Chemical-Waste Systems													
D2060.50 Processed Water Systems													
D2060.90 Process Support Plumbing System Supplementary Components													
<b>D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)</b>													
<b>D3010 Facility Fuel Systems</b>													
D3010.10 Fuel Piping													
D3010.30 Fuel Pumps													
D3010.50 Fuel Storage Tanks													
<b>D3020 Heating Systems</b>													
D3020.10 Heat Generation	350	A-28											
D3020.30 Thermal Heat Storage													
D3020.70 Decentralized Heating Equipment													
D3020.90 Heating System Supplementary Components	350	A-28											
<b>D3030 Cooling Systems</b>													
D3030.10 Central Cooling	350	A-28											
D3030.30 Evaporative Air-Cooling	350	A-28											
D3030.50 Thermal Cooling Storage	350	A-28											
D3030.70 Decentralized Cooling													
D3030.90 Cooling System Supplementary Components	350	A-28											
<b>D3050 Facility HVAC Distribution Systems</b>													

**§ 3.3 Model Element Table**

Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.  Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."  NOTE: LODs must be adapted for the unique characteristics of each Project.													(See Sec 3.4)
D3050.10 Facility Hydronic Distribution	350	A-28											
D3050.30 Facility Steam Distribution	350	A-28											
D3050.50 HVAC Air Distribution	350	A-28											
D3050.90 Facility Distribution Systems Supplementary Components	350	A-28											
<b>D3060 Ventilation</b>													
D3060.10 Supply Air	350	A-28											
D3060.20 Return Air	350	A-28											
D3060.30 Exhaust Air	350	A-28											
D3060.40 Outside Air	350	A-28											
D3060.60 Air-to-Air Energy Recovery	350	A-28											
D3060.70 HVAC Air Cleaning	350	A-28											
D3060.90 Ventilation Supplementary Components	350	A-28											
<b>D3070 Special Purpose HVAC Systems</b>													
D3070.10 Snow Melting													
<b>D40 FIRE PROTECTION</b>													
<b>D4010 Fire Suppression</b>													
D4010.10 Water-Based Fire-Suppression (MANDATORY)	350	A-26											
D4010.50 Fire-Extinguishing (MANDATORY)	350	A-26											
D4010.90 Fire Suppression Supplementary Components	350	A-26											
D4011 Spray Fireproofing	350	A-26											
<b>D4030 Fire Protection Specialties</b>													
D4030.10 Fire Protection Cabinets	350	A-26											
D4030.30 Fire Extinguishers	350	A-26											
D4030.50 Breathing Air Replenishment Systems													
D4030.70 Fire Extinguisher Accessories													
<b>D50 ELECTRICAL</b>													
D5010 Facility Power Generation													

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
D5010.10 Packaged Generator Assemblies	305	A-30											
D5010.20 Battery Equipment	305	A-30											
D5010.30 Photovoltaic Collectors	305	A-30											
D5010.40 Fuel Cells	305	A-30											
D5010.60 Power Filtering and Conditioning	305	A-30											
D5010.70 Transfer Switches	305	A-30											
D5010.90 Facility Power Generation Supplementary Components	305	A-30											
<b>D5020 Electrical Service and Distribution</b>													
D5020.10 Electrical Service	305	A-30											
D5020.30 Power Distribution	305	A-30											
D5020.70 Facility Grounding	305	A-30											
D5020.90 Electrical Service and Distribution Supplementary Components	305	A-30											
<b>D5030 General Purpose Electrical Power</b>													
D5030.10 Branch Wiring System	305	A-30											
D5030.50 Wiring Devices	305	A-30											
D5030.90 General Purpose Electrical Power Supplementary Components	305	A-30											
<b>D5040 Lighting</b>													
D5040.10 Lighting Control (Main Panels)													
D5040.20 Branch Wiring for Lighting													
D5040.50 Lighting Fixtures													
D5040.90 Lighting Supplementary Components													
<b>D5080 Miscellaneous Electrical Systems</b>													
D5080.10 Lightning Protection	305	A-30											
D5080.40 Cathodic Protection													
D5080.70 Transient Voltage Suppression													
D5080.90 Miscellaneous Electrical Systems Supplementary Components													

