MEETING AGENDA - REVISED

Firehouse Sub-Committee

Thursday, April 11, 2024 - 4:30 PM

Zoom

- 1. Chair call the Meeting to Order
- 2. Seating of alternates
- 3. Approval of March 27, 2024 and April 8, 2024 Special Meetings Minutes
- 4. Review of Budget/Timeline Fire Station 340
 - a. Budget review
 - o Update on appliances purchased
 - b. Change Order Log
 - Update on CO-005 Town Manager approved change order
 - c. Project schedule
- 5. Discussion of overhead door installation and potential credit.
- 6. Discussion of potential change order for an additional cabinet and hood over the stove.
- 7. Update on Special Meeting site visit to Stations 140 and 440 on April 8, 2024.
- 8. Adjournment

Join Zoom Meeting

https://us02web.zoom.us/j/82108554979?pwd=eHNXUXJ3SzkrYWZCYkJtd3ZMR0VQdz09

Meeting ID: 821 0855 4979

Passcode: 4112024 One tap mobile

+13052241968,,89283522227#,,,,*20240215# US +13092053325,,89283522227#,,,,*20240215# US

Dial by your location

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MEETING MINUTES

Firehouse Sub-committee

ZOOM Remote Meeting

Special Meeting - March 27, 2024

Members Present:

Colleen Yudichak, Chair, Town Council Member
Jacob Marie, Vice Chair, Town Council Member (arrived at 5:08PM)
Megan Massa, Projects/Grants Manager
Beverly Bellody, Director of Human Services
Brian Foley, Town Manager
Scott Lappen, Director, Public Works
John Littell, Fire Chief/Director of Public Safety

Members Absent: Lisa Hancock, Director of Finance

CHA: Chuck Eaton, Town Engineer/Project Manager

<u>Also Present</u>: Carl Dojan, Assistant Fire Chief, Rob DaBica, Fire Marshal, Peter Gavin, Lawrence Brunoli, Inc.

- 1. Call to Order Ms. Yudichak called the meeting to order at 5:00PM.
- 2. Approval of Meeting Minutes
 - a. February 15, 2024 Regular Meeting Minutes
 - b. February 26, 2024 Special Meeting Minutes

Ms. Bellody motioned to approve the minutes of the February 15th and February 26th meetings.

Ms. Massa seconded the motion.

Discussion: none

A roll call vote was taken. Motion passed unanimously.

[Mr. Marie was not present to vote.]

- 3. Review of Budget/Timeline Fire Station 340
 - a. Review Budget

Ms. Massa noted that since the last Budget Summary, money was transferred for the approved change orders. Additionally, a payment was made to the contractor. Ms. Yudichak asked if the budget for the other two stations is on track from what was expected 4-8 weeks ago. Ms. Massa explained that they do not know what potential change orders may be coming. Currently, a little under \$368K remains in the contingency.

b. Change Order Log

Ms. Massa noted that the Change Order Log was updated to reflect the approval of the three change orders. A couple of electrical change orders are pending but they are still being discussed by the contractor and CHA. They can be discussed at the April 11th meeting if needed.

c. Updated Construction Schedule

Ms. Yudichak asked what the numbers indicate as related to drywall. Mr. Gavin explained that it is the rating of the wall i.e. 1-hour wall, 2-hour wall. Mr. DaBica noted it is required by a code provision. In terms of the schedule, Mr. Gavin noted that Mr. Schmidt feels comfortable with the May 31st date. The overhead doors are scheduled over the next few days. Ms. Massa noted that the sign has gone up and looks great.

4. Discussion of email dated August 22, 2023 "Notice of Delay = Insulated Metal Panels Delayed Delivery"

Mr. Marie commented that the delay was mentioned but was not quantified. Ms. Massa noted that it was included with the paperwork for the final change order for the curb changes and extended overhead.

5. Discussion and vote on recommendation to Town Council to add Carl Dojan as an alternate to the Firehouse Subcommittee

Ms. Yudichak and Mr. Marie discussed with Mr. Foley having Assistant Chief Dojan be an alternate to represent the Tolland Fire Department in case Chief Littell is unavailable.

Mr. Marie motioned to recommend to the Council to add Assistant Chief Carl Dojan as an alternate to the Firehouse Subcommittee.

Mr. Foley seconded the motion.

Discussion: none

A roll call vote was taken. Motion passed unanimously.

6. Discussion of the purchase of kitchen appliances and vote to authorize replacing the Denlar D100 36" pre-engineered range hood, including roof mounted fan, with an over-the-range microwave.

Ms. Massa explained that based on the plans, the town is responsible for purchasing and providing the appliances and the contractor will perform the installation. The town was tasked with purchasing a refrigerator, propane stove, and dishwasher. After discussing it with the fire department, the preference was to install an over-the-range microwave in place of the Ansul hood and to only prepare the wiring and plumbing but not purchase the dishwasher. The revised quote for the over-the-stove microwave, stove, and refrigerator is \$2,200 which would come from contingency.

Ms. Massa explained that the Ansul hood is not required by code, but is included in the plans. The contractor was expecting to provide and install the hood with 12x12 duct work to a roof-mounted fan. Swapping this out would require a small redesign and possible differences in cost. Ms. Massa reached out and learned that there would not be an additional charge unless the microwave needs to be vented. Some concerns included that a microwave would not be ADA accessible over the stove and there have been discussions regarding if a residential hood could be used.

Mr. Eaton explained that when the building was being planned, the Ansul hood was discussed because it is a fire station. A call may come in when personnel are cooking on the stove, and it may be left on. The Ansul hood has a fire extinguisher built in. Ms. Massa added that there is an annual inspection cost for the hood, and she received an estimate from Mr. Eaton for the hood, ductwork, and fan of approximately \$15K. Assistant Chief Dojan commented that they discussed having a commercial hood at Station 140 but does not recall a conversation about a hood at Station 340. Station 340 is a substation, does not warrant a commercial hood, and they did not agree to it. This was not discussed. To say they will not receive a \$15K credit vs. having a residential hood is "ridiculous". He noted that he is speaking as a taxpayer.

Mr. DaBica commented that it needs to be ADA compliant, and an overhead microwave would not be compliant with the code.

Ms. Massa clarified that she believes they are saying that the Ansul hood is not needed. The microwave was an option. They would want something over the stove that vents. Her recommendation, after speaking with the building official, is to have a countertop microwave. Assistant Chief Dojan noted after speaking with the project manager, given the ADA requirements, a microwave over the stove would not be applicable. With the gas stove, a hood ducted to the outside is needed. Mr. DaBica agreed.

Mr. Marie asked if a hood (\$15K) is needed. Ms. Massa explained that the plans have a propane stove with a commercial hood with built-in fire suppression. Such a hood requires annual inspections and ductwork that goes to the roof-mounted fan. The estimated project cost is \$15K. The fire department is suggesting a hood without fire suppression. In speaking with the contractor, she did not see that the town would receive a substantial credit with such a change. Mr. Gavin explained that the Ansul vented system only shows up in elevation for the millwork cabinetry drawings. The final set of plans did not include a hood because it was not in the specs. They would need to work on whether or not a credit is owed if the Ansul system is eliminated. The Subcommittee needs to decide what it would like to do and they will work toward providing it but cost will need to be considered.

Mr. Marie asked if they had a residential hood if the cost would be less than \$15K. Mr. Gavin explained that venting would be an increased cost to the project because it was not in the specs. Mr. Marie asked when a decision would be needed. Mr. Gavin responded if they give him an idea, they can start looking at what it will take to make it happen.

Mr. Foley asked if a hood is needed over the stove. Ms. Massa responded that it is not required by code but is recommended. Mr. DaBica confirmed that it is not required. Mr. Foley noted that every penny saved on the kitchen can be put into the other projects and is in favor of a \$100 fan over the stove with a light if anything. Chief Littell noted that the microwave can go on the countertop. Mr. Marie agreed. Ms. Yudichak confirmed that they would not be charged \$15K. Mr. Gavin commented that standard millwork cabinetry is over the stove and units are available with a light and fan system that vents into the room. They will need to coordinate 120 power above the stove for the hood, but it should not be a problem.

A discussion took place regarding the kitchen appliances. Mr. Eaton recommended separating the hood from the appliances. The hood is included in the contract while the appliances are supplied by the town. He will work with Ms. Massa on a change order to switch out the hood to

one without fire suppression. Mr. Foley noted that he wants a dishwasher, and the town will get the appliances. It has been roughed in with plumbing. He would rather have the dishwasher than pay for a false door to be installed.

In regard to a vote, it was noted that the hood was never included so a vote is not needed to replace it.

7. Adjournment

Mr. Foley to adjourn at 5:47PM. Chief Littell seconded the motion.

