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Shane Ryberg, Purchasing Agent

ADDENDUM

April 16, 2020

ADDENDUM # 5 Bid 20C6, Waverly Elementary School - New Construction

DUE DATE & TIME:

Bids for the following packages: 2A Sitework; 3A Concrete; 4A Masonry; 5A Structural Steel; 6A General Carpentry; 7A Roofing; 8A Windows and Storefronts; 9A Drywall and Acoustics; 9B Ceramic Wall and Floor Tile; 9C Fluid Applied and Terrazzo Flooring; 9D Resilient Flooring and Athletic Surfacing; 9E Painting; 11A Food Service Equipment; 11B Athletic Equipment; 15A Mechanical (Plumbing, HVAC and Sprinkler); 16A Electrical (including Low Voltage) will be received prior to, and no later than **11:00 a.m. local time, April 29, 2020** at <https://secure.procurenow.com/portal/fcps> (must be signed up prior to using this link)

1. **FCPS is accepting electronic bid submissions through ProcureNow. Bidders can create a FREE account with ProcureNow by signing up at <http://secure.procurenow.com/signup>**
2. This Addendum includes the following attachment(s):
 - a. Oak Contracting, LLC & GWWO Addendum Number 5 (61 pages)

Thank you for your interest in bidding with Frederick County Public Schools and we apologize for any inconvenience this may have caused.

Sincerely,

Kim Miskell

Kim Miskell, CSBO,
Assistant Purchasing Manager

km/ab

pc: Brian Staiger, Senior Project Manager, Construction Management
Scott Moir, GWWO
Dave Toth, Oak



ADDENDUM NO. 5

April 16, 2020

TO: ALL PLANHOLDERS AND PROSPECTIVE BIDDERS

RE: **WAVERLEY ELEMENTARY SCHOOL REPLACEMENT**

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 16, 2020. Acknowledge receipt of this Addendum in the space provided on the Form of Proposal.

General:

See attached Oak Contracting Pre-Bid RFI's, numbered PB-010 thru 017, 020 thru 023, 027, 033 thru 035, 043, and 047, for response to questions related to the Bid Documents (37 pages).

Changes to the Specifications:

Section 00 2413 Specifications Cross-Reference

Contract Package 6A – General Carpentry

Add Specification Section 10 1500 - Video Display Systems

Section 00 2416 Contract Packages

Contract Package 2A – Site

- Item 1.02: Delete "2A Contractor must employ the services of a Frederick County Public School's approved HazMat Abatement Contractor."
- Item 1.18 Delete "Contractor to assume 1,000 gallons of fuel is to be removed." and replace with "Contractor to assume 1,000 gallons of fuel is to be removed from each tank."
- Item 1.23 Delete reference to "30,000 sqft" and replace with "15,000 sqft."
- Item 1.52 Delete reference to "two inches (2)" and replace with "two and a half inches (2 1/2)".
- Item 1.88 Add "Existing playground equipment manufactured by Miracle. Original installing contractor of the playground equipment was Taylor Sports and Recreation."

Contract Package 4A – Masonry

Delete Item 1.16 in its entirety and replace with the following:

- Item 1.16 The 4A Contractor shall furnish and install masonry ties to gauge metal framing/ GWB assemblies. The 4A Contractor shall furnish and attach separate anchor to tie and install masonry.

Contract Package 6A – General Carpentry

Add Item 1.66:

- Item 1.66 8A Contractor is responsible for brake metal required where any partition abuts to any window or curtain wall. 9A Contractor is responsible for all framing, drywall, and insulation. 6A Contractor is responsible for all plywood at these locations.

Contract Package 8A – Storefronts and Windows

Delete Item 1.24 in its entirety and replace with the following:

- Item 1.24 8A Contractor is responsible for brake metal required where any partition abuts to any window or curtain wall. 9A Contractor is responsible for all framing, drywall, and insulation. 6A Contractor is responsible for all plywood at these locations.

Contract Package 9A – Drywall and Acoustics

Delete Item 1.35 in its entirety and replace with the following:

- Item 1.35 8A Contractor is responsible for brake metal required where any partition abuts to any window or curtain wall. 9A Contractor is responsible for all framing, drywall, and insulation. 6A Contractor is responsible for all plywood at these locations.

Contract Package 16A – Electrical (Including Low Voltage)

Delete Item 1.52 in its entirety and replace with the following:

- Item 1.52 16A Contractor to furnish and install projector mounts for all projector(s) and all cord reels in accordance with the following:

Provide ceiling-mounted projector plate mounts at all locations where projector(s) and cord reels are indicated on the drawings. Cord reels only require the power outlet and no data connections. Approved grid-mounted 24" x 24" projector drop-in tile (lightweight suspended ceiling kit) plates are Peerless model #CMJ455. Projector ceiling plates shall be mounted in accordance with all of the manufacturer's installation requirements. 16A Contractor shall coordinate installation of Projector ceiling plate's AC outlet and communication outlet with the power and communication drops and the various ceiling fixtures as indicated on project drawings. 16A Contractor shall coordinate installation of the projector ceiling plate's location with the center of the room's projection screen and coordinate the throw distance(s) (the distance from ceiling mounted projector plate to the screen surface) with the Owner. 16A Contractor shall coordinate location of ceiling plates being used for cord reels as required. 16A Contractor shall provide a minimum of 6' of above ceiling slack in the flexible metallic power cable (i.e.; MC type) to accommodate future minor relocation of ceiling mounted projector plates. Communications contractor shall likewise provide a minimum of 6' of above ceiling slack of in-room HI-Low audio/video/VGA cabling to the projector plates. Provide as indicated on the drawings, at the High Projector outlet, 36" of slack with connectors to extend to the Owner's projectors. In the future, the Owner will complete the installation of the ceiling mounted projectors with the addition of compatible projector brackets and extension columns (as needed). Data/Video projectors, projector brackets and extension columns are not provided in this specification.



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-010 - Electrical

Subject		Status
Electrical		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/03/2020	04/10/2020	
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		

QUESTION Kerrigan Toth on 4/3/2020 03:22 PM (Edited by Kerrigan Toth on 4/3/2020 03:25 PM)

PB-010 - Electrical

See questions below from Grounded Electrical Construction:

1. Riser diagram on drawing E5.1 shows panel labeled "E2LRPA" however, the panel schedule on drawing E7.3 shows panel labeled "E2LRA", please clarify.
2. Riser diagram on drawing E5.1 shows panels labeled "KP" and "KR" but there is no panel schedule provided.
3. Drawing TE0.1 camera symbol indicates camera are to be labeled by camera number. Not all cameras are labeled in the T series drawings. For example, cameras in cafeteria C101 are labeled however cameras in corridor C100B are not, please clarify.
4. Feeders for Panel "KR" as shown on the Switchboard schedule on drawing E5.1 list the feeder as "(4)#1/0 + #6GW - 1-1/2"C" however the transformer secondary wiring list the feeder as "(4)300kcmil + #2 SSBJ - 2 1/2"C", please clarify.
5. Classroom B203 on drawings E1.8 shows a duplex receptacles and a type C outlet over lapping one another, please indicate if both are needed or one or the other.
6. On drawing E1.6, Part Plan Elevator indicates 3 disconnect switches in elevator shaft, I believe this is shown in detail below part plan machine room F117A, are disconnect switches in F103 in error?
7. Office D104 on drawing E1.4 has a mechanical piece of equipment not labeled. Please clarify?
8. Media center room B101 on drawing E1.2 has a VRF labeled "4.10" but corridor/open space on drawing E1.8 also has a VRF labeled "4.10" please clarify?
9. In section 2.1 of the fire alarm specifications the engineer states that the two acceptable manufacturers for the fire alarm system are Notifier and Silent Knight. However there are no model numbers listed for these manufacturers. Is the Silent Knight 6820EVS fire alarm control panel acceptable?
10. Section 2.5, 2.6, 2.7, 2.8, 2.9, and 2.10 of the fire alarm specifications all of the devices, components, and equipment listed are model numbers for Edwards EST products. An example is section 2.5 which calls for a Edwards SIGA-278 pull station or section 2.8 which lists all Edwards modules like the SIGA-CT1 monitor module. All of the equipment and components listed in the fire alarm specifications are for Edwards EST products. Is section 2.1 of the fire alarm specifications incorrect? Should it read Edwards/EST or Silent Knight are the two acceptable manufacturers, since all the equipment and components listed in the fire alarm specifications are for the Edwards EST systems?
11. DOAS-9 on drawing E1.10 has another piece of equipment over lapping it, please clarify if this is an error?
12. Panel LRE on drawing E7.5 shows circuit #7 labeled as "Mechanical Reception E112", drawing E.1.5 shows CUH-9 in reception E112. Should circuit #7 on panel LRE be labeled CUH-9?
13. Pertaining to Spec Section 28-1605-2, Interlogix/GE CCTV is no longer in business and has no support from the manufacturer. Will there be a manufacturer substitute used in this project and if so what is it and will FCPS be providing or should the price include Division 28 supplying all of the parts required?
14. Fan Schedule on drawing M9.4 shows 26 fans, however the fan schedule on drawing E7.6 only shows 25 fans. Fan #12 is not on the drawings, please clarify if fan #12 is included.
15. Drawing E0.1 and power drawings indicate there are teacher drops and smartboard drops but there are no details provided for the drops on drawing E6.4.
16. There appears to be (3) admin drops media center B101 on drawing E1.2 and (2) in reception area E102 and (3) in reception area E112 on drawing E1.5, because of where they are located are these supposed to be floor boxes and not drops?
17. Page 38 of 280, item k of project manual volume 1 states only companies approved by FCPS' purchasing department will be considered for contract award; however page 36 item 1 of this same document states FCPS will no longer accept bidder's application and the interested contractors must be registered on eMMA to be considered for a contract award. Please confirm registration on eMMA is required, and approval of FCPS's purchasing department is not required.
18. Item 0.41 on page 65 of 208 in volume 1 of the project manual states the contractor shall have or employ a qualified consultant with regards to LEED requirements. Does this person need to have "LEED Accredited Professional (AP)" credentials?
19. Contract package 15A item 1.26 and contract package 16A item 1.09 says the 16A contractor shall coordinate the motor starters, contactors, disconnect switches, etc., with the 15A contractor. There is no way to complete this task pre-bid. Please indicate what contractor is to provide this equipment. Our suggestion would be if the equipment (motor starters, disconnects, etc.) as shown to be integral to the equipment on the mechanical and plumbing schedules, the 15A contractor is to furnish them. If the equipment (motor starters, disconnects, etc.) are loose (not indicated in the mechanical/plumbing schedules) the 16A contractor is to furnish them.

PB-010 - Electrical

20. Contract package 16A item 1.11 says we would be responsible for exterior gas. Please confirm this is in error and would be the responsibility of another contractor.
21. Contract package 6A item 1.18 state this contractor will furnish and install plywood backing (FRT) and backboards required for electrical, telephone and data installation; however contract package 16A item 1.12 says this contractor is to furnish and install plywood for our equipment. Who is responsible for furnishing and installing plywood backing for electrical, telephone and data equipment?
22. Contract package 16A item 1.14 says the 16A contractor will be responsible for install the concrete work complete if the housekeeping pad is larger than what's shown on the drawings, or not shown on the drawings at all. In the event the pad is larger than what is shown on the drawings, shouldn't the 16A contractor only be responsible for the delta in size shown on the drawings?
23. Contract package 16A item 1.30 says we are to install "no smoking" signs. Should this be performed by another contractor?
24. Contract package 16A item 1.36 says any receptacle in the kitchen shall be GFI whether indicated or not. Some receptacles won't be GFI is they are non-accessible behind equipment and/or protected by a GFI circuit breaker. Can this item be revised to reflect this?

1. Riser diagram on drawing E5.1 shows panel labeled "E2LRPA" however, the panel schedule on drawing E7.3 shows panel labeled "E2LRA", please clarify.
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PB-010 - Electrical

and not drops?

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PB-010 - Electrical

COMMENT Kerrigan Toth on 4/3/2020 03:34 PM

PB-010 - Electrical

1. Per GWWO.
2. Per GWWO.
3. Per GWWO.
4. Per GWWO.
5. Per GWWO.
6. Per GWWO.
7. Per GWWO.
8. Per GWWO.
9. Per GWWO.
10. Per Oak Contracting, see revision to fire alarm specification provided in Addendum #3.
11. Per GWWO.
12. Per GWWO.
13. Per Oak Contracting, see response to PB-001 provided in Addendum #3.
14. Per GWWO.
15. Per GWWO.
16. Per GWWO.
17. Per Oak Contracting, Contractors must be registered with eMaryland Marketplace Advantage. FCPS is not directly prequalifying Contractors for this Project. See pre-bid meeting minutes for additional clarification.
18. Per GWWO.
19. Per Oak Contracting, your recommendation is the intent. Contract Scope Items will be revised for clarity in a future Addendum.
20. Per Oak Contracting, 16A Contractor is responsible for any conduit ducts and incidentals related to the gas service. This would be for meters if applicable.
21. Per Oak Contracting, 6A is responsible for plywood back that is shown on the Contract Documents (see MDF and IDF Note 6 on Telecommunication Drawings). 16A is responsible for any plywood that is required but not shown as is written in the 16A Contract Package, Item 1.12. Please reference item 1.31 of the Contract Package for additional blocking requirements.
22. Per Oak Contracting, Scope language will remain as written. This will be a coordination issue between trades.
23. Per Oak Contracting, scope language will remain as written.
24. Per Oak Contracting, 16A Contractor is responsible to ensure all installations are in compliance with all applicable

PB-010 - Electrical

costs.

COMMENT Kerrigan Toth on 4/3/2020 03:36 PM

GWWO team, please note that Oak Contracting has answered some of these questions on 4.3 at 3:34pm.

COMMENT Jason Hearn on 4/9/2020 06:45 PM (Edited by Jason Hearn on 4/10/2020 01:35 PM)

1. Panelboard "E2LRA" is correct identification.
 2. Will be provided in forthcoming addendum.
 3. Will be addressed in forthcoming addendum.
 4. Refer to reissued transformer schedule and MSB schedule, to clarify wire sizing.
 5. This was clarified in Addendum No. 3.
 6. Delete disconnects shown in shaft.
 7. Indoor cassette associated with SSCU-8.
 8. Modeling issue, 4.10 is associated with work being completed on E1.2.
 9. Needs coordination with FCPS.
 11. Will reissue for clarity.
 12. Correct.
 14. Fan 12 will be added.
 15. To be addressed in forthcoming addendum.
 16. The two (2) "Admin" drops in E102 can be routed down through the bump-out that abuts the desk (next to the window) and run through the casework. The three (3) "Admin" drops in B101 is for a floating casework piece, so yes, these will need to be served by a floor box.
 18. A LEED AP Credential is not required for prime contractors and subcontractors. However, Knowledge of the rating system and prerequisite/credit requirements is necessary for all prime contractors and subcontractors. Reference Volume II, section 01 3329 for more information. Oak, please confirm that CM will be engaged in submission process and has a LEED AP on staff.
- Alban Comment for Oak Consideration--
19. No, that information is provided for the 16A contractor on the E-Series drawings. It is the 16A contractor's responsibility to review the location for installation, fuse types/sizes, etc. with the 15A contractor.
 24. This will be reviewed for consideration.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020

Kerrigan Toth (Oak Contracting LLC) Done On 4/14/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-011 - 9A Clarifications

Subject		Status
9A Clarifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/03/2020	04/10/2020	04/08/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/3/2020 03:40 PM (Edited by Kerrigan Toth on 4/3/2020 03:40 PM)

PB-011 - 9A Clarifications

See questions below from CanAm Contractors:

1. Please confirm that 8A will furnish and install window mullion (084313-A) and insulation show on detail 6/A6.18 or similar details.
 2. Please confirm that all ceiling types 1.12 shown on RCP will receive ceiling tile for shower (095100-D) with the exception of the kitchen.
 3. Please confirm that all tectum wall panels will be field painted by the 9E prime contractor. There is no any mention of painting tectum panels on 9E SOW. If 9A prime contractor has to provide factory painted tectum panels please let us know.
 4. Please confirm all tectum (wood wool) panels will be 1" thick per specs including gym and cafeteria.
 5. Please confirm that wall and ceiling thermoformed copolymer plastic panels should have standard white finish. If these panels needs to be wrapped with fabric, please be specific what fabric you want.
 6. 9A SOW #1.01 requires 9A furnish and install lath, plaster, FRP panels and felt. Please confirm that this was carried over from previous projects. If it is part of this project, please point me in the right direction where to find and provide spec sections.
 7. 9A SOW #1.14 requires 9A furnish and install metal column covers , GFRC column covers, accessories and sealants. I searched all over but I could not find any. Please confirm that this item is not part of this job. If it is please point me in the right direction where I can find it and how many column covers this school has.
 8. 9A SOW #1.15 requires 9A to provide any diffusers required at light troughs. Please clarify to what diffusers this SOW line refers or provide a detail where clarifies what 9A needs to furnish and install.
 9. 9A SOW #1.38 requires 4A & 9A to receive, unload, inventory and accept by signature. 9A will install door HM door frames on metal partitions. Please confirm that door frames is the only thing that 9A will be responsible to receive and unload.
 10. 9A SOW #1.21 requires 9A furnish and install all composite framing support system. Where specifically CFSS will be required? Usually this is used most of the time on auditoriums when ceilings are exposed and we have acoustical specialties suspended from CFSS but we do not have any such case on this school specially for 9A. Please confirm that this spec section will be applied to other packages and no 9A.
 11. Per spec section 092216-2.1-F 9A will have to provide mechanical anchorage devices that accommodate deflection using slotted holes to prevent rotation of studs while maintain structural performance of partition. This part of the specs do not provide the type track that is acceptable. Please choose what specific track is require from this two options below:
 - a. Slotted track w / 2 1/2" leg
 - b. Deflection track w/2" leg and metal strapping attached 12" below from top deck
 - c. Deflection track w/2" leg and deflection clip at each stud
 12. Per spec section 092216-3.2-H metal studs spacing to be 12", 16" or 24". Majority of this partitions will receive heavy boards such as abuse resistant and Hi-impact boards. I would recommend to reduce spacing to 16" specially where heavier bords are required. At least that is what I had seen in other schools.
 13. Please confirm that we can use abuse resistant boards or hi-impact up to ceiling height and complete the rest of the partition with standard gypsum board type X.
-

PB-011 - 9A Clarifications

COMMENT Kerrigan Toth on 4/3/2020 03:45 PM

1. Per Oak Contracting, 8A Contractor is responsible for this referenced assembly. See 8A scope item 1.26 for clarification.
 2. Per GWWO.
 3. See 9E scope item 1.12 for finishing requirements of acoustical panels.
 4. Per GWWO.
 5. Per GWWO.
 6. Per Oak Contracting, 9A Contractor is responsible for these items if required by the Contract Documents.
 7. Per Oak Contracting, 9A Contractor is responsible for these items if required by the Contract Documents.
 8. Per Oak Contracting, 9A Contractor is responsible for these items if required by the Contract Documents.
 9. Per Oak Contracting, see 9A scope item 1.33 for additional clarification.
 10. Per Oak Contracting, 9A scope will remain as written. See wall types on sheet AC.1 (D.02) and any other location where the specification section is referenced.
 11. Per GWWO.
 12. Per GWWO.
 13. Per Oak Contracting, Oak is recommending this suggestion be applied to the application wall types. GWWO to confirm.
-

ANSWER Jason Hearn on 4/8/2020 04:27 PM

2. The ceiling type described in specification 095100-2.2-D is to be used in areas with a shower(s) only. The Kitchen should receive the type described in 095100-2.2-C. All other areas currently noted as ceiling type 1.12 can receive the standard tile and grid described in 095100-2.2-B. This will be revised as part of a future addendum.
 4. Yes, all wood wool panels are to be 1" thick.
 5. Yes, the standard white finish without fabric wrap is correct.
 11. Please provide slotted track with a leg length appropriate for the deflection lengths specified in the drawings.
 12. A typical spacing of 16" on-center is preferred throughout.
 13. There is no exception to utilizing standard 5/8" Type-X gypsum wallboard at above ceiling conditions. Abuse-resistant or impact-resistant type is to be utilized below the ceiling plane at areas indicated.
-

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/15/2020

Jason Hearn (GWWO, Inc.) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-012 - Electrical Symbol Clarification

Subject		Status
Electrical Symbol Clarification		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/03/2020	04/10/2020	04/13/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/3/2020 03:48 PM

See question below from Key Systems:

Drawing E0.1 shows symbols for a Computer Drop, Video Drop, Smartboard Drop, Teacher Drop, Admin Drop and Student Drop, which appear throughout the E drawings. Details page E6.4 refers us to the telecom details for the rough-in information. Drawing TE0.1 does not include any of these symbols, nor do they appear on any telecom drawing or details. The locations of these drops on the E drawings do not correspond to any of the drops shown on the telecom drawings. Please advise if these drops are in addition to what is shown on the telecom drawings and what rough-ins are to be used for each type of drop.

ANSWER Jason Hearn on 4/13/2020 09:07 PM

The drops indicated on the electrical drawings refer the contractor to the details for power and back box coordination. It was done to inform the contractor to provide both power and data at that location. Refer to the power plans for the power requirements and refer to the data plans for data and back box for telecom.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-013 - 16A Clarifications

Subject		Status
16A Clarifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/06/2020	04/13/2020	04/13/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/6/2020 10:44 AM (Edited by Kerrigan Toth on 4/6/2020 10:45 AM)

See questions below from Grounded Electrical:

1. What contractor is responsible for the following specification sections:
 - a. 101101 – Video Display Boards
 - b. 101500 – Video Display Systems
 - c. 115313 – Projection Screens
 - d. 116143 – Stage Curtains

2. Spec 013000-3.9-A-1-e states a \$250.00 per single .dwg file applies. Please confirm .dwg files will be provided to the awarded contractors for submittals, shop drawings and coordination drawings for no fee after signing a waiver(s)?

3. Spec 015000-1.4-A says the contractor is to pay for telecommunication services to field office a time of project mobilization. Please confirm the owner will pay for telecommunication services (Verizon, Comcast, etc.).

4. Spec 260519-3.2-I states MC luminary cable can only be used in short lengths (12' max). Can this length limit be eliminated?

5. Spec 260519-3.3-H states an extra #10 copper ground is requires for all exterior work. Can this requirement be eliminated?

6. Spec 260533-3.1-A-5 states boxes and enclosures must be N4X. Is N3R acceptable?

7. Spec 262816-3.2-A-2 list outdoor enclosures as N4X. Is N3R acceptable?

PB-013 - 16A Clarifications

COMMENT Kerrigan Toth on 4/6/2020 10:49 AM

1. Per Oak Contracting, read Contract Package 6A, Scope Item 1.01.
2. Per Oak Contracting, certain files will be provided upon written request and with signed waivers (waiver forms will be provided by Oak Contracting). There is no cost for these files.
3. Per Oak Contracting, Owner pays for Comcast service for the new building only. Comcast, Verizon, etc. for trailers is to be paid for by the Contractor requesting these services. Oak will pay for the services to the Owner and CM Field Offices.

Items 4 thru 7 are per GWWO.

ANSWER Jason Hearn on 4/13/2020 09:09 PM

4. No.
5. No.
6. No.
7. No.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020

Kerrigan Toth (Oak Contracting LLC) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-014 - Installer Qualifications

Subject		Status
Installer Qualifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/06/2020	04/13/2020	04/06/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 4/6/2020 10:51 AM

See question below from Grounded Electrical:

1. Spec 271500-1.1-C and 2715000-3.14-A states the computer network (low voltage) installer shall be on the list of pre-qualified cabling contractors from FCPS. Is this still a requirement or is the pre-qualification requirement to be registered on eMMA? If it is still a requirement, can FCPS provide a list of pre-qualified cabling contractors?

ANSWER Kerrigan Toth on 4/6/2020 10:53 AM

Per Oak Contracting, there is no requirement for pre-qualification other than eMMA.

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/6/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-015 - Roofing Clarifications

Subject		Status
Roofing Clarifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/06/2020	04/13/2020	
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		

QUESTION Kerrigan Toth on 4/6/2020 01:23 PM (Edited by Kerrigan Toth on 4/6/2020 01:28 PM)

See questions below from Heidler Roofing Services:

1. Please confirm the roofing attachment sequence, 07 54 00-6, 3.4 C and D. Typically the first layer is fastened then the following layers are adhered including the coverboard.
2. Is contract package 8A responsible for supplying and installing all metal composite panels, metal soffits and form metal wall panels? Including canopies and penthouses? Reference package 7A, 1.01 and 1.19 and package 8A, 1.01, 1.17 and 1.25, package 9A , 1.25 and 1.36
3. Is contract package 7A responsible for supplying all flashings below the roofs or just above roofing areas?
4. Which package is responsible for installing the wood sheathing , batt insulation, mineral wool insulation, fluid-applied and sheet applied vapor retarders, and gypsum sheathing on the parapet walls?
5. Can additional dwgs and details be provided for the expansion joint detail along column 51 at roof areas B and C?
6. Can additional 3D dwgs be provided for the canopies at roof area B? Similar to dwg page 150. Are the lower canopies free standing or attached to the building at B, C and E?

