\frown	APPLICATION	For Office Use Only			
	ARTICLE 85	APPLICATION #			
	DEMOLITION DELAY REVIEW	COMPLETE ON			
	Mailing Address: Environment Dept Boston City Hall, Rm 709	SIGNIFICANT			
\smile	Boston, MA 02201	HEARING DATE			
PLEASE PRINT LEGIBLY. SCAN AND EMAIL TO BLC@BOSTON.GOV					
I. PROPERTY ADDRESS 254 Paris ST. East Boston, MA. 02128					

NAME of PROPERTY

The names, phone numbers, postal and email addresses requested below will be used for all subsequent communications relating to this application. Environment Department personnel cannot be responsible for illegible, incomplete or inaccurate contact information provided by applicant.

II.	APPLICANT Nicholas Tan			
	Nicholas Tan	Owner		
	CONTACT NAME	RELATIONSHIP TO PROPERTY		
	101 Access Rd Ste 20	Norwood	MA	02062
	MAILING ADDRESS	CITY	STATE	ZIP CODE
	617-888-9666	Mick @ nt-buil	der . cor	n
	PHONE	EMAIL		
	254 Pavis NT LLC.	Nicholas Tan		
	PROPERTY OWNER	CONTACT NAME	***************************************	¢
	101 Access Rd. Ste 201	Norwood	MA	02062
	MAILING ADDRESS	CITY	STATE	ZIP CODE
	617-888-9666	nick (ant-bu	ilder.	im
	PHONE	EMAIL		
III.	DOES THIS PROPOSED PROJECT REQUIRE ZON	NING RELIEF?		
	IF YES, PLEASE INDICATE STATUS OF ZBA PR		red	
	(1	f necessary, attach additional pages t	o provide mo	re information.)

IV. DESCRIPTION OF PROPOSED DEMOLITION: (REQUIRED)

A BRIEF OUTLINE OF THE PROPOSED WORK MUST BE GIVEN IN THE SPACE PROVIDED BELOW. Describe the structure(s) to be demolished, including the number of existing housing units, and the number of new housing units to be constructed. Attachments are required to show details about the proposed project.

• The structure to be demolished is a single-family house with one story and a basement. The existing structure also has a front porch attached to the house. Please see attached picture for reference. • The new construction is a 4-Story multi-family condominum, which includes six units and a five-car parking garage on the first floor. Please see attached floor plan for reference.

Page ONE of two: Application for Article 85 Demolition Delay Review

ZIP CODE

Page TWO of two: Application for Article 85 Demolition Delay Review

- V. REQUIRED DOCUMENTATION: The following is a list of documents that MUST be submitted with this application. Failure to include adequate documentation will cause a delay in the review process.
 - 1. PHOTOGRAPHS: Current, clear, high-quality color photographs of the property, properties affected by the proposed demolition, and surrounding areas must be labeled with addresses and dates. Major elevations of the building(s) and any deterioration or reason for demolition should be documented. Photographs of the subject property seen from a distance with neighboring properties are required. All photographs must be keyed to a map (see below) to provide a thorough location description. Images from the internet are not acceptable. There are no file size limits in the application, but a file size less than or equal to 20MB per photograph is preferred.
 - 2. MAP: A *current* and *clear* map showing the location of the property affected by the proposed demolition must be submitted with this application. The map must be a full-page-sized street map, such as from a BPDA locus map or an internet mapping site.
 - 3. **PLOT PLAN:** A plot plan showing the existing building footprint and those of buildings in the immediate vicinity must be submitted with this application. Assessing parcel maps will be accepted, if the footprint of the relevant structure(s) is illustrated.
 - 4. PLANS and ELEVATIONS: If a new structure is being planned, a site plan, building plans and elevations of the new structure(s) must be submitted. If no new building is planned, submit plans for site improvements and a written narrative describing the proposed use and treatment of parcel. (Parking, landscaping, clear debris, fill excavations, etc.)
 - 5. **PROOF OF OWNERSHIP:** Proof of ownership must be submitted with the application. A copy of a property deed, property tax assessment bill, or other official documentation of property ownership is required.

NOTE: Copies of all documentation submitted with this application (photographs, maps, plot plans, etc.) should be retained by the applicant should additional copies be necessary for a commission hearing. Additional materials will be requested if a hearing is required.

VI. NOTARIZED* SIGNATURES: Both the applicant's and the legal property owner's signatures must be notarized. In cases of multiple ownership, the chair of the condominium or cooperative association or authorized representative (such as a property manager) shall sign as owner; in cases of institutional ownership, an authorized representative of the organization shall sign as owner.

The facts set forth above in this application and accompanying documents are a true statement made under penalty of perjury.

APPLICANT OWNER* andas *(If building is a condominium or cooperative, the chairman must sign.) PRINT 3 distas 2002 PRINT day of MARIL 2022, before me, the undersigned On this Hay of mond 20 22, before me, the undersigned On this 17 Notary Public, personally ** appeared Alicholas TAN Notary Public, personally ** appeared Alcho Las Ton (name of document signer), proved to me through satisfactory evidence (name of document signer), proved to me through satisfactory evidence of identification, which were an Driller fank to be the person whose name is signed on the preceding or attached of identification, which were MA DVilar! lia to be the person whose name is signed on the preceding or attached document in my presence. document in my presence. (official signature and seal of Notary) MOHAMAD CHEBBO(official signature and seal of Notary) My Commission expires ublic Commonwealth of Massachusetts Notary Public My Commission Expires Nov. 30, 2023. Commonwealth of Massachusetts My Commission Expires Nov. 30, 203

**During the declared state of emergency due to COVID-19, digital notarization is allowed.

Environment Department personnel cannot be responsible for verifying the authority of the above individuals to sign this application. Misrepresentation of signatory authority may result in the invalidation of the application.

Please review all instructions and documentation requirements carefully before submitting your application. It is your responsibility to ensure the application is complete before submittal. **Incomplete applications will not be accepted.**

Once you have submitted the application, staff will review for completeness and will be in touch about next steps.

Map showing the location of the property: 254 Paris St East Boston, MA 02128





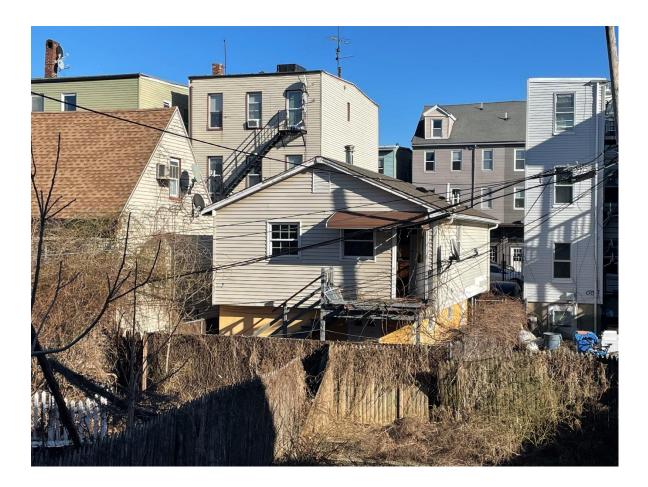
1) Front of 254 Paris St East Boston, MA 02128



2) Left side of 254 Paris St East Boston, MA 02128



3) Left side of 254 Paris St East Boston, MA 02128



4) Back of 254 Paris St East Boston, MA 02128



5) Right side of 254 Paris St East Boston, MA 02128

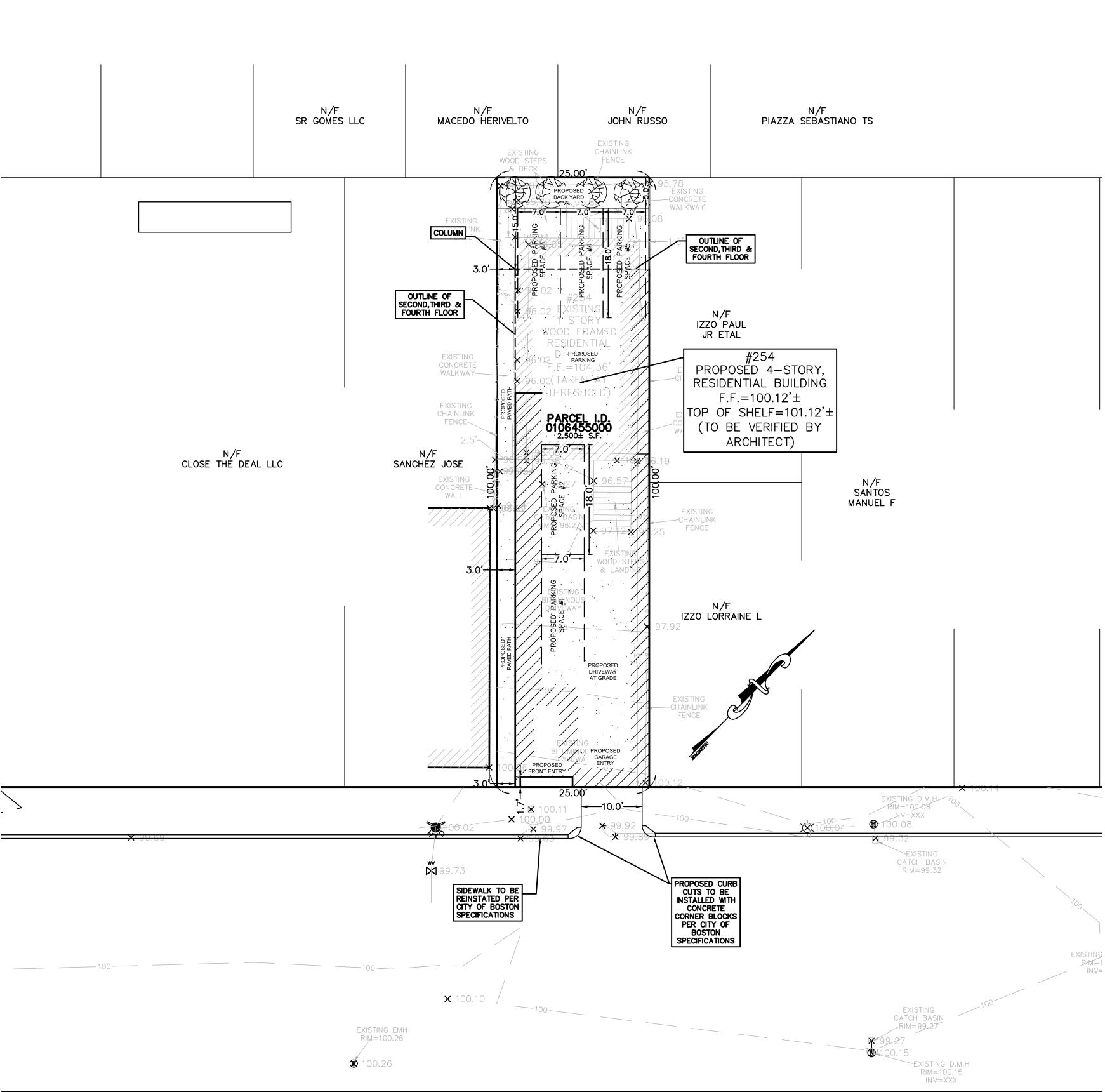


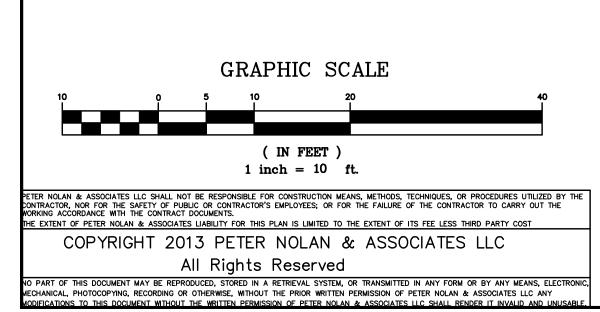
6) View of 254 Paris St East Boston, MA 02128 from the right



7) View of 254 Paris St East Boston, MA 02128 from the left

EXIST	ING LEGEND
SS	SEWER LINE
S	SEWER MANHOLE
w	WATER LINE
G	GAS LINE
СJ	UTILITY POLE
°S X	GAS VALVE
—— E ——	OVERHEAD ELECTRIC SERVICE
×	WATER VALVE
	CATCH BASIN
O	FENCE
205	CONTOUR LINE (MJR)
195	CONTOUR LINE (MNR)
×	SPOT GRADE
D	DRAIN MANHOLE
Ж	HYDRANT
Θ	TREE





PARIS STREET (PUBLIC WAY-50' WIDE)

NOTES:

1. INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF A FIELD SURVEY PERFORMED BY PETER NOLAN & ASSOCIATES LLC AS OF 7/18/2019.

2. DEED REFERENCE BOOK 57170 PAGE 45, PLAN REFERENCE END OF BOOK 406, SUFFOLK COUNTY REGISTRY OF DEEDS.

3. THIS PLAN IS NOT INTENDED TO BE RECORDED.

4. I CERTIFY THAT THE DWELLING SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X, ON FLOOD HAZARD BOUNDARY MAP NUMBER 25025C0018J, PANEL NUMBER 0018J, COMMUNITY NUMBER: 250286, DATED MARCH 16, 2016.

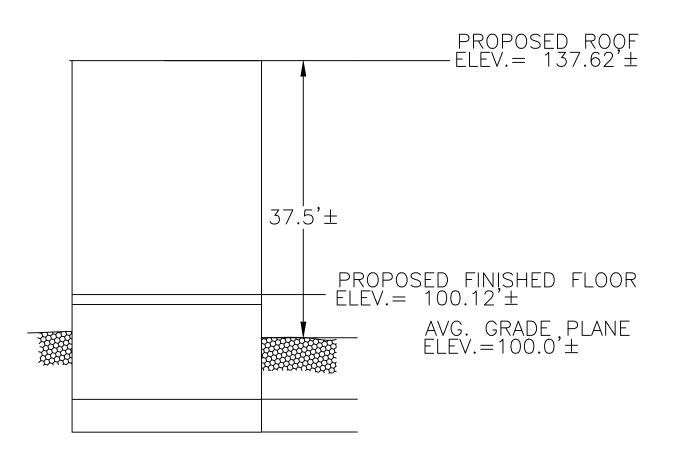
5. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT USES OF THE LAND; HOWEVER THIS NOT CONSTITUTE A GUARANTEE THAN NO SUCH EASEMENTS EXIST.

6. FIRST FLOOR ELEVATIONS ARE TAKEN AT THRESHOLD.

7. NO RESPONSIBILITY IS TAKEN FOR ZONING TABLE AS PETER NOLAN & ASSOCIATES LLC ARE NOT ZONING EXPERTS. TABLE IS TAKEN FROM TABLE PROVIDED BY LOCAL ZONING ORDINANCE. CLIENT AND/OR ARCHITECT TO VERIFY THE ACCURACY OF ZONING ANÁLYSIS.

8. ZONING DISTRICT = 3F-2000 EAST BOSTON NEIGHBORHOOD

9. ELEVATIONS ARE BASED ON AN ASSUMED DATUM.





SCALE					
1"=10'					1
DATE					
03/15/2022	REV	DATE	REVISION	BY	
SHEET 1			254 PARIS STREET		
PLAN NO. 1 OF 1			BOSTON MASSACHUSETTS		
CLIENT:			PROPOSED PLOT PLAN		SHEET NO.
DRAWN BY L.P					
CHKD BY PJN			TER NOLAN & ASSOCIATES		
APPD BY		PHONE	80 JEWETT ST, SUIT 2 NEWTON MA 02458 857 891 7478/617 782 1533 FAX: 617 20	2 5691	
PJN		EM	AIL: pnoľan@pnasurveyors.«	com	

Suffolk County Registry of Deeds Electronically Recorded Document

This is the first page of the document - Do not remove

Recording Information					
Document Number	: 117936				
Document Type	: DED				
Recorded Date	: October 27, 2021				
Recorded Time	: 02:22:06 PM				
Recorded Book and Page	: 66553 / 181				
Number of Pages(including cover sheet)	: 3				
Receipt Number	: 934315				
Recording Fee (including excise)	: \$5,444.60				
MASSACHUSETTS EXCISE TAX Suffolk County District ROD # 001 Date: 10/27/2021 02:22 PM Ctrl# 215915 29598 Doc# 00117936 Fee: \$5,289.60 Cons: \$1,160,000.00					

Suffolk County Registry of Deeds Stephen J. Murphy, Register 24 New Chardon Street Boston, MA 02114 617-788-8575 <u>Suffolkdeeds.com</u>

QUITCLAIM DEED

Bk: 66553 Pg: 182

SG PARIS DEVELOPMENT LLC, a Massachusetts Limited Liability Company, with a principal place of business of 233 Harvard Street, Suite 306, Brookline, MA 02446

In Consideration paid of One Million One Hundred Sixty Thousand and 00/100 Dollars (\$1,160,000.00)

Grants to **254 PARIS NT LLC**, a Massachusetts Limited Liability Company with a principal place of business of 883 Greendale Ave, Needham, MA 02492

With QUITCLAIM COVENANTS

The land with the buildings thereon in that part of said Boston called East Boston, Suffolk County, Massachusetts, with all the buildings thereon and being a part of Lot numbered 232 on plan of East Boston Company's land, Section 2, recorded with Suffolk Deeds at the end of Book 406 and bounded and described as follows:

Beginning at a point in the northwesterly line of Paris Street distant about forty-one (41) feet Northeasterly from the division line between Lots 231 and 232 on said plan of, one hundred (100) feet; thence running Southwesterly on Lot 237 on said plan, twenty five (25) feet; thence running Southeasterly parallel with said division line, one hundred (100) feet to said Paris Street; and thence running Northeasterly on the said line of Paris Street, twenty five (25) feet, to the point of beginning.

Grantors duly release and relinquishes any and all rights of Homestead that may exist, and hereby states that no other parties are entitled to the protections of the Homestead statute in the premises.

Meaning and intending to convey all the grantor's right, title and interest in and to all the same premises conveyed by deed dated **August 4, 2020** and recorded at **the Suffolk Registry of Deeds at** Book 63644, Page 235

SIGNATURE AND NOTARY PAGE TO FOLLOW

7	SVA .	<i>.</i>
EXECUTED as a sealed instrument this	day ofCtober	, 2021.
SG PARIS DEVELOPMENT LLC		
Stan Klebaner, Manager		

COMMONWEALTH OF MASSACHUSETTS

County: Mrph

,2021

On this 25 day of 0c/bh 2021, before me, the undersigned notary public, personally appeared **Stan Klebaner**, **Manager** proved to me through satisfactory evidence of identification, which was 20 to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she/they signed it voluntarily for its stated purpose under the pains and penalties of perjury.

Notary Public Commission Expires: 4/27/2-3 and Sands Constitution of AVELESS. SSO. Actacy Public CORRESPONDENCED OF MARKACED CONTRA My Complexion Express April 27 2028 Carlo L Congenera

Corporations Division

Business Entity Summary

ID Number: 001538461

Request certificate

New search

Summary for: 254 PARIS NT LLC

The exact name	of the Domestic Limit	ted Liability Company (LLC): 254 PARIS NT LLC
Entity type: Dom	nestic Limited Liability C	Company (LLC)
Identification Nu	Imber: 001538461	
Date of Organiza	tion in Massachusett	S:
		Last date certain:
The location or a location or a		cords are maintained (A PO box is not a valid
Address: 883 GRE	ENDALE AVE	
City or town, State Country:	e, Zip code, NEEDH	AM, MA 02492 USA
The name and ac	Idress of the Residen	t Agent:
Name: NICHOLA	AS TAN	
Address: 883 GRE	ENDALE AVE	
City or town, State Country:	e, Zip code, NEEDH	AM, MA 02492 USA
The name and bu	isiness address of ea	ch Manager:
Title	Individual name	Address
MANAGER	NICHOLAS TAN	883 GREENDALE AVE NEEDHAM, MA 02492 USA
		me and business address of the person(s) be filed with the Corporations Division:
Title	Individual name	Address
SOC SIGNATORY	NICHOLAS TAN	883 GREENDALE AVE NEEDHAM, MA 02492 USA
	liver, and record any	e person(s) authorized to execute, recordable instrument purporting to affect an
Title	Individual name	Address
REAL PROPERTY	NICHOLAS TAN	883 GREENDALE AVE NEEDHAM, MA 02492 USA
	Consent Data	ential Merger Allowed Manufacturing
View filings for t	his business entity:	

ALL FILINGS	
Annual Report	
Annual Report - Professional	
Articles of Entity Conversion	
Certificate of Amendment	•
View filings	
Comments or notes associated with this business entit	y:

New search

254 Paris Street

East Boston, Massachusetts Owner: 254 Paris NT LLC - Issued for BPDA Revision: 12/22/2021

- **GENERAL NOTES** ALL WORK SHALL COMPLY WITH STATE, NATIONAL CODES, REGULATIONS AND RESTRICTIONS WHICH APPLY TO THIS PROJECT THE CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON. THE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE 1351 WORK. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND POSTING ALL NECESSARY VALID CONSTRUCTION PERMITS FROM ALL LOCAL. STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION PRIOR TO THE START OF ON-SITE CONSTRUCTION. THE CONTRACTOR SHALL KEEP ALL BUILDING MEANS OF EGRESS CLEAR OF ANY OBSTRUCTIONS AT ALL TIMES. THE GENERAL CONTRACTOR MUST COORDINATE WITH THE BUILDING FACILITIES MANAGER ALL ACTIVITIES INCLUDING, BUT NOT LIMITED TO WORK WHICH WILL GENERATE EXCESSIVE NOISE NOISE AND MODIFICATION TO UTILITIES. WORK MUST NOT INTERFERE WITH EXISTING SMOKE DETECTORS. ALARMS OR BUILDING SYSTEM MANAGEMENT 5.1. THE GENERAL CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH ANY TENANT DESIGN AND CONSTRUCTION MANUAL AND ANY OTHER BUILDING OWNER OR BUILDING STANDARDS THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION ACTIVITIES, MATERIALS, MEANS AND METHODS. THE CONTRACTOR IS TO COORDINATE ALL SUBCONTRACTORS TO COMPLETE THE FULL SCOPE OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROPERLY LAYING OUT THE WORK AND FOR ALL LINES 6.1. AND MEASUREMENTS FOR THE WORK. 6.2. BUILDING OR SITE COMPONENTS WHICH ARE AFFECTED OR DAMAGED BY THE WORK SHALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION AND COLOR, OR AS APPROVED BY THE OWNER WHERE THE DESIGN INTENT CANNOT BE DETERMINED FROM THE DRAWINGS, CONSULT THE ARCHITEC 6.3. BEFORE PROCEEDING WITH THE WORK. (312) 780-9456 THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE DRAWINGS BEFORE LAYING OUT THE WORK, IELD RESPONSIBLE FOR ANY ERRORS OR INACCURACIES RESULTING FROM FAILURE TO DO SO. 7.1. DETAILS SHOWN ARE INDICATIVE OF THE CHARACTER. PROFILES. MATERIALS AND SYSTEMS REQUIRED FOR THE WORK INCLUDING THOSE CONDITIONS NOT COVERED BY SPECIFIC DETAILS. DIMENSIONS SHALL GOVERN, DO NOT SCALE THE DRAWINGS. WHERE THERE APPEARS TO BE A CONFLICT 7.2. OR WHERE DIMENSIONS CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. 7.3. ALL DIMENSIONS ARE TO INSIDE FACE OF WALLS. 7.4 UNLESS SHOWN OTHERWISE, ALL DOORS SHALL BE LOCATED SUCH THAT THERE IS A 2 INCH WALL RETURN BETWEEN THE JAMB FRAME AND THE ADJACENT PERPENDICULAR WALL. CONSULT WITH THE ARCHITECT OR ENGINEER BEFORE PENETRATING ANY JOISTS, BEAMS, OR OTHER STRUCTURAL MEMBERS 9. ALL CONSTRUCTION MATERIALS AND EQUIPMENT ARE TO BE STORED NEATLY WITHIN THE SCOPE OF WORK AREA ONLY. 10. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS 10.1. SUBMIT SHOP DRAWINGS AND SAMPLES FOR ALL STEEL, MILLWORK, SIGNAGE, HARDWARE AND INTERIOR FINISHES 10.2. SUBMIT PRODUCT DATA FOR FIXTURES AND HARDWARE ALL INTERIOR AND EXTERIOR FINISHES, COLORS AND MATERIALS ARE TO BE SELECTED AND APPROVED BY 10.3. THE OWNER PRIOR TO CONSTRUCTION 10.4. ALL INTERIOR FINISHES AND FURNISHINGS ARE TO BE CLASS 'A' FIRE RATED AND ARE TO COMPLY WITH MASSACHUSETTS BUILDING CODE AND THE BOSTON FIRE CODE ALL WOOD COMPONENTS SHALL BE FIRE TREATED 10.5. 10.6. CONFIRM THAT ALL MATERIALS AND FINISHES, INCLUDING THEIR FABRICATION AND INSTALLATION WILL NOT RELEASE FUMES OR AROMAS WHICH MAY BE A HAZARD OR NUISANCE TO PERSONNEL 11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PANEL CONTROL AND CIRCUIT DESIGN AND FOR COMPLIANCE WITH ALL BUILDING, LIFE SAFETY, AND STATE AND NATIONAL ELECTRICAL CODES WHICH MAY APPLY 11.1. ALL EXPOSED UTILITY WIRES AND PIPES SHALL BE INSTALLED IN A WAY THAT DOES NOT OBSTRUCT OR PREVENT THE CLEANING OF FLOORS, WALLS AND CEILINGS; THEY SHALL BE INSTALLED A MINIMUM OF 6" OFF OF FLOORS AND 1' OFF OF WALLS, CEILINGS OR ADJACENT PIPES OR WIRES 12. WHERE APPROPRIATE, EXISTING SPRINKLER HEADS ALARM SYSTEM AND DETECTORS ARE TO REMAIN. MODIFY LOCATIONS ONLY WHERE CEILING IS ALTERED OR AS INDICATED ON FIRE PROTECTION DRAWINGS. 13. EQUIPMENT INFORMATION AND SPECIFICATIONS, INCLUDING EQUIPMENT SUPPLIED BY THE OWNER, ARE TO BE THE MOST CURRENT AT THE TIME OF DOCUMENTATION PREPARATION. 13.1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT DIMENSIONS AND EQUIPMENT CONNECTION REQUIREMENTS. 13.2. MAKE ALL FINAL CONNECTIONS, INSTALL THE SET UP IN WORKING ORDER, CHECK WARRANTIES, TEST AND NOTE VOID WARRANTIES. 13.3. COORDINATE WITH THE OWNER DELIVERY, STORAGE AND INSTALLATION OF ALL EQUIPMENT, INCLUDING THAT SUPPLIED BY THE OWNER. 14. PROVIDE ALL TEMPORARY FACILITIES AND SERVICES, CONSTRUCTION AND SUPPORT FACILITIES AND SECURITY AND PROTECTION AS NEEDED TO PROTECT NEW AND EXISTING CONSTRUCTION FOR THE DURATION OF THE WORK 15. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE UNLESS OTHERWISE SPECIFIED FOR A LONGER PERIOD OF TIME FOR A CERTAIN ITEM
- 16. SEAL AND CAULK AROUND ALL PENETRATIONS, CRACKS AND CREVICES AND ANY OPENINGS CAPABLE OF HARBORING INSECTS OR RODENTS
- 17. EMPLOY EXPERIENCED WORKERS FOR FINAL CLEANING, CLEAN TO COMMERCIAL BUILDING PROGRAM STANDARDS
- 17.1. DISPOSE OF ALL WASTE AND DEBRIS OFF THE PREMISES

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Modifications from the original set dated 5/11/2021 in

- Extensive refinement of exterior materials and
- Exensive refinement of interior unit and stair la

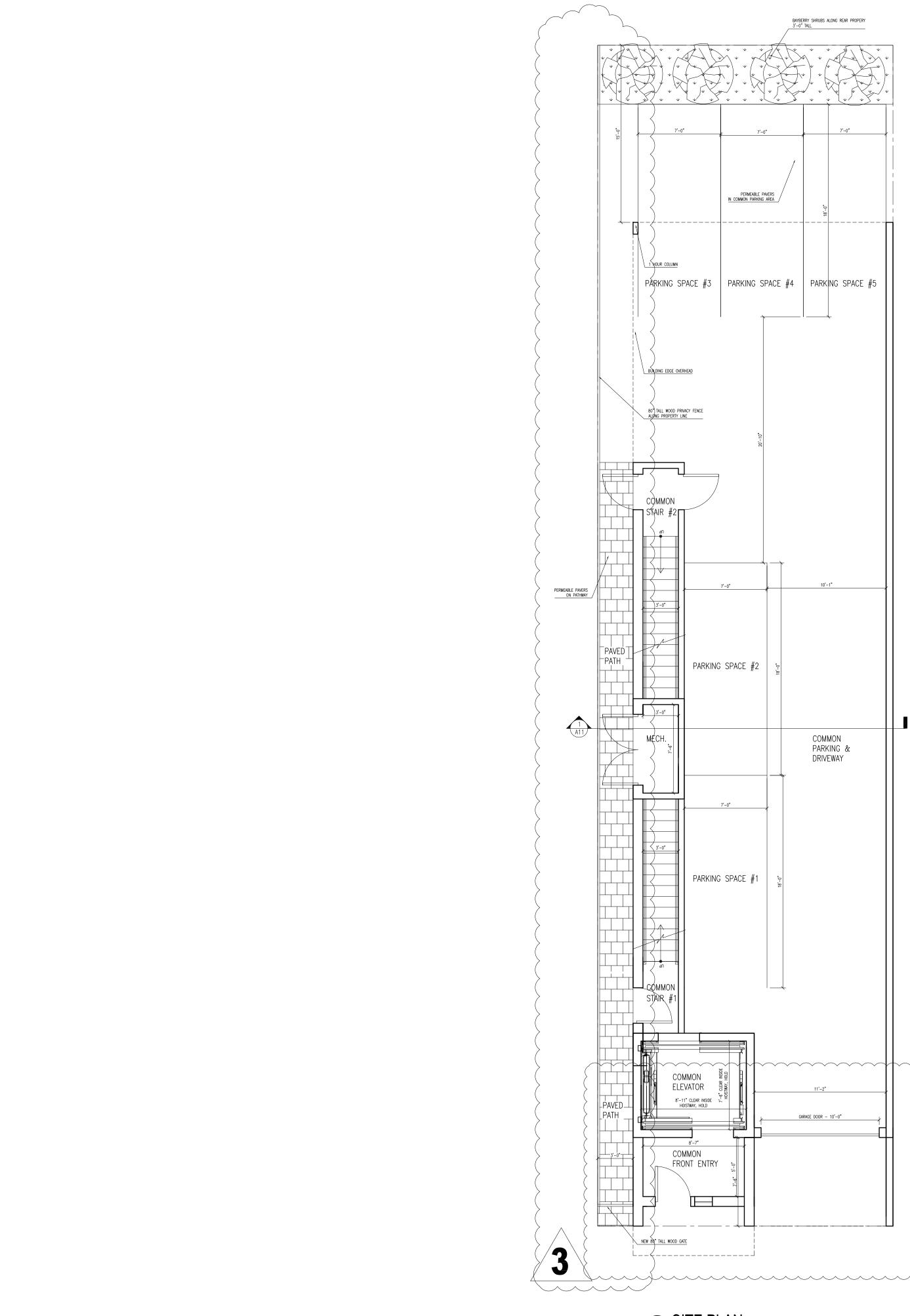
Modifications from the BPDA set dated 11/16/2021 in

- Refinement of site plan materials and planting
- New fence along property line and security gat
- Garage door moved back from front property li

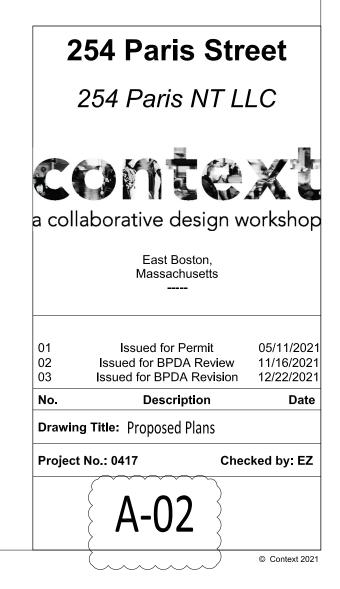
APPLICABLE CODES BUILDING CODI BUILDING CODE CODE W/ MASS ACCESSIBILIT ACCESSIBILIT FIRE PROTECT WITH AMEND ELECTRICAL: 5 AMENDMENTS Barney's Grill MECHANICAL: Sacred Heart Parish Colombian PLUMBING: 248 CODE El Valle de la ENERGY: INTE Sultana Market AMERICANS W 9. BOSTON ZONIN Botanica San Lazaro 10. MGL CH. 148 SE **BUILDING DESCRIPT** Portillo Food Market THIS NEW 4 STORY 54 PARIS STREET PARKING LOT UNDEF MORRISSIRE a De Dios CODE SUMMARY: 254 Paris St, Pentecosta 1. PROPOSED USE C Blanquita's Market Boston, MA 02128 1.1 OCCUPAN 9 2. CONSTRUCTION 1 2.1 PER TABL 2.2 MAX. ARE Roy's Cold Cuts 3. PER TABLE 1006.3 Helados **TRAVEL DIS1** Frozen D 4. MINIMUM WIDTH (H 5. MAXIMUM LENGTH Ice C PARISSIRE Š 6. FIRE RATED CONS 6.1 PER TABL 30' OF 6.2 DEMISING James Otis School 9. 6.3 HORIZON 420 CHELSEA 6.4 STAIRWA STOR 5 The Hobby Shoppe 6.5 PER TABL Toy store COR ۲ HAVE 7. DEMISING PARTIT S. 8. ACCESSIBILITY RE 8.1 CMR 521 MUST BE CON 8.2 CMR 521 ENERGY REQUIREME MASSACHUSETTS EN INTERNATIONAL ENER

