ADDENDUM

Public Building Commission of Chicago | Richard J. Daley Center | 50 West Washington Street, Room 200 | Chicago, Illinois 60602 | (312) 744-3090 | pbcchicago.com

ADDENDUM NO.: **03**

PROJECT NAME: **Esmond Elementary School Annex & Renovations**

PROJECT NO.: **05125**

CONTRACT NO.: **C1588**

DATE OF ISSUE: **November 30, 2017**

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum. Issued Addenda represent responses/clarifications to various inquiries. Contractors shall be responsible for including all associated labor/material costs in its bid. Drawings/specifications corresponding to inquiry responses will be issued with the Issue for Construction Documents, upon issuance of building permit.

ITEM NO. 1: **CHANGE TO KEY DATES**
None.

ITEM NO. 2: **REVISIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS**
None.

ITEM NO. 3: **REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS**
None.

ITEM NO. 4: **REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS**

Change 1 **Book 3** – **Volume 1** – **REPLACED** – Section 00 01 00 – Table of Contents.
Change 2 **Book 3** – **Volume 1** – **ADDED** – Section 07 27 00.2 – Fluid Applied Air and Vapor Barriers
Change 3 **Book 3** – **Volume 1** – **REMOVED** – Section 07 81 23 – Intumescent Mastic Fireproofing
Change 4 **Book 3** – **Volume 1** – **REMOVED** – Section 09 01 63 – Terrazo Flooring
Change 5 **Book 3** – **Volume 1** – **ADDED** – Section 10 21 13 – Toilet Compartments
Change 6 **Book 3** – **Volume 1** – **ADDED** – Section 32 18 16 – Playground Protective Surfacing
Change 7 **Book 3** – **Volume 1** – **ADDED** – Section 32 31 19 – Decorative Metal Fencing & Gates
Change 8 **Book 3** – **Volume 1** – **ADDED** – Masonry Assessment Report

ITEM NO. 5: **REVISIONS TO DRAWINGS**

Change 1 **REVISED** Drawing No. G1.1, Index of Drawings Code and Zoning Analysis: Revised the fire rating requirements for columns supporting roofs only and beams supporting roofs only.
Change 2 **REVISED** Drawing No. G2.1, Code Information and Safety Reference Plan: Revised the Fire Resistive Rating for the Roof Construction including supporting beams and joists.
Change 3 **REVISED** Drawing No. G3.1, Phasing Plans: Remove reference to scope of work in the Art Room.
Change 4 **REVISED** Drawing No. A1.1 First Floor Plan: Added a wall type tag at the west wall of Entry Vestibule 100 clouds have been added to the drawing to clarify fencing scope of work and to identify tree removals.
Change 5 **REVISED** Drawing No. A1.3, Enlarged Plans: Revised the door jamb target at drawing number 1.
Change 6 **REVISED** Drawing No. A1.3.1, Enlarged Plans: Revised the wall type tag at the chase wall on drawing number 3.
Change 7 **REVISED** Drawing No. A1.5.0, Existing Roof Demolition Plan: Added Roof Area 2 to the description of the existing roof system.
Change 8 **REVISED** Drawing No. A2.1, First Floor Reflected Ceiling Plan: Added a ceiling type tag to Vestibule 100.

Change 9 **REVISED** Drawing A2.3, Enlarged Reflected Ceiling Plan: Added ceiling type tags to pass through ceiling of the link on drawings 1 and 3. Added a ceiling type tag to Entry Vestibule 100.

Change 10 **REVISED** Drawing A3.2, Existing Building Elevations: Revised Key Notes for clarity.

Change 11 **REVISED** Drawing A5.4, Wall Sections: Revised detail tags at Wall Section 11, added 2nd layer of gyp. Board to Wall Section 12, added section details 15 & 16.

Change 12 **REVISED** Drawing A5.5, Wall Sections: Added notes to identify materials at detail 3.

Change 13 **REVISED** Drawing A5.6, Wall Section Details: Added 2nd layer of gyp. board to detail 12.

Change 14 **REVISED** Drawing A5.7, Wall Section Details: Added notes to identify materials at detail 3.

Change 15 **REVISED** Drawing A8.4, Interior Elevations: Revised Furniture and Equipment Legend, **ADDED** drawings for Teachers Station.

Change 16 **REVISED** Drawing A10.1, Door Schedule: Revised hardware set for Door 101B, revised notes and dimensions at the door types for clarity.

Change 17 **REVISED** Drawing A10.2, Window Schedule: Revised detail tags and detail numbers.

Change 18 **REVISE** Drawing A14.1, First Floor Finish Plan: Added floor finish information for the utility and storage areas.

Change 19 **REVISED** Drawing A14.2, Second Floor Finish Plan: Added floor finish information for the Elevator machine room, revised information for the quarry tile base on the Finish Schedule.

Change 20 **REVISED** Drawing M1.2, Second Floor Ventilation Plan Annex: Added Key Notes for wrapping ductwork.

Change 21 **REVISED** Drawing M7.1, Mechanical Schedules: Revised Sound Attenuation Schedule.

Change 22 **REVISED** Drawing P4.5, Plumbing Schedules and Details: Revised the Plumbing Fixture Schedule.

ITEM NO. 6: REQUESTS FOR INFORMATION

RFI-1.

Question: **Drawing reference FS1.0**
The units shown on the floor plan are not matching the units in the specs. For example on item 36 Hot Food Serving Counter, the spec calls out a 5 well unit and the floor plan shows a 4 well. Please confirm if a 4 well or 5 well is required for the hot food serving counter.

Response: **For item 36, the Hot Food Service Counter is a 4 well unit as indicated on Drawing FS1.0 of the Contract Documents.**

RFI-2.

Question: **If you could take a few moments to answer some questions on the Esmond Elementary School Annex (C1588), that would be very helpful. I will be referring to section 11400 Food Service specifications and plans.**

1. Items 8 – please confirm the item as it is a open number on the schedule and an eye wash on the specification?
2. Item 19- please confirm the quantity of this item as the specification say three and there are 4 on the plan.
3. Items 46 please confirm who is providing this item as the specification and the schedule are conflicting?
4. Item 48- please confirm this item as it is an open number on the schedule and a tray and silver carts in the specs?

Response: **Answer for Item #8 = The eye wash is not required.**
Answer for item #19 = The quantity of three referenced in the specification and the quantity of three shown on the plan are correct.
Answer for Item #46 = The crowd control rail is provided by others.
Answer for Item #48 = Provide the two tray carts as listed in the specifications.

RFI-3.

Question: **The drawings on the door schedule page A0.1 show a type 1 frame and type 3 frame to have transoms above them. The transoms have a 5 inch perimeter of aluminum around the glass, are they calling for them to be a vent of some sort?**

Response: **At Door type 1 and 3 on Sheet A10.1, the transom with the 4" aluminum frame is fixed.**

RFI-4.

Question: **A description of project window requirements will be needed. Will emergency egress hardware be required?**

Response: **Emergency egress hardware will not be required for the windows in this project.**

RFI-5.

Question: **Is the intent of the windows to be glazed into the storefront perimeter or is the entire perimeter to part of the window system?**

Response: **Glazing of the windows is part of the storefront system.**

RFI-6.

Question: **Please identify if we should glaze laminated or insulated at locations.**

Response: **There is no laminated glass specified on this project. All glass shown is insulated glass.**

RFI-7.

Question: **There is no spec provided for the curtain wall that is required at the 34 foot tall elevation.**

Response: **There is no curtain wall in the Project. Specification 08 41 13 Aluminum-Framed Entrances and Storefronts is to be used at the entrance identified and is included in the Contract Documents.**

RFI-8.

Question: **Is it be assumed that the glazing should be non-thermal storefront with a 1" clear tempered glass Solarban 60 from Oldcastle?**

Response: **Glazing to conform with specification 08 51 13 Aluminum Windows.**

RFI-9.

Question: **There is no specification for Science Casework, however there is a new science classroom in the Annex. Please indicate if the science casework is by CPS. If not, please provide a science casework specification.**

Response: **Specification 06 40 23 is provided in Contract Documents. The Science teacher Desk/Sink is the only item which is to be provided by the Contractor. The revisions have been made to drawing A8.4 and is included in this addendum.**

RFI-10.

Question: **There is no specification for fencing, however, sheet L1.0 calls for new ornamental fencing & a new vehicle gate. Please provide a fencing specification for these items.**

Response: **Specification 32 31 19 Decorative Metal Fences and Gates is included in this addendum.**

RFI-11.

Question: **Vestibule 100 has no doors with auto operators or door holders, how should we proceed with power actuator? Currently, Door 100B in only door with any electric hardware.**

Response: **Door 101B, in vestibule 100, shall have hardware Set No. 51 per contract documents. Drawing A10.1 has been revised and is included in this addendum.**

RFI-12.

Question: **There is no specification for Playground Surfacing. Please provide a specification for the required surfacing & associated critical fall height.**

Response: **Specification 32 18 16 Playground Protective Surfacing is included in this addendum.**

RFI-13.

Question: **The bid documents do not include any existing conditions pertaining to the roof. Can you please provide some information as to the existing condition and make up of the roof.**

Response: **The description of the existing roof system is shown on Sheet A1.5.0. Note on Sheet A1.5.0 has been revised to include Roof area #2 in this addendum.**

RFI-14.

Question: **Please reference A2.1 and Detail 1 on A2.3. Above the (4) hour vestibule, one drawing calls it out as gypsum board ceiling but the other calls it out as scrubbable ACT ceiling. Please clarify what type of ceiling is to be provided.**

Response: The ceiling in this area shall be gypsum board. Drawings A2.1 and A2.3 have been revised and are included in this addendum.

RFI-15.

Question: Please confirm there is no ceiling to be provided in vestibule 100.

Response: The ceiling in this area shall be gypsum board. Drawings A2.1 and A2.3 have been revised and are included in this addendum.

RFI-16.

Question: Please clarify what type of wall types are to be provided in vestibule 100, specifically the west/east sides.

Response: Drawing A1.1 has been revised to include partition tags/ wall types and is included in this addendum.

RFI-17.

Question: Please reference A1.5.0. On A1.5.0 there is Roof Area #1 and #2. As for the existing roof system, Roof Area #1 is described at the bottom as a, "single ply membrane (trocal) on tapered insulation on concrete deck". Please confirm the description is applicable to Roof Area #2. If not, please provide a description of Roof Area #2.

Response: Demolition Key Notes on Drawing A1.5.0 has been revised and is included in this addendum.

RFI-18.

Question: Please reference A1.5.0. On the roof construction notes for Roof Area #1 and #2, there are quantities associated with the key notes. Both roof areas show the exact same quantities for every key note. Can you please clarify if the quantity shown is the total quantity on the job that needs to get priced or if each roof will require that quantity on its own? For example, the remove and re-set copping stone has a quantity of 400 LF for each roof area.

Response: Roof Construction Notes on Drawing A1.5.0 has been revised and is included in this addendum.

RFI-19.

Question: Please reference details 3/A5.5 & 3/A5.7. Please clarify what the rectangular hatched area is that is shown at the existing roof level and is separating the masonry parapet from the masonry/furred out wall below. Neither detail calls out this hatched area.

Response: The hatched area represents a continuous 8 x 12 reinforced concrete beam. See structural detail 16 at Sheet S3.2. Sheet A5.5 and A5.7 have been revised and are included in this addendum.

RFI-20.

Question: Roof Construction Note on A1.5.0 & A1.5.1 calls to, "Grind & tuckpoint 100% of masonry to remain at roof side of parapets." However, details 1&2/A1.5.2 call out at the roof side of the parapets for the outer wythe to be removed & replaced with new face brick. Please confirm no brick replacement is required and that the roof side of the parapets are to be ground & tuckpointed.

Response: The scope of work shown in details 1&2 at Sheet A1.5.2 is specific to the areas that are tagged with those detail tags. The balance of the masonry work at the parapets is described in the roof construction notes.

RFI-21.

Question: Are all of the interior CMU partitions to be 4-hour rated walls? The "R" modifier in the wall types called out on the plans denote that the walls are to be fire-rated, however per the partition schedule the "R" could denote a 2-hour or 4-hour rating. Architectural Reference Note 8 calls for a 4-hour rated walls at the 4-hour Vestibule, but it is not clear whether the 4-hour rating is required at the remaining partitions. Please advise.

Response: The 4-hour rating is only required at the link between the new and existing building. All other CMU partitions shall have a 2-hour rating. Refer to sheet G2.1 for fire wall separations.

RFI-22.

Question: Please reference Keynote 1A on A3.2. This keynote calls out, "Main Building: Removing wood siding above windows. Search DD Estimate." Please clarify what is meant by "Search DD Estimate".

Response: Sheet A3.2 has been revised and is included in this addendum.

RFI-23.

Question: **Please reference 1st & 2nd Floor Demolition Plans on A0.1. Demolition Plan Reference Notes 06 & 07 call for glazed brick finish to be removed, and Demolition Plan Reference Note 09 calls for the existing glazed brick wall to be removed. The extent of demolition required at these notes is unclear. Is the entire wall to be demolished or is there a thin brick veneer that is just to be removed? Please provide details and/or existing wall sections clarifying the extent of demolition and the composition of the existing walls to be modified.**

a. The interior elevations corresponding this area of demolition (reference 5-7/A8.1 and 3-5/A8.3) show gypsum board and solid surfacing. However, no partition tags are called out at these walls on the floor plans. Please provide partition tags or wall section details to clarify the proposed work at these walls.

Response: **The demolition notes referenced in these areas are for the glazed brick veneer finish only. Refer to architectural drawings for partition tags.**

RFI-24.

Question: **Please reference Keynotes 2, 3, & 4 on A3.2. These keynotes call for brick, terra cotta & stone repairs and state, "Per OM quantities." Quantities of repair are provided at some of the locations where these keynotes are called out, however at many of the locations where the notes are called out there are no quantities provided. For bidding purposes, please clarify the quantity of repair required these keynotes.**

a. Keynotes 3 & 4 call for two different types of repair – patching of spalled stone/terra cotta & crack repair of stone/terra cotta. The cost of spall repair versus crack repair differs. Please clarify which type of repair is required at these keynotes.

Response: **The key notes referenced on the drawing applies in that specific area. Key Note 2 requires demolition and rebuilding and provides a quantity. Key Note 3 and 4 are for a repair.**

RFI-25.

Question: **Please reference Keynotes 17, 18, & 22 on A3.2. These keynotes call for brick, stone, and concrete repair. Quantities of repair are provided at some of the locations where these keynotes are called out, however at many of the locations where the notes are called out there are no quantities provided. For bidding purposes, please clarify the quantity of repair required these keynotes.**

Response: **The key note referenced on the drawing is the key note that applies in that specific area. Key Note 17 requires demolition and rebuilding and provides a quantity. Key Note 18 is for stone repair and Key Note 22 is for concrete repair.**

RFI-26.

Question: **Please reference Keynote 15 on A3.2. This keynote calls to replace lintels with more than 25% section loss. It is impossible to determine the quantity of lintels that are to be replaced until the lintels are exposed. For bidding purposes, please provide an allowance quantity of lintels to be replaced.**

Response: **Contractor to assume 20% of lintel replacement for bidding purposes.**

RFI-27.

Question: **Detail 4/A5.5 is called out at the parapet on wall section 11/A5.4. However detail 4/A5.5 depicts a canopy metal screen, not a parapet. Please provide parapet detail.**

Response: **Sheet A5.4 and Sheet A5.5 have been revised and included in this addendum.**

RFI-28.

Question: **Please refer to specification section 090163 Terrazzo Restoration. This spec section mentions terrazzo cleaning, however no references to new or existing terrazzo are made on the plans.**

a. Please provide locations or an allowance for cleaning of existing terrazzo if required.
b. If cleaning of existing terrazzo is required, please provide pictures of the existing terrazzo to be cleaned for reference.
c. Please provide locations if any new terrazzo is required.

Response: **Specification has been removed in this addendum.**

RFI-29.

Question: **Please reference 6/G3.1 Area F+G. At the existing main building, it calls to renovate the existing Art Room. No work associated with renovation of an existing Art Room is shown on the plans. Please advise if any work is required at the existing Art Room.**

Response: **Drawing G3.1 has been revised and is included in this addendum.**

RFI-30.

Question: **Please refer to A14.1 & A14.2 Finish Plans. What flooring finish is required at the following rooms?**

a. **Elevator Vestibule 103**
b. **Building Engineer Storage 104**
c. **Mechanical 106**
d. **Electrical 111**
e. **Table Storage 113**
f. **Dry Storage 119**
g. **Elevator Machine Room 213**

Response: **The Elevator Machine Room will receive the Epoxy Floor Finish shown on the finish schedule as Epoxy-1. All other areas listed A through F were addressed in Addendum 1. Sheets A14.1 and A14.2 have been revised and are included in this addendum.**

RFI-31.

Question: **Please reference Keynote 31 on A3.2. This keynote calls for brick removal & replacement at the chimney and states, "Per OM quantities." Quantities of repair are not provided at the locations where this keynote is called out. For bidding purposes, please clarify the quantity of repair required these keynotes.**

Response: **Locally demolish approximately 50 square feet and rebuild displaced spalled and through-brick cracked masonry two wyths at chimney stack. Rebuild with new brick to match existing. Locally grind and tuck point approximately 1000 square feet at chimney stack.**

RFI-32.

Question: **Please reference Keynotes 21 & 35 on A3.2. These keynotes are not called out anywhere on the elevations. Please clarify if there is any work associated with these keynotes in this contract.**

Response: **Notes have been modified and Sheet A3.2 is included in this addendum.**

RFI-33.

Question: **Specification for bathroom partitions is not shown in specifications. Please include specifications for Bathroom partitions.**

Response: **Specification 10 21 13 Toilet Compartments is included in this addendum.**

RFI-34.

Question: **The question regarding Playground Surfacing still has not been answered. Since then, Addendum 1, Sheet AS1.1, Detail 3 has been provided and the playground surface dimensions do not add up.**

Response: **Playground dimensions were revised and included in Addendum 1. Specification 32 18 16 Playground Protective Surfacing is included in this addendum.**

RFI-35.

Question: **The playground dimensions shown on drawing AS1.1 do not match what is shown on the civil and landscape drawings. Which one is correct?**

Response: **Playground dimensions were revised and included in Addendum 1.**

RFI-36.

Question: **This question regarding the ceramic tile was brought to my attention this morning.**

"44 Deep purple in 2x2 built up base is not available, as it has been discontinued.
Ashen Gray Quarry Tile with Abrasive 4x8 cove is not manufactured.
Please advise"

Response: D-200 Gray Speckle 2x2 built up base PTB-1 is to be used in place of the 44 Deep Purple 2x2base. The size of the Ashen Gray Quarry Tile cove base should be 5 x 6.

RFI-37.

Question: Please reference East Exterior Elevation 1/A3.1. Belden Brick Admiral Red Velour Color is called out at the exterior brick. However per the Finish Plans (A14.1-A14.2), Belden Style 470-479 Dark Smooth brick is called for. Brick suppliers are quoting just the Belden 470-479 for both the interior and the exterior brick, and not the Red Velour at the exterior. Please clarify what brick is required for the exterior and interior brick.

Response: Belden Style 470-479 Dark Smooth is the correct color for both the interior and exterior brick.

RFI-38.

Question: Sheet G1.1 "Index of Drawings and Code Information" states that the roof construction and the beams supporting the roof should receive 1 hr fire protection. On sheet G2.1 it referenced again the roof construction shall receive spray fireproofing. Please confirm that the roof construction should be spray fireproofed.
Note: In the past the roof construction for Building Types 1C the roofs are not spray fireproofed. Please advise.

Response: The roof construction is not required to receive spray fireproofing except at the 4-hour vestibule link between the two buildings.

RFI-39.

Question: There is a specification section 07 81 23 "Intumescent Mastic Fireproofing". Please advise if there is intumescent on the job and identify where it should be applied.

Response: Specification 07 81 23 Intumescent Mastic Fireproofing has been removed.

RFI-40.

Question: The drawings do not indicate if we are to provide a perimeter rigid insulation on the continuous concrete footings. Are we to provide the rigid insulation?

Response: Rigid insulation is not required at the continuous concrete footing.

RFI-41.

Question: Please reference Electrical Room 101, Detail 12 – A5.4, Detail 12 – A5.6, and SD6AF4 partition type. Per the partition detail on A6.1, that wall type is a braced stud wall with (4) layers of drywall. On details 12 of both A5.4 and A5.6, there is no horizontal bracing and only (3) layers of drywall. Please clarify what kind of partition is to be provided.

Response: 12/A5.4 and 12/A5.6 are revised and included in this addendum.

RFI-42.

Question: Please reference A1.1. Can you please clarify the differences between S3F4 and S3F(4) partitions? Those wall types can be seen near Dry Storage Room 119 and north of Entry 101.

Response: S3F4 and S3F(4) are the same wall types.

RFI-43.

Question: Please reference A1.2 and Detail 3 on A1.3.1 for Library 211. In A1.2, wall type CHA4(2) is called out while on Detail 3 on A1.3.1, wall type CHA4(1) is called out. Please clarify what type of wall is to be provided in the Library.

Response: CHA4(2) is the correct wall type for the chase in the library. Sheet A1.3.1 has been revised and is included in this addendum.

RFI-44.

Question: Please confirm drywall ceilings are to be provided in the following rooms:
a. Mechanical 108?
b. Electrical 111?
c. Elevator Machine Room 213?

Response: Drywall ceilings are to be provided in the rooms identified per contract documents. See sheet A2.1 and A2.2, ceiling type 3 for information.

RFI-45.

Question: **Please provide blocking details for the roller shades shown in Keynote #6 on A2.1.**

Response: **Detail 3/A10.2 has been modified and is included in this addendum.**

RFI-46.

Question: **Please confirm drywall ceilings are to be provided in the following rooms:**
a. Mechanical 108?
b. Electrical 111?
c. Elevator Machine Room 213?

Response: **Drywall ceilings are to be provided in the rooms identified per contract documents. See sheet A2.1 and A2.2, ceiling type 3 for information.**

RFI-47.

Question: **Please reference Detail 2 - A5.4 and Detail 10 and 13 on A5.6 (reissued in addendum 1). The description on A5.4 calls for a 4 HR rated typical exterior wall with a layer of gyp board on metal furring mounted on CMU with a type x exterior glass-mat gyp sheathing with sheet applied air barrier. The details on Detail 10 of A5.6 don't match the 4 hour rated wall partition details and show light gauge metal framing. The details on detail 13 of A5.6 also don't exactly match the 4 HR rated typical exterior wall details on A5.4. Can you please confirm the following:**
a. Please confirm a layer of Type X exterior glass-mat gyp sheathing is to be installed between the CMU wall and the brick veneer? According to the Division 4 and 9 contractors, this is not typical.
b. Please confirm Tyvek is to be utilized on the exterior walls, including the 1 HR rate typical exterior walls.
c. Please clarify if cold formed metal stud framing or if metal furring channels are to be utilized on the interior side.
d. Please clarify if (1) or (2) layers of drywall are to be used on the interior side.

Response: **A. Detail 11/A5.4 and Detail 10/A5.6 and 13/A5.6 are revised and included in this addendum.**
B. Tyvek is not to be utilized.
C. Metal furring channels are to be used on the interior per construction documentation.
D. 2 Layers of drywall are to be used per standards.

List of Attachments and Drawings:

This Addendum includes the following attached Specifications and/or Documents:

1. Section 00 01 00 – Table of Contents
2. Section 07 27-00.2 – Fluid Applied Air and Vapor Barriers
3. Section 10 21 13 – Toilet Compartments
4. Section 32 18 16 – Playground Protective Surfacing
5. Section 32 31 19 – Decorative Metal Fencing and Gates
6. Masonry Assessment Report

This Addendum includes the following attached Drawings:

1. G1.1 – Index of Drawings, Code and Zoning Analysis, dated 11/30/2017.
2. G2.1 – Code Information and Safety Reference Plan, dated 11/30/17.
3. G3.1 – Phasing Plans, dated 11/30/2017.
4. A1.1 – First Floor Plan, dated 11/30/2017.
5. A1.3 – Enlarged Plans, dated 11/30/2017.
6. A1.3.1 – Enlarged Plans, dated 11/30/2017.
7. A1.5.0 – Existing Roof Demolition Plan, dated 11/30/2017.
8. A2.1 – First Floor Reflected Ceiling Plan, dated 11/30/2017.
9. A2.3 – Enlarged Reflected Ceiling Plan, dated 11/30/2017.
10. A3.2 – Existing Building Elevations, dated 11/30/2017
11. A5.4 – Wall Sections, dated 11/30/2017
12. A5.5 – Wall Sections, dated 11/30/2017.
13. A5.6 – Wall Section Details, dated 11/30/2017

14. A5.7 - Wall Section Details, dated 11/30/2017
15. A8.4 - Interior Elevations A1.6, dated 11/30/2017
16. A10.1 - Door Schedule, dated 11/30/2017
17. A10.2 - Window Schedule, dated 11/30/2017
18. A14.1- First Floor Finish Plan, dated 11/30/2017
19. A14.2 - Second Floor Finish Plan, dated 11/30/2017
20. M1.2 - Second Floor Ventilation Plan Annex, dated 11/30/17
21. M7.1 - Mechanical Schedules, dated 11/30/17
22. P4.5 - Plumbing Fixture Schedules and Details 11/30/17

END OF ADDENDUM NO. 03

SECTION 00 01 10

TABLE OF CONTENTS

(VOLUME 1 OF 3)

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

The following listed documents comprise the Project Manual for the project listed above. Where numerical sequence of sections is interrupted, such interruptions are intentional.

The complete Project Manual for this project consists of Book 1, Book 2 and Book 3, which must not be separated for any reason. The Architect and Owner disclaim any responsibility for any assumptions made by a Contractor or Subcontractor who does not receive a complete Project Manual, including all sections listed in the Table of Contents.

INTRODUCTORY INFORMATION

Section Number	*Section Title*	*CPS Control Rev.*
00 00 00	Project Manual Cover Page	PBC 1_01/01/14
00 01 10	Table of Contents	PBC 1_01/01/17 3
00 01 11	Info Available to Bidders (Reports)	PBC 1_04/01/15

PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

Book 1 (provided by the Public Building Commission)

SPECIFICATIONS GROUP

GENERAL REQUIREMENTS SUBGROUP

DIVISION 01 – GENERAL REQUIREMENTS

Section Number	*Section Title*	*CPS Control Rev.*
01 14 10	Pre-Construction Project Mock Up	PBC 1_07/31/10
01 14 11	Construction Operations and Site Utilization Plan	PBC 1_08/15/14
01 35 60.1	LEED Requirements	PBC 5_09/22/14
01 35 60a	Attachment A- Materials Credit Documentation Sheet	PBC 4_08/17/14
01 35 60b	Attachment B- Low Emitting Mtls. Credits Documentation Sht.	PBC 1_05/15/13
01 35 60c	Attachment C- LEED Checklist for schools v.2009	PBC 1_01/01/09
01 35 60d	Attachment D- LEED BD+C Calculator v.2009	PBC 4_08/01/12
01 35 60e	Attachment E- Sustainable Projects Metrics Capture	PBC 1_09/22/14
01 35 61	LEED Consultant	1_02/28/06
01 35 62	Erosion Sedimentation Control	
01 35 64	Coordination, Commissioning Authority, and General Requirements	2_05/01/12
01 35 65	Commissioning (Cx) Requirements	1_02/28/06
01 35 66	Commissioning (Cx) Submittal Procedures	1_08/17/08
01 35 67	Commissioning (Cx) Project Record Documents	1_08/17/08
01 35 68	Commissioning (Cx) Operation and Maintenance Data	1_02/28/06
01 35 69	Commissioning (Cx) Process	1_08/17/08

01 35 70	Commissioning (Cx) Pre-Functional Checklists	1_08/17/08
01 35 71	Commissioning (Cx) Functional Performance Testing	1_08/17/08
01 35 72	Commissioning (Cx) Demonstration & Training	1_08/17/08
01 50 10	Commission Representative Field Office	PBC 4_04/03/17
01 52 40	Construction Waste Management	PBC 1_09/22/14
01 56 11	General Dust, Fume, and Odor Control	1_01/21/10
01 57 15	Integrated Pest Control	PBC 1_09/11/11
01 70 71	Final Cleaning	PBC 1_09/28/11
01 73 10	Cutting and Patching	PBC 1_10/20/10
01 79 00	Demonstration and Training	CPS 3_07/20/09

FACILITY CONSTRUCTION SUBGROUP

DIVISION 02 – EXISTING CONDITIONS

Section Number	*Section Title*	*CPS Control Rev.*
02 13 15	Small Scale Disturbance of Asbestos Materials	PBC 1_05/19/15
02 24 01	Environmental Scope Sheets	PBC 1_04/01/15
02 26 00	Hazardous Materials Assessment	PBC 1_09/18/12
02 41 16	Building Demolition	PBC 1_07/31/15
02 41 19	Selective Demolition (W/Environmental)	PBC 1_07/31/15
02 82 13	Asbestos Abatement- Prior to demolition	PBC 1_07/31/15
02 82 14	Asbestos Abatement- Interiors	PBC 1_07/31/15
02 82 15	Asbestos Abatement- Exteriors	PBC 1_07/31/15
02 83 19.13	Lead-Based Paint Abatement	PBC 1_07/31/15
02 83 20	Minor Disturbance of Painted Surfaces	PBC 1_05/19/15
02 86 13	Hazardous and Universal Waste Management	PBC 1_07/31/15
02 87 13	Animal Excrement and Carcass Abatement	PBC 1_07/31/15

DIVISION 03 – CONCRETE

Section Number	*Section Title*	*CPS Control Rev.*
03 01 30	Maintenance of Cast In Place Concrete	01_02/28/06
03 30 00	Cast-In-Place Concrete	02_04/10/08
03 54 16	Hydraulic Cement Underlayment	02_08/20/07

DIVISION 04 – MASONRY

Section Number	*Section Title*	*CPS Control Rev.*
04 01 20	Maintenance of Unit Masonry	1_02/28/06
04 20 00	Unit Masonry	4_04/02/10

DIVISION 05 – METALS

Section Number	*Section Title*	*CPS Control Rev.*
05 12 00	Structural Steel Framing	2_04/10/08
05 21 00	Steel Joist Framing	2_04/10/08
05 31 13	Steel Floor Decking	2_04/10/08
05 31 23	Steel Roof Decking	2_04/10/08
05 40 00	Cold-Formed Metal Framing	2_04/10/08
05 50 00	Metal Fabrications	4_03/22/13

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

Section Number	*Section Title*	*CPS Control Rev.*
06 10 53	Miscellaneous Rough Carpentry	3_04/10/08

06 16 43	Gypsum Sheathing	2_04/10/09
06 40 23	Interior Architectural Woodwork	3_04/10/08

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section Number	*Section Title*	*CPS Control Rev.*
07 11 13	Bituminous Damp proofing	2_08/20/07
07 13 26	Self-Adhering Sheet Waterproofing	1_02/28/06
07 21 00	Thermal Insulation	3_04/10/08
07 21 29	Sprayed Insulation	4_04/10/08
07 27 00.1	Self-Adhering Air and Vapor Barriers	2_11/21/17
07 27 00.2	Fluid Applied Air and Vapor Barriers	2_11/30/17
07 42 43	Composite Wall Panels	5_08/20/07
07 52 00	Modified Bituminous Membrane Roofing	4_11/08/10
07 61 00	Sheet Metal Roofing	5_04/10/08
07 62 00	Sheet Metal Flashing and Trim	4_01/21/10
07 72 00	Roof Accessories	2_08/20/07
07 81 16	Cementitious Fireproofing	2_08/20/07
07 81 23	Intumescent Mastic Fireproofing	2_10/30/07
07 84 13	Penetration Fire stopping	3_04/10/08
07 92 00	Joint Sealants	3_04/10/08
07 95 13	Expansion Joint Assemblies	2_08/20/07

DIVISION 08 – OPENINGS

Section Number	*Section Title*	*CPS Control Rev.*
08 11 13	Hollow Metal Doors and Frames	3_04/10/08
08 14 16	Flush Wood Doors	3_04/10/08
08 31 13	Access Doors and Frames	2_08/20/07
08 41 13	Aluminum-Framed Entrances and Storefronts	3_04/10/08
08 51 13	Aluminum Windows	2_04/04/08
08 56 57	Window Guards – Exterior	2_01/05/07
08 71 00	Door Hardware	4_04/10/09
08 80 00	Glazing	2_04/10/08
08 91 00	Louvers	2_02/20/07

DIVISION 09 – FINISHES

Section Number	*Section Title*	*CPS Control Rev.*
09 01 22	Plaster Patching	2_08/20/07
09 01 24	Plaster Renovation	1_02/28/06
09 01 63	Terrazzo Flooring Restoration	1_02/28/06
09 21 16	Gypsum Board Assemblies	3_04/10/08
09 21 19	Gypsum Board Shaft Wall Assemblies	3_04/10/08
09 30 00	Tiling	3_04/10/08
09 51 13	Acoustical Panel Ceilings	2_04/13/09
09 65 13	Resilient Base and Accessories	3_04/10/08
09 65 20	Solid Vinyl Tile Flooring	4_01/19/15
09 68 16	Sheet Carpeting	3_04/10/08
09 83 19	Acoustical Wall Panels	4_11/14/17
09 91 00	Painting	1_02/28/06
09 91 03	Renovation Painting – Surface Preparation	1_02/28/06
09 91 05	Renovation Painting	1_02/28/06
09 97 23	Concrete Floor Coatings	3_04/10/08

DIVISION 10 – SPECIALTIES

Section Number	*Section Title*	*CPS Control Rev.*
10 11 00	Visual Display Units	2_04/10/08
10 14 03	Interior Signage	2_08/20/07
10 14 05	Exterior Signage	2_08/20/07
10 14 06	Exterior Signage – Remote Parking Lots	2_08/20/07
10 14 07	Exterior Signage – Emergency	2_08/20/07
10 14 19	Dimensional Letter Signage	2_08/20/07
10 21 13	Toilet Compartments	2_04/10/08
10 28 13	Toilet Accessories	3_01/27/11
10 44 00	Fire Protection Specialties	2_08/20/07
10 44 03	Installation of Fire Extinguishers and Cabinets	1_02/28/06
10 51 13	Metal Lockers – Elementary Schools	4_04/10/08

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DIVISION 11 – EQUIPMENT

Section Number	*Section Title*	*CPS Control Rev.*
11 40 00	Food Service Equipment	
11 52 13	Projection Screens	2_08/20/07
11 68 00	Playground Equipment	
11 82 26	Facility Waste Compactors	3_01/21/10

DIVISION 12 – FURNISHINGS

Section Number	*Section Title*	*CPS Control Rev.*
12 24 13	Roller Window Shades – Manual	3_08/22/07
12 32 00	Manufactured Wood Casework	3_04/10/08
12 48 13	Entrance Floor Mats	2_08/20/07
12 48 16	Entrance Floor Grilles	2_08/20/07
12 93 00	Site Furnishing	01_03/18/14

DIVISION 14 – CONVEYING EQUIPMENT

Section Number	*Section Title*	*CPS Control Rev.*
14 24 23	Hydraulic Passenger Elevators	2_09/30/10

DIVISION 15 – RESERVED FOR FUTURE EXPANSION

DIVISION 16 – RESERVED FOR FUTURE EXPANSION

DIVISION 17 – RESERVED FOR FUTURE EXPANSION

DIVISION 18 – RESERVED FOR FUTURE EXPANSION

DIVISION 19 – RESERVED FOR FUTURE EXPANSION

FACILITY SERVICES SUBGROUP

DIVISION 20 – RESERVED FOR FUTURE EXPANSION

DIVISION 21 – FIRE SUPPRESSION

Section Number	*Section Title*	*CPS Control Rev.*
21 05 53	Identification for Fire-Suppression Piping and Equipment	1_05/10/13
21 11 00	Facility Fire-Suppression Piping	1_02/28/06
21 31 13	Electric-Drive, Centrifugal Fire Pumps	1_02/28/06

DIVISION 22 – PLUMBING

Section Number	*Section Title*	*CPS Control Rev.*
22 05 48	Vibration Controls for Plumbing Piping and Equipment	1_02/28/06
22 05 53	Identification for Plumbing Piping and Equipment	2_05/10/13
22 07 00	Plumbing Insulation	4_05/22/08
22 11 16	Domestic Water Piping	1_02/28/06
22 11 19	Domestic Water Piping Specialties	1_02/28/06
22 11 23	Domestic Water Pumps	1_02/28/06
22 11 23.13	Domestic Water Packaged Booster Pumps	2_11/06/09
22 13 16	Sanitary Waste and Vent Piping	1_02/28/06
22 14 13	Facility Storm Drainage Piping	1_02/28/06
22 14 23	Drainage Piping Specialties	1_02/28/06
22 14 26	Facility Storm Sewer Drainage	3_01/21/10
22 14 29	Sump Pumps	1_02/28/06
22 36 00	Commercial Fuel-Fired Water Heaters	1_02/28/06
22 40 00	Plumbing Fixtures	2_02/06/09
22 66 53	Chemical Waste Piping	1_02/28/06

DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

Section Number	*Section Title*	*CPS Control Rev.*
23 05 03	General Provisions for HVAC Work	1_02/28/06
23 05 05	Basic HVAC Materials and Methods	3_08/20/10
23 05 13	Common Motor Requirements for HVAC Equipment	1_02/28/06
23 05 15	Motors – Variable Frequency Controllers	2_03/18/11
23 05 16	Expansion Fittings and Loops for HVAC Piping	1_02/28/06
23 05 19	Meters and Gauges for HVAC Piping	3_08/20/10
23 05 23	General-Duty Valves for HVAC Piping	1_02/28/06
23 05 29	Hangers and Supports for Piping and Equipment	1_02/28/06
23 05 48	Vibration Controls for HVAC Piping and Equipment	1_02/28/06
23 05 53	Identification for HVAC Piping and Equipment	2_05/10/13
23 05 93	Testing, Adjusting, and Balancing for HVAC	3_03/18/11
23 07 00	HVAC Insulation	6_05/10/13
23 09 20	Building Automation System (BAS)	6_03/18/11
23 09 20.01	Building Automation System (BAS) – Exhibits	2_04/03/07
23 09 21	Building Automation System (BAS) – Basic Materials, Interface Devices, and Sensors	6_04/27/10
23 09 22	Building Automation System (BAS) – Operator Interfaces	5_11/08/08
23 09 23	Building Automation System (BAS) – Field Panels	4_11/08/08
23 09 24	Building Automation System (BAS) – Communication Devices	3_04/03/07
23 09 25	Building Automation System (BAS) – Software and Programming	4_11/08/08
23 09 25.01	Building Automation System (BAS) – Software and Programming – Exhibits	3_11/08/08
23 09 26	Building Automation System (BAS) – Sequence of Operation	4_02/28/08
23 09 27	Building Automation System (BAS) – Commissioning	4_03/18/11
23 21 13	Hydronic Piping	5_08/20/10
23 21 23	Hydronic Pumps	1_02/28/06
23 23 00	Refrigerant Piping	2_08/20/10
23 25 00	HVAC Water Treatment	2_03/18/11
23 31 13	Metal Ducts	3_08/20/10
23 33 00	Air Duct Accessories	2_12/06/09

23 34 16	Centrifugal HVAC Fans	1_02/28/06
23 34 23	HVAC Power Ventilators	1_02/28/06
23 36 00	Air Terminal Units	2_12/03/09
23 37 13	Diffusers, Registers, and Grilles	1_02/28/06
23 37 23	HVAC Gravity Ventilators	1_02/28/06
23 41 13	Panel Air Filters	2_05/22/08
23 51 00	Breechings, Chimneys, and Stacks	3_11/06/09
23 51 13	Draft Control Devices	1_02/28/06
23 52 16	Condensing Boilers	6_04/13/10
23 81 26	Split-System Air-Conditioners	1_08/20/10
23 82 16	Air Coils	2_05/22/08
23 82 23	Unit Ventilators	1_12/03/09
23 82 36	Finned-Tube Radiation Heaters	4_02/28/06
23 82 39.13	Cabinet Unit Heaters	4_02/28/06
23 82 39.16	Propeller Unit Heaters	4_02/28/06
23 83 18	Radiant-Heating Hydronic Panels	4_02/28/06

DIVISION 24 – RESERVED FOR FUTURE EXPANSION

DIVISION 25 – INTEGRATED AUTOMATION (NOT USED)

DIVISION 26 – ELECTRICAL

Section Number	Section Title	CPS Control Rev.
26 05 03	General Requirements for Electrical Systems	1_02/28/06
26 05 05	Basic Electrical Materials and Methods	2_03/30/06
26 05 11	Conductors and Cables for Electrical Systems	1_02/28/06
26 05 26	Grounding and Bonding for Electrical Systems	2_03/30/06
26 05 29	Hangers and Supports for Electrical Systems	1_02/28/06
26 05 33	Raceways and Boxes for Electrical Systems	3_04/13/09
26 05 53	Identification for Electrical Systems	2_03/30/06
26 05 73	Overcurrent Protective Device Coordination Study	1_02/28/06
26 08 13	Testing of Electrical Systems	1_02/28/06
26 09 23	Lighting Control Devices	1_02/28/06
26 24 13	Switchboards	1_02/28/06
26 24 16	Panelboards	2_02/28/06
26 27 26	Wiring Devices	2_12/04/08
26 28 13	Fuses	1_02/28/06
26 28 16	Enclosed Switches and Circuit Breakers	1_02/28/06
26 29 13	Enclosed Controllers	1_02/28/06
26 43 00	Surge Protection Devices	2_08/20/10
26 51 00	Interior Lighting	1_02/28/06
26 51 00.01	Interior Lighting – Fixture Schedule	1_02/28/06
26 56 00	Exterior Lighting	1_02/28/06
26 56 00.01	Exterior Lighting – Fixture Schedule	1_02/28/06

DIVISION 27 – COMMUNICATIONS

Section Number	*Section Title*	*CPS Control Rev.*
27 05 03	General Requirements for Communications	1_02/28/06
27 05 38	Wire Basket Type Cable Trays	1_03/18/14
27 05 53	Identification for Communications Systems	1_02/28/06
27 08 00	Commissioning of Communications	1_02/28/06

27 11 16	Communications Cabinets, Racks, and Enclosures	5_08/15/12
27 13 13	Communications Copper Backbone Cabling	2_03/30/10
27 13 23	Communications Optical Fiber Backbone Cabling	3_03/31/11
27 15 00.19	Data Communications Horizontal Cabling	2_03/30/10
27 51 00	Distributed Audio-Video Communications Systems	1_02/28/06
27 51 16	Public Address Systems	1_02/28/06
27 53 13	Master Clock Systems	2_08/20/10
27 53 14	Wireless Master Clock Systems	1_07/23/14
27 53 15	Intercom, Master Clock, and Program Equipment Interface	4_03/30/10
27 60 13	Wireless Access Points for Data Communications	1_02/28/06

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

Section Number	*Section Title*	*CPS Control Rev.*
28 13 13	Access Control System Door Entry (Small Installation)	1_04/10/09
28 16 00	Intrusion Detection	2_03/26/10
28 23 03	CCTV Systems and Components	2_03/10/10
28 23 09	DVS Systems New Schools	4_03/09/12
28 26 07	Emergency Call System	1_02/28/06
28 26 09	Rescue Assistance Systems	2_08/20/10
28 31 00	Fire Detection and Alarm	3_11/08/10

DIVISION 29 – RESERVED FOR FUTURE EXPANSION

SITE AND INFRASTRUCTURE SUBGROUP

DIVISION 30 – RESERVED FOR FUTURE EXPANSION

DIVISION 31 – EARTHWORK

Section Number	Section Title	*CPS Control Rev.*
31 22 14	Earthwork	5_01/21/10
31 22 21	Finish Grading for Synthetic Grass Surfacing	1_04/15/11
31 23 17	Excavating Backfilling and Compacting for Utilities	

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section Number	Section Title	
32 12 16	Hot Mix Asphalt Paving	1_11/08/10
32 13 13	Portland Cement Concrete Paving	2_08/17/07
32 18 14	Synthetic Grass Surfacing System Playfields	3_11/14/16
32 18 16	Playground Protective Surfacing	2_07/06/15
32 31 19	Decorative Metal Fencing and Gates	4_04/05/10

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DIVISION 33 – UTILITIES

Section Number	Section Title	*CPS Control Rev.*
33 10 13	Water Service	3_01/21/10
33 41 00	Sewerage and Drainage	D_10/26/17
33 46 17	Sub-drainage for Synthetic Grass Surfacing	1_04/15/11
33 51 13	Natural Gas Piping	7_12/09/11

DIVISION 34 – TRANSPORTATION (NOT USED)

DIVISION 35 – WATERWAY AND MARINE CONSTRUCTION (NOT USED)

DIVISION 36 – RESERVED FOR FUTURE EXPANSION

DIVISION 37 – RESERVED FOR FUTURE EXPANSION

DIVISION 38 – RESERVED FOR FUTURE EXPANSION

DIVISION 39 – RESERVED FOR FUTURE EXPANSION

PROCESS EQUIPMENT SUBGROUP

DIVISION 40 – PROCESS INTEGRATION (NOT USED)

DIVISION 41 – MATERIAL PROCESSING AND HANDLING EQUIPMENT (NOT USED)

DIVISION 42 – PROCESS HEATING, COOLING, AND DRYING EQUIPMENT (NOT USED)

DIVISION 43 – PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE EQUIPMENT (NOT USED)

DIVISION 44 – POLLUTION AND WASTE CONTROL EQUIPMENT (NOT USED)

DIVISION 45 – INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT (NOT USED)

DIVISION 46 – WATER AND WASTE WATER EQUIPMENT (NOT USED)

DIVISION 47 – RESERVED FOR FUTURE EXPANSION

DIVISION 48 – ELECTRICAL POWER GENERATION (NOT USED)

DIVISION 49 – RESERVED FOR FUTURE EXPANSION

ESMOND ELEMENTARY SCHOOL ENVIRONMENTAL REFERENCE REPORTS

Asbestos Report
Suspect Lead Paint Survey Report
Suspect Lead Paint Survey Report Add
Hazardous Material Report

ESMOND ELEMENTARY SCHOOL GEOTECHNICAL REPORT

Geotechnical Engineering Report

ESMOND ELEMENTARY SCHOOL GROUND PENETRATING RADAR SURVEY REPORT

Ground Penetrating Radar Report

ESMOND ELEMENTARY SCHOOL MASONRY ASSESSMENT

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SECTION 07 27 00.2

FLUID APLIED AIR AND VAPOR BARRIERS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Section includes: Fluid applied air and vapor barrier in exterior wall assemblies where shown and specified.

1. Work includes multiple coat application to attain material thickness specified to ensure barrier performance.
2. Work includes leaving the site after initial installation and return after other building components have been installed to ensure that detailing at all transitions, terminations and penetrations are performed for continuity of the envelope.
3. Work to include stripping in of fasteners, structural supports, and flashings required for exterior cladding system installed by others.
4. Work to include installation of aluminum trims at all terminations of barrier with all adjacent construction to provide substrate for proper sealant installation and to ensure barrier performance.
5. Work to include termination of barrier to all adjacent construction and to ensure barrier performance.

B. Related Documents:

1. Drawings.
2. Book 1: Project Information, Instructions to Bidders, and Execution Documents.
3. Book 2: Standard Terms and Conditions for Construction Contracts.

C. Related Sections:

1. Section 01 14 10 – Pre-Construction Mock-Up.
2. Section 01 35 60.10 – LEED Requirements.
3. Section 03 30 00 – Cast-In-Place Concrete.
4. Section 04 20 11 – Unit Masonry.
5. Section 07 62 00 – Sheet Metal Flashing and Trim.
6. Section 07 92 00 – Joint Sealants.
7. Section 09 21 16 – Gypsum Board Assemblies.

D. The materials in this section are part of the overall USGBC "Leadership in Energy and Environmental Design" (LEED) prerequisites and credits needed for the Project to obtain LEED Silver certification based on *LEED 2009 for Schools* requirements. See Section 01 35 60.10 – LEED Requirements and this section for more information.

1.2 PERFORMANCE REQUIREMENTS

A. Material Performance:

1. Air permeance not to exceed 0.004 cubic feet per minute per square foot under a pressure differential of 0.3 in. water (1,57 pounds per square foot) when tested according to ASTM E 2178.
2. Vapor permeance of 0.1 perms or less when tested according to ASTM E 96.

B. Assembly Performance:

1. Air and vapor barrier assembly that has an air leakage not to exceed 0.040 cubic feet per square foot per minute under a pressure differential of 0.3 in. water (1.57 pounds per square foot) when tested in accordance with ASTM E 2357 and a vapor permeance of 0.1 perms or less when tested according to ASTM C 96:

   a. Provide an assembly capable of withstanding positive and negative combined design wind, fan and stack pressures on the envelope and transfer the load to the structure without damage or displacement.
   b. Provide an assembly that does not displace adjacent materials under full load.
   c. Provide an assembly joined in an airtight and flexible manner to the air barrier material of adjacent assemblies, allowing for the relative movement of assemblies due to thermal and moisture variations and creep, and anticipated seismic movement.
   d. Provide connections to prevent air leakage and vapor migration at all adjacent construction.

C. Connections to Adjacent Materials: Provide connections to prevent air leakage and vapor migration a the following locations:

1. Foundation and walls, including penetrations, ties and anchors.
2. Walls, windows, curtain walls, window walls, storefronts, louvers and doors, including metal transition strips where shown and where required for sealant compatibility.
3. Different wall assemblies and fixed openings within those assemblies.
4. Wall and roof connections.
5. Floors over unconditioned space.
6. Walls, floor and roof across construction, control and expansion joints.
7. Walls, floors and roof to utility, pipe and duct penetrations.
8. Seismic and expansion joints.
9. All other leakage pathways in the building envelope.

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's product data for each product proposed for use in the system, manufacture’s printed instructions for evaluating, preparing and treating substrate, temperature and other limitations of installation conditions, technical data, and tested physical and performance properties.

1. Submit letter from primary materials manufacturer indicating approval of products not manufactured by primary manufacturer.
2. Include statement that materials are compatible with adjacent construction.
3. Submit reports indicating that field adhesion test on all materials to which sealants are adhered have been performed and the changes made, if required, to other approved materials in order to achieve successful adhesion.

