LEGAL AID @ BEACON POINT

RALEIGH, NORTH CAROLINA SUITE 206

CONSTRUCTION DRAWINGS FOR BIDDING

MAY 16, 2024

TRC Companies Southeast Raleigh YMCA Beacon Ridge Apartments

LOCATION MAP

DESIGN TEAM

DTW ARCHITECTS & PLANNERS, LTD. ARCHITECTURAL

MECHANICAL EDMONDSON ENGINEERS, P.A. EDMONDSON ENGINEERS, P.A. **PLUMBING** ELECTRICAL EDMONDSON ENGINEERS, P.A. FIRE PROTECTION EDMONDSON ENGINEERS, P.A. STRUCTURAL ROSS LINDEN ENGINEERS PC J&D SPRINKLER COMPANY, INC. FIRE SPRINKLER

SCC INTERIORS INC. INTERIOR DESIGN

DRAWING INDEX

- COVER SHEET/ DRAWING INDEX DATA SHEET
- U.L. DESIGNS EGRESS PLAN FIRST & SECOND FLOORS ACCESSIBILITY SHEET
- OVERALL FLOOR PLAN
 UPFIT FLOOR PLAN/ ENLARGED FLOOR PLANS/ DOOR SCHEDULE UPFIT CEILING PLAN/ INTERIOR ELEVATIONS/ FINISH SCHEDULE
- PLUMBING LEGENDS, NOTES & SCHEDULES
- PLUMBING LEGENDS, NOTES & SCHEDULES
 PLUMBING PLAN MAIN TOILETS
 PLUMBING PLAN BREAK AREA & RESTROOM
 WASTE & VENT RISER DIAGRAMS
 PLUMBING WATER RISER DIAGRAMS
- PLUMBING DETAILS PLUMBING DETAILS
- PLUMBING DETAILS
- MECHANICAL LEGENDS, NOTES & SCHEDULES MECHANICAL DEMOLITION PLAN
- MECHANICAL RENOVATION PLAN PIPING RENOVATION PLAN
- ELECTRICAL NOTES, SCHEDULES & POWER RISER POWER RENOVATION PLAN
- LIGHTING RENOVATION PLAN POWER RENOVATION PLAN - MECHANICAL EQUIPMENT
- FIRE ALARM NOTES & DETAILS FIRE ALARM PLANS
- **NOTES & DETAILS**
- PIPING PLANEAST PIPING PLAN WEST REFLECTED CEILING PLAN

PROJECT DESCRIPTION

THIS PROJECT IS AN INTERIOR UPFIT IN A NEW 2-STORY BUILDING

THE INTERIOR WORK WILL INCLUDE ONE OFFICE SUITE OF 9,871 SF ON THE SECOND FLOOR, INCLUDING A LARGE CONFERENCE ROOM, ONE SMALLER CONFERENCE ROOM WITH COFFEE COUNTER, BREAK ROOM WITH KITCHENETTE, AND A UNISEX RESTROOM.

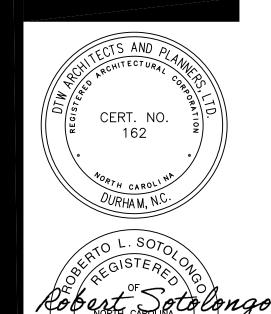
REVIEWERS APPROVAL STAMP:.

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER:





C.D.'s FOR BID

rawn S.O.S. Checked R.L.S.

ote MAY 16, 2024

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS WO-FAMILY DWELLINGS AND TOWNHOUSES)

