THE SCHOOL DISTRICT OF PHILADELPHIA
Office of Capital Programs
440 North Broad Street, 3rd Floor – Suite 371
Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

Addendum No. 001

Subject: Edward T. Steel School – Classroom Modifications
SDP Contract Nos. B-0673C, B-070C of 2017/18

Location: Edward T. Steel School
4301 Wayne Avenue
Philadelphia, Pennsylvania 19140

This Addendum, dated May 9, 2018, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

The following items, clarifications and/or revisions are to be included in the Contract Documents:

DRAWINGS

Drawing: A001

Revisions:

a. General Notes: Add note 38 to read as follows:

38. PROVIDE AN ALLOWANCE OF 100 SQUARE FEET OF NEW GLASS/WOOD TRIM REPLACEMENT IN EXISTING CLASSROOM DOORS AND SIDELIGHTS. AREAS REQUIRING REPLACEMENT WILL BE DETERMINED AND COORDINATED IN THE FIELD WITH THE SCHOOL DISTRICT CONSTRUCTION REPRESENTATIVE.

Drawing: A101

Revisions:

a. Renovation Notes: Revise note A34 to read as follows (typical for all drawings):

A34 INSTALL NEW COAT HOOKS (30 HOOKS) AND PLASTIC LAMINATE SHELVES WHERE INDICATED.

Drawing: A101.2

Revisions:

a. Interior Elevation 3/A101.2: Add the dimension 3’-3” from the new markerboard/tackboard to the adjacent wall on the right side.
b. Interior Elevation 4/A101.2: Revise the new tackboard to be 36” wide instead of 48” wide.

Drawing: A102

Revisions:

a. Partial Second Floor Demolition Plan Area B, 1/A102: Add demolition tag D07 to Classroom 202, Classroom 204 and Classroom 206.
b. Partial Second Floor Plan Area B, 2/A102: Remove the A02 tag in the Classroom 202 storage alcove and change it to an A12 tag.
c. Partial Second Floor Plan Area B, 2/A102: The A12 tag should also extend to all three walls in the corridor alcove area outside the classrooms.

d. Partial Second Reflected Ceiling Plan Area B, 4/A102: See attached revised drawing A102 for revised ceiling grid layout.

Drawing: A102.1

Revisions:

a. Interior Elevation 4/A102.1: Change the 2'-0" dimension for the tackboard to 1'-0".

Drawing: A103

Revisions:

a. Second Floor Plan Area C, 2/A103: The A12 tag should also extend to all three walls in the corridor alcove area outside the classrooms.
b. Second Reflected Ceiling Plan Area C, 3/A103: See attached revised drawing A103 for revised ceiling grid layout.

Drawing: A103.1

Revisions:

a. Interior Elevation 3/A103.1: Change the 2'-0" dimension for the tackboard to 1'-0".
b. Interior Elevation 16/A103.1: Change the 2'-0" dimension for the tackboard to 1'-0".

Drawing: A501

Revisions:

a. Typical Locker Section Detail 2/A501: See attached revised drawing A501 for revised detail.
b. New Partition Detail 4/A501: Add the following note to the wall detail: PROVIDE FRAMING SUPPORT FOR INSTRUCTIONAL BOARDS.

Drawing: A601

Revisions:

a. Door and Frame Schedule: See attached revised drawing A601 for added "Hardware Type" column.

Drawing: All Mechanical Drawings

Revisions:

a. ADD key plan and seal information on all mechanical sheets.

Drawing: All Mechanical and Electrical Drawings

Revisions:

a. Revised B-numbers on titleblock
b. Revised Project title on titleblock

Drawing: **E001**

Revisions:

a. Added Light fixture type B to lighting fixture schedule.

Drawing: **ED111**

Revisions:

a. Added existing lighting in toilets and storage rooms and key plan.

Drawing: **ED112:**

Revisions:

a. Added Key plan.

Drawing: **ED121**

Revisions:

a. Added Key plan

Drawing: **ED122**

Revisions:

a. Added Key plan.

Drawing: **E111**

Revisions:

a. Added switch control designation on lighting floor plan.
b. Added Key plan and graphic scale.

Drawing: **E112**

Revisions:

a. Added switch control designation on lighting floor plan.
b. Added Key plan and graphic scale.

Drawing: **E121**

Revisions:

a. Added receptacles in classrooms 105, 107, 109, 111 and 113.
b. Revised and added key notes.
c. Added wiring schedule.
d. Added Key plan and graphic scale.

Drawing: **E122**

Revisions:

a. Added receptacles and completed wiring in classrooms 201, 202, 203, 204, 205, 206, 207, 209 and 211.
b. Revised and added key notes.
c. Added wiring schedule.
d. Added Key plan and graphic scale.

BIDDER'S QUESTIONS

1. **Question:** Due to the scope of work for all projects, the substantial completion date is unachievable. Along with lost time for moving of furniture and equipment before start of project. Can the date for substantial completion be extended?

   Response: No

2. **Question:** Visual Display Surfaces - in spec there is a note if new boards are not installed in time, to use temporary boards as necessary, how many temporary boards are we to provide per classroom?

   Response: Temporary boards do not need to be provided.

3. **Question:** Do we need to provide temporary window shades, if new ones are not installed before start of school?

   Response: No. Existing shades are to be removed and salvaged/protected and reinstalled until new shades can be installed.

4. **Question:** Wood Floor Refinishing- some projects call for 2 coats of stain, can we forgo the stain and just use 2 coats of sealer and 2 coats of finish for all projects. You are adding on time to an already accelerated schedule.

   Response: Sand, seal, and finish the wood floors in accordance with the specifications. Omit staining of the floor.

5. **Question:** Have you checks on the choices of accent colors for the VCT tile? The colors may be a stock color, but do they have enough on hand, if not they may not be readily available for the substantial completion date.

Response: **Armstrong has been made aware of this project and its approximate square footage needs. Contractor to provide updated information on each color's availability immediately after NTP.**

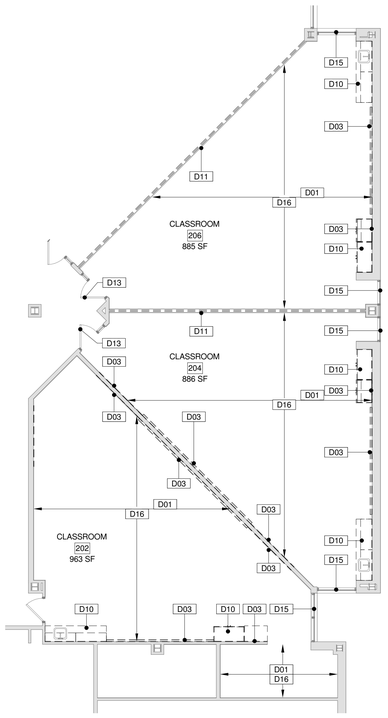
6. **Question:** Can you please include and spec for electrostatic painting.

   Response: **See Electrostatic Paint spec in Addendum #2.**

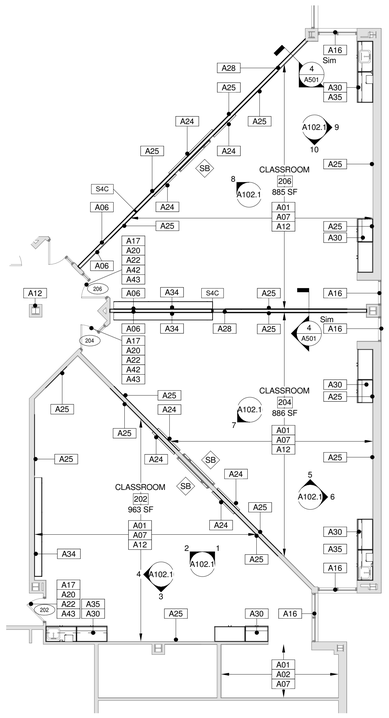
ATTACHMENTS

Drawing A102
Drawing A103
Drawing A501
Drawing A601
Drawing E001
Drawing ED111
Drawing ED112
Drawing ED121
Drawing ED122
Drawing E111
Drawing E112
Drawing E121
Drawing E122
Drawing E401
Drawing E501
Drawing M001
Drawing MD111
Drawing MD112
Drawing M111
Drawing M112

End of Addendum No. 001

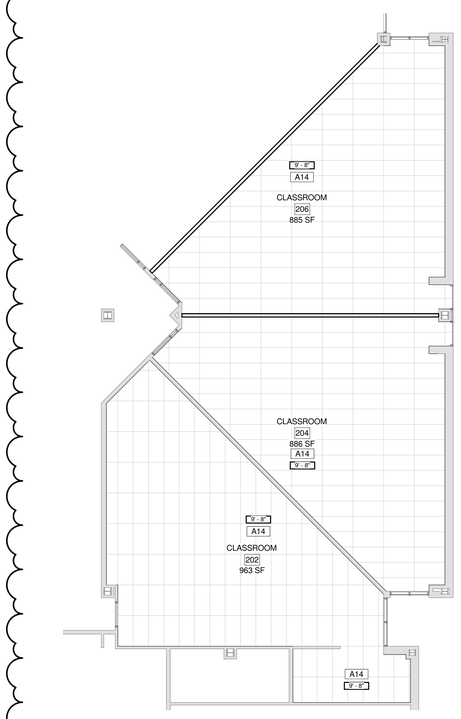


1 PARTIAL SECOND FLOOR DEMOLITION PLAN AREA B
A102 SCALE: 1/8" = 1'-0"



2 PARTIAL SECOND FLOOR PLAN AREA B
A102 SCALE: 1/8" = 1'-0"

3 PARTIAL SECOND FLOOR PLAN AREA B
A102 SCALE: 1/8" = 1'-0"

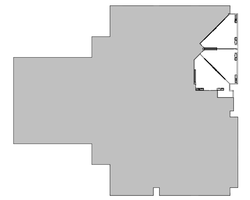


4 PARTIAL SECOND REFLECTED CEILING PLAN - AREA B
A102 SCALE: 1/8" = 1'-0"

Floor Finish Area	
	VCT-1
	ROOMS202, 204, 206, 207, 209, 211
	VCT-2
	ROOMS202, 204, 206, 207, 209, 211
	VCT-3
	ROOMS202, 204, 206, 207, 209, 211
	VCT-4
	ROOMS105, 105A, 107, 107B, 109, 111, 111B, 113, 201, 203, 205
	VCT-5
	ROOMS105, 107, 109, 111, 113, 201, 203, 205
	VCT-6
	ROOMS105, 107, 109, 111, 113, 201, 203, 205

DEMOLITION NOTES	
Key Value	Keynote Text
D01	REMOVE EXISTING VCT FLOORING.
D03	REMOVE EXISTING CHALKBOARD/MARKERBOARD/TACKBOARD/TACKS TRIP/CHALKBOARD. INCLUDING ALL ASSOCIATED ACCESSORIES AND MASTIC/ADHESIVE. PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH ADJACENT EXPOSED SURFACES AND/OR TO ACCEPT NEW SPECIFIED DISPLAY SURFACE OR EQUIPMENT. REFER TO ENVIRONMENTAL COORDINATION SPECIFICATION.
D06	REMOVE EXISTING PROJECTION SCREEN AND BRACKETS. SALVAGE PROJECTION SCREEN AND DELIVER TO OWNER. CONTRACTOR TO DISPOSE OF MOUNTING BRACKETS.
D07	REMOVE EXISTING PAPER TOWEL DISPENSER/TOILET PAPER DISPENSER/SOAP DISPENSER/HAND SANITIZER DISPENSER. SALVAGE FOR REINSTALLATION AS PART OF NEW WORK.
D09	REMOVE EXISTING COAT HOOKS AND WOOD MOUNTING BRACKET.
D10	REMOVE EXISTING BASE CABINETS/TALL CABINETS/WALL CABINETS/COUNTER TOP/BACKSPLASH/SHELVES. INCLUDING ALL ASSOCIATED ACCESSORIES, MOUNTING BRACKETS AND EXPOSED BLOCKING. PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH ADJACENT SURFACES AND/OR TO ACCEPT NEW SPECIFIED DISPLAY SURFACE OR EQUIPMENT. REFER TO ENVIRONMENTAL COORDINATION SPECIFICATION. WHERE THE CASEWORK IN MOUNTED ON EXISTING STRUCTURAL GLAZED BLOCK BASE, THE STRUCTURAL GLAZED BLOCK BASE SHALL REMAIN AND BE PREPAIRED FOR NEW CASEWORK.
D11	REMOVE EXISTING FOLDING PARTITION, TRACK AND ASSOCIATED HARDWARE. PATCH AND REPAIR EXISTING WALL/TRIM AS REQUIRED TO MATCH ADJACENT SURFACES AND TO ACCEPT NEW FINISHES.
D13	REMOVE EXISTING DOOR KNOB, LATCH SET AND DOOR CLOSER. DOOR TO REMAIN
D15	REMOVE EXISTING WINDOW TREATMENT AND ASSOCIATED HARDWARE FROM ALL WINDOWS. PATCH AND REPAIR EXISTING WALL/TRIM AS REQUIRED TO MATCH ADJACENT SURFACES AND TO ACCEPT NEW SPECIFIED WINDOW TREATMENT.
D16	REMOVE EXISTING ACOUSTICAL CEILING TILE AND GRID.
D19	REMOVE EXISTING FREE-STANDING WOOD CUBBIES. COORDINATE WITH THE OWNER IF THE CUBBIES SHOULD BE DISPOSED OF OR SALVAGED AND DELIVERED TO THEM.
D28	REMOVE EXISTING KITCHENETTE UNIT IN ITS ENTIRETY. INCLUDING ALL ASSOCIATED APPLIANCES ACCESSORIES, MOUNTING BRACKETS AND EXPOSED BLOCKING. PATCH AND REPAIR EXISTING WALL AS REQUIRED TO MATCH ADJACENT SURFACES AND/OR TO ACCEPT NEW FINISH AND/OR EQUIPMENT. REFER TO ENVIRONMENTAL COORDINATION SPECIFICATION.

RENOVATION NOTES	
Key Value	Keynote Text
A01	INSTALL NEW VCT FLOORING. CLEAN, FLASH PATCH AND LEVEL FLOOR AS REQUIRED. PREP FLOOR TO RECEIVE NEW FINISH. REFER TO ENVIRONMENTAL COORDINATIONS SPECIFICATION.
A02	STRIP AND SAND, PATCH, CLEAN AND PREP EXISTING WOOD FLOORING AND PROVIDE A NEW CLEAR COAT FINISH. REPAIR ANY DAMAGED FLOORING AS REQUIRED, NEW FLOORING TO MATCH EXISTING ADJACENT FLOORING. COORDINATE LOCATIONS OF NEW FLOORING IN THE FIELD WITH THE OWNER.
A04	CLEAN EXISTING CERAMIC TILE FLOORING, BASE AND MARBLE THRESHOLD.
A06	INSTALL NEW RUBBER WALL BASE. CLEAN AND PREP EXISTING SURFACE FOR NEW FINISH.
A07	CLEAN EXISTING STRUCTURAL GLAZED BLOCK WALL BASE.
A12	PAINT EXISTING CMU/PLASTER/GWB AND EXPOSED PIPES. SCRAPE EXISTING LOOSE PAINT, SAND, (INCLUDING THE REMOVAL OF ALL STAPLES, ETC.) CLEAN AND PREP SURFACE FOR NEW FINISH.
A14	INSTALL NEW 2X4 SUSPENDED ACOUSTICAL TILE CEILING AND GRID.
A16	INSTALL NEW INTERIOR WINDOW SHADES AS SPECIFIED ON ALL EXTERIOR WINDOW UNITS IN CLASSROOM.
A17	INSTALL NEW HARDWARE AS SCHEDULED ON EXISTING DOOR.
A20	PATCH, LIGHTLY SAND, CLEAN (INCLUDING THE REMOVAL OF ALL STAPLES, ETC.) AND PREP EXISTING WOOD DOOR AND PROVIDE NEW CLEAR COAT FINISH. REPAIR DAMAGED AREAS TO MATCH ADJACENT PROFILE. INCLUDING WOOD GRILLES AND GLASS WHERE OCCURS. DAMAGED WOOD AND GLAZING AREAS SHOULD BE REVIEWED WITH THE OWNER IN THE FIELD.
A22	PAINT EXISTING HOLLOW METAL DOOR FRAME. LIGHTLY SAND, CLEAN AND PREP SURFACE FOR NEW FINISH. PAINT ENTIRE FRAME (BOTH SIDES). CORRIDOR SIDE COLOR TO MATCH OTHER EXISTING CORRIDOR DOOR FRAMES.
A24	INSTALL NEW MARKERBOARD AS SCHEDULED.
A25	INSTALL NEW TACKBOARD AS SCHEDULED.
A28	INSTALL NEW STUD/GWB WALL AS SCHEDULED IN EXISTING FOLDING PARTITION OPENING. FINISH/PAINT AS SCHEDULED (BOTH SIDES).
A29	PATCH, LIGHTLY SAND, CLEAN (INCLUDING THE REMOVAL OF ALL STAPLES, ETC.) AND PREP EXISTING WOOD CASEWORK/COUNTER TOP/SHELVES AND PROVIDE NEW CLEAR COAT FINISH. REPAIR DAMAGED AREAS/HARDWARE TO MATCH EXISTING ADJACENT.
A30	INSTALL NEW PLASTIC LAMINATE CASEWORK AS SCHEDULED.
A34	INSTALL NEW COAT HOOKS (30 HOOKS).
A35	RE-INSTALL SALVAGED PAPER TOWEL DISPENSER/TOILET PAPER DISPENSER/SOAP DISPENSER/HAND SANITIZER DISPENSER.
A42	PAINT EXISTING METAL LOUVER (BOTH SIDES). LIGHTLY SAND, CLEAN AND PREP SURFACE FOR NEW FINISH. MATCH DOOR FRAME COLOR.
A43	PATCH, LIGHTLY SAND, CLEAN (INCLUDING THE REMOVAL OF ALL STAPELS, ETC.) AND PREP EXISTING WOOD TRANSOM PANEL AND PROVIDE NEW CLEAR COAT FINISH. REPAIR DAMAGED AREAS TO MATCH ADJACENT PROFILE.



