



**Additions and Renovations  
Platt Technical High School  
Milford, CT**

**ADDENDUM NO. 2**

July 29, 2019

The original Specifications and Drawings dated May 24, 2019 and Addendum No.1 dated July 23, 2019 for the above-captioned project are amended as stated in this Addendum. This Addendum consists of 7 (seven) pages, plus the following attachments.

**ATTACHMENTS**

**LANDSCAPE ARCHITECTURE DRAWING**

**SB1-L-102** (1 page)

**ARCHITECTURAL SKETCHES**

**RA2-01 thru RA2-04** (4 pages)

**PLUMBING DRAWINGS**

**P1-1-UA, P1-1-UB, P1-1-UC, P1-1-UD, P1-1-UE, P1-1-UF, P1-1-1A, P1-1-1B, P1-1-1C, P1-1-1D, P1-1-1E, P1-1-1F, P1-1-2B, P1-1-2C, P1-1-2D, P1-1-2E, P3-1-2, P4-1-2** (18 pages)

**ELECTRICAL DRAWINGS**

**E1-1-1A, E1-1-1B, E1-1-1C, E1-1-2B, E1-1-2C, E1-1-2D, E2-1-1A, E2-1-1B, E2-1-1E, E3-1-1A, E3-1-1E, E3-1-2E, E4-1-1, E4-1-2, E5-1-1, E5-1-2, E8-1-1, E8-1-6** (18 pages)

**BIDDER QUESTION LOG (SEE ATTACHMENT), dated 7-29-2019.**

**AMENDMENTS TO PROJECT MANUAL**

**DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS**

**ADD 2-001**      **SECTION 00 11 16 – INVITATION TO BID**  
Page 1, third paragraph: REVISE Bid Due Date to **“2:00 pm on August 22, 2019.”**

**ADD 2-002**      **SECTION 00 11 16 – INVITATION TO BID**  
Page 3: REVISE last day to submit Request for Information (RFI’s) to August 7, 2019.



## **DIVISION 08 – OPENINGS**

### **ADD 2-003 08 41 10 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS**

Page 1, Article 1.2, Paragraph A: ADD sub-paragraph 7 as follows:

“7. Horizontal Aluminum Sunshades System integral with aluminum framing.”

### **ADD 2-004 08 41 10 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS**

Page 11, ADD Article 2.13 per the following:

“2.13 Horizontal Aluminum Sunshade System

A. Manufacture:

1. Sunshade shall be designed as an integral part of the Storefront System and manufactured by the same manufacture.
2. To establish standard of quality and basis of design, Storefront Sunshade shall be equivalent to “E-Shade System 5600” as manufactured by EFCO, as approved by Architect.

B. Material:

1. Aluminum: Extruded aluminum shall be 6063-T6 alloy and temper.
2. Dissimilar Metals: All dissimilar metals must be properly insulated to prevent galvanic action.
3. Fasteners: All exposed fasteners shall be aluminum, stainless steel, or zinc plated steel.
4. Anchors: Perimeter and floor line anchors shall be aluminum or steel. All steel anchors shall be properly insulated from the aluminum.

C. Fabrication:

1. 28” Sunshade “arms” and mullion clips shall be extrusions with a nominal wall thickness of .25” (6 mm).
2. 4” deep by ¾” wide Sunshade “blade” horizontal components shall be aluminum extrusions having a minimum wall thickness of .063” (1.5 mm) to .125” (3 mm), mechanically fastened by means of extruded aluminum screw splines.

D. Finish:

1. Finish and color to match Storefront.

### **ADD 2-005 08 44 10 – GLAZED ALUMINUM CURTAIN WALLS**

Page 15, ADD Article 2.11 per the following:

“2.11 Horizontal Aluminum Sunshade System

E. Manufacture:

3. Sunshade shall be designed as an integral part of the Curtainwall System and manufactured by the same manufacture.
4. To establish standard of quality and basis of design, Curtainwall Sunshade shall be equivalent to “E-Shade System 5600” as manufactured by EFCO, as approved by Architect.

F. Material:

5. Aluminum: Extruded aluminum shall be 6063-T6 alloy and temper.
6. Dissimilar Metals: All dissimilar metals must be properly insulated to prevent galvanic action.
7. Fasteners: All exposed fasteners shall be aluminum, stainless steel, or zinc plated steel.
8. Anchors: Perimeter and floor line anchors shall be aluminum or steel. All steel anchors shall be properly insulated from the aluminum.

G. Fabrication:

3. 28” Sunshade “arms” and mullion clips shall be extrusions with a nominal wall thickness of .25” (6 mm).



4. 4" deep by 3/4" wide Sunshade "blade" horizontal components shall be aluminum extrusions having a minimum wall thickness of .063" (1.5 mm) to .125" (3 mm), mechanically fastened by means of extruded aluminum screw splines.
- H. Finish:
2. Finish and color to match Curtainwall.

#### **DIVISION 11 – EQUIPMENT**

**ADD 2-006 SECTION 11 60 000 – FIXED CASEWORK AND EQUIPMENT**

Page 18, Item SC-TD, change "Sheldon #27000 Curved Infinity Teacher Demonstration Island; or equal." to "Custom Curved Teacher Demonstration Island; or equal. "

**ADD 2-007 SECTION 11 60 000 – FIXED CASEWORK AND EQUIPMENT**

Page 18, Item SC-ST, change "Make & Model: Sheldon #26200 Student Worktable; or equal.." to "Student Worktable; or equal. "

**ADD 2-008 SECTION 11 60 000 – FIXED CASEWORK AND EQUIPMENT**

Page 19, Item AC-01, change "1-Stainless steel sink assembly #SS-9." to "1-Stainless steel sink assembly #SS-4"

**ADD 2-009 SECTION 11 60 000 – FIXED CASEWORK AND EQUIPMENT**

Page 19, Item AC-02, change "1-Stainless steel sink assembly #SS-9." to "1-Stainless steel sink assembly #SS-4"

#### **DIVISION 13 – SPECIAL CONSTRUCTION**

**ADD 2-010 SECTION 13 34 19 – METAL BUILDING SYSTEM – SUPPLEMENTAL BID #1 and ALTERNATE #2**

Page 3, Article 1.4, Paragraph H, ADD Sub-Paragraph 1 through 3.

1. "Metal Building System Sub-contractor shall submit the Design Documents to the Connecticut Office of the State Building Inspector (OSBI) for review and approval.
2. The Metal Building System Documents provided by the Sub-contractor as part of Delegated Design shall be submitted to the DAS as required for the independent peer review by a structural engineer. DAS will procure independent structural engineer peer review services. This structural peer review does not relieve the Metal Building System sub-contractor and the delegated design engineer from the responsibility to provide complete structural design for the Metal Buildings.
3. The metal building sub-contractor shall not proceed with manufacturing and installation of the building components until all comments provided by the independent structural peer reviewer and the OSBI are addressed the approval correspondence is issued by the OSBI. The sub-contractor shall allow appropriate adequate time for review and approval process as described herein."

#### **DIVISION 21 – FIRE SUPPRESSION**

**ADD 2-011 Section 21 05 00 – COMMON WORK RESULTS FOR FIRE SUPPRESSION**

Page 5, Article 2.6 – C: Add wording that hangers shall be clevis or adjustable swivel.

**ADD 2-012 Section 21 05 48 – VIBRATION & SEISMIC CONTROLS FOR FIRE-SUPP. PIPING & EQUIPMENT**

Page 2, Article 1.4 – D; Add subparagraph 4: "Systems listed below to be installed with seismic restraints shall be designed and installed with seismic restraints even if exempt from building codes and ASCE. Design criteria shall be in accordance with the International Building Code and ASCE 7, Chapter 13 and NFPA 13 (however exemptions listed shall not apply)..



- ADD 2-013      Section 21 13 13 – WET PIPE SPRINKLER SYSTEMS**  
Page 4, Article 2.1 – I: Manufacturer/Model Number: Victaulic quick response concealed type sprinkler shall be model #V3802.  
Page 7, Article 2.4: Delete paragraph H referencing Pedestal type Fire Department Connections.

## **DIVISION 32 – EXTERIOR IMPROVEMENTS**

- ADD 2-014      SECTION 32 14 00 – UNIT PAVING**  
Page 2, Article 2.1, Paragraph A.5. REPLACE paragraph with the following:  
“A. 5. Color and Finish:  
    Nominal 6x6 paver:  
        Color: To be Hanover Standard Limestone Gray,  
        Finish: Tudor.  
    Nominal 12 x 12 paver:  
        Color: To be Hanover Standard Cream,  
        Finish: Tudor.”

## **AMENDMENTS TO DRAWINGS**

### **LANDSCAPE ARCHITECTURE**

- ADD 2-015      DRAWING SB1-L-102– SUPPLEMENTAL BID 1 SITE MATERIALS ENLARGEMENT PLAN**  
Modify legend to delete the word Sod and replace with Athletic Seed Mix. Refer to revision tag RL2-01.

### **ARCHITECTURAL**

- ADD 2-016      A1-1-2E – SECOND FLOOR PLAN – AREA E**  
At room E232, Electrical Engineering & Applied Sciences, provide “Base Type:LB-C1” under “Type ‘A’ Lockers.”
- ADD 2-017      A2-1-2 – BUILDING ELEVATIONS**  
Elevation 3, South Elevation: REVISE location of Pre-cast Elevation tag H11A-325. Refer to sketch RA2-01.
- ADD 2-018      A2-2-5 – INTERIOR ELEVATIONS**  
Elevation 2, Interior Elevation – Gymnasium West: ADD Pre-cast Elevation Tag “H19A-71” to the left of column line 19, just below pre-cast panel H20-308. Refer to sketch RA2-03.  
Elevation 2, Interior Elevation – Gymnasium West: ADD Pre-cast Elevation Tag “H21B-235” to the left of column line 17, just above pre-cast panel H20-235. Refer to sketch RA2-02.  
Elevation 2, Interior Elevation – Gymnasium West: ADD Pre-cast Elevation Tag “H19A-20” to the right of column line 17, just below pre-cast panel H20-308. Refer to sketch RA2-02.
- ADD 2-019      A3-4-2 – OVERALL SECOND FLOOR PRECAST PANEL LAYOUT**  
ADD pre-cast identification tag at the Gymnasium along column line H between 16 and 17. Refer to sketch RA2-04.

## **PLUMBING**

- ADD 2-020      DRAWING P1-1-UA – UNDERSLAB PLUMBING PLAN – AREA A**  
Added floor clean outs (FCO-1) and piping per Revision RP2-1.
- ADD 2-021      DRAWING P1-1-UB – UNDERSLAB PLUMBING PLAN – AREA B**  
Added floor clean outs (FCO-1) and piping per Revision RP2-2.  
Modified piping from FS-1 per Revision RP2-3.
- ADD 2-022      DRAWING P1-1-UC – UNDERSLAB PLUMBING PLAN – AREA C**  
Added floor clean outs (FCO-1) and piping per Revision RP2-4
- ADD 2-023      DRAWING P1-1-UD – UNDERSLAB PLUMBING PLAN – AREA D**  
Added floor clean outs (FCO-1) and piping per Revision RP2-5  
Added floor clean outs (FCO-2) and piping per Revision RP2-6.  
Modified floor clean out tag (FCO to FCO-2) per Revision RP2-7.
- ADD 2-024      DRAWING P1-1-UE – UNDERSLAB PLUMBING PLAN – AREA E**  
Added floor clean outs (FCO-1) and piping per Revision RP2-8.
- ADD 2-025      DRAWING P1-1-UF – UNDERSLAB PLUMBING PLAN – AREA F**  
Added floor clean outs (FCO-1) and piping per Revision RP2-9.  
Added floor clean out tag (FCO-1) per Revision RP2-10.
- ADD 2-026      DRAWING P1-1-1A – FIRST FLOOR PLUMBING PLAN – AREA A**  
Added floor clean outs (FCO-1). (SAME AS P1-1-UA) per Revision RP2-11.  
Modified vent piping from 2-1/2" to 3" per Revision RP2-12.
- ADD 2-027      DRAWING P1-1-1B – FIRST FLOOR PLUMBING PLAN – AREA B**  
Added floor clean outs (FCO-1). (SAME AS P1-1-UB) per Revision RP2-13.  
Modified vent piping from 2-1/2" to 3" per Revision RP2-14.
- ADD 2-028      DRAWING P1-1-1C – FIRST FLOOR PLUMBING PLAN – AREA C**  
Added floor clean outs (FCO-1). (SAME AS P1-1-UC) per Revision RP2-15.  
Modified vent piping from 2-1/2" to 3" per Revision RP2-16.
- ADD 2-029      DRAWING P1-1-1D – FIRST FLOOR PLUMBING PLAN – AREA D**  
Added floor clean outs (FCO-1) and piping. (SAME AS P1-1-UD) per Revision RP2-17.  
Added floor clean outs (FCO-2) and piping. (SAME AS P1-1-UD) per Revision RP2-18.  
Modified floor clean out tag (FCO-1 to FCO-2) per Revision RP2-19.  
Modified vent piping from 2-1/2" to 3" per Revision RP2-20.  
Added tag to 4" Acid Vent per Revision RP2-21.
- ADD 2-030      DRAWING P1-1-1E – FIRST FLOOR PLUMBING PLAN – AREA E**  
Added floor clean outs (FCO-1). (SAME AS P1-1-UE) per Revision RP2-22.  
Modified vent piping from 2-1/2" to 3" per Revision RP2-23.
- ADD 2-031      DRAWING P1-1-1F – FIRST FLOOR PLUMBING PLAN – AREA F**  
Added floor clean outs (FCO-1). (SAME AS P1-1-UF) per Revision RP2-24.
- ADD 2-032      DRAWING P1-1-2B – SECOND FLOOR PLUMBING PLAN – AREA B**  
Modified vent piping from 2-1/2" to 3" per Revision RP2-25.

- ADD 2-033      DRAWING P1-1-2C – SECOND FLOOR PLUMBING PLAN – AREA C**  
Modified vent piping from 2-1/2" to 3" per Revision RP2-26.
- ADD 2-034      DRAWING P1-1-2D – SECOND FLOOR PLUMBING PLAN – AREA D**  
Modified vent piping from 2-1/2" to 3" per Revision RP2-27.
- ADD 2-035      DRAWING P1-1-2E – SECOND FLOOR PLUMBING PLAN – AREA E**  
Modified vent piping from 2-1/2" to 3" per Revision RP2-28.
- ADD 2-036      DRAWING P3-1-2 –PLUMBING ABBREVIATIONS, LEGENDS AND SCHEDULES**  
Modified remarks for FCO-1, FCO-2, WCO-1 per Revision RP2-29.
- ADD 2-037      DRAWING P4-1-2 –PLUMBING DETAILS**  
Modified TYPICAL OIL INTERCEPTOR INSTALLATION DETAIL to include flood level and additional notes per Revision RP2-30.

**ELECTRICAL**

- ADD 2-038      DRAWING E1-1-1A – FIRST FLOOR ELECTRICAL LIGHTING PLAN AREA A**  
Added callout for mounting height of pendant fixtures in Fitness Center A101 per Revision RE2-1.  
Added callout for mounting height of pendant fixtures in Gymnasium A133 per Revision RE2-2.
- ADD 2-039      DRAWING E1-1-1B – FIRST FLOOR ELECTRICAL LIGHTING PLAN AREA B**  
Added callout for mounting height of pendant fixtures in Demo Classroom B105 per Revision RE2-3.  
Added callout for mounting height of pendant fixtures in Theory B143 per Revision RE2-4.  
Added callout for mounting height of pendant fixtures in Restaurant A126 per Revision RE2-5.
- ADD 2-040      DRAWING E1-1-1C – FIRST FLOOR ELECTRICAL LIGHTING PLAN AREA C**  
Added note for pendant fixture mounting heights for finished spaces. Typical of drawings E1-1-1C; E1-1-1D; E1-1-2B; E1-1-2C; E1-1-2D per Revision RE2-6.
- ADD 2-041      DRAWING E1-1-2B – SECOND FLOOR ELECTRICAL LIGHTING PLAN AREA B**  
Added callout for mounting height of pendant fixtures in Corridor B160 and Cafeteria Seating B158 per Revision RE2-7.  
Added callout for mounting height of pendant fixtures in Cafeteria Seating B159 per Revision RE2-8.
- ADD 2-042      DRAWING E1-1-2C – SECOND FLOOR ELECTRICAL LIGHTING PLAN AREA C**  
Added callout for mounting height of pendant fixtures in Learning Commons C218 per Revision RE2-9.
- ADD 2-043      DRAWING E1-1-2D – SECOND FLOOR ELECTRICAL LIGHTING PLAN AREA D**  
Added callout for mounting height of pendant fixtures in Multipurpose Room D111 per Revision RE2-10.
- ADD 2-044      DRAWING E2-1-1A – FIRST FLOOR ELECTRICAL POWER PLAN AREA A**  
Added general note for additional information on shop equipment. Typical of all E2-X-XX series drawings per Revision RE2-11.
- ADD 2-045      DRAWING E2-1-1B – FIRST FLOOR ELECTRICAL POWER PLAN AREA B**  
Relocated kitchen electrical panels per Revision RE2-12.

- ADD 2-046      DRAWING E2-1-1E – FIRST FLOOR ELECTRICAL POWER PLAN AREA E**  
Added branch circuit for spark detection panel DC-1 per Revision RE2-13.  
Added branch circuit for BMS panel per Revision RE2-14.
- ADD 2-047      DRAWING E3-1-1A – FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA A**  
Added general note for coordination of all AV receptacles and backboxes. Typical of all E3-X-XX series drawings per Revision RE2-15.
- ADD 2-048      DRAWING E3-1-1E – FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA E**  
Added CO detector to be within range for gas equipment in Plumbing E101 per Revision RE2-16.  
Relocated CO detector to be within range for gas equipment in HVAC E120 per Revision RE2-17.
- ADD 2-049      DRAWING E3-1-2E – SECOND FLOOR ELECTRICAL SYSTEMS PLAN AREA E**  
Added callout for cable tray size and mounting heights for Networking Lab E203 and Theory E204 per Revision RE2-18.  
Added callout for cable tray size and mounting heights for Theory E201 per Revision RE2-19.  
Added callout for cable tray size and mounting heights for Work Room E206 per Revision RE2-20.
- ADD 2-050      DRAWING E4-1-1 – KITCHEN ELECTRICAL PARTIAL PLAN**  
Removed kitchen electrical panels from Laundry/Storage B116 per Revision RE2-21.
- ADD 2-051      DRAWING E4-1-2 – ENLARGED IDF ROOM ELECTRICAL POWER AND SYSTEMS PLANS**  
Revised note for telecommunications grounding and riser detail per Revision RE2-22.
- ADD 2-052      DRAWING E4-1-2 – ELECTRICAL ABBREVIATIONS, LEGENDS, AND NOTES**  
Added fire alarm transponder panel to symbols list per Revision RE2-23.  
Added push button control station to symbols list per Revision RE2-24.
- ADD 2-053      DRAWING E5-1-2 – ELECTRICAL SCHEDULES**  
Updated motor circuit schedule for bus garage per Revision RE2-25.
- ADD 2-054      DRAWING E8-1-1 – ELECTRICAL PANELBOARDS**  
Added circuits for spark detection panel and BMS panel in panelboard EP1-1 per Revision RE2-26.
- ADD 2-055      DRAWING E8-1-1 – ELECTRICAL PANELBOARDS**  
Revised loads for garage heaters in panelboard GPL per Revision RE2-27.

**E N D   O F   A D D E N D U M   N O .   2**







**ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL**

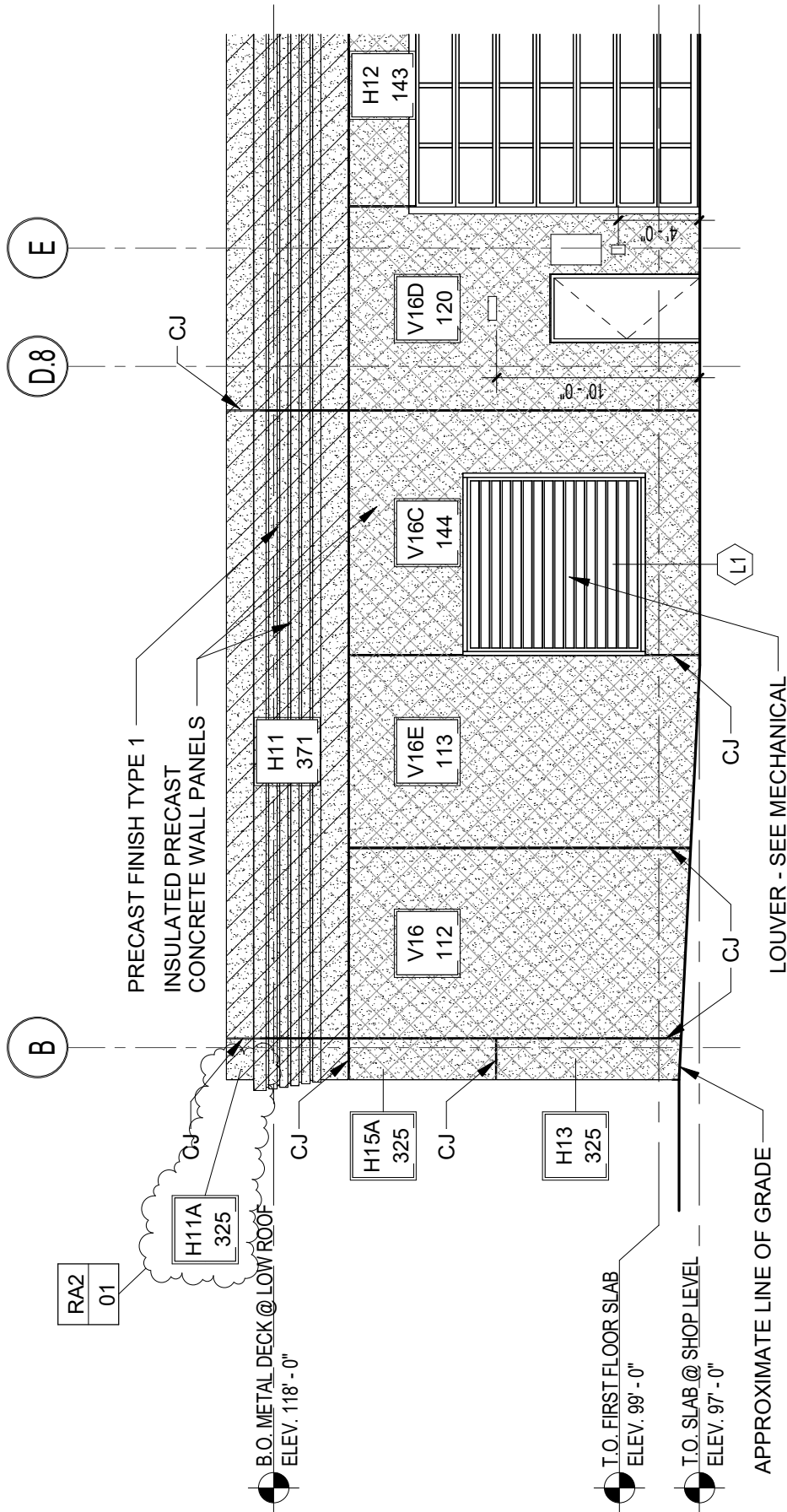
**REVISION TO SOUTH ELEVATION**

**Addendum  
No. 2**

**RA2-01**

REF. DWG No.  
Author

DCS Project No.  
BI-RT-878 CM-R  
OSCGR Project No.  
900-0013  
Scale: 1/8" = 1'-0"  
Date: 07/29/2019



**SOUTH ELEVATION**

**3**  
1/8" = 1'-0"

DRA

Drumme  
Rosane  
Anderson, Inc.

225 Oakland Road  
South Windsor  
Connecticut 06074  
860-644-8300

600 Orange Avenue,  
Milford, CT 06461

ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL

REVISION TO INTERIOR ELEVATION - GYMNASIUM WEST

Addendum  
No. 2

RA2-02

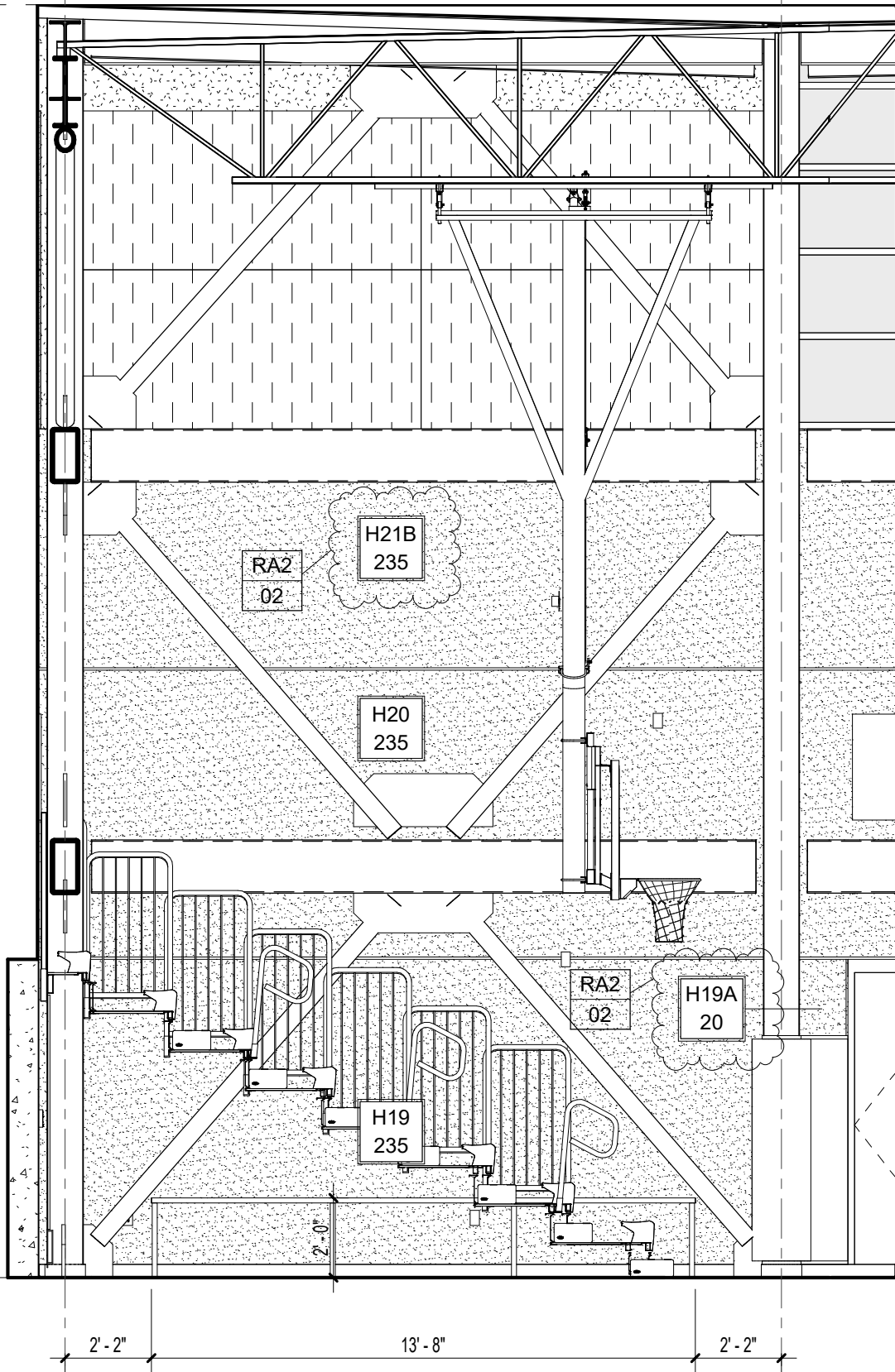
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Author

DCS Project No.  
BI-RT-878 CM-R

OSCGR Project No.  
900-0013

Scale: 1/4" = 1'-0"

Date: 07/29/2019



2

## INTERIOR ELEVATION - GYMNASIUM WEST

1/4" = 1'-0"

DRA

Drumme  
Rosane  
Anderson, Inc.

225 Oakland Road  
South Windsor  
Connecticut 06074  
860-644-8300

600 Orange Avenue,  
Milford, CT 06461

ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL

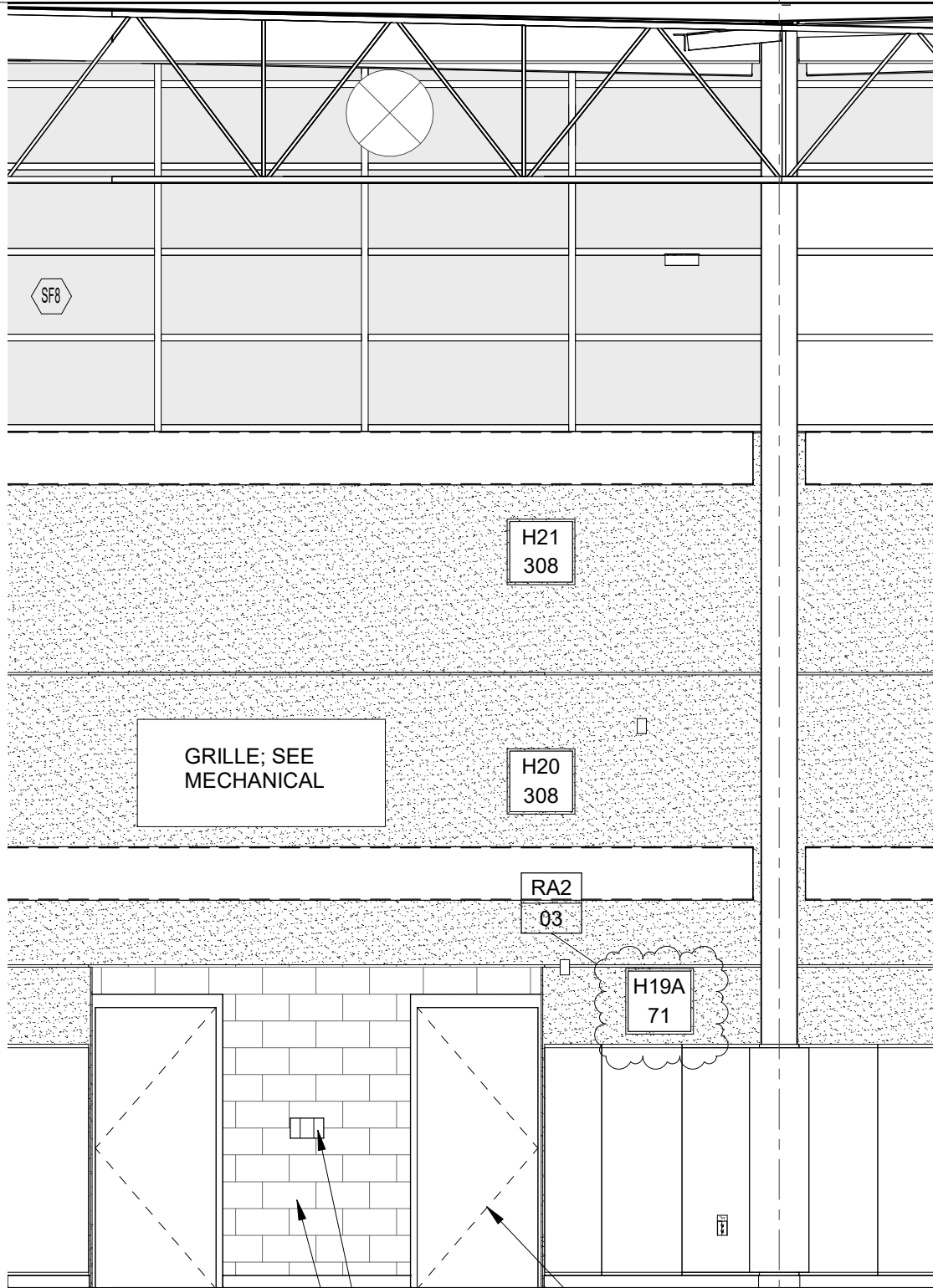
REVISION TO INTERIOR ELEVATION - GYMNASIUM WEST

Addendum  
No. 2

RA2-03

REF. DWG No.  
Author

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BI-RT-878 CM-R  
OSGCR Project No.  
900-0013  
Scale: 1/4" = 1'-0"  
Date: 07/29/2019



TEMPERATURE,  
HUMIDITY, & CO2  
SENSOR

HOLLOW METAL DOOR &  
FRAME, PAINTED

CMU, PAINTED

2

# INTERIOR ELEVATION - GYMNASIUM WEST

1/4" = 1'-0"

DRA

Drumme  
Rosane  
Anderson, Inc.

225 Oakland Road  
South Windsor  
Connecticut 06074  
860-644-8300

600 Orange Avenue,  
Milford, CT 06461

**ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL**

**REVISION TO SECOND FLOOR PRECAST PANEL LAYOUT**

**Addendum  
No. 2**

**RA2-04**

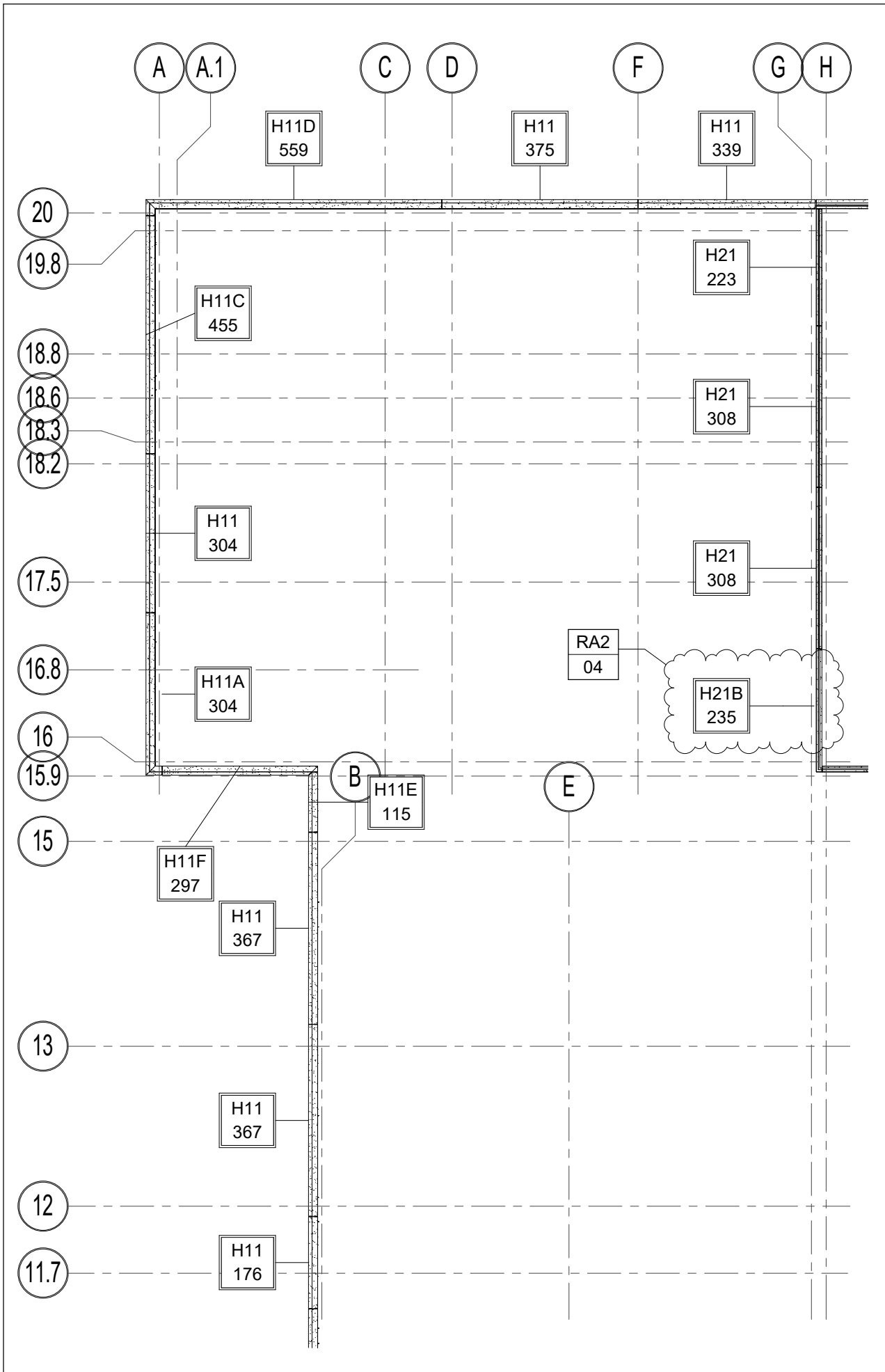
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Author

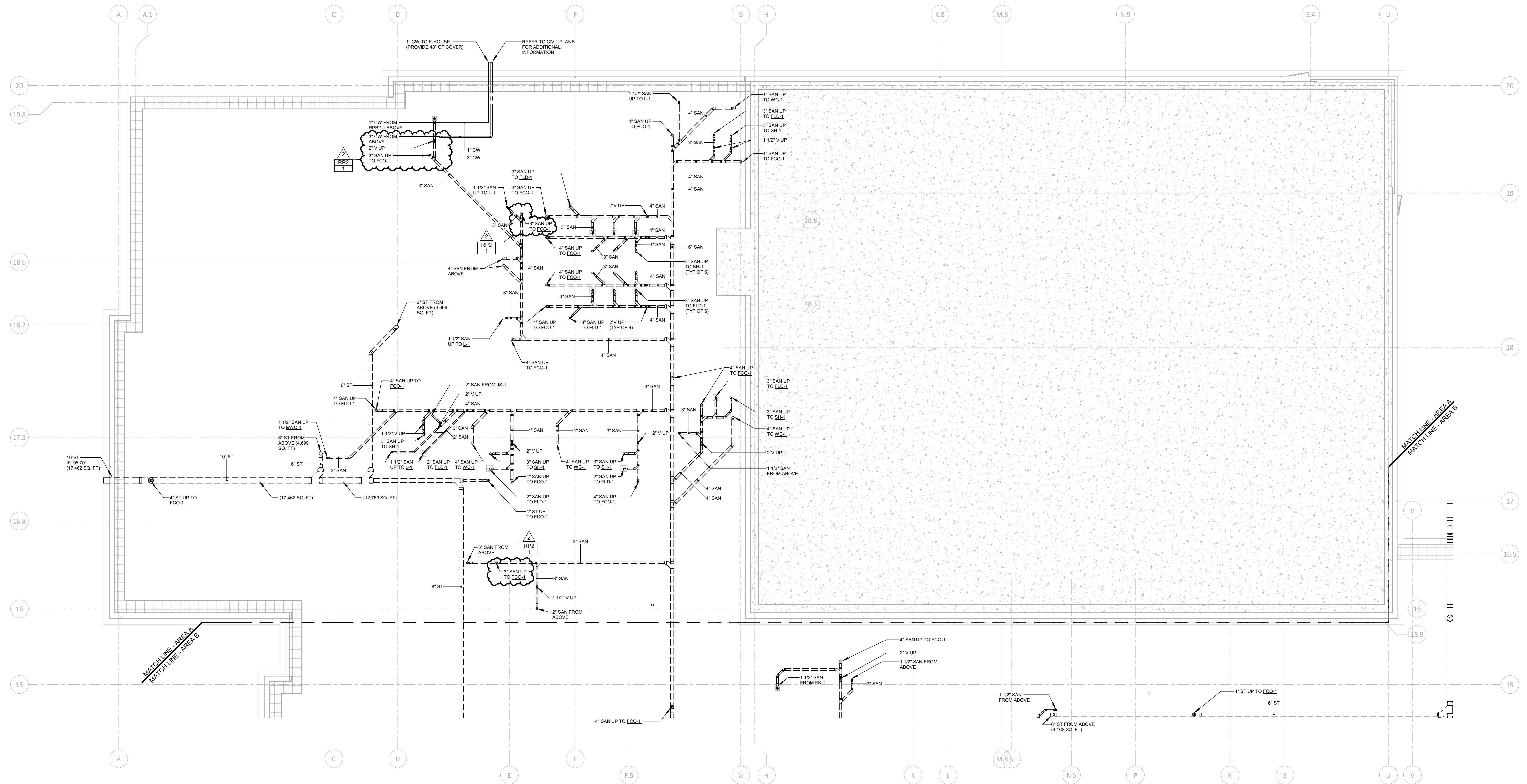
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BI-RT-878 CM-R

OSCGR Project No.  
900-0013

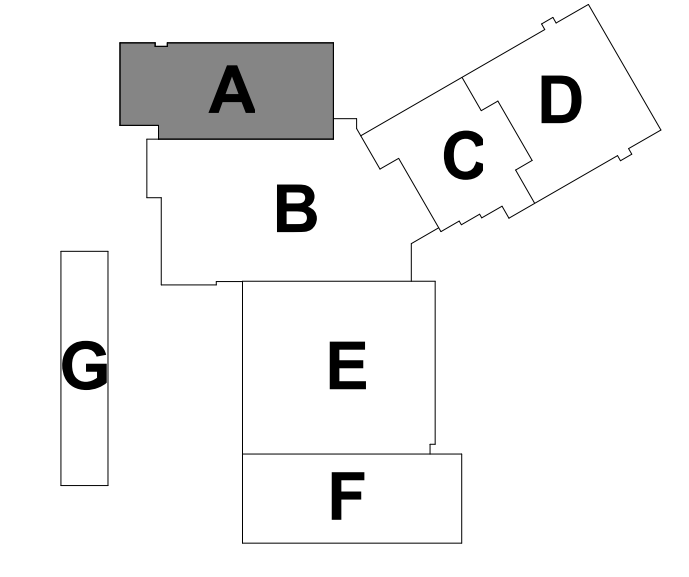
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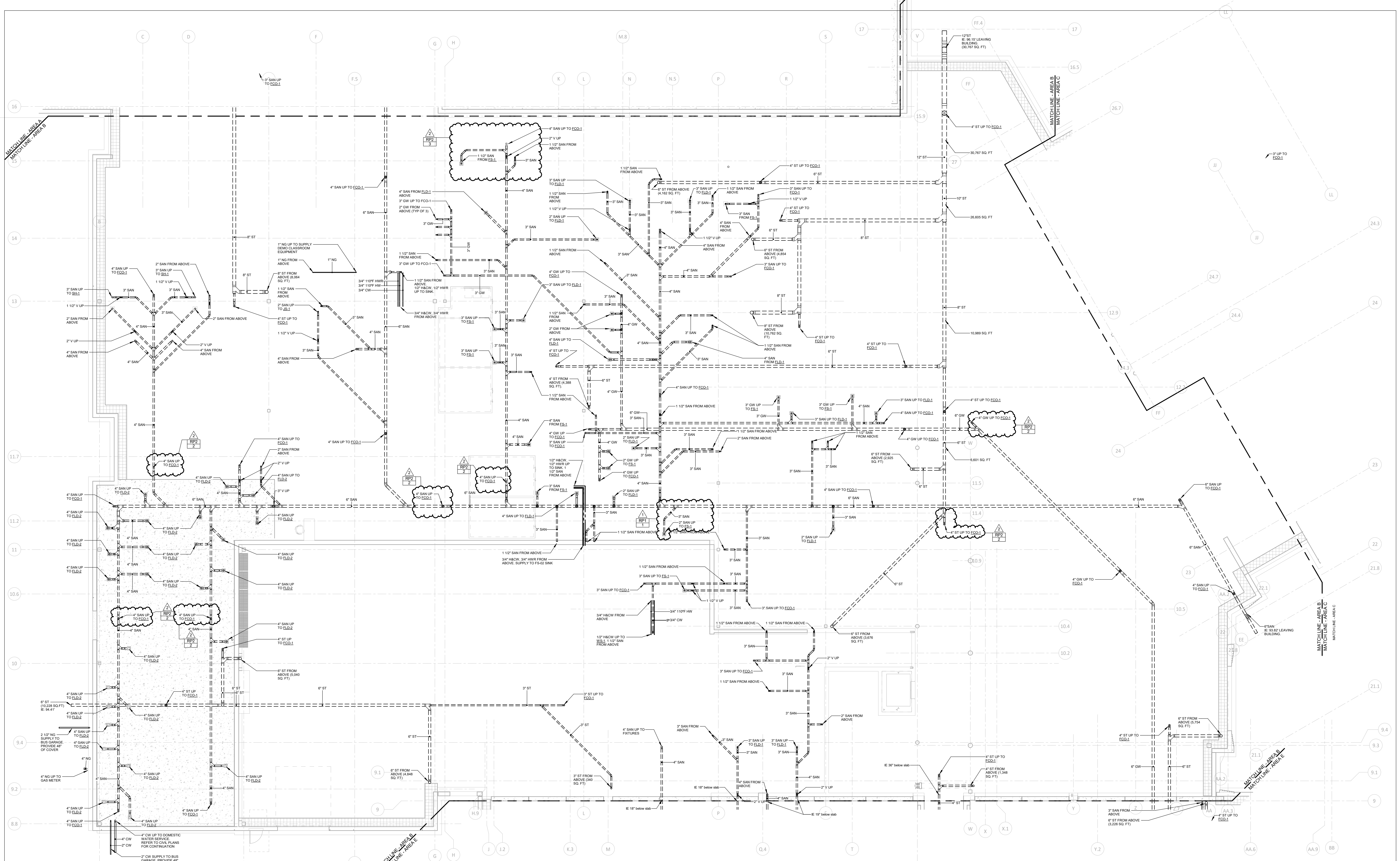




1 FIRST FLOOR PLUMBING BELOW SLAB - AREA A  
 1/8" = 1'-0"  
 FFE: 99  
 REFER TO DRAWING P3-1-1 FOR PLUMBING LEGENDS.  
 REFER TO DRAWING P3-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
 REFER TO DRAWINGS P4-1-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.