	.425 PROMISE	E BEAC	ON, SUITE 206,		Zi	
	Agent: ASPEN			hone # (<u>919</u>) <u>313</u> - <u>856</u>	<u>5</u> Email <u>aspen.r</u>	omeyn@self-hel
Owned By: Code Enforcem	ent Jurisdiction:		City/County City <u>RALEIGH</u>		☑ Private ☑ County	
CONTACT:	ROBERT S	SOTOLO	NGO, A.I.A.			
DESIGNER	FIRM	TC 0 DI AA	NAME	LICENSE #	TELEPHONE #	
Architectural Civil	CLH Design	15 & PLAN	NERS R. SOTOLONG S.J. MILLER	30 <u>04837</u> 22625	(919) 317-4020 (919) 319-6716	<u>r.sotolongo@DTW</u> smiller@clhdesign
Civii Electrical	Edmondson Engir	neers, P.A.		028869	(919)544-1936	Dennis@edmpa.co
Fire Alarm	Edmondson Engir			028869	(919)544-1936	Dennis@edmpa.co
Plumbing	Edmondson Engir Edmondson Engir			028862 028862	(919)544-1936 (919)544-1936	Charles@edmpa.c Charles@edmpa.c
Mechanical SprStand.					(<u>313</u>) <u>344-1330</u>	Chanes@edilipa.c
Structural				· · · · · · · · · · · · · · · · · · ·		
Ret. Walls >5' I Other:	High					
(Landscape Ard						
0040 BUIL					re-engineered, interior	_
2018 BUILL	DING CODE:	☐ Add		Shell/Core		Completions
0040 NO E	VICTING DUIL			☐ Phased Construct		☐
(check all that	KISTING BUIL apply)	DING C	ODE:	☐ Prescriptive ☐ Repair	☐ Alteration - Lvl 1☐ Alteration - Lvl 2☐	
				Chapter 14	_	•
CONSTRU	CTED: (date)		CURF	'	h. 3):	
	ED:(date)		PROF	POSED USE(S):	(Ch. 3):	
OCCUPAN	CY CATEGOR	₹Y (Table	1604.5): Current: _		Proposed <u>:</u>	
			BASIC E	BUILDING DATA		
Construction Ty		☐ I-	_	□ III-A □	□V-A	
, e.roon an mat		☐ I-	_	☐ III-B	□ V-B	
Sprinklers:	□No	☐ Pa	artial 🛛 NFPA 13	B ☐ NFPA 13R	☐ NFPA 13D	
Standpipes:	□No	Class		III Wet	Dry	
Primary Fire Di	strict:	□No	Yes	Flood Hazard Area:	□No	Yes
Special Inspect	ions Required:	□No	Yes			
			GROSS BUIL	DING AREA TA	BLE	
FLOOR	EXISTING (SQ	FT)	RENOVATED	(SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor 5th Floor						
4th Floor						
3rd Floor						
3rd Floor 2nd Floor					9,871	9,871
3rd Floor 2nd Floor Mezzanine					9,871	9,871
3rd Floor 2nd Floor Mezzanine 1st Floor Basement					9,871 9,871	9,871 9,871
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL	9,871 SF./ TO	TAL SQ	. FT. IN WHOLE	BUILDING IS 39	9,871	
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL	9,871 SF./ TO	TAL SQ		BUILDING IS 39	9,871	
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS	9,871 SF./ TO				9,871	
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS					9,871	9,871
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa	ancy Classification	(s):	ALLO	WABLE AREA	9,871	9,871
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupation Ass Bus Edu	ancy Classification embly [iness [cational [(s): A-1	ALLO\	WABLE AREA □ A	9,871	9,871
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac	ancy Classification embly [iness [cational [(s): A-1 M F-1 Mo	ALLOV A-2 oderate	WABLE AREA □ A	9,871 9,976.	9,871 -4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz	ancy Classification embly [iness [cational [tory [ardous [(s): A-1 A-1 F-1 Mo H-1 De	ALLON A-2 oderate F-2 otonate H-2	NABLE AREA ☐ A- Low Deflagrate ☐ H	9,871 9,976. -3	9,871 -4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst	ancy Classification embly [iness [cational [(s): A-1 M F-1 Mo	ALLOV A-2 oderate	WABLE AREA □ A	9,871 9,976. -3	9,871 -4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst	ancy Classification embly [iness [cational [tory [ardous [itutional [(s): A-1 A-1 F-1 Mo H-1 De	ALLOV A-2 oderate F-2 lotonate H-2 I-2	NABLE AREA ☐ A- Low Deflagrate ☐ H	9,871 9,976. 3	9,871 -4
Primary Occupa Ass Bus Edu Fac Haz Inst I-3 (ancy Classification embly [iness [cational [tory [ardous [Condition [Condition [Condition [Condition [Condition [(s): A-1 A-1 F-1 Mo H-1 De	ALLOV A-2 oderate F-2 etonate H-2 1-2 2	WABLE AREA A- Low Deflagrate	9,871 9,976. 3	9,871 4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 a I-2 a Mer	ancy Classification embly [iness [tory [ardous [tutional [Condition [Con	(s): A-1 F-1 Mo H-1 De I-1 1 1	ALLOV A-2 oderate F-2 otonate H-2	WABLE AREA A- Low Deflagrate	9,871 9,976. 3	9,871 -4 Health
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 I-2 I-3 Mer Res	ancy Classification embly [iness [cational [tory [ardous [Condition [Condition [Condition [cantile [idential []	(s): A-1 F-1 Mo H-1 De I-1 1 1 R-1	ALLOV A-2 A-2 Actionate F-2 I I-2 2 2 2 R-2	VABLE AREA A- OW Deflagrate	9,871 9,871 9,976. 3	9,871 -4 Health
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 I-2 I-3 Mer Res	ancy Classification embly [iness [cational [tory [ardous [Condition [Condition [Condition [cantile [idential [cage [cational [candidation [cantile [candidation [candidat	(s): A-1 A-1 F-1 Mc H-1 De I-1 1 1 1 R-1 S-1 Mc	ALLOV A-2 A-2 Actionate F-2 I I-2 2 2 2 R-2	VABLE AREA A- OW Deflagrate	9,871 9,871 9,976. 3	9,871 -4 Health
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst I-3: Mei Res Stor	ancy Classification embly [iness [cational [tory [ardous [Condition [Condition [Condition [cantile [idential [cage [cational [candidation [cantile [candidation [candidat	(s): A-1 F-1 Mo H-1 De I-1 1 1 R-1	ALLOV A-2 A-2 A-2 A-2 A-2 A-2 A-2 A-	VABLE AREA A- OW Deflagrate	9,871 9,871 9,976. 3	9,871 -4 Health
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 I-2 I-3 Mer Res Stool	ancy Classification embly [iness [cational [tory [ardous [Condition [Condition [Condition [cantile [idential [rage [ity and Misc. [(s): A-1 F-1 Mo H-1 De I-1 1 R-1 R-1 S-1 Mo Open	ALLOV A-2 Adderate F-2 betonate H-2 1-2 2 2 2 R-2 oderate S-2 Encl	VABLE AREA OW Deflagrate	9,871 9,871 9,976. 3	9,871 4 A-6 4 Health H-6 4 Health H-6 4 Health H-6
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst I-3: I-3: Wee Res Stoil Accessory Occ Incidental Uses	ancy Classification embly [iness [cational [tory [ardous [condition [Condition [cantile [idential [rage [ity and Misc. [upancies Classifica (Table 509):	(s): A-1 F-1 Mo H-1 De I-1 1 R-1 S-1 Mo Open attion(s):	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-2 A-	VABLE AREA A- LOW Deflagrate	9,871 9,871 9,976. 3	9,871 4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst I-3: Mer Res Stoi Util Accessory Occ Incidental Uses This	ancy Classification embly [iness [cational [tory [ardous [itutional [Condition [Condition [cantile [idential [rage [ity and Misc. [upancies Classification [CTable 509): [separation is not experied [and the condition [cantile [can	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-3 A-2 A-1 A-2 A-2 A-2 A-2 A-3 A Non-separated Use	A- OW Deflagrate	9,871 9,976. 3	9,871 -4 Health
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 I-3 Mei Res Stoi Util Accessory Occ Incidental Uses This Special Uses (C	ancy Classification embly [iness [cational [tory [ardous [itutional [Condition [Condition [cantile [idential [idential [ity and Misc. [upancies Classifica (Table 509): separation is not ecceptation.	(s): A-1 A-1	ALLOV A-2 Adderate F-2 I etonate H-2 1-2 2 2 2 R-2 oderate S-2 I Encl. A-2, A-3 a Non-separated Uses):	A-OW Deflagrate	9,871 9,871 9,976. 3	9,871 4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst I-3: I-4: I-3: Mei Res Stoi Util Accessory Occ Incidental Uses This Special Uses (C	ancy Classification embly [iness [cational [tory [ardous [condition [Condition [Condition [cantile [idential [rage [ity and Misc. [upancies Classification [Chapter 4 - List Coopers (Chapter 5 - Lietocopes [cons (Chapter 5 - Lietocopes	F-1 Mo H-1 De I-1 I S-1 Mo Open ation(s): exempt as de Section st Code Se	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Use s): ections): and allon A-2 A-2 B-2 B-2 B-2 B-2 B-3 B-1 B-2 B-2 B-3 B-3 B-3 B-3 B-4 B-1 B-1 B-1 B-1 B-1 B-1 B-2 B-1 B-1	A- OW Deflagrate	9,871 9,976. 3	9,871 4 A-9 4 Health H-9 4 Health H-9 4 Hearking Garage