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Project

THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET
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(215) 400 - 4730 | (215) 400 - 4731 (fax)
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SEAL:

NAME (LICENSED PROFESSIONAL) | DATE
STATE AND LICENSE NO: | XX/XX/20XX

Architectural:

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Fax: 301.216.9671
Email: AnilG@theges.com
Attn: Anil Giri

BID DOCUMENTS
APRIL 20, 2018

NO.	DATE	REVISION
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	5/9/18	ADDENDUM #1

SCHOOL & LOCATION

Edward T. Steel Elementary School

4301 Wayne Avenue, Philadelphia PA 19140

PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE

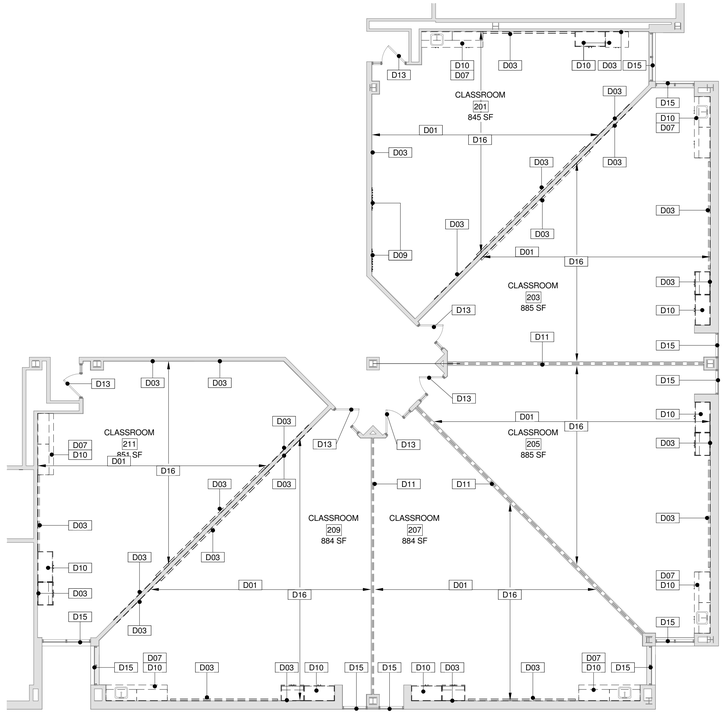
SECOND FLOOR PARTIAL PLAN AREA B

LOCATION NO.	FILE NO.
XX-XXX	
DRAWN BY	CHECKED BY
Author	*Checker*

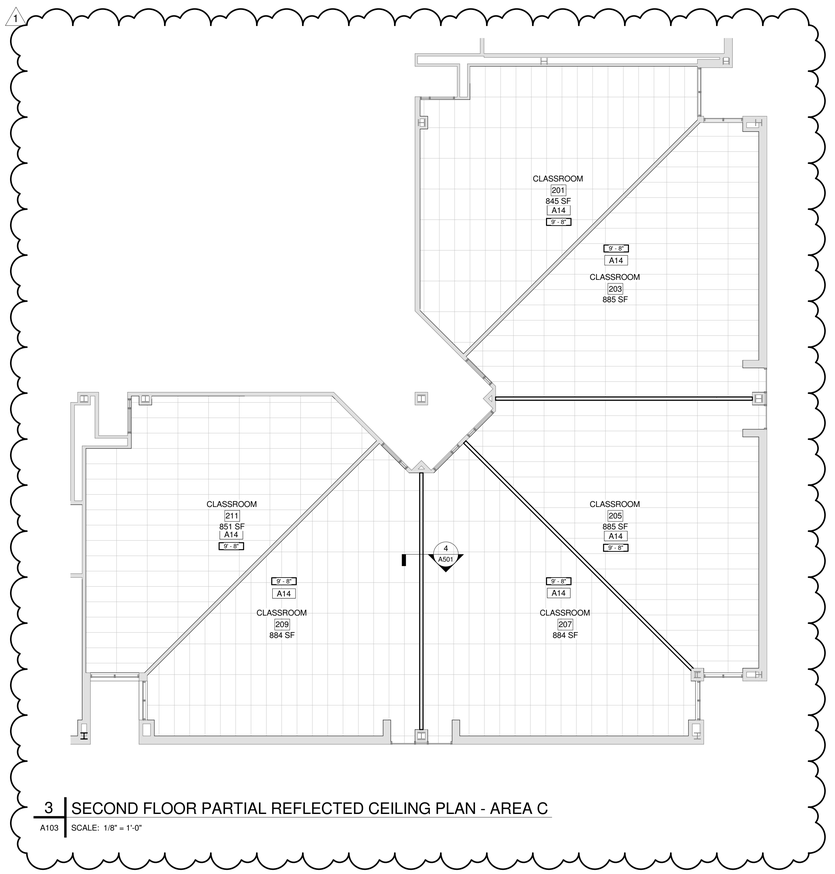
B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

A102



1 SECOND FLOOR PARTIAL DEMOLITION PLAN AREA C
A103 SCALE: 1/8" = 1'-0"



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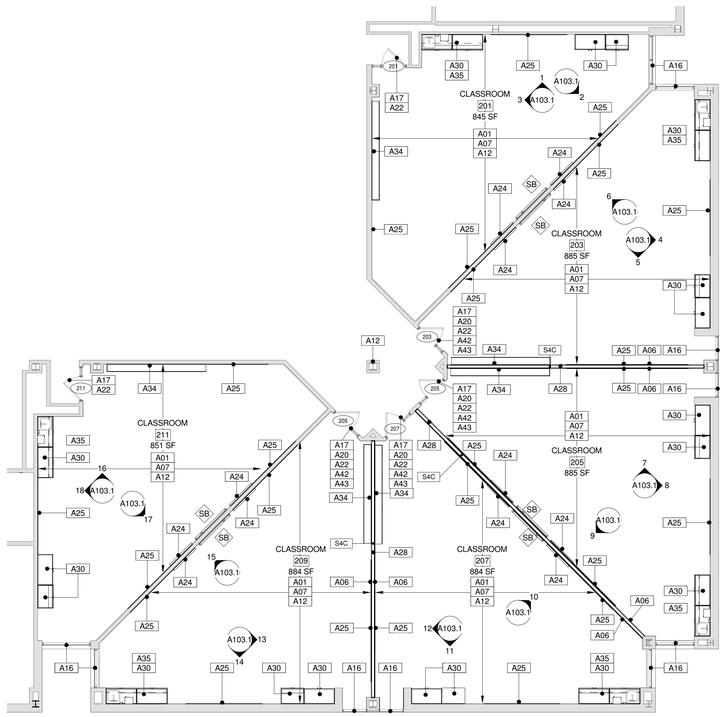
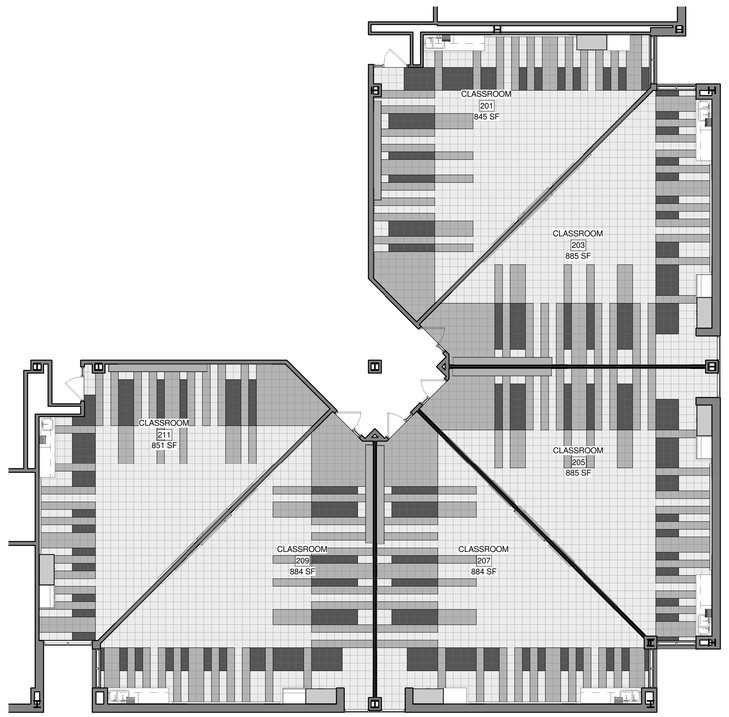


2 SECOND FLOOR PARTIAL PLAN AREA C
A103 SCALE: 1/8" = 1'-0"



4 SECOND FLOOR PARTIAL FINISH PLAN AREA C
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	VCT-2 ROOMS202, 204, 206, 207, 209, 211
	VCT-3 ROOMS202, 204, 206, 207, 209, 211
	VCT-4 ROOMS105, 105A, 107, 107B, 109, 111, 111B, 113, 201, 203, 205
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THE SCHOOL DISTRICT OF PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET
PHILADELPHIA, PA 19130 - 4015

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SEAL:

NAME (LICENSED PROFESSIONAL) | DATE
STATE AND LICENSE NO: | XX/XX/20XX

Architectural:

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Attn: Brian Good

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Global Engineering Solutions
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Phone: 301.216.2871
Fax: 301.216.9671
Email: AnilG@thegec.com
Attn: Anil Giri

BID DOCUMENTS
APRIL 20, 2018

NO.	DATE	REVISION
10		
9		
8		
7		
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5		
4		
3		
2		
1	5/9/18	ADDENDUM #1

SCHOOL & LOCATION

Edward T. Steel Elementary School

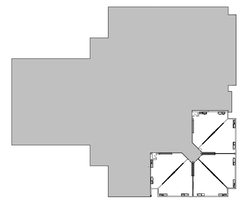
4301 Wayne Avenue, Philadelphia PA 19140

PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE

SECOND PARTIAL FLOOR PLAN AREA C



LOCATION NO.	FILE NO.
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DRAWN BY	CHECKED BY
Author	*Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

A103

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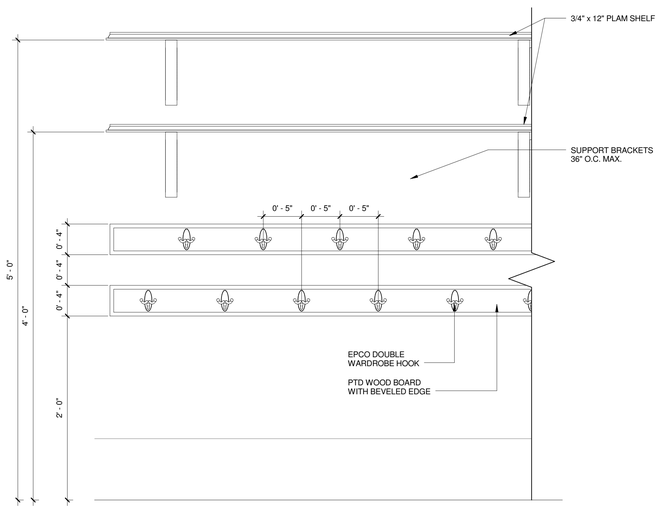
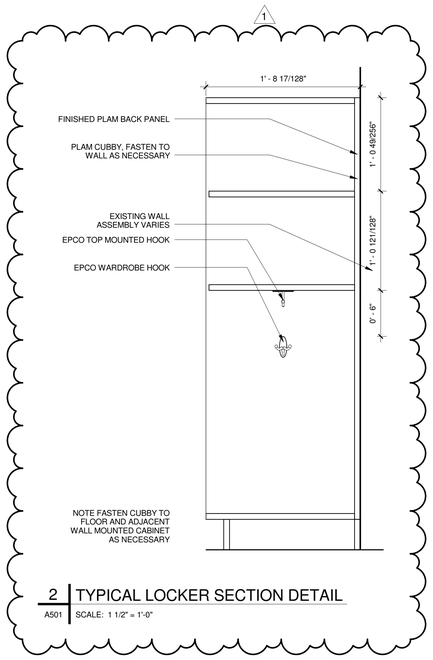
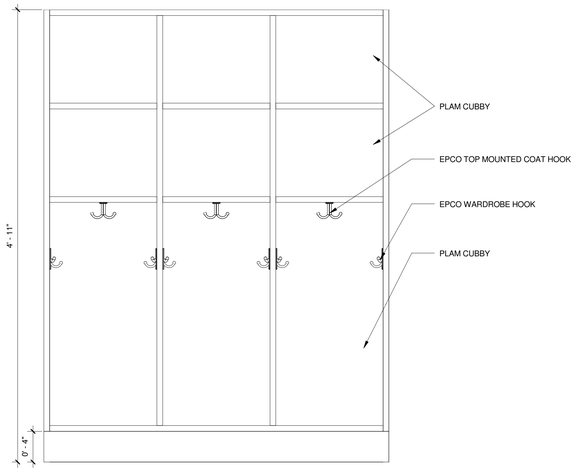
Project



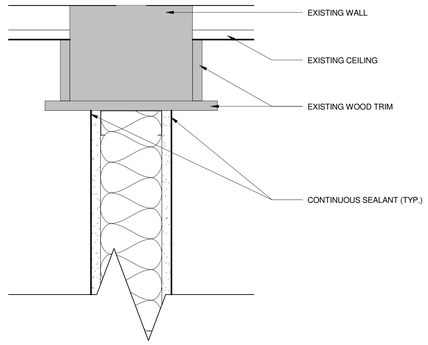
1 TYPICAL COAT HOOK DETAIL
A501 SCALE: 1 1/2" = 1'-0"

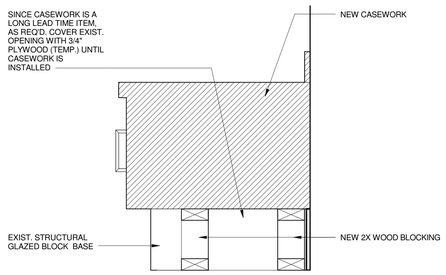


2 TYPICAL LOCKER SECTION DETAIL
A501 SCALE: 1 1/2" = 1'-0"

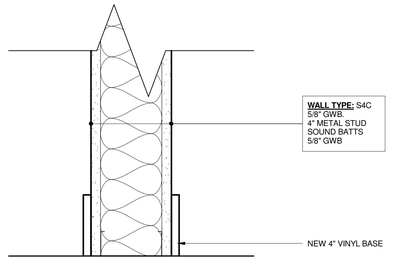


3 TYPICAL LOCKER ELEVATION
A501 SCALE: 1 1/2" = 1'-0"





5 CASEWORK DETAIL
A501 SCALE: 1 1/2" = 1'-0"



4 NEW PARTITION DETAIL
A501 SCALE: 3" = 1'-0"

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BID DOCUMENTS
APRIL 20, 2018

NO.	DATE	REVISION
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	5/9/18	ADDENDUM #1

SCHOOL & LOCATION

Edward T. Steel Elementary School

4301 Wayne Avenue, Philadelphia PA 19140

PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE

DETAILS

LOCATION NO.	FILE NO.
XX-XXX	
DRAWN BY	CHECKED BY
Author	*Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.
A501

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Project

DOOR AND FRAME SCHEDULE

	DOOR						FRAME						
NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	GLAZING TYPE	FIRE RATING	HARDWARE SET	COMMENTS
105	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
105A	EX	6' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	-	-	PH-03 / NOTE 10	
107	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
107A	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	-	-	PH-04 / NOTE 10	
107B	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	-	-	PH-03 / NOTE 10	
108	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - HM	EX	EX	EX	EX	-	-		
108A	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX	EX	-	-		
109	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
109A	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	-	-	PH-04 / NOTE 10	
111	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
111A	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	-	-	PH-04 / NOTE 10	
111B	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	-	-	PH-03 / NOTE 10	
113	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
113A	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	-	-	PH-04 / NOTE 10	
201	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
202	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
203	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
204	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
205	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
206	EX	3' - 1"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
207	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
209	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	
211	EX	3' - 0"	7' - 0"	0' - 1 3/4"	EX - Wood	EX	EX	EX - HM	Paint	EX	-	PH-02 / NOTE 10	

1

DOOR NOTES

1.) ALL GLAZING IN FIRE RATED DOORS TO BE FIRE GLASS COMPLYING WITH ANSI IMPACT REQUIREMENTS.