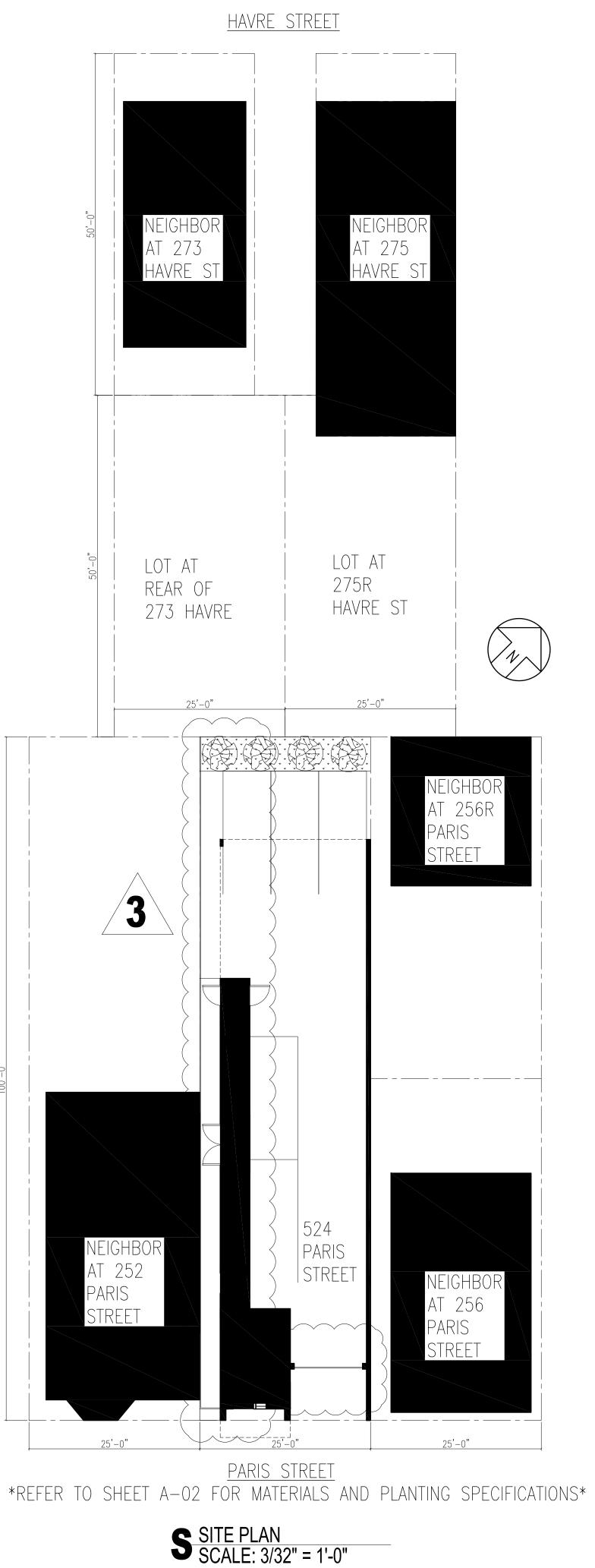
SCALE: NOT TO SCALE

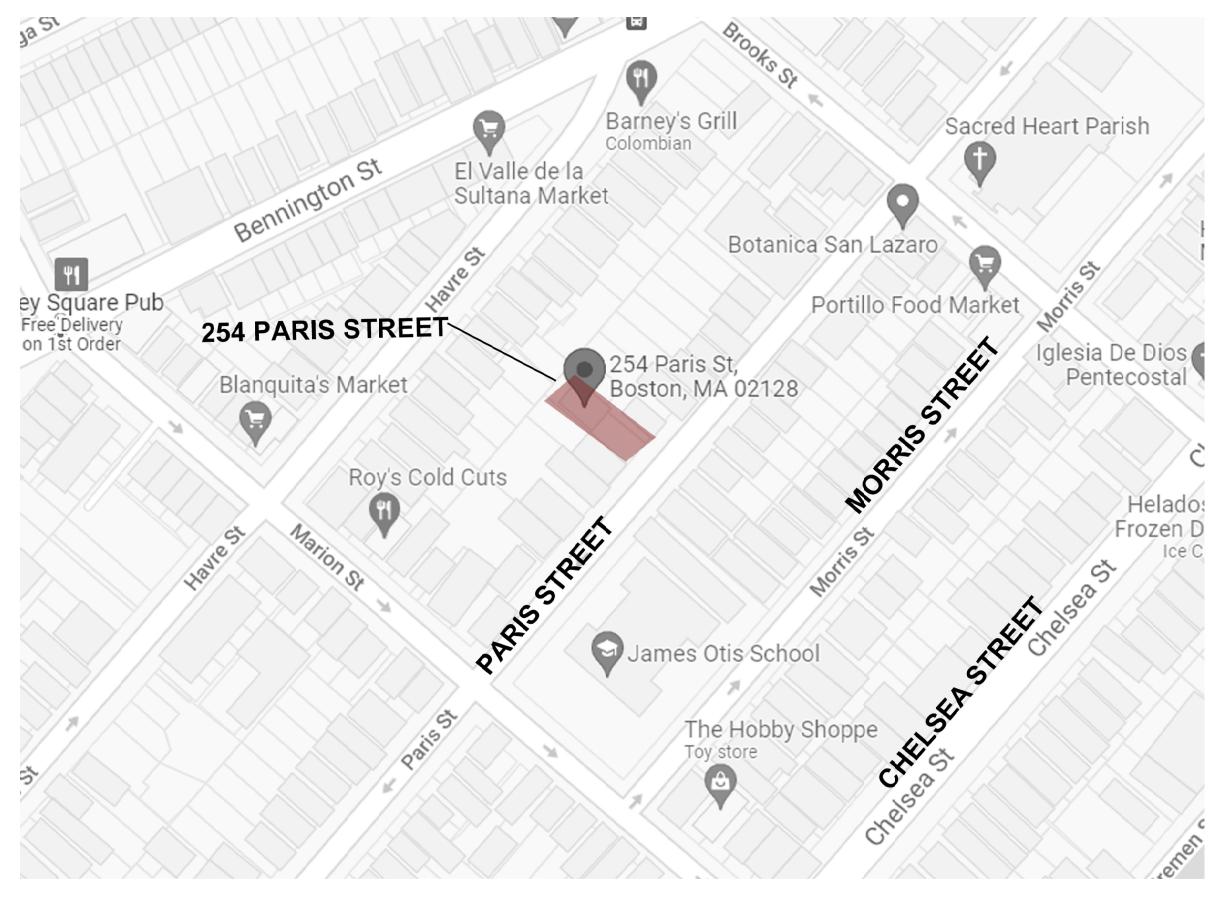
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ated 5/11/2021 included in this drawing				→ DETAIL NUMBER → EX2 → SHEET NUMBER
or materials and window configuration	IS.	Ş		•
or unit and stair layouts		\$	<u>  </u>	ITERIOR ELEVATION TARGET
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			4 3 A30 ← SHEET NUMBER
ted 11/16/2021 included in this drawin	g set:			▼ AJU < SHELI NUMBER
ials and planting specifications		$\bigwedge $	<u>D</u>	ETAIL TARGET
and security gate to pathway entry		3		− 5 ← DETAIL NUMBER A40 ← SHEET NUMBER
n front property line 7'-6"	Z			
	~~~~~	······		INDOW TARGET
				A → WINDOW TYPE
APPLICABLE CODES:				LIST OF DRAWINGS
1. BUILDING CODE: CMR 780 MASSACHUSETT			N N	A-01 ANALYSIS, DRAWING LIST AND NOTES
BUILDING CODE 2015, INTERNATIONAL RES CODE W/ MASSACHUSETTS AMENDMENTS)		2015 AND THE 2015	INTERNATIONAL EXISTING BUILDING	AND NOTES
2. ACCESSIBILITY: MASSACHUSETTS ARCHI ACCESSIBILITY STANDARDS	ECTURAL ACC	ESS BOARD CMR 521	AND UNIFORM FEDERAL	A-10 PROPOSED PLANS A-11 PROPOSED PLANS & SECTION
3. FIRE PROTECTION: MASSACHUSETTS COM	PREHENSIVE F	RE SAFETY CODE CI	MR 527 1.00 - 2012 NFPA 1: FIRE CODE	A-30 PROPOSED ELEVATIONS
<ul> <li>WITH AMENDMENTS</li> <li>4. ELECTRICAL: 527 CMR 12.00 MASSACHUSE⁻</li> </ul>	ITS ELECTRICA	L CODE - 2014 NFPA	70 NATIONAL ELECTRICAL CODE WITH	
AMENDMENTS				
<ol> <li>MECHANICAL: INTERNATIONAL MECHANICA</li> <li>PLUMBING: 248 CMR BOARD OF STATE EXA</li> </ol>			TTERS - UNIFORM STATE PLUMBING	
CODE 7. ENERGY: INTERNATIONAL ENERGY CONSE		2015 (IECC)		
8. AMERICANS WITH DISABILITIES ACT				
9. BOSTON ZONING CODE 10. MGL CH. 148 SECTION 26G				
BUILDING DESCRIPTION: THIS NEW 4 STORY BUILDING CONTAINS 6 DWEL	ING UNITS. TH	ERE ARE 2 UNITS PE	R FLOOR ON LEVELS 2-4. THE SURFACE	
PARKING LOT UNDER THE BUILDING HAS SPACE CODE SUMMARY:	FOR 5 CARS. TI	HE BUILDING CONTA	INS AN ELEVATOR.	
1. PROPOSED USE OR OCCUPANCY: RESIDENTIA				
1.1 OCCUPANT LOAD: (200 GROSS SF/PEF 2. CONSTRUCTION TYPE: V.A TABLE 504.4	SON PER 1004	1.1) APPROX. 5752 S	F =29 PERSONS	
2.1 PER TABLE 601: STRUCTURAL FRAME		,		
2.2 MAX. AREA PER FLOOR IS 12,000 SF P 3. PER TABLE 1006.3.2(1) FOR USE GROUP R-2 - T				
TRAVEL DISTANCE IS LIMITED TO 125' 4. MINIMUM WIDTH OF EGRESS STAIR: 36 INCHES	S PER SECTION	1011 2		
5. MAXIMUM LENGTH OF EXIT TRAVEL: 250 FEET		1011.2		
6. FIRE RATED CONSTRUCTION: 6.1 PER TABLE 602, EXTERIOR WALLS MC	ORE THAN 30' FI	ROM PROPERTY LINE	E ARE NOT REQUIRED TO BE RATED.	
30' OR LESS MUST BE 1 HOUR RA				
6.2 DEMISING PARTITIONS/CORRIDORS N 6.3 HORIZONTAL SEPARATION BETWEEN			,	
420 AND 711.2.4.3 - REFER TO DE 6.4 STAIRWAYS CONNECTING 4 OR MORE		TO BE 2 HOUR RATE	D. STAIRS CONNECTING LESS THAN 4	
STORIES ARE TO BE 1 HOUR RAT	ED PER 1023.2			
6.5 PER TABLE 716.5:1 HOUR ENCLOSURE CORRIDORS SHALL HAVE A MININ			HOUR DOORS. 1 HOUR AND $\frac{1}{2}$ HOUR ENCLOSURES AND EXIT ACCESS SHALL	
HAVE 90 MIN. DOORS.				
<ol> <li>DEMISING PARTITION MINIMUM: STC 50 PER SE</li> <li>ACCESSIBILITY REQUIREMENTS:</li> </ol>	CTION 1207.2			
8.1 CMR 521 9.3 - BUILDING CONTAINS AN MUST BE CONSTRUCTED AS GROUP 1 DV				STERED ARCHINE
8.2 CMR 521 9.4 BUILDING DOES NOT CON		,	12.00, 40.00 AND 40.00	BOSTON
ENERGY REQUIREMENTS: MASSACHUSETTS ENERGY STRETCH CODE, CHA	PTER 4 - RESID	ENTIAL ENERGY EEF	CIENCY - RESIDENTIAL BUILDINGS	MA MA MA MA MA
INTERNATIONAL ENERGY CONSERVATION CODE				- A - Martin
<ol> <li>CLIMATE ZONE 5H PER TABLE 301.1</li> <li>EXISTING WALLS AND CEILINGS: FILL EXIST</li> </ol>	STING WALL AN	D CEILING CAVITIES	WITH INSULATION PER IECC 503.1.1	ERi Gentron
<ol> <li>PER IECC TABLES 402.1.2 AND R402.1.4, F</li> <li>SKYLIGHTS SHALL HAVE A U-FACTOR OF</li> </ol>				
5. VAPOR RETARDER IS REQUIRED TO COM				
<ul> <li>RESIDENTIAL CODE. VAPOR RETARDER IS</li> <li>R402.1.2 - CEILING: R=49; WOOD FRAME V</li> </ul>				254 Paris Street
AND CRAWL SPACES: R=15 CONTINUOUS OR R=1	9 IN CAVITY OR	R=13 IN CAVITY WIT	H R=5 CONTINUOUS; SLAB R=10	254 Paris NT LLC
<ol> <li>DEMAND RECIRCULATION WATER SYSTEI</li> <li>HOT WATER PIPES IN UNCONDITIONED SI</li> </ol>				
IN CONDITIONED SPACES $\frac{3}{4}$ " AND LARGER SHALL	BE INSULATED	TO AT LEAST R-3.		an an sea the production
ZONING ANALYSIS:	3F-2000	PROPOSED	COMMENTS	CONTEXT
	1,000 SF/UNIT		*VARIANCE REQUIRED	a collaborative design workshop
MIN. LOT WIDTH MIN. LOT FRONTAGE	20'-0" 20'-0"	25'-0" 25'-0"		East Boston, Massachusetts
MIN. LOT PRONTAGE MAX. BUILDING HEIGHT (STORIES/HEIGHT)	3 / 35'-0"	4 / 37'-6"	*VARIANCE REQUIRED	
MAX. BLDG AREA	30%	UNCHANGED	*VARIANCE REQUIRED	01 Issued for Permit 05/11/2021
MIN. FRONT YARD SETBACK	5'-0"	0'-0"	*VARIANCE REQUIRED	01         Issued for Permit         05/11/2021           02         Issued for BPDA Review         11/16/2021           03         Issued for BPDA Revision         12/22/2021
MIN. SIDE YARD SETBACK	2'-6"	0'-0"	*VARIANCE REQUIRED	No. Description Date
MIN. REAR YARD SETBACK	30'-0"	15'-0"	*VARIANCE REQUIRED	Drawing Title: ANALYSIS, DWG LIST, NOTES
OPEN SPACE REQUIREMENT	300 SF/UNIT 3 UNITS	39 SF/UNIT		Project No.: 0417 Checked by: EZ
PARKING REQUIREMENT	3 UNITS 1.0/ UNIT	6 UNITS 5 SPACES	*VARIANCE REQUIRED *VARIANCE REQUIRED	<b>A-01</b>
	1			
				© Context 2021











1 LOCATION PLAN SCALE: NOT TO SCALE



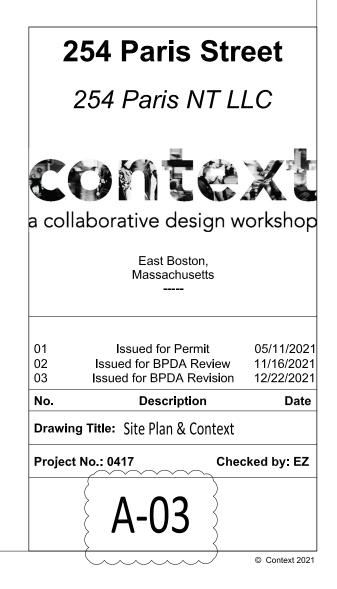
2 EXISTING VIEW OF SITE FROM PARIS STREET BETWEEN NEIGHTBORS AT 252 AND 256 SCALE: NOT TO SCALE

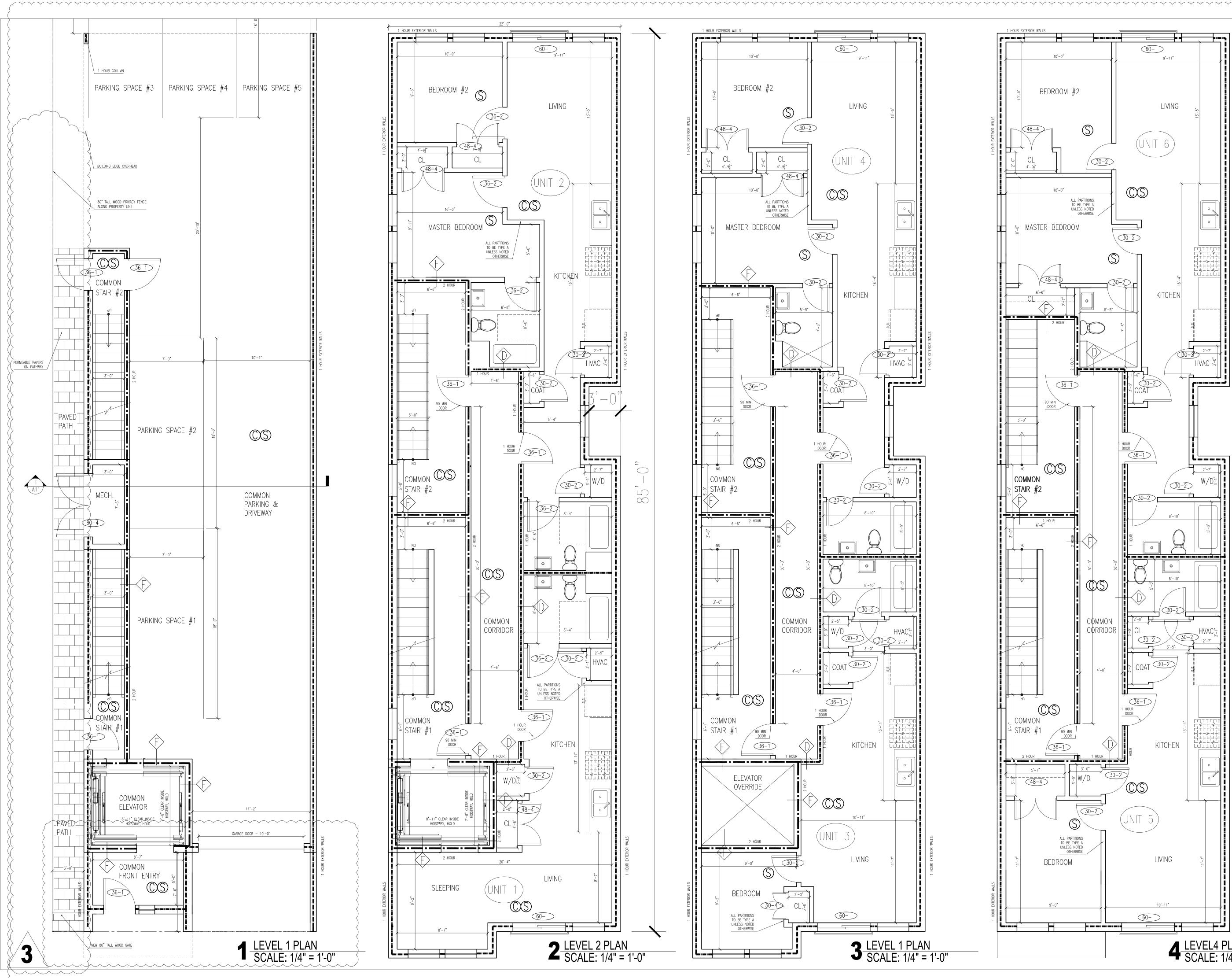


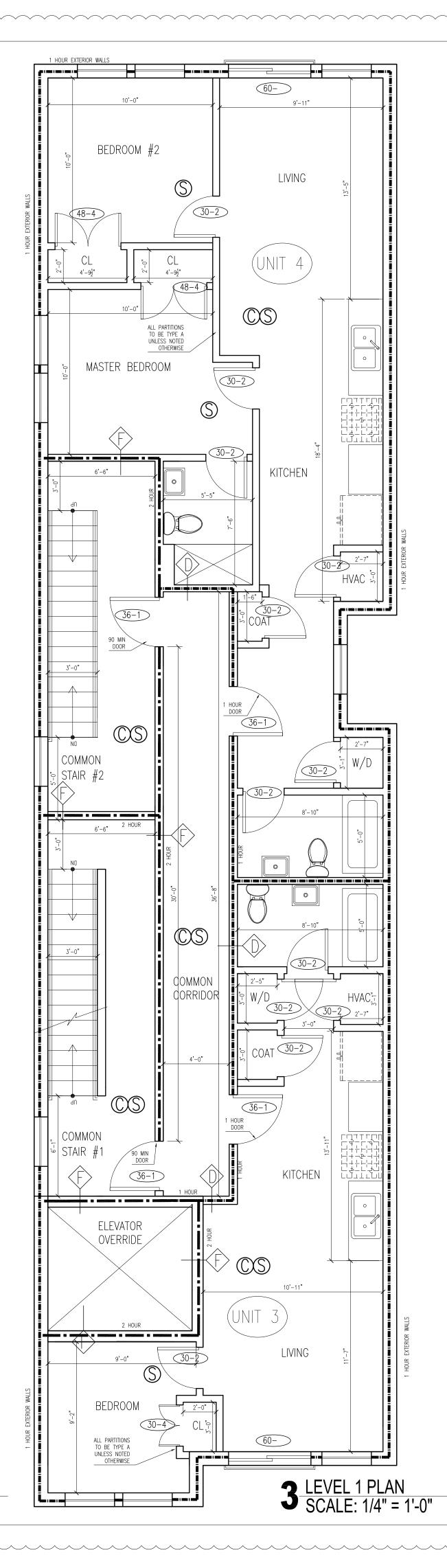


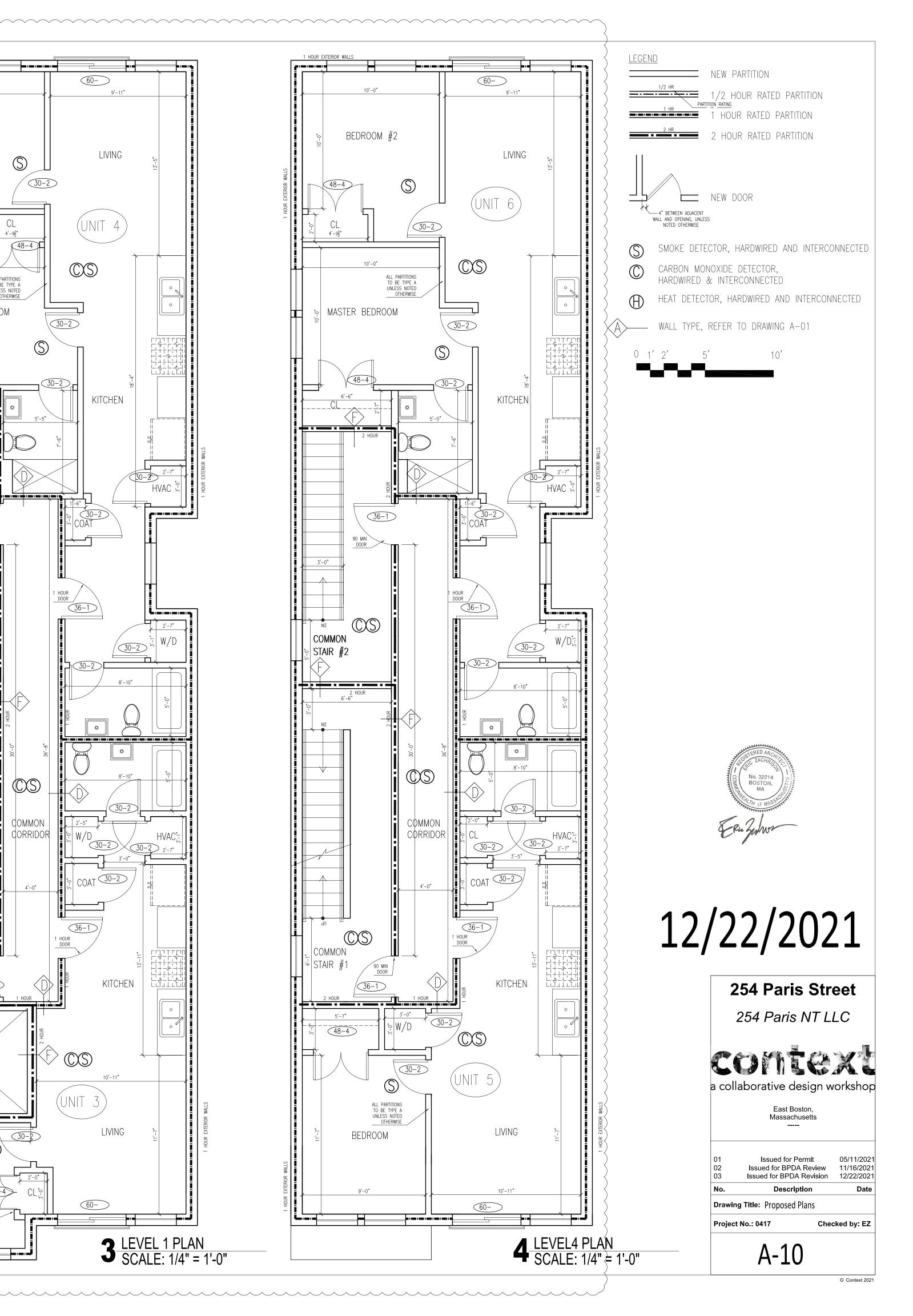


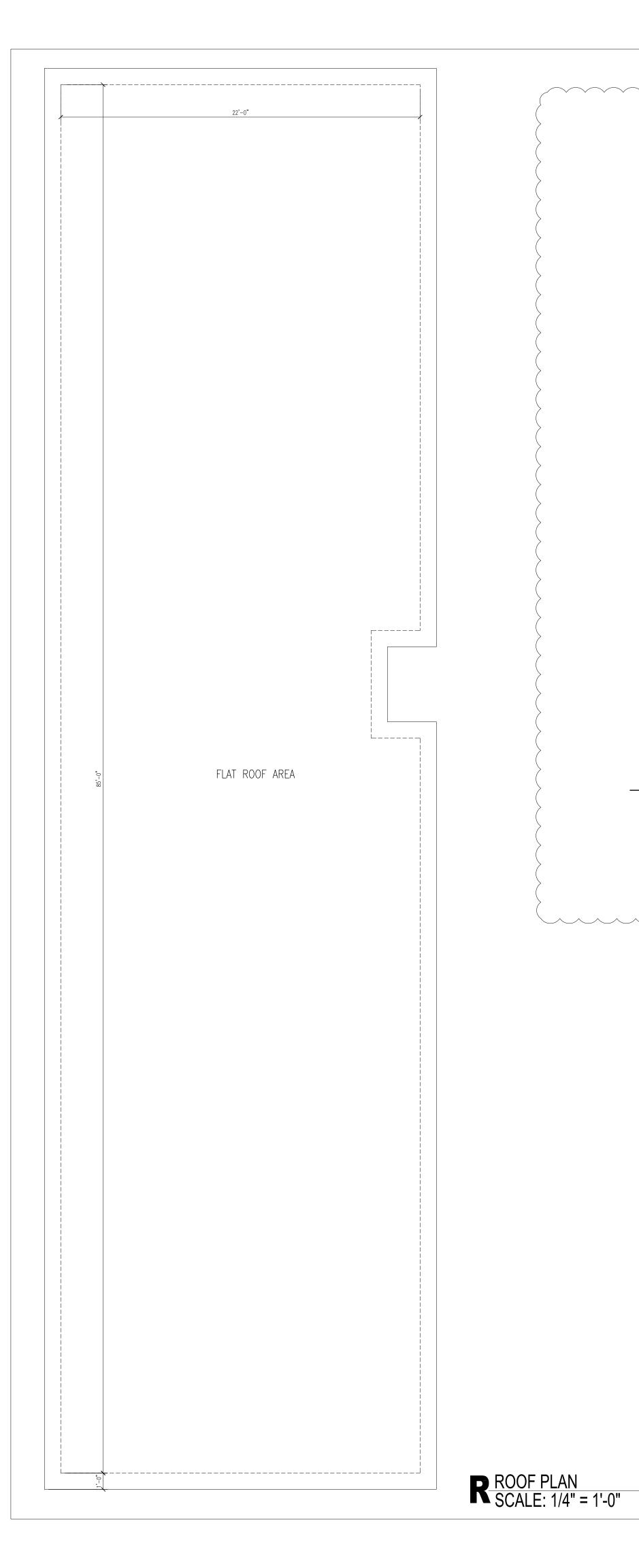


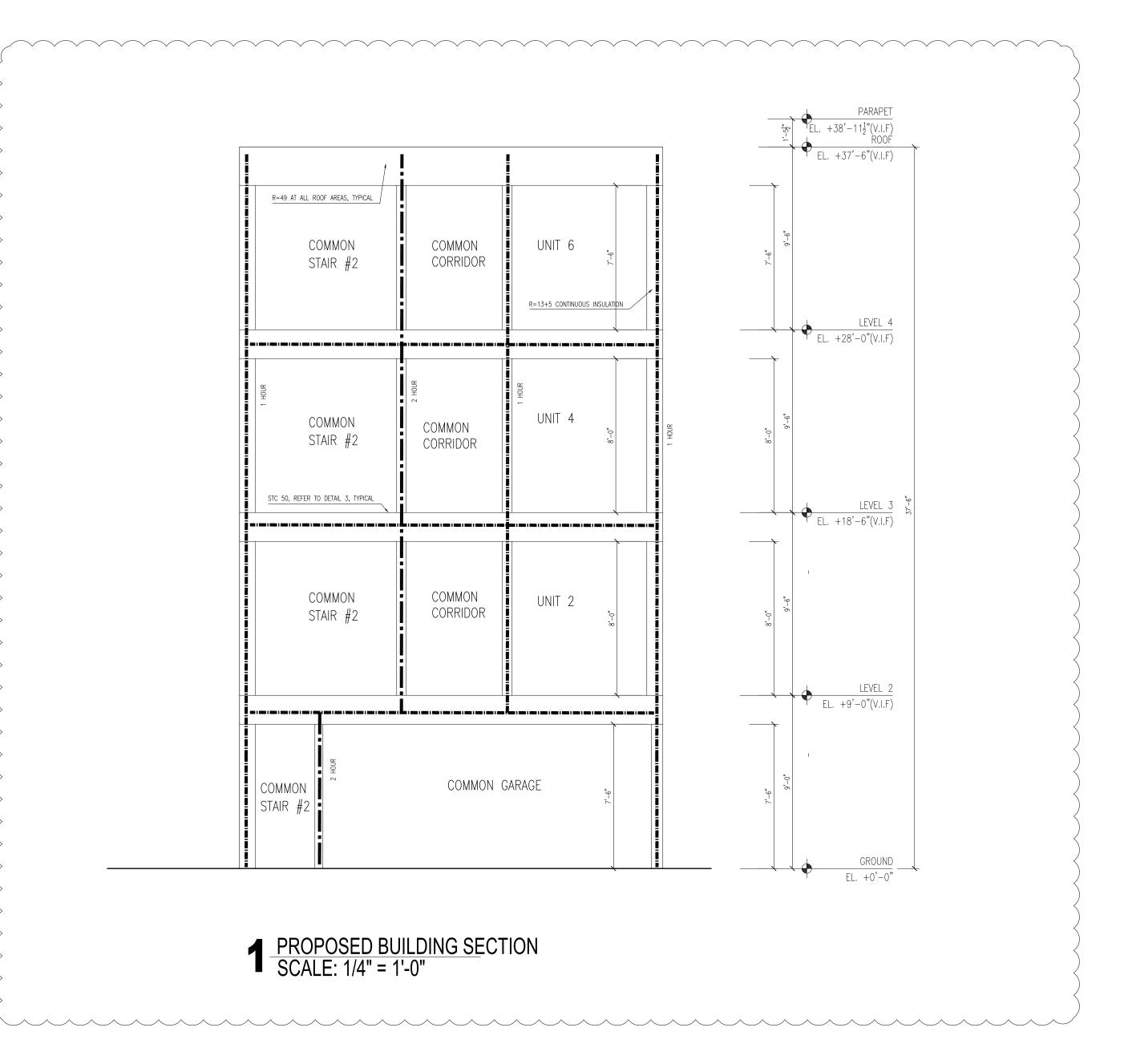




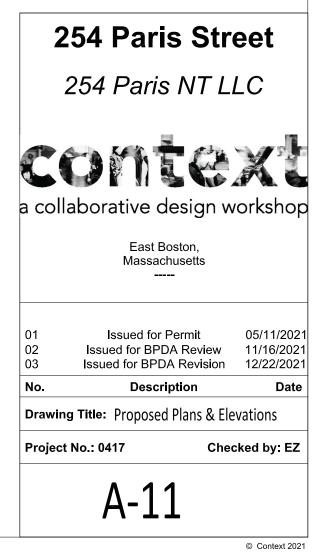






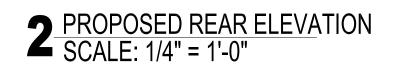




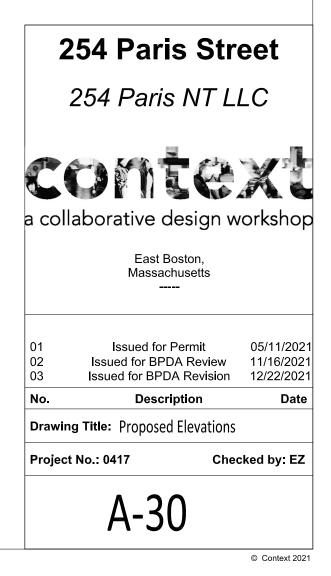




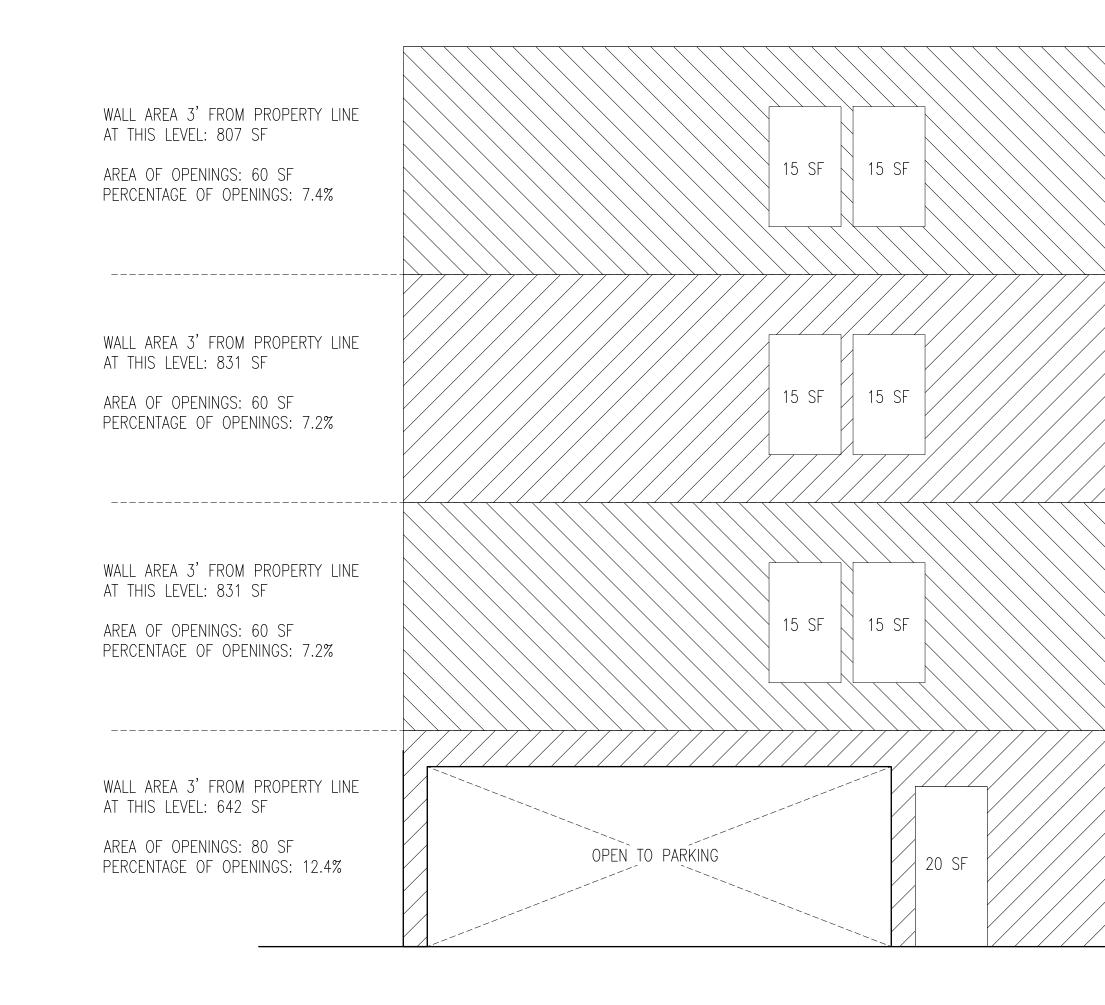


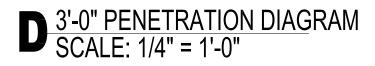


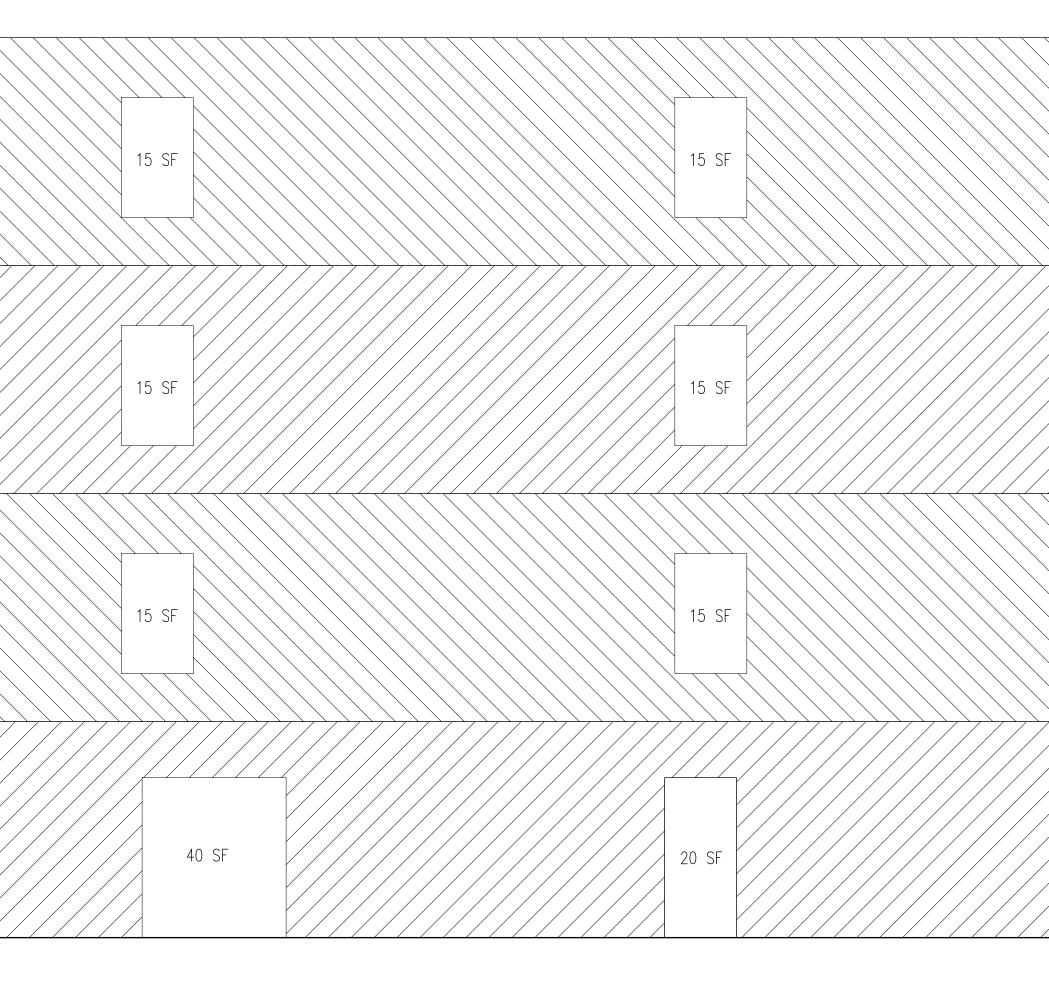


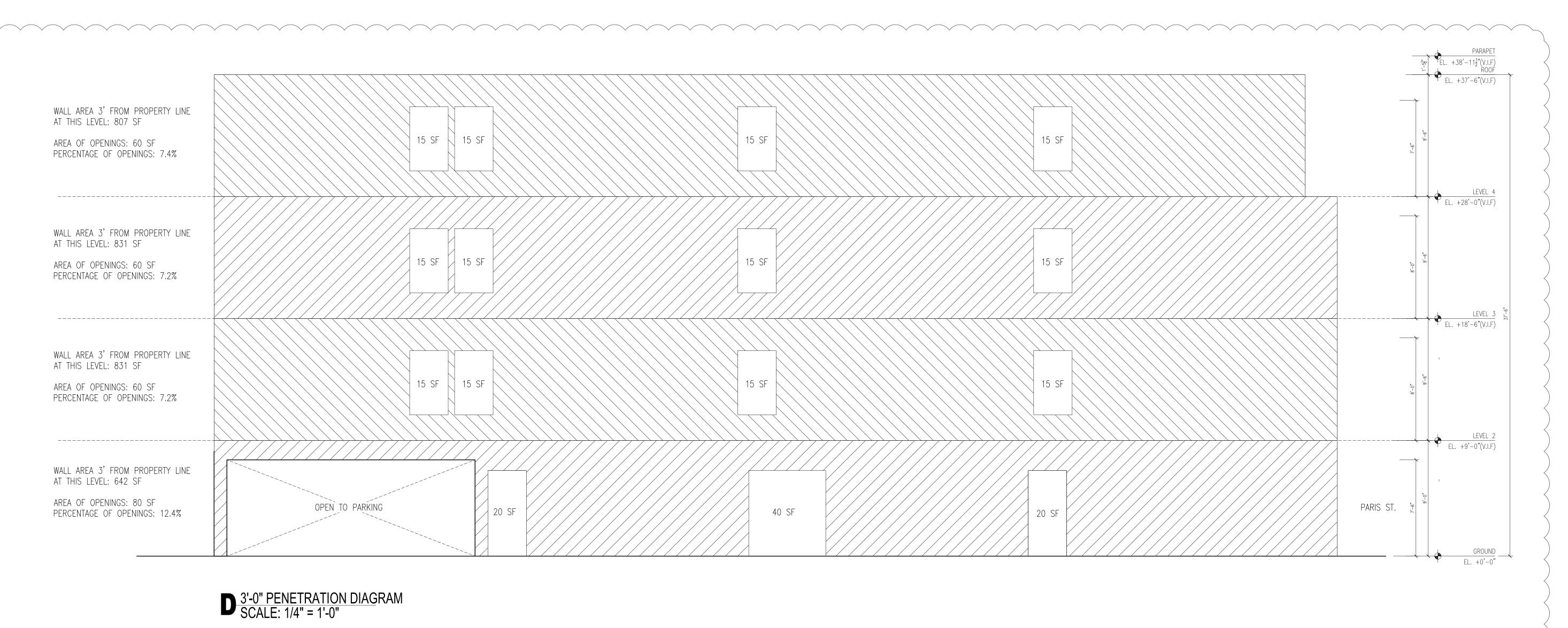




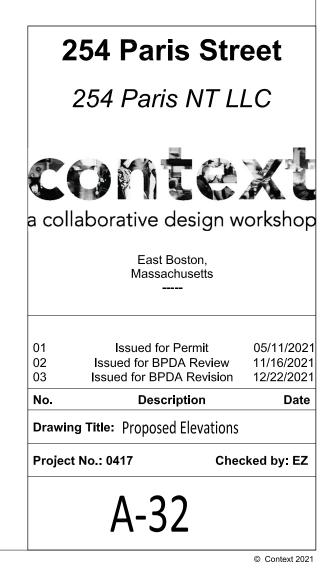








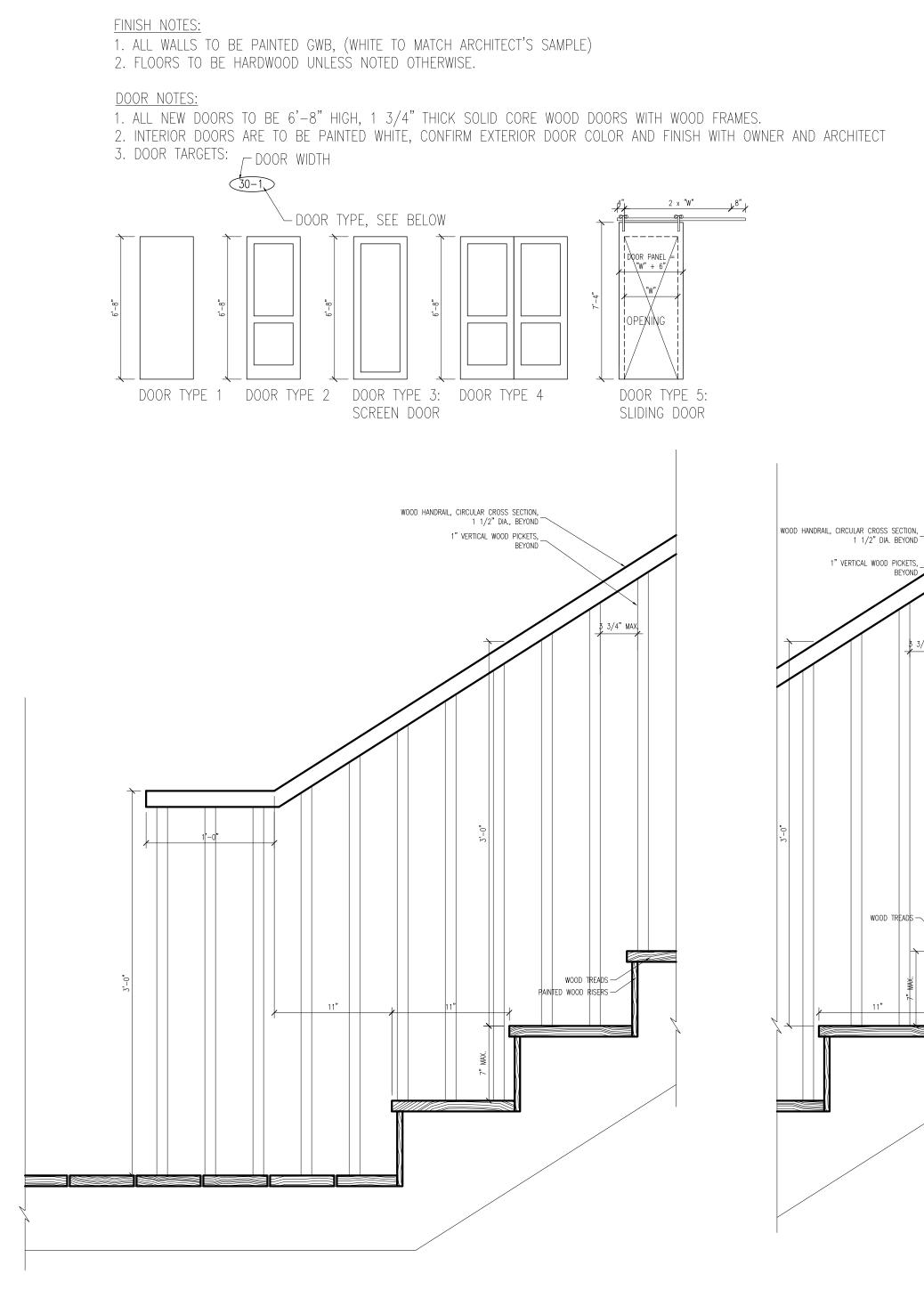




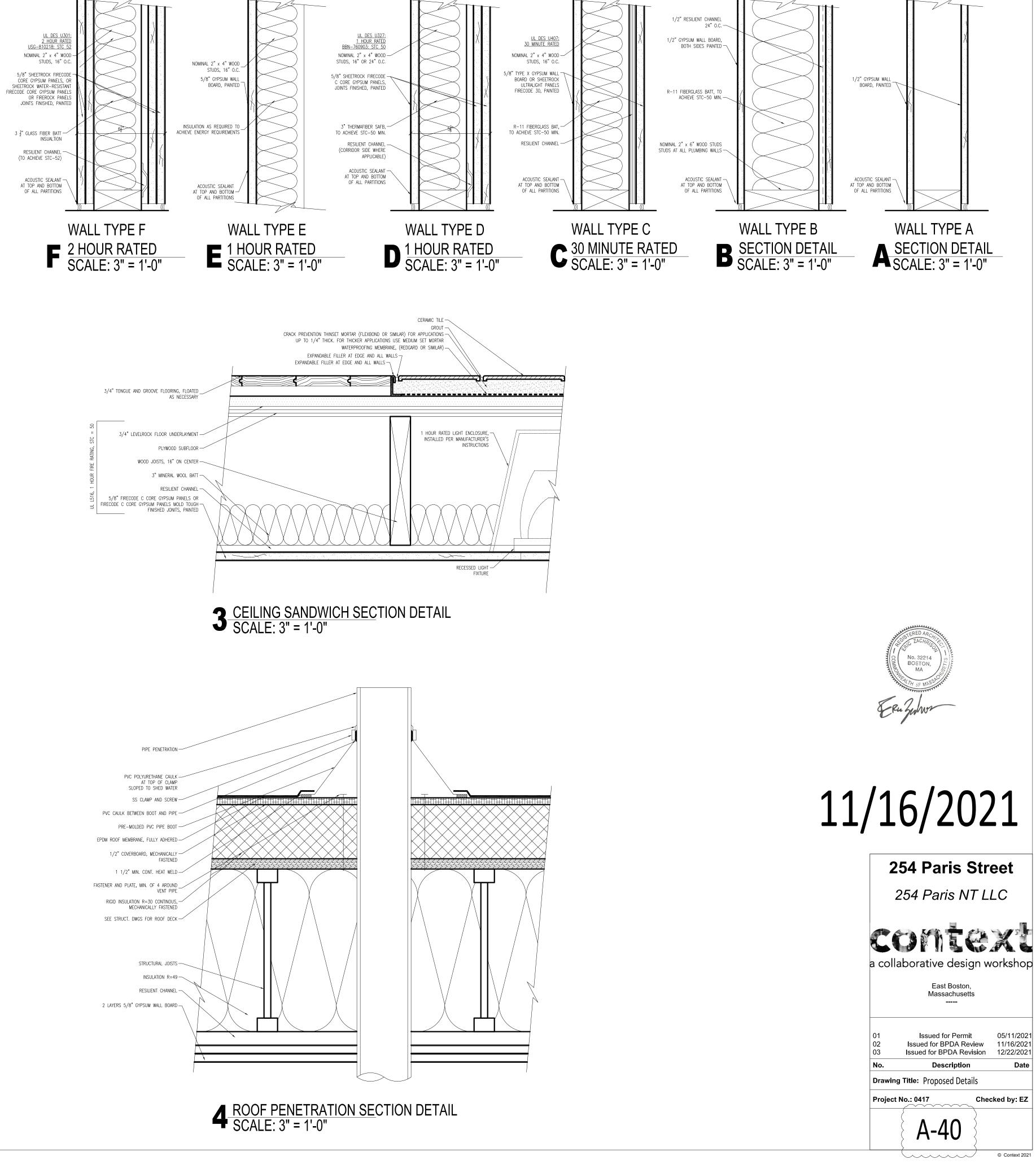


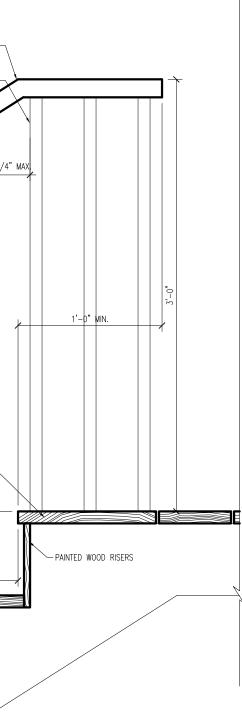


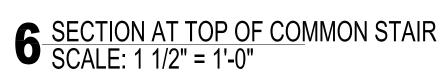
05/11/2021 Issued for BPDA Review 11/16/2021 Issued for BPDA Revision 12/22/2021 Date Checked by: EZ



**5** SECTION AT BASE OF COMMON STAIR SCALE: 1 1/2" = 1'-0"







### STRUCTURAL NOTES

### GENERAL NOTES

1. THE STRUCTURAL PLANS AND SPECIFICATIONS, TO THE BEST OF OUR KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2017 WITH MASSACHUSETTS AMENDMENTS.

2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE 2017 WITH MASSACHUSETTS

AMENDMENTS AND ALL APPLICABLE FEDERAL AND SATE CODES, STANDARDS, REGULATIONS AND LAWS.

3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE PLANS AND SPECIFICATIONS ARE ISSUED FOR PERMIT. 4. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY

IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.

5. IN ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER CONSULTANTS, PROJECT SHOP DRAWINGS AND FIELD CONDITIONS.

7. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE.

8. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

9. THE STRUCTURES ARE DESIGNED FOR THE FOLLOWING UNIFORMLY DISTRIBUTED LIVE LOADS:

PUBLIC ROOMS, STAIRS & CORRIDORS	100 LBS./SQ.FT.
KITCHENS	150 LBS./SQ.FT.
PARTITIONS	6 LBS./SQ.FT.
GATHERING ROOM	100 LBS./SQ.FT.
ROOF	30 LBS./SQ. FT. + DRIFTING
SEISMIC LOADS	

1. THE BUILDING STRUCTURAL FRAMES/ WALLS ARE DESIGNED USING THE EQUIVALENT LATERAL FORCE METHOD IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2003 W/ CONNECTICUT AMENDMENTS.

2. SEISMIC PARAMETERS: A. SPECTRAL ACCELERATIONS	Ss = 0.2 S1 = 0.0	
IMPORTANCE FACTOR B. SEISMIC DESIGN CATEGORY	I=1.00 "B"	)
SEISMIC RESISTING SYSTEM C. STEEL NOT SPECIFICALLY DETAILED FOR S	EISMIC	"R=3"
LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE		"R=6"
CONTROLING RESPONSE FACTOR USED FOR ENTIRE BUILDING STRUCTURE (PER ASCE-7 SECTION 9.5.2)		"R=3"
WIND LOADS BASIC WIND SPEED (3 SECOND GUST) EXPOSURE = "C"	= 105 M	РН.
SNOW LOADS GROUND SNOW LOAD		F & DRIFTING ASCE 7-02.

NOTES:

1. TOP OF 1ST FLOOR DECK AT ELEV. [+12'-0"].

2. PROVIDE MID-SPAN BRIDGING FOR ALL FLOOR JOISTS. BRIDGING SHALL CONSIST OF 1X3 LUMBER DOUBLE NAILED AT EACH END.

3. SW DENOTES SHEAR WALL LOCATION. PROVIDE 15/32 DOUG FIR STRUCTURAL | RATED PLYWOOD SHEATHING WITH EXTERIOR GLUE ON ONE SIDE OF WALL STUDS. FASTEN PLYWOOD TO STUDS WITH 10d COMMON NAILS AT 4 O.C. AT ALL PANEL EDGES (BLOCKING AT EDGES S REQUIRED) AND 12 O.C. IN FIELD. PROVIDE 1 %% NAIL PENETRATION INTO ALL FRAMING MEMBERS AND BLOCKING.

SEE TYPICAL HOLD DOWN ANCHOR DETAIL.

4. PA/PB DENOTES POST ABOVE/BELOW.

SEE SCHEDULE OF POST TYPES.

5. PLYWOOD FLOOR SHEATHING SHALL BE 3/4 NOMINAL TONGUE AND GROOVE PLYWOOD (APA STRUCTURAL | RATED SHEATHING 48/24 SPAN RATING WITH EXTERIOR GLUE). PROVIDE (1) ROW OF 10d COMMON NAILS AT 4" O.C. AT ALL PANEL EDGES. PROVIDE 10d COMMON NAILS AT 12° O.C. IN FIELD. PROVIDE 1 16" NAIL PENETRATION INTO ALL FRAMING MEMBERS.

### FOUNDATION NOTES

1. FOUNDATIONS SHALL BE DESIGNED FOR 4,000 PSF STATIC BEARING CAPACITY. 2. CONTRACTOR SHALL BE FAMILIAR WITH THE SUBSURFACE CONDITIONS AND

3. DOWELS FROM FOOTINGS INTO PIERS AND WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBER AS VERTICAL REBAR IN PIERS AND WALLS, AND SHALL BE EXTENDED "LTE" INTO FOOTINGS AND "LTS" INTO PIERS AND WALLS UNLESS OTHERWISE SHOWN.

GEOTECHNICAL REPORT BEFORE COMMENCING EXCAVATION.

4. DROP BOTTOM OF WALLS AND PIERS TO TOP OF FOOTINGS TO OBTAIN FULL EXTENT OF CONTACT, UNLESS OTHERWISE SHOWN.

5. CENTERLINE OF FOOTINGS SHALL BE CENTERLINE OF WALLS, PIERS AND COLUMNS, UNLESS OTHERWISE SHOWN.

6. NO BACKFILLING SHALL BE DONE AGAINST FOUNDATION AND RETAINING WALLS UNTIL CONCRETE HAS ATTAINED AT LEAST 75% OF ITS DESIGN STRENGTH. BEFORE BACKFILLING, PROVIDE BRACING FOR WALLS SUSTAINING MORE THAN 3 FEET OF EARTH PRESSURE. THIS BRACING SHALL REMAIN IN PLACE UNTIL ALL SLABS AND BEAMS FRAMING INTO WALL HAVE BEEN PLACED AND SET.

7. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 5 FEET FROM ANY FOUNDATION WALL. IF IT IS NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8 FEET TO THE WALL, THE CONTRACTOR SHALL BE THE SOLE RESPONSIBLE PARTY AND AT THEIR OWN EXPENSE SHALL PROVIDE ADEQUATE SUPPORTS OR BRACE THE WALL TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT

8. CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIEBACKS AND BRACING.

9. METHODS EMPLOYED IN ALL SHEETING AND SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

10. MATERIAL FOR CONTROLLED FILL SHALL MEET THE FOLLOWING CRITERIA: SELECT EXCAVATED GRAVEL OR STONE MATERIALS FREE OF ORGANIC MATERIAL, LOAM, TRASH, SNOW, ICE, FROZEN SOIL, AND OTHER OBJECTIONABLE MATERIAL, CONFORMING TO THE GRADATION REQUIREMENTS AS FOLLOWS:

SIEVE SIZE %	PASSING (BY WEIGHT)
3-1/2"	100%
3/4"	50-100%
<b>#</b> 4	25-75%

THE FRACTION PASSING THE NO. 200 SIEVE SHALL BE LESS THAN 15% OF THE FRACTION PASSING THE NO. 4 SIEVE.

11. ON-SITE EXCAVATED MATERIAL MAY ONLY BE SUITABLE FOR USE AS GRANULAR FILL IF IT CONFORMS TO THE SPECIFICATIONS NOTED AND IS APPROVED FOR USE BY THE GEOTECHNICAL ENGINEER. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.

12. STRUCTURAL FILL MATERIAL SHOULD BE PLACED IN UNIFORM 12" THICK LOOSE LIFTS AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY, AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557-93. IN RESTRICTED AREAS WHERE ONLY HAND-OPERATED EQUIPMENT IS PERMITTED, THE MAXIMUM LOOSE LIFT SHALL BE 8".

13. SOIL COMPACTION SHALL BE CONTROLLED BY A QUALIFIED TESTING LABORATORY OR GEOTECHNICAL ENGINEER. TAKE A MINIMUM OF ONE FIELD DENSITY TEST FOR EACH LAYER. LOCATION OF TEST SHALL BE DETERMINED BY THE TESTING AGENCY

FORMWORK AND SHORING NOTES

1. SHORES SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT. DRAWINGS ILLUSTRATING THE SHORING SYSTEM AND SEQUENCING SHALL BE SIGNED AND SEALED BY SAID FNGINFFR

2. DESIGN AND ERECT FORMS AND SHORES IN ACCORDANCE WITH ACI-347 DESIGN FORMS AND SHORES FOR HORIZONTAL CONCRETE MEMBERS FOR NOT LESS THAN DEAD LOAD PLUS 50 PSF CONSTRUCTION LOAD AND FOR THE CUMULATIVE LOADS OF SUPPORTING FLOOR SLABS. DESIGN SHORES WITH A MIN. FACTOR OF SAFETY OF 3.

3. PROVIDE TEMPORARY BRACING AS NEEDED TO ENSURE STABILITY OF STRUCTURE DURING CONSTRUCTION.

4. FORMING, SHORING AND RE-SHORING SHALL BE INSPECTED BY THE PROFESSIONAL ENGINEER WHO PREPARES THE SAID DRAWINGS. THEY SHALL SUBMIT A STATEMENT TO THE ENGINEER THAT THIS

NOTES:

1. BOTTOM OF FOUNDATIONS SHALL BEAR AT ELEVATION [+5'-0"], UNLESS NOTED AS THUS: B.F.E. [+X'-X"], SEE SITE PLAN FOR EXISTING AND PROPOSED GRADES.

2. TOP OF PIER ELEVATION [+9-5 4], UNLESS NOTED AS THUS: T.O.P. [+X'-X"]. ADJUST PIER HEIGHT AS REQUIRED TO MATCH EXISTING FINISHED FLOOR ELEVATIONS.

3. ALL DEFORMED STEEL REINFORCING BARS SHALL BE EPOXY COATED.

4, ANCHOR BOLTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. THE CONTRACTOR SHALL USE TEMPLATES TO SET ANCHOR BOLTS. "WET-SETTING" OF ANCHOR BOLTS WILL NOT BE PERMITTED.

5. PROVIDE PRESERVATIVELY TREATED LUMBER WHERE IN CONTACT WITH CONCRETE FOUNDATIONS, TYPICAL.

6. F- DENOTES FOOTING TYPE. REFER TO FOOTING SCHEDULE = ON THIS SHEET. 7. P- DENOTES CONCRETE PIER TYPE. REFER TO PIER SCHEDULE ON THIS SHEET.

### REINFORCED CONCRETE NOTES

1. STRUCTURAL CONCRETE AND CONCRETING PRACTICES SHALL CONFORM WITH ACI-318 AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE LATEST EDITION. DETAILS SHALL BE IN ACCORDANCE WITH ACI-315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL ACI REQUIREMENTS FOR HOT AND COLD WEATHERING CONCRETING MUST BE ADHERED TO.

2. CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:

A. FOUNDATIONAL WALLS, BUTTRESSES, SLAB ON GRADE: 4000 PSI, NORMAL WEIGHT

FOOTINGS AND PIERS:	4000	PSI,	NORMAL	WEIGHT
CONCRETE ON METAL DECK:	4000	PSI,	NORMAL	WEIGHT
ALL OTHER CONCRETE:	4000	PSI,	NORMAL	WEIGHT

4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS REQUIRED TO BE WELDED AS SHOWN ON PLANS. ALL REINFORCING BARS

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. SUPPORT WIRE FABRIC WITH CHAIRS OR LIFTS, DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB.

6. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.

7. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE DRAWINGS. SPLICING & EMBEDMENTS SHALL BE IN ACCORDANCE W/ ACI 318 WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, ALL REINFORCING BARS SHALL BE LAPPED USING THE TENSION SPLICE LENGTHS IN THE LAP SPLICE SCHEDULE:

A. LAP GRADE BEAM AND WALL TOP HORIZONTAL REINFORCEMENT AT CENTER OF SPAN.

B. LAP GRADE BEAM AND WALL BOTTOM HORIZONTAL REINFORCEMENT AT SUPPORT.

C. LAP INSIDE FACE WALL VERTICAL REINFORCEMENT AT SUPPORT

D. LAP OUTSIDE FACE VERTICAL WALL REINFORCEMENT AT MID-HEIGHT OF WALL. E. UNLESS OTHERWISE NOTED, TERMINATE BARS AT DISCONTINUOUS ENDS

WITH STANDARDS HOOKS. F. ALL HOOKED BARS NOT DIMENSIONED SHALL BE STANDARD HOOKS.

8. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

SLABS:	3/4 INCH
WALLS:	1 INCH
COLUMNS: 1-	1/2 INCHES
ALL CONCRETE EXPOSED TO WEATHER OR EARTH:	2 INCHES

E. ALL CONCRETE PLACED AGAINST EARTH: 3 INCHES

9. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI-318, CHAPTER 6.4. SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION JOINT DETAILS, LOCATIONS AND THE SEQUENCE OF POURS FOR THE STRUCTURAL ENGINEER'S REVIEW PRIOR TO BEGINNING WORK.

10. WALL AND GRADE BEAM CONSTRUCTION JOINTS SHALL BE LOCATED TO PROVIDE A 60 FOOT MAXIMUM LENGTH OF CONCRETE PLACEMENT.

11. VERTICAL CONSTRUCTION JOINTS IN GRADE BEAMS AND WALLS SHALL BE USED ONLY WITH PRIOR APPROVAL OF THE ENGINEER, SEE NOTE 9 ABOVE, AND SHALL BE LOCATED AS FOLLOWS:

A. FOUNDATION WALLS: MINIMUM 8'-O" FROM ANY COLUMN LINE OR WALL OPENING. B. GRADE BEAMS: AT CENTERLINES BETWEEN SUPPORTS.

12. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING PRIOR TO CONSTRUCTION BY THE ENGINEER.

13. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.

14. THE CONTRACTOR SHALL PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF APPROVED SHOP DRAWINGS FOR FIELD USE.

15. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED TO 1/4INCH AMPLITUDE FOR THE ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS AND APPLY A BONDING AGENT AS REQUIRED. TO ACI RECOMMENDATIONS AND APPLY A BONDING AGENT AS REQUIRED.

16. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.

17. CONTRACTOR SHALL COORDINATE SLAB DEPRESSIONS FOR FLOOR FINISHES WITH THE ARCHITECTURAL DRAWINGS.

18. CONTRACTOR SHALL COORDINATE LOCATION OF FLOOR DRAINS, CURBS, CONCRETE PADS AND FLOOR DEPRESSIONS, ETC., WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.

19. CONTRACTOR SHALL COORDINATE LOCATION OF INSERTS, WELDED PLATES AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

20. HORIZONTAL PIPES OR CONDUITS PLACED IN SLABS SHALL NOT BE SPACED CLOSER THAN 3 X THE DIAMETER OF CENTER. PIPE AND CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN THE SLAB WITHIN 12 INCHES OF ANY COLUMN

21. CONTRACTOR SHALL USE RIGID STEEL TEMPLATES (SUPPLIED BY THE STEEL FABRICATOR) TO INSTALL ANCHOR RODS. 22. ALL STEEL MEMBERS TO BE ENCASED IN CONCRETE SHALL BE WRAPPED WITH A MINIMUM W.W.F. 6 X 6 - W2.9 X W2.9 REINFORCING, UNLESS OTHERWISE

23. ALL SLABS SHALL BE FLAT AND LEVEL PER THE CONCRETE SPECIFICATIONS. THE CONCRETE CONTRACTOR SHALL INCLUDE IN THEIR BID ANY EXCESS CONCRETE REQUIRED DUE TO SUPPORT MEMBER DEFLECTION TO POUR SLABS FLAT AND LEVEL. THE CONCRETE PLACING PROCEDURE SHALL BE CONTROLLED TO MINIMIZE SUPPORT MEMBER DEFLECTION.

### STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, ASD (LATEST EDITION).

2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION

3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED ON THE DRAWINGS:

A. ALL ROLLED SHAPES AND CHANNELS: ASTM A-572 OR A-992, MIN. YIELD STRENGTH OF 50 KSI

B. MISCELLANEOUS ANGLES: ASTM A-36, MIN YIELD STRENGTH OF 36 KSI C. HOLLOW STRUCTURAL STEEL SECTIONS

(TUBES AND PIPES): ASTM A500 GRADE B, MIN YIELD STRENGTH OF 42 KSI FOR PIPES AND 46 KSI FOR TUBES.

4. ALL CONNECTION MATERIAL AND BASE PLATES SHALL CONFORM TO ASTM STANDARD A-36 (36KSI), WITH 50-KSI STEEL PLATE WHERE NOTED.

5. ALL BOLTS SHALL CONFORM TO ASTM A325 OR A490, NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM A-F436. 6. ALL ANCHOR BOLTS/RODS SHALL CONFORM TO ASTM F-1554 GRADE 36 WITH

WELD ABILITY SUPPLEMENT S1, UNLESS OTHERWISE NOTED. SUBMIT GRADE CERTIFICATIONS FOR RECORD. STEEL SUPPLIER SHALL SUPPLY RIGID STEEL TEMPLATES FOR ANCHOR ROD INSTALLATION.

7. ALL SHOP OR FIELD BOLTED CONNECTIONS, SHALL BE BOLTED CONNECTIONS USING 3/4 INCH DIAMETER A325 N BOLTS IN STANDARD HOLES, UNLESS SPECIFICALLY NOTED OTHERWISE.

8. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.

9. ALL BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED.