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 I-3 Mei Res Stoi Util Accessory Occ Incidental Uses This Special Uses (C	ancy Classification embly [iness [cational [tory [ardous [condition [Condition [Condition [cantile [idential [rage [ity and Misc. [upancies Classification [Chapter 4 - List Coopers (Chapter 5 - Lietocopes [cons (Chapter 5 - Lietocopes	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Use s): ections): and allon A-2 A-2 B-2 B-2 B-2 B-2 B-3 B-1 B-2 B-2 B-3 B-3 B-3 B-3 B-4 B-1 B-1 B-1 B-1 B-1 B-1 B-2 B-1 B-1	A-OW Deflagrate	9,871 9,976. 3	9,871 4 A-9 4 Health H-9 4 Health H-9 4 Hearking Garage
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 I-2 I-3 Mei Res Stoi Util Accessory Occ Incidental Uses This Special Uses (C Special Provision Mix Occupancy	ancy Classification embly [iness [cational [tory [ardous [condition [Condition [Condition [cantile [idential [rage [ity and Misc. [upancies Classification [Chapter 4 - List Coopers (Chapter 5 - Lietocopes [cons (Chapter 5 - Lietocopes	F-1 Mo H-1 De I-1 I S-1 Mo Open ation(s): exempt as de Section st Code Se	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Use s): ections): and allon A-2 A-2 B-2 B-2 B-2 B-2 B-3 B-1 B-2 B-2 B-3 B-3 B-3 B-3 B-4 B-1 B-1 B-1 B-1 B-1 B-1 B-2 B-1 B-1	A- OW Deflagrate	9,871 9,976. 3	9,871 4 A-9 4 Health H-9 4 Health H-9 4 Hearking Garage
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup Ass Bus Edu Fac Haz Inst I-3 i I-2 i I-3 i Mei Res Stoil Accessory Occ Incidental Uses This Special Uses (C Special Provision Mix Occupancy Non-separate Separate	ancy Classification embly [iness [cational [tory [ardous itutional [Condition [Condition [Condition [cantile idential [rage [ity and Misc. [upancies Classification is not expanded to the cons (Chapter 4 - List Coopins (Chapter 5 - List Coopi	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Uses s): ections): Yes ellow for area ca	A- OW Deflagrate	9,871 9,976. 3	9,871 4 A-9 4 Health H-9 4 Health H-9 Exception:
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup Ass Bus Edu Fac Haz Inst I-3: I-3: I-4: I-3: Inst Inst I-3: Inst Inst I-3: Inst Inst Inst Inst Inst Inst Inst Inst	ancy Classification embly [iness [cational [tory [ardous itutional [Condition [Condition [Condition [cantile idential [rage [ity and Misc. [upancies Classification is not expanded to the cons (Chapter 4 - List Coopins (Chapter 5 - List Coopi	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-2 A-	A- OW Deflagrate	9,871 9,976. 3	9,871 4 A-5 4 Health H-5 4 Health H-5 Exception:
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup Ass Bus Edu Fac Haz Inst I-3: I-3: I-4: I-3: Inst Inst I-3: Inst Inst I-3: Inst Inst Inst Inst Inst Inst Inst Inst	ancy Classification embly [iness [cational [tory [ardous itutional [Condition [Condition [Condition [cantile idential [rage [ity and Misc. [upancies Classification is not expanded to see [Chapter 4 - List Coopers (Chapter 5 - List coopers (Chapter 5 - List coopers (South South Sout	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-2 A-	A- OW Deflagrate	9,871 9,976. 3	9,871 4 A-5 4 Health H-5 4 Health H-5 Exception:
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occupa Ass Bus Edu Fac Haz Inst I-3 I-2 I-3 Men Res Ston Util Accessory Occ Incidental Uses This Special Uses (C Special Provision Mix Occupancy Non-separa Separate shall be s floor area	ancy Classification embly [iness [cational [tory [ardous itutional [Condition [Condition [Condition [cantile idential [rage [ity and Misc. [upancies Classification is not expanded to see [Chapter 4 - List Coopers (Chapter 5 - List coopers (Chapter 5 - List coopers (South South Sout	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Use s): Coctions): Actual Area Actual Area	A- OW Deflagrate	9,871 9,976. 3	9,871 4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup. Ass Bus Edu Fac Haz Inst I-3: I-2: I-3: Men Res Stool Util Accessory Occ Incidental Uses This Special Uses (C Special Provision Mix Occupancy Non-separa Separate shall be s floor area Actual Area	ancy Classification embly [iness	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-3 ANON-separated Uses s): Cections): A-2, A-3 A Non-separated Uses ship and the properties of the pot exceed 1.	OW Deflagrate	9,871 9,976. 3	9,871 4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst I-3: I-2: I-3: Men Res Stoo Util Accessory Occ Incidental Uses This Special Uses (C Special Provision Mix Occupancy Non-separa □ Separate shall be s floor area Actual Area	ancy Classification embly [iness [cational [tory [ardous [itutional [Condition [Condition [Condition [cantile [idential [rage [ity and Misc. [upancies Classifica (Table 509): separation is not echapter 4 - List Coopers (Chapter 5 - L	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-2 A-3 ANON-separated Uses s): Cections): A-2, A-3 A Non-separated Uses ship and the properties of the pot exceed 1.	A-OW Deflagrate	9,871 9,976. 3	9,871 4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst I-3: I-2: I-3: Mer Res Stoo Util Accessory Occ Incidental Uses This Special Uses (C Special Provision Mix Occupancy Non-separa Separate shall be s floor area Actual Area	ancy Classification embly [iness [cational [tory [ardous [itutional [Condition [Condition [Condition [cantile [idential [rage [ity and Misc. [upancies Classifica (Table 509): separation is not echapter 4 - List Coopers (Chapter 5 - L	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Use s): Comparison of the ot exceed 1. Actual Area Allowable Area	A-OW Deflagrate	9,871 9,976. 3	9,871 -4 Health
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occup: Ass Bus Edu Fac Haz Inst I-3: I-2: I-3: Mer Res Stoo Util Accessory Occ Incidental Uses This Special Uses (C Special Provision Mix Occupancy Non-separa Separate shall be s floor area Actual Area	ancy Classification embly [iness	FTION A-1 A-1 A-1 A-1 A-1 A-1 A-1 A-	ALLON A-2 A-2 A-2 A-2 A-3 A-2, A-3 ANON-separated Uses s): Cotions): Actual Area Allowable Area (A)	A-LOW Deflagrate H I I-LOW Deflagrate Reflections Reflections For ear actual floor area and of Occupancy B are of Occupancy B a	9,871 9,976. 3	9,871 4
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occuping Ass Bus Edu Fac Haz Inst I-3: I-3: I-4: I-3: I-5: I-5: Incidental Uses This Special Uses (C Special Provision Mix Occupancy Incidental Uses Special Uses (C Special Provision Mix Occupancy Incidental Uses This Special Uses (C Special Provision Actual Area Allowable Are	ancy Classification embly [iness 2] cational [condition 2] Condition [condition 3] Condition [condition 4] cantile [condition 5] cantile [condition 6] cantile 6] chapter 4 - List Coopers (Chapter 4 - List Coopers (Chapter 5 - List Coopers (Ch	FTION A-1 A-1 A-1 A-1 A-1 A-1 A-1 A-	ALLON A-2 A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Uses s): ections):	A- OW Deflagrate	9,871 9,871 9,976. 3	9,871 4 Health H-5 4 Health H-5 Exception: Exception: of the occupar ded by the allow Allowable AREA PER STORY
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occuping Ass Bus Edu Fac Haz Inst I-3: I-3: I-4: I-3: I-5: I-5: Inst I-3: I-4: Inst I-3: I-5: Inst I-3: I-4: Inst I-3: Inst Inst I-3: Inst Inst Inst Inst Inst Inst Inst Inst	ancy Classification embly [iness	FTION A-1 A-1 A-1 A-1 A-1 A-1 A-1 A-	ALLON A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Uses s): Cections): A-2 Yes Coderate Actual Area Allowable Area Allowable Area Allowable Area	A- OW Deflagrate	9,871 9,976. 3	9,871 -4 Health
3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL * UPFIT IS Primary Occuping Ass Bus Edu Fac Haz Inst I-3: I-3: I-4: I-3: I-5: I-5: Inst I-3: I-4: Inst I-3: I-5: Inst I-3: I-4: Inst I-3: Inst Inst I-3: Inst Inst Inst Inst Inst Inst Inst Inst	ancy Classification embly [iness	(s): A-1 A-1	ALLON A-2 A-2 A-2 A-2 A-3 A-2, A-3 A-2, A-3 ANON-separated Uses s): Cotions): Cotions): A-2, A-3 Allowable Are Allowable Are CAN BLDG. AREA PER STORY	A- OW Deflagrate	9,871 9,871 9,976. 3	9,871 -4 Health