2.) ALL CLOSERS TO HAVE CLOSING SPECS SET 90° - 12°, 5 SECONDS MIN.

3.) ALL DOOR LOCKS, LATCHES, PANIC HARDWARE AND PULLS TO BET SET 34"-48" AFF.

4.) ALL DOOR OPERATING DEVICES (OTHER THAN PANIC HARDWARE) TO BE LEVER OPERATED.

5.) ALL THRESHOLDS TO BE 1/2" MAX. HEIGHT, BEVELED TO 1:2 SLOPE.

6.) ALL GLASS IN DOORS AND WITHIN 24" OF A DOOR TO BE SAFETY TEMPERED GLASS (T).

7.) *SEE DOOR TYPES* DIMENSION NOTED IS FROM FINISHES FLOOR TO BOTTOM OF GLAZING.

8.) ALL DOOR HARDWARE TO BE MOUNTED A MINIMUM OF 34 INCHES ABOVE FINISHED FLOOR AND A MAXIMUM OF 48 INCHES ABOVE FINISHED FLOOR.

9.) ALL EXISTING DOOR/FRAME SIZED TO BE FIELD VERIFIED.

10.) EXISTING DOOR HINGES TO REMAIN.

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DOOR SCHEDULE

LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

A601

ELECTRICAL NOTES

DEMOLITION NOTES

1. WHERE EXISTING FACILITIES ARE BEING ALTERED, DISCONNECT AND REMOVE OR RELOCATE AND EXTEND ALL EXISTING ELECTRICAL WORK THAT INTERFERES WITH OR IS NECESSARY DUE TO SCOPE OF RENOVATION AS SPECIFIED, SHOWN OR REQUIRED. CONTRACTOR TO RELOACTE ANY CONDUIT IN THE WAY OF NEW CONSTRUCTION.
2. WHERE SPECIFIED OR REQUIRED, EXTEND EXISTING SYSTEMS OR TIE INTO SAME TO PROVIDE A COMPLETE COORDINATED ELECTRICAL SYSTEM TO SATISFACTION OF OWNER AND ENGINEER.
3. ALL EXISTING WORK TO REMAIN ACTIVE, BUT DITURBED OR DISCONNECT DUE TO ALTERATIONS PER THIS RENOVATION SHALL BE REPLACED AND PUT IN OPERATING CONDITION AS REQUIRED TO MAINTAIN CONTINUITY UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ENGINEER.
4. ALL DISCONNECTED OR ABANDONED WIRE, CABLE AND SURFACE CONDUIT OR RACEWAYS WITHIN THIS CONTRACT SHALL BE REMOVED.
5. ALL EXISTING BUILDING MATERIALS DAMAGED DURING RENOVATIONS SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO CEILING TILES, GRIDS, FLOORING, PARTITIONS AND SIMILAR BUILDING ELEMENTS. ALL DAMAGES TO EXISTING ELEMENTS SHALL BE REPAIRED TO A QUALITY AND FINISH LEVEL OF ADJACENT AREAS/SURFACES AND SUBJECT TO THE APPROVAL OF OWNER AND ENGINEER.
6. PROVIDE PHYSICAL AND DUST PROTECTION OF OWNER'S EQUIPMENT, FURNITURE AND FLOORING DURING RENOVATION. EQUIPMENT PROTECTION SHALL BE INSTALLED AND REMOVED ON A DAILY BASIS AS DIRECTED BY OWNER.
7. ALL ELECTRICAL WORK DAMAGED DURING RENOVATION SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR. THIS SHALL INCLUDE, BUT NOT LIMITED TO; RACEWAYS, WIREWAYS, BACKBOXES, LIGHTING FIXTURES, LAMPS, WIRING DEVICES AND SIMILAR ELECTRICAL EQUIPMENT. ALL DAMAGE SHALL BE REPAIRED TO A QUALITY LEVEL SUBJECT TO APPLICABLE CODE AND APPROVAL OF OWNER AND ENGINEER.
8. PROVIDE A FINISH GRADE COVERPLATE FOR ALL WALL AND FLOOR BOX DEVICES TO BE REMOVED.
9. EXISTING CONDUIT WIREWAYS AND BACKBOXES (IF IT IS AT CODE APPROVED HEIGHT) MAY BE REUSED, WHERE NOTED. THE CONTRACTOR SHALL FIELD VERIFY CONDUIT AND BOX SUITABILITY. PROVIDE NEW AS REQUIRED BY ACTUAL FIELD CONDITIONS.
10. PROVIDE TOUCH-UP PAINT AND FINISH PAINTING AS REQUIRED IN AREAS AFFECTED BY REMOVAL OF EXISTING EQUIPMENT OR INSTALLTION OF NEW. FINISH AND QUALITY LEVEL SHALL MATCH ADJACENT AREAS AND BE SUBJECT TO APPROVAL OF OWNER AND ENGINEER.
11. PERFORM ALTERATIONS AND CONNECTION TO EXISTING FACILITIES WITH A MINIMUM INTERRUPTION. WHERE INTERRUPTION IS REQUIRED, PREPARE A TIME SCHEDULE AND DURATION, COORDINATE AND OBTAIN WRITTEN APPROVAL FROM PRINCIPAL AND OWNER (SDP). PROVIDE AND PLACE NOTICES IN AFFECTED AREAS AND ON FIXTURES OR EQUIPMENT WHICH WILL BE TEMORARILY OUT OF USE. REMOVE NOTICES WHEN INTERRUPTION IS COMPLETE.
12. DISCONNECT AND REMOVE ALL EXISTING SWITCHES AND LIGHT FIXTURES. REMOVE EXISTING LIGHT FIXTURE CONTROL WIRING WITHIN THE ROOM. KEEP EXISTING LIGHTING CIRCUITS FOR REUSE AND CONNECTION FOR NEW LIGHTING FIXTURES WIRING.
13. DURING RENOVATION PROVIDE ALL TEMPORARY LIGHTING AND POWER AS REQUIRED. COORDINATE WITH ALL OTHER TRADES FOR TEMPORARY POWER REQUIREMENTS.
14. ALL DEMOLITION/REMOVAL SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER WITH GREAT EMPHASIS ON MINIMIZING COLLATERAL DAMAGE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSAL THEREOF, UNLESS SPECIFICALLY NOTED OTHERWISE.
16. IT IS INTENDED THAT ALL SURFACE BOXES, CONDUIT AND CABLES BE REMOVED. ALL WIRING TO BE REMOVED, BOXES AND CONDUIT EMBEDDED IN CONCRETE OR WALLS MAY REMAIN. CONDUIT TO BE CUT AT WALL BOUNDARY, BOXES TO BE COVERED WITH A STAINLESS STEEL BLANK COVER.

CODES

1. PENNSYLVANIA UNIFORM CONSTRUCTION CODE (PA UCC)
2. PHILADELPHIA EXISTING BUILDING CODE (2009)
3. INTERNATIONAL BUILDING CODE (IBC 2003)
4. PHILADELPHIA ENERGY CONSERVATION CODE
5. PHILADELPHIA FIRE CODE
6. PHILADELPHIA ELECTRICAL CODE
7. PHILADELPHIA PERFORMANCE CODE
8. PENNSYLVANIA DEPARTMENT OF EDUCATION REGULATION

ELECTRICAL LEGEND

DEMOLITION

NOTE: REFER TO DEMOLITION DRAWINGS & NOTES FOR REQUIREMENTS.

- R: EXISTING TO BE REMOVED.
- E: EXISTING TO REMAIN.
- ER: EXISTING TO BE RELOCATED.
- RE: RELOCATED EXISTING DEVICE IN NEW LOCATION.
- ITEMS SHOWN DASHED INDICATE EXISTING TO BE REMOVED.
- LIGHT LINES INDICATE EXISTING TO REMAIN.

ABBREVIATIONS

A, AMP	AMPERES	G, GND	GROUND
AB	ABOVE	GC	GENERAL CONTRACTOR
AC	ALTERNATE CURRENT	GFI	GROUND FAULT INRERRUPTER
AFF	ABOVE FINISHED FLOOR	IG	ISOLATED GROUND
ARCH	ARCHITECTURAL, ARCHITECT	INCAND	INCANDESCENT
BEL	BELOW	KAIC	KILOAMP INTERRUPTING CURRENT
BKR	BREAKER	KVA	KILOVOLT AMPERES
C	CONDUIT	KW	KILOWATTS
CEIL	CEILING	LT(S)	LIGHT(S)
CKT	CIRCUIT	M	METER
CM	CENTIMETER	MECH	MECHANICAL
DC	DIRECT CURRENT	MH	MOUNTING HEIGHT
D/S	DISCONNECT SWITCH	MLO	MAIN LUGS ONLY
DISC	DISCONNECT SWITCH	MM	MILLIMETER
DWG	DRAWING	MTD	MOUNTED
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE
EF	EXHAUST FAN	NO.,#	NUMBER
ELEC	ELECTRICAL	NTS	NOT TO SCALE
EM	EMERGENCY	P	POLE
EQUIP	EQUIPMENT	PH, ⏥	PHASE
EXIST	EXISTING	PNL	PANEL
FA	FIRE ALARM	RECEP	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL	RM	ROOM
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TELE	TELEPHONE
FIXT	FIXTURE	TYP	TYPICAL
FLA	FULL LOAD AMPERES	UON	UNLESS OTHERWISE NOTED
FLUOR	FLUORESCENT	V	VOLTS
		W	WATTS
		W/	WITH
		WP	WEATHERPROOF

GENERAL

- (#) INDICATES PLAN NOTE.
- (#) INDICATES REVISION. CLOUDED AREA CONTAINS THE REVISION.
- [#] INDICATES ROOM NUMBER.
- BRANCH CIRCUIT HOMERUN
- CONDUIT UP
- CONDUIT DOWN
- GROUND

ELECTRICAL LEGEND

LIGHTING

NOTE: REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES.

- A: CAPITAL LETTER ADJACENT TO FIXTURE INDICATES TYPE.
- a: LOWER CASE LETTER INDICATES SWITCHING.
- NL: INDICATES NIGHT LIGHTING - UNSWITCHED FIXTURE.
- SHADED CIRCLE INDICATES FIXTURE ON EMERGENCY CIRCUIT.
- 2'X4' FLUORESCENT/LED LIGHT FIXTURE - SURFACE OR RECESSED.
- 1'X4' FLUORESCENT/LED LIGHT FIXTURE - SURFACE/RECESSED/PENDANT.
- SQUARE DOWNLIGHT FIXTURE - SURFACE OR RECESSED.
- CIRCULAR DOWN LIGHT FIXTURE - RECESSED.
- EMERGENCY BATTERY PACK LIGHT FIXTURE.
- CEILING/WALL MOUNTED EXIT SIGN - SINGLE FACE. PROVIDE DIRECTIONAL ARROWS PER PLANS.
- CEILING/WALL MOUNTED EXIT SIGN - DOUBLE FACE. PROVIDE DIRECTIONAL ARROWS PER PLANS.
- S 20A, 1P, 120/277V TOGGLE TYPE LIGHT SWITCH.
- S_3 20A, 3-WAY, 120/277V TOGGLE TYPE LIGHT SWITCH.
- DS DIMMER SWITCH. NUMBER INDICATES WATTAGE.
- (OS) CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. SIMILAR TO LUTRON MODEL # LOS-CDT-1000-WH OR APPROVED EQUAL.
- [PP] POWER PACK SIMILAR TO LUTRON MODEL #PP-DV OR AN APPROVED EQUAL. .

POWER

NOTES: REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.

- WP: WEATHER PROOF (NEMA 3R)
- IG: ISOLATED GROUND.
- GFI: GROUND FAULT INTERRUPTER.
- GFCI: GROUND FAULT CIRCUIT INTERRUPTER.
- WALL MOUNTED 20A SINGLE RECEPTACLE (18" AFF UON).
- WALL MOUNTED 20A DUPLEX RECEPTACLE. (18" AFF UON).
- WALL 20A QUADRUPLEX RECEPTACLE. (18" AFF UON).
- T WALL MOUNTED 20A SINGLE TAMPER RESISTANT RECEPTACLE (18" AFF UON).
- T WALL MOUNTED 20A DUPLEX TAMPER RESITANT RECEPTACLE. (18" AFF UON).
- T WALL 20A QUADRUPLEX TAMPER RESISTANT RECEPTACLE. (18" AFF UON).
- T FLOOR MOUNTED 20A DUPLEX TAMPER RESISTANT RECEPTACLE.
- CEILING MOUNTED 20A SIMPLEX RECEPTACLE.
- CEILING MOUNTED 20A DUPLEX RECEPTACLE.
- CEILING MOUNTED QUADRUPLEX RECEPTACLE.
- FLOOR MOUNTED 20A SIMPLEX RECEPTACLE.
- FLOOR MOUNTED 20A DUPLEX RECEPTACLE.
- FLOOR MOUNTED 20A QUADRUPLEX RECEPTACLE.
- (J) CEILING MOUNTED JUNCTION BOX.
- [J] WALL MOUNTED JUNCTION BOX.
- DISCONNECT SWITCH - NON-FUSED.
- SURFACE MOUNTED PANEL.
- RECESSED PANEL.

ELECTRICAL LEGEND

SPECIAL SYSTEMS

- # ▽ DATA OUTLET, "#" INDICATES # OF DATA PORTS IF MORE THAN ONE PORT. PROVIDE PLENUM RATED CAT6 CABLE IN 3/4" EMT C, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- ▽ DATA OUTLET. PROVIDE PLENUM RATED CAT6 CABLE IN 3/4" EMT C, UNLESS OTHERWISE NOTED.
- ▼ TELEPHONE OUTLET.
- [AV] WALL MOUNTED AUDIO/VISUAL OUTLET.
- (S) CEILING MOUNTED SPEAKER.
- (S) WALL MOUNTED SPEAKER.
- (C) W WIRELESS CLOCK BATTERY OPERATED, SEE SPECIFICATION 275313.
- (C) WIRED CLOCK SYSTEM OUTLET.
- [WAP] WIRELESS ACCESS POINT.

LIGHTING FIXTURE SCHEDULE

ID	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMP DATA NO	WATTS	TYPE	VOLTS	NOTES
A	2'x4' LED RECESSED FIXTURE	COLUMBIA LIGHTING LEPC24-35VLG-LL-B	N/A	45.00 W	LED	277	N/A
B	RECESSED 1X4	LITHONIA TL4-20L-FW-SWL-LP835	N/A	21 W	LED	277	N/A

1

ELECTRICAL LEGEND

SHEET NAMING LEGEND

E111A

- DISCIPLINE: "ED" DEMO, "E" NEW WORK
- PLAN TYPE: "1" FLOOR PLAN, "2" ENLARGED FLOOR ETC.
- SYSTEM TYPE: "0" SITE, "1" LIGHTING, "2" POWER, "3" FIRE ALARM
- FLOOR LEVEL: "0" LOWEST FLOOR, "1" NEXT FLOOR LEVEL ETC.
- SECTOR

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DRAWING TITLE

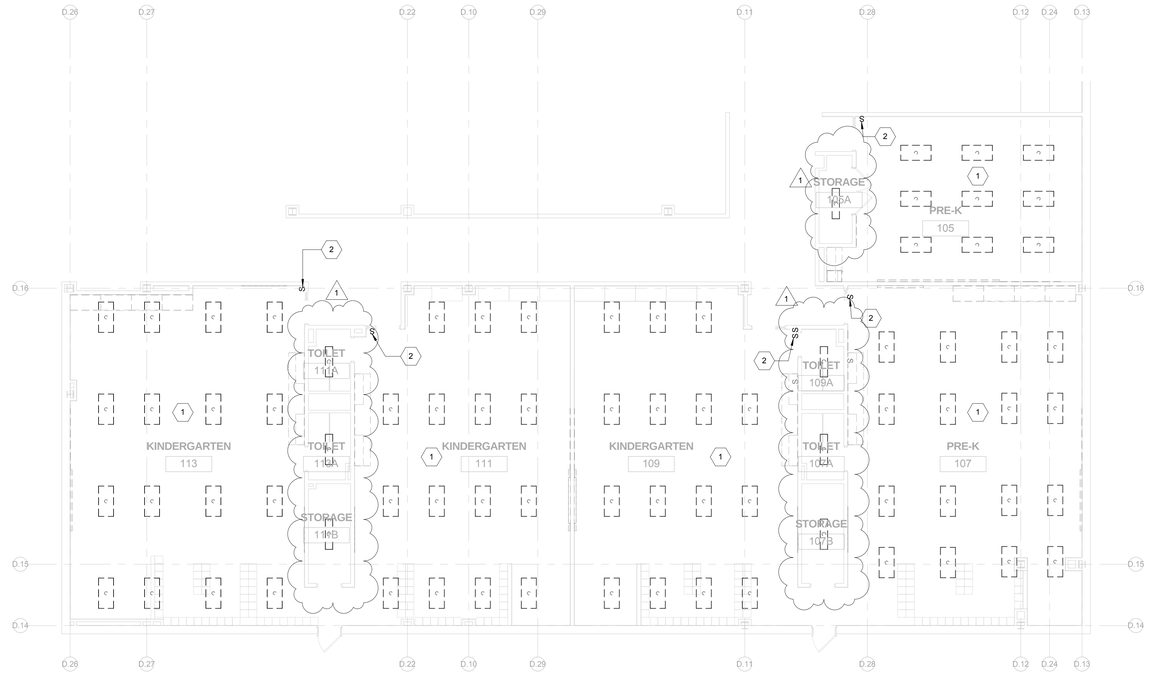
ELECTRICAL COVER SHEET

LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

E001



FIRST LEVEL - LIGHTING FLOOR PLAN - DEMOLITION - CLASSROOMS 201, 202, 203, 204, 205, 206, 207, 209, AND 211

1 1/8" = 1'-0"

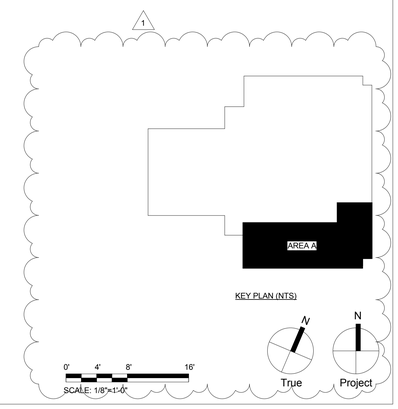
GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

1 DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURE. EXISTING LIGHTING CIRCUIT TO REMAIN.

2 DISCONNECT AND REMOVE ALL EXISTING LIGHT SWITCH WITH COVER PLATE, EXISTING CIRCUIT TO REMAIN. PROVIDE NEW DIMMER SWITCHES IN ITS PLACE WITH COVER PLATE, AND RECONNECT TO EXISTING LIGHTING CIRCUIT.