10. ALL WELD BACK UP BARS SHALL BE REMOVED AND GROUND SMOOTH AFTER WELD IS COMPLETED, UNLESS NOTED OTHERWISE.

11. ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIDE SPECIFIED BY THE AISC MANUAL OF STEEL DESIGN. (SINGLE PASS AS REQUIRED)

12. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITIONS. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70. BARE ELECTRODES AND GRANULAR FLUX SHALL CONFORM TO A.W.S. A5.17, F70 A.W.S. FLUX **CLASSIFICATION** 

13. ALTERNATE CONNECTIONS WILL BE ACCEPTED ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF THE ACCEPTABILITY AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE SPECIFIC DETAILS SHOWN ON THE DRAWINGS. IN ANY EVENT THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS WHICH THEY PROPOSE.

14. SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED.

15. WHEN NOT SPECIFICALLY DETAILED ELSEWHERE ON THE DRAWINGS, ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DETAILED AS SHOWN IN THE TYPICAL BEAM CONNECTION DETAILS.

16. ALL BEAM AND GIRDERS SHALL BE CONNECTED FOR 115% OF THE REACTION DENOTED BY THE SYMBOL V ON THE PLAN. PROVIDE A MINIMUM 2 BOLT CONNECTION. IF NO REACTION IS GIVEN PROVIDE CONNECTION FOLLOWING NOTE 17 BELOW.

17. ALL BEAM AND GIRDER CONNECTIONS SHALL BE AT LEAST CAPABLE OF DEVELOPING THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER USING THE REACTION FROM THE ALLOWABLE LOAD OF BEAM AS TABULATED IN THE AISC MANUAL OF STEEL CONSTRUCTION LATEST EDITION UNLESS NOTED OTHERWISE. FOR COMPOSITE BEAMS MULTIPLY THE REACTION BY THE RATIO Str/S WHERE Str = SECTION MODULUS OF THE TRANSFORMED COMPOSITE CROSS SECTION WITH RESPECT TO THE BOTTOM FLANGE, AND S= SECTION MODULUS OF THE STRUCTURAL STEEL ALONE.

18. FILLER BEAMS SHOULD BE SPACED EQUALLY BETWEEN THE SUPPORTS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

19. ALL HOLES AND CUTS SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.

20. STEEL MEMBERS INDICATED ON THE DRAWINGS TO BE ENCASED IN CONCRETE SHALL BE UNPAINTED ON THE CONTACT SURFACES AND SHALL BE WRAPPED WITH A MINIMUM W.W.F. 6 X 6 - W2.9 X W2.9 REINFORCING UNLESS OTHERWISE NOTED.

21. THE STRUCTURAL STEEL CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATION WITH THE TOP OF CONCRETE ELEVATION.

22. THE MAXIMUM LOAD HUNG FROM ANY BEAM FOR MEP DUCTWORK, PIPING ETC SHALL BE DISTRIBUTED TO THE BEAM'S TRIBUTARY AREA IN A WAY THAT THE ALLOWABLE DESIGN LOADS LISTED IN THE GENERAL NOTES ARE NOT EXCEEDED. THE CONTRACTOR SHALL COORDINATE THE LOADS OF ALL TRADES AND PROVIDE ADDITIONAL SUPPORT OR DISTRIBUTION FRAMING AS REQUIRED TO ACHIEVE THESE LOADS.

23. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS AND DRAWINGS RELATED TO OTHER TRADES. THE GENERAL CONTRACTOR IS RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC., WITH THE WORK

OF THE OTHER TRADES. 24. PROVIDE ANY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE STRUCTURES AND INDIVIDUAL ELEMENTS UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.

25. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

26. ALL TUBE & PIPE SECTIONS EXPOSED TO WEATHER SHALL HAVE OPEN ENDS CAPPED WITH 1/4" PLATE.

27. ALL STRUCTURAL STEEL TO RECEIVE SPRAY APPLIED FIRE PROTECTION SHALL BE LEFT UNCOATED.

28. FOR EXPOSED INTERIOR STRUCTURAL STEEL, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.

29. STEEL FABRICATOR SHALL COORDINATE ALL HOLE LOCATIONS FOR SIMPSON TIE DOWN ANCHORS. ALL HOLES SHALL BE SHOP DRILLED THROUGH BEAM FLANGES.

A. ERECTION: GUIDING, BRACING, CONSTRUCTION LOADS, SCAFFOLDING, RIGGING CONSTRUCTION HOISTS AND CRANES, TEMPORARY SUPPORTS AND THEIR CONNECTIONS.

FDITION:

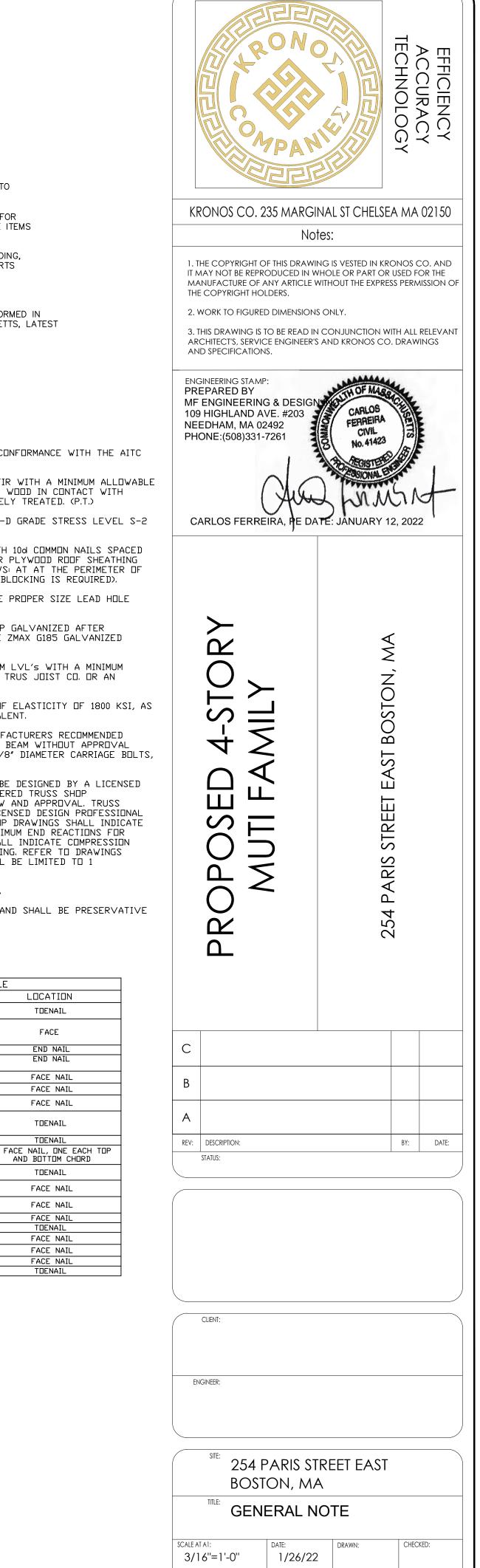
THE ROOF 4" D.C., AT PANEL EDGES AND 12" D.C. INTERMEDIATE. (BLOCKING IS REQUIRED). 5. ALL LAG BOLT CONNECTIONS SHALL BE PRE-DRILLED WITH THE PROPER SIZE LEAD HOLE DIAMETER IN ACCORDANCE WITH THE AITC TIMBER MANUAL

6. ALL TIMBER FRAMING CLIPS AND FASTENERS SHALL BE HDT DIP GALVANIZED AFTER FABRICATION, ALL SIMPSON STRONG TIE CONNECTORS SHALL HAVE ZMAX G185 GALVANIZED COATINGS.

7. ALL STRUCTURAL COMPOSITE LUMBER (SCL) SHALL BE MICROLAM LVL'S WITH A MINIMUM MODULUS OF ELASTICITY OF 1900 KSI, AS MANUFACTURED BY THE TRUS JOIST CO. OR AN APPROVED EQUIVALENT.

360 DF SPAN.

18



PROJECT NO:

____

DRAWING NO S1

REVISION:

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### CONTRACTORS DESIGN RESPONSIBILITY

1. THE LISTED BELOW PROJECT ITEMS ASSOCIATED WITH FABRICATION. ERECTION AND CONTRACTORS MEANS AND METHODS AND REQUIRING STRUCTURAL DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR. 2. THE CONTRACTOR SHALL RETAIN THE SERVICES OF STRUCTURAL

PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT TO PERFORM THE DESIGN OF THESE ITEMS.

3. CALCULATIONS FOR ITEMS MARKED THUS (*) SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ENGINEER OF RECORD. OTHERWISE THE ITEMS SHALL ONLY BE SUBMITTED FOR THE OWNERS RECORD:

SPECIAL INSPECTIONS

THE FOLLOWING CONTROLLED INSPECTIONS ARE REQUIRED TO BE PERFORMED IN ACCORDANCE THE BUILDING CODE OF COMMONWEALTH OF MASSACHUSETTS, LATEST

> CONCRETE CONSTRUCTION REINFORCED MASONRY CONSTRUCTION STEEL CONSTRUCTION

SPRAYED FIRE RESISTANT MATERIALS TIMBER CONSTRUCTION

TIMBER FRAMING NOTES

1. ALL TIMBER FRAME CONSTRUCTION SHALL BE DONE IN STRICT CONFORMANCE WITH THE AITC TIMBER CONSTRUCTION MANUAL, LATEST EDITION. 2. ALL TIMBER SHALL BE KILN-DRIED, #2 OR BETTER, DOUGLAS FIR WITH A MINIMUM ALLOWABLE

BENDING STRESS OF 1000 PSI OR AN APPROVED EQUIVALENT. ALL WOOD IN CONTACT WITH SDIL, WEATHER DR CONCRETE SURFACES SHALL BE PRESERVATIVELY TREATED. (P.T.) 3. ALL PLYWOOD DECKING OR SHEATHING SHALL BE APA RATED C-D GRADE STRESS LEVEL S-2

WITH EXTERIOR GLUE 4. EXTERIOR PLYWOOD WALL SHEATHING SHALL BE FASTENED WITH 100 COMMON NAILS SPACED AT 4" D.C. AT PANEL EDGES AND 12" D.C. INTERMEDIATE, EXTERIOR PLYWOOD ROOF SHEATHING SHALL BE FASTENED WITH 10d COMMON NAILS SPACED AS FOLLOWS: AT AT THE PERIMETER OF

8. ALL PARALLAM POST (PSL) SHALL HAVE A MINIMUM MODULUS OF ELASTICITY OF 1800 KSI, AS MANUFACTURED BY THE TRUS JOIST CO. OR AN APPORVED EQUIVALENT.

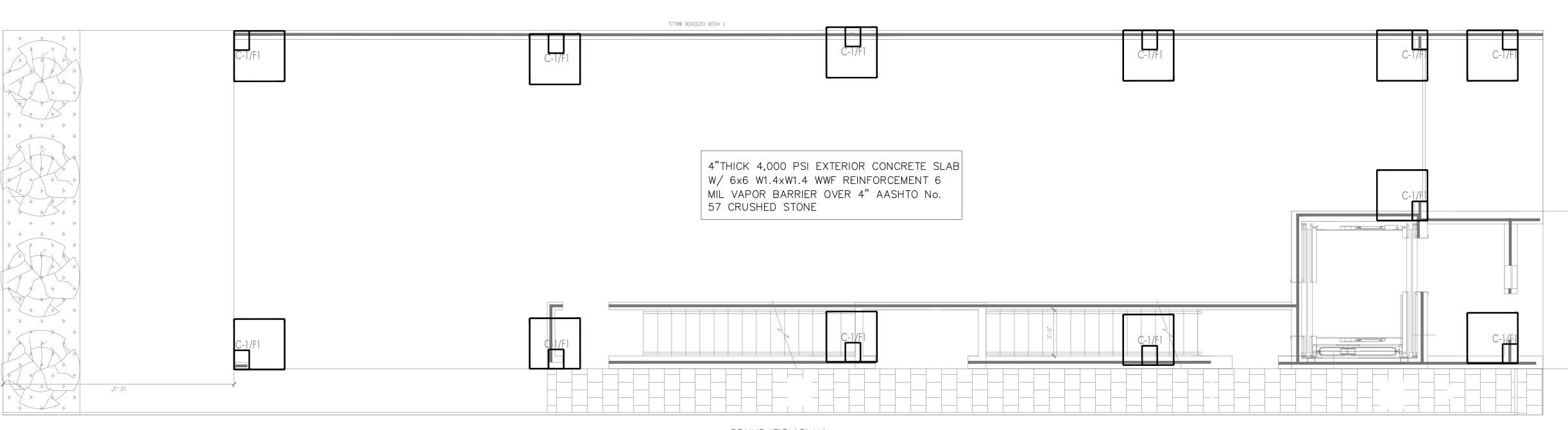
9. INSTALLATION OF LVL'S SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED PROCEDURES. DO NOT DRILL OR CUT ANY STRUCTURAL HEADER OR BEAM WITHOUT APPROVAL DF ARCHITECT/ENGINEER. LAMINATE MULITPLE-PLY LVL'S WITH 3/8" DIAMETER CARRIAGE BDLTS, TWO ROWS 16" ON CENTER.

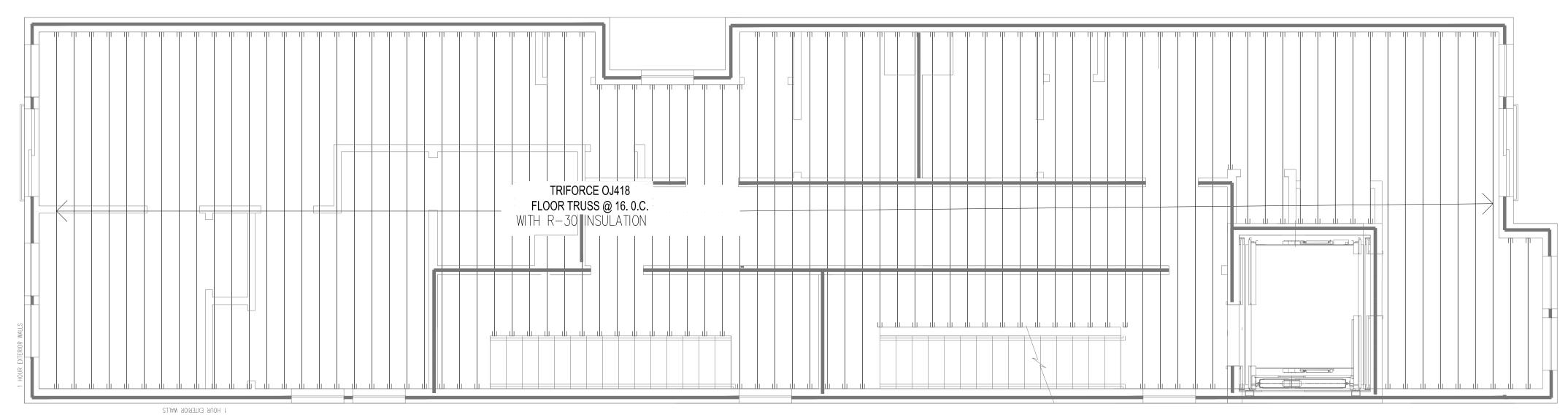
10. ENGINEERED METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL SUBMIT ENGINEERED TRUSS SHOP DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. TRUSS SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A LICENSED DESIGN PROFESSIONAL CURRENTLY REGISTERED FOR PRACTICE IN THE STATE OF CT. SHOP DRAWINGS SHALL INDICATE ALL LADING CASES CONSIDERED MAXIMUM DEFLECTIONS AND MAXIMUM END REACTIONS FOR EACH TYPICAL TRUSS CONFIGURATION, TRUSS SHOP DRAWINGS SHALL INDICATE COMPRESSION MEMBERS REQUIRING ADDITIONAL FIELD-INSTALLED LATERAL BRACING, REFER TO DRAWINGS S-002 AND S-003 FOR LOAD DIAGRAMS. TRUSS DEFLECTIONS SHALL BE LIMITED TO 1

11. PROVIDE TORQUE LOCKING NUTS AT ALL BOLTED CONNECTIONS.

12. LAMANITED BEAMS SHALL BE 24FV3 SOUTHERN YELLOW PINE AND SHALL BE PRESERVATIVE TREATED (P.T.).

TIMBER FRAMING FASTENING SCHEDULE										
CONNECTION	FASTENING	LOCATION								
FLOOR JOIST TO SILL OR WALL PLATE	4 - 8d COMMON	TDENAIL								
BOTTOM PLATE TO JOIST, RIM, OR BLOCKING	(2) RDWS DF 1 4× 4 1 2 SDS SCREWS @ 12″D.C.	FACE								
TOP PLATE TO STUD	2 - 16d COMMON	END NAIL								
STUD TO BOTTOM PLATE	2 - 160 COMMON + SIMPSON SP4 STUD	END NAIL								
DOUBLE STUD	16d COMMON @ 16" O.C.	FACE NAIL								
DOUBLE TOP PLATES	16d COMMON @ 16" O.C.	FACE NAIL								
DOUBLE TOP PLATES - LAP SPLICE	8 - 16d COMMON	FACE NAIL								
BLOCKING BETWEEN JOIST OR RAFTER TO TOP PLATE	3 - 80 C⊡MM⊡N	TDENAIL								
RIM JOIST TO TOP PLATE	100 COMMON @ 6" O.C.	TDENAIL								
FLOOR TRUSS TO RIM JOIST	2 - 100 COMMON	FACE NAIL, DNE EACH TOP AND BOTTOM CHORD								
CEILING JOIST TO TOP PLATE	3 - 10d COMMON	TDENAIL								
CEILING JDIST - LAPS DVER PARTITIDNS	4 - 160 COMMON	FACE NAIL								
CEILING JOIST TO PARALLEL RAFTERS	4 - 160 COMMON	FACE NAIL								
COLLAR TIE TO RAFTER	4 - 16d COMMON	FACE NAIL								
RAFTER TO PLATE	4 - 8d COMMON	TDENAIL								
LEDGER TO RIM JOIST	3 - 16d COMMON 24" O.C.	FACE NAIL								
LEDGER TO WALL STUD	3 - 16d COMMON 24" O.C.	FACE NAIL								
2X4 GYPSUM NAILER	8d COMMON 16" O.C.	FACE NAIL								
HEADER TO STUD	4 - 8d COMMON	TDENAIL								

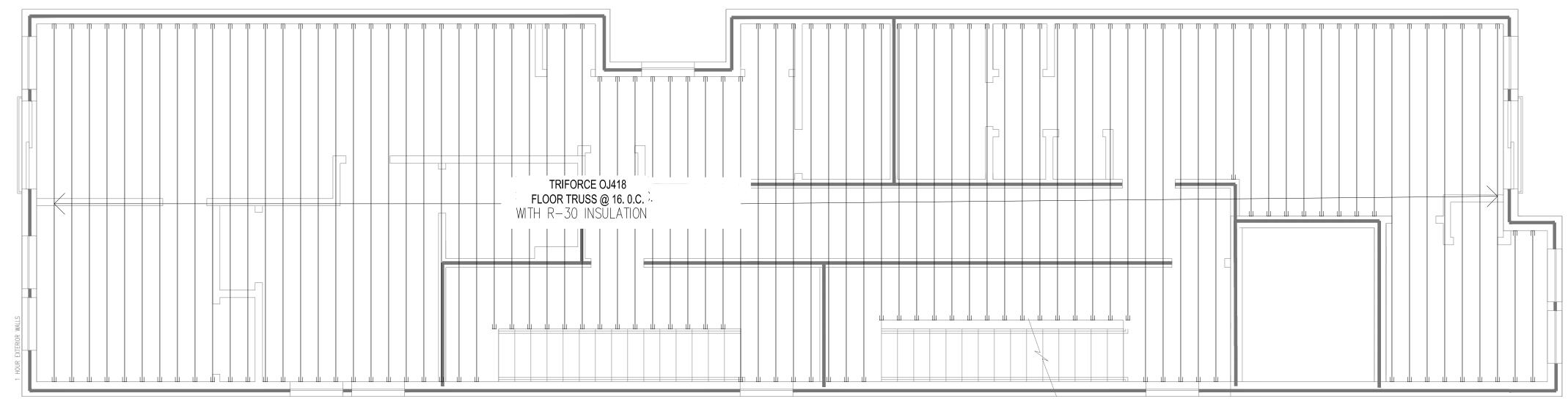


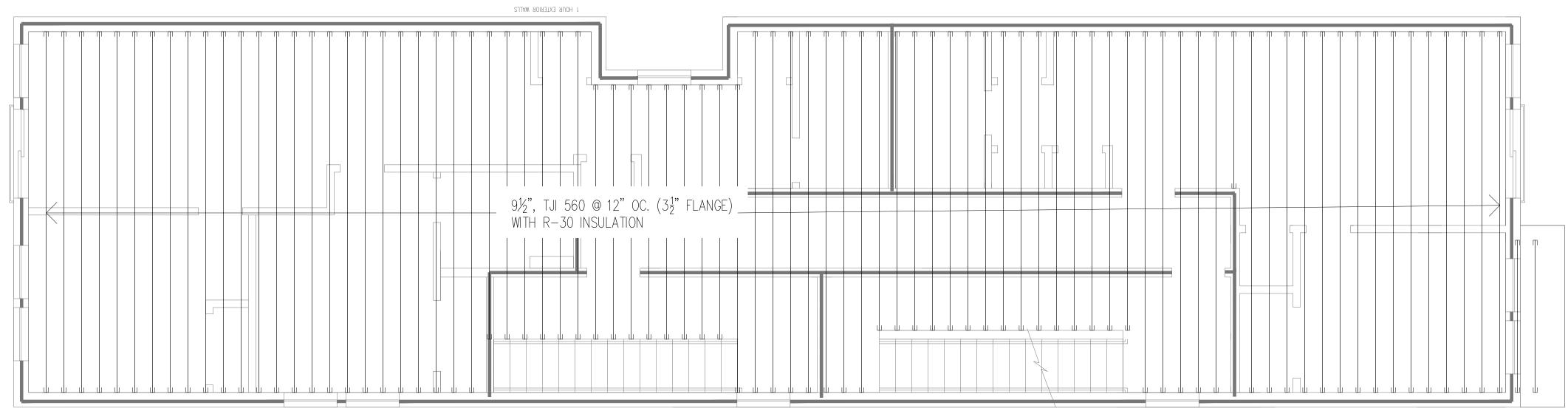


1)FOUNDATION PLAN

 $(2) \frac{\text{GROUND FLOOR FRAMING PLAN}}{1/4" = 1'}$ 

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BOSTC TITLE: FOUNI FLOOF	DATION	PLAN & C NG PLAN DRAWN:	GRC	
BOSTC TITLE: FOUNI FLOOF SCALE AT A1: 1/4"=1'-0"	DATION R FRAMI	NG PLAN		KED:





SECOND FLOOR FRAMING PLAN

 $\frac{1}{1/4''} = 1'$ 

RON CONTRACTOR		EFFICIENCY ACCURACY TECHNOLOGY
KRONOS CO. 235 MARGI No	NAL ST CHELSEA tes:	A MA 02150
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PROPOSED 4-STORY MUTI FAMILY	254 PARIS STREET EAST BOSTON, MA	
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CLIENT: ENGINEER:		
SITE: 254 PARIS ST		
BOSTON, MA SECOND FL THIRD FLOO	OOR AND	IG PI AN
SCALE AT A1:         DATE:           1/4"=1'-0"         1/26/22           PROJECT NO:         DRAWING NO:	DRAWN:	CHECKED: REVISION:
S3		)

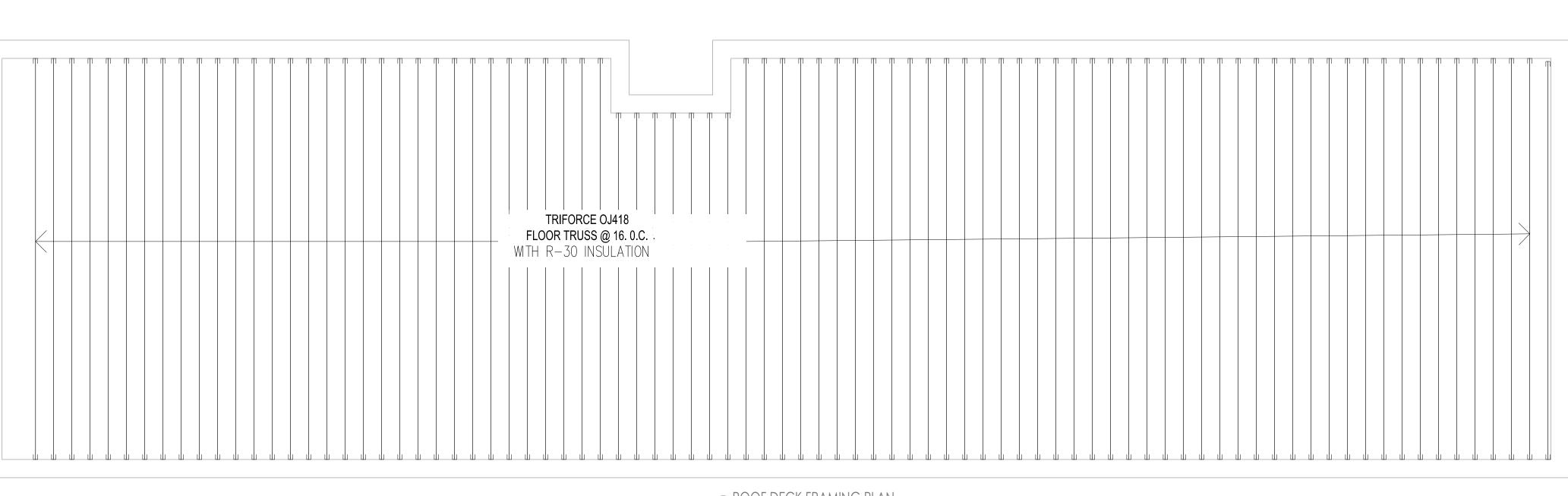
REACTIONS FROM SUPPORTED MEMBERS. 10. WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS: TOTAL LOAD DEFLECTION SPAN/240; LIVE LOAD DEFLECTION SPAN/ 360. 11. ALL GABLE ROOF GIRDER TRUSSES TO BE SUPPORTED @ EA END BY (3) 2x6 STUDS, EXTEND TO FOUNDATION. INSTALL TOP PL w/ (2) SIMPSON TBE6, TYP UNO.

- SOLID BLOCKING AT SECOND FLOOR. ATTACH GIRDER TRUSS TO
- 12. MASONRY @ ELEVATOR TO BE 8" CMU w/ #5V @ 48"O.C., TYP 13. ALL OVERHANGS ARE MEASURED FROM EXTERIOR FACE OF
- BUILDINGS. 14. REFERENCES: GENERAL STRUCTURAL NOTES - S001.
- 15. SYMBOL. LEGEND
  - INDICATES HEADER TYPE. SEE SCHEDULE ON SHEET S002.
- INDICATES TOP OF WALL OR BOTTOM OF BEAM

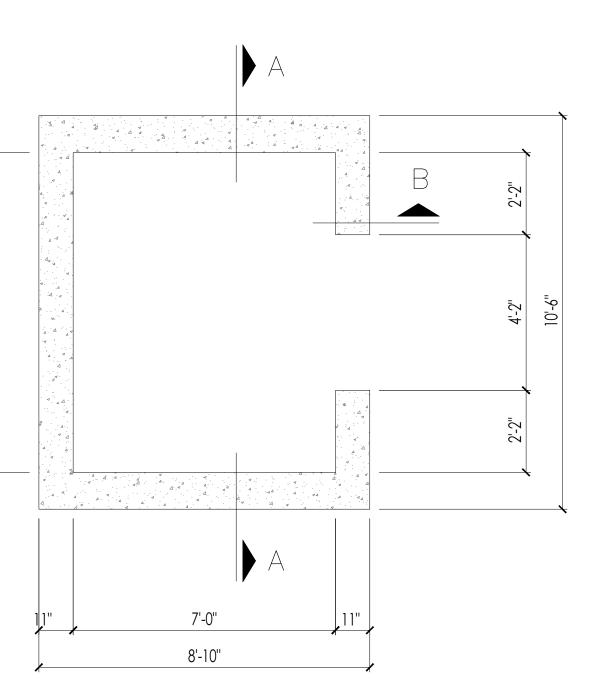
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105 PSF (NET UPLIFT) 45 PSF & DRIFTING GOVERNING BUILDING CODE LOADS SHALL BE COMBINED USING LOAD COMBINATIONS IN ACCORDANCE WITH THE GOVERNING BUILDING CODE. GIRDER TRUSSES SHALL BE DESIGNED FOR

- <u>LOAD</u> DEAD TOP CHORD 10 PSF BOTTOM CHORD 10 PSF LIVE 10 PSF 20 PSF WIND SNOW SEE PLAN FOR ADDITIONAL LOADS. TRUSSES SHALL BE DESIGNED FOR UNBALANCED AND DRIFTED SNOW IN ACCORDANCE WITH THE
- 8. SPACE WOOD TRUSSES AT 2'-0'' ON CENTER. TYPICAL UNLESS NOTED. 9. WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS.
- ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO DESIGNING AND FABRICATING TRUSSES.
- INTERMEDIATE SUPPORTS. 7. VERIFY ALL WOOD TRUSS DIMENSIONS AND GEOMETRIES WITH
- OF 2x6 STUDS 16"O.C. W/" PLYWOOD ONE SIDE MIN. WALLS ARE UNBLOCKED. INSTALL w/ 8d COMMON NAILS @ 6"O.C. AT SUPPORTED PANEL EDGES #8d COMMON NAILS @ 12"O.C. AT
- 6" DRYWALL SCREENS @ 6" O.C. AT SUPPORTED PANEL EDGES #6 DRYWALL SCREENS 12"O.C. AT INTERMEDIATE SUPPORTS. 6. SW3 INDICATES WALL AT EXTERIOR 4" AT STAIR. WALL CONSISTS
- 5. SW2 INDICATES WALL AT CORRIDOR. WALL CONSISTS OF 2x6 STUDS @ 16"O.C. w/ GYPSUM BOTH SIDES. WALLS ARE UNLOCKED. INSTALL w/
- SUPPORTED PANEL EDGES 4 #6 DRYWALL SCREENS @ 12" O.C. AT INTERMEDIATE SUPPORTS.
- INTERMEDIATE SUPPORTS. 3. TOP OF WALL @ TRUSS BRO ELEVATION 15 114'-10" TYP UNO. 4. SWI INDICATES SHEAR WALL AT INTERIOR. SHEAR WALL CONSISTS OF 2x4 STUDS @ 16"O.C. w/ GYPSUM ONE SIDE. WALLS ARE UNBLOCKED. INSTALL w/ #6. DRYWALL SCREENS @ 6" O.C. @
- CLIPS. PANEL INDEX 32/16". INTERIOR WITH EXTERIOR GLUE. EXPOSURE 1. INSTALL WITH 10D NAILS AT 6"O.C. AT SUPPORTED PANEL EDGES AND 10D NAILS @ 12"O.C. AT
- 1. DESIGN LIVE LOADS: ROOF SNOW LOAD BASED ON 45 PSF GROUND SNOW LOAD. 2. ROOF CONSTRUCTION: 14/32"APA RATED OSB. WITH EDGE
- ROOF DECK FRAMING NOTE

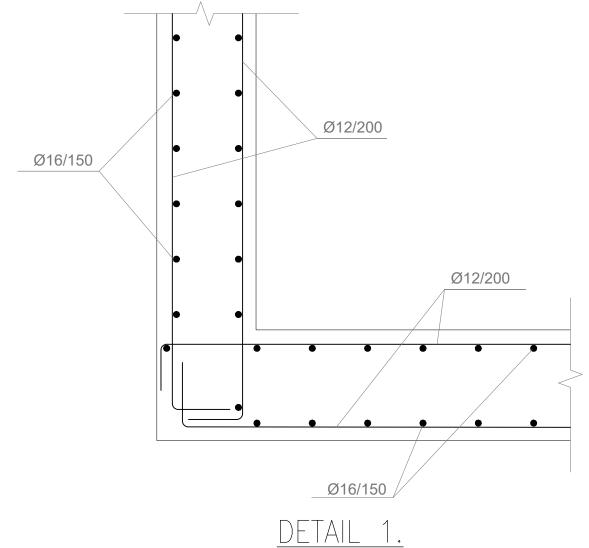


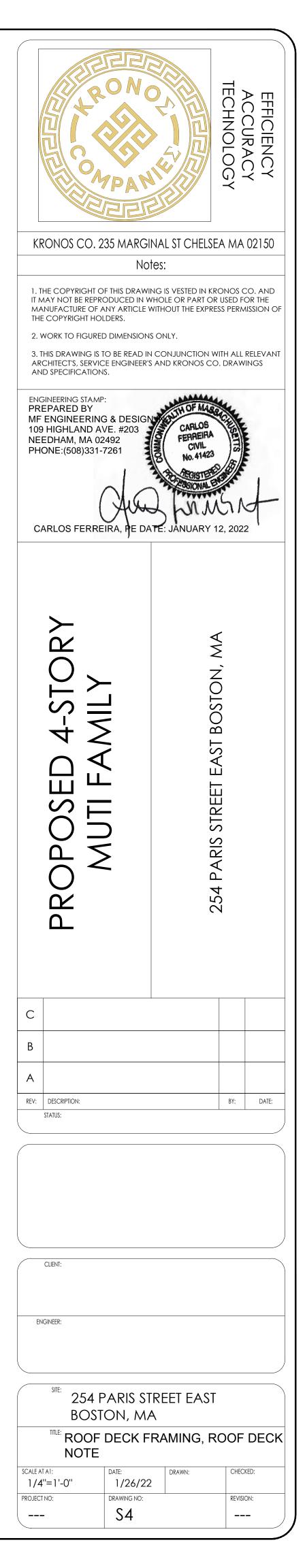
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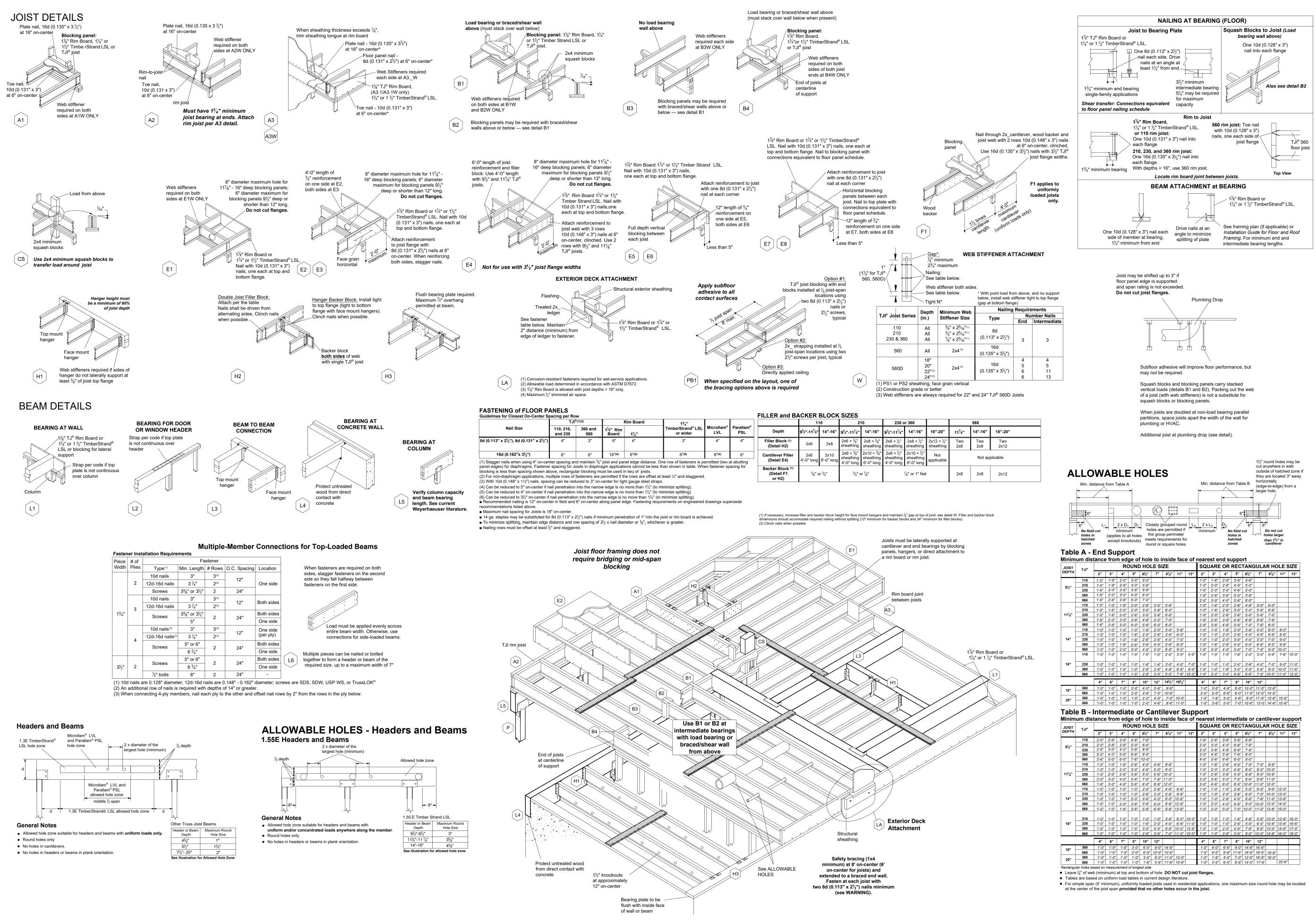


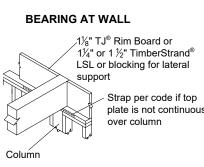


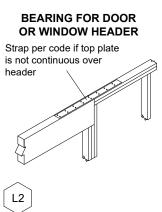
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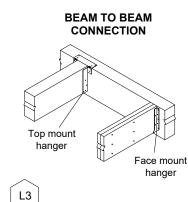


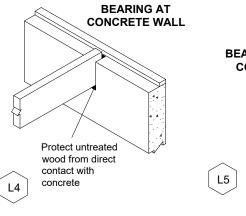




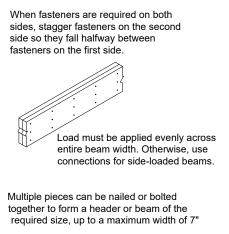


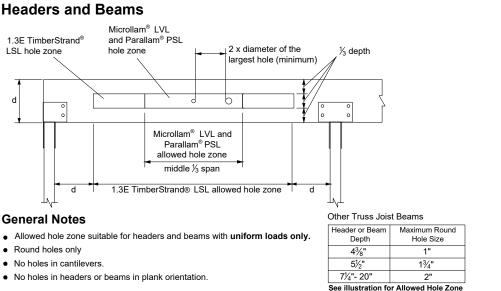




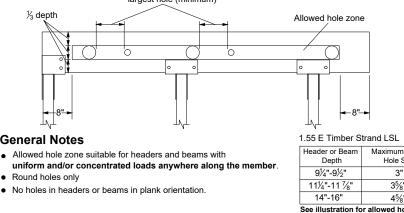


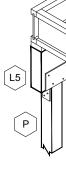
raster	ier mst	allation Require	menus				
Piece	# of		Fa	istener			
Width	Plies	Type ⁽¹⁾	Min. Length	# Rows	O.C. Spacing	Location	
		10d nails	3"	<b>3</b> ⁽²⁾	12"		
	2	12d-16d nails	3 1⁄4"	<b>2</b> ⁽²⁾	12	One side	
		Screws	3 ³ / ₈ " or 3 ¹ / ₂ "	2	24"		
		10d nails	3"	<b>3</b> ⁽²⁾	40"	Dath aidea	
	3	12d-16d nails	3 1⁄4"	2 ⁽²⁾	12"	Both sides	
1¾"	5	Screws	3 ³ / ₈ " or 3 ¹ / ₂ "	2	0.4"	Both sides	
		Ocicwa	5"	2	24"	One side	
		10d nails ⁽³⁾	3"	<b>3</b> ⁽²⁾	40"	One side	
	4	12d-16d nails(3)	3 1⁄4"	2 ⁽²⁾	12"	(per ply)	
	4	Screws	5" or 6"	2	0.4"	Both sides	1
		Ocicwa	6 ¾"	2	24"	One side	
			5" or 6"	0	0.4"	Both sides	ĹĹ
3½"	2	Screws	6 ³ ⁄4"	2	24"	One side	$>$
		½" bolts	8"	2	24"	-	1





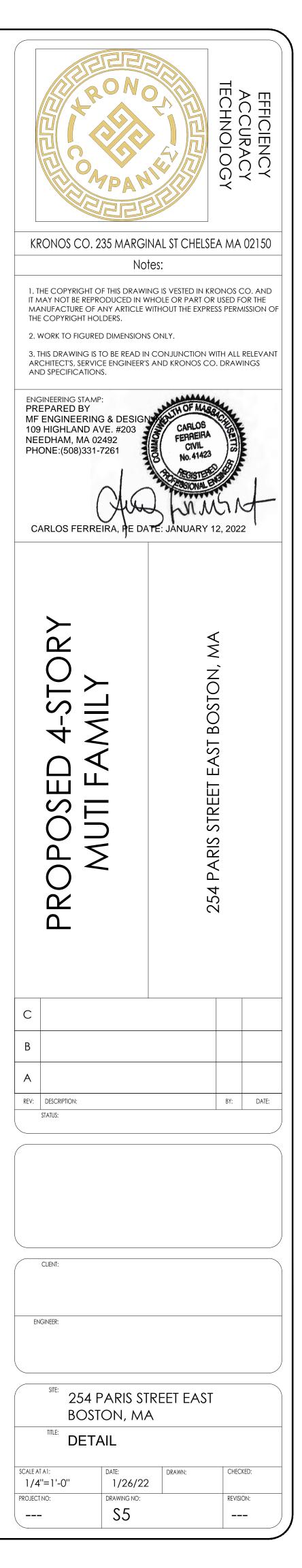




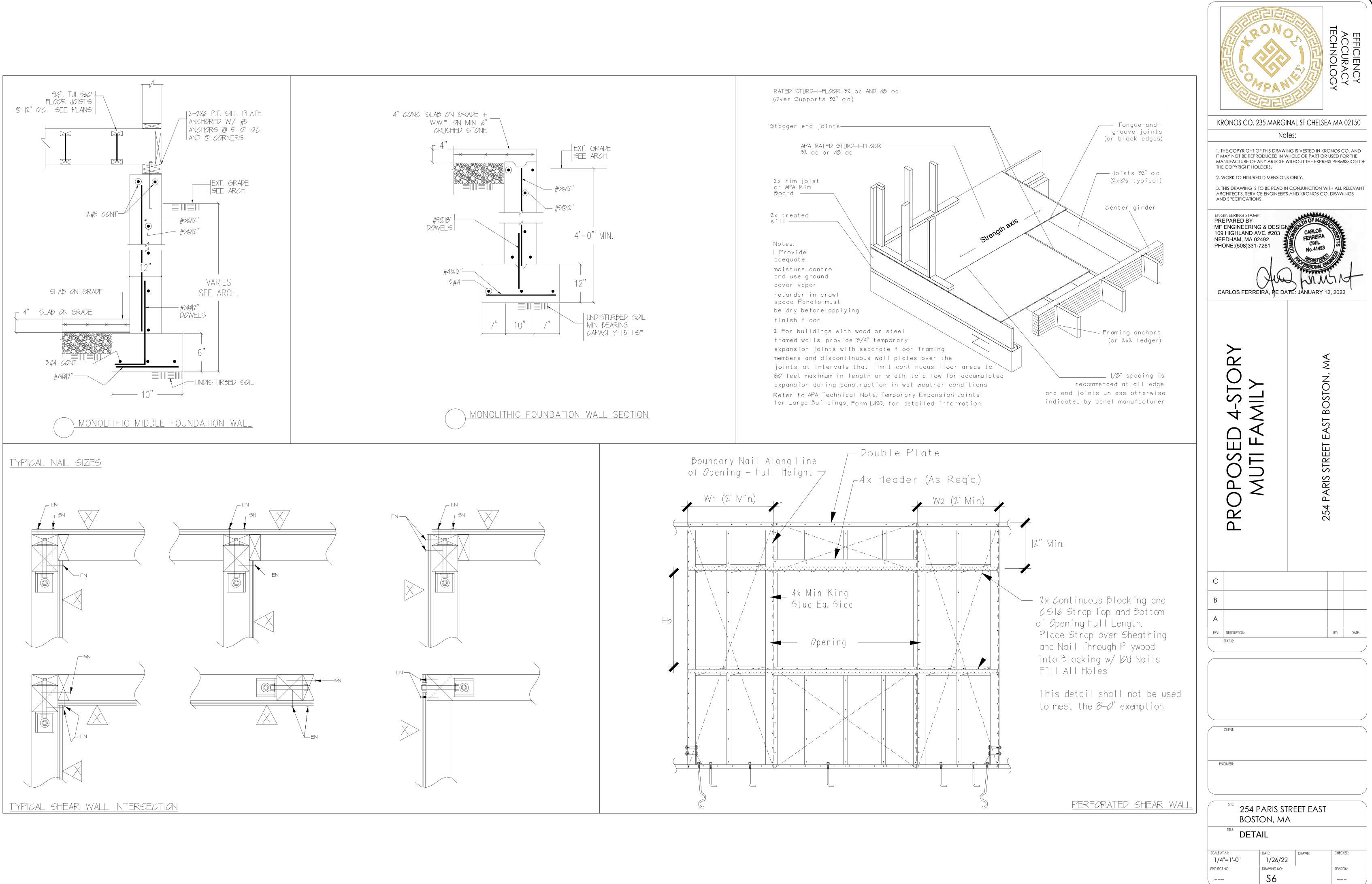


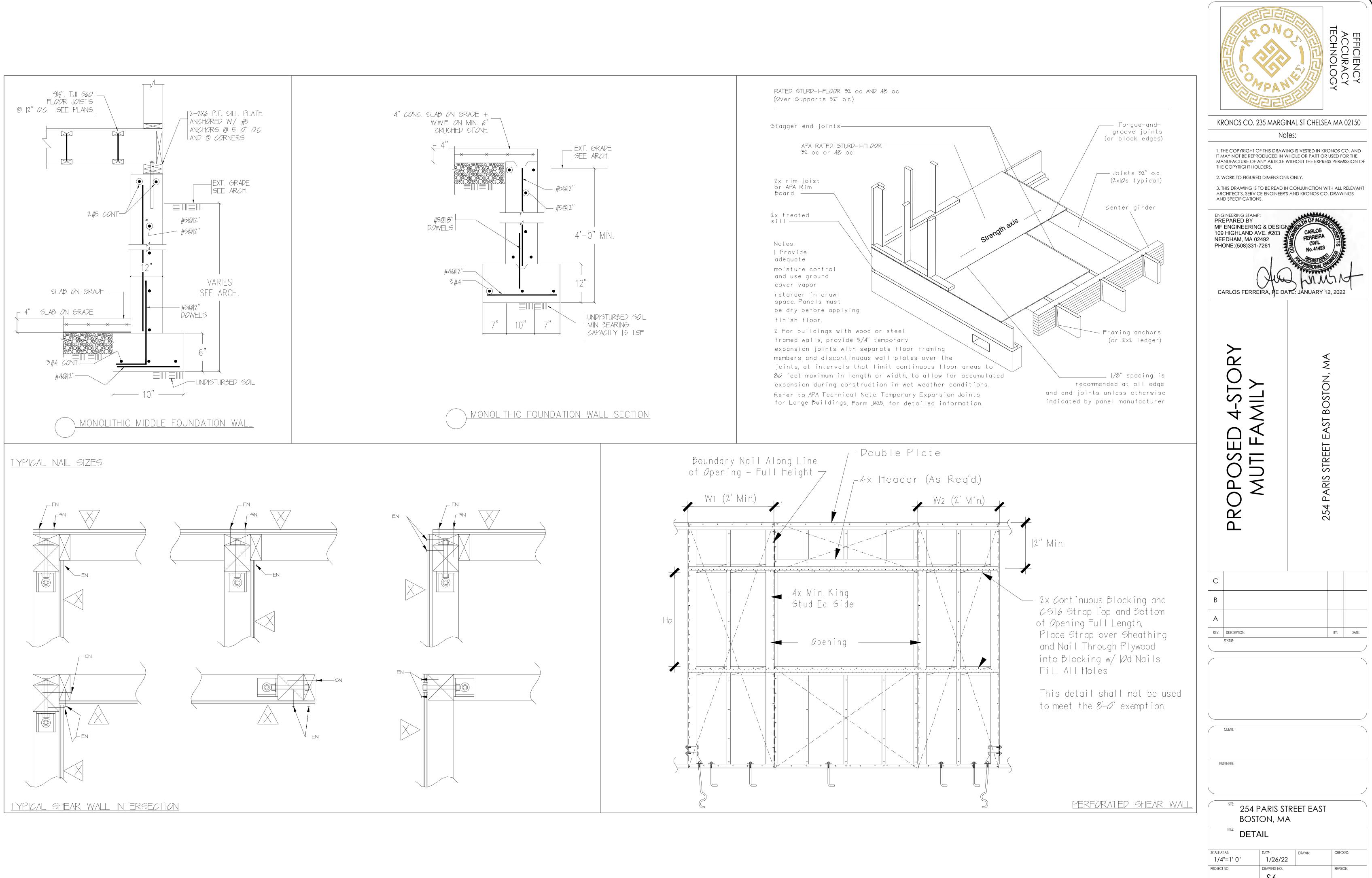


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_	3 1'-6"	4 2'-0"	3'-0"	<b>6</b> /2 5'-0"	1	8%	11	13	2 1'-0"	3 1'-6"	4 2'-6"	3'-6"	<b>6</b> /2 4'-6"	1	8%	11	13
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-	<u>1'-0"</u> 1'-0"	1'-0"	1'-6"	2'-6"	2'-6" 4'-0"	4'-0"	7'-0"		1'-0"	1'-0"	2'-0"	3'-0"	4'-0"	5'-0"	7'-0"	9'-0"	
-	1'-0" 1'-0"	1'-6" 2'-0"	2'-6" 3'-0"	3'-6" 4'-6"	4'-0" 5'-0"	5'-6" 6'-6"	8'-0" 9'-0"		1'-0" 1'-6"	1'-6" 3'-0"	2'-6" 4'-0"	4'-0" 5'-0"	6'-0" 7'-0"	6'-6" 7'-6"	8'-0" 9'-0"	9'-6" 10'-0"	
	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-0"	5'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-0"	3'-0"	5'-6"	7'-6"	10'-0'
	1'-0"	1'-0"	1'-0"	1'-6"	1'-6"	3'-0"	4'-0"	7'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-6"	4'-0"	7'-0"	9'-0"	11'-0'
	<u>1'-0"</u> 1'-0"	1'-0" 1'-0"	1'-0" 1'-0"	2'-6" 2'-6"	2'-6" 3'-0"	4'-6" 5'-0"	6'-6" 7'-6"	9'-0" 10'-0"	1'-0" 1'-0"	1'-0" 2'-0"	1'-6" 3'-0"	3'-0" 4'-6"	5'-0" 6'-6"	5'-6" 7'-0"	9'-0" 10'-0"	10'-0" 11'-0"	11'-6' 12'-0'
										-							
<b>1</b> "	<b>6</b> "	7"	0"	10"	12"	1/3/."	163/."		4"	6"	7"	0"	10"	42"			
-	<b>6"</b> 1'-0"	<b>7"</b>	<b>8"</b> 2'-0"	<b>10"</b> 4'-0"	<b>12"</b>	<b>14³⁄4"</b> 9'-6"	16¾"		<b>4"</b> 1'-0"	<b>6"</b> 3'-0"	<b>7"</b> 4'-6"	<b>8"</b>	<b>10"</b>	<b>12"</b>	13'-6"		
-0" -0"	1'-0" 1'-0"	1'-0" 1'-0"	2'-0" 2'-0"	4'-0" 4'-6"	5'-6" 7'-0"	9'-6" 10'-6"			1'-0" 2'-0"	3'-0" 5'-0"	4'-6" 6'-6"	6'-0" 8'-0"	10'-0" 11'-0"	11'-0" 12'-0"	14'-0"		
'-0" '-0" '-0"	1'-0" 1'-0" 1'-0" 1'-0"	1'-0" 1'-0" 1'-0" 1'-0"	2'-0" 2'-0" 1'-0" 1'-0"	4'-0" 4'-6" 2'-0" 2'-0"	5'-6" 7'-0" 4'-0" 4'-6"	9'-6" 10'-6" 7'-0" 8'-6"	10'-0" 11'-0"		1'-0" 2'-0" 1'-0" 1'-0"	3'-0" 5'-0" 1'-6" 3'-6"	4'-6"	6'-0"	10'-0"	11'-0"	14'-0" 13'-6"		
-0" -0" -0" ter	1'-0" 1'-0" 1'-0" 1'-0" <b>Me</b> froi	1'-0" 1'-0" 1'-0" 1'-0" <b>edia</b> m ede RC	2'-0" 2'-0" 1'-0" 1'-0" <b>te o</b> ge of	4'-0" 4'-6" 2'-0" 2'-0" or C f hole D HOI	5'-6" 7'-0" 4'-0" 4'-6" <b>ant</b> i e to i LE SI	9'-6" 10'-6" 7'-0" 8'-6" Iev nsido ZE	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" 1'-0" <b>DORT</b> neare	3'-0" 5'-0" 1'-6" 3'-6" est in	4'-6" 6'-6" 3'-0" 5'-0"	6'-0" 8'-0" 4'-6" 7'-0"	10'-0" 11'-0" 8'-0" 10'-6" te or	11'-0" 12'-0" 11'-6" 13'-0' . can GULA	14'-0" 13'-6" 14'-6" tileve	15'-6" er su DLE \$	SIZE
0" 0" 0" 0" <b>ter</b> nce	1'-0" 1'-0" 1'-0" 1'-0" <b>me</b> froi	1'-0" 1'-0" 1'-0" 1'-0" <b>edia</b> m ede RC 4"	2'-0" 2'-0" 1'-0" te o ge of DUNE 5"	4'-0" 4'-6" 2'-0" 2'-0" or C f hole HOl 6½"	5'-6" 7'-0" 4'-0" 4'-6" <b>ant</b> i e to i	9'-6" 10'-6" 7'-0" 8'-6" <b>Iev</b> nside	10'-0" 11'-0" er S		1'-0" 2'-0" 1'-0" 1'-0" <b>DORT</b> SQL 2"	3'-0" 5'-0" 1'-6" 3'-6" est in JARE 3"	4'-6" 6'-6" 3'-0" 5'-0" term OR 4"	6'-0" 8'-0" 4'-6" 7'-0" nedia REC 5"	10'-0" 11'-0" 8'-0" 10'-6" te or TANC 6½"	11'-0" 12'-0" 11'-6" 13'-0'	14'-0" 13'-6" 14'-6"	15'-6" er su	
-0" -0" -0" ter ter ce	1'-0" 1'-0" 1'-0" <b>1'-0"</b> <b>me</b> froi 3" 2'-6" 2'-6"	1'-0" 1'-0" 1'-0" 1'-0" <b>edia</b> m edg RC <b>4</b> " 3'-6" 3'-6"	2'-0" 2'-0" 1'-0" 1'-0" <b>te o</b> ge of DUNE 5" 4'-6" 5'-0"	4'-0" 4'-6" 2'-0" 2'-0" <b>or C</b> hole HOI 6 ¹ / ₂ " 7'-6" 8'-0"	5'-6" 7'-0" 4'-0" 4'-6" <b>ant</b> i e to i LE SI	9'-6" 10'-6" 7'-0" 8'-6" Iev nsido ZE	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" 1'-0" <b>DORT</b> neare	3'-0" 5'-0" 1'-6" 3'-6" est in	4'-6" 6'-6" 3'-0" 5'-0"	6'-0" 8'-0" 4'-6" 7'-0"	10'-0" 11'-0" 8'-0" 10'-6" te or	11'-0" 12'-0" 11'-6" 13'-0' . can GULA	14'-0" 13'-6" 14'-6" tileve	15'-6" er su DLE \$	SIZE
-0" -0" -0" -0" ter ice	1'-0" 1'-0" 1'-0" 1'-0" <b>me</b> froi 3" 2'-6" 2'-6" 3'-0"	1'-0" 1'-0" 1'-0" <b>edia</b> m edg RC 4" 3'-6" 3'-6" 4'-0"	2'-0" 2'-0" 1'-0" <b>1'-0</b> " <b>te o</b> ge of <b>5</b> " 4'-6" 5'-0" 5'-6"	4'-0" 4'-6" 2'-0" 2'-0" <b>or C</b> hole <b>b</b> HOI <b>6</b> ½" 7'-6" 8'-0" 8'-6"	5'-6" 7'-0" 4'-0" 4'-6" <b>ant</b> i e to i LE SI	9'-6" 10'-6" 7'-0" 8'-6" Iev nsido ZE	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" 1'-0" <b>DORT</b> neard SQL 2" 1'-6" 2'-0" 2'-0"	3'-0" 5'-0" 1'-6" 3'-6" <b>2st in</b> <b>JARE</b> 3" 2'-6" 3'-0" 3'-6"	4'-6" 6'-6" 3'-0" 5'-0" <b>term</b> <b>or</b> <b>a</b> <b>a</b> <b>a</b> <b>a</b> <b>a</b> <b>a</b> <b>b</b> <b>b</b> <b>b</b> <b>b</b> <b>b</b> <b>b</b> <b>b</b> <b>b</b> <b>c</b> <b>b</b> <b>c</b> <b>b</b> <b>c</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	6'-0" 8'-0" 4'-6" 7'-0" <b>nedia</b> <b>REC</b> 5" 5'-6" 6'-6" 6'-6"	10'-0" 11'-0" 8'-0" 10'-6" <b>te or</b> <b>TANC</b> <b>6'</b> -6" 7'-6" 7'-6"	11'-0" 12'-0" 11'-6" 13'-0' . can GULA	14'-0" 13'-6" 14'-6" tileve	15'-6" er su DLE \$	SIZE
2" -0" -0" -0" ter ter 2" -0" -0" -0" -0"	1'-0" 1'-0" 1'-0" <b>1'-0"</b> <b>me</b> froi 3" 2'-6" 2'-6"	1'-0" 1'-0" 1'-0" 1'-0" <b>edia</b> m edg RC <b>4</b> " 3'-6" 3'-6"	2'-0" 2'-0" 1'-0" 1'-0" <b>te o</b> ge of DUNE 5" 4'-6" 5'-0"	4'-0" 4'-6" 2'-0" 2'-0" <b>or C</b> hole HOI 6 ¹ / ₂ " 7'-6" 8'-0"	5'-6" 7'-0" 4'-0" 4'-6" <b>ant</b> i e to i LE SI	9'-6" 10'-6" 7'-0" 8'-6" Iev nsido ZE	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" 1'-0" <b>DORT</b> SQL 2" 1'-6" 2'-0"	3'-0" 5'-0" 1'-6" 3'-6" <b>2'-6</b> 3'-0"	4'-6" 6'-6" 3'-0" 5'-0" <b>term</b> <b>6 OR</b> 4" 3'-6" 4'-0"	6'-0" 8'-0" 4'-6" 7'-0" nedia REC 5" 5'-6" 6'-6"	10'-0" 11'-0" 8'-0" 10'-6" <b>te or</b> <b>TANC</b> 6'/2" 6'-6" 7'-6"	11'-0" 12'-0" 11'-6" 13'-0' . can GULA	14'-0" 13'-6" 14'-6" tileve	15'-6" er su DLE \$	SIZE