Discussion: none

A roll call vote was taken. Motion passed unanimously.

Lisa A. Pascuzzi Firehouse Sub-committee Clerk

MEETING MINUTES

Firehouse Sub-committee Special Meeting Site Walk Station 140/440–April 8th,2024 4:30 PM

Members Present:

Colleen Yudichak, Chair, Town Council Member
Jacob Marie, Vice Chair, Town Council Member
Megan Massa, Projects/Grants Manager
Brian Foley, Town Manager
John Littell, Fire Chief/Director of Public Safety
Members Absent: Lisa Hancock, Director of Finance; Scott Lappen, Director, Public Works;
Bev Bellody, -Director of Human Services

CHA: Chuck Eaton, Town Engineer/Project Manager Also Present Carl Dojan, Assistant Fire Chief, Rob DaBica, Fire Marshal, Jim Paquin, Building Official

1. Call to Order—Ms. Yudichak called the meeting to order at 4:34 PM. To discuss TFD priorities for stations 140 and 440. 140, 64 Crystal Lake Road.

Assistant Fire Chief Carl Dojan provided an overview of station numbers 140 and 440. The items discussed were the prioritized items provided by TFD leadership to the Firehouse subcommittee back in the February 15th, 2024 meetin.

These priorities would be paid for with the remaining funds from the current project station 340- 247 Gehring Road- on June 30, 2023—Tolland was awarded \$1,000,000 towards the Fire Station Projects by CT Bond. The balance from station 340 and the awared bond will help pay priorities for both stations 140 and 440.

Station 140 Priorities Overview:

Foundation, Bay Additions, Updated HVAC, and Apparatus Bay Replacement. The subcommittee did a walkaround inside and outside of Station 140.

- 2.) Motion for Recess at 5:00 PM by Jaco Marie seconded by Brian Foley, motioned passed unanimously
- 3.)Returned from session at 5:18 PM Station 440 107 Plains Road <u>Station 440 107 Priorities-Overview</u>

Items discussed: Roofing Replacement, Repoint Massonary, Apparatus Bay Slab replacement The subcommittee did a walk around inside and outside of station 440.

Megan Masa seconded the motion to adjourn at 6:00 PM by Brian Foley, and the motion passed unanimously.

Submitted by: Colleen Yudichak- Chair of Fire House Sub-committee

- Review of Budget/Timeline Fire Station 340
 Budget review

Fire Station 340 Budget Summary

Updated: 4/10/2024

Expense Accounts

Munis	Line		riginal Budgat	Λ.	divisted Budget		Snont	E.	ncumbrances	Δ.,,	ailable Budget
Account	Line	U	riginal Budget	A	djusted Budget		Spent	Spent Encumbrances A		Ava	allable Budget
722420	Architectural Engineering	\$	232,415.00	\$	241,415.00	\$	226,616.68	\$	14,798.32	\$	-
722440	Building Contractor	\$	2,257,000.00	\$	2,332,225.60	\$	1,708,070.55	\$	624,155.05	\$	-
722460	Testing & Inspections	\$	9,621.33	\$	9,621.33	\$	9,621.33	\$	-	\$	-
722495	Contingency	\$	451,400.73	\$	363,137.37	ı		\$	-	\$	363,137.37
722480	Bonding/Legal Costs	\$	72,268.00	\$	72,268.00	\$	-	\$	-	\$	72,268.00
722497	Insurance/Builders Risk	\$	4,000.00	\$	4,982.00	\$	2,491.00	\$	-	\$	2,491.00
722410	Advertising	\$	572.94	\$	572.94	\$	572.94	\$	-	\$	-
733330	Misc. Reimbursables	\$	-	\$	655.00	\$	655.00	\$	-	\$	-
744600	Other Equipment	\$	-	\$	2,400.76	\$	-	\$	-	\$	2,400.76
	Total	\$	3,029,678.76	\$	3,027,278.00	\$	1,948,027.50	\$	638,953.37	\$	437,896.37

Change Orders Log

Number	Date	Amount	Transfer to Account	Description
CO-001	8/2/2023	\$ 3,680.00	722440 - Building Contractor	Well Pump
CO-002	3/4/2024	\$ 39,134.00	722440 - Building Contractor	Foundation changes
CO-002	3/4/2024	\$ 25,000.00	722440 - Building Contractor	Extended Overhead
CO-003	3/4/2024	\$ 3,588.00	722440 - Building Contractor	Plymovent Fan
CO-004	3/4/2024	\$ 1,479.90	722440 - Building Contractor	Sewer riser
CO-005	4/10/2024	\$ 2,343.70	722440 - Building Contractor	(2) Plymovent Hoses
		\$ 75,225.60		

Potential Change Orders Approved by the Subcommittee

Number	Date	Amount	Transfer to Account	Description

- 4. Review of Budget/Timeline Fire Station 340a. Change Order Log
 - - o Update on CO-005 Town Manager approved change order

LAWRENCE BRUNOLI, INC. GENERAL CONTRACTORS www.bauscl.com U.S Small Business Administration Administrator's Assurd for Excellence

Change Order Log

Chang	e Ciue	Log							
Tolland F	ire Depar	tment, Replac	ement of Stat	tion 340		•			
LBI COP#	Owner C.O.	Initiator	Date Initiated	Description	Date Submitted/Approved	Submitted	Time (Cal. Days)	Approved	In Court
Potentia	l Change	Orders							
PCO-001		Email	02/15/23	Unforeseen Condition - Existing Foundation Walls 8'					
PCO-002	COP-003	RFI-002	03/10/23	Add Concrete Curb at Perimeter to Raise Metal Panel Above Finish Grade					
PCO-003		Email	04/18/23	Changes to Foundation Footings					
PCO-004	COP-004	Email	05/01/23	Electric Meter Location Change					
PCO-005		RFI-005	05/08/23	Modify Footings on Column Line 5					
PCO-008		Email	10/17/23	Add Precast Riser & Sewer Frame and Cover at Distribution Box					
PCO-009		Email	10/18/23	Changes to Grade Beam Design to Accommodate 4" Drain Line					
Void:									
PCO-006		Submit. 22	06/13/23	Switchgear Acceleration - 40 Weeks to 12 Weeks \$6,500	06/13/23	\$ 6,500.00			
PCO-007		Email	05/24/23	Overhead Doors - Custom Color & Special Backup Lights	06/19/23	\$ 22,627.00			
COP-010	VOID	Email	02/05/24	Add Snow Guards					
Change	Orders S	Submitted:							
COP-002		Submit. Review	06/13/23	Drawing Revision No. 2 dated 4.24.23 - Owner Electrical Changes	06/13/23	\$ 18,459.25			LBI
COP-004		PCO-004	05/01/23	Electrical Meter Relocation - Increased Secondary Length of Run	08/30/23	\$ 8,334,41			Owner
COP-005		Submit. Review	08/30/23	Drawings Revision No. 3 dated 5.12.23 - Owner Electrical Changes	08/30/23	\$ (4,920.07)			LBI
				g to the second		, ,,,,,,,			
					•	\$ 21,873.59			
Approve	d/Fully E	Executed:							
COP-001		Field Observ.	05/17/23	Well Water Equipment Replacement Proposal	07/28/23			\$ 3,680.00	
COP-003		PCO-002	03/10/23	Add Concrete Curb at Perimeter to Raise Metal Panel Above Finish Grade - Direct	03/21/24		77.00	\$ 64,134.00	
COP-003.1		PCO-002	03/10/23	Add Concrete Curb at Perimeter to Raise Metal Panel Above Finish Grade - Extended OH	03/21/24				
COP-008	1	Email	10/17/23	Add Precast Riser & Sewer Frame and Cover at Distribution Box	03/21/24			\$ 1,479.90	
COP-011		Email	01/25/24	Plymovent System - Add New Exhaust Fan	03/21/24			\$ 3,588.00	
COP-011		Email	04/03/24	Plymovent System - Add 2 New Hoses	04/03/24			\$ 2,343.70	
				· · · · · · · · · · · · · · · · · · · 	*			\$ 75,225,60	

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Change Order

PROJECT: (Name and address) Tolland Fire Department Replacement of Fire Stations 340 and 440

Holland, CT

OWNER Warrie and add Town of Tolland 21 Tolland Green, Tolland CT CONTRACT INFORMATION:

Contract For: General Construction

Date: January 3, 2023

ARCHITECT: (Name and address)

400 Capital BLVD, Rocky Hill, CT

CHANGE ORDER INFORMATION:

Change Order Number: 005

Date: April 5, 2024

CONTRACTOR: (Name and address)

2.257,000.00

2,328,402.00

2,330,745.70

71,402.00

2,343.70

Lawrence Brunoli, Inc

11 Eastview Drive, Farmington, CT

THE CONTRACT IS CHANGED AS FOLLOWS:

Ansert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

the age and determinated condition of the salvaged Plymovent Vent Hoses, the two salvaged hoses will be replaced. See attached Breakdown of equipment and costs.