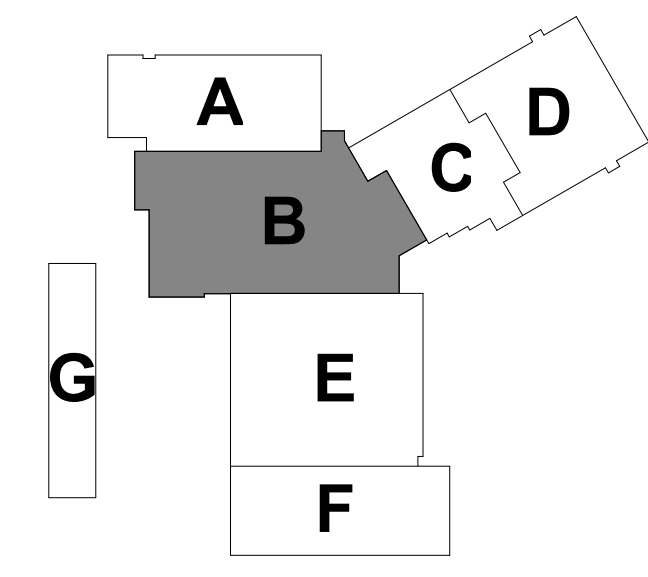


100% CONSTRUCTION DOCUMENTS			
drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
UNDERSLAB PLUMBING PLAN AREA A		drawing prepared by <b>Consulting Engineering Services, Inc.</b> 811 Middle St., Middletown, CT 06457	
date		date	
05/24/2019		05/24/2019	
scale		scale	
As Indicated		As Indicated	
drawn by		drawn by	
msp		msp	
approved by		approved by	
jvc		jvc	
drawing no.		drawing no.	
P1-1-UA		P1-1-UA	
project		project	
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461		ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461	
CAD no.		CAD no.	
81-07-075 CM-R		81-07-075 CM-R	
OSCR project no.		OSCR project no.	
990-0013		990-0013	
REVISIONS		REVISIONS	
mark	date	description	
2	07/30/2019	ADDENDUM NO. 2	



**1 FIRST FLOOR PLUMBING BELOW SLAB - AREA B**  
 1/8" = 1'-0"

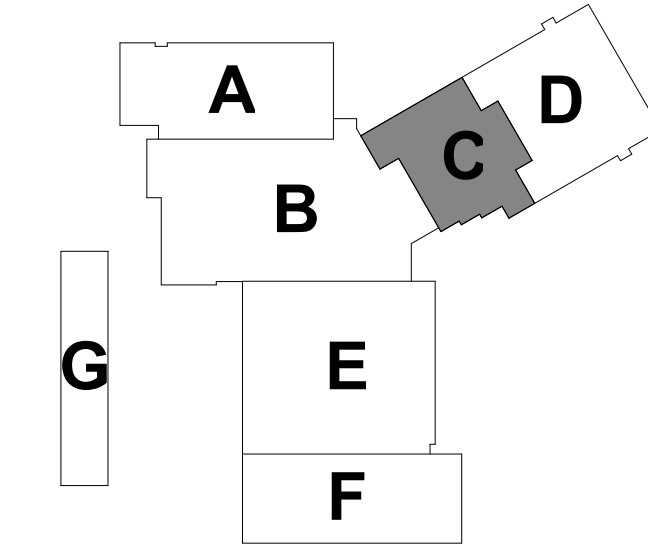
FF: 9709 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ELEVATION CHANGE LOCATIONS  
 REFER TO DRAWING PS-1 FOR PLUMBING LEGENDS  
 REFER TO DRAWING PS-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE  
 REFER TO DRAWINGS PS-1.1, PS-1.2 & PS-1.3 FOR PLUMBING DETAILS



100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title <b>UNDERSLAB PLUMBING PLAN AREA B</b>			drawing prepared by <b>Consulting Engineering Services, Inc.</b> 911 Middle St., Middletown, CT 06457	
date 05/24/2019			scale As Indicated	
mark			date	
1	07/23/2019	ADDENDUM NO. 1	2	07/30/2019
project <b>ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL</b> 600 Orange Avenue Middletown, CT 06461			approved by JMC	
drawing no. <b>P1-1-UB</b>			drawing no.	
CAD no.			DCS project no. 18-07-076 CM-R	
			OSCRG project no. 900-0013	



1 FIRST FLOOR PLUMBING BELOW SLAB - AREA C  
 1/8" = 1'-0"  
 FFE: RP  
 REFER TO DRAWING P3-1-1 FOR PLUMBING LEGENDS.  
 REFER TO DRAWING P3-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
 REFER TO DRAWINGS P4-1-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.



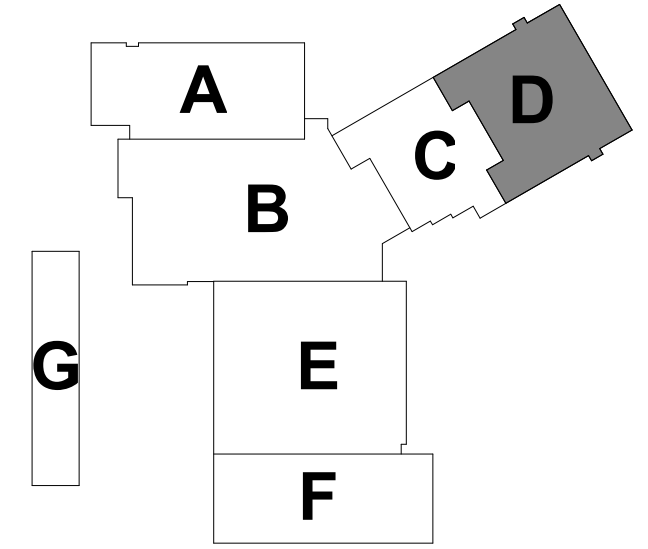
100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title		drawing prepared by		
UNDERSLAB PLUMBING PLAN AREA C		Consulting Engineering Services, Inc.		
date		date		date
05/24/2019		05/24/2019		05/24/2019
scale		As Indicated		
drawn by		msp		
approved by		jvc		
drawing no.		P1-1-UC		
project		CAD no.		
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL		DCS project no.		OSGCR project no.
600 Orange Avenue Middletown, CT 06461		18-07-076 CM-R		990-0013



MATCH LINE - AREA D  
MATCH LINE - AREA C

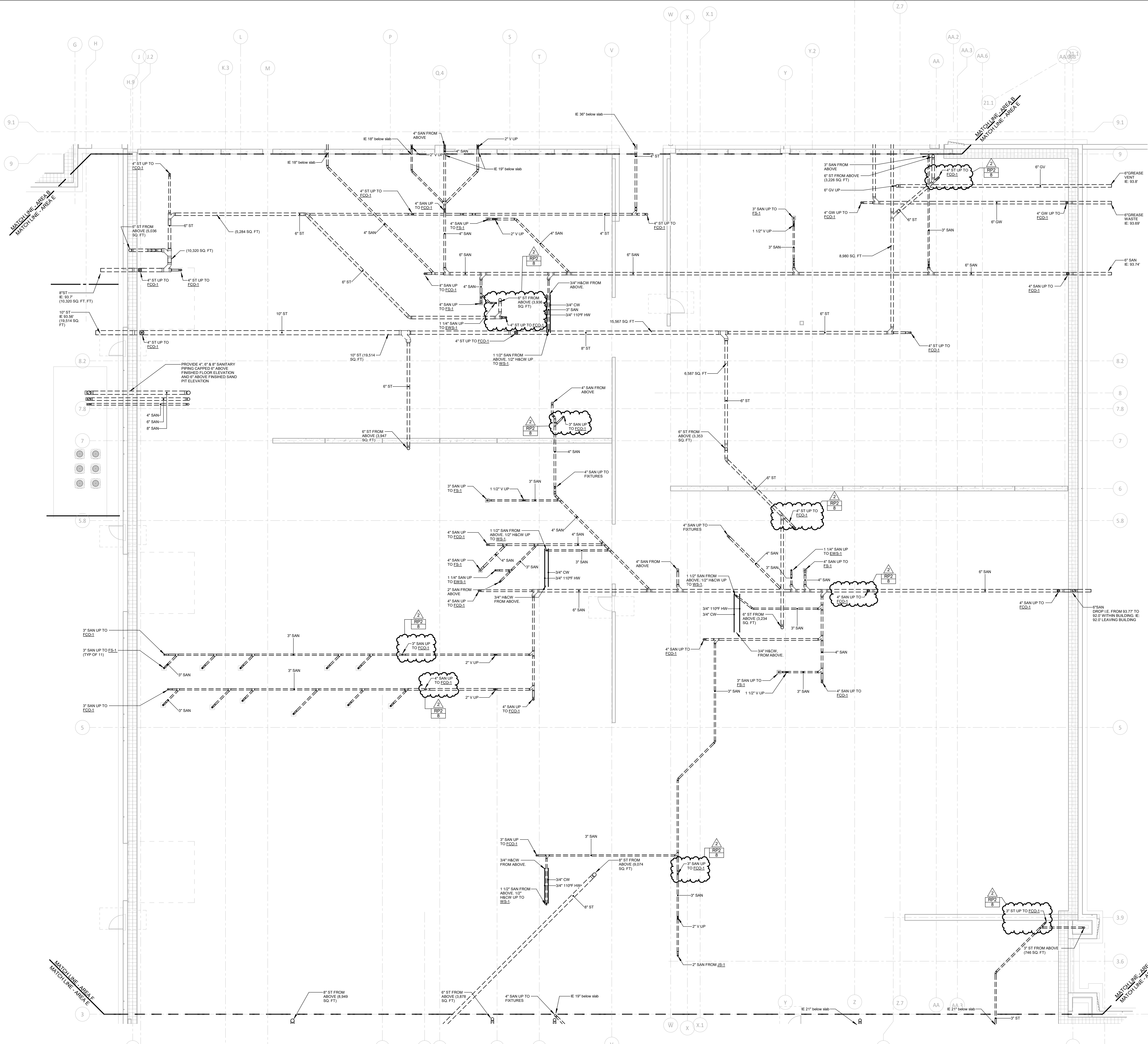
MATCH LINE - AREA D  
MATCH LINE - AREA C

1 FIRST FLOOR PLUMBING BELOW SLAB - AREA D  
1/8" = 1'-0"  
FFE: 99  
REFER TO DRAWING P3-1.1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING P3-1.2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
REFER TO DRAWINGS P4-1.1, P4-1.2 & P4-1.3 FOR PLUMBING DETAILS.

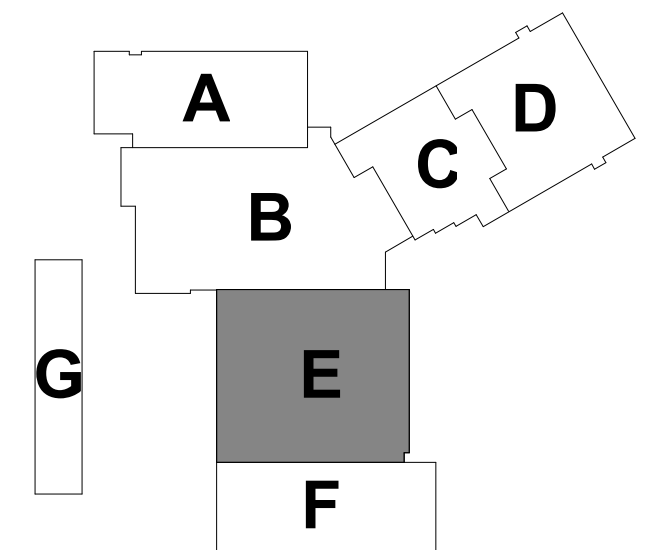


100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title		drawing prepared by		
UNDERSLAB PLUMBING PLAN AREA D		Consulting Engineering Services, Inc. 511 Middle St., Middletown, CT 06457		
date		date		date
05/24/2019		07/30/2019		05/24/2019
scale		description		scale
As Indicated		ADDENDUM NO. 2		As Indicated
drawn by		project		drawn by
msf		ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461		msf
approved by		CAD no.		approved by
jnc		DCS project no. 18-07-076 CM-R		jnc
drawing no.		OSGCR project no. 990-0113		drawing no.
P1-1-UD				P1-1-UD

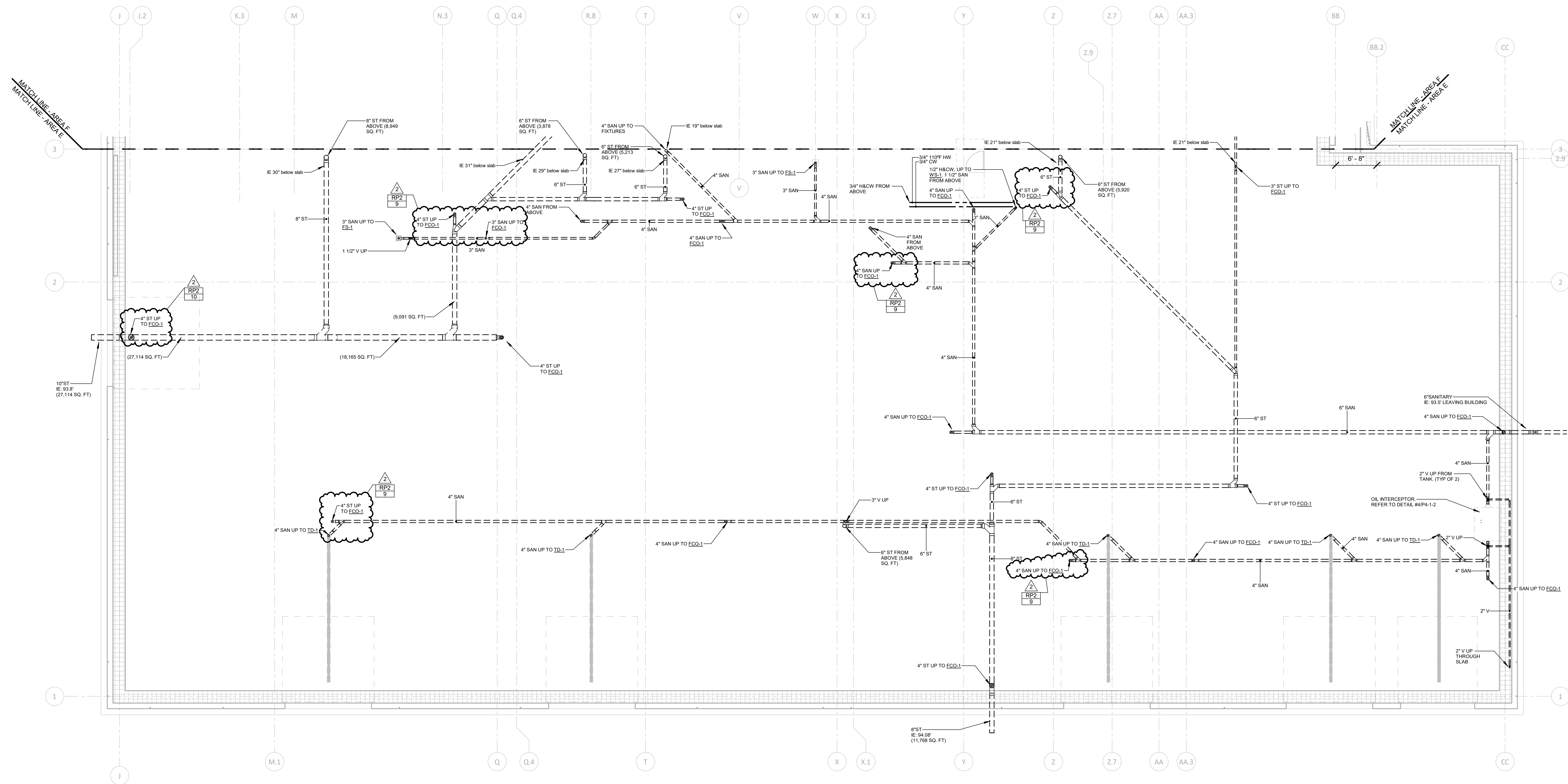




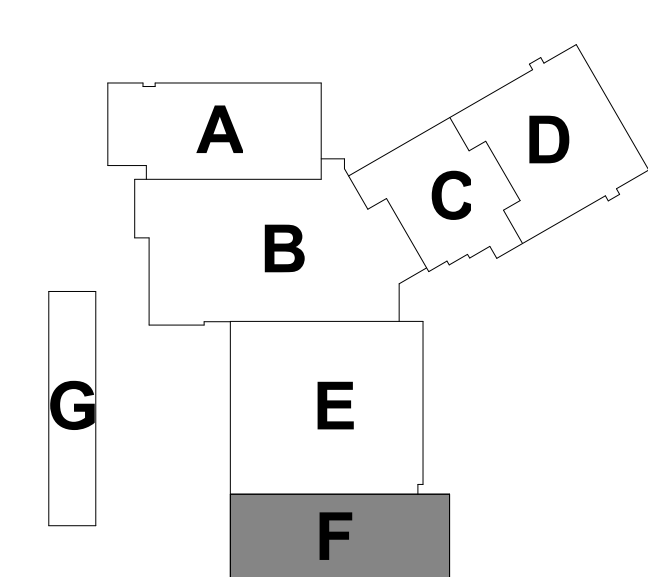
**1 FIRST FLOOR PLUMBING BELOW SLAB - AREA E**  
 1/8" = 1'-0"  
 FFE: 0'  
 REFER TO DRAWING P3-1 FOR PLUMBING LEGENDS.  
 REFER TO DRAWING P3-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
 REFER TO DRAWINGS P4-1, P4-1.2 & P4-1.3 FOR PLUMBING DETAILS.



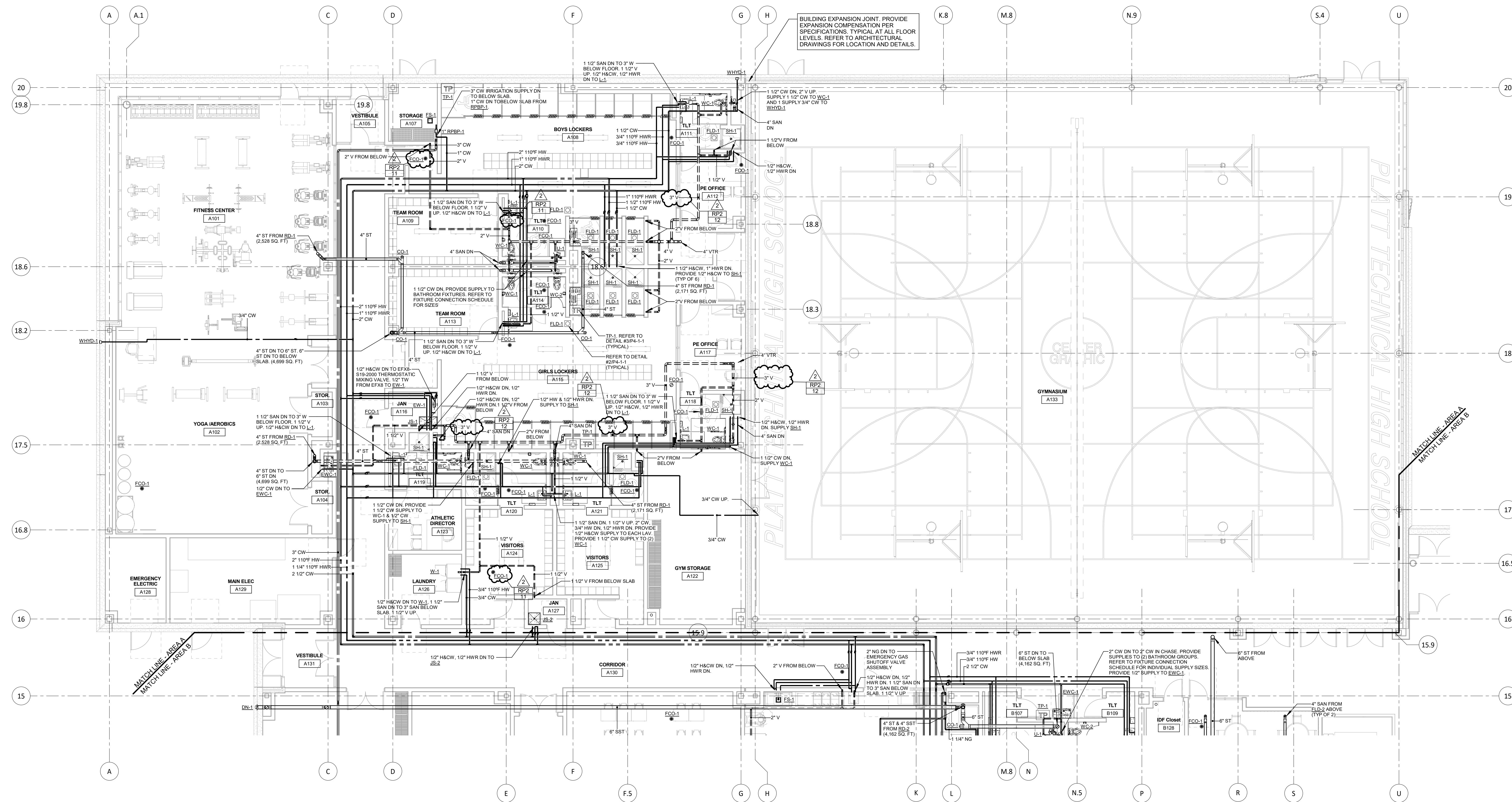
100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title	UNDERSLAB PLUMBING PLAN AREA E		drawing prepared by	date
mark	date	description	Consulting Engineering Services, Inc. 511 Middle St., Middletown, CT 06457	05/24/2019
2	07/30/2019	ADDENDUM NO. 2	scale	As Indicated
project			drawn by	msp
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461			approved by	mc
CAD no.	DCS project no.	OSCRG project no.	drawing no.	P1-1-UE
	18-07-076 CM-R	900-0113		



1 FIRST FLOOR PLUMBING BELOW SLAB - AREA F  
 1/8" = 1'-0"  
 FFE: 07'  
 REFER TO DRAWING P3-1-1 FOR PLUMBING LEGENDS.  
 REFER TO DRAWING P3-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
 REFER TO DRAWINGS P4-1-1, P4-2 & P4-3 FOR PLUMBING DETAILS.

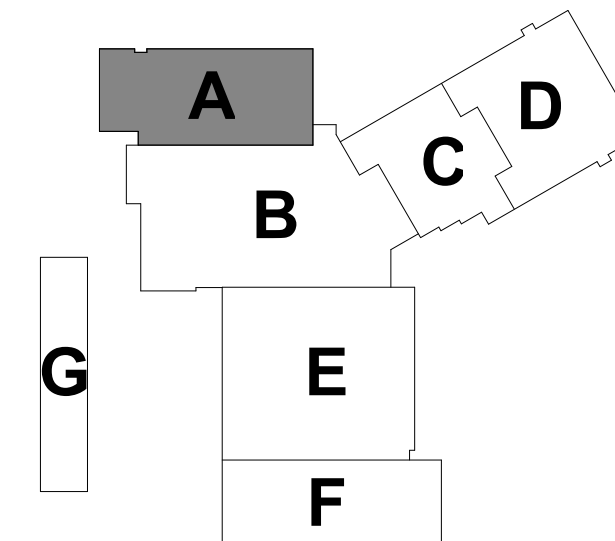


100% CONSTRUCTION DOCUMENTS			
drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
BELOWSLAB PLUMBING PLAN AREA F		drawing prepared by <b>Consulting Engineering Services, Inc.</b> 911 Middle St., Middletown, CT 06457	
REVISIONS		date	
mark	date	description	scale
2	07/30/2019	ADDENDUM NO. 2	As Indicated
project		drawing no.	
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461		approved by JVC	
CAD no.	DCS project no.	OSGCR project no.	P1-1-UF
	19-07-076 CM-R	990-0013	



1 FIRST FLOOR PLUMBING PLAN - AREA A  
1/8" = 1'-0"

FFE: 99  
REFER TO DRAWING P3-1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING P3-12 FOR SCHEDULES & FUTURE CONNECTION SCHEDULE.  
REFER TO DRAWINGS P4-1-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.



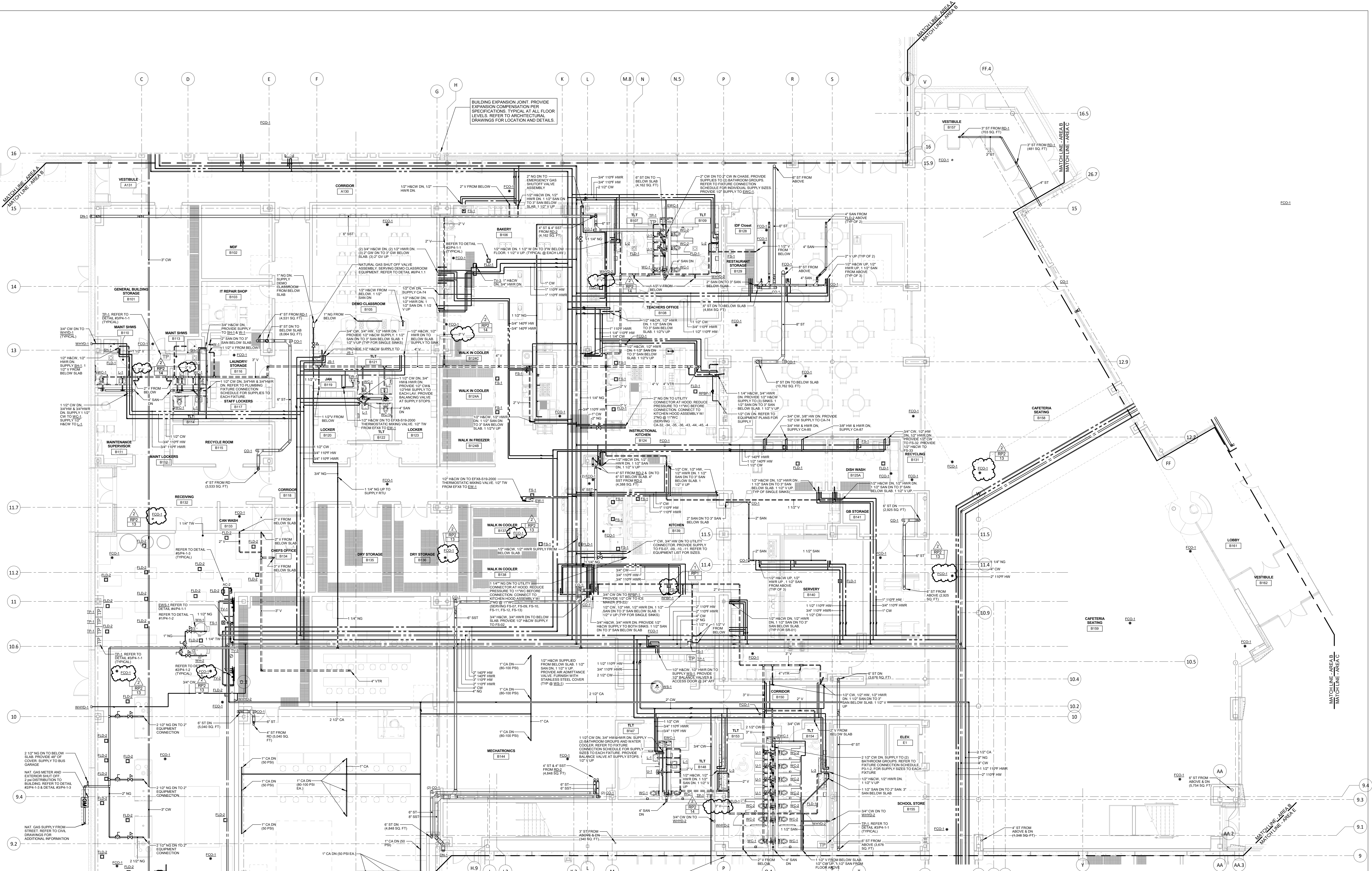
100% CONSTRUCTION DOCUMENTS

drawing title  
FIRST FLOOR  
PLUMBING PLAN  
AREA A

REVISIONS		
mark	date	description
2	07/30/2019	ADDENDUM NO. 2

STATE OF CONNECTICUT  
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by <b>Consulting Engineering Services, Inc.</b> 811 Middle St., Middletown, CT 06457	date 05/24/2019
project <b>ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL</b> 600 Orange Avenue Middletown, CT 06461	scale As Indicated
CAD no. DCS project no. B1-07-076 CM-R	approved by JVC
OSGCR project no. 900-0013	drawing no. <b>P1-1-1A</b>



BUILDING EXPANSION JOINT. PROVIDE EXPANSION COMPENSATION PER SPECIFICATIONS TYPICAL AT ALL FLOOR LEVELS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.

MATCHLINE AREA A  
MATCHLINE AREA B

MATCHLINE AREA A  
MATCHLINE AREA B

EQO-1

**1 FIRST FLOOR PLUMBING PLAN AREA B**  
1/8" = 1'-0"

SEE 9799 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ELEVATION CHANGE LOCATIONS.  
REFER TO DRAWING PS-1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING PS-1 FOR SCHEDULES & FUTURE CONNECTION SCHEDULE.  
REFER TO DRAWINGS P4-1, P4-2 & P4-3 FOR PLUMBING DETAILS.

**100% CONSTRUCTION DOCUMENTS**

drawing title  
**FIRST FLOOR PLUMBING PLAN AREA B**

mark	date	description
1	07/23/2019	ADDENDUM NO. 1
2	07/30/2019	ADDENDUM NO. 2

drawing no. **P1-1-1B**

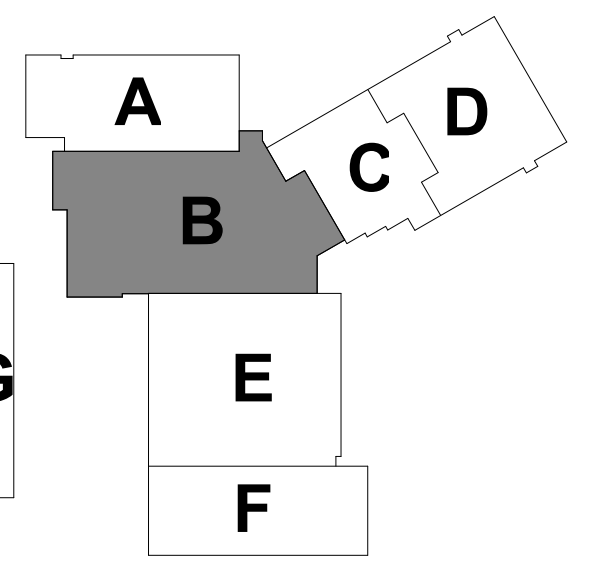
STATE OF CONNECTICUT  
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by  
**Consulting Engineering Services, Inc.**  
911 Main St., Middletown, CT 06457

project  
**ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL**  
600 Orange Avenue Middletown, CT 06461

CAD no. DCS project no. 06-07-076 C.M.R. OSCGR project no. 900-0013

date 05/24/2019  
scale As Indicated  
drawn by MSP  
approved by J.C.  
drawing no. **P1-1-1B**

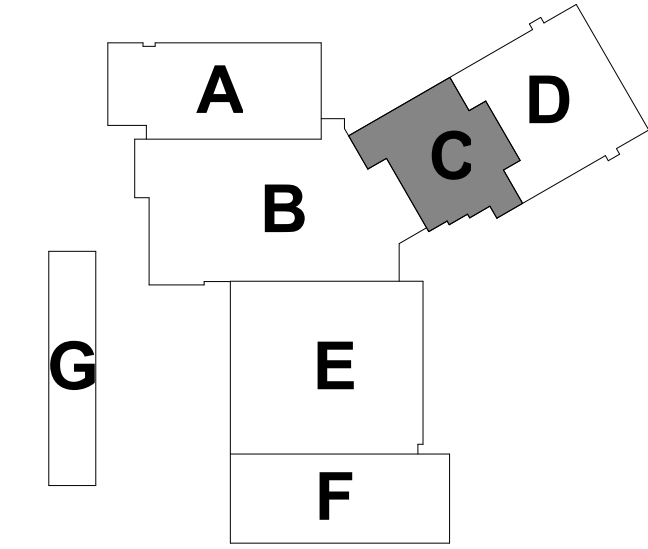




BUILDING EXPANSION JOINT. PROVIDE EXPANSION COMPENSATION PER SPECIFICATIONS. TYPICAL AT ALL FLOOR LEVELS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.

21.1  
1 FIRST FLOOR PLUMBING PLAN - AREA C  
1/8" = 1'-0"

FFE: 99  
REFER TO DRAWING P3-1-1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING P3-1-2 FOR SCHEDULES & FUTURE CONNECTION SCHEDULE.  
REFER TO DRAWINGS P4-1-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.

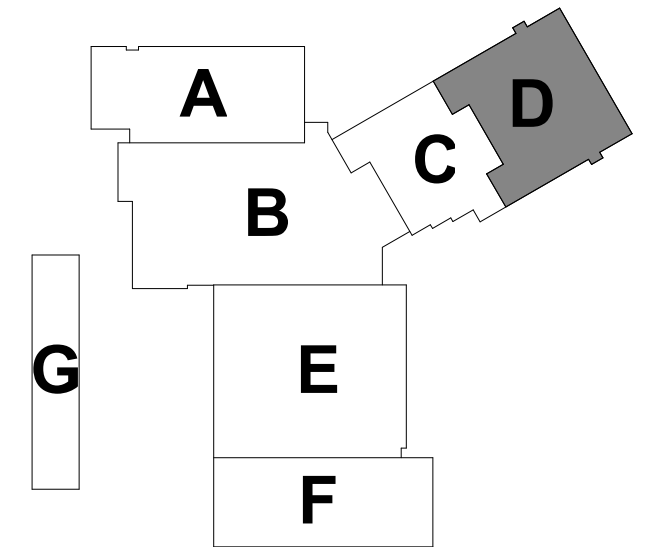


100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title FIRST FLOOR PLUMBING PLAN AREA C			drawing prepared by <b>Consulting Engineering Services, Inc.</b> 811 Middle St., Middletown, CT 06457	
date 05/24/2019			scale As Indicated	
drawn by msp			approved by jnc	
drawing no. P1-1-1C			drawing title ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 400 Orange Avenue Middletown, CT 06461	
project			DCS project no. 01-07-075 CM-R	
CAD no.			OSGCR project no. 990-0013	
mark			date	
2			07/30/2019	
description			ADDENDUM NO. 2	

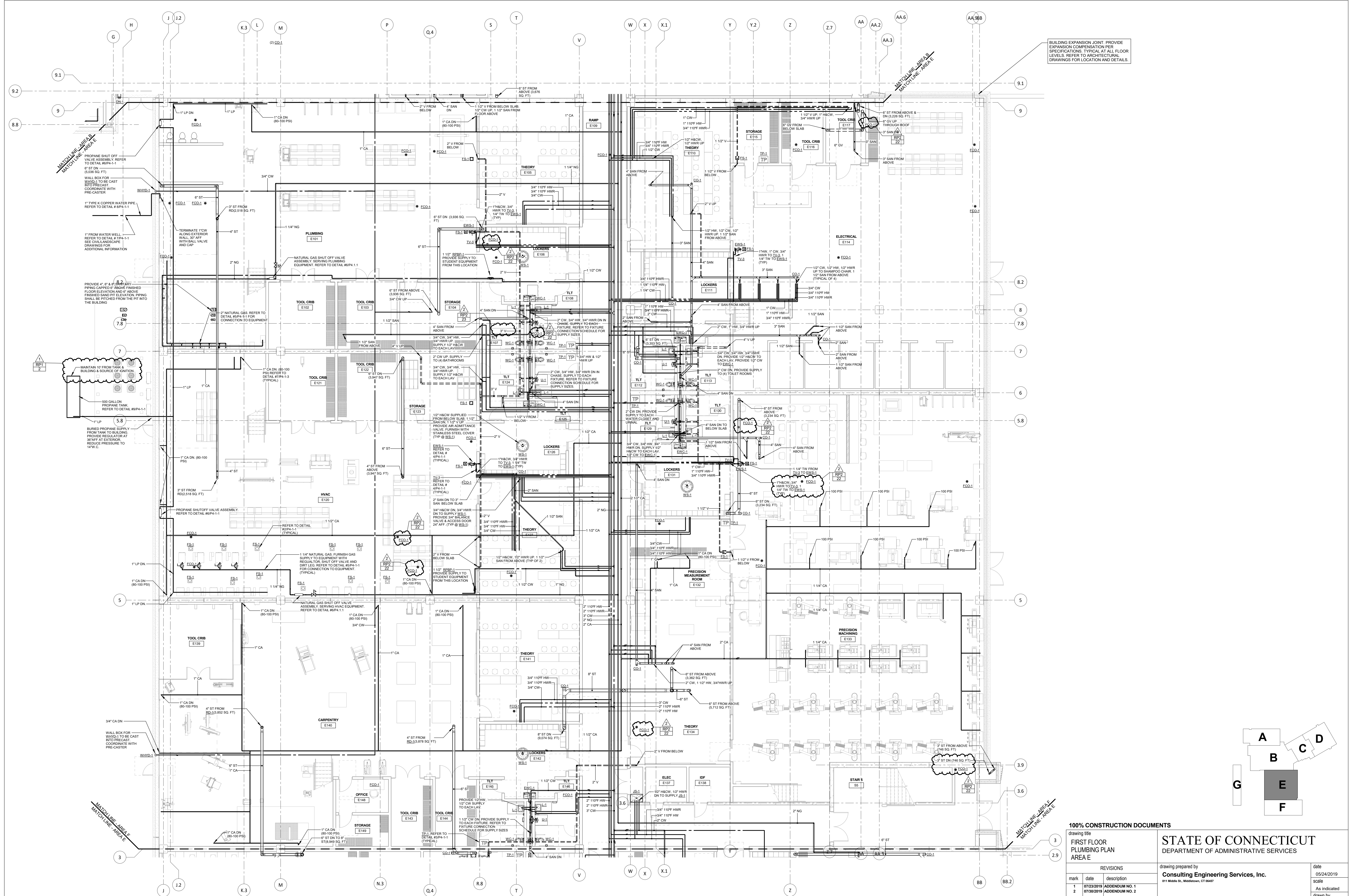


1 FIRST FLOOR PLUMBING PLAN - AREA D  
1/8" = 1'-0"

SEE 99  
REFER TO DRAWING PS-1-1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING PS-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
REFER TO DRAWINGS PS-1-1, PS-1-2 & PS-1-3 FOR PLUMBING DETAILS.