-0" -0" -0" -0" ter ter ter -0" -0" -0" -6" -0" -6" -0"	1'-0" 1'-0" 1'-0" 1'-0" <b>me</b> froi <b>3"</b> 2'-6" 2'-6" 3'-0" 4'-0" 5'-0" 1'-0"	1'-0" 1'-0" 1'-0" 1'-0" <b>edia</b> <b>m edg</b> <b>RC</b> <b>4"</b> 3'-6" 3'-6" 4'-0" 5'-6" 6'-0" 1'-6"	2'-0" 2'-0" 1'-0" <b>te o</b> ge of <b>5</b> " 4'-6" 5'-0" 5'-6" 6'-6" 7'-6" 2'-6"	4'-0" 4'-6" 2'-0" 2'-0" <b>or C</b> <b>f hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hole</b> <b>hol</b>	5'-6" 7'-0" 4'-0" 4'-6" <b>anti</b> <b>ato</b> i LE SI 7" 4'-6"	9'-6" 10'-6" 7'-0" 8'-6" <b>IEV</b> nside ZE 87's"	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" 1'-0" <b>DOPT</b> <b>DOPT</b> <b>SQU</b> 2" 1'-6" 2'-0" 2'-0" 3'-0" 4'-0" 1'-0"	3'-0" 5'-0" 1'-6" 3'-6" <b>3'-6</b> " <b>JARE</b> 3" 2'-6" 3'-0" 3'-6" 4'-6" 5'-6" 1'-6"	4'-6" 6'-6" 3'-0" 5'-0" <b>term</b> <b>0R</b> 4" 3'-6" 4'-0" 4'-6" 5'-6" 6'-6" 2'-6"	6'-0" 8'-0" 4'-6" 7'-0" <b>nedia</b> <b>REC</b> 5" 5'-6" 6'-6" 6'-6" 7'-6" 8'-0" 4'-0"	10'-0" 11'-0" 8'-0" 10'-6" <b>te or</b> <b>TANC</b> <b>6'</b> /2" <b>6'</b> -6" 7'-6" 8'-0" 9'-0" 7'-0"	11'-0" 12'-0" 11'-6" 13'-0' Can GULA 7" 7"	14'-0" 13'-6" 14'-6" tileve & HC 87's" 9'-6"	15'-6" er su DLE \$	SIZE
-0" -0" -0" -0" -0" <b>ter</b> <b>ter</b> <b>ter</b> -0" -0" -0" -6" -0" -0" -0" -0"	1'-0" 1'-0" 1'-0" 1'-0" <b>me</b> froi 3" 2'-6" 2'-6" 2'-6" 2'-6" 3'-0" 4'-0" 5'-0" 1'-0"	1'-0" 1'-0" 1'-0" 1'-0" <b>edia</b> m edg RC 4" 3'-6" 3'-6" 4'-0" 5'-6" 6'-0" 1'-6" 2'-0"	2'-0" 2'-0" 1'-0" 1'-0" <b>te o</b> ge of DUNC 5" 4'-6" 5'-6" 6'-6" 7'-6" 2'-6" 3'-0"	4'-0" 4'-6" 2'-0" 2'-0" <b>or C</b> hole <b>b</b> HOI <b>6</b> ¹ / ₂ " 7'-6" 8'-6" 9'-0" 10'-0" 4'-0" 4'-6"	5'-6" 7'-0" 4'-0" <b>ant</b> i <b>a</b> to i <b>E</b> SI 7" 4'-6" 5'-0"	9'-6" 10'-6" 7'-0" 8'-6" <b>IEV</b> nside ZE 87'8" 8'-6" 9'-0"	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" <b>DORT</b> SQL 2" 1'-6" 2'-0" 2'-0" 3'-0" 4'-0" 1'-0"	3'-0" 5'-0" 1'-6" 3'-6" <b>&gt;st in</b> <b>JARE</b> 3" 2'-6" 3'-0" 3'-6" 4'-6" 5'-6" 1'-6" 2'-0"	4'-6" 6'-6" 3'-0" 5'-0" <b>term</b> <b>0R</b> 4'-0" 4'-6" 5'-6" 6'-6" 2'-6" 3'-0"	6'-0" 8'-0" 4'-6" 7'-0" <b>REC</b> 5'-6" 6'-6" 6'-6" 7'-6" 8'-0" 4'-0" 4'-6"	10'-0" 11'-0" 8'-0" 10'-6" <b>te or</b> <b>TANC</b> <b>6'</b> <u>2</u> " 6'-6" 7'-6" 7'-6" 8'-0" 9'-0" 8'-0"	11'-0" 12'-0" 11'-6" 13'-0' Can GULA 7" 7" 7"-0" 8'-0"	14'-0" 13'-6" 14'-6" <b>tileve</b> <b>876</b> <b>876</b>	15'-6" er su DLE \$	SIZE
-0" -0" -0" -0" -0" <b>ter</b> ter ter -0" -0" -0" -0" -0" -0" -0" -0" -0" -0"	1'-0" 1'-0" 1'-0" 1'-0" 1'-0" <b>me</b> frou <b>3</b> " 2'-6" 3'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0"	1'-0" 1'-0" 1'-0" 2 2 3'-6" 3'-6" 3'-6" 3'-6" 3'-6" 3'-6" 3'-6" 1'-6" 2'-0" 2'-6" 4'-0"	2'-0" 2'-0" 1'-0" <b>te o</b> ge of <b>DUNE</b> 5'-6" 4'-6" 5'-6" 6'-6" 7'-6" 2'-6" 3'-0" 3'-6"	4'-0" 4'-6" 2'-0" 2'-0" <b>or C</b> hole <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>b</b>	5'-6" 7'-0" 4'-0" 4'-6" <b>anti</b> <b>to i</b> <b>LE SI</b> 7" 4'-6" 5'-0" 5'-6" 7'-6"	9'-6" 10'-6" 7'-0" 8'-6" <b>IEV</b> nside ZE 87's" 8'-6" 9'-0" 10'-0" 11'-0"	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" 1'-0" <b>DOPT</b> <b>DOPT</b> <b>SQU</b> 2" 1'-6" 2'-0" 2'-0" 3'-0" 4'-0" 1'-0" 1'-0" 1'-0" 2'-0"	3'-0" 5'-0" 1'-6" 3'-6" <b>3'-6"</b> <b>JARE</b> 3" 2'-6" 3'-0" 3'-6" 3'-6" 4'-6" 5'-6" 1'-6" 2'-0" 2'-6" 3'-6"	4'-6" 6'-6" 3'-0" 5'-0" <b>term</b> <b>0R</b> 4" 3'-6" 4'-0" 4'-6" 5'-6" 2'-6" 3'-0" 3'-6" 5'-0"	6'-0" 8'-0" 4'-6" 7'-0" <b>nedia</b> <b>REC</b> 5'-6" 6'-6" 6'-6" 6'-6" 6'-6" 6'-6" 7'-6" 8'-0" 4'-0" 4'-0" 7'-0"	10'-0" 11'-0" 8'-0" 10'-6" <b>te or</b> <b>TANC</b> <b>6'</b> -6" 7'-6" 7'-6" 8'-0" 8'-0" 8'-0" 8'-0" 8'-0" 8'-0"	11'-0" 12'-0" 11'-6" 13'-0' Can SULA 7" SULA 7" 	14'-0" 13'-6" 14'-6" tileve 87%" 9'-6" 10'-0" 10'-0" 10'-6" 11'-0"	15'-6" er su DLE \$	SIZE
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9'-0"	14'-0" 13'-6" 14'-6" tileve 87%" 9'-6" 10'-0" 10'-6" 11'-0" 12'-0"	15'-6"	SIZE
-0" -0" -0" -0" <b>ter</b> <b>ter</b> -0" -0" -0" -0" -0" -0" -0" -0" -0" -0"	1'-0" 1'-0" 1'-0" 1'-0" 1'-0" <b>me</b> frou <b>3</b> " 2'-6" 3'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0"	1'-0" 1'-0" 1'-0" 2 2 3'-6" 3'-6" 3'-6" 3'-6" 3'-6" 3'-6" 3'-6" 1'-6" 2'-0" 2'-6" 4'-0"	2'-0" 2'-0" 1'-0" <b>te o</b> ge of <b>DUNE</b> 5'-6" 4'-6" 5'-6" 6'-6" 7'-6" 2'-6" 3'-0" 3'-6"	4'-0" 4'-6" 2'-0" 2'-0" <b>or C</b> hole <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>bhole</b> <b>b</b>	5'-6" 7'-0" 4'-0" 4'-6" <b>anti</b> <b>to i</b> <b>LE SI</b> 7" 4'-6" 5'-0" 5'-6" 7'-6"	9'-6" 10'-6" 7'-0" 8'-6" <b>IEV</b> nside ZE 87's" 8'-6" 9'-0" 10'-0" 11'-0"	10'-0" 11'-0" er S e fac	e of	1'-0" 2'-0" 1'-0" 1'-0" <b>DOPT</b> <b>DOPT</b> <b>SQU</b> 2" 1'-6" 2'-0" 2'-0" 3'-0" 4'-0" 1'-0" 1'-0" 1'-0" 2'-0"	3'-0" 5'-0" 1'-6" 3'-6" <b>3'-6"</b> <b>JARE</b> 3" 2'-6" 3'-0" 3'-6" 4'-6" 5'-6" 1'-6" 2'-0" 2'-6" 3'-6"	4'-6" 6'-6" 3'-0" 5'-0" <b>term</b> <b>0R</b> 4" 3'-6" 4'-0" 4'-6" 5'-6" 2'-6" 3'-0" 3'-6" 5'-0"	6'-0" 8'-0" 4'-6" 7'-0" <b>nedia</b> <b>REC</b> 5'-6" 6'-6" 6'-6" 6'-6" 6'-6" 6'-6" 6'-6" 7'-6" 8'-0" 4'-0" 4'-0" 7'-0"	10'-0" 11'-0" 8'-0" 10'-6" <b>te or</b> <b>TANC</b> <b>6'</b> -6" 7'-6" 7'-6" 8'-0" 8'-0" 8'-0" 8'-0" 8'-0" 8'-0"	11'-0" 12'-0" 11'-6" 13'-0' Can SULA 7" SULA 7" 	14'-0" 13'-6" 14'-6" tileve &R HC 87%" 9'-6" 10'-6" 10'-6" 10'-6" 11'-0" 12'-0" 9'-0"	15'-6"	SIZE
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5'-0" <b>tterm</b> <b>3'-6"</b> 4'-0" 4'-6" 4'-0" 4'-6" 5'-6" 6'-6" 2'-6" 6'-6" 2'-6" 6'-6" 2'-6" 6'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0" 1'-0"	6-0" 8-0" 4-6" 7-0" <b>edia</b> <b>REC</b> 5" 5'-6" 6'-6" 6'-6" 6'-6" 6'-6" 4'-0" 4'-0" 4'-0" 4'-0" 4'-0" 2'-6" 3'-6" 7'-0" 2'-6" 4'-0" 2'-6" 4'-0" 2'-6" 4'-0" 2'-6" 8" 9'-0"	10'-0" 11'-0" 8'-0" 10'-6" <b>te on</b> <b>te on</b> <b>te on</b> <b>te on</b> <b>f</b> <b>f</b> <b>f</b> <b>f</b> <b>f</b> <b>f</b> <b>f</b> <b>f</b>	111-0" 12-0" 12-0" 111-6" 133-0' Can GULA 7" 7" 7" 0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 8-0" 9-0" 9-0" 8-6" 110-0" 8-6" 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TYPICAL SHEAR WALL INTERSECTION





	ELECTRICAL SYMBOLS AND LEGENDS
0	CEILING MOUNTED LIGHT FIXTURE
Q	WALL MOUNTED LIGHT FIXTURE
	2'X2' OR 2'X4' FLUORESCENT LIGHT FIXTURE
	2'X4" FLUORESCENT WALL/CEILING MOUNTED LIGHT FIXTURE
$\bigwedge^{\wedge}$	UNIVERSAL MOUNTING EXIT SIGN ( DOUBLE FACED), ARROWS AS INDICATED
4_4	EMERGENCY BATTERY UNIT WITH MOUNTING BRACKET AND VOLTMETER
SA	SINGLE POLE LIGHT SWITCH
SAB	TWO POLE LIGHT SWITCH
SABC	THREE POLE LIGHT SWITCH
S3w	THREE-WAY LIGHT SWITCH
S3wABC	THREE-WAY LIGHT SWITCH
S3w	THREE-WAY LIGHT SWITCH
S3wAB	THREE-WAY, TWO POLE LIGHT SWITCH
S3wABC	THREE-WAY, THREE POLE LIGHT SWITCH
Φ	DUPLEX RECEPTACLE, 120V, 18" AFF
${\textstyle \bigoplus}^{\sf GFI}$	DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPTER 8" ABOVE COUNTER TO CL
$\blacksquare$	DUPLEX RECEPTACLE ABOVE COUNTER, 8" ABOVE COUNTER TO CL
	208V/1P/30A DRYER OUTLET
$\bigtriangledown^{W}$	TELEPHONE JACK COMPLETE W/ JACK AND COVER, ('W' WALL MOUNTED @ 4'-0" A.F.F.)
V	TEL/DATA COMBINATION OUTLET, COMPLETE W/ JACK AND COVER, HEIGHT @18" TO C A.F.F.
$\mathcal{O}'$	EXHAUST FAN
3R ∠	FUSED DISCONNECT SWITCH, (3R RAIN-PROOF)
◄	HOMERUN TO PANEL WITH CONDUCTOR (HOT, NEUTRAL, GROUND)
J	JUNCTION BOX
	LIGHTING & POWER PANEL
LC	APARTMENT LOAD CENTER, RECESSED
	RACEWAY CONCEALED IN CEILING, PLENUM OR WALLS
	RACEWAY CONCEALED IN SLAB (FLOOR)

(CU) WIRE SCHEDULE							
AMPS CB	CU	CMIL	MAX LENGTH *)				
20	#12	6,530	70 FT				
30	#10	10,380	70 FT				
40	#8	16,510	90 FT				
50	#6	26,240	110 FT				
60	#6	26,240	95 FT				
70	#4	41,740	120 FT				
80	#3	52,620	125 FT				
100	#2	66,360	140 FT				
125	#1	83,690	145 FT				
150	#1/0	105,600	145 FT				
200	#3/0	167,800	165 FT				
225	#4/0	211,600	175 FT				
300	#300	300,000	200 FT				
350	#400	400,000	225 FT				
400	#500	500,000	250 FT				

DISTANCE = CMILX0.17/AMPERE

*) - FEEDERS ARE SIZED BASED ON %3 VD, 208/3 AND 80% LOADING. FOR 480 V MULTIPLY BY 5

CONTRACTOR SHALL FOLLOW THE FOLLOWING CRITERIA. INCREASE CIRCULAR MILL OF THE WIRE IN PROPORTION TO INCREASE ON LENGTH FROM THE MAXIMUM DISTANCES SHOWN ABOVE EXAMPLE, #12 WIRE 200 FT, USE (200/70)X6530=18,657 CMIL CABLE

-FOR DECREASED LOADING INCREASE CIRCULAR MILL IN PROPORTION TO DECREASE VALUE EXAMPLE #12 WIRE FOR 10AMP LOADING AT 200FT, USE

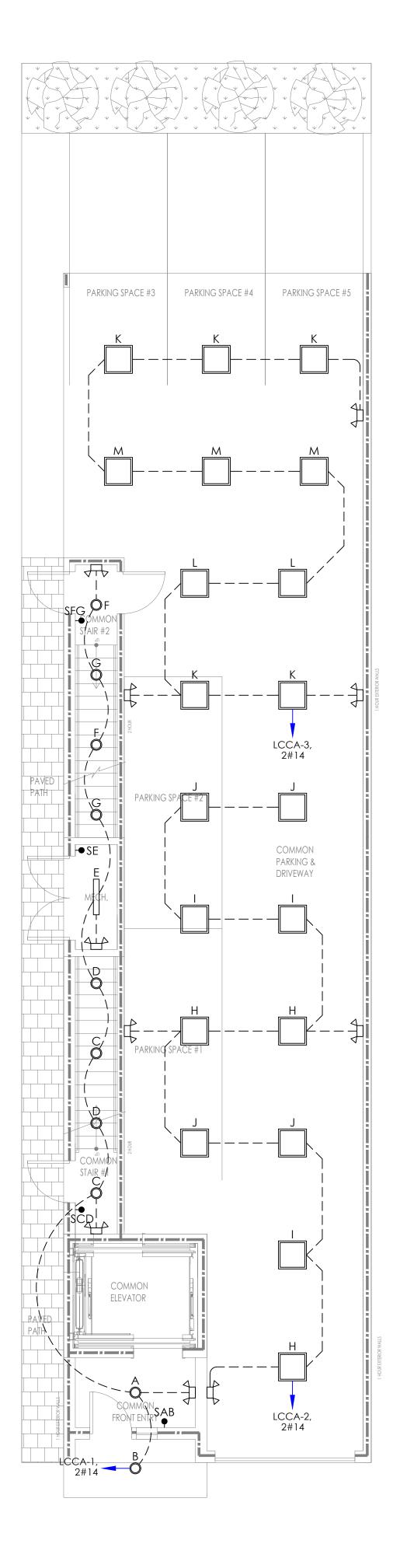
(200/70)X6530=11,660 CMIL CABLE

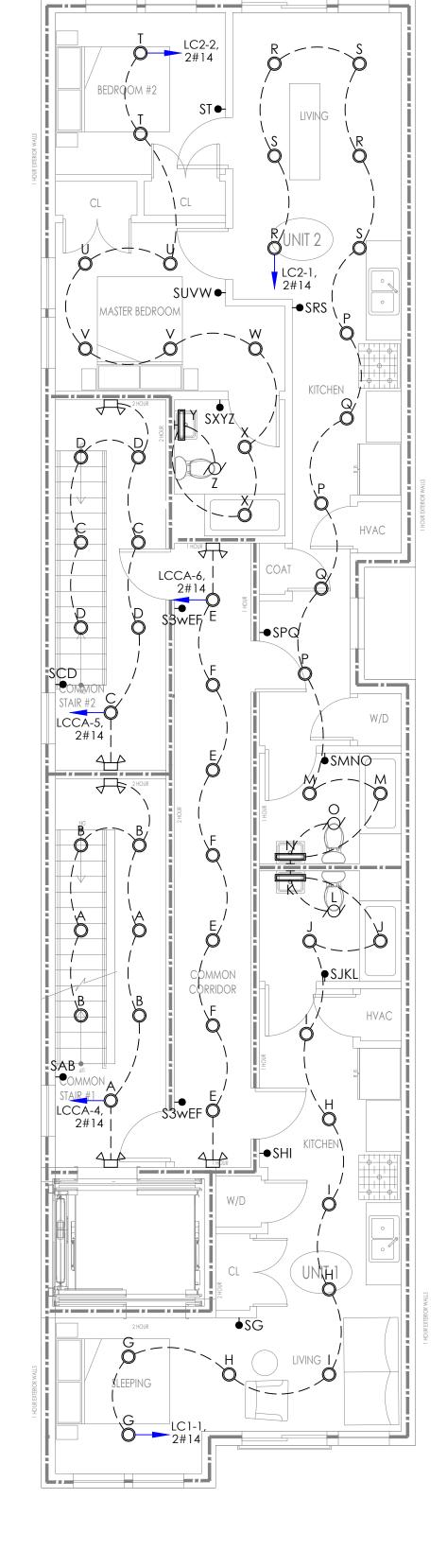
GENERAL POWER DISTRIBUTION NOTES	CONSTRUCTION NOTES	TELEPHONE SYSTEM
-BEFORE ORDERING ANY EQUIPMENT AND/OR START ANY CONSTRUCTION OR EXCAVATION ELECTRICAL CONTRACTOR AND/OR GENERAL CONTRACTOR	-LOCAL SMOKE DETECTORS SHALL BE WIRED FROM ARC-FAULT CIRCUITS, VERIFY WITH ELECTRICAL INSPECTOR.	A. FURNISH AND INSTALL A COMPLETE SYS SHOWN ON THE PLANS.
HALL CONTACT ELECTRIC/TELEPHONE/CATV COMPANIES FOR SERVICE POINT ND ROUTING, SERVICE AVAILABILITY.	-BACK TO BACK OUTLETS ON FIRE RATED WALLS SHALL BE INSTALLED TO MAINTAIN FIRE RATINGS, IF NECESSARY, USE FIRE RATED OUTLET BOXES.	B. TELEPHONE TERMINAL LOCATIONS AS S MADE BY THE TELEPHONE COMPANY. E
IS ENGINEER HAS MADE APPLICATION TO UTILITY COMPANY BUT YET NO ONFIRMATION HAS BEEN MADE BY THE UTILITY COMPANY. CONTRACTOR ALL NOT PROCEED WITHOUT SUCH CONFIRMATION.	-ALL FLOOR PENETRATIONS BY CABLES AND CONDUITS SHALL BE SEALED TO MAINTAIN FIRE RATINGS.	C. A NYLON FISH WIRE SHALL BE LEFT IN AI
EEDERS ARE SIZED BASED ON %3 VD. ONTRACTOR SHALL FOLLOW THE FOLLOWING CRITERIA.	-RECESSED LIGHT FIXTURES INSTALLED ON FIRE RATED CEILINGS SHALL HAVE FIRE RATED HOODS ON TOP TO MAINTAIN FIRE RATING.	D. LOCAL TELEPHONE COMPANY SHALL B
A, UP TO 100FT #6, INCREASE BY ONE SIZE FOR EVERY 30FT. DA, UP TO 100FT #3, INCREASE BY ONE SIZE FOR EVERY 30FT.	-ALL WIRING WITHIN UNITS SHALL BE ROMEX. WIRING OUTSIDE UNITS SHALL BE	E. EACH TELEPHONE OUTLET SHALL BE WIF
10A, UP TO 150FT #3/0, INCREASE BY ONE SIZE FOR EVERY 50FT. 10A, UP TO 200FT #500, INCREASE BY ONE SIZE FOR EVERY 50FT.	METAL CLAD.	WIRE TERMINATED IN TESTED AND CERTI CONSTRUCTION AND TEST REQUIREMEN
		800.50 PREVENTS LAYING TELEPHONE W
ENERAL POWER DISTRIBUTION NOTES	ACCESSIBLE UNIT WIRING NOTES	800.50 REQUIRES PRIMARY PROTECTOR
	SEE ARCHITECTURAL PLANS FOR NUMBER OF HC UNITS AND LOCATIONS IN EACH.	800.30 (2) REQUIRES FUSED TYPE PRIMA
R SWITCHGEAR SHORT CIRCUIT RATINGS, SEE NOTED UNDER PANEL EDULES.	-HOOD CONTROL SWITCHES (LIGHT/FAN) SHALL BE MOUNTED ON WALL AT COUNTER.	800.50 REQUIRED ALL METAL SHIELDS TO
IOR TO ORDERING ANY SWITCHGEAR, ELECTRICAL CONTRACTOR SHALL INFIRM CIRCUIT BREAKER SIZES WITH HVAC AND OTHER MECHANICAL JIPMENT SHOP DRAWINGS. DUE TO SUBMITTAL TIMING FROM VARIOUS	-PROVIDE WALL OVEN AND COOK TOP WIRING ON SAME CIRCUIT, 50A/2P.	800.50 REQUIRES INSULATED GROUNDI GROUND SYSTEM. WITH MINIMUM #6 B
INTRACTORS, ENGINEERS APPROVAL IS GIVEN FOR QUALITY ONLY.	-ALL ELECTRICAL OUTLETS AND CONTROL SWITCHES SHALL BE MINIMUM 18" AWAY FROM AN INTERIOR CORNER REGARDLESS OF	800.50 REQUIRES TYPE CMP FOR PLENU
ONTRACTOR SHALL COORDINATE WITH OTHER TRADES SO THAT NO OTHER ADE SHALL PASS THROUGH ELECTRIC ROOM OR ABOVE DEDICATES SPACES.	HOW IT IS SHOWN.	800.51 REQUIRES MINIMUM 2" BETWEEN 6FT FROM LIGHTNING WIRES.
ORM ARCHITECT/ENGINEER ABOUT ANY INFRINGEMENTS PRIOR SUCH TALLATIONS OCCUR.	-ALL ELECTRICAL OUTLETS HEIGHTS TO BE A MINIMUM OF 15" TO THE CENTERLINE OF THE LOWEST RECEPTACLE AND MAXIMUM OF 48" TO THE CENTERLINE OF THE HIGHEST RECEPTACLE.	ALSO KEEP DISTANCE FROM HEAT SOU KEEP MINIMUM 6" FROM 20A/2KW CIRC KEEP MINIMUM 12" FROM 30A/5KW CIR
ECTRIC ROOM DIMENSIONS ARE BASED ON CERTAIN MANUFACTURER QUIPMENT DIMENSIONS, CONTRACTOR SHALL CONFIRM ROOM DIMENSIONS IOR TO ORDERING EQUIPMENT.	-ALL ELECTRICAL OUTLETS ARE LOCATED OVER COUNTERTOPS, SHALL BE NO	KEEP MINIMUM 24" FROM ANY FEEDER. FOR SHIELDED CABLES THESE VALUES M
	HIGHER THAN 44" TO THE CENTERLINE OF THE HIGHEST RECEPTACLE.	CAT 6 INSTALLATION RECOMMENDATIO
	-ALL CIRCUIT BREAKER PANELS MUST BE CENTERED ON A 30" BY 48" CLEAR FLOOR SPACE AND IF A PARALLEL APPROACH IS USED, THE HIGHEST CONTROL CAN BE NO HIGHER THAN 54" A.F.F.	CAT 6 INSTALLATION REQUIRES MINIMU MINIMUM 1" BENDING RADIUS FOR FOU PROVIDE MINIMUM TWO LINES AT EACH
VITCHGEAR AND PANELBOARDS SHALL BE MANUFACTURED BY SQUARE D.	IF A FRONT APPROACH IS USED, THE HIGHEST CONTROL CAN BE NO HIGHER THAN 48" A.F.F.	WATCH FOR THAT A KINKED CABLE REE
MENS OR GENERAL ELECTRIC. NELBOARDS MAY BE SERIES RATED OR FULLY RATED FOR AVAILABLE SHORT	-PROVIDE STROBE FOR INTERCOM OR THE HEARING IMPAIRED.	-WIRE MAP TEST (TO IDENTIFY INSTALLAT -LENGTH TEST( TO VERIFY MAXIMUM OP
RCUIT RATINGS.		-ATTENUATION TEST (TO MEASURE MAXI -NEXT (TO MEASURE SIGNAL COUPLING -PROPAGATION TEST (TO MEASURE TIM
E SERIES RATINGS ARE APPLIED SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING ROPER SERIES RATED EQUIPMENT AS REQUIRED.		
VAILABLE SHORT CIRCUIT CURRENT FOR THE MAIN SERVICE IS 65KA. DOWNSTREAM PANELS SHALL BE SERIES RATED ACCORDINGLY. EE RISER DIAGRAM FOR CONNECTION DIAGRAM OF THE PANELS. NO LINE		
APEDANCES ARE TO BE CONSIDERED IN SERIES RATING APPLICATIONS.		CATV INTERNAL UNIT WIRING
For All residential load centers, 15a and 20a circuits serving the unit 1		

FOR ALL RESIDENTIAL LOAD CENTERS, 15A AND 20A CIRCUITS SERVING THE UNIT (EXCEPT BATHROOMS CIRCUITS) SHALL BE ARC FAULT INTERRUPTER TYPE AS REQUIRED PER NEC 210-12(B).

LIGHTING FIXTURE SCHEDULE									
IMAGE	Symbol			LAMP	BALLAST	REMARKS			
IMAGE	STMBOL	MANOFACTORER & CATALOG NO.	MANUFACTURER & CATALOG NO. MANUFACTURER TYPE WATTS				KEMAKK3		
		GENERATION LIGHTING 14929RD-15	sea gull	LED	18	LED DRIVER/120V	SURFACE MOUNTED		
		MODERN FORMS WS-34119-35-BN	MODERN FORMS	LED	24	LED DRIVER/120V	WALL MOUNTED		
		Modern forms fm-3718-Al	MODERN FORMS	LED	48	LED DRIVER/120V	SURFACE MOUNTED		
		GENERATION LIGHTING 591360S-15	sea gull	LED	27	LED	FLUSH MOUNTED		
EXIT		emergi-lite total edge series	ABB	LED	2.6	LED	CEILING MOUNTED		
E B		EMERGI-LITE PREMIER COMPACT SERIES	ABB	LED	20	LED	WALL MOUNTED		

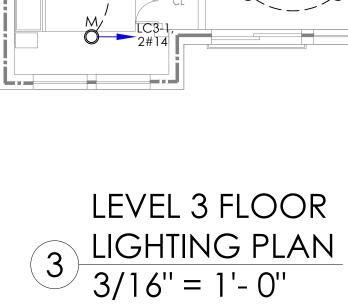
TELEPHONE SYSTEM           A. FURNISH AND INSTALL A COMPLETE SYSTEM OF CONDUITS AND BACKBOARDS FOR TELEPHONE INSTRUMENTS AS SHOWN ON THE FLANS.           B. TEEPHONE TERMINAL LOCATIONS AS SHOWN ON THE PLANS SHALL BE 30" X 48" X 3/4" PLYWOOD, GROUND CONNECTIONS SHALL BE MADE BY THE TELEPHONE COMPANY. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMARY ARRESTER WITH FUSE AND #6 CU GROUNDING WIRE AND GROUND BOLT CONNECTED TO SERVICE GROUND.           C. A NYLON F5H WIRE SHALL BE LISFT IN ALL CONDUITS TO FACILITATE PULLING-IN TELEPHONE WIRES, FURNISH AND INSTALL ONE NYLON PULL WIRE FOR PULLING IN TELEPHONE SERVICE IN ALL CONDUITS. SEE STE PLAN FOR SERVICE ENTRANCE.           D. LOCAL TELEPHONE COMPANY SHALL BE RESPONSIBLE FOR THE TELEPHONE WIRING FROM THEIR OUTDOOR TERMINATION CABINET TO A NETWORK INTERFACE DICATED IN TELEPHONE SERVICE IN ALL CONDUITS. SEE STE PLAN FOR SERVICE ENTRANCE.           D. LOCAL TELEPHONE COMPANY SHALL BE RESPONSIBLE FOR THE TELEPHONE WIRING FROM THEIR OUTDOOR TERMINATION CABINET TO A NETWORK INTERFACE OLCATED IN THE TELEPHONE SERVICE ON ALL CONDUITS.           E. EACH TELEPHONE OUTLET SHALL BE WIRED TO DATA INTERFACE TERMINATION BOARD WITH PLENUM RATED CAT 6, #20/8 TWISTED DATA WIRE TERMINATED IN TESTED AND CERTIFIC CAT 6 TERMINATION STUE AT BOTH ENDS AND CLEARLY RINGED AND TAGGED.           CONSTRUCTION AND TEST REQUIREMENTS (INCE REQUIREMENTS)           800:50 REQUIRES FINARY PROTECTOR FOR MOST UNDERGROUND AND ALL OVERHEAD SERVICES           800:50 REQUIRES FINARY PROTECTOR FOR MOST UNDERGROUND AND ALL OVERHEAD SERVICES           800:50 REQUIRES FINARY PROTECTOR FOR MOST UNDERGROUND AND ALL OVERHEAD SERVICES           800:50 REQUIRES FINARY PROTECTOR FOR MOST UNDERGROUND AND ALL OVERHEAD SE	NO 1. THE COPYRIGHT OF THIS DRAWIN MAY NOT BE REPRODUCED IN WHO MANUFACTURE OF ANY ARTICLE W THE COPYRIGHT HOLDERS. 2. WORK TO FIGURED DIMENSIONS 3. THIS DRAWING IS TO BE READ IN	ITHOUT THE EXPRESS PERMISSION OF ONLY. CONJUNCTION WITH ALL RELEVANT AND KRONOS CO. DRAWINGS AND
WIRE MAP TEST (TO DENTIFY INSTALLATION ERRORS)    ENCIFICATION TEST (TO MEASURE MAXIMUM SIGNAL LOSS AT 100MH2 LESS THAN 22)    NEXT (TO MEASURE SIGNAL COPURD BEWIENT THE PARKS AT 100MH2 LESS THAN 22)    NEXT (TO MEASURE SIGNAL COPURD BEWIENT THE PARKS AT 100MH2 LESS THAN 22)    NEXT (TO MEASURE TIME IT TAKES SIGNAL FROM ONE POINT TO ANOTHER)  COATAL CABLE COATAL CABLE COATAL CABLE COATAL CABLE COATAL CABLE COATAL CABLE WITHIN THE UNIT, INCLUDING THE DROP CABLES BACK TO THE COMMON DISTRIBUTION ROOM SHOULD MEET OR EXCEED THE FOLLOWING REQUIREMENTS: RG-6 QUAD SHIELD FOR DROP LENGTHS OF UP TO 150 FEET. (DROP LENGTHS SHOULD NOT EXCEED 250 FEET.) (DROP LENGTHS THAT HAS MORE THAN ONE OUTLET MUST HAVE AN INTERFACE ENCLOSURE THAT PLANT	MULTI-UNIT RESIDENCES	254 PARIS ST., EAST BOSTON, MA 02128
Image: construction of the stand of the	C B A REV: DESCRIPTION: STATUS: PERMIT SE CLIENT: ENGINEER: KRONOS CC 235 MARGINAL ST CHELSEA, MA 021 STE: 254 PARIS ST EAST BOSTO TILE: ELECTRICAL RISER DIAGE SCALE AT A1: NOT TO SCALE PROJECT NO: DRAWING NO:	DLLABORATIVE 50  N, MA 02128 LEGENDS, NOTES, RAM & DETAILS DRAWN: CHECKED:

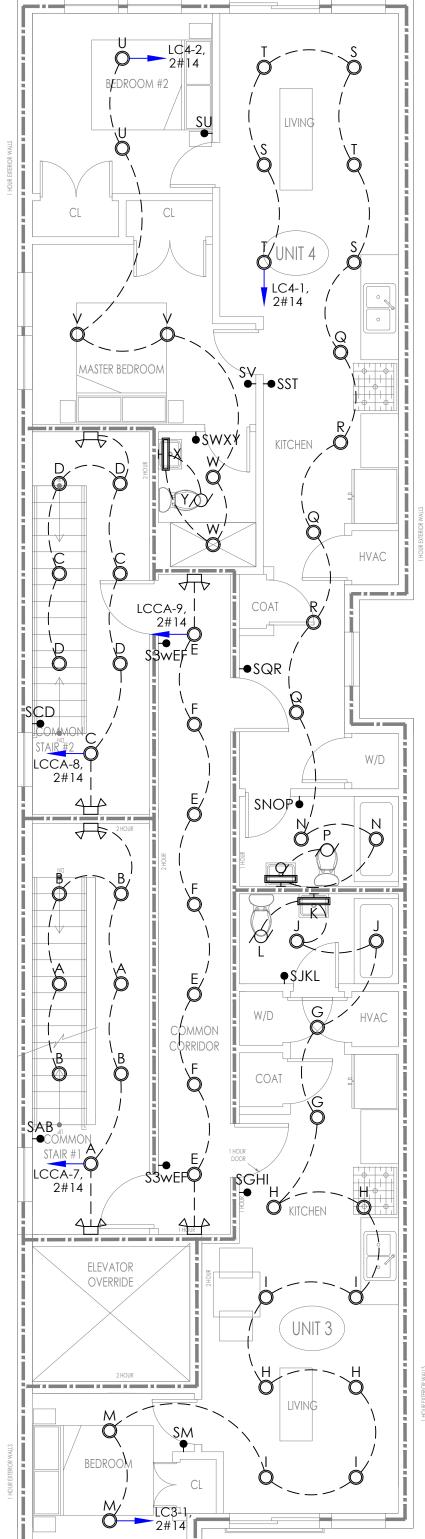


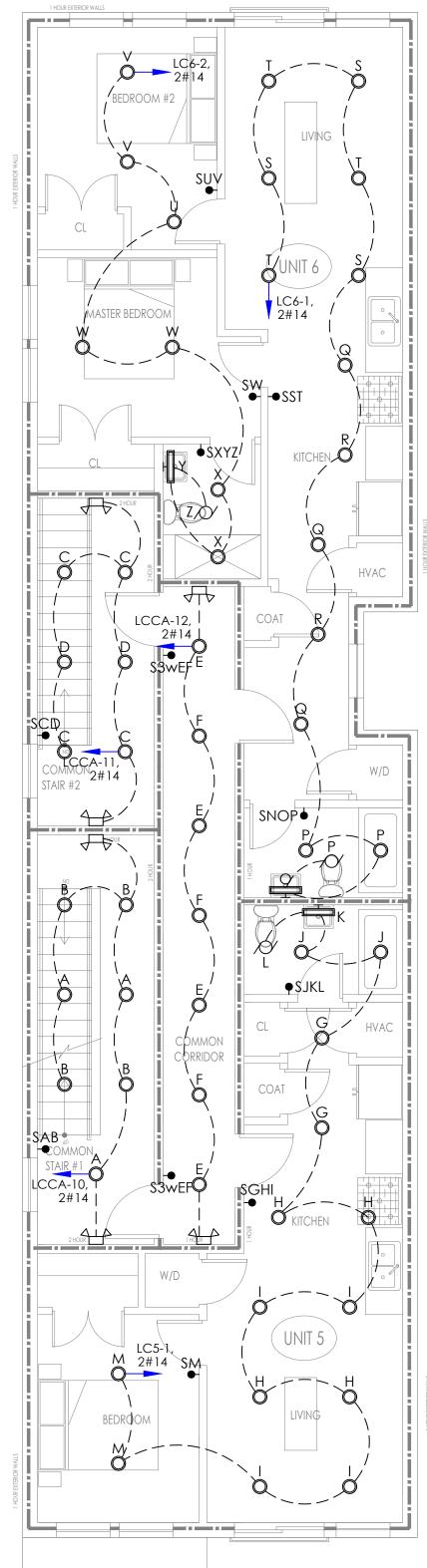


GROUND FLOOR 1 LIGHTING PLAN 3/16'' = 1'-0''

LEVEL 2 FLOOR  $2 \frac{\text{LIGHTING PLAN}}{3/16'' = 1' - 0''}$ 



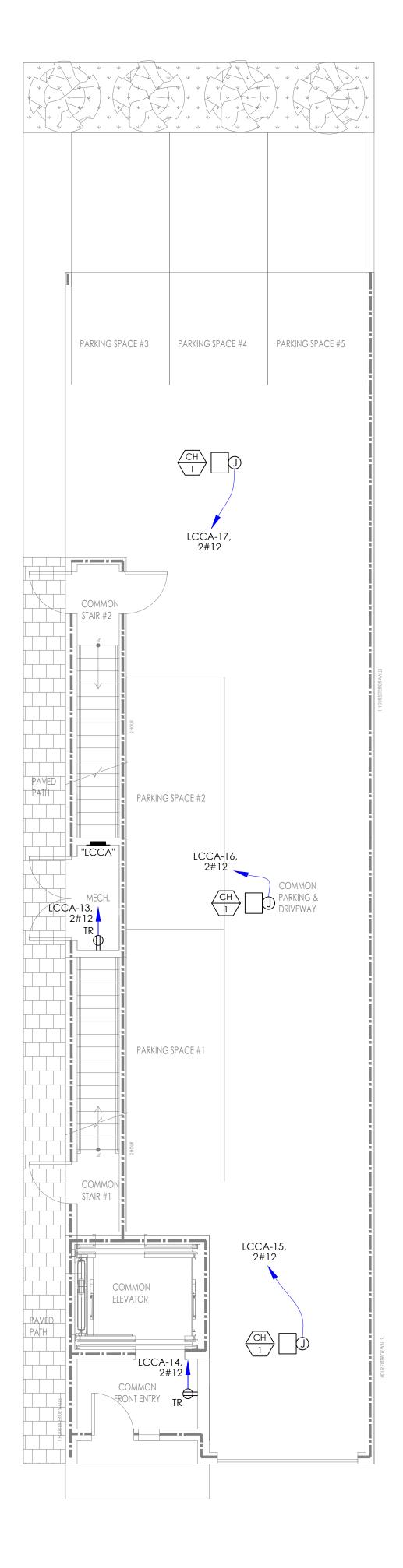




LEVEL 4 FLOOR

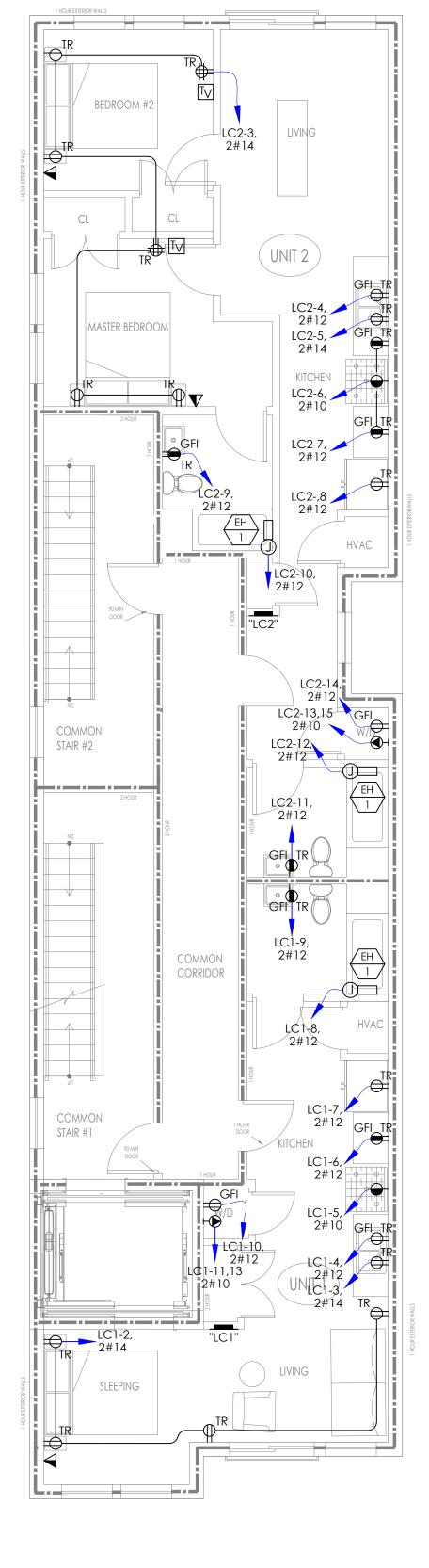
 $4 \frac{\text{FIRE ALARM PLAN}}{3/16'' = 1' - 0''}$ 

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ELATROOF AREA	WULTI-UNIT RESIDENCES	254 PARIS ST., EAST BOSTON, MA 02128		
	C B A REV: DESCRIPTION: STATUS: PERMIT SE CLIENT:			
ROOF 5 LIGHTING PLAN 3/16'' = 1'-0''	235 MARGINAL ST. CHELSEA, MA 0215 SITE: 254 PARIS ST EAST BOSTO TITLE: GROUND, LE LIGHTING PL SCALE AT A1: 24/20/20 PROJECT NO: DRAWING NO:	., N, MA 02128 EVEL 1, 2, 3, 4 AN		

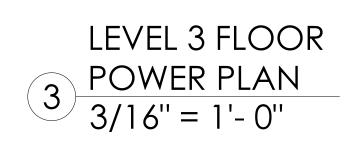


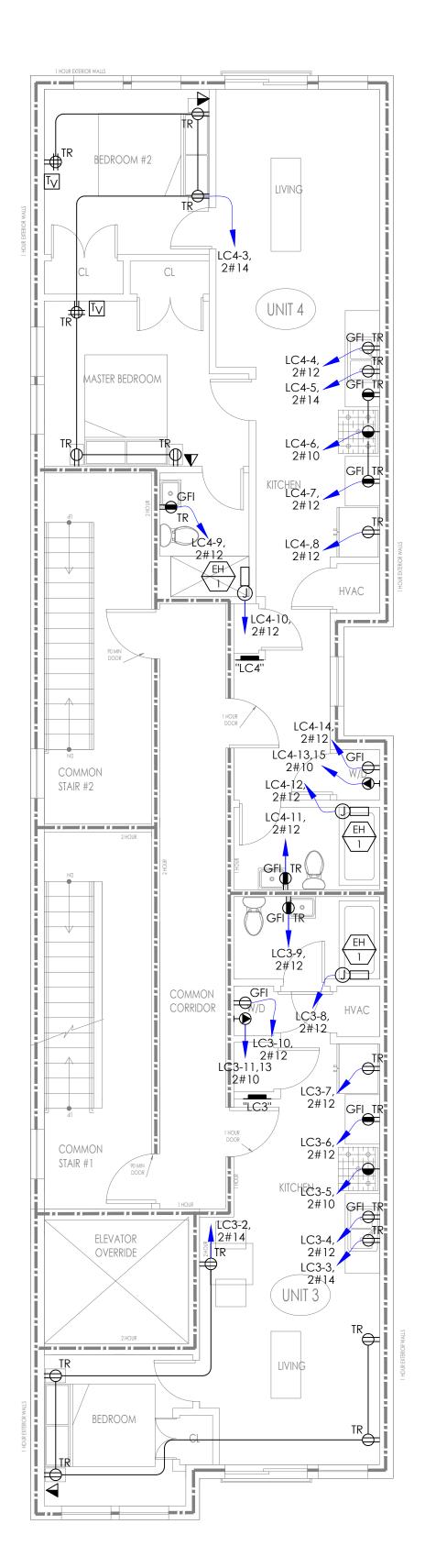
GROUND FLOOR

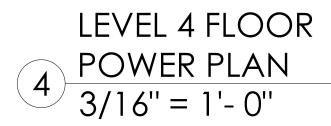
1 POWER PLAN 3/16" = 1'- 0"

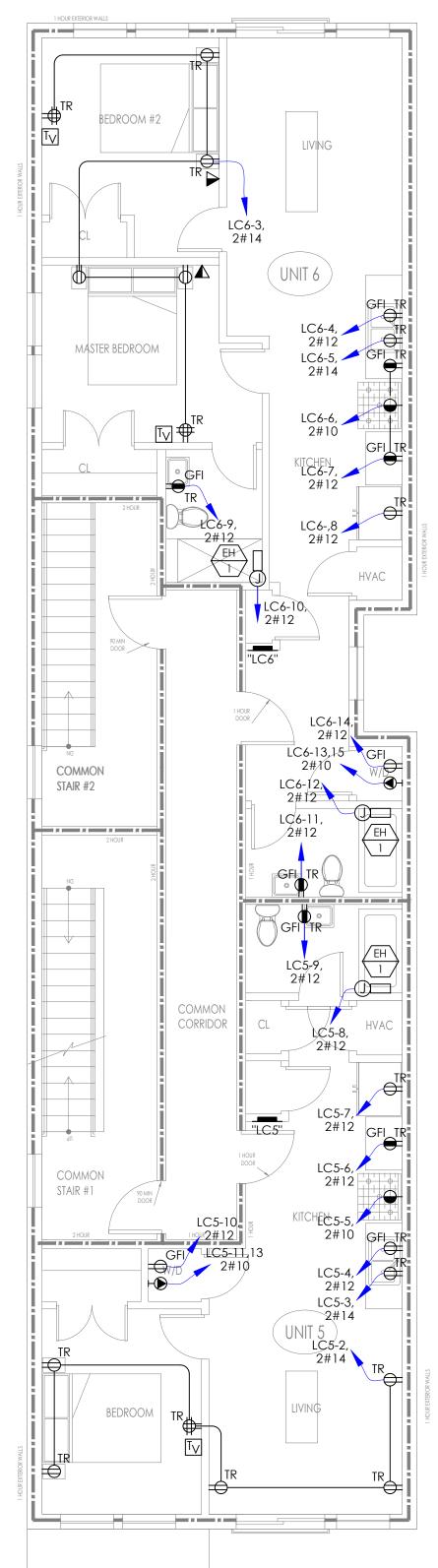


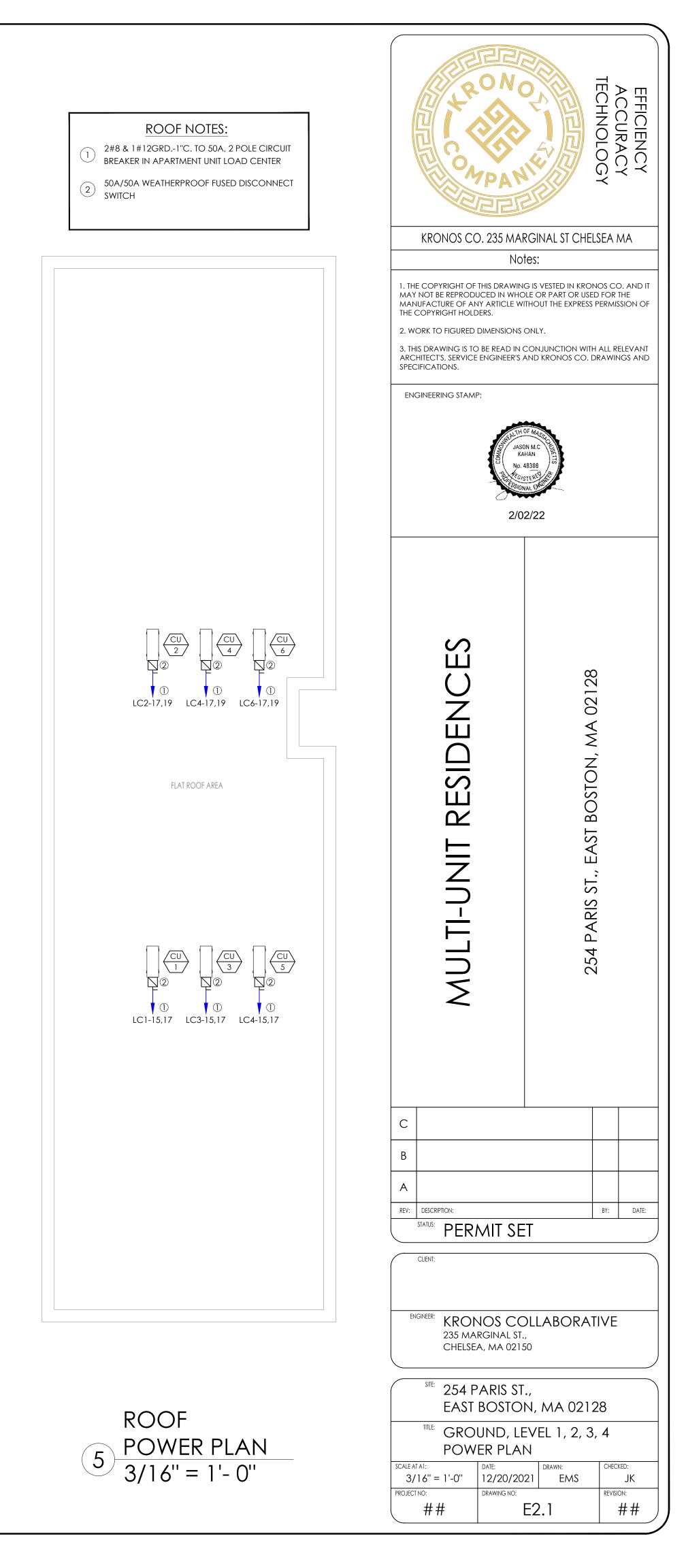
LEVEL 2 FLOOR 2 POWER PLAN 3/16" = 1'- 0"

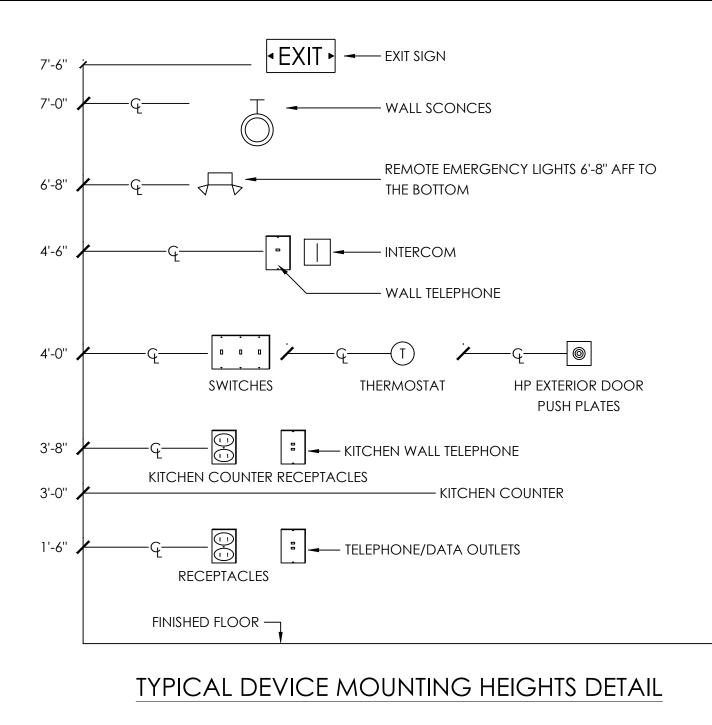






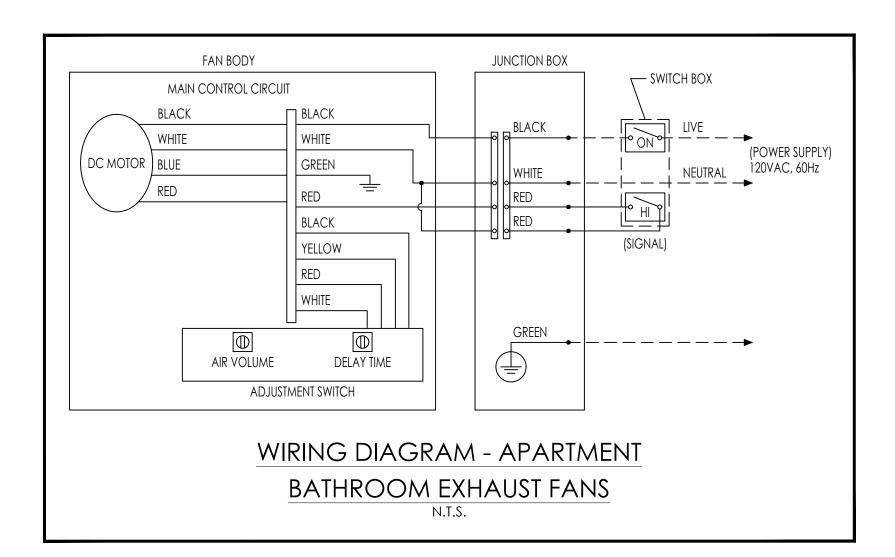


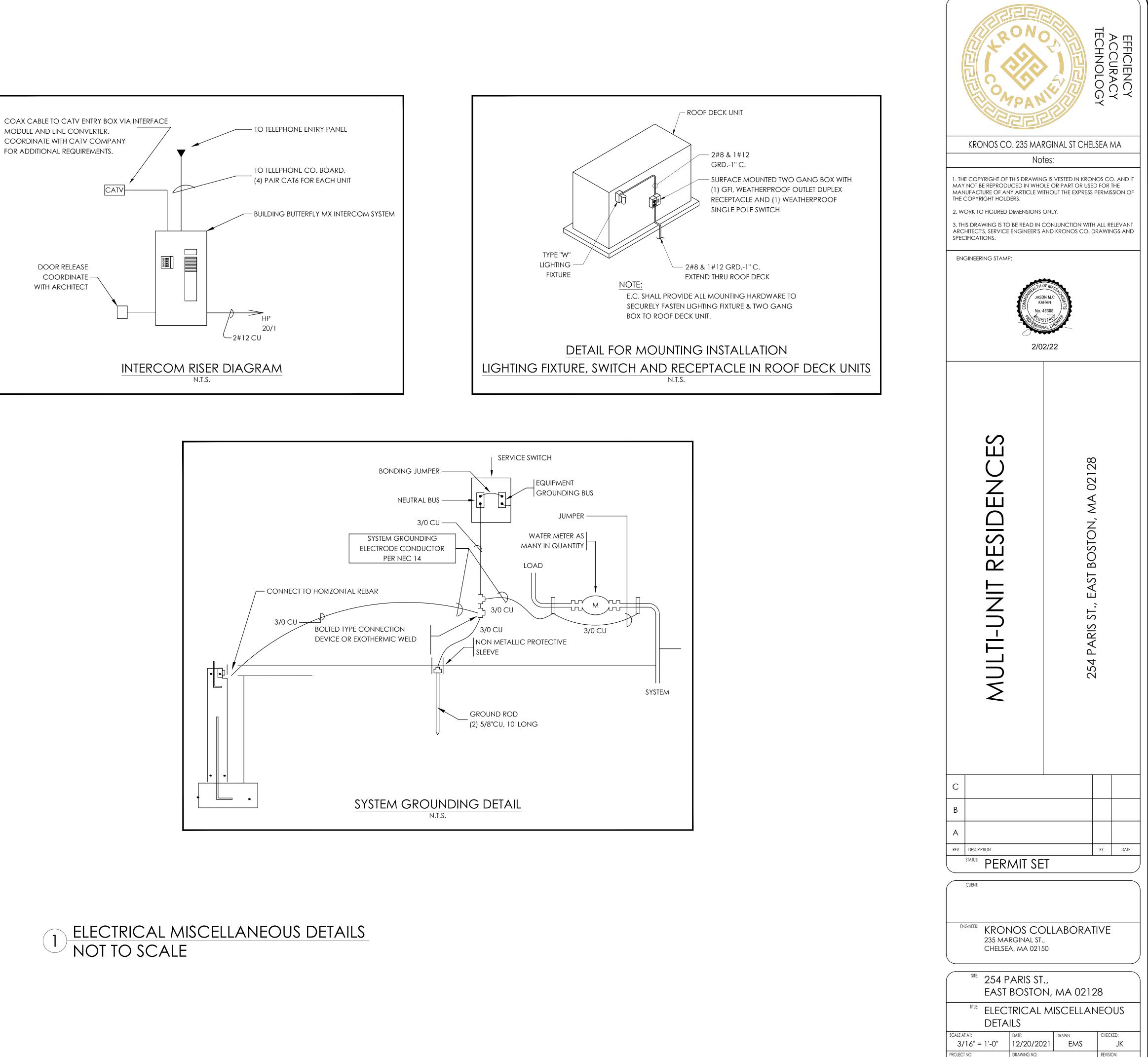


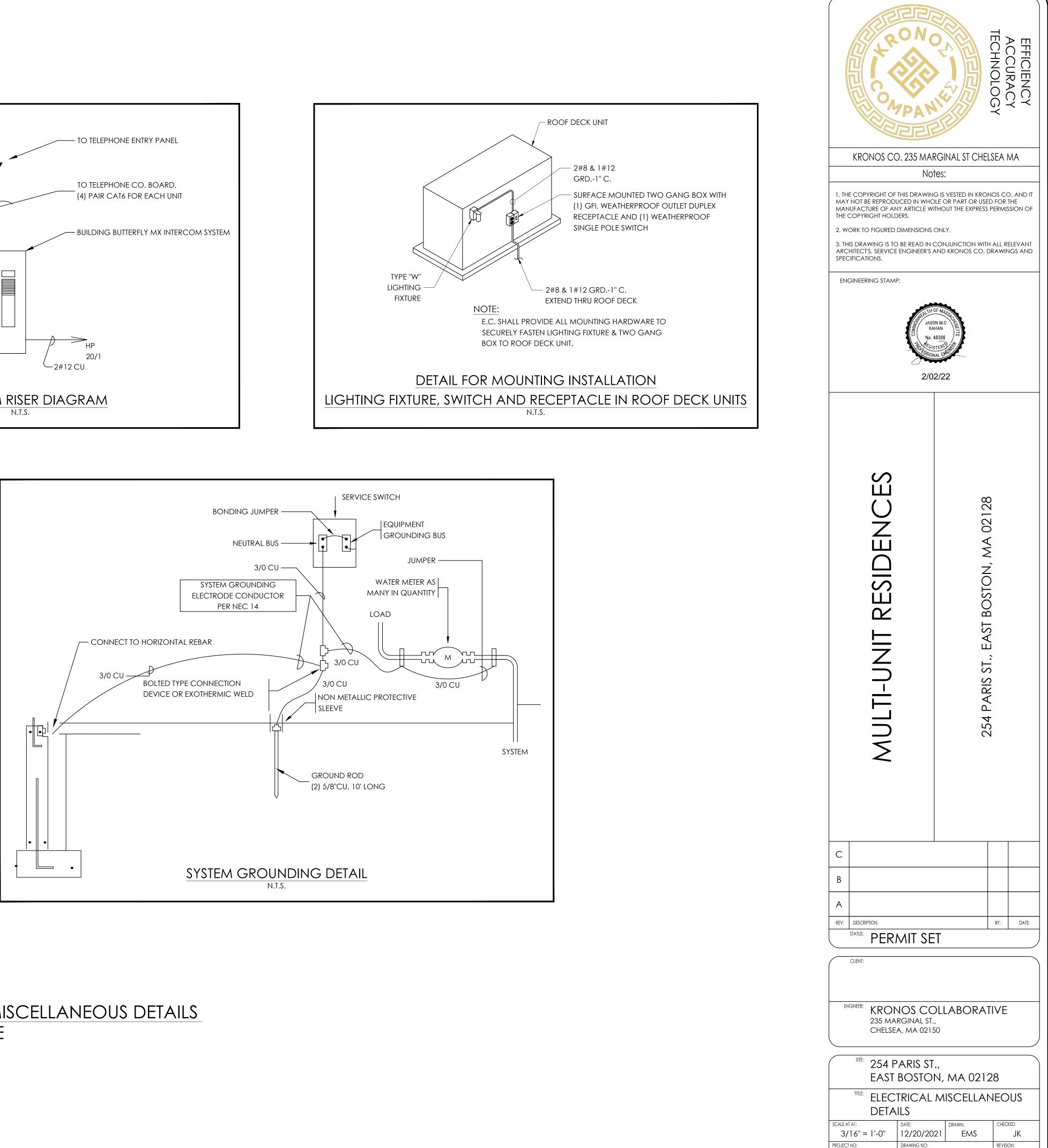


### NOTES

- 1. DEVICES SHALL BE INSTALLED IN A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
- 2. IN ADA ACCESSIBLE UNITS ANY CONTROL SWITCHES MOUNTING HEIGHT NO HIGHER THAN 48'' AFF.
- 3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL, UNO IN THESE CONTRACT DOCUMENTS, BY ARCHITECT OR BY OWNER.



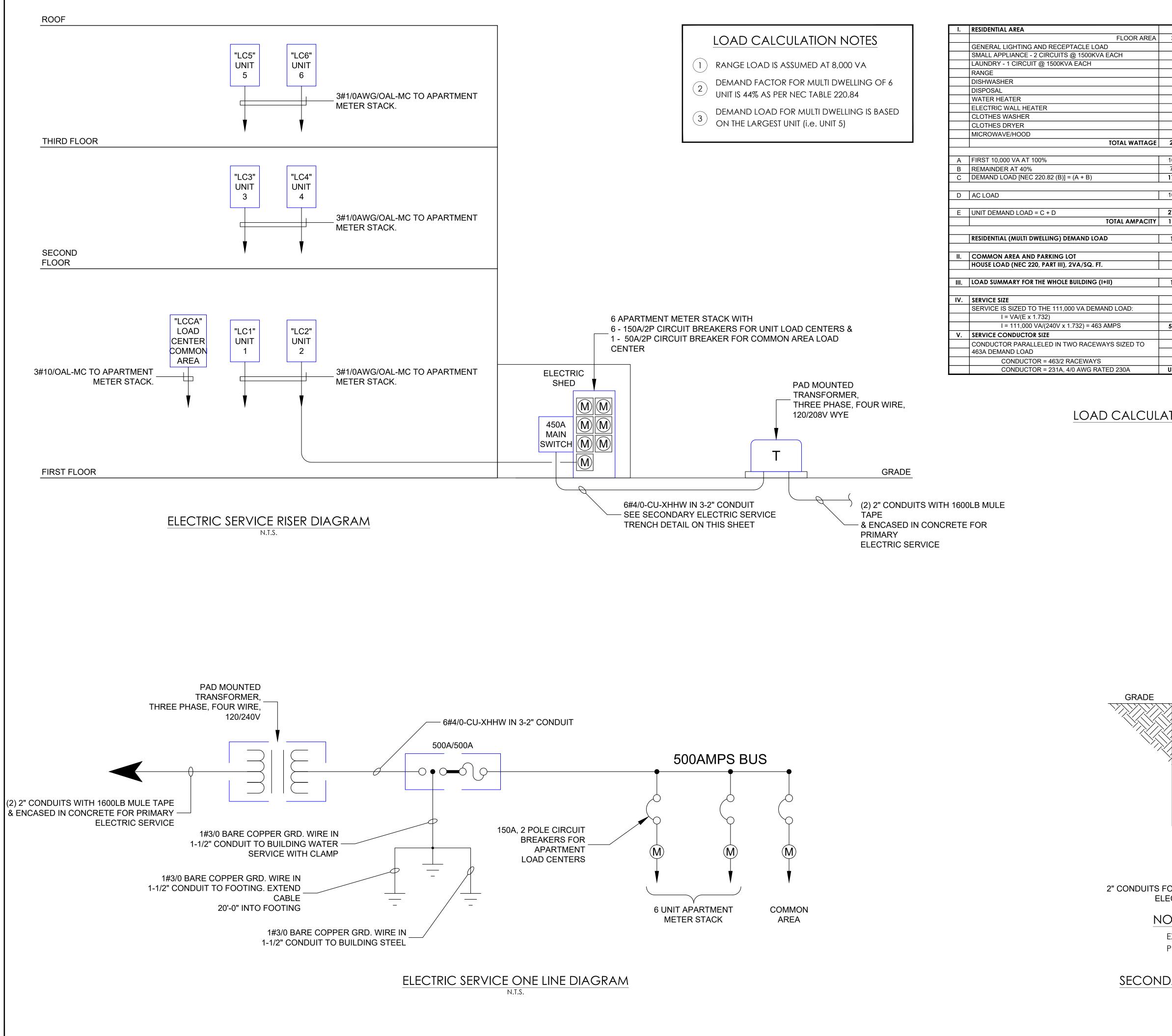




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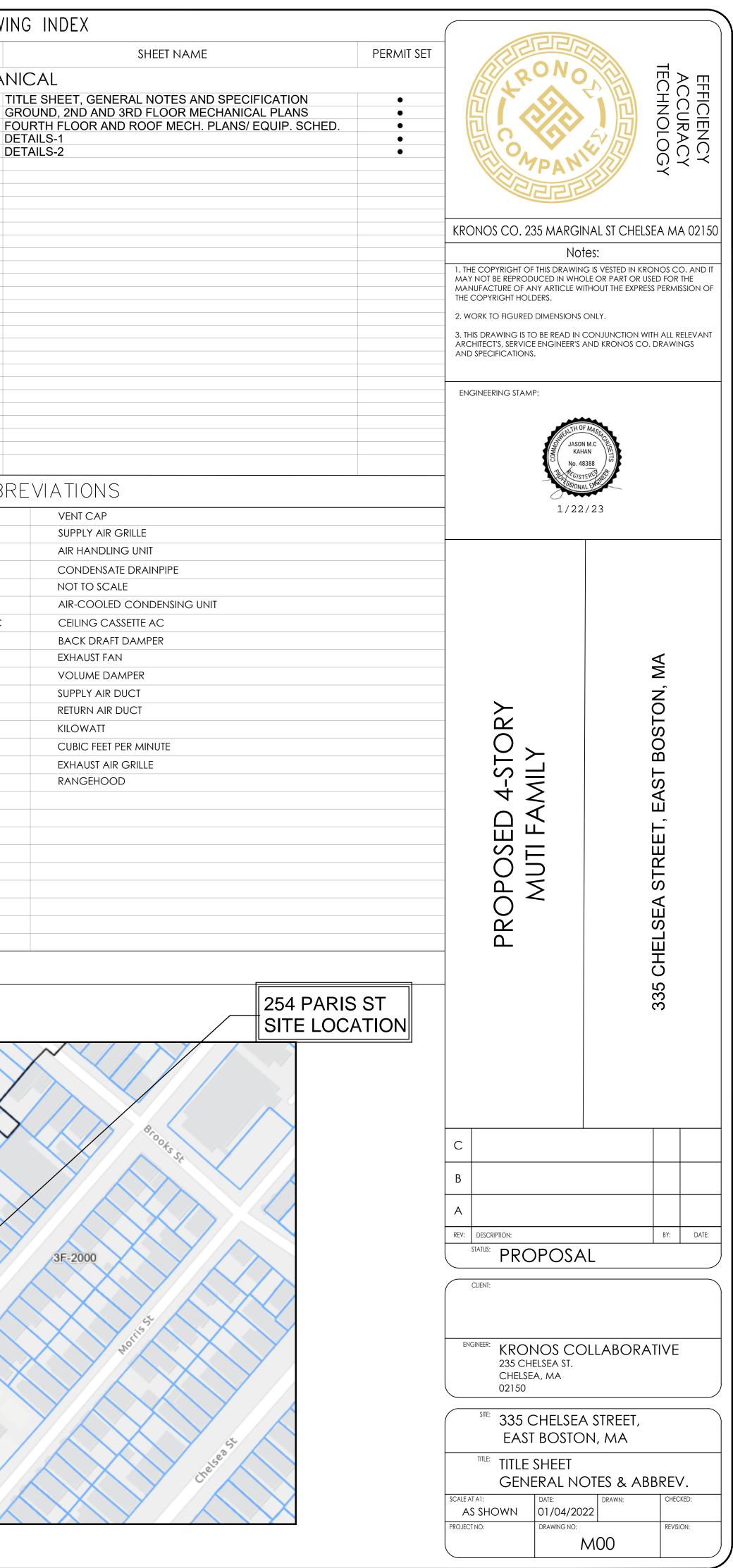
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						R	DNC		ТЕ АШ