**§ 3.3 Model Element Table**  
Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.  Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."  NOTE: LODs must be adapted for the unique characteristics of each Project.  Model Elements Utilizing CSI UniFormat™													(See Sec 3.4)
<b>D60 COMMUNICATIONS</b>													
D6010 Data Communications	305	A-30											
D6010.10 Data Communications Network Equipment (Wire Rack)	305	A-30											
D6020.20 Data Communications Hardware	305	A-30											
D6010.30 Data Communications Peripheral Data Equipment	305	A-30											
D6010.50 Data Communications Software													
D6010.60 Data Communication Program and Integration Services													
<b>D6020 Voice Communications</b>													
D6020.10 Voice Communications Switching and Routing Equipment	305	A-30											
D6020.20 Voice Communications Terminal Equipment													
D6020.30 Voice Communications Messaging													
D6020.40 Call Accounting													
D6020.50 Call Management													
<b>D6030 Audio-Video Communication</b>													
D6030.10 Audio-Video Systems													
D6030.50 Electronic Digital Systems													
<b>D6060 Distributed Communications and Monitoring</b>													
D6060.10 Distributed Audio-Video Communications Systems													
D6060.30 Healthcare Communications and Monitoring													
D6060.50 Distributed Systems													
<b>D6090 Communications Supplementary Components</b>													
D6090.10 Supplementary Components													
<b>D70 ELECTRONIC SAFETY AND SECURITY</b>													
<b>D7010 Access Control and Intrusion Detection</b>													
D7010.10 Access Control													
D7010.50 Intrusion Detection													
<b>D7030 Electronic Surveillance</b>													
D7030.10 Video Surveillance													
D7030.50 Electronic Personal Protection													
<b>D7050 Detection and Alarm</b>													

AIA Document G202™ - 2013 (rev. 10/13), Copyright © 2013 by The American Institute of Architects. All rights reserved. **WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.** This document was produced by AIA software at 09:51:25 ET on 04/20/2020 under Order No.8744984688 which expires on 01/17/2021, and is not for resale. (1482777678)

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
D7050.10 Fire Detection and Alarm													
D7050.20 Radiation Detection and Alarm													
D7050.30 Fuel-Gas Detection and Alarm													
D7050.40 Fuel-Oil Detection and Alarm													
D7050.50 Refrigeration Detection and Alarm													
D7050.60 Water Intrusion Detection and Alarm													
<b>D7070 Electronic Monitoring and Control</b>													
D7070.10 Electronic Detention Monitoring and Control													
<b>D7090 Electronic Safety and Security Supplementary Components</b>													
D7090.10 Supplementary Components													
<b>D80 INTEGRATED AUTOMATION</b>													
<b>D8010 Integrated Automation Facility Controls</b>													
D8010.10 Integrated Automation Control of Equipment													
D8010.20 Integrated Automation Control of Conveying Equipment													
D8010.30 Integrated Automation Control of Fire-Suppression Systems													
D8010.40 Integrated Automation Control of Plumbing Systems													
D8010.50 Integrated Automation Control of HVAC Systems													
D8010.60 Integrated Automation Control of Electrical Systems													
D8010.70 Integrated Automation Control of Communication Systems													
D8010.80 Integrated Automation Control of Electronic Safety and Security Systems													
D8010.90 Integrated Automation Supplementary Components													
<b>E EQUIPMENT AND FURNISHINGS</b>													
<b>E10 EQUIPMENT</b>													
<b>E1010 Vehicle and Pedestrian Equipment</b>													
E1010.10 Vehicle Servicing Equipment													
E1010.10 Interior Parking Control Equipment													
E1010.10 Loading Dock Equipment													