PB-015 - Roofing Clarifications

COMMENT Kerrigan Toth on 4/6/2020 01:24 PM (Edited by Kerrigan Toth on 4/6/2020 01:32 PM)

1. Per GWWO.

2. Per Oak Contracting, see scope items 7A 1.05 & 1.19 and scope items 8A 1.17 & 1.25. 07 4213.23 Metal composite panels and all associated accessories are by 8A. If formed metal panels are required, they will be by 7A in accordance with the referenced scope items.

3. Per Oak Contracting, all locations as identified in the scope language.

4. Per Oak Contracting:
Wood Sheathing by 6A.
Batt Insulation by 7A on roof side of parapet.
Mineral wool insulation by 4A.
Fluid-Applied/ Sheet applied vapor retarders by 4A on parapet 07 2500 B... by 7A on roof and portion of parapet 07 5400 E...
Gypsum Sheathing on parapet walls, 9A has 06 1000 G.

5. Per GWWO.

6. Per GWWO.

COMMENT Jason Hearn on 4/9/2020 12:29 PM (Edited by Jason Hearn on 4/13/2020 09:12 PM)

1. Mechanical fasteners will puncture the vapor barrier, increasing the risk of it being compromised. Fasteners should be used to attach the deck sheathing; all layers above are to be adhered. These articles will be revised accordingly as part of a future addendum.

 5. Yes, additional information will be provided for all expansion joint conditions as part of a future addendum.

 6. Yes, we have prepared additional roof plans, reflected ceiling plans and 3D views of the three lower canopies for release as part of a future addendum. The canopies are attached to the building and are not freestanding.
-

ASSIGNMENTS

- Jason Hearn (GWWO, Inc.) Done On 4/15/2020
Kerrigan Toth (Oak Contracting LLC) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-016 - Roof Reglet Clarification

Subject		Status
Roof Reglet Clarification		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/07/2020	04/14/2020	04/15/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/7/2020 08:14 AM

See question below from Heidler Roofing:

Please confirm that soldering of the stainless steel roof reglet is not required.

COMMENT Jason Hearn on 4/8/2020 04:59 PM

Kerrigan, can you request more information. I assume the question pertains to conditions at low roofs where the roofing membrane turns up the face of masonry veneer and terminates at base of wall through-wall flashing. However, I want to make sure that is an accurate assumption. Thanks!

ANSWER Jason Hearn on 4/15/2020 01:48 PM

If this request for clarification is derived from specification Section 07 6200, Paragraphs 2.2 D and 3.3 D, then no, soldering of seams is not required.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-017 - Electrical Drawing Clarifications

Table with 3 columns: Subject, Status, Discipline, Importance, Location, Created On, Due Date, Date Resolved, Author, Resolved By. Row 1: Electrical Drawing Clarifications, Closed, Kerrigan Toth, Oak Contracting LLC, Jason Hearn, GWWO, Inc.

QUESTION Kerrigan Toth on 4/7/2020 04:35 PM

See questions below from Grounded Electrical:

- 1. Please provide more information for general note 4 on E0.02. The drawings don't indicate where this note applies, how we are to run the conduit, how many boxes we need. The note also says we are to submit a proposed quantity; however this is a competitive bid so shouldn't all bidders be pricing the same thing?
2. Is 'CR' in a circle in room B109 drawing E1.2 shown in error?
3. What are the unlabeled squares in rooms C110A, C110B, C114A and C114B on E1.3?
4. How is the divider curtain on E1.4 circuited and controlled?
5. What type of receptacle is required for the motorized backstops as shown on E1.4?
6. What is the unlabeled square in restroom E117A on E1.5?
7. What is the unlabeled square in restroom A204B on E1.7?
8. What is the unlabeled square in restroom F218A on E1.9?
9. Are the duct detectors shown on E1.11 in error?
10. Are the duct detectors shown on E1.12 in error?
11. Are the duct detectors shown on E1.13 in error?
12. The following fixture types are indicated to have two 0-10V dimming ballast per E2.0: J8x8, all 'P' series & U8. The floor plans don't indicate how these are to be wired/controls, nor do the details. Please provide additional information on how these fixtures are to be wired/controlled.
13. General note 4 on E5.1 says we are to provide 84 circuit panels for single section interiors; however the panel schedules don't reflect this. Please indicate if all single section panels should have 84 circuits, or if we are to provide the panels as indicated in the panel schedules.
14. Detail 5/E6.5 note 13 references daylight zones for zones 2 and 3; however no daylight sensors are shown.

PB-017 - Electrical Drawing Clarifications

ANSWER Jason Hearn on 4/9/2020 06:51 PM

1. Conduit routing and associated boxes is determined by contractor based on how they want to install the site lighting, through coordination with the lighting control system manufacturer, and that gets submitted at shop drawing level for review.
2. That symbol indicates a cord reel.
3. Those are radiant heat panels, characteristics and scheduled circuits will be in upcoming addendum.
4. Refer to forthcoming addendum.
5. Refer to forthcoming addendum.
6. Those are radiant heat panels, characteristics and scheduled circuits will be in upcoming addendum.
7. Those are radiant heat panels, characteristics and scheduled circuits will be in upcoming addendum.
8. Those are radiant heat panels, characteristics and scheduled circuits will be in upcoming addendum.
9. Yes, refer to the fire alarm drawings for DD location, it is a filter issue within our REVIT models.
10. Yes, refer to the fire alarm drawings for DD location, it is a filter issue within our REVIT models.
11. Yes, refer to the fire alarm drawings for DD location, it is a filter issue within our REVIT models.
12. J8x8 – Refer to detail on drawing E6.6 lighting controls and zones for Media. One zone for direct. One zone for indirect. All via room controller. 'P' Series – refer to detail on drawing E6.5 lighting controls and zones for cafeteria. One zone for direct. One zone for indirect. All via room controller. U8 – does not need to have two separate drivers. Either wire together or provide single driver for entire luminaire.
13. All panelboards shall be single section type, unless circuit capacity requires an additional can. 54, 66, 72 pole panelboards will all be in single section interior, to save on footprint and cost of panelboards.
14. Solar tubes were removed from project. Daylighting zone no longer applicable.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-020 - Roof Clarifications

Subject		Status
Roof Clarifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/08/2020	04/15/2020	04/14/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/8/2020 03:57 PM

See questions below from Heidler Roofing:

1. Are there any additional wind speed or wind up-lift requirements for the roof assembly on this project?
2. Are all the roof deck types D5.3 per dwgs A1.11-A1.16 and AX.3? please clarify where deck type D5.5 is located, acoustical deck.
3. Is the building insured by Factory Mutual and is a RoofNav number to be provided for the roof assembly?
4. Please clarify the coping and gravel stop materials, thickness and finish required.

COMMENT Jason Hearn on 4/9/2020 12:31 PM

Brian/Dave, does FCPS usually insure roof assemblies with Factory Mutual? They tend to be more stringent than standard warranties from the manufacturer. If not, I will remove mention of FM from the specification.

ANSWER Jason Hearn on 4/14/2020 02:30 PM

1. Reference the structural drawings (S0.1 and S0.3) for design wind loading tables and diagrams.
2. Roof type D5.5 is to be installed in Area D, over the gymnasium. The label on sheet A1.14 will be revised as part of a future addendum. Reference structural sheets S1.14 and S1.15 for more information; note 3" metal deck is to be installed in Area C, over the cafeteria but this 3" decking is not required to be acoustical decking.
3. No, all references to Factory Mutual are to be removed from Section 07 5400 per Addendum #5.
4. Per Section 07 6200, coping and gravel stop materials are to be "Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24 gage, (0.0239) inch thick base metal, shop pre-coated with PVDF coating."

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-021 - 08 4313 Finish Color

Subject		Status
08 4313 Finish Color		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/09/2020	04/16/2020	04/09/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/9/2020 11:28 AM

See question below from Debra's Glass:

Looking for a quick direction regarding Spec 084313 Part 2.2.A4 "Finish Color: Two color option: to match Architect's sample."

Is the design intent to have different colors at the interior and exterior of the storefront framing?

If yes, the YKK system that can achieve this option (YES 45FT) has a 2-1/4" profile, not 2" as mentioned in the specs.

ANSWER Jason Hearn on 4/9/2020 12:44 PM (Edited by Jason Hearn on 4/9/2020 12:44 PM)

Yes, the design intent is to have the a darker gray for the outside cap and an off-white (Bone White) or light gray for the interior tubes. There are no objections to a 2-1/4" profile; 2" is a minimum and 2-1/2" would be the maximum. The same approach pertains to 084413, Exterior Curtain Walls.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020

Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

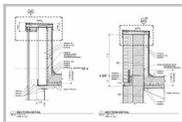
PB-022 - 9A Clarifications

Subject		Status
9A Clarifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/09/2020	04/16/2020	04/14/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

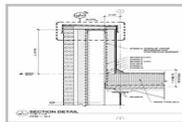
QUESTION Kerrigan Toth on 4/9/2020 02:07 PM

See questions below from CanAm:

1. Please confirm that exterior plywood sheathing (061000-E) will be furnish and install in its entirety by 6A no exceptions. 9A SOW 1.35 assigns plywood to 9A. 6A is installing already rough carpentry and it will be good idea to assign the entire spec section to 6A in its entirety.
2. Exterior walls C.02,C.12 and D.02 will receive weather barrier. Please confirm that gypsum sheathing will not require any joint treatment per 092116-3.6-A.
3. Exterior partition C.12 specifies abuse resistant board up to 8' and the rest of partition to be completed with type X gypsum board. However; partitions C.02 and D.02 does not have same note and there are section details on page A6.11, where gypsum board is not shown all way to the deck. Please clarify if exterior metal partitions will require gypsum board all way to the deck or just 6" above ceilings.
4. Confirm that all cavity insulation between air barrier and brick will be furnish and install by 4A in its entirety.
5. Confirm that all tack boards, marker boards, and smart boards will require only two rows of metal backing. If plywood is required assign to specific trade package.
6. Please confirm which contract package will be on charge of 072100-E (mineral wool insulation) and Z girts to attach 3/4" plywood show on the details below:



File
022_A.png
Kerrigan Toth



File
022.png
Kerrigan Toth

PB-022 - 9A Clarifications

COMMENT Kerrigan Toth on 4/9/2020 02:10 PM

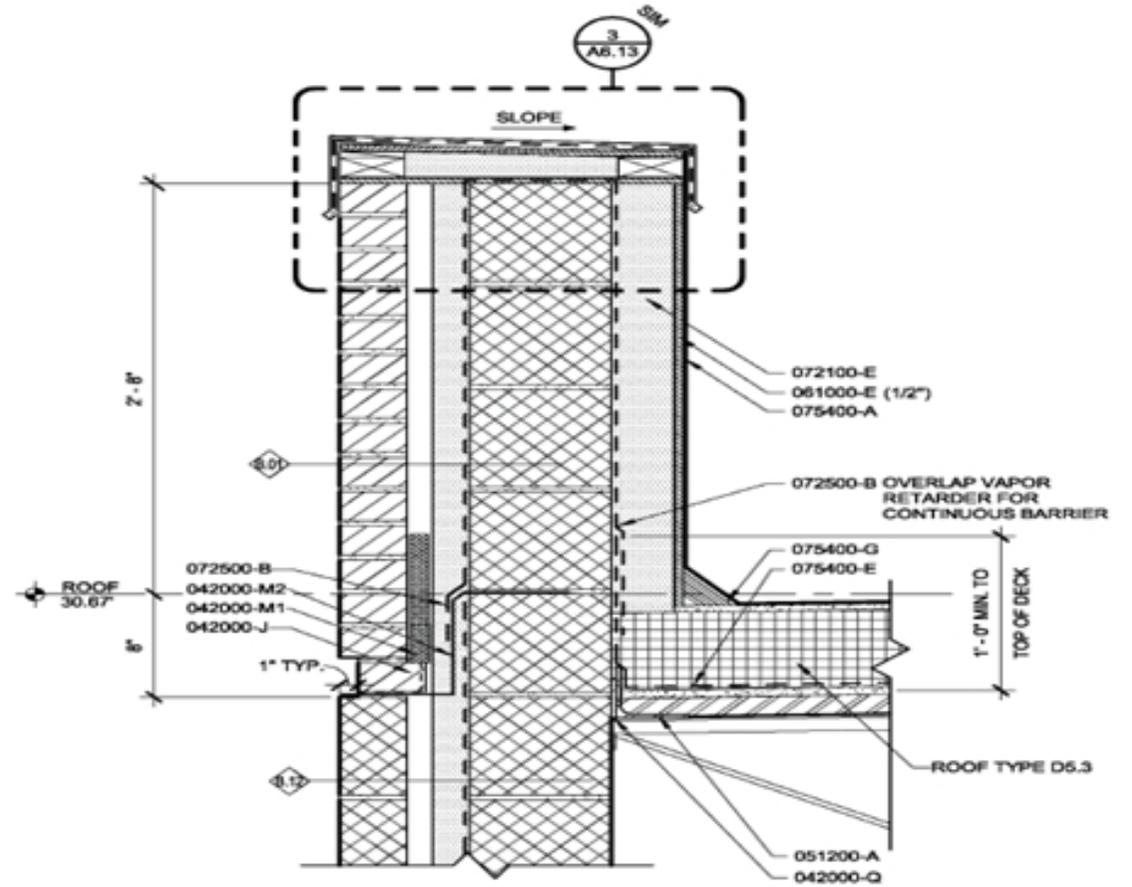
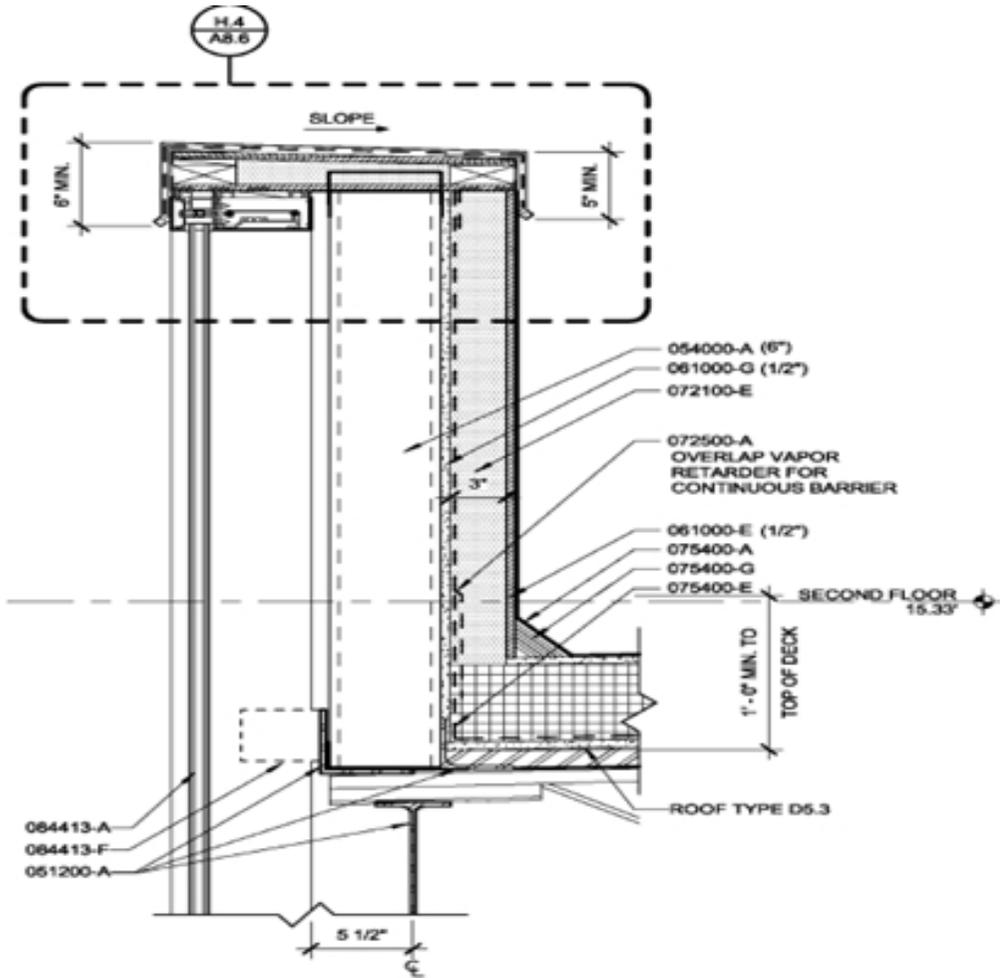
- 1. Per Oak Contracting, 9A scope item 1.35 will be revised to assign plywood to 6A.
- 2. GWWO to provide response.
- 3. GWWO to provide response.
- 4. Per Oak Contracting, please refer to 9A scope item 1.26.
- 5. Oak recommends Specification Section 09 2216 3.2 Q to be revised as follows to match 6A and 9A scopes ; 2x8 minimum Fire Treated blocking to be used for all toilet partitions, toilet accessories, and railings. 8" wide 20 gauge strap blocking to be used in all other locations unless specifically noted otherwise.
- 6. GWWO to confirm if z-girts are required for fastening of the plywood on the reference details. Oak will assign responsibilities accordingly. 4A furnish 9A install mineral wool. 9A furnish and install z-girts (if required). 6A furnish and install plywood.

.....
ANSWER Jason Hearn on 4/14/2020 03:20 PM (Edited by Jason Hearn on 4/14/2020 04:44 PM)

- 2. Requirements for exterior GWB sheathing are contained in Section 06 1000. References to exterior glass mat GWB sheathing in Section 09 2116 will be deleted as part of a future addendum.
- 3. This is correct for C.12, and per Addendum #5, for C.02 and D.02. Wall type D.02 is used in the penthouses over the classroom wings only; there are no ceilings in the penthouses. At a minimum, gypsum wall board is required above the ceiling at exterior walls that intersect sound-rated interior partitions.
- 6. Because the insulation applied to the back face of all parapets is semi-rigid, composite z-girts or PT/FRT wood nailers will likely simplify installation of the vertical plywood cover board. PT/FRT wood nailers shall be used as they are likely easier to get and are more cost-efficient. The details in question will be augmented as part of a future addendum.

.....
ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/15/2020
 Jason Hearn (GWWO, Inc.) Done On 4/15/2020



1 SECTION DETAIL
A8.13 1 1/2" = 1'-0"
FROM 14 / A4.7

2 SECTION DETAIL
A8.13 1 1/2" = 1'-0"
FROM 12 / A4.4



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-023 - Block Type

Subject		Status
Block Type		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/09/2020	04/16/2020	04/14/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/9/2020 02:55 PM

See questions below from Roche Brothers:

Section 32 3223-Segmental retaining walls specifications, Part 2-Products, 2.1 Manufacturers, A, 1 shows available block manufacturers and lists 6 different geogrid reinforced segmental block systems. However the plan set by GWWO Inc., volume 1, sheet C-3P shows block components of the Magnum-Stone block system which is a gravity wall that does not require geogrid reinforcement. Is the wall to be a Magnum-Stone gravity wall because geogrid reinforcement would encroach on the LOD? The block systems listed in the specifications all require geogrid reinforcement in the magnitude of 9-10' behind the block.

One other thing I noticed is that there are two street lights behind the wall. Is there a detail showing the pole base available? Sleeves of some sort will need to be installed concurrently with the wall backfill, and coordination will have to be made with the electrical contractor to run their power line ducting.

ANSWER Jason Hearn on 4/14/2020 03:26 PM

Correct, the proposed installation should be a gravity wall that does not require geogrid reinforcement. A revised specification corresponding with the information included on drawing C-3P will be included as part of a future addendum. Please refer to detail 2/E6.5 in the electrical series for the typical pole base detail. Correct; field coordination will be required between the site wall contractor and electrical contractor.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-027 - Playground Clarification

Subject		Status
Playground Clarification		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/13/2020	04/20/2020	04/14/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Jason Hearn GWWO, Inc.

QUESTION Kerrigan Toth on 4/13/2020 09:39 AM (Edited by Kerrigan Toth on 4/13/2020 09:40 AM)

See question below from Cunningham Recreation:

Please clarify if playground equipment is wood or metal?

ANSWER Jason Hearn on 4/14/2020 03:31 PM

Per the specification and product sheets included in Addendum #3, the playground equipment structures should be powder-coated steel. No wood structures will be accepted. The product sheets in Addendum #3 are to show design intent for customized steel structures by the manufacturers/distributers listed as approved in the specification.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-033 - Slab Insulation

Subject		Status
Slab Insulation		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/14/2020	04/21/2020	04/14/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 4/14/2020 05:36 PM

See question below from Canyon Contracting:

03A Package – Please confirm that under slab insulation board is not to be used on this project. If so please provide a detail and spec for the product to be used.

ANSWER Kerrigan Toth on 4/14/2020 05:37 PM

Per Oak Contracting, under slab insulation board will be furnished and installed by the 3A Contractor if required by the Contract Documents.

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/14/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-034 - Roofing

Table with 4 columns: Subject, Discipline, Created On, Author, Importance, Due Date, Location, Date Resolved, Resolved By. Row 1: Roofing, Closed, Roofing, 04/14/2020, Kerrigan Toth, Oak Contracting LLC, 04/21/2020, 04/14/2020, Kerrigan Toth, Oak Contracting LLC.

QUESTION Kerrigan Toth on 4/14/2020 05:54 PM

See questions below from Heidler Roofing:

Roofing – Based on the Waverly Elementary School construction schedule dated 3.16.2020.

- 1. What is the duration of the Roofing trade contract?
2. Per the schedule once the roofing is done 04DEC21, at that point would the roofing contractor be able to get a full release of any retainage?
3. If not when would this be released?

Project Milestones for Roofing-

- a. 67ROOF COMPL - AREA D14NOV20*
b. 69ROOF COMPL - AREA C05DEC20*
c. 70ROOF COMPL - AREA B04JAN21*
d. 71ROOF COMPL - AREA A25JAN21*
e. 72ROOF COMPL - AREA E13NOV21*
f. 73ROOF COMPL - AREA F04DEC21*

ANSWER Kerrigan Toth on 4/14/2020 05:55 PM (Edited by Kerrigan Toth on 4/14/2020 05:55 PM)

Per Oak Contracting, duration of roofing contractor is June 2020 (Notice to Proceed) to June 2022 (Substantial Completion of New Waverley)

Final retention is released once all close-out documentation is submitted and approved, including close out confirmation with DLI (see scope item 0.14)

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/14/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-035 - Playground Equipment

Subject		Status
Playground Equipment		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/14/2020	04/21/2020	04/14/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 4/14/2020 05:55 PM

See question below from David H. Martin:

Can the company or installer who installed the playground that needs relocated be provided in order to contact for a price to provide certified relocation.

ANSWER Kerrigan Toth on 4/14/2020 05:56 PM

Per Oak Contracting, Playground Equipment to be relocated per 2A Contract Package Item 1.88 was manufactured by Miracle and the installing contractor was Taylor Sports & Recreation.

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/14/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-043 - Site Package Clarifications

Subject		Status
Site Package Clarifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/15/2020	04/22/2020	04/15/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 4/15/2020 02:18 PM

See below from Waynesboro Construction:

Item 1.02 of the 2A Site Package description states that we "must employ a Frederick County Public School's approved HazMat Abatement Contractor". Can you please provide a list of the contractors we are allowed to solicit pricing from. I would like to contact all approved contractors today to confirm they are requesting to be included in the walkthroughs prior to the dead line tomorrow at 3:00 PM per item # 48 of the Addendum # 3 Pre-Bid Meeting Minutes. I do not see any list provided in the bid documents. If they do not have to be an approved vendor, I still need to know so I can contact additional contractors to get interest.

ANSWER Kerrigan Toth on 4/15/2020 02:19 PM

Per Oak Contracting, there requirement for pre-qualification of abatement contracts does not apply. We will revise the scope item in a future addendum.

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/15/2020



Waverley Elementary School Replacement (1901)

201 Waverley Drive
Frederick, Maryland 21702

PB-047 - 2A Scope Clarifications

Subject		Status
2A Scope Clarifications		Closed ●
Discipline	Importance	Location
Created On	Due Date	Date Resolved
04/15/2020	04/22/2020	04/15/2020
Author		Resolved By
Kerrigan Toth Oak Contracting LLC		Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 4/15/2020 05:15 PM
See attached questions from Independence Excavating.



File
200415 - Waverley...
Kerrigan Toth

ANSWER Kerrigan Toth on 4/15/2020 05:16 PM

PB-047 - 2A Scope Clarifications

Oak responses are as follows;

Question #1. The 2A Contractor is to carry a line item in their schedule of values for \$315,000 (1,500 cu. Yds. of contaminated soils x Unit Price of \$210/cu.yd.) once determination of extent and quantity is known, the 2A Contractor will be paid from this line item accordingly. Balances will be resolved via change orders to the 2A Contractor.

Question #2. Contractor to assume 1000 gallons per tank.

Question #3. No. Stockpiling of materials is limited on this site to the area shown on the bid documents. The intent of this location was for building spoils. Refer to scope item 1.48 for additional clarification.

Question #4. See scope item 1.48. There is insufficient space on site for material stockpiling.

Question #5. Owner pays for utility connection fees and meters. Contractor is responsible for utility permits/plumbing permits required by the City of Frederick.