4. Include statement that materials / system has been tested and will comply with performance requirements of this specification.

B. Shop Drawings: Submit shop drawings showing locations and extent of air and vapor barrier assemblies and details of each condition and intersections with adjacent construction of other envelope assemblies and materials utilizing shop drawings for them, membrane counter flashings, and details showing the following:

1. How gaps in the construction will be bridged, including inside and outside corners.

   a. Include details of prefinished aluminum transition strips at all terminations of air barrier system against adjacent construction requiring sealant installation.

2. How materials that cover the air and vapor barrier are stripped-in to maintain air-tight condition.
3. How miscellaneous penetrations such as conduits, pipes, electric boxes, mechanical fasteners, and similar items are sealed.
4. Include VOC content of each material, and applicable legal limit in the jurisdiction of the project.
5. Include statement that materials are compatible with adjacent construction.
6. Include recommended values for field adhesion test on each substrate.

C. Samples: Submit samples, 3 by 4 inch minimum size of each material required.

D. Quality Assurance Program:

1. The air barrier system shall be installed according to the methods prescribed by the Air Barrier Association of America and the manufacturer's current specification and installation guidelines.
2. Submit evidence of installer current accreditation and certification under the Air Barrier Association of America's (ABAA) Quality Assurance Program.
3. Submit ABAA certification numbers of installers.

E. Field Test Results of Mock-Up: Submit test results of air leakage test and water leakage test of mock-up in accordance with specified standards, including retesting if initial results are not satisfactory.

F. Compatibility: Submit letter from manufacturer stating that materials proposed for use are permanently chemically compatible and adhesively compatible with adjacent construction and that cleaning materials used during installation are chemically compatible with adjacent materials construction.

G. Submit three (3) fully executed copies of installer's warranty.

H. Certification: Submit a statement signed by the system manufacturer stating that manufacturers shop drawings and system details were reviewed and found to be acceptable.

I. Closeout submittal: At completion of the installation, submit a statement from the ABAA's on-site representative that the installed system complies with the system manufacturer's installation details.

J. LEED Submittals (see also LEED Project Plan on Sheet G4.1 of drawing set):

1. Complete the "Materials Credits Documentation Sheet" attached to Section 00 35 60.10 – LEED Requirements for products in this section. Include statement indicating costs for each product having recycled content.
2. Credit MR 4: Submit product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.
3. Credit MR 5: Submit product data for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
4. Credit IEQ 4: Submit evidence that all sealants installed within the building envelope meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Currently accredited by the Air Barrier Association of America (ABAA) whose applicators are certified in accordance with the ABAA Quality Assurance Program.

B. Manufacturer: Obtain primary materials from a single manufacturer regularly engaged in manufacturing air and vapor barrier membrane as specified. Obtain secondary materials from a source acceptable to the primary materials manufacturer.

C. Accredited Laboratory Testing for Materials: Laboratory accredited by International Accreditation Service Inc. (IAS), American Association for Laboratory Accreditation (A2LA), or the Standards Council of Canada (SCC).

D. Pre-installation Conference: Conduct conference at Project site.

1. Include installers of other construction connecting to air barrier, Contractor, Architect, and Authorized Commission Representative.
2. Review air barrier requirements including status of all required submittals required prior to commencement of work, surface preparation, substrate condition and pretreatment, minimum substrate curing period, forecasted weather conditions, special details and sheet flashings, mockups, installation procedures, sequence of installation, testing and inspecting procedures, and protection and repairs.

E. Field Quality Assurance: Implement the ABAA Quality Assurance Program requirements. Cooperate with ABAA inspectors and independent testing and inspection agencies engaged by the Owner (if any). Do not permit covering of the air and vapor barrier membrane until it has been inspected, tested and accepted.

F. Mock-Up: Build mock-up of barrier on exterior wall assembly where directed by Architect, minimum 10 ft. by 10ft.

1. Coordinate construction of mockup to permit inspection and testing before external insulation and cladding is installed.
2. If the Architect determines mockups do not comply with requirements, reconstruct

mockups and apply barrier until mockups are approved.

3. Remove mock-up when acceptable to the Architect.

G. Mock-Up Tests for Air and Water Infiltration: Test mock-up at Contractor's expense for air and water infiltration in accordance with ASTM E 1186 (air leakage location), ASTM E 783 (air leakage quantification), and ASTM E 1105 (water penetration). Use smoke tracer to locate sources of air leakage. If deficiencies are found, reconstruct mock-up and retest until satisfactory results are obtained. Deficiencies include air leakage beyond values specified, uncontrolled water leakage, unsatisfactory workmanship.

1. Perform the air leakage tests and water penetration test of mock-up prior to installation of cladding and trim but after installation of all fasteners for cladding and trim and after installation of other penetrating elements having been flashed in.
2. Perform additional tests as necessary to achieve specified performance criteria after initial testing.

H. Mock-Up Tests for Membrane Adhesion: Test mock-up at Contractor's expense of membrane for adhesion at in accordance with ASTM D 4541 using a Type 1 pull tester except that the disk used shall be 100mm in diameter and the membrane shall be cut through to separate the material attached to the disk from the surrounding material. Perform test after curing period recommended by the manufacturer. Record mode of failure and area which failed in accordance with ASTM D 4541.

1. Modify products or procedures and retest until successful.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver materials to Project site in original packages with seals unbroken, labeled with manufacturer's name, product, date of manufacture, and directions for storage.

B. Store materials in their original undamaged packages in a clean, dry, protected location and within temperature range required by air and vapor barrier membrane manufacturer. Protect stored materials from direct sunlight.

C. Handle materials in accordance with manufacturer's recommendations.

1.6 PROJECT CONDITIONS

A. Temperature: Install air and vapor barrier within range of ambient and substrate temperatures recommended by air and vapor barrier manufacturer. Do not apply air and vapor barrier to a damp or wet substrate.

B. Field Conditions: Do not install air and vapor barrier in snow, rain, fog, or mist. Do not install air and vapor barrier when the temperature of substrate surfaces and surrounding air temperatures are below those recommended by the manufacturer.

1.7 WARRANTY

A. Installation Warranty: Provide installer's 2 year warranty from date of Substantial Completion, including all components of the air and vapor barrier assembly, against failures including loss of air tight seal, loss of watertight seal, loss of adhesion, loss of cohesion, failure to cure properly.

PART 2 - PRODUCTS

2.1 MATERIALS / SYSTEM

A. Fluid-Applied Air and Vapor Barrier: Use regular or low-temperature formulation depending on site conditions, within temperature ranges specified by manufacturer. Provide related accessories including primer, seam tape, mastic, fluid and sealant recommended by manufacturer. Subject to compliance with requirements, provide a system by one of the following:

1. Carlisle Coatings and Waterproofing.
2. Grace Construction Products.
3. Henry.
4. Tremco.
5. WR Meadows.

B. Sheet Metal Transition Strips: Prefinished aluminum, shaped and cut to fit all termination conditions of air barrier system against any adjacent construction. Strips shall be fabricated in longest lengths possible to minimize joints. Strips shall be set in a continuous bed of compatible non-hardening sealant, adjacent strips shall be lapped and sealed to shed and prohibit water intrusion. Metal finish must be fully compatible with all sealants to be used to close building envelope.

1. Aluminum Sheet Stock: ASTM B 209 (ASTM B 209M), 3003-H14, with a minimum thickness of 0.040" (1.0mm), unless otherwise indicated.
2. Mastic Sealant: Polyisobutylene; non-hardening, non-skinning, non-drying, nonmigrating sealant.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions under which air and vapor barrier assemblies will be applied, with Installer present, for compliance with requirements.

1. Verify that surfaces and conditions are suitable prior to commencing work of this section. Do not proceed with installation until unsatisfactory conditions have been corrected.
2. Do not proceed with installation until after minimum concrete curing period recommended by air and vapor barrier manufacturer.
3. Ensure that the following conditions are met:

a. Surfaces are sound, dry, even, and free of oil, grease, dirt, excess mortar or other contaminants.
b. Concrete surfaces are cured and dry, smooth without large voids, spalled areas or sharp protrusions.
c. Masonry joints are flush and completely filled with mortar, and all excess mortar sitting on masonry ties has been removed.

4. Verify substrate is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263 and take suitable measures until substrate passes moisture test.
5. Verify sealants used in sheathing are compatible with membrane proposed for use.

3.2 SURFACE PREPARATION

A. Clean, prepare, and treat substrate according to manufacturer's written instructions. Ensure clean, dust-free, and dry substrate for air and vapor barrier application. Mask off adjoining Surfaces to prevent overspray and spillage.

B. Prime substrate for application of sheet membrane transition strips as recommended by manufacturer and as follows:

1. Prime masonry, substrates with conditioning primer.
2. Prime glass-fiber surfaced gypsum sheathing an adequate number of coats to achieve required bond, with adequate drying time between coats.
3. Prime wood, metal, and painted substrates with primer.
4. Prepare, treat, and seal vertical and horizontal surfaces at terminations and penetrations through air and vapor barrier and at protrusions.

C. Prime substrate for application of fluid-applied air and vapor barrier if recommended by manufacturer based on project conditions and as follows.

3.3 INSTALLATION

A. Air and Vapor Barrier Installation: Install transition strip materials and fluid-applied air and vapor barrier to provide continuity throughout the building envelope. Install materials in accordance with ABAA recommendations and manufacturer's recommendations and as follows, unless manufacturer recommends other procedures in writing based on project conditions or particular requirements of their recommended materials:

1. Provide materials and installation to bridge and seal the following, but not limited to, air leakage pathways and gaps:

a. Connection of the wall air and vapor barrier system to the roof air and vapor barrier system.
b. Connection of the wall air and vapor barrier system to the foundation.
c. Expansion joints and control joints.
d. Openings and penetrations of window frames, storefront, curtain wall, window wall, door framing, louver framing, ventilator framing, and wall dampers.
e. Barrier precast concrete and other envelope systems.

f. Perimeter of all wall-penetrating piping, conduits, ducts, vents, outside air-intakes, and similar penetrations.
g. Masonry ties, screws, bolts and similar penetrations.
h. All other air leakage pathways in the building envelope.

2. Apply primer for transition strips at rate recommended by manufacturer. Allow primer to dry completely before transition strip application. Apply as many coats as necessary for proper adhesion.
3. Apply primer for fluid-applied air and vapor barrier as recommended by fluid-applied air and vapor barrier manufacturer. Based on manufacturer's recommendation, no primer may be required for the fluid-applied materials.
4. Apply fluid-applied air and vapor barrier using equipment and methods recommended by manufacturer, to achieve a minimum dry film thickness as recommended by the manufacturer.
5. Apply fluid-applied air and vapor barrier and transition strips to shed water naturally without interception by a sheet edge, unless that edge is sealed with permanently flexible termination mastic.
6. Position subsequent sheets of transition strips applied above so that membrane overlaps the membrane sheet below by a minimum of 2 inches (50 mm), unless greater overlap is recommended by manufacturer or shown on drawings. Roll into place with roller.
7. Overlap horizontally adjacent pieces of transition strips a minimum of 2 inches (50 mm), unless greater overlap is recommended by manufacturer or shown on drawings. Roll seams with roller.
8. Seal around all penetrations with termination mastic, extruded silicone sealant, membrane counterflashing or other procedure in accordance with manufacturer's recommendations and as shown on drawings.
9. Connect air and vapor barrier in exterior wall assembly continuously to all adjacent construction and seal penetrations, using accessory materials and methods in accordance with the manufacturer's recommendations and as specified herein.

   a. At all air barrier system terminations install aluminum transition strips in full bed of compatible mastic to completely seal to air barrier and mechanically fasten to substrate.
   b. Lap and fully seal all joints in aluminum strips with compatible mastic.
   c. Remove excess mastic on outer surface of aluminum strips to facilitate adhesion of sealants to adjacent systems.

10. At changes in substrate plane, provide transition material (bead of sealant, mastic, extruded silicone sealant, membrane counterflashing or other material recommended by manufacturer) under membrane to eliminate all sharp 90 degree inside corners and to make a smooth transition from one plane to another.
11. Provide mechanically fastened non-corrosive metal sheet to span gaps in substrate plane and to make a smooth transition from one plane to the other. Membrane shall be continuously supported by substrate or as recommended by the manufacturer.
12. At through-wall flashings, provide an additional 6 inch wide strip of manufacturer's recommended membrane counterflashing to seal top of through-wall flashing to membrane or as recommended by manufacturer. Seal exposed top edge of strip with bead of mastic or as recommended by manufacturer.
13. At deflection and control joints, provide air barrier manufacturer's standard detailing, and/or manufacturer's approved job-specific joint detailing to accommodate anticipated

movement. Provide backup for the membrane to accommodate anticipated movement. Coordinate and align all locations of sheathing and air barrier movement joints.

14. At expansion and seismic joints provide transition to the joint assemblies.
15. Apply a bead or trowel coat of mastic along membrane seams at reverse lapped seams, rough cuts, and as recommended by the manufacturer.
16. At end of each working day, seal top edge of membrane to substrate with termination mastic.
17. Do not allow materials to come in contact with chemically incompatible materials.
18. Do not expose membrane to sunlight longer than as recommended by the manufacturer.
19. Inspect installation prior to enclosing assembly and repair punctures, areas of "ghosting" or inadequate coverage, damaged areas and inadequately lapped seams with reapplication and/or patch of membrane lapped as recommended by manufacturer.

3.4 FIELD QUALITY CONTROL

A. Owner's Inspection: At Owner's option, Owner will engage a qualified independent testing and inspection agency. Cooperate with Owner's inspection agency. Allow access to work areas and staging. Notify Owner's agency in writing of schedule for Work of this Section to allow sufficient time for observation. Do not cover Work of this Section until testing and inspection is accepted.

B. Air Barrier Association of America Installer Audits: Contractor shall perform and pay for ABAA installer audit certification. Allow access to work areas and staging. Do not cover Work of this Section until installer audit is accepted.

C. Testing Quantity: All testing of newly installed barrier shall be as specified by ABAA.

D. Testing Method: Testing method shall include Bubble Gun Testing per ASTM 1186; Adhesion Testing per ASTM 4541, and Thickness Testing per manufacturer. All tests shall be in accordance with ABAA.

E. All work that fails the field tests shall be re-executed until the installation passes the field testing. Modify methods of installation of subsequent work to incorporate required corrections identified by the testing process and approved by architect and commission representative and ABAA manufacturers authorized rep.

3.5 PROTECTING AND CLEANING

A. Protect air and vapor barrier assemblies from damage during application and remainder of construction period, according to manufacturer's written instructions.

1. Coordinate with installation of materials which cover air and vapor membrane, to ensure exposure period does not exceed that recommended by the air and vapor barrier manufacturer.
2. Do not allow materials to come in contact with chemically incompatible materials.
3. Do not expose membrane to sunlight longer than as recommended by the manufacturer.

B. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction and acceptable to the primary material manufacturer.

END OF SECTION

SECTION 10 21 13

TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes overhead braced toilet compartments constructed of Phenolic or solid Polymer at Contractor's option.

1.2 SUBMITTALS

A. Product Data: Submit complete printed data for each type of product. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

1. Submit full line color charts for color selections by the Architect.

B. Maintenance Data: Submit maintenance and cleaning data for inclusion in Maintenance Manual.

C. LEED Submittals:

1. Credit MR 4.1[and Credit MR 4.2]: Submit product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content.
2. Credit MR 5.1[and Credit MR 5.2]: Submit product data for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.

1.3 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls, columns, ceilings, and other construction contiguous with toilet compartments by field measurements before fabrication and indicate measurements on Shop Drawings.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with specification requirements and availability of product, provide products by one of the following:

1. Accurate.
2. Ampco.
3. Bobrick.
4. Bradley.

5. Contec.
6. General Accessory Manufacturing Co. (GAMCo).
7. General Partitions.
8. Global Steel Products.
9. Metpar.
10. Partition Systems.
11. Santana.

2.2 SOLID-POLYMER UNITS

A. Door, Panel, and Pilaster Construction: Solid, high-density polyethylene (HDPE) or polypropylene (PP) panel material, not less than 1 inch thick, seamless, with eased edges, and with homogenous color and pattern throughout thickness of material.

1. Color and Pattern: As selected by Architect from manufacturer's full range of colors and patterns.
2. Maximize the percentage of recycled materials, but not less than 20%.

B. Pilaster Shoes: Stainless steel, ASTM A 666, Type 302 or 304, not less than 0.0312 inch (0.8 mm) specified thickness and 3 inches (75 mm) high, finished to match hardware.

C. Brackets (Fittings):

1. Full-Height (Continuous) Type: Manufacturer's standard design; extruded aluminum or stainless steel.

D. Door Sightline Guards: Provide 1/4” x 2” full length aluminum or stainless-steel strap secured to the out swing edge of both side of door secured at 4” centers and each end with one way screws to eliminate sight lines.

E. Heat-Sink Strip: Manufacturer's standard continuous, extruded-aluminum strip fastened to exposed bottom edges of solid-polymer components to prevent burning.

2.3 ACCESSORIES

A. Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories.

1. Material: Stainless steel or Chrome-plated brass.

B. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.

C. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel or chrome-plated steel or brass, finished to match hardware, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use hot-dip galvanized or other rust-resistant, protective-coated steel.

2.4 FABRICATION

A. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, fasteners, and anchors at pilasters to suit floor conditions. Make provisions for setting and securing continuous head rail at top of each pilaster. Provide shoes at pilasters to conceal supports and leveling mechanism.

B. Doors: Unless otherwise indicated, provide 24 inch wide in-swinging doors for standard toilet compartments and 36 inch wide out-swinging doors with a minimum 32 inch wide clear opening for compartments indicated to be accessible to people with disabilities.

1. Hinges: Manufacturer's standard self-closing type that can be adjusted to hold doors open at any angle up to 90 degrees.
2. Latch and Keeper: Manufacturer's standard surface-mounted latch unit designed for emergency access and with combination rubber-faced door strike and keeper. Provide units that comply with accessibility requirements of authorities having jurisdiction at compartments indicated to be accessible to people with disabilities.
3. Coat Hook: Manufacturer's standard combination hooks and rubber-tipped bumper, sized to prevent door from hitting compartment-mounted accessories.
4. Door Bumper: Manufacturer's standard rubber-tipped bumper at out-swinging doors.
5. Door Pull: Manufacturer's standard unit at out-swinging doors that complies with accessibility requirements of authorities having jurisdiction. Provide units on both sides of doors at compartments indicated to be accessible to people with disabilities.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.

1. Maximum Clearances:

a. Pilasters and Panels: 1/2 inch.
b. Panels and Walls: 1 inch.
c. Door Edges: 1/4 inch nominal.

2. Brackets: Secure panels to walls and to pilasters with full height continuous brackets.

a. Locate wall brackets so holes for wall anchors occur in masonry or tile joints.
b. Align brackets at pilasters with brackets at walls.

B. Overhead-Braced Units: Secure pilasters to floor and level, plumb, and tighten. Secure continuous head rail to each pilaster with not less than two fasteners. Hang doors to align tops of doors with tops of panels and adjust so tops of doors are parallel with overhead brace when doors are in closed position.

3.2 ADJUSTING

A. Hardware Adjustment: Adjust and lubricate hardware according to manufacturers written instructions for proper operation. Set hinges on in-swinging doors to hold doors open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors to return doors to fully closed position.

END OF SECTION

SECTION 32 18 16

PLAYGROUND PROTECTIVE SURFACING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes unitary synthetic poured rubber seamless surface.

1.2 DEFINITIONS

A. Critical Height: Standard measure of shock attenuation. According to CPSC No. 325, this means "the fall height below which a life-threatening head injury would not be expected to occur."

B. SBR: Styrene-butadiene rubber.

1.3 PERFORMANCE REQUIREMENTS

A. Impact Attenuation: ASTM F1292.

1. G-Max (Peak Deceleration) Score: Less than 200.
2. Head Injury Criteria (HIC) Score: Less than 1000.

B. Accessibility of Surface Systems: ASTM F 1951.

C. Water Permeability: The playground surfacing system shall provide a flow-through rate of not less than six (6) inches of rainfall per hour.

1.4 SUBMITTALS

A. Action Submittals:

1. Product Data: For each type of product indicated.

   a. Provide documentation, for products having recycled content, indicating percentages by weight of postconsumer and pre-consumer recycled content.

2. Shop Drawings: Submit shop drawings showing scaled plans, elevations, sections, and large-scale details of the protective playground surfacing system. Provide large-scale details where information cannot be shown, to the satisfaction of the Architect, in the elevations and sections. Include materials; drainage (where required); penetration details; edge terminations; installation sequence; patterns made by multiple colors of surfacing (where indicated); use zones for playground equipment; and critical heights for protective surfacing and fall heights for playground equipment. Plans, elevations, and sections shall

be drawn at a scale of not less than 1/4" = 1'-0". Details shall be drawn at a scale of not less than 3" = 1'-0".

3. Samples for Initial Selection: For each type of playground surface system indicated.

   a. Include similar samples of playground surface system and accessories involving color selection.

4. Samples for Verification: For each type of playground surface system indicated.

   a. Samples of synthetic rubber seamless surface, 6-inches square and full depth of the surfacing system.
   b. Full-size cross section of border edging, 6-inches long.

B. Informational Submittals:

1. Qualification Data: For Installer.
2. Field quality control test reports.
3. Warranty: Sample of special warranty.

C. Closeout Submittals:

1. Maintenance Data: For playground surface system to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Surfacing System Certification: The playground protective surfacing system provided shall be certified as compliant with requirements outlined in ASTM F 1292, through the International Play Equipment Manufacturers Association, Inc. (IPEMA) Certification Program for Playground Surfacing.

B. Manufacturer Qualifications: Award the playground protective surfacing work to a single, certified firm that specializes in the manufacturing of playground protective surfacing; who has successfully produced work similar in design and extent to that required for the Project for a minimum of ten (10) years, in not less than twenty (20) projects, each a minimum of 2,500 square feet in area, in the last two years; and whose work has resulted in construction with a record of successful in-service performance in the same geographic area. The manufacturer shall have sufficient production capacity, organized internal quality control and testing procedures, and written installation manuals to ensure manufacturing of protective surfacing required without causing a delay in the Work.

C. Installer Qualifications: Award the playground protective surfacing work to a single firm that specializes in the installation of playground protective surfacing; whose workers are trained and approved by the surfacing system manufacturer to install their materials; who has successfully installed work similar in design and extent to that required for the Project, in not less than five (5) projects of similar scope, to the satisfaction of the Architect; and whose work has resulted in construction with a record of successful in-service performance for a period of five (5) years.

D. Source Limitations: Obtain playground surface system materials, including primers and binders, from single source from single manufacturer. Provide repair materials from same manufacturer as primary protective surfacing materials.

E. Standards and Guidelines: Comply with CPSC No. 325, "Handbook for Public Playground Safety"; ASTM F 1292; and ASTM F 1487.

F. Pre-Installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Prior to start of the protective surfacing work, and at the Contractor's direction, meet at the Site and review the construction schedule, availability of materials, Installer's personnel qualifications, submittals, equipment and facilities needed to make progress and avoid delays, installation procedures, condition of substrates, and coordination with other work. Attendees shall include the Contractor, Board Authorized Representative, Architect, Installer, Representative of the Testing Agency and any other subcontractors or material technical representatives whose work, or products, must be coordinated with the playground protective surfacing work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store materials in manufacturer's original containers, with seals unbroken and identification labels intact until time of use.

B. Store materials on elevated platforms in a dry location, protected from the weather, and within a temperature range of not less than 50 deg F and not more than 85 deg F for a minimum of 72 hours prior to installation.

1. If materials are not stored in an enclosed location, provide protective, waterproof cover, securely tied. Cover shall allow air circulation to prevent condensation.

1.7 PROJECT CONDITIONS

A. Environmental Limitations:

1. Do not install surfacing system on wet or excessively damp substrates, or substrates that are less than 40 deg F.
2. Do not install surfacing system if rain is imminent or forecasted before time required for adequate cure of binders, or 48 hours following installation, whichever is greater.
3. Install surfacing system when ambient air temperature is 40 degrees F and rising, but less than 85 degrees F, and forecasted to remain above 40 degrees F for not less than 48 hours following installation.
4. Ambient air temperatures shall be measured in the shade, away from paved surfaces and other artificial sources of heat.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form, executed by the Installer and manufacturer, stating they agree to repair or replace components of playground surface system that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Reduction in impact attenuation.

b. Deterioration of surface, and other, materials beyond normal weathering.
c. Separation of surfacing material at changes in finish color or seams.
d. Separation of material at border.
e. Telegraphing of joints in substrates through finish surface.

2. Warranty Period: Seven (7) years from date of Preliminary Acceptance / Substantial Completion.

PART 2 - PRODUCTS

2.1 UNITARY SYNTHETIC DUAL-DENSITY SEAMLESS SURFACE

A. Surface System: Poured-in-place, two-layer system with top course over base course. Provide manufacturer's standard thickness for each layer as required for overall thickness indicated, tested for impact attenuation according to ASTM F 1292 and for accessibility according to ASTM F 1951.

1. Products: Subject to compliance with requirements, provide one of the following:

a. Surface America; Play Bound.

1) URL: www.surfaceamerica.com
2) Local Representative: NuToys Leisure Products, Moira Staggs, 708.579.9055.

b. Surface Solutions & Design.

1) URL: www.surfacesolutionsdesign.com
2) Local Representative: Jean Savage, 630.247.7308.

c. Vitriturf

1) URL: www.vitriturf.com
2) Local Representative: Image Nation, Michele Kuhlman, 847.640.0904

2. Top Course: Formulation of EPDM rubber particles, with minimum of 20 percent and maximum of 26 percent of ethylene propylene-diene-saturated polymethylene main chain along with other organic and inorganic components.

a. Color Mix: 50% black and 50% blue.
b. Top course mix proportion by weight: 18% polyurethane, 82% rubber

3. Base Course: 100% post-consumer recycled SBR strands and particles, consisting of rubber buffings and rubber crumb, as defined in ASTM F 2479, and polyurethane, site mixed and applied.

a. Base course mix proportion by weight: 14% polyurethane, 86% rubber

4. Binder: Weather-resistant, UV-stabilized, flexible, non-yellowing, non-hardening, 100 percent solids polyurethane complying with requirements of authorities having jurisdiction for nontoxic and low VOC content.
5. Critical Fall Height: As indicated on Drawings or, if not indicated, as directed by Architect or Manufacturer. The critical fall height shall be appropriate to the existing playground equipment and/or the playground equipment being installed.
6. Primer/Adhesive: Manufacturer's standard primer and weather-resistant, moisture-cured polyurethane adhesive suitable for unit, substrate, and location indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Reports:

1. Aggregate Base Testing: The Contractor shall provide the installer with copies of test reports documenting the aggregate base compaction values and permeability of the sub-grade system.
2. Planarity Survey: The Contractor shall provide the installer with planarity survey data, including the drainage system, as prepared by a State of Illinois Licensed Land Surveyor.

B. Examine aggregate base materials to receive playground surfacing system, with installer present, for compliance with manufacturer's requirements and other conditions affecting performance.

1. Verify that aggregate base materials are dry and free of foreign or deleterious materials that could interfere with installation of the playground surfacing system.
2. Verify the finish elevations, slopes, and planarity of the aggregate base material comply with requirements of the Project and surfacing system manufacturer.
3. Record findings, prepare a written report, signed by Contractor and installer, and submit copies of report to the Architect and the Owner.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

D. Commencement of installation shall indicate acceptance of existing conditions

3.2 PREPARATION

A. Thoroughly clean the aggregate base materials of foreign material, soil, and all other substances and materials that may be detrimental to permeability of the aggregate base and/or installation of the playground surface system. Take precautions as required to ensure the aggregate base remains free of foreign materials throughout the installation period.

B. Variations in Elevation: Repair variations in elevation of completed subsurface greater than plus 1/4 inch or minus 1/2 inch over 10 feet in any direction.

3.3 Protection of Adjacent Surfaces: Protect adjacent surfaces and materials during installation of protective surfacing. Correct damage, if any, by cleaning, repairing, and replacing materials as

approved by Architect and Board Authorized Representative and required to leave surfaces in undamaged condition. INSTALLATION OF SEAMLESS PLAYGROUND SURFACE SYSTEMS

A. General: General: All work shall be performed by skilled workmen, who are experienced and trained by the manufacturer in the installation of the playground surfacing system. Work shall be performed in strict accordance with the Drawings, reviewed shop drawings, and manufacturer's written installation instructions in the thickness indicated.

A. Seamless Surface: Mix and apply components of playground surface system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface and impact-attenuating system of total thickness indicated.

1. Substrate Primer: Apply over prepared substrate at manufacturer's standard spreading rate for type of substrate.
2. Poured Base Course: Spread evenly over primed substrate to form a uniform layer applied at manufacturer's standard spreading rate in one continuous operation, with a minimum of cold joints.
3. Intercoat Primer: Over cured base course, apply primer at manufacturer's standard spreading rate.
4. Top Course: Spread over primed base course to form a uniform layer applied at manufacturer's standard spreading rate in one continuous operation and, except where color changes, with no cold joints. Finish surface to produce manufacturer's standard wearing-surface texture.

    a. Seams or breaks in uniformly colored surfacing fields will not be accepted. Where required by Architect or Board Authorized Representative, Contractor shall be responsible for removing and reinstalling surface areas with seams at no cost to the Board.
    b. Where colored pattern is indicated, place adjacent colored material as soon as placed colored material is sufficiently cured, using primer or adhesive if required by manufacturer's written instructions.

5. Edge Treatment: As indicated. Fully adhere edges to substrate with full coverage of substrate. Maintain fully cushioned thickness required to comply with safety performance requirements.
6. Protection: When air temperature is less than 40 degrees F, provide enclosures and auxiliary heat to maintain air temperature above 40 degrees F for 72 hours prior to installation and 48 hours following installation at the Contractor’s expense.

    a. Enclosure support should not be installed play structure.

3.4 FIELD QUALITY CONTROL

A. Testing Agency: Owner to engage a qualified testing agency to perform tests and inspections.

B. Testing Services: Testing and inspecting of completed applications of playground surface system shall take place according to ASTM F 1292.

C. Contractor to remove and replace applications of playground surface system where test results indicate that it does not comply with requirements at the Contractor's expense.

D. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with requirements.

E. Tests and inspections require Owner approval prior to the issuance of Preliminary Acceptance.

3.5 PROTECTION

A. Prevent traffic over surfacing system for not less than 48 hours after installation.

B. Provide protection during remainder of construction activities as necessary to ensure playground surfacing and adjacent work will be free of damage at time of Preliminary Acceptance / Substantial Completion. Contractor will be responsible for replacing playground surfacing that is damaged or vandalized during construction at no additional cost to the Board.

END OF SECTION

SECTION 32 31 19

DECORATIVE METAL FENCES AND GATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes ornamental fence and related as indicated and as specified.

1.2 SUBMITTALS

A. Product Data: Submit complete printed data.

1. Include gate hardware.

B. Shop Drawings: Submit complete fabrication and installation drawings. Show location of fencing and gates posts, and details of post installation, expansion joints, and welding details.

C. Descriptive Data: Submit detailed description of entire coating process including metal preparation and coating.

1. Include experience of applicators.

D. Test Reports: Submit design mix for ready-mixed concrete and delivery tickets.

E. Samples: Submit one (1) sample, approximately 4-inches long, of rails and picket having proposed finish system.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced Installer who has at least three years' experience and has completed at least five fence projects with similar material and scope to that indicated for this Project with a successful construction record of in-service performance.

B. Coater Qualifications: Engage an experienced Coater who has at least three years experience and has completed fencing projects in the Chicago land area where the installed product can be viewed. Where multiple vendors are used to provide the coating system provide evidence that the vendors have prior experience in the coordination of the work. Further, where multiple vendors are used to provide the coating system the warranty shall be provided jointly.

C. Pre-installation Conference: Conduct preinstallation conference at the Site in compliance with requirements of Division 01 Section "Project Management and Coordination":

1. Review survey and lot line stakes to ensure proper location.
2. Coordinate connections to existing fencing (if any).
3. Review connections to wood fencing (if any).

1.4 PROJECT CONDITIONS

A. Field Measurements: Verify layout information for fencing shown on the Drawings in relation to the property survey and structures. Verify dimensions by field measurements. Indicate measurements on final Shop Drawings.

1.5 WARRANTY

A. Manufacturer's Warranty: Written warranty, signed by the ornamental fencing manufacturer agreeing to repair or replace components of the ornamental fencing system that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to,

1. Faulty operation of gate hardware.
2. Deterioration of metals, metal finishes, and other materials beyond normal weathering. Included are cracking, peeling, blistering, and corrosion of the base metal.

B. Warranty Period for Ornamental Fencing: Five years from date of Preliminary Acceptance / Substantial Completion.

C. Warranty Period for Metal Finish: Ten years from date of Preliminary Acceptance / Substantial Completion.

PART 2 - PRODUCTS

2.1 FENCE SECTIONS AND POSTS

A. Material Configuration: Use only materials, which are smooth and free of surface blemishes including, pitting, seam marks, roller marks, rolled trade names and roughness.

1. Steel Plates, Shapes and Bars: ASTM A 36.
2. Bolts: Tamper-resistant design, coated to match fence.
3. Material sizes as follows:

a. Pickets: 5/8-inch solid bars at 4-3/4-inches o.c.
b. Rails: 1-1/2-inch x 1/2-inch x 1/8-inch channel.
c. Line Posts: 2-1/2-inches x 2-1/2-inches x 11 gauge square tube with spot welded steel cap.
d. End, Corner, and Gate Posts: 4-inches x 4-inches x 11 gauge square tube with spot welded steel caps.
e. Bolts: 3/8-inch x 1/2-inch cup head, electroplated in accordance with ASTM B 633, thickness for service condition SC 3(severe), minimum 0.0005-inch, finish Type II, black chromate conversion coating.
f. Nuts: Security type, tamperproof design, electroplated in accordance with ASTM B 633, thickness for severe conditions SC 3(severe), minimum 0.0005-inch, finish type II, black chromate conversion coating.
g. Brackets: 2-inches x 3/4-inch x 1-inch wide x 1/4-inch thick angle section welded to post.

B. Fabricate of welded construction, to forms and profiles indicated. Provide for field connections of panels to posts to be bolted with tamper-resistant bolts.

C. Fabricate true to line and square with accurate angles and surfaces and straight edges. Weld corners and seams continuously, complying with AWS recommendations using MIG or TIG welding process. Grind exposed welds smooth and flush to match and blend with adjoining surfaces.

D. Provide for anchorage of panels to posts by welding of angle brackets drawings with full penetration continuous weld by MIG or TIG method. Provide anchorage of steel caps to posts with a full penetration weld by MIG or TIG method, 1-inch long, on the same two sides of the post as the angle brackets.

E. Expansion Joints: Provide slotted post tabs with plastic washers between post tab and panel tab.

F. Fabricate joints in a manner to exclude water or provide weep holes where water may accumulate.

2.2 STEEL GATES

A. Fabrication: Fabricate frame of steel tubes of sufficient size to support gate free of sag, closed ends, welded all around and ground smooth to eliminate water entry. Provide pickets matching fence sections.

B. Gate Hardware:

1. Hinges: Size, material, and number to suit gate size, non-lift off type, offset to permit 180-degree gate opening.
2. Latch: Gate latch to receive padlock; non-ferrous operating parts. Finish to match fence.
3. Keeper: Provide a keeper for vehicle gates that automatically engages gate leaf and holds it in the open position until manually released.
4. Gate Stops: Provide gate stops for double gates consisting of mushroom-type flush plate with anchors, set in concrete, and designed to engage a center drop rod or plunger bar. Include a locking device and padlock eyes as an integral part of the latch, permitting both gate leaves to be locked with a single padlock.
5. Sliding Gates: Top rail gate incorporating a track for the top rollers. Brace frame to prevent sagging, safety enclosure and guide posts to keep the gate on the rollers.

2.3 FINISH

A. Surface Preparation:

1. Blast fabricated assemblies and accessories to near white no more than 8 hours prior to the coating process. Clean in a heated two-stage process including spray washing and cleaning, utilizing a total immersion cleaning process each stage utilizing a heated alkaline cleaner to remove all grease, dirt or other contaminants.
2. Rinse by totally immersing assemblies and assemblies in a continuously overflowing rinse tank and then totally immerse in a continuously overflowing conditioner to prepare surface for coating.

B. Coating:

1. Totally immerse assemblies and accessories in a heated zinc phosphate solution.

2. Rinse by total immersion in a continuously overflowing rinse tank to remove excess zinc phosphate solution.
3. Totally immerse in a continuously overflowing tank containing PPG Powercron 590 (or equivalent) heavy metal free cationic electrode position coating. Rinse by total immersion in a continuously overflowing tank to remove excess coat solution.
4. Final rinse, dry, and inspect each assembly and accessory.
5. Apply two uniform color coats by polyester TGIC powder coating by means of electrostatic deposition to a total thickness of 8 mils.
6. Apply a final coat of clear UV stabilized polyester TGIC powder coating.
7. Between each of the powder coats, cure by heating to the manufacturer's recommended temperature and hold until the cure is complete. Monitor temperature in the curing oven so that the temperature held within the coating manufacturers recommended temperature range.

2.4 CONCRETE

A. Provide 3000 psi air-entrained ready-mixed concrete conforming to ASTM C 94, maximum 3 inches slump.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Excavation: Drill or hand-excavate (using post-hole digger) to uniform diameters at the spacing required, in firm, undisturbed or compacted soil.

1. Remove from the site the same day as it was dug and dispose at a permitted subtitle D landfill to comply with Division 31 Section "Soil, Fill, Backfill, CU Structural Soil and Construction and Demolition Debris Removal."
2. If not indicated on Drawings, excavate holes for each post to not less than four times the largest cross section of post.
3. Unless otherwise indicated, excavate hole depths approximately 3 inches lower than post bottom, with bottom of posts set not less than 36 inches below finish grade surface.

B. Setting Posts: Center and align posts in holes at correct height, 3 inches above bottom of excavation unless otherwise indicated.

1. Place concrete around posts and vibrate or tamp for consolidation.
2. Check each post for vertical top alignment, and hold in position during placement and finishing operations. Protect portion of posts above ground from concrete splatter.
3. Unless otherwise indicated, extend concrete footings 2 inches above grade and trowel to a crown to shed water.

C. Install fencing plumb, level, true to line and location, and secure.

D. Gates: Install gates plumb, level, and secure for full opening without interference. Adjust hardware for smooth operation and lubricate where necessary.

3.2 COATING REPAIR

A. In general, field repairs to damaged coating will not be allowed. In most cases, the part is to be returned to the shop for coating as specified. From time to time for the convenience of the Board and at the direction of the Board Authorized Representative, field repairs of the coating may be allowed. The area to be painted shall be cleaned of all debris and dirt; care shall be taken to avoid damaging the good, factory applied coating. Prime the repair area with a high quality epoxy primer such as Sherwin-Williams Dura Pox B70-710. Finish with two coats of a compatible urethane finish such as Sherwin-Williams Centurion B65-700 (color to match original finish).

3.3 PROHIBITED PROCESS

A. Do not cut or weld any portion of the fencing system after the factory coating has been applied.

END OF SECTION

ORDER OF MAGNITUDE SCOPE AND ESTIMATE

School Name:	**Esmond Elementary School**	**Original OM Issued:**	**CIP BUDGET =**
School Address:	**1865 W Montvale Ave., Chicago, IL 60643**	**Revision No.:**	**TOTAL BASE SCOPE =** **$0**
Project Number:		**Revision Issued:**	**TOTAL ADD'L SCOPE =** **#DIV/0!**
DM:		**CPS Sign-Off:**	**TOTAL BASE + ADD'L SCOPE =** **#DIV/0!**
Anticipated Construction Schedule:	**Start:** / **End:**	**EAC / ERC = #DIV/0!**	**CIP Multiplier =** **1.43**

Location: Building	Floor	Room Location	Discipline	Topic Number	Detailed Scope (updated 07/05/16):	Quantity	Unit	Unit Rate	Base Scope Components: Tier 1 Basic Scope Required for Project Intent	Tier 2 Secondary Scope Based on Project Intent	Tier 3 Recommended Scope to Supplement Project Intent	Permit Required Scope: Permit Required Accessibility Scope (ADA/MOPD)	Permit Required Landscaping Scope (PPRL)	Permit required Life Safety Scope:	Construction Topic Subtotal (incl. Markups)	CIP Topic Subtotal
					Exterior Work											**#DIV/0!**
					Comment: Place areas containing a **Primary Function Area** at the end of section											
					Topic #1 - Exterior Façade - 1891 Main Building Comment: Typically Place all work within the topic area. Identify discipline in left column.										#DIV/0!	#DIV/0!
					See if Accessibility Standard Phrases apply (example) Path of Travel improvement: The accessible parking serves the xxxx PFA											
					Locally remove masonry at brick window head to expose lintel. At lintels with more than 25% section loss, replace existing lintel with new galvanized steel lintel. Rebuild masonry with stainless steel ties to backup structure. Provide new flashing, termination bar, drip edge, end dams and cell vent weeps.	5	LF									
					Locally demolish and rebuild displaced, spalled and through-brick cracked masonry two wythes at facade. Rebuild with new brick to match existing and stainless steel ties to backup structure.	150	SF									
					Locally patch spalled stone. Rout and epoxy repair cracked stone.	40	SF									
					At displaced stone elements: Remove and reset stone element with stainless steel anchors to the backup.		SF									
					Locally patch spalled terra cotta. Locally epoxy inject cracked terra cotta coping. Provide engineered coating to match existing terra cotta finish (provide for minimum 3 color coating color match).	1	SF									
					Grind and tuck point 100% of brick masonry at building façade. Wash masonry after tuck point work is complete.	9,000	SF									
					Grind and tuck point 100% of stone at building façade. Wash masonry after tuck point work is complete.	400	SF									
					Grind and tuck point 100% of terra cotta at building façade. Provide full head joints raked back and sealant and backer rod at skyward facing joints. Wash masonry after tuck point is complete.	1,600	SF									
					At masonry infill not toothed in with abandoned lintel: Demolish masonry and abandoned face-wythe lintel at previously infilled openings. Rebuild with CMU and face brick toothed into and laid flush with adjacent masonry with stainless steel masonry ties to backup.	200	SF									
					Locally demolish deteriorated wood siding. Provide new prefinished metal siding.	450	SF									
					Topic #2 - Exterior Façade - 1937 Addition Comment: Typically Place all work within the topic area. Identify discipline in left column.										#DIV/0!	#DIV/0!
					See if Accessibility Standard Phrases apply (example) Path of Travel improvement: The accessible parking serves the xxxx PFA											
					Remove and salvage hung stone at window head. Demo bricks above stone to expose lintel. Remove existing angle and provide galvanized steel angle lintel at lower elevation to provide bottom bearing for window head. Provide galvanized steel strap plates to backup steel. Provide new flashing, termination bar, drip edge, end dams and cell vent weeps at lintel. Repair, provide new, or reinstall existing stone head per scope below and rebuild brick with stainless steel ties to backup structure.	175	LF									
					Provide patch and/or epoxy repair at stone window heads and reinstall per scope above (provides for 20% of stone window heads).	35	LF									
					Provide new stone to match existing section and profile and provide and reinstall per scope above (provides for 20% of stone window heads).	35	LF									
					Locally remove masonry at brick window head to expose lintel. Scrape, prime and paint lintel. Rebuild masonry with stainless steel ties to backup structure. Provide new flashing, termination bar, drip edge, end dams and cell vent weeps.	120	LF									
					Locally remove masonry at brick window head to expose lintel. At lintels with more than 25% section loss, replace existing lintel with new galvanized steel lintel (provides for 20% of brick window heads). Rebuild masonry with stainless steel ties to backup structure. Provide new flashing, termination bar, drip edge, end dams and cell vent weeps.	30	LF									
					At lintels to be repaired/replaced, where exterior wythe of brick at window head is demolished per separate lintel line items: Demolish 3 courses of brick at interior wythe of masonry above backup steel. Scrape, prime and paint backup steel beam full height (approx. 9" tall) and length, including end connections. Rebuild masonry with stainless steel ties to backup structure.	325	LF									
					Locally demolish and rebuild displaced, spalled and through-brick cracked masonry two wythes at facade. Rebuild with new brick to match existing and stainless steel ties to backup structure.	200	SF									
					Locally patch spalled stone. Rout and epoxy repair cracked stone.	330	SF									
					Grind and tuck point 100% of brick masonry at building façade. Wash masonry after tuck point work is complete.	9,000	SF									
					Grind and tuck point 100% of stone at building façade. Wash masonry after tuck point work is complete.	2,300	SF									
					At masonry infill not toothed in with abandoned lintel: Demolish masonry and abandoned face-wythe lintel at previously infilled openings. Rebuild with CMU and face brick toothed into and laid flush with adjacent masonry with stainless steel masonry ties to backup.	300	SF									
					Locally demolish all loose concrete. Scrape, prime and paint all exposed reinforcement with anti-corrosion bonding agent. Provide additional reinforcement as required. Patch spalled concrete according to patch material manufacturer's repair instructions. Rout and epoxy repair concrete cracks.	30	SF									
					Topic #3 - Roof Masonry - 1891 Main Building Comment: No roof/parapet masonry. No scope provided.										#DIV/0!	#DIV/0!
					See if Accessibility Standard Phrases apply (example) Path of Travel improvement: The accessible parking serves the xxxx PFA											
					Topic #4 - Roof Masonry - 1937 Addition Comment: This scope presumes 100% re-roof. Arch DM to include re-roof scope. If 100% re-roof is not to be included in scope, additional flashing, gutter, roof drain and scupper repairs will need to be performed.										#DIV/0!	#DIV/0!
					See if Accessibility Standard Phrases apply (example) Path of Travel improvement: The accessible parking serves the xxxx PFA											
					Remove and reset existing stone coping on a full bed of mortar with continuous stainless steel through-wall flashing. Provide full head joints raked back and provide sealant. Provide two stainless steel pins per coping.	400	LF									
					Locally patch spalled stone coping. Rout and epoxy inject cracked stone coping. Provides for 10% repair of coping. Remove, repair and reset repaired stone coping on a full bed of mortar with continuous stainless steel through-wall flashing. Provide full head joints raked back and provide sealant. Provide two stainless steel pins per coping.	50	LF									
					Replace unsalvageable stone coping with new stone coping to match existing size and profile. Provides for 10% replacement of coping. Set new stone coping on a full bed of mortar with continuous stainless steel through-wall flashing. Provide full head joints raked back and provide sealant. Provide two stainless steel pins per coping.	50	LF									
					Demolish parapet all wythes to roof line. Rebuild parapet to match existing or minimum required flashing height (3 wythes, average demo = 1'-0", average rebuild = 1'-6"). Provide engineered control joints and vertical reinforcement.	170	LF									
					Grind and tuck-point 100% of masonry to remain at roof side of parapets. Clean masonry after tuck-point work is complete. (Uses 2'-0" parapet height)	660	SF									
					Locally demolish and rebuild displaced, spalled and through-brick cracked masonry two wythes at parapet. Rebuild with new brick to match existing and stainless steel ties to backup structure.	20	SF									
					Remove all parapet mounted lights. Provide CPS standard roof mounted lights.	4	EA									
					Remove all parapet mounted conduit. Reroute conduit in attic space.	165	LF									
					Topic #5 - Chimney Stack - 1891 Main Building Comment: Typically Place all work within the topic area. Identify discipline in left column.										#DIV/0!	#DIV/0!
					See if Accessibility Standard Phrases apply (example) Path of Travel improvement: The accessible parking serves the xxxx PFA											
					Locally demolish and rebuild displaced, spalled and through-brick cracked masonry two wythes at chimney stack. Rebuild with new brick to match existing and stainless steel ties to backup structure.	50	SF									
					Locally grind and tuck point brick masonry at chimney stack. Wash masonry after tuck point work is complete.	1,000	SF									
					Topic #8 - Concrete Stairs at Door A1 Comment: Demolish 6 existing stone treads, interior masonry support walls, cheek walls and foundations. Provide new reinforced concrete stair with new foundation walls, cheek walls, area of rescue assistance and handrails.										#DIV/0!	#DIV/0!
					See if Accessibility Standard Phrases apply (example) Path of Travel improvement: The accessible parking serves the xxxx PFA											
					Demolish existing granite stairs and foundation	25	CY									
					Excavate soil for footing placement	20	CY									
					Provide structural fill for placement of footings	10	CY									

					Provide reinforced concrete strip footings at stairs and area of rescue assistance, 2' width, 1' thickness	30	LF									
					Provide reinforced concrete foundation walls for footings, 8" thickness	30	LF									
					Provide compacted fill for placement of stair and landing slabs	20	CY									
					Provide reinforced concrete stairs and landing with 5" thickness	5	CY									
					Provide concrete cheek walls at stairs, landing and area of rescue assistance	50	SF									
					Provide ADA approved handrails for stairs and landing	40	LF									
					Provide ADA detectable warning tile	30	SF									
					Provide area of rescue assistance at landing	25	SF									
					TOTAL: Base				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	
					General Construction Allowance			**2%**	$0	$0	$0	$0	$0	$0	$0	
					SUBTOTAL: Base				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	
					General Conditions/Bond/Insurance			**8%**	$0	$0	$0	$0	$0	$0	$0	
					Contractor's Fee			**4%**	$0	$0	$0	$0	$0	$0	$0	
					SUBTOTAL: (Total Construction Costs w/o Environ., Design Cont. & Construction Allow.)				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	
					Escalation Allowance			**0%**	$0	$0	$0	$0	$0	$0	$0	
					Premium Allowance			**0%**	$0	$0	$0	$0	$0	$0	$0	
					SUBTOTAL: (Total Construction Costs w/o Environ. and Design Cont.)				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	
					Design Contingency			**10%**	$0	$0	$0	$0	$0	$0	$0	
					SUBTOTAL: Scope Total Construction Costs w/o Environ.				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	
					Environmental			**5%**	$0	$0	$0	$0	$0	$0	$0	
					TOTAL CONSTRUCTION COSTS (BASE SCOPE)				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
					TOTAL: BASE AND ADDITIONAL SCOPE Project Complete											**#DIV/0!**
					ADDITIONAL SCOPE ITEMS											
					Topic #1A - Requested by XX										#DIV/0!	#DIV/0!
					Topic #2A - Recommended by XX										#DIV/0!	#DIV/0!
					SUBTOTAL: Approved Additional Scope Construction				**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**