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APRIL 20, 2018

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1	05/09/18	ADDENDUM 1

SCHOOL & LOCATION

Edward T. Steel Elementary School

4301 Wayne Avenue, Philadelphia, PA 19140

PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

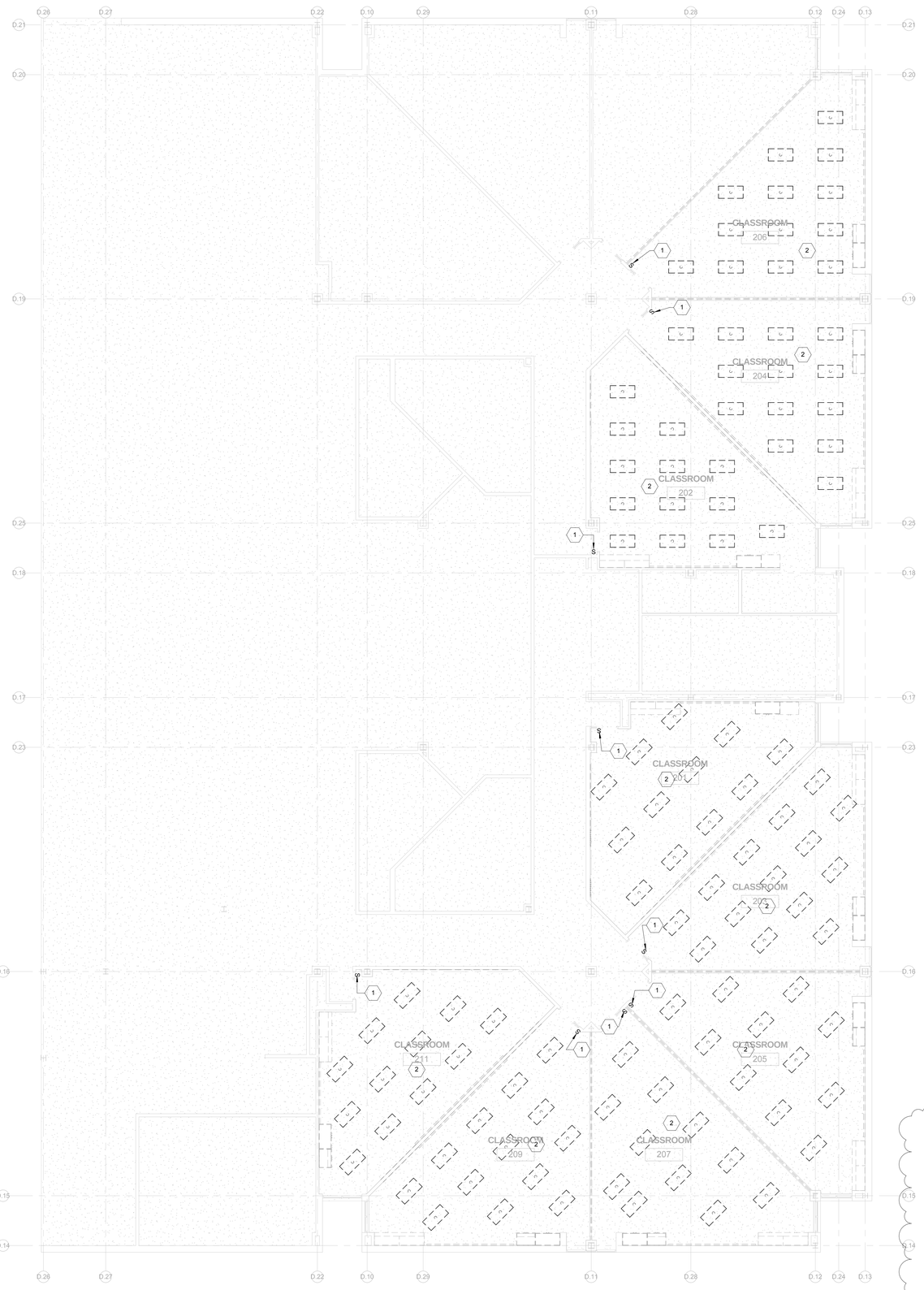
DRAWING TITLE

FIRST LEVEL - LIGHTING FLOOR PLAN - DEMO

LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*
B-067 C **OF** *2017/18*	
B-070 C **OF** *2017/18*	

DRAWING NO.

ED111



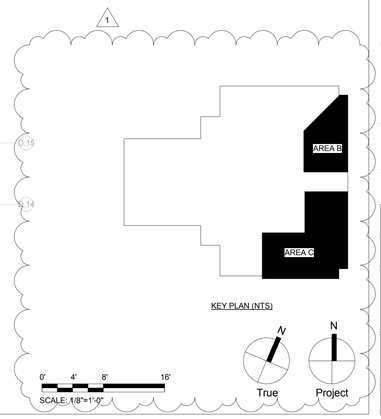
1 SECOND LEVEL - LIGHTING FLOOR PLAN - DEMOLITION - CLASSROOM 202 TO 211
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

#	
1	DISCONNECT AND REMOVE ALL EXISTING LIGHT SWITCH WITH COVER PLATE, EXISTING CIRCUIT TO REMAIN. PROVIDE NEW DIMMER SWITCHES IN ITS PLACE WITH COVER PLATE, AND RECONNECT TO EXISTING LIGHTING CIRCUIT.
2	DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURE. EXISTING LIGHTING CIRCUIT TO REMAIN.



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PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE

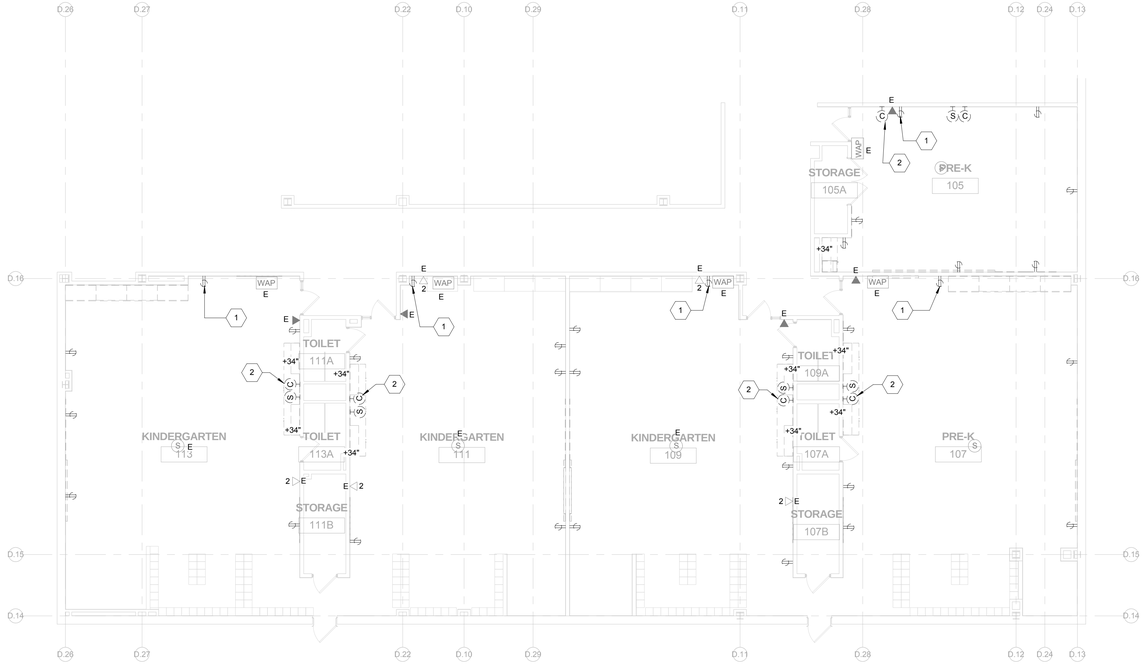
SECOND LEVEL - LIGHTING FLOOR PLAN - DEMO

LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

ED112



1 FIRST LEVEL - POWER FLOOR PLAN - DEMOLITION- CLASSROOM 105 TO 113

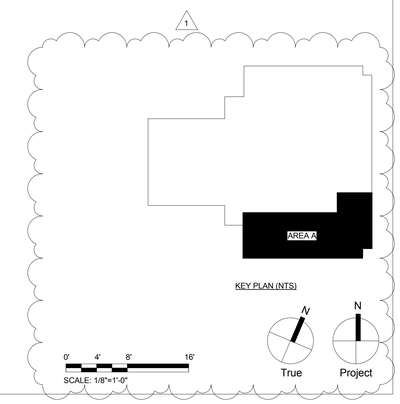
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

#	
1	DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES WITH COVER PLATE. EXISTING CIRCUIT TO REMAIN. PROVIDE NEW TAMPER RESISTANT RECEPTACLES WITH COVER PLAT, AND RECONNECT TO EXISTING CIRCUIT.
2	DISCONNECT AND REMOVE ALL EXISTING SYNCHRONOUS CLOCKS. PROVIDE BLANK COVER PLATE. PATCH AND PAINT TO MATCH EXISTING SURFACES.



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PROJECT TITLE

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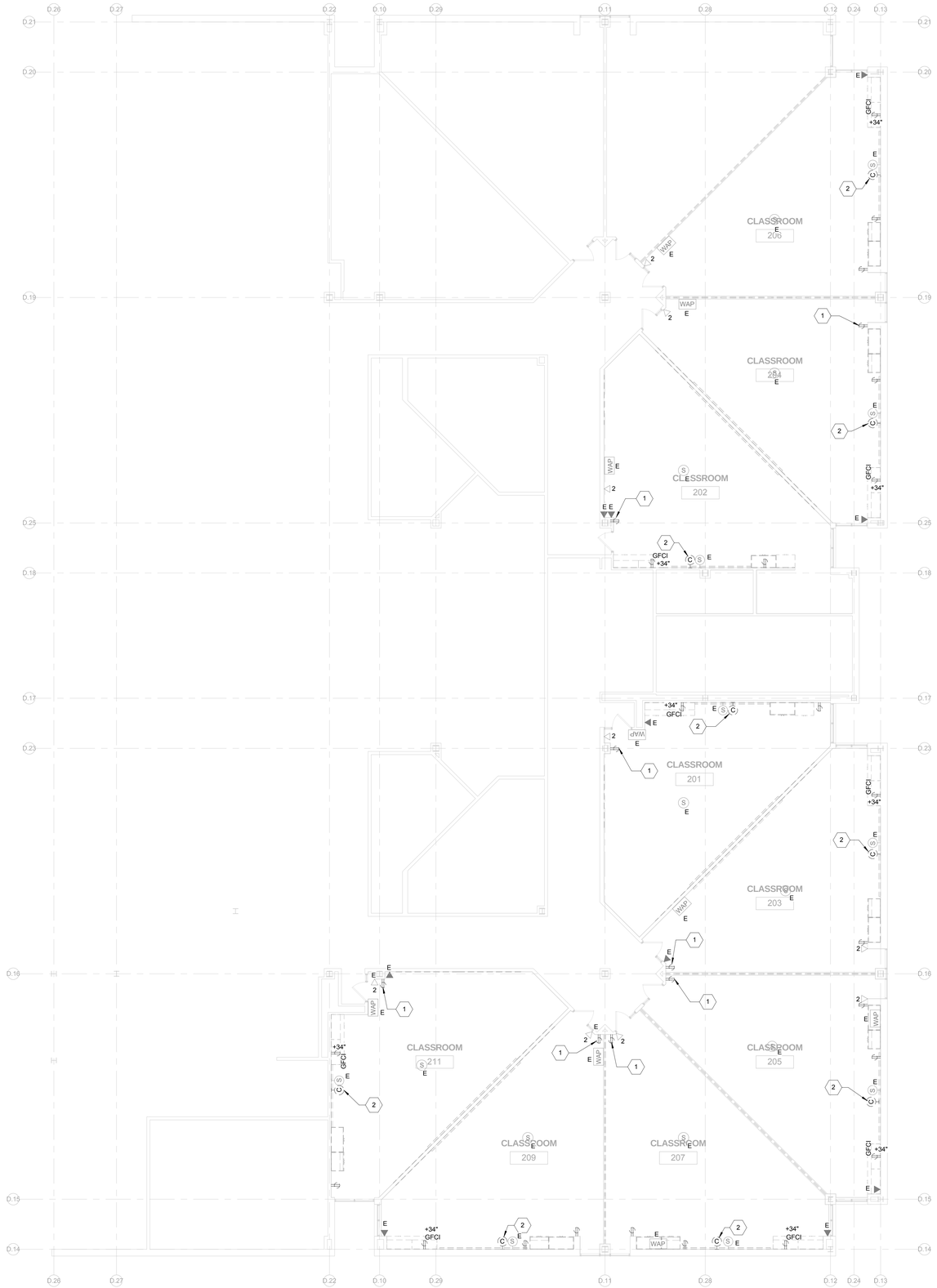
DRAWING TITLE

FIRST LEVEL - POWER FLOOR PLAN - DEMO

LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*
B-067 C **OF** *2017/18*	
B-070 C **OF** *2017/18*	

DRAWING NO.

ED121



SECOND LEVEL - POWER FLOOR PLAN - DEMOLITION - CLASSROOM 201, 202, 203, 204, 205, 206, 207, 209, AND 211

1/8" = 1'-0"

KEY PLAN (NTS)

0' 4' 8' 16'

SCALE: 1/8"=1'-0"

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

#	
1	DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES WITH COVER PLATE. EXISTING CIRCUIT TO REMAIN. PROVIDE NEW TAMPER RESISTANT RECEPTACLES WITH COVER PLAT, AND RECONNECT TO EXISTING CIRCUIT.
2	DISCONNECT AND REMOVE ALL EXISTING SYNCHRONOUS CLOCKS. PROVIDE BLANK COVER PLATE. PATCH AND PAINT TO MATCH EXISTING SURFACES.