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1, 5}	(D) ALLOWABLE AREA PER STORY O UNLIMITED ^{2, 3}
1	ASSEMBLY 2/3*	20,138	38,000		66,500
2	ASSEMBLY 2/3*	19,838	38,000		66,500

- 1. Frontage area increases from Section 506.2 are computed thus:
- a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F) b. Total Building Perimeter = _____(P)
 c. Ratio (F/P) = _____(F/P)
 d. W = Minimum width of public way = _____(W)
 2. Unlimited area applicable under conditions of Sections 507.

- 3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2). 4. The maximum area of open parking garages must comply with Table 406.5.4. The maximum area
- of air traffic control towers must comply with Table 412.3.1. 5. Frontage increase is based on the unsprinklered area value in Table 506.2.

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
lding Height in Feet (Table 504.3)	75'	31'	504.4
lding Height in Stories (Table 504.4)	3	2	504.3

ALLOWABLE HEIGHT

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION	RATING		DETAIL# AND	DESIGN# FOR	SHEET# FOR	SHEET FOR
	DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	SHEET#	RATED ASSEMBLY	RATED PENETRATION	RAT JOIN
Structural Frame, Including Columns, Girders, Trusses		0					
Bearing walls		0					
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions		0					
Exterior							
North							
East							
West							
South							
Interior walls and partitions							
Floor construction Including supporting beams and joists Floor Ceiling Assembly		0					
Columns Supporting Floors		0	+				
Roof construction Including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shafts Enclosures - Exit		1	1	T2	UL #U419		
Shafts Enclosures - Other		1	1	T2	UL #W469		
Corridor Separation		0					
Occupancy/Fire Barrier Separation		NA					
Party/Fire Wall Separation		NA					
Smoke Barrier Separation		NA					
Smoke Partition		NA					
Tenant/Dwelling Unit/ Sleeping Unit Separation		NA					
Incidental Use Separation		NA					

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
OVER 30'			

	LIIL SAILII S	131 LIVI NEQUINEIVIE
Emergency Lighting:		□ No
Exit Signs:		□ No
Fire Alarm:		□ No
Smoke Detection Systems:		□ No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: ____T3

Carbon Monoxide Detection:

- Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan).
- Exterior wall opening area with respect to distance to assumed property lines (705.8) *

☐ Yes No

- Occupancy Use for each area as it relates to occupancy load calculations (Table 1004.1.2) *
- Occupant loads for each area
- Exit access travel distances (1017)
- Common path of travel distances [Table 1006.2.1 & 1006.3.2(1)]
- Dead end lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is
- provided for purposes of occupancy separation
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) N/A
- Location of doors with electromagnetic egress locks (1010.1.9.9) N/A
- Location of doors equipped with hold-open devices N/A
- Location of emergency escape windows (1030) N/A
- The square footage of each fire area (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) N/A
- Note any code exceptions or table notes that may have been utilized regarding the items above

*THERE ARE NO OTHER BUILDINGS WITHIN 60' OF THIS BUILDING.

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
			()				

ACCESSIBLE PARKING

(SECTION 1106)

	TOTAL # OF PA	ARKING SPACES	# OF AC			
				VAN SPA	CES WITH	TOTAL #
LOT OR PARKING AREA	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	ACCESSIBLE PROVIDED
IULTI-TENANT BLDG	114 SPACES	114 SPACES	3		2	5
ANK BLDG	7 SPACES	8 SPACES			2	2
OTAL	121 SPACES	122 SPACES	3		4	7

PLUMBING FIXTURE REQUIREMENTS

	(TABLE 2902.1)										
USE		WATER CLOSETS		URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS		
		Male Female Unisex				/TUBS	REGULAR	ACCESSIBLE			
SPACE	EXISTING										
	NEW	1*	2*	1*	1*	2*	2*	1*	0	2	2
	REQUIRED										

*PUBLIC TOILETS FOR SECOND FLOOR BUSINESS OCCUPANCIES SHOWN/ ONE ADDITIONAL CONVENIENCE UNISEX TOILET IN THIS SUITE. (FIRST FLOOR TENANTS HAVE PLUMBING FIXTURES IN THEIR SUITES.)

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below) CITY OF RALEIGH SITE PLAN APPROVAL #ASR-0023-2021 CITY OF RALEIGH SITE CONSTRUCTION DRAWING APPROVAL

ENERGY SUMMARY

NOTE: INFORMATION FOR EXISTING BUILDING SHELL.

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design versus the annual energy cost for the proposed design.