Question #6. No

Question #7. Scope item is clear. Only the equipment pads are by either 15A or 16A.

Question #8. Please read the general conditions of the contract which is included in the project bid documents.

Question #9. See response to question #8.

Question #10. See response to question #8.

Question #11. Bid date will not change.

Question #12. Scope item 1.52 will be revised to reflect 2.5"

Question #13. Please read contract general conditions provided in the project specifications.

Question #14. See response to question #5.

Question #15. Yes

Question #16. Please read the instruction to bidders provided in the specifications. Please also review the pre-bid meeting minutes provided in addendum 2.

Question #17. Please review the MBE requirements listed in the specifications.

Question #18. Unit prices are obtained from surveys of local contractors that have provided stone dust for numerous projects in the area.

Question #19. See response to question #1

Question #20. See response to question #18.

Question #21. Please review language provided on the form of proposal under unit prices.

Question #22. See response to question #21.

Question #23. Yes

Question #24. Scope items will remain as written.

Question #25. Scope item 1.86 will be revised in future addendum.

Question #26. These are 2 separate staging areas. Staging area identified in scope item 1.86 is located in the area adjacent to the temp asphalt parking lot on the referenced drawings. The CM staging area will be located by the CM as required. 2A Contractor shall carry a line item on their schedule of values for the CM staging area for the sq ft of staging area x the listed unit price of \$4/sq.ft.

Question #27. See drawing C-2A and C-2B and addendum #3.

Question #28. Scope item is clear. Total quantity and quantity per phase are listed.

Question #29. Scope item 1.11 will be revised in future addendum.

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/15/2020



INDEPENDENCE EXCAVATING, INC.

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April 15, 2020

Ms. Kim Miskell
Frederick County Public Schools
191 South East Street
Frederick, MD 21701

PROJECT: 20C6 – Waverley Elementary School – New School Construction
RE: Request for Information

Please review the below questions and provide responses in the form of an addendum.

1. In regards to contaminated soils, note 1.18 of the 2A Site scope sheet states there is to be 1,500 CY of contaminated soil removal. Please clarify/confirm the following:
 - a. Is this the extent of the contaminated soil on the site? If not, the contractor will need more information to determine the extent.
 - b. Is there a Phase 2 report stating the extent of the contamination? If so, please provide this report.
 - c. If there is no Phase 2 report, what should the contractor assume in regards to the contaminations levels? This information is pertinent in order to know where the material can be hauled to, what the disposal rate is, and what levels of PPE are needed to handle this contamination.
2. In regards to note 1.18 of the 2A Site scope sheet, is there a total of 1,000 Gallons of fuel between the two tanks to be removed, or is this 1,000 Gallons per each tank?
3. E&S Phase 1 plans show a small stockpile area with silt fence around it. Can this area be used for topsoil stockpiling?
4. If no room for topsoil stockpiles is on site, is it truly the intent for the contractor to haul off all topsoil material, even if suitable for respread, and reimport topsoil at scope completion? This can be a very costly expense, and we suggest allocating some space on site for storing some topsoil.
5. In regards to permits, will the contractor be responsible to pay for the fees associated with sanitary and waterline connection permits, meter permits, and any other utility permits needed?
6. Is the contractor responsible to pay for and/or obtain building permits or grading permits?
7. In regards to note 1.58 of the 2A Site scope sheet, the first sentence states that generator and transformer enclosure slabs and footings are the responsibility of the 2A contractor. However, the scope note goes onto state that all exterior equipment pads for 15A and 16A will be their responsibility. Please clarify who is responsible for the exterior equipment pads. Furthermore, if these are the responsibility of the 2A Site Contractor, please provide details, specifications, and locations.
8. Due to the ongoing COVID-19 Pandemic, how will the contractor be compensated for schedule delays, idle time, extended general conditions, additional mobilizations and demobilizations, unabsorbed home office overhead, labor escalation, material escalation, and fuel escalation caused either directly or indirectly by the COVID-19 Pandemic?
9. Due to the ongoing COVID-19 Pandemic, how will milestone and/or completion dates be adjusted to account for workforce shortages and supply chain issues associated with all construction materials, fuel, lubricants, and equipment parts.
10. Will the owner waive any liquidated or consequential damages related to any event, workforce shortage or affected supply chain caused directly or indirectly by the COVID-19 Pandemic?

11. Due to the current working parameters from the COVID-19 Pandemic restrictions, receiving pricing from subs and suppliers, especially for specialty items, is becoming more and more difficult. Therefore, we would like to request an extension to the bid date to help secure pricing.
12. Please confirm that the 2A Site Contractor is to scarify and remove stone 2" and larger in diameter from the top 8" of the dirt subgrade in the areas to receive topsoil. This requirement is above and beyond the 2-1/2" size material that is allowed in fill.
13. What is the overhead and profit markup allowed on labor, equipment, and materials for extra work on the project?
14. Will the owner be paying for the water tie-in fee (i.e. permits)?
15. With the duration of the project spanning three years, will retainage be released per phase completion?
16. Since the bid form lists multiple packages, should the contractor circle the package they are bidding on?
17. What agency do the MBE vendors need to be approved by in order to be used on this project?
18. In regards to Unit Price #40 on the form of proposal, where are you receiving pricing for this? This price seems extremely low for delivering stone dust to the site. The price shown will not even cover furnishing non-spec stone dust.
19. In regards to Unit Price #8 on the form of proposal, what type of contamination is this for? Does this include all PPE necessary or can this be an extra charge? The contractor will need to be supplied a Phase 2 report in order to truly know the costs of excavating and disposing of contaminated materials. Depending on the type and level of contamination, the pricing can vary greatly. We request that either the Phase 2 report be furnished for bidding purposes, the unit price be classified with a certain contaminate and level, or the unit price be removed.
20. In regards to unit prices #9-12 on the form of proposal, where is the owner/GC receiving aggregate quotes? These unit prices will barely cover the cost to deliver a cubic yard of the specified stone to the site. For instance, one ton of #57 stone delivered to the site is ~20 dollars per TN which converts to \$32/CY (1.6 TN/CY conversion); adding tax this comes to \$33.92 per cubic yard. Additionally, the average disposal fees for dirt could be as much as \$20 per cubic yard in this area. The remaining left in these unit prices is not enough to cover the work remaining with a reasonable OH&P added. We would request the owner to reevaluate the unit prices.
21. Do the unit prices in the form of proposal account for material escalation? This project is set for a three-year schedule; we request a reasonable escalation percentage be applied per phase.
22. Do the unit prices in the form of proposal account for the recent and anticipated increase in material costs due to the COVID-19 Pandemic? If not, we request language be incorporated to protect the contractor from material cost increases due to the aforementioned.
23. In regards to 1.03 of the 2A Site Package scope of work, is the contractor expected to utilize stone dust if fill is needed within the proposed building pad in lieu of acceptable dirt fill? This seems excessive and costly if suitable fill is available on-site.
24. Throughout the 2A scope of work, there are multiple references to utilizing certain materials (i.e. stone dust) or performing certain activities only if required by the construction manager. How are we to know if the construction manager chooses to utilize these materials or perform these tasks? We request that the scope of work be revised to make statements of what the actual work to be performed is instead of the aforementioned. This will allow for a more level and competitive bid.
25. In regards to 1.86 of the 2A Site Package scope of work, is the contractor expected to utilize stone dust to make the fills necessary for the temporary staging area? If this is just a temporary area, this seems excessive and costly when suitable fill will be available on site.
26. Refer to 1.23 and 1.86 of the 2A Site Package scope of work. One mentions the staging area should be 30,000 square feet and have 12" of CR-6 on fabric; the other mentions the staging area should be 29,000 square feet and have 6" of CR-6 on filter fabric. Please clarify which should be followed and where this area is.
27. In regards to 1.87 of the 2A Site Package scope of work, an asphalt access road is referenced. This is said to be show on the sediment and erosion control plans, however no asphalt trails are shown. Please provide

location so a proper takeoff can be performed. Will the contractor be responsible for removing this trail as well?

28. In regards to 1.67 of the 2A Site Package scope of work, will the temporary fence called out in each phase be added on as the project progresses, or will you only need the amount accounted for in each phase? In other words, Phase 1 calls for 5,000 LF and Phase 2 calls for 2,500 LF; does that mean we will need to provide an additional 2,500 LF for Phase 2, or remove 2,500 LF from phase 1?
29. In regards to 1.11 of the 2A Site Package scope of work, three construction entrances are called out to be installed, maintained, and water provided. Please respond to the following:
 - a. Will these three entrances be in service for the entire duration of the project? If not, how long will each be in service for?
 - b. Please provide the locations of these three entrances. Only two entrances are shown on the E&S plans, and locations are needed for temp water needs.
 - c. Is the contractor required to provide wash operations at each entrance for the entire duration of the job, regardless of whose vehicles are entering/exiting the site? This item can be extremely costly if three entrances will need wash operations.
 - d. Who will cover the costs of paying for water? If it is the 2A contractors' responsibility, we request this be changed to the construction manager or owner. It is impossible to accurately estimate the amount of water we alone will use for vehicle washing over the course of three years, let alone every other contractor, CM, inspector, and owner on the site.

ADDENDUM #5

DATE: April 15, 2020
BID NAME: Waverley Elementary School – New Construction
BID NUMBER: 20C6
BID ISSUE DATE: March 17, 2020
DUE DATE: April 29, 2020
DUE TIME: 11:00 A.M.

TOTAL PAGES: 6 (plus 11 sketches and 5 full-size drawings)

The following revisions and responses to questions are made to the original bid documents. This addendum forms a part of the Contract Documents and modifies the Original Solicitation Documents accordingly and as noted below. Acknowledge receipt of this Addendum in the space provided on the "Addenda" form within the Form of Proposal.

PART 1 GENERAL (NOT USED)

PART 2 SPECIFICATIONS

2.1 VOLUME II

1. **REVISE** Specification Section 07 5400 – THERMOPLASTIC MEMBRANE ROOFING; ISSUED FOR BID, dated 03/16/2020.
 - **DELETE** all references to “FM (AG) Factory Mutual requirements.”
 - **REVISE** Part 3.4 (Vapor Retarder and Insulation – Under Membrane), Paragraph C to read, “Attachment of Insulation: Embed each layer of insulation in adhesive in full contact, in accordance with roofing and insulation manufacturers' instructions.”
 - **REVISE** Part 3.4 (Vapor Retarder and Insulation – Under Membrane), Paragraph D to read, “Cover Boards: Fully adhere cover boards in accordance with roofing manufacturer's instructions.”

2.2 VOLUME III

1. **REVISE** Specification Section 22 4000 – PLUMBING FIXTURES; ISSUED FOR BID, dated 03/16/2020.
 - **REVISE** Part 2.3 (Sink Faucets), Paragraph B to read, “Basis of Design product: subject to the compliance with requirements provide Chicago Faucet No. 201-G8AE2805F317AB, limited rigid/swing convertible 8” gooseneck spout with limit stops, ADA compliant, wrist blade handle and vandal resistant .5 GPM aerator.”
 - **REVISE** Part 2.3 (Sink Faucets), Paragraph B, Item 2, F to read, “Centers: 8 inches.”
 - **REVISE** Part 2.3 (Sink Faucets), Paragraph B, Item 2, J to read, “Spout type: 8” rigid/swing convertible gooseneck spout.”
 - **REVISE** Part 2.3 (Sink Faucets), Paragraph C to read, “Basis of Design product: subject to the compliance with requirements provide Chicago Faucet No. 201-G8AE2805F317AB, limited rigid/swing convertible 8” gooseneck spout with limit stops, ADA compliant, wrist blade handle and vandal resistant .5 GPM aerator.”

- **REVISE** Part 2.3 (Sink Faucets), Paragraph C, Item 2, J to read, “Spout type: 8” rigid/swing convertible gooseneck spout.”

PART 3 DRAWINGS

3.1 ARCHITECTURAL

1. **REVISE** Drawing Sheet AC.1 – CONSTRUCTION TYPES; Issued for Bid, dated 03/06/2020.
 - **ADD** “PROVIDE 09116-B ABOVE CEILING” to wall types C.02, C.12, 1.11-1.15, 1.21-1.25, 1.22x, 2.02-2.04, 2.11-2.14, 2.42-2.44 and 2.62-2.64.
2. **REVISE** Drawing Sheet AC.2 – CONSTRUCTION TYPES; Issued for Bid, dated 03/06/2020.
 - **DELETE** “NRC=” from “Ceiling Type 1.12”.
 - **ADD** “Ceiling Type 1.13” described as ‘24” X 48” MOISTURE-RESISTANT ACP’.
3. **REVISE** Drawing Sheet A2.1 – REFLECTED CEILING PLAN – FIRST FLOOR – AREA A; Issued for Bid, dated 03/06/2020.
 - **REVISE** all instances of “Ceiling Type 1.12” to be “Ceiling Type 1.11”.
4. **REVISE** Drawing Sheet A2.3 – REFLECTED CEILING PLAN – FIRST FLOOR – AREA C; Issued for Bid, dated 03/06/2020.
 - **REVISE** ceiling types in C101A, C101B, C114A and C114B to be “Ceiling Type 1.11”. This is to include the sink area outside of C101A/C101B.
 - **REVISE** ceiling types in C110A and C110B to “Ceiling Type 1.13”.
5. **REVISE** Drawing Sheet A2.4 – REFLECTED CEILING PLAN – FIRST FLOOR – AREA D; Issued for Bid, dated 03/06/2020.
 - **REVISE** ceiling types in D102A and D102B to be “Ceiling Type 1.11”. This is to include the sink area outside of D102A/D102B.
 - **REVISE** ceiling types in D104A and C110B to “Ceiling Type 1.13”.
6. **REVISE** Drawing Sheet A2.5 – REFLECTED CEILING PLAN – FIRST FLOOR – AREA E; Issued for Bid, dated 03/06/2020.
 - **REVISE** ceiling types in E111, E114, E115, E117A and E126 to be “Ceiling Type 1.11”. This is to include the sink area outside of D102A/D102B.
 - **REVISE** ceiling type in restroom of E103 to “Ceiling Type 1.13”.
7. **REVISE** Drawing Sheet A2.6 – REFLECTED CEILING PLAN – FIRST FLOOR – AREA F; Issued for Bid, dated 03/06/2020.
 - **REVISE** all instances of “Ceiling Type 1.12” to be “Ceiling Type 1.11”.
8. **REVISE** Drawing Sheet A2.7 – REFLECTED CEILING PLAN – SECOND FLOOR – AREA A; Issued for Bid, dated 03/06/2020.
 - **REVISE** all instances of “Ceiling Type 1.12” to be “Ceiling Type 1.11”.
9. **REVISE** Drawing Sheet A2.10 – REFLECTED CEILING PLAN – SECOND FLOOR – AREA F; Issued for Bid, dated 03/06/2020.
 - **REVISE** all instances of “Ceiling Type 1.12” to be “Ceiling Type 1.11”.
10. **DELETE** Drawing Sheet A5.2 – STAIR PLANS & SECTIONS; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet A5.2 – STAIR PLANS & SECTIONS; ADDENDUM #5 (Revision dated 04/15/2020).

- **REVISED** drawing 2/A5.2 (now 4/A5.2) to show roof plan information for canopy.
 - **REVISED** railing types in drawings 1/A5.2 (now 3/A5.2) and 2/A5.2 (now 4/A5.2).
 - **ADDED** 3D diagram of bus entry canopy (9/A5.2).
 - **ADDED** reflected ceiling plan of high overhang at bus entry (10/A5.2).
 - **ADDED** details 1, 2, 5, 6, 7 and 8/A5.2.
 - **REVISED** drawing numbers to be sequential from top left to bottom right. View references to these drawings from other sheets are reconciled for the future “Conformed Set.”
11. **REVISE** Drawing Sheet A5.21 – STAIR & RAILING DETAILS; Issued for Bid, dated 03/06/2020.
- **DELETE** details 3, 4, 5, 6, 7 and 8.
 - **CONSOLIDATED** information to one sheet (A5.2). View references to these drawings from other sheets are reconciled for the future “Conformed Set.”
12. **DELETE** Drawing Sheet A6.3 – PLAN DETAILS; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet A6.3 – PLAN DETAILS; ADDENDUM #5 (Revision dated 04/15/2020).
- **REVISED** scale of details 1, 2 and 3; **ADDED** details 3, 4, 6 and 7 from Drawing Sheet A6.4 – PLAN DETAILS and supplementary linework/notes corresponding to items addressed in previous addenda.
 - **ADDED** canopy roof plans of main entry and intersection of Areas B and C.
 - **ADDED** overhang reflected ceiling plans of main entry and intersection of Areas B and C.
 - **ADDED** scupper and downspout isometric drawing for use at canopies (typical of three locations in the project).
 - **REVISED** drawing numbers to be sequential from top left to bottom right. View references to these drawings from other sheets are reconciled for the future “Conformed Set.”
13. **DELETE** Drawing Sheet A6.4 – PLAN DETAILS; Issued for Bid, dated 03/06/2020.
- **CONSOLIDATED** information to one sheet (A6.3).
14. **REVISE** Drawing Sheet A6.11 – SECTION DETAILS; Issued for Bid, dated 03/06/2020.
- **REVISE** detail 9 as indicated in Sketch ADD5.9 issued as part of this addendum.
 - **REVISE** detail 10 as indicated in Sketch ADD5.7 issued as part of this addendum.
 - **REVISE** detail 12 as indicated in Sketch ADD5.8 issued as part of this addendum.
15. **REVISE** Drawing Sheet A6.12 – SECTION DETAILS; Issued for Bid, dated 03/06/2020.
- **REVISE** detail 1 as indicated in Sketch ADD5.5 issued as part of this addendum.
 - **REVISE** detail 5 as indicated in Sketch ADD5.6 issued as part of this addendum.
 - **REVISE** detail 6 as indicated in Sketch ADD5.4 issued as part of this addendum.
 - **REVISE** detail 10 as indicated in Sketch ADD5.3 issued as part of this addendum.
 - **REVISE** detail 12 as indicated in Sketch ADD5.7 issued as part of this addendum.
16. **REVISE** Drawing Sheet A6.13 – SECTION DETAILS; Issued for Bid, dated 03/06/2020.
- **REVISE** detail 8 as indicated in Sketch ADD5.3 issued as part of this addendum.

17. **REVISE** Drawing Sheet A6.16 – SECTION DETAILS; Issued for Bid, dated 03/06/2020.
 - **REVISE** detail 3 as indicated in Sketch ADD5.2 issued as part of this addendum.
 - **REVISE** detail 7 as indicated in Sketch ADD5.2 issued as part of this addendum.
 - **REVISE** detail 10 as indicated in Sketch ADD5.1 issued as part of this addendum.
18. **REVISE** Drawing Sheet A6.17 – SECTION DETAILS; Issued for Bid, dated 03/06/2020.
 - **REVISE** detail 9 as indicated in Sketch ADD5.1 issued as part of this addendum.
19. **REVISE** Drawing Sheet A7.3 – ENLARGED PLANS & INTERIOR ELEVATIONS; Issued for Bid, dated 03/06/2020.
 - **REVISE** all instances of “Ceiling Type 1.12” to be “Ceiling Type 1.11”.

3.2 STRUCTURAL

1. **REVISE** Drawing Sheet S1.1 – FOUNDATION PLAN – AREA A; Issued for Bid, dated 03/06/2020.
 - **ADD** foundation types and sizes noted in Sketch ADD5.11 issued as part of this addendum.
 - **ADD** reference to detail 6/S3.3 to foundation condition below curtain wall between column lines 12 and 13, along BK.
2. **DELETE** Drawing Sheet S1.2 – FOUNDATION PLAN – AREA B; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet S1.2 – FOUNDATION PLAN – AREA B; ADDENDUM #5, (Revision dated 04/15/2020).
 - **ADDED** pier details B/S1.2 and C/S1.2.
 - **REVISED** footings and drawing references as indicated.
3. **REVISE** Drawing Sheet S1.4 – FOUNDATION PLAN – AREA D; Issued for Bid, dated 03/06/2020.
 - **ADD** reference to detail 6/S3.3 to foundation conditions below curtain wall in Gymnasium (two locations).
4. **REVISE** Drawing Sheet S1.5 – FOUNDATION PLAN – AREA E; Issued for Bid, dated 03/06/2020.
 - **ADD** reference to detail 6/S3.3 to foundation condition below curtain wall between column lines 46 and 46.5, near AE.
 - **ADD** reference to detail 6/S3.3 to foundation condition below curtain wall between column lines AB and AC, along 42.
5. **REVISE** Drawing Sheet S1.6 – FOUNDATION PLAN – AREA F; Issued for Bid, dated 03/06/2020.
 - **ADD** references to detail 6/S3.3 to foundation condition below curtain wall between column lines 2 and 3, near BB and along BK.
6. **REVISE** Drawing Sheet S1.8 – FLOOR & LOW ROOF FRAMING PLAN – AREA B; Issued for Bid, dated 03/06/2020.
 - **REVISE** high beam in rear vestibule (between columns lines BE and BF) above stair landing and door to exterior to “HSS18X6X5/8 (+11'-9”)”.
 - **REVISE** beam from column lines 49 to 50, along AE to “W21X44 (+13'-9”)”.
 - **REVISE** beam from column lines 9 to 49, along AE to “W21X44 (+13'-9”)”.

7. **DELETE** Drawing Sheet S1.9 – FLOOR & LOW ROOF FRAMING PLAN – AREA C; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet S1.9 – FLOOR & LOW ROOF FRAMING PLAN – AREA C; ADDENDUM #5, (Revision dated 04/15/2020).
 - **ADDED** additional “SW4” run and designation along north wall of penthouse above the platform/stage.
 - **REVISED** loading on LH joists below select mechanical units in penthouse.
8. **DELETE** Drawing Sheet S1.14 – ROOF FRAMING PLAN – AREA C; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet S1.14 – ROOF FRAMING PLAN – AREA C; ADDENDUM #5, (Revision dated 04/15/2020).
 - **ADDED** additional “SW4” run and designation along north wall of penthouse above the platform/stage.
 - **REVISED** lintel sizes along north wall of penthouse above the platform/stage.
9. **REVISE** Drawing Sheet Sx.1 – PARTIAL FOUNDATION & ROOF FRAMING PLANS - AREA E -ADD ALT; Issued for Bid, dated 03/06/2020.
 - **ADD** reference to detail 6/S3.3 to foundation condition below curtain wall between column lines 44 and 43, near AE.

3.3 MECHANICAL

1. **REVISE** Drawing Sheet M3.1 – PART PLAN – PENTHOUSE A; Issued for Bid, dated 03/06/2020.
 - **DELETE** duplicate equipment overlapping DOAS-9 from “Penthouse Plan - Lower Level – Area A.”
 - **REVISE** all instances of drawing note bubbles “24” to “13”.
 - **REVISE** all instance of drawing note “25” to “14”.
 - **DELETE** items “24” and “25” from “Drawing Notes” list.
 - **DELETE** drawing notes “20” and “21” from north wall of “Penthouse Plan - Lower Level – Area A.”
2. **REVISE** Drawing Sheet M3.2 – PENTHOUSE PLAN – LOWER LEVEL – AREA C; Issued for Bid, dated 03/06/2020.
 - **ADD** drawing note bubble 30 to SSCU-3 concrete pad.

3.4 ELECTRICAL

1. **REVISE** Drawing Sheet E1.4 – FIRST FLOOR PLAN – AREA D – POWER; Issued for Bid, dated 03/06/2020.
 - **ADD** drawing Notes #3 and #4 and associate with each motorized backboards.
2. **REVISE** Drawing Sheet E1.10 – ROOF PLAN – AREA A - ELECTRICAL; Issued for Bid, dated 03/06/2020.
 - **REMOVE** duplicate equipment overlapping DOAS-9.
3. **REVISE** Drawing Sheet E5.1 – SCHEMATIC POWER RISER DIAGRAM; Issued for Bid, dated 03/06/2020.
 - **REVISE** Main Switchboard Schedule “Wire Size” for CKT 5 Panelboard KR to “Refer to XFMR Schedule”.
 - **REVISE** “Primary Wiring” for transformer TKR to “(3) #1/0 + #6GW - 2”C”.

- **REVISE** “Secondary Wiring” for transformer TKR to “(4) #4/0 + #2 SSBJ - 2 1/2”C”.
 - **REVISE** “Primary Wiring” for transformer TRRE to “(3) #1/0 + #6GW - 2”C”.
 - **REVISE** “Secondary Wiring” for transformer TRRE to “(4) #4/0 + #2 SSBJ - 2 1/2”C”.
4. **REVISE** Drawing Sheet E6.3 – ELECTRICAL DETAILS; Issued for Bid, dated 03/06/2020.
- **ADD** details for Teacher and Smartboard Drops on Sketch ADD 5.11 included with this addendum.