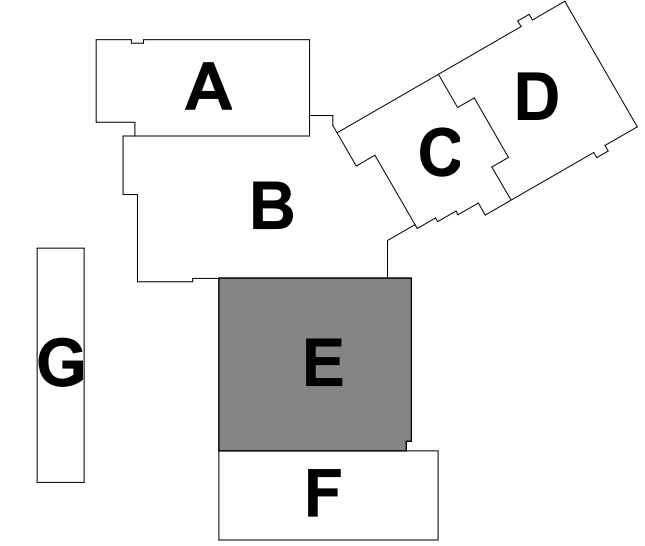
100% CONSTRUCTION DOCUMENTS			drawing title	
FIRST FLOOR PLUMBING PLAN AREA D			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title			date	
FIRST FLOOR PLUMBING PLAN AREA D			05/24/2019	
scale			As Indicated	
drawn by			msf	
approved by			jvc	
drawing no.			P1-1-1D	
project			CAD no.	
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461			DCS project no. 18-07-076 CM-R	
OSGCR project no. 990-0013				
revisions			date	
mark	date	description		
2	07/30/2019	ADDENDUM NO. 2		
prepared by			date	
Consulting Engineering Services, Inc. 911 Middle St., Middletown, CT 06467			05/24/2019	
drawn by			date	
msf			05/24/2019	
approved by			date	
jvc			05/24/2019	
drawing no.			date	
P1-1-1D			05/24/2019	



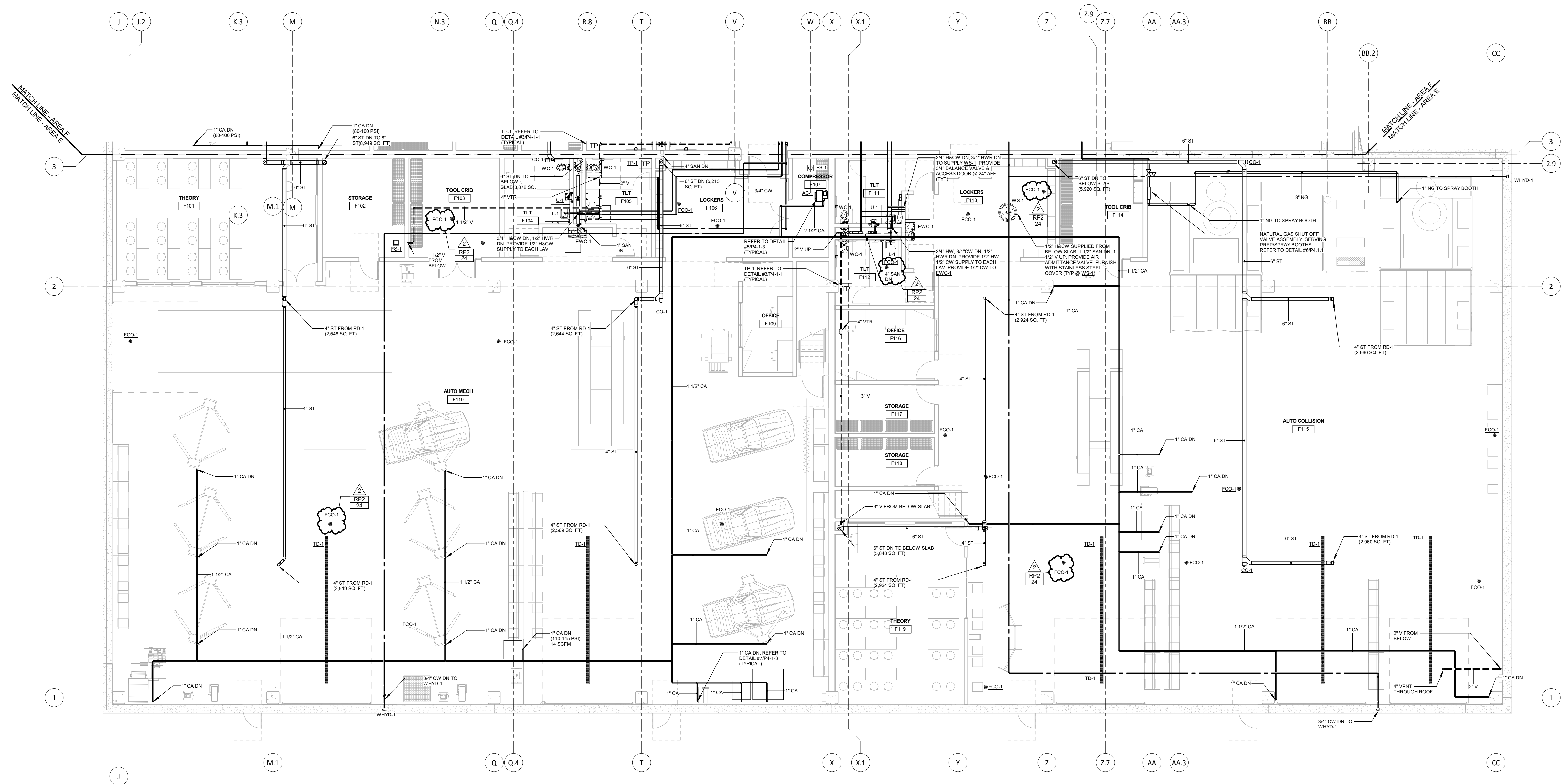
BUILDING EXPANSION JOINT. PROVIDE EXPANSION COMPENSATION PER SPECIFICATIONS TYPICAL AT ALL FLOOR LEVELS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.

1 FIRST FLOOR PLUMBING PLAN - AREA E  
1/8" = 1'-0"

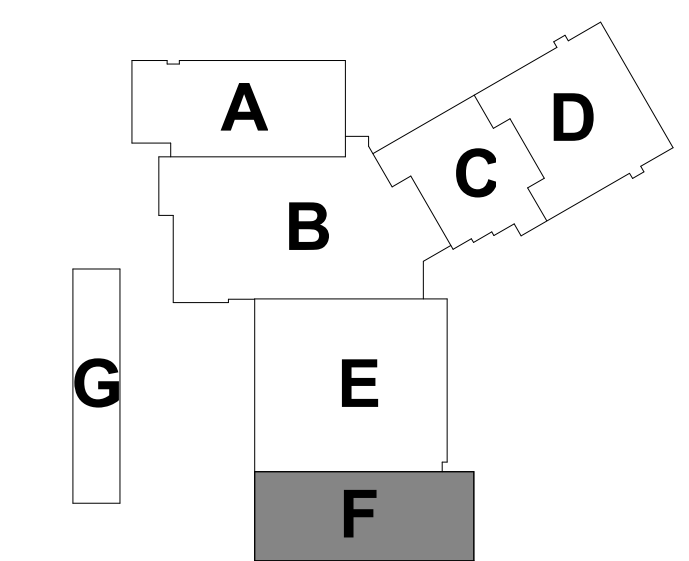
SEE REFERENCE TO DRAWING PS-1-1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING PS-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
REFER TO DRAWING PS-1-1, PA-1-2 & PA-1-3 FOR PLUMBING DETAILS.



100% CONSTRUCTION DOCUMENTS			drawing title	
FIRST FLOOR PLUMBING PLAN AREA E			date	
			05/24/2019	
			scale	
			As Indicated	
			drawn by	
			msc	
			approved by	
			jvc	
			drawing no.	
			P1-1-E	
project <b>ADDITIONS AND RENOVATIONS</b> <b>PLATT TECHNICAL HIGH SCHOOL</b> 600 Orange Avenue Middletown, CT 06461			CAD no. DCS project no. 01-07-076 CM-R	
drawing prepared by <b>Consulting Engineering Services, Inc.</b> 811 Middle St., Middletown, CT 06467			OSGCR project no. 900-0113	

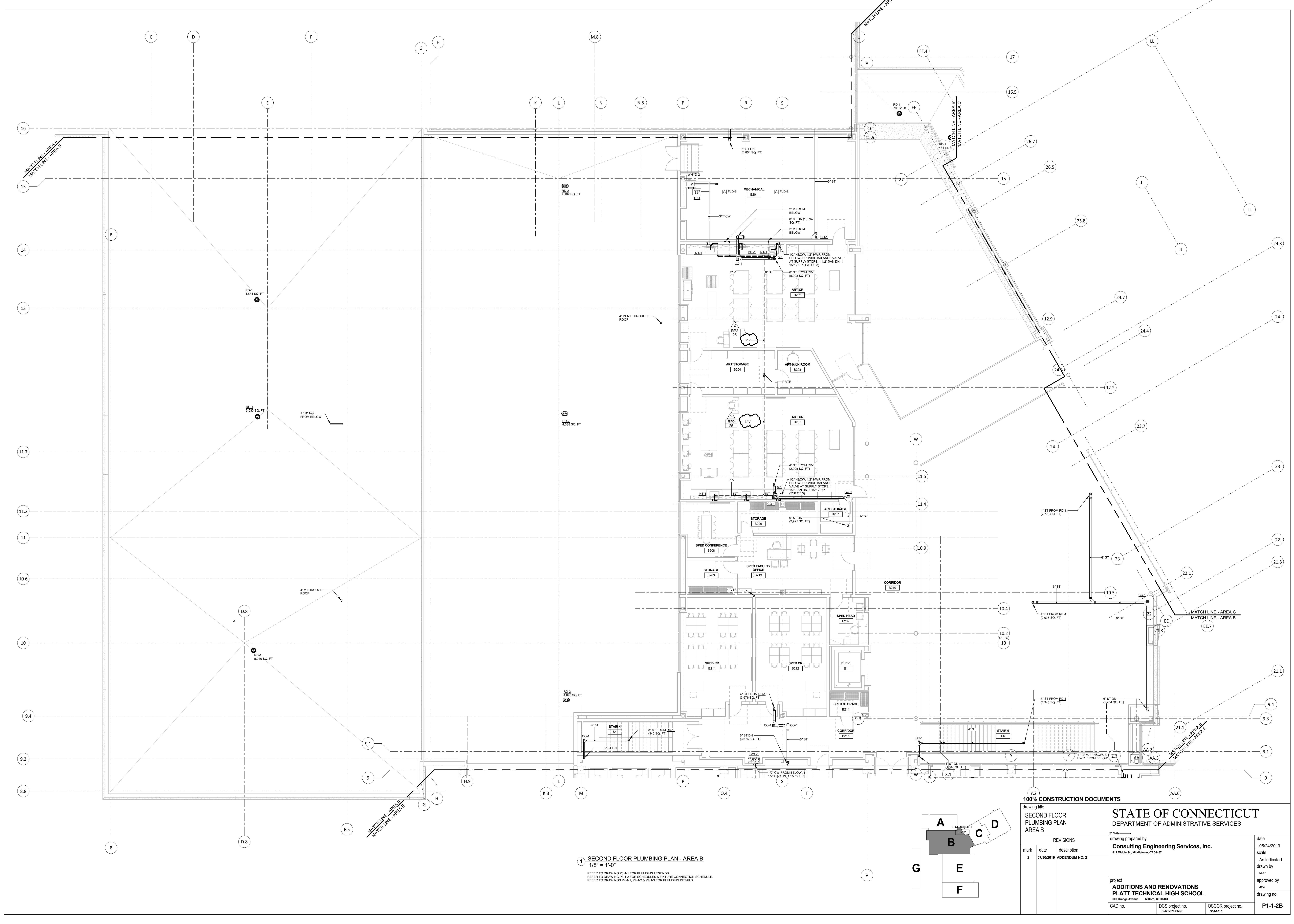


1 FIRST FLOOR PLUMBING PLAN - AREA F  
 1/8" = 1'-0"  
 SEE SF  
 REFER TO DRAWING PS-1-1 FOR PLUMBING LEGENDS.  
 REFER TO DRAWING PS-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
 REFER TO DRAWINGS PA-1.1, PA-1.2 & PA-1.3 FOR PLUMBING DETAILS.



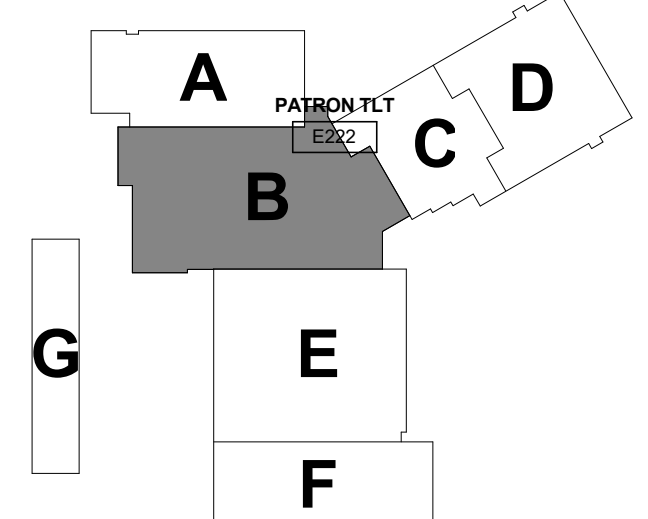
100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES		
drawing title		FIRST FLOOR PLUMBING PLAN AREA F		date	05/24/2019
drawing scale		As Indicated		scale	As Indicated
drawing author		JSP		drawn by	JSP
drawing checker		JSP		approved by	JSP
drawing no.		P1-1-F		drawing no.	P1-1-F
drawing date		07/30/2019		project	ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL
drawing description		ADDENDUM NO. 2		project location	400 Orange Avenue Middletown, CT 06461
drawing prepared by		Consulting Engineering Services, Inc.		CAD no.	08-07-075 CM-R
drawing prepared by address		811 Middle St., Middletown, CT 06461		OSGCR project no.	990-0013





1 SECOND FLOOR PLUMBING PLAN - AREA B  
 1/8" = 1'-0"

REFER TO DRAWING P3-1-1 FOR PLUMBING LEGENDS.  
 REFER TO DRAWING P3-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
 REFER TO DRAWINGS P4-1-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.

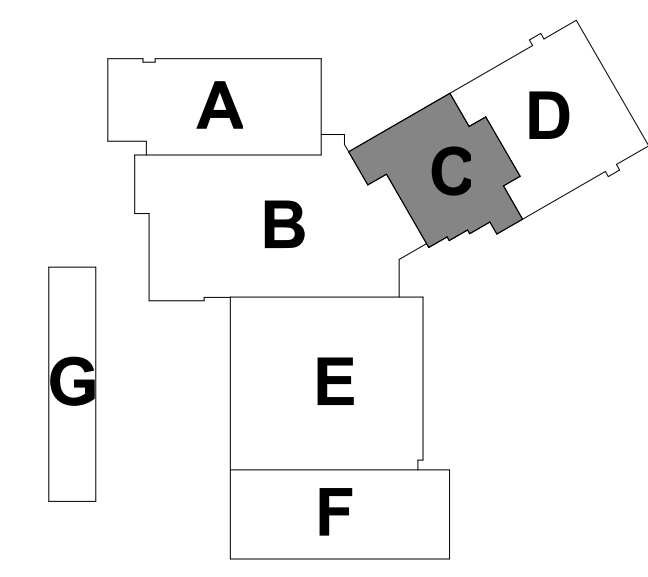


100% CONSTRUCTION DOCUMENTS		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title SECOND FLOOR PLUMBING PLAN AREA B		drawing prepared by <b>Consulting Engineering Services, Inc.</b> 911 Middle St., Middletown, CT 06457	
date 07/30/2019		date 05/24/2019	
description ADDENDUM NO. 2		scale As Indicated	
drawing no. P1-1-2B		drawn by msp	
approved by jnc		project ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461	
CAD no.		OSGCR project no. 990-0013	



1 SECOND FLOOR PLUMBING PLAN - AREA C  
1/8" = 1'-0"

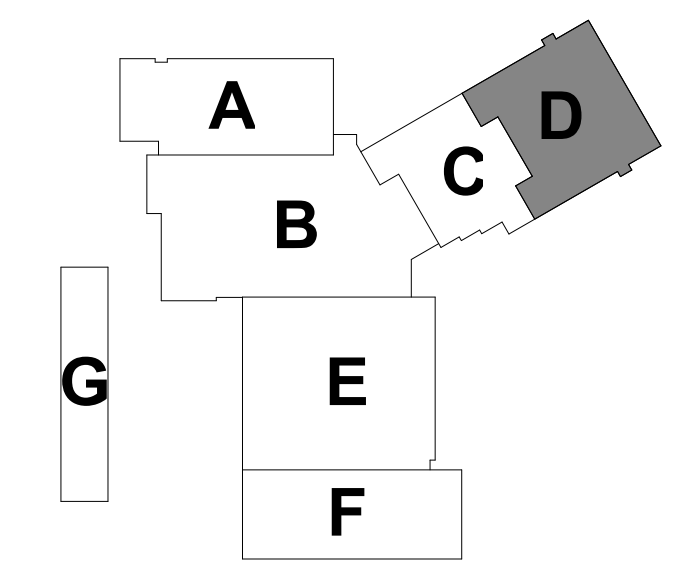
REFER TO DRAWING P3-1-1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING P3-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULE.  
REFER TO DRAWINGS P4-1-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.



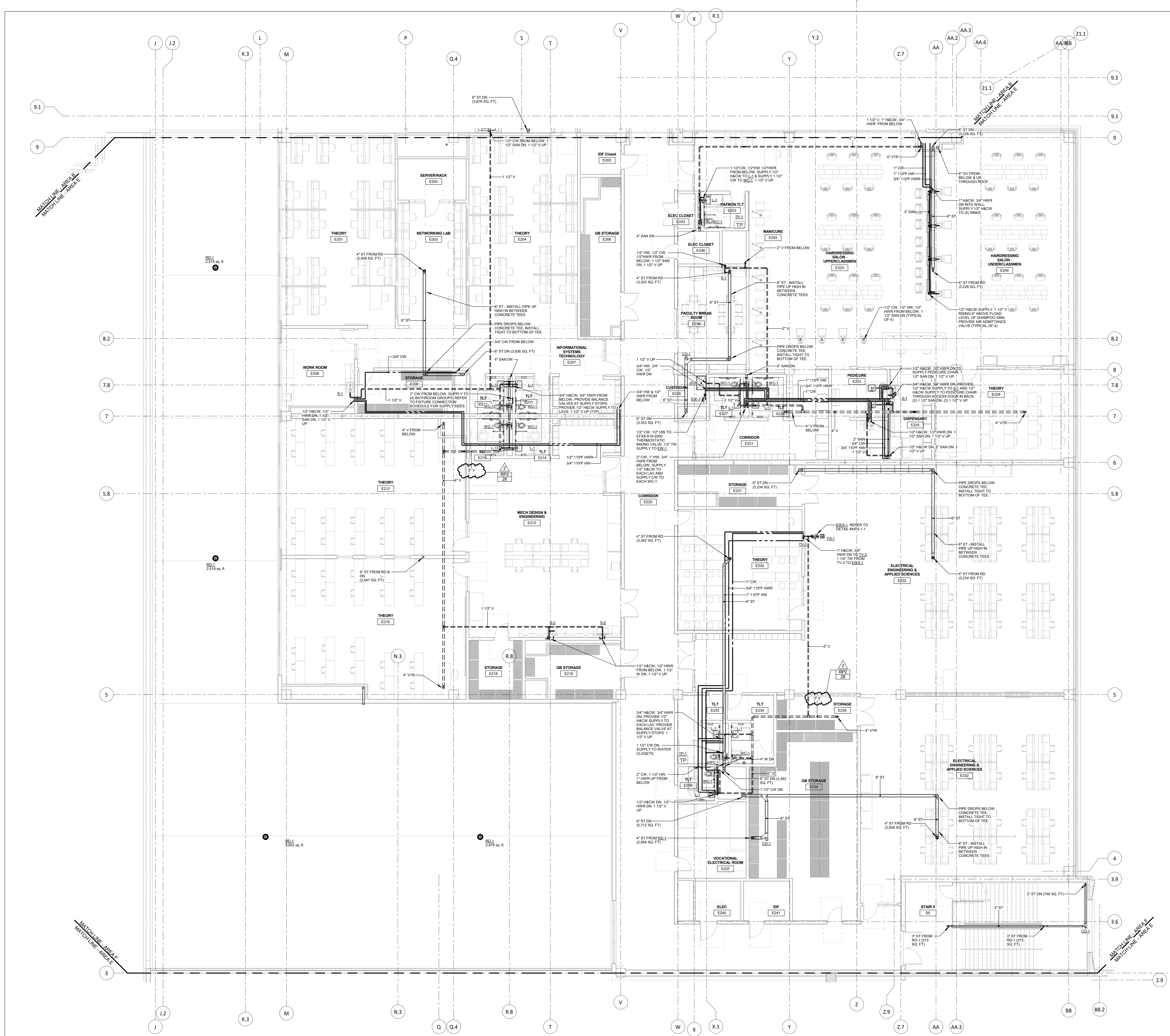
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drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
SECOND FLOOR PLUMBING PLAN AREA C		drawing prepared by <b>Consulting Engineering Services, Inc.</b> 811 Middle St., Middletown, CT 06457	
date		date	
05/24/2019		05/24/2019	
scale		scale	
As Indicated		As Indicated	
drawn by		drawn by	
msf		msf	
approved by		approved by	
jnc		jnc	
drawing no.		drawing no.	
P1-1-2C		P1-1-2C	
project		project	
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461		DCS project no. 18-07-076 CM-R	
CAD no.		OSCR project no. 990-0013	



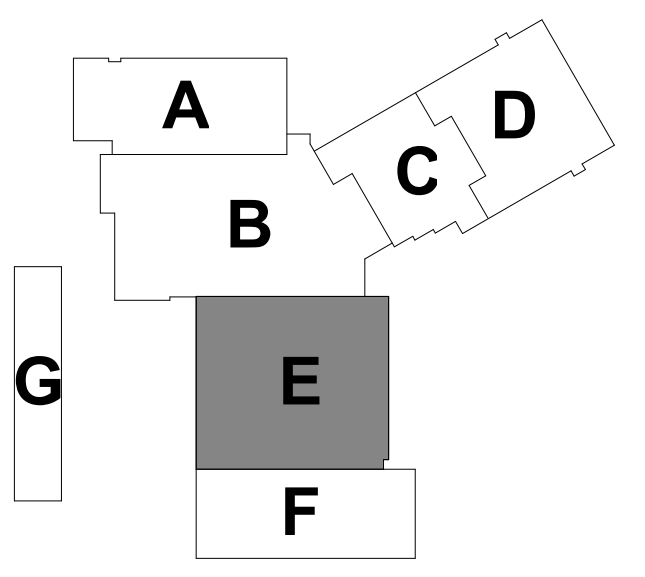
1 SECOND FLOOR PLUMBING PLAN - AREA D  
 1/8" = 1'-0"  
 REFER TO DRAWING P3-1 FOR PLUMBING LEGENDS.  
 REFER TO DRAWING P3-2 FOR SCHEDULES & FEATURE CONNECTION SCHEDULE.  
 REFER TO DRAWINGS P4-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.



100% CONSTRUCTION DOCUMENTS			drawing title	
SECOND FLOOR PLUMBING PLAN AREA D			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
REVISIONS			drawing prepared by	
mark	date	description	Consulting Engineering Services, Inc. 511 Middle St., Middletown, CT 06457	
2	07/30/2019	ADDENDUM NO. 2	date 05/24/2019	
			scale As Indicated	
			drawn by msp	
			approved by .jnc	
			drawing no. P1-1-2D	
project			CAD no.	
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 400 Orange Avenue Middletown, CT 06461			DCS project no. 18-07-075 CM-R	
			OSCR project no. 990-0013	



100% CONSTRUCTION DOCUMENTS			drawing title	
SECOND FLOOR PLUMBING PLAN AREA E			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title			date	
SECOND FLOOR PLUMBING PLAN AREA E			05/24/2019	
drawing scale			scale	
AS INDICATED			As Indicated	
drawing author			drawn by	
msp			msp	
drawing checker			approved by	
jvc			jvc	
drawing number			drawing no.	
P1-1-2E			P1-1-2E	
drawing prepared by			project	
Consulting Engineering Services, Inc.			ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL	
811 Middle St., Middletown, CT 06457			400 Orange Avenue Middletown, CT 06461	
drawing date			CAD no.	
2 07/30/2019			DCS project no. 0507-076 CM-R	
description			OSCRG project no. 990-0013	
ADDENDUM NO. 2				



1 SECOND FLOOR PLUMBING PLAN - AREA E  
1/8" = 1'-0"

REFER TO DRAWING P3-1-1 FOR PLUMBING LEGENDS.  
REFER TO DRAWING P3-1-2 FOR SCHEDULES & FIXTURE CONNECTION SCHEDULES.  
REFER TO DRAWINGS P4-1-1, P4-1-2 & P4-1-3 FOR PLUMBING DETAILS.

AIR COMPRESSOR SCHEDULE										
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SERVING	CAPACITY CFM AT PSIG	MAX PRESSURE PSIG	WEIGHT	CAPACITY GALLONS	ELEC DATA HP-VOLTS- PH	REMARKS
AC-1	INGERSOLL RAND #R33N	DUPLEX	COMPRESSOR ROOM (AREA F)	AUTO-MOTIVE SHOPS	82 CFM @ 125 PSI	-	1720 LBS	120 HORIZONTAL	40/480V/3PH	#1,2,3,4,6
AC-2	INGERSOLL RAND #R4N	DUPLEX	MECH ROOM	REMAINDER OF BUILDING	130 CFM @ 100 PSI	-	1720 LBS	120 HORIZONTAL	60/480V/3PH	#1,2,3,4,6

REMARKS:  
1. ELECTRIC DRIVE  
2. COMPLIANT TO OSHA AND UL STANDARDS  
3. PROVIDE AIR DRYER  
4. PROVIDE CONDENSATE SEPARATOR CS-1 CS-2 AND CS-3  
5. PROVIDE PREMIUM EFFICIENCY MOTOR AND VFD

AIR DRYER SCHEDULE										
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SERVING	CAPACITY CFM AT PSIG	MAX PRESSURE PSIG	WEIGHT	FLA	ELEC DATA KW-VOLTS- PH	REMARKS
ACD-1	INGERSOLL RAND #D1REC	-	MECH ROOM	AC-1	100 CFM @ 100 PSI	-	-	-	0.96/120V/1PH	#1,2
ACD-2	INGERSOLL RAND #D25NC	-	MECH ROOM	AC-2	150 CFM @ 100 PSI	-	-	-	1.29/120V/1PH	#1,2

REMARKS:  
1. ELECTRIC DRIVE WITH POWER CORD  
2. COMPLIANT TO OSHA AND UL STANDARDS

PLUMBING FIXTURE CONNECTION SCHEDULE						
FIXTURE TYPE	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION	TEPID WATER	
DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	-	-	
DRINKING FOUNTAIN (2 BOWL)	1 1/2" (2)	1 1/2" (2)	1/2" (2)	-	-	
EMERGENCY SHOWER	-	-	1"	1"	1 1/4"	
JANITORS MOP BASIN	2"	1 1/2"	1/2"	1/2"	-	
LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	-	
SINK	1 1/2"	1 1/2"	1/2"	1/2"	-	
URNAL	2"	1 1/2"	3/4"	-	-	
WATER CLOSET (FLUSH VALVE)	4"	2"	1 1/2"	-	-	
HOSE BIB (CW ONLY)	-	-	1/2"	-	-	
HOSE BIB (CW & HW)	-	-	1/2"	1/2"	-	

NOTES:  
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURE MOUNTING HEIGHTS.  
2. ALL PIPE TRAPS AT SINKS AND LAVATORIES SHALL BE CHROME PLATED BRASS.

WATER HAMMER ARRESTOR SCHEDULE						
SYMBOL	MANUFACTURER/ MODEL NUMBER	SIZE N.P.T.	OVERALL LENGTH	PRELOAD PSI (AIR)	FIXTURE UNITS	REMARKS
WHA-1	PPP MODEL# SC-500	1/2"	5"	60	1-11	1,2,3,4
WHA-2	PPP MODEL# SC-750	3/4"	6"	60	12-32	1,2,3,4
WHA-3	PPP MODEL# SC-1000	1"	6 3/4"	60	33-60	1,2,3,4
WHA-4	PPP MODEL# SC-1250	1 1/4"	8 3/4"	60	61-113	1,2,3,4
WHA-5	PPP MODEL# SC-1500	1 1/2"	10 1/4"	60	114-154	1,2,3,4
WHA-6	PPP MODEL# SC-2000	2"	10 7/8"	60	155-330	1,2,3,4

NOTES:  
1. LOCATE WATER HAMMER ARRESTORS AS CLOSE AS POSSIBLE TO SHOCK SOURCE.  
2. INSTALL PER ALL MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.  
3. LOCATE IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS AS REQUIRED.  
4. FIXTURE UNITS SHALL BE BASED ON THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE.

PLUMBING SPECIALTIES SCHEDULE											
SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
CO-1	JR SMITH MODEL # 4532S-U	CLEANOUT: CAST IRON TEE WITH TAPERED BRONZE PLUG.	VANDAL PROOF SCREWS	-	#6.10	INT-2	JR SMITH 8625	OL INTERCEPTOR WITH GRAY DUCO COATING INSIDE AND OUTSIDE. 25 GPM FLOW CONTROL FITTING	ANCHOR FLANGE, NO-HUB ADAPTER	-	-
CO-2	ORION MODEL # COA/PC	ACID WASTE CLEANOUT: PPE/PDVF WITH TAPER THREAD-PLUG.	-	-	#6.10	RD-1	WATTS MODEL #RD-100-NB-D-F-I-K	ROOF DRAIN: EPOXY COATED, CAST IRON BODY WITH CAST IRON DOME, NO HUB OUTLET. OUTLET SIZE SHALL BE INDICATED ON DRAWINGS.	UNDER DECK CLAMP, VANDAL PROOF DOME, SUMP RECEIVER, EXTENSION SLEEVE FOR ROOF INSULATION.	-	#6
DN-1	WATTS MODEL # RD-940	DOWNPOUT NOZZLE: TYPE 304 STAINLESS STEEL, DOWNPOUT EPOXY COATED, CAST IRON BODY WITH CAST IRON DOME, NO HUB OUTLET. OUTLET SIZE SHALL BE INDICATED ON DRAWINGS.	-	-	#6	RD-2	WATTS MODEL #RD-700-CT-B-D-F-L	ROOF DRAIN: COMBINATION PRIMARY SECONDARY DRAINS. EPOXY COATED, CAST IRON BODY WITH CAST IRON DOME, NO HUB OUTLET. OUTLET SIZE SHALL BE INDICATED ON DRAWINGS.	UNDER DECK CLAMP, VANDAL PROOF DOME, SUMP RECEIVER, EXTENSION SLEEVE FOR ROOF INSULATION.	-	#6
DN-1	WATTS MODEL # RD-940	DOWNPOUT NOZZLE: TYPE 304 STAINLESS STEEL, DOWNPOUT EPOXY COATED, CAST IRON BODY WITH CAST IRON DOME, NO HUB OUTLET. OUTLET SIZE SHALL BE INDICATED ON DRAWINGS.	-	-	#6	RD-2	WATTS MODEL #RD-700-CT-B-D-F-L	ROOF DRAIN: COMBINATION PRIMARY SECONDARY DRAINS. EPOXY COATED, CAST IRON BODY WITH CAST IRON DOME, NO HUB OUTLET. OUTLET SIZE SHALL BE INDICATED ON DRAWINGS.	UNDER DECK CLAMP, VANDAL PROOF DOME, SUMP RECEIVER, EXTENSION SLEEVE FOR ROOF INSULATION.	-	#6
DNT-1	ZURN MODEL # Z9A-NT-20023A-NT-200	DILUTION/ACID NEUTRALIZATION TANK: POLYETHYLENE TANK, 200 GALLONS, BOLTED COVER, 4" INLET/OUTLET, 3" VENT, 30" DIAMETER, 48" HEIGHT.	PROVIDE EXTRA 1.700 LBS OF LIME FOR OWNER'S FUTURE USE	-	-	BPP-1	WATTS MODEL # 909-QT-S 3/4" TO 2"	REDUCED PRESSURE BACKFLOW PREVENTER: BRASS OR CAST IRON BODY WITH CORROSION RESISTANT INTERNAL PARTS AND SST SPRINGS.	SHUT OFF VALVES UP TO 2" BRONZE BODY BALL VALVES, OVER 2" - OS&Y GATE VALVE.	MAXIMUM OF 5' 0" ABOVE FINISHED FLOOR.	#5.6
EL-1	AMTROL MODEL # ST-120V-C	EXPANSION TANK: STEEL TANK, 66 GALLON, POLYPROPYLENE LINER ASME PRECHARGED.	-	-	#4	TD-1	JR SMITH # 9940	TRENCH DRAIN: PRE-SLOPED, 6" WIDE ZIP TRENCH, ADA COMPLIANT, REINFORCED STAINLESS STEEL SLANTED GRATE, LOAD CLASS "E" RATED ASSEMBLY.	-	-	-
FCO-1	JR SMITH MODEL # 4023S-PB-U	FLOOR CLEANOUT: CAST IRON BODY, ROUND ADJUSTABLE POLISHED BRONZE TOP, FLANGE GASKET INSIDE, CAULK OUTSIDE. VANDAL PROOF & BRONZE PLUG.	FLASHING CLAMP FOR CARPETED FLOORS	-	#6.10, 11	TP-1	PRECISION PLUMBING MODEL # PFS-4	TRAP PRIMER: ELECTRIC PRIMING MANIFOLD, INTERNAL VACUUM BREAKER, 1/2" INLET AND OUTLET SERVICES, 4-12 DRAINS, SOLENOID VALVE 120V, 6 WATTS, 60HZ.	FURNISH MODEL REQUIRED FOR THE NUMBER OF FLOOR DRAINS SHOWN ON THE DRAWINGS.	-	#2.4
FCO-2	ORION MODEL # COA/PC	FLOOR CLEANOUT: PPE/PDVF WITH TAPER THREAD-PLUG.	-	-	#6.10, 11	TV-1	POWERS INTELLISTATION MODEL # LFI5200	THERMOSTATIC MIXING VALVE: THERMOSTATIC HI-LOW WATER CONTROLLER, TEMPERATURE RANGE: 90°F-160°F, 5 PSIG PRESSURE DROP AT 96 GPM.	PRE-PIPED ASSEMBLY INCLUDING PRESSURE/TEMP GAUGES, BYPASS REGULATION PUMP, BALANCE VALVES, ASSEMBLY MOUNTED ON UNISTRUT.	-	#4
FLO-1	JR SMITH MODEL # 2010C-U-P050	FLOOR DRAIN: CAST IRON BODY, ROUND ADJUSTABLE NICKEL BRONZE STRAINER, FLASHING COLLAR, TRAP PRIMER CONNECTIONS, AND SEDIMENT BUCKET.	FURNISH WITH VANDAL PROOF GRATE, TRAP PRIMER CONNECTION	-	#6.9, 13	TV-2	POWERS INTELLISTATION MODEL # LFI5150	THERMOSTATIC MIXING VALVE: THERMOSTATIC WATER CONTROLLER, TEMPERATURE RANGE: 0°F-140°F, 5 PSIG PRESSURE DROP AT 60 GPM.	PRE-PIPED ASSEMBLY INCLUDING PRESSURE/TEMP GAUGES, BYPASS REGULATION PUMP, BALANCE VALVES, ASSEMBLY MOUNTED ON UNISTRUT.	-	#4
FLO-2	JR SMITH MODEL # 2250-U	FLOOR DRAIN: CAST IRON BODY, ROUND ADJUSTABLE HEAVY DUTY CAST IRON BAR GRATE, FLASHING COLLAR, TRAP PRIMER CONNECTION, AND SEDIMENT BUCKET.	FURNISH WITH VANDAL PROOF GRATE, TRAP PRIMER CONNECTION	-	#6.9, 13	TV-3	BRADLEY MODEL # S19-2200	THERMOSTATIC MIXING VALVE: THERMOSTATIC HI-LOW WATER CONTROLLER, TEMPERATURE RANGE: 65°F-96°F, 5 PSIG PRESSURE DROP AT 72 GPM SET TEMPERATURE AT 22°F.	BRONZE BODY POLISHED CHROME WITH INLET CHECK VALVES, TEMPERATURE GAUGE RECESSED MOUNTING BOX WITH LOCK.	-	#4
FLO-3	ZURN MODEL # Z9A-FD2-428A-FD-4	FLOOR DRAIN: POLYPROPYLENE BODY WITH ROTOM OUTLET, POLYPROPYLENE INVERTIBLE MEMBRANE CLAMP W/ ADJUSTABLE STAINLESS STEEL HEAD AND GRATE.	FURNISH WITH VANDAL PROOF GRATE, TRAP PRIMER CONNECTION	-	#6.9, 13	W-1	SYMMONS MODEL # W-602 LAURICKY-MATE WITH PRECISION PLUMBING MODEL # SC-500 THROUGH #SC-1500	WASHER BOX: SUPPLY & DRAIN FITTING W/ LEVER OPERATION, 2" WASTE OUTLET, RECESSED IN WALL.	3/4" THREADED HOSE CONNECTIONS, FURNISH WITH WHA-1 BRASS PISTON AND 3/4" THREADED ENDS.	-	#4
ES-1	JR SMITH MODEL # 3100C-13	FLOOR SINK: 6" DEEP RECEPTOR, NICKEL-BRONZE RIM, CAST IRON DOME STRAINER, AND FLASHING CLAMP.	8 1/2" SQUARE NICKEL BRONZE TOP WITH 3/4" VANDAL PROOF GRATE. PROVIDE SURE SEAL TRAP SEAL.	-	#6.9, 13	WCO-1	JR SMITH MODEL # 4402C-U	WALL CLEANOUT: DUCO CAST IRON, SPIGOT, FERRULE CAST BRONZE THREAD PLUG, STAINLESS STEEL ROUND COVER AND SCREW.	VANDAL PROOF SCREWS.	-	#6.10, 12
GT-1	T & S MODEL # BL-4200-01	GAS TURBET: ADA COMPLIANT, 3.68" DIAMETER BASE WITH BALL VALVE HOSE COOK AND SERATED TIP, PLASTIC GASKET.	FURNISH WITH SNAP-IN INDEX, AIR, VAC, OR GAS AS APPLICABLE.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, QUANTITIES AND MOUNTING HEIGHTS.	#4	WHA-1	PRECISION PLUMBING MODEL # SC-500 THROUGH # SC-1500	WATER HAMMER ARRESTOR: BARREL FABRICATED OF TYPE "K" HARD DRAIN COPPER, WITH "C" RING SEALS.	BRASS PISTON AND THREADED ADAPTER	-	#6
HB-1	WOODFORD MODEL # B26	HOSE BIB: BACKFLOW PROTECTED BRONZE BODY, CHROME PLATED HANDWHEEL.	3/4" THREADED HOSE CONNECTION.	18" ABOVE FLOOR	#4	WHYD-1	WOODFORD MODEL # B67	WALL HYDRANT: VACUUM BREAKER, FREEZE PROOF, FLUSH MOUNTING BOX WITH HINGED COVER, CHROME PLATED.	3/4" THREADED HOSE CONNECTION.	24" ABOVE GRADE.	#3.4
INT-1	JR SMITH MODEL # 8730-T	SEDIMENT INTERCEPTOR: SUSPENDED TYPE, CAST IRON BODY, ALUMINUM STRAINER AND REMOVABLE STAINLESS STEEL SCREENS, 1/4" DRAIN PLUG.	-	BELOW FIXTURE	#7	WHYD-2	WOODFORD MODEL # B75	WALL HYDRANT: VACUUM BREAKER, FLUSH MOUNTING BOX WITH HINGED COVER, CHROME PLATED.	3/4" THREADED HOSE CONNECTION.	24" ABOVE GRADE.	#3.4

REMARKS:  
1. FIXTURES AND TRIM AS NOTED SHALL BE "ADA APPROVED" AND SHALL BE MOUNTED TO ADA AND ANSI A117 REQUIREMENTS.  
2. THE TRAP PRIMER SHALL BE INSTALLED A MINIMUM OF 1' FOOT ABOVE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE.  
3. PROVIDE EACH HYDRANT WITH A LOOSE KEY. CONTRACTOR SHALL VERIFY WALL THICKNESS.  
4. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS.  
5. PROVIDE AN AIR GAP FITTING ON THE DRAIN LINE, MOUNT AT A SUFFICIENT HEIGHT TO ALLOW PROPER DRAINAGE.  
6. REFER TO FLOOR PLANS FOR SIZES.  
7. MAINTAIN MINIMUM OF 9 1/2 INCHES CLEAR ABOVE INTERCEPTOR FOR STRAINER REMOVAL.  
8. INSTALL SIZED PER LOAD (WSPU) RECOMMENDED BY PDI & MANUFACTURER.  
9. FURNISH WITH TRAP PRIMER CONNECTION AND TRAP PRIMER TP-1.  
10. PROVIDE CLEAN OUT AT ALL HORIZONTAL TURNS GREATER THAN 45 DEGREES FOR ALL STORM AND SANITARY PIPING.  
11. PROVIDE FLOOR CLEAN OUT FOR ALL BURIED STORM AND SANITARY PIPING, NOT MORE THAN 100' APART. PROVIDE FCO AT ALL STORM & SANITARY LATERALS BEFORE EXISTING FOUNDATION.  
12. PROVIDE W/O AT BASE OF ALL SANITARY AND STORM STACKS. FURNISH WITH ACCESS DOOR OR COVER.  
13. DRAIN GRATES SHALL BE 1/2" MAXIMUM SPACING.

PUMP SCHEDULE							
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SYSTEM SERVED	CAPACITY	FLUID TEMP (°F)	REMARKS
HWRP-1	TACO 1616 CIRCULATOR	IL	BOILER ROOM	DOMESTIC 110°F HW	-	110°F	3/4-200V-50 ALL
HWRP-2	TACO 1615 CIRCULATOR	IL	BOILER ROOM	DOMESTIC 140°F HW	-	140°F	3/4-200V-50 ALL

NOTES:  
IL = IN-LINE PUMP  
SP = SUBMERSIBLE PUMP  
REMARKS:  
1. PUMP SHALL BE BRONZE FOR DOMESTIC WATER USE.  
2. PROVIDE WITH THERMOSTATIC MIXING VALVE (T.M.V.)

GAS FIRED WATER HEATER SCHEDULE							
SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	FUEL TYPE	BTHU INPUT	STORAGE CAP. (GAL)	REMARKS
WH-1	PVI MODEL # 100 L 130-GCM	S	BOILER ROOM	GAS	999,000	130	1157 120V-16-11 NOTE #1,2,3
WH-2	PVI MODEL # 100 L 130-GCM	S	BOILER ROOM	GAS	999,000	130	1157 120V-16-11 NOTE #1,2,3

NOTES:  
S= STORAGE  
1. WATER HEATER SHALL BE PROVIDED WITH A MINIMUM OF 4 1/2" - 14"W.C. GAS PRESSURE.  
2. COORDINATE WATER HEATER OPERATION WITH COMBUSTION AIR LOUVER. LOUVER SHALL OPEN WHEN WATER HEATER BURNER IS ON AND CLOSE WHEN BURNER IS OFF.  
3. WATER HEATER SHALL BE PROVIDED WITH ELECTRONIC IGNITION.