<b>UNIT 1</b> 397 S.F.	<b>UNIT 2</b> 701 S.F.	<b>UNIT 3</b> 420 S.F.	<b>UNIT 4</b> 698 S.F.	<b>UNIT 5</b> 723 S.F.	<b>UNIT 6</b> 477 S.F.				EFFICIENCY ACCURACY
1,191 3,000	2,103 3,000	1,260 3,000	2,094 3,000	2,169 3,000	5,628 3,000				ICIENC
1,500 8,000	1,500 8,000	1,500 8,000	1,500 8,000	1,500 8,000	1,500 8,000	P.O.			Ч Ч С С С
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1,200 6,000	1,200 6,000	1,200 6,000	1,200 6,000	1,200 6,000	1,200 6,000	KRONOS CO.	235 MAR	GINAL ST CHELS	SEA MA
1,000 <b>28,131 W</b>	1,000 <b>29,043 W</b>	1,000 28,200 W	1,000 <b>29,034 W</b>	1,000 <b>29,109 W</b>	1,000 28,371 W		Note	es:	
10,000 VA	10,000 VA	10,000 VA	10,000 VA	10,000 VA	10,000 VA	1. THE COPYRIGHT OF THI MAY NOT BE REPRODUCT	ED IN WHOL	le or part or used	FOR THE
7,252 VA <b>17,252 VA</b>	7,617 VA 17,617 VA	7,280 VA 17,280 VA	7,614 VA <b>17,614 VA</b>	7,644 VA 17,644 VA	7,348 VA 17,348 VA	MANUFACTURE OF ANY A THE COPYRIGHT HOLDER		HOUT THE EXPRESS P	ermission of
10,000 VA	10,000 VA	10,000 VA	10,000 VA	10,000 VA	10,000 VA	2. WORK TO FIGURED DIN 3. THIS DRAWING IS TO BE			ALL RELEVANT
27,252 VA 131 AMPS	27,617 VA 133 AMPS	27,280 VA 131 AMPS	27,614 VA 133 AMPS	27,644 VA 133 AMPS	27,348 VA 131 AMPS	ARCHITECT'S, SERVICE EN SPECIFICATIONS.			
104 KVA	(NOTES 2 & 3)	131 AMP3	133 AMF3	133 AMPS	131 AMP3	ENGINEERING STAMP:			
104 KVA									
7 KVA							WEALTH OF	F MASSAC	
111 KVA	TOTAL DEMAND	LOAD					JASON KAH	AN PER	
							TE SIONA	TERES LE	
500 AMPS	MAIN SWITCH [	240.6(A)]					2/02	2/22	
							2/02		
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	Ν	I.T.S.						ULATION &	DETAILS
						3/16" = 1'-0" 1	2/20/202		JK
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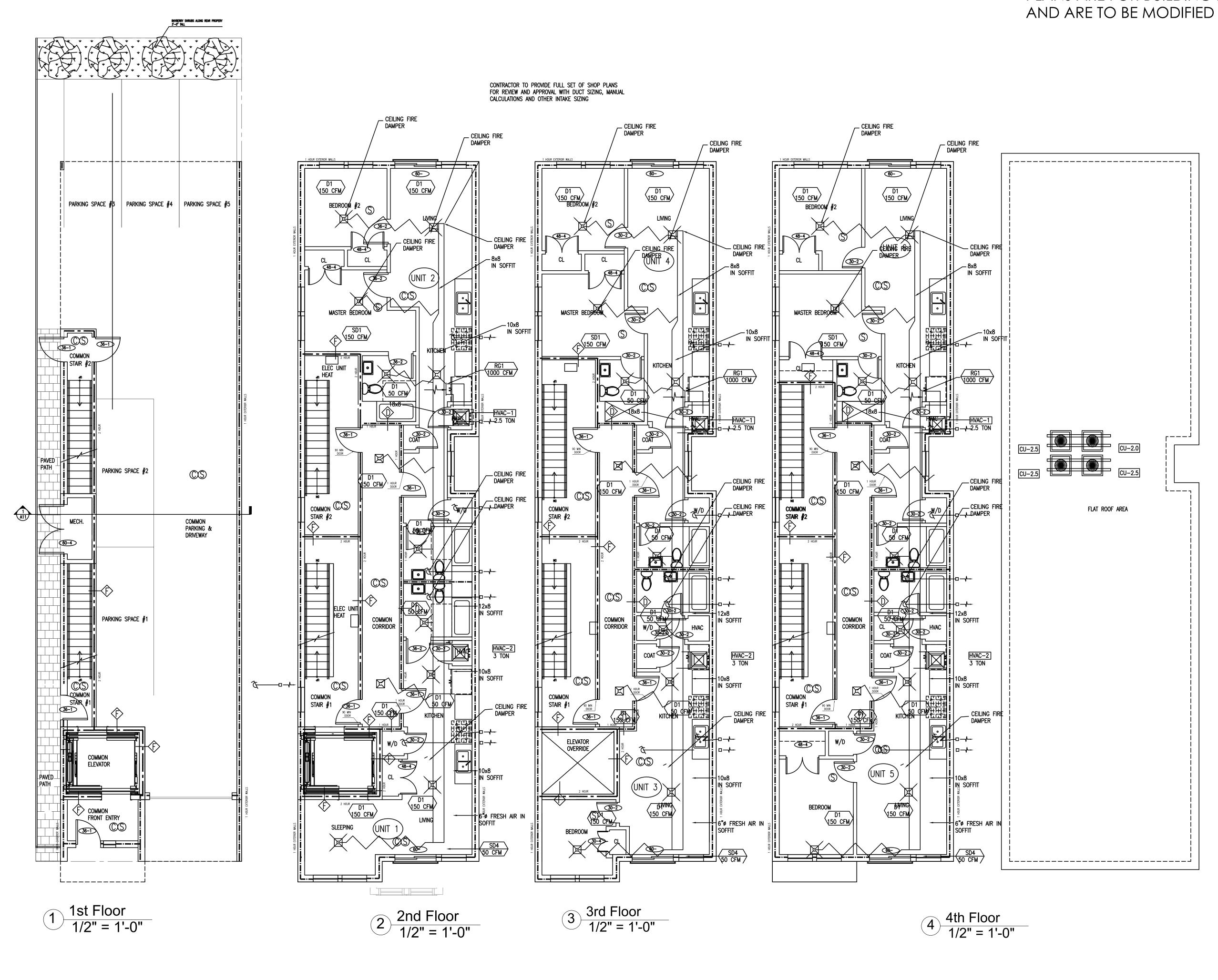
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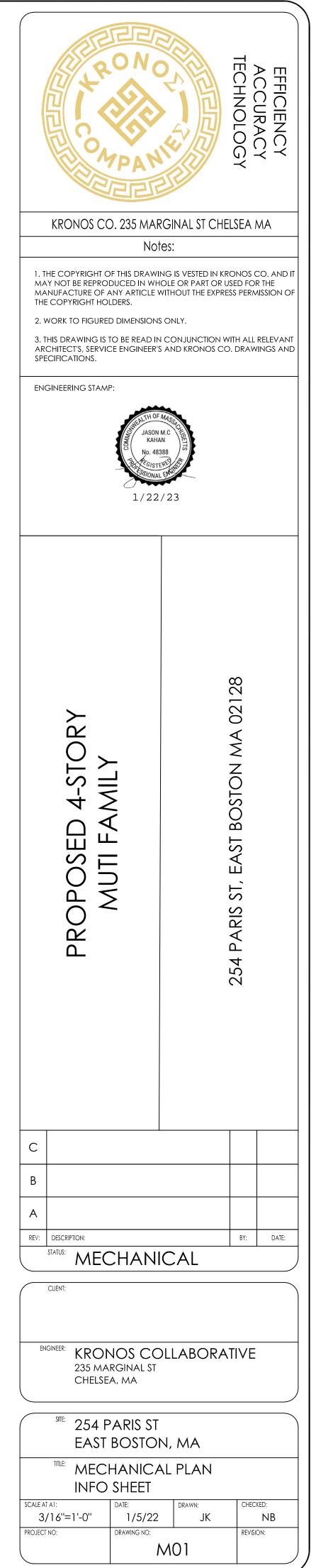
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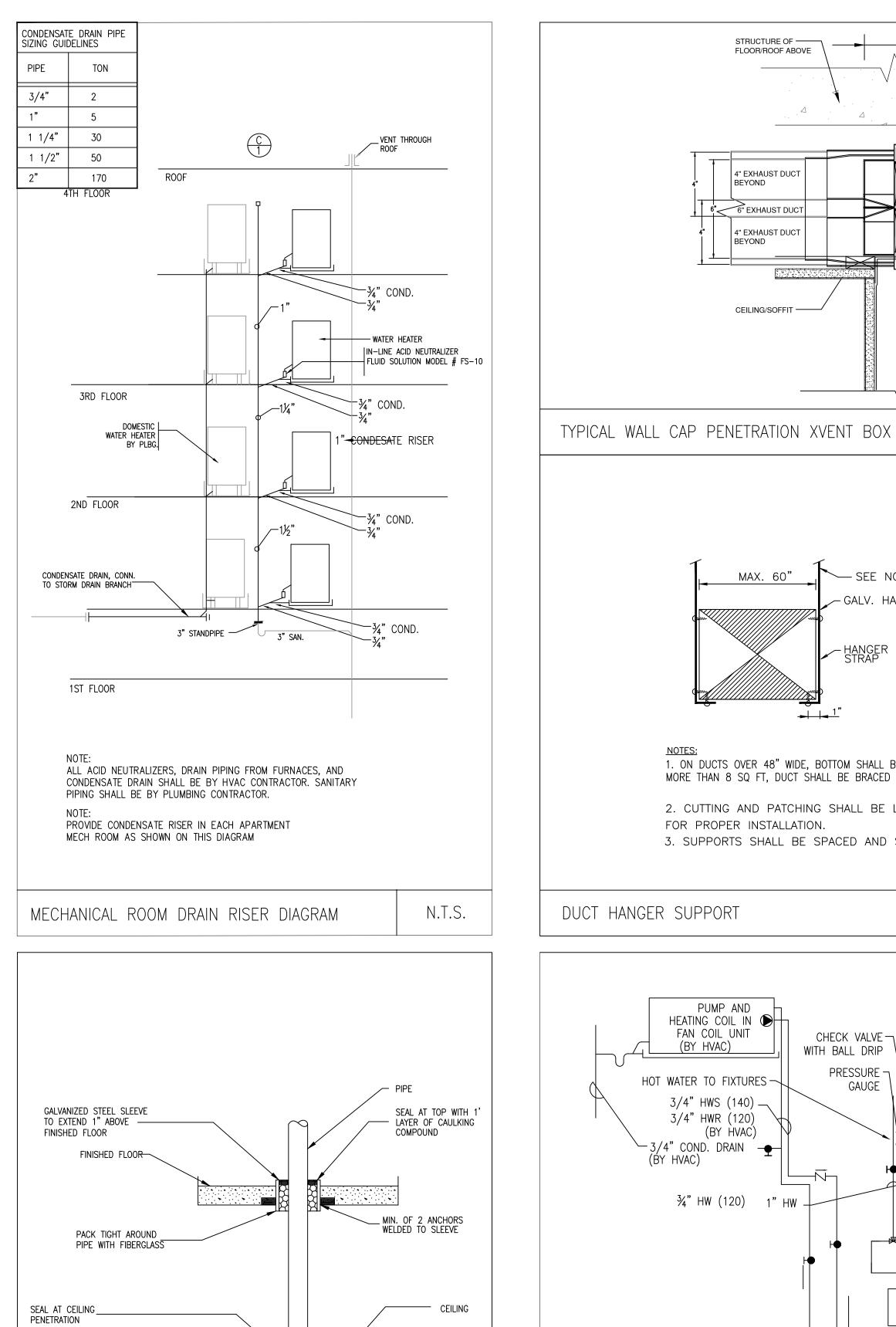
		LEGEND & SYMBOLS	DRAWIN
PROPOSE MULTI-	SYMBOLS     DESCRIPTION       SUPPLY AIR DUCT UP     SUPPLY AIR DUCT DOWN       RETURN AIR DUCT UP     RETURN AIR DUCT DOWN       RETURN AIR DUCT DOWN     VOLUME DAMPER       VOLUME DAMPER     MOTORIZED DAMPER       FD     FIRE DAMPER       I'' LINED DUCTWORK     I'' LINED DUCTWORK       SUPPLY AIR REGISTER     SUPPLY AIR REGISTER       SUPPLY AIR DIFFUSER     CEILING TRANSFER GRILL       AD     ACCESS DOOR	NUMBER MECHANI M00 TIT M01 GR M02 FOU M03 DE M04 DE	
		CFD CEILING FIRE DAMPER	
GENERAL NOTES	FIRE RATED CEILING NOTES	EQUIPMENT TAG NUMBERS	ABBRE
SHOULD ANY CONTRADICTION, AMBIGUITY, ERROR, INCONSISTENCY, OMISSION OR INCOMPLETE SYSTEM APPEAR IN OR BETWEEN ANY OF CONTRACT DOCUMENTS THE CONTRACTOR SHALL, BEFORE SUBMITTING THE FINAL BID AND SIGNING THE CONTRACT FOR CONSTRUCTION, NOTIFY THE ARCHITECT AND REQUEST A WRITTEN RESOLUTION AS TO WHICH METHODS OR MATERIALS WILL BE REQUIRED. IN THE EVENT OF CONFLICTING REQUIREMENTS OF STANDARDS, DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL COMPLY WITH THE MORE STRINGENT REQUIREMENTS. BEFORE SUBMITTING THE FINAL BID AND THE SIGNING THE CONTRACT FOR THE CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION FROM THE ARCHITECT, IN NO CASE SHALL THE CONTRACTOR PROCEED WITH THE AFFECTED WORK UNTIL ADVISED BY THE ARCHITECT. IF THE CONTRACTOR FAILS TO MAKE A REQUEST FOR INTERPRETATION OR RESOLUTION NO EXCUSE WILL BE ACCEPTED FOR FAILURE TO CARRY OUT THE WORK IN A SATISFACTORY MANNER, AS INTERPRETED BY THE ARCHITECT. THIS GENERALLY MEANS THE USE OF THE HIGHEST QUALITY MATERIAL, MOST EXPENSIVE WAY OF PERFORMING WORK AND PROVIDING COMPLETE FUNCTIONING SYSTEM FOR PROPER OPERATION. EACH AND EVERY TRADE OR SUBCONTRACTOR WILL BE DEEMED TO HAVE FAMILIARIZED THEMSELVES WITH ALL THE CONTRACT DOCUMENTS OF THIS PROJECT, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND SITE WORK, AND TO HAVE VISITED THE SITE, SO AS TO AVOID ERROR, OMISSIONS AND MISINTERPRETATIONS, RELATED INFORMATION MAY BE PROVIDED ON CONTRACT DOCUMENTS OTHER THAN THOSE ASSOCIATED WITH THE SUBCONTRACTOR'S TRADE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELATED WORK OF ALL THE CONTRACT DOCUMENTS. NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR ALLEGED ERRORS, OMISSIONS AND MISINTERPRETATIONS, RELATED INFORMATION MAY BE PROVIDED ON CONTRACT DOCUMENTS OTHER THAN THOSE ASSOCIATED WITH THE SUBCONTRACTOR'S TRADE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELATED WORK OF ALL THE CONTRACT DOCUMENTS. NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR ALLEGED ERRORS, OMISSIONS AND MISINTERPRETATIONS WHETHER THEY ARE A RESULT OF FAILURE	WHEN DUCT PENETRATE RATED CEILING: -ALL RECESSED DIFFUSERS AND REGISTERS SHALL HAVE RADIATION DAMPERS. -ALL UNITS DUCTED TO PLENUM SPACE SHALL HAVE CEILING FIRE DAMPERS TO MEET UL 555C -ALL RETURN DUCTS SHALL BE BELOW THE RATED CEILING, DROPPED CEILING AREAS SHALL NOT BE RATED CEILING UNLESS SHOWN OTHERWISE -ALL RETURN AIR GRILLES IN RATED CEILING SHALL HAVE CEILING FIRE DAMPERS -ALL UNIT DISCHARGES SHALL BE OFFSET TO GET INTO PROPER JOIST SPACES, CARRY TRANSITION PIECE AS NEEDED -ALL DUCTS LARGER THAN 4"Ø DIAMETER SHALL HAVE FIRE DAMPERS AT CEILING PENETRATIONS	EF=#       EXHAUST FAN         CU=#       CONDENSING UNIT         AC=#       SPLIT SYSTEM AC UNIT         HVAC=#       AIR HANDLER UNIT         UH=#       UNIT HEATER UNIT         EQUIPMENT SYMBOLS         J _{VD} VOLUME DAMPERS         Image: Control symbols         Image: Control symbols         Control symbols	VC SAG AHU CDP NTS ACCU CCAC BDD CCAC BDD EF VD SAD RAD RAD KW CFM EAG RH
INSULATION NOTED	CEILING RADIATION DAMPERS	T TS WALL MOUNTED THERMOSTAT/SENSOR	
<ol> <li>HEATING HOT WATER MAINS AND BRANCHES: PIPING &lt; 1" REQUIRES 1 1/2" INSULATION PIPING &gt; 1½" REQUIRES 2" INSULATION</li> <li>SUPPLY &amp; RETURN DUCTWORK FROM HVAC UNITS: 1 1/2" INSULATION MIN. R-6</li> <li>REFRIGERANT PIPING ¾" ARAMFLEX</li> </ol>	CEILING RADIATION DAMPERS SHALL BE AS MANUFACTURED BY GREENHECK MODEL CRD-1WT FOR SIDE INLET MODEL CRD-2WT FOR TOP INLET CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE UL LISTED DAMPER WITH THE UL LISTING OF THE CEILING APPROVED CEILING RATINGS ARE L-528,546,558,562,574,576,581,583,585,592 M-501,503,508	HUMIDISTAT/SENSOR	ITY MAP
	P-533,538,545,547,548,554		
DIFFUSER/ REGISTER SCHEDULE         LEGEND:       Image: CFM         TYPE       DESCRIPTION       MODEL (BASED ON TITUS)         SD1       DOUBLE DEFLECTION REGISTER FOR SHEET ROCK INSTALLATION. PROVIDE ROUND TO SQUARE ADAPTOR.       TTUS 272RS 12x6         SD2       DOUBLE DEFLECTION REGISTER FOR SHEET ROCK INSTALLATION. PROVIDE ROUND TO SQUARE ADAPTOR.       TTUS 272RS 12x6         SD3       DOUBLE DEFLECTION REGISTER FOR SHEET ROCK INSTALLATION. TOE KICK       TTUS 272RS 12x6         SD4       LOWER FACE CELING DIFFUSER FOR SHEET ROCK INSTALLATION. PROVIDE ROUND TO SQUARE ADAPTOR. WITH OPPOSIBLE BLADE DAMPER       TTUS 10CA, BORDER 1 6x6         RG1       DOUBLE DEFLECTION CRILLE FOR SHEET ROCK NSTALLATION. WITH OPPOSIBLE BLADE DAMPER       TTUS 25 RS 20x20         RG2       DOUBLE DEFLECTION CRILLE FOR SHEET ROCK NSTALLATION. WITH OPPOSIBLE BLADE DAMPER       TTUS 25 RS 20x20         RG2       DOUBLE DEFLECTION CRILLE FOR SHEET ROCK NSTALLATION. WITH OPPOSIBLE BLADE DAMPER       TTUS 25 RS 20x20	SIZE         MAX. CFM           6" DIA         100           7" DIA         150           8" DIA         200           9" DIA         300           10" DIA         400           8x6         200           8x8         250           10x8         300           12x8         450           14x8         500           16x8         600           18x8 0R 16x10         700           20x8 0R 18x10         800           24x8 0R 20x10         1000           30x8 0R 24x10         1200   NOTE: MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 4' USE INSULATED SEMI RIGID BUCK DUCT.		





# CONTRACTOR TO SUPPLY SHOP PLANS PLANS ARE FOR BUILDING PERIT SET



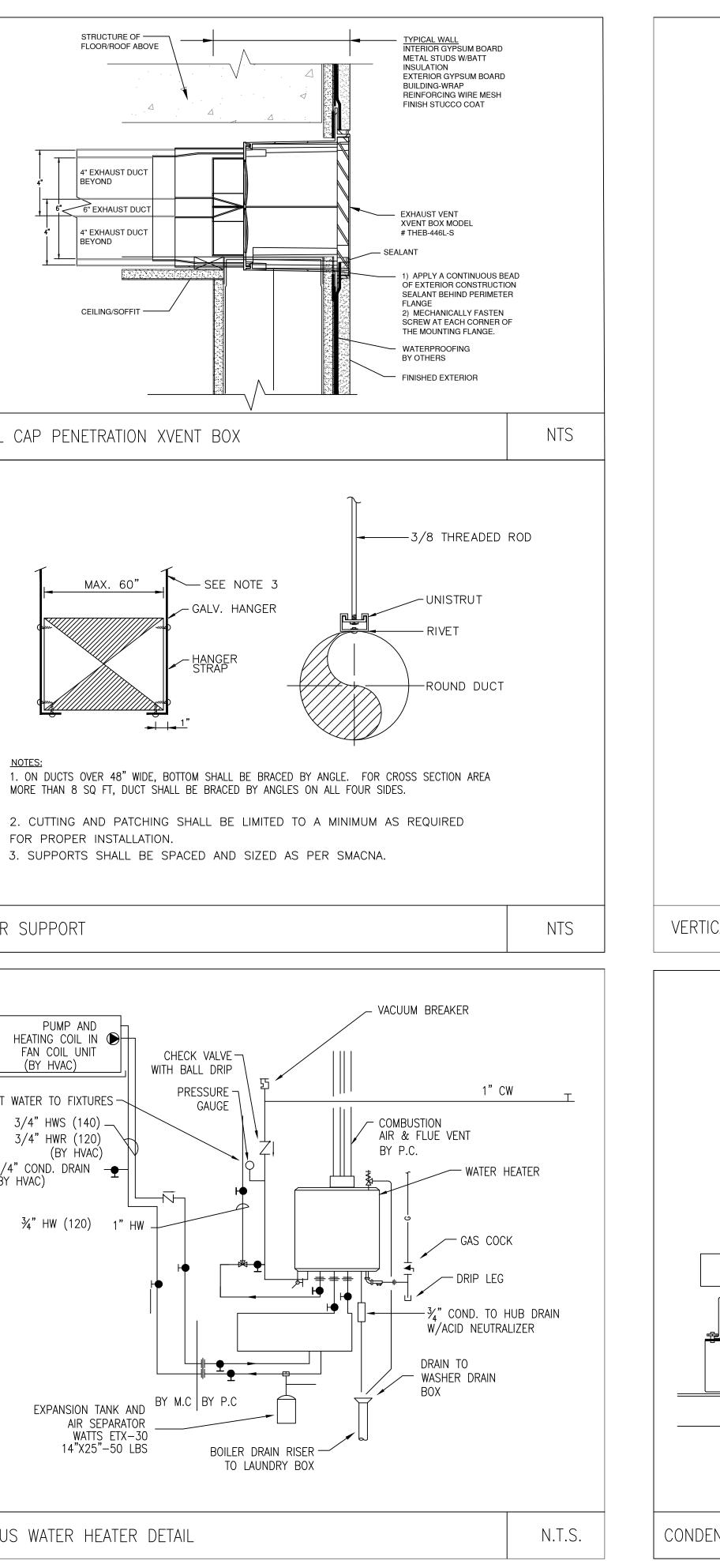


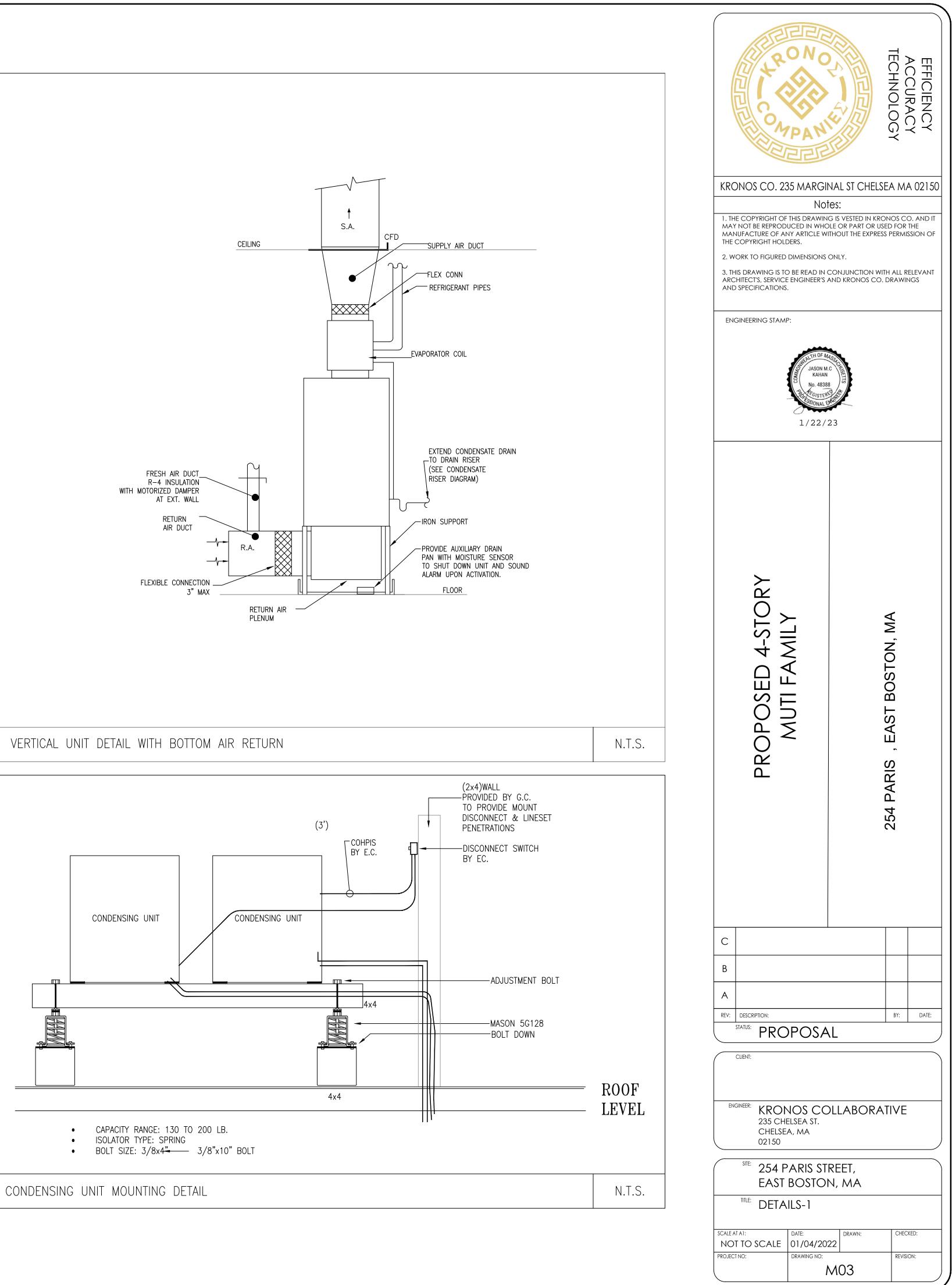
NTS

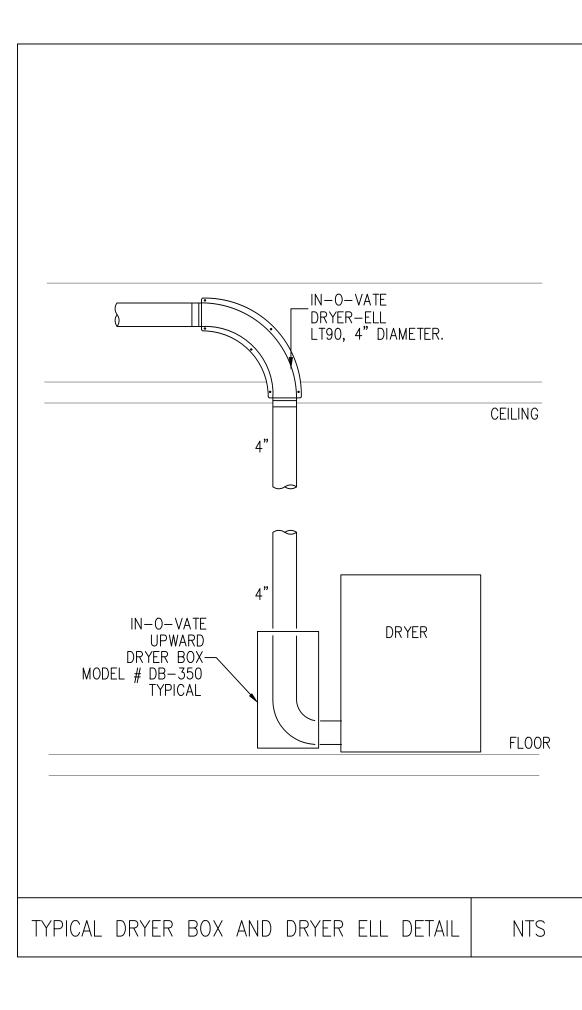
PIPE SLEEVE THRU FLOOR PENTRATION DETAIL

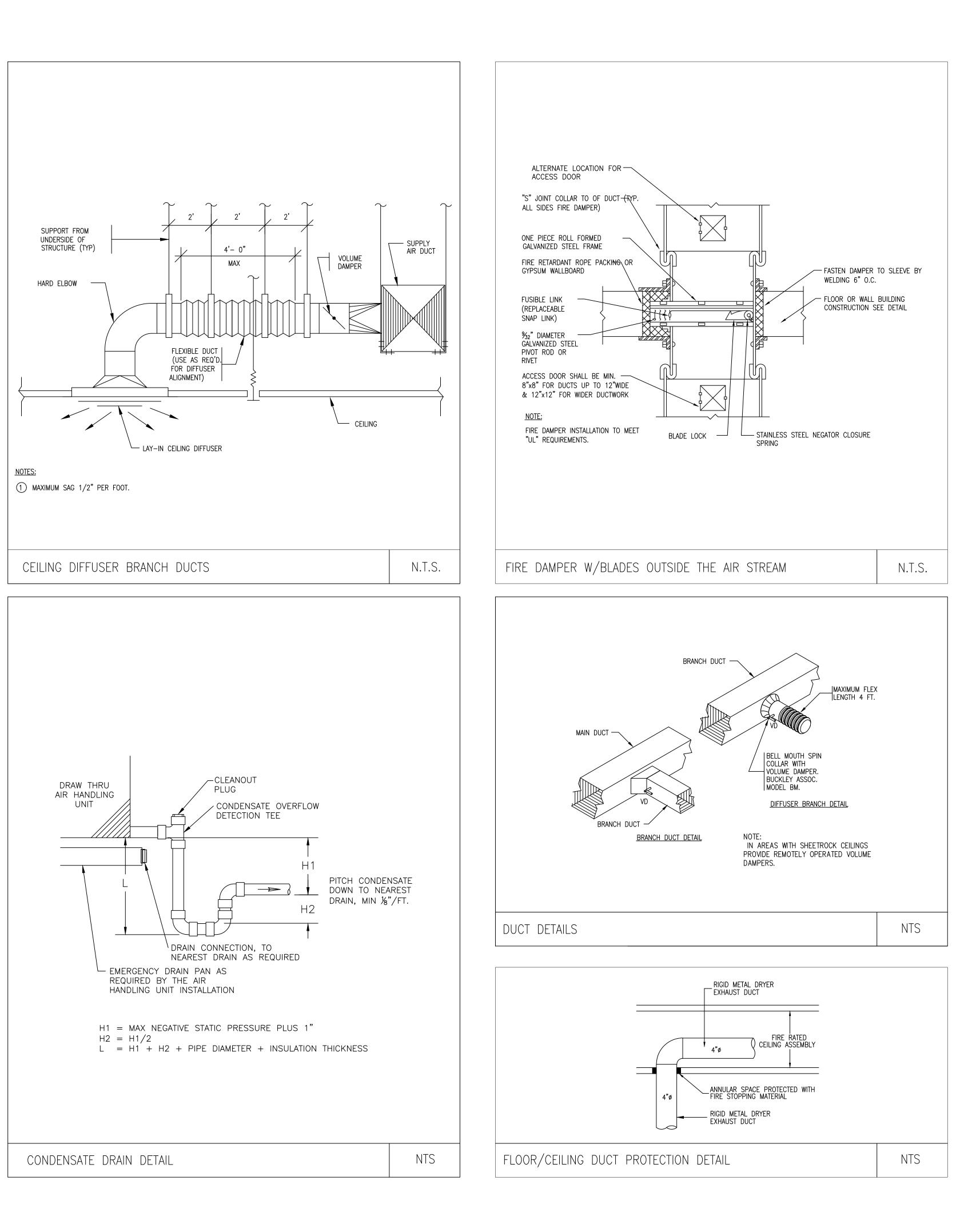
3/4" HWR (120) (BY HVAĆ) - 3/4" COND. DRAIN – – (BY HVAC) ¾"HW (120) 1"HW EXPANSION TANK AND AIR SEPARATOR WATTS ETX-30 14"X25"-50 LBS BOILER D

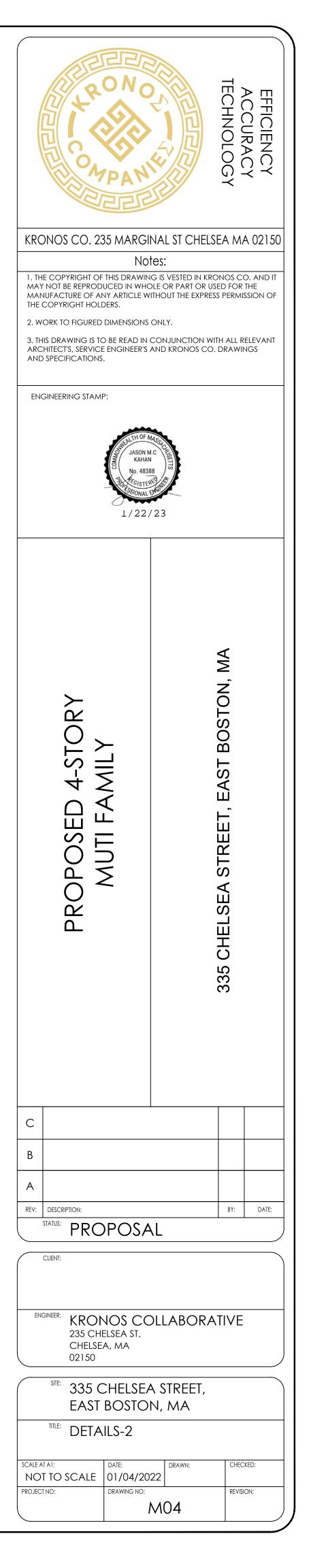
INSTANTANEOUS WATER HEATER DETAIL











# PLUMBING NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FIRE WALLS. ANY PENETRATION THROUGH FIRE FLOORS SHALL BE <u>FIRE STOPPED</u>. ANY PENETRATION THROUGH FIRE WALL SHALL BE <u>FIRE CAULKED</u>. REFER TO SECTION 7275 FOR PROCEDURE.
- 2. WITHOUT LIMITATION PAY ATTENTION TO THE FOLLOWING ITEMS:
- A. CHASES BEHIND BATHROOM (WALL BETWEEN CORRIDOR AND BATHROOM) AND WALLS BETWEEN UNITS ARE FIRE RATED. <u>FIRE CAULK</u> ALL PENETRATIONS.
- B. TOP AND BOTTOM WALL PLATES AT CEILING AND AT FLOOR IS PART OF FIRE SEPARATION. FIRE STOP ALL PENETRATIONS THROUGH PLATES.

# **GENERAL NOTES:**

1. SHOULD ANY CONTRADICTION, AMBIGUITY, ERROR, INCONSISTENCY, OMISSION OR INCOMPLETE SYSTEM APPEAR IN OR BETWEEN ANY OF CONTRACT DOCUMENTS THE CONTRACTOR SHALL, BEFORE SUBMITTING THE FINAL BID AND SIGNING THE CONTRACT FOR CONSTRUCTION, NOTIFY THE ARCHITECT AND REQUEST A WRITTEN RESOLUTION AS TO WHICH METHODS OR MATERIALS WILL BE REQUIRED. IN THE EVENT OF CONFLICTING REQUIREMENTS OF STANDARDS, DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL COMPLY WITH THE MORE STRINGENT REQUIREMENTS. BEFORE SUBMITTING THE FINAL BID AND THE SIGNING THE CONTRACT FOR THE CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A WRITTEN INTERPRETATION FROM THE ARCHITECT. IN NO CASE SHALL THE CONTRACTOR PROCEED WITH THE AFFECTED WORK UNTIL ADVISED BY THE ARCHITECT.

IF THE CONTRACTOR FAILS TO MAKE A REQUEST FOR INTERPRETATION OR RESOLUTION NO EXCUSE WILL BE ACCEPTED FOR FAILURE TO CARRY OUT THE WORK IN A SATISFACTORY MANNER, AS INTERPRETED BY THE ARCHITECT. THIS GENERALLY MEANS THE USE OF THE HIGHEST QUALITY MATERIAL, MOST EXPENSIVE WAY OF PERFORMING WORK AND PROVIDING COMPLETE FUNCTIONING SYSTEM FOR PROPER OPERATION.

EACH AND EVERY TRADE OR SUBCONTRACTOR WILL BE DEEMED TO HAVE FAMILIARIZED THEMSELVES WITH ALL THE CONTRACT DOCUMENTS OF THIS PROJECT, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND SITE WORK, AND TO HAVE VISITED THE SITE, SO AS TO AVOID ERROR, OMISSIONS AND MISINTERPRETATIONS. RELATED INFORMATION MAY BE PROVIDED ON CONTRACT DOCUMENTS OTHER THAN THOSE ASSOCIATED WITH THE SUBCONTRACTOR'S TRADE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELATED WORK OF ALL THE CONTRACT DOCUMENTS. NO ADDITIONAL COMPENSATION WILL BE AUTHORIZED FOR ALLEGED ERRORS, OMISSIONS AND MISINTERPRETATIONS WHETHER THEY ARE A RESULT OF FAILURE TO OBSERVE THIS REQUIREMENT OR NOT.

2. ALL PENETRATIONS OF ASSEMBLIES EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL BE SEALED WITH FOAM SEALANT OR EQUIVALENT SEALER TO PROVIDE ZERO AIR INFILTRATION. COORDINATE WITH FIRE STOPPING REQUIREMENTS.

3. NO COMPONENT OF ANY SYSTEM SHALL RUN THROUGH THE STAIR ENCLOSURE THAT DOES NOT RELATE TO OR SERVE THE STAIR ENCLOSURE.

INSULATION NOTES	PIPING MATE
THE FOLLOWING SYSTEMS SHALL BE INSULATED. DUCT LINER SHALL BE CLOSED CELL TYPE, GERM PROOF	SANITARY AND VENT: BELOW
ESTAR REQUIREMENTS: 1. DOMESTIC HOT WATER & RECIRCULATION MAINS AND BRANCHES: PIPING < 1" REQUIRES 1" INSULATION PIPING > 1½" REQUIRES 1½" INSULATION IECC 2015 REQUIREMENTS:	ABOVE GROUND: -SCH.40 PVC W PLUMBING FIXTU FLOORS, IF SAN COMMERICAL FIX BEYOND SHALL CONNECTION FRO FIXTURES HAPPE
1. DOMESTIC HOT WATER MAINS AND BRANCHES: PIPING < 1" REQUIRES 1" INSULATION PIPING > 1½" REQUIRES 2" INSULATION GENERAL INSUALTION REQUIREMENTS:	TO CAST IRON I -SWCI WITH HUS CONNECTIONS IN WATER PIPING: TYPE "
CW PIPING: ½" INSULATION HORIZONTAL STORM: ½" INSULATION THIS BUILDING WILL SHALL BE QUALIFIED FOR ESTAR, STRETCH CODE, AND LEED SILVER. PROVIDE THE MOST STRINGENT LEVELS OF INSULATION FOR QUALIFICATION	COMMERCIAL AND GAR LEVELS ONLY. GAS PIPING: SCHEDI JOINTS OR WELDED.

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	UNION HOSE BIBB ROOF DRAIN VENT STACK WASHER BOX WATER CLOSET
	VENT THRU ROOF HUB DRAIN FLOOR DRAIN FLOOR CLEANOUT
	WALL CLEANOUT VENT RISER
≫ ⊣co	FLOOR CLEANOUT CLEANOUT
	HOT WATER CIRCULATION
	HOT WATER
	COLD WATER
	SANITARY ABOVE FLOOR

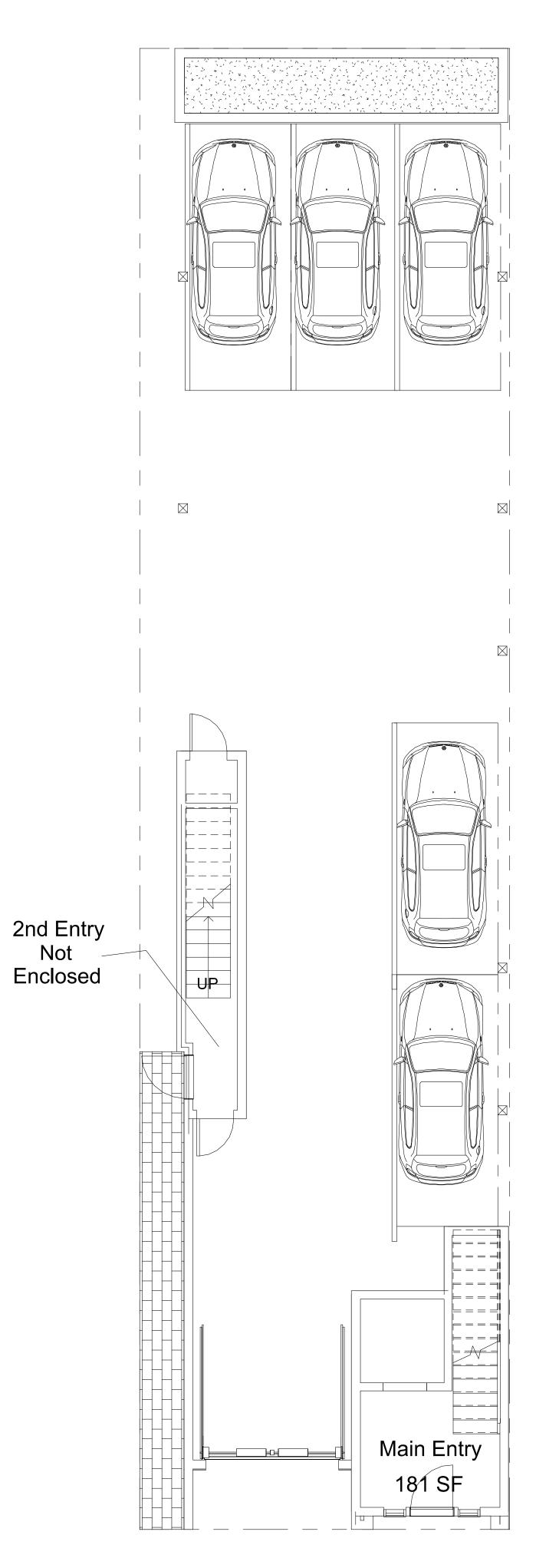
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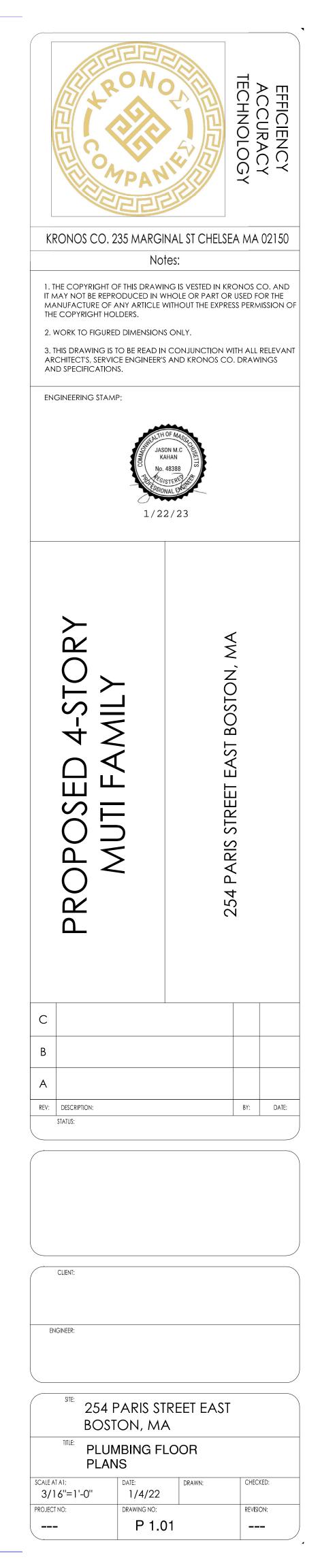
GROUND: SWCI WITH PUSH ON JOINTS.

WITH SOLVENT JOINTS FOR ALL URES ONLY SERVING RESIDENTIAL NITARY MAIN CONNECTS TO XTURES FROM THAT POINT AND BE CAST IRON. IF ANY ROM RESIDENTIAL TO COMMERCIAL PENS ON FIRST LEVEL TRANSITION IN RESIDENTIAL LEVEL. JSKY 4-BAND CLAMPS FOR ALL PLUMBING IN IN COMMERCIAL AND GARAGE LEVELS.

"L" COPPER WITH 95–5 SOLDER JOINTS IN RAGE LEVEL, CPVC IN RESIDENTIAL

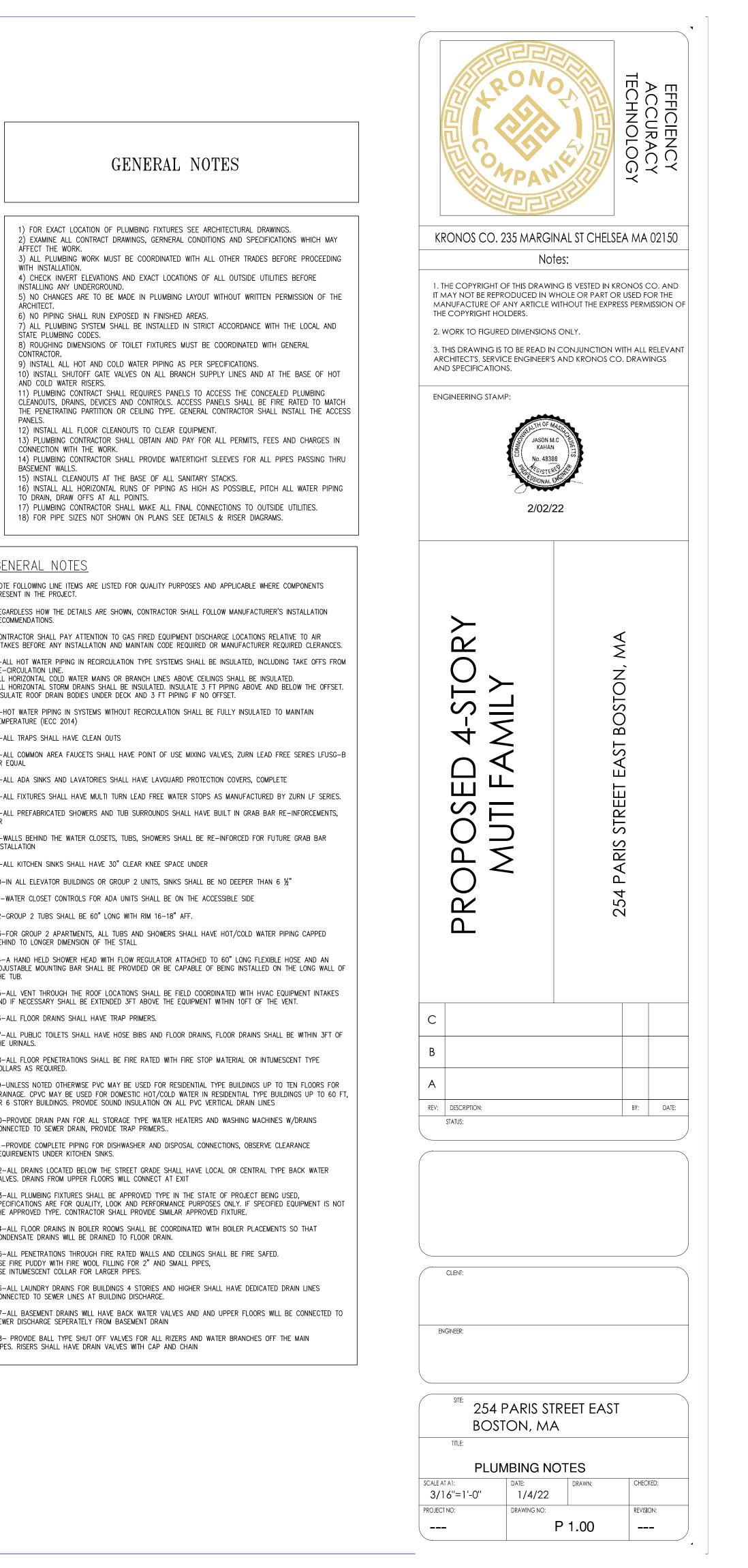
DULE 40 ER/ERW BLACK STEEL WITH THREADED

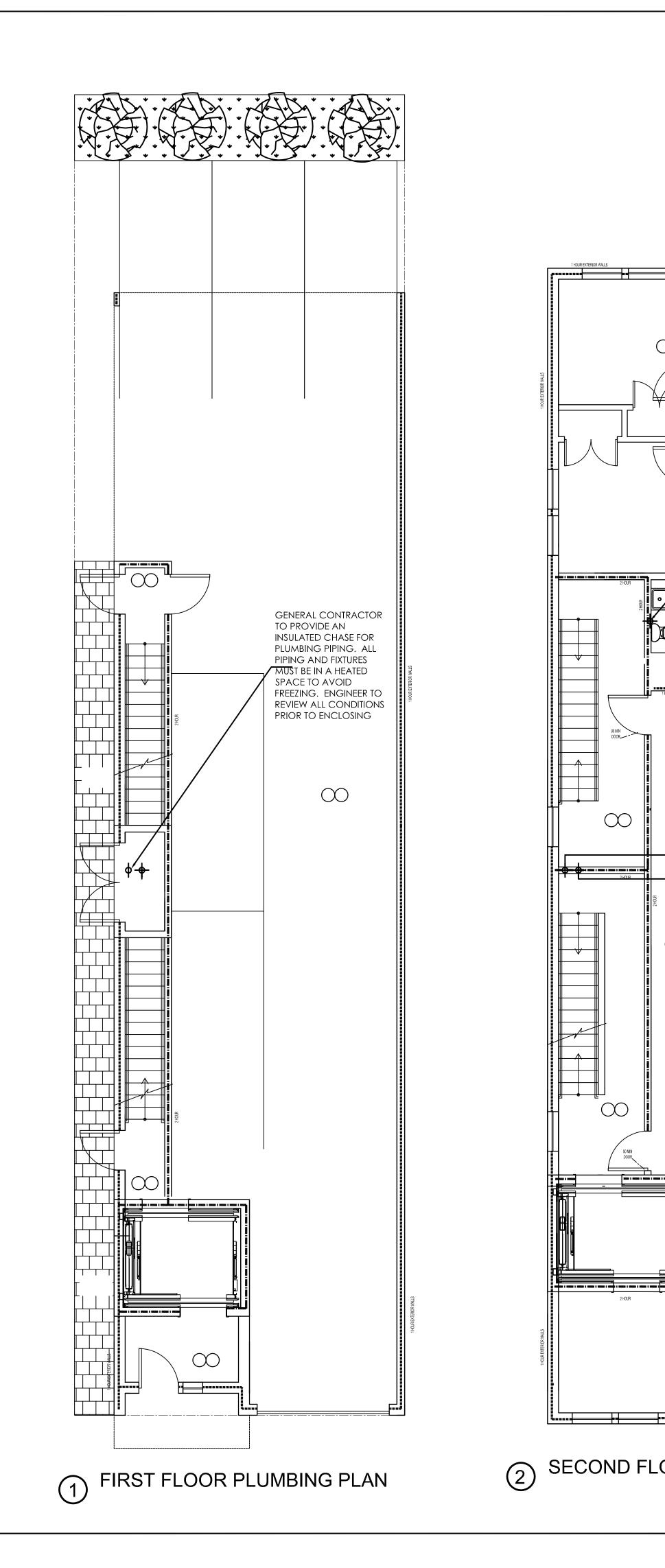




						PLUMBINO	G FIXTURE S	SPECIFICATIO	ON SO	CHEDUL	Ε				
DESIGNATION FIXTURE	SYMBOL	MANUFACTURER		FIXTURE				FITT	TING		CARRIER	LOCATION		REMARKS	
STMBOL			MODEL	TYPE	SIZE	MANUF/MODEL#	ТҮРЕ	SUPPLY		TRAP					
REFER TO ARCITECTURAL SPECIFIC	CATION FOR PL	1													
TRAP PRIMER P-6	T.P.	PRECISION PLUMBING PRODUCTS	PR-500	_	_	-	-	½" CW SUPPLY		_	_	AS SHOWN	Р	ROVIDE DU-4 FO	DR MULTIPLE TRAP PRIM
NOTE: ALL WASHER MACHINES TO	BE PROVIDED	WITH AQUA MANAGERS "FLO	DODSTOP" (FS 3/4-H) AUTOMATIC	C FLOOD PROTECTION KIT											
SIC PLUMBING REQUIREMENTS							COIII				h				
RT 1. – GENERAL RELATED DOCUMENTS				1.6 MAINTENANCE MANU ORGANIZE OPERATING AI			SCHI	EDULE O	F WATER	HEALEI	K				
ALL APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS APPLY TO THE WORK OF THIS SECTION INCLUDING, BUT NOT LIMITED TO, ALL DRAWINGS, ALL SPECIFICATIONS, GENERAL CONDITIONS, AND GENERAL REQUIREMENTS INCLUDING SUBMITTALS. 1.2 APPLICABLE CODES AND STANDARDS APPLICABLE CODES: ALL LOCAL AND STATE BUILDING CODES, INCLUDING THE INTERNATIONAL PLUMBING CODE			INDIVIDUAL HEAVY-DUTY 2-INCH, 3-RING VINYL-COVERED BINDERS, WITH POCKET FOLDERS FOR FOLDED SHEET INFORMATION. MARK APPROPRIATE IDENTIFICATION ON FRONT AND SPINE OF EACH BINDER. INCLUDE THE FOLLOWING TYPES OF INFORMATION: 1. COPIES OF WARRANTIES. 2. WIRING DIAGRAMS												
			4. APPROVED SHOP DR	<ol> <li>WIRING DIAGRAMS.</li> <li>INSPECTION PROCEDURES.</li> <li>APPROVED SHOP DRAWINGS AND PRODUCT DATA.</li> </ol>			DESIGNATION	NAME	LOC	CATION		DESCRIPTION			
ASSACHUSETTS STATE PLUMBING CODE A PPLICABILITY OF STANDARDS: EXCEPT WH PPLICABLE CONSTRUCTION INDUSTRY STA	ND THE MASSACI ERE THE CONTRA NDARDS HAVE TH	HÚSETTS STATE BUILDING CODE ACT DOCUMENTS INCLUDE MOR IE SAME FORCE AND EFFECT AS	E. RE STRINGENT REQUIREMENTS, AS IF BOUND OR COPIED DIRECTLY	DATA AND TESTS, AND ( 6. MANUFACTURER'S PR	COMPLETE NOMENCLATURE AND C INTED OPERATING PROCEDURES 1	RACTERISTICS AND LIMITATIONS, PERFORM COMMERCIAL NUMBERS OF REPLACEMENT TO INCLUDE START-UP, BREAK-IN, AND PRINC SHITTOWN, AND EMERCENCY INST	PARTS. ROUTINE AND NORMAL	WH-1 нот	T WATER HE	ATED		HTP COMBI-GAS FIR		•	199, 95.7 AFUE,
O THE CONTRACT DOCUMENTS. SUCH S INFLICTING REQUIREMENTS: WHERE COMI TABLISH DIFFERENT OR CONFLICTING RE	PLIANCE WITH TW	O OR MORE STANDARDS IS SF	PECIFIED, AND THE STANDARDS	WINTER OPERATING INST 7. MAINTENANCE PROCE	OPERATING INSTRUCTIONS; REGULATION, CONTROL, STOPPING, SHUTDOWN, AND EMERGENCY INSTRUCTIONS; AND SUMMER AND WINTER OPERATING INSTRUCTIONS. 7. MAINTENANCE PROCEDURES FOR ROUTINE PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING; DISASSEMBLY, REPAIR, AND					AS	SHOWN	120V/1ø, 4.8 GPM			
AT ARE DIFFERENT, BUT APPARENTLY E	QUAL, AND UNCE	RTAINTIES TO THE ARCHITECT F	FOR A DECISION BEFORE PROCEEDING.	REASSEMBLY; ALIGNING AND ADJUSTING INSTRUCTIONS. 8. SERVICING INSTRUCTIONS AND LUBRICATION CHARTS AND SCHEDULES. 1.7 REGULATIONS AND PERMITS PROVIDE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES, AND OBTAIN NECESSARY APPROVALS FROM											
BLICATION DATES: WHERE THE DATE OF INDARD IN EFFECT AS OF DATE OF CO	NTRACT DOCUME	ENTS.		AUTHORITIES HAVING JU PAY FOR AND OBTAIN A	RISDICTION. LL REQUIRED PERMITS & SCHED	ule inspections in a timely manner	AS TO NOT DELAY THE								
BREVIATIONS AND NAMES: TRADE ASSOC E FOLLOWING ACRONYMS OR ABBREVIA SOCIATED NAMES. NAMES AND ADDRESS ACCURATE AND UP TO DATE AS OF D	TIONS AS REFER ES ARE SUBJECT	ENCED IN CONTRACT DOCUMENT TO CHANGE AND ARE BELIEVE	ITS ARE DEFINED TO MEAN THE	PRESSURE HYDRANTS, [		BUT NOT LIMITED TO ENTERING MANHOLES C. PRIOR TO COMMENCE OF WORK.	, USE OF WAIEK FROM LOW	FIRE S	AFE	THRO	UGH W	100D FL	_OORS		
a — American gas association 51 — American National Standards I	NSTITUTE	· · · · · · · · · · · · · · · · · · ·		PART 2. – PRODUCTS 2.1 GENERAL PRODUCT	REQUIREMENTS			TYPE SIZE	E HILT		MATERIAL		RATING BOTTO	м тор	CHASE WALL
<ul> <li>AIR CONDITIONING AND REFRIGERAT IRAE</li> <li>AMERICAN SOCIETY OF HEATING CONDITIONING ENGINEERS</li> </ul>	, REFRIGERATING	AND AIR		ALL EQUIPMENT AND MATERIALS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW, OF CURRENT PRODUCTION, FIRST QUALITY AND OF THE BEST OF EACH CLASS SPECIFIED. MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE DELIVERED TO JOBSITE WITH FACTORY PACKAGING BEARING MANUFACTURER'S NAME OR LABEL, AND UNION LABEL WHENEVER PRACTICAL.				STEEL/CAST COPPER/EMT MAX STEEL/CAST MAX 6	~ <b>"</b>		INTUMESCENT SE		2HRS FIRE ST		REQUIRED
<ul> <li>E – AMERICAN SOCIETY OF MECHANIC</li> <li>E – AMERICAN SOCIETY OF SANITARY</li> <li>M – AMERICAN SOCIETY FOR TESTING</li> <li>AMERICAN WELDING SOCIETY</li> </ul>	ENGINEERING			PART 3 EXECUTION		we on block and onion bable militi		4" EMT/ 2" FLEX – STEEL/CAST COPPER/EMT MAX	F5-		INTUMESCENT SE	EALANT       2HRS       FIRE       STOP       FIRE       STOP       NOT       REQUIRED         1HRS       FIRE       STOP       FIRE       STOP       REQUIRED			
A – AMERICAN WELDING SOCIETT IA – AMERICAN WATER WORKS ASSOCI PI – CAST IRON SOIL PIPE INSTITUTE A NATIONAL ELECTRIC CODE	ATION					VARIOUS ELEMENTS OF PLUMBING SYS	TEMS, MATERIALS, AND	PEX MAX		645 I	INTUMESCENT ST	TRIP W/COLLAR	1HRS BOTH SI	DES BOTH SIDES	NOT REQUIRED
<ul> <li>A – NATIONAL FIRE PROTECTION ASSC</li> <li>– NATIONAL SANITATION FOUNDATION</li> <li>– PLUMBING AND DRAINAGE INSTITUTE</li> </ul>				1. COORDINATE SYSTEMS 2. VERIFY ALL DIMENSIO	S, EQUIPMENT, AND MATERIALS IN INS BY FIELD MEASUREMENTS.	ISTALLATION WITH OTHER BUILDING CON HER BUILDING COMPONENTS DURING PRO		PVC PIPE MAX			INTUMESCENT SE		1HRS     FIRE     STO       2HRS     FIRE     STO		NOT REQUIRED
<ul> <li>UNDERWRITERS LABORATORIES</li> <li>DEPARTMENT OF TRANSPORTATION</li> <li>ENVIRONMENTAL PROTECTION AGEN</li> </ul>				CONCRETE AND OTHER	TALLATION OF REQUIRED SUPPOF STRUCTURAL COMPONENTS, AS T			PVC PIPE MAX			INTUMESCENT ST		1HRS COLLAR		NOT REQUIRED