32'-0" 0'-0" 16'-0" 32'-0" 64'-0" 1/32" = 1'-0" | 16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0" | 8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0" | 4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0" | 2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0" | 1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0" | 0'-0" 0'-6" 1'-0" 2'-0" 1-1/2" = 1'-0" | 0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0" | 0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" 6" = 1'-0"

ZONING ANALYSIS

ESMOND ELEMENTARY SCHOOL ANNEX 1865 WEST MONTVALE AVE, CHICAGO IL 60643 WARD 19, MORGAN PARK

ZONING INFORMATION	UNDERLYING ZONE	PROPOSED PROJECT	NOTES
ZONING DISTRICT (EXISTING/PROPOSED)	RS-2	NO CHANGE	PIN NO: 2519215001
RESIDENTIAL UNITS	N/A	N/A	
OFF-STREET PARKING SPACES: (17-10-0101-B(1)a) (17-10-0207)	EXISTING: ALSO SEE AUTOMOBILE PARKING BELOW (REQ'D 8'X18 W/ 22' AISLE PER 17-10-1001)	FTE = 36 SPACES REQ'D.. = 12 PROVIDED = 56	ACCESS TO OFF-STREET PARKING IS NOT RESTRICTED IN RS2 PER 17-2-0402-A. CPS REQUESTED 38 PARKING SPACES
STUDENT ENROLLMENT		390	
MAXIMUM F.A.R: (17-2-0304-A)	0.65	EXISTING FAR: 0.42 (INCLUDES EXISTING BLDG TO BE DEMOLISHED) PROPOSED: 0.32	SITE AREA: 144,794 SF LATEST SURVEY DATES: 5/23/2017 EX. BLDG TO REMAIN: 28,541 SF PROPOSED NEW ADDITION: 18,072 SF
FLOOR AREA RATIO OF PUBLIC AND CIVIC USES 17-13-1003-C	THE ZONING ADMINISTRATOR IS AUTHORIZED TO APPROVE AN ADMINISTRATIVE ADJUSTMENT TO ALLOW ANY PERMITTED PUBLIC AND CIVIC USE IN AN R DISTRICT TO EXCEED THE APPLICABLE FAR BY UP TO 10% OVER THE OTHERWISE APPLICABLE MAXIMUM	N/A	
MINIMUM LOT AREA (MLA): (17-2-0301-A)	144,794 SF EXISTING TO REMAIN	COMPLIES, NO CHANGE	SEE PLAT OF SURVEY
AUTOMOBILE PARKING: (17-10-0101-B(1)a (17-10-0207) (17-10-0601) PROHIBITED IN FRONT 20'	PARKING/LOADING STDS APPLY WHEN EXISTING NONRESIDENTIAL BLDG/USE IS EXPANDED OR ENLARGED BY 15% OR MORE (25% FOR USES IN EXCESS OF 50 YRS OLD). APPLIES TO ADDITION OF FLOOR AREA, SEATING CAPACITY, EMPLOYEES OR OTHER MEASUREMENT USED FOR OFF- STREET PARKING & LOADING REQUIREMENTS 1 PER 3 EMPLOYEES + ADDTNL DETERMINED BY DZ/LUP	EXISTING PARKING AREAS TO BE RENOVATED FOR CONFORMANCE WITH LANDSCAPE ORDINANCE AND REPAIRED AS NEEDED.	VERIFY EXISTING LOCATION SURVEY. PROJECT FTE = 36
BICYCLE PARKING: TABLE (17-10-0207)	MIN 1 PER 10 OFF-STREET PARKING SPACES REQ'D; 2'W X 6'L X 7'H EA, MAY USE UP TO (2) REQ'D PARKING SPACES PER 17-10-0302-C	PROJECT WILL PROVIDE A MINIMUM OF 5 BICYCLE SPACES TO MEET OR EXCEED CODE REQUIREMENT	
LOADING BERTHS: (17-10-1101)	0-24,999 GSF = 0 25,000-199,999 GSF = (1) 10' X 50' FOR BUILDINGS OVER 50,000 SF	(1) 10' X 50' LOADING BERTH REQUIRED	(1) 10 x 50' LOADING BERTH PROVIDED
USES: (17-2-0207)	SCHOOLS PERMITTED BY RIGHT (EXISTING)	NO CHANGE	
SETBACKS: FRONT (17-2-0305) / N: W. MONTVALE	SET BACK DISTANCE EQUAL TO AVE FRONT YD DEPTH ON NEAREST TWO LOTS ON EITHER SIDE OF THE SUBJECT LOT	N/A: PROJECTS EXISTING LENGTH OF CITY BLOCK, EXISTING SETBACK MAY BE NONCONFORMING	PROJECT AREA IS WELL WITHIN THE FRONT SETBACK AREA
SETBACKS: SIDE (17-2-0309) / E: HERMOSA	GREATER OF: 15' OR 50% BUILDING HEIGHT		PROJECT AREA IS WELL WITHIN OF SIDE SETBACK AREAS
SETBACKS: SIDE (17-2-0309) / W: HOMEWOOD	GREATER OF: 15' OR 50% BUILDING HEIGHT		PROJECT AREA IS WELL WITHIN THE SIDE SETBACK AREAS
SETBACKS: REAR (17-2-0306-C) / S: SHARED PROP LINE	LESS OF: 50' OR 30% LOT DEPTH = 50'		PROJECT AREA IS WELL WITHIN THE REAR YARD SETBACK AREA
SITE COVERAGE (IF APPLICABLE)		32,708 SF / 23% EXISTING 26,111 SF / 18% PROPOSED	DEMOLITION OF EXISTING TILT-UP PROVIDES THE OVERALL REDUCTION IN SITE COVERAGE
HEIGHT: (17-2-03011-A)	NO MAXIMUM REQUIREMENT (PRINCIPAL NON-RESIDENTIAL BUILDING)	BUILDING HEIGHT PROPOSED: 35'-0" (TOP OF COPING)	
OPEN SPACE: (17-2-0307)	GREATER OF 4,000SF/DU OR 6.5 LOT AREA	EXISTING: 0% OPEN SPACE PROPOSED: 28% OPEN SPACE	
GREEN ROOF / FEATURES	GREEN ROOF REQUIRED	WHITE REFLECTIVE ROOF PROPOSED	
TOTAL PROJECT COSTS		EST. $6.2M	
REASON FOR PD (MANDATORY, ELECTIVE)	17-8-0506; SITE EXCEEDS 2 ACRES REQUIRING PD SUBJECT TO ZONING ADMINISTRATOR REVIEW OF EXCEPTION 17-8-0515-C(1); WHEN DETERMINED THAT MODIFICATION OF EXISTING DEVELOPMENT WILL HAVE NO ADVERSE EFFECT TO NEIGHBORHOOD, TRAFFIC, BULK, SCALE, OTHER MEASUREABLE IMPACTS.	REQUEST PD WAIVER - REQUIRED DUE TO SITE ACREAGE EXCEEDING 2 ACRES SCHEDULE REQUIRES CONSTRUCTION START 11/2017	**PD WAIVER ISSUED**
PLUMBING COUNTS	IDEAL STUDENT CAP: 390	M: 390 / 2 = 195 = 4 WC F: 390 / 2 = 195 = 4 WC	EXISTING CAPACITY: M: 10, F: 14
	ACTUAL SF: 46,013 SF / 50 SF PER PERSON = 932	M: 932 / 2 = 466 = 10 WC F: 932 / 2 = 466 = 10 WC	ADDITIONAL CAPACITY: M: 4, F: 4 + 1 UNISEX

CITY OF CHICAGO DEPARTMENT OF BUILDINGS

GENERAL BUILDING REQUIREMENTS Per Chicago Zoning Ordinance (CZO) and Chicago Building Code (CBC)

ITEM	ISSUE	CHAPTER/ ARTICLE	ORDINANCE REQUIREMENT	ACTUAL (ANNEX)	REQUIRE-MENT	LOCATION DRAWING NO.	AGENCY TEST NO.	REMARKS
ZONING REQUIREMENTS								
1.01	ZONING DISTRICT	CZO TITLE 17		RS-2		G1.1	SEE SPEC'S FOR TEST NO'S	
	a) USE OF PROPERTY	CZO TITLE 17		SCHOOL	X	A5.1		
1.02	LANDMARK BUILDING / LANDMARK DISTRICT			N/A	X			
1.03	LAKEFRONT PROTECTION DISTRICT			N/A	X			
1.04	ZONING OVERLAY				X	G1.1		
1.05	PEDESTRIAN STREET			NEW DELIVERY	X	A5.1		
1.06	LOT AREA	17-2-0300	> 5000 S.F..	144,794 S.F.	X	C2.0		
1.07	MAXIMUM FLOOR AREA RATIO	17-2-0304	0.65	0.36	X	G1.1		
1.08	TOTAL BUILDING AREA	7.6-2	94,116 SF MAX.	19,609 S.F..	X	G1.1		
1.09	BUILDING HEIGHT - NO. OF FLOORS	5(13-48-30)	MAX.HEIGHT = NONE FOR SCHOOLS		X	G1.1		CHICAGO CCD 43.069 (EXISTING TO REMAIN)
1.10	SETBACKS	17-2-0305-A			X			
	a) MINIMUM FRONT SETBACK	17-2-0305-C	FY= 20' OR 18% LOT DEPTH		X	G1.1		FY=FRONT YARD.
	a) MINIMUM SIDE SETBACK	17-2-0309-A	SY=50% OF BUILDING HEIGHT OR 12'.		X	G1.1		SY=SIDE YARD.
	a) MINIMUM REAR SETBACK	17-2-0306-C	RY=50' OR 30% LOT DEPTH		X	G1.1		RY=REAR YARD
1.11	REAR YARD OPEN SPACE	N/A			X			
1.12	NUMBER OF DWELLING UNITS	7.11-1	1#10'x50'	N/A	X			
1.13	OFF STREET PARKING	5.8-1	1 PER 3 EMPLOYEES = 12	56 PROVIDED	X	G1.1		
1.14	OFF STREET LOADING		1#10'x50'	I-PROVIDED	X	G1.1		
1.15	LANDSCAPING	7.12 (B) c. (iii)	CLO	PER CLO	X	L1.0		CHICAGO LANDSCAPE ORDINANCE (CLO)
1.16	TOWNHOUSE ORDINACE	N/A	N/A	N/A	X			
1.17	OPEN SPACE IMPACT FEE WORKSHEET IF APPLICABLE		6.5 OF LOT AREA	28%	X	A5.1		
1.18	PLAT OF SURVEY				X	VPO 1.1		SEE ATTACHED
BUILDING REQUIREMENTS								
2.01	OCCUPANCY CLASSIFICATION(S)	3 (13-56)	C-3 - SCHOOLS	C-3 - SCHOOLS	X	G1.1		
2.02	HEIGHT AND AREA LIMITATIONS	5 (13-48)	4 STORIES / 55 FT - 60,813 S.F.. AREA	2 STORIES / 35 FT (TOP OF COPING) 46,013 - AREA	X	A3.1/ A1.1		
	a.) EXCEPTIONS TO AREA LIMITATIONS	5 (13-48-090)	N/A	N/A				
	b.) MIXED OCCUPANCY BUILDINGS	5 (13-48-100)	N/A	N/A				
2.03	TYPES OF CONSTRUCTION	6 (13-60)	1C	1C	X	A1.1		
2.04	MIXED OCCUPANCY SEPARATIONS	3 (13-56-280)	N/A	N/A				
2.05	REQ. HRS. OF FIRE RESISTANCE	6 (13-60-100)	1	1	X			
	EXTERIOR BEARING WALLS	TABLE 6 (13-60-100)	2	2	X	A6.1		
	EXTERIOR - NONBEARING WALLS	TABLE 6 (13-60-100)	1 (SEE "REMARKS" FOR EXCEPTIONS)	3 (COURT); 2	X	A6.1		FOR STREET FACING EXT. WALL 1 HR F.R. IS ACCEPTABLE FOR 1-C CONSTRUCTION
	INTERIOR BEARING WALLS	TABLE 6 (13-60-100)	2	2	X	A6.1		FOR 1-C CONSTRUCTION
	INTERIOR - NONBEARING WALLS	TABLE 6 (13-60-100)	2 (ELEV) ; 1 (CORRIDORS)	2 (ELEV) ; 1 (CORRIDORS)	X	A6.1		
	COLUMNS	TABLE 6 (13-60-100)	2	2	X	A1.3,2		
	COLUMNS SUPPORTING ROOFS ONLY	TABLE 6 (13-60-100)	N/A	N/A	X	A1.3,2		
	BEAMS	TABLE 6 (13-60-100)	1	1	X	A1.3,2		
	BEAMS SUPPORTING ROOFS ONLY	TABLE 6 (13-60-100)	N/A	N/A	X	A1.4.1		
	FLOOR CONSTRUCTION	TABLE 6 (13-60-100)	1	1	X	A5.1		
	ROOF CONSTRUCTION	TABLE 6 (13-60-100)	1	1	X	A1.4.1		
2.06	ELEVATOR FRAMING	6 (13-60-130)	0	N/A	X			
2.07	MEZZANINE FLOORS	6 (13-60-160)	N/A	N/A	X			
2.08	BASEMENT CONSTRUCTION	6 (13-60-170)	N/A	N/A	X			
2.09	DRIVEWAYS AND LOADING SPACES	6 (13-60-210)	N/A	N/A	X			
2.10	FIRE - RESISTIVE REQUIREMENTS	7 (15-8)			X			
	a.) FIRE WALLS - CONSTRUCTION	7 (15-8-010)	4 (SEE "REMARKS")	4 (SEE "REMARKS")	X	A1.3,2		FOR WALLS LESS THAN 14' UNSUPPORTED HEIGHT
	b.) PARAPETS	7 (15-8-100)	N/A	N/A	X			
	c.) STAIRWAY ENCLOSURES	7 (15-8-140)	2	2	X	A1.3 / A1.6		
	d.) ELEVATOR ENCLOSURES	7 (15-8-150)	2	2	X	A1.7		
	e.) ENCLOSURES OF HEATING ROOMS	7 (15-8-190)	2	2	X	A1.1		EOR TO VERIFY BOILER PSI
	f.) ENCLOSURES OF PIPE SHAFTS AND DUCTS	7 (15-8-160)	1	1 ASA, ASTM, NBFU, NBS, NFPA, UL	X			
	g.) OTHER ENCLOSURES	7 (15-8-240)	1 (CORRIDORS)	1 (CORRIDORS)	X	A1.1		
	h.) INTERIOR WALL AND CLG. FINISHES	7 (15-8-380)	CLASS 1	CLASS 1	X	A14.1		
	i.) STORAGE ROOMS OVER 100 SQ.FT.	7 (15-8-240)(b)	2	2	X	A1.1 / A1.2		
2.11	FIRE - RESISTIVE MATERIALS AND CONSTRUCTION	7 (15-12)			X			
2.12	ACCEPTED ENGINEERING PRACTICE	7 (15-12-050)	ASA, ASTM, NBFU, NBS, NFPA, UL	ASA, ASTM, NBFU, NBS, NFPA, UL	<			
2.13	FIRE PROTECTION EQUIPMENT	9 (15-16)			X			
	a.) SPRINKLER SYSTEMS	9 (15-16-010)	EXISTING	PROVIDED NEW	X	FPO.1		
	b.) SPECIAL REQUIREMENTS	9 (15-16-030)	N/A	N/A	X			
EXIT REQUIREMENTS								
3.01	TYPES OF EXITS	10 (13-160-040)	HORIZONTAL, VERTICAL (STAIRS)	HORIZONTAL, VERTICAL (STAIRS)	X			
3.02	MINIMUM NUMBER OF EXITS	10 (13-160-050)	SEE "REMARKS"	SEE "REMARKS"	X	G2.1		SEE DRAWING SHEET G2.1
3.03	TRAVEL DISTANCE TO EXITS	10 (13-160-110)	150'-0"	150'-0"	X	G2.1		SEE DRAWING SHEET G2.1
	a.) INCREASED PERMITTED	10 (13-160-150)	NOT PERMITTED	NOT PERMITTED	X	G2.1		
	b.) DEAD END CORRIDOR	10 (13-160-160)	20 FT	20 FT	X	G2.1		
3.04	CAPACITY OF EXITS	10 (13-160-210)	SEE "REMARKS"	SEE "REMARKS"	X	G2.1		SEE DRAWING SHEET G2.1
3.05	MINIMUM WIDTH OF EXITS	10 (13-160-220)	SEE "REMARKS"	SEE "REMARKS"	X	G2.1		SEE DRAWING SHEET G2.1
3.06	SWING OF EXIT DOORS	10 (13-160-250)	SEE "REMARKS"	SEE "REMARKS"	X	G2.1		SEE DRAWING SHEET G2.1
3.07	HARDWARE	10 (13-160-260)	PANIC HARDWARE	PANIC HARDWARE	X	A10.1		SEE DOOR SCHEDULE SHEET
3.08	REVOLVING DOORS	10 (13-160-270)	N/A	N/A				
3.09	LANDINGS	10 (13-160-310)	9' BETWEEN FLIGHTS, LANDINGS	9' BETWEEN FLIGHTS. LANDINGS	X	A1.6		
3.10	HANDRAILS	10 (13-160-320)	WALL MTD. RETURN TO WALL	WALL MTD. RETURN TO WALL	X	A1.6		
3.11	CONSTRUCTION	10 (13-160-330)	STAIRS, NON COMBUSTIBLE	STAIRS, NON COMBUSTIBLE	X	A1.6		
3.12	ENCLOSURES	7 (15-8-140)	RATED DOOR OPENINGS	RATED DOOR OPENINGS	X	A10.1		
3.13	HEAD ROOM	10 (13-160-350)	7'-0" MIN	7'-0" MIN	X	A1.6		

ITEM	DESCRIPTION	CODE	SECTION	ORDINANCE REQUIREMENT	ACTUAL	REQUIREMT N/A	LOCATION/ SHEET NO.	AGENCY/ TEST NO.	REMARKS
ACCESSIBILITY									
		ILLINOIS ACCESSIBILITY CODE (IAC) - PUBLIC FACILITIES NEW CONSTRUCTION	400.310		X		A5.2 TO A5.12		
		IAC	400.320		X		A5.2 TO A5.12		
		IAC - MULTI STORY HOUSING, NEW CONSTRUCTION				X			
		IAC PUBLIC FACILITIES, ADDITIONS	400.410		X		A1.7		INSTALLATION OF NEW ELEVATOR WILL ALLOW BOTH BUILDINGS EXISTING AND NEW TO COMPLY WITH IAC AND ADA TITLE II
		IAC PUBLIC FACILITIES, ALTERATIONS	400.510			X			
		IAC HISTORIC PRESERVATION	400.610			X			
		IAC ALTERNATIVE REQUIREMENTS FOR HISTORIC PRESERVATION	400.620			X			
		IAC STANDARDS FOR GOVERNMENT LEASING, RENTING, OR USE OF PUBLIC FACILITIES	400.710			X			
		FHAA SEVEN GUIDELINES				X			
		REHABILITATION ACT OF 1973 (AFAS SEC. 4.34)				X			
		ADA TITLE II (ALL PROGRAMS, SERVICES AND ACTIVITIES TO BE MADE ACCESSIBLE TO AND USABLE BY PEOPLE WITH DISABILITIES)			X		A1.7		INSTALLATION OF NEW ELEVATOR WILL ALLOW BOTH BUILDINGS EXISTING AND NEW TO COMPLY WITH IAC AND ADA TITLE II
		GOVERNMENT FUNDED PROJECTS TO SCHEDULE A MEETING WITH MOPD AT (312) 733-4441				X			

ZONING INFORMATION PROVIDED BASED UPON HISTORIC DRAWINGS AND SURVEY DRAWINGS PREPARED BY V3 COMPANIES DATED 5/23/2017. PBC HAS ORDERED NEW SURVEY, ALL DIMENSIONS, AREAS, TOPOGRAPHY, ETC. SHALL BE CONFIRMED WITH FORTHCOMING SURVEY.

GROSS SITE AREA: 144,794 SF
NET SITE AREA: 118,683 SF
EXISTING BUILDING SQUARE FOOTAGE: 60,845 SF (INCLUDING TILT-UP TO BE DEMOLISHED)
PROPOSED TOTAL SQUARE FOOTAGE: 46,337 SF (TOTAL MINUS TILT-UPBUILDINGTHAT WILL BE DEMOLISHED)

PROPOSED ANNEX SQUARE FOOTAGE: 18,217 SF

PROPOSED BUILDING HEIGHT: 35'-0" (TOP OF COPING)
GRADE PLANE: 43.069' CCD
PROPOSED PARKING: 38 SPACES REQUESTED, 56 PROVIDED
DRIVEWAYS: WE ARE UPGRADING TWO EXISTING DRIVE WAYS BOTH 22' WIDE, I-EXISTING DRIVE WAY AT 23' WIDE, AND I-EXISTING AT 23' WIDE
EXISTING STUDENTS: 317
IDEAL STUDENTS: 360

ZONING RELIEF SOUGHT:
1. PD WAIVER

LOADING DOCK SPACES AND DIMENSIONS: 1
NUMBER OF BIKE RACKS - 5 MIN
GREEN ROOF PERCENTAGE - 0%

FRONT YARD
ZONING REQUIRED SETBACK = AVERAGE 4 ADJACENT MINUS LEAST = 23'-7"
PROPOSED SETBACK = 94'-9"

REAR YARD
ZONING REQUIRED SETBACK= 30% LOT DEPTH OR 50', WHICHEVER LESS
LOT DEPTH = 412'-0"
REQUIRED SETBACK = 50'
PROPOSED SETBACK = 178'-0"

SIDE YARD
ZONING REQUIRED SETBACK = 15' OR 50% OF BUILDING HEIGHT
PROPOSED BUILDING HEIGHT = 35'-0"
REQUIRED SETBACK = 17'-6"
PROPOSED SETBACK = 110'-6"

BUILDING INFORMATION

BUILDING CLASSIFICATION

TYPE OF PROJECT	ELEMENTARY SCHOOL ANNEX - ESMOND	PER FLOOR	TOTAL
OCCUPANCY CLASSIFICATION	C-3 SCHOOL		
CONSTRUCTION TYPE	1-C		
BUILDING HEIGHT	35'-0" ABOVE GRADE PLANE		
	T/ COPING 35'-0"		
BUILDING AREA	NEW ANNEX FIRST FLOOR	10,548 SF	
	NEW ANNEX SECOND FLOOR	9,061 SF	
	NEW ANNEX TOTAL		19,609 SF
	EXISTING BUILDING FIRST FLOOR	14,755 SF	
	EXISTING BUILDING SECOND FLOOR	12,012 SF	
	EXISTING BUILDING TOTAL		26,767 SF

AREA LIMITATION FOR FIRE SEPARATION-TABLE 13-48-080
* MAXIMUM AREA FOR 2 STORY, C3 SCHOOL, I-C CONSTRUCTION TYPE= 16,000 SF PER FLOOR.
*EVERY 16,000 SF- 4 HOUR FIRE SEPARATION IS REQUIRED.

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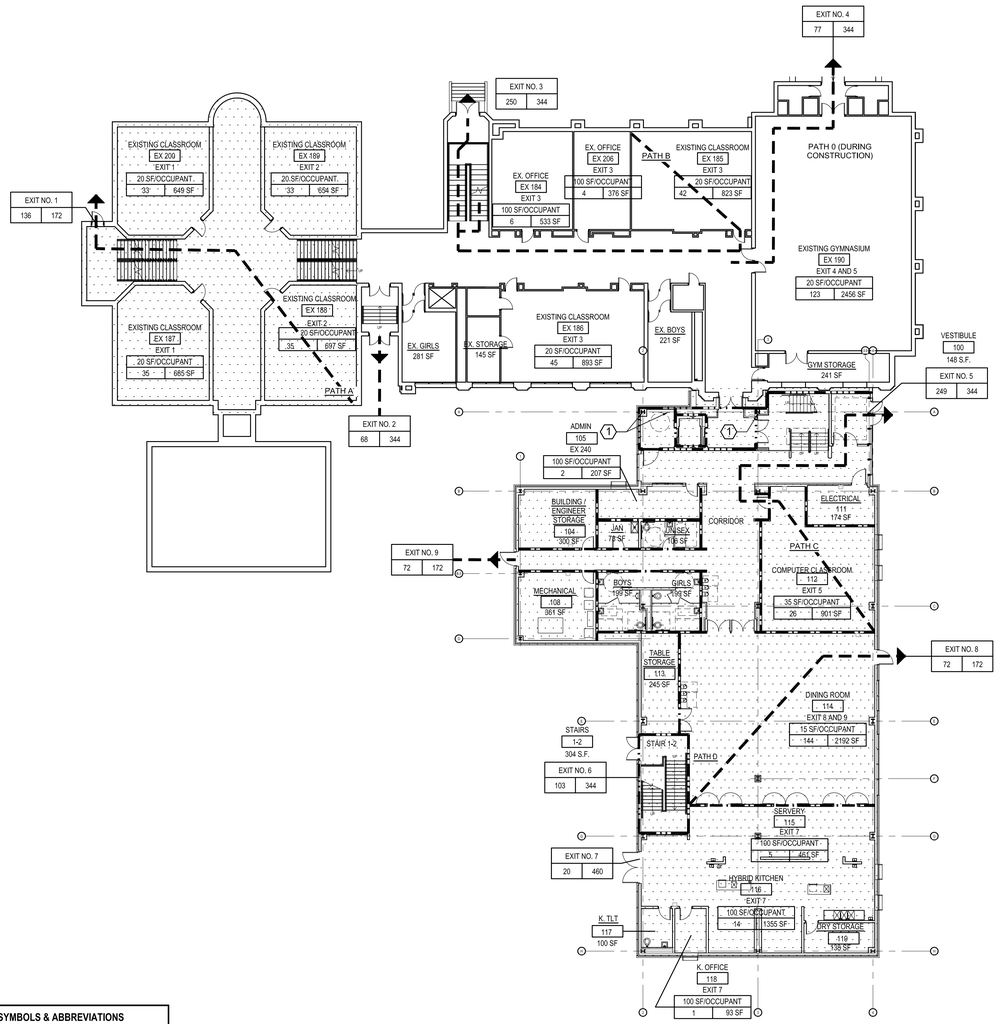
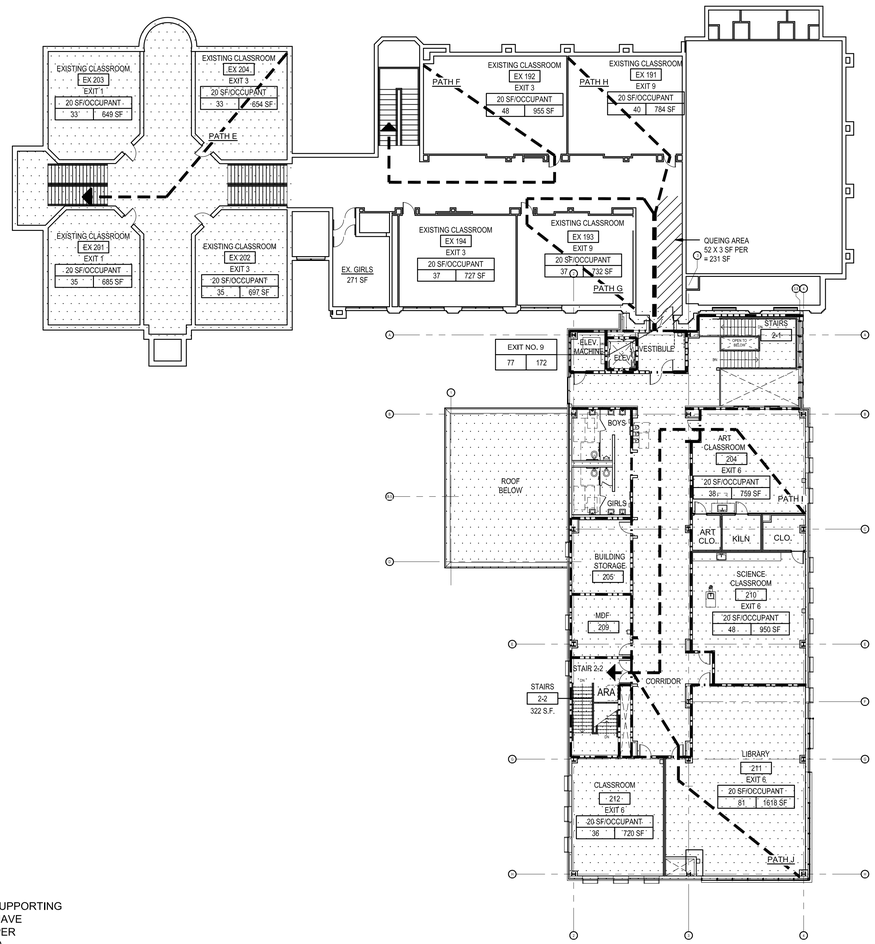


1 FIRST FLOOR EGRESS PLAN
1/16" = 1'-0"



2 SECOND FLOOR EGRESS PLAN
1/16" = 1'-0"

1 KEY NOTES:

COLUMNS & BEAM SUPPORTING
4-HOUR WALLS TO HAVE
4-HOUR RATINGAS PER
U.L. DESIGN NO.X790.

FLOORS SPPORTING 4-HOUR WALLS TO
HAVE 4-HOUR RATING AS
PER U.L. DESIGN NO. D858

SAFETY REFERENCE SYMBOLS & ABBREVIATIONS

- Room name / 101 — ROOM NAME; ROOM NUMBER
- Exit — EXIT NUMBER
- XX SF/OCCUPANT — SQUARE FEET ALLOWED PER OCCUPANT
- XX / 150 SF — ACTUAL ROOM AREA
- ALLOWED OCCUPANCY
- EXIT # — EXIT OR STAIR IDENTIFICATION NUMBER
- ACT / MAX — MAXIMUM OCCUPANT FOR EXIT/STAIR; ACTUAL OCCUPANT CAPACITY FOR EXIT/STAIR
- 250' — EGRESS LINE AND MAXIMUM DISTANCE
- 1 - HOUR FIREWALL
- 2 - HOUR FIREWALL
- 3 - HOUR FIREWALL
- 4 - HOUR FIREWALL
- FEC — FULLY RECESSED FIRE EXTINGUISHER CABINET
- FECB — FULLY RECESSED FIRE EXTINGUISHER CABINET WITH BLANKET
- FE — WALL MOUNTED FIRE EXTINGUISHER
- SPRAY FIREPROOFING - 1 HOUR
- SPRINKLED AREA
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR
- KB — KNOX BOX
- TR — TRANSFORMER FOR ELECTRICAL SERVICE
- E — EMERGENCY ELECTRICAL SHUT OFF
- W — EMERGENCY WATER SHUT OFF
- G — EMERGENCY GAS SHUT OFF

FIRE RESISTIVE RATINGS - NEW CONSTRUCTION

APPLICABLE CODE	CHICAGO ZONING ORDINANCE (CZO) AND CHICAGO BUILDING CODE (CBC)	UL NO.s & FIRE RATING
USE (FIRE AREA)	PUBLIC AND CIVIL USE GROUP	----------
AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS	YES	----------
STRUCTURAL FRAME	2-HOUR	U.L. DESIGN NO. X790 - 2 HOUR
BEARING WALLS		
EXTERIOR	2-HOUR (SEPARATION DISTANCE)	
INTERIOR	2-HOUR	U.L. DESIGN NO. U419 - 2 HOUR
NONBEARING WALLS AND PARTITIONS		
EXTERIOR	1-HOUR	
NONBEARING WALLS AND PARTITIONS		
INTERIOR	1-HOUR	
FLOOR CONSTRUCTION		
INCLUDING SUPPORTING BEAMS AND JOISTS	1-HOUR	
ROOF CONSTRUCTION		3
INCLUDING SUPPORTING BEAMS AND JOISTS		
FIRE WALLS / PARTY WALLS	4-HOUR	
CORRIDOR FIRE RESISTANCE RATING	1-HOUR	

APPLICABLE CODES - NEW CONSTRUCTION

1. HEALTH/LIFE SAFETY CODE FOR PUBLIC SCHOOLS 23 ILLINOIS ADMINISTRATION CODE 180
2. CHICAGO BUILDING CODE (CCBC) 2012
3. CHICAGO FIRE PREVENTION CODE
4. CHICAGO ELECTRICAL CODE
5. CHICAGO PLUMBING CODE
6. CHICAGO MECHANICAL CODE
7. CHICAGO ENERGY CONSERVATION CODE
8. 29 ILLINOIS ADMINISTRATIVE CODE 1500 SHALL APPLY INSTEAD OF CHAPTER 4 OF THE INTERNATIONAL FIRE CODE
9. 71 ILLINOIS ADMINISTRATIVE CODE, PART 400, ILLINOIS ACCESSIBILITY CODE 1997
10. 77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE 1998
11. 41 ILLINOIS ADMINISTRATIVE CODE, PART 120, ILLINOIS STATE FIRE MARSHALL BOILER AND PRESSURE VESSEL SAFETY.
12. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

EXIT TRAVEL DISTANCES

PATH ID	TRAVEL DISTANCE
PATH 0 (DURING CONSTRUCTION)	77'-8"
PATH A	128'-9"
PATH B	122'-0"
PATH C	116'-6"
PATH D	68'-10"
PATH E	70'-0"
PATH F	107'-2"
PATH G	106'-4"
PATH H	82'-6"
PATH I	125'-1"
PATH J	74'-8"

ROOM SCHEDULE - OCCUPANT LOADS

EXIT	NO.	NAME	AREA	SF PER OCCUPANT	OCCUPANT LOAD	
EXIT 5	110	COMPUTER CLASSROOM	901 SF	35 SF	26	EXIT 5 TOTAL = 26
EXIT 8	112	DINING ROOM	2192 SF	15 SF	144	EXIT 8 TOTAL = 144
EXIT 7	113	SERVERY	461 SF	100 SF	5	EXIT 7 TOTAL = 20
EXIT 7	114	HYBRID KITCHEN	1355 SF	100 SF	14	
EXIT 7	115	K. OFFICE	93 SF	100 SF	1	
EXIT 6	209	CLASSROOM	720 SF	20 SF	36	EXIT 6 TOTAL = 203
EXIT 6	210	LIBRARY	1618 SF	20 SF	81	
EXIT 6	211	SCIENCE CLASSROOM	950 SF	20 SF	48	
EXIT 6	214	ART CLASSROOM	759 SF	20 SF	38	
				TOTAL =	393	

MEANS OF EGRESS - NEW CONSTRUCTION

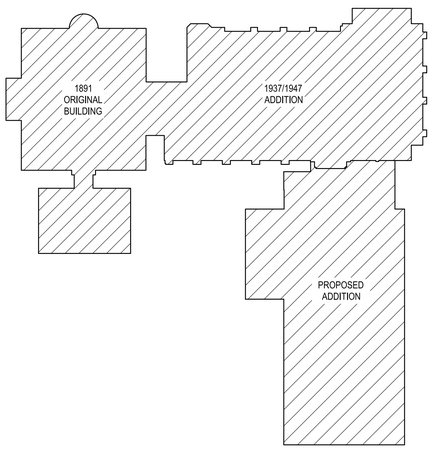
APPLICABLE CODE	(CBC)
DOOR/CORRIDOR EXIT WIDTH (22"=1 UNIT EXIT WIDTH) 1/2 EXIT WIDTH (12"=1/2 UNIT EXIT WIDTH=57 PERSONS)	115 PERSONS PER UNIT
STAIR EXIT WIDTH (22"=1 UNIT EXIT WIDTH)	100 PERSONS PER UNIT
MAX. LENGTH OF EXIT ACCESS TRAVEL	150 FEET
MAX. LENGTH OF COMMON PATH EGRESS TRAVEL	150 FEET
MAX. LENGTH OF DEAD END CORRIDORS	20 FEET
MINIMUM CORRIDOR WIDTH	60 INCHES

SAFETY REFERENCE NOTES

TOTAL OCCUPANT LOAD (SCHOOL)

TOTAL OCCUPANCY FOR 100 LEVEL - 546 OCCUPANTS
TOTAL OCCUPANCY FOR 200 LEVEL - 501 OCCUPANTS

TOTAL PLANNED STUDENT POPULATION: 390
TOTAL 2017 FTE: 36



ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

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7	ISSUED FOR BID	10.26.17
1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

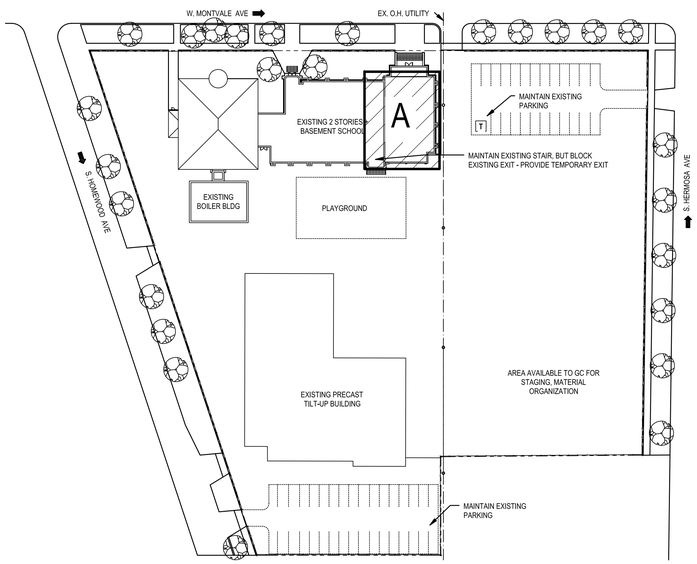
PBC Project No: 05125

ONYX Project No: 17005

Title
CODE INFORMATION & SAFETY REFERENCE PLANS

Sheet
G2.1

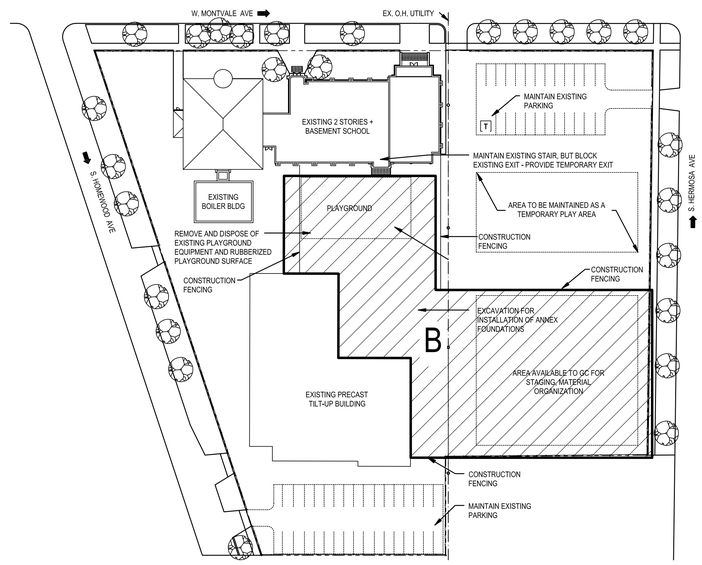
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



MILESTONE 1

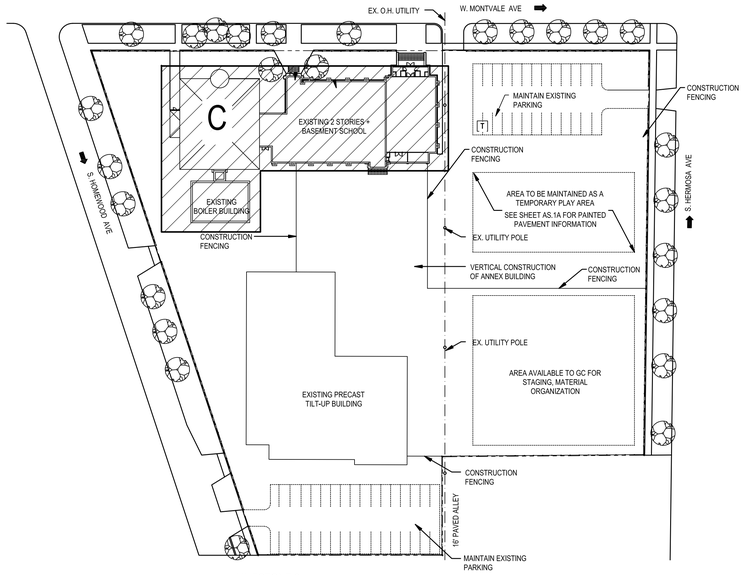
1 AREA "A" JANUARY 15, 2018 - JANUARY 31, 2018
1" = 50'-0"

- ESTABLISH TEMPORARY EXITING THROUGH GYMNASIUM
- INSTALL SIGNAGE DIRECTING EXITING THROUGH THE GYMNASIUM
- CLOSE OFF DOOR A-7



2 AREA "B" JANUARY 15, 2018 - NOVEMBER 5, 2018
1" = 50'-0"

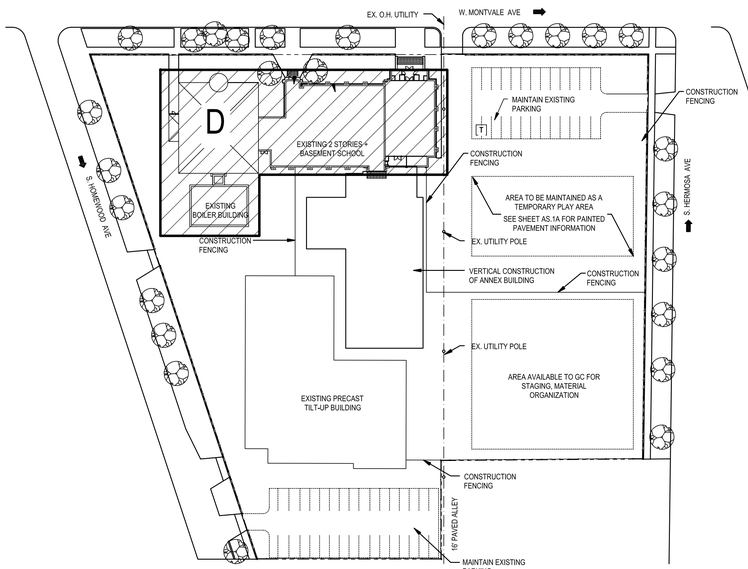
- ERRECT CONSTRUCTION FENCING WITH SIGNAGE
- VERTICAL CONSTRUCTION OF THE ANNEX



MILESTONE 2

3 AREA "C" JUNE 25, 2018 - AUGUST 17, 2018
1" = 50'-0"

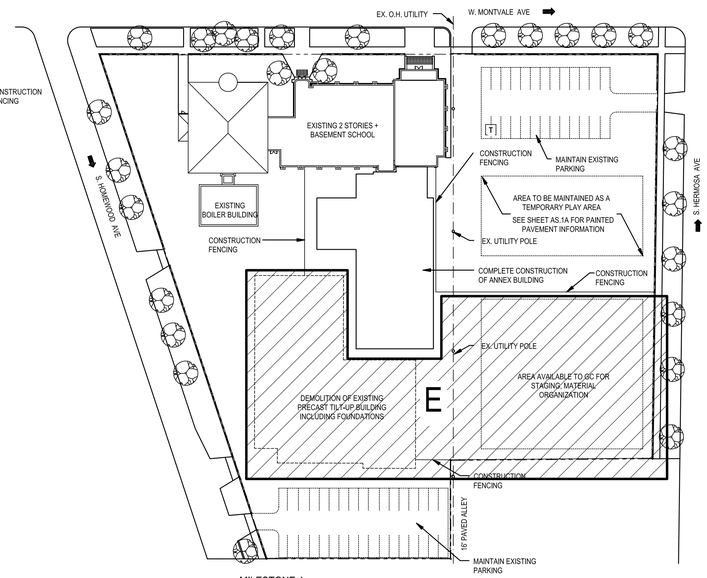
- COMPLETE ENVIRONMENTAL PENETRATIONS FOR NEW MDF, IDF AND FIRE ALARM ROUGH IN WORK
- COMPLETE NEW MDF, IDF AND NEW FIRE ALARM ROUGH IN WORK
- VERTICAL CONSTRUCTION OF ANNEX TO CONTINUE
- REPLACEMENT OF UNIT VENTILATORS



MILESTONE 3

4 AREA "D" JUNE 21, 2018 - AUGUST 26, 2019
1" = 50'-0"

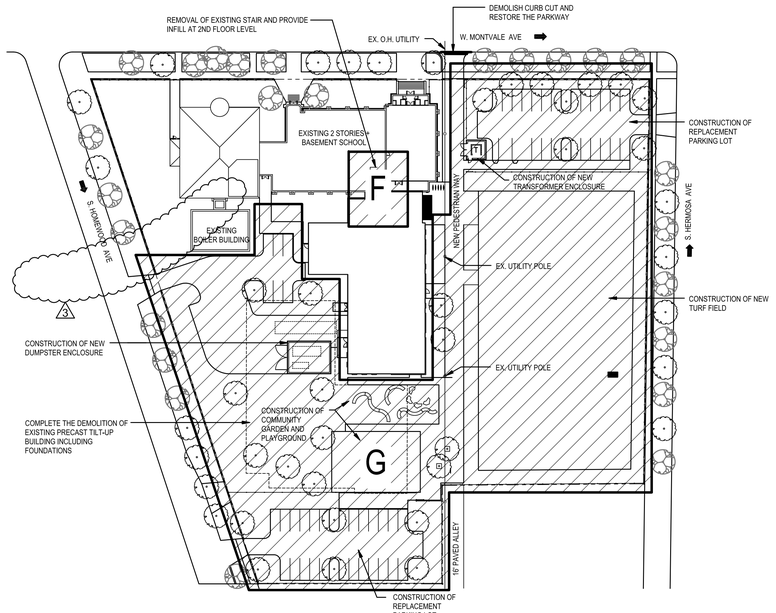
- MASONRY RESTORATION
- ROOF REPLACEMENT



MILESTONE 4

5 AREA "E" MARCH 25, 2019 - AUGUST 16, 2019
1" = 50'-0"

- DEMOLITION OF EXISTING MODULAR BUILDING



6 AREA "F+G" JUNE 21, 2019 - AUGUST 16, 2019
1" = 50'-0"

- SITE UPGRADES
- NEW COMMUNITY GARDEN WITH EXISTING PLANTERS AND BOULDER SEATING REPOSITIONED
- NEW PLAYGROUND AREA AND EQUIPMENT
- NEW PARKING LOT CONSTRUCTION WEST SIDE OF THE SITE
- NEW TRASH ENCLOSURE
- RESTORATION OF EXISTING NORTH AND SOUTH PARKING LOTS
- DEMOLITION OF EXISTING STAIRWAY AND ENTRANCE A-7
- RESTORATION OF THE DEMOLISHED AREA ESTABLISHING THE LINK BETWEEN THE TWO BUILDINGS

COORDINATION ITEMS

1. CONTRACTOR TO COORDINATE ACCESS NEEDS WITH PBC, AND CPS PROTOCOL TO PROVIDE KEY ACCESS TO CONTRACTOR FOR NECESSARY OFF-HOURS WORK. PBC TO PLACE CONTRACTORS ON CPS SAFETY AND SECURITY LIST OF APPROVED PERSONNEL TO ACCESS THE SCHOOL IN ORDER TO ARM AND DISARM THE SECURITY ALARM SYSTEM. CONTRACTOR TO PROVIDE THE PBC WITH A LIST, AS NECESSARY, A MINIMUM OF FIVE BUSINESS DAYS IN ADVANCE.

2. CONTRACTOR TO MAINTAIN PROPER EGRESS FOR SCHOOL OPERATIONS THROUGHOUT THE CONSTRUCTION SCHEDULE.

3. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY PROTECTION THROUGHOUT THE CONSTRUCTION SCHEDULE.

4. CONTRACTOR TO PROVIDE SPECIFIC SAFETY AND UTILIZATION PLAN.

5. CONTRACTOR WILL NOT PERFORM WORK ON 9/4/18 OR 9/5/18.

6. CONTRACTOR WILL NOT PERFORM INTERIOR SCOPE FROM 8/17/18 TO 8/16/19 EXCEPT FOR CONTRACTOR'S ACCESS DURING FALL BREAK, WINTER BREAK, SPRING BREAK AND WEEKENDS IN ACCORDANCE WITH THE CPS CALENDAR. CONTRACTORS WORK OVER DATES TO SCHEDULED WITH THE PBC AND THE SCHOOL PRINCIPAL AT A LATER DATE. CONTRACTOR TO PERFORM DAILY CLEAN UP WHEN PERFORMING WEEKEND WORK AND MUST LEAVE ANY INTERIOR SPACES IN THE SAME CONDITION AS FOUND. WEEKEND WORK IS CONSIDERED FRIDAY 3:30PM TO MONDAY 6:00AM.

7. ALL NOISY CONSTRUCTION TO TAKE PLACE AFTER 4:30PM DURING ACADEMIC SCHOOL HOURS. NOISY CONSTRUCTION INCLUDES, BUT IS NOT LIMITED TO, GRINDING AND SAWCUTTING.

8. NO CONTRACTOR DELIVERS, OVER HEAD WORK OR EQUIPMENT OPERATIONS FROM 7:30AM TO 8:30AM OR 2:45PM TO 3:45PM DURING ACADEMIC SCHOOL AND WILL USE APPROPRIATE SAFETY PROCEDURES WHEN OPERATING EQUIPMENT.