PLUMBING FIXTURE SCHEDULE										
SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS	
ES-1	FURNISHED UNDER DIVISION 11 BY PLUMBING CONTRACTOR	SCIENCE LABORATORY SINK: STANDARD	PLUMBING CONTRACTOR SHALL INSTALL FITTINGS AND DEVICES AS SPECIFIED ON EQUIPMENT DRAWINGS.	#2,3,4,10	L-3	BRADLEY MODEL #LVRD-3	LAVATORY: ACCESSIBLE THREE STATIONS 30" ON CENTER, QUARTZ SURFACE, VANDAL RESISTANT.	FURNISH WITH IR-DCG ELECTRONIC FAUCET W/ 4 BATTERIES, STAINLESS STEEL ACCESS PANEL.	#3,4,7	
ES-2	FURNISHED UNDER DIVISION 11 BY PLUMBING CONTRACTOR	SCIENCE LABORATORY SINK: STANDARD	PLUMBING CONTRACTOR SHALL INSTALL FITTINGS AND DEVICES AS SPECIFIED ON EQUIPMENT DRAWINGS.	#2,4,10	S-1	ELKAY "LUSTERONE" MODEL # ELH4HD101650	SINK: ACCESSIBLE UNDERMOUNT, 18 GAUGE, TYPE 304 S.S.T. 6" DEEP, REAR OFFSET DRAIN LOCATION.	T&S MODEL # B-2741 SINGLE 6" LEVER GOOSENECK FAUCET WITH 1.0 GPM AERATOR, CHROME GRID DRAIN ASSEMBLY # 4-6.	#2,3,4,6,11	
ENL-1	BRADLEY MODEL # S194622ABC	EYEWASH: WALL MOUNTED DUAL PURPOSE STATIONARY OR REMOVABLE. EYE/FACE WASH 12" HOSE, DUAL SPRAY HEADS, FLOWS 3.9-5.9 GPM AT 30-90 PSI.	1/2" CHROME PLATED BRASS STAY OPEN BALL VALVE, STAINLESS STEEL FLAG HANDLE, FURNISH WITH BRADLEY EFX-219-200 THERMOSTATIC MIXING VALVE (1/2" H&CW SUPPLY)	#3,4,11	S-2	FURNISHED UNDER DIVISION 11 BY PLUMBING CONTRACTOR	SCIENCE LABORATORY SINK: STANDARD	PLUMBING CONTRACTOR SHALL INSTALL FITTINGS AND DEVICES AS SPECIFIED ON EQUIPMENT DRAWINGS.	#2,3,4,10	
EW-1	ELKAY MODEL # LVRCTLRWS	ELECTRIC WATER COOLER: ACCESSIBLE, DOUBLE BOWL, VANDAL-RESISTANT SURFACE MOUNTED, 120V-10, 14 GAUGE SST, FRONT PUSH BARS, 5 LB. FORCE BUBBLER GUARD, 1.1 GPM BOTTLE FILLER.	FURNISH WITH HANGER BRACKET AND CANE APRON, REPLACEMENT FILTERS MOUNTED 12" ON ONE 12" PACK PER FIXTURE)	#3,4	SH-1	BUILT UP SHOWER REFER TO ARCHITECTURAL DRAWINGS.	SHOWER: ACCESSIBLE, MUD SET TILE FLOOR, REFER TO ARCHITECTURAL DRAWINGS.	SYMMONS "SAFETYMAX" MODEL # C-96-500-B30-V-X, WITH HAND SHOWER AND FLEX METAL HOSE WITH VACUUM BREAKER AND SLIDE BAR, VANDAL PROOF SHOWER HEAD, JR SMITH MODEL # 2005 2" DRAIN.	#3,4,7,8	
EW-2	ELKAY MODEL # LZWS-EDFPM117X	ELECTRIC WATER COOLER: ACCESSIBLE, DOUBLE BOWL, VANDAL-RESISTANT SURFACE MOUNTED, 120V-10, 14 GAUGE SST, FRONT PUSH BARS, 5 LB. FORCE BUBBLER GUARD, 1.1 GPM BOTTLE FILLER.	FURNISH WITH HANGER BRACKET AND CANE APRON, REPLACEMENT FILTERS MOUNTED 12" ON ONE 12" PACK PER FIXTURE)	#3,4	SH-2	BUILT UP SHOWER REFER TO ARCHITECTURAL DRAWINGS.	SHOWER: STANDARD, MUD SET TILE FLOOR, REFER TO ARCHITECTURAL DRAWINGS.	SYMMONS "SAFETYMAX" MODEL # C-96-1-295-X WITH VANDAL PROOF SHOWER HEAD MODEL # 4-295, JR SMITH MODEL # 2005 2" DRAIN.	#4,7,8	
EW-3	BRADLEY MODEL # S194618FF9	EYEWASH: BARRIER FREE SHOWER W/ EYEWASH, IMPACT-RESISTANT HEAD, DELIVERING 3 GPM MIN FLOW, 12" REAR RESISTANT PLASTIC BOSS SHOWER HEAD DELIVERING 20 GPM MIN AT 30 PSI.	1" IPS STAY OPEN BALL VALVE WITH 4" 0" PULL ROD AND HANDLE, 1/2" CHROME PLATED BRASS STAY OPEN BALL VALVE EPOXY COATED ALUMINUM FLAG HANDLE.	#3,4,9	U-1	AMERICAN STANDARD "WASHROOM" MODEL # 6590 001	URNAL: ACCESSIBLE, WALL HUNG, VITREOUS CHINA, 3/4" TOP SPUD, 1 1/2" REAR SPUD, 1.28 MAX GPF. BREAKER AND ADJUSTABLE TAILPIECE.	SLOAN FLUSH VALVE MODEL # 18-ESS-0-123-SB-SF-TM-HV, JR SMITH 0700 CARRIER.	#1,3,4,5,9,14	
JS-1	FIAT MODEL # MSB-3624	JANITORS SINK: ACILE, 24"X36"X10", SSI INTEGRAL DRAIN BODY.	SEE REMARK #12	#1,4,12	WC-1	AMERICAN STANDARD "AFWALL" MODEL # 2856.128	WATER CLOSET: ACCESSIBLE, WALL HUNG, ELONGATED BOWL, VITREOUS CHINA, 1 1/2" REAR SPUD, 1.28 MAX GPF.	SLOAN MODEL # 111-1-28-ES-S-TWO, SENSOR FLUSH VALVE W/ INTEGRAL STOP, MECHANICAL OVERSIDE & VACUUM BREAKER OLSONITE # 5655 OPEN FRONT, COVERLESS, WHITE SEAT, WALL SUPPORT, JR SMITH SERIES 0200.	#1,3,4,5,13	
JS-2	FIAT MODEL # MSB-2424	JANITORS SINK: MOLDDED STONE BASIN, 24"X36"X10", SSI INTEGRAL DRAIN BODY.	SEE REMARK #12	#2,4	WC-2	AMERICAN STANDARD "AFWALL" MODEL # 2856.128	WATER CLOSET: STANDARD, WALL HUNG, ELONGATED BOWL, VITREOUS CHINA, 1 1/2" REAR SPUD, 1.28 MAX GPF.	SLOAN MODEL # 111-1-28-ES-S-TWO, SENSOR FLUSH VALVE W/ INTEGRAL STOP, MECHANICAL OVERSIDE & VACUUM BREAKER OLSONITE # 5655 OPEN FRONT, COVERLESS, WHITE SEAT, WALL SUPPORT, JR SMITH SERIES 0200.	#1,4,5,13	
L-1	AMERICAN STANDARD "WASHROOM" MODEL # 6590 001	LAVATORY: ACCESSIBLE WALL HUNG, 4" SPACED FAUCET STRAINER, VITREOUS CHINA, FRONT OVERFLOW.	SLOAN MODEL #EAF-100-HL-H&CW-CP-05GPM-AER-IR-16-FCT SENSOR FAUCET CHROME PLATED GRID STRAINER, PROVIDE JR SMITH SERIES 700 CONCEALED SUPPORT. TRUBERO MODEL #2010ASL1 LAVSHIELD.	#1,2,3,4,10	WS-1	BRADLEY "SENTRY" MODEL # S4200S-ASB14	CIRCULAR WASH STATION: STANDARD, VANDAL PROOF, FLOOR MOUNTED CIRCULAR BOWL, TYPE 304 SST, 5 STATIONS, 0.5 GPM PER STATION.	FURNISH WITH STAINLESS STEEL COVER ATTACHED TO DRAIN BODY. PROVIDE AIR ADMITTANCE VALVE.	#3,4	
L-2	BRADLEY MODEL #LVRD-2	LAVATORY: ACCESSIBLE TWO STATIONS 30" ON CENTER, QUARTZ SURFACE, VANDAL RESISTANT.	FURNISH WITH IR-DCG ELECTRONIC FAUCET W/ 4 BATTERIES, STAINLESS STEEL ACCESS PANEL.	#3,4,7						

REMARKS:  
1. COLOR SHALL BE WHITE.  
2. INSTALL TRUBERO INC. MODEL #102, HAND LAV-GUARD PROTECTOR ON THE HOT, COLD, AND DRAIN PIPING UNDER FIXTURE.  
3. FIXTURES AND TRIM AS NOTED SHALL BE "ACCESSIBLE" AND SHALL BE INSTALLED TO ADA / ANSI A117 AND FEDERAL 504 REQUIREMENTS.  
4. PROVIDE ISOLATION VALVES AT THE PIPE CONNECTIONS.  
5. PROVIDE WATER HAMMER ARRESTORS AT THE PIPE CONNECTIONS. LOCATE IN AN ACCESSIBLE LOCATION.  
6. PROVIDE SINK WITH REAR OFFSET DRAIN TO LEFT OR RIGHT SIDE FOR ADA COMPLIANCE, ANSI A117 AND FEDERAL 504 REQUIREMENTS SEE ARCHITECTURAL DRAWINGS FOR DRAIN LOCATIONS.  
7. COLOR AS SELECTED BY ARCHITECT. PROVIDE SAMPLES.  
8. RECESS UNIT IN CONCRETE SLAB TO MAXIMUM OF 1/2" HIGH THRESHOLD.  
9. PROVIDE TEPID WATER SUPPLY TO EMERGENCY FIXTURE.  
10. PLUMBING CONTRACTOR SHALL FURNISH & INSTALL H&CW SUPPLIES WITH SHUT OFF VALVES, DRAIN AND VENT PIPING AT FIXTURE.  
11. FURNISH FAUCET WITH MIXING VALVE. INSTALL ALONG WALL BELOW FIXTURE.  
12. PROVIDE WITH FIAT MODEL #830AA SERVICE FAUCET WITH VACUUM BREAKER, MODEL #1453-BB 16 GAUGE STAINLESS STEEL STRAINER, MODEL #1239-BB ALUMINUM BUMPER GUARD PLATE, MODEL #MSG-3636 WALL GUARD, MODEL #898-CC MOP HANGER, FOR CALKED LEAD CONNECTION NO LESS THAN 1" DEEP FROM DRAIN TO A 3" WASTE PIPE.  
13. SENSOR SHALL BE ADJUSTABLE. PROVIDE WITH SOLENOID VALVE, CHROME PLATED WALL PLATE AND MODEL EL-151 TRANSFORMER (120 VAC/24 VAC) SENSOR SHALL BE ADJUSTABLE. PROVIDE WITH FILTERED SOLENOID VALVE, CONTROL MODULE AND MODEL EL-208 TRANSFORMER (120 VAC/24 VAC). REFER TO DETAIL #95E-1-1 FOR ADDITIONAL INFO.  
14. FIXTURE U-1 SHALL BE ACCESSIBLE. U-2 SHALL BE MOUNTED AT A STANDARD HEIGHT. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.  
15. FURNISH TERRAZO BASE/RECEPTOR WITH 2" DRAIN AND STRAINER. ZURN MODEL #2156 OR APPROVED EQUAL.

100% CONSTRUCTION DOCUMENTS

drawing title  
**PLUMBING SCHEDULES**

REVISIONS

mark	date	description
1	07/23/2019	ADDENDUM NO. 1
2	07/30/2019	ADDENDUM NO. 2

drawing prepared by  
**Consulting Engineering Services, Inc.**  
811 Middle St., Middletown, CT 06457

date  
05/24/2019

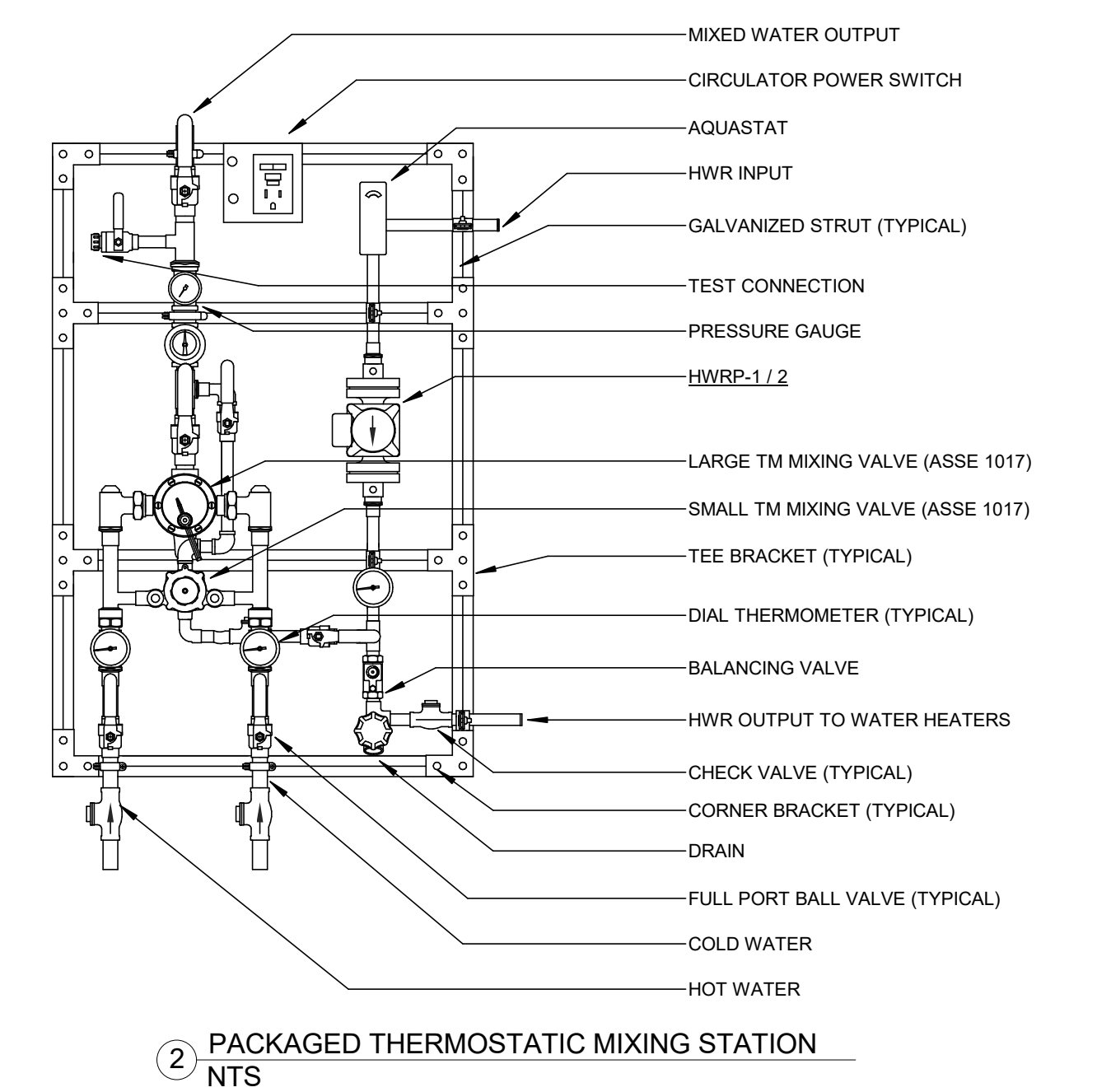
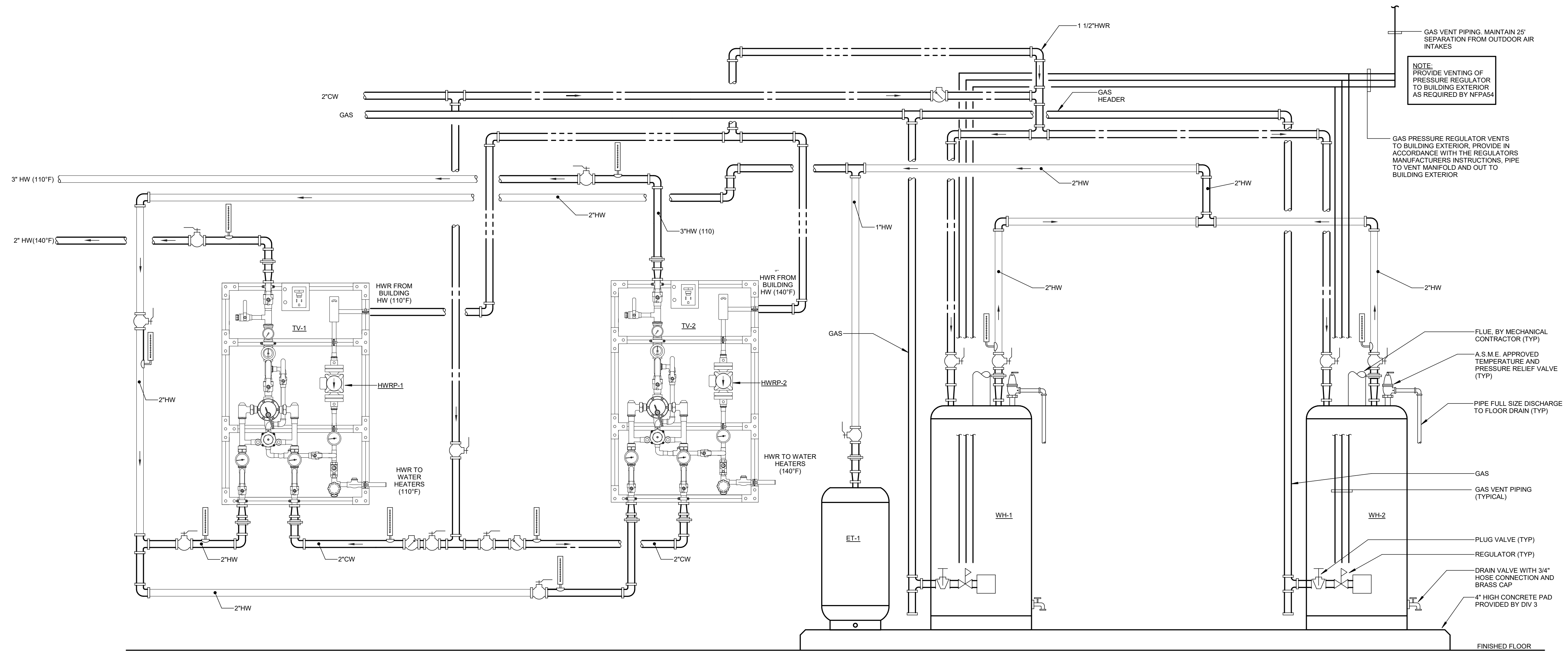
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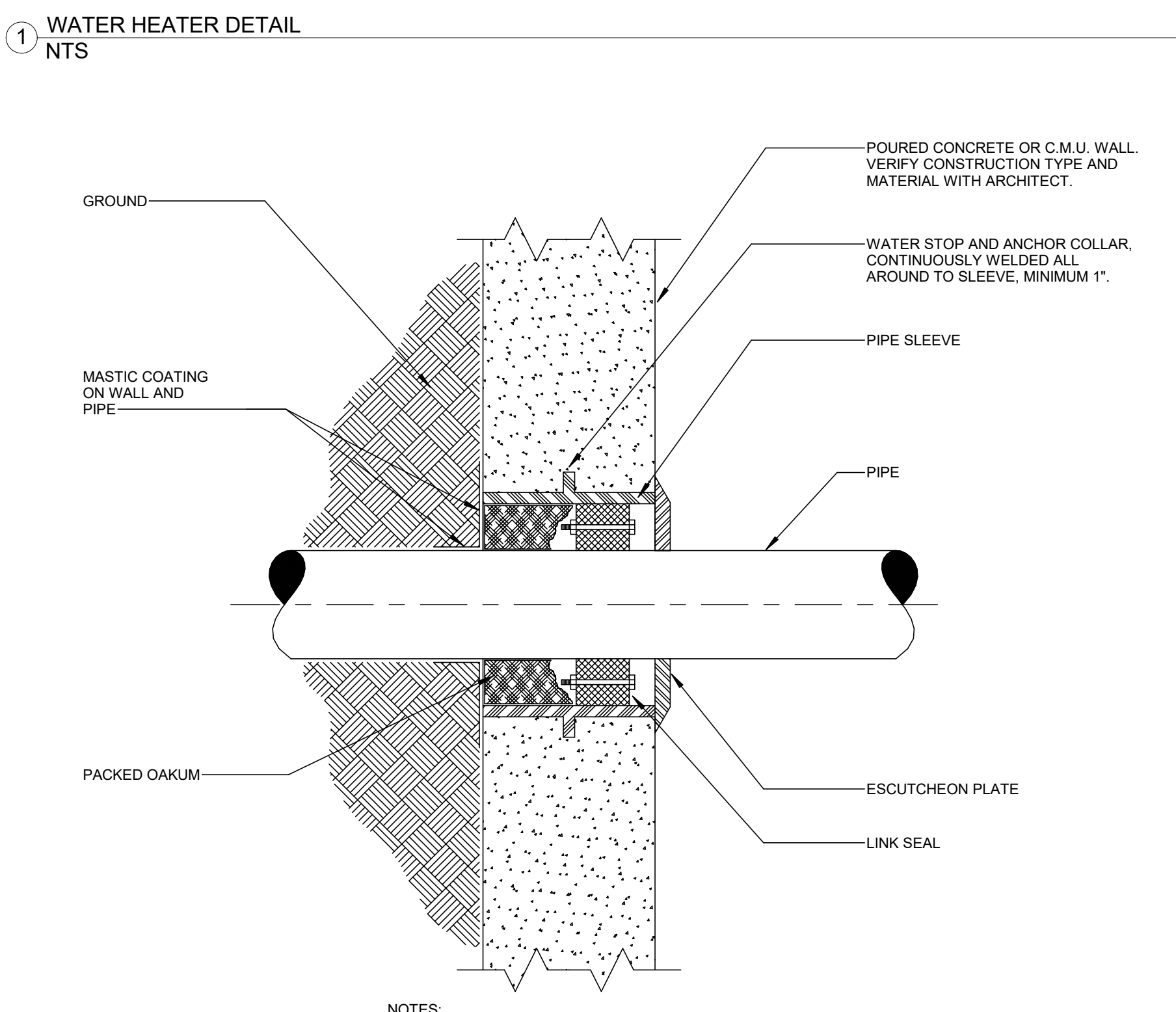
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project  
**ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL**  
600 Orange Avenue Middletown, CT 06461

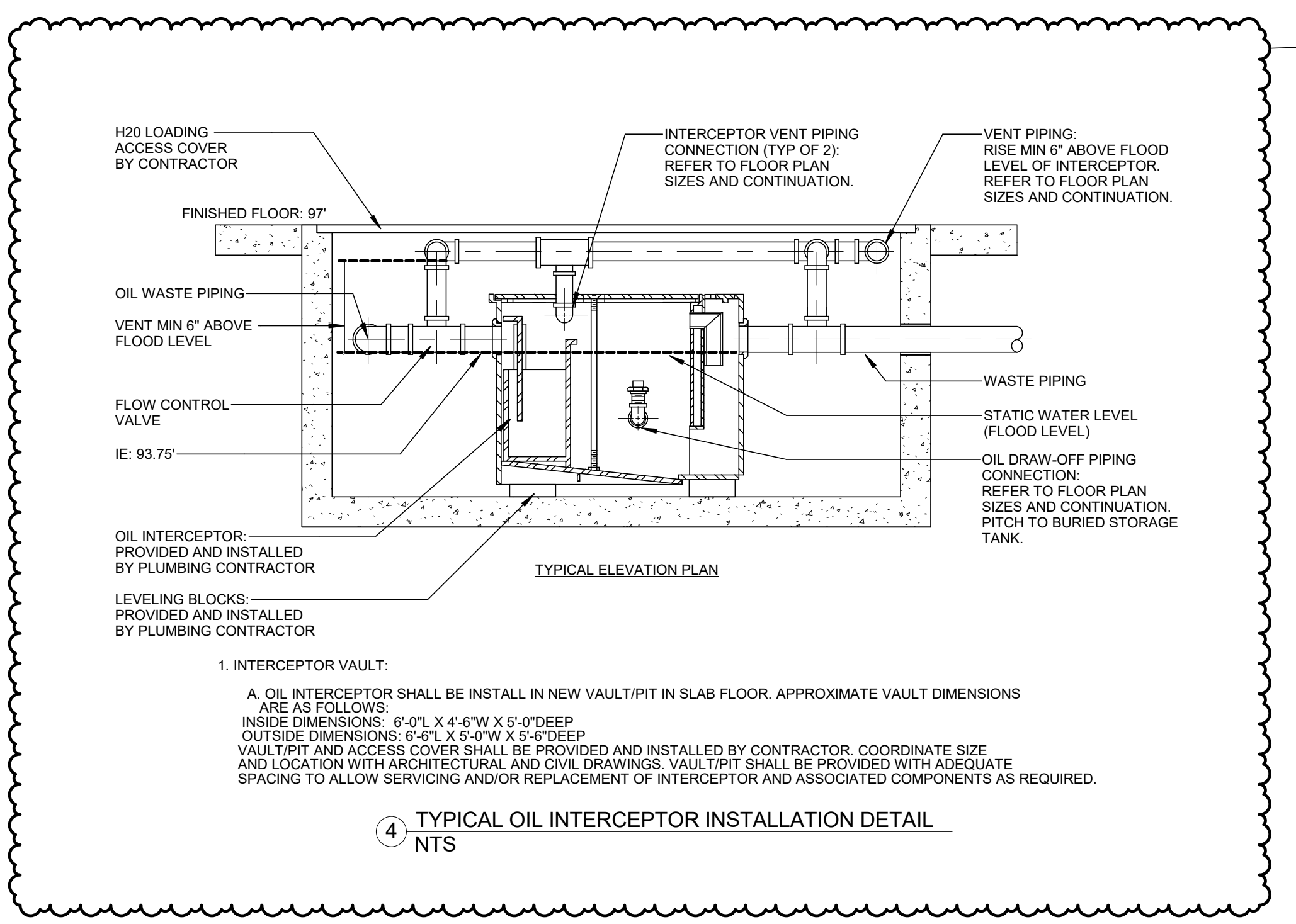
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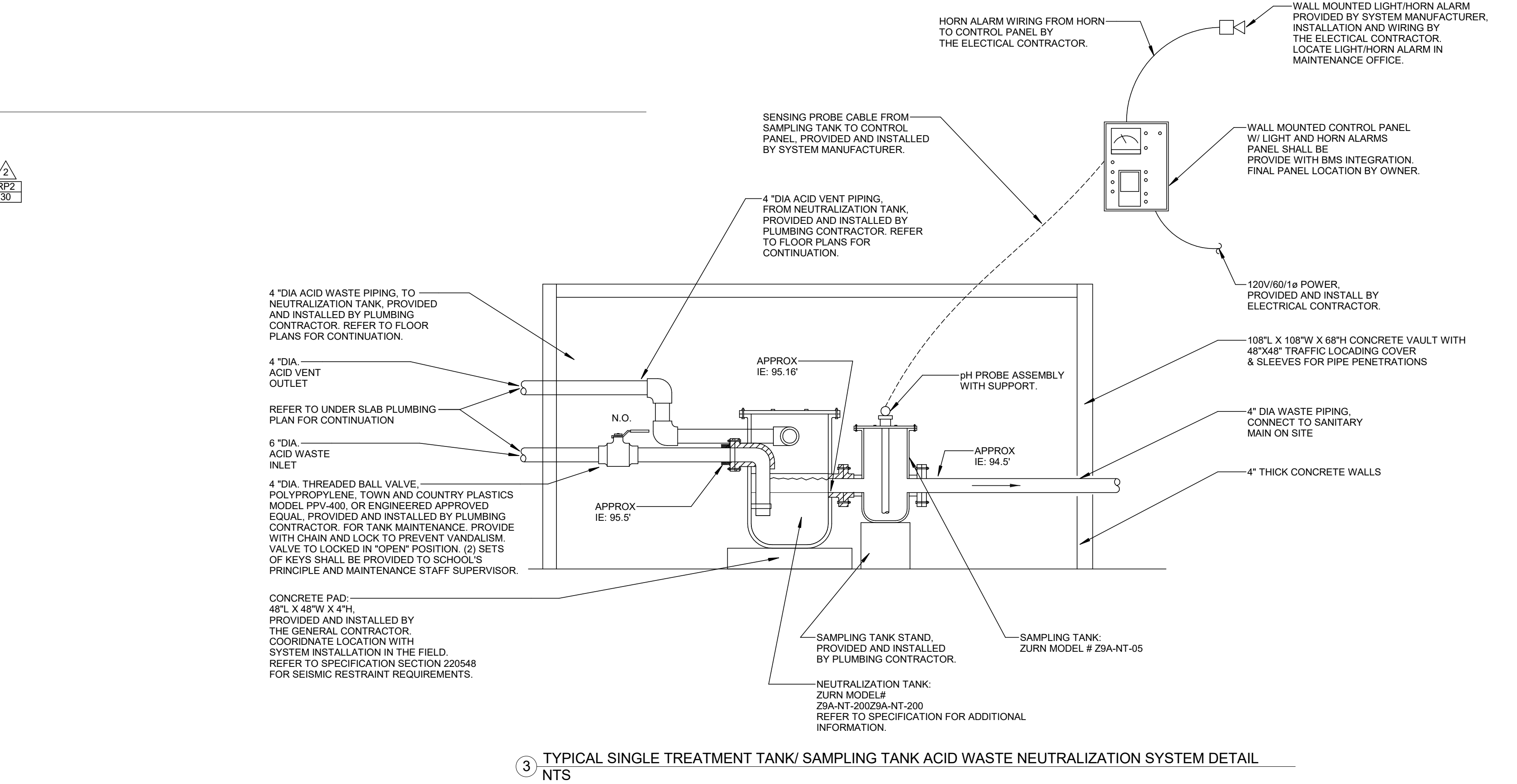
**GENERAL NOTE:**  
 1. CONTRACTOR MUST COORDINATE HOT WATER RECIRCULATION PIPING INSTALLATION PER THERMOSTATIC MIXING VALVE MANUFACTURERS INSTALLATION INSTRUCTION. HWR PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.  
 2. CONTRACTOR MUST COORDINATE EXPANSION TANK PIPING INSTALLATION PER EXPANSION TANK MANUFACTURERS INSTALLATION INSTRUCTION. EXPANSION TANK PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.



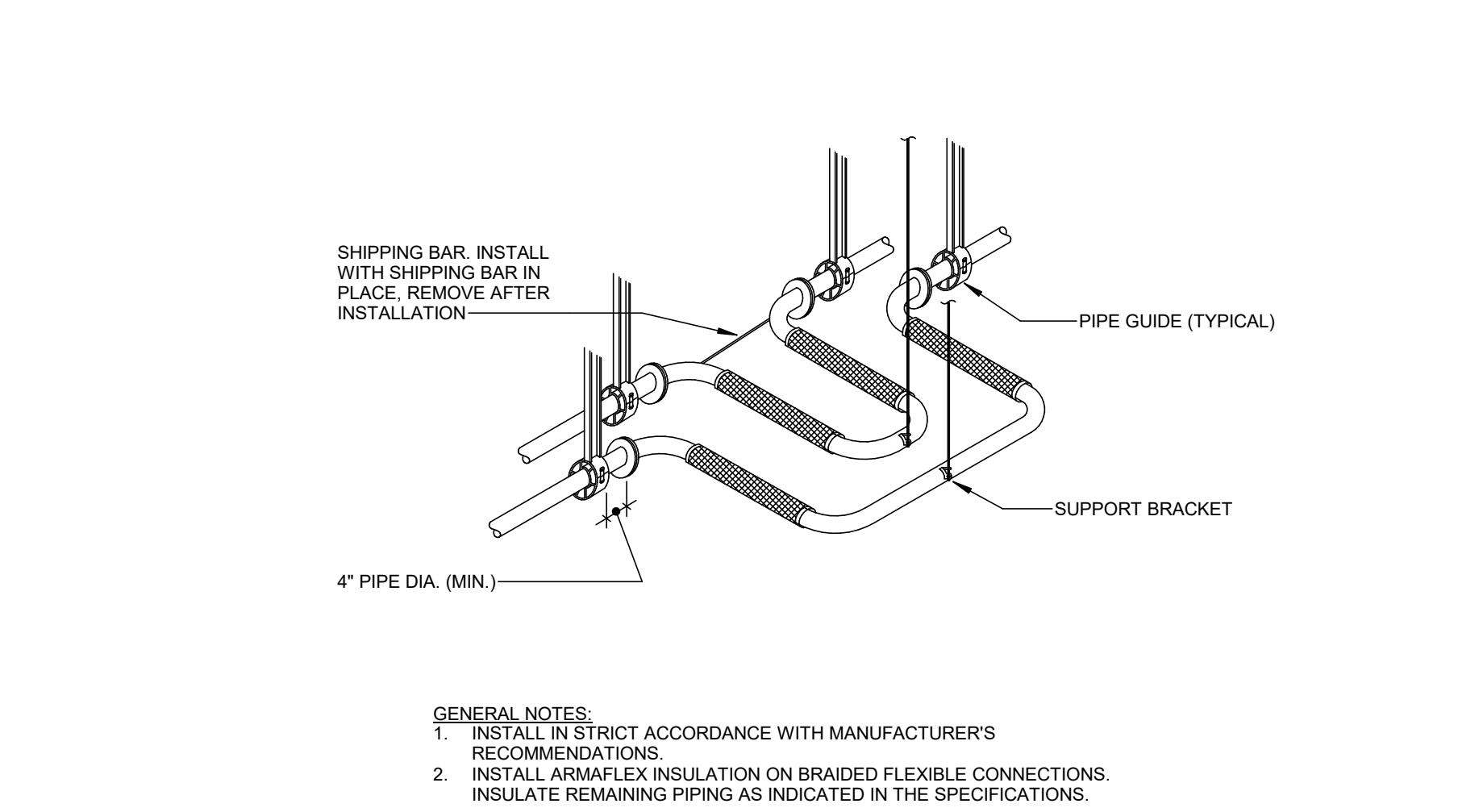
**1 WATER HEATER DETAIL**  
NTS



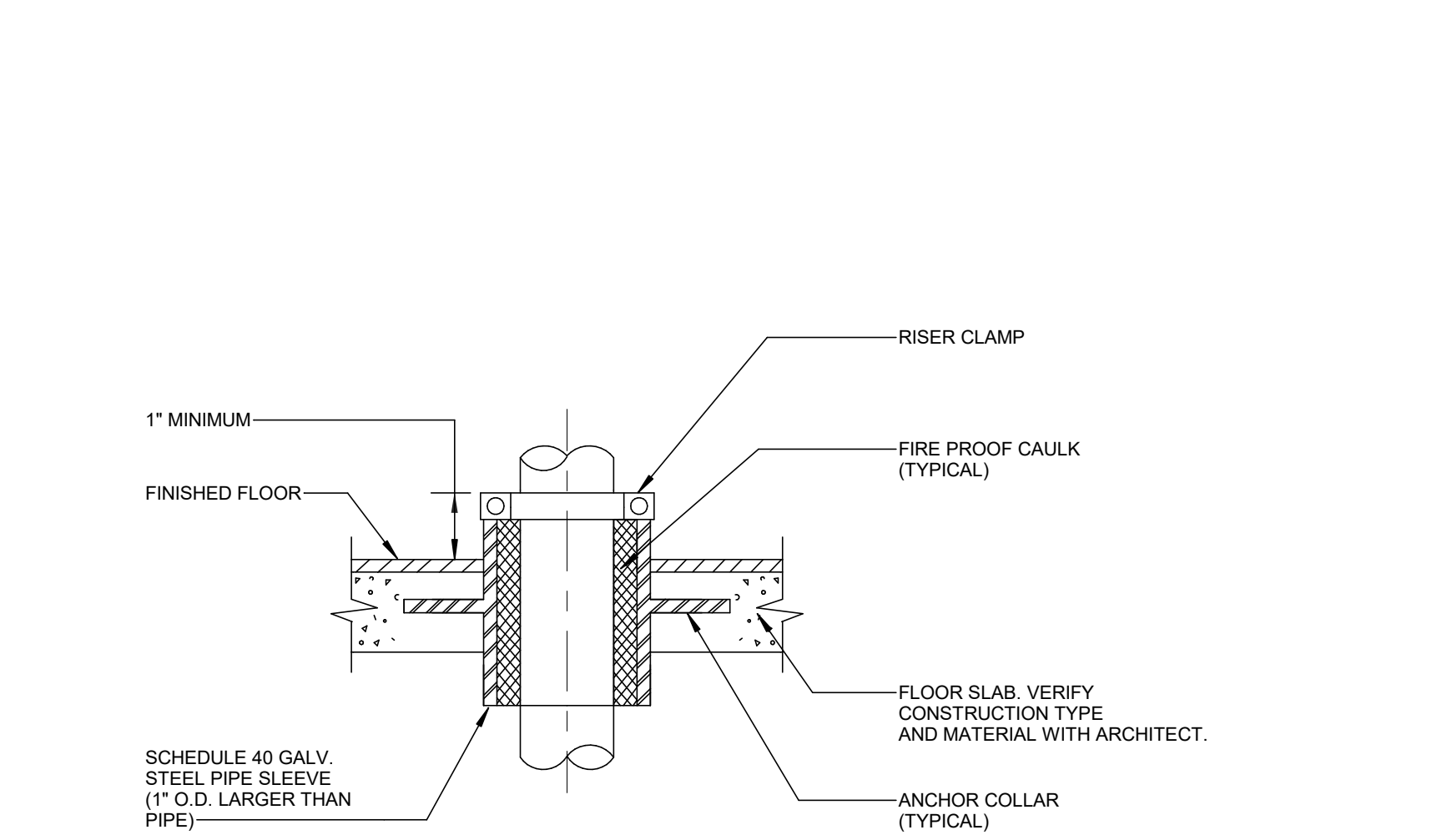
**4 TYPICAL OIL INTERCEPTOR INSTALLATION DETAIL**  
NTS



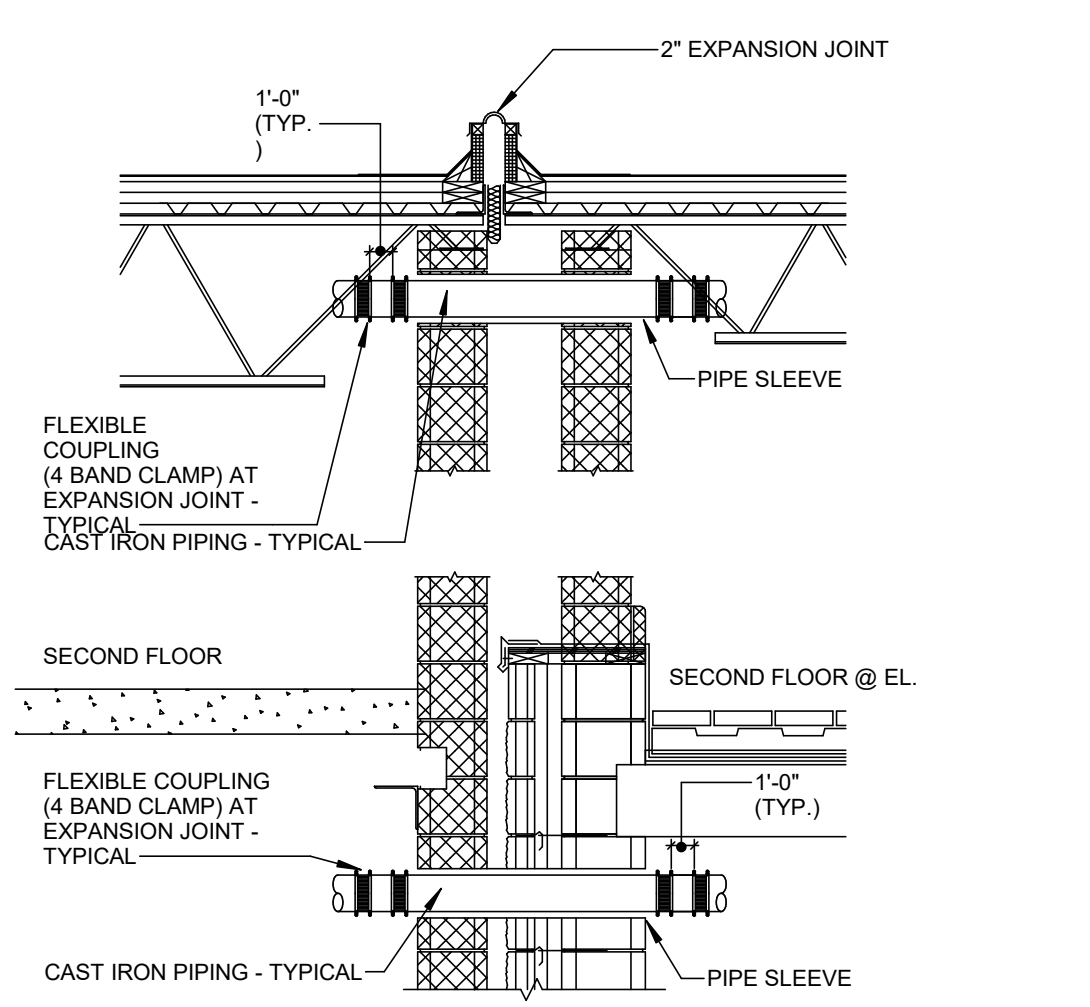
**3 TYPICAL SINGLE TREATMENT TANK/SAMPLING TANK ACID WASTE NEUTRALIZATION SYSTEM DETAIL**  
NTS



**6 TYPICAL SEISMIC SEPARATION JOINT PIPING DETAIL (COPPER PIPING)**  
NTS



**7 TYPICAL PIPE SLEEVE PENETRATION OF FLOOR INSTALLATION DETAIL**  
NTS



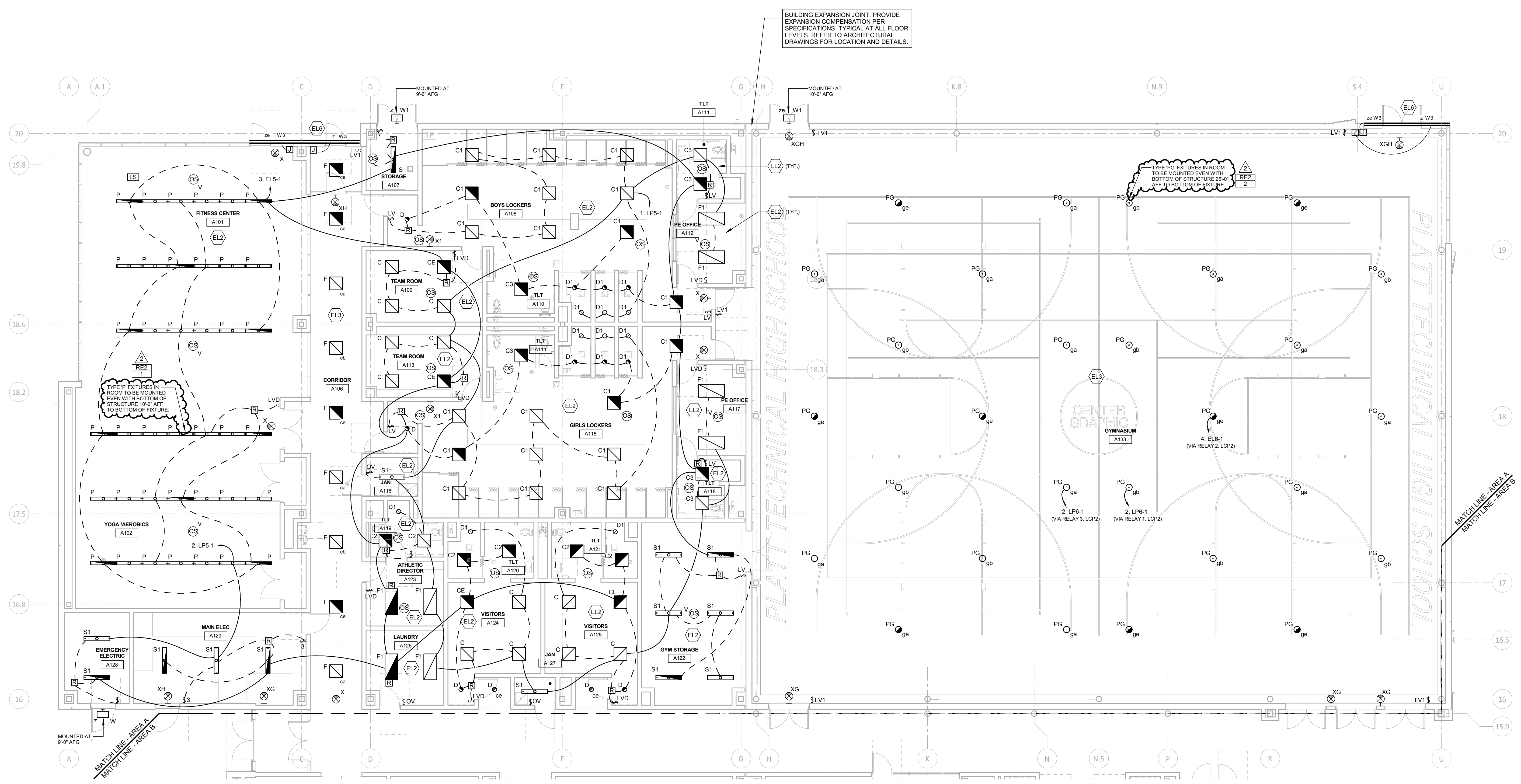
**8 TYPICAL EXPANSION JOINT PIPING DETAIL (CAST IRON PIPING)**  
NTS

100% CONSTRUCTION DOCUMENTS			drawing title	
PLUMBING DETAILS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title			date	
PLUMBING DETAILS			05/24/2019	
scale			scale	
NTS			NTS	
drawn by			msr	
approved by			jnc	
drawing no.			P4-1-2	
project			ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL	
CAD no.			DCS project no. 01-07-075 CM-R	
OSCRG project no.			900-0013	
drawing title			date	
PLUMBING DETAILS			07/30/2019	
description			ADDENDUM NO. 2	
mark			description	
2			07/30/2019	
ADDENDUM NO. 2				
drawing title			date	
PLUMBING DETAILS			05/24/2019	
scale			scale	
NTS			NTS	
drawn by			msr	
approved by			jnc	
drawing no.			P4-1-2	
project			ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL	
CAD no.			DCS project no. 01-07-075 CM-R	
OSCRG project no.			900-0013	

NOTE: INVERT ELEVATIONS NOTED ON DETAIL ARE A GUIDE AND SUBJECT TO CHANGE. PENDING EQUIPMENT SUBMITTALS. CONTRACTOR SHALL ADJUST VAULT DEPTH AS REQUIRED TO MAINTAIN INVERT ELEVATION OF ACID WASTE PIPING LEAVING BUILDING.