PART 4 ATTACHMENTS

4.1 SKETCHES

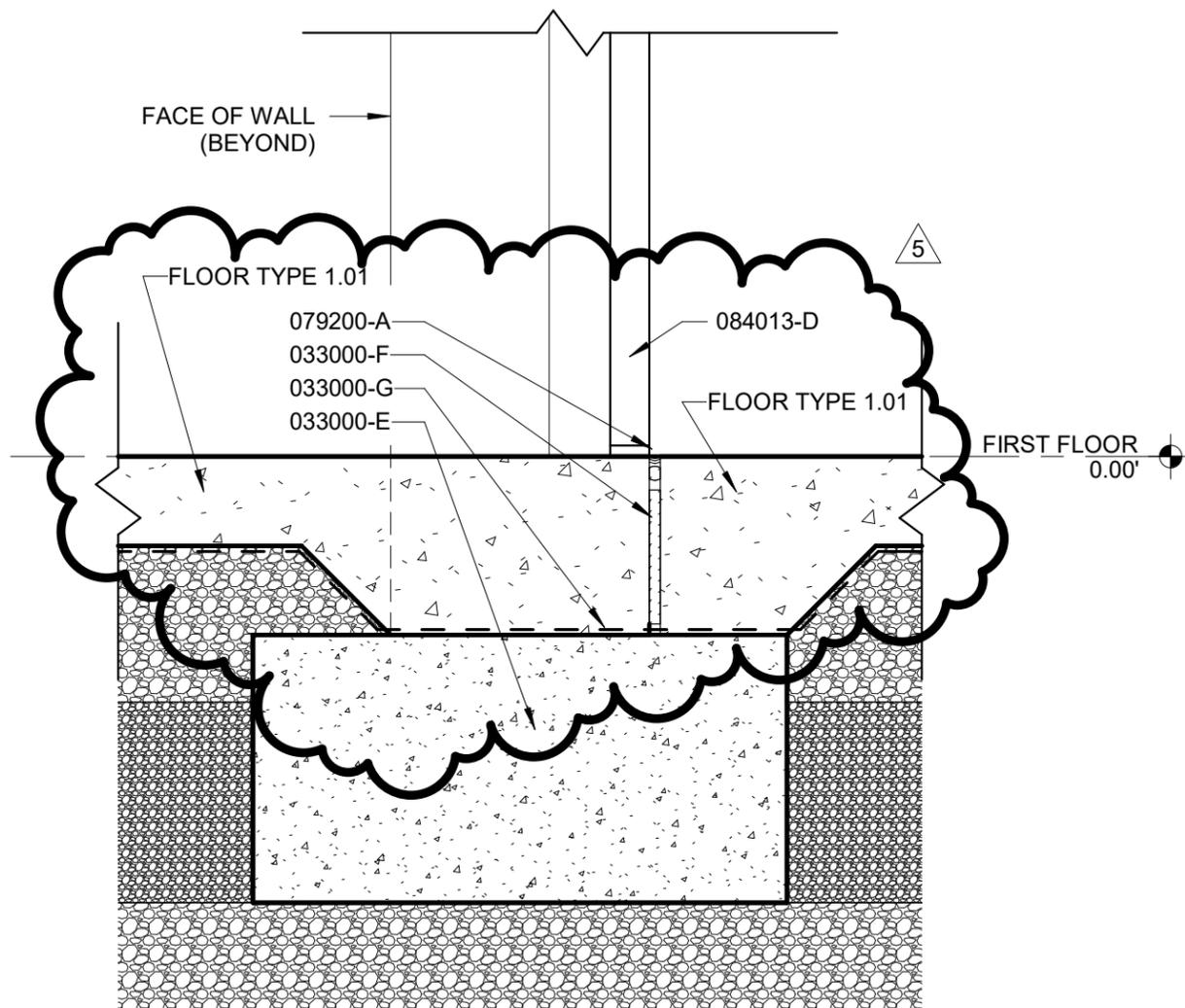
- ADD5.1 – FOUNDATION DETAILS
- ADD5.2 – FOUNDATION DETAILS
- ADD5.3 – FOUNDATION DETAILS
- ADD5.4 – FOUNDATION DETAILS
- ADD5.5 – FOUNDATION DETAILS
- ADD5.6 – FOUNDATION DETAILS
- ADD5.7 – FOUNDATION DETAILS
- ADD5.8 – FOUNDATION DETAILS
- ADD5.9 – FOUNDATION DETAILS
- ADD5.10 – SMARTBOARD & TEACHER DROPS
- ADD5.11 – FOUNDATION SCHEDULES

4.2 FULL SIZE DRAWINGS

- A5.2 – STAIR PLANS & SECTIONS
- A6.3 – PLAN DETAILS
- S1.2 – FOUNDATION PLAN – AREA B
- S1.9 – FLOOR & LOW ROOF FRAMING PLAN – AREA C
- S1.14 – ROOF FRAMING PLAN – AREA C

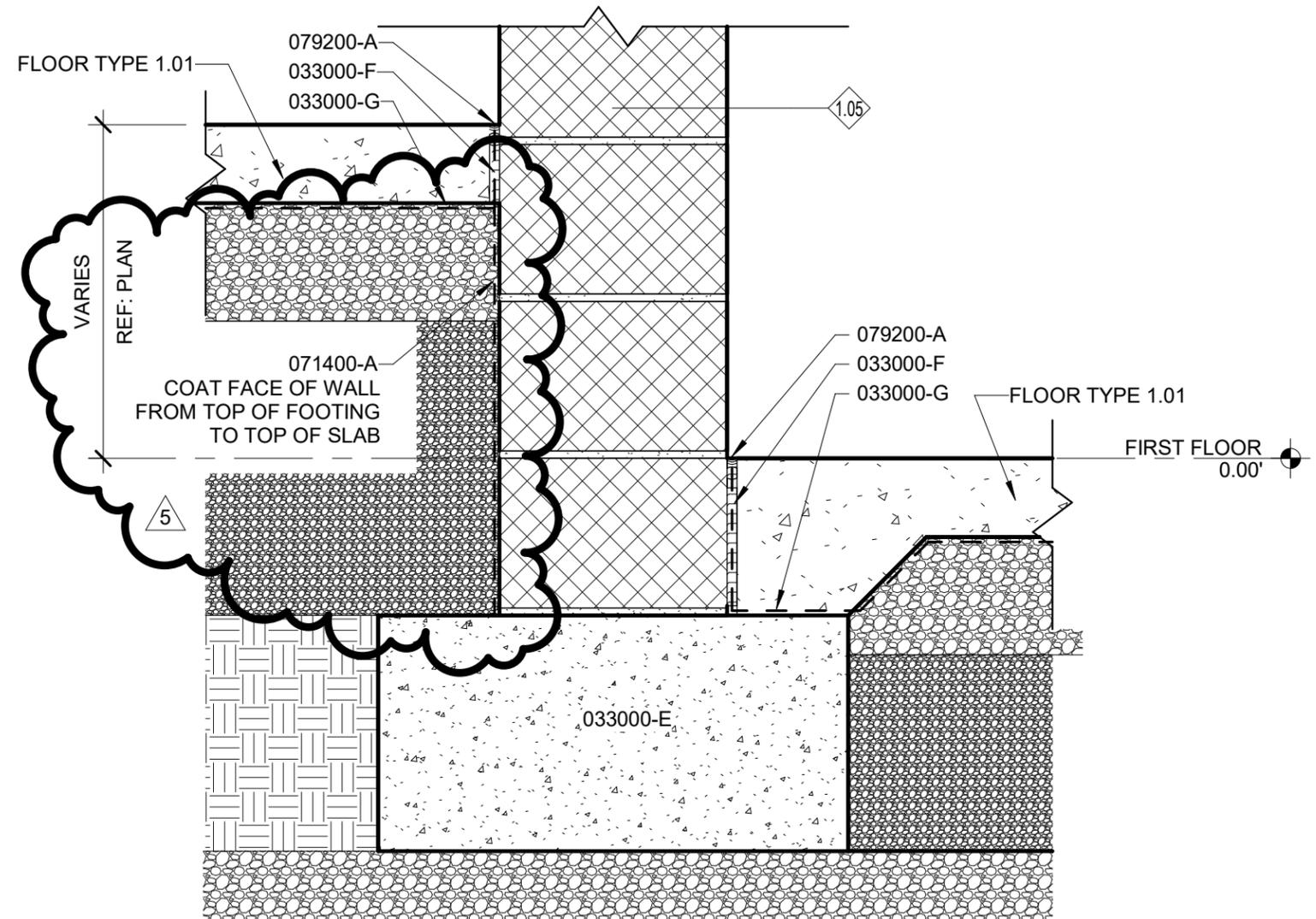
All other specifications and terms remain as stated in the original documents. This addendum is hereby made a part of the Contract Documents, on which the contract is based and is intended to modify, explain, correct and/or add to the original Contract Documents.

END OF ADDENDUM



1 SECTION DETAIL

ADD5.1 1 1/2" = 1'-0"
DETAIL 10/A6.16



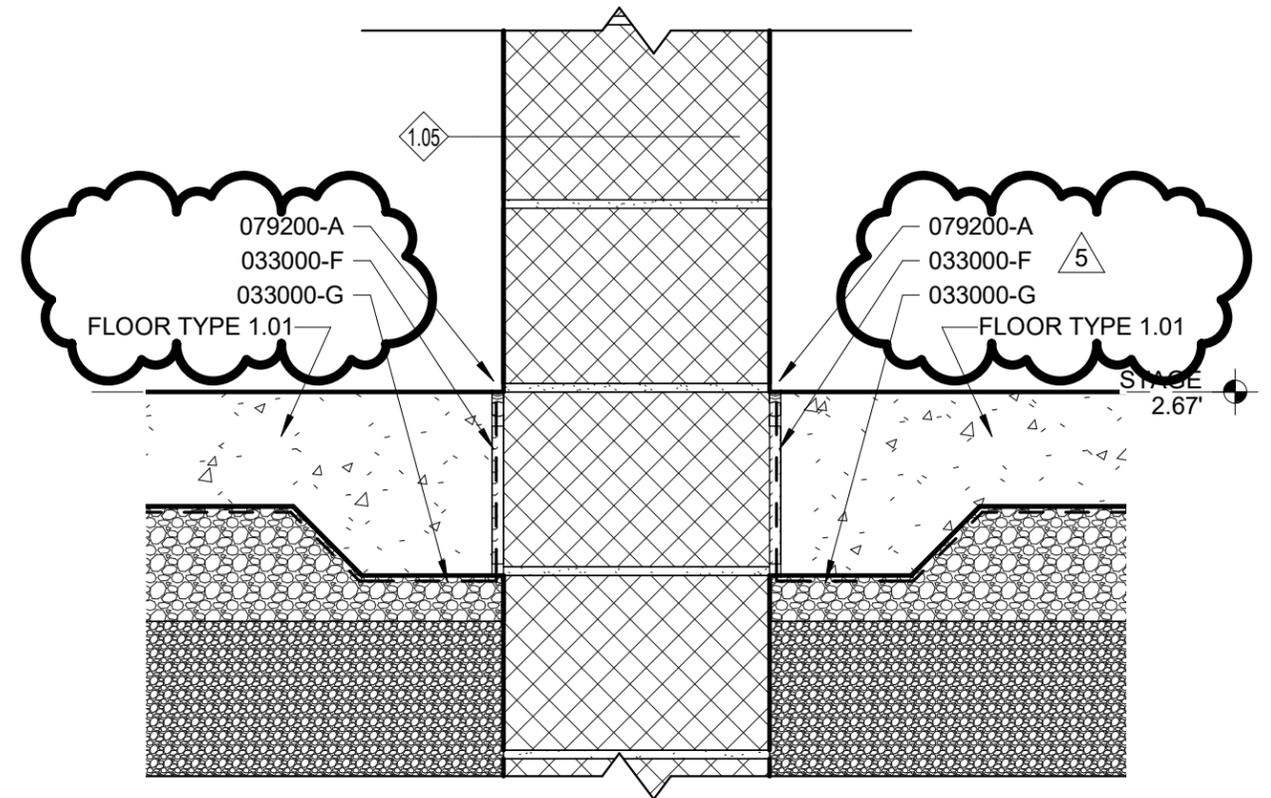
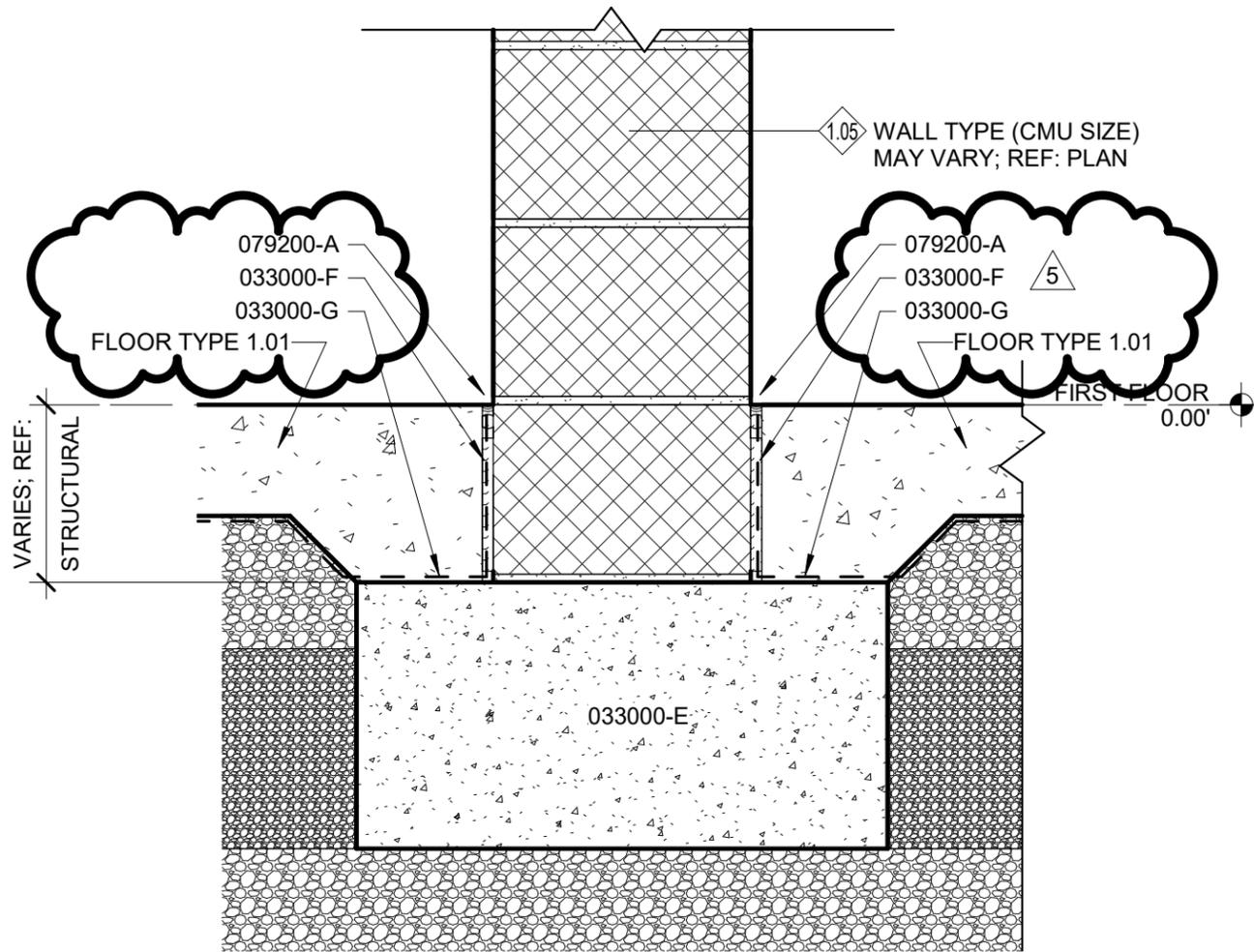
2 SECTION DETAIL

ADD5.1 1 1/2" = 1'-0"
DETAIL 9/A6.17

KEYNOTES (FOR REFERENCE ONLY)

- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-F EXPANSION JOINT MATERIAL, 1/2" UNO
- 033000-G UNDER SLAB VAPOR BARRIER
- 071400-A FLUID-APPLIED WATERPROOFING
- 079200-A JOINT SEALANT AND BACKER ROD
- 084013-D RATED ALUMINUM DOORS

DRAWING: FOUNDATION DETAILS	REV #	DATE	Addendum #5	
	5	04/15/2020		
PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE:	1 1/2" = 1'-0"	SKETCH NO. ADD5.1	
	JOB NO.	#18045		



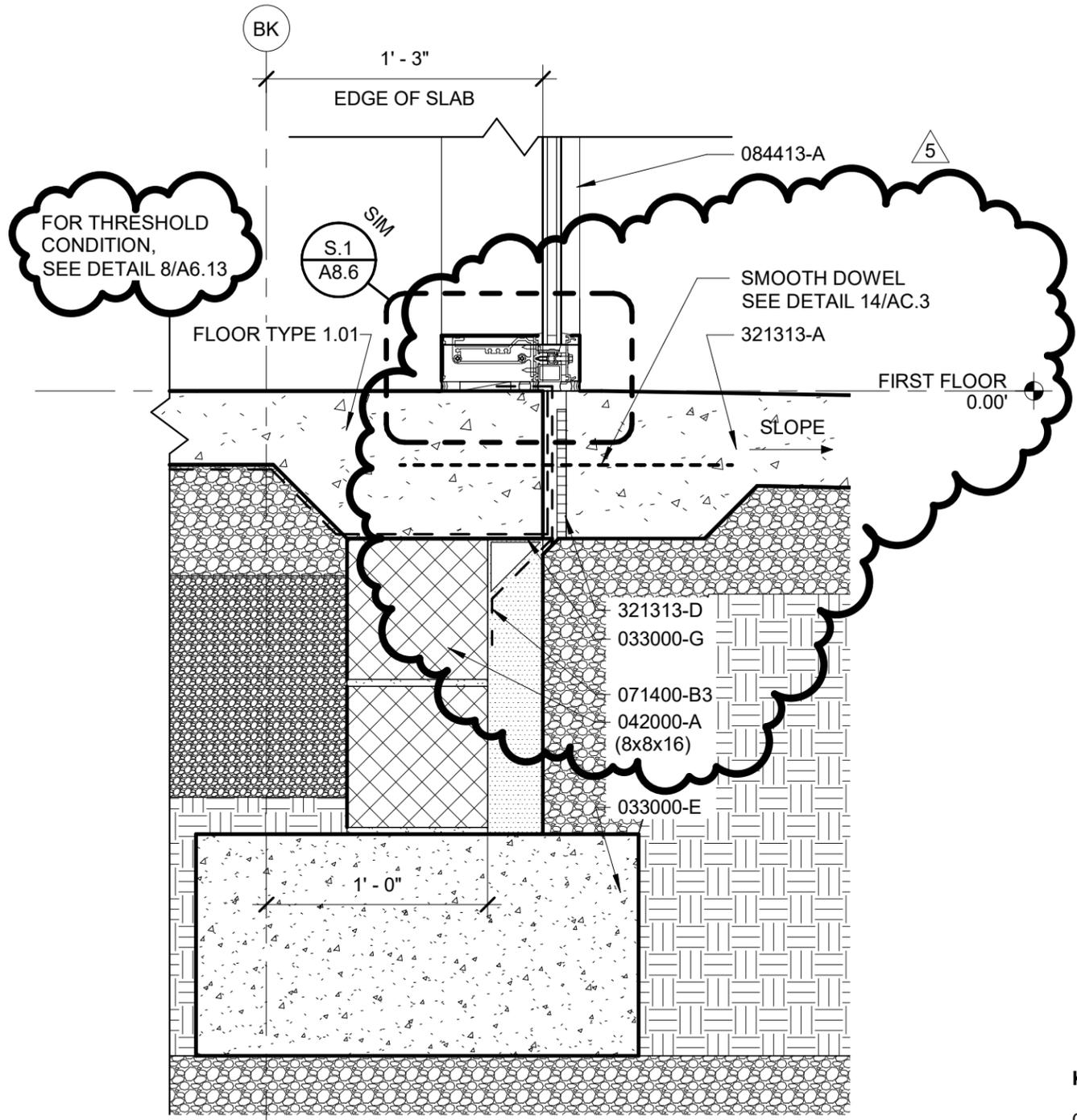
1 SECTION DETAIL
 ADD5.2 1 1/2" = 1'-0"
 DETAIL 7/A6.16

2 SECTION DETAIL
 ADD5.2 1 1/2" = 1'-0"
 DETAIL 3/A6.16

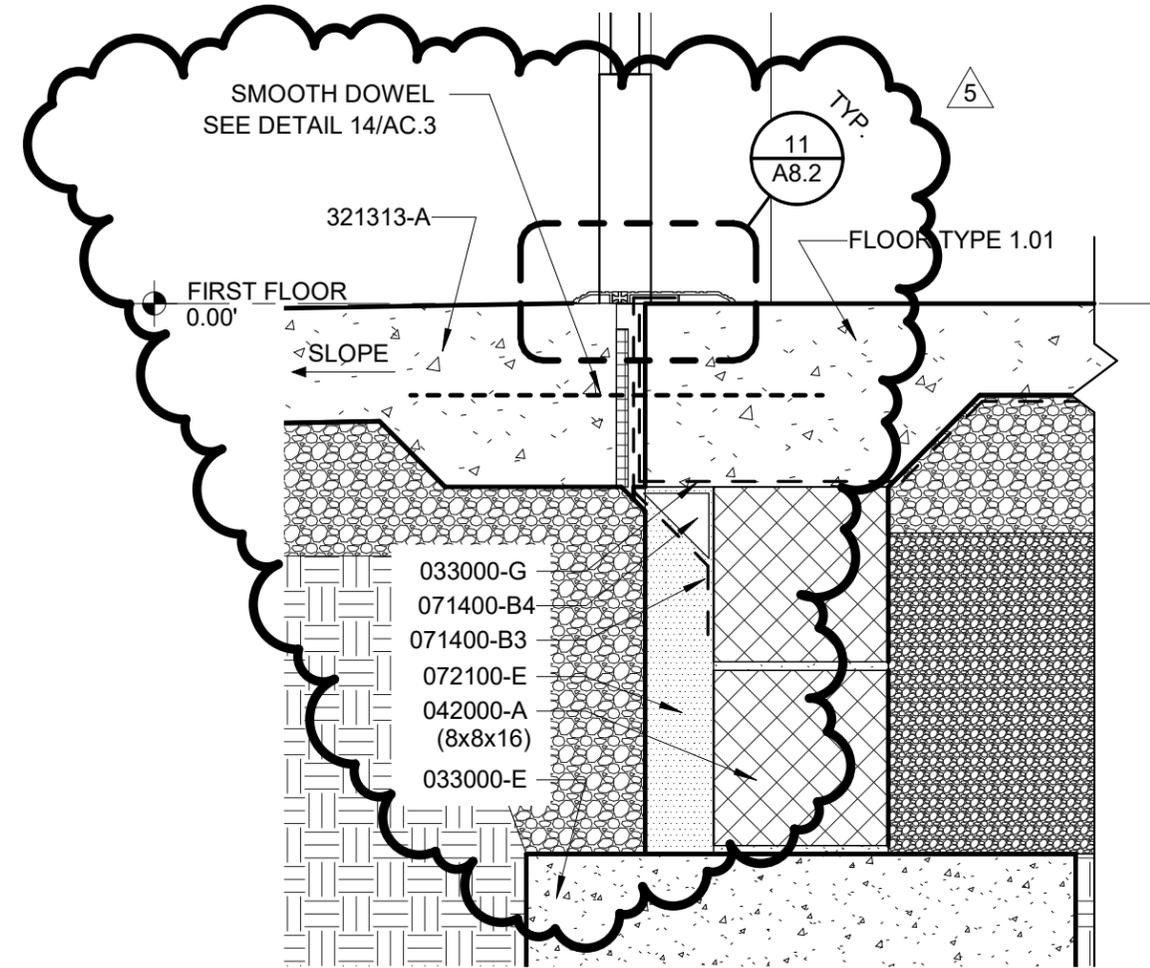
KEYNOTES (FOR REFERENCE ONLY)

- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-F EXPANSION JOINT MATERIAL, 1/2" UNO
- 033000-G UNDER SLAB VAPOR BARRIER
- 079200-A JOINT SEALANT AND BACKER ROD

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	
	PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"		
	JOB NO. #18045			