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APRIL 20, 2018

NO.	DATE	REVISION
1	05/09/18	ADDENDUM 1

SCHOOL & LOCATION

Edward T. Steel Elementary School
4301 Wayne Avenue, Philadelphia, PA 19140

PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

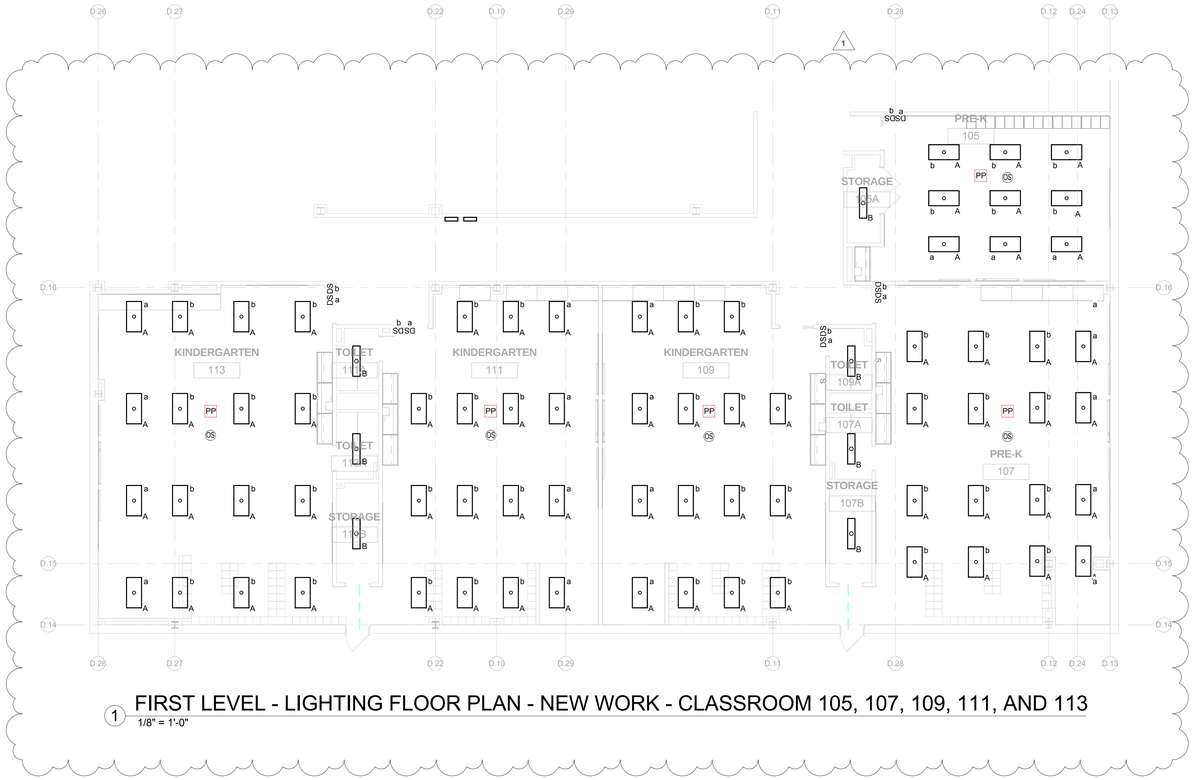
DRAWING TITLE

SECOND LEVEL - LIGHTING FLOOR PLAN - NEW

LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.
ED122



1 FIRST LEVEL - LIGHTING FLOOR PLAN - NEW WORK - CLASSROOM 105, 107, 109, 111, AND 113

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

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SCHOOL & LOCATION

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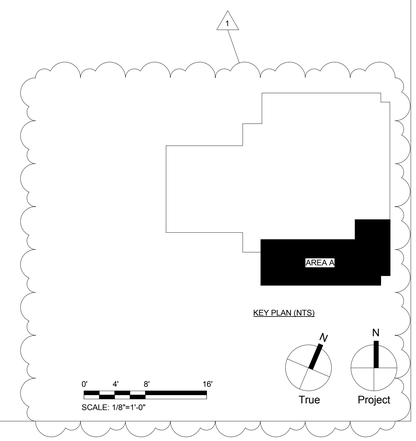
PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE

FIRST LEVEL - LIGHTING FLOOR PLAN - NEW



LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*
B-067 C **OF** *2017/18*	
B-070 C **OF** *2017/18*	
DRAWING NO. E111	

1 SECOND LEVEL - LIGHTING FLOOR PLAN - NEW WORK - CLASSROOM 202 TO 211
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

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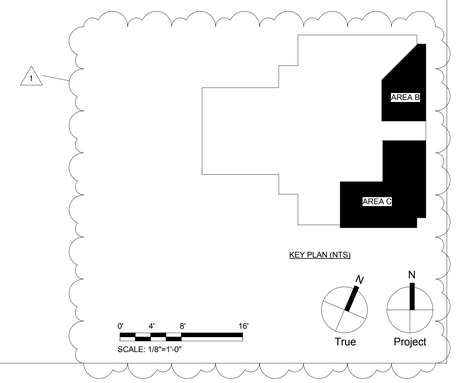
SECOND LEVEL - LIGHTING FLOOR PLAN - NEW



KEY PLAN (NTS)

SCALE: 1/8"=1'-0"

N True / N Project

LOCATION NO. *XX-XXX*		FILE NO.	
DRAWN BY *Author*		CHECKED BY *Checker*	
B-067 C	**OF**	*2017/18*	
B-070 C	**OF**	*2017/18*	

DRAWING NO.
E112

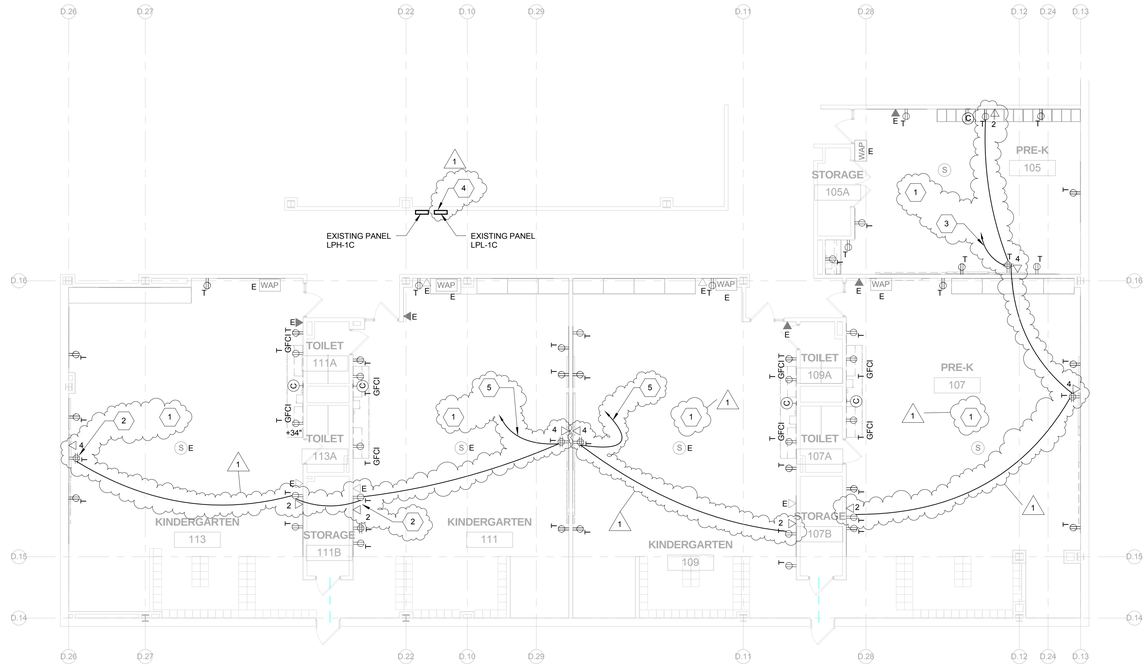
MAXIMUM 20A BRANCH CIRCUIT LENGTH TO FARTHEST OUTLET, ONE WAY, O.U.N.						
AWG	120V, 1PH			277V, 1PH		
#12	65'	-	-	150'	-	-
#10	-	125'	-	-	275'	-
#8	-	-	200'	-	-	-

GENERAL NOTES

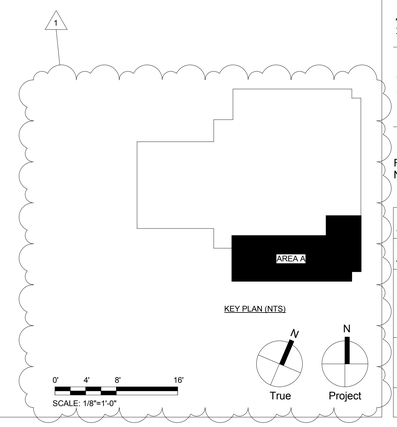
1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

#	
1	PROVIDE NEW TAMPER-RESISTANT WITH COVER PLATE RECEPTACLE IN EXISTING BACK BOX AND CONNECT TO EXISTING CIRCUIT.
2	SURFACE MOUNT NEW RECEPTACLE, DATA OUTLET AND ASSOCIATED CONDUITS. CONTRACTOR SHALL COORDINATE LOCATION AND ITS FEASABILITY OF NEW RECEPTACLE AND DATA OUTLET PRIOR TO INSTALLATION.
3	CONNECT TO AN EXISTING 20A,1P SPARE CIRCUIT BREAKER #9 IN PANEL LPL-1C.
4	DISCONNECT AND REMOVE EXISTING 50A,2P SPARE CIRCUIT BREAKER #28, 30 IN PANEL LPL-1C. IN PLACE PROVIDE (2) 20A,1P,120V CIRCUIT BREAKER.
5	CONNECT TO EACH CIRCUIT TO AN EXISTING 20A,1P SPARE CIRCUIT BREAKER #28,30 IN PANEL LPL-1C.



1 FIRST LEVEL - POWER FLOOR PLAN - NEW WORK - CLASSROOMS 105, 107, 109, 111 AND 113
1/8" = 1'-0"



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DRAWING TITLE

FIRST LEVEL - POWER FLOOR PLAN - NEW

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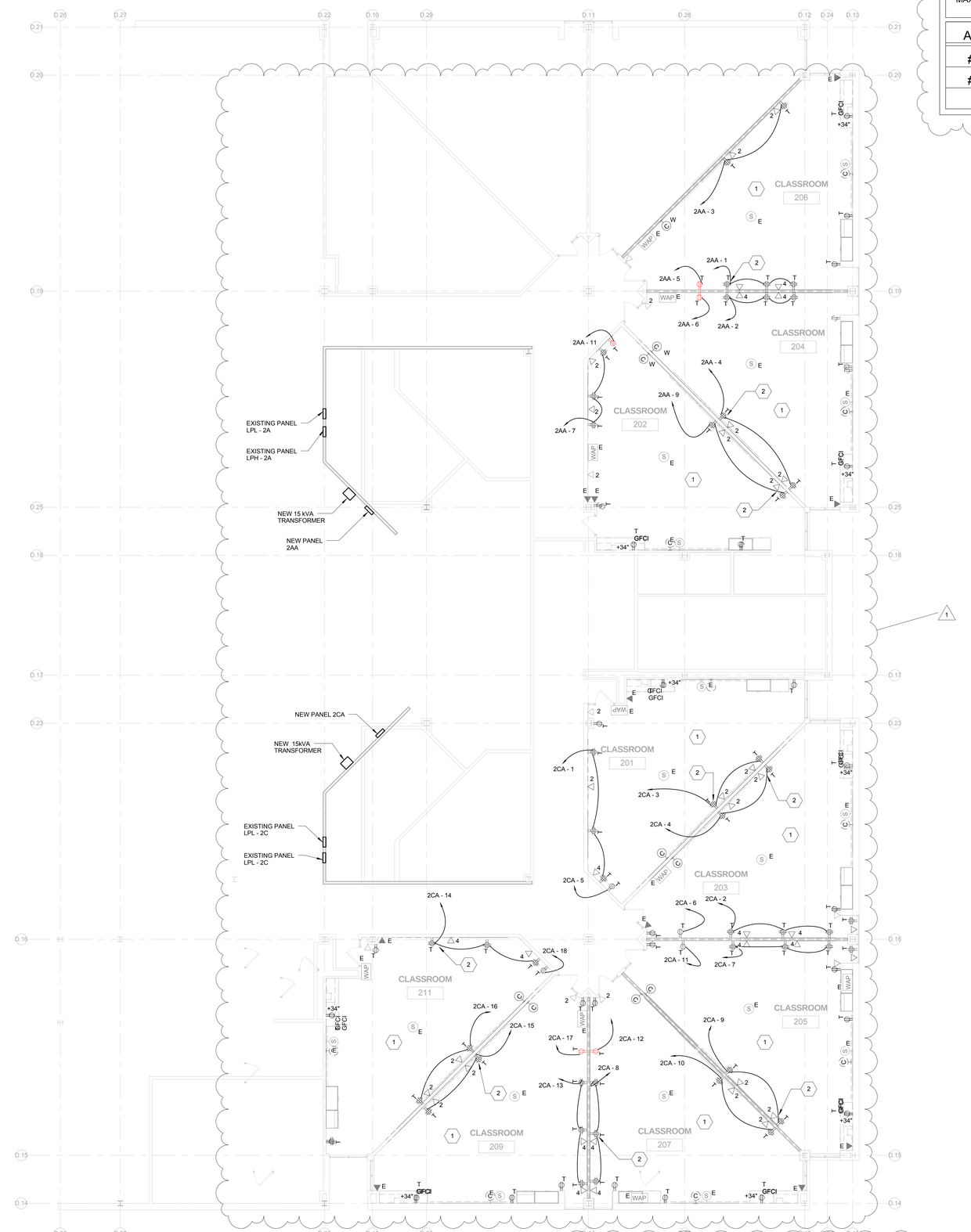
DRAWN BY *Author*	CHECKED BY *Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

E121



SECOND LEVEL - POWER FLOOR PLAN - NEW WORK - CLASSROOMS 201, 202, 203, 204, 205, 206, 207, 209, AND 211

1/8" = 1'-0"

MAXIMUM 20A BRANCH CIRCUIT LENGTH TO FARTHEST OUTLET, ONE WAY, O.U.N.						
AWG	120V, 1PH			277V, 1PH		
#12	65'	-	-	150'	-	-
#10	-	125'	-	-	275'	-
#8	-	-	200'	-	-	-

GENERAL NOTES

1. REFER TO E001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.

KEYED NOTES

1 PROVIDE NEW TAMPER-RESISTANT WITH COVER PLATE RECEPTACLE IN EXISTING BACK BOX AND CONNECT TO EXISTING CIRCUIT.

2 SURFACE MOUNT NEW RECEPTACLE, DATA OUTLET AND ASSOCIATED CONDUITS. CONTRACTOR SHALL COORDINATE LOCATION AND ITS FEASABILITY OF NEW RECEPTACLE AND DATA OUTLET PRIOR TO INSTALLATION.

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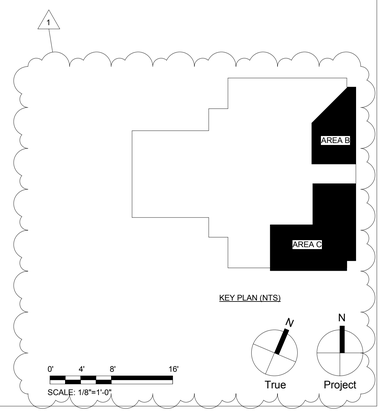
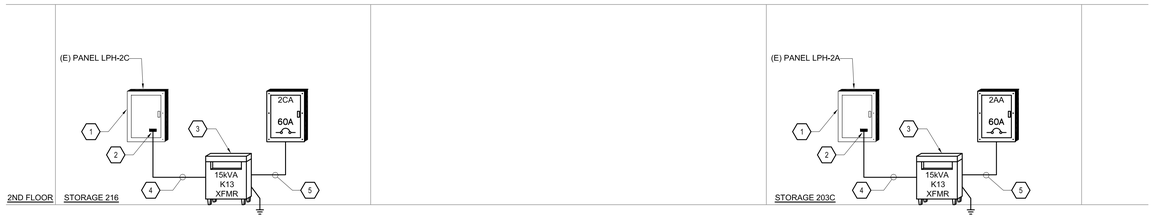


LOCATION NO.	FILE NO.
XX-XXX	
DRAWN BY	CHECKED BY
Author	*Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

E122



1 PARTIAL POWER RISER DIAGRAM
SCALE: N.T.S.

GENERAL NOTES

1. SEE DRAWING E001 FOR ELECTRICAL SYMBOLS, GENERAL NOTES AND ABBREVIATIONS.

(#) SPECIFIC NOTES

1. EXISTING 225A, 3Ø, 4W, 277/480V WITH 200A MCB.
2. PROVIDE 25A, 3P, 480V CIRCUIT BREAKER IN EXISTING BLANK SPACES. ELECTRICAL CHARACTERISTICS (AIC AND TYPE) OF THE NEW CIRCUIT BREAKER SHALL MATCH EXISTING CIRCUIT BREAKER .
3. 15kVA, 480V DELTA PRIMARY/ 208Y/120 SECONDARY K13 COPPER WINDING TRANSFORMER.
4. 3#10+1#10G-3/4"C.
5. 4#6+1#10G-1"C.