9. NO NOISY CONSTRUCTION TO TAKE PLACE DURING SCHOOL TESTING DATES.

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PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

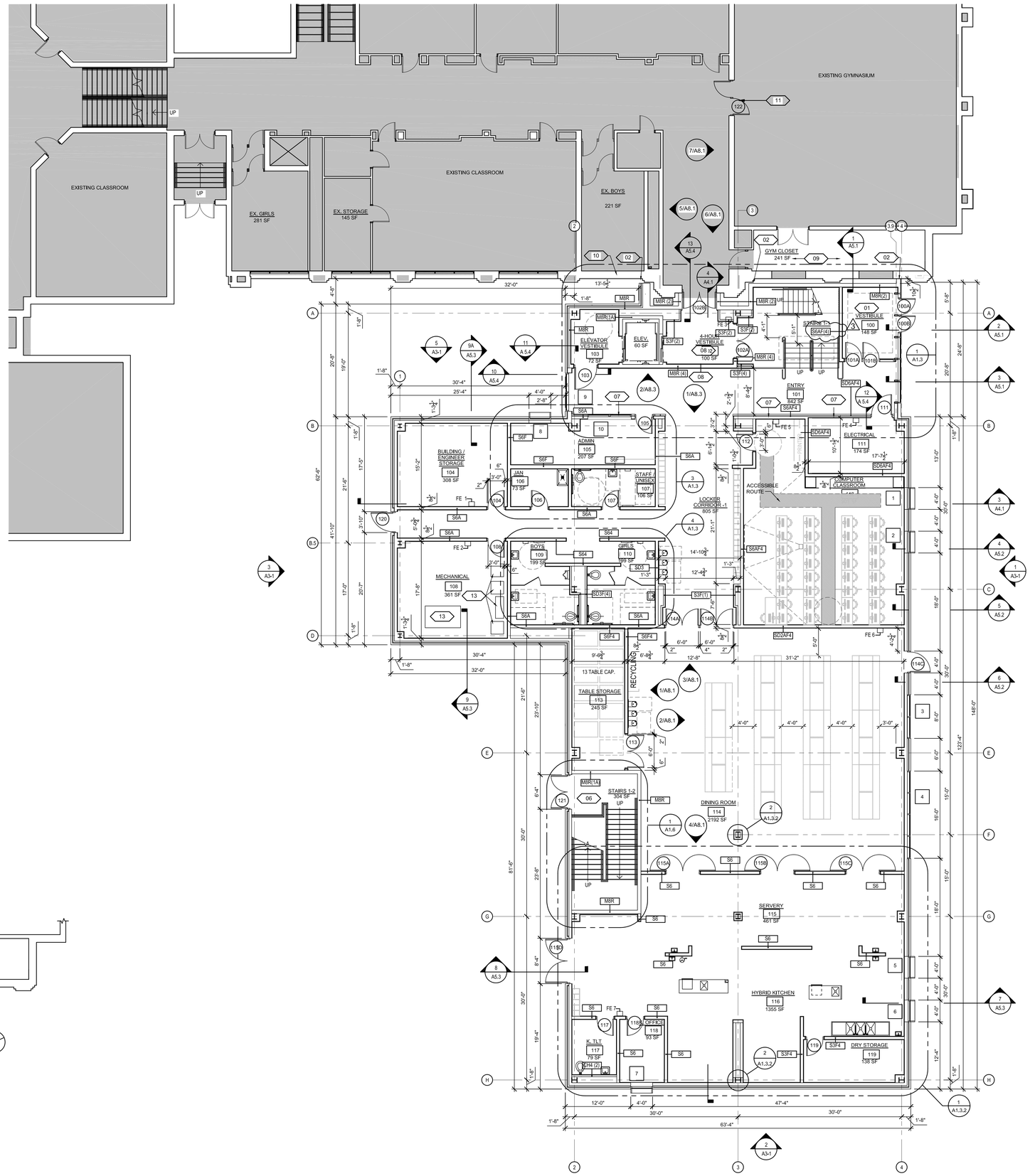
Title

PHASING PLANS

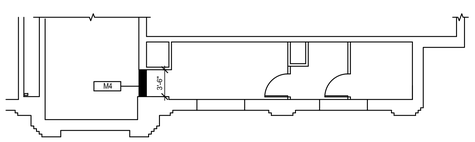
Sheet

G3.1

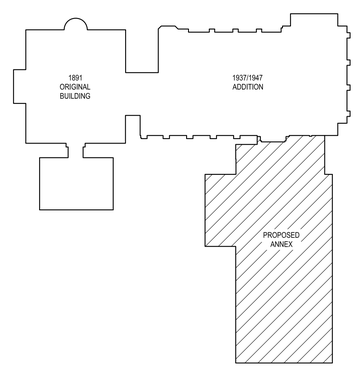
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 FIRST FLOOR PLAN
1/8" = 1'-0"



2 EXISTING INTERMEDIATE LANDING FLOOR PLAN
1/8" = 1'-0"



ARCHITECTURAL PLAN REFERENCE NOTES

NOTE	DESCRIPTION
01	1/2" DEPRESSED SLAB FOR RECESSED ENTRANCE FLOORING, SEE ENLARGED PLAN 1 AT SHEET A1.3 FOR DIMENSIONS.
02	LINE OF 1" EXPANSION - JOINT AND COVER PLATES REQUIRED
03	REMOVE EXISTING WINDOW - INFILL WITH BRICK MASONRY AND METAL STUD BACKUP
04	DEMOLISH EXISTING STAIR AND PREP FOR NEW WORK - INFILL CONCRETE SLAB AT SECOND FLOOR
05	EMERGENCY EXIT ONLY
06	STAIR ENCLOSURE COMPRISED OF 8" CMU WALLS
07	METAL STUD WALL WITH UTILITY BRICK FACE IN ENTRY/FRONT LOBBY CORRIDOR
08	4-HOUR VESTIBULE ENCLOSURE COMPRISED OF 8" CMU WALLS WITH METAL FURRING AND HIGH IMPACT GYPSUM BOARD AT ALL EXPOSED CMU SURFACES. LOBBY / ENTRY SIDE TO HAVE SOLID SURFACE MATERIAL FROM THE FLOOR TO 6'-0" ABOVE.
09	DEMOLISH INTERIOR PARTITIONS, INTERIOR DOORS, AND ASSOCIATED FINISHES TO PREPARE FOR NEW WORK
10	REMOVE EXISTING WINDOW - INFILL WITH BRICK MASONRY AND METAL STUD BACKUP
11	REMOVE EXISTING DOOR AND REPLACE WITH TEMPORARY B-LABEL DOOR; (1) 48"W LEAF SWING INTO GYM; (1)36"W LEAF SWING OUT - REFER TO TEMPORARY EGRESS PLAN FOR ADDITIONAL INFORMATION
12	2'-9" x 6'-0" FULL LENGTH ADA MIRROR WITH THE BOTTOM OF THE REFLECTIVE SURFACE MOUNTED 15" A.F.F
13	4" TH CONCRETE PAD FOR MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION.
14	ELECTRIC HAND DRYER

NOTE: TYPICAL INTERIOR PARTITIONS SHALL BE COMPOSED OF 6" METAL STUDS WITH HIGH-IMPACT GYPSUM BOARD ON BOTH SIDES, UNLESS NOTED OTHERWISE. ALL PARTITIONS WITH HIGH IMPACT GYPSUM BOARDS AT BOTH SIDES SHALL HAVE A MINIMUM OF 20 GAUGE METAL STUDS.

GENERAL NOTES

NOTE	DESCRIPTION
A	SEE SHEET A5.6 DRAWING FOR TYPICAL MOUNTING HEIGHTS AND PLAN DIAGRAMS
B	CENTER LIGHTS IN ROOM UNLESS OTHERWISE NOTED
C	SEE SHEETS A14.1 & A14.2 FOR FINISH SCHEDULE AND SHEET A6.1 FOR PARTITION TYPES
D	PROVIDE ACCESSIBLE HEIGHT LIGHT SWITCHES, CONTROLS INTERCOMS, T-STATS, OUTLETS, AND RELOCATE EXISTING AS REQUIRED. SEE MECHANICAL DWGS. SEE AS.X SERIES DWGS. FOR MTG. HEIGHTS
E	NOT ALL KEYED NOTES APPEAR ON ALL SHEETS
F	FURNITURE SHOWN DASHED IS FOR REFERNCE ONLY AND N.I.C. 5% OF ALL FURNITURE MUST BE ACCESSIBLE FOR THE DESIGNATED AGE RANGE

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PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

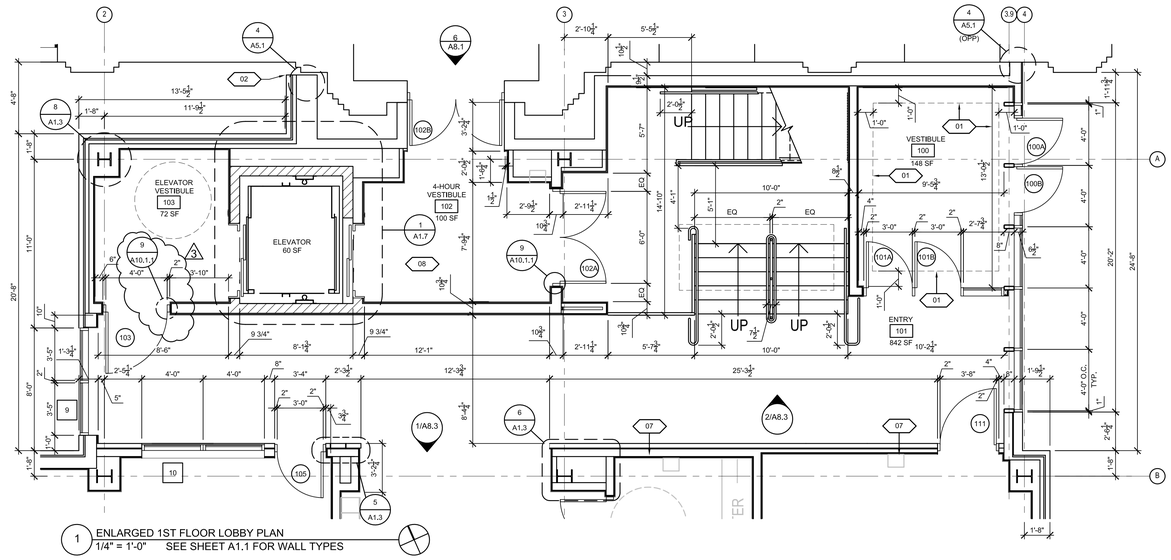
ONYX Project No: 17005

Title

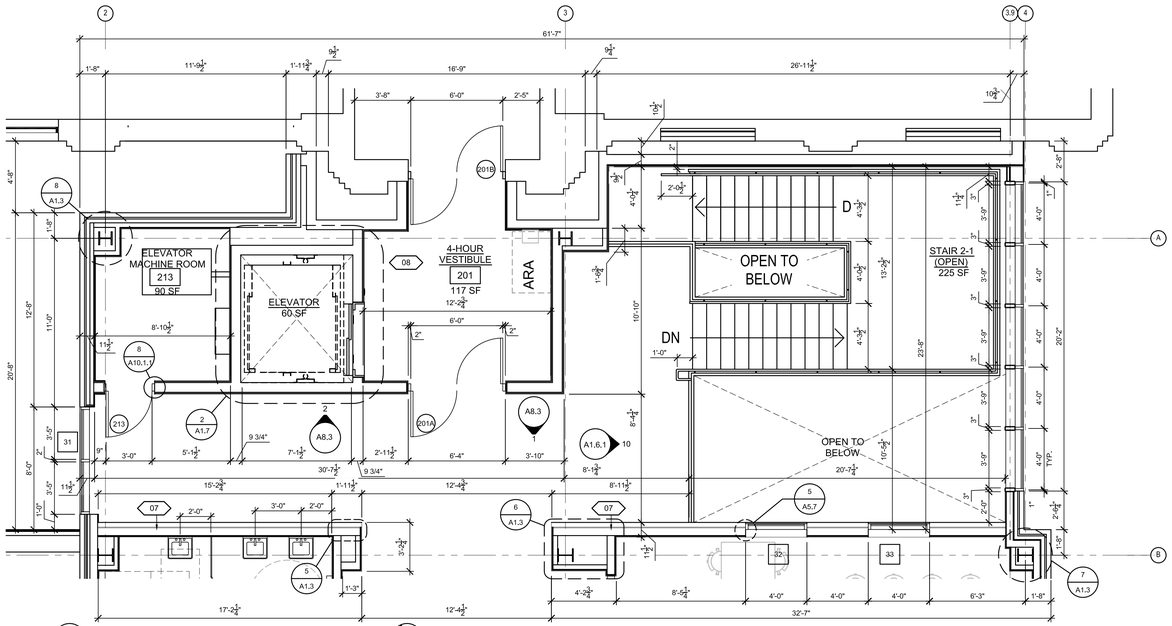
FIRST FLOOR PLAN

Sheet

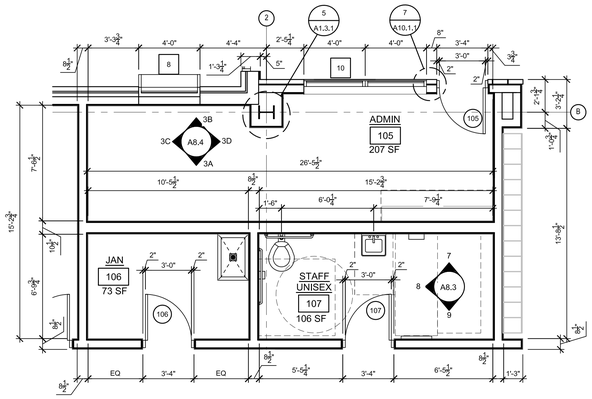
A1.1



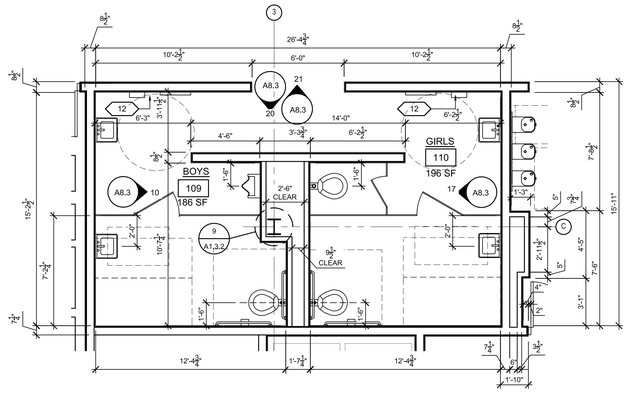
1 ENLARGED 1ST FLOOR LOBBY PLAN
1/4" = 1'-0" SEE SHEET A1.1 FOR WALL TYPES



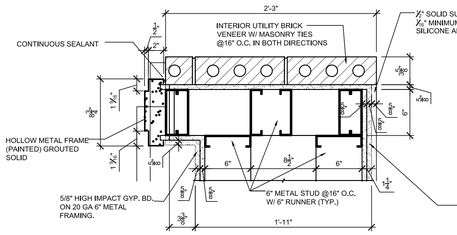
2 ENLARGED 2ND FLOOR LOBBY PLAN
1/4" = 1'-0" SEE SHEET A1.2 FOR WALL TYPES



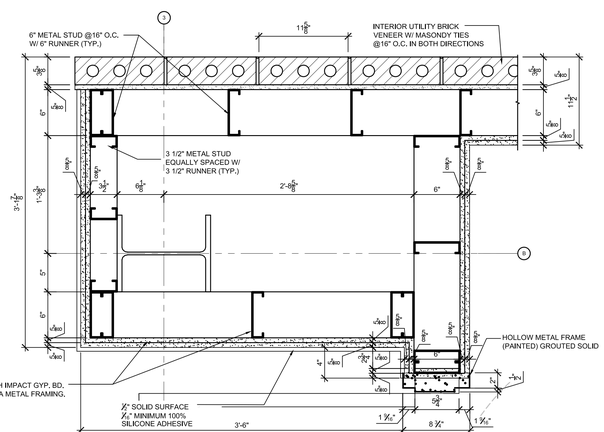
3 ENLARGED UNISEX TOILET, JAN AND ADMIN PLAN
1/4" = 1'-0" SEE SHEET A1.1 FOR WALL TYPES



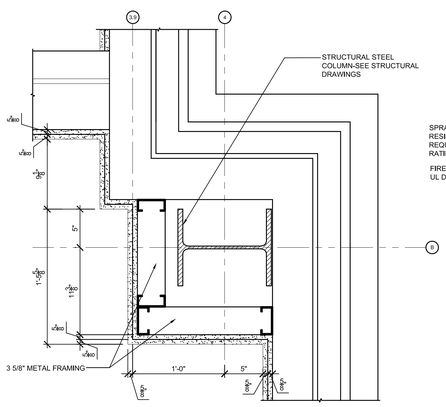
4 ENLARGED BOYS & GIRLS TOILET ROOM PLAN 1ST FLOOOR
1/4" = 1'-0" SEE SHEET A1.1 FOR WALL TYPES



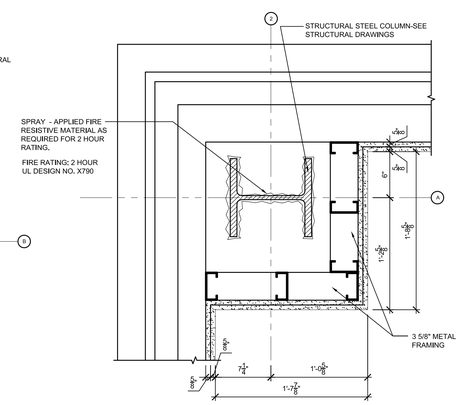
5 CORNER DETAIL
1 1/2" = 1'-0"



6 CORNER DETAIL
1 1/2" = 1'-0"



7 COL. ENCLOSURE
1 1/2" = 1'-0"



8 COL. ENCLOSURE
1 1/2" = 1'-0"

ARCHITECTURAL PLAN REFERENCE NOTES

NOTE	DESCRIPTION
01	1/2" DEPRESSED SLAB FOR RECESSED ENTRANCE FLOORING. SEE ENLARGED PLAN 1 AT SHEET A1.3 FOR DIMENSIONS.
02	LINE OF 1" EXPANSION - JOINT AND COVER PLATES REQUIRED
03	REMOVE EXISTING WINDOW - INFILL WITH BRICK MASONRY AND METAL STUD BACKUP
04	DEMOLISH EXISTING STAIR AND PREP FOR NEW WORK - INFILL CONCRETE SLAB AT SECOND FLOOR
05	EMERGENCY EXIT ONLY
06	STAIR ENCLOSURE COMPRISED OF 8" CMU WALLS
07	METAL STUD WALL WITH UTILITY BRICK FACE IN ENTRY/FRONT LOBBY CORRIDOR
08	4-HOUR VESTIBULE ENCLOSURE COMPRISED OF 8" CMU WALLS WITH METAL FURRING AND HIGH IMPACT GYPSUM BOARD AT ALL EXPOSED CMU SURFACES. LOBBY / ENTRY SIDE TO HAVE SOLID SURFACE MATERIAL FROM THE FLOOR TO 8'-0" / ABOVE.
09	DEMOLISH INTERIOR PARTITIONS, INTERIOR DOORS, AND ASSOCIATED FINISHES TO PREPARE FOR NEW WORK
10	REMOVE EXISTING WINDOW - INFILL WITH BRICK MASONRY AND METAL STUD BACKUP
11	REMOVE EXISTING DOOR AND REPLACE WITH TEMPORARY B-LABEL DOOR; (1) 48"W LEAF SWING INTO GYM; (1)36"W LEAF SWING OUT - REFER TO TEMPORARY EGRESS PLAN FOR ADDITIONAL INFORMATION
12	2'-9" x 6'-0" FULL LENGTH ADA MIRROR WITH THE BOTTOM OF THE REFLECTIVE SURFACE MOUNTED 15" A.F.F
13	4" TH CONCRETE PAD FOR MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION.
14	ELECTRIC HAND DRYER

NOTE: TYPICAL INTERIOR PARTITIONS SHALL BE COMPOSED OF 6" METAL STUDS WITH HIGH-IMPACT GYPSUM BOARD ON BOTH SIDES, UNLESS NOTED OTHERWISE. ALL PARTITIONS WITH HIGH IMPACT GYPSUM BOARDS AT BOTH SIDES SHALL HAVE A MINIMUM OF 20 GAUGE METAL STUDS.

GENERAL NOTES

NOTE	DESCRIPTION
A	SEE SHEET AS.6 DRAWING FOR TYPICAL MOUNTING HEIGHTS AND PLAN DIAGRAMS
B	CENTER LIGHTS IN ROOM UNLESS OTHERWISE NOTED
C	SEE SHEETS A14.1 & A14.2 FOR FINISH SCHEDULE AND SHEET A6.1 FOR PARTITION TYPES
D	PROVIDE ACCESSIBLE HEIGHT LIGHT SWITCHES, CONTROLS INTERCOMS, T-STATS, OUTLETS, AND RELOCATE EXISTING AS REQUIRED. SEE MECHANICAL DWGS. SEE AS.X SERIES DWGS. FOR MTG. HEIGHTS
E	NOT ALL KEYED NOTES APPEAR ON ALL SHEETS
F	FURNITURE SHOWN DASHED IS FOR REFERNCE ONLY AND N.I.C. 5% OF ALL FURNITURE MUST BE ACCESSIBLE FOR THE DESIGNATED AGE RANGE

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CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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7	ISSUED FOR BID	10.26.17
1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

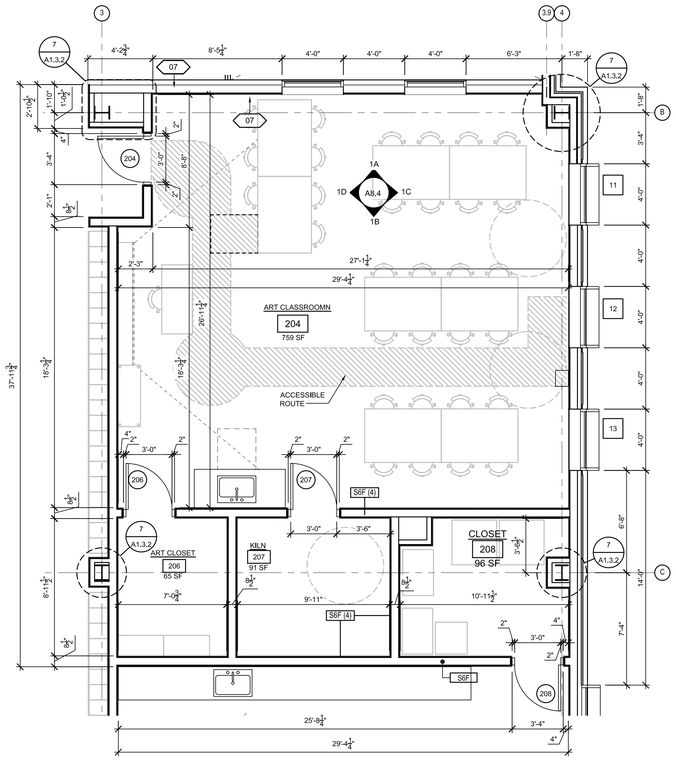
Title

ENLARGED PLANS

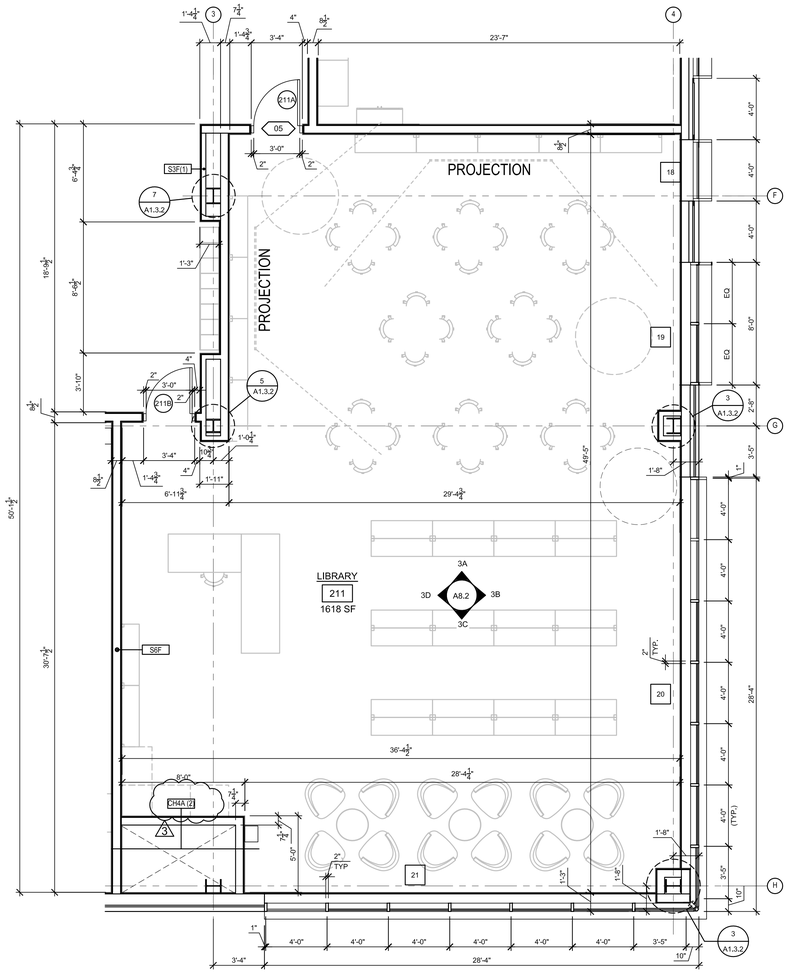
Sheet

A1.3

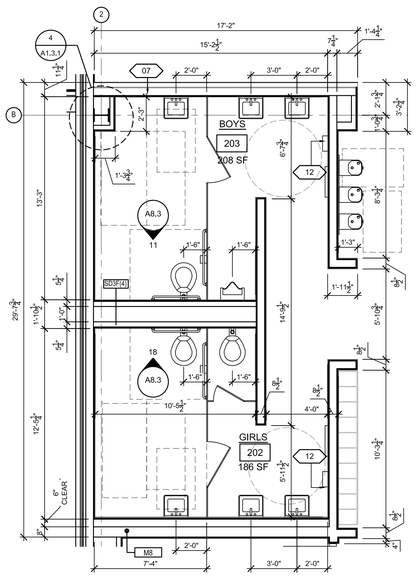
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



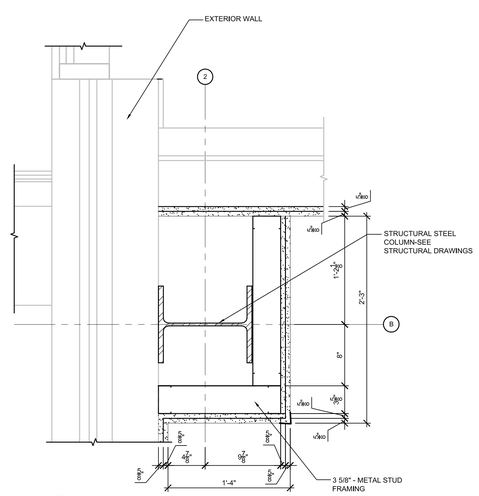
1 ENLARGED ART CLASSROOM FLOOR PLAN 2ND FLOOR
1/4" = 1'-0"
SEE SHEET A1.2 FOR WALL TYPES



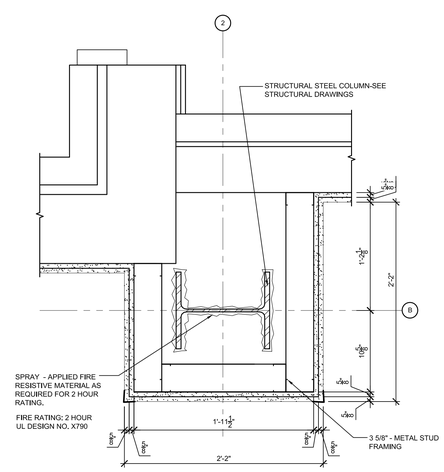
3 ENLARGED LIBRARY FLOOR PLAN 2ND FLOOR
1/4" = 1'-0"
SEE SHEET A1.2 FOR WALL TYPES



2 ENLARGED 2ND FLOOR TOILET ROOM PLAN
1/4" = 1'-0"
SEE SHEET A1.2 FOR WALL TYPES



4 COL. ENCLOSURE DETAIL
1 1/2" = 1'-0"



5 COL. ENCLOSURE DETAIL
1 1/2" = 1'-0"

ARCHITECTURAL PLAN REFERENCE NOTES

NOTE	DESCRIPTION
01	1/2" DEPRESSED SLAB FOR RECESSED ENTRANCE FLOORING, SEE ENLARGED PLAN 1 AT SHEET A1.3 FOR DIMENSIONS.
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PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

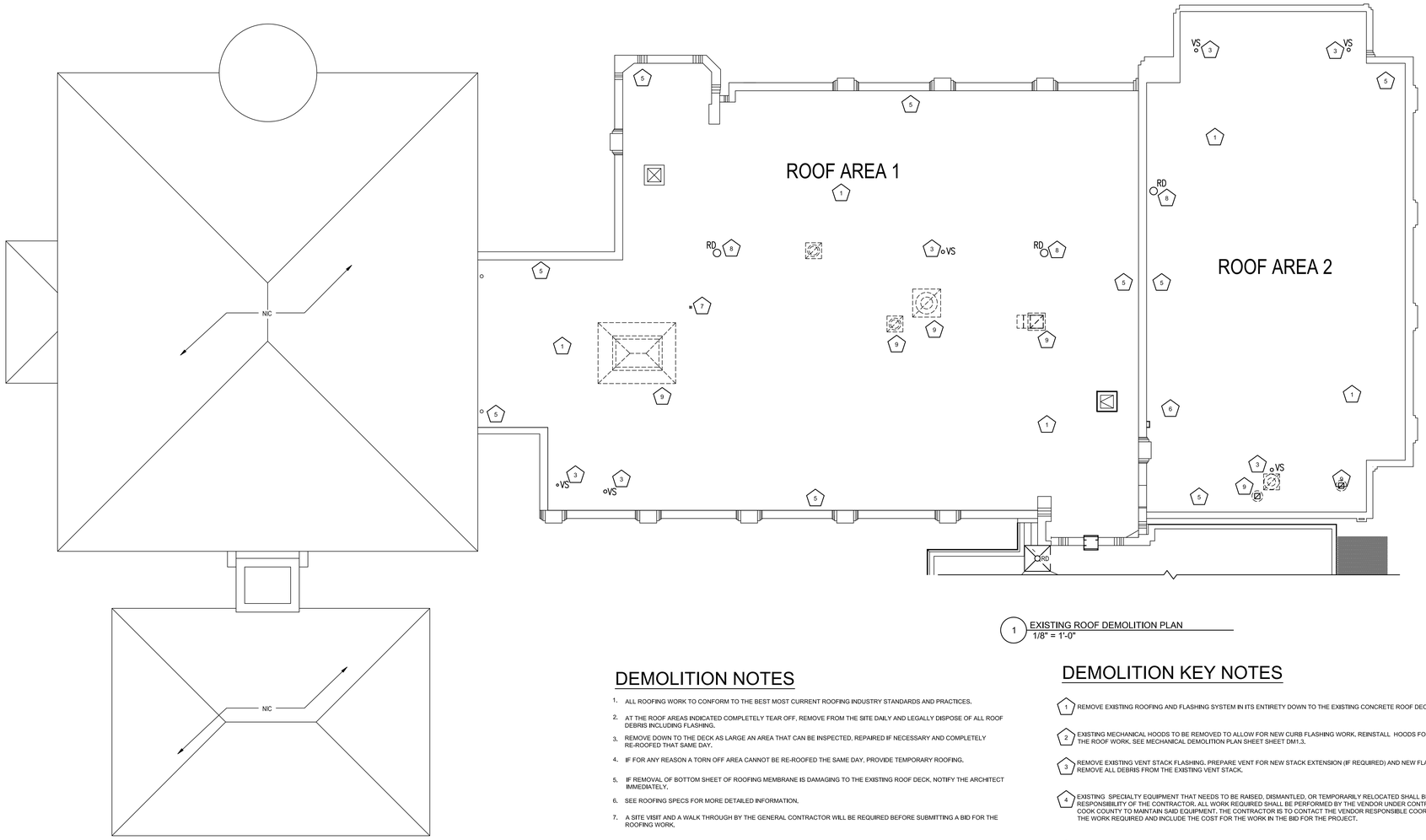
Title

ENLARGED PLANS

Sheet

A1.3.1

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 EXISTING ROOF DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION NOTES

1. ALL ROOFING WORK TO CONFORM TO THE BEST MOST CURRENT ROOFING INDUSTRY STANDARDS AND PRACTICES.
2. AT THE ROOF AREAS INDICATED COMPLETELY TEAR OFF, REMOVE FROM THE SITE DAILY AND LEGALLY DISPOSE OF ALL ROOF DEBRIS INCLUDING FLASHING.
3. REMOVE DOWN TO THE DECK AS LARGE AN AREA THAT CAN BE INSPECTED, REPAIRED IF NECESSARY AND COMPLETELY RE-ROOFED THAT SAME DAY.
4. IF FOR ANY REASON A TORN OFF AREA CANNOT BE RE-ROOFED THE SAME DAY, PROVIDE TEMPORARY ROOFING.
5. IF REMOVAL OF BOTTOM SHEET OF ROOFING MEMBRANE IS DAMAGING TO THE EXISTING ROOF DECK, NOTIFY THE ARCHITECT IMMEDIATELY.
6. SEE ROOFING SPECS FOR MORE DETAILED INFORMATION.
7. A SITE VISIT AND A WALK THROUGH BY THE GENERAL CONTRACTOR WILL BE REQUIRED BEFORE SUBMITTING A BID FOR THE ROOFING WORK.
8. DO NOT BLOCK EXISTING EXITS OR EXIT PASSAGE WAYS DURING CONSTRUCTION.
9. ALL EXISTING ADJACENT SURFACES AND LANDSCAPED AREAS ARE TO BE PROTECTED THROUGHOUT THE PROJECT. ANY SURFACES DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR USING MATERIALS THAT MATCH THE EXISTING CONSTRUCTION.
10. REMOVE ALL ITEMS INDICATED TO BE REMOVED INCLUDING ALL INCIDENTAL ACCESSORIES INCLUDING BUT NOT LIMITED TO WOOD BLOCKING, TRIM, JOINT SEALANT, AND BRACKETS UNLESS INDICATED TO REMAIN.
11. ALL ROOFING MOUNTED ELECTRICAL CONDUIT, LIGHTING, ETC. IS TO BE REMOVED AND RE-ROUTED THROUGH THE EXISTING ATTIC. SEE ROOF ELECTRICAL DEMOLITION PLAN SHEET DE1.3.

DEMOLITION KEY NOTES

1. REMOVE EXISTING ROOFING AND FLASHING SYSTEM IN ITS ENTIRETY DOWN TO THE EXISTING CONCRETE ROOF DECK.
2. EXISTING MECHANICAL HOODS TO BE REMOVED TO ALLOW FOR NEW CURB FLASHING WORK. REINSTALL HOODS FOLLOWING THE ROOF WORK. SEE MECHANICAL DEMOLITION PLAN SHEET DM1.3.
3. REMOVE EXISTING VENT STACK FLASHING. PREPARE VENT FOR NEW STACK EXTENSION (IF REQUIRED) AND NEW FLASHING. REMOVE ALL DEBRIS FROM THE EXISTING VENT STACK.
4. EXISTING SPECIALTY EQUIPMENT THAT NEEDS TO BE RAISED, DISMANTLED, OR TEMPORARILY RELOCATED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK REQUIRED SHALL BE PERFORMED BY THE VENDOR UNDER CONTRACT WITH COOK COUNTY TO MAINTAIN SAID EQUIPMENT. THE CONTRACTOR IS TO CONTACT THE VENDOR RESPONSIBLE COORDINATE THE WORK REQUIRED AND INCLUDE THE COST FOR THE WORK IN THE BID FOR THE PROJECT.
5. EXISTING LIMESTONE COPING CAP TO BE REMOVED AND RE-SET SEE DETAILS SHEET A1.5.2
6. EXISTING WALL MOUNTED LADDER RUNGS TO REMAIN.
7. EXISTING ABANDONED ANTENNA AND SUPPORT HOUSING TO BE REMOVED.
8. EXISTING ROOF DRAIN ASSEMBLY TO BE REMOVED.
9. EXISTING MECHANICAL HOOD AND CURB TO BE REMOVED. THE EXISTING ROOF OPENING IS TO BE FILLED AND ROOFED OVER WITH THE NEW ROOFING SYSTEM. SEE MECHANICAL ROOF DEMOLITION PLAN SHEET DM1.3.
10. EXISTING ROOF CURB TO BE REMOVED. EXISTING OPENING IS TO BE FILLED AND ROOFED OVER. SEE DETAILS SHEET A2A.

LEGEND

⊗ DRAIN

VENT

VS VENT STACK

EXISTING ROOF SYSTEM 3

ROOF AREA #1, & ROOF AREA #2

SINGLE PLY MEMBRANE (TROCAL) ON TAPERED INSULATION ON CONCRETE DECK.

GENERAL ROOF NOTES

1. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
3. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOFING MEMBRANE.
4. FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
5. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHINGS PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
6. ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
7. APPLY SINGLE PLY MEMBRANE MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
8. DRAINS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.
9. PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
10. WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
11. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.

ROOF PLAN FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
3. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
4. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 (PAINT) SCREW.
6. EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS 1 WITH NEOPRENE WASHERS.
10. FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
11. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.

ROOF CONSTRUCTION NOTES

NEW ROOFING SYSTEM IS TO SLOPE TO THE EXISTING ROOF DRAINS.

ROOF AREA 1 & 2 TO BE NEW MODIFIED BITUMEN MEMBRANE ROOFING ON TWO SYSTEM BASE PLIES WITH FULLY ADHERED TAPERED INSULATION FASTENED TO THE EXISTING CONCRETE ROOF DECK.

SEE ROOF DETAILS SHEET A1.5.1

ROOF AREA 1 +/- 6,200 SF

REMOVE AND RESET EXISTING STONE COPING ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE TWO STAINLESS STEEL PINS PER COPING. PRESUME 400 LF

LOCALLY PATCH SPALLED STONE COPING. ROUT AND EPOXY INJECT CRACKED STONE COPING. PROVIDE FOR 10% REPAIR OF COPING. REMOVE, REPAIR, AND RESET REPAIRED STONE COPING ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE TWO STAINLESS STEEL PINS PER COPING. 50 LF

REPLACE UNSALVAGABLE STONE COPING WITH NEW STONE COPING TO MATCH EXISTING SIZE AND PROFILE. PROVIDE FOR 10% REPLACEMENT OF COPING. SET NEW STONE COPING ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE TWO STAINLESS STEEL PINS PER COPING. 50 LF

GRIND AND TUCK POINT 100% OF MASONRY TO REMAIN AT ROOF SIDE OF PARAPETS. CLEAN MASONRY AFTER TUCK POINT WORK IS COMPLETE. ASSUME 2'-0" PARAPET HEIGHT. +/- 660 SF

LOCALLY DEMOLISH AND REBUILD DISPLACED, SPALLED, AND THROUGH-BRICK CRACKED MASONRY AT TWO WYTHES AT PARAPET, REBUILD WITH NEW BRICK TO MATCH EXISTING AND STAINLESS STEEL TIES TO BACKUP STRUCTURE, 20 SF

REMOVE ALL PARAPET MOUNTED LIGHTS. PROVIDE CPS STANDARD ROOF MOUNTED LIGHTS. 4 EA SEE ELECTRICAL DRAWINGS.

REMOVE ALL PARAPET MOUNTED CONDUIT AND REROUTE INTERIOR TO ATTIC SEE ELECTRICAL DRAWINGS.

ROOF AREA 2 +/- 3,250 SF

REMOVE AND RESET EXISTING STONE COPING ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE TWO STAINLESS STEEL PINS PER COPING. 170 LF

LOCALLY PATCH SPALLED STONE COPING. ROUT AND EPOXY INJECT CRAKCED STONE COPING. PROVIDES FOR 10% REPAIR OF COPING. REMOVE, REPAIR AND RESET REPAIRED STONE COPING ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUGH-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE TWO STAINLESS STEEL PINS PER COPING. 50 LF

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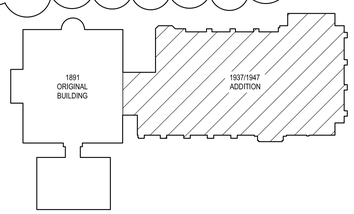
DEMOLISH ALL PARAPETS ALL WYTHES TO ROOF LINE, REBUILD PARAPET TO MATCH EXISTING OR MINIMUM REQUIRED FLASHING HEIGHT. (3 WYTHES, AVERAGE DEMO = 1'-0", AVERAGE REBUILD = 1'-6") PROVIDE ENGINEERED CONTROL JOINTS AND VERTICAL REINFORCEMENT. 170 LF

REMOVE ALL PARAPET MOUNTED LIGHTS, PROVIDE CPS STANDARD ROOF MOUNTED LIGHTS 4 EA SEE ELECTRICAL DRAWINGS.

REMOVE ALL PARAPET MOUNTED CONDUIT AND REROUTE INTERIOR TO ATTIC. SEE ELECTRICAL DRAWINGS

3



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6	90% CD	09.07.17
7	ISSUED FOR BID	10.26.17
1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

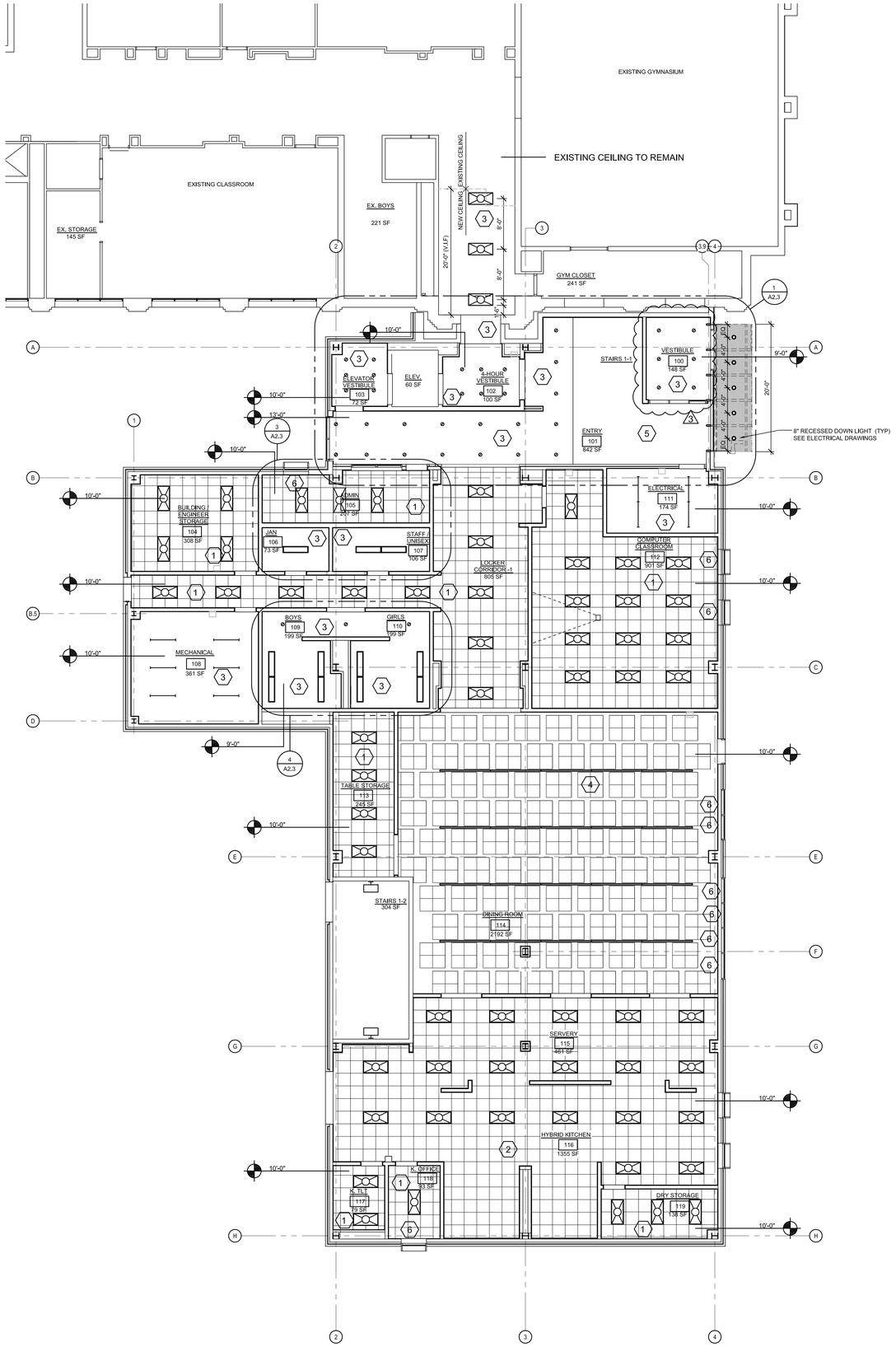
Title

EXISTING ROOF DEMOLITION PLAN

Sheet

A1.5.0

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

CEILING TYPE LEGEND

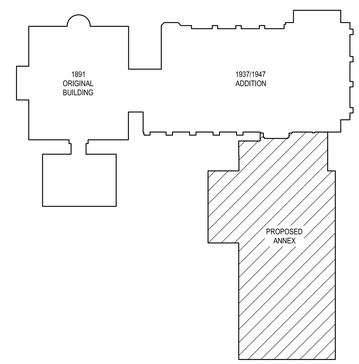
SYM.	DESCRIPTION
1	2'X2' ACOUSTICAL LAY-IN TILE
2	2'X2' LAY-IN SCRUBBABLE CEILING TILES, USDA APPROVED
3	NEW PAINTED GYPSUM BOARD CEILING ON METAL FRAMING. SEE PLAN FOR ELEVATION
4	PAINTED EXPOSED STRUCTURE WITH DROPPED ACOUSTICAL CLOUDS COMPRISED OF 4'X4'X11" THICK CEILING TILES WITH FIBERGLASS SUBSTRATE, ACOUSTICAL TRANSPARENT MEMBRANE WITH ACRYLIC PAINT FINISH WITH A NRC OF 95MIN.
5	OPEN ABOVE
6	WINDOW COVERING - ROLLER SHADE (MECH. SHADE - VINYL FABIC) MANUALLY OPERATED SOFFIT MOUNTED WINDOW SHADE

REFLECTED CEILING PLAN NOTES

NOTE	DESCRIPTION
1	PAINT ALL EXPOSED OPEN AREAS & CEILINGS
2	ALL CEILINGS TO BE 10'-0" A.F.F. U.N.O.
3	ALL A.C.T. CEILINGS TO BE ACT-1 U.N.O
4	ALL GYP. BD. CEILING TO BE PAINTED P-01 U.N.O.
5	COORDINATE ALL LIGHT FIXTURE/ EXIT SIGN DEVICES WITH ELECTRICAL DRAWINGS, DEVICES ARE SHOWN HERE TO REFLECT LOCATIONS. ANY DISCREPANCY BETWEEN THE ARCHITECTURAL AND ELECTRICAL DRAWING IN REGARDS TO QUANTITY OR TYPE SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
6	FOR ALL MECHANICAL GRILLES, DIFFUSERS ETC. SEE MECHANICAL DRAWINGS FOR EXACT QUANTITY, LOCATION, AND TYPE.
7	FOR SPRINKLER HEADS AND FIRE PROTECTION DEVICES SEE MECHANICAL/ ELECTRICAL/ PLUMBING/ FIRE PROTECTION DRAWINGS FOR EXACT QUANTITY, LOCATION AND TYPE.
8	CENTER ACOUSTICAL TILE GRID IN ROOM, AS INDICATED ON RCP, U.N.O.
9	CENTER LIGHT FIXTURES IN ACOUSTICAL TILES AS INDICATED ON RCP, U.N.O.
10	PAINT UNDERSIDE OF STAIRS AND LANDING IN ALL STAIRWELLS.
11	PROVIDE ACCESS PANELS IN GYP. BD. CEILING AS NECESSARY TO ACCESS MEP SYSTEMS. COORDINATE WITH MECHANICAL/ ELECTRICAL/ PLUMBING/ FIRE PROTECTION DRAWINGS AS NECESSARY.
12	PAINT ALL MECHANICAL GRILLES, DIFFUSERS AND ACCESS PANELS TO MATCH DRYWALL CEILING
13	CEILING MOUNTED PROJECTOR SCREEN WITH ADJUSTABLE BRACKET FIRMLY SECURED TO STRUCTURE ABOVE

LIGHT FIXTURE LEGEND

	DESCRIPTION
	8' LED STRIPLIGHT LITHONIA / TZL1N L96 - LED 0 W 120 V
	4" LED RECESSED WALLWASH GOTHAM / EVO WW 35/10 - LED 0 W 120 V CHICAGO PLENUM
	4' LED INTERIOR LINEAR FIXTURE PINNACLE / E2A - LED 0 W 120 V CHICAGO PLENUM
	2'x4' VOLUMETRIC TROFFER RECESS MOUNTED LITHONIA / 2VT8 2 32 ADP - FLUORESCENT 0 W 120 V CHICAGO PLENUM
	4' LED INTERIOR LINEAR FIXTURE PINNACLE / E2A - LED 0 W 120 V
	4" LED RECESSED MEDIUM BEAM DOWNLIGHT PORTFOLIO / LD4ACP09 - LED 0 W 120 V CHICAGO PLENUM
	1'x4' LED AMBIENT LENSED TROFFER RECESS MOUNTED LITHONIA / TL4 43L - LED 0 W 120 V CHICAGO PLENUM
	LOW-PROFILE ENCLOSED AND GASKETED INDUSTRIAL CEILING MOUNTED
	LOW BAY INDUSTRIAL LINEAR PENDANT LITHONIA / EJS 2 32 MVOLT - FLUORESCENT 0 W 120 V
	4' RECESSED MOUNTED WALL WASH PINNACLE / EV3WW - FLUORESCENT 0 W 120 V CHICAGO PLENUM 112
	4' WALL MOUNTED FIXTURE CORLITE / DW4-WA-4L30-IC-UNV-JU-WA-9-FC-W / 3000K LED



PUBLIC BUILDING COMMISSION
Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

1865 WEST MONTVALE AVE.
CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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WEB: www.onyxchicago.com

Design Architect:
LEGAT ARCHITECTS
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1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