The original Contract Sum was The net change by previously authorized Change Orders The Contract Sum prior to this Change Order was The Contract Sum will be increased by this Change Order in the amount of The new Contract Sum including this Change Order will be

he Contract Time will be increased by Zero (0) days. The new date of Substantial Completion will be May 31, 2024

E: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract The sthat have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

VILLSIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

ARCHITECT (Firm name)

Charles Eaton, Sr Project Manager

PRINTED NAME AND TITLE April 8:2004

Lawrence Brunoli, Inc.

CONTRACTOR (Firm name)

SIGNATURE

Peter Gavin, PM

PRINTED NAME AND TITLE

April 9, 2024

DATE

Town of Tolland

Brian Foley, Town Manager PRINTED NAME AND TITLE

2024

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CHANGE ORDER PROPOSAL WORKSHEET

Change Order Proposal No.:

COP-012

Date:

4/3/2024

Company:

Lawrence Brunoli, Inc.
Company Name (Typed)

Owner:

Town of Tolland

Project Name:

Replacement of Fire Station 340

Plymovent System - Add Two New Hoses

Quant.	Unit Description of Material and Equipment	Unit Cost	Total
.ine #1	Material Subtotal		\$0.00

No. of Workers	Labor Classification	Hours	Base Rate	Tax	Fringe	Pension	Misc. Ins. & Comp.	Total Rate	Total
ine #2	Labor Subtotal								\$0.

Line #3	Total Labor and Materials	\$	- 1

Line #4 Amt.	Overhead and Profit % Mark-up on Own Work	Allow %	Applicable %	Total
	\$0.00 to \$5,000	15%	15%	\$ -
	\$5,001 to \$15,000	15%	15%	\$
	\$15,001 to \$25,000	15%	15%	\$ -
	\$25,000 and Greater	15%	15%	\$ -
Line #5	Total Mark-up on Contractor's Own Work (15%)			\$ -

Trade	Name of Subcontractor		Total		
HVAC	Air Cleaning Specialists of New England	\$	2,038.00		
			\$	-	
			\$	•	
Line #6	Subcontractor Total		\$	2,038.00	
Line #7	General Contractor's Mark-up on Subcontractor Work	15%	\$	305.70	
Line #8	Bond Cost	0.00563	\$		
Line #8.1	Extended Overhead	t.b.d.	\$	-	
Line #9	Total Proposed Change Order Amount		\$	2,343.70	



1525 Hanover Street Hanover, MA 02339 Phone 781-826-9755 Fax 781-829-0240

3 1 UX

1-829-0240 www.aircleaningspecialistsne.com

of New England LLC

PROPOSAL

DATE:	April 4 th , 2024			
TO:	Lawrence Brunoli, Inc			
A CECESS I	D. C.	DI .	EAT	
ATTN:	Peter Gavin	Phone	FAX:	

REF: Tolland CT. Fire Station

Replace Two (2) 4" x25' Yellow and Black Plymovent Hoses with airline

Hose # 00000116331, 4" x 25' \$894.00 each x (2) = \$1788.00

Labor: \$250.00

Proposed By: Tom Perry
Project Manager

Accepted By:

Megan Massa

Subject: FW: [EXTERNAL]New Fire Station, Plymovent

From: tperry@aircleaningne.com <tperry@aircleaningne.com>

Sent: Friday, March 22, 2024 10:31 AM **To:** John Littell jlittell@Tollandct.gov

Subject: [EXTERNAL]New Fire Station, Plymovent

Good morning Chief Littell. It's been a while. I hope you and yours are well.

As you probably already know, we have installed the one New Plymovent and re-installed the older two Plymovents at your new Fire Station.

The two older hoses are in rough shape and are too short. My suggestion is to replace the two hoses.

25' of Hose is \$894.00 each.

Please let me know if you want to go with the new hoses.

Thank you, Tom

4. Review of Budget/Timeline – Fire Station 340c. Project schedule

April

2024

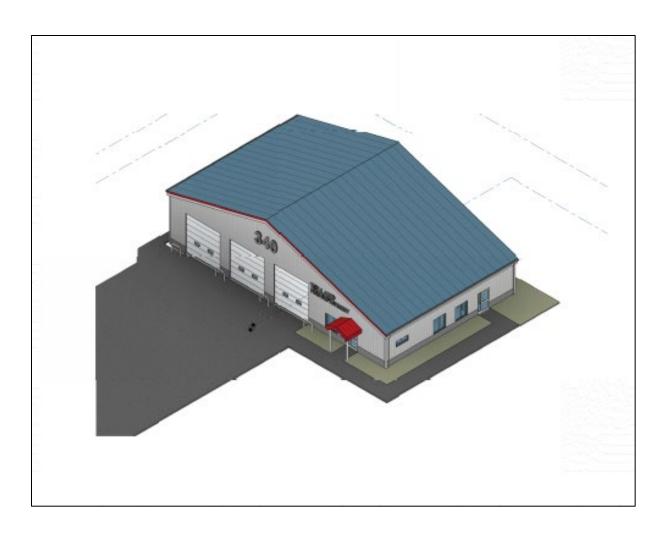
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4		6
7	8	9 CFMF-Recess Soffit) DW DWF Elec Rough Shower Stall Delivery	CFMF (Mech/Elec) DW-Recess Soffit DWF Elec Rough Mech Insulation Pipe Insulation	DW 2-Hr Wall Kitchen DWF Elec Rough Mech Rough Inspection - Mech	DW 2-Hr Wall Kitchen DWF-FT-Kitchen Smoke Seal-Kitchen Elec Rough Mech Rough Pipe Insulation	13
14	CFMF (Kitchen Soffit) DW 1-Hr Wall Janitor DWF Smoke Seal-Corridors Elec Rough Mech Rough	DW 2-Hr Wall (Office) DWF-FT-Janitor Smoke Seal-Janitor Smoke Seal-Office Elec Rough Mech Rough	CFMF (Janitor Ceiling) DW 2-Hr Wall (Office) DWF Elec Rough Mech Rough	DW 1-Hr Wall Mech/Elec Smoke Seal-Mech/Elec DWF-FT-Mech/Elec Elec Rough Mech Rough	DW Restrooms DWF-FT-Office Elec Rough Mech Rough	20
21	DW Restrooms DWF Hollow Metal Doorframes DWF	DWF Hollow Metal Doors Painting	DWF Glass Painting	DWF Glass Painting	DWF Painting	27
28	DWF Painting	DWF Painting			Page 17 of	27

May

2024

Sunday	Monday	Tuesday	Wednesday		Thursday	Friday	Saturday
			Painting Wainscoat Restrooms Banner Water	1	Painting Wainscoat Restrooms	Painting 3	4
5	6 Painting Ceiling Grid	7 Painting Ceiling Grid	Painting MEP in Ceiling Grid MEP – Fixtures / Trim	8	9 Painting MEP in Ceiling Grid MEP – Fixtures / Trim	Painting MEP in Ceiling Grid MEP – Fixtures / Trim	11
12	13 MEP in Ceiling Grid MEP – Fixtures / Trim Flooring	14 MEP in Ceiling Grid MEP – Fixtures / Trim Flooring	Inspection – Above ATC Flooring Restroom Accessories	15	Flooring Ceiling Pads Restroom Accessories	Flooring Ceiling Pads	18
19	20 Millwork Signage Doors and Hardware	21 Millwork Signage Doors and Hardware	Millwork Doors and Hardware Systems Startup / Testing	22	Inspection -Finals Systems Startup / Testing	24 Landscaping Systems Startup / Testing	25
26	27 Landscaping	28 Landscaping	Landscaping	29	30 Punch List	91 Punch List Substantial Complete	
						Page 18	3 of 27

5.	Discussion of overhead door installation and potential credit.	







Discussion of potent hood over the stove	tial change order for an additional cabinet and
nood over the stove	•

Megan Massa

From: Megan Massa

Sent: Thursday, March 28, 2024 2:26 PM

To: 'Eaton, Chuck'

Cc: Brian Foley; Colleen Yudichak; Jacob Marie; Jim Paquin

Subject: FS340 - Hood shown on plans

Attachments: Pages from Permit Set - Transmitted to Tolland 4.19.23-2.pdf

Importance: High

Hi Chuck,

I would like the contractor to respond formally on providing the Town a credit for the hood. The Building Official and I have reviewed the plans the contractor has submitted to the Town. The hood is Ansul hood is shown and called out on 3 pages of the plan, including the Electrical plan. Peter is correct, it is not shown on his mechanical plan, but I feel this is his error. There are enough mentions of the Ansul hood within his architect's construction drawings, as submitted for the building permit, that indicate Peter was aware the Ansul hood was part of the project scope. If he was unclear, he should have sent an RFI. Additionally, the Building Official noted that the mechanical page set starts with number M101, and he believes a mechanical drawing page (M100) has been omitted from the final permit set. I have attached the pages from LBI's permit set that show the hood, for reference.