Existing building envelope complies with code: (If checked, the remainder of this section is not applicable.) **Exempt Building:** Provide code or statutory reference: _____

•	
Climate Zone:	☐ 3A 🔀 4A 🗌 5A
Method of Con	pliance:
Energy Code:	Performance Prescriptive
ASHRAE 90.1:	Performance Prescriptive
Other:	Performance (specify source)

THERMAL ENVELOPE: (Prescriptive method only)

THE RIVING ENVIOLENCE OF E. WHO	onparo modica omj
Roof/Ceiling Assembly (each	assembly)
Description of assembly	SINGLE PLY MEMBRANE WITH RIGID INSULATION

U-Value of total assembly _ R-Value of insulation ____ Skylights in each assembly _____ U-Value of skylight _ Total square footage of skylights in each assembly ____

Exterior Walls (each assembly)

Exterior Walls (each assemb	lly)
Description of assembly	METAL STUDS WITH R-19 BATT INSULATION AND R-13 CONT. CAVITY INSULATION
U-Value of total assembly	U=.032
R-Value of insulation	R-32 TOTAL
Openings (windows or doors wit	h glazing)
U-Value of assembly	20 MINITED NICHT - 20 CHMMED DAV
Solar heat gain coefficient	
Projection factor	
Door R-Values	U=.28

Walls below grade (each assembly) N/A

U-Value of total assembly
R-Value of insulation

Description of assembly ____

Floors over unconditioned space (each assembly) N/A

Description of assembly _____ R-Value of insulation _____

Slab heated _

Floors slab on grade	
Description of assembly _	
U-Value of total assembly _	
R-Value of insulation	R-15 PERIMETER RIGID INSULATION 36" WIDE AT PERIMETER
Horizontal/vertical requirem	ent

DESIGN LOAD

NDS:		
	Importance Factors:	Wind (I _W) <u>1.0</u>
		Snow (I _S) <u>1.0</u>
		Seismic (I _E) <u>1.0</u>
	Live Loads:	Roof <u>20</u> psf
		Mezzanine <u>N/A</u> psf
		Floor 50 psf (OFFICE)
	Ground Snow Load:	psf
	Wind Load:	Basic Wind Speed115 mph (ASCE
		Exposuro Catagory B

STRUCTURAL DESIGN (FOR SHELL BUILDING)

SEISMIC DESIGN CATEGORY: Provide the following Seismic Design Parameters: Occupancy Category (Table 1604.5)

S_S <u>0.154</u> %g S₁ <u>0.077</u> %g Spectral Response Acceleration \square A \square B \boxtimes C \square D \square E \square F Site Classification (ASCE 7) Field Test Presumptive Historical Data Data Source: Basic structural system (check one) ☐ Dual w/Special Moment Frame Bearing Wall ■ Building Frame Dual w/Intermediate R/C or Special Steel

☐ Inverted Pendulum Analysis Procedure: Simplified Equivalent Lateral Force Dynamic Architectural, Mechanical, Components anchored?

Seismic base shear: $Vx = \underline{44.0 \text{ k}}$ $Vy = \underline{44.0 \text{ k}}$ LATERAL DESIGN CONTROL:

Earthquake

SOIL BEARING CAPACITIES: Field Test (provide copy of test report) 4,000 psf Presumptive Bearing capacity _____ psf Pile size, type, and capacity _____

MECHANICAL SUMMARY (Also found on M 0.1)

Winter dry bulb _	16° F	
Summer dry bulb	90° F	

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Summer dry bulb ______75° F Relative humidity ______50 % Building heating load

Building cooling load 1158.4 MBH Mechanical Spacing Conditioning System

Description of unit PACKAGED ROOFTOP DX VAV UNITS Heating efficiency ELECTRIC HEATING COILS Cooling efficiency _____11.0 EER Size category of unit (3) > 65,000 BTUH

Size category. If oversized, state reason. Size category. If oversized, state reason.

List equipment efficiencies VARIES - SEE EQUIPMENT SCHEDULES

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance Energy Code: Prescriptive Performance

ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type) Lamp type required in fixture - See Fixture Schedule on Electrical Plans Number of lamps in fixture - See Fixture Schedule on Electrical Plans

Number of ballasts in the fixture - See Fixture Schedule on Electrical Plans Total wattage per fixture - See Fixture Schedule on Electrical Plans Total interior wattage specified vs. allowed - 4,808W vs. 31,254W

Total exterior wattage specified vs. allowed - 475W vs. 1,320W

Ballast type used in the fixture - See Fixture Schedule on Electrical Plans

Additional Prescriptive Compliance

506.2.1 More Efficient Mechanical Equipment 506.2.2 Reduced Lighting Power Density 506.2.3 Energy Recovery Ventilation Systems 506.2.4 Higher Efficiency Service Water Heating

506.2.5 On-site Supply of Renewable Energy

506.2.6 Automatic Daylighting Control Systems

ABBREVIATIONS

@	at	LAM.	laminate
ALT.	alternate	LAV.	lavatory
ALUM.	aluminum	LTL.	lintel
APPR.	approximate	LT. WT.	light weight
BD.	board	MAG.	magnetic
BLDG.	building	MAS.	masonry
B.U.R.	built up roof	MAX.	maximum
C.J.	control joint	MECH.	mechanical
CLG.	ceiling	MIN.	minimum
CLR.	clear	M.O.	masonry opening
C.M.U.	concrete masonry unit	M.R.	moisture resistant
COL.	column	M.T.	metal threshold
CONC.	concrete	MTL. or MET.	metal
CONT.	continuous	N.I.C.	not in contract
CONTR.	contractor	N.T.S.	not to scale
C.T.	ceramic tile	O.C.	on center
DIM.	dimension	OPN'G	opening
DN.	down	OPP.	opposite
DS.	downspout	PART'N.	partition
DWG.	drawing	PL.	plate
EA.	each	PLYW'D.	plywood
E.J.	expansion joint	PREFIN.	pre-finish
EL. or ELEV.	elevation	PT.	point
ELEC.	electrical	PWR.	power
EQ.	equal	R.A.G.	return air grill
E.W.C.	electric water cooler	R.D.	roof drain
EXIST.	existing	REF.	reference
EXP.	expansion	REINF.	reinforced
F.D.	floor drain	REQ'D.	required
FIN.	finish	RM.	room
FL.	floor	RW. L.	rainwater leader
F.O.B.	face of brick	SIM.	similar
F.O.C.	face of concrete	S. STL.	stainless steel
F.O.M.	face of masonry	STL.	steel
GA.	gauge	STRUCT.	structural
GALV.	galvanized	SUSP.	suspended
G.B.	grab bar	TH'LD.	threshold
GL.	glass	TYP.	typical
GYP.	gypsum	V.C.T.	vinyl composition ti
H.M.	hollow metal	V.I.F.	verify in field
LIT		1/14/0	

V.W.C.

RIGID

vinyl wall covering

SYMBOLS AND NOTATIONS

insulation

INSUL.