a – OCCUPATIONAL SAFETY AND HEAL SUBMITTALS	TH ADMINISTRATIO	DN		SYSTEMS AND COMPONE 6. INSTALL EQUIPMENT	NTS, WHERE INSTALLED EXPOSED TO FACILITATE SERVICING, MAINTE	AND PLUMB, PARALLEL AND PERPENDICI IN FINISHED SPACES. NANCE, AND REPAIR OR REPLACEMENT ASE OF DISCONNECTING, WITH MINIMUM (	OF EQUIPMENT COMPONENTS.	REFRIGERANT – 4" DUCT MAX	4" FS-		INTUMESCENT SE		1HRS FIRE STO		NOT REQUIRED
RIOR TO THE PERFORMANCE OF ANY WORK OR INSTALLATION OF ANY MATERIALS, OBTAIN APPROVAL FROM THE ARCHITECT Y SUBMITTING SHOP DRAWINGS AND DATA SHEETS. UBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES WILL BE ACCEPTED ONLY WHEN SUBMITTED BY THE GENERAL CONTRACTOR. DATA SUBMITTED FROM SUBCONTRACTORS AND MATERIAL SUPPLIERS DIRECTLY TO THE ARCHITECT WILL NOT BE ROCESSED. CERTIFIED DRAWINGS AND CATALOG DATA SHEETS SHALL SHOW: . SPECIFICALLY WHAT ITEMS AND FEATURES ARE TO BE PROVIDED.		OTHER INSTALLATIONS. 7. PROVIDE ACCESS PA	NELS OR DOORS WHERE UNITS A	ARE CONCEALED BEHIND FINISHED SURF	ACES.	INSULATED COPPER/STEEL MAX			INTUMESCENT SE		1HRS FIRE STO		NOT REQUIRED		
		INSTRUCTIONS AND REC DOCUMENTS. 9. INSPECT MATERIALS	OMMENDATIONS ARE MORE EXPLIC	CIT OR STRINGENT THAN REQUIREMENTS ( N DELIVERY AND AGAIN PRIOR TO INSTAL	CONTAINED IN CONTRACT	CABLES MAX	2" FS-	ONE I	INTUMESCENT SE	EALANT –	1HRS FIRE ST	OP FIRE STOP	NOT REQUIRED		
APPLICABLE SPECIFICATION SECTION NU PRINCIPAL DIMENSIONS AND DETAILS O WEIGHTS: INFORMATION REQUIRED FOR	MBER AND EQUI	PMENT TAG NUMBER.		DEFECTIVE ITEMS. 3.2 FINAL INSPECTION PRIOR TO FINAL ACCEPT	ance all systems shall be (	OPERATED TO TEST PERFORMANCE TO T	HE SATISFACTION OF THE								
5. SIZES AND LOCATIONS OF PIPING AND CONNECTIONS. 6. PERFORMANCE DATA CERTIFIED BY THE MANUFACTURER. 7. SUBMIT SCHEDULE OF PROPOSED PIPING, VALVES, SPECIALTIES, ETC.			ARCHITECT. 1. WATER SHALL CIRCUL	ATE THROUGHOUT SYSTEMS WITH	IOUT NOISE, WATER HAMMER, LEAKS, TR HOUT EXCESSIVE NOISE OR VIBRATION.				$\mathbf{F}$ $\mathbf{T}\mathbf{F}$		JMP SCI	TEDITE	۱		
B. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SEPERATLY IDENTIFIED.			FREELY, WITHOUT EXCESSIVE NO	NISE, LEAKS OR STOPPAGES.	ARCHITECT.			Гого 1				1			
UMBING SUBMITTALS SHALL BE PROVIDE PIPING AND FITTING MATERIALS. PLUMBING VALVES AND SPECIALTIES.		LOWING ITEMS:		3.3 CLEANING OF SYSTE	MS AND PREMISES				<b>I</b>						
PIPING HANGER AND ATTACHMENT ASSE PIPING INSULATION. ALL SCHEDULED PLUMBING FIXTURES, UTILITY CONNECTION DETAILS REQUIRED	DRAINS, AND CLE			ALL EQUIPMENT AND FIXTURES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS AT THE COMPLETION OF THE PROJECT AND PRIOR TO ACCEPTANCE BY THE OWNER. 3.4 PROTECTION			OMPLETION OF THE		EP-1		PROVIDE SIMPLEX SEWAGE EJECTOR SYSTEM. PUMPS SHALL BE ZOELLER N274, 20 GPM @ 20 FT HEAD, 1 HP, 208V/10, POWER CORD,18"0 x 30" DEEP POLYPROPYLENE BASIN (3"INLET, (2)2"DISCHARGE, 2"VENT). PROVIDE WITH SIMPLEX PUMP CONTROL WITH NEMA 4X ENCLOSURE, PUMP ALTERNATOR, TWO SENSORS AND ONE				
PROVAL OF SHOP DRAWINGS DOES NOT ELD MEASUREMENTS. IN CASES WHERE I	RELEASE RESPO NTERFERENCES E	DNSIBILITY OF COORDINATING HIS BECOME APPARENT, NOTIFY ARC	CHITECT SO THAT SUCH	GUARDS, BARRICADES, L	GUARDS, BARRICADES, LIGHTS, SERVICES, ETC., NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY SHALL BE FURNISHED AND MAINTAINED.			EJECTOR PUMP							
RFERENCES MAY BE RESOLVED PRIOR HT HAVE TO BE MOVED OR REPLACED CATED ON AN APPROVED SHOP DRAWI COORDINATION	TO PROCEEDING BASED ON A CL	WITH SHOP WORK. NO CLAIM	WILL BE ALLOWED FOR WORK THAT	WHICH ARE DAMAGED O		S, FLOORS, CURBS, AND OTHER STRUCTU ONNECTIONS OR ANY PHASE OF OPERATIONNING AUTHORITIES.					ALARM FLOAT, VISUAL AND AUDIBLE ALARM WITH SILENCE SWITCH.				
ORDINATE WITH THE BUILDING TRADES: STRUCTURAL MEMBERS, PADS, AND BU ICATED ON THE ARCHITECTURAL AND S & ANY CHANGES IN THE ABOVE REQUIR THE DRAWINGS SHOW THE GENERAL AF ENDED TO SHOW EVERY OFFSET AND F	TRUCTURAL PLAN EMENTS AFTER L RANGEMENT, DIR	is are the coordination resi letting and accepting the co lections and sizes of equipm	SPONSIBILITY OF THIS INSTALLER. PAY ONTRACT. MENT, PIPING, ETC. IT IS NOT	REQUIREM 2. COORDINA	ENTS, APPLY TO WORK SPI TE WORK WITH THAT OF O	INCLUDING GENERAL AND SUPPLI ECIFIED ON THESE DRAWINGS. THER TRADES AFFECTING OR AFFE ASSURE THE STEADY PROGRESS O	CTED BY WORK OF THIS S		JOINTS SEEK A TO ENG	, FLOWGUARD P PPROVAL FROM GINEER. ALL PIP	IPING SYSTEM, ARCHITECT AND PING SHALL BE D	BUILDING OWNER I NSULATED AND MAR	REPRESENTATIVE RKED AS HOT WA'	BEFORE SUBMI TER (HW) OR CO	
ERIALS AND PERFORM ALL LABOR NEC ARGE. ALL MEASUREMENTS MUST BE VI EXAMINE THE SITE AND ALL DRAWINGS	ESSARY TO MAKE RIFIED ON THE BEFORE PROCEE	E COMPLETE WORKING SYSTEMS JOBSITE. EDING WITH THE LAYOUT AND IN	S, READY FOR USE, WITHOUT EXTRA	THE CITY	OF BOSTON, MA.	MPLY WITH THE MASSACHUSETTS			13. VALVES	FOR HOT AND	COLD WATER SH	TEEL WITH MALLEAN	. BRONZE BODY	AND TRIM, NON	-RISING STEM, 200
	TION OF PARTS	WITH OTHER WORK. ALL SYSTEM	WORK WILL BE INSTALLED IN PROPER MS SHALL BE INSTALLED TO PROVIDE	FOR CONN EXTEND A	IECTION TO EVERY FIXTURI ND CONNECT TO THE EXTE	SANITARY DRAINAGE AND VENT S E OR PIECE OF EQUIPMENT REQUI ERIOR SANITARY SYSTEM AS INDIC	RING DRAINAGE. THE NEW ATED.	BUILDING V WORK SHALL	PSIG, S PLUG 7	SOLDER END, SI TYPE, WITH SQU	MILAR TO JENKIN JARE KEY AND TH	NS 1240 OR APPRO HREADED ENDS.	VED EQUAL. VAL	VES FOR GAS S	HALL BE IRON BODY, APPLIED FIBERGLASS ( E COVERERD WITH PRI
RECORD DOCUMENTS		וייסט איז	WINCS AND SHOD DRAWINGS MADY	CONNECTI WORK SHA	NG TO ALL FIXTURES AND LL EXTEND AND CONNECT	HOT WATER AND COLD WATER SYS EQUIPMENT REQUIRING HOT AND/ TO THE EXTERIOR COLD WATER S ATER HEATER WHERE INDICATED.	OR COLD WATER. THE CO	LD WATER SYSTEM	FIBERG INSULA	LASS INSERTS A TION SHALL BE	AND FITTED WITH FIBERGLASS 25	ELF-SEALING LAP. I MOULDED PVC CO ASJ OR EQUAL, AN HE AUL NON-COMB	VERS, SECURED V D SHALL BE INST	TITH GLASS FAE	RIC TAPE WITH MASTI
ORD DRAWINGS: MAINTAIN A CLEAN, U SET TO SHOW THE ACTUAL INSTALLAT GINALLY SHOWN. MARK WHICHEVER DR. P DRAWINGS ARE USED, RECORD A C	ION WHERE THE WING IS MOST ( ROSS-REFERENCI	INSTALLATION VARIES SUBSTANT CAPABLE OF SHOWING CONDITION E AT THE CORRESPONDING LOC	ITIALLY FROM THE WORK AS DNS FULLY AND ACCURATELY; WHERE CATION ON THE CONTRACT DRAWINGS.		G GAS. THE GAS SYSTEM	GAS SYSTEM THROUGHOUT THE B WORK SHALL EXTEND AND CONNEG		UPPLIED BY	TO BE			R REPRESENTATIVE DDEL 25 FREEZE RE			WAL TO ENGINEER) M BREAKER.
E PARTICULAR ATTENTION TO CONCEALE WARK INFORMATION THAT IS IMPORTANT WINGS.	D ELEMENTS THAT TO THE OWNER	AT WOULD BE DIFFICULT TO ME , BUT WAS NOT SHOWN ON C	EASURE AND RECORD LATER. CONTRACT DRAWINGS OR SHOP	SEVERALL	TO OWNER A WRITTEN GUA Y, AGAINST ANY DEFECTS I : FROM DATE OF SUBSTANT	RANTEE OF THE GENERAL CONTRA IN MATERIALS AND WORKMANSHIP FIAL COMPLETION.	ACTOR AND THIS SUBCONTR IN WORK OF THIS SECTION	ACTOR JOINTLY AND	(PROVI	DE EVERY 150', HEATERS – FU	, WHERE DIRECTE	D BY BUILDING OW ALL WATER HEATER	NER) S WHERE INDICAT	'ED.	
ORGANIZE RECORD DRAWING SHEETS IN ITABLE TITLES, DATES AND OTHER IDEN MAINS AND BRANCHES OF PIPING SYST IIONS LOCATED, AND WITH ITEMS REQUII	TIFICATION ON TH EMS, WITH VALVE	HE COVER OF EACH SET. ES AND CONTROL DEVICES LOO	CATED AND NUMBERED, CONCEALED	9. FURNISH	AND INSTALL ALL PIPE OPI	NG FIXTURES AND VALVES SPECIF ENINGS, PIPE HANGERS AND HANG	ER RODS, AND FIXTURE SU	UPPORTS.	18. TEST A	LL NEW PLUMB	ING WORK IN AC	CORDANCE WITH PL	UMBING CODE RE	QUIREMENTS.	WAL TO ENGINEER)
INS LOCATED, AND WITH TIEMS REQUI IKS, ETC.). EQUIPMENT LOCATIONS (EXPOSED AND APPROVED SUBSTITUTIONS, CONTRACT I INCLUDE ALL "CORRECTED FOR RECOR	CONCEALED), DIN NODIFICATIONS, A	MENSIONED FROM AT LEAST TWO ND ACTUAL EQUIPMENT AND N	O PROMINENT BUILDING LINES. MATERIALS INSTALLED.	WATER TI 10. BURIED S ABOVE GF PROVIDE	GHT. TORM, SANITARY AND VENT OUND SANITARY AND VENT	D BUILDING STRUCTURE. SEAL AI PIPING SHALL BE CAST IRON PII PIPING SHALL BE CAST IRON PII METAL SLEEVES AS REQUIRED BY 5 AND FLOORS.	PE AND DRAINAGE FITTINGS PE AND DRAINAGE FITTINGS	5. 5/PVC SCHED. 40 SOLID.			ON ALL TRAPS L JECT TO FREEZIN	OCATED IN GARAGE	:, COLD WATER P	PING LOCATED	IN GARAGE,
						GENERAL NOTES									NTS

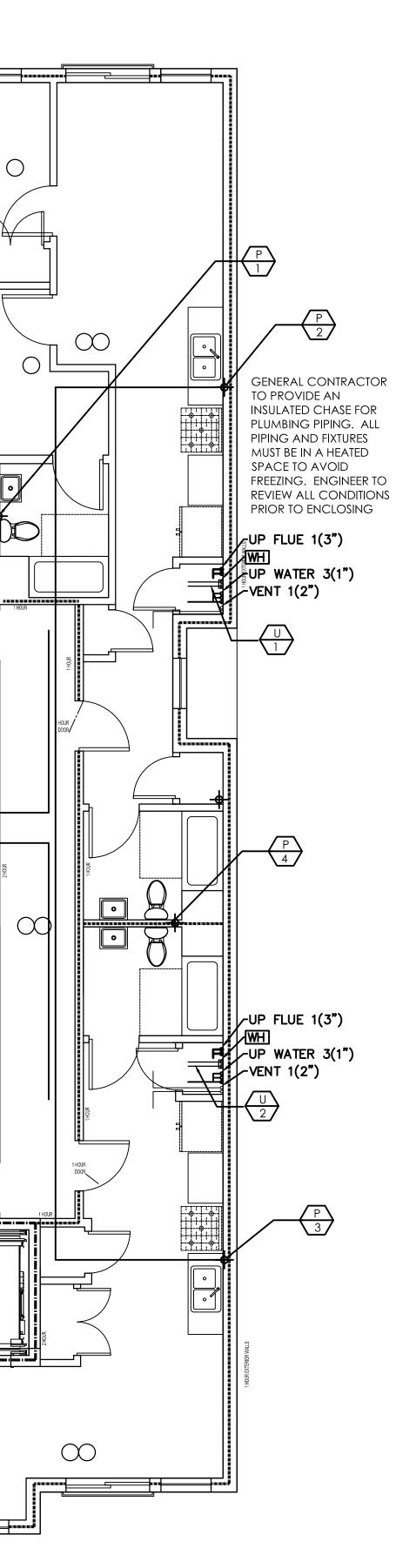
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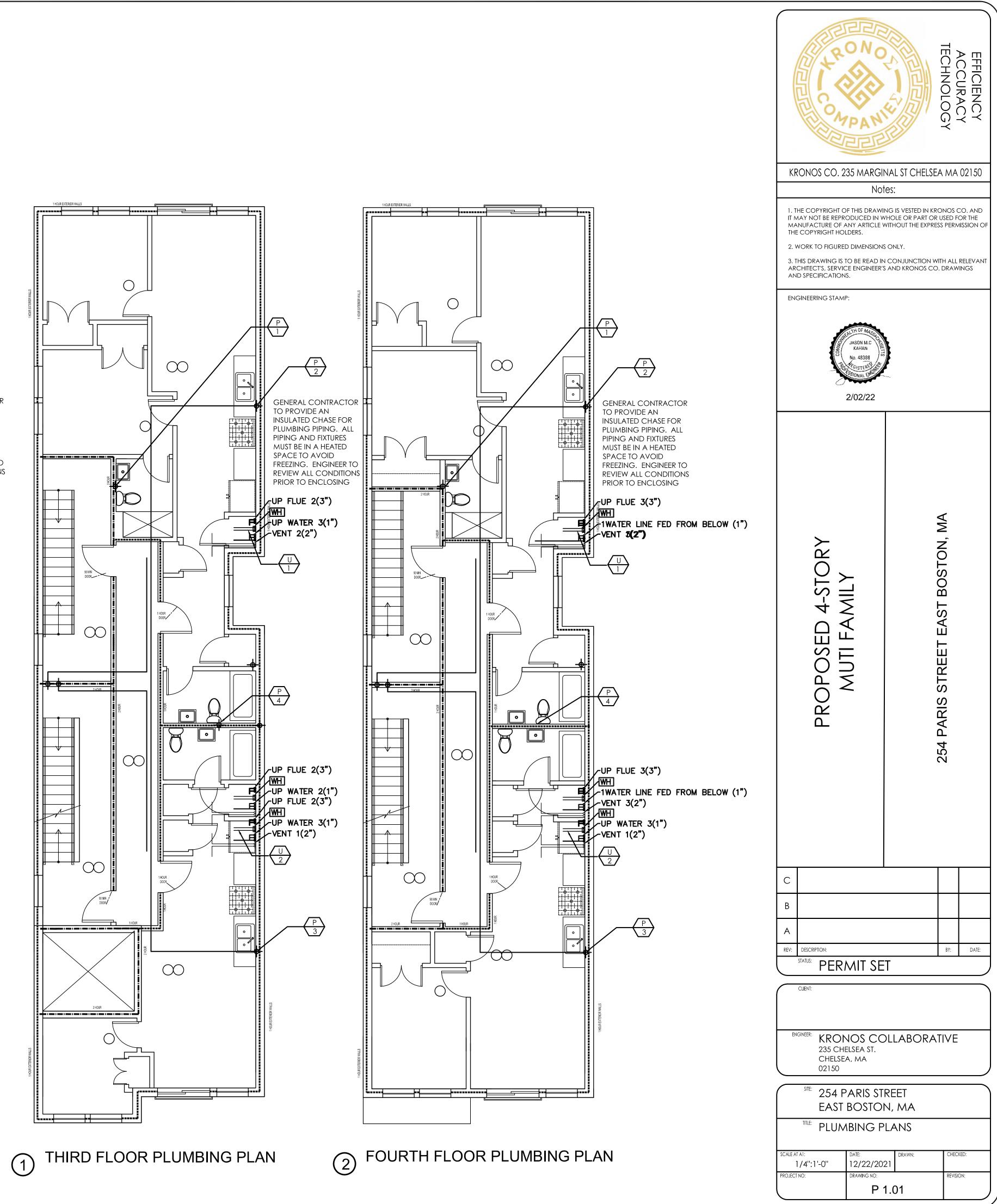


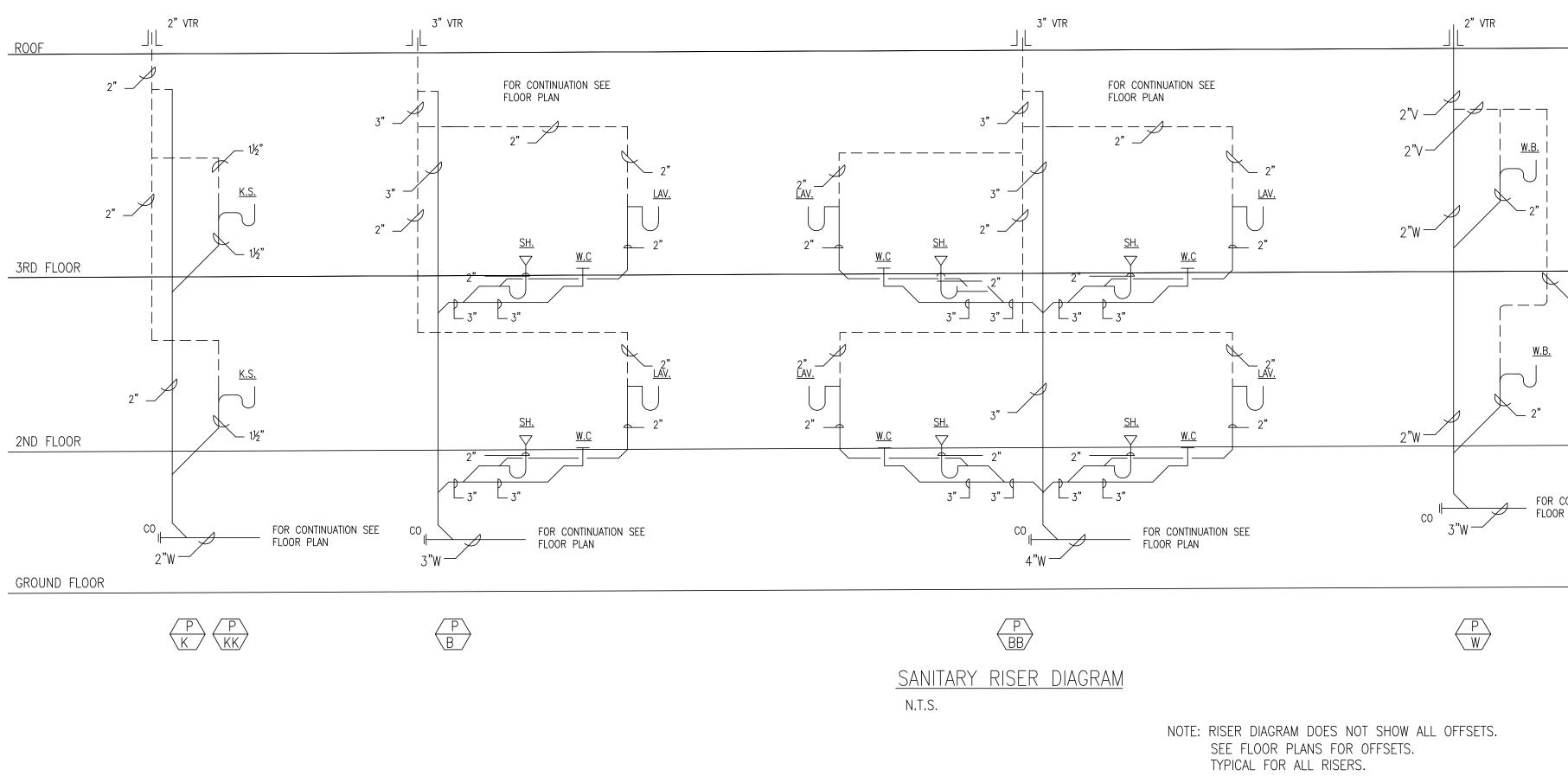


# SECOND FLOOR PLUMBING PLAN

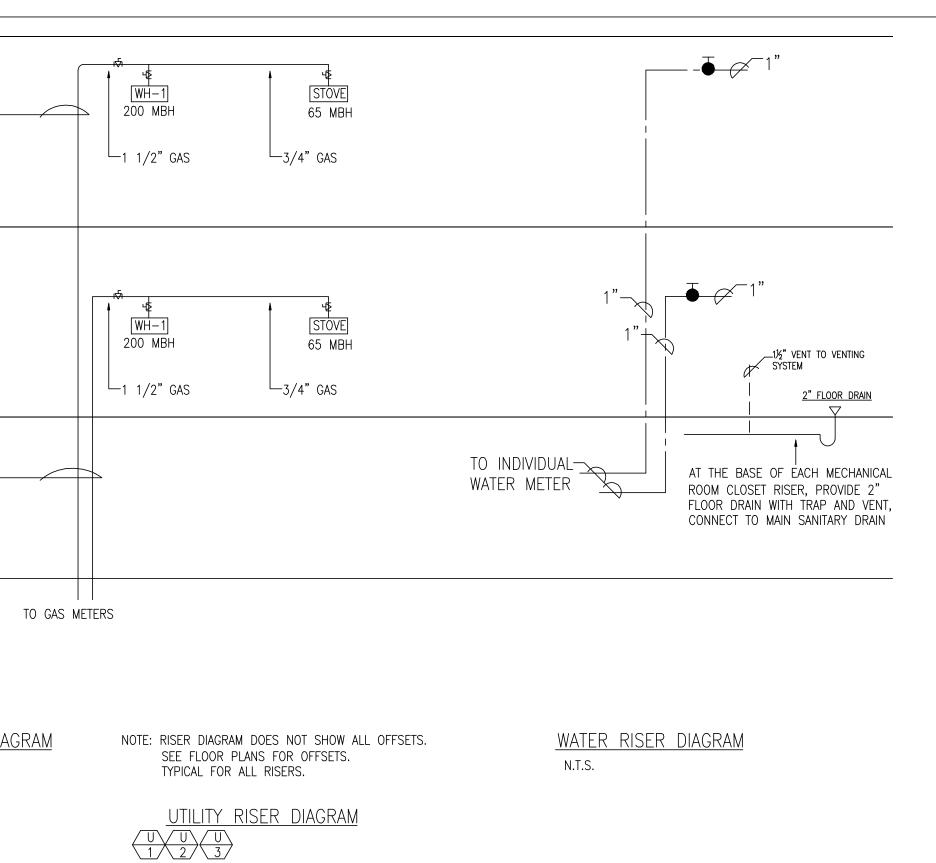


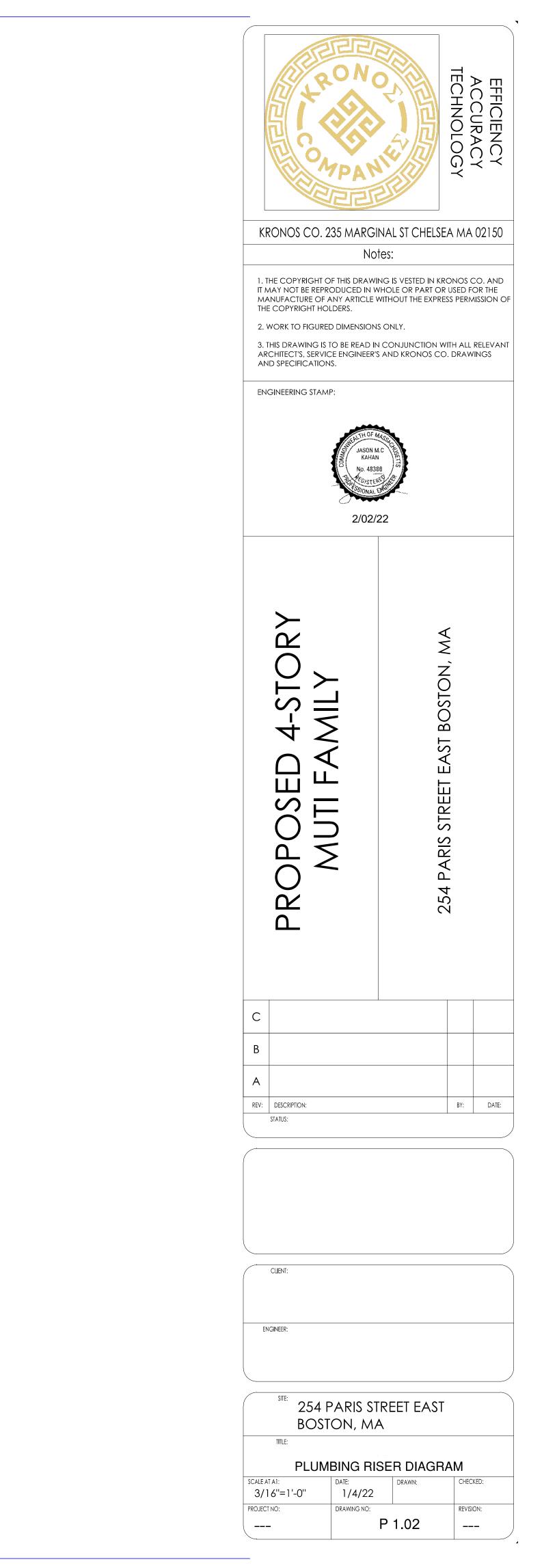






ROOF	
	1 1/0" 040
	1 1/2" GAS —
3 <u>RD_FLOOR</u>	
2ND FLOOR	
	(2)1.5" GAS
GROUND FLOOR	
	<u>GAS RISER DIA(</u> n.t.s.

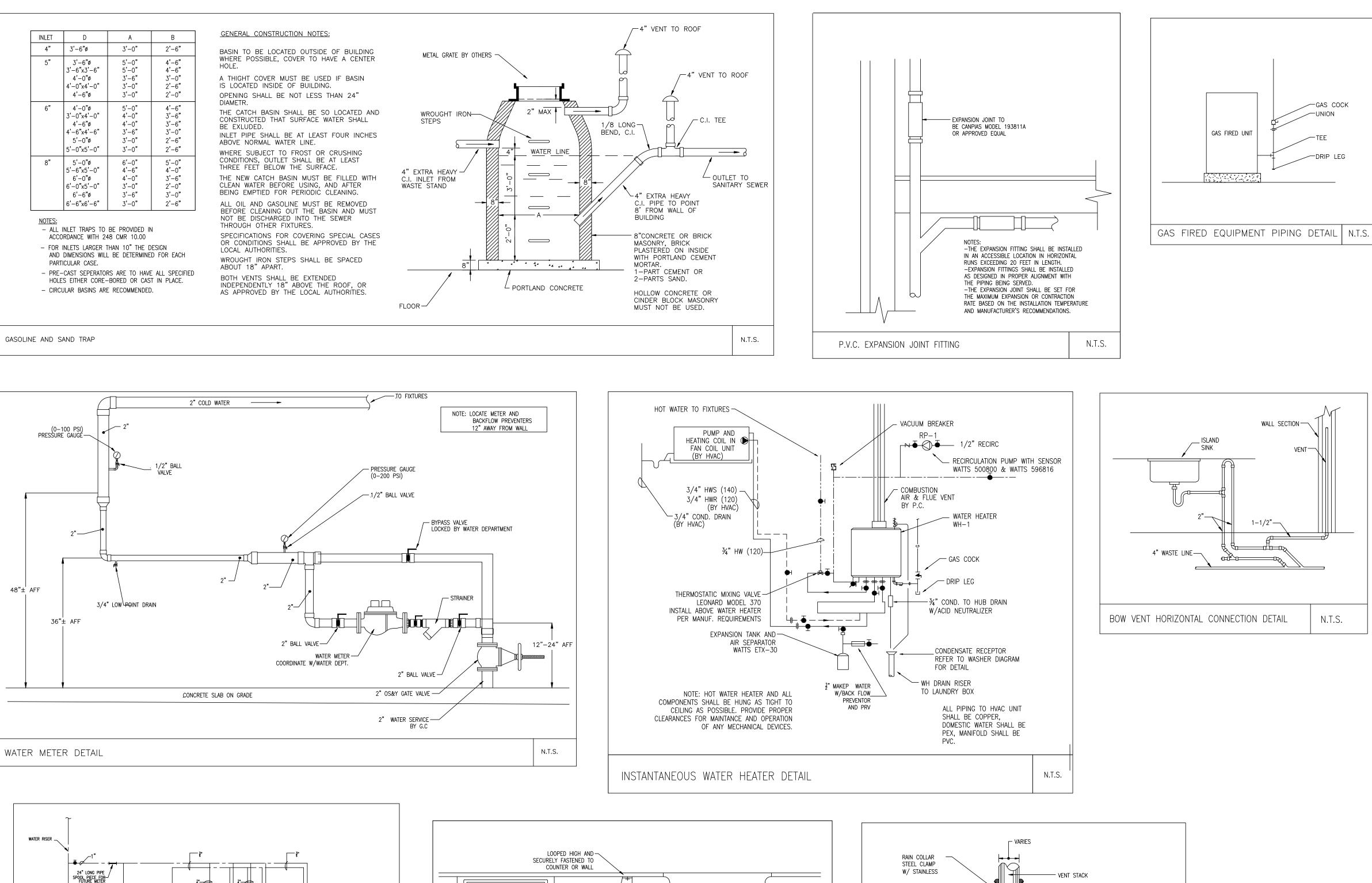




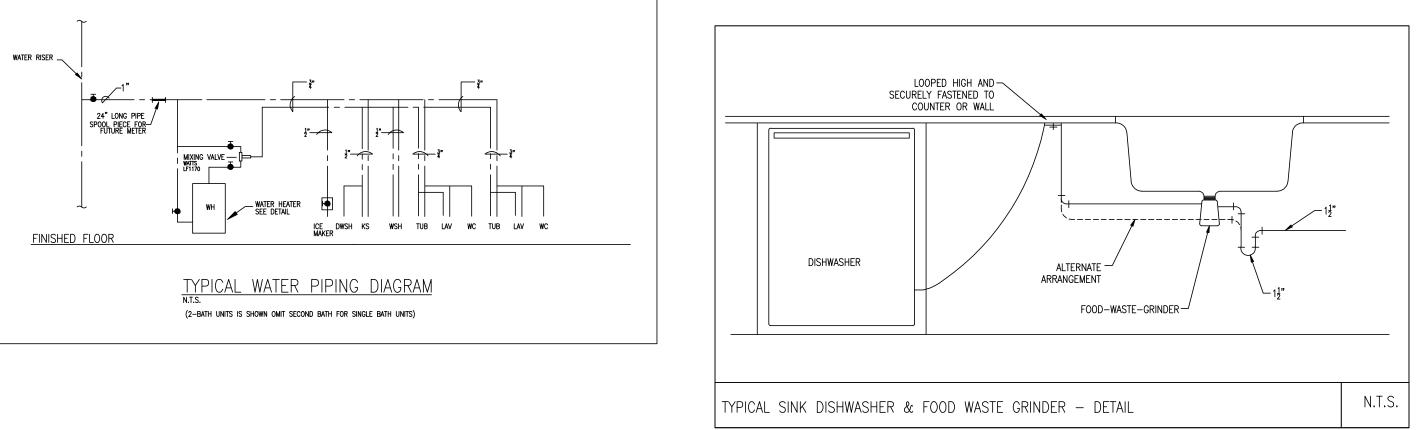
∑ 2" V

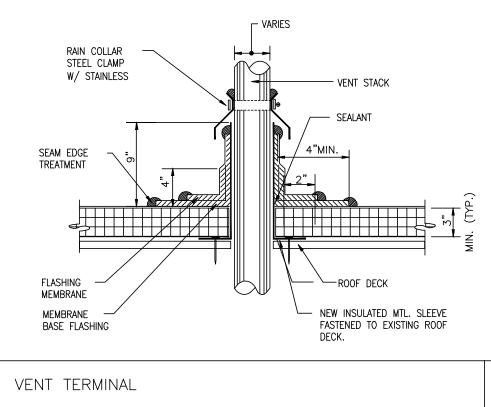
FOR CONTINUATION SEE FLOOR PLAN

INLET 4"	D 3'-6"ø	A 3'-0"	B 2'-6"	GENERAL CONSTRUCTION NOTES: BASIN TO BE LOCATED OUTSIDE OF BUILDING	METAL GR/
5"	3'-6"ø 3'-6"x3'-6" 4'-0"ø 4'-0"x4'-0" 4'-6"ø	5'-0" 5'-0" 3'-6" 3'-0" 3'-0"	4'-6" 4'-6" 3'-0" 2'-6" 2'-0"	WHERE POSSIBLE, COVER TO HAVE A CENTER HOLE. A THIGHT COVER MUST BE USED IF BASIN IS LOCATED INSIDE OF BUILDING. OPENING SHALL BE NOT LESS THAN 24" DIAMETR.	METAL GA
6"	4'-0"ø 3'-0"x4'-0" 4'-6"ø 4'-6"x4'-6" 5'-0"ø 5'-0"x5'-0"	5'-0" 4'-0" 3'-6" 3'-0" 3'-0"	4'-6" 3'-6" 3'-6" 2'-6" 2'-6"	THE CATCH BASIN SHALL BE SO LOCATED AND CONSTRUCTED THAT SURFACE WATER SHALL BE EXLUDED. INLET PIPE SHALL BE AT LEAST FOUR INCHES ABOVE NORMAL WATER LINE. WHERE SUBJECT TO FROST OR CRUSHING	WROUGH STEPS
8"	5'-0"ø 5'-6"x5'-0" 6'-0"ø 6'-0"x5'-0" 6'-6"ø 6'-6"x6'-6"	6'-0" 4'-6" 4'-0" 3'-0" 3'-6" 3'-0"	5'-0" 4'-0" 3'-6" 2'-0" 3'-0" 2'-6"	CONDITIONS, OUTLET SHALL BE AT LEAST THREE FEET BELOW THE SURFACE. THE NEW CATCH BASIN MUST BE FILLED WITH CLEAN WATER BEFORE USING, AND AFTER BEING EMPTIED FOR PERIODIC CLEANING. ALL OIL AND GASOLINE MUST BE REMOVED BEFORE CLEANING, OUT THE BASIN AND MUST	4" EXTRA HEA C.I. INLET FRO WASTE STAND
ACC FOR ANI PAF - PRE HOI	INLET TRAPS TO CORDANCE WITH 24 INLETS LARGER T DIMENSIONS WILL RTICULAR CASE. E-CAST SEPERATOR LES EITHER CORE- CULAR BASINS ARE	B CMR 10.00 HAN 10" THE I BE DETERMINE RS ARE TO HAV BORED OR CAS	DESIGN ED FOR EACH E ALL SPECIFIED ST IN PLACE.	BEFORE CLEANING OUT THE BASIN AND MUST NOT BE DISCHARGED INTO THE SEWER THROUGH OTHER FIXTURES. SPECIFICATIONS FOR COVERING SPECIAL CASES OR CONDITIONS SHALL BE APPROVED BY THE LOCAL AUTHORITIES. WROUGHT IRON STEPS SHALL BE SPACED ABOUT 18" APART. BOTH VENTS SHALL BE EXTENDED INDEPENDENTLY 18" ABOVE THE ROOF, OR AS APPROVED BY THE LOCAL AUTHORITIES.	FLOOR-



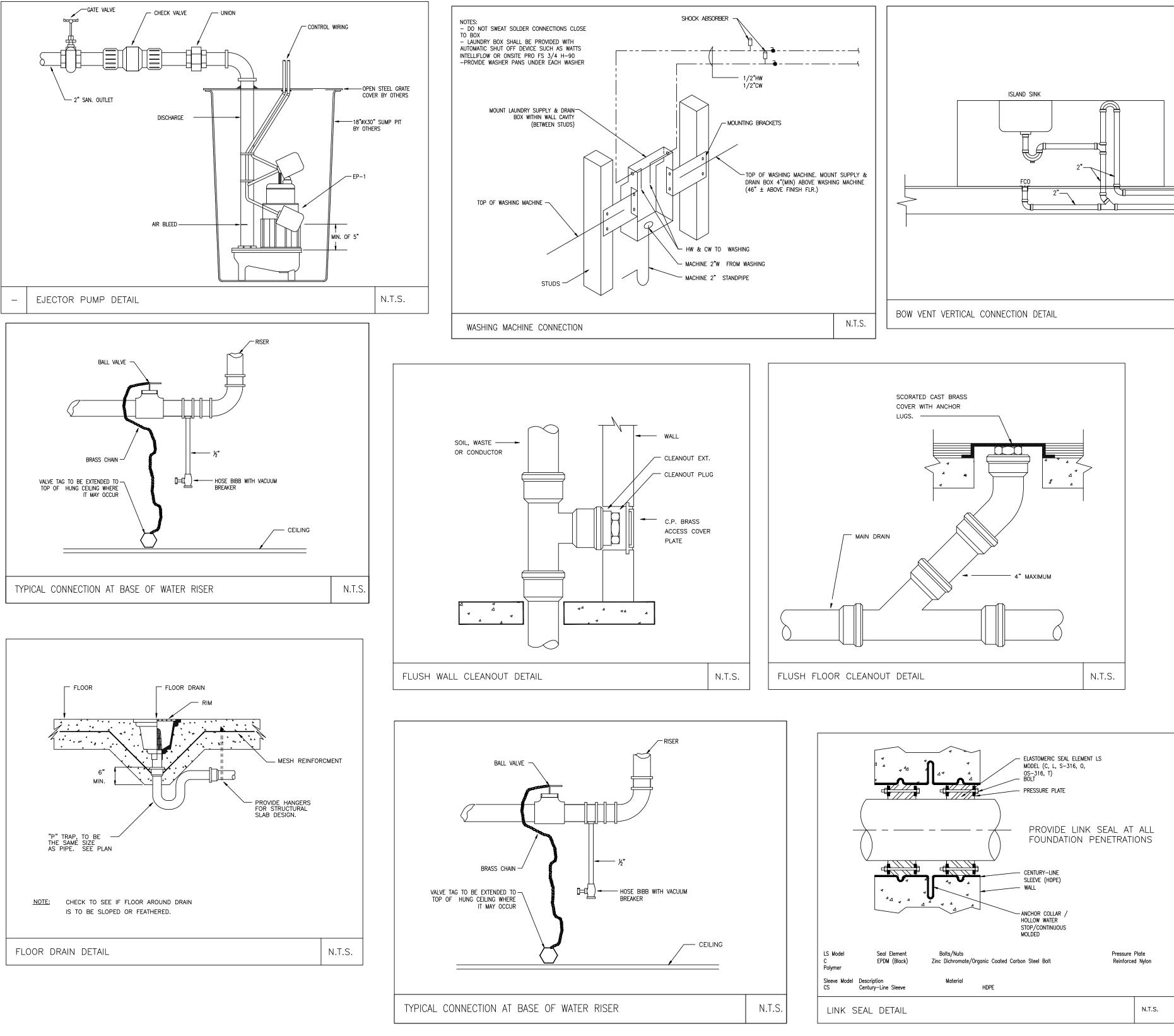


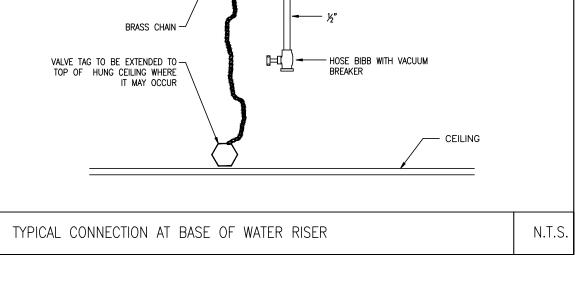


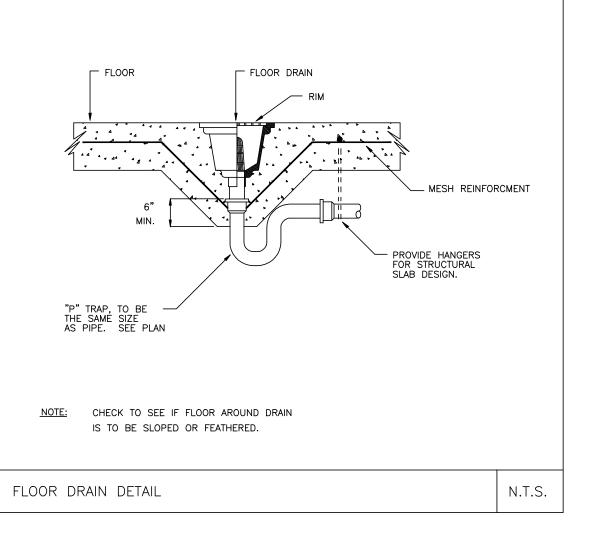


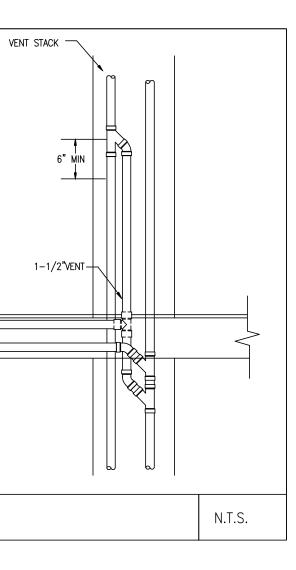


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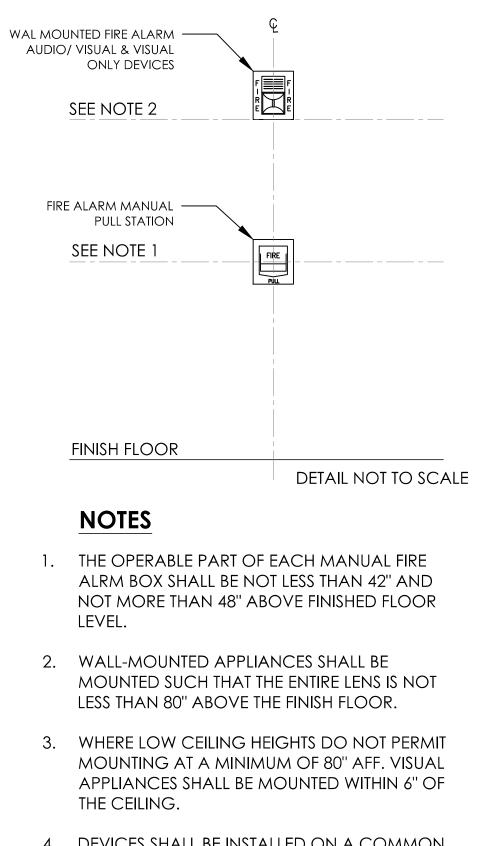




	FIRE ALARM LEGEND
NOTIFICA	TION
Ed _{75cd}	FIRE ALARM SYSTEM ADA TYPE 90db HORN/ STROBE UNIT, SEE MOUNTING DETAIL FOR HEIGHTS. 75cd - INDICATES CANDELA RATING (AS SHOWN ON DRAWINGS)
∑ ^{75cd} E	FIRE ALARM SYSTEM ADA TYPE 15db STROBE ONLY UNIT, SEE MOUNTING DETAIL FOR HEIGHTS. 15cd - INDICATES CANDELA RATING (AS SHOWN ON DRAWINGS)
HEICI 90dB	FIRE ALARM SYSTEM ADA TYPE 90db LOW FREQUENCY (520Hz) TYPE MINI HORN UNIT, SEE MOUNTING DETAIL FOR HEIGHTS.
EOWP	FIRE ALARM SYSTEM WEATHER PROOF SPRINKLER FLOW ALARM BELL. SEE MOUNTING DETAIL FOR HEIGHTS.
INITIATIN	G
F	MANUAL PULL STATION, MOUNTED 48" ABOVE FINISHED FLOOR
\$	CEILING MOUNTED PHOTOELECTRIC, SYSTEM TYPE SMOKE DETECTOR
Ĥ	AUTOMATIC HEAT DETECTOR 135 DEGREES FIXED TEMPERATURE WITH ZONE ADDRESSABLE MODULE.
Ô	CEILING MOUNTED PHOTOELECTRIC, SYSTEM CARBON MONOXIDE (CO) DETECTOR.
(S)	LOCAL 120 VOLT, TANDEM WIRED PHOTOELECTRIC SMOKE DETECTOR WITH INTEGRAL BATTERY BACK-UP
SO L	LOCAL 120 VOLT, TANDEM WIRED COMBINATION OF PHOTOELECTRIC SMOKE/CARBON MONOXIDE DETECTOR WITH INTEGRAL BATTERY BACK-UP
Μ	ADDRESSABLE MONITOR MODULE.
EQUIPME	NT
FACP	FIRE ALARM CONTROL PANEL. "FACP"
FAA	FIRE ALARM ANNUNCIATOR. "FAA"
F	FIRE ALARM WEATHERPROOF BEACON - FLASHING TYPE (NOT ROTATING)
	24/IO HOUR BATTERY
CC	IP/CELLULAR COMMUNICATOR
FS	FIRE PROTECTION SYSTEM FLOW SWITCH, FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
TS	FIRE PROTECTION SYSTEM TAMPER SWITCH, FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
WIRING	
	– 2/C#14 POWER LIMITED FIRE ALARM CABLE TYPE "FPLP" (INITIATING)
	- 2/C#14 POWER LIMITED FIRE ALARM CABLE TYPE "FPLP" (NOTIFICATION

# FIRE ALARM DEVICE MOUNTING HEIGHT DETAIL

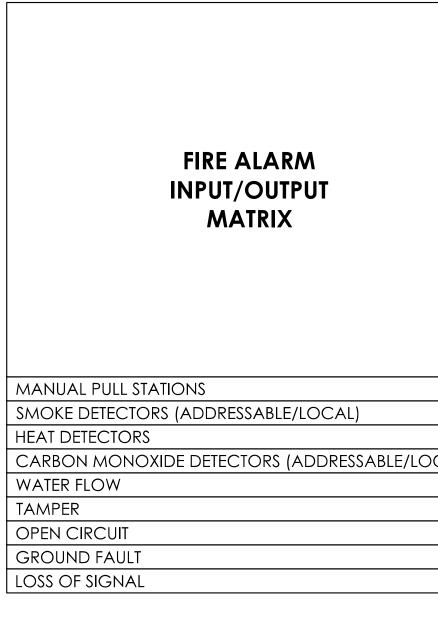
DENOTES WATERPROOF

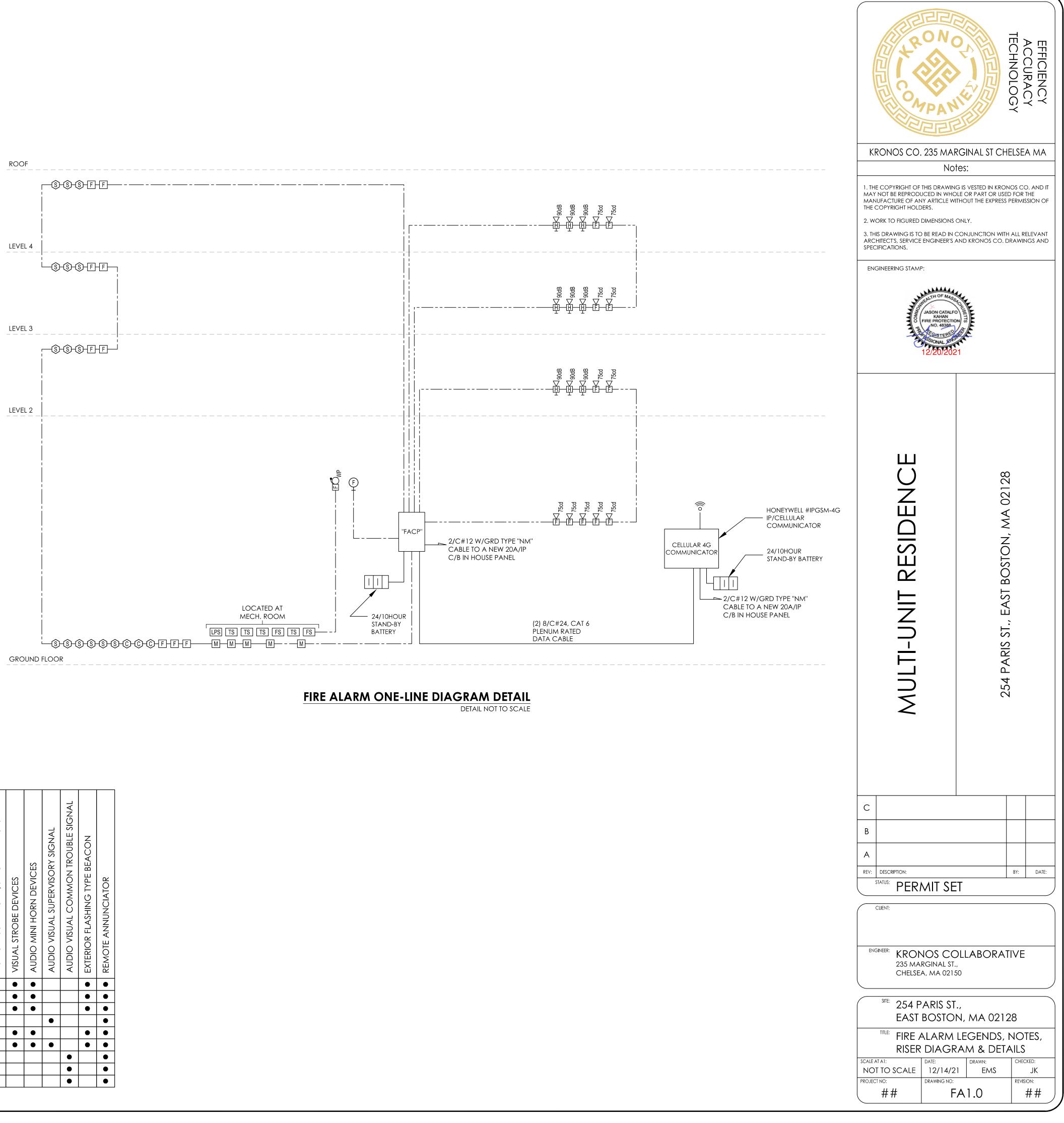


- 4. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHERE EVER POSSIBLE.
- 5. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.

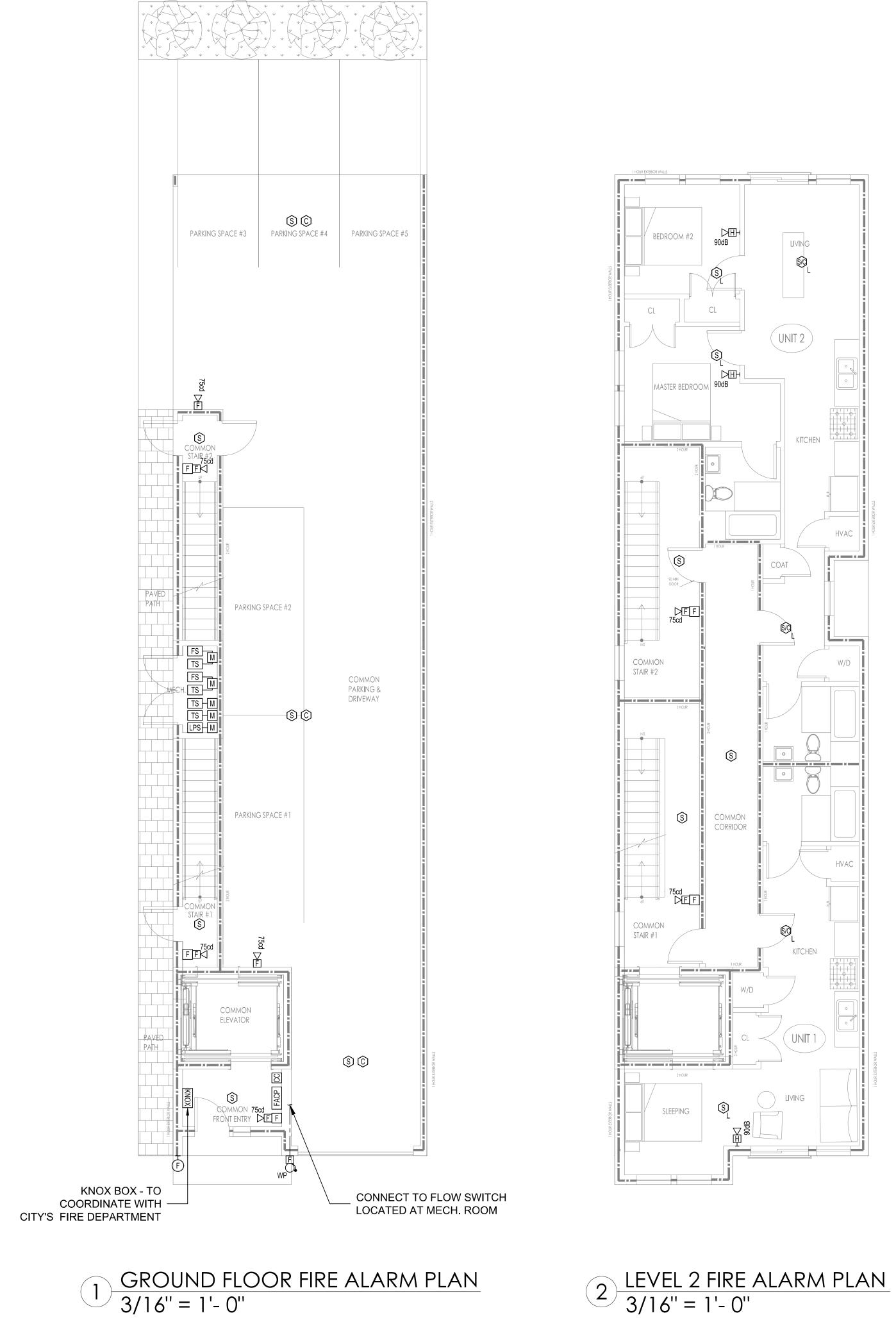
# FIRE ALARM NOTES

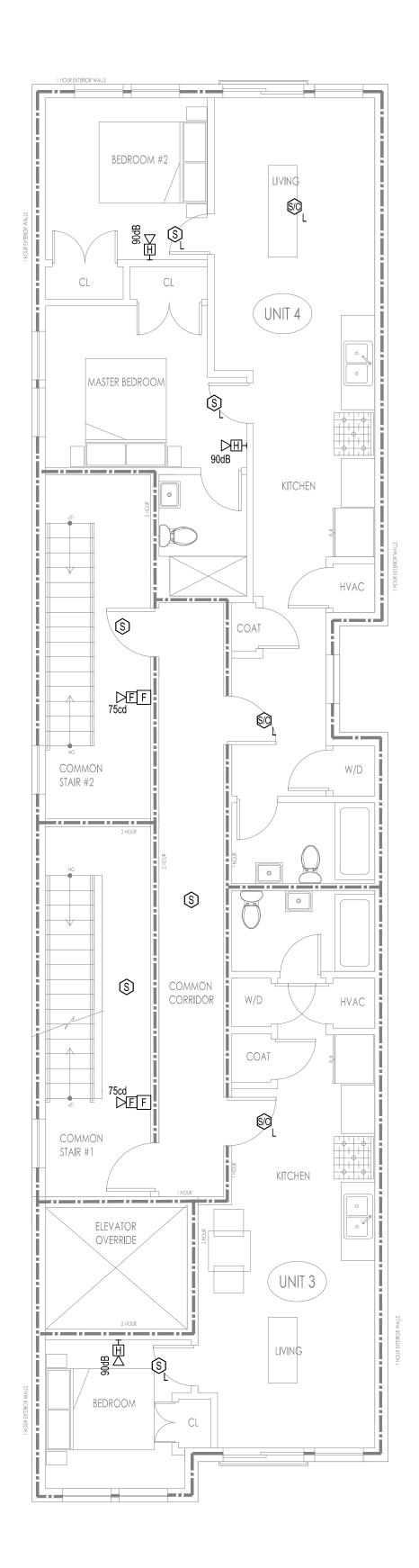
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ADDRESSABLE, NON-CODED, ELECTRONICALLY SUPERVISED MICRO-PROCESSOR BASED, FIRE ALARM SYSTEM AS INDICATED AND AS SPECIFIED, ALL FIRE ALARM CIRCUIT WIRING SHALL BE POWER LIMITED FIRE ALARM CABLE; 2/C#14 FPLP NON-SHIELDED CABLE SHALL BE PROVIDED FOR ALL STROBE (VISUAL) CIRCUITS AND 2/C#14 NON-SHIELDED, TWISTED CABLE FOR SIGNALING LINE CIRCUITS (SLC). ALL SLC AND NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE ARRANGED CLASS "A" WITH A AT LEAST A 12" SEPARATION BETWEEN LEAVING AND RETURN CIRCUITS.
- 2. ELECTRICAL CONTRACTOR SHALL UTILIZE ALARM VERIFICATION AS A STANDARD FEATURE FOR ALL ADDRESSABLE SMOKE DETECTORS.
- 3. THE CONTRACTOR, BEFORE INSTALLATION OR PROCUREMENT OF EQUIPMENT, SHALL SUBMIT SHOP DRAWINGS OF ALL THE SPECIFIED DEVICES, EQUIPMENT AND CABLING BEING SUPPLIED FOR THIS PROJECT, BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS. THE SHOP DRAWING SHALL INCLUDE, AS PART OF THE SUBMITTAL PACKAGE, A ONE LINE DIAGRAM INDICATING HOW THE SYSTEM WILL OPERATE AND LAYOUT DRAWINGS OF ALL FLOORS THAT INDICATE DEVICE LOCATIONS AND ADDRESS NUMBERS.
- 4. ALL PULL AND JUNCTION BOXES AS WELL AS 6" OF ANY CONDUIT ENTERING OR LEAVING ANY PULL OR JUNTION BOX SHALL BE PAINTED RED.
- 5. FIRE ALARM SYSTEM SHALL BE MANUFACTURED BY FIRELITE OR EQUAL.
- 6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A SET OF AS-BUILT DRAWINGS OF THE FIRE ALARM SYSTEM, AS-BUILT DRAWINGS SHALL INDICATE THE LOCATION OF THE CONTROL PANEL, ALL FIRE ALARM DEVICES AND WIRING INSTALLED, AS-BUILT DRAWINGS SHALL BE TURNED OVER TO THE OWNER'S PROJECT REPRESENTATIVE.
- 7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE FIRE ALARM SYSTEM TO THE IP/CELLULAR RADIO TRANSCEIVER THAT WILL TRANSMIT ALARM, TROUBLE, SUPERVISORY SIGNALS TO A U.L. APPROVED CENTRAL STATION MONITORING COMPANY.
- 8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ANNUNCIATOR THAT INDICATES ALL ADDRESSABLE DEVISES TO BE INSTALLED AT THE MAIN ENTRANCE.
- 9. THE FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72. ANY CHANGES TO THE SYSTEM DESIGN SHALL BE PRE-APPROVED BY THE BOSTON FIRE DEPARTMENT AND DESIGNER ENGINEER.
- 10. FIRE ALARM ONE-LINE DIAGRAM IS COMPLEMENTARY TO THE FLOOR PLAN. WHERE A CONFLICT ARISES THE MOST STRINGENT CONDITION SHALL PREVAIL.
- 11. ALL AUDIO VISUAL DEVICES SHALL BE SYNCHRONIZED CODE 3, TEMPORAL PATTERN.
- 12. UPON ACTIVATION OF SYSTEM CARBON MONOXIDE DETECTOR AN ALARM SIGNAL SHALL BE SENT TO A U.L. APPROVED CENTRAL STATION MONITOR COMPANY. RETRANSMISSION SIGNAL SHALL BE SENT TO A BUILDING MAINTENANCE SUPERVISOR TO ALERT OF AN EXCESS CARBON MONOXIDE LEVEL WITHIN THE BUILDING.
- 13. UPON COMPLETION OF THE INSTALLATION, THE FIRE ALARM SYSTEM and all fire alarm components shall be tested in ACCORDANCE WITH NFPA 72.
- 14. A RECORD OF COMPLETION IN ACCORDANCE WITH NFPA 72 VERIFYING THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS SHALL BE PROVIDED.
- 15. ALL SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 36" FROM DOORS TO BATHROOMS WITH SHOWERS/TUBS AND AWAY FROM ANY VENTS/DIRECT AIR FLOW, AIR SUPPLY, DIFFUSER OR RETURN AIR OPENING.
- 16. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THIRD PARTY TESTING AND DESIGN DOCUMENTS FOR A BI-DIRECTIONAL ANTENNA SYSTEM FOR THE BUILDING IN ACCORDANCE WITH CHAPTER 24 OF THE 2010 NFPA 72. RADIO COVERAGE SHALL BE PROVIDED THROUGHOUT THE BUILDING IN ALL CRITICAL AREAS AND GENERAL AREAS AS SPECIFIED IN CHAPTER 24. -95dBm INBOUND AND OUTBOUND SIGNAL STRENGTH SHALL BE PROVIDED THROUGHOUT THE COVERAGE AREAS.
- 17. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE BOSTON FIRE DEPARTMENT REGARDING TESTING FOR A BI-DIRECTIONAL ANTENNA SYSTEM. TESTING SHALL COMMENCE ONCE THE BUILDING IS COMPLETE AND BASED ON TEST RESULTS, A DETERMINATION SHALL BE MADE TO INSTALL THE SYSTEM.



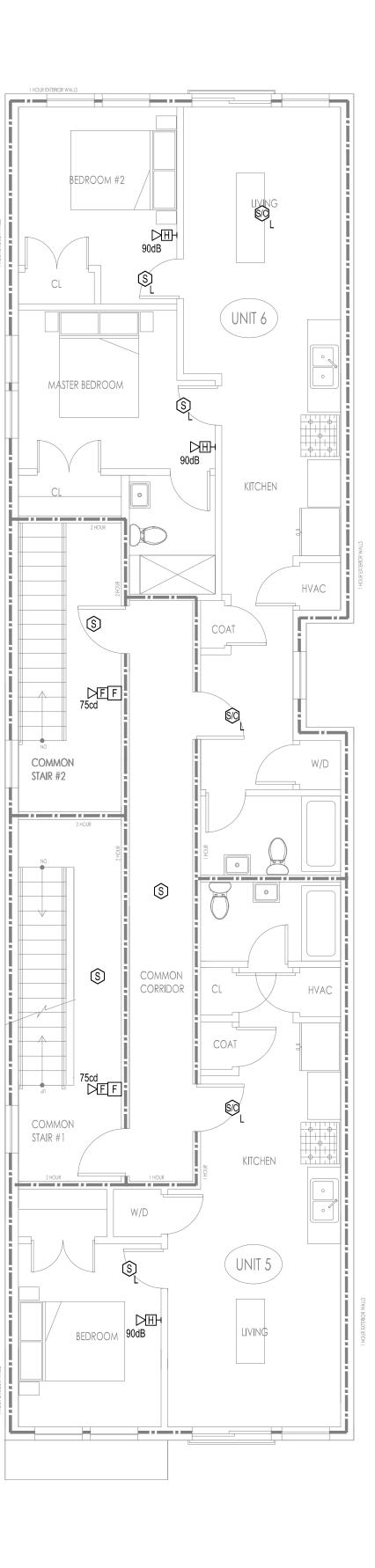


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I       I       I       VISUAL STROBE DEVICES         I       I       I       I       VISUAL STROBE DEVICES         I       I       I       I       I       AUDIO MINI HORN DEVICES         I       I       I       I       AUDIO VISUAL SUPERVISORY SIGNAL         I       I       I       I       AUDIO VISUAL SUPERVISORY SIGNAL         I       I       I       I       AUDIO VISUAL SUPERVISORY SIGNAL         I       I       I       I       AUDIO VISUAL COMMON TROUBLE SIGNAL         I       I       I       I       I       I         I       I       I       I       I       I         I       I       I       I       I       I         I       I       I       I       I       I       I         I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I       I         I       I       I       I       I       I       I       I       I         I       I       I       I       I       I				•	•		•	•	•	AUDIO VISUAL HORN/STROBE DEVICES
Image:				•	•		•	•	•	VISUAL STROBE DEVICES
Image: Section of the state of the stat				•	•		•	•	•	AUDIO MINI HORN DEVICES
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•       •       •       •       •         •       •       •       •       •       •				•	•		•	•	•	EXTERIOR FLASHING TYPE BEACON
	•	•	•	•	•	•	•	•	•	REMOTE ANNUNCIATOR

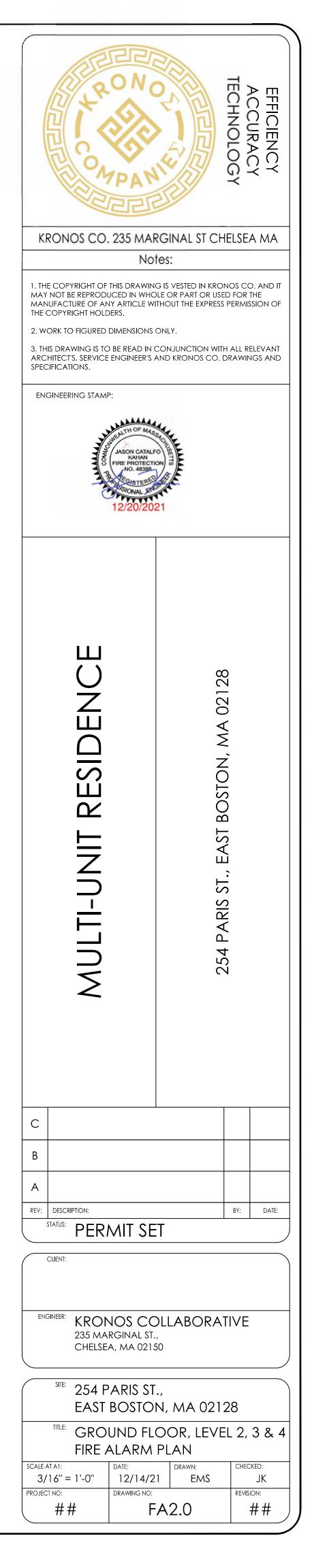


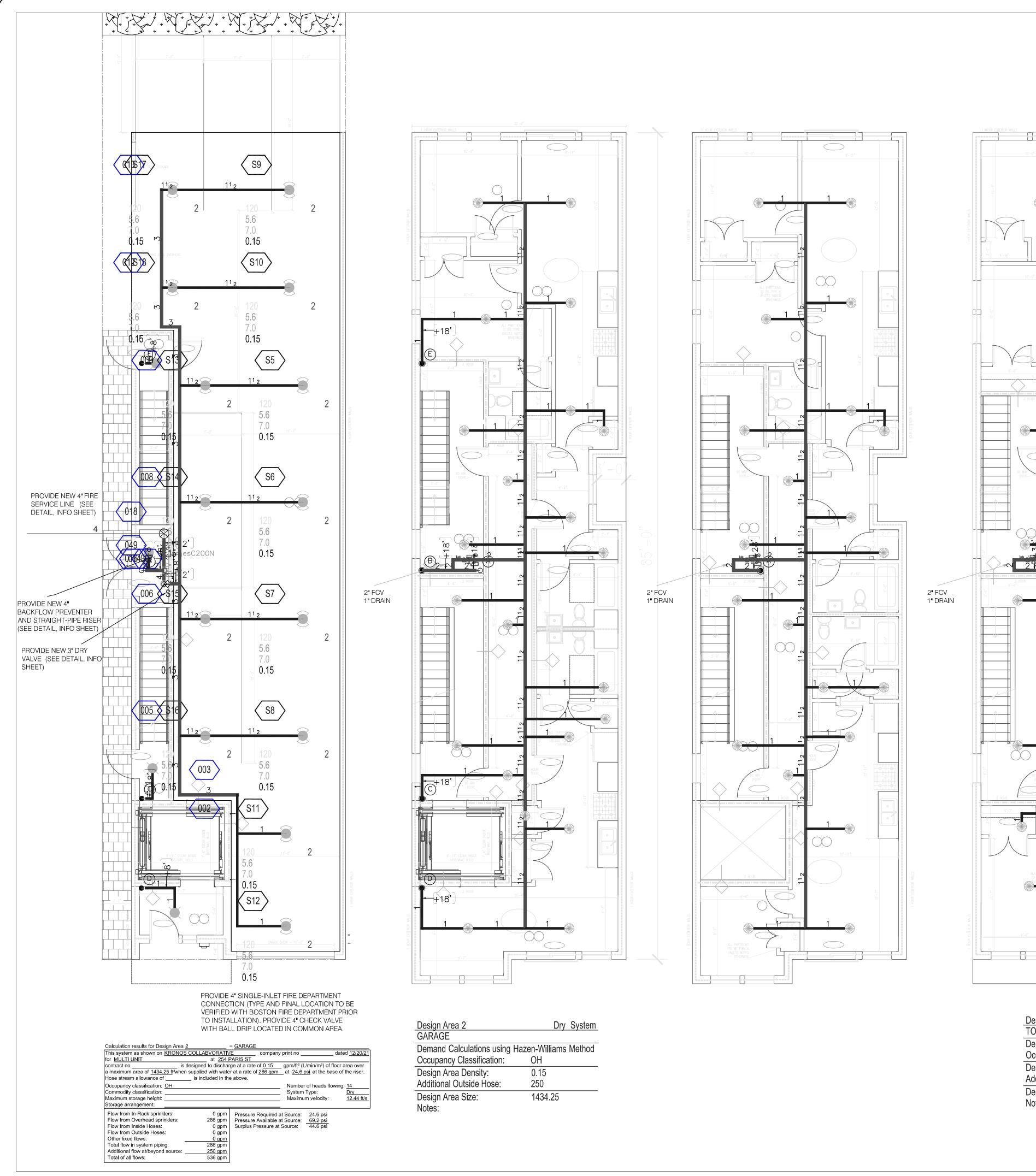






# $4 \frac{\text{LEVEL 4 FIRE ALARM PLAN}}{3/16'' = 1' - 0''}$

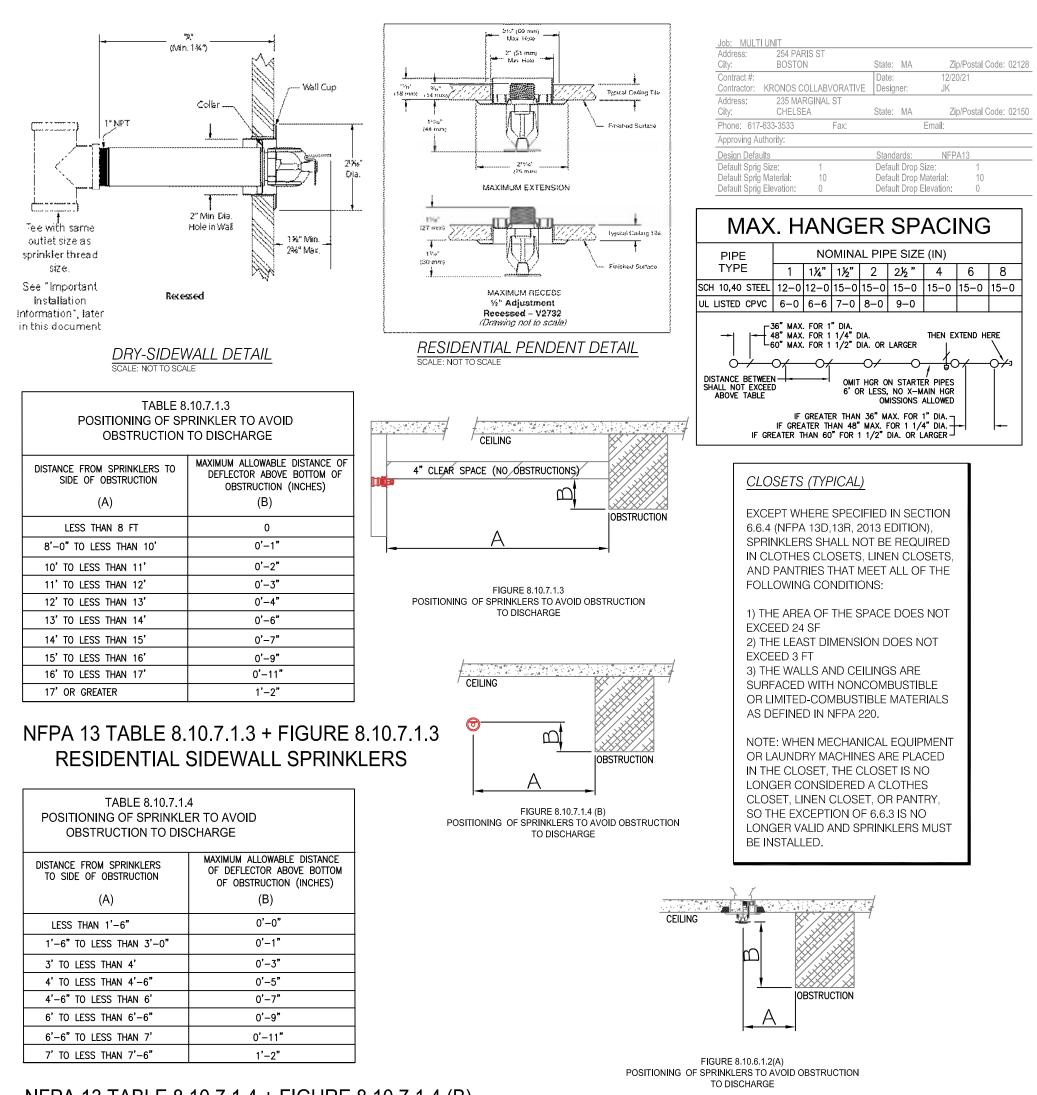




1 HOUR EXTERIOR WALLS				
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10'-0"				/
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Design Area 1	Wet System
TOP FLOOR	
Demand Calculations using	Hazen-Williams Method
Occupancy Classification:	LH
Design Area Density:	0.1
Additional Outside Hose:	100
Design Area Size:	328.65
Notes:	

	KRONOS CO. 235 MARGI Notes	S: AWING IS VESTED IN KRONOS
	CO. AND IT MAY NOT BE REPRO OR USED FOR THE MANUFACTU THE EXPRESS PERMISSION OF T 2. WORK TO FIGURED DIMENSION 3. THIS DRAWING IS TO BE REA RELEVANT ARCHITECT'S, SERVICE ENGINEEF DRAWINGS AND SPECIFICATIONS. ENGINEERING STAMP:	RE OF ANY ARTICLE WITHOUT HE COPYRIGHT HOLDERS. NS ONLY. AD IN CONJUNCTION WITH ALL R'S AND KRONOS CO.