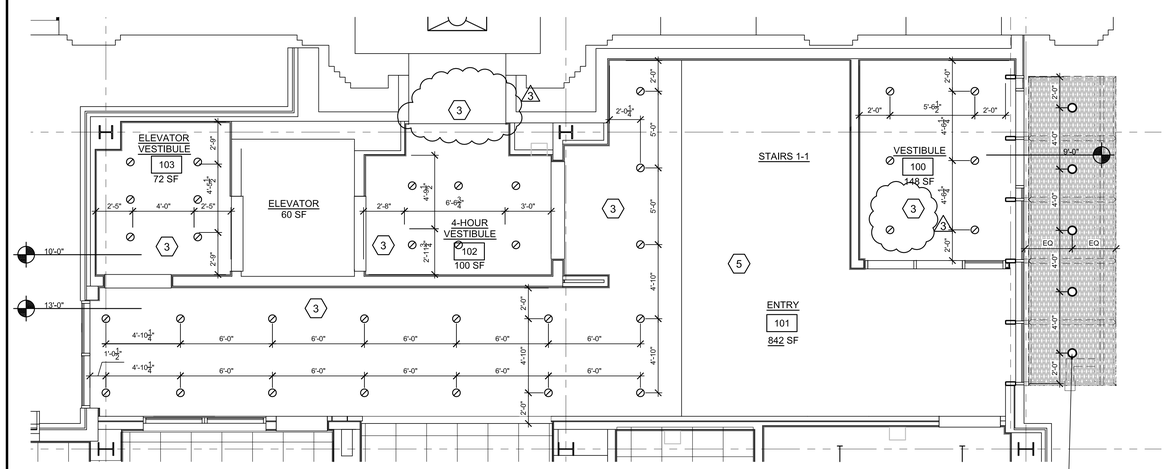
ONYX Project No: 17005

Title

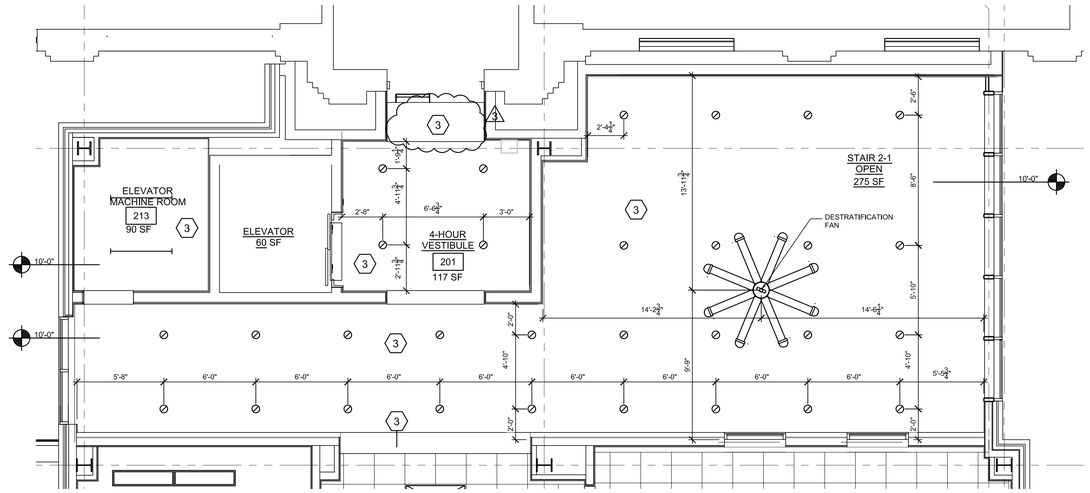
FIRST FLOOR REFLECTED CEILING PLAN

Sheet

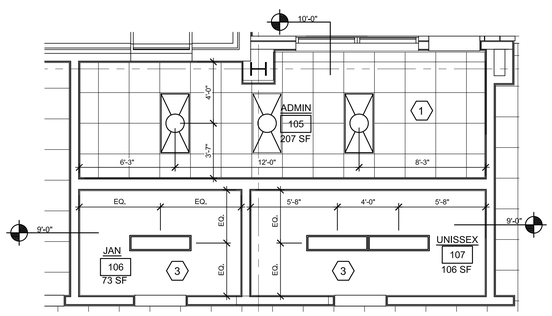
A2.1



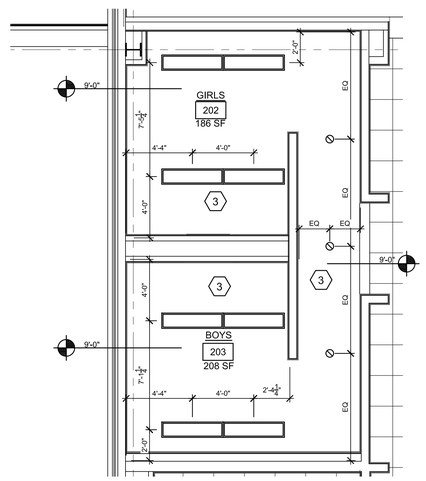
1 1ST FLOOR PARTIAL REFLECTED CEILING PLAN, ELEVATOR VESTIBULE, ELEVATOR, 4 HOUR VESTIBULE, ENTRY & VESTIBULE
1/4" = 1'-0"



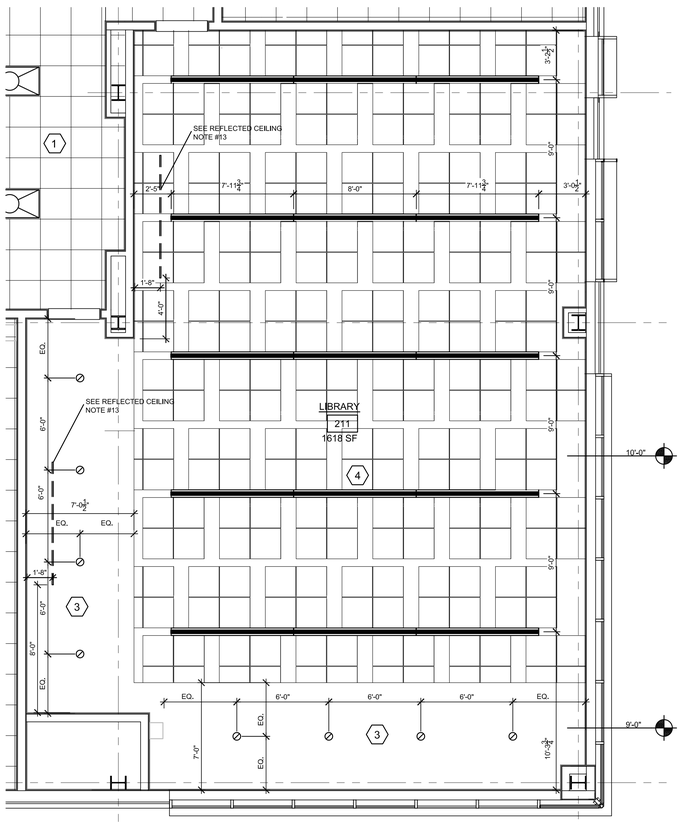
2 2ND FLOOR PARTIAL REFLECTED CEILING PLAN, ELEVATOR MACHINE ROOM, ELEVATOR, VESTIBULE & LOBBY
1/4" = 1'-0"



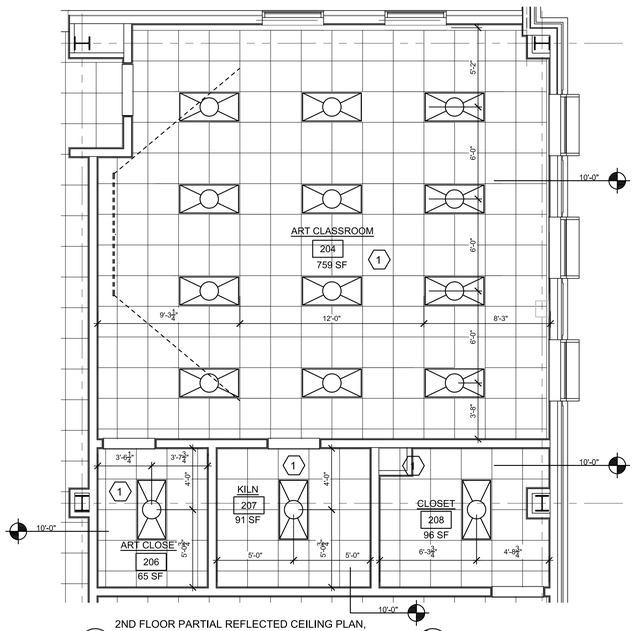
3 1ST FLOOR PARTIAL REFLECTED CEILING PLAN, UNISEX & JAN
1/4" = 1'-0"



4 2ND FLOOR PARTIAL REFLECTED CEILING PLAN, BOYS & GIRLS TOILET ROOM
1/4" = 1'-0"



5 2ND FLOOR PARTIAL REFLECTED CEILING PLAN, LIBRARY
1/4" = 1'-0"



6 2ND FLOOR PARTIAL REFLECTED CEILING PLAN, ART CLASSROOM & CLOSETS
1/4" = 1'-0"

CEILING TYPE LEGEND

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ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

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CITY OF CHICAGO, MAYOR RAHM EMANUEL

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PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

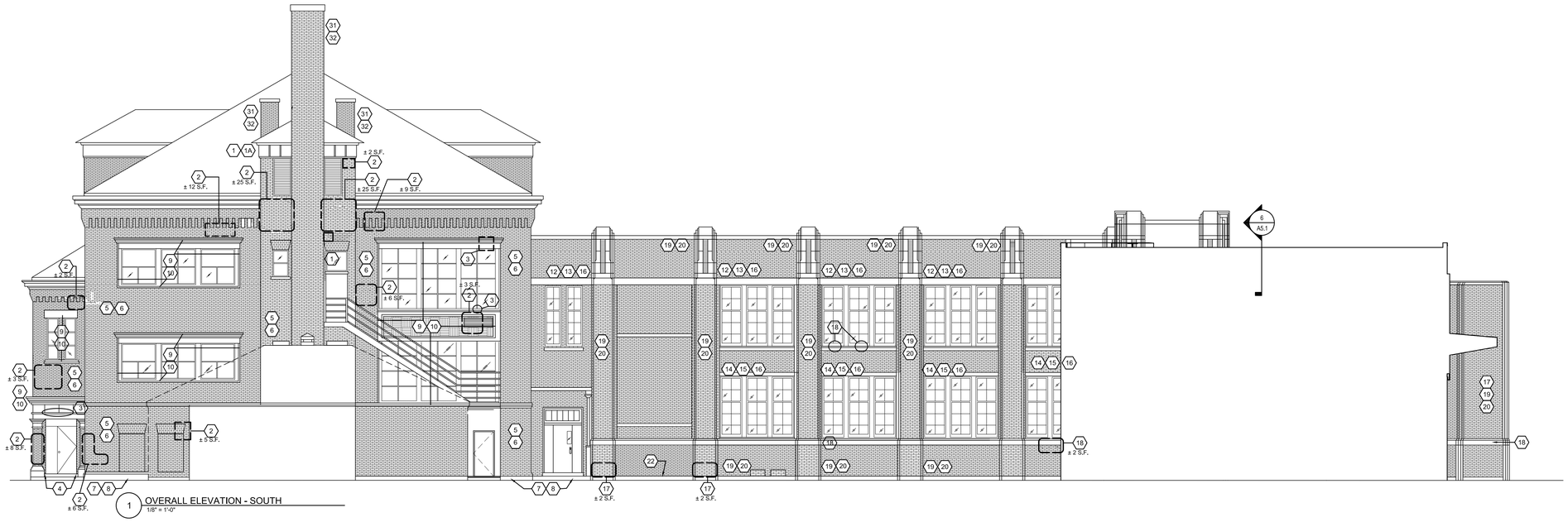
PBC Project No: 05125

ONYX Project No: 17005

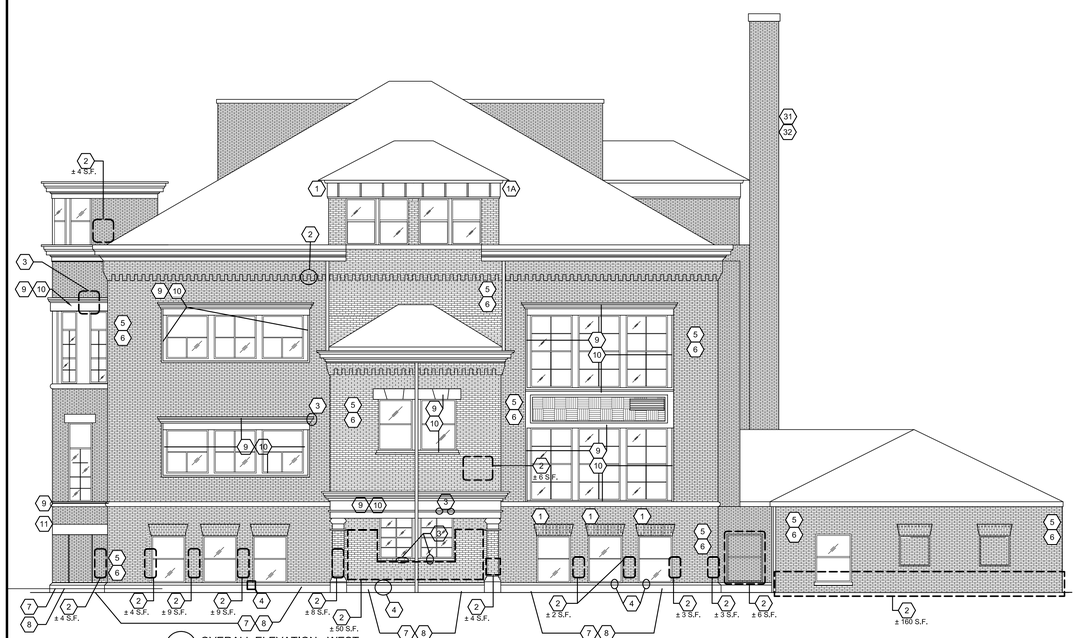
Title
ENLARGED REFLECTED CEILING PLAN

Sheet
A2.3

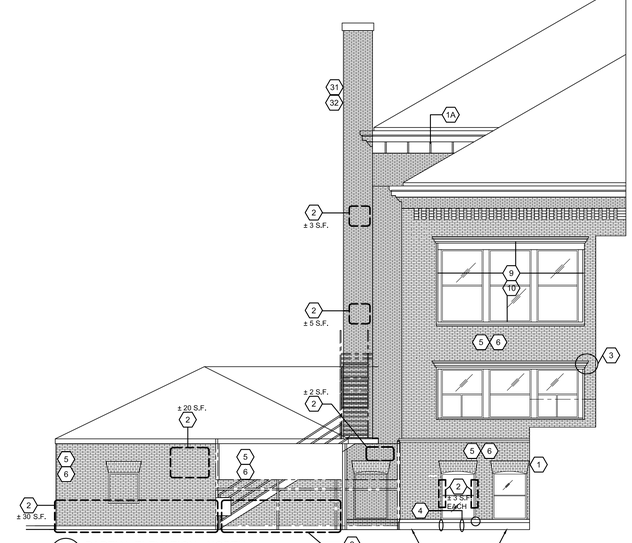
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 OVERALL ELEVATION - SOUTH
1/8" = 1'-0"



2 OVERALL ELEVATION - WEST
1/8" = 1'-0"



3 PARTIAL ELEVATION - NORTH
1/8" = 1'-0"

GENERAL NOTES

1. ALL EXISTING TERRA COTTA (COPINGS, QUOINS, LINTELS, SILLS, JAMBS, DECORATIVE BANDS, ETC.) TO REMAIN SHALL BE CLEANED. ALL TERRA COTTA SCHEDULED TO BE REPAIRED SHALL BE CLEANED AND RECEIVE 100% ENGINEERED COATING.

2. ALL EXISTING LIMESTONE SHALL BE CLEANED.

3. ALL EXISTING EXTERIOR SIGNAGE SHALL BE REMOVED AS REQUIRED FOR MASONRY CLEANING, GRINDING AND TUCKPOINTING, AND REINSTALLED UPON COMPLETION OF WORK. PROVIDE NEW ACCESSIBILITY DIRECTIONAL SIGNAGE AS INDICATED ON SHEET AS.3

4. ALL EXISTING ABANDONED FASTENERS, SCREWS, PLATES, CONDUIT, ETC. SHALL BE REMOVED, AND THE REMAINING HOLES SHALL BE PATCHED.

7. ALL EXISTING WINDOW GUARDS AND ASSOCIATED FRAMES SHALL BE REMOVED AS REQUIRED FOR GRINDING AND TUCKPOINTING AND LINTEL REPAIR WORK, STORED AND REINSTALLED UPON COMPLETION OF WORK.

8. REMOVE AND REPLACE EXISTING BACKER ROD AND SEALANT AT ALL MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS OF THE EXTERIOR WALLS, AS WELL AS ALL CONTROL AND EXPANSION JOINTS.

9. ALL EXISTING EXTERIOR MASONRY WALLS (BRICK, CMU, TERRA COTTA, ETC.) AT THE MAIN AND BOILER BUILDINGS SHALL BE 100% TUCKPOINTED, UNLESS NOTED OTHERWISE.

10. EXISTING STEEL FIRE ESCAPE TO BE REMAIN.

11. EXISTING WALL MOUNTED LIGHT FIXTURE TO BE REMOVED, REMOVE EXISTING JUNCTION BOX AND CONDUIT AND WIRING BACK TO SOURCE, PATCH WALL TO MATCH ADJACENT SURFACES.

12. EXISTING METAL GRATE AND FRAME TO BE REMOVED AND REPLACED UPON RE-BUILDING OF MASONRY WALL.

13. EXISTING SHEET METAL CAP AND FLASHING TO REMAIN.

14. EXISTING MASONRY WALL WITHIN MECHANICAL WELL BEYOND SHALL BE 100% GROUND AND TUCKPOINTED.

15. EXISTING LADDER RUNGS TO BE SCRAPED, PRIMED, AND PAINTED.

16. EXISTING ANTENNA AND ASSOCIATED CABLING TO BE REMOVED AS REQUIRED FOR GRINDING AND TUCKPOINTING, AND REINSTALLED UPON COMPLETION OF WORK. WORK TO BE COORDINATED WITH THE OFFICE OF EMERGENCY MANAGEMENT (OEM) THROUGH THE CHICAGO PUBLIC SCHOOLS.

17. EXISTING LIGHTNING ROD PROTECTION TO BE REMOVED AND REPLACED.

18. EXISTING TERRA COTTA TO BE REPAIRED IN PLACE.

19. EXISTING CONCRETE FOUNDATION TO BE REPAIRED.

20. EXISTING DOWNSPOUT AND ASSOCIATED DOWNSPOUT BRACKETS TO BE REMOVED AND REINSTALLED FOLLOWING COMPLETION OF ALL SCHEDULED GRINDING AND TUCKPOINTING WORK.

21. EXISTING WINDOWS & WINDOW GUARDS, ORNAMENTAL FENCING, ROOF LIGHTS, WALL MOUNTED SECURITY CAMERAS, DOORS & TRANSOMS, THERMOMETERS, BUILDING SIGNS, WINDOW MOUNTED AIR CONDITIONERS, INSULATED METAL PANELS, WALL MOUNTED CONDUIT, A-PHONE SYSTEM, DOWN SPOUTS, METER BOXES, WALL MOUNTED LIGHTS, LOUVERS, ETC. ARE TO BE COVERED AND PROTECTED AGAINST GRINDING DUST, FALLING MORTAR, ETC. ALL ITEMS DAMAGED DURING THE WORK OR LEFT IN A NON WORKING CONDITION, SHALL BE REPLACED BY THE GEN. CONTRACTOR, ANY ITEMS THAT ARE TO BE REMOVED AND RE-INSTALLED SHALL BE RE-INSTALLED IN A GOOD WORKING CONDITION, ANY ITEMS CURRENTLY UNDER WARRANTY SHALL BE REMOVED AND REPLACED BY THE PARTY HOLDING THE WARRANTY.

KEY NOTES

1. MAIN BUILDING FACADE: DEMOLISH BRICKS TO EXPOSE LINTEL ANGLE. SCRAPE, PRIME AND PAINT EXISTING STEEL LINTEL. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS AT LINTEL. REBUILD BRICK HEAD, STAINLESS STEEL TIES TO BACKUP.

1A. MAIN BUILDING: REMOVING WOOD SIDING ABOVE WINDOWS, TUCK-POINT THE MASONRY SURFACE UNDERNEATH AND REPLACE COMPOSITE WALL PANELS. SIZE AND COLOR: TO MATCH EXISTING.

2. MAIN BUILDING FACADE: LOCALLY DEMOLISH AND REBUILD DISPLACE, SPALLED AND THROUGH-BRICK CRACKED MASONRY TWO WYTHES. REBUILD WITH NEW BRICK TO MATCH EXISTING AND STAINLESS STEEL TIES TO BACK UP STRUCTURE.

3. MAIN BUILDING FACADE: LOCALLY PATCH SPALLED TERRA COTTA. LOCALLY EPOXY INJECT CRACKED TERRA COTTA. PROVIDE ENGINEERED COATING TO MATCH EXISTING TERRA COTTA FINISH (PROVIDE FOR MINIMUM 3 COLOR COATING COLOR MATCH).

4. MAIN BUILDING FACADE: LOCALLY PATCHED SPALLED STONE. ROUT AND EPOXY REPAIR CRACKED STONE. REMOVE AND RESET STONE ELEMENT WITH STAINLESS STEEL ANCHORS TO THE BACKUP STRUCTURE.

5. MAIN BUILDING FACADE: GRIND AND TUCK-POINT 100% OF MASONRY TO REMAIN AT FACADE, 1/2" DEEP.

6. MAIN BUILDING FACADE: POWERWASH EXISTING FACEBRICK

7. MAIN BUILDING FACADE: GRIND AND TUCK POINT 100% OF STONE BASE TO REMAIN AT BUILDING FACADE (PRESUME 15% OF TOTAL AREA)

8. MAIN BUILDING FACADE: POWERWASH STONE BASE

9. MAIN BUILDING FACADE: GRIND AND TUCK POINT 100% OF TERRA COTTA TO REMAIN AT BUILDING FACADE. PROVIDE FULL HEAD JOINTS RAKED BACK AND SEALANT AND BACKER ROD AT SKYWARD FACING JOINTS. (PRESUME 15% OF TOTAL QUANTITY)

10. MAIN BUILDING FACADE: POWERWASH TERRA COTTA

11. MAIN BUILDING FACADE: DEMOLISH BRICK MASONRY. TERRA COTTA AND EXISTING STEEL AT PREVIOUSLY INFILLED OPENINGS. REBUILD WITH CMU AND FACE BRICK FLUSH WITH ADJACENT WALL WITH STAINLESS STEEL TIES TO BACKUP STRUCTURE. TOOTH NEW MASONRY FLUSH INTO MASONRY.

12. ADDITION FACADE: REMOVE/SALVAGE STONE WINDOW HEAD. DEMO BRICKS. EXPOSE LINTEL. SCRAPE, PRIME AND PAINT LINTEL. NEW FLASHING, TERMINATION BAR, DRIP EDGE END DAMS & CELL VENT WEEPS. REINSTALL EXISTING STONE HEAD. REBUILD BRICK WITH STAINLESS STEEL TIES TO THE BACK UP STRUCTURE.

13. ADDITION FACADE: REMOVE/SALVAGE STONE WINDOW HEAD. DEMO BRICKS. EXPOSE LINTEL SCRAPE, PRIME AND PAINT LINTEL. NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS. PATCH/REPAIR STONE HEAD. REBUILD BRICK WITH STAINLESS STEEL TIES.

14. ADDITION FACADE: DEMOLISH BRICKS TO EXPOSE LINTEL ANGLE. SCRAPE, PRIME AND PAINT EXISTING STEEL LINTEL. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS AT LINTEL. REBUILD BRICK HEAD, STAINLESS STEEL STEEL TIES TO BACKUP.

15. ADDITION FACADE: LOCALLY REMOVE MASONRY AT BRICK WINDOW HEAD TO EXPOSE LINTEL. AT LINTELS WITH MORE THAN 25% SECTION LOSS, REPLACE EXISTING LINTEL WITH NEW GALVANIZED STEEL LINTEL. REBUILD MASONRY WITH STAINLESS STEEL TIES TO BACK UP STRUCTURE. (PRESUME LINTEL REPLACEMENT AT 20% OF WINDOW HEADS).

16. ADDITION FACADE: AT LINTELS TO BE REPAIRED/REPLACED, WHERE EXTERIOR WYTHE OF BRICK AT WINDOW HEAD IS DEMOLISHED PER SEPARATE LINTEL LINE ITEMS: DEMOLISH 3 COURSES OF BRICK AT INTERIOR WYTHE OF MASONRY. SCRAPE, PRIME AND PAINT BACKUP STEEL BEAM FULL HEIGHT (APPROX. 9" TALL) AND LENGTH INCLUDING END CONNECTIONS REBUILD MASONRY WITH STAINLESS STEEL TIES TO BACK UP STRUCTURE.

17. ADDITION FACADE: LOCALLY DEMOLISHED AND REBUILD DISPLACED, SPALLED AND THROUGHBRICK CRACKED MASONRY TWO WYTHES. REBUILD WITH NEW BRICK TO MATCH EXISTING AND STAINLESS STEEL TIES TO THE BACKUP STRUCTURE.

18. ADDITION FACADE: LOCALLY PATCH SPALLED STONE. ROT AND EPOXY REPAIR CRACKED STONE.

19. ADDITION FACADE: GRIND AND TUCK-POINT 100% OF MASONRY TO REMAIN AT FACADE, 1/2" DEEP.

20. ADDITION FACADE: WASH MASONRY AFTER TUCK POINT WORK IS COMPLETE.

21. ADDITION FACADE: DEMOLISH BRICK MASONRY, STONE AND EXISTING STEEL AT PREVIOUSLY INFILLED OPENINGS. REBUILD WITH CMU AND FACE BRICK TOOTHED INTO AND LAID FLUSH FLUSH WITH ADJACENT MASONRY WITH STAINLESS STEEL TIES TO BACKUP STRUCTURE.

22. ADDITION FACADE: LOCALLY DEMOLISH ALL LOOSE CONCRETE. SCRAPE, PRIME AND PAINT ALL EXPOSED REINFORCEMENT WITH ANTI-CORROSION BONDING AGENT. PROVIDE ADDITIONAL REINFORCEMENT AS REQUIRED. PATCH SPALLED CONCRETE ACCORDING TO PATCH MATERIAL MANUFACTURER'S REPAIR INSTRUCTIONS. ROUT AND EPOXY REPAIR CONCRETE CRACKS.

23. ADDITION ROOF: REMOVE AND RESET EXISTING STONE COPING ON A FULL BED OF MORTAR WITH CONTINUOUS STAINLESS STEEL THROUG-WALL FLASHING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE TWO STAINLESS STEEL PINS PER COPING.

24. ADDITION ROOF: LOCALLY PATCH SPALLED STONE COPING. ROUT AND EPOXY INJECT CRACKED TERRA COTTA COPING. PROVIDE FULL HEAD JOINTS RAKED BACK AND PROVIDE SEALANT. PROVIDE TWO STAINLESS STEEL PINS PER COPING.

25. ADDITION ROOF: LOCALLY PATCH SPALLED STONE COPING. ROUT AND EPOXY INJECT CRACKED TERRA COTTA COPING. PROVIDE ENGINEERED COATING TO MATCH EXISTING TERRA COTTA FINISH. QUANTITY INCLUDES LOW ROOFS AT NORTH ELEVATION.

26. ADDITION ROOF: REPLACE UNSALVAGEABLE STONE COPING WITH NEW STONE COPING TO MATCH EXISTING SIZE AND PROFILE. PROVIDE ENGINEERED COATING AT NEW STONE ELEMENTS TO MATCH EXISTING TERRA COTTA FINISH (PROVIDE FOR MINIMUM 3 COLOR COATING MATCH).

27. ADDITION ROOF: DEMOLISH PARAPET ALL WYTHES TO ROOF (3 WYTHES) AND VENEER DOWN TO THE TOP FLOOR WINDOW HEAD LEVEL. REBUILD PARAPET AND VENEER TO MATCH EXISTING HEIGHT, DEMO 1'-0. REBUILD 1'-6".

28. ADDITION ROOF: GRIND AND TUCK-POINT 100% OF MASONRY TO REMAIN AT ROOF SIDE OR PARAPET, 1/2" DEEP

29. ADDITION ROOF: POWERWASH ROOF SIDE OF PARAPET

30. ADDITION ROOF: LOCALLY DEMOLISH AND REBUILD DISPLACED, SPALLED AND THROUGH-BRICK CRACKED MASONRY TWO WYTHES. REBUILD WITH NEW BRICK TO MATCH EXISTING AND STAINLESS STEEL.

31. CHIMNEY: REMOVE AND REBUILD BRICK CHIMNEY FACADE, TWO WYTHES WITH NEW BRICK TO MATCH EXISTING AND STAINLESS STEEL TIES TO BACK UP STRUCTURE. (PRESUME 50 S.F.)

32. CHIMNEY: GRIND AND TUCK-POINT BRICK MASONRY. WASH MASONRY AFTER TUCK-POINT WORK IS COMPLETE CHIMNEY, EXTERIOR

33. MAIN BUILDING: GRIND AND TUCK POINT STONE JOINTS AT MAIN ENTRY "ARCHWAY"

34. EXTEND EXISTING HOSE BIB AS REQUIRED FOR THE INSTALLATION OF THE NEW MASONRY INFILL. (SEE PLUMBING DRAWINGS)

35. MAIN BUILDING: LOCALLY DEMOLISH ALL LOOSE CONCRETE. SCRAPE, PRIME AND PAINT ALL EXPOSED REINFORCEMENT WITH ANTI-CORROSION BONDING AGENT. PROVIDE ADDITIONAL REINFORCEMENT AS REQUIRED. PATCH SPALLED CONCRETE. ROUT AND EPOXY REPAIR

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CITY OF CHICAGO, MAYOR RAHM EMANUEL

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WEB: www.onyxchicago.com

Design Architect:
LEGAT ARCHITECTS
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7	ISSUED FOR BID	10,26,17
1	ADDENDUM NO. 1	11,14,17
3	ADDENDUM NO. 3	11,30,17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

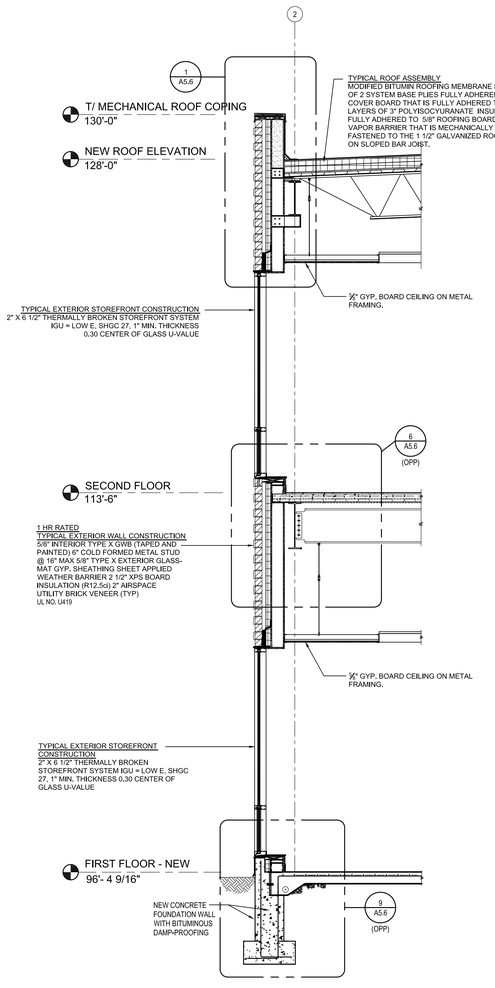
Title

EXTERIOR BUILDING ELEVATIONS

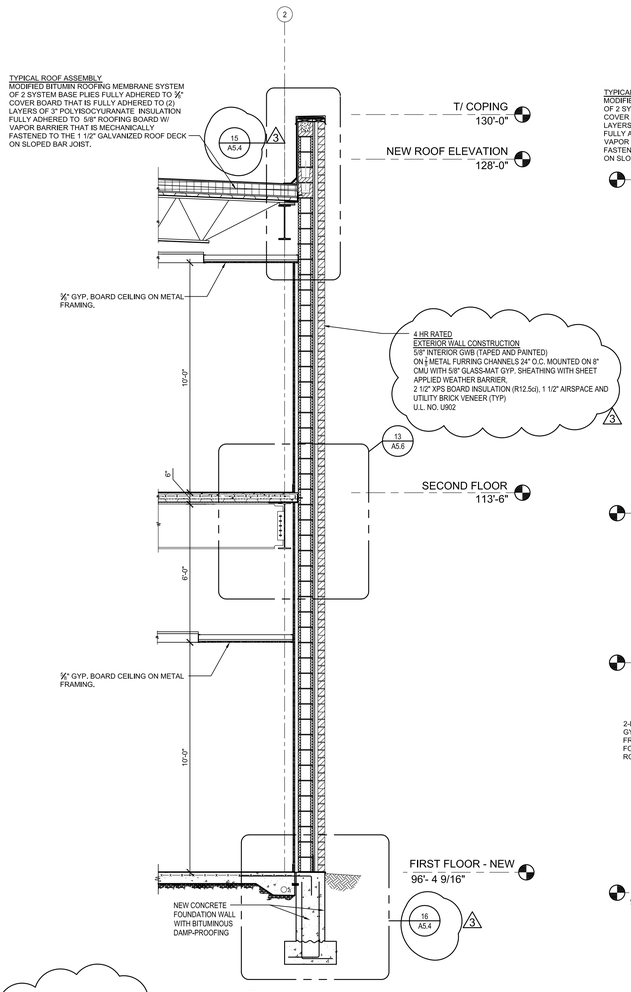
Sheet

A3.2

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



10 EXTERIOR WALL SECTION DETAIL (TYP.)
3/8" = 1'-0"



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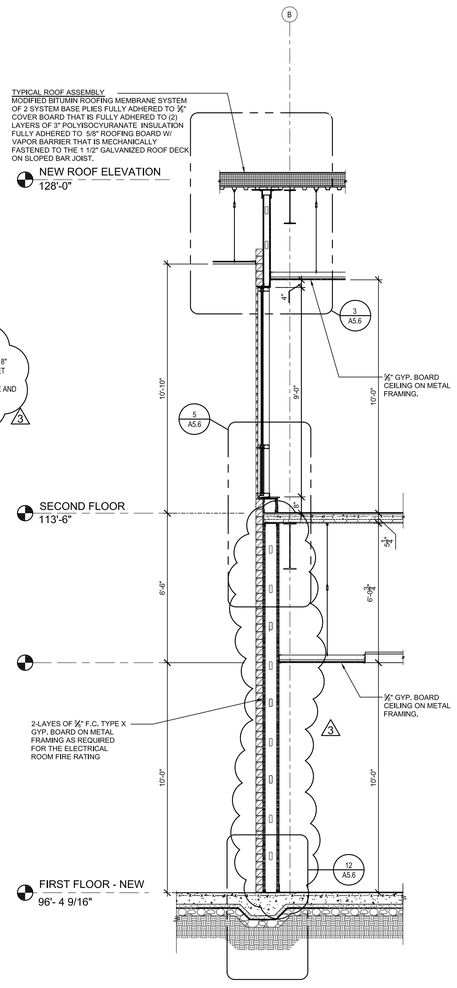

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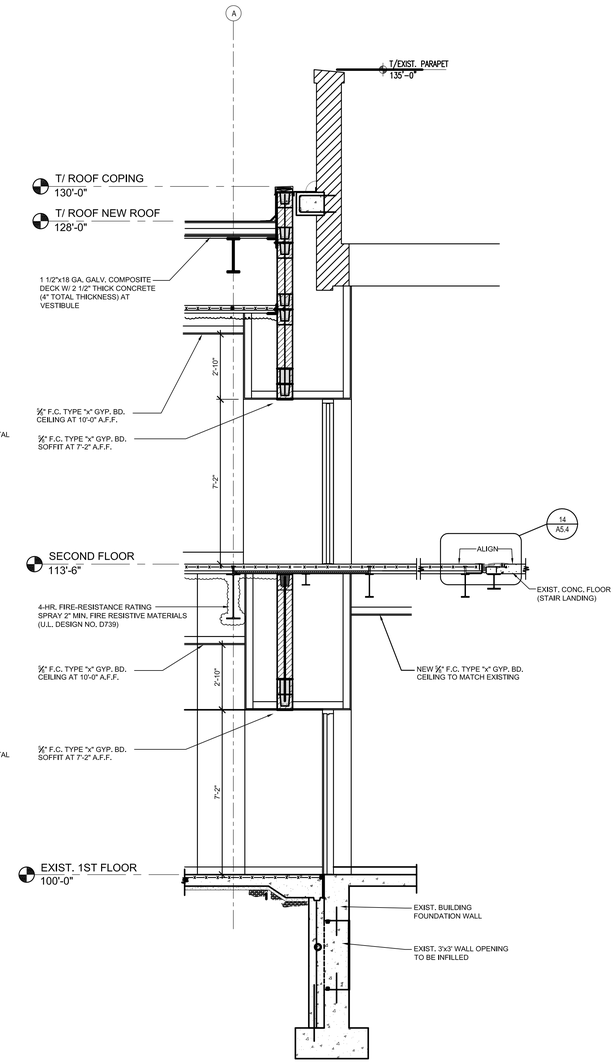

13 NEW & EXISTING BUILDING SECTION
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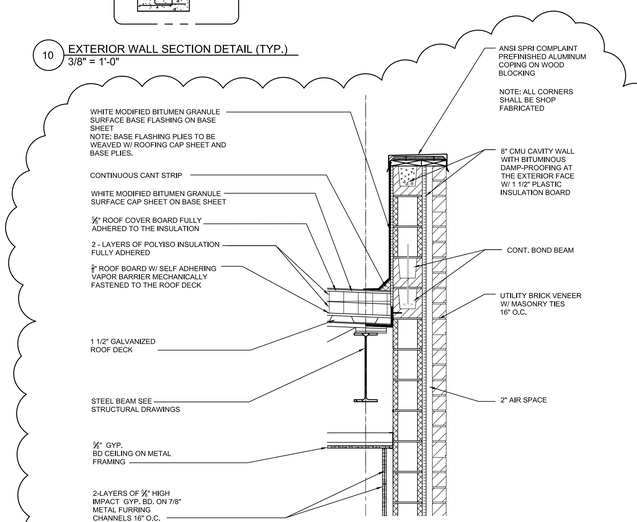
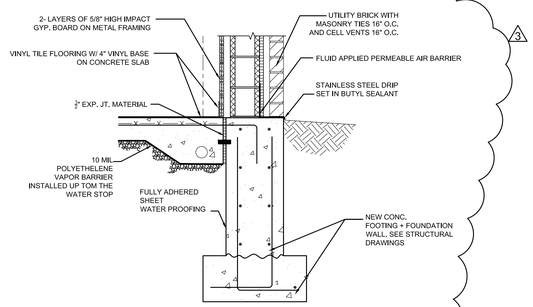
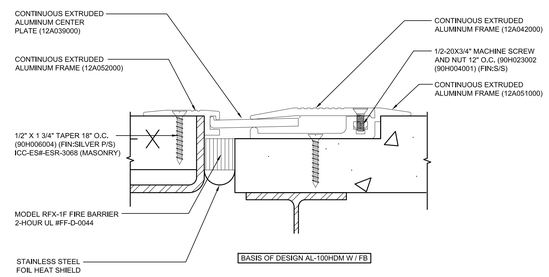


15 PARAPET DETAIL
3/4" = 1'-0"



16 PARAPET DETAIL
3/4" = 1'-0"



14 FLOOR EXPANSION JOINT
3" = 1'-0"

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1	ADDENDUM NO. 1	11.14.17
2	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

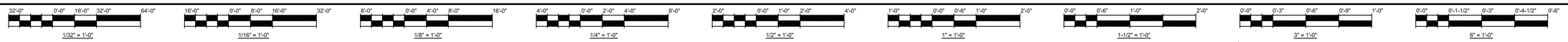
ONYX Project No: 17005

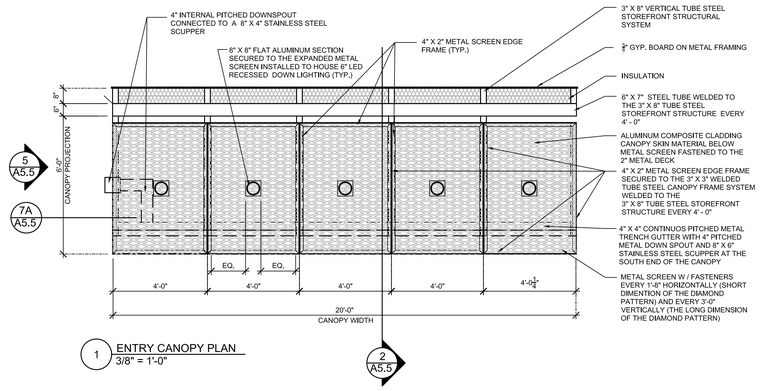
Title

WALL SECTIONS

Sheet

A5.4





1 ENTRY CANOPY PLAN
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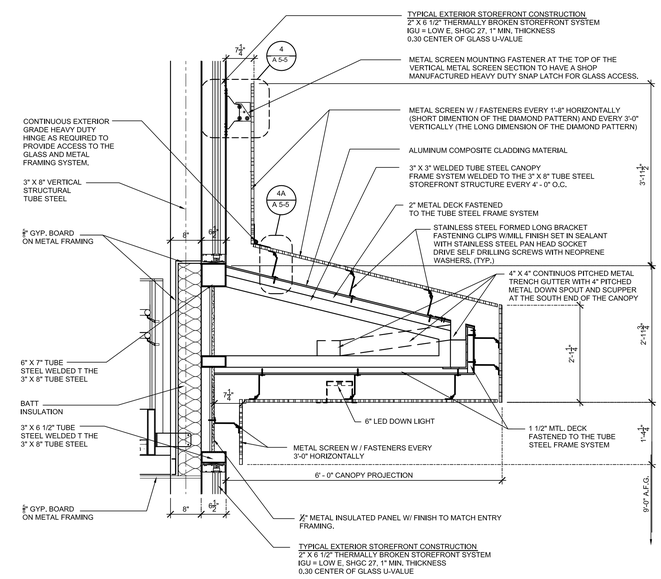
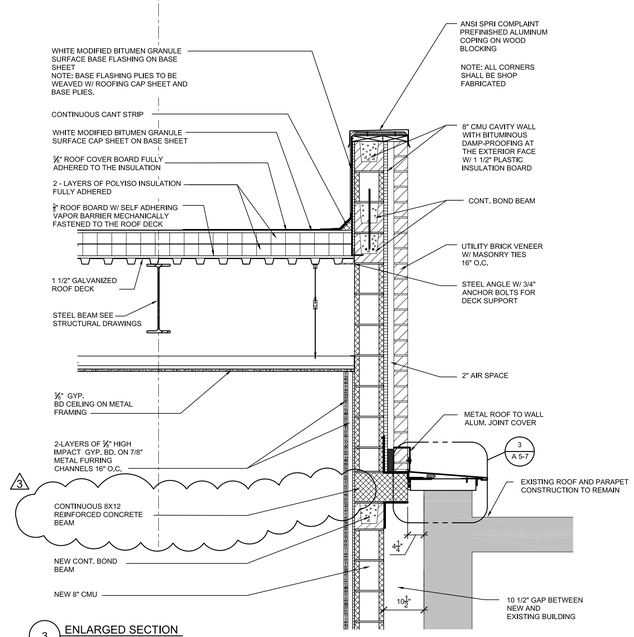
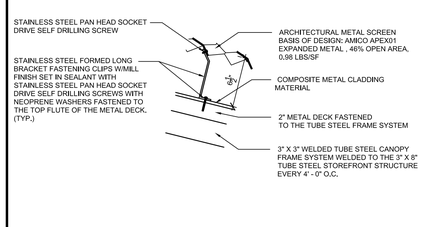


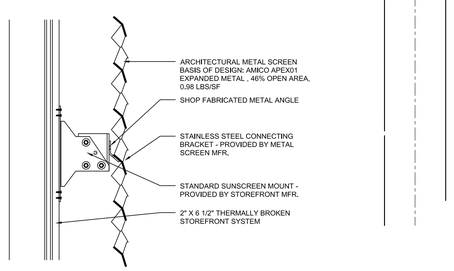
2 ENTRY CANOPY DETAIL
3/4" = 1'-0"



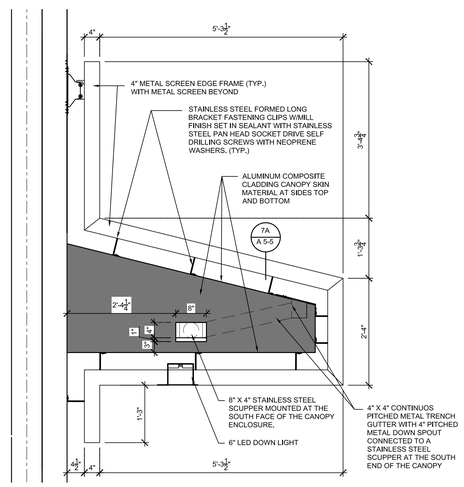
3 ENLARGED SECTION
3/4" = 1'-0"



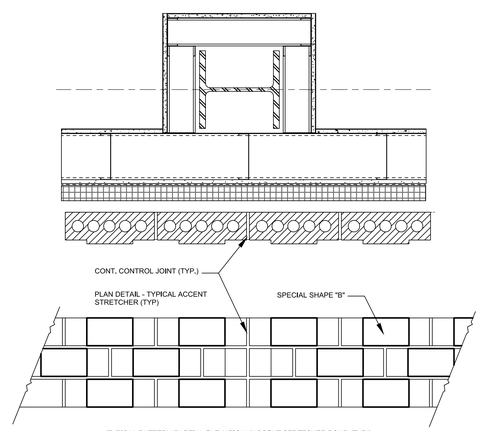
4A SECTION DETAIL - CANOPY METAL SCREEN
1 1/2" = 1'-0"



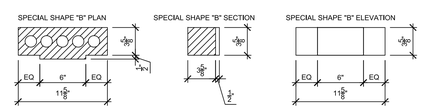
4 SECTION DETAIL - CANOPY METAL SCREEN
1 1/2" = 1'-0"



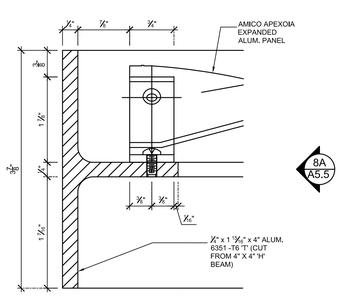
5 CANOPY SIDE ELEVATION
3/4" = 1'-0"



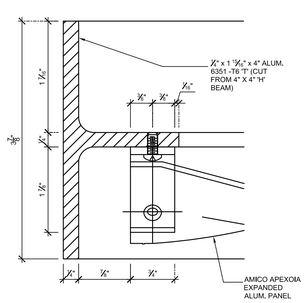
TYPICAL PATTERN PARTIAL ELEVATION [ACCENT STRETCHER BOND (TYP)]



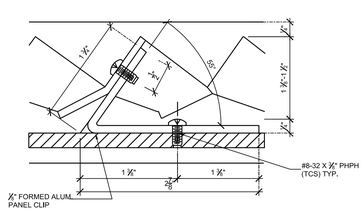
6 PLAN DETAIL - TYPICAL AT TEXTURED BRICK
1 1/2" = 1'-0"



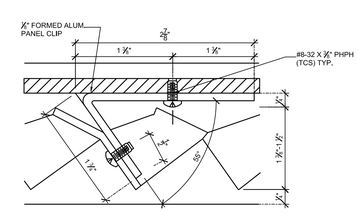
7A TYP. PNAEL CLIP AT FRAME - FRONT ELEVATION
1'-0" = 1'-0"



7B TYP. PNAEL CLIP AT FRAME - FRONT ELEVATION
1'-0" = 1'-0"



8A TYP. PANEL CLIP AT FRAME - SECTION
1'-0" = 1'-0"



8B TYP. PANEL CLIP AT FRAME - SECTION
1'-0" = 1'-0"

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1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

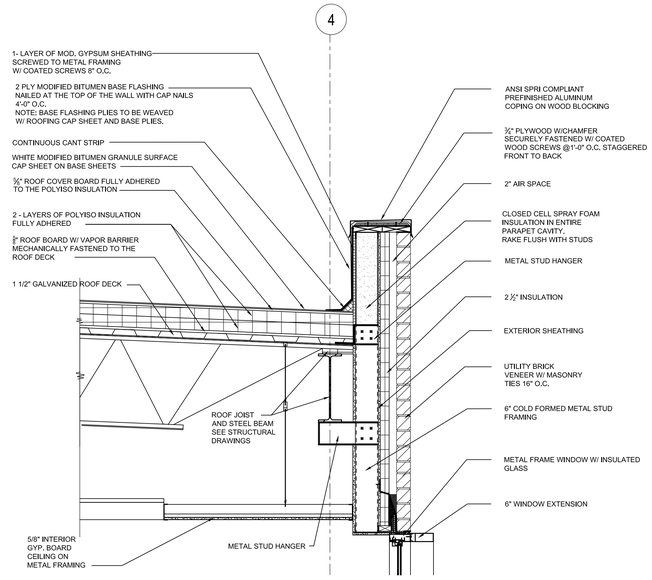
Title

DETAILS

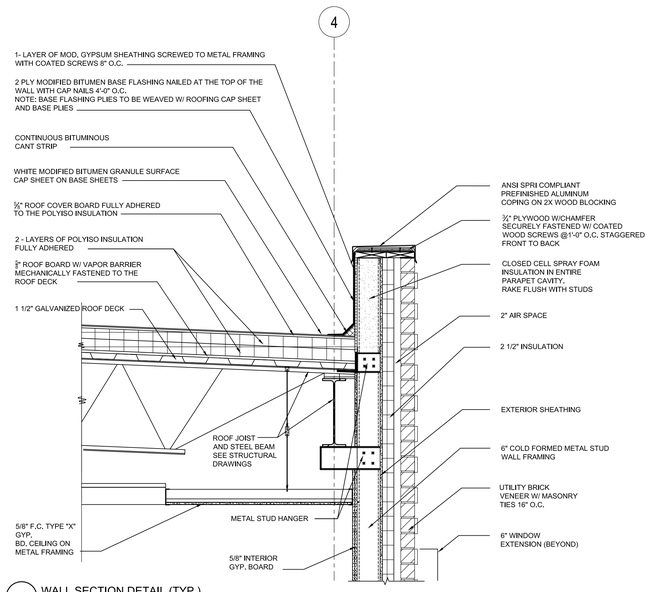
Sheet

A5.5

32'-0" 0'-0" 16'-0" 32'-0" 64'-0" 1/32" = 1'-0"
16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0"
8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0"
4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0"
2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0"
1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0"
0'-0" 0'-6" 1'-0" 2'-0" 1-1/2" = 1'-0"
0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0"
0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" 6" = 1'-0"