PANELBOARD NAME: 2CA (NEW) (NEW) ◉ NEW ○ EXISTING ◉ 1 SEC ○ 2 SEC

VOLTAGE: **208Y/120V** BUS RATING: **100A** POLES: **30** MINIMUM A.I.C. RATING (A): **14,000**

PH/WIRE: **3 PHASE, 4 WIRE + GROUND** MAIN: **60A MCB** MOUNTING: **SURFACE** SERVICE: **NORMAL**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	PHASE LOAD (VA) B	PHASE LOAD (VA) C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	R	CLASSROOM 201 REC.	1	20	1080	2160			1080	1	20	CLASSROOM 203 REC.	R	2
3	R	CLASSROOM 201 REC.	1	20	720		1440		720	1	20	CLASSROOM 203 REC.	R	4
5	R	CLASSROOM 201 REC.	1	20	180			360	180	1	20	CLASSROOM 203 REC.	R	6
7	R	CLASSROOM 205 REC.	1	20	1080	2160			1080	1	20	CLASSROOM 207 REC.	R	8
9	R	CLASSROOM 205 REC.	1	20	720		1440		720	1	20	CLASSROOM 207 REC.	R	10
11	R	CLASSROOM 205 REC.	1	20	180			360	180	1	20	CLASSROOM 201 REC.	R	12
13	R	CLASSROOM 209 REC.	1	20	1080	2160			1080	1	20	CLASSROOM 211 REC.	R	14
15	R	CLASSROOM 209 REC.	1	20	720		1440		720	1	20	CLASSROOM 211 REC.	R	16
17	R	CLASSROOM 209 REC.	1	20	180			360	180	1	20	CLASSROOM 211 REC.	R	18
19		SPARE	1	20						1	20	SPARE		20
21		SPARE	1	20						1	20	SPARE		22
23		SPARE	1	20						1	20	SPARE		24
25		SPARE	1	20						1	20	SPARE		26
27		SPACE	--							--		SPACE		28
29		SPACE	--							--		SPACE		30
TOTAL CONNECTED LOAD (A):					33.0	18.0	12.0	3.0	(AMPS/PHASE)					
TOTAL CONNECTED LOAD (VA):					11,880	6,480	4,320	1,080	(VA/PHASE)					

#BOLD INDICATES NEW

PROVIDE ITEMS MARKED BELOW :	LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
☑ DOOR-IN-DOOR CONSTRUCTION	CONTINUOUS LOADS AND LIGHTING (@125%)	C				
☐ SHUNT TRIP ON MAIN DEVICE	RECEPTS (1st 10kVA @100% + REST @ 50%)	R	11,880	33	10,940	30
☐ FEED THRU LUGS	MECH.(LARGEST @ 125% + REST @ 100%)	M				
☐ SERVICE NEUTRAL	KITCHEN EQUIP. (PER NEC TABLE 220.56)	K				
☐ ISOLATED GROUND BUS	NON-CONTINUOUS LOADS (@100%)	N				
☐ 200% NEUTRAL	STANDBY LOADS	S				
☐ NEMA 3R	**TOTAL CONNECTED & DEMAND LOAD :**		**11.88 (kVA)**		**10.94 (kVA)**	
☑ OTHER: PROVIDE PANEL W/ INTEGRA SURGE PROTECTION (SDP)	**TOTAL CONNECTED & DEMAND LOAD :**		**32.98 (A)**		**30.37 (A)**	

PANELBOARD NAME: 2AA (NEW) (NEW) ◉ NEW ○ EXISTING ◉ 1 SEC ○ 2 SEC

VOLTAGE: **208Y/120V** BUS RATING: **100A** POLES: **30** MINIMUM A.I.C. RATING (A): **14,000**

PH/WIRE: **3 PHASE, 4 WIRE + GROUND** MAIN: **60A MCB** MOUNTING: **SURFACE** SERVICE: **NORMAL**

CKT NO.	LOAD TYPE	LOAD DESCRIPTION	BKR P	BKR TRIP	LOAD (VA)	PHASE LOAD (VA) A	PHASE LOAD (VA) B	PHASE LOAD (VA) C	LOAD (VA)	BKR P	BKR TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT NO.
1	R	CLASSROOM 206 REC.	1	20	1080	2160			1080	1	20	CLASSROOM 204 REC.	R	2
3	R	CLASSROOM 206 REC.	1	20	720		1440		720	1	20	CLASSROOM 204 REC.	R	4
5	R	CLASSROOM 206 REC.	1	20	180			360	180	1	20	CLASSROOM 204 REC.	R	6
7	R	CLASSROOM 202 REC.	1	20	1080	1080				1	20	SPARE		8
9	R	CLASSROOM 202 REC.	1	20	720		720			1	20	SPARE		10
11	R	CLASSROOM 202 REC.	1	20	180			180		1	20	SPARE		12
13		SPARE	1	20						1	20	SPARE		14
15		SPARE	1	20						1	20	SPARE		16
17		SPARE	1	20						1	20	SPARE		18
19		SPARE	1	20						1	20	SPARE		20
21		SPARE	1	20						1	20	SPARE		22
23		SPARE	1	20						1	20	SPARE		24
25		SPACE	--							--		SPACE		26
27		SPACE	--							--		SPACE		28
29		SPACE	--							--		SPACE		30
TOTAL CONNECTED LOAD (A):					16.5	9.0	6.0	1.5	(AMPS/PHASE)					
TOTAL CONNECTED LOAD (VA):					5,940	3,240	2,160	540	(VA/PHASE)					

#BOLD INDICATES NEW

PROVIDE ITEMS MARKED BELOW :	LOAD TYPE		CONNECTED VA	CONNECTED AMPS	DEMAND VA	DEMAND AMPS
☑ DOOR-IN-DOOR CONSTRUCTION	CONTINUOUS LOADS AND LIGHTING (@125%)	C				
☐ SHUNT TRIP ON MAIN DEVICE	RECEPTS (1st 10kVA @100% + REST @ 50%)	R	5,940	16	5,940	16
☐ FEED THRU LUGS	MECH.(LARGEST @ 125% + REST @ 100%)	M				
☐ SERVICE NEUTRAL	KITCHEN EQUIP. (PER NEC TABLE 220.56)	K				
☐ ISOLATED GROUND BUS	NON-CONTINUOUS LOADS (@100%)	N				
☐ 200% NEUTRAL	STANDBY LOADS	S				
☐ NEMA 3R	**TOTAL CONNECTED & DEMAND LOAD :**		**5.94 (kVA)**		**5.94 (kVA)**	
☑ OTHER: PROVIDE PANEL W/ INTEGRA SURGE PROTECTION (SDP)	**TOTAL CONNECTED & DEMAND LOAD :**		**16.49 (A)**		**16.49 (A)**	

THE SCHOOL DISTRICT OF PHILADELPHIA

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SEAL:

Farshad Majidian; PA PE Stamp.png

NAME (LICENSED PROFESSIONAL) / STATE AND LICENSE NO: DATE XX/XX/20XX

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BID DOCUMENTS
APRIL 20, 2018

NO.	DATE	REVISION
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

SCHOOL & LOCATION

Edward T. Steel Elementary School
4301 Wayne Avenue, Philadelphia, PA 19140

PROJECT TITLE

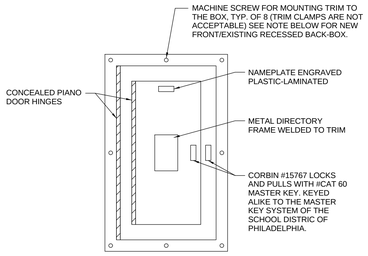
Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE
POWER RISER AND PANELBOARD SCHEDULES

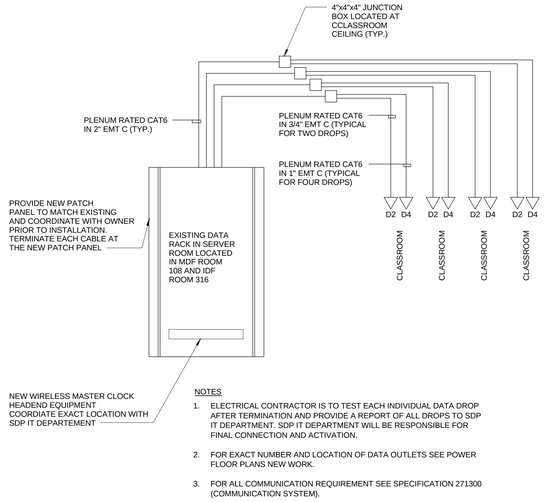
LOCATION NO.	FILE NO.
DRAWN BY	CHECKED BY

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.
E401



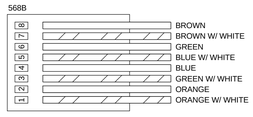
3 PANELBOARD FRONT STANDARD DETAIL
NTS



NOTES

1. ELECTRICAL CONTRACTOR IS TO TEST EACH INDIVIDUAL DATA DROP AFTER TERMINATION AND PROVIDE A REPORT OF ALL DROPS TO SDP IT DEPARTMENT. SDP IT DEPARTMENT WILL BE RESPONSIBLE FOR FINAL CONNECTION AND ACTIVATION.
2. FOR EXACT NUMBER AND LOCATION OF DATA OUTLETS SEE POWER FLOOR PLANS NEW WORK.
3. FOR ALL COMMUNICATION REQUIREMENT SEE SPECIFICATION 271300 (COMMUNICATION SYSTEM).

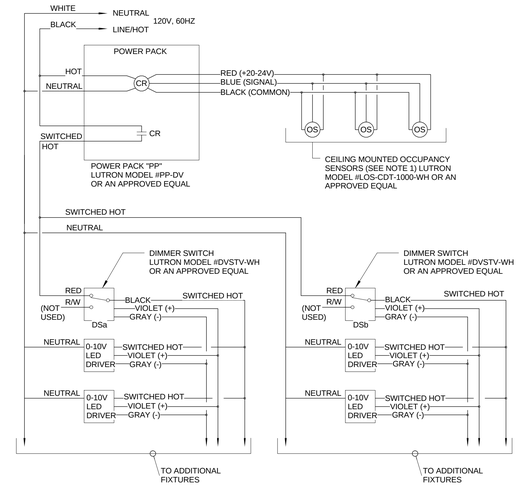
1 DATA RISER DIAGRAM
NTS



NOTE

1. ALL RJ45 TERMINATION POINTS SHALL BE CONFIGURED TO THE EIA/TIA 568B STANDARD UNLESS SPECIFICALLY DIRECTED OTHERWISE BY SDP AUTHORIZED REPRESENTATIVE.

4 RJ45 TERMINATION DETAIL
NTS



NOTES

1. MAXIMUM COMBINATION OF THREE OCCUPANCY SENSORS AND/OR RELAY UNITS PER CONTROL UNIT.
2. CONTRACTOR SHALL VERIFY CONTROLS COMPATIBILITY OF ALL DEVICE AND FIXTURE WITH MANUFACTURERS PRIOR TO PURCHASE.
3. DIAGRAM IS SCHEMATIC AND TO SHOW DESIGN INTENT AND IT IS BASED ON LUTRON PRODUCTS; CONTRACTOR SHALL VERIFY EXACT WIRING CONFIGURATION AND REQUIREMENTS PRIOR TO CONSTRUCTION.

TYPICAL CLASSROOM LED LIGHTING CONTROL SCHEMATIC CEILING OCCUPANCY SENSOR WITH TWO DIMMER SWITCHES
2 NTS

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BID DOCUMENTS
APRIL 20, 2018

NO.	DATE	REVISION

SCHOOL & LOCATION

Edward T. Steel Elementary School

4301 Wayne Avenue, Philadelphia, PA 19140

PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE

ELECTRICAL DETAILS

LOCATION NO. *XX-XXX*	FILE NO.
DRAWN BY *Author*	CHECKED BY *Checker*

B-067 C **OF** *2017/18*
B-070 C **OF** *2017/18*

DRAWING NO.

E501

MECHANICAL GENERAL NOTES

GENERAL

1. THE INTENT OF THESE DRAWINGS IS TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEMS. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS. CONTRACTOR IS OBLIGATED TO EXAMINE PLANS. ANY OBSERVED FAULTS OR AMBIGUITY IN THESE PLANS SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY, SO THAT THE MATTER MAY BE RESOLVED PRIOR TO SUBMISSION OF BIDS. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THESE PLANS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF PLANS WILL NOT BE CONSIDERED.
2. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE CODES AND REGULATIONS.
3. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO DEPICT THE GENERAL LOCATION OF HVAC SYSTEM COMPONENTS. CONSULT THE ARCHITECTURAL PLANS FOR PROPER DIMENSIONS AND LOCATION OF EQUIPMENT.
4. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HVAC WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE ARCHITECT SHALL BE ADVISED IMMEDIATELY, AND AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED.
5. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS AND ARRANGE FOR INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
6. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE BY THIS CONTRACTOR FOR BEAMS, COLUMNS OR OTHER OBSTRUCTIONS OF THE BUILDING OR THE WORK OF OTHER CONTRACTORS, WHETHER OR NOT SAME IS INDICATED. WHERE NECESSARY TO AVOID OBSTRUCTIONS THE DUCTS SHALL BE TRANSFORMED, DIVIDED, OFFSET, RAISED OR LOWERED WITH THE REQUIRED FREE AREA BEING MAINTAINED WHILE MAINTAINING DESIGNED CEILING HEIGHTS.
7. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. MECHANICAL CONTRACTOR SHALL THOROUGHLY CLEAN HIS WORK AREA DAILY. MECHANICAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH AFTER WORK COMPLETION.
9. WHERE EXISTING FIELD CONDITIONS ARE DIFFERENT THAN SHOWN, THE CONTRACTOR SHALL ADVISE THE ENGINEER OF DISCREPANCIES WHICH WILL AFFECT THE PROPOSED WORK PRIOR TO BEGINNING WORK.
10. SYMBOLS SHOWN ON SCHEDULES DEFINE TYPE OF EQUIPMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR RESEARCHING DRAWINGS FOR EXACT QUANTITIES REQUIRED OF EACH TYPE.
11. PRIOR TO INSTALLATION OF NEW WORK, CONTRACTOR SHALL VERIFY THAT ALL DUCTWORK, EQUIPMENT, PIPING, ETC., SHALL BE FREE FROM INTERFERENCE WITH EXISTING CONDITIONS. WHERE CONFLICTS OCCUR, CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER. WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER, OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR ALLOWS ONE TRADE TO INSTALL HIS WORK BEFORE COORDINATING WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL MAKE NECESSARY CHANGES TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
12. ALL WORK TO BE GUARANTEED FOR TWO YEAR AGAINST LABOR AND MATERIALS. ANY DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF ALL TRADES RESULTING FROM SAME, SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR THE DURATION OF THE GUARANTEE PERIOD. TIME FOR THIS GUARANTEE SHALL BEGIN FROM THE DATE OF ACCEPTANCE OF THE COMPLETE WORK BY THE OWNER OR HIS APPOINTED REPRESENTATIVE. NOTE: THESE GUARANTEES SHALL BE SUBMITTED TO THE TENANT AND/OR BUILDING OWNER FOR RECORD PURPOSES.
13. AS USED IN DRAWINGS AND SPECIFICATIONS FOR MECHANICAL WORK, CERTAIN NON-TECHNICAL WORDS SHALL BE UNDERSTOOD TO HAVE SPECIFIC MEANINGS AS FOLLOWS REGARDLESS OF INDICATIONS TO THE CONTRARY IN THE GENERAL CONDITION OR OTHER DOCUMENTS GOVERNING THE MECHANICAL WORK.

   "FURNISH" - PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK. PURCHASING SHALL INCLUDE PAYMENT OF ALL SALES TAXES AND OTHER SURCHARGES AS MAY BE REQUIRED TO ASSURE THAT PURCHASED ITEMS ARE FREE OF ALL LIENS, CLAIMS OR ENCUMBRANCES.

   "INSTALL" - UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK.

   "PROVIDE" - "FURNISH" AND "INSTALL".

   "NEW" - MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.
14. ALL MATERIAL, EQUIPMENT AND ACCESSORIES, FURNISHED AND INSTALLED SHALL BE NEW AND EQUAL TO OR SURPASS THE QUALITY OF SIMILAR MATERIALS AS SCHEDULES. ALL MATERIALS, EQUIPMENT AND METHODS SHALL BE AS SPECIFIED IN THE BASE BUILDING CONTRACT DOCUMENTS UNLESS NOTED OTHERWISE.

DEMOLITION

1. ANY DISCOVERED DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL SITE CONDITIONS MAY BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO BID FOR CLARIFICATION. AFTER A CONTRACT IS EXECUTED CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION.
2. THE REQUIRED DEMOLITION SHALL NOT BE LIMITED TO THAT PORTION SHOWN ON THE PLANS ALONE, BUT SHALL INCLUDE ALL NECESSARY WORK COINCIDENTAL THERETO AND/OR WORK INDICATED ELSEWHERE ON THE DRAWINGS OR IN THE SPECIFICATIONS.
3. CONTRACTOR SHALL NOT VIOLATE THE PHYSICAL SECURITY OF THE BUILDING DURING DEMOLITION OR ASSOCIATED OPERATIONS. SECURITY SHALL BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SCHEDULE ALL WORK, INCLUDING INTERRUPTION OF EXISTING UTILITIES, WITH THE OWNER, PRIOR TO STARTING WORK. CONTRACTOR SHALL NOTE THAT THE BUILDING SHALL BE OCCUPIED AND IN USE DURING THE PERIOD OF TIME THIS CONTRACT IS BEING PERFORMED.
5. DEMOLITION SHALL GENERALLY BE ARRANGED TO AGREE WITH THE ACCOMPLISHMENT OF WORK UNDER THE VARIOUS PHASES AND IN COORDINATION WITH THE REQUIRED MODIFICATIONS.
6. DO NOT ALTER THE EXISTING SYSTEMS WHICH ARE LOCATED IN AREAS NOT IN SCOPE OF WORK UNLESS SPECIFICALLY INDICATED. PROTECT EXISTING SYSTEMS WITHIN THE LIMITS OF WORK WHICH ARE TO BE RETAINED. ANY DAMAGE TO THE EXISTING SYSTEMS DUE TO CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO ITS ORIGINAL CONDITION TO THE COMPLETE SATISFACTION OF THE OWNER, AND AT NO COST TO THE OWNER.
7. UNLESS OTHERWISE INDICATED, ALL FIXTURES, EQUIPMENT, PIPING, AND ACCESSORIES WHICH HAVE TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AS SOON AS POSSIBLE.
8. "CONCEALED LOCATION" IS DEFINED AS BEING ABOVE FINISHED CEILING, BELOW FINISHED FLOOR, OR WITHIN FINISHED WALL OR PARTITION. SEE ARCHITECTURAL PLANS FOR FINISH INFORMATION.