NAME 000	AREA NAME AREA NUMBER		CONCRETE MASONRY
00	DOOR TYPE OR NUMBER		BRICK
0 A0	DRAWING NUMBER SHEET NUMBER		CONCRETE
O AO	ELEVATION NUMBER & DIRECTION OF VIEW SHEET NUMBER		PLYWOOD
0	SECTION NUMBER & DIRECTION OF VIEW		FINISH WOOD
AO	SHEET NUMBER	·*************************************	BATT INSULATION

SHEET NUMBER COLUMN LINE NUMBER

EOUIPMENT TYPE OR NUMBER CASEWORK TYPE

OR NUMBER

Planners, Ltd 3333 Durham-Chapel Hill Blvd Suite D-100 Durham, NC 27707

C.D.'s FOR BID

919.317.4020

rawn S.O.S. Checked R.L.S.

visions

^{ate} MAY 16, 2024

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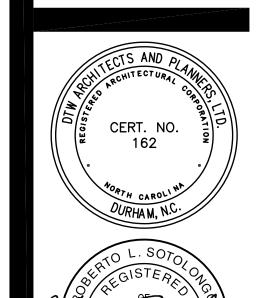
to the architect.

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER:

20015E



FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV) FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV) 1451 Members" - Steel Studs - Not shown - In lieu of Iten prietary channel shaped steel studs, minimum width indicated fer Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare kness) galvanized steel. Studs 3/8 in. to 3/4 in. less in heelat interval and the search seems to be seem to be seems to be 2-1/2 1 layer, 1/2 in. 1-1/2 in. 1-5/8 1 layer, 3/4 in. Optional 1-5/8 2 layers, 1/2 in. Optional Framing Members*— Steel Studs — (Not shown, As an alternate to ltem 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. 1-5/8 2 layers, 5/8 in. Optional 3-1/2 1 layer, 3/4 in. 3 in. s than assembly height.
TELLING INDUSTRIES L.L.C.—TRUE-STUDIN 1-5/8 3 layers, 1/2 in. Optional 1-5/8 2 layers, 3/4 in. Optional thick
1-5/8 3 layers, 5/8 in. Optional thick
1-5/8 4 layers, 5/8 in. Optional thick
1-5/8 4 layers, 1/2 in. Optional thick te assembly height and installed with a ½ in, gap between the end the stud and track at the bottom of the wall. For direct attachmen 1-5/8 4 layers, 1/2 in. thick
2-1/2 2 layers, 3/4 in. 2 in. thick Framing Members* - Metal Studs — Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated onder Item 5, spaced a max if 24 in. OC, fabricated from min 0,020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than in: thick gard steel. Studs cut 3/0 in. to 3/4 in. tess in lengths than assembly heights

TELLING INDUSTRIES L L C —Viper20³³

Framing Members*—Steel Studs — As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5. spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB MéTAL INC —EB Stud
Framing Members'— Steel Studs — As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

OLMAR SUPPLY INC —PRIMESTUD
Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only.) (Not Shown) – 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Verfical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flath-head self-drilling tapping screws with a min, head diam of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in. for gypsum panels increased by min. 1/2 in. Batts and Blankets' — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom teral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZ/Z) Categories for names of Classified companies.

Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification marking as to Surface Burpine Characteristics and Jee Fine Positioners. Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Batts and Blankets* — Placed in stud cavities, any 3-1/2 in. thick to be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP—Type R8-LBG

Gypsum Board*— (For Use With Item 2B) Rating Limited to 1 Ho 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application—The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one and cavity on opposite sides of studs. (Horizontal Application)—The ypsum board is to be installed on each side of the studs with 1 in. ng Type S coated steel screws spaced 8 in. OC starting 4 in. from face Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal but joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 1 hr ratings are as follows:

LOOK FOR THE UL MARK ON PRODUCT

hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

NEW ENGLAND LEAD BURNING CO INC, DBA

NELCO—Nelco

FE Gypsum Board*— (As an alternate to item 5)— For use with Items

1E and 2E and limited to 1 Hour Rating only, Gypsum parels with
beveled, square or tapered edges, applied vertically, and fastened to the
steel studs with 1 in. long Type 5 screws spaced 8 in. OC along vertical
and bottom edges and 12 in. OC in the field. Vertical joints centered
over studs and staggered one stud cavity on opposite sides of studs.

Steel stud depth shall be a minimum 3-5/8 in. thick Type SCX, SGX.

UNITED STATES GYPSUM CO —5/8 in. thick Type SCX, SGX.

5G. Gypsum Board*— (As an alternate to Item 5)— For use with Items

1E and 2E only, Gypsum panels with beveled, square or tapered edges,
applied vertically or horizontally, as specified in the table below and
fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity no opposite sides of
studs. Vertical joints in adjacent layers (multilayer systems) staggered
one stud cavity. Horizontal joints need not be backed by steel framing.
Horizontal edge joints and horizontal butt joints on opposite sides of
studs need not be staggered. Horizontal edge joints and horizontal butt
joints in adjacent layers (multilayer systems) staggered a min of 12 in.

The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratines CGC INC —1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHY WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2 IPC-AR or WRC; 5/8 in. thick Type SCX, SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in: thick Type IP-X9 or ILTRACODE IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-XI, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in: thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — I/2 in. thick Type C, IP-X2, IPC-AR; 6/4 in: thick Type IP-X3 or ULTRACODE

UPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR; IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick), shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick), attached to opposite side of stud without furring channels as described in Item 6.

Cypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly, Secured as described in Item 6.

CGC INC — IVPE SHX.

UNITED STATES CYPSUM CO — Type FRX-G, SHX.

USG MEXICO 5 A DE C V — Type SHX.

USG MEXICO 5 A DE C V — Type SHX.

USG MEXICO 5 A DE C V — Type SHX.

USG MEXICO 5 A DE C V — Type SHX to 1 them 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. hinck products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. hinck products are specified. For direct attachment only to steel studs Item 2A (with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OX at perimeter and 12 in. OX in the field. To be used with Lead Batten Strips (see Item 11) — Item 5 Well and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSC steel studs Item 2A with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OX at perimeter and 12 in. OX in the field. To the seed with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12) — Lea are as follows:
Gypsum Board Protection on Each Side of Wall Min Stud Depth, in. & Thickness Insulation Item 2E 1-5/8 2 layers, 1/2 in. Optional 1-5/8 2 layers, 5/8 in. Optional 1-5/8 3 layers, 1/2 in. Optional 1-5/8 3 layers, 5/8 in. Optional 1-5/8 4 layers, 5/8 in. Optional thick
1-5/8 4 layers, 1/2 in. Optional thick CGC INC -1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO —1/2 in. thick Type C, IP-X2,
IPC-AR or, 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C.,
FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or USTRACODE

USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2,

IPC-AR or, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SFHX, or, 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on flach Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed grysum panels with beveled, square or tapered edges, applied vertically. Vericial joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured

1452 FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

in, from the edge of the board at the center of each board. Gypsum

in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI' of Volume 1 in the Fire Resistive Directory.

CGC INC —Type SCX.

UNITED STATES GYPSUM CO —Type SCX, SGX.

USG MEXICO 5 A DE C V —Type SCX.

5D. Gypsum Board*— (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO—Type USGX.