**§ 3.3 Model Element Table**  
Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

**§ 3.3 Model Element Table**

Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A – Architect," or "C – Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
E1010.10 Interior Pedestrian Control Equipment													
<b>E1030 Commercial Equipment</b>													
E1030.10 Mercantile and Service Equipment													
E1030.20 Vault Equipment													
E1030.25 Teller and Service Equipment													
E1030.30 Refrigerated Display Equipment													
E1030.35 Commercial Laundry and Dry Cleaning Equipment													
E1030.40 Maintenance Equipment													
E1030.50 Hospitality Equipment													
E1030.55 Unit Kitchens													
E1030.60 Photographic Processing Equipment													
E1030.70 Postal, Packaging, and Shipping Equipment													
E1030.75 Office Equipment													
E1030.80 Foodservice Equipment (Grease Interceptor)													
<b>E1040 Institutional Equipment</b>													
E1040.10 Educational and Scientific Equipment													
E1040.20 Healthcare Equipment													
E1040.40 Religious Equipment													
E1040.60 Security Equipment													
E1040.70 Detention Equipment													
<b>E1060 Residential Equipment</b>													
E1060.10 Residential Appliances													
E1060.50 Retractable Stairs													
E1060.70 Residential Ceiling Fans													
<b>E1070 Entertainment and Recreational Equipment</b>													
E1070.10 Theater and Stage Equipment													
E1070.20 Musical Equipment													
E1070.50 Athletic Equipment													
E1070.60 Recreational Equipment													
<b>E1090 Other Equipment</b>													
E1090.10 Solid Waste Handling Equipment													
E1090.30 Agricultural Equipment													

**§ 3.3 Model Element Table**  
 Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
E1090.40 Horticultural Equipment													
E1090.60 Decontamination Equipment													
<b>E20 FURNISHINGS</b>													
<b>E2010 Fixed Furnishings</b>													
E2010.10 Fixed Art													
E2010.20 Window Treatments													
E2010.30 Casework													
E2010.70 Fixed Multiple Seating													
E2010.90 Other Fixed Furnishings													
<b>E2050 Movable Furnishings</b>													
E2050.10 Movable Art													
E2050.30 Furniture													
E2050.40 Accessories													
E2050.60 Movable Multiple Seating													
E2050.90 Other Movable Furnishings													
<b>F SPECIAL CONSTRUCTION AND DEMOLITION</b>													
<b>F10 SPECIAL CONSTRUCTION</b>													
<b>F1010 Integrated Construction</b>													
F1010.10 Building Modules													
F1010.50 Manufactured/Fabricated Rooms													
F1010.70 Modular Mezzanines													
<b>F1020 Special Structures</b>													
F1020.10 Fabric Structures													
F1020.20 Space Frames													
F1020.30 Geodesic Structures													
F1020.40 Manufacturer-Engineered Structures Trusses													
F1020.60 Manufactured Canopies													
F1020.65 Rammed Earth Construction													
F1020.70 Towers													
<b>F1030 Special Function Construction</b>													
F1030.10 Sound and Vibration Control													
F1030.30 Seismic Control													

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
F1030.50 Radiation Protection													
<b>F1050 Special Facility Components</b>													
F1050.10 Pools													
F1050.20 Interior Fountains													
F1050.30 Interior Water Features													
F1050.40 Aquariums													
F1050.50 Amusement Park Structures and Equipment													
F1050.60 Ice Rinks													
F1050.70 Animal Containment													
<b>F1060 Athletic and Recreational Special Construction</b>													
F1060.10 Indoor Soccer Boards													
F1060.20 Safety Netting													
F1060.30 Arena Football Boards													
F1060.40 Floor Sockets													
F1060.50 Athletic and Recreational Court Walls													
F1060.60 Demountable Athletic Surfaces													
<b>F1080 Special Instrumentation</b>													
F1080.10 Stress Instrumentation													
F1080.20 Seismic Instrumentation													
F1080.40 Meteorological Instrumentation													
F1080.80 Earth Movement Monitoring													
<b>F20 FACILITY REMEDIATION</b>													
<b>F2010 Hazardous Materials Remediation</b>													
F2010.10 Transportation and Disposal of Hazardous Materials													
F2010.20 Asbestos Remediation													
F2010.30 Lead Remediation													
F2010.40 Polychlorinated Biphenyl Remediation													
F2010.50 Mold Remediation													
<b>F30 DEMOLITION</b>													
<b>F3010 Structure Demolition</b>													
F3010.10 Building Demolition													