1 SECTION DETAIL
 ADD5.3 1 1/2" = 1'-0"
 DETAIL 10/A6.12

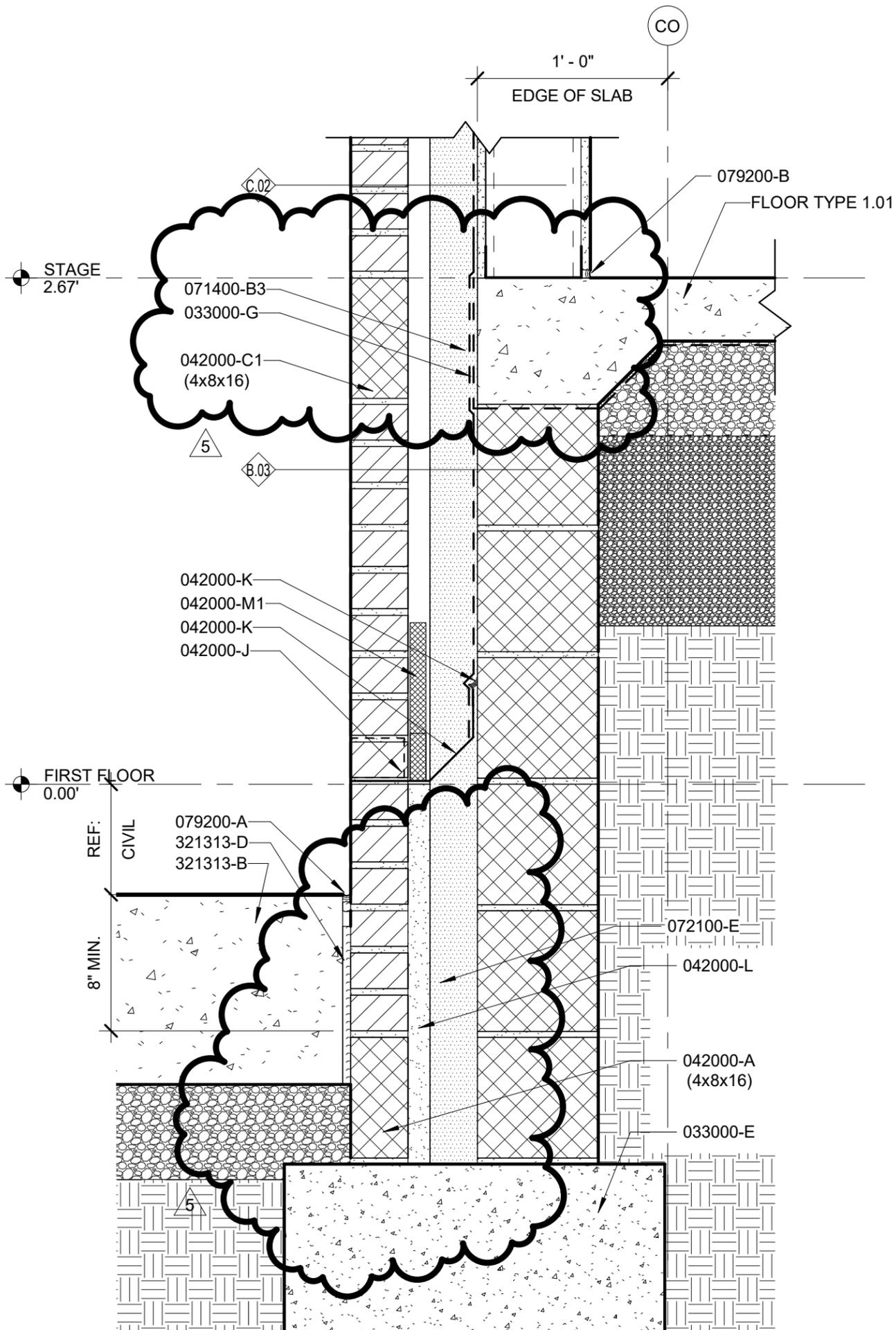


2 SECTION DETAIL
 ADD5.3 1 1/2" = 1'-0"
 DETAIL 8/A6.13

KEYNOTES (FOR REFERENCE ONLY)

- | | |
|--|--|
| 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION) | 072100-E MINERAL WOOL INSULATION |
| 033000-G UNDER SLAB VAPOR BARRIER | 084413-A GLAZED ALUMINUM CURTAIN WALL |
| 042000-A CONCRETE MASONRY UNIT, SIZE AS INDICATED | 321313-A CONCRETE SIDEWALK (REFER TO CIVIL FOR MORE INFORMATION) |
| 071400-B3 JOINT COVER SHEET | 321313-D ISOLATION JOINT (REFER TO CIVIL FOR MORE INFORMATION) |
| 071400-B4 CANT STRIP | |

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	G W W O
	PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"		
	JOB NO.	#18045		

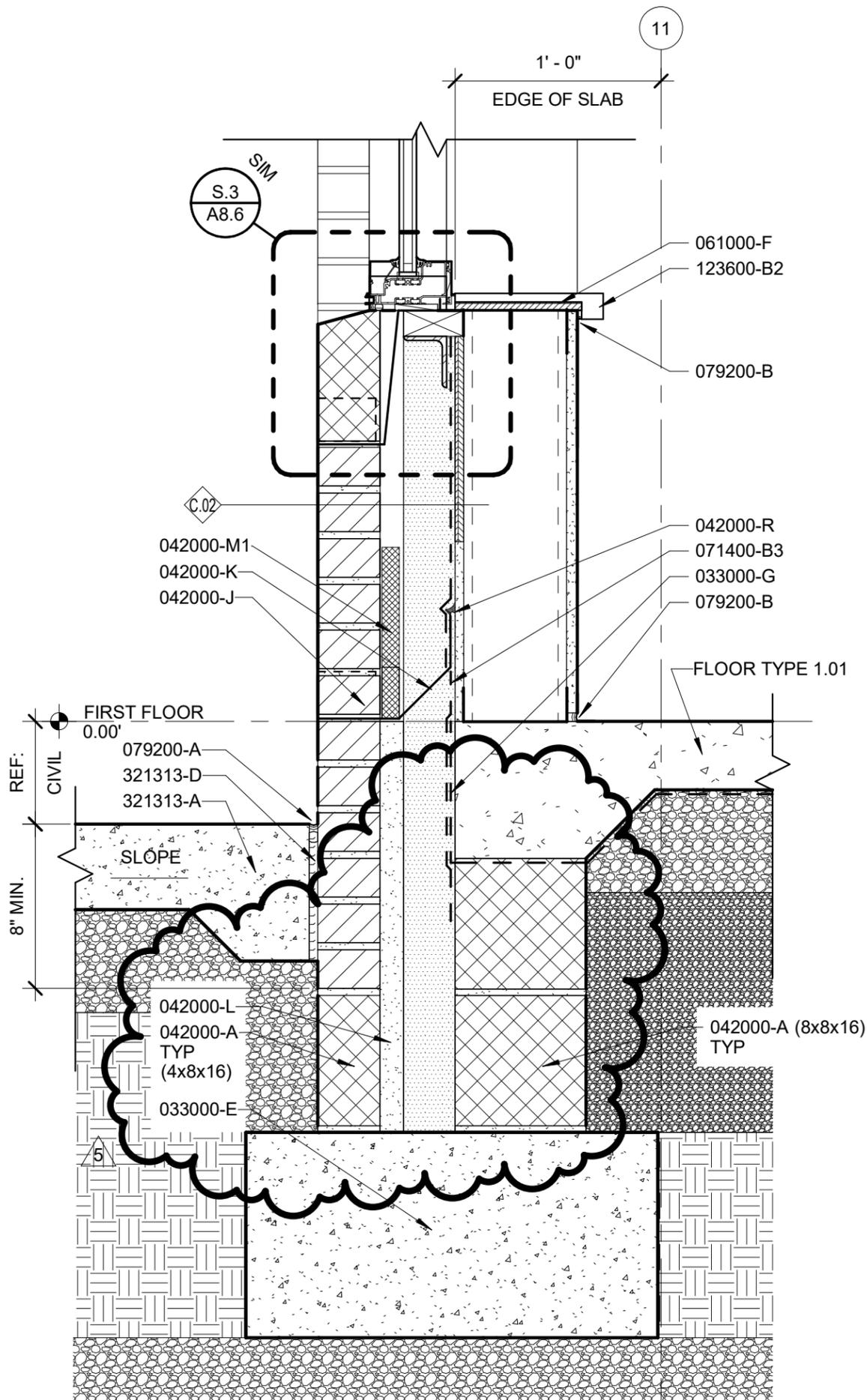


1 SECTION DETAIL
 ADD5.4 1 1/2" = 1'-0"
 DETAIL 6/A6.12

KEYNOTES (FOR REFERENCE ONLY)

- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-G UNDER SLAB VAPOR BARRIER
- 042000-A CONCRETE MASONRY UNIT, SIZE AS INDICATED
- 042000-C1 DECORATIVE CMU 1, SIZE AS INDICATED
- 042000-J WEEP VENT
- 042000-K FLEXIBLE METAL FLASHING
- 042000-L CEMENTITIOUS GROUT
- 042000-M CAVITY MORTAR CONTROL 1
- 071400-B3 JOINT COVER SHEET
- 072100-E MINERAL WOOL INSULATION
- 079200-A JOINT SEALANT AND BACKER ROD
- 079200-B JOINT SEALANT
- 321313-B CONCRETE MOW STRIP (REFER TO AC SERIES & CIVIL FOR MORE INFORMATION)
- 321313-D ISOLATION JOINT (REFER TO CIVIL FOR MORE INFORMATION)

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	
	PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"		
	JOB NO. #18045			

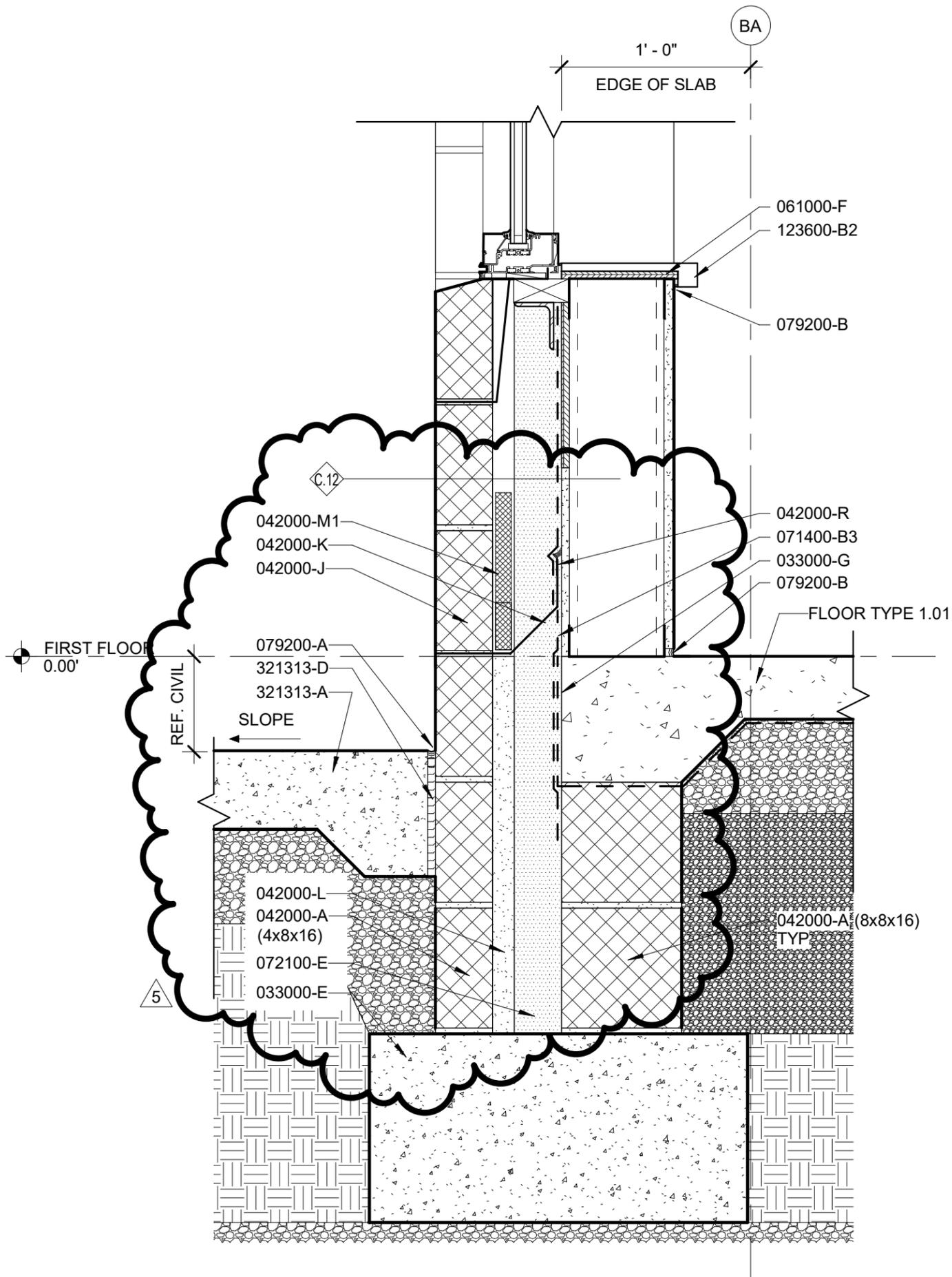


1 SECTION DETAIL
 ADD5.5 1 1/2" = 1'-0"
 DETAIL 1/A6.12

KEYNOTES (FOR REFERENCE ONLY)

- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-G UNDER SLAB VAPOR BARRIER
- 042000-A CONCRETE MASONRY UNIT, SIZE AS INDICATED
- 042000-J WEEP VENT
- 042000-K FLEXIBLE METAL FLASHING
- 042000-L CEMENTITIOUS GROUT
- 042000-M CAVITY MORTAR CONTROL
1
- 042000-R TERMINATION BAR WITH CONT BEAD OF SEALANT
- 061000-F PLYWOOD SHEATHING; FIRE-RETARDANT TREATED; 1/2" UNO
- 071400-B3 JOINT COVER SHEET
- 079200-A JOINT SEALANT AND BACKER ROD
- 079200-B JOINT SEALANT
- 123600-B2 SOLID SURFACING SILL
- 321313-A CONCRETE SIDEWALK (REFER TO CIVIL FOR MORE INFORMATION)
- 321313-D ISOLATION JOINT (REFER TO CIVIL FOR MORE INFORMATION)

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	G W W O
	PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"		
	JOB NO.	#18045		

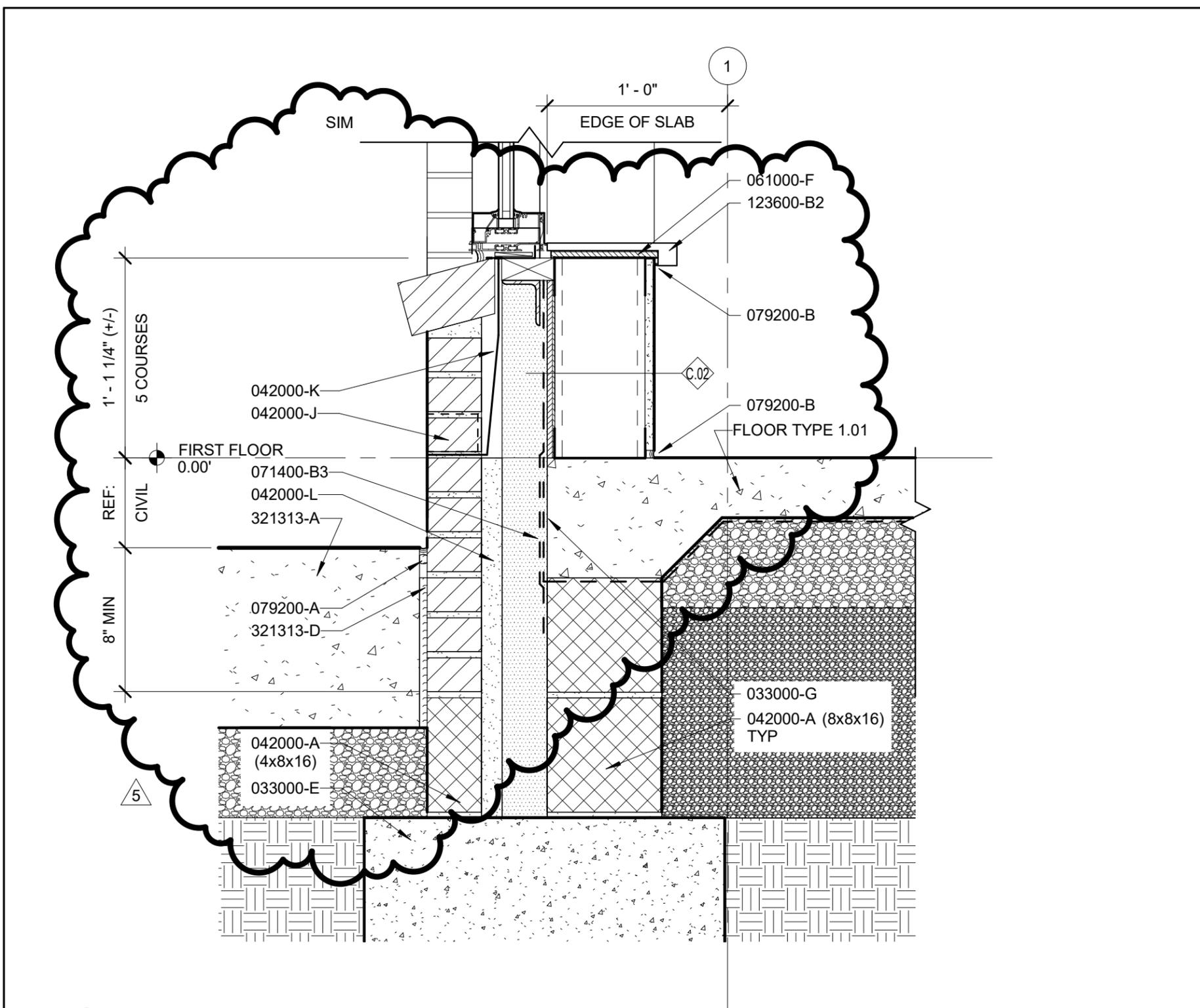


1 SECTION DETAIL
 ADD5.6 1 1/2" = 1'-0"
 DETAIL 5/A6.12

KEYNOTES (FOR REFERENCE ONLY)

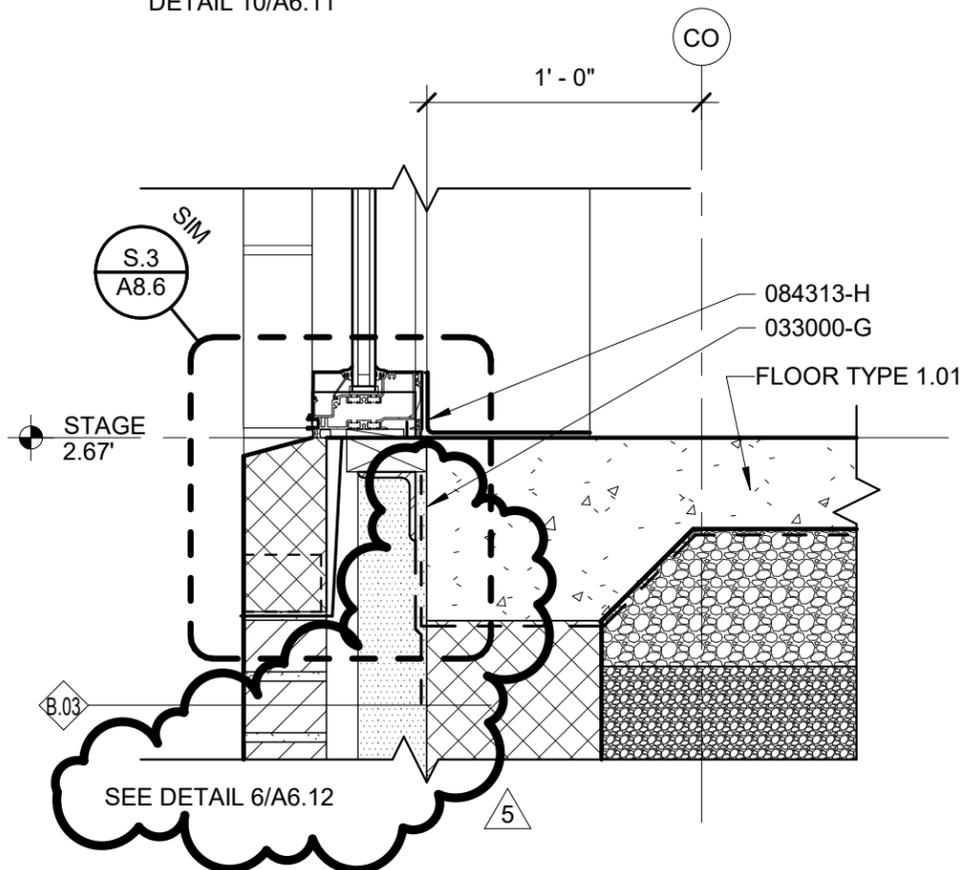
- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-G UNDER SLAB VAPOR BARRIER
- 042000-A CONCRETE MASONRY UNIT, SIZE AS INDICATED
- 042000-J WEEP VENT
- 042000-K FLEXIBLE METAL FLASHING
- 042000-L CEMENTITIOUS GROUT
- 042000-M CAVITY MORTAR CONTROL
1
- 042000-R TERMINATION BAR WITH CONT BEAD OF SEALANT
- 061000-F PLYWOOD SHEATHING; FIRE-RETARDANT TREATED; 1/2" UNO
- 071400-B3 JOINT COVER SHEET
- 072100-E MINERAL WOOL INSULATION
- 079200-A JOINT SEALANT AND BACKER ROD
- 079200-B JOINT SEALANT
- 123600-B2 SOLID SURFACING SILL
- 321313-A CONCRETE SIDEWALK (REFER TO CIVIL FOR MORE INFORMATION)
- 321313-D ISOLATION JOINT (REFER TO CIVIL FOR MORE INFORMATION)

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	
PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"	JOB NO. #18045	SKETCH NO. ADD5.6	



1 SECTION DETAIL

ADD5.7 1 1/2" = 1'-0"
DETAIL 10/A6.11



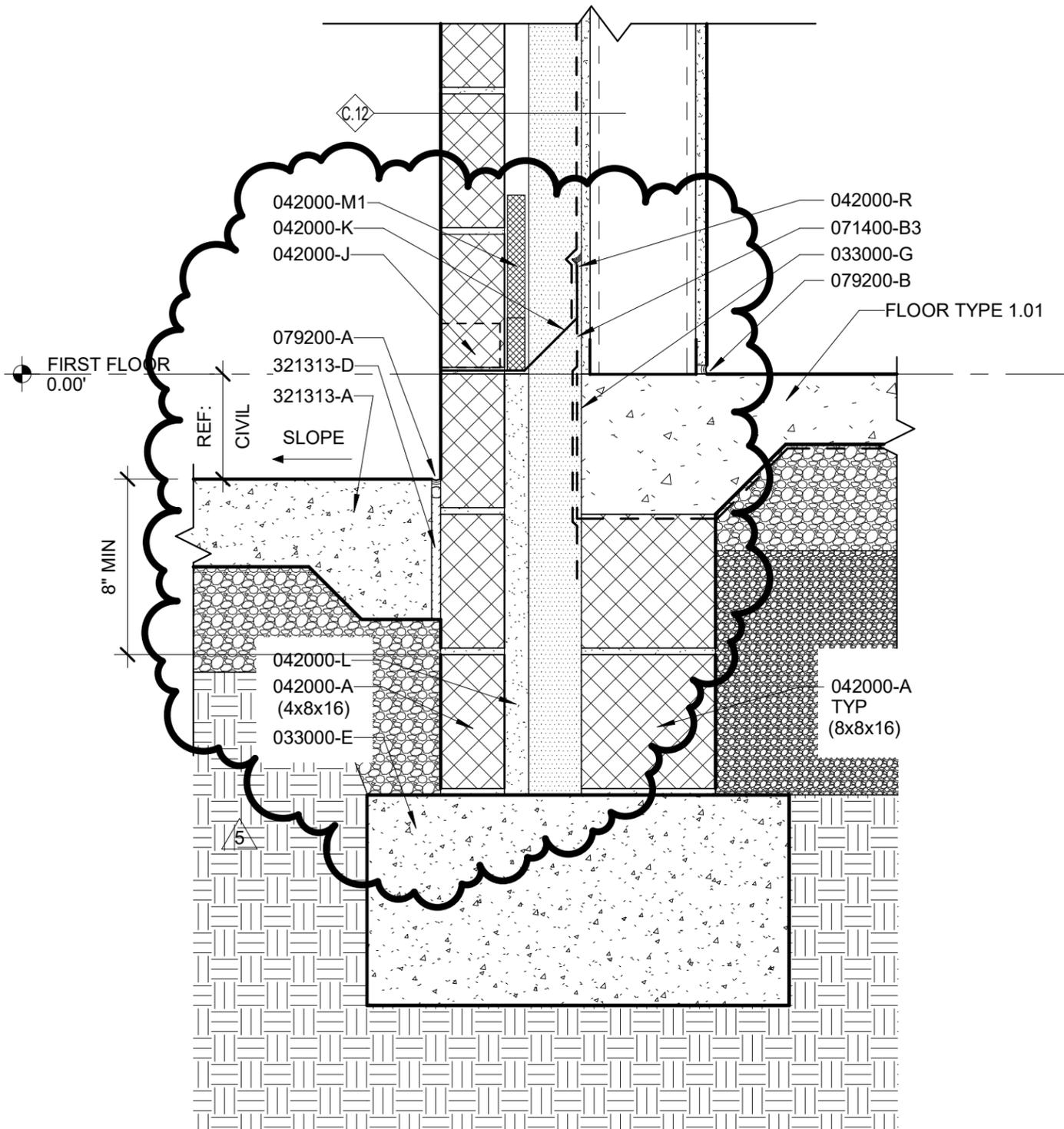
2 SECTION DETAIL

ADD5.7 1 1/2" = 1'-0"
DETAIL 12/A6.12

KEYNOTES (FOR REFERENCE ONLY)

- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-G UNDER SLAB VAPOR BARRIER
- 042000-A CONCRETE MASONRY UNIT, SIZE AS INDICATED
- 042000-J WEEP VENT
- 042000-K FLEXIBLE METAL FLASHING
- 042000-L CEMENTITIOUS GROUT
- 061000-F PLYWOOD SHEATHING; FIRE-RETARDANT TREATED; 1/2" UNO
- 071400-B3 JOINT COVER SHEET
- 079200-A JOINT SEALANT AND BACKER ROD
- 079200-B JOINT SEALANT
- 084313-H BRAKE METAL, FINISH TO MATCH STOREFRONT
- 123600-B2 SOLID SURFACING SILL
- 321313-A CONCRETE SIDEWALK (REFER TO CIVIL FOR MORE INFORMATION)
- 321313-D ISOLATION JOINT (REFER TO CIVIL FOR MORE INFORMATION)

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	G W W O
	PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"		
	JOB NO.	#18045		

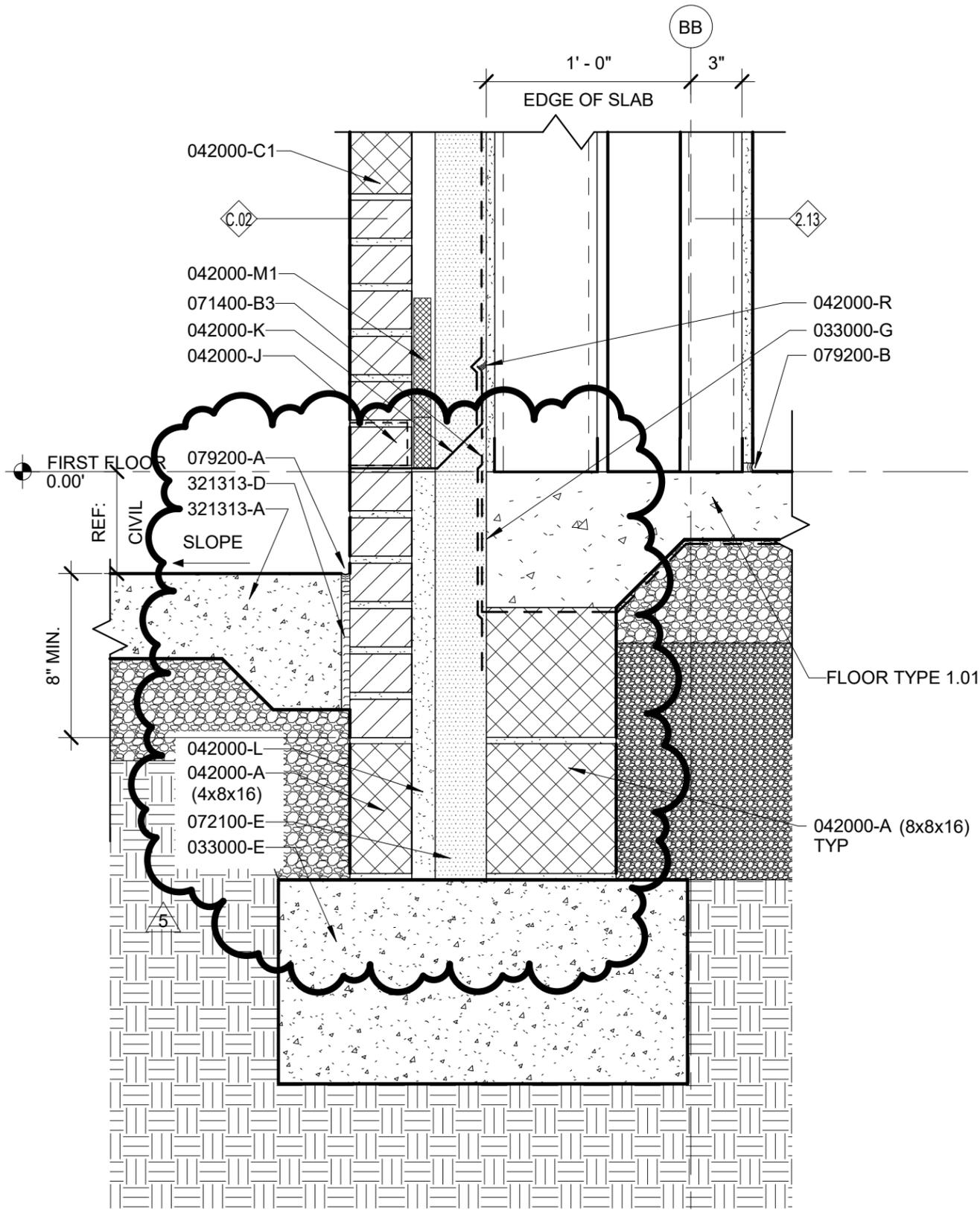


1 SECTION DETAIL
 ADD5.8 1 1/2" = 1'-0"
 DETAIL 12/A6.11

KEYNOTES (FOR REFERENCE ONLY)

- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-G UNDER SLAB VAPOR BARRIER
- 042000-A CONCRETE MASONRY UNIT, SIZE AS INDICATED
- 042000-J WEEP VENT
- 042000-K FLEXIBLE METAL FLASHING
- 042000-L CEMENTITIOUS GROUT
- 042000-M1 CAVITY MORTAR CONTROL
- 042000-R TERMINATION BAR WITH CONT BEAD OF SEALANT
- 071400-B3 JOINT COVER SHEET
- 079200-A JOINT SEALANT AND BACKER ROD
- 079200-B JOINT SEALANT
- 321313-A CONCRETE SIDEWALK (REFER TO CIVIL FOR MORE INFORMATION)
- 321313-D ISOLATION JOINT (REFER TO CIVIL FOR MORE INFORMATION)

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	G W W O
	PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"		
	JOB NO.	#18045		



1 SECTION DETAIL
 ADD5.9 1 1/2" = 1'-0"
 DETAIL 9/A6.11

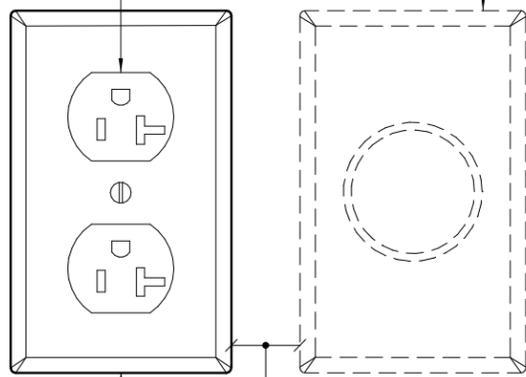
KEYNOTES (FOR REFERENCE ONLY)

- 033000-E CONCRETE FOOTING (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 033000-G UNDER SLAB VAPOR BARRIER
- 042000-A CONCRETE MASONRY UNIT, SIZE AS INDICATED
- 042000-C1 DECORATIVE CMU 1, SIZE AS INDICATED
- 042000-J WEEP VENT
- 042000-K FLEXIBLE METAL FLASHING
- 042000-L CEMENTITIOUS GROUT
- 042000-M1 CAVITY MORTAR CONTROL
- 042000-R TERMINATION BAR WITH CONT BEAD OF SEALANT
- 071400-B3 JOINT COVER SHEET
- 072100-E MINERAL WOOL INSULATION
- 079200-A JOINT SEALANT AND BACKER ROD
- 079200-B JOINT SEALANT
- 321313-A CONCRETE SIDEWALK (REFER TO CIVIL FOR MORE INFORMATION)
- 321313-D ISOLATION JOINT (REFER TO CIVIL FOR MORE INFORMATION)

DRAWING: FOUNDATION DETAILS	REV # 5	DATE 04/15/2020	Addendum #5	G W W O
	PROJECT: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT	SCALE: 1 1/2" = 1'-0"		
	JOB NO.	#18045		

20A, 125V, 2P, 3W NEMA
5-20R DUPLEX
RECEPTACLE

REFER TO TELECOM DETAILS
FOR ADDITIONAL
INFORMATION



TYPE 302
STAINLESS STEEL

MAINTAIN 2" MAXIMUM
EQUAL SPACING BETWEEN
COVERPLATES (TYPICAL)

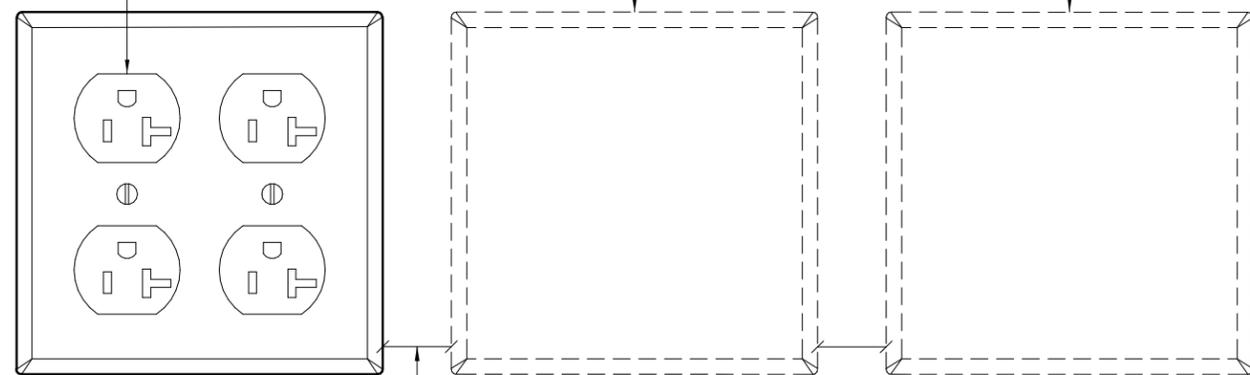
PLAN SYMBOL:

7 SMARTBOARD DROP
E6.3 Scale = None

20A, 125V, 2P, 3W NEMA
5-20R DUPLEX
RECEPTACLE (TYPICAL)

REFER TO TELECOM DETAILS
FOR ADDITIONAL
INFORMATION

REFER TO TELECOM DETAILS
FOR ADDITIONAL
INFORMATION



TYPE 302 STAINLESS
STEEL (TYPICAL)

MAINTAIN 2" MAXIMUM EQUAL
SPACING BETWEEN
COVERPLATES (TYPICAL)

PLAN SYMBOL:

8 TEACHER DROP
E6.3 Scale = None

5

DRAWING:
SMARTBOARD & TEACHER DROPS

PROJECT:
WAVERLEY ELEMENTARY SCHOOL
REPLACEMENT

REV #	DATE
5	04/15/2020
SCALE:	
JOB NO.	#18045

Addendum
#5

SKETCH NO.
ADD5.10



COLUMN SCHEDULE

MARK	TYPE	BASE PLATE (N X B X THK.)	ANCHOR BOLTS
C1	HSS6X6X5/16	12" X 12" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS
C1A	HSS6X6X5/16 A	12" X 10" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS
C2	HSS6X6X1/2	12" X 12" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS
C3	HSS8X8X1/2	14" X 14" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS
C3A	HSS8X8X1/2 A	16" X 16" X 1"	(8) 1 1/8" Ø F1554 GR. 55 ANCHOR BOLTS
C4	HSS10X10X1/2	16" X 16" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS

NOTES:

- WHERE COLUMNS ARE WITHIN MASONRY WALLS, PROVIDE 3/4" Ø X 0'-4" LONG SHEAR STUDS @ 16" O.C.

PIER SCHEDULE

MARK	SIZE	REINFORCING
P18	18" X 18" X HEIGHT VARIES	(8) #6 VERT. BARS W/ #3 TIES @ 12" O.C.
P20	20" X 20" X HEIGHT VARIES	(12) #6 VERT. BARS W/ #3 TIES @ 12" O.C.
P24A	24" X 24" X HEIGHT VARIES	(12) #7 VERT. BARS W/ #3 TIES @ 12" O.C.
P24B	24" X 18" X HEIGHT VARIES	(8) #7 VERT. BARS W/ #3 TIES @ 12" O.C.
P33	33" X 27" X HEIGHT VARIES	(16) #7 VERT. BARS W/ #3 TIES @ 12" O.C.
P34	34" X 24" X HEIGHT VARIES	(14) #7 VERT. BARS W/ #3 TIES @ 12" O.C.

COLUMN FOOTING SCHEDULE

MARK	DIMENSIONS			REINFORCING				REMARKS
	WIDTH	LENGTH	DEPTH	LONGITUDINAL (LONG WAY)		TRANSVERSE (SHORT WAY)		
				QUANTITY	SIZE	QUANTITY	SIZE	
CF4.0	4' - 0"	4' - 0"	1' - 0"	5	5	5	5	BOT. REINF.
CF5.0	5' - 0"	5' - 0"	1' - 0"	6	5	6	5	BOT. REINF.
CF5.0R	5' - 0"	6' - 4"	1' - 0"	6	5	7	5	BOT. REINF.
CF5.5	5' - 6"	5' - 6"	1' - 4"	6	6	6	6	BOT. REINF.
CF6.0R	6' - 0"	7' - 4"	1' - 4"	7	6	8	6	BOT. REINF.
CF6.5	6' - 6"	6' - 6"	1' - 6"	7	6	7	6	BOT. REINF.
CF6.5A	6' - 6"	6' - 6"	1' - 6"	7	6	7	6	TOP & BOT. REINF.
CF7.0R	7' - 0"	6' - 4"	1' - 6"	7	6	8	6	BOT. REINF.
CF8.0	8' - 0"	8' - 0"	1' - 8"	9	6	9	6	BOT. REINF.
CF10.0	10' - 0"	10' - 0"	2' - 0"	12	6	12	6	BOT. REINF.

DRAWING:
FOUNDATION SCHEDULES

PROJECT:
WAVERLEY ELEMENTARY SCHOOL
REPLACEMENT

REV # 5 DATE 04/15/2020

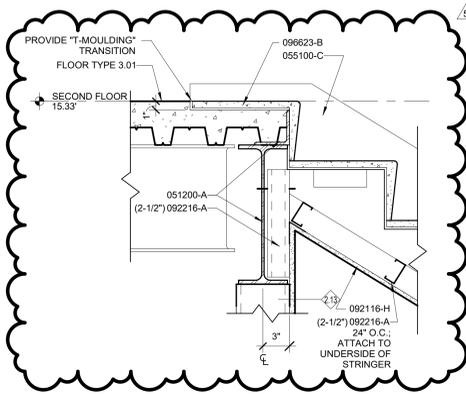
SCALE:

JOB NO. #18045

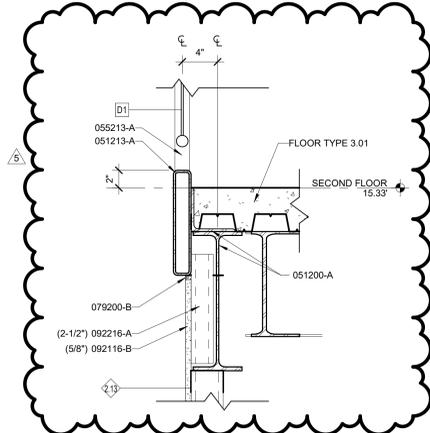
Addendum #5

SKETCH NO. ADD5.11

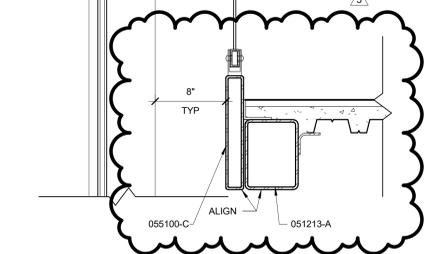
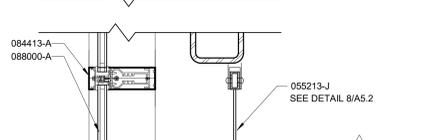
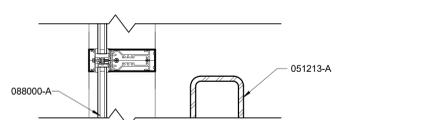




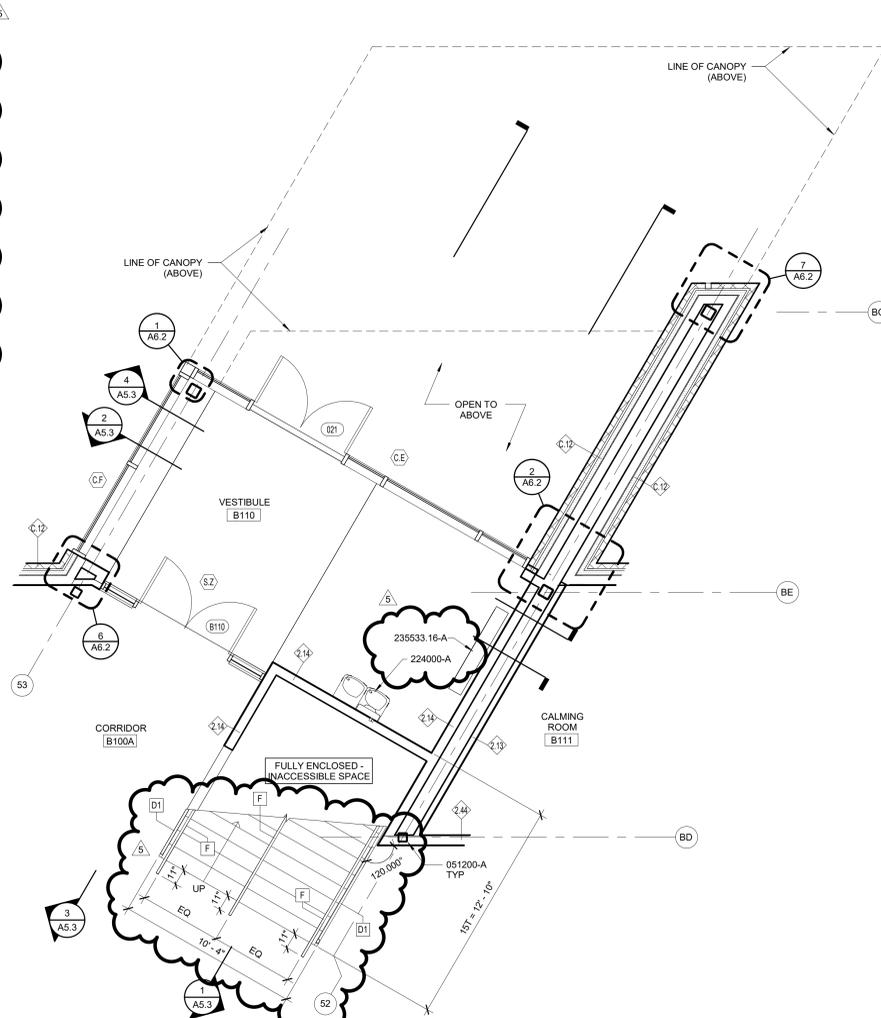
1 SECTION DETAIL
A5.2 / 1/12" = 1'-0"
FROM 3 / A5.3



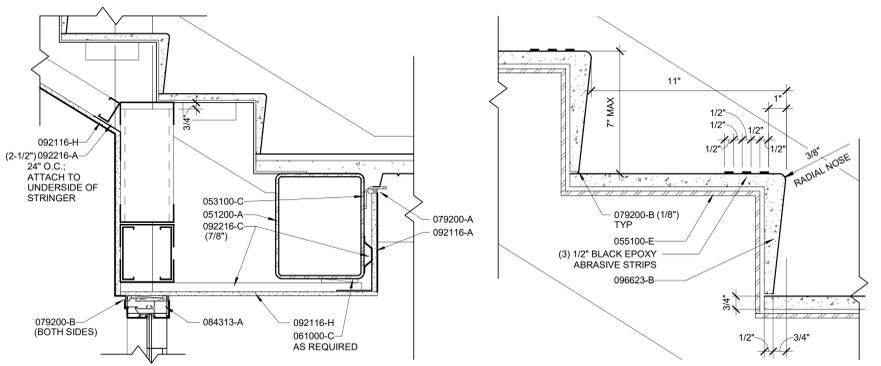
2 SECTION DETAIL
A5.2 / 1/12" = 1'-0"
FROM 1 / A5.3



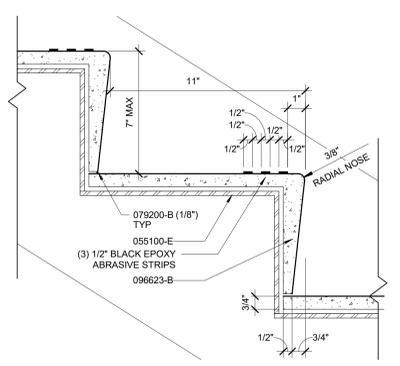
5 SECTION DETAIL
A5.2 / 1/12" = 1'-0"
FROM 3 / A4.5



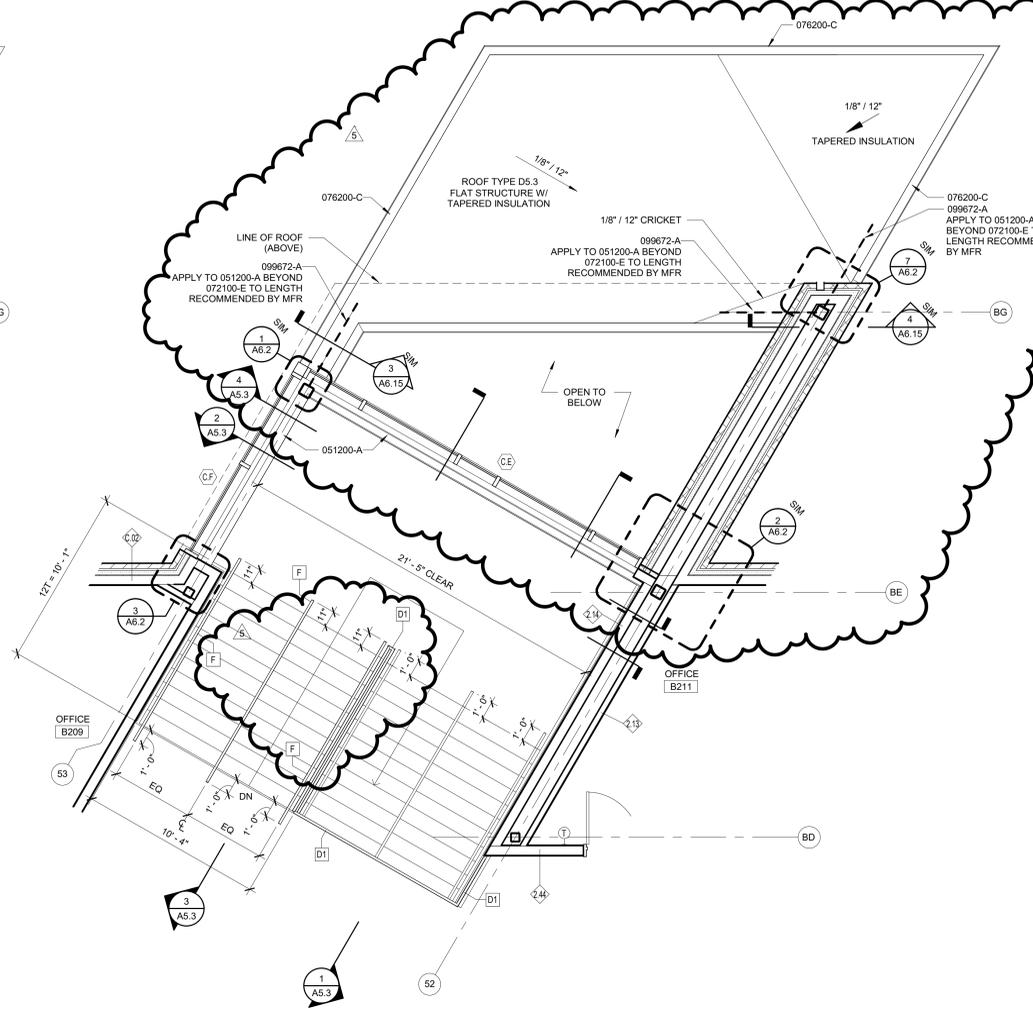
3 STAIR PLAN - AREA B - FIRST FLOOR
A5.2 / 1/4" = 1'-0"
FROM 1 / A1.2



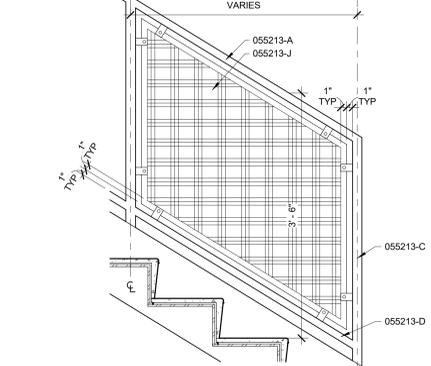
6 SECTION DETAIL
A5.2 / 1/12" = 1'-0"
FROM 3 / A5.3



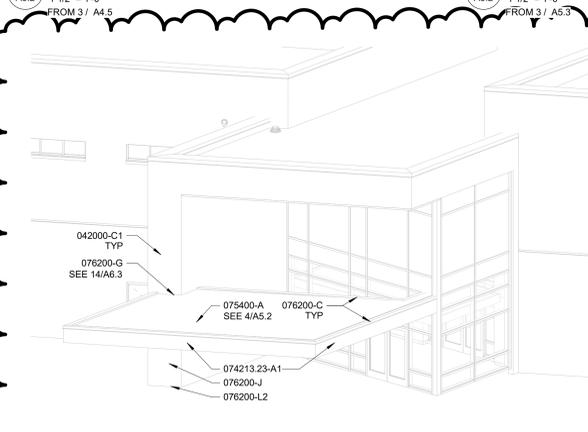
7 TREAD DETAIL
A5.2 / 3" = 1'-0"