UNITED STATES GYPSUM CO—Type USGX.

SE. Gypsum Board*— (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3, Nominal 5/8 in. thick lapplied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6 by 1-1/4 in. long Dugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA

gered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG

LOOK FOR THE UL MARK ON PRODUCT

steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws space in. OC at perimeter and 12 in. OC in the field. For Joint Compound Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead met. RSIC-V and RSIC-V (2.75) clips secured to study with No. on the four members of the first state of the first Discs (see Item 12A).

MAYCO INDUSTRIES INC —Type X-Ray Shielded Gypsum
51. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick
gypsum panels with beveled, square or tapered edges installed as
described in Item 5. Steel stud minimum depth shall be as indicated. PAC INTERNATIONAL INC —Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V, 2.75);

B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Item 7, for single or double layer systems, furring channels and Steel Item 7, for single or double layer systems, furring channels and Steel 24 in. OC perpendicular to stude. Channels secured to stude as described in Item b. Batts and Blankets placed in study as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 3A and 3E. 5A and 5E.

Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. try on opposite sides of studs. Wallboard secured to studs with 1.1/s.
in. long 1ype 5-12 steels crows gypsum panel steel screws spaced 8.

Oc at perimeter and 12 in. Oc in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and options remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ilong with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long. Type 5-12 pan head steel screws, one at the top of the strip and one the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.0 in. thick. Compression fitted or adhered over the screw heads. Lead Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

C Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L.201f, Grade "C"

RADIATION PROTECTION PRODUCTS INC —Type RPP escribed below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E. Gypsum board attached to furring channels as described in Inen. Not for use with Item 5A and 5E.:

b. Steel Framing Members' — Used to attach furring channels (Item 7As) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIP Secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members — (Optional, Not Shown)* - Furring channels are friction fitted into clips and resilient sound isolation clip as described below:

a. Furring Channels — Formed of No. 25 MSC galv steel.

Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No.

81/12 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Cypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastered into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.

b. Steel Framing Members' — Resilient sound isolation clip used to attach furring channels (Item 7Da) to studs. Clips spaced 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound isolation clips are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound compound applied in two costs to joints and screw heads of outer layers. Paper tape, now 2 in wide, embedded in first layer of compound wer all joints of outer layers panels. Paper tape and joint compound were all joints of outer layers. Paper tape and joint compound were all joints of outer layers panels. Paper tape and joint compound may be omitted when gyyss long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels or 2-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems First layer 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer - 1-5/8 in. long for 1/2 in. 5/8 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in. 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels or 2-5/8 in. long for 1/2 in. thick panels of 3 in. long for 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels or 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 square edge.

9. Siding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirement of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall lies attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. layer below.

Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG systems). Control.

UNITED STATES GYPSUM CO — Type AS

Lead Batten Strips — (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickne of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan nead steel screws, one at the top of the strip and one at the bottom, the strip. Lead batten strips to have a purity of 99.9% meeting the Sederal specification QO-1.20tf, Grade "C". Lead batten strips to have a purity of 99.9% meeting the Sederal specification QO-1.20tf, Grade "C". Lead batten strips to have a purity of 99.9% meeting the Sederal specification QO-1.20tf, Grade "C". Lead batten strips to have a purity of 99.9% meeting the Sederal specification QO-1.20tf, Grade "C". Lead batten strips to have a purity of 99.9% meeting the Sederal specification QO-1.20tf, Grade "C". Lead batten strips to have a purity of 99.9% meeting the Sederal specification QO-1.20tf, Grade Sederal specification QO-1.20tf, Gr

FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV) FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV) 1453 (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

Al. Lead Batten Strips. — (Not Shown, For Use With Item 514) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. I in. long min. Type 5-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. I in. long min. Type 5-8 pan head steel screws at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. at remaining stud locations.

Lead Discs or Tabs — (Not Shown, For Use With Item 5B) - Used in ed gypsum wallboard (Item 5E) and optional at an joins of each decked system waitocard (teem 5E) and optional at remaining stud locations. For Use With Item 5E) 2 in. wide, 5 in. long with a max litickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary. for jurisdictions employing the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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SELF-HELP BEACON

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC



Suite D-100 Durham, NC 27707

evisions

rawn S.O.S. Checked R.L.S.

BXUV:W469 - Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada | UL Product iQ

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- . When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada sign Criteria and Allowable Variances Design No. W469

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UL Product iQ™

October 02, 2019 Bearing Wall Ratings — 3/4 Hr, 1, 1-1/2, 2 Hr or 3-hr This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be

used — See Guide BXUV or BXUV7 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



11/18/21, 3:04 PM BXUV:W469 - Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada | UL Product iQ 1. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel, that provide a sound structural connection between steel studs and adjacent asset as floors, ceilings and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24

2. Steel Studs — Min 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel studs, min 3-1/2 in, wide, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing shall not exceed 24 in. OC (or 16 in. OC when Item 11 is used). Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications.

B. Lateral Support Members — (Not shown) — Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.

4. Wood Structural Panel Sheathing — (Optional, For use with Item 5, 5A,5B or 5C) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA
Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min, head diam, of 0.292 in, at maximum 6 in, OC, in the perimeter and 12 in, OC, in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in. The maximum

5. Gypsum Board — Gypsum panels with beyeled, square or tapered edges applied vertically. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Outer layer of 3 layer or 4 layer construction may be applied horizontally. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, 2 hr and 3 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

loading on the steel studs was evaluated with the steel studs braced at mid-height and not braced by the plywood sheathing.

Rating	No. of Layers & Thkns of Panel	% of Design Load
45 Min	1 layer, 1/2 in. thick	100
1-1/2 hr	2 layers, 1/2 in. thick	100
2 hr	3 layers, 1/2 in. thick	100
3 hr	4 layers, 1/2 in. thick	100

NATIONAL GYPSUM CO - 1/2 in, thick Type FSW-C, eXP-C, FSMR-C, FSK-C, FSW-G, FSK-G

5A. Gypsum Board — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer system) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and norizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer system) need not be staggered. When used in widths other than 48 in., gypsum panels to be installed horizontally. The thickness and number of layers and percent of design load for the 1 hr and 2 hr ratings are as

Wallboard Protection on Each Side of Wall

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BXUV.W469 - Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada | UL Product iQ No. of Lavers

NATIONAL GYPSUM CO - 5/8 in. thick Type FSLX

NATIONAL GYPSUM CO — Type SBWB

1 layer, 5/8 in. thick 2 layers, 5/8 in. thick 100 NATIONAL GYPSUM CO - 5/8 in, thick Type FSL, FSW, FSK, FSW-3, FSW-5, FSW-6, FSW-C, eXP-C, FSMR-C, FSK-C, FSW-G, FSK-G