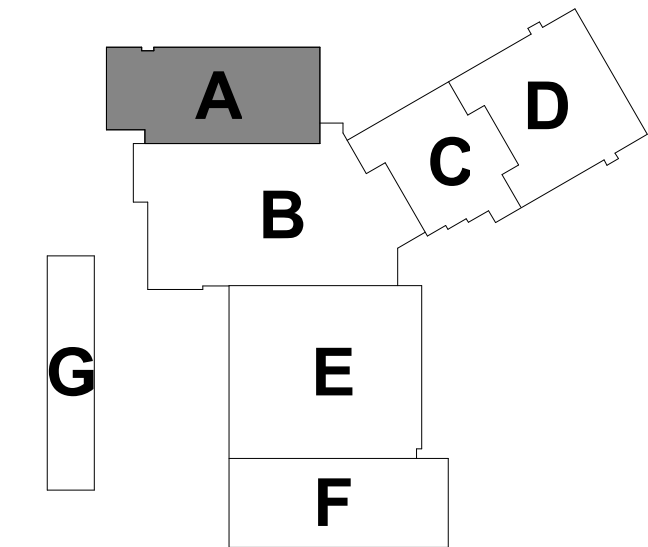
ELECTRICAL LIGHTING KEY NOTES	
(EL1)	CLASSROOM LIGHTING CONTROL PANEL - REFER TO DETAILS ON DRAWING E6-1.4 FOR WIRING, LUL 504 EMERGENCY BYPASS RELAYS, AND CONTROL DEVICES
(EL2)	REFER TO DETAILS ON DRAWING E6-1.3 FOR TYPICAL STANDALONE PRIVATE OFFICE, CONFERENCE ROOM, STORAGE ROOM, REST ROOMS, AND SMALL INTERIOR ROOM
(EL3)	REFER TO DETAILS AND SCHEDULES ON DRAWINGS E6-1.5 AND E6-1.9 FOR CORRIDOR, LOBBY, TRADE SHOP, OPEN SPACE AND EXTERIOR EGRESS LIGHTING CONTROL
(EL4)	UP/DOWN TO NEXT NORMAL LIGHTING FIXTURE IN STAIRWELL
(EL5)	UP/DOWN TO NEXT EMERGENCY LIGHTING FIXTURE IN STAIRWELL
(EL6)	SEE ARCHITECTURAL ENTRY SOFFIT DETAIL FOR MOUNTING. (2) TYPE 'W3' FIXTURES RUN IN PARALLEL

- GENERAL NOTES - ELECTRICAL LIGHTING**
- ALL CIRCUITS SHALL BE 20A, 120V, 34°C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL UNLESS NOTED OTHERWISE.
  - ALL BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 20A, 120V, 34°C. UNLESS NOTED OTHERWISE.
  - ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
  - REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
  - REFER TO DRAWING E5-1.1 FOR ELECTRICAL SYMBOLS, LEGENDS, NOTES, AND ABBREVIATIONS.
  - REFER TO SPECIFICATION SECTION 26 5100, APPENDIX A FOR THE LIGHT FIXTURE SCHEDULE.
  - REFER TO DRAWINGS E6-1.3, E6-1.4, AND E6-1.5 FOR LIGHTING CONTROL DETAILS.
  - EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
  - PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
  - MC CABLE WHIPS SHALL BE ALLOWED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES ABOVE ACCESSIBLE CEILING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING USE OF MC CABLE.
  - REFER TO LIGHT FIXTURE LABELING SCHEMATIC ON DRAWING E5-1.1 FOR LIGHT FIXTURE TYPE, LIGHTING CONTROL ZONE DESIGNATION AND ADDITIONAL BRANCH CIRCUIT AND CONTROL INFORMATION.
  - MINIMUM MOUNTING HEIGHT OF LIGHTING FIXTURES IN MECHANICAL/ELECTRICAL SPACES TO BE 8'-0" AFF. COORDINATE MOUNTING HEIGHTS WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT.
  - IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



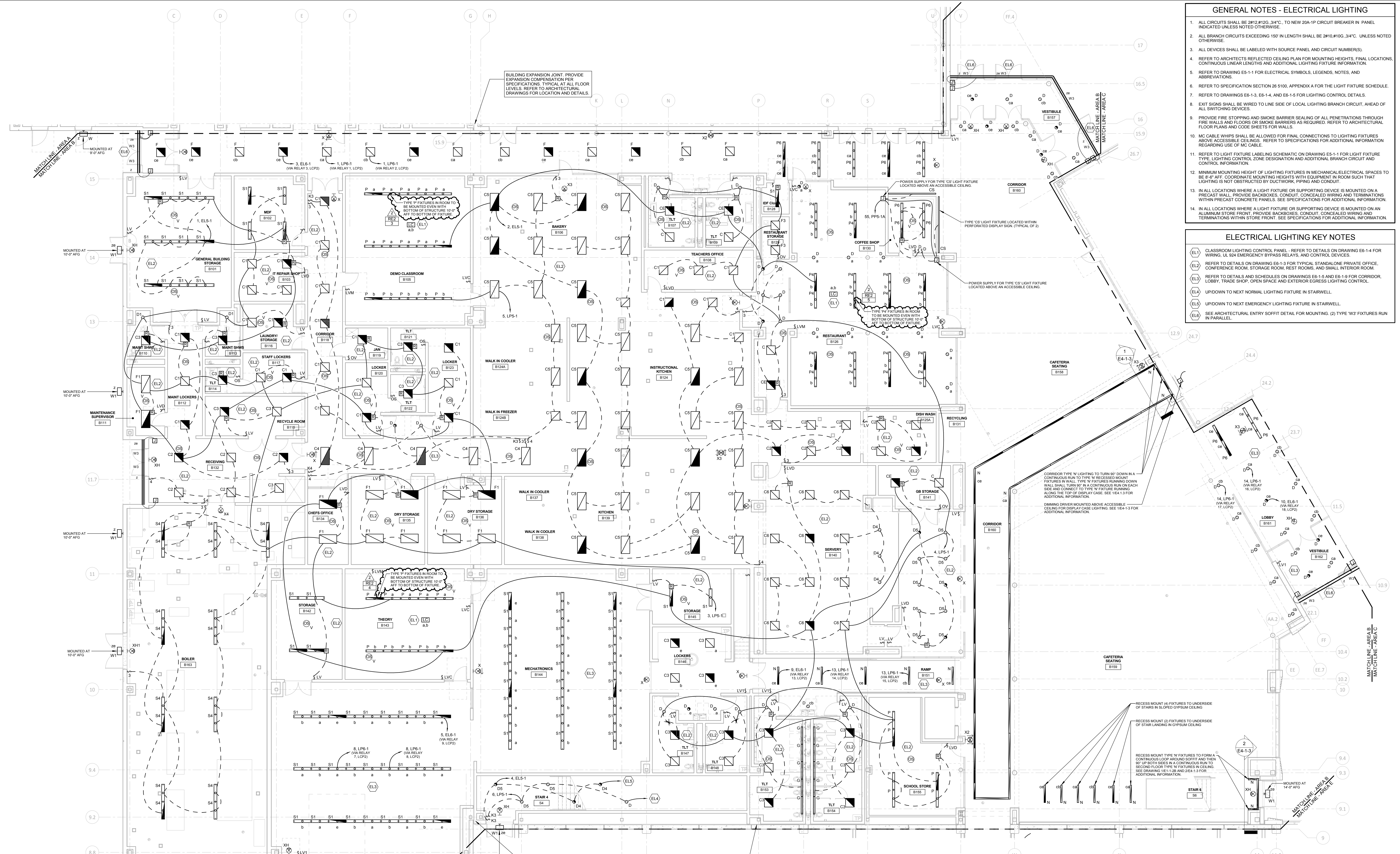
1 FIRST FLOOR LIGHTING PLAN - AREA A  
1/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS			
drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
FIRST FLOOR ELECTRICAL LIGHTING PLAN AREA A		drawing prepared by <b>Consulting Engineering Services, Inc.</b> 811 Middle St., Middletown, CT 06457	
date		date	
07/30/2019		05/24/2019	
description		scale	
ADDENDUM NO. 2		As Indicated	
project		drawn by	
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461		vsm	
approved by		approved by	
OSCGR project no. 990-0013		ese	
drawing no.		drawing no.	
E1-1-1A		E1-1-1A	

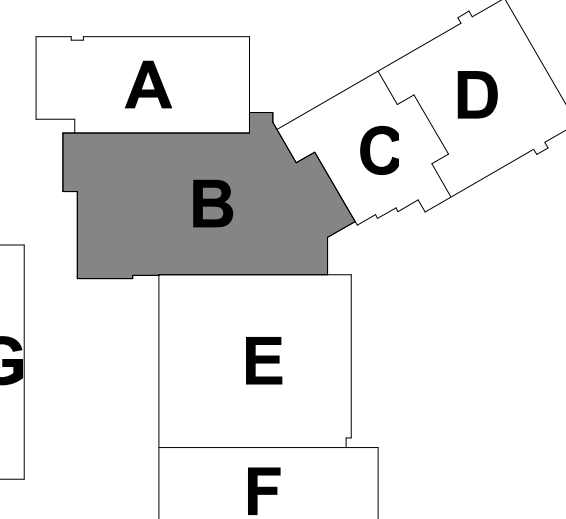


- ### GENERAL NOTES - ELECTRICAL LIGHTING
- ALL CIRCUITS SHALL BE 2012 #10, 34°C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
  - ALL BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10 #100, 34°C. UNLESS NOTED OTHERWISE.
  - ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
  - REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
  - REFER TO DRAWING E5-1.1 FOR ELECTRICAL SYMBOLS, LEGENDS, NOTES, AND ABBREVIATIONS.
  - REFER TO SPECIFICATION SECTION 26 5100, APPENDIX A FOR THE LIGHT FIXTURE SCHEDULE.
  - REFER TO DRAWINGS E6-1.3, E6-1.4, AND E6-1.5 FOR LIGHTING CONTROL DETAILS.
  - EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
  - PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
  - MC CABLE WHIPS SHALL BE ALLOWED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES ABOVE ACCESSIBLE CEILING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING USE OF MC CABLE.
  - REFER TO LIGHT FIXTURE LABELING SCHEMATIC ON DRAWING E5-1.1 FOR LIGHT FIXTURE TYPE, LIGHTING CONTROL, ZONE DESIGNATION AND ADDITIONAL BRANCH CIRCUIT AND CONTROL INFORMATION.
  - MINIMUM MOUNTING HEIGHT OF LIGHTING FIXTURES IN MECHANICAL/ELECTRICAL SPACES TO BE 8'-0" AFF. COORDINATE MOUNTING HEIGHTS WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT.
  - IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- ### ELECTRICAL LIGHTING KEY NOTES
- EL1 CLASSROOM LIGHTING CONTROL PANEL - REFER TO DETAILS ON DRAWING E6-1.4 FOR WIRING, UL 924 EMERGENCY BYPASS RELAYS, AND CONTROL DEVICES.
  - EL2 REFER TO DETAILS ON DRAWING E6-1.3 FOR TYPICAL STANDBY PRIVATE OFFICE, CONFERENCE ROOM, STORAGE ROOM, REST ROOMS, AND SMALL INTERIOR ROOM.
  - EL3 REFER TO DETAILS AND SCHEDULES ON DRAWINGS E6-1.5 AND E6-1.8 FOR CORRIDOR, LOBBY, TRADE SHOP, OPEN SPACE AND EXTERIOR EGRESS LIGHTING CONTROL.
  - EL4 UP/DOWN TO NEXT NORMAL LIGHTING FIXTURE IN STAIRWELL.
  - EL5 UP/DOWN TO NEXT EMERGENCY LIGHTING FIXTURE IN STAIRWELL.
  - SEE ARCHITECTURAL ENTRY SOFFIT DETAIL FOR MOUNTING. (2) TYPE W3 FIXTURES RUN IN PARALLEL.



1 FIRST FLOOR LIGHTING PLAN - AREA B  
1/8" = 1'-0"



100% CONSTRUCTION DOCUMENTS

drawing title  
FIRST FLOOR ELECTRICAL LIGHTING PLAN AREA B

REVISIONS	
mark	description
2	07/30/2019 ADDENDUM NO. 2

STATE OF CONNECTICUT  
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by  
**Consulting Engineering Services, Inc.**  
911 Middle St., Middletown, CT 06457

date  
05/24/2019

scale  
As Indicated

drawn by  
vsm

approved by  
esm

drawing no.  
E1-1-1B

project  
ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL  
600 Orange Avenue Middletown, CT 06461

CAD no. DCS project no. B1RT-076 C.M.R. OSCGR project no. 900-0013



**PENDANT FIXTURE MOUNTING HEIGHTS - FINISHED SPACES**

UNLESS OTHERWISE NOTED, PENDANT FIXTURE MOUNTING HEIGHTS IN FINISHED CLASSROOMS AND OFFICES SHALL BE AS FOLLOWS:

CEILING HEIGHT 9'-0" ..... 7'-6" BOTTOM OF FIXTURE  
 CEILING HEIGHT 9'-6" ..... 8'-0" BOTTOM OF FIXTURE  
 CEILING HEIGHT 10'-0" ..... 8'-6" BOTTOM OF FIXTURE  
 CEILING HEIGHT 11'-0" ..... 9'-0" BOTTOM OF FIXTURE  
 CEILING HEIGHT 12'-0" ..... 10'-0" BOTTOM OF FIXTURE  
 MINIMUM PENDANT LENGTH ..... 1'-0"

CONSULT WITH ARCHITECT AND ENGINEER FOR OTHER CEILING HEIGHTS.

**GENERAL NOTES - ELECTRICAL LIGHTING**

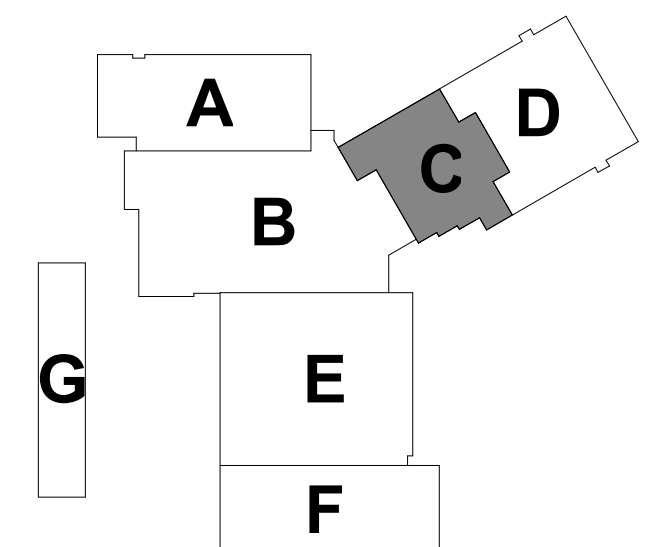
- ALL CIRCUITS SHALL BE 20A, 120V, 34°C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
- ALL BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10 #100, 34°C. UNLESS NOTED OTHERWISE.
- ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
- REFER TO DRAWING E5-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, NOTES, AND ABBREVIATIONS.
- REFER TO SPECIFICATION SECTION 26 5100, APPENDIX A FOR THE LIGHT FIXTURE SCHEDULE.
- REFER TO DRAWINGS E6-1-3, E6-1-4, AND E6-1-5 FOR LIGHTING CONTROL DETAILS.
- EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
- PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
- MC CABLE WHIPS SHALL BE ALLOWED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES ABOVE ACCESSIBLE CEILING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING USE OF MC CABLE.
- REFER TO LIGHT FIXTURE LABELING SCHEMATIC ON DRAWING E5-1-1 FOR LIGHT FIXTURE TYPE, LIGHTING CONTROL ZONE DESIGNATION AND ADDITIONAL BRANCH CIRCUIT AND CONTROL INFORMATION.
- MINIMUM MOUNTING HEIGHT OF LIGHTING FIXTURES IN MECHANICAL/ELECTRICAL SPACES TO BE 8'-6" AFF. COORDINATE MOUNTING HEIGHTS WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**ELECTRICAL LIGHTING KEY NOTES**

- (EL1) CLASSROOM LIGHTING CONTROL PANEL - REFER TO DETAILS ON DRAWING E6-1-4 FOR WIRING, UL 924 EMERGENCY BYPASS RELAYS, AND CONTROL DEVICES.
- (EL2) REFER TO DETAILS ON DRAWING E6-1-3 FOR TYPICAL STANDALONE PRIVATE OFFICE, CONFERENCE ROOM, STORAGE ROOM, REST ROOMS, AND SMALL INTERIOR ROOM.
- (EL3) REFER TO DETAILS AND SCHEDULES ON DRAWINGS E6-1-5 AND E6-1-9 FOR CORRIDOR, LOBBY, TRADE SHOP, OPEN SPACE AND EXTERIOR EGRESS LIGHTING CONTROL.
- (EL4) UP/DOWN TO NEXT NORMAL LIGHTING FIXTURE IN STAIRWELL.
- (EL5) UP/DOWN TO NEXT EMERGENCY LIGHTING FIXTURE IN STAIRWELL.
- (EL6) SEE ARCHITECTURAL ENTRY SOFFIT DETAIL FOR MOUNTING. (2) TYPE 'W3' FIXTURES RUN IN PARALLEL.



1 FIRST FLOOR LIGHTING PLAN - AREA C  
 1/8" = 1'-0"



100% CONSTRUCTION DOCUMENTS		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title FIRST FLOOR ELECTRICAL LIGHTING PLAN AREA C		drawing prepared by <b>Consulting Engineering Services, Inc.</b> 911 Middle St., Middletown, CT 06457	
date 05/24/2019		date 05/24/2019	
scale As Indicated		scale As Indicated	
drawn by vsm		drawn by vsm	
project ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461		approved by rsm	
drawing no. E1-1-1C		drawing no. E1-1-1C	
CAD no.	DCS project no. BLRT-076 CM-R	OSCGR project no. 900-0013	

**PENDANT FIXTURE MOUNTING HEIGHTS - FINISHED SPACES**

UNLESS OTHERWISE NOTED, PENDANT FIXTURE MOUNTING HEIGHTS IN FINISHED CLASSROOMS AND OFFICES SHALL BE AS FOLLOWS:

CEILING HEIGHT 9'-0" ..... 7'-6" BOTTOM OF FIXTURE  
 CEILING HEIGHT 9'-6" ..... 8'-0" BOTTOM OF FIXTURE  
 CEILING HEIGHT 10'-0" ..... 8'-6" BOTTOM OF FIXTURE  
 CEILING HEIGHT 11'-0" ..... 9'-0" BOTTOM OF FIXTURE  
 CEILING HEIGHT 12'-0" ..... 10'-0" BOTTOM OF FIXTURE  
 MINIMUM PENDANT LENGTH ..... 1'-6"

CONSULT WITH ARCHITECT AND ENGINEER FOR OTHER CEILING HEIGHTS.

**GENERAL NOTES - ELECTRICAL LIGHTING**

- ALL CIRCUITS SHALL BE 20A, 120V, 34°C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
- ALL BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 20A, 120V, 34°C. UNLESS NOTED OTHERWISE.
- ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
- REFER TO DRAWING E5-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, NOTES, AND ABBREVIATIONS.
- REFER TO SPECIFICATION SECTION 26 5100, APPENDIX A FOR THE LIGHT FIXTURE SCHEDULE.
- REFER TO DRAWINGS E6-1-3, E6-1-4, AND E6-1-5 FOR LIGHTING CONTROL DETAILS.
- EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
- PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
- MC CABLE WHIPS SHALL BE ALLOWED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES ABOVE ACCESSIBLE CEILING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING USE OF MC CABLE.
- REFER TO LIGHT FIXTURE LABELING SCHEMATIC ON DRAWING E5-1-1 FOR LIGHT FIXTURE TYPE, LIGHTING CONTROL, ZONE DESIGNATION AND ADDITIONAL BRANCH CIRCUIT AND CONTROL INFORMATION.
- MINIMUM MOUNTING HEIGHT OF LIGHTING FIXTURES IN MECHANICAL/ELECTRICAL SPACES TO BE 8'-6" AFF. COORDINATE MOUNTING HEIGHTS WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

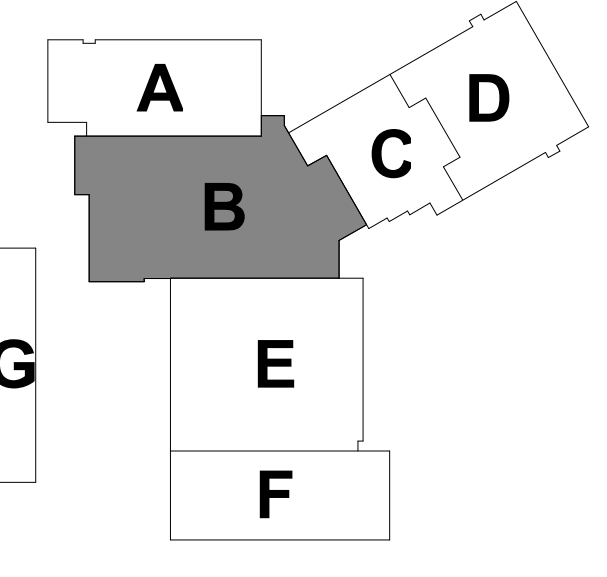
**ELECTRICAL LIGHTING KEY NOTES**

- (EL1) CLASSROOM LIGHTING CONTROL PANEL - REFER TO DETAILS ON DRAWING E6-1-4 FOR WIRING, UL 924 EMERGENCY BYPASS RELAYS, AND CONTROL DEVICES.
- (EL2) REFER TO DETAILS ON DRAWING E6-1-3 FOR TYPICAL STANDALONE PRIVATE OFFICE, CONFERENCE ROOM, STORAGE ROOM, REST ROOMS, AND SMALL INTERIOR ROOM.
- (EL3) REFER TO DETAILS AND SCHEDULES ON DRAWINGS E6-1-5 AND E6-1-9 FOR CORRIDOR, LOBBY, TRADE SHOP, OPEN SPACE AND EXTERIOR EGRESS LIGHTING CONTROL.
- (EL4) UP/DOWN TO NEXT NORMAL LIGHTING FIXTURE IN STAIRWELL.
- (EL5) UP/DOWN TO NEXT EMERGENCY LIGHTING FIXTURE IN STAIRWELL.
- (EL6) SEE ARCHITECTURAL ENTRY SOFFIT DETAIL FOR MOUNTING. (2) TYPE 'Y' FIXTURES RUN IN PARALLEL.

3 CAFETERIA CEILING WASH LIGHTS  
1/4" = 1'-0"

2 CLERESTORY ELECTRICAL LIGHTING PLAN - PARTIAL AREA B AND C  
1/8" = 1'-0"

1 SECOND FLOOR LIGHTING PLAN - AREA B  
1/8" = 1'-0"



**100% CONSTRUCTION DOCUMENTS**

drawing title		SECOND FLOOR ELECTRICAL LIGHTING PLAN AREA B	
drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing prepared by		Consulting Engineering Services, Inc.	
date		05/24/2019	
scale		As Indicated	
drawn by		vsm	
approved by		esm	
drawing no.		E1-1-2B	
project		ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL	
CAD no.		DCS project no. BIRT-076 CM-R	
OSCRG project no.		900-0113	

**PENDANT FIXTURE MOUNTING HEIGHTS - FINISHED SPACES**

UNLESS OTHERWISE NOTED, PENDANT FIXTURE MOUNTING HEIGHTS IN FINISHED CLASSROOMS AND OFFICES SHALL BE AS FOLLOWS:

CEILING HEIGHT 9'-0"	7'-0" BOTTOM OF FIXTURE
CEILING HEIGHT 9'-6"	8'-0" BOTTOM OF FIXTURE
CEILING HEIGHT 10'-0"	8'-6" BOTTOM OF FIXTURE
CEILING HEIGHT 11'-0"	9'-6" BOTTOM OF FIXTURE
CEILING HEIGHT 12'-0"	10'-0" BOTTOM OF FIXTURE
MINIMUM PENDANT LENGTH	1'-0"

CONSULT WITH ARCHITECT AND ENGINEER FOR OTHER CEILING HEIGHTS.

**GENERAL NOTES - ELECTRICAL LIGHTING**

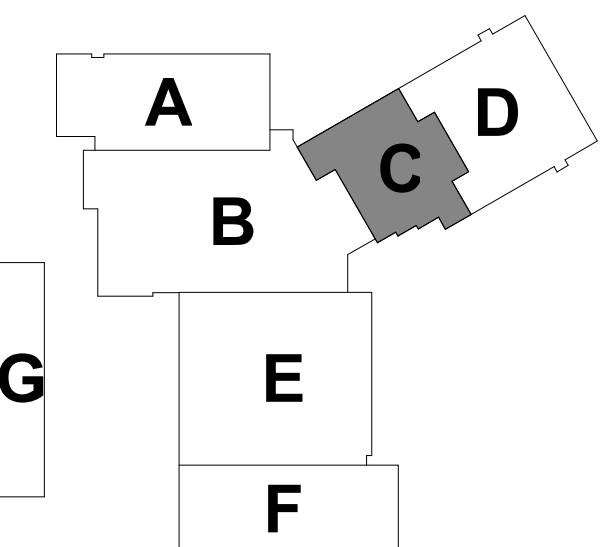
- ALL CIRCUITS SHALL BE 20A, 120V, 3-Ø, TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
- ALL BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10 #100, 3/4"Ø. UNLESS NOTED OTHERWISE.
- ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
- REFER TO DRAWING E5-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, NOTES, AND ABBREVIATIONS.
- REFER TO SPECIFICATION SECTION 26 5100, APPENDIX A FOR THE LIGHT FIXTURE SCHEDULE.
- REFER TO DRAWINGS E6-1-3, E6-1-4, AND E6-1-5 FOR LIGHTING CONTROL DETAILS.
- EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
- PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
- MC CABLE WHIPS SHALL BE ALLOWED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES ABOVE ACCESSIBLE CEILING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING USE OF MC CABLE.
- REFER TO LIGHT FIXTURE LABELING SCHEMATIC ON DRAWING E5-1-1 FOR LIGHT FIXTURE TYPE, LIGHTING CONTROL ZONE DESIGNATION AND ADDITIONAL BRANCH CIRCUIT AND CONTROL INFORMATION.
- MINIMUM MOUNTING HEIGHT OF LIGHTING FIXTURES IN MECHANICAL/ELECTRICAL SPACES TO BE 8'-0" AFF. COORDINATE MOUNTING HEIGHTS WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**ELECTRICAL LIGHTING KEY NOTES**

- (EL1) CLASSROOM LIGHTING CONTROL PANEL - REFER TO DETAILS ON DRAWING E6-1-4 FOR WIRING, UL 924 EMERGENCY BYPASS RELAYS, AND CONTROL DEVICES.
- (EL2) REFER TO DETAILS ON DRAWING E6-1-3 FOR TYPICAL STANDALONE PRIVATE OFFICE, CONFERENCE ROOM, STORAGE ROOM, REST ROOMS, AND SMALL INTERIOR ROOM.
- (EL3) REFER TO DETAILS AND SCHEDULES ON DRAWINGS E6-1-5 AND E6-1-8 FOR CORRIDOR, LOBBY, TRIDGE SHOP, OPEN SPACE, AND EXTERIOR EGRESS LIGHTING CONTROL.
- (EL4) UP/DOWN TO NEXT NORMAL LIGHTING FIXTURE IN STAIRWELL.
- (EL5) UP/DOWN TO NEXT EMERGENCY LIGHTING FIXTURE IN STAIRWELL.
- (EL6) SEE ARCHITECTURAL ENTRY SOFFIT DETAIL FOR MOUNTING. (2) TYPE W3 FIXTURES RUN IN PARALLEL.



1 SECOND FLOOR LIGHTING PLAN - AREA C  
1/8" = 1'-0"



100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title SECOND FLOOR ELECTRICAL LIGHTING PLAN AREA C			drawing prepared by <b>Consulting Engineering Services, Inc.</b> 911 Middle St., Middletown, CT 06457	
date 05/24/2019			date 05/24/2019	
scale As Indicated			scale As Indicated	
drawn by vsm			drawn by vsm	
approved by rsm			approved by rsm	
drawing no. E1-1-2C			drawing no. E1-1-2C	
project ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461			project no. OSCGR project no. BLRT-076 CM-R	
CAD no.			OSCGR project no. 900-0013	
revisions			revisions	
mark	date	description	mark	date
2	07/30/2019	ADDENDUM NO. 2		

**PENDANT FIXTURE MOUNTING HEIGHTS - FINISHED SPACES**

UNLESS OTHERWISE NOTED, PENDANT FIXTURE MOUNTING HEIGHTS IN FINISHED CLASSROOMS AND OFFICES SHALL BE AS FOLLOWS:

CEILING HEIGHT 9'-0"	7'-6" BOTTOM OF FIXTURE
CEILING HEIGHT 9'-6"	8'-0" BOTTOM OF FIXTURE
CEILING HEIGHT 10'-0"	8'-6" BOTTOM OF FIXTURE
CEILING HEIGHT 11'-0"	9'-0" BOTTOM OF FIXTURE
CEILING HEIGHT 12'-0"	10'-0" BOTTOM OF FIXTURE
MINIMUM PENDANT LENGTH	1'-6"

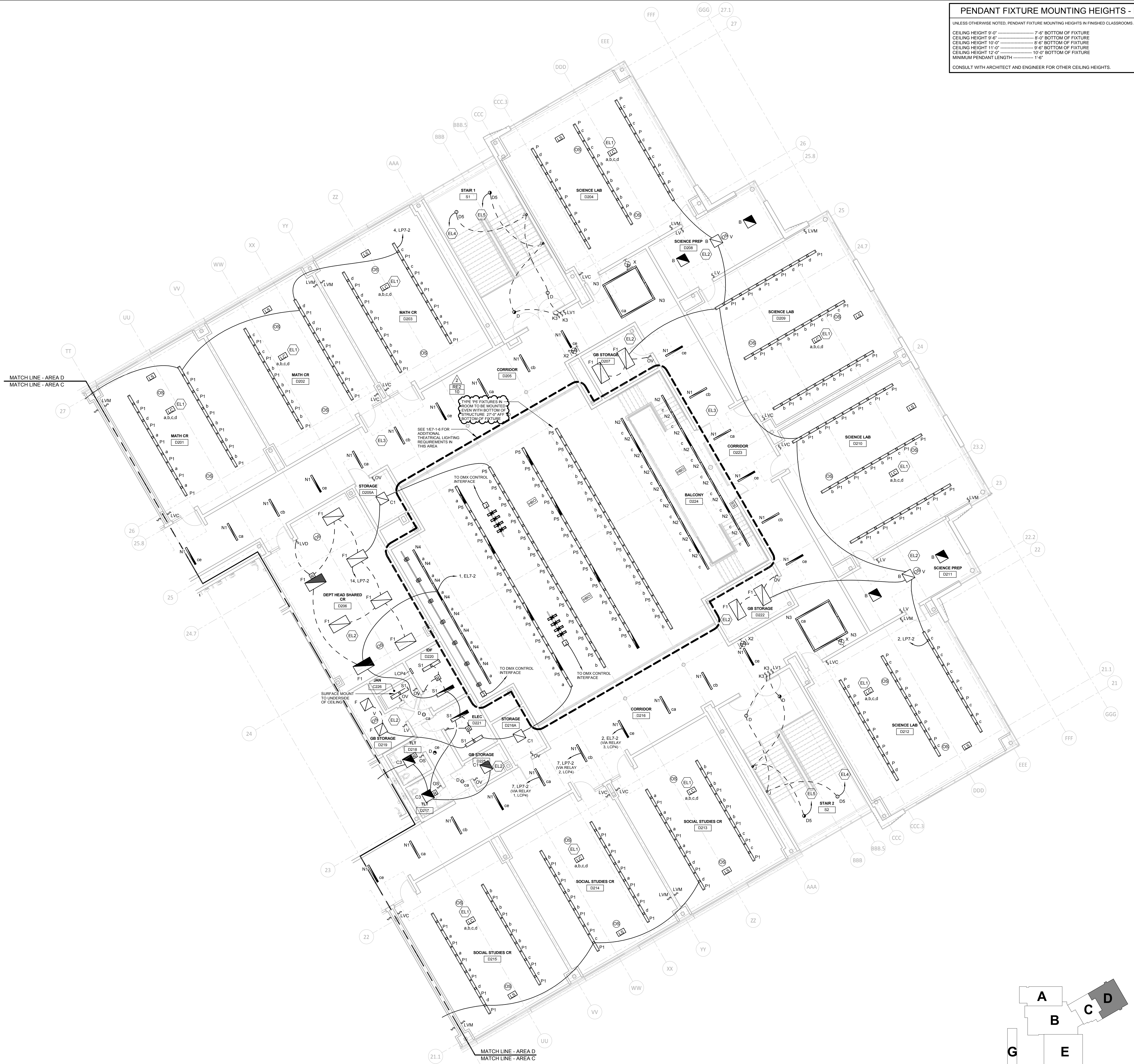
CONSULT WITH ARCHITECT AND ENGINEER FOR OTHER CEILING HEIGHTS.

**GENERAL NOTES - ELECTRICAL LIGHTING**

- ALL CIRCUITS SHALL BE 20A, 120V, 3-Ø, TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
- ALL BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10 #10G, 34°C, UNLESS NOTED OTHERWISE.
- ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR MOUNTING HEIGHTS, FINAL LOCATIONS, CONTINUOUS LINEAR LENGTHS AND ADDITIONAL LIGHTING FIXTURE INFORMATION.
- REFER TO DRAWING E5-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, NOTES, AND ABBREVIATIONS.
- REFER TO SPECIFICATION SECTION 26 5100, APPENDIX A FOR THE LIGHT FIXTURE SCHEDULE.
- REFER TO DRAWINGS E6-1-3, E6-1-4, AND E6-1-5 FOR LIGHTING CONTROL DETAILS.
- EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
- PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS AND FLOORS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
- MC CABLE WHIPS SHALL BE ALLOWED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES ABOVE ACCESSIBLE CEILING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING USE OF MC CABLE.
- REFER TO LIGHT FIXTURE LABELING SCHEMATIC ON DRAWING E5-1-1 FOR LIGHT FIXTURE TYPE, LIGHTING CONTROL ZONE DESIGNATION AND ADDITIONAL BRANCH CIRCUIT AND CONTROL INFORMATION.
- MINIMUM MOUNTING HEIGHT OF LIGHTING FIXTURES IN MECHANICAL/ELECTRICAL SPACES TO BE 8'-6" AFF. COORDINATE MOUNTING HEIGHTS WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IN ALL LOCATIONS WHERE A LIGHT FIXTURE OR SUPPORTING DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**ELECTRICAL LIGHTING KEY NOTES**

- (EL1) CLASSROOM LIGHTING CONTROL PANEL - REFER TO DETAILS ON DRAWING E6-1-4 FOR WIRING, 10-30A EMERGENCY BYPASS RELAYS, AND CONTROL DEVICES.
- (EL2) REFER TO DETAILS ON DRAWING E6-1-3 FOR TYPICAL STANDALONE PRIVATE OFFICE, CONFERENCE ROOM, STORAGE ROOM, REST ROOMS, AND SMALL INTERIOR ROOM.
- (EL3) REFER TO DETAILS AND SCHEDULES ON DRAWINGS E6-1-5 AND E6-1-8 FOR CORRIDOR, LOBBY, TRADE SHOP, OPEN SPACE AND EXTERIOR EGRESS LIGHTING CONTROL.
- (EL4) UP/DOWN TO NEXT NORMAL LIGHTING FIXTURE IN STAIRWELL.
- (EL5) UP/DOWN TO NEXT EMERGENCY LIGHTING FIXTURE IN STAIRWELL.
- (EL6) SEE ARCHITECTURAL ENTRY SOFFIT DETAIL FOR MOUNTING. (2) TYPE 'W3' FIXTURES RUN IN PARALLEL.



1 SECOND FLOOR LIGHTING PLAN - AREA D  
1/8" = 1'-0"

**100% CONSTRUCTION DOCUMENTS**

drawing title  
SECOND FLOOR ELECTRICAL LIGHTING PLAN AREA D

REVISIONS	
mark	description
2	07/30/2019 ADDENDUM NO. 2

drawing prepared by  
**Consulting Engineering Services, Inc.**  
911 Middle St., Middletown, CT 06457

date  
05/24/2019

scale  
As Indicated

drawn by  
vsm

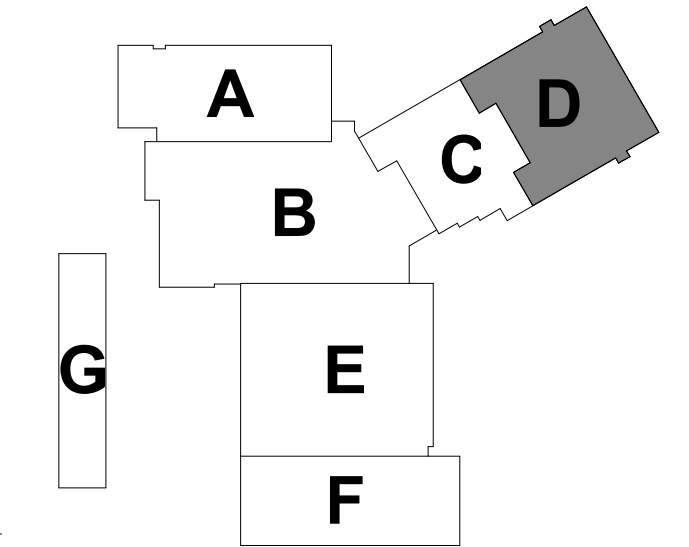
approved by  
rsm

drawing no.  
**E1-1-2D**

project  
**ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL**  
600 Orange Avenue Middletown, CT 06461

CAD no.  
DCS project no.  
BLRT-076 CM-R

OSCR project no.  
990-0013



**LIGHTNING PROTECTION KEY NOTES**

(LP1) PROVIDE A GROUND RING CONDUCTOR (COUNTERPOISE) EXTENDING AROUND THE PERIMETER OF THE BUILDING. BURY COUNTERPOISE NOT LESS THAN 30-INCHES BELOW GRADE AND 5-FEET FROM BUILDING FOUNDATION. USE #10 AWG FOR COUNTERPOISE AND FOR TAP TO BUILDING STEEL. COUNTERPOISE CONDUCTOR TRENCH SHALL BE FILLED WITH 1" OF ERICO G.E.M. ABOVE AND BELOW CONDUCTOR (TYPICAL WHERE SHOWN).