	MULTI UNIT	254 PARIS ST BOSTON, MA
Caculation results for Design Area 1       - TOP FLOOR         This system as shown on KRONGS COLLABVORATIVE       company print no	C B A REV: DESCRIPTION: STATUS: STATUS CLIENT: ENGINEER: KRONOS COL 235 MARGINAL ST CHELSEA, MA STE: 254 PARIS S BOSTON, MA TITLE: PIPING PLAN 1ST-ROOF SCALE AT AI: 3/16"=1'-0" DATE: 12/20/21 PROJECT NO: DRAWING NO: FF	ST DRAWN: CHECKED: JK NB REVISION:



# NFPA 13 TABLE 8.10.7.1.4 + FIGURE 8.10.7.1.4 (B) STANDARD SIDEWALL SPRINKLERS

TABLE 8.10.6.1 POSITIONING OF SPRINKL OBSTRUCTION TO DIS	ER TO AVOID
DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (INCHES)
(A)	(B)
LESS THAN 1 FT	0
1'-0" TO LESS THAN 1'-6"	0'-0"
1'-6" TO LESS THAN 2'-0"	0'-1"
2'-0" TO LESS THAN 2'-6"	0'-1"
2'-6" TO LESS THAN 3'-0"	0'-1"
3'-0" TO LESS THAN 3'-6"	0'-3"
3'-6" TO LESS THAN 4'-0"	0'-3"
4'-0" TO LESS THAN 4'-6"	0'-5"
4'-6" TO LESS THAN 5'-0"	0'-7"
5'-0" TO LESS THAN 5'-6"	0'-7"
5'-6" TO LESS THAN 6'-0"	0'-7"
6'-0" TO LESS THAN 6'-6"	0'-9"
6'-6" TO LESS THAN 7'-0"	0'-11"
7'–0" AND GREATER	1'-2"

# NFPA 13 TABLE 8.10.6.1.2 + FIGURE 8.10.6.1.2(A) RESIDENTIAL PENDENT AND UPRIGHT SPRAY SPRINKLERS

TABLE 8.3.2.5(c) TEMPERATURE RATINGS OF SPRINKLERS IN SPECIFIED RESIDENTIAL ARE/					
HEAT SOURCE	MINIMUM DISTANCE FROM EDGE OF SOURCE TO ORDINARY TEMPERATURE SPRINKLER (INCHES)	MINIMUM DISTANCE FF SOURCE TO INTI TEMPERATURE SPRINI			
SIDE OF OPEN OR RECESSED FIREPLACE	36	12			
FRONT OF RECESSED FIREPLACE	60	36			
KITCHEN RANGE	18	9			
WALL OVEN	18	9			
SIDE OF CEILING OR WALL MOUNTED HOT AIR DIFFUSER	24	12			
FRONT OF WALL MOUNTED HOT AIR DIFFUSER	36	18			
HOT WATER HEATER OR FURNACE	6	3			
LIGHT FIXTURE: 0W-250W	6	3			
LIGHT FIXTURE: 250W-499W	12	6			

FIRE PROTECTION NOTES:

HEIGHT

THE PURPOSE OF THIS FIRE PROTECTION DRAWING AND THE

INDICATE THE PROPOSED RESIDENTIAL SPRINKLER SYSTEM TO

BE INSTALLED WITHIN THE RENDVATED MULTI-UNIT BUILDING

LEVEL, THIRD LEVEL AND FOURTH LEVEL AS INDICATED ON

THIS RESIDENTIAL SPRINKLER SYSTEM HAS BEEN DESIGNED IN

ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13R (2013

THE SPRINKLER CONTRACTOR SHALL FOLLOW THE LATEST

EDITION) FOR A RESIDENTIAL BUILDING UP TO 4 STORIES IN

REQUIREMENTS OF NFPA 13R (2013 EDITION), MASSACHUSETTS

THIS SYSTEM WILL BE SUPPLIED BY A NEW 4" FIRE SERVICE,

4" SERVICE SHALL BE DESIGNED, INSTALLED, FLUSHED AND

TAPPED OFF THE EXISTING WATER MAIN ON PARIS STREET. THE

TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 24

ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13R, INCLUDING

THE FOUR HYDRAULICALLY MOST DEMANDING HEADS IN A SINGLE

INDICATED ON THIS DRAWING ALONG WITH SYSTEM DEMANDS AT

CONNECTION TO STREET AND CALCULATION RESULTS HAVE BEEN

CALCULATIONS HAVE BEEN SUBMITTED WITH THIS DRAWING TO

COMPARTMENT BASED ON THE REQUIREMENTS OF THE SPECIFIC

SPRINKLER HEAD AND THE SPACING USED IN THIS DESIGN (16'x16' REQUIRING A MINIMUM OF 13 GPM @ 7 PSI). REMOTE

COMPARED TO RECENT HYDRANT FLOW TEST INFORMATION

DBTAINED FROM THE BOSTON WATER & SEWER DEPARTMENT.

AREAS, DENSITIES AND HOSE STREAM ALLOWANCES ARE

BY A LICENSED UNDERGROUND CONTRACTOR AND WILL ENTER

THE SYSTEM HAS BEEN HYDRAULICALLY CALCULATED IN

THE BASEMENT AS INDICATED ON THIS DRAWING.

THE BOSTON FIRE DEPARTMENT FOR REVIEW.

STATE BUILDING CODE (780 CMR, 9TH EDITION) AND BOSTON

ASSOCIATED FIRE PROTECTION DESIGN NARRATIVE IS TO

LOCATED AT 254 PARIS ST IN BOSTON, MASSACHUSETTS.

THIS BUILDING CONSISTS OF A GROUND LEVEL, SECOND

THE ASSOCIATED ARCHITECTURAL DRAWINGS.

FIRE DEPARTMENT REQUIREMENTS.

## INSTALLATION NOTES:

ALL WORK SHALL BE PERFORMED BY A MASSACHUSETTS LICENSED SPRINKLER CONTRACTOR. THE SPRINKLER CONTRACTOR SHALL FOLLOW THE LATEST REQUIREMENTS OF NFPA 13R (2013 EDITION), MASSACHUSETTS STATE BUILDING CODE (9TH EDITION) AND THE BOSTON FIRE DEPARTMENTS.

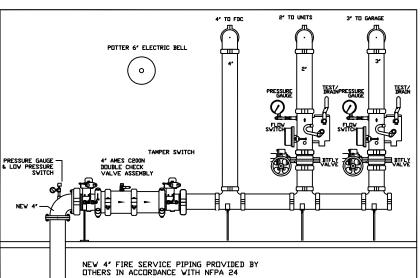
THE ARCHITECTURAL BACKGROUND OF BUILDING MAY DIFFER SLIGHTLY FROM ACTUAL LAYOUT. DRAWINGS ARE NOT INTENDED TO SHOW ALL OFFSETS AND PIPING ELEVATION CHANGES, CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS PRIOR TO FABRICATION.

CONTRACTOR SHALL HYDROSTATICALLY TEST ALL SPRINKLER PIPING AT 200 PSI FOR 2 HOURS AND IS RESPONSIBLE FOR THE COMPLETION OF ALL ABOVE GROUND TEST CERTIFICATES, SUPPLIED TO THE OWNER.

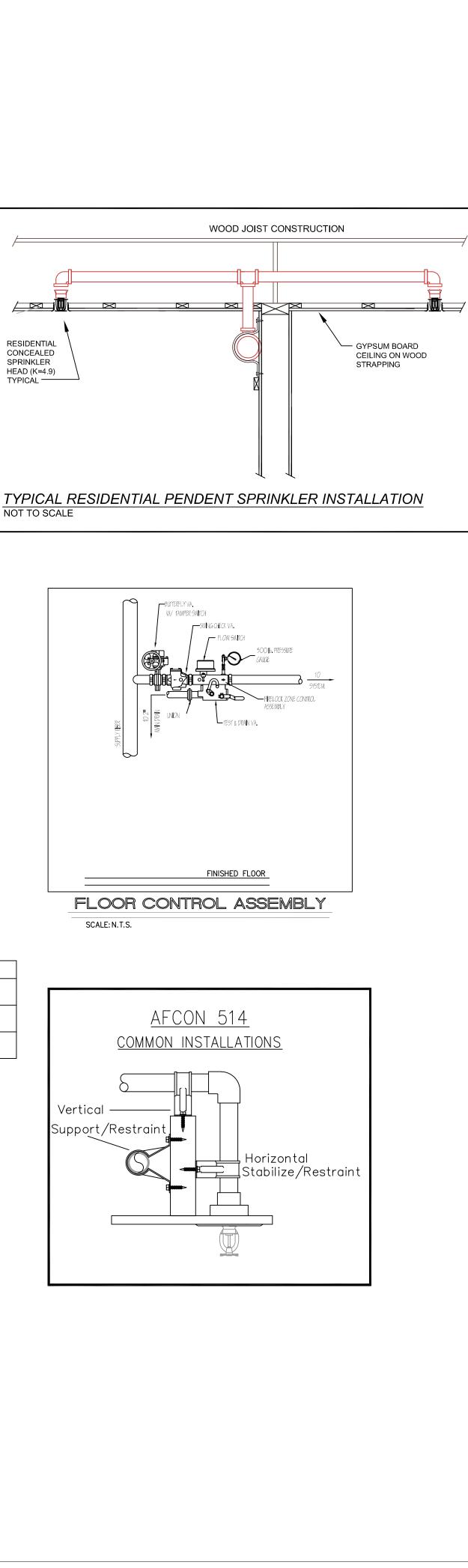
ALL PIPING INSTALLED THROUGHOUT THE RESIDENTIAL AREAS OF THE BUILDING SHALL BE UL LISTED CPVC SPRINKLER PIPING.ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13R (2013 EDITION) AND ALL MANUFACTURERS INSTALLATION RECOMMENDATIONS, ALL PIPING SHALL BE PITCHED TO DRAIN WITH LOW-POINT DRAINS AT SECTIONS OF PIPING SUBJECT TO WATER TRAPPING, SPRINKLER CONTRACTOR SHALL PROVIDE PROTECTIVE PLATES WHERE CPVC PIPING IS RUN THROUGH STUDS TO PREVENT PUNCTURING OF THE SPRINKLER PIPING DURING DRYWALL INSTALLATION AS REQUIRED BY NFPA STANDARDS.

ALL SPRINKLER HEADS WITHIN RESIDENTIAL AREAS OF THE BUILDING SHALL BE RESIDENTIAL PENDENT SPRINKLERS. SPRINKLERS WITHIN THE BASEMENT LEVEL WILL BE QUICK-RESPONSE UPRIGHT HEADS. ALL HEADS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND THE REQUIREMENTS OF NFPA 13R (2013 EDITION).

THE BUILDING OWNER IS RESPONSIBLE FOR MAINTAINING THIS SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 25, INCLUDING THE PROVISION OF HEAT IN ALL AREAS CONTAINING SPRINKLER PIPING AND HEADS TO PREVENT PIPE FROM FREEZING. THE ENGINEER OF RECORD TAKE NO RESPONSIBILITY FOR ANY DAMAGES CAUSED BY FREEZE UPS.



/
RESIDENTIAL CONCEALED SPRINKLER HEAD (K=4.9) TYPICAL



1		
-		
•		

### SPRINKLER HEAD LOCATIONS HAVE NOT BEEN COORDINATED WITH CEILING-MOUNTED FIXTURES. INSTALLING SPRINKLER CONTRACTOR SHALL COORDINATE WITH ELECTRICIAN AND LOCATE SPRINKLERS AT LEAST 36" FROM THE CENTER OF ANY CEILING-MOUNTED FIXTURE, IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 WHILE MAINTAINING THE MAXIMUM DISTANCES FROM WALLS INDICATED ON THIS DESIGN (8-FT). ADDITIONAL SPRINKLERS REQUIRED DUE TO INABILITY TO MEET OBSTRUCTION CRITERIA SHALL BE AT THE OWNERS EXPENSE.



SPRINKLER CONTRACTOR SHALL TAKE PRECAUTIONS WHEN INSTALLING SPRINKLER PIPING IN JOISTS ON TOP FLOOR. GENERAL CONTRACTOR SHALL BE REQUIRED TO INSTALL SUFFICIENT INSULATION TO MAINTAIN 40-DEGREES IN ALL AREAS WHERE SPRINKLER PIPING AND HEADS ARE INSTALLED

PRESSURE GAUGE

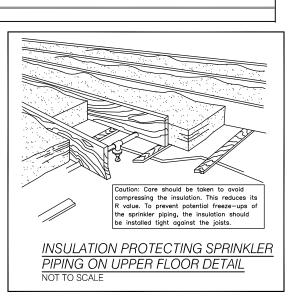
Sì	ſМ	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#
		4	PEND	BRASS	155	5.60	1/2"	TY3251	Тусо	TY-B
		14	PEND	CHROME	155	5.60	1/2"	TY3505	Тусо	RFLL
Ŕ		65	PEND	BRASS	155	4.90	1/2"	TY2234	Тусо	LFII

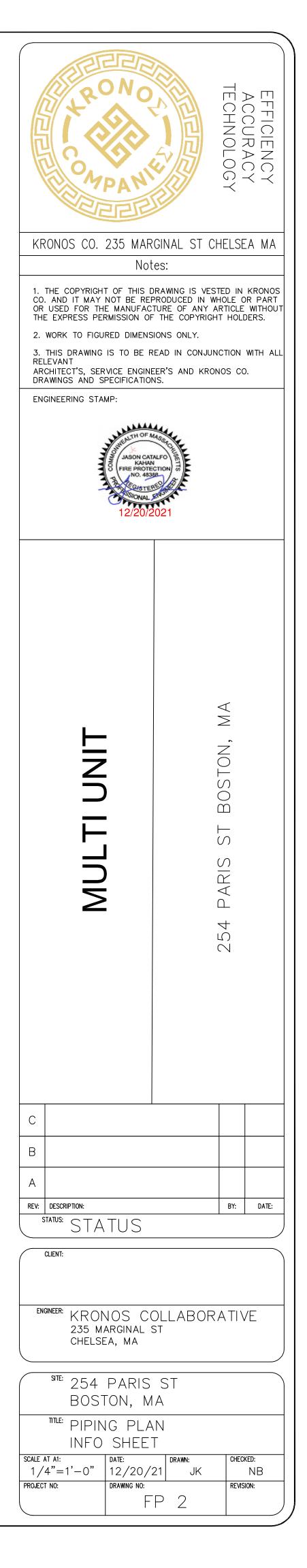


# UL LISTED CPVC SPRINKLER PIPING -

# FREEZE PROTECTION

THE BUILDING OWNER IS RESPONSIBLE FOR PROVIDING HEAT IN ALL AREAS CONTAINING SPRINKLER PIPING AND HEADS TO PREVENT PIPE FROM FREEZING. ANY AREAS THAT RAISE CONCERN WITH REGARD TO FREEZING POTENTIAL SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION, IN WRITING, PRIOR TO INSTALLATION. THE ENGINEER OF RECORD TAKE NO RESPONSIBILITY FOR DAMAGES CAUSED BY FREEZE-UPS OF THE SPRINKLER SYSTEM.





# FIRE PROTECTION NARRATIVE

COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE 780 CMR, 9th Edition FIRE PROTECTION SYSTEMS CHAPTER 9

Date: 12/20/21

Project and Owner: 254 Paris St Boston, Ma

- 1 Building Description:
  - * Wood and GWB walls, wood frame and roof.
  - * Footprint SQ FT of area under consideration =5,309 SF approximately
  - * Floors above grade = 4
  - * Floors below grade = 0
  - * Occupancies = Dwelling units classified as non transient Apartments or Condo's
  - * Hazardous materials = None known
  - * High storage = None known Limited to 12 ft
- 2 Applicable Laws, Regulations, Standards:
  - * NFPA 13R 2013) Installation of Sprinkler Systems
  - * 780 CMR Mass. State Building Code (Current Edition)
  - * Underwriters Laboratories Inc. Publications
  - * Manufacturer's Listed and Approved Design/Installation/Maintenance Manuals
- 3 Design Responsibility for Fire Protection Systems:
  - * Tier I permit drawings developed by Coliseum, JFP Kronos Cos
  - * Fire Sprinkler P.E. of record is Jason Kahan PE.
  - * Fire Alarm by Kronos Cos
  - * Kitchen/Cooking suppression by others
  - * Underground fire service by others
  - * Manual suppression systems by others
  - * Smoke control systems by others

4 - Fire Protection Systems to be installed:

The fire protection project consists of installing new sprinklers and pipe in an existing building. The occupancy is non-transient dwelling units (Residential) and conforms to the requirements of NFPA 13. A new NFPA compliant fire service will be installed sized per plan. New piping is sized according to a schedule established by hydraulic calculations. Provided: single inlet 2-1/2" FDC for Fire Department use.

5 – Design Methodology:

Basement fire sprinkler pipe is steel schedule 10 with mechanical fittings, or steel schedule 40 with threaded fittings. Residential area piping is CPVC. Sway bracing is not required since all hanger rods are less than 6" in length. All sprinkler pipes are exposed (per UL listing for CPVC pipe).

The most hydraulically remote residential pendent or sidewall sprinkler heads are to be calculated 2-sprinkler heads if NFPA 13D 4-sprinkler heads if NFPA 13R and or NFPA 13 (code depending). Residential sprinkler heads as shown on plan are calculated on the top floor, are calculated per manufacturer specifications for 14 x 14 spacing (14 gpm each), residential pendants .; up to 4 sprinklers in a compartment. Per NFPA 13 design Basement Rooms are calculated per NFPA 13 (2013) to Ordinary Hazard Group 1 for the largest room which

contains 3 sprinklers (room is less than 500 sq ft). A verification calculation at 4-Commercial sprinkler heads at .15/4-heads to be confirmed for an NFPA 13D or NFPA 13R system.

CODE REFERENCES:

* Design and installation to conform to NFPA 13R 2013 edition

* Design and installation to conform to State Code, Local Fire and Building Departments.

- 6 Special considerations and descriptions:
  - * No official code interpretations.
  - * No official waivers or variances.
- 7 Sequence of operation:
  - * Fire sprinkler activates.
  - * Water starts flowing and activates the water flow switch.
  - * Water flow switch sends alarm signal to alarm panel and Fire Department.
  - * Building alarm is activated.

### 8 - Testing criteria:

- * Tests will be conducted to the satisfaction of local authorities.
- * Tests to be set up and scheduled by the contractor.
- * Water will be flowed from the test valve on the riser.
- * Pipes to be pressure tested to 200 psi for two hours.
- * All alarm and tamper switches to be tested for proper activation.
- * Written approval of final tests to be obtained from the code official.
- * Required fire sprinkler and aboveground piping reports to be submitted to the code officials.

For any further questions or clarifications feel free to call at

Jason Kahan P.E. 617-633-3533





Date: 12/20/21

Inspectional Services Department City of Boston 1010 Massachusetts Avenue Boston, MA 02118

Re: Tier I Construction Documents for Residential Building 254 Paris St Boston, Ma

### Subject: Fire Alarm System Narrative

Below is a narrative that supplements Tier I, Fire Alarm Construction documents in accordance with the 2013 Edition of NFPA 72 and Ninth Edition of the Massachusetts State Building Code, Section 107.1.2 (Fire Department Review).

# Building Summary First , Second, Third and Fourth Floors.

In reference to the above-mentioned project, the existing building consists of a multi-unit residence. The building consists

The existing building is approximately 5,309 square feet,38-11"tall, and access for fire apparatus will be from

The Building Use Group is "R2".

The building will be fully sprinkled.

### Design Methodology

This office has designed a new addressable, microprocessor-based fire alarm system that will be equipped with a Honeywell #IPGSM-4G IP/Cellular communicator to notify the fire department of any alarms within the building. The communicator will send alarm, trouble, and supervisory signals to a UL Approved Central Station Monitoring Company.

The new Fire Alarm Control Panel (FACP) will be in the basement sprinkler room and the new Fire Alarm Annunciator (FAA) will be located in the main entry vestibule located on the first floor. There will be an emergency lighting unit at both locations that will provide 90 minutes of emergency lighting in the event of a power failure.

The building will be marked with an exterior "RED" beacon to alert fire officials to the location of the fire alarm control panel.

Addressable photoelectric type smoke detectors will be installed in the basement, above the fire alarm annunciator in the first-floor main entry vestibule, sprinkler room above the FACP and the third-floor common stairwell.

New addressable system connected heat detectors will be installed in all the dwelling unit entry areas. These

devices will provide an addressable point on the FACP if one of them is activated. This will indicate to the fire officials the exact dwelling unit that is in alarm.

System connected Carbon Monoxide detector will be provided in the basement. It shall be programmed to transmit an alarm signal to a U.L. Approved central station monitoring company. Retransmission from the central station to the building manager will take place to alert him/her of a potential ga sleak.

Addressable manual pull stations will be installed within 5'-0" of every exit door and no further apart than 200 linearfeet.

Monitor modules will be installed at sprinkler system flow switches and flow control valve stations. These devices will be programmed to send an alarm signal to central station monitoring company and sound the evacuation signal throughout the building.

Monitor modules will be installed at sprinkler system tamper switches. These devices will be programmed to send a supervisory signal to the central station monitoring company.

The entire building will be equipped with ADA type Horn/Strobe audio/visual devices. These devices when activated will provide a synchronized Temporal pattern (Code 3) with a strobe intensity of 75 candela at 45'-0". Both the horn and the light will be synchronized. Power supplies will be strategically located in storage closets to provide Notification Appliance Circuits (NAC) throughout the building.

Each dwelling unit living space and each bedroom will be equipped with Low Frequency (520Hz) sounder devices to augment the sound level throughout each dwelling unit.

The primary power source will be a dedicated 120 volt circuit run in Metal Clad cable from a dedicated 20-amp single pole circuit breaker. The breaker shall be equipped with a handle-lock and labeled "FACP"

The entire fire alarm system shall have enough battery capacity to operate the entire system under quiescent load (system operating in a non-alarm condition) for a minimum of 24 hours and still be able to operate all alarm notification appliances for a period of 10 minutes as a secondary source of power.

Local 120-volt, tandem wired photoelectric smoke/carbon monoxide detectors with integral battery back-up will be installed in all dwelling units. The devices shall be installed in all living rooms and bedrooms in accordance with 780 CMR 919/527 CMR 31.00 Sections of the Massachusetts State BuildingCode.

Local smoke detectors will be photoelectric type detectors in accordance with UL 217.

All local devices within a dwelling unit will be interconnected so that if one device is in alarm all the interconnected devices will sound within the respective dwelling unit.

All fire alarm circuit wiring shall be RED, plenum rated, power limited fire alarm cable (FPLP) the entire length of each circuit. Riser cables shall be RED, power limited fire alarm cable suitable for use in vertical shafts or runs from floor to floor and shall be type FPLR cable. NAC's shall be 2#14 and SLC's shall be 2#14 twisted. All fire alarm circuits shall be arranged class 'A'.

### Sequence of Operation

1. The fire alarm system shall be in accordance with NFPA 72, ANSI 117.7, and U.L. Standard for the Hearing-Impaired and A.D.A. Any changes to the system design shall be pre-approved by the City of Boston Fire Department.

- 2. An alarm system shall be provided and installed to serve the following functions.
  - a. General evacuation alarm signaling
  - b. Communications to a U.L. Approved Central Station Monitoring Company
  - c. Beacon shall flash
  - d. Annunciate alarm point on FACP and FAA
- 3. The operation of any system smoke detector, heat detector, manual fire alarm station or sprinkler system flow switch shall automatically.
  - a. Notify the Fire Department via a U.L. Approved Central Station Monitoring Company
  - Activate the evacuation signal throughout the building. The evacuation signal shall be a
    Temporal Pattern general evacuation signal. The evacuation signal shall be approximately
    600 Hertz and terminating at approximately 3 ½ seconds and an interruption between
    tones of approximately ½ second
  - c. Activate all strobe lights throughout the building
  - d. Activate exterior beacon on the outside of the building
  - e. Annunciate alarm points on the FACP and FAA
- 4. The system shall be electrically/electronically supervised against component failure of the entire audio path including but not limited to audio/visual devices, wiring, switches and electrical contacts and shall detect opens, short, grounds or loss of signal which might impair the function of the system.
- 5. All opens, short, grounds or loss of signal shall cause a trouble signal at the FACP and notify the central station. Retransmission should take place within 90 seconds.
- 6. The fire alarm control panel for the Fire Department Operations will be provided in the basement sprinkler room and the new fire alarm annunciator will be located in the main entry vestibule located on the first floor which is accessible from Paris St.. The fire alarm control panel will also allow the fire department to Reset, Acknowledge and Test the system.
- 7. The fire alarm control panel shall contain the following.
  - a. LCD read-out of all alarm points in the fire alarm system
  - b. Battery cabinet
  - c. Emergency battery-powered lighting sufficient to provide at least 90 minutes of lighting
  - d. Smoke detector above the FACP and FAA
- 8. Alarm Sequence.
  - a. General evacuation signal

### Inspection, Testing & Maintenance

Inspection testing and maintenance shall be performed in accordance with 2013 NFPA 72, Chapter 14, Table 14.3.1 "Visual Inspection Frequencies", Table 14.4.2.2 "Test Methods", Table 14.4.5 "Testing Frequencies" and 14.6.2 "Maintenance, Inspection and Testing Records".

A record of completion in accordance with NFPA 72 will be required to be submitted to the engineer and