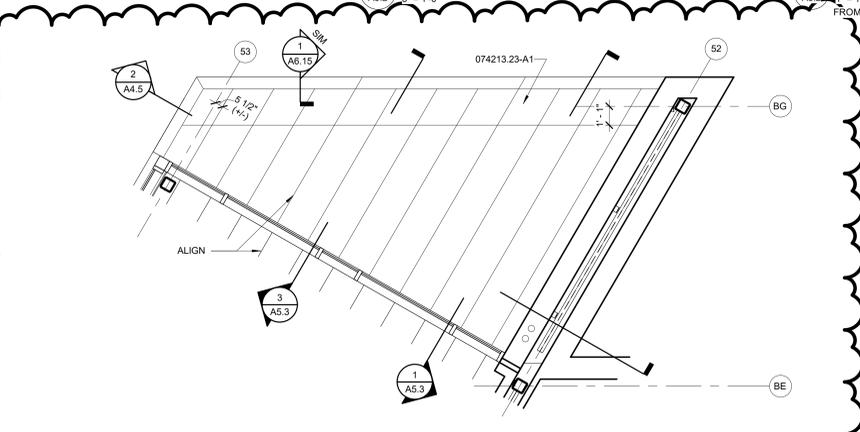
4 STAIR PLAN - AREA B - INTERMEDIATE LANDING
A5.2 / 1/4" = 1'-0"
FROM 1 / A1.8



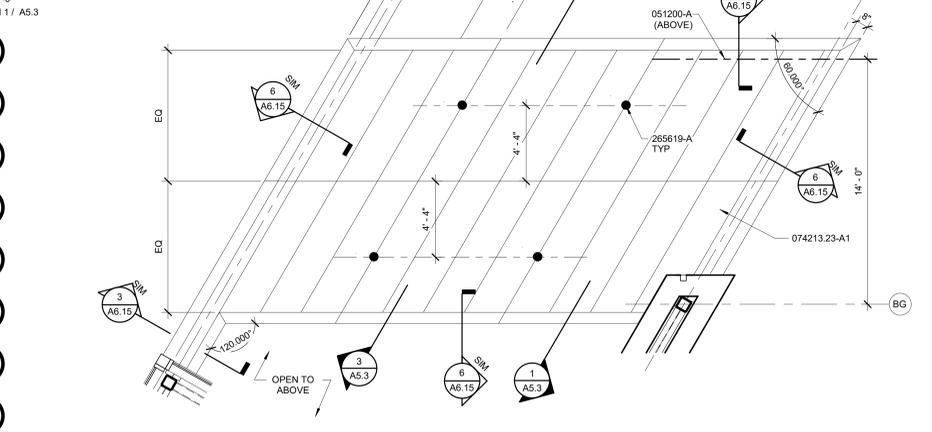
8 INFILL PANEL DETAIL
A5.2 / 1" = 1'-0"
FROM 1 / A5.3



9 3D DIAGRAM - AREA B - BUS ENTRY
A5.2 / 1/12" = 1'-0"



10 REFLECTED CEILING PLAN - AREA B - ROOF OVERHANG
A5.2 / 1/4" = 1'-0"
FROM 1 / A2.8

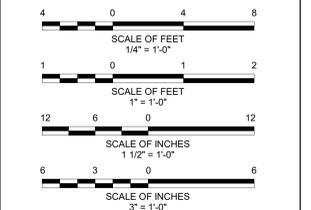


11 REFLECTED CEILING PLAN - MAIN / BUS ENTRY CANOPY
A5.2 / 1/4" = 1'-0"
FROM 1 / A2.2

KEY PLAN:

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET CS.2 FOR COMPLETE LIST

042000-C1	DECORATIVE CMU 1. SIZE AS INDICATED FOR STRUCTURAL STEEL (REFER TO STRUCTURAL FOR MORE INFORMATION)
051200-A	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (REFER TO STRUCTURAL FOR MORE INFORMATION)
053100-C	POUR STOP (REFER TO STRUCTURAL FOR MORE INFORMATION)
055100-C	STEEL STRINGER
055100-E	METAL PAN TREAD/RISER
055213-A	PTD STEEL GUARDRAIL SYSTEM
055213-C	VERTICAL STEEL PIPE, 1 1/4" NOMINAL
055213-D	STEEL PIPE RAIL, 1" NOMINAL
055213-J	METAL RAIL INFILL
061000-C	SHIM
074213.23-A1	METAL COMPOSITE WALL PANEL, SIZE AS INDICATED
075400-A	THERMOPLASTIC (TPO) MEMBRANE
076200-C	METAL COPING
076200-G	METAL SCUPPER, WELDED WATER TIGHT
076200-J	METAL DOWNSPOUT, 4" X 4" MINIMUM
076200-L2	DOWNSPOUT BOOT
079200-A	JOINT SEALANT AND BACKER ROD
079200-B	JOINT SEALANT
084313-A	GLAZED ALUMINUM-FRAMED STOREFRONT
084413-A	GLAZED ALUMINUM CURTAIN WALL
088000-A	GLAZING, REFER TO A8 SERIES FOR GL TYPE
092116-A	ABUSE RESISTANT WALLBOARD, 5/8" THICKNESS UNO
092116-B	GYPSON BOARD, TYPE "X", 5/8" THICKNESS UNO
092116-H	GYPSON CEILING BOARD, 1/2" THICKNESS UNO
092216-A	NON-STRUCTURAL METAL STUD, SIZE AS INDICATED
092216-C	HAT SHAPED METAL FURRING CHANNEL, SIZE AS INDICATED
096623-B	PRECAST RESINIOUS MATRIX TERRAZZO STAIR UNIT
099672-A	FLUID APPLIED ACRYLIC INSULATION COATING
224000-A	DRINKING FOUNTAIN
235533.16-A	UNIT HEATER
265619-A	EXTERIOR LIGHTING



ISSUED FOR BID

Seal:	
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G|W|O

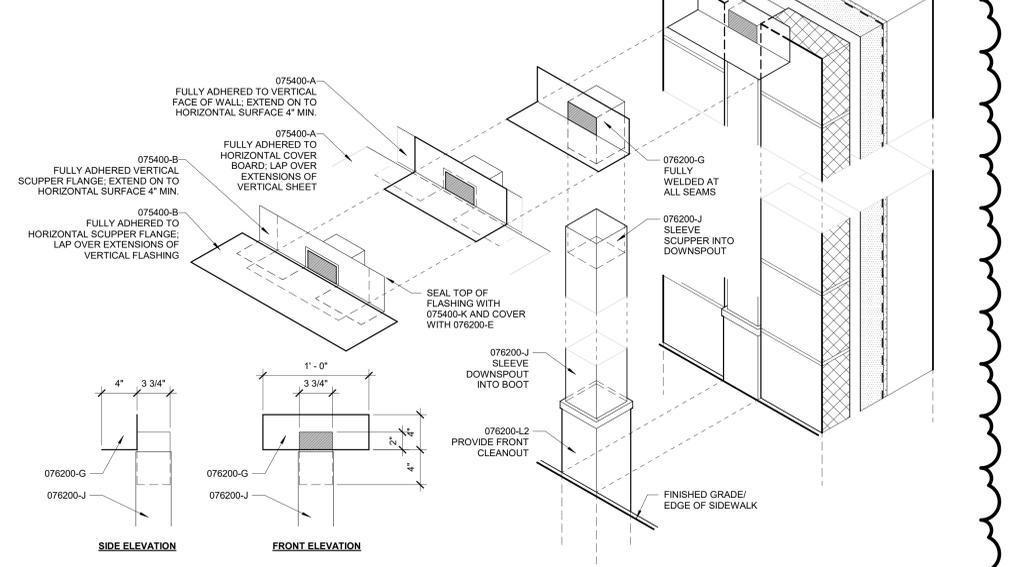
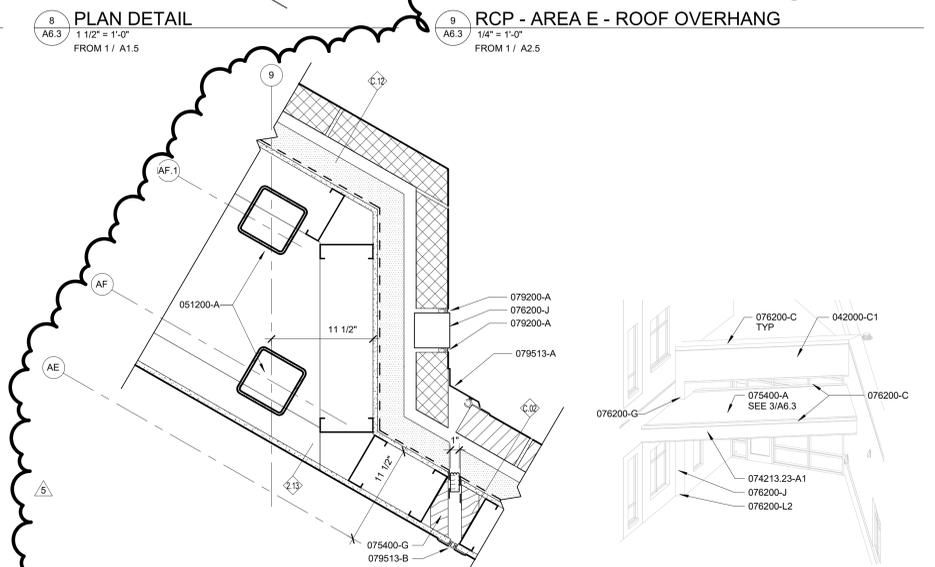
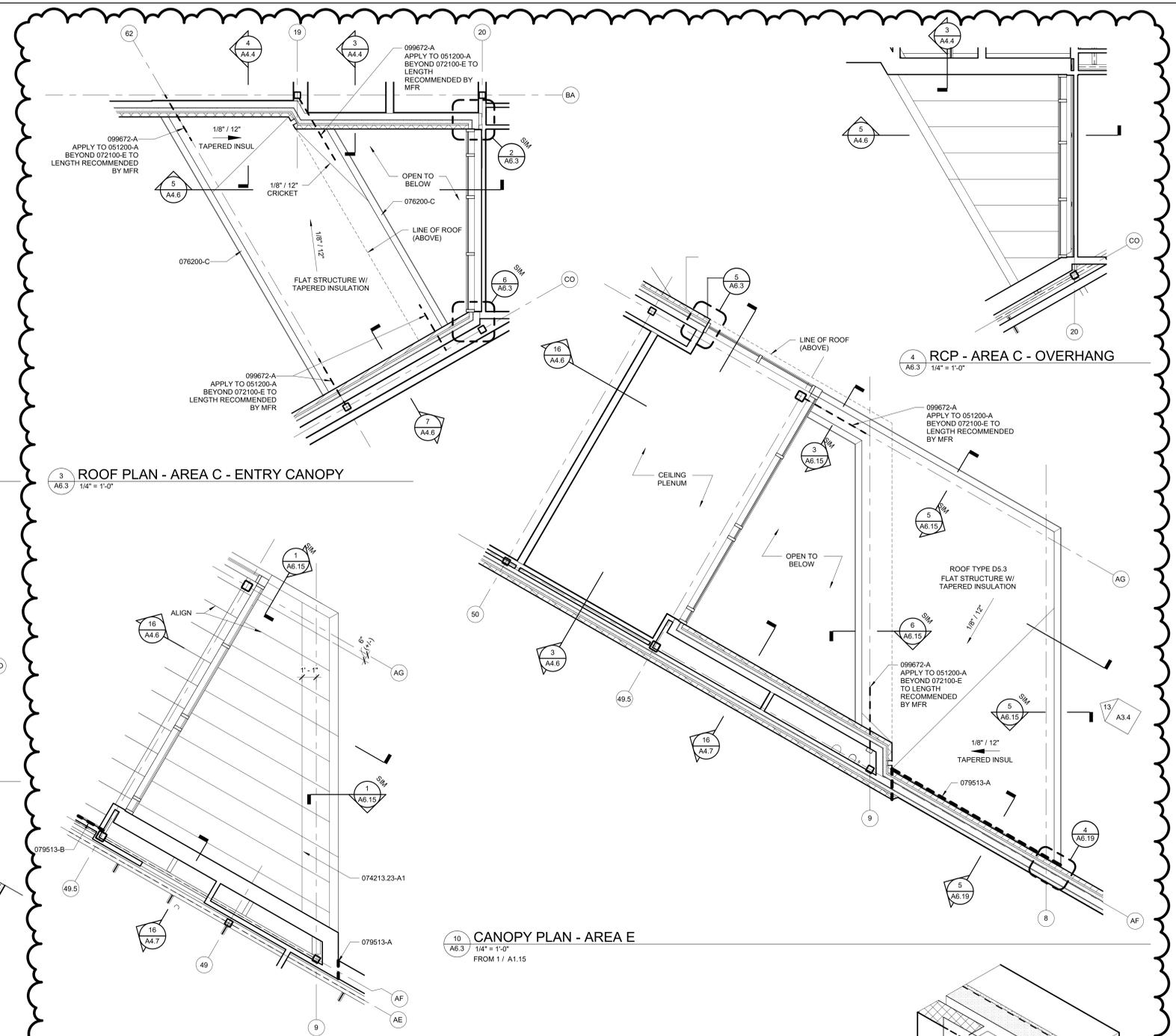
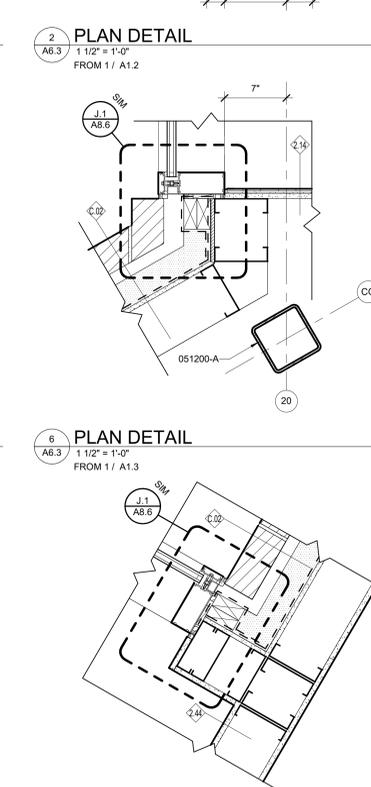
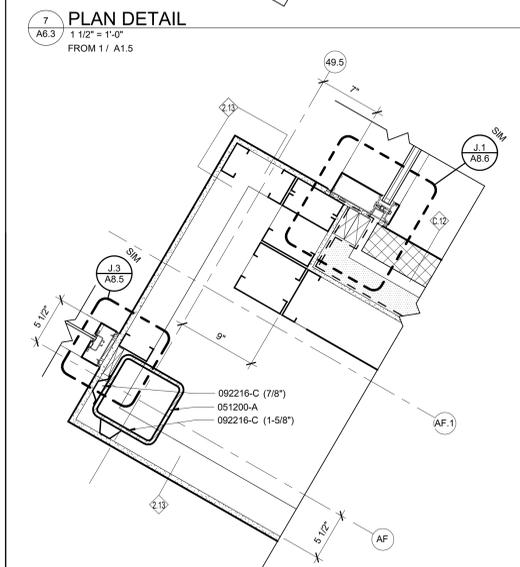
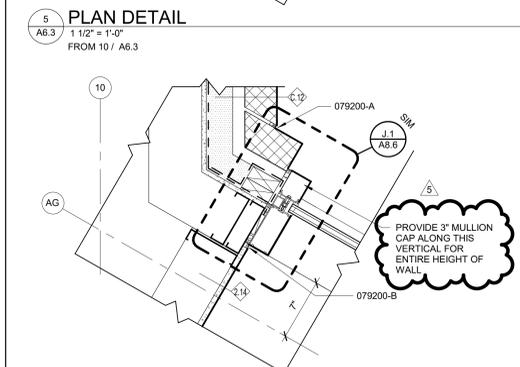
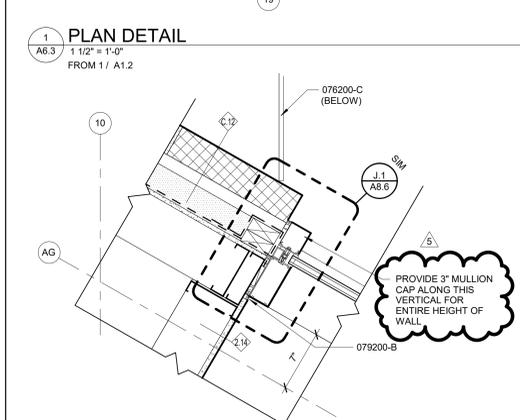
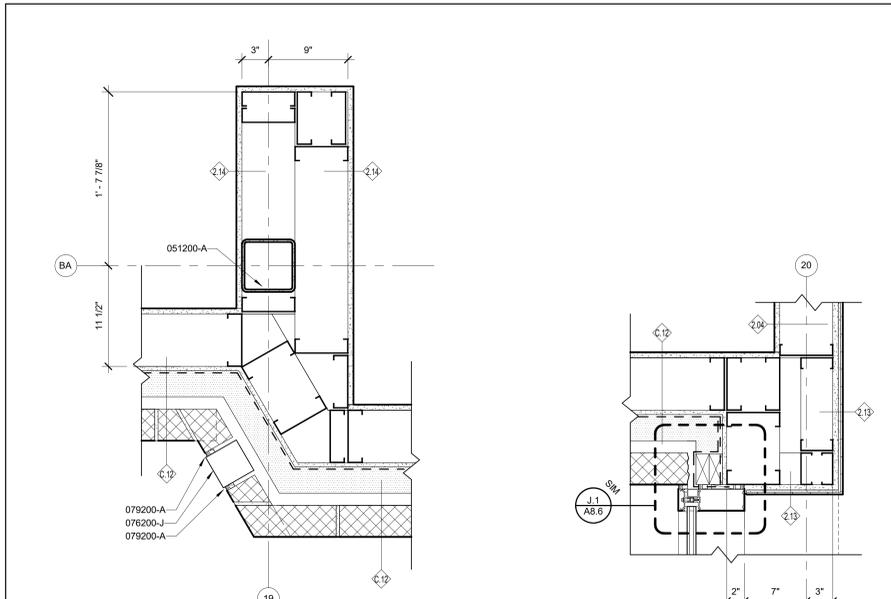
GW INC.
800 WYMAN PARK DRIVE, SUITE 300
BALTIMORE, MARYLAND 21211, 410-352-1909

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I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUMBER: 10910, EXPIRATION DATE: 11/04/2020

Revisions:		
No.	Date	Description
5	04/15/2020	Addendum #5

WAVERLEY ELEMENTARY SCHOOL REPLACEMENT			
MARYLAND PSC NO. 10.058.21 FREDERICK COUNTY PUBLIC SCHOOLS			
Job No.	#18045	EMG	Drawn
Scale	As indicated	JTH	Checked
Date	03/16/2020	PLH	Approved
Drawing Title	STAIR PLANS & SECTIONS		Drawing Number
			A5.2
Sheet			Of



KEY PLAN:

KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET CS.2 FOR COMPLETE LIST

- 042000-C1 DECORATIVE CMU 1, SIZE AS INDICATED
- 051200-A STRUCTURAL STEEL (REFER TO STRUCTURAL FOR MORE INFORMATION)
- 074213.23 METAL COMPOSITE WALL PANEL, SIZE AS INDICATED
- A1 THERMOPLASTIC (TPO) MEMBRANE
- 075400-B FLEXIBLE FLASHING
- 075400-G CANT STRIP
- 076200-C METAL COPING
- 076200-G METAL SCUPPER, WELDED WATER TIGHT
- 076200-J METAL DOWNSPOUT, 4" X 4" MINIMUM
- 076200-L2 DOWNSPOUT BOOT
- 079200-A JOINT SEALANT AND BACKER ROD
- 079200-B JOINT SEALANT
- 079513-A EXTERIOR EXPANSION JOINT COVER SYSTEM
- 079513-B INTERIOR EXPANSION JOINT COVER SYSTEM
- 092216-C HAT SHAPED METAL FURRING CHANNEL, SIZE AS INDICATED
- 099672-A FLUID APPLIED ACRYLIC INSULATION COATING

SCALE OF FEET
1/4" = 1'-0"

SCALE OF INCHES
1 1/2" = 1'-0"

ISSUED FOR BID

Seal:

G|W|O

Seal:

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BALTIMORE, MARYLAND 21211, 410-352-1909

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LICENSE NUMBER: 10910, EXPIRATION DATE: 11/04/2020

Revisions:	No.	Date	Description
	5	04/15/2020	ADDENDUM #5

WAVERLEY ELEMENTARY SCHOOL REPLACEMENT

MARYLAND PSC NO. 10.058.21
FREDERICK COUNTY PUBLIC SCHOOLS

Job No.	#18045	EMG/JTH	Drawn
Scale	As indicated	JTH	Checked
Date	03/16/2020	PLH	Approved
Drawing Title	PLAN DETAILS	Drawing Number	A6.3

Sheet

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FLOOR & LOW ROOF FRAMING PLAN - AREA C

1/8" = 1'-0"

FLOOR FRAMING PLAN NOTES:

- TOP OF FIRST FLOOR SLAB ELEVATION IS 410.00' (0'-00"), U.N.O.
- TOP OF FLOOR SLAB ELEVATION IS 425.33' (+15'-4").
- TOP OF STEEL BEAM ELEVATION IS 424.71' (+14'-8 1/2"), U.N.O.
- ALL ELEVATIONS NOTED THUS ("'-X") REFERENCED TO TOP OF FIRST FLOOR SLAB ELEVATION.
- FLOOR SLAB SHALL BE 1 1/2" THK. 20-GAGE COMPOSITE DECK (VALCRAFT 1.5 VL OR SIMILAR) WITH 3 1/2" OF LIGHTWEIGHT CONCRETE (5" TOTAL THICKNESS) W/ 6X6 W2.1XW2.1 W.W.R. OR EQUIVALENT FIBER REINFORCEMENT. ATTACHMENT REQUIREMENTS INCLUDE: 5/8" DIA. PUDDLE WELDS W/ 3/8" FASTENER PATTERN AT ALL SUPPORTS AND 1/2" O.C. AT ALL MEMBERS PARALLEL TO DECK SPAN. PROVIDE #10 SIDELAP SCREWS @ 12" O.C. BETWEEN SUPPORTS, U.N.O. WHERE SHEAR STUDS OCCUR. THE STUD WELD MAY REPLACE A DECK PUDDLE WELD. FLOOR SLABS SHALL BE POURED TO A UNIFORM THICKNESS AND SHALL NOT BE INCREASED IN THICKNESS TO ACCOUNT FOR DEFLECTION IN THE FRAMING, U.N.O.
- PROVIDE 1/4" THK. EDGE ANGLE OR BENT PLATE AT ALL FLOOR EDGES, TYP. U.N.O.
- ALL ANGLE TO MASONRY OR CONCRETE WALL CONNECTIONS ARE 5/8" Ø EXP. ANCHORS @ 24" O.C. MIN. 4" EMBED, U.N.O.
- COORDINATE WITH MECHANICAL, ELECTRICAL & PLUMBING DRAWING FOR ALL SLAB PENETRATION SIZES & LOCATIONS. PENETRATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE AND ALL PENETRATIONS MAY NOT BE SHOWN. PROVIDE REINFORCING OR ADDITIONAL FRAMING PENETRATIONS AS SHOWN IN THE TYPICAL FLOOR SLAB PENETRATION FRAMING DETAILS.
- FLOOR SLAB AND FRAMING TO BE CONT. THRU MEP CHASES, U.N.O. PROVIDE ADDITIONAL FRAMING AT FLOOR PENETRATIONS PER TYPICAL FLOOR SLAB PENETRATION FRAMING DETAILS AS REQUIRED.
- BRACE MASONRY OR CONCRETE WALLS UNTIL METAL DECK HAS BEEN INSTALLED AND CONCRETE FLOOR HAS BEEN POURED.
- SEE PLANS AND SCHEDULE FOR ALL MASONRY LINTEL DETAILS. COORDINATE LINTEL LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- PROVIDE GAP AT TOP OF NON-LOAD BEARING WALLS TO ALLOW FOR DEFLECTIONS OF STRUCTURE. U.N.O. FILL GAP WITH COMPRESSIBLE MATERIAL OR FIRE-SAFING INSULATION IF WALL IS FIRE-RATED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR TOP OF NON-LOAD BEARING WALL HEIGHTS.
- JOIST SEAT DEPTH FOR K-SERIES JOISTS SHALL BE 2 1/2" U.N.O.
- JOIST BRIDGING SHALL BE DESIGNED AND PROVIDED BY JOIST MANUFACTURER IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE'S (SJI) REQUIREMENTS.
- EXPOSED STRUCTURAL STEEL FRAMING
 - FOR EXPOSED STRUCTURAL STEEL TUBES, PREPARE AND CLEAN ALL SURFACES TO ALLOW FOR SMOOTH APPLICATION OF PAINT FINISHES.
 - ALL SHOP WELDS SHALL BE GROUND SMOOTH.
 - IT IS ACCEPTABLE TO INSERT FILL MATERIALS BETWEEN WELD POINTS IN ORDER TO PROVIDE A CLEAN AND CONTINUOUS CONNECTION.
- SEE ARCHITECTURAL DRAWINGS FOR ALL NECESSARY EMBEDDED ITEMS, RAMPS, STAIRS, LANDINGS, AND FINISH DETAILS.
- DETAILS AS SHOWN INDICATE TYPICAL CONNECTIONS AND CONDITIONS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