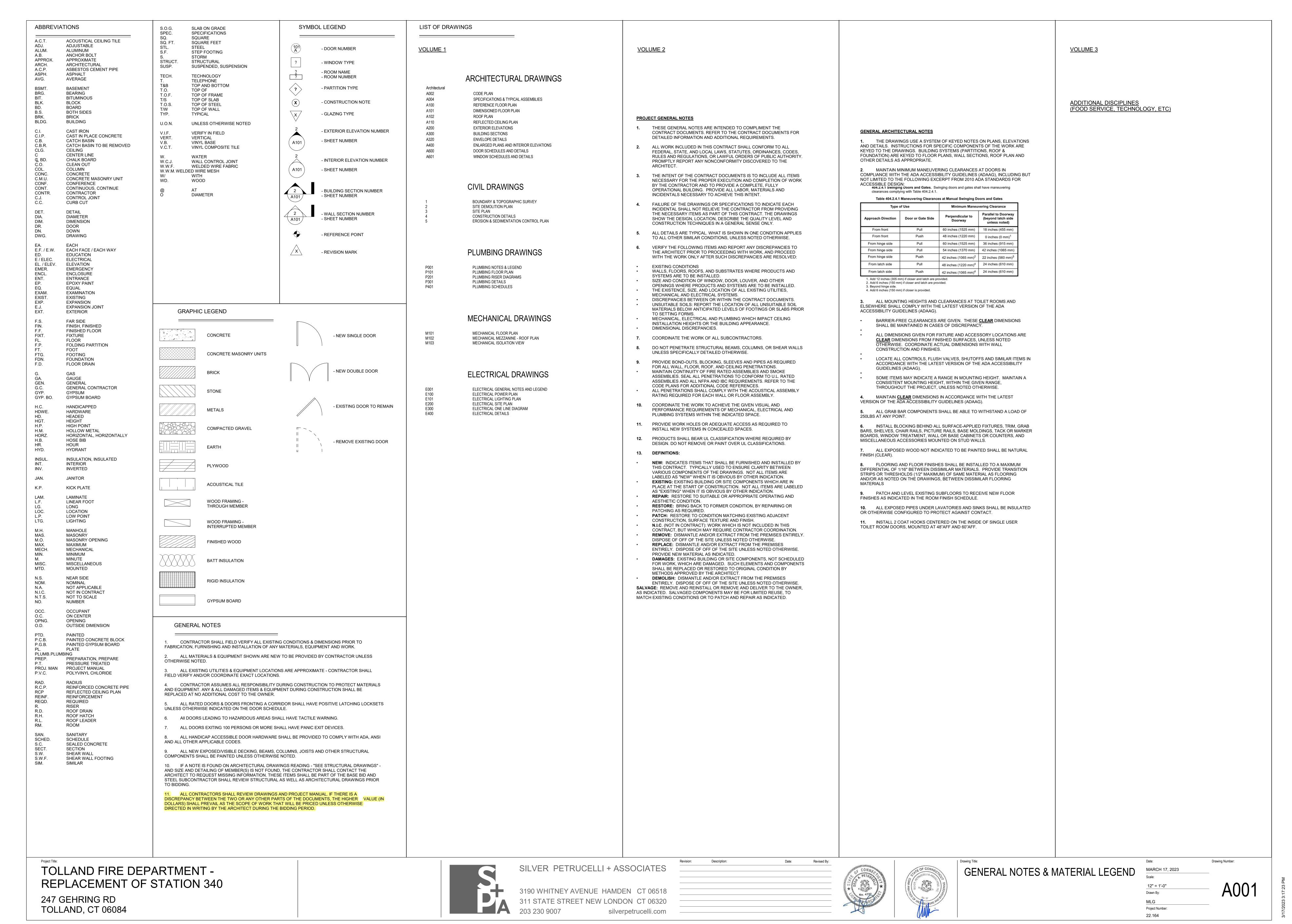
I would also like to draw your/Peter's attention to the General Note #11 on A001 (page 1 of the attached): "ALL CONTRACTORS SHALL REVIEW DRAWINGS AND PROJECT MANUAL. IF THERE IS A DISCREPANCY BETWEEN THE TWO OR ANY OTHER PARTS OF THE DOCUMENTS, THE HIGHER VALUE (IN DOLLARS) SHALL PREVAIL AS THE SCOPE OF WORK THAT WILL BE PRICED UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT DURING THE BIDDING PERIOD."

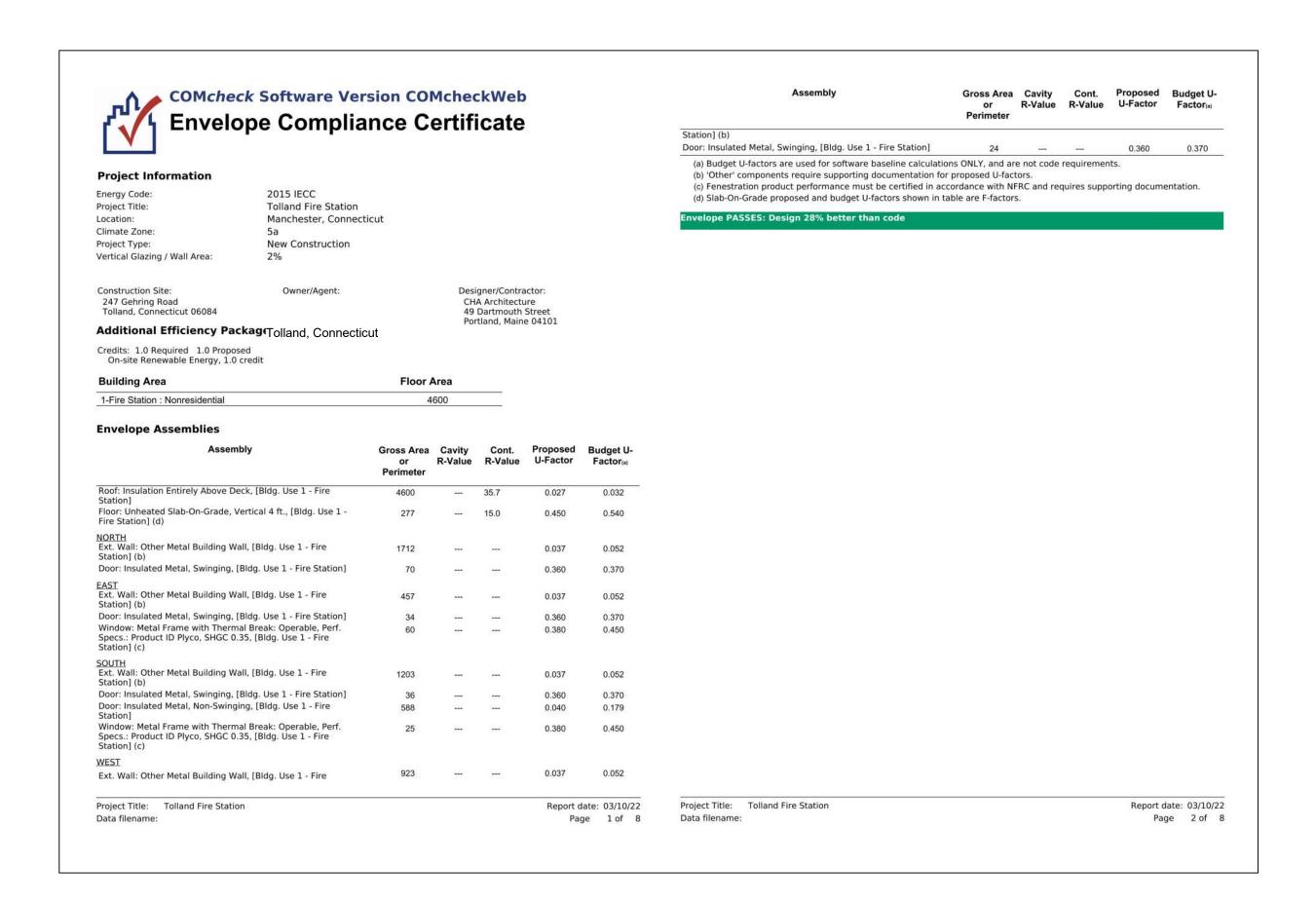
I appreciate your assistance with this matter.