PLUMBING GENERAL NOTES

GENERAL

1. THE INTENT OF THESE DRAWINGS IS TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEMS. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACHIEVE SUCH ENDS. CONTRACTOR IS OBLIGATED TO EXAMINE PLANS. ANY OBSERVED FAULTS OR AMBIGUITY IN THESE PLANS SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY, SO THAT THE MATTER MAY BE RESOLVED PRIOR TO SUBMISSION OF BIDS. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THESE PLANS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF PLANS WILL NOT BE CONSIDERED.
2. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
3. THE PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING WORK WITH OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE ENGINEER SHALL BE ADVISED IMMEDIATELY, AND AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS AND ARRANGE FOR INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
5. PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER. VERIFY SLAB PENETRATION LOCATIONS PRIOR TO PROCEEDING WITH WORK IN ORDER TO LOCATE OBSTRUCTIONS EMBEDDED IN SLAB.
6. ALL ROTATING PLUMBING EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. CONTROLS AND ACCESSORIES FOR EQUIPMENT SHALL BE PROVIDED BY EQUIPMENT MANUFACTURER.
9. PLUMBING CONTRACTOR SHALL THOROUGHLY CLEAN HIS WORK AREA DAILY AND SHALL ALSO REMOVE ALL TRASH AFTER WORK COMPLETION.
10. THE WORK DETAILED ON THESE PLANS IS BASED ON PREVIOUSLY PREPARED BASE BUILDING DRAWINGS. IF EXISTING FIELD CONDITIONS ARE DIFFERENT THAN SHOWN, THE CONTRACTOR SHALL ADVISE THE ENGINEER OF DISCREPANCIES WHICH WILL AFFECT THE PROPOSED WORK PRIOR TO BEGINNING WORK.
11. CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, PIPING, ETC., SHALL BE FREE FROM INTERFERENCE WITH OTHER DISCIPLINES. WHERE CONFLICTS OCCUR, CONTRACTOR SHALL IMMEDIATELY CONTACT THE CONSTRUCTION MANAGER. WHERE THE WORK OF VARIOUS TRADES WILL BE INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER, OR WHERE THERE IS EVIDENCE THAT THE WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF THE CONTRACTOR ALLOWS ONE TRADE TO INSTALL HIS WORK BEFORE COORDINATING WITH WORK OF OTHER TRADES, THE CONTRACTOR SHALL MAKE NECESSARY CHANGES TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
12. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, MAINTAINED IN FULLY ACCESSIBLE POSITION. EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, VALVES, TRAPS, CLEANOUTS, DRAIN POINTS, ETC. IF REQUIRED FOR ACCESSIBILITY, FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE. ALLOW FOR BETTER ACCESSIBILITY, AND ANY CHANGE FOR THAT PURPOSE SHALL BE APPROVED.
13. ALL WORK TO BE GUARANTEED FOR ONE YEAR AGAINST LABOR AND MATERIALS. ANY DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF ALL TRADES RESULTING FROM SAME, SHALL BE REPLACE OR REPAIRED AS DIRECTED FOR THE DURATION OF THE GUARANTEE PERIOD. TIME FOR THIS GUARANTEE SHALL BEGIN FROM THE DATE OF ACCEPTANCE OF THE COMPLETE WORK BY THE OWNER OR HIS APPOINTED REPRESENTATIVE. NOTE: THESE GUARANTEES SHALL BE SUBMITTED TO THE CO FOR RECORD PURPOSES.
14. PROVIDE CUTTING, PATCHING, AND/OR CORE DRILLING OF EXISTING WALLS AS REQUIRED FOR THE INSTALLATION OF NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING STRUCTURAL ENGINEER'S REVIEW AND APPROVAL AND INFORMING OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PERFORMING THIS WORK. PRIOR TO CORE DRILLING, THE CONTRACTOR SHALL PERFORM X-RAY OF AREA TO BE PENETRATED TO VERIFY PENETRATIONS ARE FREE OF OBSTRUCTIONS IN SLAB.

DEMOLITION

1. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
2. OWNER RETAINS THE RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDIANTE WITH OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT. FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
3. VERIFY THAT EXISTING EQUIPMENT TO REMAIN IS OPERATING PROPERLY. NOTIFY THE ARCHITECT, ENGINEER AND/OR OWNER OF ANY DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
4. ALL EXISTING INSTALLATIONS THAT ARE TO BE REMOVED, ABANDONED, RELOCATED, AND/OR CAPPED SHALL BE EXECUTED BEHIND FINISHED SURFACES. ALL SUCH WORK SHALL BE EXECUTED IN A PERMANENT MANNER. NO EXISTING PIPING TO BE ABANDONED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER.
5. IN ALL AREAS WHERE DEMOLITION WORK OCCUR, PATCH AND REPAIR TO MATCH NEW FINISH OR EXISTING FINISHES WHICH ARE TO REMAIN.
6. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
7. ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL AND OTHER SECTIONS OF THE CONTRACT DOCUMENTS.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED WITH A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
9. THE CONTRACTOR SHALL PROVIDE A PROPOSED SCHEDULE OF DEMOLITION WORK FOR REVIEW BY THE OWNER.
10. ANY ADDITIONAL DEMOLITION WORK DEEMED NECESSARY AND NOT INCLUDED WITHIN THE SCOPE OF THE CONTRACT DOCUMENTS SHALL BE EXECUTED ONLY UPON RECEIPT OF WRITTEN AUTHORIZATION FROM THE OWNER.
11. UNLESS OTHERWISE NOTED ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL REMAIN.
12. WHERE EXISTING EQUIPMENT IS TO BE REMOVED CONTRACTOR SHALL REMOVE ALL ASSOCIATED PIPING, CONDUIT, POWER, CONTROLS, INSULATION, HANGERS, DUCTWORK, SUPPORTS, HOUSEKEEPING PADS, ETC. PATCH AND REPAIR WALLS/ROOF/FLOOR TO MATCH EXISTING AND/OR NEW FINISHES.
13. THE CONTRACTOR SHALL PROVIDE NECESSARY PIPING, VALVES, TRAPS, TEMPORARY FEEDS, DRIPS, ETC. AS REQUIRED. DRAIN AND REFILL PIPING SYSTEMS AS OFTEN AS NECESSARY TO ACCOMMODATE PHASING AND TO MINIMIZE TIME LENGTH OF OUTAGES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND DETERMINING THE EXISTING CONDITIONS IN WHICH THE WORK IS TO BE PERFORMED.
15. WHERE ANY ABANDONED PIPES IN EXISTING FLOORS, WALLS, PIPE TUNNELS, CEILINGS, ETC. CONFLICT WITH NEW WORK, THE CONTRACTOR SHALL REMOVE ABANDONED PIPES AS NECESSARY TO ACCOMMODATE NEW WORK.
16. THE LOCATION OF ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC. INDICATED IS APPROXIMATE ONLY AND SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR. INSTALL ALL NEW MECHANICAL/PLUMBING/FIRE PROTECTION WORK TO CONNECT TO OR CLEAR EXISTING WORK AS APPLICABLE.
17. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MAINTAIN A WATER TIGHT FACILITY AT ALL TIMES.
18. MAINTAIN EGRESS AT ALL TIMES. COORDINATE EGRESS REQUIREMENTS WITH THE STATE FIRE MARSHAL, THE OWNER AND THE AUTHORITIES HAVING JURISDICTION.

DOUBLE LINE DUCTWORK

- 300x150 — RECTANGULAR DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- 300 — ROUND DUCT
- 300x150 — FLAT OVAL DUCT (FIRST FIGURE IS FOR SIDE SHOWN, SECOND FIGURE IS FOR SIDE NOT SHOWN)
- FLOW DIRECTION ARROW
- FLEX DUCT CONNECTION
- VD — VOLUME DAMPER
- M — MOTORIZED DAMPER
- B — BACK DRAFT DAMPER
- FD — FIRE DAMPER
- FSD — COMBINATION FIRE/SMOKE DAMPER
- SD — SMOKE DAMPER
- DUCT TRANSITION, ROUND OR FLAT OVAL TO RECTANGULAR
- DUCT TRANSITION, RECTANGULAR TO ROUND OR FLAT OVAL
- DUCT TRANSITION, RECTANGULAR, ROUND, OR FLAT OVAL
- R — INCLINED RISE W/RESPECT TO AIR FLOW, RECTANGULAR
- D — INCLINED DROP W/ RESPECT TO AIR FLOW, RECTANGULAR
- R — INCLINED RISE W/RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- D — INCLINED DROP W/RESPECT TO AIR FLOW, ROUND OR FLAT OVAL
- SPS — STATIC PRESSURE SENSOR
- H — HUMIDIFIER
- AD — ACCESS DOOR IN DUCT
- 90° ELBOW, RECTANGULAR WITHOUT TURING VANES
- 45° ELBOW, RECTANGULAR
- 90° ELBOW, ROUND OR FLAT OVAL (SMOOTH OR 5 PIECE ELBOWS)
- MITERED 90° ELBOW, ROUND OR FLAT OVAL
- 90° ELBOW, RECTANGULAR WITH TURING VANES
- 45° ELBOW, ROUND OR FLAT OVAL (SMOOTH OR 3 PIECE ELBOWS)
- VD — DIVIDED FLOW FITTING
- VD — TAP-IN BRANCH, RECTANGULAR
- BRANCH DUCT, CONICAL LATERAL FITTING, ROUND OR FLAT OVAL
- BRANCH DUCT, CONICAL TEE FITTING, ROUND OR FLAT OVAL
- BRANCH DUCT, "Y" FITTING, ROUND OR FLAT OVAL
- 90° ELBOW TURNED UP, RECTANGULAR [SUPPLY]
- 90° ELBOW TURNED DOWN, RECTANGULAR [SUPPLY]
- 90° ELBOW TURNED UP, RECTANGULAR RETURN
- 90° ELBOW TURNED DOWN, RECTANGULAR RETURN
- 90° ELBOW TURNED UP, RECTANGULAR EXHAUST
- 90° ELBOW TURNED DOWN, RECTANGULAR EXHAUST
- 90° ELBOW TURNED UP ROUND, FLAT OVAL SIMILAR SUPPLY / RETURN / EXHAUST
- 90° ELBOW TURNED DOWN ROUND, FLAT OVAL SIMILAR SUPPLY / RETURN / EXHAUST
- CEILING DIFFUSER (CD) OR GRILLE (CG) [SUPPLY]
- CEILING REGISTER (CR) OR GRILLE (CG) [RETURN OR EXHAUST]
- CEILING DIFFUSER (ARROWS INDICATE THROW DIRECTIONS)
- CEILING DIFFUSER (ARROWS INDICATE THROW DIRECTIONS)

GENERAL PIPING

- AUTOMATIC AIR VENT
- DIRECTION OF PIPE PITCH
- FD — FLOOR DRAIN
- FLOW DIRECTION
- MANUAL AIR VENT
- PIPE CONTINUES
- BFW — BOILER FEEDWATER
- CA — COMPRESSED AIR
- CD — CONDENSATE DRAIN
- CHR — CHILLED WATER RETURN
- CHS — CHILLED WATER SUPPLY
- CR — CONDENSER WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CW — CITY WATER
- D — DRAIN
- DTR — DUAL TEMPERATURE RETURN
- DTS — DUAL TEMPERATURE SUPPLY
- HWR — HOT WATER RETURN
- HWS — HOT WATER SUPPLY

ACCESSORIES

- BDD — BACKDRAFT DAMPER
- VOLUME DAMPER
- FD — FIRE DAMPER
- FSD — FIRE/SMOKE DAMPER
- SD — SMOKE DAMPER
- M — MOTORIZED DAMPER

EQUIPMENT

- VAV TERMINAL UNIT WITH REHEAT COIL
- VAV TERMINAL UNIT - COOLING ONLY
- FPT TERMINAL UNIT WITH REHEAT
- ELECTRICAL VAV TERMINAL UNIT (WITH ANNOTATOR OPTIONAL)
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST REGISTER

SYMBOLS

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WORK
- POINT OF CONNECTION NEW TO EXISTING
- LIMIT OF DEMOLITION
- CO2 — CARBON DIOXIDE SENSOR (MOUNT 48" AFF)
- CO — CARBON MONOXIDE SENSOR
- H — HUMIDISTAT (MOUNT 48" AFF)
- T — THERMOSTAT (MOUNT 48" AFF)
- SD — SMOKE DETECTOR
- DETAIL
- RISER
- SECTION

PIPE FITTINGS/VALVES

- FLANGE CONNECTION
- FLEXIBLE CONNECTOR
- PIPE CONNECTION - BOTTOM
- PIPE CONNECTION - TOP
- PIPE DOWN
- PIPE END CAP
- PIPE REDUCER - CONCENTRIC
- PIPE REDUCER - ECCENTRIC
- PIPE UP
- UNION CONNECTION
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- SHUT-OFF VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- SOLENOID VALVE
- VALVE IN RISER
- Y STRAINER
- Y STRAINER (WITH VALVE)
- 2-WAY AUTOMATIC CONTROL VALVE
- 3-WAY AUTOMATIC CONTROL VALVE
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- MOISTURE SEPARATOR

ABBREVIATIONS

AABC	ASSOCIATED AIR BALANCE
AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACT	ACOUSTICAL CEILING TILE
AD	ACCESS DOOR
ADDT'L	ADDITIONAL
ADJ	ADJUST
AFC	ABOVE FINISHED CEILING
AFCP	AIR FLOW CONTROL PANEL
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AMT	AMOUNT
APD	AIR PRESSURE DROP
ARCH	ARCHITECT
ARI	AMERICAN REFRIGERATION
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATU	AIR TERMINAL UNIT
AUTO	AUTOMATIC
B	BOILER
BAL	BALANCE/ING
BCU	BUILDING CONTROL UNIT
BHP	BOILER HORSEPOWER/BRAKE
BOP	BOTTOM OF PIPE
BLDG	BUILDING
BLW	BELOW
BOS	BOTTOM OF STEEL
BPD	BACK PRESSURE DAMPER
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CAD	CEILING AIR DIFFUSER
CAL	COMBUSTION AIR LOUVER
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CF	CENTRIFUGAL FAN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEAN OUT
CONC	CONCRETE
COND	CONDITIONING
CONN	CONNECT/CONNECTION
CONT	CONTINUATION
CP	CIRCULATING PUMP
CSR	CEILING SUPPLY REGISTER
CU	CONDENSING UNIT
CV	CONTROL VALVE
CW	COLD WATER
DB	DRY BULB
dB	DECIBEL
DDC	DIRECT DIGITAL CONTROL
ΔP	PRESSURE DROP
DIA	DIAMETER
DIFF	DIFFERENCE
DISC SW	DISCONNECT SWITCH
DN	DOWN
DP	DEW POINT
DTL	DETAIL
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR/EACH
EAL	EXHAUST AIR LOUVER
EAR	EXHAUST AIR REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECON	ECONOMIZER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
ELL	ELBOW
ENT	ENTERING
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATED
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER
EXH	EXHAUST
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMP
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FM	FACTORY MUTUAL
FPM	FEET PER MINUTE
FT	FEET
FT WG	FEET OF WATER GAUGE
GA	GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HEIGHT
HD	HEAD
HP	HORSEPOWER
HVAC	HEATING, VENTILATION & AIR
HZ	HERTZ
IN	INCHES
INSUL	INSULATE/INSULATION
IWG	INCHES WATER GAUGE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LBG	LINEAR BAR GRILLE
LB/HR	POUNDS PER HOUR
LRA	LOCKED ROTOR AMP
LWT	LEAVING WATER TEMPERATURE
M	MOTORIZED DAMPER
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MD	MANUAL DAMPER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFGR	MANUFACTURER
MIN	MINIMUM
MUA	MAKE-UP AIR
MUAU	MAKE-UP AIR UNIT
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED/NOISE CRITERIA
NEC	NATIONAL ELECTRICAL CODE
NG	NATURAL GAS
NO	NUMBER/NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAL	OUTSIDE AIR LOUVER
OBD	OPPOSED BLADE DAMPER
OC	ON CENTERPOWER
OCC	OCCUPIED
OF	OVERFLOW
OPP	OPPOSITE
ORIG	ORIGINAL
O&M	OPERATION AND MAINTENANCE
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PDCV	PRESSURE DIFFERENTIAL CONTROL
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PPH	POUNDS PER HOUR
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
REF	REFER/REFERENCE
REG	REGISTER
RF	RETURN/RELIEF FAN
RLA	RATED LOAD AMP
RLAD	RETURN LINEAR AIR DIFFUSER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
SAR	SUPPLY AIR REGISTER
SC	SHADING COEFFICIENT
SD	SMOKE DAMPER/SPLITTER DAMPER
SDC	SOUND DIGITAL CONTROLLER
SEER	SEASONAL ENERGY EFFICIENCY
SF	SUPPLY FAN
SIM	SIMILIAR
SLAD	SLOT LINEAR AIR DIFFUSER
SMACNA	SHEET METAL AND AIR
SO	SCREENED OPENING
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
SRV	STEAM RELIEF VENT
SS	STAINLESS STEEL
STL	STEEL
STN	SECTION
SUSP	SUSPENSION
SWR	SIDE WALL REGISTER
SYM	SYMBOL
T	THERMOSTAT
TCC	TEMPERATURE CONTROLPERATURE
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TOS	TOP OF STEEL
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANE
TXV	THERMAL EXPANSION VALVE
TYP	TYPICAL
U	UNDERCUT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNOCC	UNOCCUPIED
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VDR	VANED RETURN REGISTER
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WATT
W/	WITH
WB	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
W/O	WITHOUT