MASONRY LINTEL PLAN NOTES:

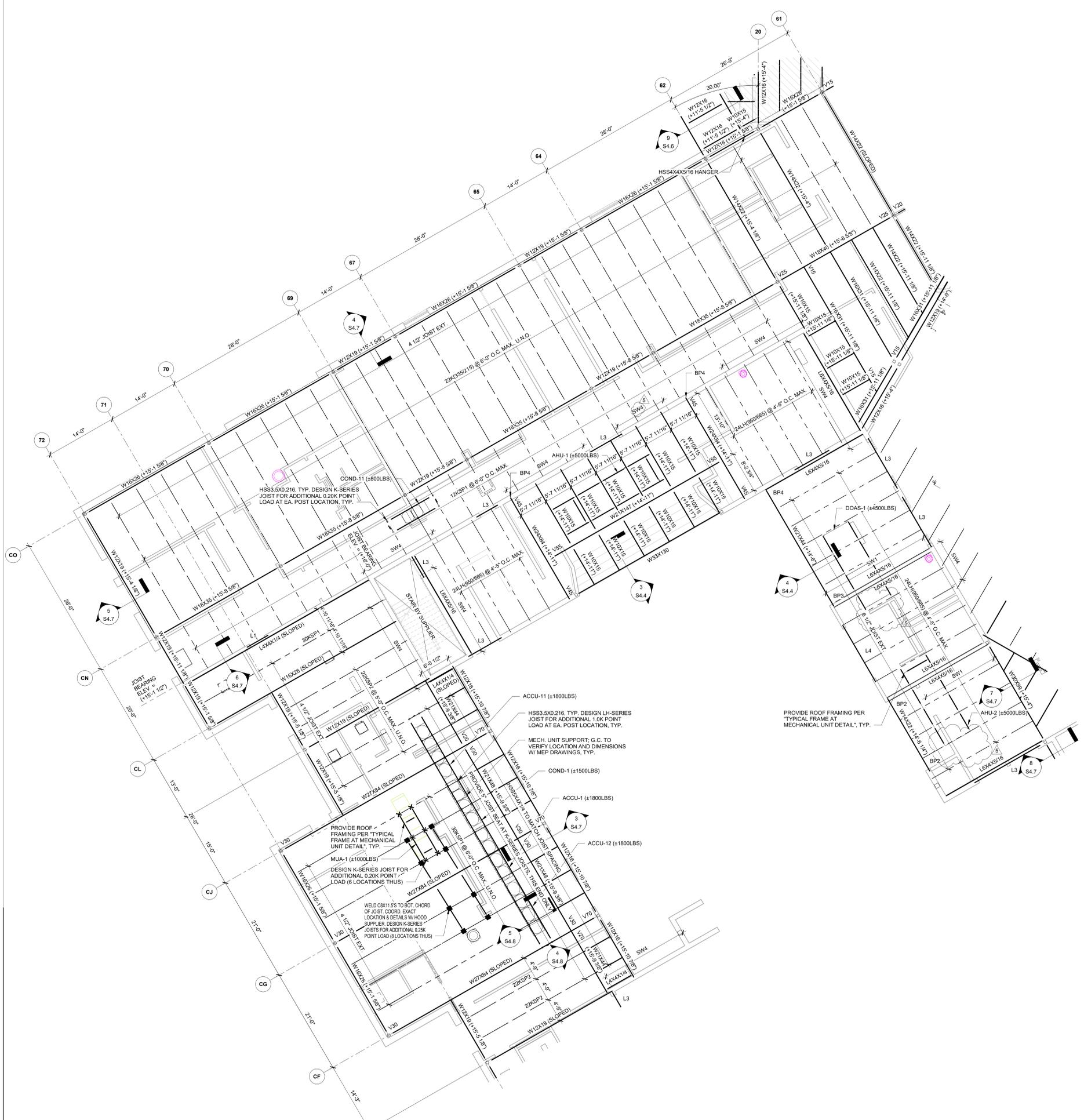
- CONTRACTOR SHALL REFER TO ARCH. AND MECH. DRAWINGS FOR ALL PENETRATIONS THROUGH MASONRY WALLS. PROVIDE LITTELS FOR ALL OPENINGS GREATER THAN 12". NOTIFY ARCHITECT AND ENGINEER IF LINTEL IS NOT SHOWN ON LINTEL PLAN OR SCHEDULE.
- VERIFY ALL WALL THICKNESS W/ ARCH. DRAWINGS PRIOR TO FABRICATION.
- ALL LITTELS TO EXTEND 1" MIN. ON MIN. 1/4" THK. SOLID OR GROUTED SUPPORTING MASONRY, U.N.O.
- ALL LITTELS WITH CLEAR OPENINGS 6'-0" OR GREATER SHALL HAVE (2) 1/2" Ø X 6" LONG HEADED STUDS AT EA. END, WELDED TO BOTTOM OF LINTEL AND EMBEDDED IN SOLID GROUT OR PROVIDE BEARING PLATE. CONTACT ENGINEER FOR EXACT BEARING PLATE SIZE.
- ALL EXTERIOR WALL LITTELS SHALL BE GALVANIZED.
- ALL STEEL LINTEL WALLS SUPPORTING BRICK SHALL BE TEMPORARILY SHORED WHERE A HEIGHT OF MASONRY GREATER THAN HALF THE SPAN OF A LINTEL WILL BE PLACED ABOVE THE LINTEL PRIOR TO MASONRY GAINING DESIGN STRENGTH. SHORING SHALL REMAIN IN PLACE UNTIL MASONRY HAS GAINED DESIGN STRENGTH AND ALL REQUIRED PERMANENT BRACING IS INSTALLED.
- CONTRACTOR SHALL CREATE A LINTEL ERECTION PLAN AND SUBMIT FOR APPROVAL ALONG WITH DETAILED LINTEL SHOP DRAWINGS.

MASONRY REIN. PLAN NOTES:

- ALL EXTERIOR AND LOAD BEARING MASONRY WALLS SHALL BE REINFORCED W/ #5 VERT. BARS @ 32" O.C. U.N.O.
- ALL VERT. BARS ARE TO BE CENTERED IN MASONRY WALL, U.N.O.
- BARS SPECIFIED ARE CONTINUOUS AND DO NOT INCLUDE DISCONTINUOUS VERT. BARS AT STEEL LINTEL BEARING.
- AT ALL MASONRY WALLS (LOAD BEARING AND NON-LOAD BEARING) PROVIDE CONTINUOUS BOND BEAMS & REINFORCING AT THE TOP OF ALL WALLS AND AT EVERY FLOOR LEVEL. REFER TO BOND BEAM REINFORCING SCHEDULE FOR REINFORCING SIZE & QUANTITY. WHERE FLOOR-TO-FLOOR HEIGHTS EXCEED 11'-0", PROVIDE INTERMEDIATE BOND BEAMS AT 10'-0" MAXIMUM SPACING.
- REFER TO MASONRY SHEAR WALL REINFORCING SCHEDULE FOR REINFORCING IN MASONRY SHEAR WALLS. NO CONTROL JOINTS SHALL BE LOCATED IN A SHEAR WALL. PROVIDE A JOINT AT EITHER END OF A SHEAR WALL WHERE REQUIRED TO MEET MAXIMUM SPACING LIMITS INDICATED.
- SEE TYPICAL DETAILS FOR REIN. NOT SPECIFIED IN PLAN.
- HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF TRUSS TYPE ASTM A82 COLD DRAWN NO. 9 GALVANIZED WIRE STEEL LOCATED 16" O.C. CROSS RODS TO BE WELDED TO SIDE RODS AT 16" O.C. TO FORM A TRUSS. LAP SPLICES 6" MINIMUM. PROVIDE HORIZONTAL REINFORCING IN TWO COURSES ABOVE AND BELOW OPENINGS AND AT THE TOP OF WALLS OR PARTITIONS.
- PROVIDE CONTROL JOINTS IN MASONRY WALLS AS INDICATED IN THE CONCRETE MASONRY CONSTRUCTION SECTION OF THE GENERAL NOTES, U.N.O.
- PROVIDE MASONRY TIES BETWEEN WYTHES WHEN MULTI-WYTHE WALL IS NOT A FIREWALL, TYP.

ROOF FRAMING PLAN NOTES:

- TOP OF FIRST FLOOR SLAB ELEVATION IS 410.00' (0'-00"), U.N.O.
- ALL ELEVATIONS NOTED THUS ("'-X") REFERENCED TO TOP OF FIRST FLOOR SLAB ELEVATION.
- PROVIDE 1/4" THK. EDGE ANGLE OR BENT PLATE AT ALL ROOF EDGES, TYP. U.N.O.
- ALL ANGLE TO MASONRY WALL CONNECTIONS ARE 5/8" Ø EXPANSION BOLTS @ 24" O.C. MIN. 4" EMBED, U.N.O.
- COORDINATE WITH MECHANICAL, ELECTRICAL & PLUMBING DRAWING FOR ALL ROOF PENETRATION SIZES & LOCATIONS. PENETRATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE AND ALL PENETRATIONS MAY NOT BE SHOWN. PROVIDE FRAMING FOR ALL PENETRATIONS AS SHOWN IN THE TYPICAL ROOF PENETRATION FRAMING DETAIL.
- SEE ARCHITECTURAL AND HVAC DRAWINGS FOR EXACT LOCATIONS OF ROOF TOP UNITS, ROOF DRAINS, AND ROOF VENTS.
- SEE PLANS AND SCHEDULE FOR ALL MASONRY LINTEL DETAILS. COORDINATE LINTEL LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- PROVIDE GAP AT TOP OF NON-LOAD BEARING WALLS TO ALLOW FOR DEFLECTIONS OF STRUCTURE. U.N.O. FILL GAP WITH COMPRESSIBLE MATERIAL OR FIRE-SAFING INSULATION IF WALL IS FIRE-RATED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR TOP OF NON-LOAD BEARING WALL HEIGHTS.
- JOIST AND BEAM BEARING ELEVATIONS VARY. SLOPE WALLS AND BEAMS ACCORDINGLY, WHERE REQUIRED, FOR BEARING ELEVATIONS.
- JOIST SEAT DEPTH FOR K-SERIES JOISTS SHALL BE 2 1/2" U.N.O.
- JOIST BRIDGING SHALL BE DESIGNED AND PROVIDED BY JOIST MANUFACTURER IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE'S (SJI) REQUIREMENTS.
- EXPOSED STRUCTURAL STEEL FRAMING
 - FOR EXPOSED STRUCTURAL STEEL TUBES, PREPARE AND CLEAN ALL SURFACES TO ALLOW FOR SMOOTH APPLICATION OF PAINT FINISHES.
 - ALL SHOP WELDS SHALL BE GROUND SMOOTH.
 - IT IS ACCEPTABLE TO INSERT FILL MATERIALS BETWEEN WELD POINTS IN ORDER TO PROVIDE A CLEAN AND CONTINUOUS CONNECTION.
- DETAILS AS SHOWN INDICATE TYPICAL CONNECTIONS AND CONDITIONS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.



ROOF FRAMING PLAN - AREA C

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

- TOP OF FIRST FLOOR SLAB ELEVATION IS 410.00' (0'-0"). U.N.O.
- ALL ELEVATIONS NOTED THUS (+X'-X") REFERENCED TO TOP OF FIRST FLOOR SLAB ELEVATION.
- PROVIDE 1/4" THK. EDGE ANGLE OR BENT PLATE AT ALL ROOF EDGES, TYP., U.N.O.
- ALL ANGLE TO MASONRY WALL CONNECTIONS ARE 5/8" Ø EXPANSION BOLTS @ 24" O.C., MIN. 4" ENBED. U.N.O.
- COORDINATE WITH MECHANICAL, ELECTRICAL & PLUMBING DRAWING FOR ALL ROOF PENETRATION SIZES & LOCATIONS. PENETRATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE AND ALL PENETRATIONS MAY NOT BE SHOWN. PROVIDE FRAMING FOR ALL PENETRATIONS AS SHOWN IN THE TYPICAL ROOF PENETRATION FRAMING DETAIL.
- SEE ARCHITECTURAL AND HVAC DRAWINGS FOR EXACT LOCATIONS OF ROOF TOP UNITS, ROOF DRAINS, AND ROOF VENTS.
- SEE PLANS AND SCHEDULE FOR ALL MASONRY LINTEL DETAILS. COORDINATE LINTEL LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- PROVIDE GAP AT TOP OF NON-LOAD BEARING WALLS TO ALLOW FOR DEFLECTIONS OF STRUCTURE, U.N.O. FILL GAP WITH COMPRESSIBLE MATERIAL OR FIRESAFING INSULATION IF WALL IS FIRE-RATED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- SEE ARCHITECTURAL DRAWINGS FOR TOP OF NON-LOAD BEARING WALL HEIGHTS. JOIST AND BEAM BEARING ELEVATIONS VARY. SLOPE WALLS AND BEAMS ACCORDINGLY, WHERE REQUIRED, FOR BEARING ELEVATIONS.
- JOIST SEAT DEPTH FOR K-SERIES JOISTS SHALL BE 2 1/2". U.N.O.
- JOIST BRIDGING SHALL BE DESIGNED AND PROVIDED BY JOIST MANUFACTURER IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE'S (SJI) REQUIREMENTS
- EXPOSED STRUCTURAL STEEL FRAMING
 - FOR EXPOSED STRUCTURAL STEEL TUBES, PREPARE AND CLEAN ALL SURFACES TO ALLOW FOR SMOOTH APPLICATION OF PAINT FINISHES.
 - ALL SHOP WELDS SHALL BE GRIND SMOOTH.
 - IT IS ACCEPTABLE TO INSERT FILL MATERIALS BETWEEN WELD POINTS IN ORDER TO PROVIDE A CLEAN AND CONTINUOUS CONNECTION.
- DETAILS AS SHOWN INDICATE TYPICAL CONNECTIONS AND CONDITIONS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

MASONRY LINTEL PLAN NOTES:

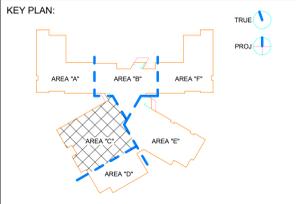
- CONTRACTOR SHALL REFER TO ARCH. AND MECH. DRAWINGS FOR ALL PENETRATIONS THROUGH MASONRY WALLS. PROVIDE LINTELS FOR ALL OPENINGS GREATER THAN 12". NOTIFY ARCHITECT AND ENGINEER IF LINTEL IS NOT SHOWN ON LINTEL PLAN OR SCHEDULE. VERIFY ALL WALL THICKNESS W/ ARCH. DRAWINGS PRIOR TO FABRICATION.
- ALL LINTELS TO EXTEND 8" MIN. ON MIN. 18" THK. SOLID OR GROUTED SUPPORTING MASONRY, U.N.O.
- ALL LINTELS WITH CLEAR OPENINGS 6'-0" OR GREATER SHALL HAVE (2) 1/2" Ø X 6' LONG HEADED STUDS AT EA. END, WELDED TO BOTTOM OF LINTEL AND EMBEDDED IN SOLID GROUT OR PROVIDE BEARING PLATE. CONTACT ENGINEER FOR EXACT BEARING PLATE SIZE. ALL EXTERIOR WALL LINTELS SHALL BE GALVANIZED.
- ALL STEEL LINTELS FOR EXTERIOR WALLS SUPPORTING BRICK SHALL BE TEMPORARILY SHORED WHERE A HEIGHT OF MASONRY GREATER THAN HALF THE SPAN OF A LINTEL WILL BE PLACED ABOVE THE LINTEL PRIOR TO MASONRY GAINING DESIGN STRENGTH. SHORING SHALL REMAIN IN PLACE UNTIL MASONRY HAS GAINED DESIGN STRENGTH AND ALL REQUIRED PERMANENT BRACING IS INSTALLED.
- CONTRACTOR SHALL CREATE A LINTEL ERECTION PLAN AND SUBMIT FOR APPROVAL ALONG WITH DETAILED LINTEL SHOP DRAWINGS.

MASONRY REINF. PLAN NOTES:

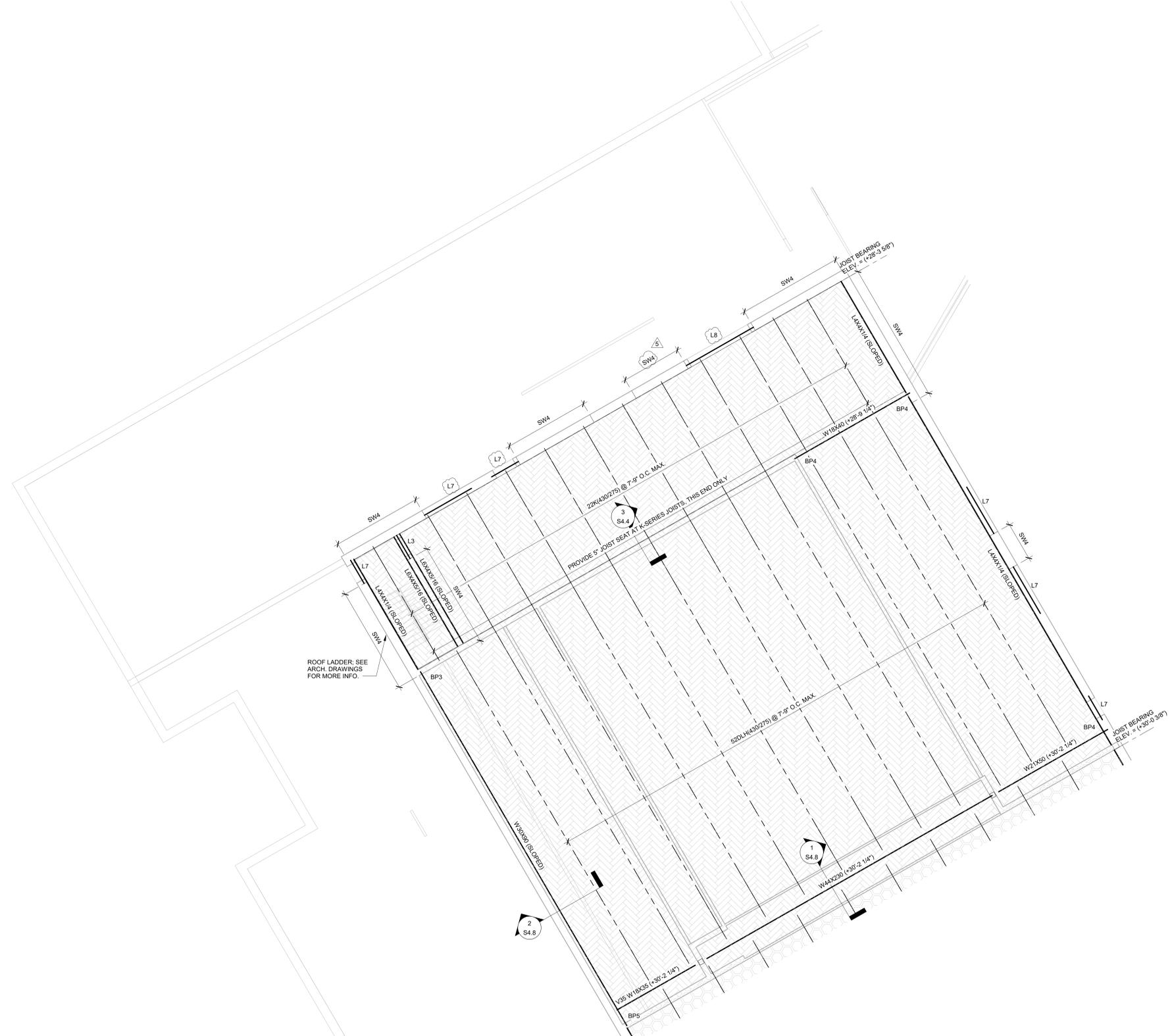
- ALL EXTERIOR AND LOAD BEARING MASONRY WALLS SHALL BE REINFORCED W/ #5 VERT. BARS @ 32" O.C., U.N.O.
- ALL VERT. BARS ARE TO BE CENTERED IN MASONRY WALL, U.N.O.
- BARS SPECIFIED ARE CONTINUOUS AND DO NOT INCLUDE DISCONTINUOUS VERT. BARS AT STEEL LINTEL BEARINGS.
- AT ALL MASONRY WALLS (LOAD BEARING AND NON-LOAD BEARING) PROVIDE CONTINUOUS BOND BEAMS & REINFORCING AT THE TOP OF ALL WALLS AND AT EVERY FLOOR LEVEL. REFER TO BOND BEAM REINFORCING SCHEDULE FOR REINFORCING SIZE & QUANTITY. WHERE FLOOR-TO-FLOOR HEIGHTS EXCEED 11'-0", PROVIDE INTERMEDIATE BOND BEAMS AT 10'-0" MAXIMUM SPACING.
- REFER TO MASONRY SHEAR WALL REINFORCING SCHEDULE FOR REINFORCING IN MASONRY SHEAR WALLS. NO CONTROL JOINTS SHALL BE LOCATED IN A SHEAR WALL. PROVIDE A JOINT AT EITHER END OF A SHEAR WALL WHERE REQUIRED TO MEET MAXIMUM SPACING LIMITS INDICATED.
- SEE TYPICAL DETAILS FOR REINF. NOT SPECIFIED IN PLAN.
- HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF TRUSS TYPE ASTM A82 COLD DRAWN NO. 9 GAUGE GALVANIZED WIRE STEEL, LOCATED 16" O.C. CROSS RODS TO BE WELDED TO SIDE RODS AT 16" O.C. TO FORM A TRUSS. LAP SPLICES 6" MINIMUM. PROVIDE HORIZONTAL REINFORCING IN TWO COURSES ABOVE AND BELOW OPENINGS AND AT THE TOP OF WALLS OR PARTITIONS.
- PROVIDE CONTROL JOINTS IN MASONRY WALLS AS INDICATED IN THE CONCRETE MASONRY CONSTRUCTION SECTION OF THE GENERAL NOTES, U.N.O.
- PROVIDE MASONRY TIES BETWEEN WYTHES WHEN MULTIWYTHE WALL IS NOT A FIREWALL, TYP.

DECK LEGEND

-  1.5822 DECK FASTENED TO SUPPORTS W/ 5/8" DIA. PUDDLE WELDS IN 364 FASTENER PATTERN AT ALL SUPPORTS AND 12" O.C. AT ALL MEMBERS PARALLEL TO DECK SPAN. PROVIDE #10 SIDELAP SCREWS @ 12" O.C. BETWEEN SUPPORTS
-  1.5820 DECK FASTENED TO SUPPORTS W/ 5/8" DIA. PUDDLE WELDS IN 364 FASTENER PATTERN AT ALL SUPPORTS AND 12" O.C. AT ALL MEMBERS PARALLEL TO DECK SPAN. PROVIDE #10 SIDELAP SCREWS @ 12" O.C. BETWEEN SUPPORTS
-  3NPA20/20 CELLULAR DECK FASTENED TO SUPPORTS W/ 5/8" DIA. PUDDLE WELDS IN 344 FASTENER PATTERN AT ALL SUPPORTS AND 12" O.C. AT ALL MEMBERS PARALLEL TO DECK SPAN. PROVIDE #10 SIDELAP SCREWS @ 12" O.C. BETWEEN SUPPORTS
-  3N20 DECK FASTENED TO SUPPORTS W/ 5/8" DIA. PUDDLE WELDS IN 244 FASTENER PATTERN AT ALL SUPPORTS AND 12" O.C. AT ALL MEMBERS PARALLEL TO DECK SPAN. PROVIDE #10 SIDELAP SCREWS @ 12" O.C. BETWEEN SUPPORTS



KEYNOTES LISTED ON THIS SHEET ARE FOR CONVENIENCE ONLY. REFER TO SHEET CS.2 FOR COMPLETE LIST



ROOF LADDER; SEE ARCH. DRAWINGS FOR MORE INFO.

BIM 360//18.0169 Waverly ES/STR_C018.0159.00_Waverley ES_R19.rvt

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CEG
CARNEY ENGINEERING GROUP

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LICENSE NUMBER: 5176, EXPIRATION DATE: 11/21/2021

Revisions:		
No.	Date	Description
5	04/15/2020	Addendum #5

WAVERLEY ELEMENTARY SCHOOL REPLACEMENT

FREDERICK COUNTY PUBLIC SCHOOLS

Job No.	C018.0159.00	Drawn
Scale	As indicated	SAP Checked
Date	03/16/2020	BLP Approved
Drawing Title	ROOF FRAMING PLAN - AREA C	Drawing Number
Sheet	S1.14	Of