1 WALL SECTION DETAIL (TYP.)
3/4" = 1'-0"



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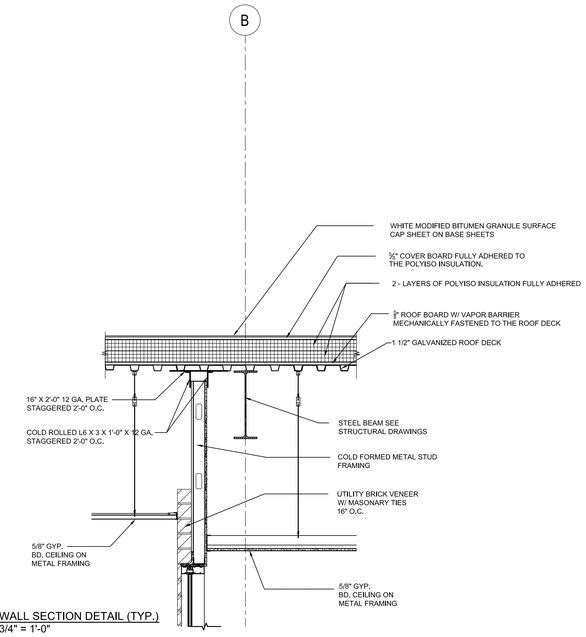

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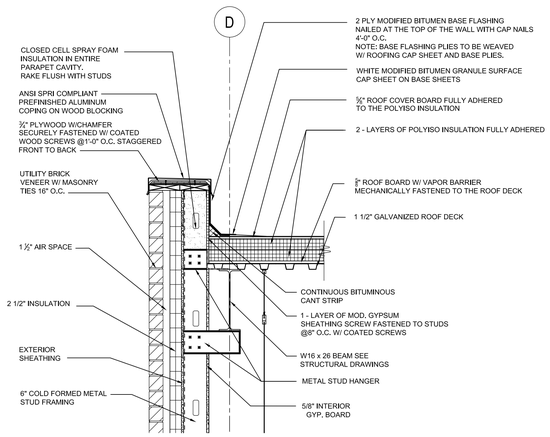

4 WALL SECTION DETAIL
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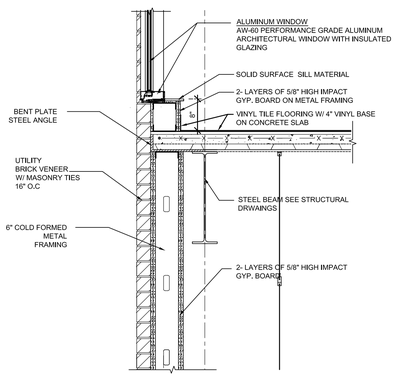
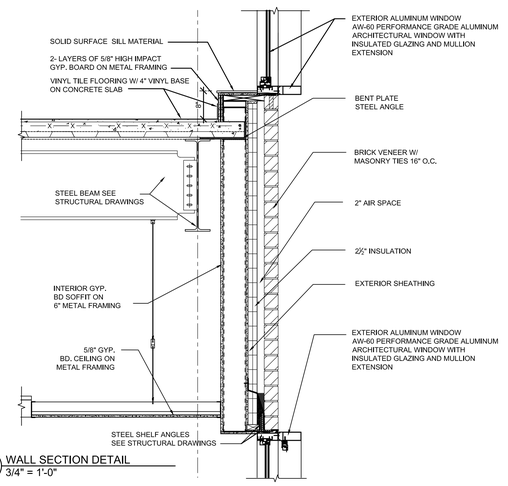
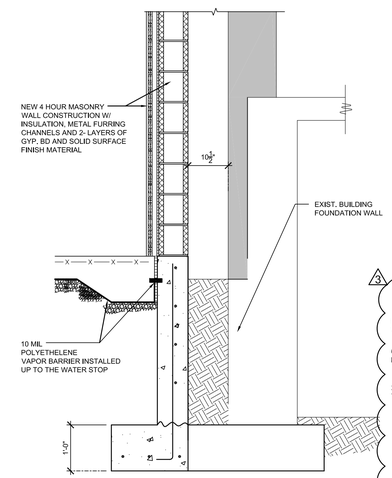


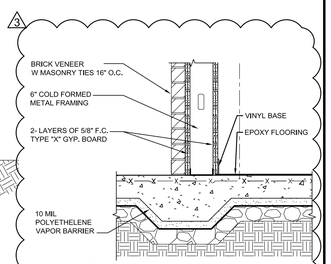
5 WALL SECTION DETAIL
3/4" = 1'-0"



6 WALL SECTION DETAIL
3/4" = 1'-0"



7 SECTION FDN. AT EXIST.
3/4" = 1'-0"



12 SECTION INTERIOR WALL
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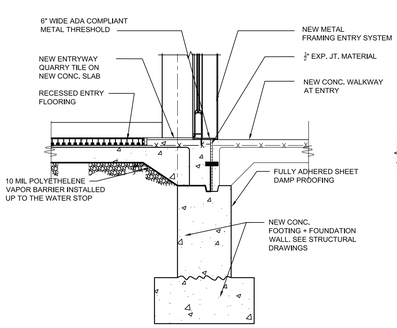

8 WALL SECTION DETAIL
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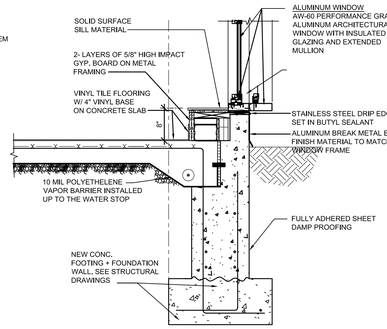
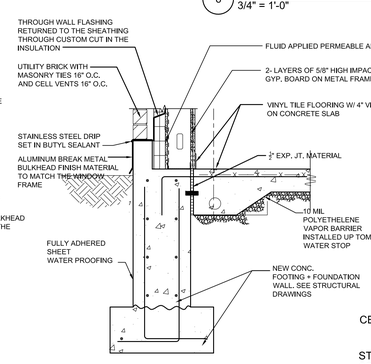
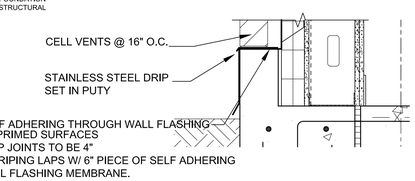


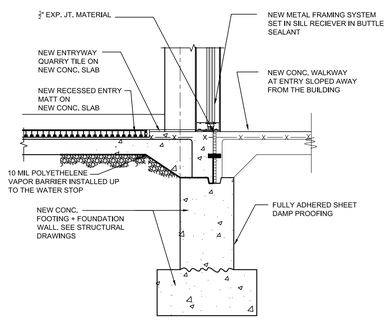
9 WALL SECTION DETAIL
3/4" = 1'-0"



10 SECTION FDN. WALL
3/4" = 1'-0"



10A SECTION FDN. WALL
1 1/2" = 1'-0"



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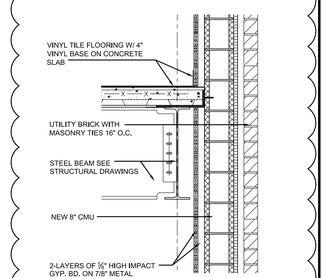

13 WALL SECTION DETAIL
3/4" = 1'-0"

PUBLIC BUILDING COMMISSION
Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

1865 WEST MONTVALE AVE.
CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
ONYX Architectural Services Inc.
ADDRESS: 750 N. FRANKLIN #207
Chicago, Illinois 60654
PHONE: 312-787-2748
FAX: 312-787-2857
WEB: www.onyxchicago.com

Design Architect:
LEGAT ARCHITECTS
SUSTAINABILITY | PERFORMANCE | DESIGN
ADDRESS: 651 W Washington Blvd. #1
Chicago, Illinois 60661
PHONE: 312.258.9595
FAX: 312.258.1555
WEB: www.legat.com

KMI Engineering
223 W. Jackson Blvd, #1010
Chicago, IL
Structural Design Engineers

Terra Engineering LTD.
225 W. Ohio St, 4th Flr
Chicago, IL
Civil Design Engineers

Dynacepts Engineering, LTD
2250 East Devon Ave. Suite 218
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MEPFP Design Engineers

Planning Resources, Inc.
402 W. Liberty Drive
Wheaton, IL
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Issuance

MARK	DESCRIPTION	DATE
1	AOR PREVIEW	04.10.17
2	100% SD	04.24.17
3	SD TRANSFER	05.11.17
4	100% DD	06.02.17
5	60% CD	07.27.17
6	90% CD	09.07.17
7	ISSUED FOR BID	10.26.17
△1	ADDENDUM NO. 1	11.14.17
△3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

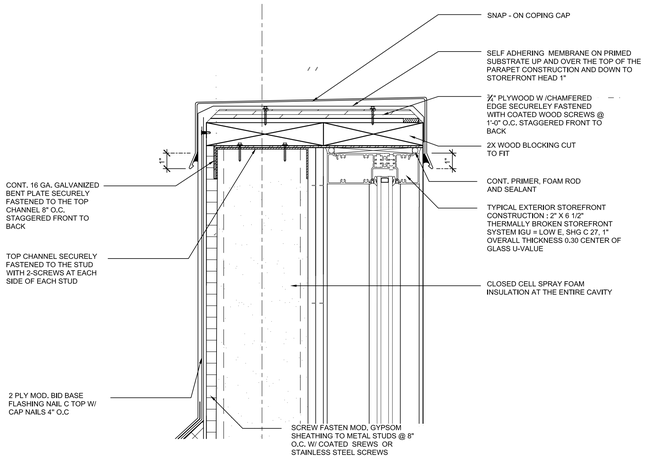
PBC Project No: 05125

ONYX Project No: 17005

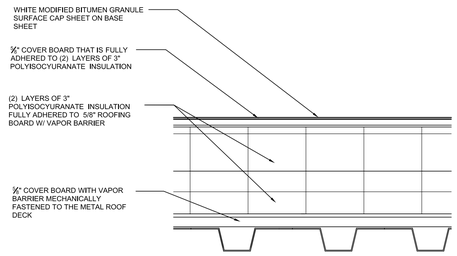
Title
WALL SECTIONS

Sheet
A5.6

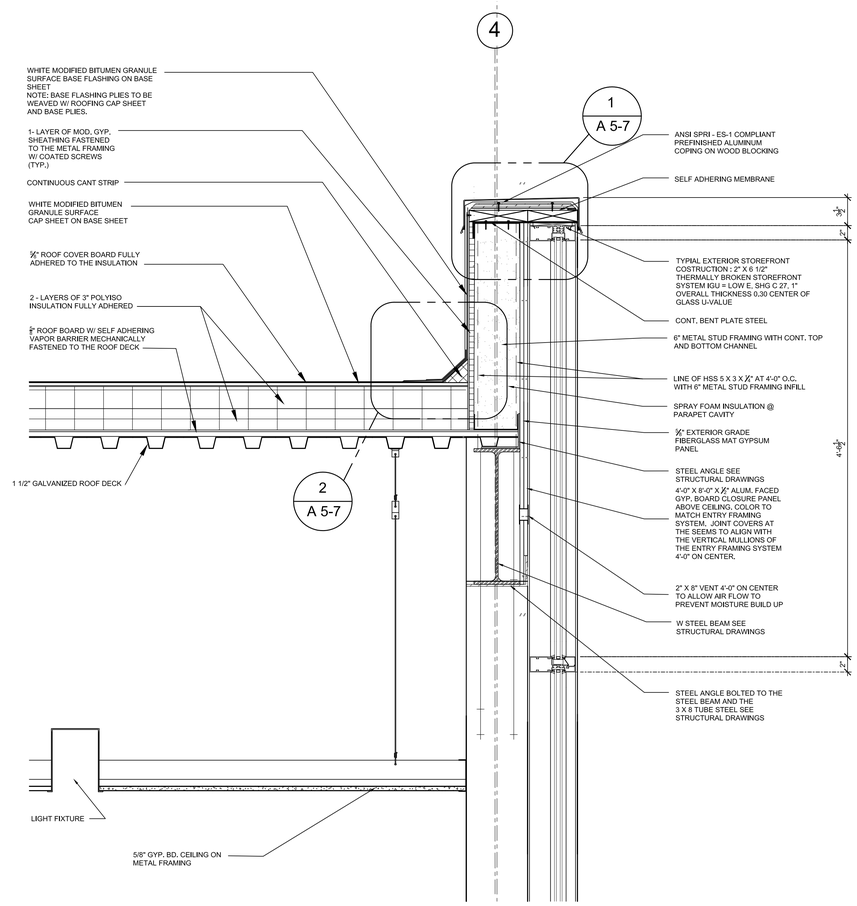
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



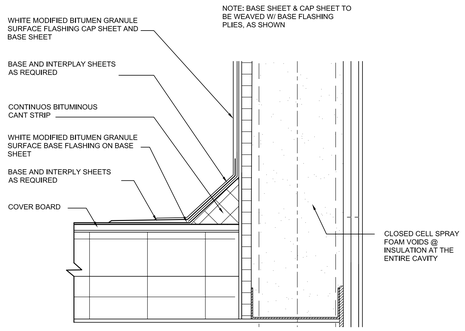
1 COPING DETAIL
3" = 1'-0"



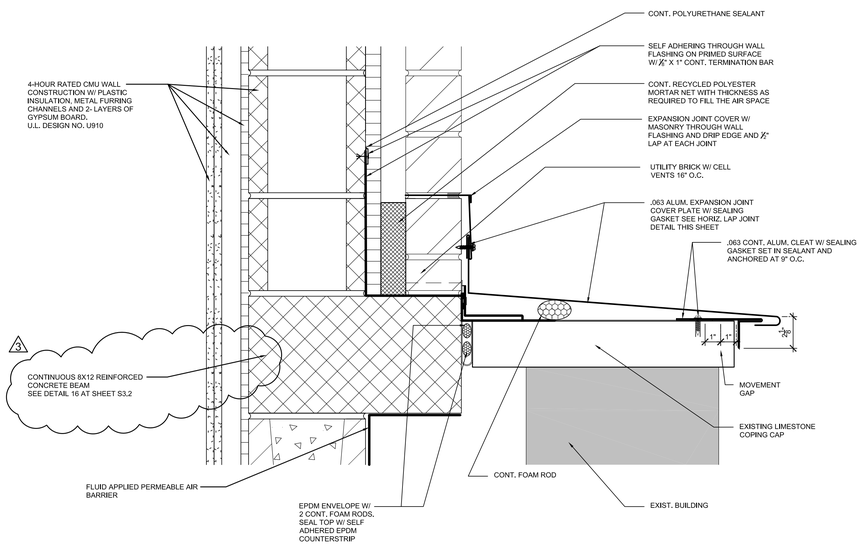
2A ROOFING DETAIL
3" = 1'-0"



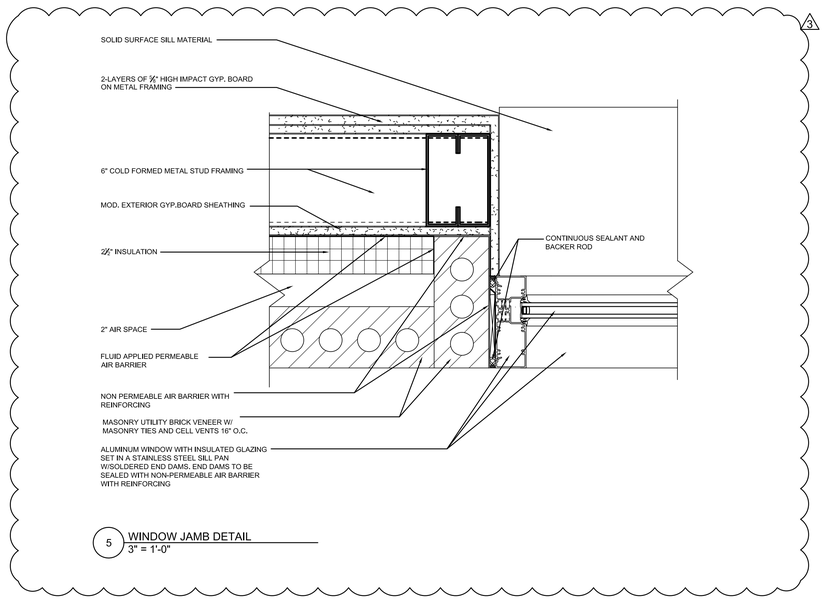
4 SECTION DETAIL - T/STOREFRONT
1 1/2" = 1'-0"



2 FLASHING DETAIL
3" = 1'-0"



3 JOINT DETAIL
3" = 1'-0"



5 WINDOW JAMB DETAIL
3" = 1'-0"

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1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

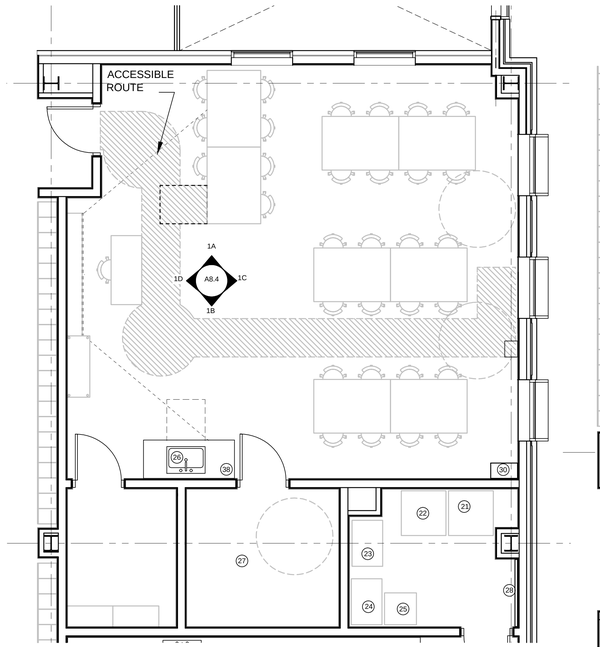
Title

DETAILS

Sheet

A5.7

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



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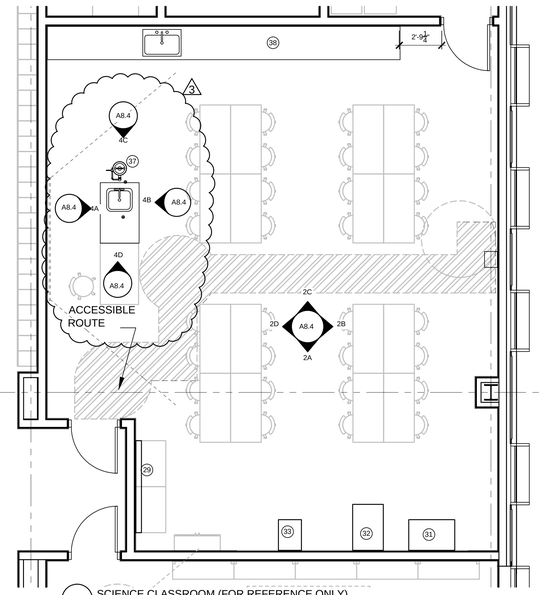
1/4" = 1'-0"



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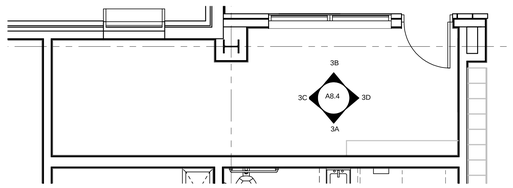
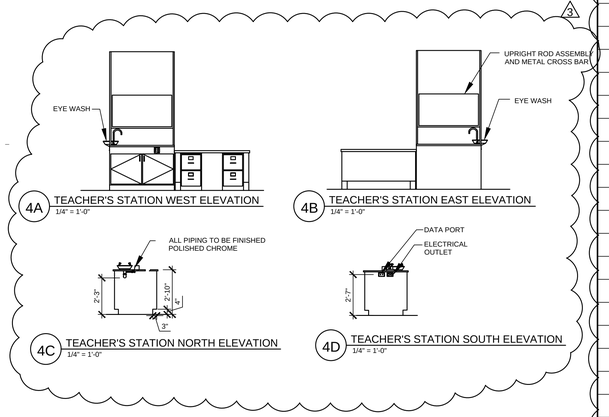
1/4" = 1'-0"



3 ADMIN (FOR REFERENCE ONLY)
1/4" = 1'-0"



4A TEACHER'S STATION WEST ELEVATION
1/4" = 1'-0"

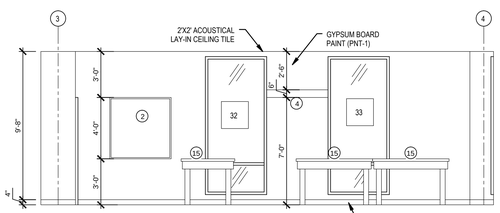
4B TEACHER'S STATION EAST ELEVATION
1/4" = 1'-0"

4C TEACHER'S STATION NORTH ELEVATION
1/4" = 1'-0"

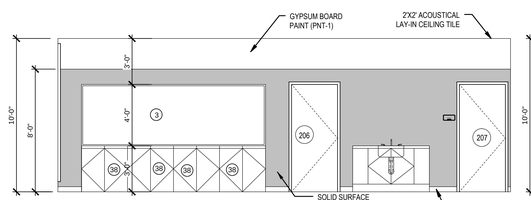
4D TEACHER'S STATION SOUTH ELEVATION
1/4" = 1'-0"

Legend

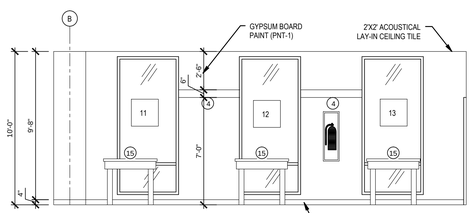
ITEM NO. / SYM	DESCRIPTION	SIZE	SPEC: SECTION	QTY	COMMENTS
1	TACK BOARD	24"X48"		3	FURNISHED AND INSTALLED BY THE CONTRACTOR
2	TACK BOARD	48"X48"		7	FURNISHED AND INSTALLED BY THE CONTRACTOR
3	TACK BOARD	144"X48"		1	FURNISHED AND INSTALLED BY THE CONTRACTOR
4	TACK STRIP	48"X6"		10	FURNISHED AND INSTALLED BY THE CONTRACTOR
5	WHITE BOARD	144"X48"		8	FURNISHED AND INSTALLED BY THE CONTRACTOR
6	TEACHER DESK	30"X66"		5	FURNISHED AND INSTALLED BY THE OWNER
7	PROJECTION SCREEN	6"X96"		6	FURNISHED AND INSTALLED BY THE OWNER CONTRACTOR TO COORDINATE
8	FILE STORAGE	36"X30"		4	FURNISHED AND INSTALLED BY THE OWNER
9	TABLE	24"X72"		18	FURNISHED AND INSTALLED BY THE OWNER
10	BOOKSHELF	14"X48"X84"		13	FURNISHED AND INSTALLED BY THE OWNER
11	BOOKSHELF	24"X48"X36"		2	FURNISHED AND INSTALLED BY THE OWNER
12	MAILBOX	72"X84"X12"		1	FURNISHED AND INSTALLED BY THE OWNER
13	CLOCK			5	FURNISHED AND INSTALLED BY THE CONTRACTOR
14	TABLE	24"X54"		16	FURNISHED AND INSTALLED BY THE OWNER
15	TABLE	42"X60"		8	FURNISHED AND INSTALLED BY THE OWNER
16	TABLE	24"X30"		30	FURNISHED AND INSTALLED BY THE OWNER
17	COMPUTER			44	FURNISHED AND INSTALLED BY THE OWNER
18	DEMONSTRATION TABLE			1	FURNISHED AND INSTALLED BY THE OWNER
19	CABINET	24"X36"X72"		21	FURNISHED AND INSTALLED BY THE OWNER
20	PRINTER	24"X60"		3	FURNISHED AND INSTALLED BY THE OWNER
21	METAL WALL MOUNTED GOGGLE SANITIZER CABINET	24"X32"		1	FURNISHED AND INSTALLED BY THE CONTRACTOR
22	METAL FLAMMABLE CHEMICAL STORAGE CABINET	30"X26"		1	FURNISHED AND INSTALLED BY THE OWNER
23	TALL WARDROBE CABINET	72"X36"		5	FURNISHED AND INSTALLED BY THE OWNER
24	HAZARDOUS (ACID) STORAGE CABINET	96"X36"		1	FURNISHED AND INSTALLED BY THE OWNER
25	FLAMMABLE STORAGE CABINET	96"X36"		1	FURNISHED AND INSTALLED BY THE OWNER
26	BASE CABINET ADA SINK BASE	22"X36"X24"		2	FURNISHED AND INSTALLED BY THE OWNER
27	KILN			1	FURNISHED AND INSTALLED BY THE OWNER
28	LAB COAT HOOK UNIT	24"X54"		1	FURNISHED AND INSTALLED BY THE CONTRACTOR
29	PLASTIC LABORATORY GLASSWARE DRYING RACK	42"X60"		1	FURNISHED AND INSTALLED BY THE CONTRACTOR
30	ART DRYING RACK	51"X21"X12"		1	FURNISHED AND INSTALLED BY THE OWNER
31	LAPTOP CHARGING CART	40"X24"X36"		1	FURNISHED AND INSTALLED BY THE OWNER
32	LAPTOP CHARGING UNIT	40"X36"X24"		1	FURNISHED AND INSTALLED BY THE OWNER
33	MOBILE UTILITY CART	44"X18"X24"		1	FURNISHED AND INSTALLED BY THE OWNER
34	TRAY HOLDER			1	FURNISHED AND INSTALLED BY THE OWNER
35	FILLER PANEL	33"X26"X27"			FURNISHED AND INSTALLED BY THE CONTRACTOR
36	UNDERCOUNTER BAR REFRIGERATOR			1	FURNISHED AND INSTALLED BY THE OWNER
37	EYE WASH			1	FURNISHED BY FOOD SERVICE CONTRACTOR AND INSTALLED BY THE PLUMBING CONTRACTOR
38	BASE CABINET WITH 2 - ADJUSTABLE SHELVES	H-36" X D-26"		20	FURNISHED AND INSTALLED BY THE CONTRACTOR
39	TALL KITCHEN RACK	20"X24"		1	FURNISHED AND INSTALLED BY THE OWNER
40	TRAY HOLDER			1	FURNISHED AND INSTALLED BY THE OWNER



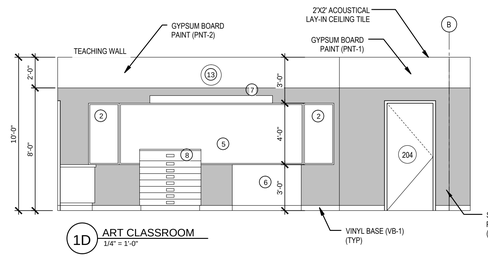
1A ART CLASSROOM
1/4" = 1'-0"



1B ART CLASSROOM
1/4" = 1'-0"



1C ART CLASSROOM
1/4" = 1'-0"



1D ART CLASSROOM
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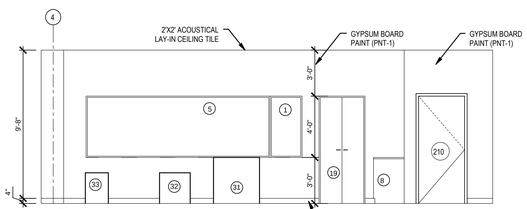

2A SCIENCE CLASSROOM
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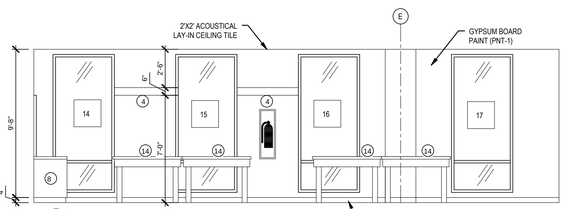
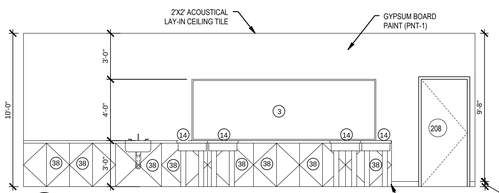


2B SCIENCE CLASSROOM
1/4" = 1'-0"



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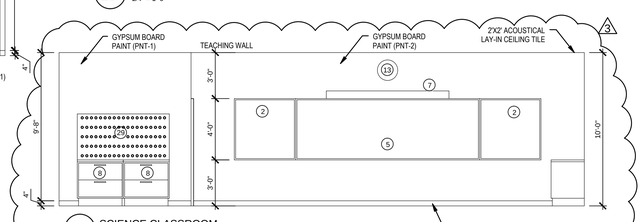
1/4" = 1'-0"



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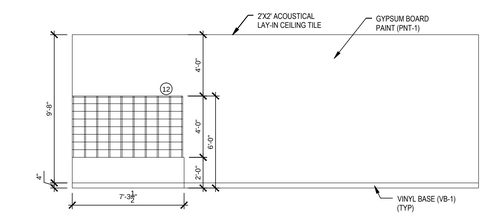

3A ADMIN - ELEVATION
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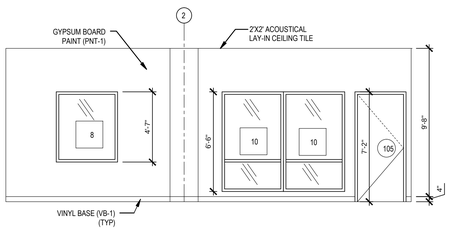

3B ADMIN - ELEVATION
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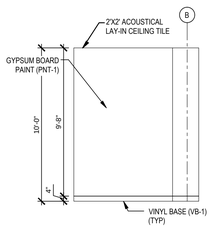
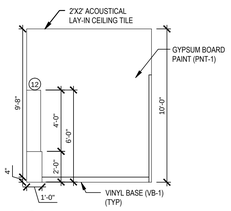


3C ADMIN - ELEVATION
1/4" = 1'-0"



3D ADMIN - ELEVATION
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NOTE:

SEE SHEET A14.1 & A14.2 FOR FINISHES
SEE SHEET AS.3 FOR SIGNAGE TYPES
SEE SHEET AS.5 FOR SIGNAGE PLACEMENT
SEE SHEET A2.1 FOR CEILING TYPES

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

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1	AOR PREVIEW	04.10.17
2	100% SD	04.24.17
3	SD TRANSFER	05.11.17
4	100% DD	06.02.17
5	60% CD	07.27.17
6	90% CD	09.07.17
7	ISSUED FOR BID	10.26.17
1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

Title

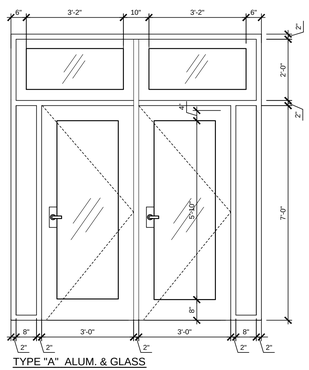
INTERIOR ELEVATIONS

Sheet

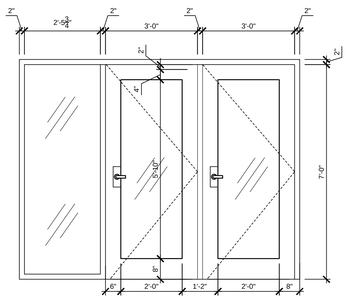
A8.4

1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"

DOOR TYPES



TYPE "A" ALUM. & GLASS TYPE 1 FRAME
SCALE: 1/2" = 1'-0"



TYPE "A" ALUM. & GLASS TYPE 2 FRAME
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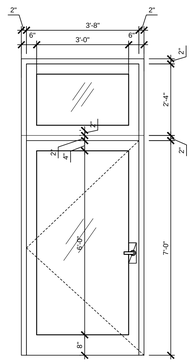
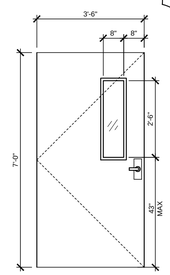
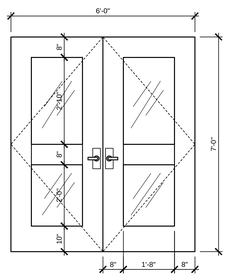


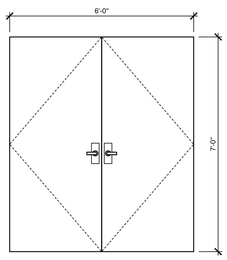
TYPE "B" ALUM. & GLASS DOOR & TYPE 3 FRAME
SCALE: 1/2" = 1'-0"



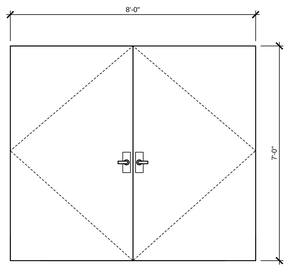
TYPE "C" HOLLOW METAL DOOR
SCALE: 1/2" = 1'-0"



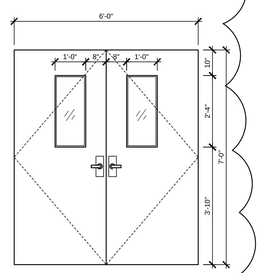
TYPE "D" HOLLOW METAL DOOR
SCALE: 1/2" = 1'-0"



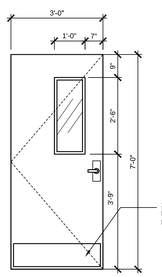
TYPE "E" HOLLOW METAL DOOR
SCALE: 1/2" = 1'-0"



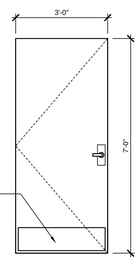
TYPE "F" HOLLOW METAL DOOR
SCALE: 1/2" = 1'-0"



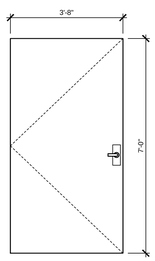
TYPE "G" SOLID CORE HM.(FIRE RATED) DOOR
SCALE: 1/2" = 1'-0"



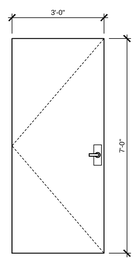
TYPE "H" WOOD DOOR
SCALE: 1/2" = 1'-0"



TYPE "J" WOOD DOOR
SCALE: 1/2" = 1'-0"



TYPE "K" HOLLOW METAL DOOR
SCALE: 1/2" = 1'-0"



TYPE "L" HOLLOW METAL DOOR
SCALE: 1/2" = 1'-0"

DOOR AND FRAME SCHEDULE

LEVEL	DOOR #	USE	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	FRAME TYPE	FRAME MATERIAL	FIRE RATING	HDWR	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	REFERENCED NOTES	Phase Created
GRADE	100A	ENTRY	A	AL/GLASS	3'-0"	7'-0"	1 3/4"	1	AL		50		1-A10.1.1			New Construction
GRADE	100B	ENTRY	A	AL/GLASS	3'-0"	7'-0"	1 3/4"	1	AL		51		1-A10.1.1			New Construction
GRADE	101A	ENTRY VESTIBULE	A	AL/GLASS	3'-0"	7'-0"	1 3/4"	2	AL		52		2-A10.1.1			New Construction
GRADE	101B	ENTRY VESTIBULE	A	AL/GLASS	3'-0"	7'-0"	1 3/4"	2	AL		51		2-A10.1.1			New Construction
FIRST FLOOR - EXIST.	102A	LINK VESTIBULE	G	SC.HM.	6'-0"	7'-0"	1 3/4"	6	HM	3 HR	65		5-A10.1.1			New Construction
FIRST FLOOR - EXIST.	102B	LINK	G	SC.HM.	6'-0"	7'-0"	1 3/4"	6	HM	3 HR	65		6-A10.1.1			New Construction
GRADE	103	ELEV. VESTIBULE	H	SC.HM.	3'-0"	7'-0"	1 3/4"	4	HM	3 HR	53		9-A10.1.1			New Construction
GRADE	104	BLDG. ENGINEER	L	HM	3'-0"	7'-0"	1 3/4"	4	HM		54		11-A10.1.1			New Construction
GRADE	105	ADMINISTRATION	H	WD	3'-0"	7'-0"	1 3/4"	4	HM	45 MIN.	59		7-A10.1.1			New Construction
GRADE	106	JAN. CLOSET	L	HM	3'-0"	7'-0"	1 3/4"	4	HM		56		11-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
GRADE	107	UNISEX STAFF TOI.	L	HM	3'-0"	7'-0"	1 3/4"	4	HM		62		11-A10.1.1			New Construction
GRADE	108	MECHANICAL ROOM	K	HM	3'-8"	7'-0"	1 3/4"	8	HM		57		7-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
GRADE	111	ELECTRICAL ROOM	K	HM	3'-8"	7'-0"	1 3/4"	8	HM	90 MIN.	58		7-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
GRADE	112	COMP. CLASSROOM	H	HM	3'-0"	7'-0"	1 3/4"	4	HM	45 MIN.	60		11-A10.1.1			New Construction
GRADE	113	TABLE STORAGE	G	HM	6'-0"	7'-0"	1 3/4"	6	HM	90 MIN.	55		11-A10.1.1			New Construction
GRADE	114A	DINING EXIT	D	HM/GLASS	6'-0"	7'-0"	1 3/4"	6	HM		63		11-A10.1.1			New Construction
GRADE	114B	DINING EXIT	D	HM/GLASS	6'-0"	7'-0"	1 3/4"	6	HM		63		11-A10.1.1			New Construction
GRADE	114C	DINING EXIT	B	HM/GLASS	4'-0"	10'-6"	1 3/4"	3	HM		50		3-A10.1.1			New Construction
GRADE	115A	SERVERY EXIT	E	HM	6'-0"	7'-0"	1 3/4"	6	HM		64		12-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
GRADE	115B	SERVERY EXIT	E	HM	6'-0"	7'-0"	1 3/4"	6	HM		64		12-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
GRADE	115C	SERVERY EXIT	E	HM	6'-0"	7'-0"	1 3/4"	6	HM		64		12-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
GRADE	115D	SERVERY EXIT	F	HM	8'-0"	7'-0"	1 3/4"	7	HM		66		4-A10.1.1			New Construction
GRADE	117	TOILET	L	HM	3'-0"	7'-0"	1 3/4"	4	HM		62		16-A10.1.1			New Construction
GRADE	118	OFFICE	H	WD	3'-0"	7'-0"	1 3/4"	4	HM		61		14-A10.1.1			New Construction
GRADE	119	STORAGE	J	HM	3'-0"	7'-0"	1 3/4"	4	HM		54		14-A10.1.1			New Construction
GRADE	120	REAR EXIT	C	HM	3'-6"	7'-0"	1 3/4"	5	HM		67		4-A10.1.1			New Construction
GRADE	121	STAIRWAY EXIT	E	HM	6'-0"	7'-0"	1 3/4"	6	HM		66		4-A10.1.1			New Construction
GRADE	122	EXISTING GYMNASIUM	G	SC.HM.	6'-0"	7'-0"	1 3/4"	6	HM	45 MIN.	68					Existing Construction
2ND FLOOR																Existing Construction
2ND FLOOR - NEW	201A	2ND FLOOR LINK VESTIBULE	G	SC.HM.	6'-0"	7'-0"	1 3/4"	6	HM	3 HR	69		10-A10.1.1			
2ND FLOOR - NEW	201B	2ND FLOOR LINK	G	SC. HM.	6'-0"	7'-0"	1 3/4"	6	HM	3 HR	69		6-A10.1.1			New Construction
2ND FLOOR - NEW	204	ART CLASSROOM	H	WD	3'-0"	7'-0"	1 3/4"	4	HM	45 MIN.	60		10-A10.1.1			New Construction
2ND FLOOR - NEW	205	BUILDING STORAGE	J	WD	3'-0"	7'-0"	1 3/4"	4	HM	90 MIN.	57		8-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
2ND FLOOR - NEW	206	ART CLOSET	J	WD	3'-0"	7'-0"	1 3/4"	4	HM		54		10-A10.1.1			New Construction
2ND FLOOR - NEW	207	KILN	J	WD	3'-0"	7'-0"	1 3/4"	4	HM	90 MIN.	58		10-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
2ND FLOOR - NEW	208	CLOSET	J	WD	3'-0"	7'-0"	1 3/4"	4	HM		54		10-A10.1.1			New Construction
2ND FLOOR - NEW	209	MDF ROOM	H	WD	3'-0"	7'-0"	1 3/4"	4	HM	90 MIN.	57		10-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
2ND FLOOR - NEW	210	SCIENCE CLASSROOM	H	WD	3'-0"	7'-0"	1 3/4"	4	HM	45 MIN.	60		10-A10.1.1			New Construction
2ND FLOOR - NEW	211A	LIBRARY	H	WD	3'-0"	7'-0"	1 3/4"	4	HM	45 MIN.	60		10-A10.1.1			New Construction
2ND FLOOR - NEW	211B	LIBRARY	H	WD	3'-0"	7'-0"	1 3/4"	4	HM	45 MIN.	60		10-A10.1.1			New Construction
2ND FLOOR - NEW	212	CLASSROOM	H	WD	3'-0"	7'-0"	1 3/4"	4	HM	45 MIN.	60		10-A10.1.1			New Construction
2ND FLOOR - NEW	213	ELEVATOR MACHINE ROOM	J	SC.HM.	3'-0"	7'-0"	1 3/4"	4	HM	3 HR	58		8-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction
2ND FLOOR - NEW	214	EXIT STAIRWAY	E	HM	6'-0"	7'-0"	1 3/4"	6	HM	90 MIN.	70		8-A10.1.1		LOCKSET TO HAVE KNURLED HARDWARE	New Construction

NOTE:

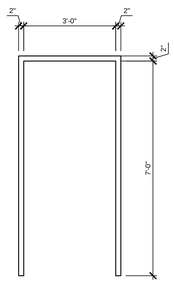
- ALL DOORS TO BE KEYLESS IN THE DIRECTION OF EGRESS TO COMPLY WITH SECTION 13-160-260 OF CHICAGO BUILDING CODE

- ALL DOORS TO HAVE LEVER HARDWARE HANDLES TO COMPLY WITH ADA/IAC

- ALL GLASS TO BE TEMPERED GLASS TO MATCH REQUIRED FIRE RATING AS PER SPECIFICATION (U.N.O.)

- ALL HEADS OF EXTERIOR DOOR OPENINGS TO HAVE A NON PERMEABLE AIR BARRIER, THROUGH WALL FLASHING, END DAMS, WEEPS, MORTAR DEFLECTION NETTING WITH A STAINLESS STEEL DRIP EDGE SET IN BUTYL SEALANT.

DOOR FRAME TYPES



TYPE "4" (RATED FRAME)
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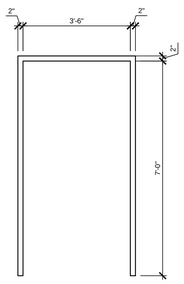

TYPE "5" (RATED FRAME)
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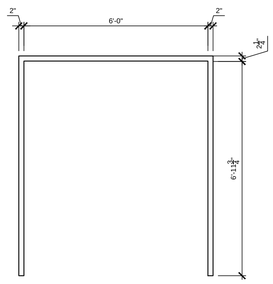

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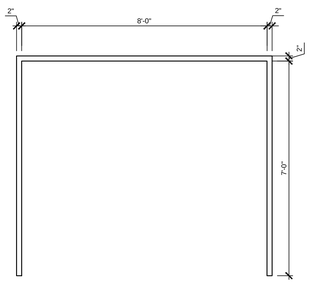

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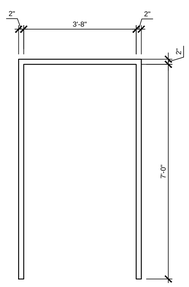

TYPE "8" (RATED FRAME)
SCALE: 1/2" = 1'-0"

PUBLIC BUILDING COMMISSION — Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

1865 WEST MONTVALE AVE.
CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:

ONYX Architectural Services Inc.

ADDRESS: 750 N. FRANKLIN #207
Chicago, Illinois 60654
PHONE: 312-787-2748
FAX: 312-787-2857
WEB: www.onyxchicago.com

Design Architect:

LEGAT ARCHITECTS
SUSTAINABILITY | PERFORMANCE | DESIGN

ADDRESS: 651 W Washington Blvd. #1
Chicago, Illinois 60661
PHONE: 312.258.9595
FAX: 312.258.1555
WEB: www.legat.com

KMI Engineering
223 W. Jackson Blvd, #1010
Chicago, IL
Structural Design Engineers

Terra Engineering LTD.
225 W. Ohio St, 4th Flr
Chicago, IL
Civil Design Engineers

Dynacepts Engineering, LTD
2250 East Devon Ave. Suite 218
Des Plaines, IL
MEPFP Design Engineers

Planning Resources, Inc.
402 W. Liberty Drive
Wheaton, IL
Landscape Architects

Mackesy and Associates
321 N Clark St, #500
Chicago, IL
Food Service Design Consultant

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Issuance

MARK	DESCRIPTION	DATE
1	AOR PREVIEW	04.10.17
2	100% SD	04.24.17
3	SD TRANSFER	05.11.17
4	100% DD	06.02.17
5	60% CD	07.27.17
6	90% CD	09.07.17
7	ISSUED FOR BID	10.26.17
1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

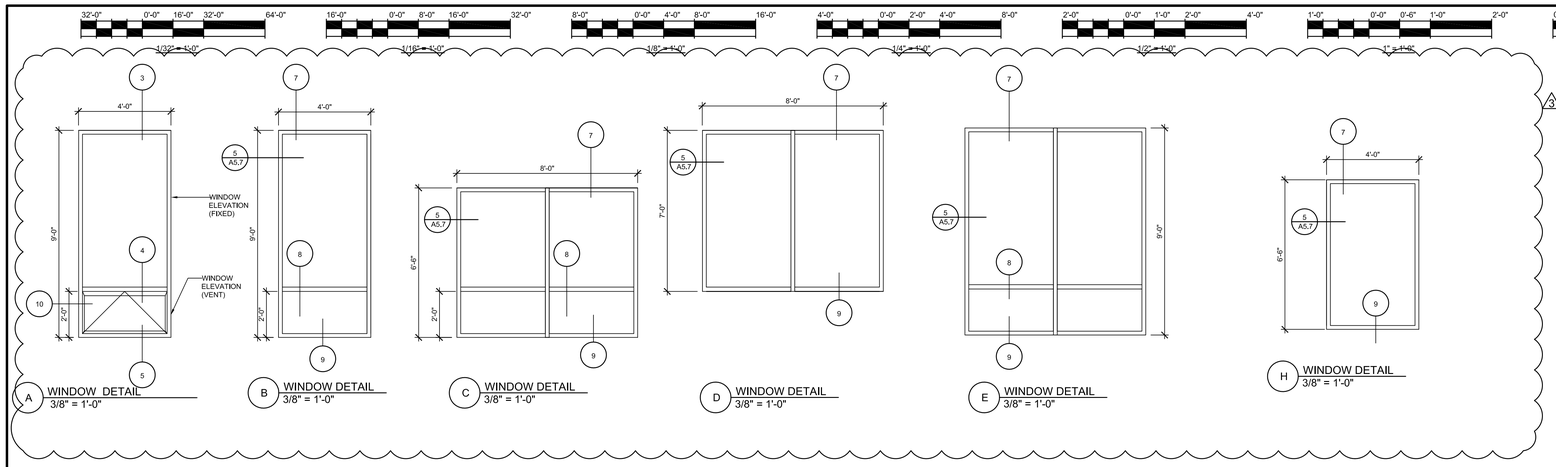
ONYX Project No: 17005

Title

DOOR SCHEDULE

Sheet

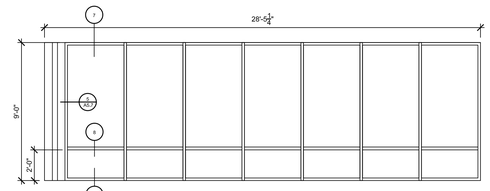
A10.1



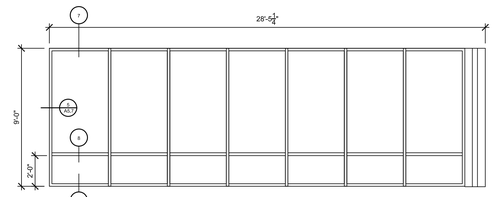
WINDOW SCHEDULE

LEVEL	MARK	WIDTH	HEIGHT	TYPE		COMMENTS
FIRST FLOOR - NEW	1	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION AND PROTECTION SCREEN
FIRST FLOOR - NEW	2	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION AND PROTECTION SCREEN
FIRST FLOOR - NEW	3	12' - 0"	9' - 0"	B	ALUM. STORE FRONT WINDOW SYSTEM	FIXED WINDOW SYSTEM INCLUDES PROTECTION SCREEN
FIRST FLOOR - NEW	4	16' - 0"	9' - 0"	B	ALUM. STORE FRONT WINDOW SYSTEM	FIXED WINDOW SYSTEM INCLUDES PROTECTION SCREEN
FIRST FLOOR - NEW	5	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION AND PROTECTION SCREEN
FIRST FLOOR - NEW	6	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION AND PROTECTION SCREEN
FIRST FLOOR - NEW	7	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION AND PROTECTION SCREEN
FIRST FLOOR - NEW	8	4' - 0"	6'-6"	H	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION AND PROTECTION SCREEN
FIRST FLOOR - NEW	9	8' - 0"	7' - 0"	D	ALUM. STORE FRONT WINDOW SYSTEM	FIXED WINDOW SYSTEM
FIRST FLOOR - NEW	10	8' - 0"	6'-6"	C	AW - 60 ALUM. WINDOW SYSTEM	FIXED WINDOW SYSTEM
2ND FLOOR - NEW	11	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	12	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	13	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	14	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	15	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	16	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	17	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	18	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM, 4' X 6' EXTENDED MULLION
2ND FLOOR - NEW	19	12' - 0"	9' - 0"	E	ALUM. STORE FRONT WINDOW SYSTEM	FIXED WINDOW SYSTEM INCLUDES , 8' X 6" EXTENDED MULLION

NOTE: ALL GLASS TO COMPLY WITH SECTION 13-124-350 OF CHICAGO BUILDING CODE



F WINDOW DETAIL 1/4" = 1'-0"

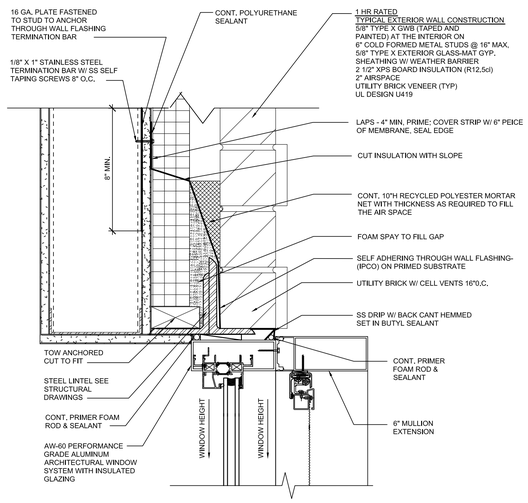


G WINDOW DETAIL 1/4" = 1'-0"

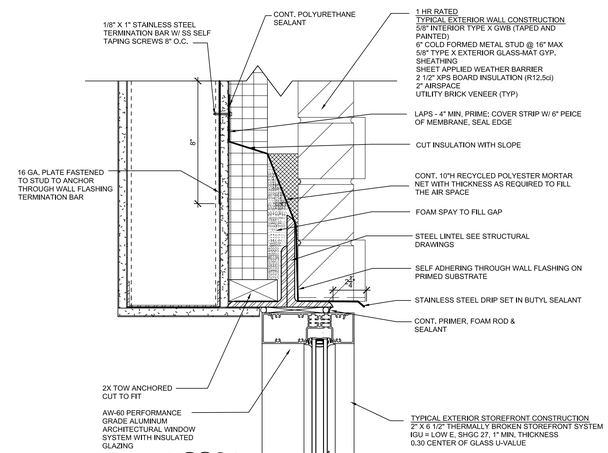
WINDOW SCHEDULE

LEVEL	MARK	WIDTH	HEIGHT	TYPE		COMMENTS
2ND FLOOR - NEW	20	28' - 0"	9' - 0"	F	ALUM. STORE FRONT WINDOW SYSTEM	FIXED WINDOW SYSTEM INCLUDES , 28' X 6" EXTENDED MULLION
2ND FLOOR - NEW	21	28' - 0"	9' - 0"	G	ALUM. STORE FRONT WINDOW SYSTEM	FIXED WINDOW SYSTEM INCLUDES , 28' X 6" EXTENDED MULLION
2ND FLOOR - NEW	22	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	23	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	24	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	25	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	26	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	27	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	28	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	29	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	30	4' - 0"	9' - 0"	A	AW - 60 ALUM. WINDOW SYSTEM	WINDOW SYSTEM INCLUDES BOTTOM AWNING SYSTEM AND 4' X 6" EXTENDED MULLION
2ND FLOOR - NEW	31	8' - 0"	9' - 0"	E	ALUM. STORE FRONT WINDOW SYSTEM	FIXED WINDOW SYSTEM
2ND FLOOR - NEW	32	4' - 0"	9' - 0"	B	AW - 60 ALUM. WINDOW SYSTEM	FIXED WINDOW SYSTEM
2ND FLOOR - NEW	33	4' - 0"	9' - 0"	B	AW - 60 ALUM. WINDOW SYSTEM	FIXED WINDOW SYSTEM INCLUDES , 8' X 6" EXTENDED MULLION

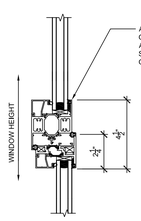
ALL HEADS AND SILLS OF EXTERIOR WINDOW OPENINGS TO HAVE A NON PERMEABLE AIR BARRIER, THROUGH WALL FLASHING, END DAMS, WEEPS, MORTAR DEFLECTION NETTING WITH A STAINLESS STEEL DRIP EDGE SET IN BUTYL SEALANT.