**§ 3.3 Model Element Table**  
Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes
	LOD	MEA	Notes										
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.													(See Sec 3.4)
Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."													
NOTE: LODs must be adapted for the unique characteristics of each Project.													
<b>F3010.30</b> Tower Demolition													
<b>F3010.50</b> Bridge Demolition													
<b>F3010.70</b> Dam Demolition													
<b>F3030 Selective Demolition</b>													
<b>F3030.10</b> Selective Building Demolition													
<b>F3030.30</b> Selective Interior Demolition													
<b>F3030.50</b> Selective Bridge Demolition													
<b>F3030.70</b> Selective Historic Demolition													
<b>F3030 Structure Moving</b>													
<b>F3030.10</b> Structure Relocation													
<b>F3030.30</b> Structure Raising													
<b>G SITEWORK</b>													
<b>G10 SITE PREPARATION</b>													
<b>G1010 Site Clearing</b>													
<b>G1010.10</b> Clearing and Grubbing													
<b>G1010.30</b> Tree and Shrub Removal and Trimming													
<b>G1010.50</b> Earth Stripping and Stockpiling													
<b>G1020 Site Elements Demolition</b>													
<b>G1020.10</b> Utility Demolition													
<b>G1020.30</b> Infrastructure Demolition													
<b>G1020.50</b> Selective Site Demolition													
<b>G1030 Site Element Relocations</b>													
<b>G1030.10</b> Utility Relocation													
<b>G1050 Site Remediation</b>													
<b>G1050.10</b> Physical Decontamination													
<b>G1050.15</b> Chemical Decontamination													
<b>G1050.20</b> Thermal Decontamination													
<b>G1050.25</b> Biological Decontamination													
<b>G1050.30</b> Remediation Soil Stabilization													
<b>G1050.40</b> Site Containment													
<b>G1050.45</b> Sinkhole Remediation													

AIA Document G202™ – 2013 (rev. 10/13). Copyright © 2013 by The American Institute of Architects. All rights reserved. **WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.** This document was produced by AIA software at 09:51:25 ET on 04/20/2020 under Order No.8744984688 which expires on 01/17/2021, and is not for resale.

User Notes: (1482777678)

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.  Insert abbreviations for each MEA identified in the table below, such as "A – Architect," or "C – Contractor."  NOTE: LODs must be adapted for the unique characteristics of each Project.													
<b>Model Elements Utilizing CSI UniFormat™</b>													
G1050.50 Hazardous Waste Drum Handling													
G1050.60 Contaminated Site Material Removal													
G1050.80 Water Remediation													
<b>G1070 Site Earthwork</b>													
G1070.10 Grading													
G1070.20 Excavation and Fill													
G1070.30 Embankments													
G1070.35 Erosion and Sedimentation Controls													
G1070.40 Soil Stabilization													
G1070.45 Rock Stabilization													
G1070.50 Soil Reinforcement													
G1070.55 Slope Protection													
G1070.60 Gabions													
G1070.65 Riprap													
G1070.70 Wetlands													
G1070.80 Earth Dams													
G1070.90 Site Soil Treatment													
<b>G20 SITE IMPROVEMENTS</b>													
<b>G2010 Roadways</b>													
G2010.10 Roadway Pavement													
G2010.20 Roadway Curbs and Gutters													
G2010.40 Roadway Appurtenances													
G2010.70 Roadway Lighting													
G2010.80 Vehicle Fare Collection													
<b>G2020 Parking Lots</b>													
G2020.10 Parking Lot Pavement													
G2020.20 Parking Lot Curbs and Gutters													
G2020.40 Parking Lot Appurtenances													
G2020.70 Parking Lot Lighting													
G2020.80 Exterior Parking Control Equipment													
<b>G2030 Pedestrian Plazas and Walkways</b>													
G2030.10 Pedestrian Pavement													

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes (See Sec 3.4)
	LOD	MEA	Notes										
G2030.20 Pedestrian Pavement Curbs and Gutters													
G2030.30 Exterior Steps and Ramps													
G2030.40 Pedestrian Pavement Appurtenances													
G2030.70 Plaza and Walkway Lighting													
G2030.80 Exterior Pedestrian Control Equipment													
<b>G2040 Airfields</b>													
G2040.10 Aviation Pavement													
G2040.20 Aviation Pavement Curbs and Gutters													
G2040.40 Aviation Pavement Appurtenances													
G2040.70 Airfield Lighting													
G2040.80 Airfield Signaling and Control Equipment													
<b>G2050 Athletic, Recreational, and Playfield Areas</b>													
G2050.10 Athletic Areas													
G2050.30 Recreational Areas													
G2050.50 Playfield Areas													
<b>G2060 Site Development</b>													
G2060.10 Exterior Fountains													
G2060.20 Fences and Gates													
G2060.25 Site Furnishings													
G2060.30 Exterior Signage													
G2060.35 Flagpoles													
G2060.40 Covers and Shelters													
G2060.45 Exterior Gas Lighting													
G2060.50 Site Equipment													
G2060.60 Retaining Walls													
G2060.70 Site Bridges													
G2060.80 Site Screening Devices													
G2060.85 Site Specialties													
<b>G2080 Landscaping</b>													
G2080.10 Planting Irrigation													
G2080.20 Turf and Grasses													
G2080.30 Plants													

**§ 3.3 Model Element Table**

Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.

Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."

NOTE: LODs must be adapted for the unique characteristics of each Project.

Model Elements Utilizing CSI UniFormat™	Construction Management Bid Package A			Construction Management Bid Package B			Construction Management Bid Package C			Construction Management Bid Package D			Notes
	LOD	MEA	Notes										
<b>§ 3.3 Model Element Table</b> Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.													(See Sec 3.4)
Insert abbreviations for each MEA identified in the table below, such as "A - Architect," or "C - Contractor."													
NOTE: LODs must be adapted for the unique characteristics of each Project.													
<b>G2080.50</b> Planting Accessories													
<b>G2080.70</b> Landscape Lighting													
<b>G2080.80</b> Landscaping Activities													
<b>G30 LIQUID AND GAS SITE UTILITIES</b>													
<b>G3010 Water Utilities</b>													
<b>G3010.10</b> Site Domestic Water Distribution													
<b>G3010.30</b> Site Fire Protection Water Distribution													
<b>G3010.50</b> Site Irrigation Water Distribution													
<b>G3020 Sanitary Sewerage Utilities</b>													
<b>G3020.10</b> Sanitary Sewerage Utility Connection													
<b>G3020.20</b> Sanitary Sewerage Piping													
<b>G3020.40</b> Utility Septic Tanks													
<b>G3020.50</b> Sanitary Sewerage Structures													
<b>G3020.60</b> Sanitary Sewerage Lagoons													
<b>G3030 Storm Drainage Utilities</b>													
<b>G3030.10</b> Storm Drainage Utility Connection													
<b>G3030.20</b> Storm Drainage Piping													
<b>G3030.30</b> Culverts													
<b>G3030.40</b> Site Storm Water Drains													
<b>G3030.50</b> Storm Drainage Pumps													
<b>G3030.60</b> Site Subdrainage													
<b>G3030.70</b> Storm Drainage Ponds and Reservoirs													
<b>G3050 Site Energy Distribution</b>													
<b>G3050.10</b> Site Hydronic Heating Distribution													
<b>G3050.20</b> Site Steam Energy Distribution													
<b>G3050.40</b> Site Hydronic Cooling Distribution													
<b>G3060 Site Fuel Distribution</b>													
<b>G3060.10</b> Site Gas Distribution													
<b>G3060.20</b> Site Fuel-Oil Distribution													
<b>G3060.30</b> Site Gasoline Distribution													
<b>G3060.40</b> Site Diesel Fuel Distribution													
<b>G3060.60</b> Site Aviation Fuel Distribution													

AIA Document G202™ – 2013 (rev. 10/13). Copyright © 2013 by The American Institute of Architects. All rights reserved. **WARNING: This AIA® Document is protected by U.S. Copyright Law and International Treaties. Unauthorized reproduction or distribution of this AIA® Document, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.** This document was produced by AIA software at 09:51:25 ET on 04/20/2020 under Order No.8744984688 which expires on 01/17/2021, and is not for resale.

User Notes: (1482777678)