owner, verifying that the system has been installed and tested in accordance with approved plans and specifications. Tier II Documents

The installing contractor shall be responsible for providing Tier II shop drawings to the Engineer of Record prior to procurement or installation or any equipment. The Tier II shop drawings must be approved by the Engineer of Record prior to submitting them to the fire department.

The Tier II shop drawings shall include but not be limited to detailed design layout; equipment cut sheets, sequence of operations, matrix, one-line wiring diagrams, voltage drop calculation, battery calculations, etc...

Tier II shop drawings shall include the installing contractors company name, person in responsible charge, license number license expiration date.

### Tier III Documents

The installing contractor shall be responsible for providing Tier III as-built drawings that have been reviewed and approved by the Engineer of Record performing the Construction Control prior to turning over to the owner. All revisions and deviations shall be documented on the Tier III documents.

If you have any questions or comments on the fire alarm system indicated, please do not hesitate to contact this office at your convenience.



# CALCULATION SUMMARY

# Project Name : MULTI UNIT

Drawing No. :

Project Location: 254 PARIS ST

City: BOSTON, MA 02128

# Design Areas

2		Design Area Name
Demand (HW) OH		Calc. Mode (Model)
ОН		Occupancy
1434.25	(ft²)	Area of Application
536	(gpm)	Area of Total Water Pressure @ pplication Source
Required 24.6	(psi)	Pressure @ Source
0.15	(gpm/ft²)	Min. Density
10.3	(psi)	Min. Pressure
18	(gpm)	Min. Flow
14	#	Calculated Heads
250	(gpm)	Hose Streams
44.6	(psi)	Margin To Source

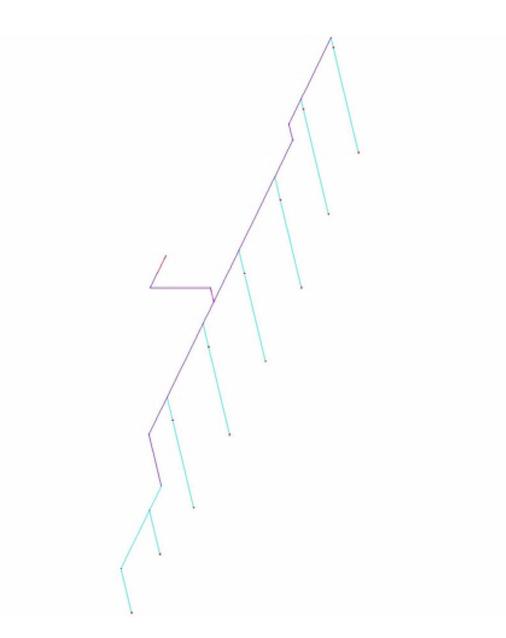


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# HYDRAULIC CALCULATIONS

Job Information	-
Project Name : MULTI UNIT	
Contract No. :	City: BOSTON, MA 02128
Project Location: 254 PARIS ST	Date: 12/20/2021
Contractor Information	
Name of Contractor: KRONOS COLLABVORATIVE	
Address: 235 MARGINAL ST	City: CHELSEA, MA 02150
Phone Number: 617-633-3533	E-mail:
Name of Designer: JK	
Authority Having Jurisdiction:	
Design	
Remote Area Name	2
Remote Area Location	GARAGE
Occupancy Classification	ОН
Density (gpm/ft ² ) 0.15	
Area of Application (ft²)	1434.25
Coverage per Sprinkler (ft ² )	120
Number of Calculated Sprinklers	14
In-Rack Demand (gpm)	0
Special Heads	
Hose Streams (gpm)	250
Total Water Required (incl. Hose Streams) (gpm)	536
Required Pressure at Source (psi)	24.6
Type of System	Dry
Volume - Downstream DPV (gal)	40.4 gal
Water Supply Information	
Date	
Location	LEXINGTON ST
Source	W1

Notes



Node Labels: Off Pipe Labels: Off

Diagram for Design Area : 2 (Optimized Hvdraulic Simplified)

### **Calculation Info**

Calculation Mode	Demand
Hydraulic Model	Hazen-Williams
Fluid Name	Water @ 60F (15.6C)
Fluid Weight, (lb/ft³)	N/A for Hazen-Williams calculation.
Fluid Dynamic Viscosity, (lb s/ft ² )	N/A for Hazen-Williams calculation.

### Water Supply Parameters

Supply 1 : W1

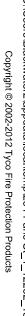
Flow (gpm)	Pressure (psi)
0	70
1867	62

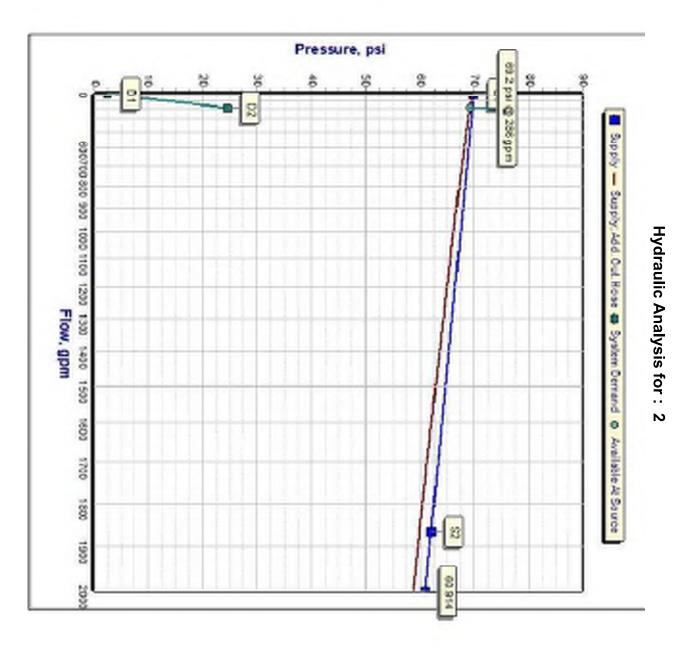
### **Supply Analysis**

Node at Source	Static Pressure (psi)	Residual Pressure (psi)	Flow (gpm)	Available Pressure (psi)	Total Demand (gpm)	Required Pressure (psi)
W1	70	62	1867	69.8	536	24.6

### Hoses

Hoses						
Inside Hose Flow / Standpipe Demand (gpm)						
Outside Hose Flow (gpm)						
Additional Outside Hose Flow (gpm)						
Other (custom defined) Hose Flow (gpm)						
Total Hose Flow (gpm)						
Sprinklers						
Ovehead Sprinkler Flow (gpm)	286					
InRack Sprinkler Flow (gpm)	0					
Other (custom defined) Sprinkler Flow (gpm)	0					
Total Sprinkler Flow (gpm)	286					
Other						
Required Margin of Safety (psi)	0					
W1 - Pressure (psi)	24.6					
W1 - Flow (gpm)	286					
Demand w/o System Pump(s)	N/A					





# Hydraulic Analysis for: 2

# **Graph Labels**

Label	Description	Values		
Laber	Description	Flow (gpm)	Pressure (psi)	
S1	Supply point #1 - Static	0	70	
S2	Supply point #2 - Residual	1867	62	
D1	Elevation Pressure	0	2.6	
D2	System Demand	286	24.6	

# **Curve Intersections & Safety Margins**

Curve Name	Interse	ection	Safety Margin		
	Pressure (psi)	Flow (gpm)	Pressure (psi)	@ Flow (gpm)	
Supply	69.2	520.2	44.6	536	
Supply; Add. Out. Hose	68.5	516.9	44.6	536	

# **Open Heads**

Head Ref.	Head Type	Coverage	K-Factor		Required			Calculated	
Heau Kei.	пеац туре	Coverage	K-Factor	Density	Flow	Pressure	Density	Flow	Pressure
		(ft²)	(gpm/psi½)	(gpm/ft²)	(gpm)	(psi)	(gpm/ft²)	(gpm)	(psi)
S10	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.17	20.4	13.3
S11	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.155	18.6	11.1
S12	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.15	18	10.3
S13	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.172	20.7	13.6
S14	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.174	20.9	13.9
S15	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.177	21.2	14.3
S16	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.176	21.1	14.2
S17	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.173	20.7	13.7
S18	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.171	20.6	13.5
S5	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.171	20.5	13.4
S6	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.173	20.7	13.7
S7	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.175	21	14.1
<b>S</b> 8	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.175	21	14

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S9	Overhead Sprinkler	120	5.6	0.15	18	10.3	0.171	20.6	13.5
----	-----------------------	-----	-----	------	----	------	-------	------	------

				Nouc		
Node#	Type	K-Fact.	Discharge	Coverage	Tot. Pres.	Req. Pres.
Elev	Hgroup	Open/Closed	Overdischarge	Density	Elev. Pres.	Req. Discharge
ft		gpm/psi½	gpm gpm	ft² gpm/ft²	psi psi	psi gpm
S12	Overhead Sprinkler	5.6	18	120	10.3	10.3
8	HEAD	Open	0	0.15	-2.6	18
S11	Overhead Sprinkler	5.6	18.6	120	11.1	10.3
8	HEAD	Open	0.6	0.155	-2.6	18
S10	Overhead Sprinkler	5.6	20.4	120	13.3	10.3
8	HEAD	Open	2.4	0.17	-2.6	18
S5	Overhead Sprinkler	5.6	20.5	120	13.4	10.3
8	HEAD	Open	2.5	0.171	-2.6	18
S9	Overhead Sprinkler	5.6	20.6	120	13.5	10.3
8	HEAD	Open	2.6	0.171	-2.6	18
S18	Overhead Sprinkler	5.6	20.6	120	13.5	10.3
8	HEAD	Open	2.6	0.171	-2.6	18
S13	Overhead Sprinkler	5.6	20.7	120	13.6	10.3
8	HEAD	Open	2.7	0.172	-2.6	18
S6	Overhead Sprinkler	5.6	20.7	120	13.7	10.3
8	HEAD	Open	2.7	0.173	-2.6	18
S17	Overhead Sprinkler	5.6	20.7	120	13.7	10.3
8	HEAD	Open	2.7	0.173	-2.6	18
S14	Overhead Sprinkler	5.6	20.9	120	13.9	10.3
8	HEAD	Open	2.9	0.174	-2.6	18
S8	Overhead Sprinkler	5.6	21	120	14	10.3
8	HEAD	Open	3	0.175	-2.6	18
S7	Overhead Sprinkler	5.6	21	120	14.1	10.3
8	HEAD	Open	3	0.175	-2.6	18
S16	Overhead Sprinkler	5.6	21.1	120	14.2	10.3
8	HEAD	Open	3.1	0.176	-2.6	18
S15	Overhead Sprinkler	5.6	21.2	120	14.3	10.3
8	HEAD	Open	3.2	0.177	-2.6	18
002 8	Node NODE				12.3 -2.6	
013 8	Node NODE				14 -2.6	
012 8	Node NODE				14.1 -2.6	
009 8	Node NODE				14.3 -2.6	
008 8	Node NODE				14.6 -2.6	
003 8	Node NODE				14.9 -2.6	
005 8	Node NODE				14.9 -2.6	
006 8	Node NODE				15 -2.6	
007 8	Node NODE				15.4 -2.6	
014-0 8	Node NODE				15.5 -2.6	
014-I 8	Node NODE				16.4 -2.6	

# Node Data

Node# Elev	Type Hgroup	K-Fact. Open/Closed	Discharge Overdischarge	Coverage Density	Tot. Pres. Elev. Pres.	Req. Pres. Req. Discharge
ft		gpm/psi½	gpm gpm	ft² gpm/ft²	psi psi	psi gpm
016 2	Node NODE				20.8 0	
018-0 2	Node NODE				20.8 0	
018-I 2	Node NODE				24.6 0	
W1 2	Supply SUPPLY		-286		24.6 0	

# Node Data

	_								<b>a</b>	
Path #	Type	Schedule	HWC	Fittings	Length	Flow	Fr Resist.	Vel Pres.	Start	Start Disch.
Pipe Ref.	Hgroup	Size	Rough.	Eq.Len.	Total Len.	Velocity	Loss Frict	Loss Elev.	End	End Disch.
			in	ft	ft ft	gpm ft/s	psi/ft psi	psi psi		gpm gpm
1	Brline	10	100	1(us.Tee-Run);1(us.90);	14.5	18	0.1203	0.3	002	18
002	PIPE	1	0.015	1.77	16.27	6.11	2	0	S12	
1	Brline	10	100	1(us.90);	3.99	36.6	0.4485	1	003	
003	PIPE	1	0.015	1.77	5.76	12.44	2.6	0	002	
1	Cmain	10	100	1(us.Tee-Run);1(us.90);	12	36.6	0.0022	0.0	005	
005	PIPE	3	0.015	6.71	18.71	1.41	0.0	0	003	
1 006	Cmain PIPE	10 3	100 0.015	1(us.Tee-Run);	12	78.7 3.03	0.0092 0.1	0.1 0	006 005	
1	Cmain	10	100	1(us.Tee-Br);	3.6	120.9	0.0204	0.1	007	
007	PIPE	3	0.015	14.37	17.98	4.65	0.4	0	006	
1	Cmain	10	100	1(coupling);	0.23	286	0.1002	0.8	014-0	
022	PIPE	3	0.015	0.96	1.19	10.99	0.1	0	007	
1 187	DPV DPV	DPV-1 3	0 0		1.02	286 0	0.8247 0.8	0 0	014-I 014-O	
1	Cmain	10	120	2(us.90);	6.36	286	0.0715	0.8	016	
024	PIPE	3	0.004	18.82	25.18	10.99	1.8	2.6	014-I	
1	Cmain	10	120	1(us.Tee-Run);1(coupling);	2.41	286	0.0194	0.3	018-0	
025	PIPE	4	0.004	1.32	3.73	6.44	0.1	0	016	
1 188	BFP BFP	AmesC200N 4	0 0		2.43	286 0	1.5641 3.8	0 0	018-I 018-O	
1 027	Cmain PIPE	10 4	120 0.004		0.32	286 6.44	0.0194 0	0.3 0	W1 018-I	-286
2	Brline	10	100	1(us.Tee-Br);	5	18.6	0.1283	0.3	002	18.6
186	PIPE	1	0.015	4.43	9.43	6.33	1.2	0	S11	
3 017	Brline PIPE	10 1.5	100 0.015		12	20.4 2.95	0.019 0.2	0.1 0	S18 S10	20.6 20.4
3	Brline	10	100	1(us.Tee-Br);	1.11	41	0.0692	0.2	012	20.6
016	PIPE	1.5	0.015	7.02	8.13	5.93	0.6	0	S18	
3	Cmain	10	100	1(us.Tee-Run);2(us.90);	11.91	82.3	0.01	0.1	009	
010	PIPE	3	0.015	13.42	25.32	3.16	0.3	0	012	
3 009	Cmain PIPE	10 3	100 0.015	1(us.Tee-Run);	12	123.5 4.75	0.0212 0.3	0.2 0	008 009	
	Cmain PIPE	10 3	100 0.015	1(us.Tee-Br); 14.37	8.4 22.77	165.1 6.34	0.0362 0.8	0.3 0	007 008	
4 019	Brline PIPE	10 1.5	100 0.015		10.03	20.5 2.97	0.0193 0.2	0.1 0	S13 S5	20.7 20.5
4	Brline	10	100	1(us.Tee-Br);	2.63	41.2	0.07	0.2	009	20.7
018	PIPE	1.5	0.015	7.02	9.64	5.97	0.7	0	S13	
5 015	Brline PIPE	10 1.5	100 0.015		12	20.6 2.98	0.0193 0.2	0.1 0	S17 S9	20.7 20.6
5	Brline	10	100	1(us.90);	1.11	41.3	0.0702	0.2	013	20.7
014	PIPE	1.5	0.015	3.51	4.62	5.98	0.3	0	S17	
5 013	Cmain PIPE	10 3	100 0.015	1(us.Tee-Run);	10.04	41.3 1.59	0.0028 0.0	0.0 0	012 013	
6 021	Brline PIPE	10 1.5	100 0.015		10.03	20.7 3	0.0196 0.2	0.1 0	S14 S6	20.9 20.7
6	Brline	10	100	1(us.Tee-Br);	2.63	41.6	0.0711	0.2	008	20.9
020	PIPE	1.5	0.015	7.02	9 <u>.</u> 64	6.02	0.7	0	S14	
7 185	Brline PIPE	10 1.5	100 0.015		10.03	21 3.03	0.02 0.2	0.1 0	S16 S8	21.1 21

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# Pipe Data

Start Tot.Pres. End Tot.Pres.
psi psi
12.3 10.3
14.9 12.3
14.9 14.9
15 14.9
15.4 15
15.5 15.4
16.4 15.5
20.8 16.4
20.8 20.8
24.6 20.8
24.6 24.6
12.3 11.1
13.5 13.3 14.1
14.1 13.5 14.3
14.5 14.1 14.6
14.0 14.3 15.4
13.4 14.6 13.6
13.4 14.3
13.6 13.7
13.5 14
13.7 14.1
14 13.9
13.7 14.6
13.9 14.2
14

Path # Pipe Ref.	Type Hgroup	Schedule Size	HWC Rough.	Fittings Eq.Len.	Length Total Len.	Flow Velocity	Fr Resist Loss Frict.	Vel Pres. Loss Elev.	Start End	Start Disch. End Disch.
			in	ft	ft ft	gpm ft/s	psi/ft psi	psi psi		gpm gpm
7 184	Brline PIPE	10 1,5	100 0.015	1(us.Tee-Br); 7.02			0.0727 0.7		005 S16	21.1
8 183	Brline PIPE	10 1.5	100 0.015		1 1 1 1 1 1 3		0.0201 0.2	0.1 0		21.2 21
8 182	Brline PIPE	10 1.5	100 0.015	1(us.Tee-Br); 7.02			0.0732 0.7		006 S15	21.2

# Pipe Data

# Pipe Data

Start Tot.Pres. End Tot.Pres.
psi psi
14.9 14.2
14.3 14.1
15 14.3

Node 1	Elev 1	K-Factor 1	Flow added(q)*	Nominal ID	Fittings	L	C Factor	total (Pt)	
Node 2	Elev 1 Elev 2		Total flow (Q)	Actual ID	quantity x (name) = length	F	Pf per ft	elev (Pe)	NOTES
					, , , , ,	Т	·	frict (Pf)	
	(ft)	(gpm/psi½)	(gpm)	(in)	(ft)	(ft)	(psi)	(psi)	
S12	8				1x(us.90)=1.77	14.5	100	10.3	
002	8		18	1.097		1.77	0.1203	0	
002	8		18.6	1	1x(us.90)=1.77	16.27 3.99	100	12.3	
002	8		36.6		1x(us.90)=1.77	1.77	0.4485	12.3	
						5.76		2.6	
003	8		0		1x(us.90)=6.71	12	100	14.9	
005	8		36.6	3.26		6.71	0.0022	0	
005						18.71	100	0.0	
005 006	8 8		42.1 78.7			12 0	100 0.0092	14.9 0	
000	0		/0./	5.20		12	0.0092	0.1	
006	8		42.2	3	1x(us.Tee-Br)=14.37	3.6	100	15	
007	8		120.9		,	14.37	0.0204	0	
						17.98		0.4	
007	8		165.1		1x(coupling)=0.96	0.23	100	15.4	
014-0	8		286	3.26		0.96 1.19	0.1002	0 0.1	
014-0	8		0	3		1.19	0	15.5	DPV-1
014-0 014-I	8		286			1.02	0.8247	15.5	***
-						1.02		0.8	
014-I	8		0		2x(us.90)=18.82	6.36	120	16.4	
016	2		286	3.26		18.82	0.0715	2.6	
0.1.6						25.18	100	1.8	
016 018-0	2		0 286		1x(coupling)=1.32	2.41 1.32	120 0.0194	20.8 0	
010-0	2		200	4.20		3.73	0.0194	0.1	
018-0	2		0	4		2.43	0	20.8	AmesC200N
018-I	2		286			0	1.5641	0	***
						2.43		3.8	
018-I	2		0			0.32	120	24.6	
W1	2		286	4.26		0 0.32	0.0194	0	
S11	8	5.6	18.6	1	1x(us.Tee-Br)=4.43	5	100	-	
002	8		18.6			4.43	0.1283	0	
						9.43		1.2	
S10	8					12	100		
S18	8	5.6	20.4	1.68		0	0.019		
S18	8	5.6	20.6	1 Г	1x(us.Tee-Br)=7.02	12 1.11	100	0.2 13.5	
012	8		41			7.02	0.0692	13.5	
						8.13		0.6	
012	8		41.3		2x(us.90)=13.42	11.91	100	14.1	
009	8		82.3	3.26		13.42	0.01	0	
				_		25.32	100	0.3	
009 008	8 8		41.2 123.5			12 0	100 0.0212	14.3 0	
	l °		123.5	3.20		12	0.0212	0.3	
008	8		41.6	3	1x(us.Tee-Br)=14.37	8.4	100	14.6	
007	8		165.1	3.26		14.37	0.0362	0	
						22.77		0.8	
S5	8		20.5			10.03	100	13.4	
S13	8	5.6	20.5	1.68		0 10.03	0.0193	0 0.2	
						1 10.03		0.2	

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Node 1	Elev 1		Flow added(q)*	Nominal ID	Fittings	L	C Factor	total (Pt)	
Node 2	Elev 2	K-Factor 2	Total flow (Q)	Actual ID	quantity x (name) = length	F	Pf per ft	elev (Pe)	NOTES
						Т		frict (Pf)	
	(ft)	(gpm/psi½)		(in)	(ft)	(ft)	(psi)	(psi)	
S13	8	5.6			1x(us.Tee-Br)=7.02	2.63	100	13.6	
009	8		41.2	1.68		7.02	0.07		
						9.64		0.7	
S9	8	5.6	20.6			12	100	13.5	
S17	8	5.6	20.6	1.68		0	0.0193	0	
						12		0.2	
S17	8	5.6			1x(us.90)=3.51	1.11	100	13.7	
013	8		41.3	1.68		3.51	0.0702	0	
						4.62		0.3	
013	8		0	3		10.04	100	14	
012	8		41.3	3.26		0	0.0028	0	
						10.04		0.0	
S6	8	5.6	20.7	1.5		10.03	100	13.7	
S14	8	5.6	20.7	1.68		0	0.0196	0	
						10.03		0.2	
S14	8	5.6	20.9	1.5	1x(us.Tee-Br)=7.02	2.63	100	13.9	
008	8		41.6	1.68		7.02	0.0711	0	
						9.64		0.7	
S8	8			1.5		10.03	100	14	
S16	8	5.6	21	1.68		0	0.02		
						10.03		0.2	
S16	8	5.6	21.1	1.5	1x(us.Tee-Br)=7.02	2.63	100	14.2	
005	8		42.1	1.68		7.02	0.0727	0	
						9.64		0.7	
S7	8			1.5		10.03	100	14.1	
S15	8	5.6	21	1.68		0	0.0201	0	
						10.03		0.2	
S15	8	5.6			1x(us.Tee-Br)=7.02	2.63	100	14.3	
006	8		42.2	1.68		7.02	0.0732	0	
						9.64		0.7	

# **PIPE INFORMATION**

* Discharge shown for flowing nodes only

		(ft)	(gpm/psi½)	(gpm)	(in)	(ft)	(ft)	(psi)	(psi)	
	Node 2			(1)		quantity x (name) = length	F		elev (Pe) frict (Pf)	NOTES
- 1	Node 1	Elev 1	K-Factor 1	Flow added (g)	Nominal ID	Fittinas	L	C Factor	total (Pt)	

### Path No: 1

W1	I							24.6	
VV 1	2		280	4.20		0.32	0.0194	0	
018-I W1	2 2		0 286	4 4.26		0.32	120 0.0194	24.6 0	
						2.43		3.8	
018-I	2		286	0		0	1.5641	0	***
018-0	2		0	4		2.43	0		AmesC200N
010-0	2		200	4.20		3.73	0.0194	0.1	
016 018-0	2 2		0 286	4 4.26	1x(coupling)=1.32	2.41 1.32	120 0.0194	20.8 0	
						25.18		1.8	
016	2		286	3.26		18.82	0.0715	2.6	
014-I	8		0		2x(us.90)=18.82	6.36	120	16.4	
						1.02		0.8	
014-I	8		286	0		0	0.8247	0	***
014-0	8		0	3		1.02	0	15.5	DPV-1
014-0	8		286	3.26		0.96 1.19	0.1002	0 0.1	
007	8		165.1		1x(coupling)=0.96	0.23	100	15.4	
						17.98		0.4	
007	8		120.9	3.26		14.37	0.0204	0	
006	8		42.2		1x(us.Tee-Br)=14.37	3.6	100	15	
			,	0.20		12		0.1	
005	8		78.7	3.26		0	0.0092	14.9	
005	8		42.1	3		10.71	100	14.9	
005	8		36.6	3.26		6.71 18.71	0.0022	0 0.0	
003	8		0		1x(us.90)=6.71	12	100	14.9	
						5.76		2.6	
003	8		36.6	1.097		1.77	0.4485	0	
002	8		18.6	1	1x(us.90)=1.77	3.99	100	12.3	
						16.27		2	
S12 002	8 8	5.6	18 18	1.097	1x(us.90)=1.77	14.5 1.77	100 0.1203	10.3 0	

### Path No: 2

S11	8	5.6	18.6	1	1x(us.Tee-Br)=4.43	5	100	11.1	
002	8		18.6	1.097		4.43	0.1283	0	
						9.43		1.2	
002								12.3	

Node 1 Node 2			Flow added (q) Total flow (Q)		Fittings quantity x (name) = length	L F T		total (Pt) elev (Pe) frict (Pf)	
	(ft)	(gpm/psi½)	(gpm)	(in)	(ft)	(ft)	(psi)	(psi)	

### Path No: 3

S10	8	5.6	20.4	1.5		12	100	13.3	
S18	8	5.6	20.4	1.68		0	0.019	0	
						12		0.2	
S18	8	5.6	20.6	1.5	1x(us.Tee-Br)=7.02	1.11	100	13.5	
012	8		41	1.68		7.02	0.0692	0	
						8.13		0.6	
012	8		41.3	3	2x(us.90)=13.42	11.91	100	14.1	
009	8		82.3	3.26		13.42	0.01	0	
						25.32		0.3	
009	8		41.2	3		12	100	14.3	
008	8		123.5	3.26		0	0.0212	0	
						12		0.3	
008	8		41.6	3	1x(us.Tee-Br)=14.37	8.4	100	14.6	
007	8		165.1	3.26		14.37	0.0362	0	
						22.77		0.8	
007					•		•	15.4	

## Path No: 4

S13 009	8 8	5.6	20.7 41.2	1.5 1.68	1x(us.Tee-Br)=7.02	2.63 7.02	100 0.07	13.6 0	
009	0		71.2	1.00		9.64	0.07	0.7 14.3	

# Path No: 5

S9	8	5.6	20.6	1.5		12	100	13.5	
S17	8	5.6	20.6	1.68		0	0.0193	0	
						12		0.2	
S17	8	5.6	20.7	1.5	1x(us.90)=3.51	1.11	100	13.7	
013	8		41.3	1.68		3.51	0.0702	0	
						4.62		0.3	
013	8		0	3		10.04	100	14	
012	8		41.3	3.26		0	0.0028	0	
						10.04		0.0	
012								14.1	

### Path No: 6

S6	8	5.6	20.7	1.5		10.03	100	13.7		
S14	8	5.6	20.7	1.68		0	0.0196	0		
						10.03		0.2		
S14	8	5.6	20.9	1.5	1x(us.Tee-Br)=7.02	2.63	100	13.9		
008	8		41.6	1.68		7.02	0.0711	0		
						9.64		0.7		
008 14.6										

Node 1 Node 2			Flow added (q) Total flow (Q)		Fittings quantity x (name) = length	L F T	C Factor Pf per ft	total (Pt) elev (Pe) frict (Pf)	NOTES
	(ft)	(gpm/psi½)	(gpm)	(in)	(ft)	(ft)	(psi)	(psi)	

### Path No: 7

005								14.9	
						9.64		0.7	
005	8		42.1	1.68		7.02	0.0727	0	
S16	8	5.6	21.1	1.5	1x(us.Tee-Br)=7.02	2.63	100	14.2	
						10.03		0.2	
S16	8	5.6	21	1.68		0	0.02	0	
S8	8	5.6	21	1.5		10.03	100	14	

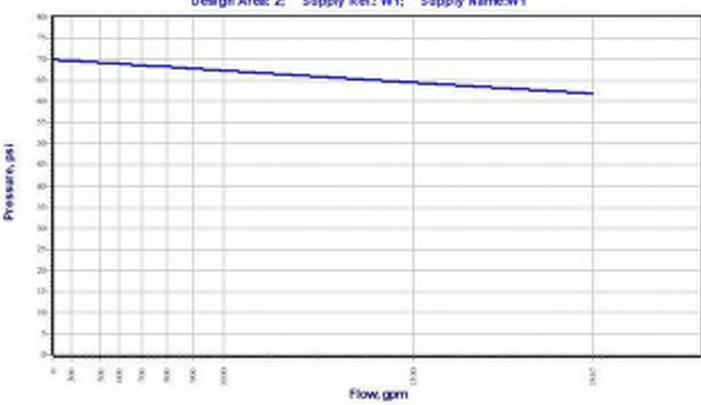
### Path No: 8

S7	8	5.6	21	1.5		10.03	100	14.1	
S15	8	5.6	21	1.68		0	0.0201	0	
						10.03		0.2	
S15	8	5.6	21.2	1.5	1x(us.Tee-Br)=7.02	2.63	100	14.3	
006	8		42.2	1.68		7.02	0.0732	0	
						9.64		0.7	
006 15									

* Pressures are balanced to a high degree of accuracy. Values may vary by 0.1 psi due to display rounding.

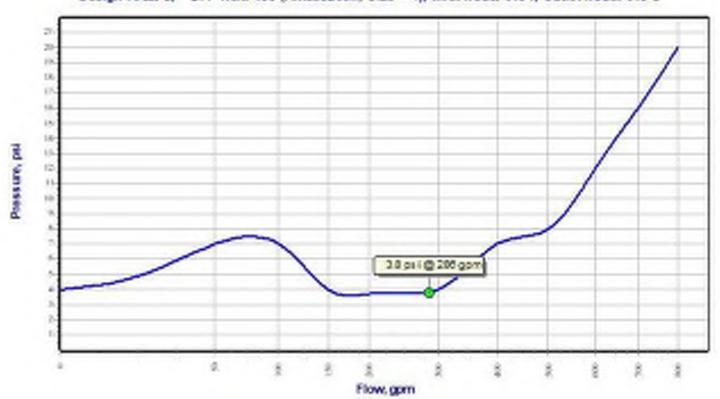
* Maximum Velocity of 12.44 ft/s occurs in the following pipe(s): (003-002)

*** Device pressure loss (gain in the case of pumps) is calculated from the device's curve. If the device curve is printed with this report, it will appear below. The length of the device as shown in the table above comes from the CAD drawing. The friction loss per unit of length is calculated based upon the length and the curve-based loss/gain value. Internal ID and C Factor values are irrelevant as the device is not represented as an addition to any pipe, but is an individual item whose loss/gain is based solely on the curve data.

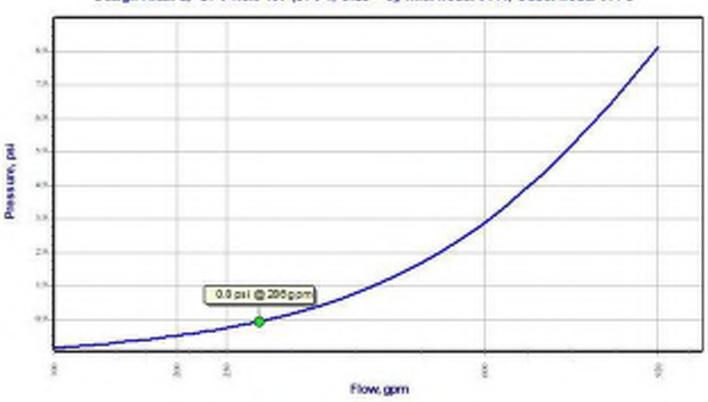


### Pressure vs. Flow Function Design Area: 2: Supply Ref.: W1: Supply Name:W1

Pressure Loss Function Design Area: 2; BFP Ref.: 138 (AmesC200N, Size = 4); Infet Node: 0184; Outlet Node: 018-0



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Pressure Loss Function Design Area: 2: DPV Ref.: 187 (DPV-1, Size = 3); Inlet Node: 0144; Outlet Node: 014-0