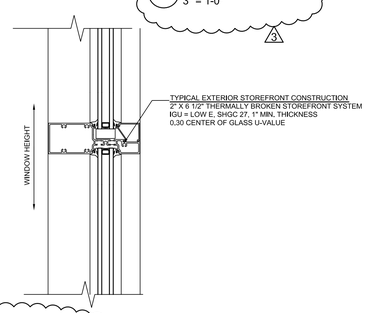
3 FIXED HEAD 3" = 1'-0"



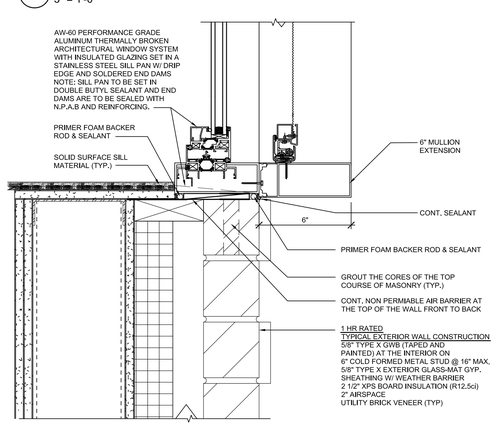
7 FIXED HEAD DETAIL 3" = 1'-0"



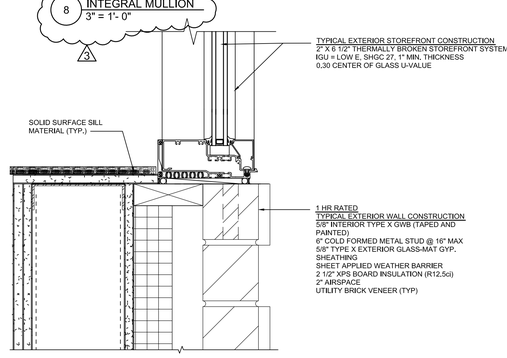
4 HORIZ. INTEGRAL MULLION 3" = 1'-0"



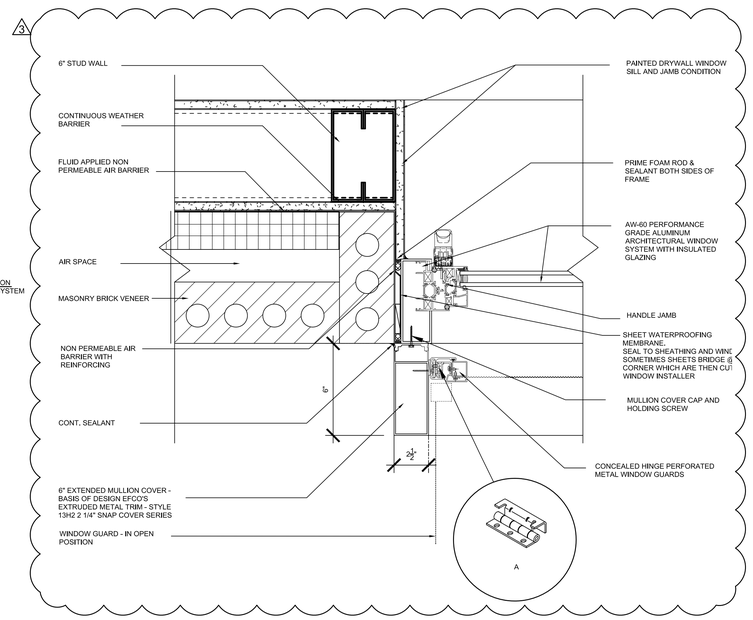
8 INTEGRAL MULLION 3" = 1'- 0"



5 VENT SILL 3" = 1'-0"



9 FIXED SILL DETAIL 3" = 3'- 0"



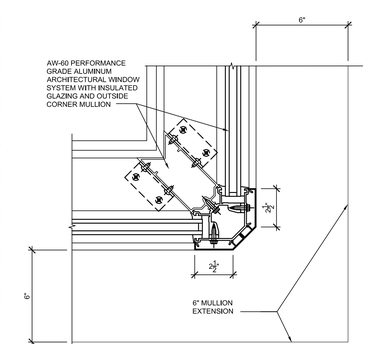
10 WINDOW JAMB DETAIL 3" = 1'-0"

ACCESSIBLE WINDOW NOTES

WHEN OPERABLE WINDOWS ARE PROVIDED FOR OPERATION BY THE OCCUPANTS, AT LEAST ONE WINDOW IN EACH ROOM SHALL BE ACCESSIBLE, EXCEPT BATHROOMS, KITCHENS, CORRIDORS AND STAIRWAYS, IN ACCORDANCE WITH THE CHICAGO BUILDING CODE, CHAPTER 18-11-1109,13,1 AND THE

FOLLOWING CRITERIA:

1. THERE SHALL BE AN ACCESSIBLE ROUTE TO THE WINDOW.
2. THE REACH RANGE TO OPERATING CONTROLS AND OPERATING MECHANISMS (OPERABLE SASH0 SHALL BE WITHIN 15" TO 48" ABOVE THE FINISHED FLOOR.
3. ALL CONTROLS AND OPERABLE MECHANISMS (FORCE REQUIRED TO OPERATE SASH) NOT TO EXCEED 5 LBS. OF FORCE TO OPERATE.
4. PROVIDE ADA DECAL AT ACCESSIBLE OPERABLE WINDOWS.



11 CORNER MULLION DETAIL 3" = 1'-0"

PUBLIC BUILDING COMMISSION — Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

1865 WEST MONTVALE AVE.
CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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Chicago, IL
Civil Design Engineers

Dynacepts Engineering, LTD
2250 East Devon Ave. Suite 218
Des Plaines, IL
MEPFP Design Engineers

Planning Resources, Inc.
402 W. Liberty Drive
Wheaton, IL
Landscape Architects

Mackesy and Associates
321 N Clark St, #500
Chicago, IL
Food Service Design Consultant

WARNING:
ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS-MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKEWR OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS

Issuance

MARK	DESCRIPTION	DATE
1	AOR PREVIEW	04,10,17
2	100% SD	04,24,17
3	SD TRANSFER	05,11,17
4	100% DD	06,02,17
5	60% CD	07,27,17
6	90% CD	09,07,17
7	ISSUED FOR BID	10,26,17
1	ADDENDUM NO. 1	11,14,17
3	ADDENDUM NO. 3	11,30,17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

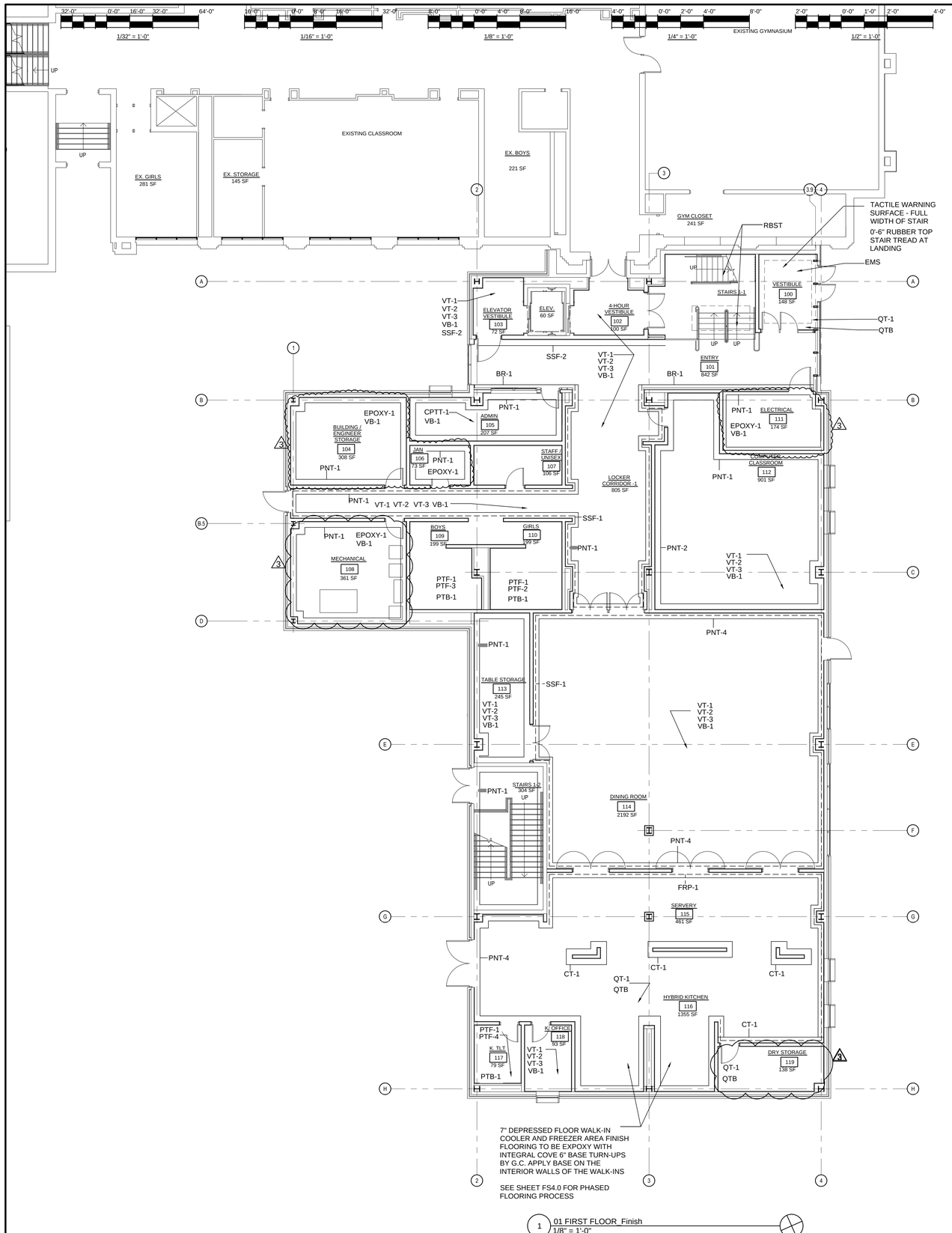
ONYX Project No: 17005

Title

WINDOW SCHEDULE

Sheet

A10.2



1 01 FIRST FLOOR_Finish
1/8" = 1'-0"

SYMBOL LEGEND

⟷ MATERIAL DIRECTION

FINISH LEGEND

CPTT-1 CARPET TILE (FIELD)	MANUF: TANDUS CENTIVA STYLE: CACHE TWEED A0002 COLOR: SHADOW GRIS 42710 SIZE: 24" X 24" INSTALLATION	PNT-4 ACCENT PAINT	MANUF: BENJAMIN MOORE COLOR: HC-4 HOWTHORNE YELLOW
CPTT-2 CARPET TILE (ACCENT)	MANUF: TANDUS CENTIVA STYLE: LOOP STITCH A0005 COLOR: 1B12A BREEZE 42719 SIZE: 24" X 24" INSTALLATION	QT QUARRY FLOOR TILE	MANUF: DALTILE STYLE: QUARRY TILE COLOR: OT04 ASHEN GREY (ABRASIVE FINISH) SIZE: 6" X 6"
PTF-1 PORCELAIN TILE FLOOR (FIELD)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D200 GRAY SPECKLE SIZE: 2" X 2"	QTB QUARRY COVE BASE TILE	4 MANUF: DALTILE STYLE: QUARRY TILE COLOR: OT04 ASHEN GREY SIZE: 5" X 6"
PTF-2 PORCELAIN TILE FLOOR (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D090 PUMPKIN SPICE SIZE: 2" X 2"	VB-1 VINYL BASE	MANUF: JOHNSONITE STYLE: TRADITIONAL COLOR: 469 MYSTIFY SIZE: 4"
PTF-3 PORCELAIN TILE FLOOR (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D023 GALAXY SIZE: 2" X 2"	RBST RUBBER STAIR TREAD WITH INTEGRATED RISER	MANUF: JOHNSONITE STYLE: SPECKLED HAMMERED SURFACE TO INCLUDE VISUALLY IMPAIRED STRIPS COLOR: LB 8 VORTEX
3 PTF-4 PORCELAIN TILE BUILT UP BASE (FIELD) NOT USED	MANUF: DALTILE STYLE: KEYSTONE COLOR: D044 DEEP PURPLE SIZE: 2" X 2"	RSF-V ROLLER SHADE VINYL FABRIC	MANUF: MECHOSHADE STYLE: OPAQUE VINYL COATED COLOR: ALABASTER 0102
PTB-1 PORCELAIN TILE BUILT UP BASE (FIELD)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D200 GRAY SPECKLE SIZE: 2" X 2"	SSF-1 SOLID SURFACE	MANUF: WILSON ART COLOR: 9194TM STEEL GREY TEMPEST (COUNTER TOP & BACK SPLASH)
PTW-1 PORCELAIN TILE WALL (FIELD)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D037 PEPPER WHTE SIZE: 2" X 2"	SSF-2 SOLID SURFACE	MANUF: WILSON ART COLOR: 9116GS SOOTHING GREY (WAINSCOTING)
PTW-2 PORCELAIN TILE WALL (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D090 PUMPKIN SPICE SIZE: 2" X 2"	TC TOILET COMPARTMENTS	MANUF: ASI ACCURATE STYLE: FLOOR ANCHORED / OVERHEAD BRACED FINISH: COLOR-THRU PHENOLIC COLOR: GRAY MIST 34506
PTW-3 PORCELAIN TILE WALL (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D023 GALAXY SIZE: 2" X 2"	VT-1 VINYL TILE	MANUF: JOHNSONITE STYLE: IQ OPTIMA COLOR: EBONY ASH #3242242 SIZE: 24" X 24" STATIC DISSIPATIVE TILE TO BE USED IN MDF ROOM
PTW-4 PORCELAIN TILE WALL (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D044 DEEP PURPLE SIZE: 2" X 2"	VT-2 VINYL TILE	MANUF: JOHNSONITE STYLE: IQ OPTIMA COLOR: EBONY ASH #3242242 SIZE: 24" X 24" STATIC DISSIPATIVE TILE TO BE USED IN MDF ROOM
CT-1 CERAMIC TILE	MANUF: DALTILE STYLE: NATURAL HUES ON ECO-BODY COLOR: DAISY QH97 SIZE: 2" X 2"	VT-3 VINYL TILE	MANUF: JOHNSONITE STYLE: IQ OPTIMA COLOR: POPULBAY #3242857 SIZE: 24" X 24" STATIC DISSIPATIVE TILE TO BE USED IN MDF ROOM
BR-1 BRICK WALL	MANUF: BELDEN STYLE: 470+479 DARK SMOOTH	WOOD DOORS	FINISH TO MATCH: PLAM-2
EMS ENTRANCE MAT SYSTEM WITH RUBBER INSERTS	MANUF: C/S SYSTEMS STYLE: PEDITRED-LP G3 WITH LEVEL BASE FRAME	EPOXY -1	MANUF: MULTI LAYER PAINTED EPOXY FLOOR
MT METAL TRANSITION	MANUF: SCHLUTER COLOR: SATIN ANODIZED ALUMINUM SLIVER SIZE: TO BE DETERMINED	AWP-1	MANUF: ARMSTORNG STYLE: SOUNDSOAK ACOUSTICAL WALL SYSTEM (NRC 0.80) COLOR: SOUNDSOAK 85 - METALLATION IN METALLATION STAINLESS
FRP WALL PANELS	MANUF: MARLITE STYLE: STANDARD FRP SIZE: 4'W X 8'H COLOR: S490N LIGHT GRAY		
PLAM-1 PLASTIC LAMINATE	MANUF: WILSONART COLOR: COMIC STRANZ #4941K-18 (CABINETS)		
PLAM-2 PLASTIC LAMINATE	MANUF: WILSONART COLOR: WILLIAMSBURG CHERRY #7936K-07		
PNT-1 FIELD PAINT	MANUF: BENJAMIN MOORE COLOR: #1597 PEBBLE BEACH		
PNT-2 ACCENT PAINT	MANUF: BENJAMIN MOORE COLOR: #1678 BLUE NOSE		
PNT-3 ACCENT PAINT	MANUF: BENJAMIN MOORE COLOR: #1549 BALBOA MIST		

FLOOR FINISH LEGEND

- VINYL TILE (VT-1)
- VINYL TILE (VT-2)
- VINYL TILE (VT-3)
- CARPET TILE (CPTT-1)
- CARPET TILE (CPTT-2)
- QUARRY TILE (QT)
- ENTRANCE MAT (EMS)
- SEALED CONCRETE W/ EPOXY PAINT COATING

GENERAL FINISH NOTES

1. REFER TO THE FINISH PLAN LEGEND FOR MATERIAL AND COLOR INFORMATION. ALSO REFER TO THE PROJECT MANUAL.
2. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND CEILING HEIGHTS.
3. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE WINDOW SHADE SYSTEM AT ALL NEW EXTERIOR WINDOWS EXCEPT THOSE IN CORRIDORS AND STAIRS AND UNLESS NOTED OTHERWISE.
5. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
6. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
7. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.
8. IN ALL RENOVATED AREAS ALL WALLS SHALL BE PAINTED PNT-1 U.N.O. ALL NEW WALLS SHALL BE PAINTED PNT-1 UNLESS NOTED OTHERWISE.
9. BRICK WALLS SHALL NOT BE PAINTED. U.N.O.
10. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLANS FOR PORCELAIN TILE WALL PATTERN INFORMATION.
11. USE VERTICAL METAL EDGE TRANSITIONS IN CERAMIC TILE WALL OUTSIDE CORNERS AND/OR IN CERAMIC TILE WALL EXPOSED EDGES.
12. DO NOT INSTALL VINYL BASE ON TOP OF CERAMIC WALL TILE OR SOILD SURFACE. (U.N.O.)
13. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION
14. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-F (IPS-X) U.N.O. IN FINISH DRAWINGS
15. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.
16. ELECTRICAL PANELS, MECHANICAL GRILLES, LOUVERS, AND ANY OTHER MISCELLANEOUS, UNFINISHED ITEMS INSTALLED IN WALL SURFACES OF CORRIDORS AND OCCUPIED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
17. METAL ACCESS LADDERS TO BE PAINTED PNT-1 U.N.O.
18. REFER TO FINISH PLANS FOR PLASTIC LAMINATE (PLAM) AND SOLID SURFACE (SSF) COLOR DESIGNATIONS
19. 4"H STRAIGHT VINYL BASE TO BE USED FOR ALL CARPET TILE LOCATIONS (U.N.O.)
20. 4"H COVED VINYL BASE TO BE USED FOR ALL RESILIENT FLOORING LOCATIONS (U.N.O.)
21. INSTALL VINYL COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.)
22. ALL SEALED CONCRETE FLOORS SHALL HAVE VINYL BASE (U.N.O.).
23. CARPET TILE (CPTT) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.
24. REFER TO SPECIFICATIONS FOR RESILIENT TRANSITIONS (RT) PROFILES.
25. ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
26. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
27. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
28. PROVIDE VAPOR BARRIER SEALER ON CONCRETE SURFACES AT ALL AREAS TO RECEIVE CARPET AND/OR RESILIENT FLOORING.
29. PRIOR TO THE INSTALLATION OF NEW ADHESIVES OVER CONCRETE SUBSTRATES PRIOR TO THE INSTALLATION OF FLOOR COVERING SYSTEMS. APPLY A LIGHT-COLORED HIGH STRENGTH ACRYLIC POLYMER COMPOUND (AQUEOUS FLOOR SEALER) TO ISOLATE AND CUT BACK OLD ADHESIVE FLOOR RESIDUES. ACRYLIC POLYMER COMPOUND TO BE SOLVENT FREE AND TO CONTAIN "ZERO" CALCULATED VOC'S. BASIS OF DESIGN XL BRANDS "TRISEAL". FOLLOW MANUFACTURERS RECOMMENDATION FOR INTENDED APPLICATION.
30. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
31. WHERE "PATCH AND REPAIR" IS REQUIRED DUE TO NEW CONSTRUCTION IN EXISTING AREAS WHERE NO WORK IS SCHEDULED TO BE PERFORMED "PATCH AND REPAIR" FINISHES TO MATCH ADJACENT EXISTING FINISH, COLOR, TEXTURE AND SHEEN.
32. IN ALL EXISTING AREAS SCHEDULED TO BE RENOVATED, REPLACE ALL EXISTING ELECTRICAL WALL COVER PLATES AND DEVICES. ALL NEW ELECTRICAL COVER PLATES AND DEVICES TO BE STAINLESS STEEL.
33. ANY DAMAGE TO EXISTING SURFACES DUE TO SCHEDULED DEMOLITION AND/OR TO ACCOMMODATE DIVISION 22, 23, 26, 27 & 28 SCOPE OF WORK INCLUDED IN THIS PACKAGE SHALL BE REPAIRED. THOUGH NOT EXPRESSLY NOTED "PATCH AND REPAIR", IT IS INTENDED THAT THE WORK BE PERFORMED.
34. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.
35. REFER TO SPECIFICATIONS FOR ELEVATOR FINISHES.
36. WHERE INDICATED "SOLID SURFACE WAINSCOT / TRIM" SOLID SURFACE (SSF) WAINSCOT TO BE FROM 0'-0" AFF TO 8'-0" AFF. PAINT (PNT) TO BE FROM 8'-0" TO TOP.

GENERAL FLOOR FINISH NOTES

1. AT ALL AREAS OF NEW FLOORING:
   - A. PROVIDE RUBBER TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS.
   - B. PROVIDE 4-INCH RUBBER BASE ON ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS.
   - C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE RESULTING FROM DEMOLITION PRIOR TO BEGINNING ANY WORK.
   - D. PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTRATE IN ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS PRIOR BEGINNING ANY WORK.
2. AT ALL AREAS OF NEW FLOORING IN EXISTING BUILDING:
   - A. EXISTING FLOORING AS INDICATED ON DRAWINGS MAY BE ASBESTOS CONTAINING AND SHALL BE REMOVED UNDER SEPARATE CONTRACT.
   - B. SHOT BLAST EXISTING CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   - C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE RESULTING FROM DEMOLITION PRIOR TO BEGINNING ANY WORK.
   - D. PROVIDE CEMENTITIOUS SELF-LEVELING FLOORING UNDERLAYMENT. PROVIDE TWO COATS WITH A COMBINED AVERAGE THICKNESS OF ¼-INCH.
   - E. UNDERCUT EXISTING WOOD DOORS LOCATED ON OR ADJACENT TO AREAS OF NEW FLOORING AS REQUIRED TO ENSURE PROPER OPERATION OF THE DOOR(S).
   - F. EXISTING THRESHOLDS TO REMAIN SHALL BE REMOVED AND REINSTALLED SO NEW FLOORING CAN BE INSTALLED UNDER THE EDGE OF THRESHOLDS.
3. PROVIDE RUBBER FLOOR SYSTEM IN ELEVATOR CAB.
4. AT EVERY STAIR GOING DOWN FROM FLOOR LEVELS PROVIDE 36" WIDE RUBBER TACTILE WARNING STRIP FOR FULL WIDTH OF STAIR. TACTILE WARNING STRIP NOT REQUIRED AT INTERMEDIATE LANDINGS UNLESS NOTED OTHERWISE.

GENERAL PAINTING NOTES

1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
   - A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE.
   - B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PAINTED.
   - C. SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED PAINTED.
2. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
   - A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.
   - B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT.
   - C. AT REPAIRS AND UNPAINTED GYPSUM BOARD AND/OR PLASTER PROVIDE PRIMER AND TWO FINISH COATS OF PAINT.
   - D. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3. IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSED MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.
4. AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL SIGHT-EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF DECK, STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC.
5. ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH UNLESS NOTED OTHERWISE.
6. AT STEEL DOORS AND STEEL FRAMES:
   - A. INTERIORS TO BE PAINTED PNT-F WITH SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE.
   - B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITECT WITH SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE.

GENERAL CEILING FINISH NOTES

1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION. AND CEILING PLANS FOR ACT INFORMATION.
3. WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT LIMITED TO, FRAMING, DECK, DUCTWORK, PIPING & CONDUIT. DO NOT PAINT H, V, E, FA, P LABELS, MOVING PARTS, OR COMPONENTS THAT ARE EXPECTED TO REMAIN UNPAINTED.
4. ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 (IPS-C) UNLESS NOTED OTHERWISE ON CEILING AND/OR FINISH PLANS.
5. GYPSUM BOARD CEILINGS IN SHOWER AREAS AND ENTRY VESTIBULES TO BE PAINTED PNT-1 (IPS-B)
6. IN ALL MAIN CUSTODIAL AREAS AND MECHANICAL ROOMS; STEEL, DECKING AND EXPOSED STRUCTURE AND DUCKWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED U.N.O. IN FINISH PLANS

INTERIOR PAINT SYSTEM

IPS-LF-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, FLAT
IPS-LE-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, EGGSHELL
IPS-LS-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, SEMI-GLOSS
IPS-D	DRY FALL, WATER-BASED, FLAT
IPS-AF	ALKYD, WATER-BASED, FLAT
IPS-AE	ALKYD, WATER-BASED, EGGSHELL
IPS-AS	ALKYD, WATER-BASED, SEMIGLOSS
IPS-AG	ALKYD, WATER-BASED, GLOSS
IPS-ES	EPOXY-MODIFIED LATEX, INTERIOR, SEMI-GLOSS
IPS-MIC	MULTICOLOR INTERIOR PAINT

BUILDING CODE GENERAL NOTES

1	ALL INTERIOR FINISHES TO COMPLY WITH SECTIONS 15-8-420 AND 15-8-400 OF CHICAGO BUILDING CODE. ALL NEW INTERIOR WALLS AND CEILING FINISHES SHALL BE CLASS WITH FLAME SPREAD RATING OF 0 TO 25 AND SMOKE DEVELOPED 200 MAX.
2	ALL INTERIOR FINISHES TO BE NON-COMBUSTIBLE AND COMPLY WITH SECTION 15-8-420, 15-8-940 OF CHICAGO BUILDING CODE.

PUBLIC BUILDING COMMISSION — Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

1865 WEST MONTVALE AVE.
CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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Landscape Architects

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1	ADDENDUM NO. 1	11.14.17
3	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

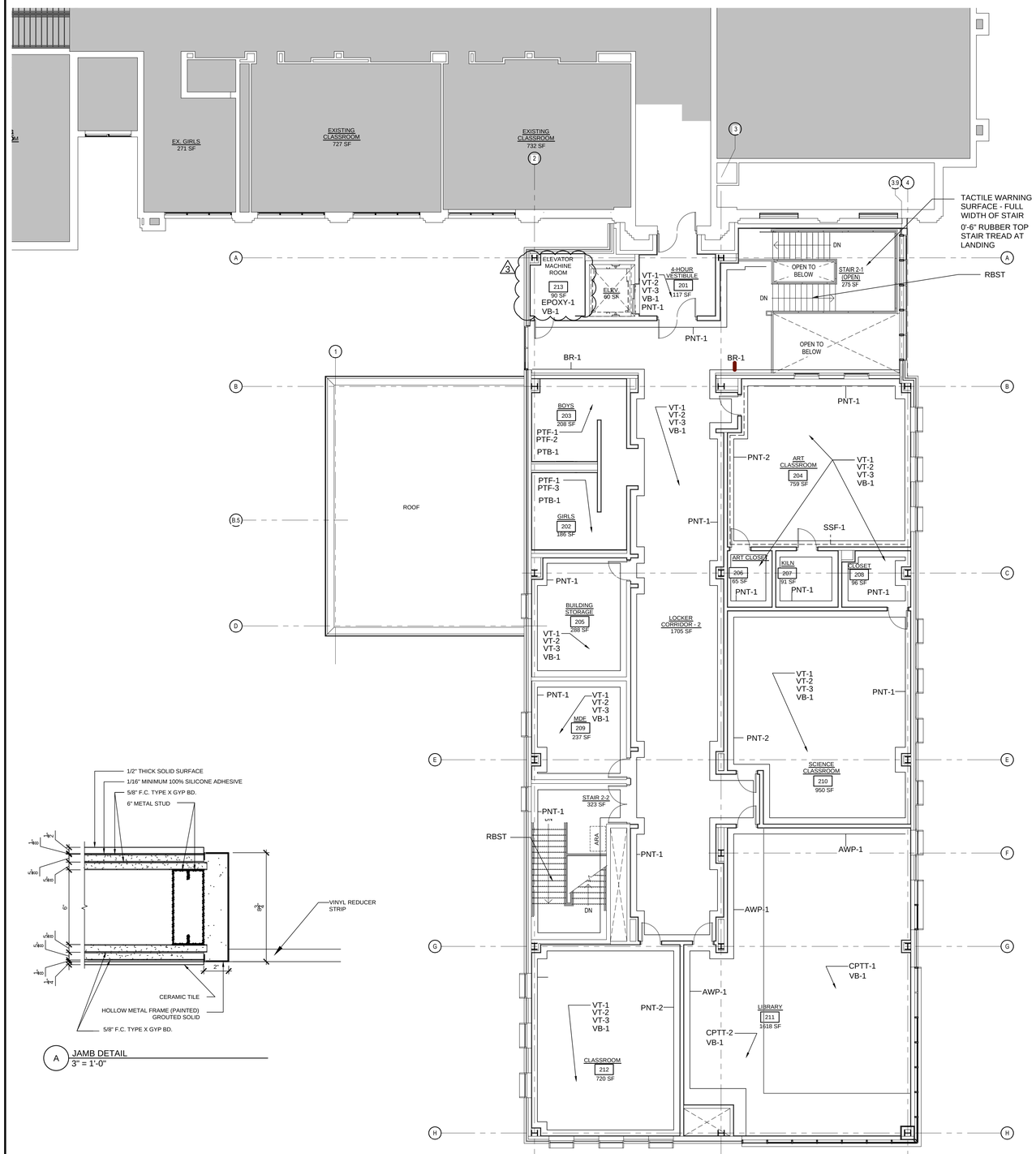
ONYX Project No: 17005

Title

FIRST FLOOR FINISH PLAN

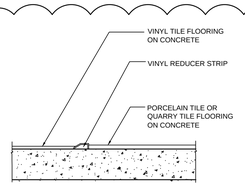
Sheet

A14.1

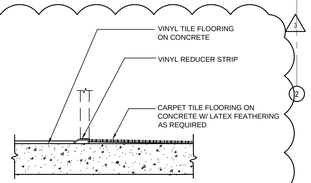


1 SECOND FLOOR PLAN
1/8" = 1'-0"

A JAMB DETAIL
3" = 1'-0"



2 TRANSITION DETAIL
1" = 1'-0"



3 TRANSITION DETAIL
1" = 1'-0"

SYMBOL LEGEND

⟷ MATERIAL DIRECTION

FINISH LEGEND

CPTT-1 CARPET TILE (FIELD)	MANUF: TANDUS CENTIVA STYLE: CACHE TWEED A0002 COLOR: SHADOW GRIS 42710 SIZE: 24" X 24" INSTALLATION	PNT-4 ACCENT PAINT	MANUF: BENJAMIN MOORE COLOR: HC-4 HOWTHORNE YELLOW
CPTT-2 CARPET TILE (ACCENT)	MANUF: TANDUS CENTIVA STYLE: LOOP STITCH A0005 COLOR: 1812A BREEZE 42719 SIZE: 24" X 24" INSTALLATION	QT QUARRY FLOOR TILE	MANUF: DALTILE STYLE: QUARRY TILE COLOR: OT04 ASHEN GREY (ABRASIVE FINISH) SIZE: 6" X 6"
PTF-1 PORCELAIN TILE FLOOR (FIELD)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D200 GRAY SPECKLE SIZE: 2" X 2"	QTB QUARRY COVE BASE TILE	4 MANUF: DALTILE STYLE: QUARRY TILE COLOR: OT04 ASHEN GREY SIZE: 5" X 6"
PTF-2 PORCELAIN TILE FLOOR (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D090 PUMPKIN SPICE SIZE: 2" X 2"	VB-1 VINYL BASE	MANUF: JOHNSONITE STYLE: TRADITIONAL COLOR: 469 MYSTIFY SIZE: 4"
PTF-3 PORCELAIN TILE FLOOR (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D023 GALAXY SIZE: 2" X 2"	RBST RUBBER STAIR TREAD WITH INTEGRATED RISER	MANUF: JOHNSONITE STYLE: SPECKLED. HAMMERED SURFACE TO INCLUDE VISUALLY IMPAIRED STRIPS COLOR: LB 8 VORTEX
4 PTF-4 PORCELAIN TILE BUILT UP BASE (FIELD)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D044 DEEP PURPLE SIZE: 2" X 2"	RSF-V ROLLER SHADE VINYL FABRIC	MANUF: MECHOSHADE STYLE: OPAQUE VINYL COATED COLOR: ALABASTER 0102
PTB-1 PORCELAIN TILE BUILT UP BASE (FIELD)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D200 GRAY SPECKLE SIZE: 2" X 2"	SSF-1 SOLID SURFACE	MANUF: WILSON ART COLOR: 9194TM STEEL GREY TEMPEST (COUNTER TOP & BACK SPLASH)
PTW-1 PORCELAIN TILE WALL (FIELD)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D037 PEPPER WHTE SIZE: 2" X 2"	SSF-2 SOLID SURFACE	MANUF: WILSON ART COLOR: 9116GS SOOTHING GREY (WAINSCOTING)
PTW-2 PORCELAIN TILE WALL (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D090 PUMPKIN SPICE SIZE: 2" X 2"	TC TOILET COMPARTMENTS	MANUF: ASI ACCURATE STYLE: FLOOR ANCHORED / OVERHEAD BRACED FINISH: COLOR-THRU PHENOLIC COLOR: GRAY MIST 34506
PTW-3 PORCELAIN TILE WALL (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D023 GALAXY SIZE: 2" X 2"	VT-1 VINYL TILE	MANUF: JOHNSONITE STYLE: IQ OPTIMA COLOR: EBONY ASH #3242242 SIZE: 24" X 24" STATIC DISSIPATIVE TILE TO BE USED IN MDF ROOM
PTW-4 PORCELAIN TILE WALL (ACCENT)	MANUF: DALTILE STYLE: KEYSTONE COLOR: D044 DEEP PURPLE SIZE: 2" X 2"	VT-2 VINYL TILE	MANUF: JOHNSONITE STYLE: IQ OPTIMA COLOR: EBONY ASH #3242242 SIZE: 24" X 24" STATIC DISSIPATIVE TILE TO BE USED IN MDF ROOM
CT-1 CERAMIC TILE	MANUF: DALTILE STYLE: NATURAL HUES ON ECO-BODY COLOR: DAISY QH97 SIZE: 2" X 2"	VT-3 VINYL TILE	MANUF: JOHNSONITE STYLE: IQ OPTIMA COLOR: POPUBAY #3242857 SIZE: 24" X 24" STATIC DISSIPATIVE TILE TO BE USED IN MDF ROOM
BR-1 BRICK WALL	MANUF: BELDEN STYLE: 470/479 DARK SMOOTH	WOOD DOORS	FINISH TO MATCH: PLAM-2
EMS ENTRANCE MAT SYSTEM WITH RUBBER INSERTS	MANUF: C/S SYSTEMS STYLE: PEDITRED LP G3 WITH LEVEL BASE FRAME	EPOXY -1	MANUF: MULTI LAYER PAINTED EPOXY FLOOR
MT METAL TRANSITION	MANUF: SCHLUTER COLOR: SATIN ANODIZED ALUMINUM SILVER SIZE: TO BE DETERMINED	AWP-1	MANUF: ARMSTORNG STYLE: SOUNDSOAK ACOUSTICAL WALL SYSTEM (NRC 0.80) COLOR: SOUNDSOAK 85 - METALLATION IN METALLATION STAINLESS
FRP WALL PANELS	MANUF: MARLITE STYLE: STANDARD FRP SIZE: 4'W X 8'H COLOR: S490N LIGHT GRAY		
PLAM-1 PLASTIC LAMINATE	MANUF: WILSONART COLOR: COMIC STRANZ #4941K-18 (CABINETS)		
PLAM-2 PLASTIC LAMINATE	MANUF: WILSONART COLOR: WILLIAMSBURG CHERRY #7936K-07		
PNT-1 FIELD PAINT	MANUF: BENJAMIN MOORE COLOR: #1597 PEBBLE BEACH		
PNT-2 ACCENT PAINT	MANUF: BENJAMIN MOORE COLOR: #1678 BLUE NOSE		
PNT-3 ACCENT PAINT	MANUF: BENJAMIN MOORE COLOR: #1549 BALBOA MIST		

FLOOR FINISH LEGEND

- VINYL TILE (VT-1)
- VINYL TILE (VT-2)
- VINYL TILE (VT-3)
- CARPET TILE (CPTT-1)
- CARPET TILE (CPTT-2)
- QUARRY TILE (QT)
- ENTRANCE MAT (EMS)
- SEALED CONCRETE W/ EPOXY PAINT COATING

GENERAL FINISH NOTES

1. REFER TO THE FINISH PLAN LEGEND FOR MATERIAL AND COLOR INFORMATION. ALSO REFER TO THE PROJECT MANUAL.
2. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND CEILING HEIGHTS.
3. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE WINDOW SHADE SYSTEM AT ALL NEW EXTERIOR WINDOWS EXCEPT THOSE IN CORRIDORS AND STAIRS AND UNLESS NOTED OTHERWISE.
5. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
6. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
7. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.
8. IN ALL RENOVATED AREAS ALL WALLS SHALL BE PAINTED PNT-1 U.N.O. ALL NEW WALLS SHALL BE PAINTED PNT-1 UNLESS NOTED OTHERWISE.
9. BRICK WALLS SHALL NOT BE PAINTED. U.N.O.
10. REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLANS FOR PORCELAIN TILE WALL PATTERN INFORMATION.
11. USE VERTICAL METAL EDGE TRANSITIONS IN CERAMIC TILE WALL OUTSIDE CORNERS AND/OR IN CERAMIC TILE WALL EXPOSED EDGES.
12. DO NOT INSTALL VINYL BASE ON TOP OF CERAMIC WALL TILE OR SOILD SURFACE. (U.N.O.)
13. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION
14. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-F (IPS-X) U.N.O. IN FINISH DRAWINGS
15. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.
16. ELECTRICAL PANELS, MECHANICAL GRILLES, LOUVERS, AND ANY OTHER MISCELLANEOUS, UNFINISHED ITEMS INSTALLED IN WALL SURFACES OF CORRIDORS AND OCCUPIED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
17. METAL ACCESS LADDERS TO BE PAINTED PNT-1 U.N.O.
18. REFER TO FINISH PLANS FOR PLASTIC LAMINATE (PLAM) AND SOLID SURFACE (SSF) COLOR DESIGNATIONS
19. 4"H STRAIGHT VINYL BASE TO BE USED FOR ALL CARPET TILE LOCATIONS (U.N.O.)
20. 4"H COVED VINYL BASE TO BE USED FOR ALL RESILIENT FLOORING LOCATIONS (U.N.O.)
21. INSTALL VINYL COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.)
22. ALL SEALED CONCRETE FLOORS SHALL HAVE VINYL BASE (U.N.O.).
23. CARPET TILE (CPTT) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.
24. REFER TO SPECIFICATIONS FOR RESILIENT TRANSITIONS (RT) PROFILES.
25. ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
26. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
27. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
28. PROVIDE VAPOR BARRIER SEALER ON CONCRETE SURFACES AT ALL AREAS TO RECEIVE CARPET AND/OR RESILIENT FLOORING.
29. PRIOR TO THE INSTALLATION OF NEW ADHESIVES OVER CONCRETE SUBSTRATES PRIOR TO THE INSTALLATION OF FLOOR COVERING SYSTEMS, APPLY A LIGHT-COLORED HIGH STRENGTH ACRYLIC POLYMER COMPOUND (AQUEOUS FLOOR SEALER) TO ISOLATE AND CUT BACK OLD ADHESIVE FLOOR RESIDUES. ACRYLIC POLYMER COMPOUND TO BE SOLVENT FREE AND TO CONTAIN "ZERO" CALCULATED VOC'S. BASIS OF DESIGN XL BRANDS "TRISEAL". FOLLOW MANUFACTURERS RECOMMENDATION FOR INTENDED APPLICATION.
30. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
31. WHERE "PATCH AND REPAIR" IS REQUIRED DUE TO NEW CONSTRUCTION IN EXISTING AREAS WHERE NO WORK IS SCHEDULED TO BE PERFORMED "PATCH AND REPAIR" FINISHES TO MATCH ADJACENT EXISTING FINISH, COLOR, TEXTURE AND SHEEN.
32. IN ALL EXISTING AREAS SCHEDULED TO BE RENOVATED, REPLACE ALL EXISTING ELECTRICAL WALL COVER PLATES AND DEVICES. ALL NEW ELECTRICAL COVER PLATES AND DEVICES TO BE STAINLESS STEEL.
33. ANY DAMAGE TO EXISTING SURFACES DUE TO SCHEDULED DEMOLITION AND/OR TO ACCOMMODATE DIVISION 22, 23, 26, 27 & 28 SCOPE OF WORK INCLUDED IN THIS PACKAGE SHALL BE REPAIRED. THOUGH NOT EXPRESSLY NOTED "PATCH AND REPAIR", IT IS INTENDED THAT THE WORK BE PERFORMED.
34. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.
35. REFER TO SPECIFICATIONS FOR ELEVATOR FINISHES.
36. WHERE INDICATED "SOLID SURFACE WAINSCOT / TRIM" SOLID SURFACE (SSF) WAINSCOT TO BE FROM 0'-0" AFF TO 8'-0" AFF. PAINT (PNT) TO BE FROM 8'-0" TO TOP.

GENERAL FLOOR FINISH NOTES

1. AT ALL AREAS OF NEW FLOORING:
   - A. PROVIDE RUBBER TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS.
   - B. PROVIDE 4-INCH RUBBER BASE ON ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS.
   - C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   - D. PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTRATE IN ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS PRIOR BEGINNING ANY WORK.
2. AT ALL AREAS OF NEW FLOORING IN EXISTING BUILDING:
   - A. EXISTING FLOORING AS INDICATED ON DRAWINGS MAY BE ASBESTOS CONTAINING AND SHALL BE REMOVED UNDER SEPARATE CONTRACT.
   - B. SHOT BLAST EXISTING CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
   - C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE RESULTING FROM DEMOLITION PRIOR TO BEGINNING ANY WORK.
   - D. PROVIDE CEMENTITIOUS SELF-LEVELING FLOORING UNDERLAYMENT. PROVIDE TWO COATS WITH A COMBINED AVERAGE THICKNESS OF ¼-INCH.
   - E. UNDERCUT EXISTING WOOD DOORS LOCATED ON OR ADJACENT TO AREAS OF NEW FLOORING AS REQUIRED TO ENSURE PROPER OPERATION OF THE DOOR(S).
   - F. EXISTING THRESHOLDS TO REMAIN SHALL BE REMOVED AND REINSTALLED SO NEW FLOORING CAN BE INSTALLED UNDER THE EDGE OF THRESHOLDS.
3. PROVIDE RUBBER FLOOR SYSTEM IN ELEVATOR CAB.
4. AT EVERY STAIR GOING DOWN FROM FLOOR LEVELS PROVIDE 36" WIDE RUBBER TACTILE WARNING STRIP FOR FULL WIDTH OF STAIR. TACTILE WARNING STRIP NOT REQUIRED AT INTERMEDIATE LANDINGS UNLESS NOTED OTHERWISE.

GENERAL PAINTING NOTES

1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
   - A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE.
   - B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PAINTED.
   - C. SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED PAINTED.
2. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
   - A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.
   - B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT.
   - C. AT REPAIRS AND UNPAINTED GYPSUM BOARD AND/OR PLASTER PROVIDE PRIMER AND TWO FINISH COATS OF PAINT.
   - D. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3. IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSED MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.
4. AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL SIGHT-EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF DECK, STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC.
5. ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH UNLESS NOTED OTHERWISE.
6. AT STEEL DOORS AND STEEL FRAMES:
   - A. INTERIORS TO BE PAINTED PNT-F WITH SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE.
   - B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITECT WITH SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE.