(LP2) GROUND THE STEEL FRAMEWORK OF THE BUILDING WITH A GROUND ROD AT EVERY CORNER COLUMN AND AT EVERY OTHER EXTERIOR COLUMN. GROUND RODS SHALL BE LOCATED IN COUNTERPOISE TRENCH AND SHALL BE ATTACHED TO COUNTERPOISE WITH A TYPE GY (CONDUCTOR-TO-ROD) BY ERICO AND AN X8 (CONDUCTOR-TO-CONDUCTOR) CONNECTION BY ERICO. TOP OF GROUND ROD SHALL NOT BE LESS THAN 24" BELOW GRADE. THE CONDUCTOR THAT ATTACHES THE ROD TO THE COUNTERPOISE SHALL BE RUN CONTINUOUS TO THE BASE OF THE STRUCTURAL STEEL COLUMN AND SHALL BE WELDED TO THE COLUMN (TYPICAL WHERE SHOWN).

**KEY NOTES - GYMNASIUM**

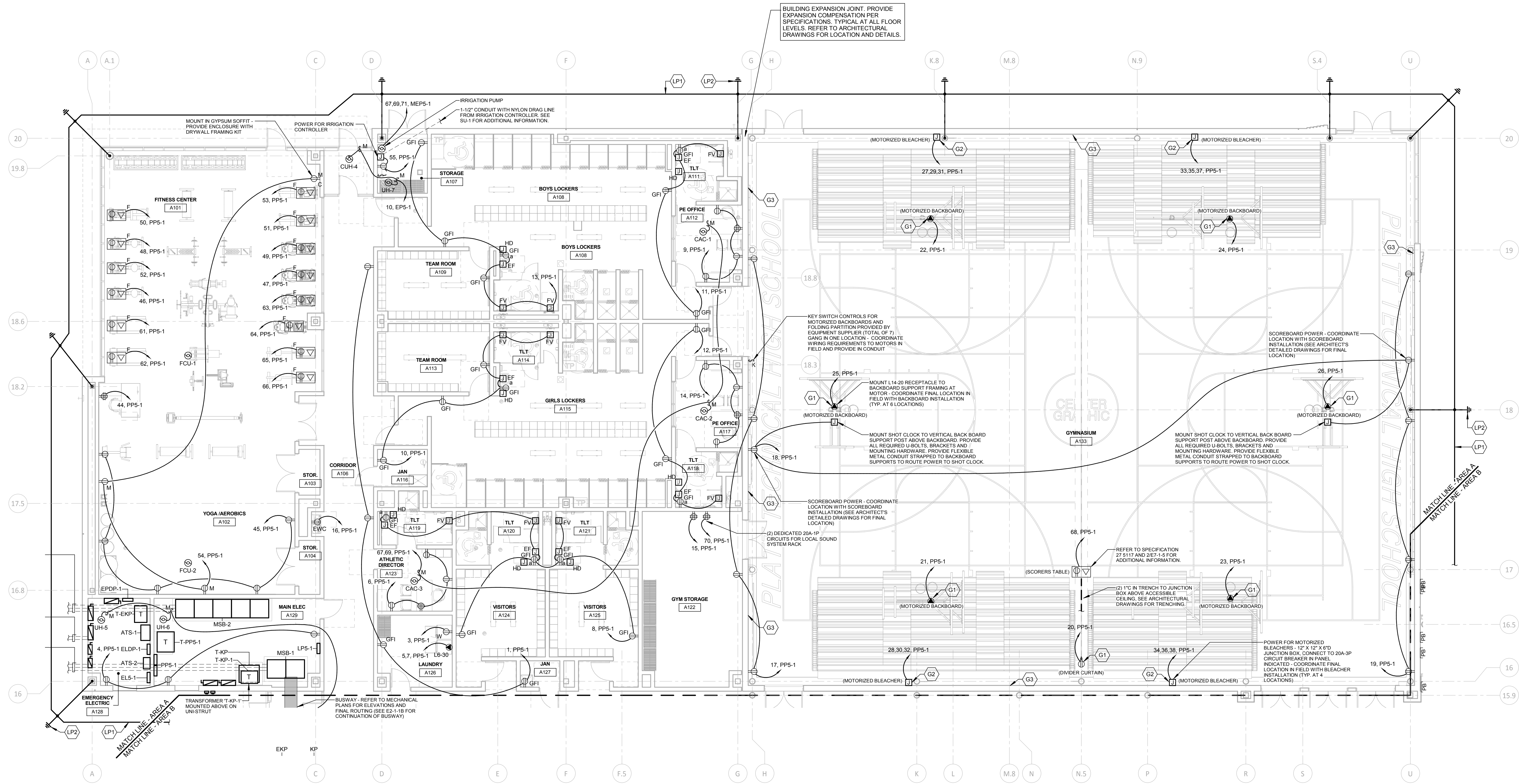
(G1) THE ELECTRICAL CONTRACTOR SHALL PROVIDE A JUNCTION BOX WITH RECEPTACLE FOR A 3/4 HP, 120V/0°1 PHASE MOTOR WITH CORD AND PLUG AT EACH MOTORIZED BACKBOARD AND DIVIDER CURTAIN. JUNCTION BOXES SHALL BE LOCATED IN STRUCTURE ABOVE BACKBOARDS AND DIVIDER CURTAIN. MOTORS SHALL BE CONTROLLED BY KEY OPERATED SWITCHES FURNISHED BY THE EQUIPMENT SUPPLIER. INSTALLATION, WIRING, FINAL CONNECTIONS AND MATERIALS SHALL BE BY THE ELECTRICAL CONTRACTOR.

(G2) WIRING OF MOTORIZED BLEACHER COMPONENTS AND CONTROLS SHALL BE BY THE EQUIPMENT SUPPLIER. FINAL CONNECTIONS TO EQUIPMENT CONTROL BOX SHALL BE BY THE ELECTRICAL CONTRACTOR. REFER TO EQUIPMENT CONSULTANT'S DETAILED DRAWINGS FOR ADDITIONAL REQUIREMENTS.

(G3) ELECTRICAL DEVICES ALONG THIS WALL SHALL BE MOUNTED IN PRECAST PANELS. REFER TO GENERAL NOTE #10 FOR ADDITIONAL INFORMATION.

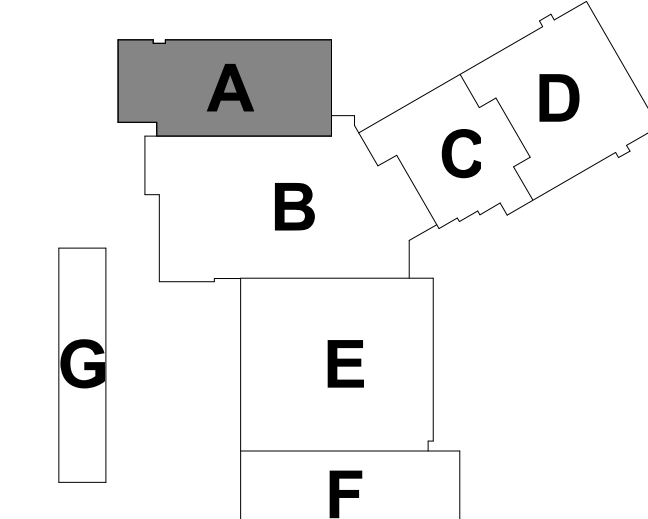
**GENERAL NOTES - ELECTRICAL POWER**

- ALL CIRCUITS SHALL BE #12, #10G, .34°C, TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
- ALL 120VAC BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE #10, #10G, .34°C, UNLESS NOTED OTHERWISE.
- ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
- REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
- REFER TO DRAWING E5-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
- REFER TO DRAWING E5-1-2 FOR MOTOR CIRCUIT SCHEDULE.
- ALL RECEPTACLES LOCATED WITHIN 6' OF A SOURCE OF WATER SHALL BE GFCI TYPE.
- ALL RECEPTACLE BRANCH CIRCUIT HOMERUNS SERVING A SPACE SHALL BE IN CONDUIT. REFER TO SPECIFICATIONS FOR ALLOWABLE USE OF MC CABLE.
- ALL PANELBOARD FEEDERS SHALL BE IN CONDUIT.
- IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO "E" SERIES DRAWINGS AND ELECTRICAL TRADE SHOP EQUIPMENT SCHEDULES ON DRAWING E5-1-3 FOR ADDITIONAL WIRING AND DEVICE LOCATIONS AND REQUIREMENTS.



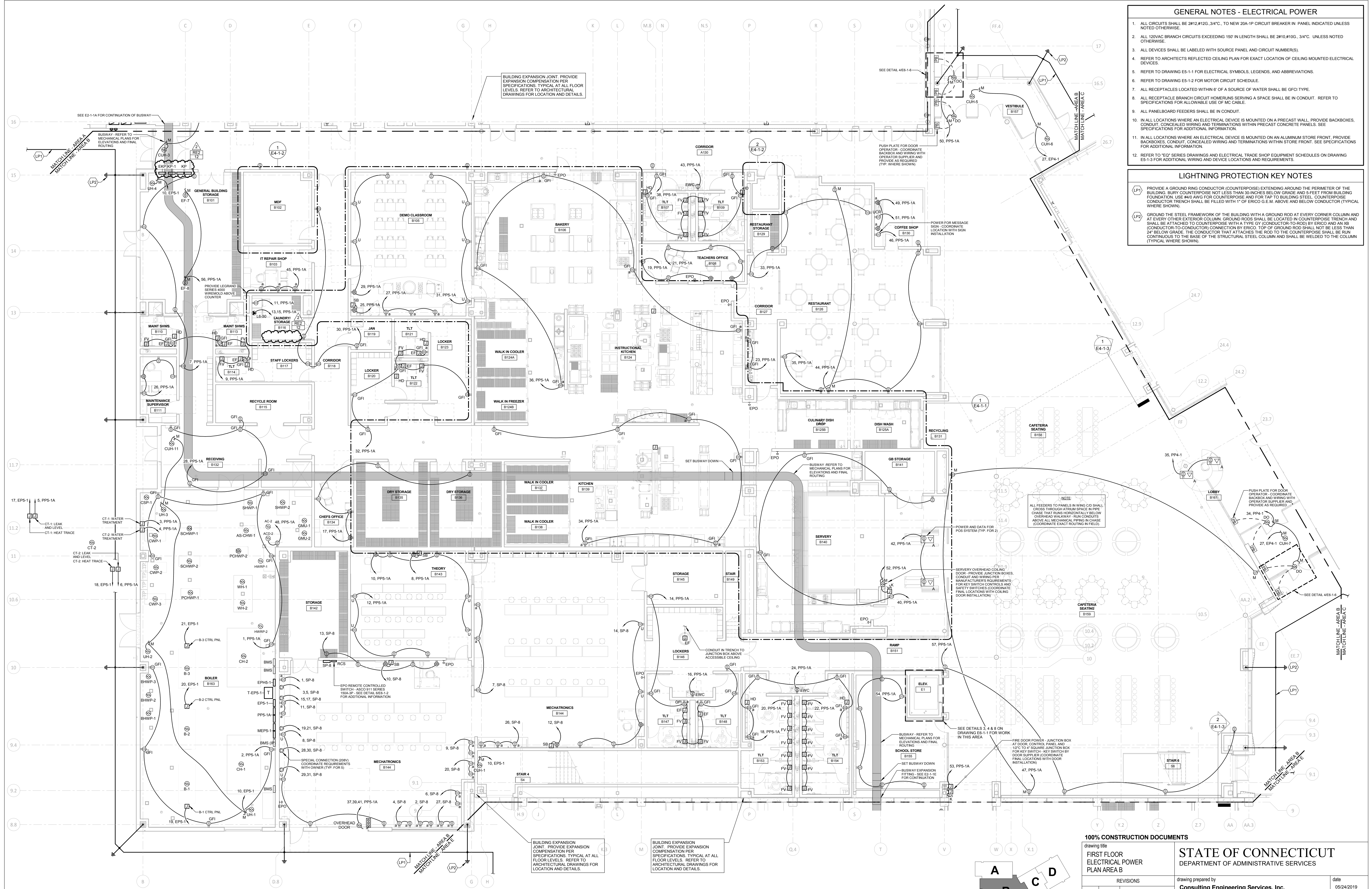
1 FIRST FLOOR ELECTRICAL POWER PLAN - AREA A  
1/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS			
drawing title		STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
FIRST FLOOR ELECTRICAL POWER PLAN AREA A		drawing prepared by <b>Consulting Engineering Services, Inc.</b> 811 Middle St., Middletown, CT 06457	
date		date	
07/30/2019		05/24/2019	
description		scale	
ADDENDUM NO. 2		As Indicated	
project		drawn by	
ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL 600 Orange Avenue Middletown, CT 06461		vsm	
CAD no.		approved by	
DCS project no. BLRT-076 CM-R		esm	
OSCRG project no. 900-0013		drawing no.	
		E2-1-1A	



- ### GENERAL NOTES - ELECTRICAL POWER
- ALL CIRCUITS SHALL BE 2#12, #12G, 3/4" C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
  - ALL 120VAC BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10, #10G, 3/4" C. UNLESS NOTED OTHERWISE.
  - ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
  - REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
  - REFER TO DRAWING ES-1 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
  - REFER TO DRAWING ES-1.2 FOR MOTOR CIRCUIT SCHEDULE.
  - ALL RECEPTACLES LOCATED WITHIN 6' OF A SOURCE OF WATER SHALL BE GFCI TYPE.
  - ALL RECEPTACLE BRANCH CIRCUIT HOMERUNS SERVING A SPACE SHALL BE IN CONDUIT. REFER TO SPECIFICATIONS FOR ALLOWABLE USE OF MC CABLE.
  - ALL PANELBOARD FEEDERS SHALL BE IN CONDUIT.
  - IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - REFER TO 'EO' SERIES DRAWINGS AND ELECTRICAL TRADE SHOP EQUIPMENT SCHEDULES ON DRAWING ES-1.3 FOR ADDITIONAL WIRING AND DEVICE LOCATIONS AND REQUIREMENTS.

- ### LIGHTNING PROTECTION KEY NOTES
- (LP1) PROVIDE A GROUND RING CONDUCTOR (COUNTERPOISE) EXTENDING AROUND THE PERIMETER OF THE BUILDING. BURY COUNTERPOISE NOT LESS THAN 30-INCHES BELOW GRADE AND 5'-FEET FROM BUILDING FOUNDATION. USE #40 AWG FOR COUNTERPOISE AND FOR TAP TO BUILDING STEEL. COUNTERPOISE CONDUCTOR TRENCH SHALL BE FILLED WITH 1" OF ERICO G.E.M. ABOVE AND BELOW CONDUCTOR (TYPICAL WHERE SHOWN).
- (LP2) GROUND THE STEEL FRAMEWORK OF THE BUILDING WITH A GROUND ROD AT EVERY CORNER COLUMN AND AT EVERY OTHER EXTERIOR COLUMN. GROUND RODS SHALL BE LOCATED IN COUNTERPOISE TRENCH AND SHALL BE ATTACHED TO COUNTERPOISE WITH A TYPE GY (CONDUCTOR-TO-ROD) BY ERICO AND AN XB (CONDUCTOR) CONNECTION BY ERICO. TOP OF GROUND ROD SHALL NOT BE LESS THAN 24" BELOW GRADE. THE CONDUCTOR THAT ATTACHES THE ROD TO THE COUNTERPOISE SHALL BE RUN CONTINUOUS TO THE BASE OF THE STRUCTURAL STEEL COLUMN AND SHALL BE WELDED TO THE COLUMN (TYPICAL WHERE SHOWN).

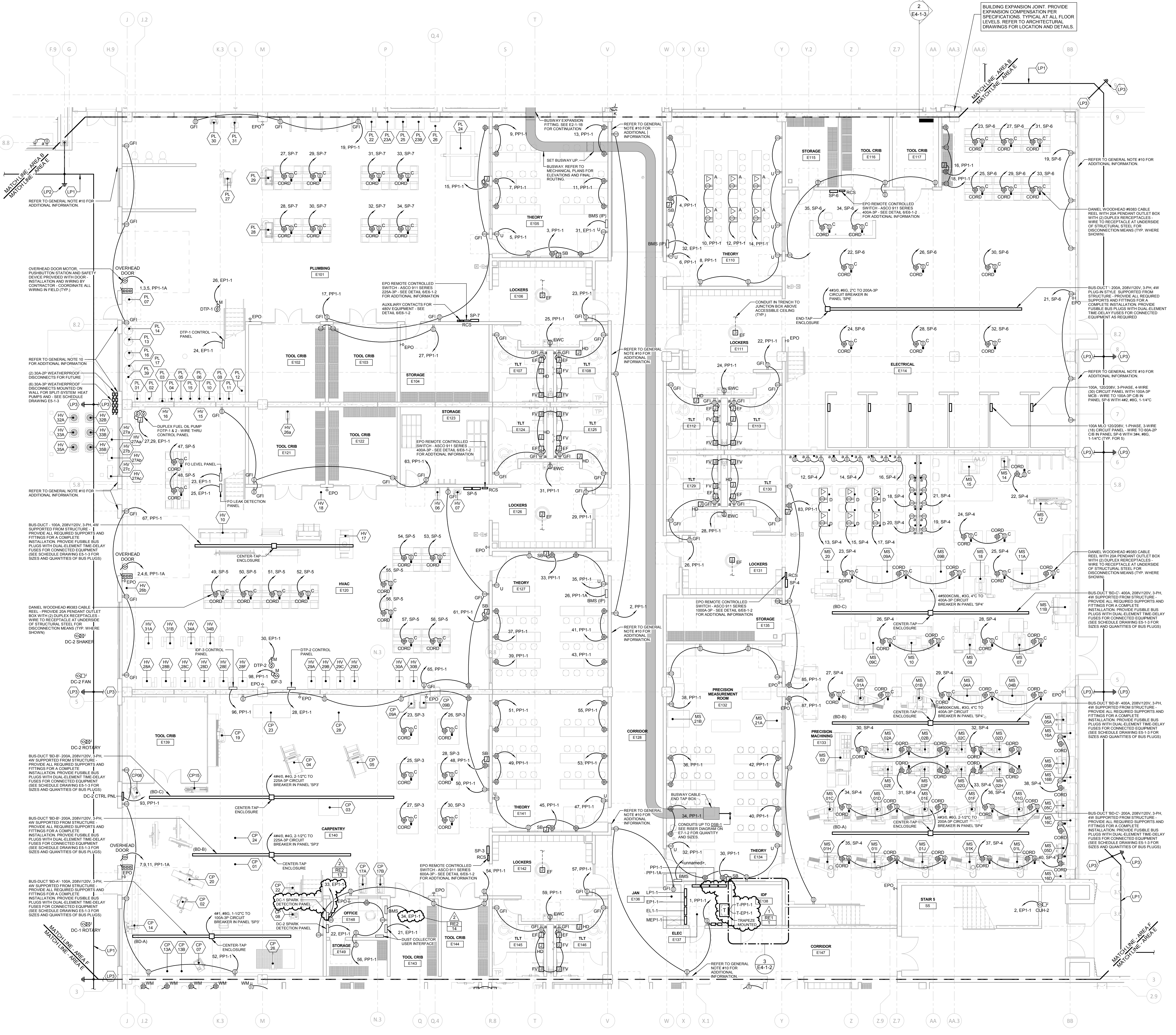


1 FIRST FLOOR ELECTRICAL POWER PLAN - AREA B  
1/8" = 1'-0"

REVISIONS		date	description
mark	date	description	
2	07/30/2019	ADDENDUM NO. 2	

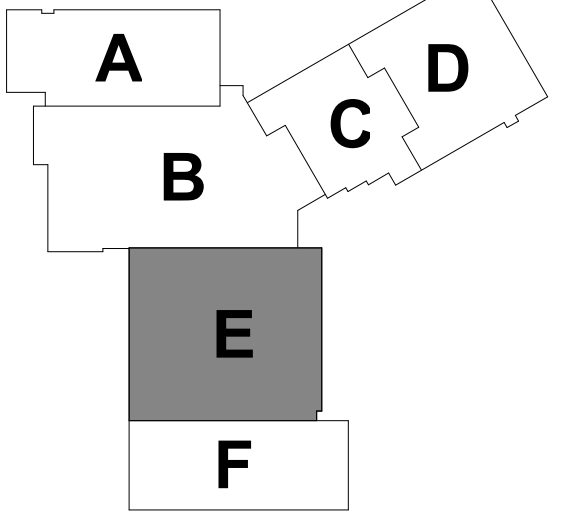
  

drawing title	FIRST FLOOR ELECTRICAL POWER PLAN AREA B
drawing no.	E2-1-1B
project	ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL
CAD no.	DCS project no. B187-076 C.M.R.
OSCRG project no.	900-0113
date	05/24/2019
scale	As Indicated
drawn by	vsm
approved by	esm
drawing no.	E2-1-1B



- ### GENERAL NOTES - ELECTRICAL POWER
1. ALL CIRCUITS SHALL BE 2#12, #12G, 3/4" C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
  2. ALL 120VAC BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10, #10G, 3/4" C. UNLESS NOTED OTHERWISE.
  3. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
  4. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
  5. REFER TO DRAWING ES-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
  6. REFER TO DRAWING ES-1-2 FOR MOTOR CIRCUIT SCHEDULE.
  7. ALL RECEPTACLES LOCATED WITHIN 6' OF A SOURCE OF WATER SHALL BE GFCI TYPE.
  8. ALL RECEPTACLE BRANCH CIRCUIT HOMERUNS SERVING A SPACE SHALL BE IN CONDUIT. REFER TO SPECIFICATIONS FOR ALLOWABLE USE OF MC CABLE.
  9. ALL PANELBOARD FEEDERS SHALL BE IN CONDUIT.
  10. IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  11. IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  12. REFER TO "EO" SERIES DRAWINGS AND ELECTRICAL TRADE SHOP EQUIPMENT SCHEDULES ON DRAWING ES-1-3 FOR ADDITIONAL WIRING AND DEVICE LOCATIONS AND REQUIREMENTS.

- ### LIGHTNING PROTECTION KEY NOTES
- (LP1) PROVIDE A GROUND RING CONDUCTOR (COUNTERPOISE) EXTENDING AROUND THE PERIMETER OF THE BUILDING. BURY COUNTERPOISE NOT LESS THAN 30-INCHES BELOW GRADE AND 5-FEET FROM BUILDING FOUNDATION. USE #40 AWG FOR COUNTERPOISE AND FOR TAP TO BUILDING STEEL. COUNTERPOISE CONDUCTOR TRENCH SHALL BE FILLED WITH 1" OF ERCO G.E.M. ABOVE AND BELOW CONDUCTOR (TYPICAL WHERE SHOWN).
  - (LP2) GROUND THE STEEL FRAMEWORK OF THE BUILDING WITH A GROUND ROD AT EVERY CORNER COLUMN AND AT EVERY OTHER EXTERIOR COLUMN. GROUND RODS SHALL BE LOCATED IN COUNTERPOISE TRENCH AND SHALL BE ATTACHED TO COUNTERPOISE WITH A TYPE GY (CONDUCTOR-TO-ROD) BY ERCO AND AN XB (CONDUCTOR-TO-CONDUCTOR) CONNECTION BY ERCO. TOP OF GROUND ROD SHALL NOT BE LESS THAN 24" BELOW GRADE. THE CONDUCTOR THAT ATTACHES THE ROD TO THE COUNTERPOISE SHALL BE RUN CONTINUOUS TO THE BASE OF THE STRUCTURAL STEEL COLUMN AND SHALL BE WELDED TO THE COLUMN (TYPICAL WHERE SHOWN).
  - (LP3) LIGHTNING PROTECTION DOWNLEAD FROM THE LIGHTNING PROTECTION SYSTEM ON THE ROOF TO A GROUND ROD. GROUND RODS SHALL BE LOCATED IN COUNTERPOISE TRENCH AND SHALL BE ATTACHED TO COUNTERPOISE WITH A TYPE GY (CONDUCTOR-TO-ROD) BY ERCO AND AN XB (CONDUCTOR-TO-CONDUCTOR) CONNECTION BY ERCO. TOP OF GROUND ROD SHALL NOT BE LESS THAN 24" BELOW GRADE. THE CONDUCTOR THAT ATTACHES THE ROD TO THE COUNTERPOISE SHALL BE RUN CONTINUOUS TO THE ROOF LIGHTNING PROTECTION SYSTEM. (TYPICAL WHERE SHOWN).



1 FIRST FLOOR ELECTRICAL POWER PLAN - AREA E  
1/8" = 1'-0"

REVISIONS		date	description
1	07/23/2019	ADDENDUM NO. 1	
2	07/30/2019	ADDENDUM NO. 2	

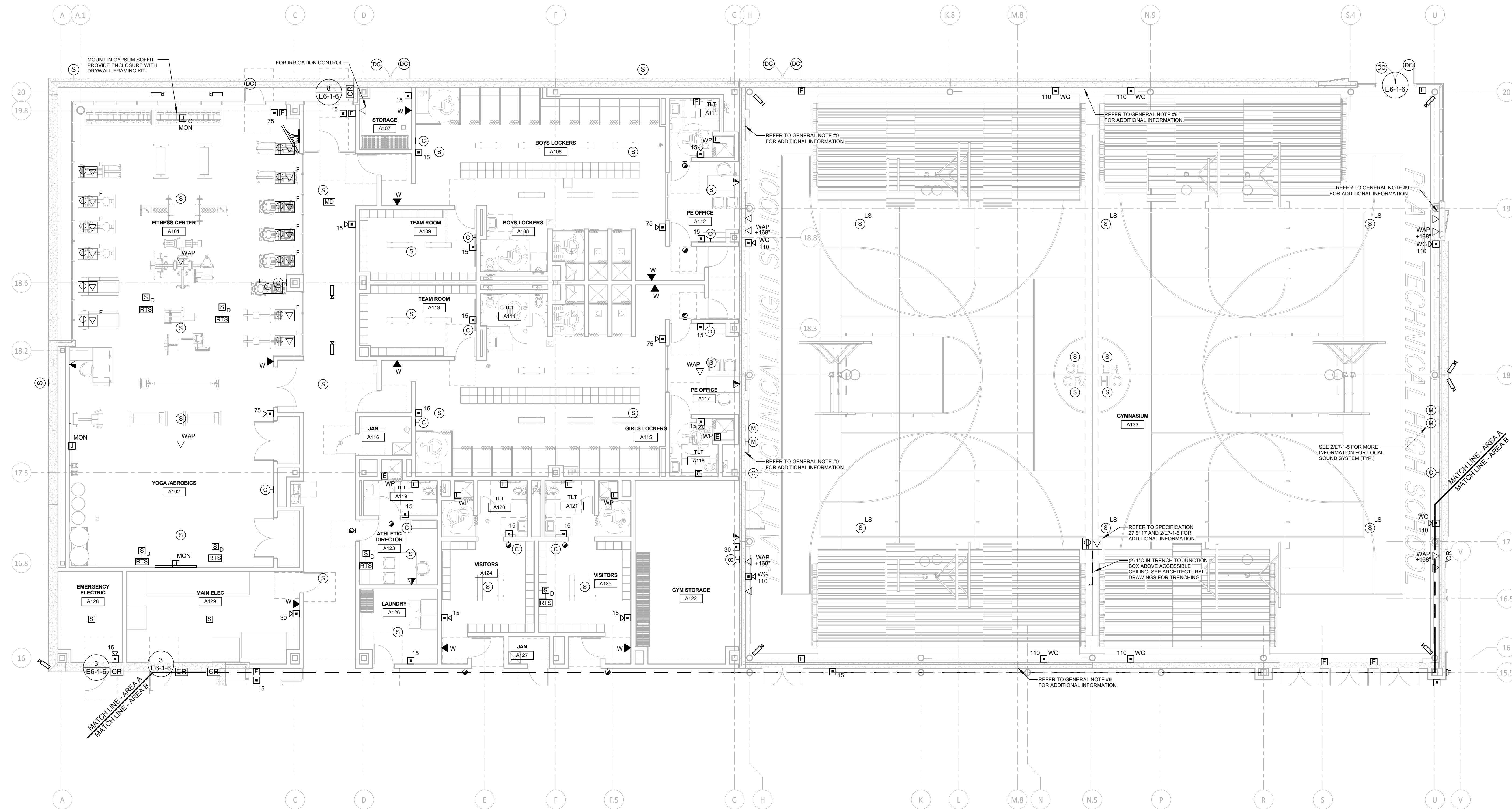
drawing title		date	
FIRST FLOOR ELECTRICAL POWER PLAN AREA E		05/24/2019	
drawing by		scale	
vsm		As Indicated	
approved by		drawing no.	
rsw		E2-1-1E	
drawing no.		project	
E2-1-1E		ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL	
CAD no.		project	
DCS project no. BRT-076-CR-R		OSGCR project no. 900-0113	

**GENERAL NOTES - ELECTRICAL SYSTEMS**

- ALL CIRCUITS SHALL BE #12,#10G,.34°C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
- ALL 120VAC BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE #10,#10G,.34°C. UNLESS NOTED OTHERWISE.
- ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
- REFER TO DRAWING ES-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
- REFER TO DRAWING ES-1-2 FOR MOTOR CIRCUIT SCHEDULE.
- ALL RECEPTACLES LOCATED WITHIN 8' OF A SOURCE OF WATER SHALL BE GFCI TYPE.
- PRIOR TO ROUGH-IN, COORDINATE ALL AV RECEPTACLE AND BACKBOX LOCATIONS AND MOUNTING TYPES WITH THE OWNER PROVIDED AV SYSTEM INSTALLATION.
- IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**ELECTRICAL SYSTEMS KEY NOTES**

- (ES1) SMOKE DAMPER AND ASSOCIATED CONTROL MODULE. REFER TO DETAIL 7/66-1-1 FOR ADDITIONAL INFORMATION.



1 FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA A  
1/8" = 1'-0"

**100% CONSTRUCTION DOCUMENTS**

drawing title  
FIRST FLOOR  
ELECTRICAL SYSTEMS  
PLAN AREA A

REVISIONS		
mark	date	description
2	07/30/2019	ADDENDUM NO. 2

STATE OF CONNECTICUT  
DEPARTMENT OF ADMINISTRATIVE SERVICES

drawing prepared by  
**Consulting Engineering Services, Inc.**  
911 Middle St., Middletown, CT 06457

project  
**ADDITIONS AND RENOVATIONS  
PLATT TECHNICAL HIGH SCHOOL**  
600 Orange Avenue Middletown, CT 06461

CAD no. DCS project no. OSCGR project no.  
B4RT-076 CM-R 990-0113

date

05/24/2019

scale

As Indicated

drawn by

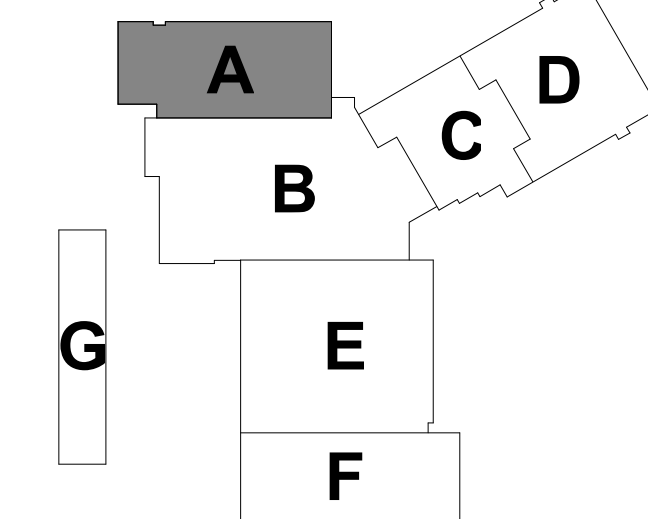
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approved by

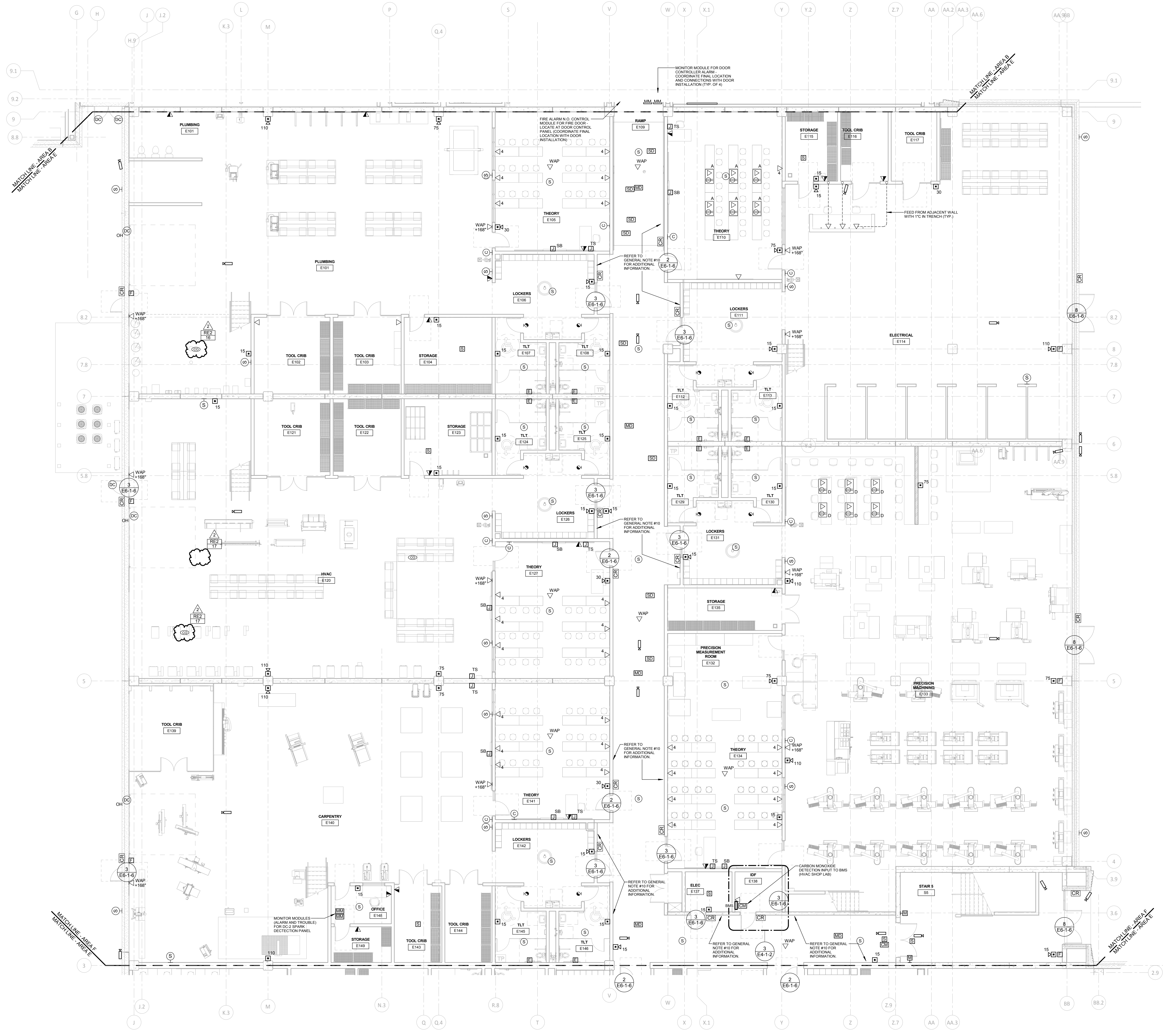
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drawing no.

E3-1-1A



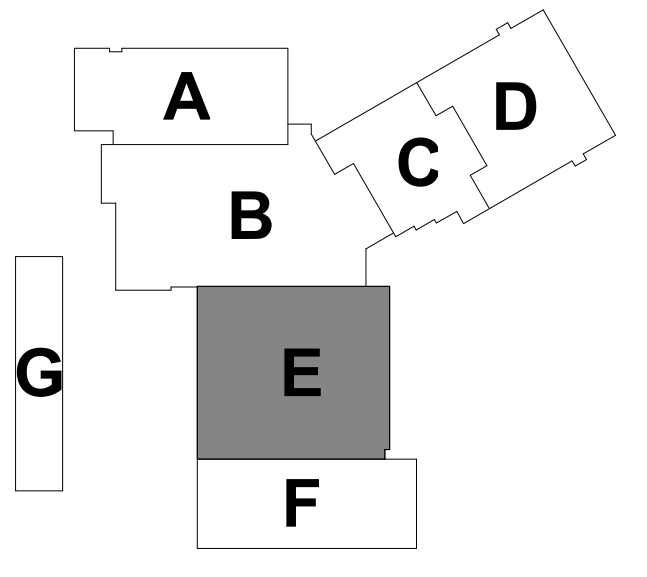




- GENERAL NOTES - ELECTRICAL SYSTEMS**
- ALL CIRCUITS SHALL BE 2#12, #12G, 3/4" C. TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
  - ALL 120VAC BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10, #10G, 3/4" C. UNLESS NOTED OTHERWISE.
  - ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
  - REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
  - REFER TO DRAWING ES-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
  - REFER TO DRAWING ES-1-2 FOR MOTOR CIRCUIT SCHEDULE.
  - ALL RECEPTACLES LOCATED WITHIN 6' OF A SOURCE OF WATER SHALL BE GFCI TYPE.
  - PRIOR TO ROUGH-IN, COORDINATE ALL AV RECEPTACLE AND BACKBOX LOCATIONS AND MOUNTING TYPES WITH THE OWNER PROVIDED AV SYSTEM INSTALLATION.
  - IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

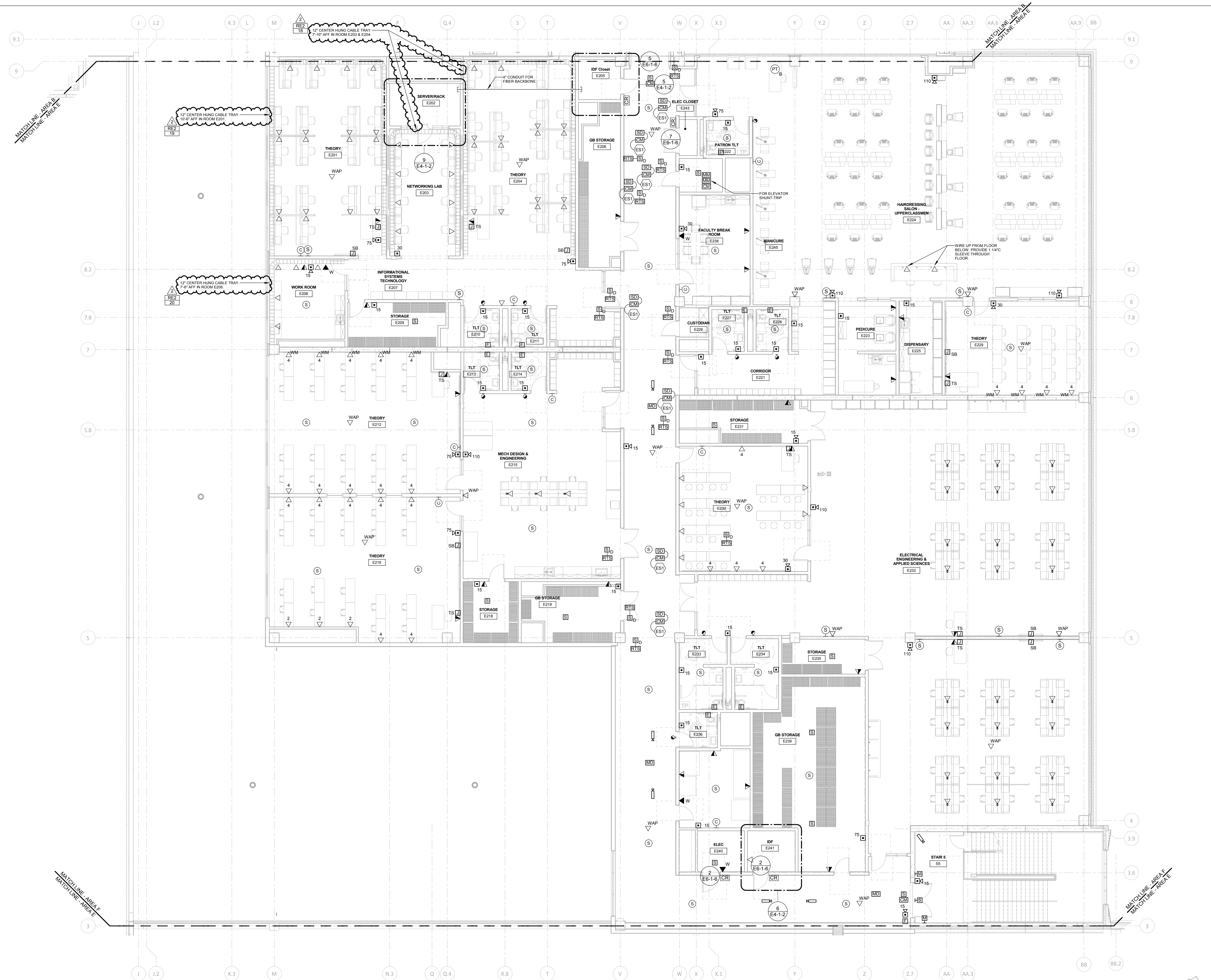
**ELECTRICAL SYSTEMS KEY NOTES**

(ES1) SMOKE DAMPER AND ASSOCIATED CONTROL MODULE. REFER TO DETAIL 7/E6-1-1 FOR ADDITIONAL INFORMATION.