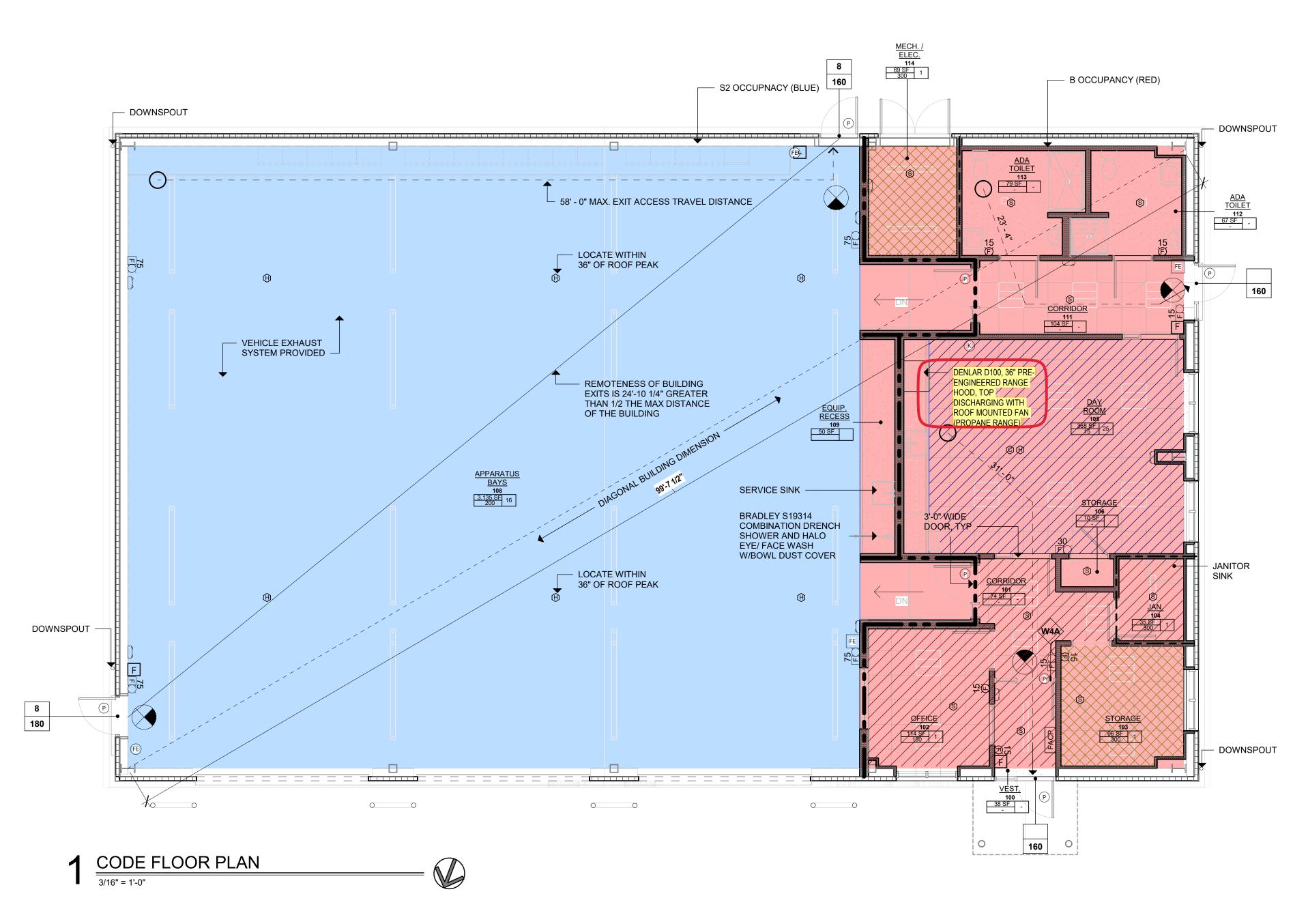
Thanks,

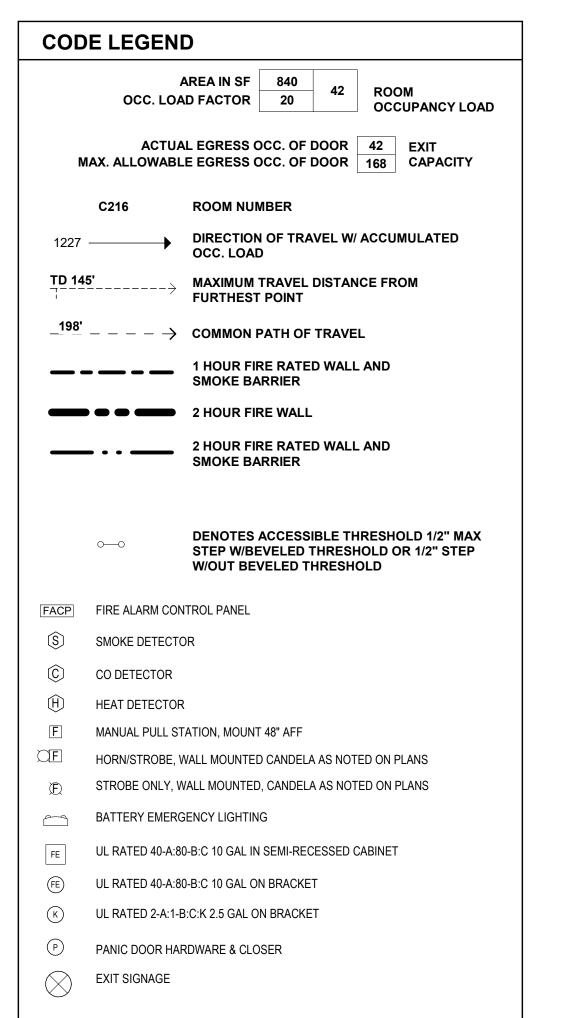
Megan Massa Projects and Grants Manager Town of Tolland

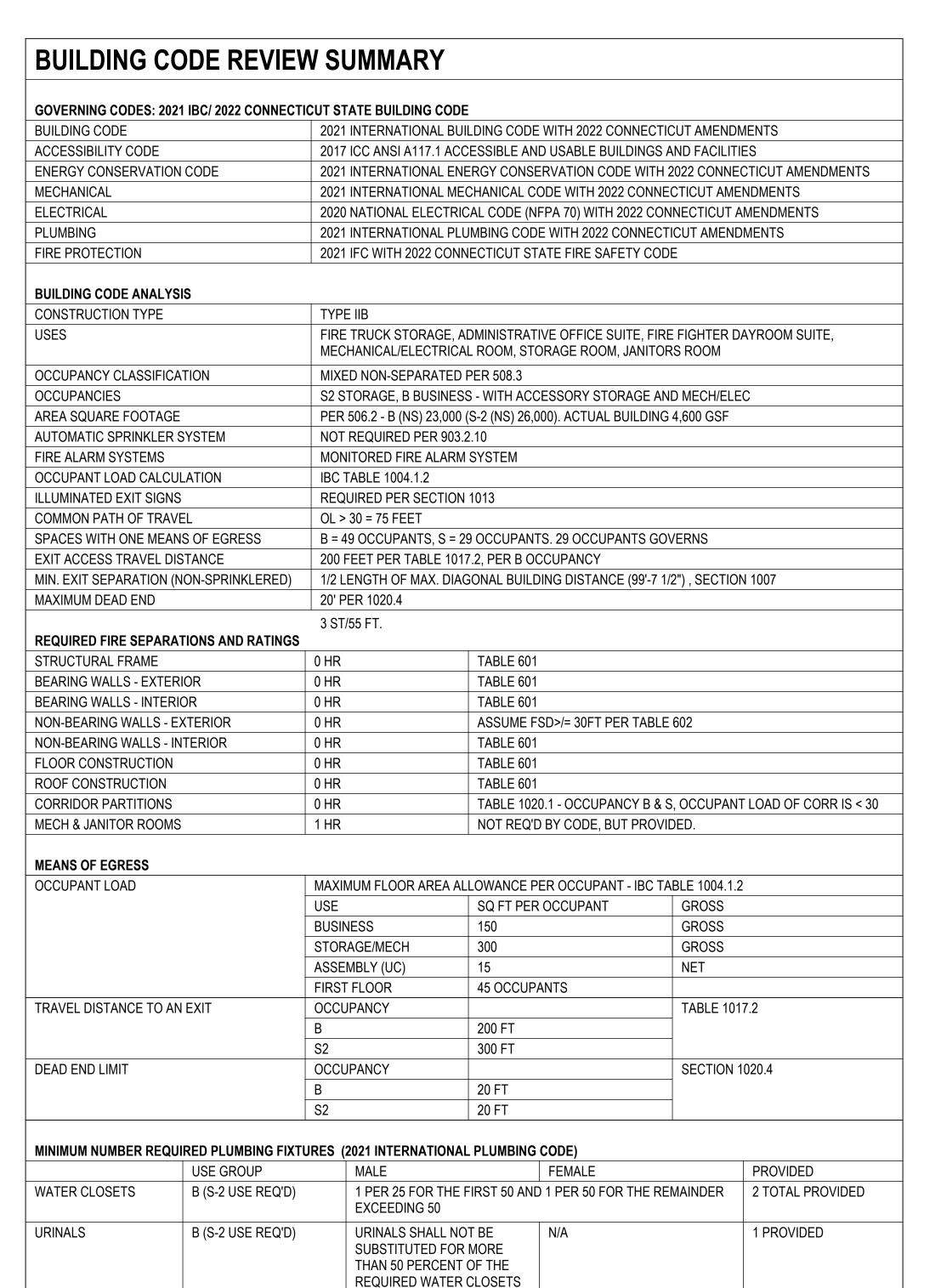
Direct: 860-871-3605 Fax: 860-871-3663 mmassa@tollandct.gov