GENERAL CEILING FINISH NOTES

1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILING PLANS FOR ACT INFORMATION.
3. WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT LIMITED TO, FRAMING, DECK, DUCTWORK, PIPING & CONDUIT. DO NOT PAINT H, V, E, FA, P LABELS, MOVING PARTS, OR COMPONENTS THAT ARE EXPECTED TO REMAIN UNPAINTED.
4. ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 (IPS-C) UNLESS NOTED OTHERWISE ON CEILING AND/OR FINISH PLANS.
5. GYPSUM BOARD CEILINGS IN SHOWER AREAS AND ENTRY VESTIBULES TO BE PAINTED PNT-1 (IPS-B)
6. IN ALL MAIN CUSTODIAL AREAS AND MECHANICAL ROOMS; STEEL, DECKING AND EXPOSED STRUCTURE AND DUCKWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED U.N.O. IN FINISH PLANS

INTERIOR PAINT SYSTEM

IPS-LF-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, FLAT
IPS-LE-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, EGGSHELL
IPS-LS-V	LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, SEMI-GLOSS
IPS-D	DRY FALL, WATER-BASED, FLAT
IPS-AF	ALKYD, WATER-BASED, FLAT
IPS-AE	ALKYD, WATER-BASED, EGGSHELL
IPS-AS	ALKYD, WATER-BASED, SEMIGLOSS
IPS-AG	ALKYD, WATER-BASED, GLOSS
IPS-ES	EPOXY-MODIFIED LATEX, INTERIOR, SEMI-GLOSS
IPS-MIC	MULTICOLOR INTERIOR PAINT

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PUBLIC BUILDING COMMISSION
Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

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CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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5	60% CD	07.27.17
6	90% CD	09.07.17
7	ISSUED FOR BID	10.26.17
1	ADDENDUM NO. 1	11.14.17
2	ADDENDUM NO. 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

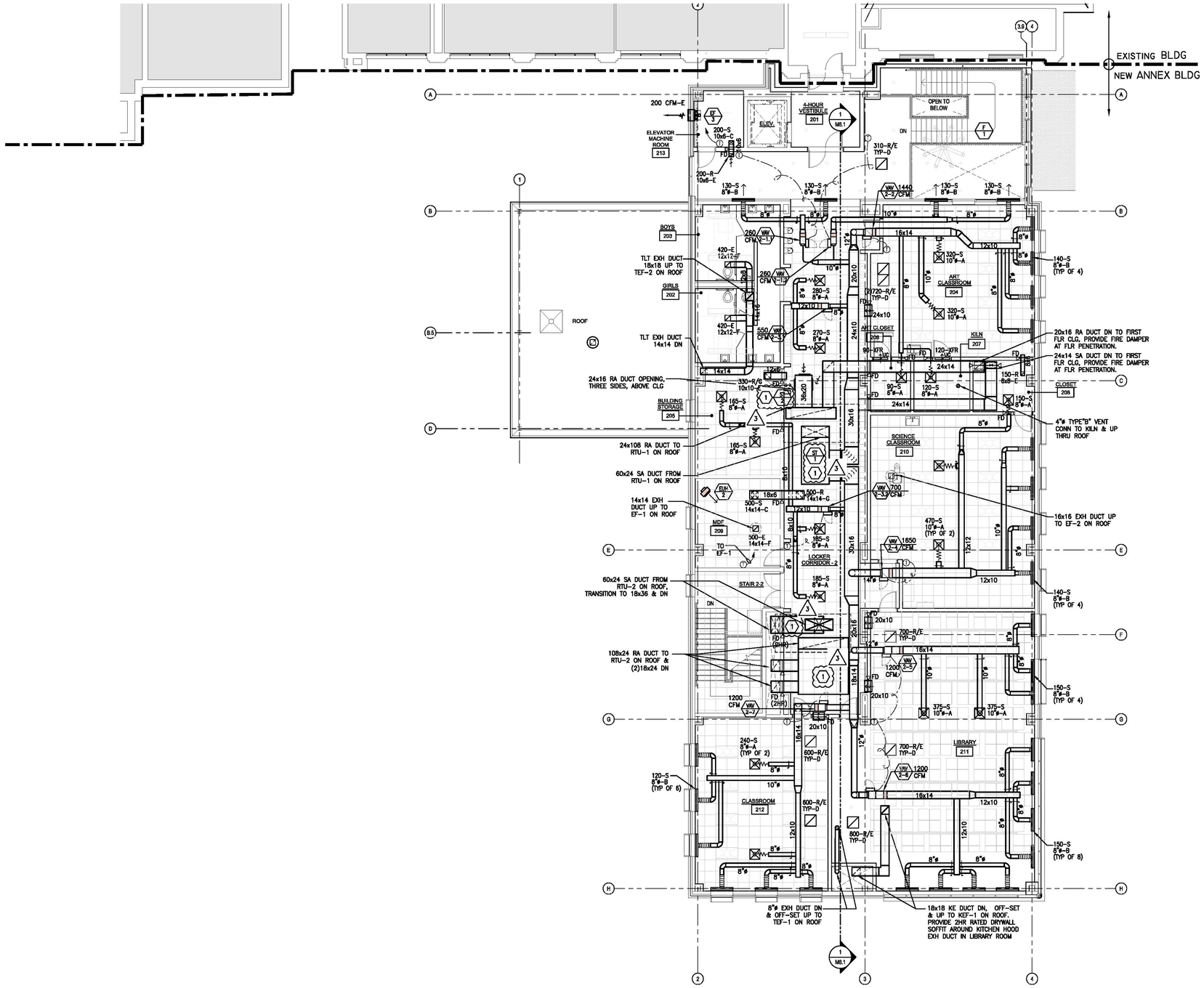
Title

SECOND FLOOR FINISH PLAN

Sheet

A14.2

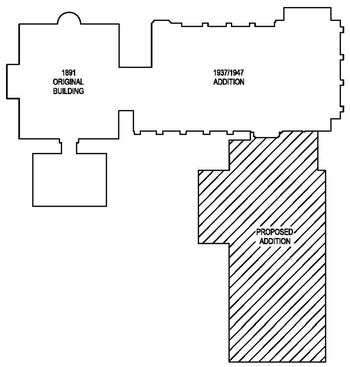
1/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0" | 6" = 1'-0"



1 SECOND FLOOR VENTILATION PLAN
1/8" = 1'-0"

KEY NOTES:

1. AT THE FIRST 15' OF THE RTU'S SUPPLY AND RETURN DUCTWORK, WRAP DUCTWORK WITH 3" THICK UNFACED FIBERGLASS BATT INSULATION AND ENCLOSE IT WITH TWO LAYERS OF 1 PCF MASS LOADED VINYL.



ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

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CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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WARNING:
ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS-MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKEWR OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS

Issuance

MARK	DESCRIPTION	DATE
1	100% DESIGN DEVELOPMENT	6.15.17
2	80% CD	7.27.17
3	90% CD	9.07.17
4	100% OUT TO BID	10.17.17
5	ISSUED FOR BID	10.26.17
3	ADDENDUM 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Contract No: PS2048B

Project No: 05125

Title
SECOND FLOOR VENTILATION PLAN - ANNEX

Sheet
M1.2

32'-0" 0'-0" 16'-0" 32'-0" 64'-0" 1/32" = 1'-0" | 16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0" | 8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0" | 4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0" | 2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0" | 1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0" | 0'-0" 0'-6" 1'-0" 2'-0" 1-1/2" = 1'-0" | 0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0" | 0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" 6" = 1'-0"

DIFFUSER, GRILLE & REGISTER SCHEDULE

TAG	DESCRIPTION	FACE SIZE	NECK SIZE	MATERIAL/FINISH	MANUFACTURER AND MODEL	COMMENTS
A	ARCHITECTURAL PLATE SUPPLY CEILING DIFFUSER COMPLETE WITH RADIAL OPPOSED BLADE AG-75 DAMPER	24x24	SEE PLAN	STEEL/WHITE	TITUS OMNI	–
B	INSULATED PLENUM SLOT DIFFUSER, 4' LONG, 1-1/2" SLOT SPACING WIDTH. 2 SLOT.	VARIES	SEE PLAN	STEEL/WHITE	TITUS TBDI-8D	–
C	STEEL SUPPLY GRILLE. 3/4 INCH BLADE SPACING, DOUBLE DEFLECTION WITH BLADES IN THE LONG DIRECTION.	VARIES	SEE PLAN	STEEL/WHITE	TITUS 300RL	–
D	NON-DUCTED PERFORATED RETURN CEILING GRILLE.	24x24 12x12	SEE PLAN	STEEL/WHITE	TITUS PXP	MAX. CFM=1000 MAX. CFM=500
E	DUCTED PERFORATED FLUSH FACE RETURN CEILING GRILLE	24x24	SEE PLAN	STEEL/WHITE	TITUS PAR	–
F	STEEL EXHAUST REGISTER. 1/2 INCH BLADE SPACING, 0 DEG. FIXED BLADE DEFLECTION, BLADE PARALLEL TO THE LONG DIMENSION.	VARIES	SEE PLAN	ALUMINUM/WHITE	TITUS 355ZRL	–
G	STEEL RETURN GRILLE. 3/4 INCH BLADE SPACING, 35 DEG. FIXED BLADE DEFLECTION, BLADE PARALLEL TO THE LONG DIMENSION.	VARIES	SEE PLAN	STEEL/WHITE	TITUS 350RL	–

NOTES:
1. COORDINATE EXACT LOCATIONS AND FRAME TYPE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. DIFFUSER MANUFACTURER SHALL PROVIDE A FULL ADPI ANALYSIS FOR EACH DIFFERENT ROOM AND SUPPLY DIFFUSER. PERFORMANCE DATA SHALL BE SPECIFIC TO THE JOB REQUIREMENTS AND INCLUDE THROW DISTANCES, NC VALUES (INCLUDING OCTAVE BAND LEVELS) PRESSURE DROPS, AND CUSTOMIZED ADPI REPORT ACCORDING TO LEED CERTIFICATE REQUIREMENTS. THIS REPORT SHALL BE PROVIDED TO THE DESIGN ENGR. PRIOR TO SUBMITTING.

LOUVER SCHEDULE

TAG	LOCATION	SERVING SYSTEM	SERVICE	CFM	MIN FREE AREA SQ. FT.	MAX FPM THRU GROSS AREA	SPD IN W.C.	LOUVER DIMENSION WxHxD	MANUFACTURER AND MODEL	REMARKS
L-1	MECHANICAL ROOM	–	INTAKE	500	1.0	500	N/A	24"x12"x4"	RUSKIN MODEL: ELF375D	①②③④

NOTE:
1. COLOR AND FINISH BY ARCHITECT
2. CONTRACTOR SHALL COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS
3. PROVIDE SHEET METAL PLENUM FOR CONNECTION TO DUCTWORK BEHIND LOUVER
4. EXTRUDED ALUMINUM, DRAINABLE BLADES, EVENLY SPACED, WITH BIRD SCREEN AND MOTORIZED DAMPER.

CONTROL DAMPER SCHEDULE

DAMPER TAG	DAMPER NAME	DESIGN FLOW RATE (CFM)	MANUFACTURER AND MODEL	REMARKS
MD-1	MOTORIZED DAMPER	500	RUSKIN MODEL: CD35	①②③④

REMARKS:
① DAMPERS CONTROLLED BY THE BUILDING AUTOMATION SYSTEM WILL FOLLOW THE REQUIREMENTS OF SPECIFICATION 23950.
② DAMPERS WITH VERTICAL BLADES WILL HAVE THRUST BEARINGS.
③ DAMPERS WILL BE SIZED IN COORDINATION WITH THE BUILDING AUTOMATION SYSTEM CONTRACTOR TO ENSURE PROPER CONTROLABILITY.
④ MECHANICAL CONTRACTOR RESPONSIBLE FOR DUCTWORK TRANSITIONS REQUIRED BY DAMPERS SMALLER THAN THE DUCT.

ROOF TOP UNIT SOUND DATA SCHEDULE

TAG	SOUND LOCATION	SOUND POWER MAX (ARI STD 260 TESTED) (DBA)							
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
RTU-1	INLET	90.3	80	76	72	73.2	69.2	67.7	63.1
	DISCHARGE	94.5	89.9	89.2	87	89	86.1	82.3	75.7
RTU-2	INLET	88.5	77.5	75.8	71.5	72.9	68.8	67.4	62.9
	DISCHARGE	91	79.5	77.7	78.4	78	73.9	71.6	66.4

HEATING TABLE

BUILDING LOAD (BTUH)	158300
VENTILATION LOAD (BTUH)	488692.8
TOTAL HEATING LOAD (BTUH)	646992.8
HEATING SYSTEM OUTPUT CAPACITY (BTUH)	1067000
HEATING SYSTEM EQUIPMENT INCLUDING IN THIS TABLE: B-1, RTU-1 & RTU-2.	

BUILDING SKIN LOSS AND VENTILATION LOSS BASED ON -10°F OUTSIDE AIR AND 70°F INSIDE AIR

BUILDING PRESSURIZATION TABLE

TOTAL ORDINANCE REQUIRED OUTSIDE AIR (CFM)	7350
TOTAL ACTUAL CONTINUOUS EXHAUST (CFM)	7350

NOTE: THIS TABLE IS TO SHOW CONFORMITY TO SECTION 18-28-501.4.

HEATING CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THE HEATING SYSTEM WILL HEAT ALL ROOMS REGULARLY OCCUPIED BY HUMANS TO AN INSIDE TEMPERATURE OF 68° WHEN THE OUTSIDE TEMPERATURE IS MINUS 10°F (AS REQUIRED BY THE SECTION 34 (13-196-410) AND 4 (5-4-270) OF THE 2004 CHICAGO BUILDING CODE AND BY PARAGRAPH 1204.1 OF CHARTER 18-12 (INERIOR ENVIRONMENT) OF THE PROPOSED BUILDING PLANNING AND LIFE SAFETY PORTION OF THE CODE).

SIGNED:.....

OWNER, CONTRACTOR OR OWNER'S LICENSED ENGINEER REPRESENTATIVE.

SOUND ATTENUATOR SCHEDULE

TAG	SERVICE	SYSTEM CFM	NOMINAL SIZE DIMENSION WxHxL	TOTAL CFM	MAX FACE VEL	DYNAMIC INSERTION LOSS (Dba), OCTAVE BAND/HERTZ 65 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	MANUFACTURER AND MODEL	REMARKS
ST-1	RTU-1 SUPPLY	13000	60"x24"x36"	13000	1300	4	8	13	16	17	16	13	9	PRICE MODEL: RTL-36	
ST-2	RTU-1 RETURN	13000	108"x24"x36"	13000	733	5	9	13	17	17	16	13	9	PRICE MODEL: RTL-36	

3

VENTILATION SCHEDULE

RM NO.	ROOM NAME	CODE PURPOSE	FLOOR AREA (SQ.FT.)	ORDINANCE REQUIREMENTS NATURAL LIGHT & VENT GLASS (SQ FT)	VENT (SQ FT)	MECHANICAL SUPPLY (CFM/SQ FT)	EXHAUST (CFM/SQ FT)	ORDINANCE REQ'D MECHANICAL VENT SUPPLY (CFM)	EXHAUST (CFM)	ACTUAL NATURAL LIGHT & VENT GLASS (SQ FT)	VENT (SQ FT)	MECHANICAL VENT SUPPLY (CFM)	EXHAUST (CFM)	HEATING DATA ACTUAL HEAT LOSS (BTU/HR)	PLAN HEAT SUPPLIED (BTU/HR)	SYSTEM EQUIPMENT SUPPLY	EXHAUST	REMARKS
	1ST FLOOR																	
100	VESTIBULE	CORRIDOR	148	NR	NR	NR	NR	0	0	0	0	0	0	6400	24520	RTU-1	–	
101	ENTRY	LOBBY	560	NR	NR	1	NR	560	0	0	0	620	150	8900	20485	RTU-1	RTU-1	
102	4 HOUR VESTIBULE	CORRIDOR	100	NR	NR	NR	NR	0	0	0	0	0	0	0	0	–	–	
103	ELEV. ENTRY	CORRIDOR	72	NR	NR	0	0	0	0	0	0	0	0	3400	24520	–	–	
	LOCKER CORRIDOR-1	CORRIDOR	805	NR	NR	NR	NR	0	0	0	0	1165	360	1000	31726	RTU-1	–	
104	BLDG ENGINEER OFFICE	OFFICE	308	NR	NR	0.6	0.3	185	92	0	0	450	450	4700	12255	RTU-1	RTU-1	
105	ADMIN	OFFICE	207	NR	NR	0.6	0.3	124	62	40	8	260	260	2500	7080	RTU-1	RTU-1	
106	JANITOR CLOSET	JAN. CLOSET	73	NR	NR	0	2	0	146	0	0	0	150	0	1735	–	TEF-2	150 CFM FROM CORRIDOR
107	UNISEX	TOILET	106	NR	NR	0	2	0	212	0	0	0	215	0	2486	–	TEF-2	215 CFM FROM CORRIDOR
108	MECHANICAL	INACTIVE STORAGE	361	NR	NR	0	0	0	0	0	0	500	500	4600	23500	LOUVER	EF-5	
109	BOY'S	TOILET	199	NR	NR	0	2	0	398	0	0	0	400	1900	2961	–	TEF-2	400 CFM FROM CORRIDOR
110	GIRL'S	TOILET	199	NR	NR	0	2	0	398	0	0	0	400	0	0	–	TEF-2	400 CFM FROM CORRIDOR
111	ELECTRICAL	INACTIVE STORAGE	174	NR	NR	0	0	0	0	0	0	500	500	1000	25600	RTU-1	EF-4	500 CFM FROM ENTRY
112	COMPUTER CLASSROOM	CLASSROOM	901	72.1	36.0	1.5	0.75	1352	676	80	16	1400	1400	5400	38126	RTU-1	RTU-1	
113	TABLE STORAGE	INACTIVE STORAGE	245	NR	NR	0	0	0	0	0	0	90	90	2500	8505	RTU-2	RTU-2	
114	DINING ROOM	DINING ROOM (NO COOKING EQUIP)	2192	NR	NR	1.5	1.5	3288	3288	280	0	3320	3320	13500	50198	RTU-2	RTU-2	
115	SERVERY	WARM KITCHEN (NO COOKING EQUIP)	360	NR	NR	1.5	1.5	540	540	0	0	700	700	1900	10584	RTU-2	RTU-2	
116	HYBRID KITCHEN	WARM KITCHEN (NO COOKING EQUIP)	1225	NR	NR	1.5	1.5	1838	1838	80	0	2910	2910	8600	43999	RTU-2	RTU-2/KEF-1	
	STAIR 1-2	STAIR	304	NR	NR	NR	NR	0	0	0	0	0	0	6400	16320	–	–	
117	K TOILET	TOILET	79	NR	NR	0	2	0	158	0	0	0	160	2000	5087	–	TEF-1	160 CFM FROM KITCHEN
118	K OFFICE	OFFICE	93	NR	NR	0.6	0.3	56	50	0	0	130	130	1900	4212	RTU-2	RTU-2	
119	KITCHEN STORAGE	INACTIVE STORAGE	138	NR	NR	NR	NR	0	0	0	0	90	90	2500	2916	RTU-2	RTU-2	
	FREEZER	INACTIVE STORAGE	113	NR	NR	0	0	0	0	0	0	–	–	–	–			
	COOLER	INACTIVE STORAGE	122	NR	NR	0	0	0	0	0	0	–	–	–	–			
	2ND FLOOR																	
	LOCKER CORRIDOR-2	CORRIDOR	1785	NR	NR	NR	NR	0	0	0	0	1180	160	9600	32135	RTU-1	–	
201	4 HOUR VESTIBULE	CORRIDOR	117	NR	NR	NR	NR	0	0	0	0	0	0	200	875	–	–	
202	GIRL'S	TOILET	205	NR	NR	0	2	0	410	0	0	0	410	1400	3290	–	TEF-2	410 CFM FROM CORRIDOR
203	BOY'S	TOILET	205	NR	NR	0	2	0	410	0	0	0	410	1400	3290	–	TEF-2	410 CFM FROM CORRIDOR
204	ART CLASSROOM	CLASSROOM	772	61.8	30.9	1.5	0.75	1158	579	120	24	1200	1200	6700	32680	RTU-1	RTU-1	
205	BUILDING STORAGE	INACTIVE STORAGE	288	NR	NR	0	0	0	0	0	0	330	330	3100	8987	RTU-1	RTU-1	
206	ART CLOSET	ACTIVE STORAGE	65	NR	NR	0.5	0.5	50	50	0	0	90	90	100	2451	RTU-1	RTU-1	
207	KILN	ACTIVE STORAGE	91	NR	NR	0.5	0.5	50	50	0	0	120	120	200	3268	RTU-1	RTU-1	
208	CLOSET	ACTIVE STORAGE	96	NR	NR	0.5	0.5	50	50	0	0	150	150	900	4085	RTU-1	RTU-1	
209	MDF ROOM	INACTIVE STORAGE	237	NR	NR	0	0	0	0	40	8	500	500	2500	25600	–	EF-1	
210	SCIENCE CLASSROOM	CLASSROOM	960	77	38	1.5	0.75	1440	720	160	32	1650	1650	7700	44935	RTU-1	EF-2	
211	LIBRARY	LIBRARY	1618	129.4	65	1.2	0.6	1942	971	560	112	2400	2200	26900	65360	RTU-1	RTU-1	
212	CLASSROOM	CLASSROOM	730	58.4	29	1.5	0.75	1095	548	240	68	1200	1200	12100	32680	RTU-1	RTU-1	
213	ELEV. MACH ROOM	INACTIVE STORAGE	90	NR	NR	0	0	0	0	0	0	200	200		5446	RTU-1	EF-6	200 CFM FROM CORRIDOR
	STAIR 2-1	STAIR	275	NR	NR	NR	NR	0	0	0	0	0	0	2900	3000	–	–	
	STAIR 2-2	STAIR	323	NR	NR	NR	NR	0	0	0	0	0	0	3500	8200	–	–	
	SYSTEM TOTAL		17192	–	–	–	–	13726	11645	–	–	24955	24605	158300	633097			

REFRIGERATION SCHEDULE

TAG	QTY	TYPE REFRIGERANT	NUMBER OF COMPRESSORS	NOMINAL TONS	MANUFACTURER	WEIGHT OF REFRIGERANT	KW/ COMP.	LOCATION	REMOTE	SELF CONTAING	AIR COOLED	REMARKS
RTU-1	1	R-410A	2	35	CARRIER	CKT#A 19 LBS CKT#B 27.7 LBS	29.6	ROOF	COMPR.	YES	YES	SEE NOTES
RTU-2	1	R-410A	2	25	CARRIER	CKT#A 16.5 LBS CKT#B 11 LBS	22.1	ROOF	COMPR.	NO	YES	SEE NOTES
CU-1	1	R-410A	1	2	CARRIER	5.3 LBS	2	ROOF	COMPR.	NO	YES	SEE NOTES

NOTES:
1. REMOVE EXPANSION VALVES DEVICES AND CONNECTIONS FROM AIR STREAM.
2. INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM. UPSTREAM FROM ANY LIQUID LINE SHUT OFF VALVES.
3. REMOTE REFRIGERATION PIPING SHALL BE TYPE K COPPER.
4. ALL JOINTS SHALL BE BRAZED.

RELIEF/INTAKE VENT SCHEDULE

TAG	LOCATION	CAPACITY CFM	MAX.S.P. IN.WG	THROAT AREA SQ. FT.	THROAT SIZE	THROAT VELOCITY	CURB CAP	DAMPER * MOTORIZED/BACKDRAFT	OPENING THRU ROOF	MANUFACTURER AND MODEL NO.	UNIT WT LBS.	REMARKS
RV-1	ROOF	4500	0.014	18.78	46"x46"	240 FPM	52"x52"	BACKDRAFT	REUSE EXIST (VIF)	GREENHECK MODEL: FGR-46x46	223	①②③④⑤
RV-2	ROOF	1060	0.084	1.36	14"x14"	780 FPM	20"x20"	BACKDRAFT	REUSE EXIST (VIF)	GREENHECK MODEL: FGR-14x14	64	①②③④⑤
RV-3	ROOF	1060	0.084	1.36	14"x14"	780 FPM	20"x20"	BACKDRAFT	REUSE EXIST (VIF)	GREENHECK MODEL: FGR-14x14	64	①②③④⑤
RV-4	ROOF	4000	0.1	4.69	26"x26"	852 FPM	32"x32"	BACKDRAFT	REUSE EXIST (VIF)	GREENHECK MODEL: FGR-26x26	118	①②③④⑤
OAI-1	ROOF	7000	0.011	28.89	80"x52"	242 FPM	88"x60"	MOTORIZED	REUSE EXIST (VIF)	GREENHECK MODEL: WH INTAKE	297	①②③④⑤

* ALL MOTORIZED DAMPERS TO BE PROVIDED BY COMTROLS CONTRACTORS PER SPECIFICATIONS

REMARKS:
① KNOCKDOWN – 10 TIERS
② TOP CAP INSULATION
③ ALUMINUM BIRD SCREEN
④ ROOF CURB MIN 14"
⑤ INSECT SCREEN

EXHAUST FAN SCHEDULE

TAG	LOCATION	SERVICE	CFM	F.S.P. IN WC	FAN DATA FAN TYPE	RPM	DRIVE	MOTOR DATA HP	VOLT	PH	HZ	MANUFACTURER AND MODEL	UNIT WT LBS.	REMARKS
EF-1	MAIN ROOF	MDF ROOM	500	0.75	CENTRIFUGAL FAN	1725	DIRECT	1/4	120	1	60	GREENHECK MODEL: G-098-A	81	①②③⑦⑧
EF-2	MAIN ROOF	SCIENCE CLASSROOM	1650	1	CENTRIFUGAL FAN	1404	BELT	3/4	208	3	60	GREENHECK MODEL: GB-141-7	105	①②③⑤
EF-3	SIDEWALL	ELEVATOR MACHINE ROOM	200	0.25	PROP SIDEWALL	1702	DIRECT	1/10	120	1	60	GREENHECK MODEL: SCI-8-440-VG	60	②③⑥⑦⑧
EF-4	SIDEWALL	ELECTRICAL	500	0.25	PROP SIDEWALL	1550	DIRECT	1/8	120	1	60	GREENHECK MODEL: SCI-12-432-D	89	②③⑥⑦⑧
EF-5	LOW ROOF	MECHANICAL	500	0.75	CENTRIFUGAL FAN	1725	DIRECT	1/4	120	1	60	GREENHECK MODEL: G-098-A	81	①②③⑦⑧
TEF-1	MAIN ROOF	KITCHEN TOILET	160	0.75	CENTRIFUGAL FAN	1468	DIRECT	1/4	120	1	60	GREENHECK MODEL: G-097-VG	58	①②③⑤
TEF-2	MAIN ROOF	1ST FLOOR BOY'S, GIRL'S, JANITOR, UNISEX AND 2ND FLOOR BOY'S, GIRL'S.	1985	1	CENTRIFUGAL FAN	1487	BELT	3/4	208	3	60	GREENHECK MODEL: GB-141-7	100	①②③⑤
KEF-1	MAIN ROOF	KITCHEN HOOD	2700	1.5	UPBLAST CENTRIFUGAL FAN	1283	BELT	1 1/2	208	3	60	GREENHECK MODEL: CUBE-180-15	176	①②③⑨

REMARKS:
① 14" HEIGHT ROOF CURB
② STARTER AND DISCONNECT
③ PROVIDE BACKDRAFT DAMPER
④ INTERLOCK W/OA MORTORIZED DAMPER
⑤ INTERLOCK W/BAS FOR ON & OFF OPERATION
⑥ PROVIDE WITH WALL HOUSING
⑦ THERMOSTATICALY CONTROLLED
⑧ SPEED CONTROLLER
⑨ INTERLOCK W/HOOD SWITCH
⑩ PROVIDE MOTOR SIDE GUARD
⑪ PROVIDE WALL COLLAR KIT
⑫ INTERLOCK WITH FREEZER/COOLER

ROOF TOP HVAC UNIT SCHEDULE (GAS HEATING)

TAG	SERVICE TYPE CAV	VAV	LOCATION	NOM. TONS	O.A. CFM	COOLING SECTION TOTAL MBH	SENSIBLE MBH	EAT°F DB/WB	LAT°F DB/WB	HEATING CAPACITY OUTPUT MBH	STAGES	GAS INPUT MBH	GAS PRESSURE MIN/MAX	SUPPLY FAN CFM	HP	TSP IN.W.C.	ESP IN.W.C.	FAN SPEED RPM	SOUND LEVEL	COMPRESSOR QTY	KW	CONDENS. FAN FLA	NO. OF FANS	UNIT ELECTRICAL DATA FLA	MCA	MOCP	VOLT	PH	HZ	OPERATING WT. (LBS)	MANUFACTURER AND MODEL	REMARKS
RTU-1	–	YES	ROOF	35	4350	409.43	324.81	80.5/67	56.8/56.8	283.5	2	262/350	7"/14"	13000	15	2.06	2	1067	SEE SOUND DATA SCHEDULE	2	29.6	6.5 EACH	2	46.2	196	225	208	3	60	5211	CARRIER, 48A30D35BPC52GHR	SEE NOTES
RTU-2	–	YES	ROOF	25	3000	292.83	196.99	82.3/68.2	56.3/55.2	283.5	2	262/350	7"/14"	7200	5	2.57	2	870	SEE SOUND DATA SCHEDULE	2	22.1	6.5 EACH	2	37.3	143	150	208	3	60	4686	CARRIER, 48A30D25BLM52GVC	SEE NOTES

NOTE:
1. COORDINATE INLET GAS PRESSURE REGULATOR WITH BUILDING GAS PRESSURE.
2. PROVIDE MINIMUM TWO COMPRESSORS WITH INDEPENDENT CIRCUITS.
3. PROVIDE 4" DEEP MERV 8 FILTER.
4. PROVIDE SINGLE POINT POWER CONNECTION AND WEATHER PROOF MAIN DISCONNECT.
5. PROVIDE SUPPLY AND RETURN DUCT SMOKE DETECTOR FOR UNIT TO BE HARD-WIRED TO RTU CONTROLS. UPON SMOKE DETECTION, UNIT WILL DISABLE AND OA DAMPER CLOSE.
6. PROVIDE FREEZE-STAT AT DX COIL DISCHARGE TO DISABLE MECHANICAL COOLING.
7. PROVIDE LOW PRESSURE SAFETY SWITCH AT FAN INLET AND HIGH PRESSURE SAFETY SWITCH AT FAN DISCHARGE TO BE HARD-WIRED TO SHUT THE SYSTEM OFF UPON ACTIVATION.
8. PROVIDE SELF ADJUSTING PREFABRICATED VIBRATION ROOF CURB (2" DEFLECTION MINIMUM) COMPLETE WITH SILENCERS, VIBRATION ISOLATORS, AND DUCTWORK IN CURB.
9. PROVIDE SELF-CONTAINED CONTROLS. PROVIDE TERMINAL POINTS FOR HARDWIRED INTERFACE TO EXTERNAL DEVICES. SEE TEMP CONTROLS DRAWING FOR DETAILS.
10. VENDOR TO PROVIDE FINAL TSP AND HP DATA.
11. PROVIDE POWER EXHAUST.

PUBLIC BUILDING COMMISSION — Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

1865 WEST MONTVALE AVE.
CHICAGO IL 60643

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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Landscape Architects

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Issuance

MARK	DESCRIPTION	DATE
1	100% DESIGN DEVELOPMENT	6.15.17
2	80% CD	7.27.17
3	90% CD	9.07.17
4	100% OUT TO BID	10.17.17
5	ISSUED FOR BID	10.26.17
3	ADDENDUM 3	11.30.17

PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS
PBC Contract No: PS2048B
Project No: 05125

Title
MECHANICAL SCHEDULES

Sheet
M7.1

32'-0" 0'-0" 16'-0" 32'-0" 64'-0" 1/32" = 1'-0"
16'-0" 0'-0" 8'-0" 16'-0" 32'-0" 1/16" = 1'-0"
8'-0" 0'-0" 4'-0" 8'-0" 16'-0" 1/8" = 1'-0"
4'-0" 0'-0" 2'-0" 4'-0" 8'-0" 1/4" = 1'-0"
2'-0" 0'-0" 1'-0" 2'-0" 4'-0" 1/2" = 1'-0"
1'-0" 0'-0" 0'-6" 1'-0" 2'-0" 1" = 1'-0"
0'-0" 0'-6" 1'-0" 2'-0" 1-1/2" = 1'-0"
0'-0" 0'-3" 0'-6" 0'-9" 1'-0" 3" = 1'-0"
0'-0" 0'-1-1/2" 0'-3" 0'-4-1/2" 0'-6" 6" = 1'-0"

NEW ANNEX WATER CALCULATIONS

NEW PLUMBING FIXTURES

	NO.	WSFU(EA)	WSFU(TOT)
WATER CLOSETS	9	10	90
LAVATORIES	12	2	24
ART/LAB SINKS	3	2	6
SERVICE SINKS	1	3	3
URINALS (F.V)	2	5	10
DRINKING FOUNTAINS	9	0.5	4.5
KITCHEN TRIPLE BASIN	1	4	4
KITCHEN HAND SINK	7	2	14

**TOTAL PLUMBING FIXTURE WATER USAGE: 155 WSFU (80 GPM)

OTHER EXISTING WATER USAGE ESTIMATED

	NO.	GPM (EA)	GPM(TOT)	
HOSE BIBBS	5	1	2.5	
NFWH	5	1	2.5	(ASSUME 50% DIVERSITY)

TOTAL ANNEX WATER USAGE: 80 + 5.0 = 85 GPM

PRESSURE LOSS CALCULATIONS

WATER PRESSURE (IN MAIN):	+35 PSI (**)
2 1/2" METER (@100 GPM)	−15.35 PSI
*PIPING PRESSURE LOSSES:	−10.00 PSI
31 FT ELEVATION CHANGE:	−13.45 PSI
PRESSURE BOOST:	+40 PSI
PRESSURE AVAILABLE AT LAST FIXTURE (25.PSI MINIMUM REQUIRED BY CODE)	+36.20 PSI

*PIPES SIZED AT 2.0 PSI MAXIMUM PRESSURE LOSS PER 100 FT. MAXIMUM 250 FT. EQUIVALENT LENGTH.
**TEST DATED _

MISCELLANEOUS EQUIPMENT SCHEDULE

FD-1	7"ø FLOOR DRAIN (ROUND)	ZURN MODEL NO. ZN-415 FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH "TYPE B" POLISHED NICKEL BRONZE STRAINER AND TOP.
FD-2	12" FLOOR DRAIN (ROUND)	ZURN MODEL NO. ZN-526 DIAMETER TOP DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN, ADJUSTABLE EXTENSION FRAME AND MEDIUM-DUTYSLOTEED GRATE W/ TRAP PRIMER
FD-3	8"x8" FLOOR DRAIN (SQUARE)	ZURN MODEL NO. Z-1910-2 SANI-FLOR RECEPTOR, 8"x8"x6" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM-DUTY 1/2" GRATE.
FD-4	8"x8" FLOOR DRAIN (SQUARE)	ZURN MODEL NO. Z-1910-3 SANI-FLOR RECEPTOR, 8"x8"x6" DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM-DUTY 3/4" GRATE.
TD-1	TRENCH DRAIN	ZURN MODEL Z-667 6[152] WIDE MODULAR TRENCH DRAIN MEDIUM-DUTY DURA COATED CAST IRON BODY WITH BOTTOM OUTLET,
FCO	FLOOR CLEANOUT	ZURN MODEL NO. ZN-1400-BP-NL SERIES, ADJUSTABLE FLOOR CLEANOUT. DURA-COATED C.I. BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG. FURNISH WITH SECURING SCREW.
WCO	WALL CLEANOUT	ZURN MODEL NO. 1441-2. DURA-COATED C.1. BODY, GAS AND WATER TIGHT ABS TAPERED THREAD PLUG. FURNISH WITH ROUND STAINLESS STEEL COVER WITH SECURING SCREW.
RD-1	ROOF DRAIN (LARGE)	ZURN MODEL Z100-DR 15" DIAMETER ADJUSTABLE ROOF DRAIN, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GAURD AND LOW SILHOUETTE POLY-DOME
ORD-1		ZURN MODEL Z100-DR 15" DIAMETER ADJUSTABLE ROOF DRAIN, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GAURD AND LOW SILHOUETTE POLY-DOME
DCV-1		DOUBLE CHECK VALVE, WILKINS MODEL 350 OR EQUAL; TESTABLE UNIT ASSE. 1015, PROVIDE STRAINER.
RPZ-1		REDUCED PRESSURE ZONE ASSEMBLY; WATTS SERIES 009, BRONZE BODY CONSTRUCTION, TESTABLE UNIT, ASSE STD 1013. PROVIDE AIR GAP FUNNEL, PIPED TO FLOOR DRAIN.
WALL ACCESS PANEL		ACCUDOR SF. 2000 16x16.
VACUUM BREAKER		CHICAGO FAUCETS 892-C
OSD-1		OPEN SIGHT DRAIN MINIMUM 3" A.F.F. BY SIOUX CHIEF, WATTS OR ZURN
OSD-2		OPEN SIGHT DRAIN MINIMUM 3" A.F.F. BY SIOUX CHIEF, WATTS OR ZURN

PLUMBING FIXTURE SCHEDULE

APPROVED MANUFACTURERS

(A) AMERICAN STANDARD
(AC) ACRYLINE
(E) ELJER INDUSTRIES
(K) KOHLER INDUSTRIES
(B) BEMIS
(L) OLSONITE
(S) SLOAN VALVE CO.
(Z) ZURN INDUSTRIES
(D) COYNE & DELANY
(C) CHICAGO FAUCET CO.
(CR) CREATIVE INDUSTRIES TERRAZO PRODS.
(H) HAWS
(G) GUY GRAY MFG. CO.
(EK) ELKAY
(MO) MOEN
(M) MUSTEE
(CH) CHURCH
(BR) BRADLEY
(SY) SYMMONS
(O) OASIS
(EK) ELKAY MANUFACTURING INC.
(P) POWERS
(GR) GUARDIAN
(W) WATER SAVER
(WS) WOODFORD MANUFACTURING CO.
(J) J.R. SMITH MANUFACTURING CO.
(T) T&S BRASS & BRONZE WORKS, INC.

FIXTURE TYPE	FIXTURE MATERIAL	FIXTURE SYMBOL	FIXTURE	VALVE	SEAT	FAUCET	FAUCET AERATOR	FLOW RATE (GPM)	FIXTURE QUANTITY	TRAP	WASTE	VENT	C.W.	H.W.	REMARKS
WATER CLOSET	VITREOUS CHINA	WC-1	(A) 2257.103 (K) K-4450-C	(S) ROYAL 111-1.28 (Z) EQUAL	(L) 95 (CH) 9500C (B) EQUAL	–	–	1.28GPF	2	INTEGRAL	CI 4"	2"	1 1/2" TOP SPUD	–	SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
WATER CLOSET	VITREOUS CHINA	WC-2	(A) 2257.103 (K) K-4450-C	(S) ROYAL 111-1.28 (Z) EQUAL	(L) 95 (CH) 9500C (B) EQUAL	–	–	1.28GPF	6	INTEGRAL	CI 4"	2"	1 1/2" TOP SPUD	–	SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AT ADA HEIGHT
WATER CLOSET	VITREOUS CHINA	WC-3	(A) 2257.103 (K) K-4450-C	(S) ROYAL 111-1.28ES-24V (Z) EQUAL	(L) 95 (CH) 9500C (B) EQUAL	–	–	1.28GPF	1	INTEGRAL	CI 4"	2"	1 1/2" TOP SPUD	–	SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AT ADA HEIGHT, (SENSOR OPERATED) 3
LAVATORY	VITREOUS CHINA	LAV-1	(A) 0355.012 (K) EQUAL	–	–	(C) 34-ABCP (Z) EQUAL 3	–	0.5	6	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	PROVIDE INSULATION JACKET SUPPLY AND WASTE PIPES UNDER LAVATORY (SEE ARCHIT. DWGS. FOR MOUNTING HEIGHTS) (SENSOR OPERATED) 3
LAVATORY	VITREOUS CHINA	LAV-2	(A) 0355.012 (K) EQUAL	–	–	(C) 34-ABCP (Z) EQUAL 3	–	0.5	5	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	PROVIDE INSULATION JACKET SUPPLY AND WASTE PIPES UNDER LAVATORY (SEE ARCHIT. DWGS. FOR MOUNTING HEIGHTS)
LAVATORY	VITREOUS CHINA	LAV-3	(A) 0355.012 (K) EQUAL	–	–	(S) ETF-600-A (Z) EQUAL	–	0.5	1	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	PROVIDE INSULATION JACKET SUPPLY AND WASTE PIPES UNDER LAVATORY (SEE ARCHIT. DWGS. FOR MOUNTING HEIGHTS) SENSOR OPERATED
URINAL	VITREOUS CHINA	UR-1	(K) K-4991-ET	(S) 186-0.125 DPB (Z) EQUAL	–	–	–	0.125 GPF	2	INTEGRAL	2"	1 1/2"	3/4" TOP STUD	–	HIGH EFFICIENCY. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
SINK	EPOXY RESIN	SK-1	INTEGRAL WITH COUNTERTOP	–	–	(W) L411BH	– 3	0.5	1	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	DECK MOUNTED FAUCET WITHOUT HOSE CONNECTION.
SINK	EPOXY RESIN	SK-2	INTEGRAL WITH COUNTERTOP	–	–	(W) L411VB	–	0.5	1	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	
SINK	STAINLESS STEEL	SK-3	NOT USED												3
SINK (2)	STAINLESS STEEL	SK-4	EAGLE GROUP HSA10FEBTMBMG	–	–	(T) EC 3101 VFS TMV	–	0.5	5	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	SENSOR OPERATED FAUCET WITH POWER CORD.
TRIPLE BASIN (2) SINK	STAINLESS STEEL	SK-5	UTENSIL SINK	–	– 3	(T) B-0131-B	–	1.42	2	2" "P" TRAP	2"	2"	COPPER 1/2"	COPPER 1/2"	
ART ROOM SINK	STAINLESS STEEL	SK-6	(EK) DRKAD222055R	–	–	(C) 1100-GN2AE35-317AB	E35AB	1.5	1	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	PROVIDE INSULATION JACKET SUPPLY AND WASTE PIPES UNDER LAVATORY (SEE ARCHIT. DWGS. FOR MOUNTING HEIGHTS)
SINK (2)	STAINLESS STEEL	SK-7	WORK TABLE WITH SINK	–	–	(C) 1100-GN2AE35-317AB	E35AB	1.5	2	1 1/2" "P" TRAP	1 1/2"	1 1/2"	COPPER 1/2"	COPPER 1/2"	
EYE/FACE WASH (2)	STAINLESS STEEL	EW-1	(W) VRFEB721	–	–	–	–	–	1	–	1 1/4"	1 1/4"	–	3/4"	
DRINKING FOUNTAIN	STAINLESS STEEL	DF-1	(EK) EDFPBWM114C	–	–	INTEGRAL PUSH BUTTON	–	–	9	1 1/2"	1 1/2"	1 1/2"	COPPER 1/2"	–	BARRIER-FREE. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS NON REFRIGERATED.
MOP BASIN	PRECAST TERRAZZO	JC-1	(CR) MC2424-612	–	–	(C) 911-ISCP	–	–	1	CI 3"	CI 3"	2"	COPPER 1/2"	COPPER 1/2"	INSTALL VACUUM BREAKER 7'-6" AFF (C) 892-G.
WALL HYDRANT	NICKEL BRONZE	WH-1	–	–	–	(Z) 1305	–	–	–	–	–	–	COPPER 1/2"	–	PROVIDE TESTABLE DOUBLE CHECK VALVE ADJACENT TO EACH WALL HYDRANT. WITH ACCESS PANEL.
ROOF HYDRANT	CAST IRON	RH-1	–		–	(Z) Z1388	–	–	–	–	–	–	COPPER 1/2"	–	EXPOSED HEAD NON FREEZE, DURA COATED CAST IRON
HOSE BIB	CHROME PLATED	HB-1	–	–	–	(Z) 195XL	–	–	–	–	–	–	COPPER 3/4"	–	INSTALL VACUUM BREAKER 7'-6" AFF (C) 892-G.
THERMOSTATIC MIXING VALVE	BRONZE	TMV-1	–	LEONARD TM-186 15020-PRV	–	–	NA	NA	–	–	–	–	1 1/2"	1 1/2"	SET TEMPERATURE TO MAXIMUM 115°F
THERMOSTATIC MIXING VALVE	BRONZE	TMV-2	–	WATTS SERIES USG-B	–	–	NA	NA	–	–	–	–	3/4"	3/4"	SET TEMPERATURE TO MAXIMUM 115°F WITH VACUUM BREAKER (INSTALL ONE TMV-2 FOR EACH LAVATORY AND SINGLE COMPARTMENT SINK)
THERMOSTATIC MIXING VALVE	BRONZE	TMV-3	–	(W) AP 3600	–	–	–	–	–	–	–	–	1/2"	1/2"	FOR EW-1 SET BETWEEN 60" AND 100"F

NOTE:
(1) PLUMBING CONTRACTOR SHALL FURNISH ALL ACCESSORIES REQUIRED FOR THE ELECTRONIC OPERATION OF WC-3, LAV-3, ACCESSORIES SHALL INCLUDE, BUT NOT LIMITED TO: LOW VOLTAGE TRANSFORMER, CONTROL MODULES, MIXING VALVES, ECT. WIRING AND INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR ACCESSORIES FOR SK-4 SHALL BE SUPPLIED BY THE FOOD SERVICE CONTRACTOR.
(2) EQUIPMENT TO BE FURNISHED BY THE FOOD SERVICE CONTRACTOR AND INSTALLED BY THE PLUMBING CONTRACTOR.

EXISTING BUILDING FIXTURE SCHEDULE

FIXTURES	QTY.	WSFU
DRINKING FOUNTAIN/ ELECTRICAL WATER COOLER	6	3.0
LAVATORY	13	26
SINK-SERVICE/MOP	2	6
SINK-UTILITY	2	6
URINAL	6	30
WATER CLOSET	23	230
TOTAL	–	301

SOLIDS INTERCEPTOR SCHEDULE

ITEM	SERVICE	DESCRIPTION	FLOW RATE, GPM	INLET/OUTLET SIZE (INCHES)	REMARKS
SI-1	SANITARY	SOLIDS INTERCEPTOR	15	1 1/2"	J.R. SMITH 8710; WADE 5740

NEUTRALIZATION TANK SCHEDULE

ITEM	SERVICE	DESCRIPTION	CAPACITY GALLONS	INLET/OUTLET SIZE (INCHES)	APPROX. LBS. LIMESTONE CHIPS	REMARKS	BASED ON
NT-1	SANITARY	NEUTRALIZATION TANK	5	1 1/2"/2"	PER MANF.	INSTALL BELOW EACH SINK AS INDICATED. 1 1/2" VENT	ORION, ZURN OR EQUAL

EXPANSION TANK SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	WATER TEMP.	CAPACITY	MAX. ACCEPT. VOLUME 40 PSI	MAX. ACCEPT. VOLUME 60 PSI	REMARKS
ET-1	IN-LINE THERMAL EXPANSION TANK W/FIELD ADJUSTABLE AIR CHARGE	STATE INDUSTRIES #ETC-10X RHEEM # EQUAL A.O. SMITH #EQUAL	110°	9.21 GAL	6.55 GAL	5.25 GAL	

GREASE TRAP SCHEDULE

ITEM	SERVICE	DESCRIPTION	BASED ON	FLOW RATE (GPM)	INLET/OUTLET SIZE (INCHES)	CAPACITY LIQUID (GAL.)	CAPACITY GREASE (LBS.)	REMARKS
GT-1	UNDER SINK GREASE SEPARATOR	GREASE SEPARATOR	ROCKFORD MODEL 2824	40	4"/4	54	180	FLUSH WITH FLOOR; W/2" VENT

PUMP SCHEDULE

PUMP No.	TYPE	GPM	PSI/FT	MOTOR V/PH/HZ	MOTOR HP	MOTOR RPM	REMARKS	MANUFACTURER AND MODEL NO.
RCP 1	RECIRCULATION PUMP 115°F	5 GPM	12'	115/1/60	125W	2800	PROVIDE AUTOMATIC TIMER AND AUQUSTAT COMBINATION TO CONTROL PUMP.	BELL AND GOSSETT "SERIES NBF" MODEL #NBF-33
RCP 2	RECIRCULATION PUMP 140°F	3 GPM	10'	115/1/60	55W	2800	PROVIDE AUTOMATIC TIMER AND AUQUSTAT COMBINATION TO CONTROL PUMP.	BELL AND GOSSETT "SERIES NBF" MODEL #NBF-12F/LW
BP 1	BOOSTER PUMP	200 GPM	45PSI	208/3/60	(2)7.5 EA.	3450	VARIABLE SPEED FREQUENCY DRIVE WITH BLADDER TANK; PACKAGED SYSTEM SHALL BE CERTIFIED AND UL LISTED FOR PACKAGED PUMPING SYSTEMS.	FLUID PUMP SYSTEM, B&G SYNCRO FLO

* MODEL NO. REFLECTS FIRST NAMED MANUFACTURER. OTHER MANUFACTURER'S, AS INDICATED, ARE APPROVED IF THEY MEET FIRST NAME MANUFACTURER'S PRODUCT.

WATER HEATER SCHEDULE

HEATER NO.	LOCATION	STORAGE (GALLON)	RECOVERY GPH	TEMP. RISE ° F	ELECT. GAS HP/ VOLT/ PHASE	ELECT. GAS BTU/HR INPUT	WATER TEMP OUT ° F	REMARKS	MFGR. *	MODEL NO. *	WEIGHT	ACCESSORIES
WH 1	MECH ROOM	60	276	100	120/1/60	120	140	PROVIDE 4" PVC EXHAUST AND INTAKE. CALCULATED PEAK DEMAND W/10% OVERDESIGN = 296GPH	AO SMITH	BTH-120	490LBS	ET 1 WITH OPTIONAL CONDENSATE NEUTRALIZING KIT #100112380
WH 2	MECH ROOM	60	276	100	120/1/60	120	140	PROVIDE 4" PVC EXHAUST AND INTAKE. CALCULATED PEAK DEMAND W/10% OVERDESIGN = 296GPH	AO SMITH	BTH-120	490LBS	ET 1 WITH OPTIONAL CONDENSATE NEUTRALIZING KIT #100112380

* MODEL NO. REFLECTS FIRST NAMED MANUFACTURER. OTHER MANUFACTURER'S, AS INDICATED, ARE APPROVED IF THEY MEET FIRST NAME MANUFACTURER'S PRODUCT.

SUMP PUMP SCHEDULE

ITEM	LOCATION ROOM No.	SYSTEM	FLUID	GPM	HEAD FEET	MOTOR CHARACTERISTICS HP	MOTOR CHARACTERISTICS RPM	MOTOR CHARACTERISTICS VOLT/ø/HZ	BASED ON	REMARKS
SP 1	ELEV. SHAFT	SUBMERSIBLE SUMP PUMP	SEWER	40	20	1/3	1750	120/1/60	WEIL PUMP #1408	1 1/4" SUBMERSIBLE SUMP PUMP (SIMPLEX) WITH 18"ø x 18" DEEP PRE CAST BASIN, POWER CORD SHALL BE PROVIDED WITH PLUG FOR RECEPTACLE PROVIDE OIL ALARM.

PUBLIC BUILDING COMMISSION
Chicago Public Schools

ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

1865 WEST MONTVALE AVE.
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CHICAGO PUBLIC SCHOOLS
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Issuance

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3	SD TRANSFER	05.11.17
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5	60% CD	07.27.17
6	90% CD	09.07.17
7	100% OUT TO BID	10.17.17
8	ISSUED FOR BID	10.26.17
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PBC Project Name: ESMOND ELEMENTARY SCHOOL ANNEX & RENOVATIONS

PBC Project No: 05125

ONYX Project No: 17005

Title

PLUMBING SCHEDULES AND DETAILS

Sheet

P4.5