1 FIRST FLOOR SYSTEMS PLAN - AREA E  
1/8" = 1'-0"

100% CONSTRUCTION DOCUMENTS		drawing title		date	
FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA E		CONSULTING ENGINEERING SERVICES, INC.		05/24/2019	
drawing title		drawing prepared by		scale	
FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA E		CONSULTING ENGINEERING SERVICES, INC.		As Indicated	
drawing title		drawing prepared by		drawn by	
FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA E		CONSULTING ENGINEERING SERVICES, INC.		vsm	
drawing title		drawing prepared by		approved by	
FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA E		CONSULTING ENGINEERING SERVICES, INC.		rsm	
drawing title		drawing prepared by		drawing no.	
FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA E		CONSULTING ENGINEERING SERVICES, INC.		E3-1-1E	
drawing title		drawing prepared by		drawing no.	
FIRST FLOOR ELECTRICAL SYSTEMS PLAN AREA E		CONSULTING ENGINEERING SERVICES, INC.		E3-1-1E	

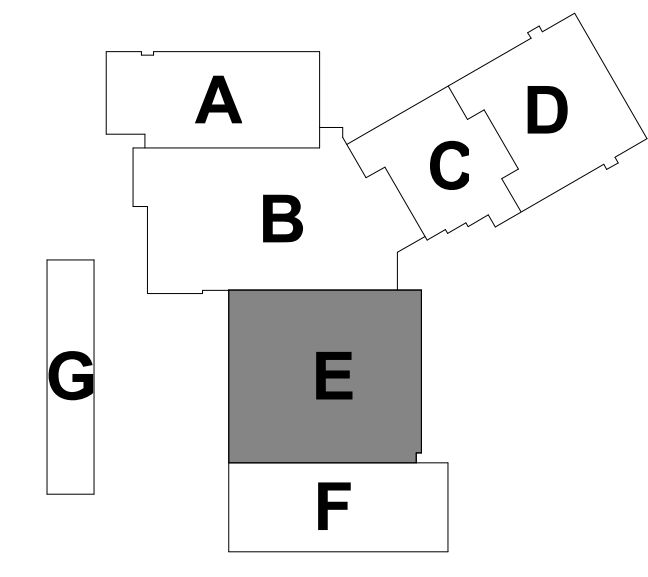


- ### GENERAL NOTES - ELECTRICAL SYSTEMS
- ALL CIRCUITS SHALL BE #12G, #14G, TO NEW 20A-1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
  - ALL 120VAC BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE #10, #10G, #14G, UNLESS NOTED OTHERWISE.
  - ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
  - REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES.
  - REFER TO DRAWING E5-1-1 FOR ELECTRICAL SYMBOLS, LEGENDS, AND ABBREVIATIONS.
  - REFER TO DRAWING E5-1-2 FOR MOTOR CIRCUIT SCHEDULE.
  - ALL RECEPTACLES LOCATED WITHIN 6' OF A SOURCE OF WATER SHALL BE GFCI TYPE.
  - PRIOR TO ROUGH-IN, COORDINATE ALL AV RECEPTACLE AND BACKBOX LOCATIONS AND MOUNTING TYPES WITH THE OWNER PROVIDED AV SYSTEM INSTALLATION.
  - IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON A PRECAST WALL, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN PRECAST CONCRETE PANELS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - IN ALL LOCATIONS WHERE AN ELECTRICAL DEVICE IS MOUNTED ON AN ALUMINUM STORE FRONT, PROVIDE BACKBOXES, CONDUIT, CONCEALED WIRING AND TERMINATIONS WITHIN STORE FRONT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

### ELECTRICAL SYSTEMS KEY NOTES

(ES1) SMOKE DAMPER AND ASSOCIATED CONTROL MODULE. REFER TO DETAIL 7/E5-1-1 FOR ADDITIONAL INFORMATION.

1 SECOND FLOOR ELECTRICAL SYSTEMS PLAN AREA E  
1/8" = 1'-0"



100% CONSTRUCTION DOCUMENTS			STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES	
drawing title SECOND FLOOR ELECTRICAL SYSTEMS PLAN AREA E			drawing prepared by <b>Consulting Engineering Services, Inc.</b> 911 Middle St., Middletown, CT 06457	
date 05/24/2019			date 05/24/2019	
scale As Indicated			scale As Indicated	
drawn by vsm			drawn by vsm	
approved by rsm			approved by rsm	
drawing no. E3-1-2E			drawing no. E3-1-2E	
project <b>ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL</b> 600 Orange Avenue Middletown, CT 06461			project <b>ADDITIONS AND RENOVATIONS PLATT TECHNICAL HIGH SCHOOL</b> 600 Orange Avenue Middletown, CT 06461	
CAD no.			CAD no.	
DCS project no. BLRT-076 CM-R			OSGCR project no. 990-0013	

ELECTRICAL KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	DESCRIPTION	ELECTRICAL DATA					BRANCH PANEL	CIRCUIT BREAKER	DISC. SWITCH	WIRE AND CONDUIT	CONNECTION	REMARKS
		V	PH	HP	KW	AMP						
CA-01a	REFRIGERATOR/FREEZER, DUAL-TEMP	120	1	--	--	12.0	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NOTE 4, NEMA 5-15R	
CA-01b	REFRIGERATOR/FREEZER, DUAL-TEMP	120	1	--	--	12.0	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NOTE 4, NEMA 5-15R	
CA-02	FIRE SUPPRESSION SYSTEM	120	1	--	--	4.0	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 5, 6	
CA-04	EXHAUST HOOD	208	3	--	--	15.0	KP	20A-3P	3#12, #12G, 3/4" C	NOTE 5	NOTES 7, 8	
CA-04A	FIRE SUPPRESSION SYSTEM	120	1	--	--	4.0	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 5, 6	
CA-06	COMBI-OVEN	208	1	--	--	1.6	7.7	KP	15A-2P	2#12, #12G, 3/4" C	NOTES 1, 4, 5, 6	NOTE 6, NEMA 6-15R
CA-07	CONVECTION OVEN	208	3	--	--	26.5	76.0	KP	100A-3P	3#1 #10G, 1" C	NOTES 1, 5	--
CA-08	CHECK OVEN	208	3	--	--	15.0	54.0	KP	70A-3P	3#10, #10G, 3/4" C	NOTES 1, 5	--
CA-09	ROLL-IN PROOFER/RETARDER	208	1	--	--	5.7	27.0	KP	35A-2P	2#10, #10G, 3/4" C	NOTES 1, 5	--
CA-12a	PLANETARY MIXER	120	1	1/6"	--	2.9	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-12b	PLANETARY MIXER	120	1	1/6"	--	2.9	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-12c	PLANETARY MIXER	120	1	1/6"	--	2.9	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-12d	PLANETARY MIXER	120	1	1/6"	--	2.9	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-15	DOUGH SHEETER W/ STAND	120	1	3/4"	--	8.3	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-16	PLANETARY MIXER 30QT	208	1	3/4"	--	2.8	--	KP	15A-2P	2#12, #12G, 3/4" C	NOTES 1, 5	--
CA-19	DOUGH ROLLER	120	1	3/4"	--	8.8	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	--
CA-20	BLAST CHILLER/SHOCK FREEZER, REACH-IN	208	3	--	--	6.6	26.5	KP	30A-3P	3#10, #10G, 3/4" C	NOTES 2, 5, 7	NEMA L15-30R
CA-24	WALK-IN COOLER (+35°F)	120	1	--	--	1.0	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
CA-24A	CONDENSING UNIT (FOR CA-24)	208	3	--	--	8.3	--	EKP	15A-3P	3#12, #12G, 3/4" C	NOTES 1, 3, 5	NOTES 2, 9
CA-24B	EVAPORATOR COIL (FOR CA-24)	120	1	--	--	2.3	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
CA-25	WALK-IN COOLER (+35°F)	120	1	(2) 1/15"	--	8.2	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
CA-25A	CONDENSING UNIT (FOR CA-25)	208	3	--	--	8.2	--	EKP	15A-3P	3#12, #12G, 3/4" C	NOTES 1, 3, 5	NOTES 2, 9
CA-25B	EVAPORATOR COIL (FOR CA-25)	120	1	(2) 1/15"	--	2.3	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
CA-26	WALK-IN FREEZER (-10°F)	120	1	--	--	1.2	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
CA-26A	CONDENSING UNIT (FOR CA-26)	208	3	--	--	13.7	--	EKP	20A-3P	3#12, #12G, 3/4" C	NOTES 1, 3, 5	NOTES 2, 9
CA-26B	EVAPORATOR COIL (FOR CA-26)	120	1	(2) 1/15"	--	10.3	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
CA-33a	EQUIPMENT STAND, REFRIGERATED BASE	120	1	1/4"	--	8.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NOTES 10, 11
CA-33b	EQUIPMENT STAND, REFRIGERATED BASE	120	1	1/4"	--	8.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-35a	RANGE, RESTAURANT, GAS	120	1	--	--	5.9	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTES 6, 10, 11
CA-35b	RANGE, RESTAURANT, GAS	120	1	--	--	5.9	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTE 6, NEMA 5-15R
CA-37	SLICER, FOOD	120	1	1/2"	--	5.6	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-38	MIXER-20QT W/ STAND	120	1	1/2"	--	8.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-41	EXHAUST HOOD ASSEMBLY	120	1	--	--	4.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTE 5	NOTES 7, 8
CA-42	FIRE SUPPRESSION SYSTEM	120	1	--	--	4.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 5, 6
CA-43	KETTLE, STEAM JACKETED	120	1	--	--	2.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-44	TILT SKILLET	120	1	--	--	3.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-45a	OVEN, CONVECTION, GAS	120	1	3/4"	--	8.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-45b	OVEN, CONVECTION, GAS	120	1	3/4"	--	8.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-46a	OVEN STEAMER, COMBINATION GAS	208	1	--	--	3.7	--	UDS (CA)	15A-2P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-46b	OVEN STEAMER, COMBINATION GAS	208	1	--	--	3.7	--	UDS (CA)	15A-2P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-47a	CONVECTION OVEN	120	1	--	--	5.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-47b	CONVECTION OVEN	120	1	--	--	5.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-48a	FRYER, DEEP FAT, GAS	120	1	--	--	1.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-48b	FRYER, DEEP FAT, GAS	120	1	--	--	1.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 6, 10, 11
CA-48c	FRYER, DUMP STATION	120	1	--	--	0.8	6.3	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTES 10, 11
CA-49	EXHAUST HOOD ASSEMBLY	120	1	--	--	4.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTE 5	NOTES 10, 11
CA-50	FIRE SUPPRESSION SYSTEM	120	1	--	--	4.0	--	UDS (CA)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 5, 6
CA-51	CHEF'S COUNTER, REFRIGERATOR, PREP	120	1	1/3"	--	8.6	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-51A	CHEF'S COUNTER, DISPLAY LIGHTS	120	1	--	--	0.2	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	--
CA-52	MICROWAVE CONVECTION OVEN	208	1	--	--	8.3	40.0	KP	50A-2P	2#6, #10G, 1" C	NOTES 2, 5, 6	NEMA 6-50R
CA-53	WARMER, DRAWER TYPE	120	1	--	--	0.7	3.3	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	--
CA-54	TOASTER	208	1	--	--	2.8	14.0	KP	20A-2P	2#12, #12G, 3/4" C	NOTES 2, 5, 6	NEMA 6-20R
CA-57	COFFEE BREWER	208	1	--	--	6.25	26.0	KP	35A-1P	2#10, #10G, 3/4" C	NOTES 1, 5	--
CA-58	TEA BREWER	120	1	--	--	1.7	14.0	KP	20A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-20R
CA-59	REACH-IN REFRIGERATOR	120	1	1/3"	--	5.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-63	COOK HOLD OVEN	208	1	--	--	2.9	14.0	KP	20A-2P	2#12, #12G, 3/4" C	NOTES 2, 5, 6	NEMA 6-20R
CA-65	ROUND GRIDDLE/PLANCHIA	120	1	--	--	1.5	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTE 6, NEMA 5-15R
CA-66	EXHAUST HOOD	120	1	--	--	15.0	--	KP	20A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTES 7, 8
CA-68	REACH-IN UNDERCOUNTER REFRIGERATOR	120	1	1/6"	--	2.0	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-69	MIXER/PLANETARY	120	1	1/2"	--	8.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-70	FOOD PROCESSOR	208	3	3"	--	--	--	KP	20A-3P	3#12, #12G, 3/4" C	NOTES 2, 5, 7	NEMA L15-20R
CA-71	POS STATION	120	1	--	--	5.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-74a	DISPOSER	208	3	2"	--	12.0	--	KP	20A-3P	3#12, #12G, 3/4" C	NOTES 1, 5	--
CA-74b	DISPOSER	208	3	2"	--	12.0	--	KP	20A-3P	3#12, #12G, 3/4" C	NOTES 1, 5	--
CA-82	ICE CUBER	120	1	--	--	4.9	7.0	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
CA-84	DISPOSER	208	3	2"	--	12.0	--	KP	20A-3P	3#12, #12G, 3/4" C	NOTES 1, 5	--
CA-85	DISHWASHER	480	3	2"	--	13.4	MEPS-1	20A-3P	3#12, #12G, 3/4" C	NOTES 1, 3, 5	NOTE 2	
CA-88	EXHAUST HOOD	120	1	--	--	4.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTE 5	NOTES 7, 8
CA-87	HOT WATER BOOSTER	480	3	--	--	12.0	14.5	MEPS-1	20A-3P	3#12, #12G, 3/4" C	NOTES 1, 3, 5	NOTE 2
FS-05	MIXER, COUNTER	120	1	1/2"	--	8.0	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
FS-07	KETTLE, STEAM JACKETED	120	1	--	--	2.0	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NOTES 10, 11
FS-09	TILTING SKILLET	120	1	--	--	4.0	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NOTES 10, 11
FS-10a	STEAMER, CONVECTION, GAS	120	1	--	--	--	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTES 6, 10, 11
FS-10b	STEAMER, CONVECTION, GAS	120	1	--	--	--	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTES 6, 10, 11
FS-11a	OVEN-STEAMER, COMBINATION	208	1	--	--	3.7	--	UDS (FS)	20A-2P	2#12, #12G, 3/4" C	NOTES 2, 5	NOTES 10, 11
FS-11b	OVEN-STEAMER, COMBINATION	208	1	--	--	3.7	--	UDS (FS)	20A-2P	2#12, #12G, 3/4" C	NOTES 2, 5	NOTES 10, 11
FS-12a	OVEN, CONVECTION, GAS	120	1	1/2"	--	6.0	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTES 6, 10, 11
FS-12b	OVEN, CONVECTION, GAS	120	1	1/2"	--	6.0	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTES 6, 10, 11
FS-13	RANGE, HEAVY-DUTY, GAS	120	1	--	--	--	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 4, 5	NOTES 6, 10, 11
FS-14	EXHAUST HOOD ASSEMBLY	120	1	--	--	4.0	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 11	NOTES 5, 6
FS-14A	FIRE SUPPRESSION SYSTEM	120	1	--	--	4.0	--	UDS (FS)	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 4, 5	NOTES 5, 6
FS-15	SLICER, FOOD	120	1	1/2"	--	5.6	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
FS-16	PASS-THRU DUAL TEMP CABINET	120	1	--	--	15.7	--	KP	20A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-20R
FS-17a	PASS-THRU HEATED CABINET	208	1	--	--	13.0	--	KP	15A-2P	2#12, #12G, 3/4" C	NOTES 2, 5, 6	NEMA 6-15P
FS-17b	PASS-THRU HEATED CABINET	208	1	--	--	13.0	--	KP	15A-2P	2#12, #12G, 3/4" C	NOTES 2, 5, 6	NEMA 6-15P
FS-19	REFRIGERATOR, REACH-IN GLASS DOOR	120	1	--	--	9.5	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
FS-22	ICE MACHINE	120	1	--	--	15.0	--	EKP	20A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
FS-23	HEATED HOLDING CABINETS	120	1	--	--	7.5	--	KP	15A-1P	2#12, #12G, 3/4" C	NOTES 2, 5	NEMA 5-15R
FS-25	WALK-IN COOLER (+35°F)	120	1	--	--	1.0	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
FS-25A	CONDENSING UNIT (FOR FS-25)	208	3	--	--	8.2	--	EKP	15A-3P	3#12, #12G, 3/4" C	NOTES 1, 3, 5	NOTES 2, 9
FS-25B	EVAPORATOR COIL (FOR FS-25)	120	1	(2) 1/15"	--	2.3	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
FS-26	WALK-IN FREEZER (-10°F)	120	1	--	--	1.0	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	NOTE 9
FS-26A	CONDENSING UNIT (FOR FS-26)	208	3	--	--	13.7	--	EKP	20A-3P	3#12, #12G, 3/4" C	NOTES 1, 3, 5	NOTES 2, 9
FS-26B	EVAPORATOR COIL (FOR FS-26)	120	1	(2) 1/15"	--	10.3	--	EKP	15A-1P	2#12, #12G, 3/4" C	NOTES 1, 5	



ELECTRICAL SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SURFACE MOUNTED PANELBOARD		OCCUPANCY SENSOR WALL SWITCH
	RECESSED PANELBOARD		VACANCY SENSOR WALL SWITCH
	DISCONNECT SWITCH		RELAY
	FUSED DISCONNECT SWITCH		POWER PACK
	COMBINATION STARTER/DISCONNECT SWITCH		LIGHT SENSING PHOTOCELL FOR DAYLIGHT HARVESTING
	ELECTRICAL MOTOR		CEILING MOUNTED OCCUPANCY SENSOR
	ELECTRICAL MOTOR FOR MOTORIZED SHADE SYSTEM. REFER TO 7/E6-1.2 FOR REQUIREMENTS.		CEILING MOUNTED VACANCY SENSOR
	TRANSFORMER		EMERGENCY SHUT-OFF BUTTON
	ELECTRICAL METER		MAGNETIC DOOR HOLD OPEN. SEE DETAIL 9/E6-1.6 FOR ADDITIONAL INFORMATION
	SURGE PROTECTION DEVICE		SITE LIGHTING FIXTURE
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS		EXTERIOR BUILDING MOUNTED LIGHTING FIXTURE
	HOMERUN TO PANELBOARD, UNLESS INDICATED OTHERWISE SHALL BE CONNECTED TO A 1 POLE, 20 AMP CIRCUIT BREAKER		EXTERIOR BUILDING MOUNTED EMERGENCY LIGHTING FIXTURE
	BRANCH CIRCUIT WIRING, SWITCHED		SURFACE MOUNTED FLUORESCENT EMERGENCY LIGHTING FIXTURE
	CONDUIT RUN ON SURFACE OF WALLS/CEILING		SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE
	BRANCH CIRCUIT WIRING BELOW GRADE/SLAB		PENDANT MOUNTED FLUORESCENT EMERGENCY LIGHTING FIXTURE
	UNDERGROUND PRIMARY ELECTRICAL SERVICE		PENDANT MOUNTED FLUORESCENT EMERGENCY LIGHTING FIXTURE
	UNDERGROUND SECONDARY ELECTRICAL SERVICE		RECESSED FLUORESCENT LIGHTING FIXTURE
	JUNCTION BOX		RECESSED FLUORESCENT EMERGENCY LIGHTING FIXTURE
	CEILING MOUNTED JUNCTION BOX		WALL MOUNTED FLUORESCENT LIGHTING FIXTURE
	INTERACTIVE SMARTBOARD DISPLAY INFRASTRUCTURE BACKBOX. REFER TO DETAIL 9/E6-1.1 FOR REQUIREMENTS.		WALL MOUNTED FLUORESCENT EMERGENCY LIGHTING FIXTURE
	TEACHERS STATION INFRASTRUCTURE BACKBOX. REFER TO DETAIL 9/E6-1.1 FOR REQUIREMENTS.		FLUORESCENT INDUSTRIAL OR STRIP TYPE FIXTURE
	DISPLAY MONITOR INFRASTRUCTURE BACKBOX. REFER TO DETAIL 10/E6-1.1 FOR REQUIREMENTS.		TRACK LIGHTING, HEADS AS INDICATED ON DRAWINGS
	CEILING MOUNTED AV BACKBOX		RECESSED DOWNLIGHT FIXTURE
	CEILING MOUNTED PROJECTOR BACKBOX		RECESSED DOWNLIGHT EMERGENCY FIXTURE
	ELECTRONIC FAUCET BACKBOX		SURFACE MOUNTED DOWNLIGHT FIXTURE
	ELECTRONIC FLUSH VALVE BACKBOX		SURFACE MOUNTED DOWNLIGHT EMERGENCY FIXTURE
	JUNCTION BOX FOR MOTORIZED SHADE CONTROLLER. REFER TO DETAIL 7/E6-1.2 FOR REQUIREMENTS.		PENDANT HUNG LIGHTING FIXTURE
	PROVIDE JUNCTION BOX FLUSH IN WALL WITH CONDUIT STUBBED UP TO NEAREST ACCESSIBLE CEILING FOR FUTURE HAND DRYER. PROVIDE WITH BLANK COVER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.		PENDANT HUNG EMERGENCY LIGHTING FIXTURE
	FURNITURE CONNECTION, POWER / DATA / TELEPHONE		WALL SCONCE
	WIREMOLD, LOCATE DEVICES AS INDICATED ON DRAWINGS		WALL WASHER
	DUPLEX WALL MOUNTED RECEPTACLE		WALL MOUNTED LIGHTING FIXTURE
	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE		WALL MOUNTED EMERGENCY LIGHTING FIXTURE
	DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER HEIGHT		WALL MOUNTED EXIT SIGN, DOUBLE FACED
	DUPLEX RECEPTACLE, INSTALLED IN CASEWORK		WALL MOUNTED EXIT SIGN
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION		CEILING MOUNTED EXIT SIGN
	DUPLEX RECEPTACLE WITH WEATHERPROOF COVER		CEILING MOUNTED EXIT SIGN, DOUBLE FACED
	DUPLEX RECEPTACLE WITH ISOLATED GROUND		AREA OF REFUGE COMMUNICATION DEVICE
	DUPLEX RECEPTACLE FOR WALL MOUNTED ELECTRICAL WATER COOLER WITH GROUND FAULT CIRCUIT INTERRUPTION		AREA OF REFUGE MASTER PANEL
	DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORT		FIRE ALARM CONTROL PANEL
	DUPLEX RECEPTACLE FOR DISPLAY MONITOR. REFER TO DETAIL 10/E6-1.1 FOR REQUIREMENTS.		FIRE ALARM REMOTE ANNUNCIATOR PANEL
	DUPLEX RECEPTACLE, CEILING MOUNTED		FIRE ALARM TRANSMITTER PANEL
	DUPLEX RECEPTACLE, MOUNTED 'X' INCHES ABOVE FINISHED FLOOR		END OF THE LINE DEVICE
	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, MOUNTED 'X' INCHES ABOVE FINISHED FLOOR		WALL MOUNTED COMBINATION SPEAKER / STROBE LIGHT WITH MULTI-CANDELA STROBE - MOUNT AT 6'-8" AFF
	RECEPTACLE, MOUNTED IN WIREMOLD		WALL MOUNTED MULTI-CANDELA STROBE LIGHT ONLY - MOUNT AT 6'-8" AFF
	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, CONNECTED TO EMERGENCY POWER		SECURITY SYSTEM KEYPAD
	SPECIAL PURPOSE CONNECTION		SECURITY SYSTEM ELECTRIC LOCK
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS INDICATED		SECURITY SYSTEM MOTION DETECTOR
	TWO SECTION TELE / POWER POLE FOR POWER, TELEPHONE, AND DATA		SECURITY SYSTEM VIDEO INTERCOM
	CEILING MOUNTED SPEAKER - 'LS' INDICATES SPEAKER IS FOR LOCAL SOUND		SECURITY SYSTEM VIDEO INTERCOM MASTER STATION
	WALL MOUNTED SPEAKER		SECURITY SYSTEM VIDEO MONITOR
	CLOCK		SURVEILLANCE CAMERA WITH DATA
	CATV OUTLET, MOUNT 12" BELOW FINISHED CEILING		SECURITY SYSTEM DOOR CONTACT
	COMPUTER OUTLET, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING. SUPERSCRIPIT 'X' INDICATES QUANTITY OF CABLES FOR MODULAR JACKS.		WALL MOUNTED FIRE ALARM MANUAL PULL STATION, MOUNT AT 48" AFF
	COMPUTER OUTLET, MOUNTED IN WIREMOLD		CEILING MOUNTED SMOKE DETECTOR
	COMPUTER OUTLET, MOUNT ABOVE COUNTER HEIGHT, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING.		CEILING MOUNTED HEAT DETECTOR - TEMPERATURE RATING AS INDICATED ON DRAWINGS
	CEILING MOUNTED PROJECTOR OUTLET, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING.		WALL MOUNTED SMOKE DETECTOR
	COMPUTER OUTLET, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING. SUPERSCRIPIT 'X' INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.		SMOKE DETECTOR FOR ELEVATOR RECALL CONTROLS
	COMBINATION TELEPHONE / COMPUTER OUTLET, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING		DUCT MOUNTED SMOKE DETECTOR AND HOUSING
	TELEPHONE OUTLET, TWO GANG BACKBOX WITH 3/4" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING. PROVIDE NYLON PULL STRING AND BUSHING MOUNTED 48" AFF		SMOKE DAMPER
	CEILING MOUNTED WIRELESS ACCESS POINT		REMOTE DUCT SMOKE DETECTOR TEST SWITCH
	WALL MOUNTED WIRELESS ACCESS POINT. SUPERSCRIPIT 'X' INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.		MONITOR MODULE
	SINGLE POLE TOGGLE SWITCH		CONTROL MODULE
	THREE WAY TOGGLE SWITCH		SECURITY VIDEO MONITOR
	FOUR WAY TOGGLE SWITCH		SPRINKLER ALARM TAMPER SWITCH
	DIMMER SWITCH		SPRINKLER ALARM FLOW SWITCH
	LOW VOLTAGE SWITCH - REFER TO DETAILS FOR DESIGNATION OF SUBSCRIPTS AND TYPES OF LOW VOLTAGE SWITCHES		SPRINKLER ALARM PRESSURE SWITCH
	LOW VOLTAGE DIMMER SWITCH		WATER METER / MAIN
	SWITCH FOR MOTORIZED SHADE SYSTEM. REFER TO DETAIL 7/E6-1.2 FOR REQUIREMENTS.		EMERGENCY CALL TOGGLE SWITCH
			EMERGENCY CALL FOR AID COMBINATION BUZZER / LIGHT
			WALL MOUNTED MICROPHONE
			EMERGENCY POWER-OFF WALL SWITCH
			PUSH BUTTON CONTROL STATION

ELECTRICAL FLOOR BOX LEGEND	
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (2) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (3) INTERNAL COMMUNICATIONS BRACKETS WITH (2) MODULAR COMMUNICATIONS JACKS IN EACH BRACKET; INTERNAL BARRIER KITS TO SEPARATE POWER AND DATA COMPARTMENTS; AND SURFACE STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN TRENCH. FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" WITH NYLON DRAG LINE IN TRENCH. STUB CONDUITS UP IN WALL TO ABOVE AN ACCESSIBLE CEILING OR AS SHOWN ON PLANS.
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (1) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (2) INTERNAL COMMUNICATIONS BRACKETS WITH (2) MODULAR COMMUNICATIONS JACKS IN EACH BRACKET; INTERNAL BARRIER KITS TO SEPARATE POWER AND DATA COMPARTMENTS; AND SURFACE STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN TRENCH. FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" WITH NYLON DRAG LINE IN TRENCH. STUB CONDUITS UP IN WALL TO ABOVE AN ACCESSIBLE CEILING OR AS SHOWN ON PLANS.
	PROVIDE (1) WIREMOLD F8B8-06 ON GRADE FLOOR BOX WITH (2) FOUR COMPARTMENT MODULES; (6) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (1) INTERNAL COMMUNICATIONS BRACKETS WITH (2) MODULAR COMMUNICATIONS JACKS; INTERNAL BARRIER KITS TO SEPARATE POWER AND DATA COMPARTMENTS; LEVING LEGS & CABLE MANAGEMENT GUIDES; AND SURFACE STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN TRENCH. FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" WITH NYLON DRAG LINE IN TRENCH. STUB CONDUITS UP IN WALL TO ABOVE AN ACCESSIBLE CEILING OR AS SHOWN ON PLANS.
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (1) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (1) INTERNAL COMMUNICATIONS BRACKETS WITH (2) MODULAR COMMUNICATIONS JACKS; INTERNAL BARRIER KITS TO SEPARATE POWER AND DATA COMPARTMENTS; AND SURFACE STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN TRENCH. FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" WITH NYLON DRAG LINE IN TRENCH. STUB CONDUITS UP IN WALL TO ABOVE AN ACCESSIBLE CEILING OR AS SHOWN ON PLANS.
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (1) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (2) INTERNAL COMMUNICATIONS BRACKETS WITH (2) MODULAR COMMUNICATIONS JACKS IN EACH BRACKET; INTERNAL BARRIER KITS TO SEPARATE POWER AND DATA COMPARTMENTS; AND SURFACE STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN TRENCH. FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" WITH NYLON DRAG LINE IN TRENCH. STUB CONDUITS UP IN WALL TO ABOVE AN ACCESSIBLE CEILING OR AS SHOWN ON PLANS.
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (1) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (1) CENTER COMPARTMENT COMMUNICATIONS BRACKET TO ACCEPT (6) MODULAR COMMUNICATIONS JACKS; (1) BOTTOM HOUSING ASSEMBLY WITH 3/4" AND JUNCTION BOX FOR SIDE COMPARTMENT POWER; (1) BOTTOM HOUSING ASSEMBLY WITH 1-1/4" ADAPTER FOR CENTER COMPARTMENT; BOTTOM HOUSING ASSEMBLY BLANK INSERTS; BARRIER BRACKETS AND PASS THROUGH BRACKETS AS REQUIRED; AND FLUSH STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN FROM FLOOR BELOW, FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" FROM FLOOR BELOW.
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (2) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (1) CENTER COMPARTMENT COMMUNICATIONS BRACKET TO ACCEPT (4) MODULAR COMMUNICATIONS JACKS; (1) BOTTOM HOUSING ASSEMBLY WITH 3/4" AND JUNCTION BOX FOR SIDE COMPARTMENT POWER; (1) BOTTOM HOUSING ASSEMBLY WITH 1-1/4" ADAPTER FOR CENTER COMPARTMENT; BOTTOM HOUSING ASSEMBLY BLANK INSERTS; BARRIER BRACKETS AND PASS THROUGH BRACKETS AS REQUIRED; AND FLUSH STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN FROM FLOOR BELOW, FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" FROM FLOOR BELOW.
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (1) 3/4" AND JUNCTION BOX FOR POWER; (1) 1-1/2" ADAPTER FOR TELECOMMUNICATIONS; FINISH COVER FLANGE WITH (1) 3/4" & (1) 1-1/2" CONDUIT SCREW PLUG OPENINGS (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN FROM FLOOR BELOW, FEED TELECOMMUNICATIONS COMPARTMENT WITH CAT 6 CABLES - 1-1/2" FROM FLOOR BELOW, ROUTE POWER AND COMMUNICATIONS WIRING IN FLEXIBLE METAL CONDUIT FROM DEVICE TO WIRING COMPARTMENT WITHIN FURNITURE.
	PROVIDE (1) WIREMOLD F8B4E-06 ON GRADE FLOOR BOX WITH (2) DUPLEX RECEPTACLE BRACKETS AND DEVICES; (1) CENTER COMPARTMENT COMMUNICATIONS BRACKET TO ACCEPT (2) MODULAR COMMUNICATIONS JACKS; (1) BOTTOM HOUSING ASSEMBLY WITH 3/4" AND JUNCTION BOX FOR SIDE COMPARTMENT POWER; (1) BOTTOM HOUSING ASSEMBLY WITH 1-1/4" ADAPTER FOR CENTER COMPARTMENT; BOTTOM HOUSING ASSEMBLY BLANK INSERTS; BARRIER BRACKETS AND PASS THROUGH BRACKETS AS REQUIRED; AND FLUSH STYLE COVER ASSEMBLY (FINISH SELECTION BY ARCHITECT). FEED POWER COMPARTMENT WITH 2#12-#12G - 3/4" IN FROM FLOOR BELOW, FEED TELECOMMUNICATIONS COMPARTMENT WITH (1) 1-1/4" FROM FLOOR BELOW.

**CONSTRUCTION GENERAL NOTES**

GENERAL NOTES: ALL ELECTRICAL, AUDIO VISUAL, TECHNOLOGY AND SECURITY SYSTEMS AND COMPONENTS INCLUDING BUT NOT LIMITED TO CONDUITS, BACK-BOXES, DEVICES ETC., INSTALLED AT THE ARCHITECTURAL, PRECAST CONCRETE PANELS SHALL BE CAST INTO THE PRE-CAST CONCRETE PANELS IN THE FACTORY TO AVOID EXPOSURE TO VIEW EXTERIOR OR INTERIOR CONDITIONS. CM-R MUST COORDINATE ALL REQUIRED ELECTRICAL PASS WAYS AND COMPONENTS WITH THE PRECAST SUB-CONTRACTOR AS PART OF THE MEPAF COORDINATION PROCESS, AND PRE-CAST SHOP DRAWINGS COORDINATION PROCESS.

ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) SYSTEMS AND COMPONENTS THAT REQUIRE ATTACHMENT TO THE ARCHITECTURAL, PRE-CAST CONCRETE PANELS SHALL BE COORDINATED WITH THE PRE-CAST CONCRETE SUB-CONTRACTOR. NO CUTTING AND/OR PATCHING OF THE PRE-CAST CONCRETE PANELS IS ALLOWED IN THE FIELD. ALL PENETRATIONS THROUGH PRECAST COMPONENTS INCLUDING WALLS, DOUBLE TEES AND HOLLOW CORE PLANK FLOORS AND ROOFS SHALL BE COORDINATED BY THE SUB-CONTRACTORS AND THE CM-R PRIOR TO MANUFACTURING OF THE PRECAST CONCRETE COMPONENTS.

FIRST FLOOR - AREA B: ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP&FP) SYSTEMS COMPONENTS THAT REQUIRE PENETRATIONS THROUGH PRE-CAST CONCRETE PLANK AT MEZZANINES FLOOR STRUCTURE SHALL BE COORDINATED WITH THE PRE-CAST PLANK CORE LOCATIONS. PENETRATIONS THROUGH THE PRE-CAST HOLLOW CORE PLANK, ARE ONLY ALLOWED THROUGH THE CORES. CM-R MUST COORDINATE ALL OPENINGS IN THE PRE-CAST CONCRETE PLANK AS PART OF THE MEPAF COORDINATION PROCESS.

MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) CONTRACTORS REFER TO THE ARCHITECTURAL, REFLECTED CEILING PLANS, SECTIONS AND DETAILS DRAWINGS FOR LOCATIONS OF THE SOUND BARRIER CEILING SYSTEM. THIS IS A SPECIALTY SOUND ISOLATION SUSPENDED CEILING SYSTEM. MEP&FP SYSTEMS COMPONENTS ARE NOT ALLOWED TO BE ATTACHED/SUSPENDED, OR INSTALLED ABOVE THIS CEILING SYSTEM UNLESS SPECIFICALLY NOTED OTHERWISE. EACH SUB-CONTRACTOR SHALL PROVIDE UNISTRUT SUPPORTS ATTACHED TO BOTTOM CORD OF STRUCTURAL STEEL BEAMS OR INSERTS PROVIDED AS PART OF THE PRECAST DOUBLE TEES AS REQUIRED TO SUPPORT MEP&FP SYSTEMS COMPONENTS. SPECIALLY ACOUSTICALLY RATED ACCESS PANELS MAY BE ALLOWED TO ACCESS MEP&FP SYSTEMS COMPONENTS LOCATED ABOVE THE SOUND BARRIER SYSTEM ON THE LIMITED BASES AT LOCATIONS SPECIFICALLY INDICATED ON THE MEPAF DRAWINGS.

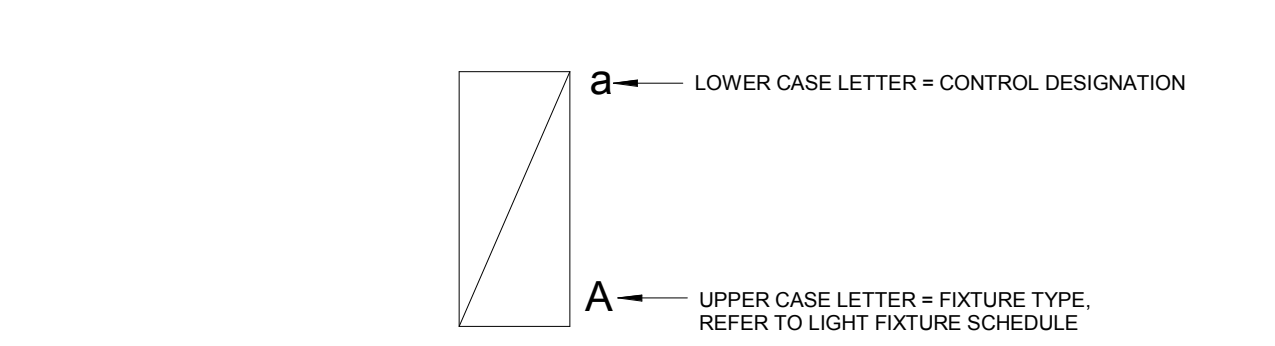
FIRST FLOOR - AREA E: ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP&FP) SYSTEMS COMPONENTS THAT REQUIRE PENETRATIONS THROUGH PRE-CAST CONCRETE PLANK AT MEZZANINES FLOOR STRUCTURE SHALL BE COORDINATED WITH THE PRE-CAST PLANK CORE LOCATIONS. PENETRATIONS THROUGH THE PRE-CAST HOLLOW CORE PLANK, ARE ONLY ALLOWED THROUGH THE CORES. CM-R MUST COORDINATE ALL OPENINGS IN THE PRE-CAST CONCRETE PLANK AS PART OF THE MEPAF COORDINATION PROCESS.

MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) CONTRACTORS REFER TO THE ARCHITECTURAL, REFLECTED CEILING PLANS, SECTIONS AND DETAILS DRAWINGS FOR LOCATIONS OF THE SOUND BARRIER CEILING SYSTEM. THIS IS A SPECIALTY SOUND ISOLATION SUSPENDED CEILING SYSTEM. MEP&FP SYSTEMS COMPONENTS ARE NOT ALLOWED TO BE ATTACHED/SUSPENDED, OR INSTALLED ABOVE THIS CEILING SYSTEM UNLESS SPECIFICALLY NOTED OTHERWISE. EACH SUB-CONTRACTOR SHALL PROVIDE UNISTRUT SUPPORTS ATTACHED TO BOTTOM CORD OF STRUCTURAL STEEL BEAMS OR INSERTS PROVIDED AS PART OF THE PRECAST DOUBLE TEES AS REQUIRED TO SUPPORT MEP&FP SYSTEMS COMPONENTS. SPECIALLY ACOUSTICALLY RATED ACCESS PANELS MAY BE ALLOWED TO ACCESS MEP&FP SYSTEMS COMPONENTS LOCATED ABOVE THE SOUND BARRIER SYSTEM ON THE LIMITED BASES AT LOCATIONS SPECIFICALLY INDICATED ON THE MEPAF DRAWINGS.

FIRST FLOOR - AREA F: ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION (MEP&FP) SYSTEMS COMPONENTS THAT REQUIRE PENETRATIONS THROUGH PRE-CAST CONCRETE PLANK AT MEZZANINES FLOOR STRUCTURE SHALL BE COORDINATED WITH THE PRE-CAST PLANK CORE LOCATIONS. PENETRATIONS THROUGH THE PRE-CAST HOLLOW CORE PLANK, ARE ONLY ALLOWED THROUGH THE CORES. CM-R MUST COORDINATE ALL OPENINGS IN THE PRE-CAST CONCRETE PLANK AS PART OF THE MEPAF COORDINATION PROCESS.

MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) CONTRACTORS SHALL FOLLOW SPECIFIC DETAILS INDICATED ON THE DRAWINGS FOR ATTACHMENT TO THE DOUBLE TEES AND HOLLOW CORE PRECAST PLANK AT FLOORS AND ROOFS.

SECOND FLOOR AREA F: MECHANICAL, ELECTRICAL AND FIRE PROTECTION (MEP&FP) CONTRACTORS SHALL FOLLOW SPECIFIC DETAILS INDICATED ON THE DRAWINGS FOR ATTACHMENT TO THE DOUBLE TEES AND HOLLOW CORE PRECAST PLANK AT FLOORS AND ROOFS.



- NOTES:**
- FIXTURE CONTROL DESIGNATION REFERS TO ZONE/SWITCH/RELAY CONTROL OF FIXTURES CONTROLLED BY COMMON.
    - SWITCH FOR LIGHTING IN ROOM, CORRIDOR, OPEN AREA
    - ZONE RELAY IN LOCAL LIGHTING CONTROL PANEL OR LIGHTING CONTROL RELAY PANEL
    - ALL CONTROL DEVICES (SWITCHES, CONTROL PANELS, OCCUPANCY/VACANCY SENSORS, ETC) WITH CONTROL DESIGNATIONS REFERS TO COMMON CONTROL OF THE SAME ZONE/SWITCH/RELAY CONTROL.
  - WHERE CONTROL DESIGNATION IS NOT SHOWN, FOLLOW WIRING SHOWN ON PLANS FOR FIXTURE CONTROL.
  - WHERE EMERGENCY AND NORMAL FIXTURES ARE CONTROLLED FROM THE SAME ZONE/SWITCH/CONTROL RELAY, LE 99A EMERGENCY BYPASS RELAYS SHOWN WITH SAME CONTROL DESIGNATION BYPASS THAT ZONE/SWITCH/CONTROL RELAY. REFER TO EMERGENCY LIGHTING CIRCUIT SCHEMATICS FOR ADDITIONAL WIRING INFORMATION.
  - UNSWITCHED LIGHTING BRANCH CIRCUIT WIRING IS SHOWN TO A SINGLE FIXTURE IN EACH COMMON CONTROL ZONE, UNLESS OTHERWISE INDICATED, PROVIDE 2#12-#12G, 3/4" FOR SWITCHED WIRING TO ALL COMMON CONTROL FIXTURES.
  - PROVIDE LOW VOLTAGE DIMMING CONTROL, WIRING AS INDICATED IN LIGHTING CONTROL DETAILS FOR DIMMABLE LIGHT FIXTURES IN COMMON CONTROL. ZONES/SWITCHES/RELAY CONTROL.
  - REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL WIRING AND CONTROL INFORMATION.
  - REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES WHERE APPLICABLE FOR ADDITIONAL CONTROL INFORMATION.