FOR CODE CONFORMANCE REVIEW, NOT CONSTRUCTION

EXCEEDING 80

1 SERVICE SINK

1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER 2 TOTAL PROVIDED

PER AMENDED SECTION 29; BOTTLED WATER IS PROVIDED FOR

THE EMPLOYEES AND VISITORS IN LIEU OF DRINKING FOUNTAINS.

TOLLAND FIRE DEPARTMENT REPLACEMENT OF STATION 340
247 GEHRING RD
TOLLAND, CT 06084



SILVER PETRUCELLI + ASSOCIATES

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LAVATORIES

OTHER

B (S-2 USE REQ'D)

B (S-2 USE REQ'D)

DRINKING FOUNTAINS | B (S-2 USE REQ'D)

CODE PLAN

Date:

MARCH 17, 2023

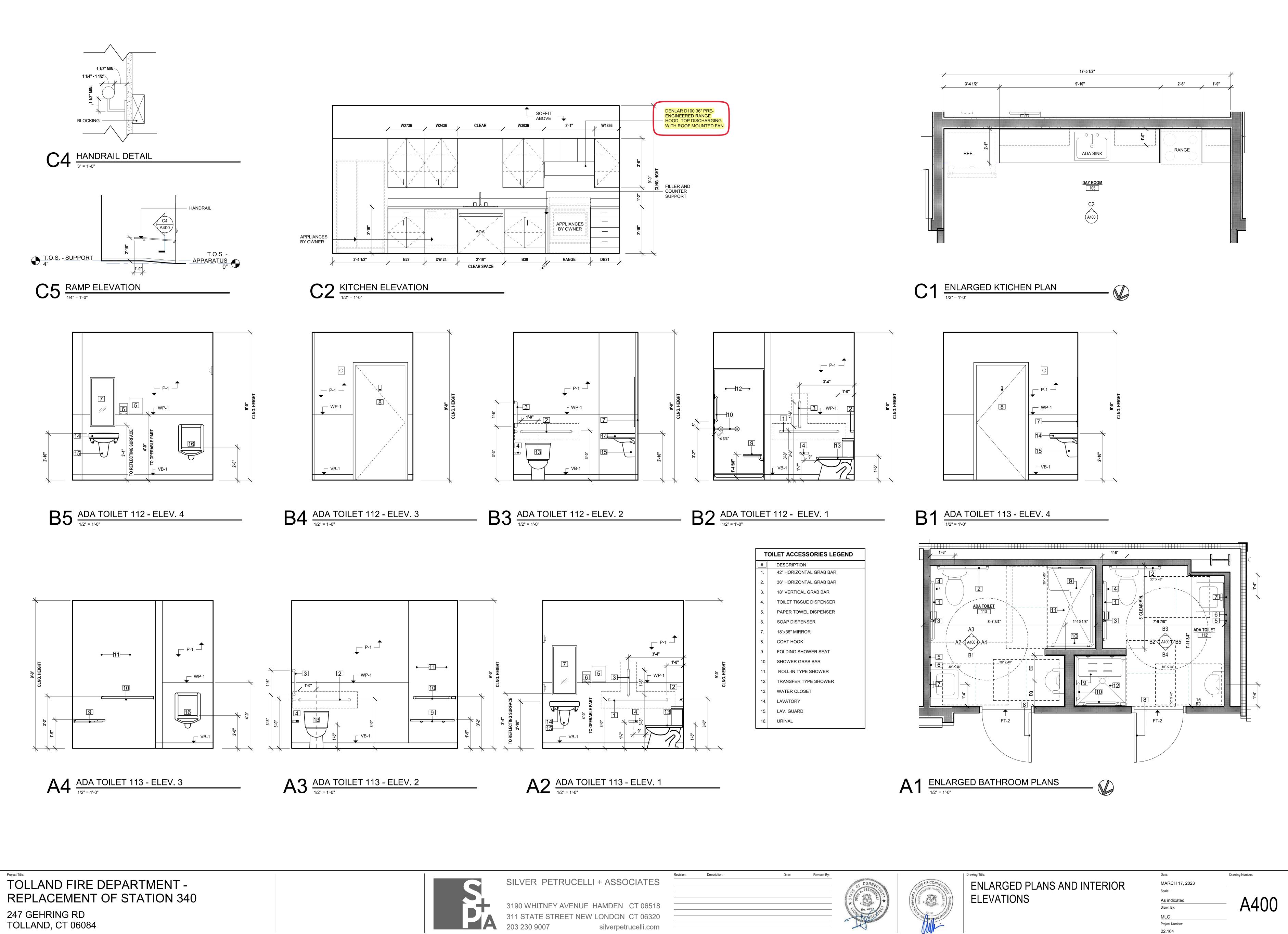
Scale:

As indicated
Drawn By:

MLG
Project Number:

22.164

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GENERAL NOTES

<u>GENERAI</u>

1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

2. ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

3. REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.

4. ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT.

ON NORMAL NECA COMMERCIAL LABOR UNITS & NATIONAL AVERAGE
MATERIAL AMP MATERIAL COST PRICES; NATIONAL AVERAGE AMP DATA
BASE FOR MATERIAL AND NECA LABOR RATES MUST BE SUBMITTED TO
THE ENGINEER OF RECORD AT THE TIME OF AWARD.

WIRING & RACEWAY:

1. THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT. RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.

2. ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

3. LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE; COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WITH "OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT RIGHT FOR HORIZONTAL MOUNTING.

4. LOCATE AND INSTALL ELECTRICAL EQUIPMENT, JUNCTION AND PULL BOXES, PANELBOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.

RACEWAY INSTALLATION:

1. IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.

2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT PROJECT REQUIREMENTS AND FIELD CONDITIONS.

3. PROVIDE SEPARATE RACEWAYS, JUNCTION BOXES, PULL BOXES AND WIREWAYS FOR ALL EMERGENCY SYSTEM WIRING.

4. CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH UL LISTED FIRE STOPPING SEALANT WHERE REQUIRED.

ELECTRICAL CONDUITS AND BOXES TO BE CONCEALED IN WALLS OR ABOVE CEILING WHEREVER POSSIBLE. WHERE SURFACE CONDUIT IS REQUIRED IT MUST MATCH THE WALL COLOR THAT IT IS BEING ATTACHED TO: REFER TO RACEWAY & BOX SPECIFICATION FOR FURTHER DETAILS.

WIRING INSTALLATION:

1. DO NOT USE WIRE SMALLER THAN NO. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS:

30 AMPERE CIRCUIT: NO. 10 40 AMPERE CIRCUIT: NO. 8 50 AMPERE CIRCUIT: NO. 6 60 AMPERE CIRCUIT: NO. 6

A. MINIMUM HOMERUN AND BRANCH CIRCUIT WIRING SIZES AND MAXIMUM HOMERUN CONDUIT FILL FOR 120 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

<u>CIRCUIT</u> <u>HOME RUN</u> <u>CONDUIT SIZE</u> LENGTH WIRE SIZE WIRE SIZE (8 WIRES/CONDUIT)

0' TO 50' #12 #12 3/4" 51' TO 100' #12 #10 3/4" 101' TO 200' #10 #8 1"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT.

NOTE:PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

 DO NOT USE WIRE SMALLER THAN NO. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS, AND SO APPROVED BY THE ARCHITECT.

3. WHERE GREATER THAN THREE (3) CURRENT-CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310.

4. CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.

5. UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.

6. THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS AT PANELS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:

A. LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS

GROUNDING INSTALLATION:

EQUIPMENT GROUNDING

A. INSTALL AN INSULATED GROUND CONDUCTOR, RUN IN THE RACEWAY WITH THE PHASE CONDUCTORS, FOR EACH FEEDER SERVING: PANELBOARDS, LIGHTING DIMMER BOARDS, MOTOR CONTROL CENTERS, MOTORS, EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED.

B. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.

C. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.

RACEWAYS FOR TELECOMMUNICATION SYSTEMS:

1. PROVIDE EMPTY CONDUIT SYSTEMS FOR TELECOMMUNICATION WORK, REFER TO "T" SERIES DRAWINGS FOR SIZE OF CONDUIT AND BACK BOXES REQUIRED.

2. PROVIDE MINIMUM INSIDE BENDING RADIUS OF 10 TIMES CONDUIT INSIDE DIAMETER FOR TELECOMMUNICATIONS RACEWAYS.

3. WHEN COMPLETED THE CONDUIT SYSTEMS SHALL BE READY FOR THE INSTALLATION OF WIRING AND EQUIPMENT.

4. FROM EACH OUTLET PROVIDE AN EMPTY EMT CONDUIT ROUTED INTO THE CEILING CAVITY OR TO THE CLOSEST TELECOMMUNICATIONS CLOSET. PROVIDE A DRAG LINE IN EACH RUN AND TERMINATE IN A BUSHED

MECHANICAL EQUIPMENT WIRING:

1. UNLESS OTHERWISE INDICATED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED AND INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.

2. POWER WIRING FROM THE INDICATED SOURCE TO THE STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED LUGS, TERMINALS, AND CONNECTIONS, IS THE WORK OF THIS DIVISION.

3. CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON

ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION.

4. PROVIDE 120 VOLT POWER TO ALL TEMPERATURE CONTROL PANELS (TCP'S) SUPPLIED AND INSTALLED BY DIVISION 23. USE EMERGENCY POWER SOURCES WHEN AVAILABLE. COORDINATE ALL POWER REQUIREMENTS AND PANEL LOCATIONS WITH DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR.

5. COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' INSTRUCTIONS.

COORDINATION DRAWINGS:

1. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS

B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

-MECHANICAL SHEET METAL
-PLUMBING PIPING
-MECHANICAL PIPING
-SPRINKLER PIPING
-ELECTRICAL WORK

2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

3. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.

5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL

AS BUILT DRAWINGS

1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND

CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

 PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:

A. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP

B. DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.

C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

D. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

E. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

F. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.

G. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

ELECTRICAL LEGEND

(NOT ALL SYMBOLS ARE USED)

DISTRIBUTION PANEL, 480/277 VOLT OR 120/208 VOLT

ELECTRICAL PANEL, 480/277 VOLT

ELECTRICAL PANEL, 120/208 VOLT

PANELBOARD FLUSH MOUNTED

PANELBOARD SURFACE MOUNTED

□J NON-FUSED DISCONNECT SWITCH

 \bigcirc

FUSED DISCONNECT SWITCH

MOTOR STARTER, COORDINATE EXACT REQUIREMENTS WITH MOTOR FURNISHED

WALL MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

CEILING MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

FLOOR MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

TYPICAL RECESSED/SURFACE MOUNTED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

RECESSED/SURFACE MOUNTED LIGHT FIXTURE WITH EMERGENCY BATTERY UNIT

SURFACE MOUNTED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

RECESSED DOWN LIGHT FIXTURE WITH EMERGENCY BATTERY UNIT

WALL MOUNTED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

WALL MOUNTED LIGHT FIXTURE WITH EMERGENCY BATTERY UNIT

DOUBLE FACE EXIT SIGN

TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY FOR 90 MINUTE EMERGENCY LIGHTING

CEILING/WALL/END MOUNTED EXIT SIGN, SHADING INDICATES DIRECTION OF FIXTURE FACE, ARROW

INDICATES DIRECTION OF CHEVRON, PROVIDE UNSWITCHED POWER FROM AREA LIGHTING CIRCUIT

\$ SINGLE POLE SWITCH; MOUNT AT 48" AFF

3-WAY SWITCH; MOUNT AT 48" AFF

\$__ 4-WAY SWITCH; MOUNT AT 48" AFF

DIMMER SWITCH

TIME DELAY SWITCH

DUPLEX RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

DUAL TECHNOLOGY, MOTION SENSOR SWITCH; MOUNT AT 48" AFF

SINGLE RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

QUAD RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

SPLIT-WIRED DUPLEX RECEPTACLE (HALF SWITCHED AND HALF CONSTANT "ON"); MOUNT AT 18" AFF

UNLESS OTHERWISE SPECIFIED

ABOVE COUNTER TO BOTTOM OF DEVICE, OR 48" TO CENTER OF

OUTLET NOT LOCATED ABOVE A COUNTER UNLESS OTHERWISE SPECIFIED

RECEPTACLE WITH OUTDOOR RATED "IN-USE" COVER PLATE, PROVIDE FLUSH MOUNTED BOX

⇒ GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE

⇒ USB DUPLEX RECEPTACLE WITH TWO INTEGRAL POWERED USB OUTLETS

→ TR TAMPER RESISTANT DUPLEX RECEPTACLE

SPECIAL OUTLET CONFIGURATION, SEE NEMA #

FLOOR MOUNTED DUPLEX RECEPTACLE, "PT" INDICATES POKE THROUGH TYPE RECEPTACLE; SEE SPECIFICATION FOR DETAILS

FLOOR MOUNTED SINGLE RECEPTACLE; SEE SPECIFICATION FOR DETAILS

FLOOR MOUNTED SINGLE RECEPTACLE, "BT" INDICATES BENCH TOP MOUNTED; SEE

SPECIFICATION FOR DETAILS

BRANCH CIRCUIT HOMERUN (VOLTAGE, BRANCH CIRCUIT POLES)

FIRE ALARM MANUAL PULL STATION - 48"AFF U.O.N.

FIRE ALARM AUDIO/VISUAL DEVICE - 80"AFF U.O.N.; "SG" INDICATES SECURITY GRADE WIRE GUARD

■ FIRE ALARM STROBE LIGHT - 80"AFF U.O.N.; "SG" INDICATES SECURITY GRADE WIRE GUARD

SMOKE DETECTOR (PROVIDE LOW FREQUENCY SOUNDER BASE ONLY IN APARTMENTS)

© COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH LOW FREQUENCY SOUNDER BASE

HEAT DETECTOR

HIGH TEMPERATURE HEAT DETECTOR

FACE FIRE ALARM CONTROL PANEL

FIRE ALARM REMOTE ANNUNCIATOR PANEL

CO

CARBON MONOXIDE DETECTOR

DOOR BELL CHIME UNIT

DOOR BELL PUSH BUTTON

→ HOOD
 120VAC CONNECTION TO KITCHEN RANGE HOOD (LIGHT & FAN)
 ✓ NETWORK OUTLET (TELEPHONE/DATA). PROVIDE BOX & CONDUIT PER SPECS.

 ∇_{W} WALL MOUNTED TELEPHONE OUTLET (APPROX. 48" AFF)

CABLE TV OUTLET, WITH COAX CABLE TO HEAD-END UNIT IN BASEMENT, ACTIVATION BY TENANT

INTERCOM ENTRY STATION WITH INTERFACE WITH ELECTRIC DOOR LOCK ON FRONT ENTRY DOOR

INTERCOM REMOTE STATION (TENANT APT.) WITH INTERFACE WITH FRONT ENTRY DOOR LOCK RELEASE FURNACE EMERGENCY OFF SWITCH

FURNACE EMERGENCY OFF SWITCH

120VAC CONNECTION TO GENERATOR BLOCK HEATER (FURNISHED BY GENERATOR MANUFACTURER)

120VAC CONNECTION TO GENERATOR BATTERY CHARGER (FURNISHED BY GENERATOR MANUFACTURER)

120VAC CONNECTION TO ELECTRIC DOOR LOCK (FURNISHED BY DOOR HARDWARE MANUFACTURER, WIRED AND INSTALLED BY E.C., COORDINATE WITH INTERCOM SYSTEM)

WIRELESS ACCESS POINT - CEILING MTD WITH 4" SQUARE BOX, CAT 6 PLENUM RATED CABLE, RJ45

JACK - CAT 6, HUBBELL #ISB2BKP PORT, 20 FT, SERVICE LOOP (FOR EXTERIOR MTD AP's: SSE

INDOOR/OUTDOOR RATED CABLE, 1" WEATHERPROOF SLEEVE & WEATHERPROOF COVER PLATE).

PROVIDE QUANTITY OF (2) CAT 6 CABLES WHERE NOTED

IP VIDEO SURVEILLANCE CAMERA WITH CAT 6A CABLE TO NETWORK RACK.

CALL FOR AID SWITCH & DOME LIGHT/BUZZER.

EMERGENCY PUSHBUTTON.