SHEET NUMBERING LEGEND

M111A

- DISCIPLINE: "MD" DEMO, "M" NEW WORK
- PLAN TYPE: "1" FLOOR PLAN, "2" ENLARGED FLOOR ETC.
- SYSTEM TYPE: "1" FOR DUCT WORK, "2" FOR PIPING
- FLOOR LEVEL: "0" LOWEST FLOOR, "1" NEXT FLOOR LEVEL ETC.
- SECTOR

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER VASSILIS K SKARDIS PE081586

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Vassilis K. Skardis — STATE AND LICENSE NO: PA PE081586 — DATE 09/30/2019

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BID DOCUMENTS
APRIL 20, 2018

NO.	DATE	REVISION
1	05/09/18	ADDENDUM 1

SCHOOL & LOCATION

Edward T. Steel Elementary School

4301 Wayne Avenue, Philadelphia, PA 19140

PROJECT TITLE

Classroom Modifications to Edward T. Steel Elementary School

DRAWING TITLE

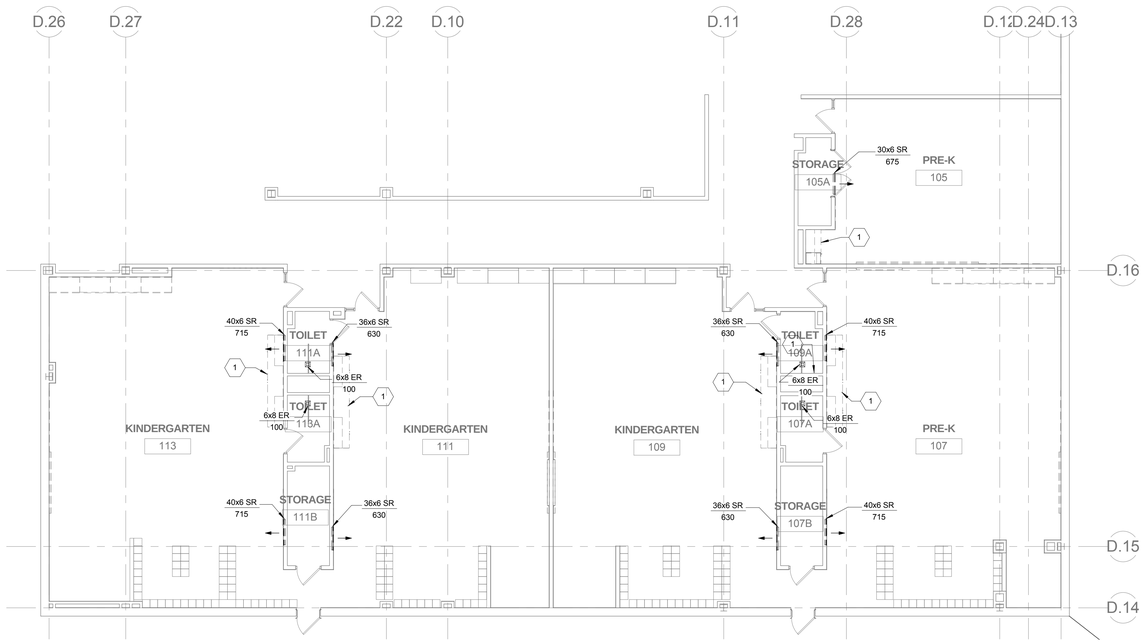
MECHANICAL AND PLUMBING COVER SHEET

LOCATION NO.	FILE NO.
XX-XXX	
DRAWN BY	CHECKED BY
HS	AG

B-067 C OF 2017/18
B-070 C OF 2017/18

DRAWING NO.

M001



1 FIRST LEVEL - MECHANICAL AND PLUMBING FLOOR PLAN - DEMOLITION

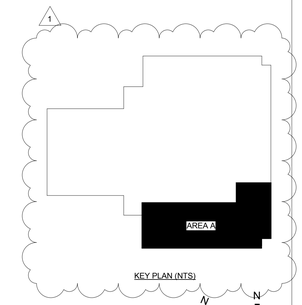
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO M001 FOR GENERAL NOTES, SYMBOL LEGEND AND LIST OF ABBREVIATIONS.
2. DEMOLISH AIR DEVICES AS SHOWN ON FLOOR PLANS.

KEYED NOTES

1 DEMOLISH AND DISPOSE OF PLUMBING FIXTURE. CAP EXISTING STUB-OUTS FOR CONNECTION TO NEW FIXTURE.



KEY PLAN (NTS)

0' 4" 8" 16'

SCALE: 1/8"=1'-0"

N True

N Project

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DRAWING TITLE

FIRST LEVEL - MECHANICAL AND PLUMBING FLOOR PLAN - DEMOLITION

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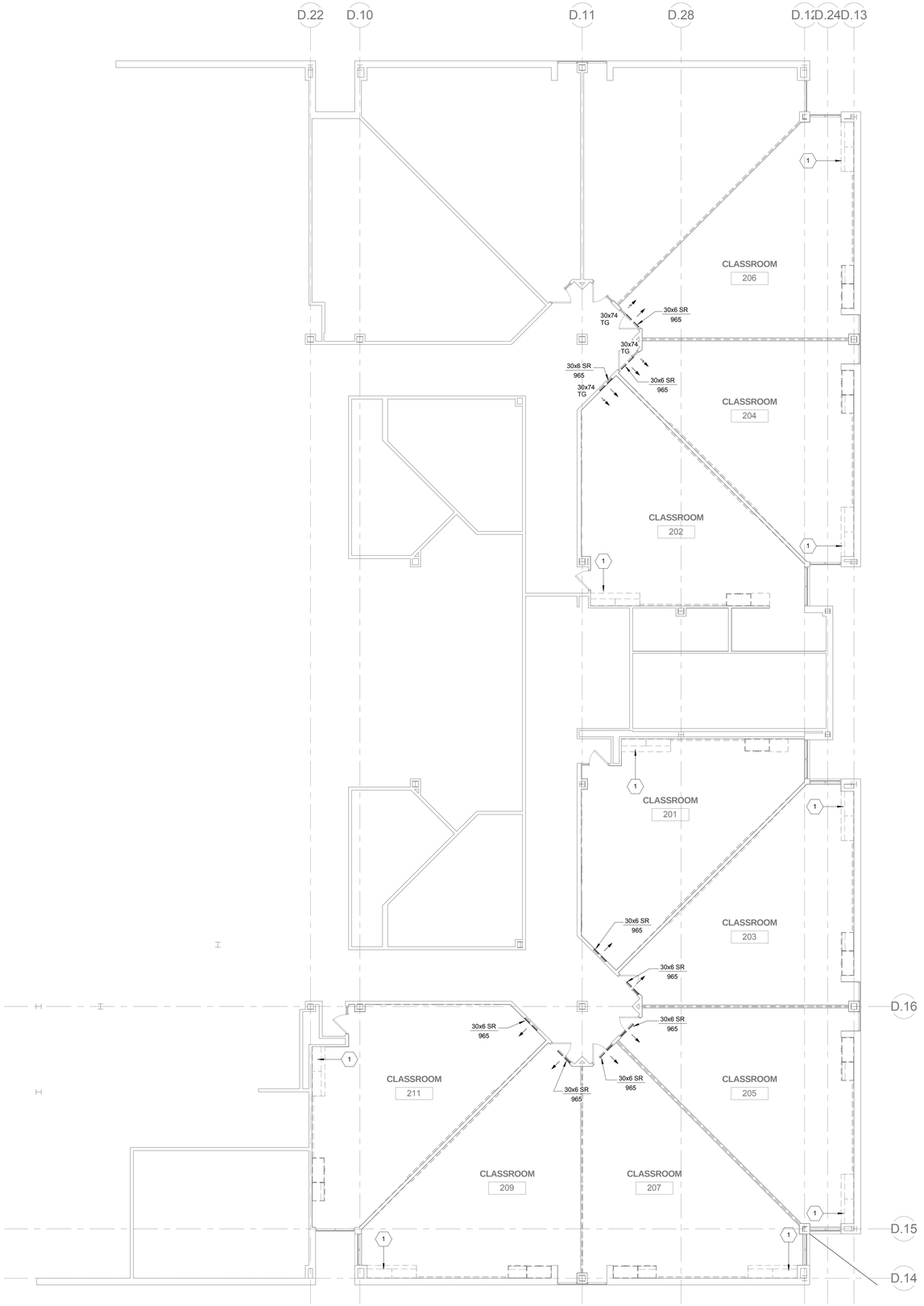
DRAWN BY *HS*	CHECKED BY *AG*
B-067 C **OF** *2017/18*	
B-070 C **OF** *2017/18*	

DRAWING NO.

MD111



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1/8" = 1'-0"

GENERAL NOTES

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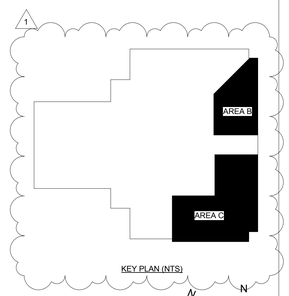

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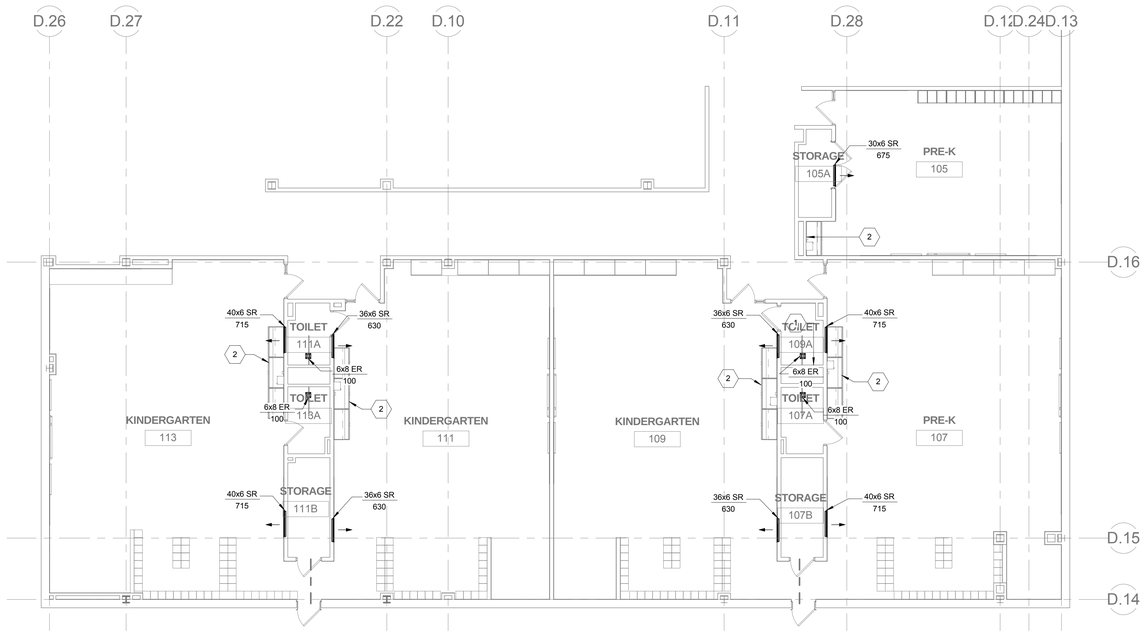
DRAWING NO.
MD112

0' 4' 8' 16'
SCALE: 1/8"=1'-0"

True N Project N



1 FIRST LEVEL - MECHANICAL AND PLUMBING FLOOR PLAN - NEW WORK

1/8" = 1'-0"

GENERAL NOTES

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KEYED NOTES

1 PROVIDE PLUMBING FIXTURE IN KIND. PROVIDE VALVES AND ACCESSORIES FOR FULL FUNCTIONALITY. CONNECT NEW FIXTURE TO EXISTING PIPING. VERIFY SIZE AND LOCATION OF EXISTING PIPING IN FIELD.

2 PROVIDE STAINLESS STEEL SINK ELKAY LR1517 WITH CHICAGO FAUCET 786-CP OR APPROVED EQUAL. PROVIDE VALVES AND ACCESSORIES FOR FULL FUNCTIONALITY. CONNECT NEW FIXTURE TO EXISTING PIPING. VERIFY SIZE AND LOCATION OF EXISTING PIPNIG IN FIELD.

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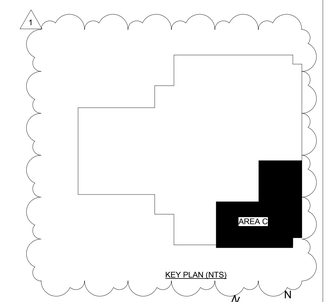

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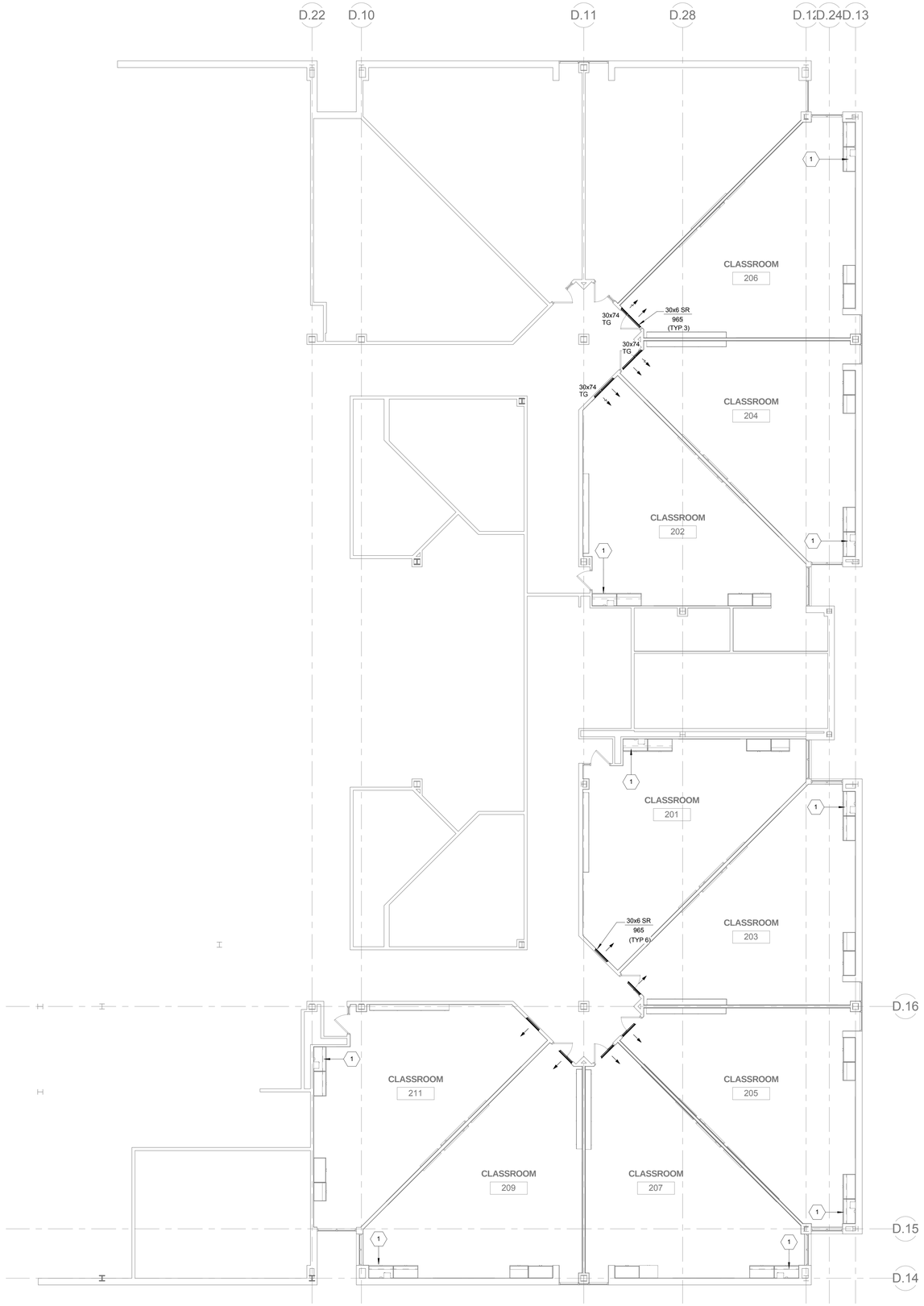

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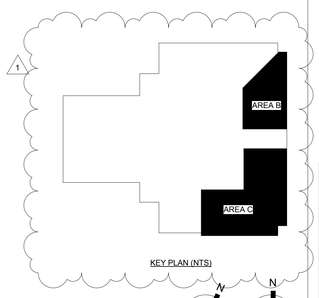

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