**LIGHT FIXTURE LABELING SCHEMATIC**

ELECTRICAL ABBREVIATIONS			
A/AMP	AMPERE	JB	JUNCTION BOX
AC	ALTERNATING CURRENT	KCMIL	THOUSAND CIRCULAR MILS
ACFI	ARC FAULT CIRCUIT INTERRUPTER	KVA	KILOVOLT AMPERE
ACU	AIR CONDITIONING UNIT	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MAU	MAKE UP AIR UNIT
AHU	AIR HANDLING UNIT	MIB	MAIN CIRCUIT BREAKER
AIC	AMPS INTERRUPTING CURRENT	MCC	MOTOR CONTROL CENTER
AL	ALUMINUM	MCCB	MOLDED CASE CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BSMT	BASEMENT	NLO	MAIN LUGS ONLY
C	CONDUIT	NA	NOT APPLICABLE
CATV	CABLE TELEVISION	NEC	NATIONAL ELECTRIC CODE
CIB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NTS	NEW LOCATION OF EXISTING RELOCATED
COMP	COMPRESSOR	NR	NEW TO REPLACE EXISTING
CP	CONDENSATE PUMP	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	P	POLE
CU	CONDENSING UNIT, COPPER	PE	PRIMARY ELECTRICAL SERVICE
CUH	CABINET UNIT HEATER	PF	POWER FACTOR
D	DEGREE	PH	PHASE
DA	DIAMETER	PVC	POLYVINYL CHLORIDE CONDUIT
DN	DOWN	PNE	PANEL
DW	DISHWASHER	R	REMOVE EXISTING
DWG	DRAWING	REG	REG GALVANIZED STEEL CONDUIT
ETR	EXISTING TO REMAIN	REF	REFRIGERATOR
EF	EXHAUST FAN	RL	RELOCATE EXISTING
ELEC	ELECTRICAL	RM	ROOM
ELEV	ELEVATOR	RM	REMOVE AND REPLACE ON NEW SURFACE
EMT	ELECTRIC METALLIC TUBING	SE	SECONDARY ELECTRICAL SERVICE
EUH	ELECTRIC UNIT HEATER	RTU	ROOFTOP UNIT
EWC	ELECTRIC WATER COOLER	SE	SECONDARY ELECTRICAL SERVICE
EW	ELECTRIC WATER HEATER	SPEC	SPECIFICATION
F	FAHRENHEIT	SWBD	SWITCHBOARD
FA	FIRE ALARM	SP	SURGE PROTECTION DEVICE
FACP	FIRE ALARM CONTROL PANEL	TELE	TELECOMMUNICATIONS/TELEPHONE
FC	FOOT CANDLE	TYT	TELETYPE
FCL	FAN COIL UNIT	TR	TRANSFORMER
FL	FLOOR	TYP	TYPICAL
G	GROUND	U	UNIT
GFCL	GROUND FAULT CIRCUIT INTERRUPTER	UP	UPPER
HP	HORSE POWER	V	VOLTS
HPS	HIGH PRESSURE SODIUM	VA	VOLT AMPERE
HR	HOUR	W	WATT WIRE
HZ	HERTZ	WG	WIRE GUARD
IG	ISOLATED GROUND	WP	WEATHERPROOF
IN	INCHES		

**DIVISION 26 SYSTEMS GENERAL NOTES**

- GENERAL FIRE ALARM NOTES**
- THE SCOPE OF WORK FOR THIS PROJECT IS TO PROVIDE A NEW NFPA 72 COMPLIANT FIRE ALARM SYSTEM THROUGHOUT THE PROJECT AREA OF WORK.
  - COORDINATE DEVICE LOCATIONS WITH THE ARCHITECTURAL PLANS AND THE WORK OF ALL OTHER DIVISIONS.
  - COORDINATE FIRE ALARM INTERFACE REQUIREMENTS WITH:
    - DIV. 8 - DOOR HARDWARE, COILING DOORS, OVERHEAD DOORS.
    - DIV.

MOTOR CIRCUIT SCHEDULE																
EQUIPMENT	PANEL	OCP	# OF POLES	BRANCH CIRCUIT	LOCAL DISC.	MOTOR STARTER			LOAD				REMARKS			
						SW	SIZE	TYPE	LOCATION	HP	MCA	FLA		MOP	PHASE	VOLT
AC-1	MEP-1	90 A	3	3#2, #60, 1-1/4"	100A3P	-	VFD	AT UNIT	40	-	-	-	3	480 V	SEE NOTE 10	
AC-2	MEP-1	150 A	3	3#2, #60, 1-1/4"	200A3P	-	VFD	AT UNIT	60	-	-	-	3	480 V	SEE NOTE 10	
AHU-1-RA-1	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-1-RA-2	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-1-SA-1	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-1-SA-2	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-2-RA-1	MEP-2	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-2-RA-2	MEP-2	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-2-SA-1	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-2-SA-2	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-3-RA-1	MEP-2	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-3-RA-2	MEP-2	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-3-SA-1	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-3-SA-2	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-4-RA-1	MEP-3	25 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	10	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-4-RA-2	MEP-3	25 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	10	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-4-SA-1	MEP-3	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-4-SA-2	MEP-3	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-5-RA-1	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-5-RA-2	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-5-SA-1	MEP-2	40 A	3	3#10, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-5-SA-2	MEP-2	40 A	3	3#10, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-6-RA-1	MEP-3	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-6-RA-2	MEP-3	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-6-SA-1	MEP-3	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-6-SA-2	MEP-3	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-7-RA-1	MEP-2	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-7-RA-2	MEP-2	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-7-SA-1	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-7-SA-2	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-8-RA-1	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-8-RA-2	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-8-SA-1	MEP-2	60 A	3	3#4, #10G, 1"	DIV 23	-	VFD	AT UNIT	20	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-8-SA-2	MEP-2	60 A	3	3#4, #10G, 1"	DIV 23	-	VFD	AT UNIT	20	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-9-RA-1	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-9-RA-2	MEP-2	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	7.5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-9-SA-1	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-9-SA-2	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-A-RA-1	MEP-3	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-A-RA-2	MEP-3	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-A-SA-1	MEP-3	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
AHU-A-SA-2	MEP-3	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
B-1	EPH-1	15 A	3	3#12, #12G, 3/4"	30A3P	-	DIV 23	DIV 23	5	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
B-2	EPH-1	15 A	3	3#12, #12G, 3/4"	30A3P	-	DIV 23	DIV 23	5	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
B-3	EPH-1	15 A	3	3#12, #12G, 3/4"	30A3P	-	DIV 23	DIV 23	5	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
BHWP-1	EPH-1	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
BHWP-2	EPH-1	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
BHWP-3	EPH-1	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
CH-1	MSB-2	500 A	3	6#250, 2#2G, (2) 2-1/2"	DIV 23	-	DIV 23	DIV 23	-	330 A	-	-	500 A	3	480 V	SEE NOTE 3
CH-2	MSB-2	500 A	3	6#250, 2#2G, (2) 2-1/2"	DIV 23	-	DIV 23	DIV 23	-	330 A	-	-	500 A	3	480 V	SEE NOTE 3
CSF-1	MEP-1	20 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
CT-1	MEP-1	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
CU-1/AC-1	EP-2	20 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	5	-	-	-	1	208 V	SEE NOTE 8	
CU-2/AC-2	EP-2	20 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	5	-	-	-	1	208 V	SEE NOTE 8	
CU-3/AC-3	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-4/AC-4	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-5/AC-5	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-6/AC-6	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-7/AC-7	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-8/AC-8	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-9/AC-9	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-10/AC-10	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CU-11/AC-11	EP-2	15 A	2	2#12, #12G, 3/4"	2PTS	-	DIV 23	DIV 23	12.2 A	-	-	-	1	208 V	SEE NOTE 8	
CUA-1	MEP-3	50 A	3	3#8, #10G, 3/4"	60A3P	-	DIV 23	DIV 23	-	40 A	-	-	50 A	3	480 V	SEE NOTE 8
CWP-1	MEP-1	60 A	3	3#4, #10G, 1"	DIV 23	-	VFD	AT UNIT	20	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
CWP-2	MEP-1	60 A	3	3#4, #10G, 1"	DIV 23	-	VFD	AT UNIT	20	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
CWP-3	MEP-1	60 A	3	3#4, #10G, 1"	DIV 23	-	VFD	AT UNIT	20	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
DC-1/FAN	MEP-1	70 A	3	3#4, #10G, 1"	100A3P	-	VFD	AT UNIT	25	-	-	-	3	480 V	SEE NOTE 1	
DC-1/ROTARY	MEP-1	15 A	3	3#12, #12G, 3/4"	30A3P	00	FVNR	AT UNIT	2	-	-	-	3	480 V	SEE NOTES 2.4 & 4	
DC-1/SHAKER	PP-1	15 A	1	2#12, #12G, 3/4"	1PTS	00	FVNR	AT UNIT	14	-	-	-	1	120 V	SEE NOTES 2.4 & 4	
DC-2/FAN	MEP-1	90 A	3	3#2, #60, 1-1/4"	100A3P	-	VFD	AT UNIT	40	-	-	-	3	480 V	SEE NOTES 1.3 & 7	
DC-2/ROTARY	MEP-1	15 A	3	3#12, #12G, 3/4"	30A3P	00	FVNR	AT UNIT	2	-	-	-	3	480 V	SEE NOTES 2.4 & 4	
DC-2/SHAKER	MEP-1	15 A	3	3#12, #12G, 3/4"	30A3P	00	FVNR	AT UNIT	34	-	-	-	3	480 V	SEE NOTES 2.4 & 4	
DOAS-1-EF	MEP-2	25 A	3	3#10, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	10	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
DOAS-1-EK-1	MEP-2	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
DOAS-1-EF	MEP-2	40 A	3	3#8, #10G, 3/4"	DIV 23	-	VFD	AT UNIT	15	-	-	-	3	480 V	SEE NOTES 1.3 & 3	
EF-1	EPDP-1	15 A	3	3#12, #12G, 3/4"	DIV 23	-	DIV 23	DIV 23	1.5	-	-	-	3	480 V	SEE NOTE 3	
EF-2	MEP-1	15 A	3	3#12, #12G, 3/4"	DIV 23	-	VFD	AT UNIT	5	-	-	-	3	480 V		

Branch Panel: LDSB-1														
Location: VOCATIONAL... Supply From: T-LDSB-1 Mounting: Surface Enclosure: Type 1					Volts: 120/208 Wye Phases: 3 Wires: 4					A.I.C. Rating: 22 KAIC Bus Material: CU Bus Rating: 2000 A MCB Rating / MLO: 2000 A MCB				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	PANEL SP-1	225 A	3	23.23	19.46				PANEL SP-2	2				
3					21.40	19.51				4				
5						21.48	19.38			6				
7	PANEL SP-4	100...	3	94.53	34.15				400 A PANEL SP-5	8				
9					94.35	30.79				10				
11						95.91	32.59			12				
13	PANEL SP-6	400 A	3	20.03	11.04				225 A PANEL SP-7	14				
15					20.57	11.13				16				
17						20.03	9.89			18				
19										20				
21										22				
23										24				
25	SPARE	100 A	3	0.00	0.00				225 A SPARE	26				
27					0.00	0.00				28				
29						0.00	0.00			30				
Phase Load:				202.45 kVA	197.75 kVA	199.28 kVA								
Phase...				1689 A	1647.9 A	1662.6 A								

Notes:  
1. SINGLE SWITCHBOARD SECTION MAIN AND DISTRIBUTION - 48"W MAXIMUM.  
2. 100% RATED MAIN

Branch Panel: EPDP-2														
Location: ELEC CLOSET E246 Supply From: ATS-3 Mounting: Surface Enclosure: Type 1					Volts: 480/277 Wye Phases: 3 Wires: 4					A.I.C. Rating: 18 KAIC Bus Material: CU Bus Rating: 225 A MCB Rating / MLO: 200 A MCB				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	PANEL EP1-1 VIA T-EP1-1	90 A	3	13.45	3.18				PANEL EP3-2 VIA T-EP3-2	2				
3					16.39	3.14				4				
5						11.83	4.17			6				
7	SPD	40 A	3	0.00	3.36				60 A PANEL EP2-2 VIA T-EP2-2	8				
9					0.00	3.28				10				
11						0.00	4.72			12				
13	ELEVATOR CONTROLLER	30 A	3	3.87		3.87				14				
15										16				
17										18				
19										20				
21										22				
23										24				
25										26				
27										28				
29										30				
31										32				
33										34				
35										36				
37	SPARE	40 A	3	0.00	0.00				60 A SPARE	38				
39						0.00	0.00			40				
41										42				
Phase Load:				23.86 kVA	26.68 kVA	24.58 kVA								
Phase...				81.6 A	81.2 A	74.3 A								

Notes:  
1. FUSIBLE PANELBOARD.  
2. MOLDED CASE SWITCH (MCS) MAIN DISCONNECT.  
3. PROVIDE WITH INTEGRAL SPD DEVICE.

Branch Panel: EL3-2														
Location: ELEC CLOSET E246 Supply From: ELDP-2 Mounting: Surface Enclosure: Type 1					Volts: 480/277 Wye Phases: 3 Wires: 4					A.I.C. Rating: 50 KAIC Bus Material: CU Bus Rating: 100 A MCB Rating / MLO: 40 A MCS				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	E. LTG - MEZZ M101	20 A	1	0.17	0.29				20 A E. LTG - MEZZ M106	2				
3	E. LTG - MEZZ M104	20 A	1		0.29	0.23			20 A E. LTG - MEZZ M107	4				
5	E. LTG - MEZZ M106	20 A	1			0.29	0.29		20 A E. LTG - MEZZ M105	6				
7	LIGHTING	20 A	1	0.26	0.25				20 A ART WING EM LIGHTING	8				
9	ELEVATOR LIGHT, TOP OF SHAFT	20 A	1		0.04					10				
11										12				
13										14				
15										16				
17										18				
19										20				
21	SPARE	20 A	1		0.00	0.00			20 A SPARE	22				
23	SPARE	20 A	1		0.00	0.00			20 A SPARE	24				
25	SPARE	20 A	1	0.00	0.00				20 A SPARE	26				
27	SPARE	20 A	1		0.00	0.00			20 A SPARE	28				
29	SPARE	20 A	1		0.00	0.00			20 A SPARE	30				
Phase Load:				0.97 kVA	0.56 kVA	0.58 kVA								
Phase...				3.5 A	2 A	2.1 A								

Notes:  
1. FUSIBLE PANELBOARD.  
2. MOLDED CASE SWITCH (MCS) MAIN DISCONNECT.  
3. PROVIDE WITH INTEGRAL SPD DEVICE.

Branch Panel: EP1-1														
Location: ELEC E137 Supply From: T-EP1-1 Mounting: Surface Enclosure: Type 1					Volts: 120/208 Wye Phases: 3 Wires: 4					A.I.C. Rating: 22 KAIC Bus Material: CU Bus Rating: 225 A MCB Rating / MLO: 150 A MCB				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	RECEPT - IDF E138	20 A	1	0.72	0.07				20 A CUH-2	2				
3	NEMA LB-30R - IDF E138	30 A	2		0.50	0.50			30 A NEMA LB-30R - IDF E138	4				
5					0.50	0.50				6				
7	SHEF-6	35 A	3	2.10	2.10				35 A SHEF-7	8				
9					2.10	2.10				10				
11						2.10	2.10			12				
13	SHEF-8	15 A	3	0.58	0.75				20 A UH-15 TO UH-24	14				
15					0.58	0.72			20 A FATP IN ELECTRIC RM E137	16				
17						0.58	0.36		20 A RACK RECEIPT - IDF E138	18				
19	RACK RECEIPT - E138	20 A	1	0.36	0.36				20 A SECURITY SYSTEM POWER - IDF E138	20				
21	DUST COLLECTOR INTERFACE - E148	20 A	1		1.80	1.80			20 A DC-2 SPARK DETECTION PANEL - E148	22				
23	FO LEVEL PANEL - E120	20 A	1		1.80	1.80			20 A DTP-1 CONTROL PANEL - E101	24				
25	FO LEAK DETECTION PANEL - E120	20 A	1	1.80	1.01				20 A DTP-1 - E101	26				
27	FOTP-1 & 2	20 A	2		0.89	1.80			20 A DTP-2 CONTROL PANEL - E120	28				
29					0.89	1.20			20 A DTP-2 - E120	30				
Phase Load:				13.45 kVA	16.39 kVA	11.83 kVA								
Phase...				114.1 A	138.6 A	98.6 A								

Notes:  
1. FUSIBLE PANELBOARD.  
2. MOLDED CASE SWITCH (MCS) MAIN DISCONNECT.  
3. PROVIDE WITH INTEGRAL SPD DEVICE.

Branch Panel: ELDP-1														
Location: EMERGENCY ELECTRIC... Supply From: ATS-2 Mounting: Surface Enclosure: Type 1					Volts: 480/277 Wye Phases: 3 Wires: 4					A.I.C. Rating: 200 KAIC Bus Material: CU Bus Rating: 225 A MCB Rating / MLO: 200 A FS				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	PANEL EL7-2	40 A	3	1.23	2.24				PANEL EL6-1	2				
3					1.96	3.03				4				
5						0.79	1.78			6				
7	PANEL EL5-1	40 A	3	0.82	0.00				40 A SPD	8				
9					0.71	0.00				10				
11						0.04	0.00			12				
13										14				
15										16				
17										18				
19										20				
21										22				
23										24				
25										26				
27										28				
29										30				
31										32				
33										34				
35										36				
37	SPARE	40 A	3	0.00	0.00				40 A SPARE	38				
39					0.00	0.00				40				
41						0.00	0.00			42				
Phase Load:				4.29 kVA	5.68 kVA	2.59 kVA								
Phase...				16.4 A	21.4 A	9.3 A								

Notes:  
1. FUSIBLE PANELBOARD

Branch Panel: EPH5-1														
Location: BOILER B163 Supply From: EPDP-1 Mounting: Surface Enclosure: Type 1					Volts: 480/277 Wye Phases: 3 Wires: 4					A.I.C. Rating: 10 KAIC Bus Material: CU Bus Rating: 225 A MCB Rating / MLO: 225 A MCB				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	T-EP5-1	100 A	3	15.12	2.10				15 A BHWP-1	2				
3					15.02	2.10				4				
5						13.29	2.10			6				
7	BHWP-2	15 A	3	2.10	2.10				15 A BHWP-3	8				
9					2.10	2.10				10				
11						2.10	2.10			12				
13	B-1	15 A	3	2.10	2.10				15 A B-2	14				
15						2.10	2.10			16				
17							2.10			18				
19	B-3	15 A	3	2.10						20				
21						2.10				22				
23							2.10			24				
25										26				
27										28				
29										30				
31	SPARE	20 A	3	0.00	0.00				20 A SPARE	32				
33						0.00	0.00			34				
35							0.00	0.00		36				
37	SPARE	15 A	3	0.00	0.00				15 A SPARE	38				
39						0.00	0.00			40				
41							0.00	0.00		42				
Phase Load:				22.34 kVA	22.25 kVA	20.59 kVA								
Phase...				81.6 A	81.2 A	74.3 A								

Notes:  
1. FUSIBLE PANELBOARD.  
2. MOLDED CASE SWITCH (MCS) MAIN DISCONNECT.  
3. PROVIDE WITH INTEGRAL SPD DEVICE.

Branch Panel: EL5-1														
Location: EMERGENCY ELECTRIC... Supply From: ELDP-1 Mounting: Surface Enclosure: Type 1					Volts: 480/277 Wye Phases: 3 Wires: 4					A.I.C. Rating: 50 KAIC Bus Material: CU Bus Rating: 100 A MCB Rating / MLO: 40 A MCS				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	KITCHEN OFFICE AREA EM LIGHTING	20 A	1	0.09	0.73				20 A KITCHEN AREA EM LIGHTING	2				
3	FITNESS CENTER A101 EM LIGHTING	20 A	1		0.53	0.19			20 A STAIR 4 S4 EMERGENCY LIGHTING	4				
5						0.04			20 A ELEVATOR PIT LIGHT	6				
7										8				
9										10				
11										12				
13										14				
15										16				
17										18				
19										20				
21	SPARE	20 A	1		0.00	0.00			20 A SPARE	22				
23	SPARE	20 A	1		0.00	0.00			20 A SPARE	24				
25	SPARE	20 A	1	0.00	0.00				20 A SPARE	26				
27	SPARE	20 A	1		0.00	0.00			20 A SPARE	28				
29	SPARE	20 A	1		0.00	0.00			20 A SPARE	30				
Phase Load:				0.82 kVA	0.71 kVA	0.04 kVA								
Phase...				3.3 A	2.9 A	0.1 A								

Notes:  
1. FUSIBLE PANELBOARD.  
2. MOLDED CASE SWITCH (MCS) MAIN DISCONNECT.  
3. PROVIDE WITH INTEGRAL SPD DEVICE.

Branch Panel: EL6-1														
Location: ELEC D120 Supply From: ELDP-1 Mounting: Surface Enclosure: Type 1					Volts: 480/277 Wye Phases: 3 Wires: 4					A.I.C. Rating: 50 KAIC Bus Material: CU Bus Rating: 100 A MCB Rating / MLO: 40 A MCS				
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	1ST FL INTERIOR EM LIGHTING	20 A	1	0.93	0.45				20 A 1ST FL INTERIOR EM LIGHTING	2				
3	E. LTG	20 A	1		0.55	1.80			20 A E. LTG	4				
5	MECHATRONICS EM LIGHTING	20 A	1		0.35	0.68			20 A E. LTG	6				
7	E. LTG	20 A	1	0.18	0.68				20 A STAIR 1, 2 AND 3 EMERGENCY...	8				
9	RAMP B151 CORRIDOR B160 EM...	20 A												

Branch Panel: MEP5-1

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: BOILER B163, supply from: MSB-2, and various circuit details.

Branch Panel: MEP7-2

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: ELEC D221, supply from: MSB-2, and various circuit details.

Branch Panel: MEP8-3

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: MECHANICAL, supply from: MSB-2, and various circuit details.

Branch Panel: LAB1

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: SCIENCE PREP D107, supply from: PP6-1, and various circuit details.

Branch Panel: LAB2

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: SCIENCE PREP D208, supply from: SCP, and various circuit details.

Branch Panel: LAB3

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: SCIENCE PREP D208, supply from: SCP, and various circuit details.

Branch Panel: LAB4

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: SCIENCE PREP D211, supply from: SCP, and various circuit details.

Branch Panel: LAB5

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: SCIENCE PREP D211, supply from: SCP, and various circuit details.

Branch Panel: GPH

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: MECHANICAL G102, supply from: Surface, and various circuit details.

Branch Panel: GPL

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: MECHANICAL G102, supply from: T-GPL, and various circuit details.

Branch Panel: SCP

Table with columns: CKT, Circuit Description, Trip, Poles, A, B, C, Poles, Trip, Circuit Description, CKT. Includes location: ELEC D221, supply from: T-SCP, and various circuit details.

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Table with columns: drawing title, ELECTIONAL PANELBOARDS, STATE OF CONNECTICUT DEPARTMENT OF ADMINISTRATIVE SERVICES, REVISIONS, drawing prepared by, date, project, approved by, drawing no., CAD no., OSGCR project no., E8-1-6.



Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-01	The sunshade element has no definitive design details other than location and extent, and a profile view on the wall sections. EFCO can assume standard EFCO parts and scale the depth on wall sections, if desired. Advise.		08 41 10 08 44 10	Refer to Addendum No.2
ADD-2	2-02	Please confirm that spec 133419 in its entirety is for alternate #2. Please confirm that the base bid requires no work.		13 34 19 Metal Building Systems	The free standing garage building and athletic equipment storage specified in Section 133419 are part of the Alternate #2 and Supplemental Bid No.1
ADD-2	2-03	There appears to be a sink assembly #SS-09, which is not shown on EQ-001 with #SS-4. Can you have the architect provide a Schedule for this Sink Assembly model?	EQ-001		Refer to Addendum No.2
ADD-2	2-04	Nevco Scoreboards Can you please clarify the correct model number for the Baseball and Softball. I did not find an OES model 7928. Also, can you let me know what isintended for the white game captions for the football scoreboard? Is it referring to Home, Guest, Down, and the rest as being white, or the LED digits?		11 68 43.03 Baseball/Softball Scoreboard  11 68 43.06 Multisport Scoreboards	<u>Baseball and softball scoreboards:</u> 7928 is the correct OES Inc. model number. Contact OES directly for product information; it might not be on their website.  <u>Multisport ("Football") scoreboard:</u> LED electronic captions change according to the sport mode, eliminating the need for caption panels.
ADD-2	2-05	Drawing A1-1.2E, Room E232 please provide base type for lockers in that room.	A1-1.2E		Refer to Addendum No.2.
ADD-2	2-06	<u>Equal or Substitution Request: Section 10 14 00, Paragrph 2.3A</u> Request is to substitute two layer acrylic with second surface direct print and tactile copy and raster braille <u>for</u> the thermo-formed tactile plaques that we have specified.		10 14 00 Signage	Provide thermo-formed tactile plaques as specified.
ADD-2	2-07	<u>Equal or Substitution Request: Section 10 14 00, Drawings 401-406</u> Request to substitute 1/4" thick white acrylic standard <u>for</u> 1/8" thick photopolymer backer.		10 14 00.03 Signage - Drawings	1/8" color black, acrylic is acceptable. Refer to forthcoming Addendum.

Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-08	Under section 017700, Final Cleaning, Section B Item 3 and Sections C & D belong to other respective trades and not the final cleaners. Please clarify.		ALL Bid Packages	<p>To clarify division 017700 3.2. Final cleaning, we offer the following.</p> <p>Paragraph 3.2.A of 01 770 General cleaning – cleaning during construction is owned by each individual bid package subcontractor for their work.</p> <p>Paragraph 3.2.B Cleaning is the scope of Final Cleaning BP#23.</p> <p>Paragraph 3.2.C Pest control is owned by General trades BP#06.</p> <p>Paragraph 3.2.D is owned by each bid package subcontractor unless the scope of work for the respective bid package subcontractor directs otherwise for certain items.</p> <p>Paragraph 3.2.E Compliance is owned by each bid package subcontractor for their work.</p> <p>With respect to paragraph 3.2.B sub-paragraphs 1, 2 and 3 of 01 7700 the final cleaning bid package subcontractor shall perform ALL work called for EXCEPT; Paragraph 3.2.B.2.b The portion for “replacement of chipped or broken glass”, this shall be done by contractor that damaged it.</p> <p>Paragraph 3.2.B.2.d the portion for “replacement of filters and cleaning of strain-ers” shall be by the mechanical bid package subcontractor.</p> <p>Paragraph 3.2.B.2.h Final cleaning BP#23 shall perform vacuuming/dusting as noted, all other bid packages subcontractors shall remove the plastic, protection films, or other protection around light fixtures, glass or any other products as re-quired after installation if required or just prior to final cleaning for the Final Clean-ing BP#23.</p> <p>Paragraph 3.2.B.3.a “Clean the site including landscape development areas.....” shall be performed by Site BP#02.</p> <p>Paragraph 3.2.B.3.b “Clean exposed exterior hard surfaces..” the cleaning of all precast shall be by the BP#05 Structural steel &amp; Precast bid package sub-contractor as its required by the work of BP#05 and specification section 03 4500. BP#05 shall final clean all of the precast.</p> <p>Paragraph 3.2.B.3.d “Remove waste and surplus materials...”shall be by each bid package subcontractor.</p> <p>Paragraph 3.2.B.3.e The portion for “replacement of chipped or broken glass”, this shall be done by contractor that damaged it.</p>
ADD-2	2-09	Please clarify for which sub-contractor is to furnish and/or install the pre-cast concrete curb shown on 1/L-502?	1/L-502	Bid Packages: No.2- Sitework No.5 - Structural Steel & Precast Concrete	Precast curb is specified in section 32 16 13. Provided as part of Bid Package No.2 Site scope
ADD-2	2-10	Please clarify for which sub-contractor is to furnish and/or install the pre-cast parking bumper shown on 5/L-502?	5/L-502	Bid Packages: No.2- Sitework No.5 - Structural Steel & Precast Concrete	Precast parking bumpers are specified in section 32 17 13. Provided as part of Bid Package No.2 Site scope
ADD-2	2-11	Please clarify for which sub-contractor is to furnish and/or install the pre-cast concrete seat wall shown on 1/L-504?	1/L-504	Bid Package No.5 Precast Concrete	Provided as part of Bid Package No.5 Structural Steel and Precast Concrete

Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-12	Please clarify for which sub-contractor is to furnish and/or install the block unit and cap shown on 7/L-506?	7/L-506	Bid Packages: No.2- Sitework No.5 - Structural Steel & Precast Concrete	Detail 7/L-506 is an aluminum players bench. Please explain the question.
ADD-2	2-13	Please clarify for which sub-contractor is to furnish and/or install the pre-cast walls at the dug-out location shown on 6/L-506?	6/L-506	Bid Packages: No.2- Sitework No.5 - Structural Steel & Precast Concrete	Precast dougouts are to be provided by site BP#02 as they own the precast concrete dugout spec section.  The specified dugout is a pre-engineered and pre-assembled structure produced by one of the specified manufacturers; including walls, roof and floor.
ADD-2	2-14	Please clarify if there will be any pre-cast walls at the dug-out location for the "Multi-Use Athletic Field" shown on drawing SB1-L-000?	SB1-L-000		Precast dougouts are to be provided by site BP#02 as they own the precast concrete dugout spec section. There are no dugouts in the Supplemental Bid #1. There are four dugouts in the Base Bid (2 at the softball field, and 2 at the baseball field.)
ADD-2	2-15	Drawing A2-1-1/3 West Elevation between grid line 12 and 11.5, panel type V17-176 shows a panel that is 8'-8" +/- in height x 6'-6" in length, followed by a door opening to the left of this panel, then a unidentified precast wall panel left of the door opening.  Panel type V17-176 shown on drawing A3-4-14 shows the panel to be 12' 0" in height x 14'-8" in length with a door opening integrated to this panel, for which will effect panel type H15B-176.  Please clarify which is correct?	A2-1-1 A3-4-14  A3-4-1 A3-2-24		V17-176 is a series of (3) panels that creates an alcove. Please see sheet A3-4-1 and 1/A3-2-24. Panels H15B-176 and V17-176 are not in the same plane thus not creating a conflict. Refer to Addendum No.2
ADD-2	2-16	Drawing A2-2-5/2 Interior Elevation-Gymnasium West, left of grid line 19 or panel type H19-223 has an unidentified wall panel. Please clarify if this panel is to be panel type H19A-71 as shown on drawing A3-4-1?	A2-2-5 A3-4-1		Correct, that panel just to the left of grid 19 is H19A-71. Refer to drawing A3-4-1. Refer to Addendum No.2
ADD-2	2-17	Drawing A2-2-5/2 Interior Elevation-Gymnasium West, Left of grid line 17 or panel H21-308 has an unidentified wall panel. Please provide additional information for this wall panel.	A2-2-5 A3-4-8		This is panel H21B-235 as shown on drawing A3-4-8. Refer to Addendum No.2
ADD-2	2-18	Drawing A2-1-2/3 South Elevation, left of grid D.8 has a panel label as H11-371, drawing A3-4-2 also shows this panel this panel to be H11-371.  At this same location it has a designation of H11A-325, please clarify for which designation is correct?	A2-1-2 A3-4-2		Panel tag H11A-325 is in the wrong location. Should be shown at the top horizontal panel at the left corner near grid line B. Panel H11-371 is correct. Refer to Addendum No.2.

Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-19	Drawing A3-4-1 at Area A, along grid line G has a panel label as H19A-20, for which should be shown on Elevation 2/A2-2-5.  This panel designation is not show at this elevation, please clarify?	A2-2-5 A3-4-1		Refer to Addendum No.2
ADD-2	2-20	Drawing S1-1-2F, along grid line X. There is a precast wall panel and a precast beam, refer to detail R4/S5-2-1. Please provide additional information for why this precast beam is required at this location? Can the precast beams be eliminated, this will allow for the precast wall panels to extend up to top of DT's elevation.	S1-1-2F S5-2-1	Bid Package No.5	The beam is shown to insure aid in the transfer of seismic diaphragm shear loads to the top of the precast shear walls "PW-126" and "PW-127". Drawing "S2-5-1" indicates a shear force of 300 kips to be tranfered from the roof diaphragm to the shear wall.
ADD-2	2-21	Drawing S1-1-2E, note 13 requires a stem anchor system at the bottom of the DT stems, it also states to refer to architectural for location and requirements. Location and requirements are not found on architectural drawings. Please confirm that the location shown on the structural drawings are correct and please provide additional loading requirements at the bottom of the stems.	S1-1-2E	Bid Package No.5	The locations shown on the structural drawings indicate the extent of the slotted inserts. The function of the inserts is to support all hung items above the shop where sound insulation panels are installed at the underside of the precast flanges. Drawing "S0.0.3" indicates a maximum concentrated hung load of 800 pounds. Tributary design dead load is 15 PSF and we do not believe that there are any unusual loads to be hung.
ADD-2	2-22	Please confirm that the DT's are to receive a structural concrete topping and the precast DT's is not to carry and diaphragm plates or steel.		Bid Package No.5	We believe that the structural drawings indicate a 4" minimum concrete topping thickness (tapered to a minimum of 2" for camber). Additional information will be provided to confirm the use of the topping for the diaphragm, in a forthcoming Addendum. Tops of precast elements should be roughened to accept a concrete topping.
ADD-2	2-23	Please confirm that a minimum of 10 trailers spaces will be provided for precast concrete products.			Yes, site bid package subcontractor will accommodate 10 trailers for concrete products and enough trailers spaces as needed for steel products as well.
ADD-2	2-24	Will a bid extension of 3 weeks be allowed to properly coordinate with the structural steel contractor on our complete scope of work bid package?			Refer to Addendum No.2.
ADD-2	2-25	Plumbing Drawing P1-1-UG Area G – ALT.#2 Nothing Shown.	P1-1-UG		The buried cold water and natural gas is shown.
ADD-2	2-26	HVAC Section 230400 – General Conditions for Mechanical Trades Page 1 1.1C Doesn't list Shop Areas as "Instructional Areas" Is the exposed Supply Duct in Room B144 - Mechatronics on M-1-1-MB, Carpentry, Plumbing, HVAC, Electrical and Precision Machining Shops on M1-1-ME and Auto Mech and Auto Collision Shops on M1-1-1MF Single Wall Rectangular or Double Wall Round/Oval as Listed in 233100-HVAC Ducts Page 11 for "Instructional Areas" without Ceilings/Exposed?	M-1-1-MB M1-1-ME M1-1-1MF	23 04 00 23 31 00	Shop Areas as listed are not Instructional Areas; and thus do not need to be double wall ductwork.

Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-27	Specification section 01 50 00 (Article 3.3) K.1 With respect to pest control required by General Trades package can you provide a specific scope that we can price as oppose to our assumptions.		01 50 00	An exterminator to employ measures & practices to prevent rodents from making home at the new facility. It would entail throwing rat traps, sticky pads and or granules around the perimeter when it seems appropriate and prevent infiltration into the building once it is enclosed, in addition to what is specified under 01 7700.
ADD-2	2-28	Regarding General Trades, Bid Package No.58, Is this note referring to the exterior 2" expansion joint systems and spray foam behind it (reference 2/A5-1-1)?		Bid Package No.6 General Trades	General trades owns the work of this item as required by all the contract documents.
ADD-2	2-29	Regarding General Trades, Bid Package No.63: a. Is 078410 1.2 A.2 referring to the firestopping shown on 3/A3-2-10 (as location example) between the slab edge and curtainwall?		Bid Package No.6 General Trades	Item #63 and the scope is clear.
ADD-2	2-30	Regarding General Trades, Bid Package No.67, is this referring to the identification noted in General Note 12 on A1-0-3?		Bid Package No.6 General Trades	Yes
ADD-2	2-31	Due to the lack of capacity in the union fire sprinkler market we are requesting to have the specification waived for the projects CHRO goals, similar to other trade packages. i.e. elevator, roofing and curtainwall.		ALL Bid Packages	We cannot waive the CHRO goals.
ADD-2	2-32	FP3-1-1 detail #1 shows a dust collection system, please provide specifications on type of system required. i.e. wet, dry, pre-action etc.	FP3-1-1		This is a wet system.
ADD-2	2-33	FP1-1-1E has a note to provide dust collector nozzles. Please provide nozzle locations, specifications and quantities.	FP1-1-1E M1-1-ME M5-1-4	23 34 00	Refer to Drawing M1-1-ME, M5-1-4 and related mechanical drawings for locations and Specification Section 233400 for specification of spray nozzle.
ADD-2	2-34	Spec. section 210500 2.6C Pipe Hangers specifies clevis hangers for piping 2" and over. Please confirm that standard UL/FM approved swivel hangers are also approved.		21 05 00	UL/FM approved swivel hangers are an acceptable method along with clevis hangers. (refer to Addendum #2)
ADD-2	2-35	211313 Wet Sprinklers- are flexible sprinkler drops allowed? Please clarify.		21 13 13	Flex heads are allowed.

Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-36	Is there a cost to the subcontractor for use of the CAD / Revit Files for MEP coordination purposes?		ALL Bid Packages	We are using BIM modeling on the project and the HVAC contractor is taking the lead on this process. Refer to Morganti Exhibit E, Article 8 for BIM procedure.  Post-bid period, the Design Team will share Electronic Files at no cost. These files will be for informational purposes only and are not considered part of the Contract Documents. An Electronic Document License Agreement will need to be signed by the Construction Manager and Sub-contractors prior to release of the electronic files.
ADD-2	2-37	Is a temporary standpipe required for construction, if yes please furnish the location or stair number.			No temporary stand pipe is required
ADD-2	2-38	What trade is responsible for fire-caulking and smoke sealing for the fire protection piping? Please advise.			The fire protection bid package subcontractor
ADD-2	2-39	Drawing S0-0-1 shows the seismic design classification as B. Please confirm if correct.			Correct. However refer to Addendum #2. Sprinkler systems shall be seismically braced even though the IBC and ASCE allow them to be exempt.
ADD-2	2-40	Please refer to spec section 321400 – Unit Paving, item 2.1.A.5 – Color and Finish. Please advise as to what color/finish/matrice is required for the project. There's a significant difference in price from standard to custom.		32 14 00 Unit Paving	Refer to Addendum No.2.
ADD-2	2-41	Can you provide details of the moment frame connection expected to be used for the precast column to beam connection?			Design of the moment connection is the responsibility of the precast supplier. It is expected that the connection will require field welding. A sketch with a conceptual connection design will be issued in a forthcoming Addendum.
ADD-2	2-42	S2-5-1 indicates that there is only one moment frame on the 1 line located between M.1 and Q. Can you confirm this is the only moment frame on this line or is the intent to have the entire 1 line a moment frame? Please provide details of frame connections			Precast supplier is to design rigid moment frames to resist the lateral seismic forces (100 kip minimum) shown on drawing "S2-5-1" for Area E as well as applicable gravity loads. It was assumed that most of the columns and beams would be moment connected to resist the required seismic force.
ADD-2	2-43	Details indicate a channel to be cast into the bottom of the double tee stems at certain locations. S0-0-1 does not provide loads for ceiling + hung items, can you provide the loads of what will be hung from these slotted/channel inserts.			See Item 2-21 Response, above.
ADD-2	2-44	Is the diaphragm steel located in the CIP topping over the double tees or in the precast double tees?			The diaphragm steel may be located in the structural topping. See Item 2-22 Response, above.

Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-45	The diaphragm steel is not shown on the drawings can you provide whats required?			A sketch/drawing defining the diaphragm reinforcing steel will be provided in a forthcoming Addendum.
ADD-2	2-46	Detail R4/S5-2-1 show a beam sitting on top of a wall with weld connections to transfer seismic shear forces to the wall. What is the reason for not bringing the wall up to the floor level and transferring the loads directly into the wall?			See Item 2-20 Response, above.
ADD-2	2-47	The double tee detail shown on S2-4-1 shows a 2'-10" double tee. Is a 2'-6" double tee acceptable?			The underside of the precast double tees are exposed to view. Design intent is that all double tees within a room defined by precast bearing walls should be the same depth. It is also expected that the maximum camber of precast elements shall not exceed 2".
ADD-2	2-48	The panel/jointing layout on S2-3-1 will not work as shown. Can the jointing be revised to work within the precast fabricators constraints?			At corridors the design intent is that the wall panels be fabricated to eliminate visible vertical joints. The panel jointing as shown has the A/B horizontal joint located above the main floor corridor ceiling. Horizontal joint B/C is located at the top of precast at the second floor and the C/D joint is above the second floor corridor ceiling.
ADD-2	2-49	How are you eliminating the buckling that will happen at the horizontal joints between the unbraced stacked 8" shearwalls shown on the V and W lines?			At the grids "V" and "W" panel A is laterally stabilized by the precast mezzanines ("S4/S4-2-2"). The top of panel "B" is stabilized by the second floor precast. Our calculations indicate that the use of grouted mechanical connectors between the stacked panels "C" and "D" will provide adequate continuity. A sketch will be provided for typical panel to panel connection in a forthcoming Addendum.
ADD-2	2-50	Scope # 26 states Bid Package #09 is responsible for fire safing penetrations in walls and ceilings. Is this the case or is each trade responsible for their own penetration?		Bid Package No.9 Drywall	Item #26 is one of the items that is in all bid packages scope of work, Yes each trade is responsible for their own penetrations.
ADD-2	2-51	Which trade is responsible for slab edge firesafing?			General Trades package is responsible for this work.
ADD-2	2-52	Scope item #60 states Bid Package 09 is responsible for specification 072 100 1.2 A 2,3 & 5. Which trade is responsible for 4" Semi rigid insulation at curtain wall 1 A3-2-17 typ.			BP#08 Windows is responsible for this work.
ADD-2	2-53	FP1-1-B has a note fire protection provided by hood. Which trade is responsible for the kitchen hood system. Please clarify.	FP1-1-B	Bid Packages 13-Food Services 17-Fire Protection	Refer to FS (Food Services) drawings for kitchen hood fire suppression systems - Bid Package No.13, Food Service.
ADD-2	2-54	Are the City of Milford building department fees waived?		ALL Bid Packages	Yes, unless noted in your scope of work. Some packages will have to pay fees to Milford for this Project for their work.

Addendum	Item	Question / Assumption	DWG REF in Question and/or Answer	SPEC REF in Question and/or Answer	RESPONSE
ADD-2	2-55	Are there any associated CAD fees with signing over the release forms from the Architect to start our 3D coordination?			Post-bid period, the Design Team will share Electronic Files at no cost. These files will be for informational purposes only and are not considered part of the Contract Documents. An Electronic Document License Agreement will need to be signed by the Construction Manager and Sub-contractors prior to release of the electronic files.