MOTORIZED DAMPER CEILING OUTLET

AMPERES ABOVE FINISHED FLOOR ABOVE FINISHED GRADE CONDUIT CIRCUIT BREAKER CIRCUIT ELECTRICAL CONTRACTOR EXISTING LIGHTING TO REMAIN EXISTING TO BE REMOVED & RELOCATED ELECTRIC WATER COOLER ELECTRIC WATER HEATER **EXISTING TO REMAIN** EXPLOSION-PROOF EXISTING TO BE REMOVED HEAT TRACE JUNCTION BOX MAIN CIRCUIT BREAKER MAIN LUG ONLY MOUNTED OVER HEAD DOOR

ABBREVIATIONS

ELECTRICAL DRAWING LIST		
DRAWING NUMBER	DRAWING DESCRIPTION	
E001	ELECTRICAL GENERAL NOTES AND LEGEND	
E100	ELECTRICAL POWER PLAN	
E101	ELECTRICAL LIGHTING PLAN	
E200	ELECTRICAL SITE PLAN	
E300	ELECTRICAL ONE LINE DIAGRAM	
E400	ELECTRICAL DETAILS	

PANELBOARD

WEATHERPROOF

RELOCATED EXISTING DEVICE/FIXTURE

UNLESS OTHERWISE NOTED

Project Title:

TOLLAND FIRE DEPARTMENT -

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ELECTRICAL GENERAL NOTES AND LEGEND

03/10/2023
Scale:

NOT TO SCALE

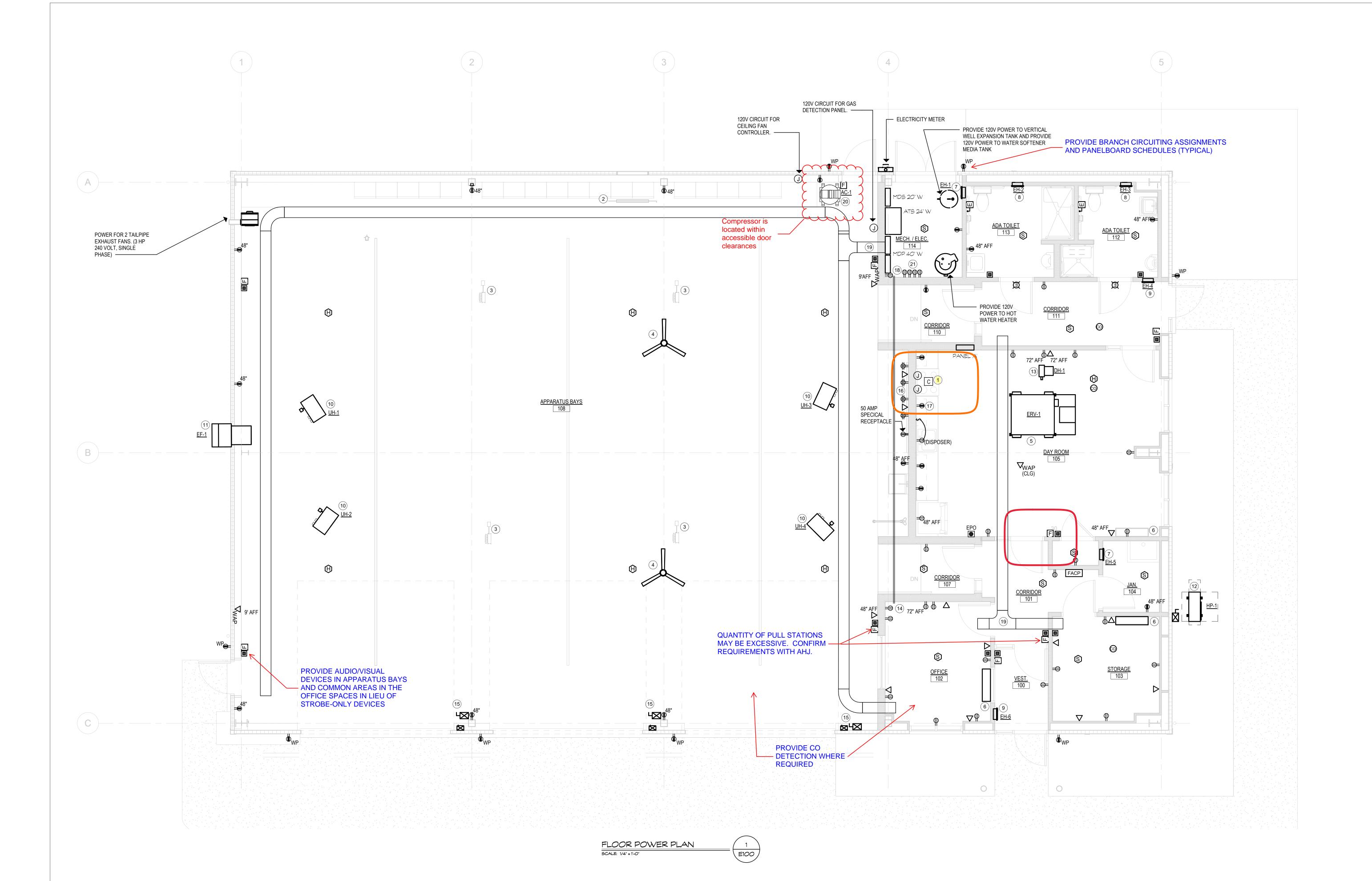
Drawn By:

DR

Project Number:
22-164

Drawing Number:

Date:



ELECTRICAL KEYNOTES

- 1 PROVIDE CONNECTION TO RANGE/OVEN ANSUL SYSTEM. (120V + FIRE ALARM INITIATION)
- (2) CONNECT MOTORIZED DAMPERS TO LOCAL RECEPTACLE CIRCUIT. INTERLOCK WITH EF-1.
- (3) PROVIDE CORD REEL WIH DUPLEX RECEPTACLE END.
- (4) PROVIDE POWER TO CEILING FANS, 120V, 20A, 2 FANS/ CIRCUIT.
- (5) PROVIDE 208/230 VOLTS WITH MOCP OF 15 AMPS FOR ERV-1.
- (6) PROVIDE 208/230 VOLTS, SINGLE PHASE WITH A MCA OF 1.0 FOR WALL MOUNTED INDOOR UNIT.
- (7) PROVIDED POWER FOR EH-1 & EH-5 (120, 1PH, 12.5 AMPS, 1500 WATTS).
- (8) PROVIDED POWER FOR EH-2 & EH-3 (120, 1PH, 500 WATTS). (9) PROVIDE POWER FOR EH-6 & EH-4 (1000W, 120V, 1PH).
- (10) PROVIDE POWER FOR UH-1,UH-2,UH-3 & UH-4 (120V, 1PH, 1/12 HP, 3.3 AMPS) TWO CIRCUITS.
- (11) PROVIDE POWER FOR EF-1 (115V, 1PH).
- (12) PROVIDE POWER FOR HP-1 (208/230V, 1PH, 30 AMP MCA) & NEMA 3R DISCONNECT.
- (13) PROVIDE POWER TO DH-1 (5KW 240V/1PH).
- PROVIDE (2) DEDICATED 120V, 20A CIRCUITS FOR IT & RADIO EQUIPMENT. COORDINATE LOCATION WITH OWNER.
- PROVIDE DEDICATED 120V, 20A CIRCUIT FOR EACH OVERHEAD DOOR. PROVIDE DISCONNECT FOR MOTOR & CONDUIT BOX FOR A CONTROLLER. WIRE LIGHT COMMUNICATION SYSTEM FOR
- PROVIDE DUAL-CHANNEL RACEWAY ABOVE WORKBENCH WITH DEVICES SHOWN. PROVIDE GFI PROTECTION FOR 120V CIRCUITS.
- COUNTER TOP RECEPTACLE + RANGE SHALL BE CIRCUITED TO PANEL 'A'. PANEL CONTACTOR SHALL BE WIRED TO ANSUL ALARM CONTACRS AND EPO SWITCH IN ROOM.
- (18) PROVIDE (2) 2" CONDUITS FROM MECH/ELEC ROOM TO OFFICE 102 RACK.
- (19) PROVIDE 12" WIDE BY 4" HIGH WIRE-MESH CABLE TRAY FOR ROUTING OF HORIZONTAL CABLING.
- (20) PROVIDE POWER TO AC-1 (230 VOLT, 1-PHASE, 28 AMP, 60 AMP BREAKER).
- (21) PROVIDE POWER TO PLYMOVENT EXHAUST CONTROL PANEL ABOVE OUTLETS.

ELECTRICAL GENERAL NOTES:

- TELE/COMM COVERPLATES, JACKS, WIRING, RACKS, AND INSTRUMENTS TO BE PROVIDED BY THE OWNER.
- 2. PROVIDE DEVICE BRANCH CIRCUITS PER SPECS.