	Construction Management			Construction Management			Construction Management			Construction Management			Construction Management			Notes (See Sec 3.4)
	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	LOD	MEA	Notes	
<b>§ 3.3 Model Element Table</b>																
Identify (1) the LOD required for each Model Element at each Project milestone, (2) the Model Element Author, and (3) references to any applicable notes found in Section 3.4.																
Insert abbreviations for each MEA identified in the table below, such as "A – Architect," or "C – Contractor."																
NOTE: LODs must be adapted for the unique characteristics of each Project.																
<b>Model Elements Utilizing CSI UniFormat™</b>																
<b>G3090</b>	<b>Liquid and Gas Site Utilities Supplementary Components</b>															
	G3090.10 Supplementary Components															
<b>G40</b>	<b>ELECTRICAL SITE IMPROVEMENTS</b>															
<b>G4010</b>	<b>Site Electric Distribution Systems</b>															
	G4010.10 Electrical Utility Services															
	G4010.20 Electric Transmission and Distribution															
	G4010.30 Electrical Substations															
	G4010.40 Electrical Transformers															
	G4010.50 Electrical Switchgear and Protection Devices															
	G4010.70 Site Grounding															
	G4010.90 Electrical Distribution System Instrumentation and Controls															
<b>G4050</b>	<b>Site Lighting</b>															
	G4050.10 Area Lighting															
	G4050.20 Flood Lighting															
	G4050.50 Building Illumination															
	G4050.90 Exterior Lighting Supplementary Components															
<b>G50</b>	<b>SITE COMMUNICATIONS</b>															
<b>G5010</b>	<b>Site Communications Systems</b>															
	G5010.10 Site Communications Structures															
	G5010.30 Site Communications Distribution															
	G5010.50 Wireless Communications Distribution															
<b>G90</b>	<b>MISCELLANEOUS SITE CONSTRUCTION</b>															
<b>G9010</b>	<b>Tunnels</b>															
	G9010.10 Vehicular Tunnels															
	G9010.20 Pedestrian Tunnels															
	G9010.40 Service Tunnels															
	G9010.90 Tunnel Construction Related Activities															

**§ 3.4 Model Element Table Notes**

Notes:

*(List by number shown on table.)*

Model Element Table is an add on document to all bid package noted above and relating to all contractors scope of work. The table identifies all bid package requirements to provide Building Information Models (BIM) during the BIM coordination process. In addition, refer to BIM protocol instruction to see LOD descriptions.

Contractors are required to attend coordination meetings, submit and post to BuildingBlok and maintain the BIM schedule production process.

Init.

/



# DAILY EXCAVATION PERMIT

## EXCAVATION INFORMATION

Location: \_\_\_\_\_  
 Project Name: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Company Name: \_\_\_\_\_ Shift: \_\_\_\_\_  
 Excavation Location: \_\_\_\_\_

Excavation Length \_\_\_\_\_  
 Width & Depth: \_\_\_\_\_

Soil Classification:  Type A  
 Type B  
 Type C  
 Protective System Used:  Yes  No

TYPE:  Sloping  
 Shoring  Benching  
 Shielding (Box)

**Note:** Do not dig until utility locations have been determined and Marks are Visible.



Do Not Use Equipment within 3 Feet of Utilities

Ticket Number \_\_\_\_\_

Weather: \_\_\_\_\_  
 Competent Person: \_\_\_\_\_ Person Completing Permit \_\_\_\_\_

## EXCAVATION REQUIREMENTS

### Do Not cut or move utilities until reviewed with EDiS Supervision

YES	NO	N/A	GENERAL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protective system used in any trench/excavation greater than 5 feet deep
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protective systems for excavations over 20 feet designed by an engineer
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spoils, materials & equipment set back $\geq 2$ feet from the edges of the excavation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Engineering designs for sheeting &/or manufacturer's data on trench boxes on site
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Adequate signs posted and barricades provided and installed
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Employee training conducted prior to beginning work
YES	NO	N/A	UTILITIES
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utility company / owner contacted & given required notice & <u>utilities located &amp; marked in excavation location. (Must be Visible)</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Mechanical Equipment used within 3 feet of established markings <u>Hand Dig Only</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utility locations (overhead & underground) reviewed with operator & employees
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Utilities protected, supported when excavation opened
YES	NO	N/A	WET CONDITIONS
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Employees protected from water accumulations (continuous dewatering)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspection made after every rainstorm
YES	NO	N/A	HAZARDOUS ATMOSPHERES
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site evaluated for potentially hazardous atmospheres
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Air monitoring & ventilation provided for potentially hazardous atmospheres
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency equipment available where hazardous atmospheres could or do exist
YES	NO	N/A	ENTRY & EXIT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A stairway, ladder, ramp or other safe means of egress is located in trench excavations that are 4 feet (1.22 m) or more in depth so as to require no more than 25 feet (7.62 m) of lateral travel for employees.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Access and Egress meet requirements of Subpart P
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders extend 3 feet above excavation edge and secured

**NOTE:** Items marked NO must be corrected prior to any employee entering the excavation.

\*This permit is for reference only. Contractor are responsible to fulfill their obligation to Local, State, and Federal Law

### Verified By:

Excavating Company Representative: \_\_\_\_\_ Date: \_\_\_\_\_