Design Load

5B. Gypsum Board - Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical jointscentered over studs and staggered one stud cavity on opposite sides of studs. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. When used in widths other than 48 in., gypsum panels to be installed horizontally, Insulation (Item 7A) required when using Type FSLX for the 1 hour Rating. The thickness and percent of design load is as follows:

Wallboard Protection on Each Side of Wall

Rating	& Thkns of Panel	% of Design Load
1 hr*	1 layer, 5/8 in. thick	100

5C. Gypsum Board* — (As an alternate to Item 5A) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and

5D. Gypsum Board* — As an alternate to Item 5A (1-hr) — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joint46s on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in, long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced

a max 12 in. along the top and bottom edges of the wall. As an alternate to Item 5A (2-Hr) — Four layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. When applied horizontally, base layer secured to studs with 1 in. Type S screws spaced 24 in. OC. Second layer installed with joints offset 12 in. from base layer and secured with 1 in. Type S screws spaced 24 in. OC. Third layer installed with joints in line with base layer and secured with 1-1/2 in Type S crews spaced 16 in. OC. Fourth layer installed with joints in line with second layer and secured with 11-in. Type S crews spaced 12 in. OC. For all layers, screws offset 4 in. from previous layer. When applied vertically, base layer secured with 11-in. Type S screws spaced 24 in. OC. Second layer secured with joints offset one stud cavity and secured with 1 in. Type S screws spaced 24 in. OC. Third layer installed with joints in line with base layer and secured with 1-1/2 in. Type 5 screws spaced 12 in. OC. Fourth layer secured with joints in line with second layer and secured with 1-5/8 in. Type 5 screws spaced 8 in. OC along vertical edges and 12 in. OC in the field. For all layers, screws offset 4 in. from previous layer. NATIONAL GYPSUM CO - 5/16 in. thick Type FSW

6. Fasteners — (Not Shown) — For use with Item 5, 5A, 5B or 5C - Type S-12 steel screws used to attach panels to runners (Item 1) and studs (Item 2) or furring channels (Item 8). https://iq.ulprospector.com/en/profile?e=253295

11/18/21, 3:04 PM BXUV.W469 - Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada | UL Product IQ Single layer systems: 1 in. long, spaced 12 in, OC for 1/2 and 5/8 in. thick panels.

Two layer systems: First layer- 1 in, long, spaced 12 in, OC for 1/2 in, thick panels or spaced 16 in, OC for 5/8 in, thick panels. Second layer - 1-5/8 in. long, spaced 12" OC for 1/2 in. thick panels or spaced 16 in. OC for 5/8 in. thick panels. Three layer system: (1/2 in. thick panels) First layer-1 in. long, spaced 12 in. OC. Second layer-1-5/8 in. long, spaced 12 in. OC. Third Four layer system: (1/2 in, thick panels) First layer - 1 in, long, spaced 48 in, OC. Second layer 1-5/8 in, long, spaced 48* OC. Third layer 2-1/4 in. long, spaced 48 in. OC. Fourth layer 2-5/8 in. long, spaced 12 in. OC. Fourth layer (horizontal applied), 2-5/8 in. long, spaced 12 in. OC and 1-1/2 in. long, Type G, steel screws located midway between studs and 1 in. from horizontal edge joint secured to the second and

7. Batts and Blankets* — (Optional, required when item 10 is used) - Placed in stud cavities, any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance. See Batts and Blankets* (BKNV or BZJZ) Category

7A. Batts and Blankets* — (Required as indicated under Item 5B) — Nom 3-1/2 in. thick glass fiber or mineral wool batts. friction fitted between studs and runners. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified

7B. Fiber. Sprayed* — Not Shown - As an alternate to Batts and Blankets (Item 7) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions U.S. GREENFIBER L.L.C — INS735, INS745 and INS750LD for use with wet or dry application. INS765LD and INS773LD are to be used for

7C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 7) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft3.

7D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 7) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4 30 lbs/ft3 INTERNATIONAL CELLULOSE CORP — Celbar-RL

7E. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 7) — Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the oplication instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

8. Furring Channels — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 panhead steel screws.

8A. Steel Framing Members (Not Shown)* — (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 8, furring channels and Steel Framing Members as described below. a. Furring Channels - Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring https://iq.ulprospector.com/en/profile?e=253295

BXUV:W469 - Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada | UL Product iQ channels as described in Item 6.

when panels are applied horizontally, or 8 bottom edges and 12 in. OC in the field wh cally. Two layer systems: First layer-1 in. 1

FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

b. Steel Framing Members* — Used to attach furring channels (Item 8a) to studs (Item 2). Clips spaced max. 48 in. OC., and secured to study with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into dips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in, wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

8B. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galvsteel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels

b. Steel Framing Members* — Used to attach furring channels to studs (Item 2). Clips spaced max. 48 in. OC., and secured to study with No. 8 x 1-1/2 in, minimum self-drilling, S-12 steel screw through the center grommet. Furring PLITEQ INC — Type GENIECLIP

8C. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below. a. Furring Channels — Formed of No. 25 MSG galv steel, spaced max. 24 in. OC perpendicular to studs. Channels ecured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6.

b. Steel Framing Members* — Used to attach furring channels to studs (Item 2), Clips spaced max. 48 in. OC., and

secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are

friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R 8D. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer

systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galvisteel, spaced max, 24 in, OC perpendicular to study. Channels secured to studs as described in Item 8Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6.

b. Steel Framing Members* — Used to attach furring channels to studs (Item 2). Clips spaced max. 48 in. OC, and secured to studs with No. 8 x 2-1/2 in, coarse drywall screw through the center hole. Furring channels are friction fitted

8E. Steel Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, resilient channels and Steel Framing Members as described below. a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to study as described in Item b. Ends of adjoining channels overlapped 6 in, and secured in place with two No. 8 15 \times 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5.

b. Steel Framing Members* — Used to attach resilient channels (Item 8Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to https://ig.ulprospector.com/en/profile?e=253295

11/18/21, 3:04 PM BXUV.W469 - Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada | UL Product iQ clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

9. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in, wide, embedded in first layer of compound over all joints of outer layers. Paper tape and joint compound may be omitted in the four layer system (3 hour) or when gypsum boards are supplied with square

10. Siding, Brick or Stucco — (Optional, Not Shown, for use as an additional layer over gypsum board) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

1. Cementitious Backer Units* — (Optional, Item Not Shown - For Use On Face Of 1 Hr Or 2 Hr Systems With All Standard Items Required) = 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a ninimum of 3/8 in. for steel framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing. NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

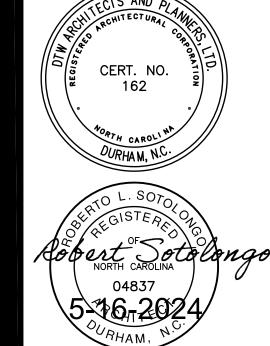
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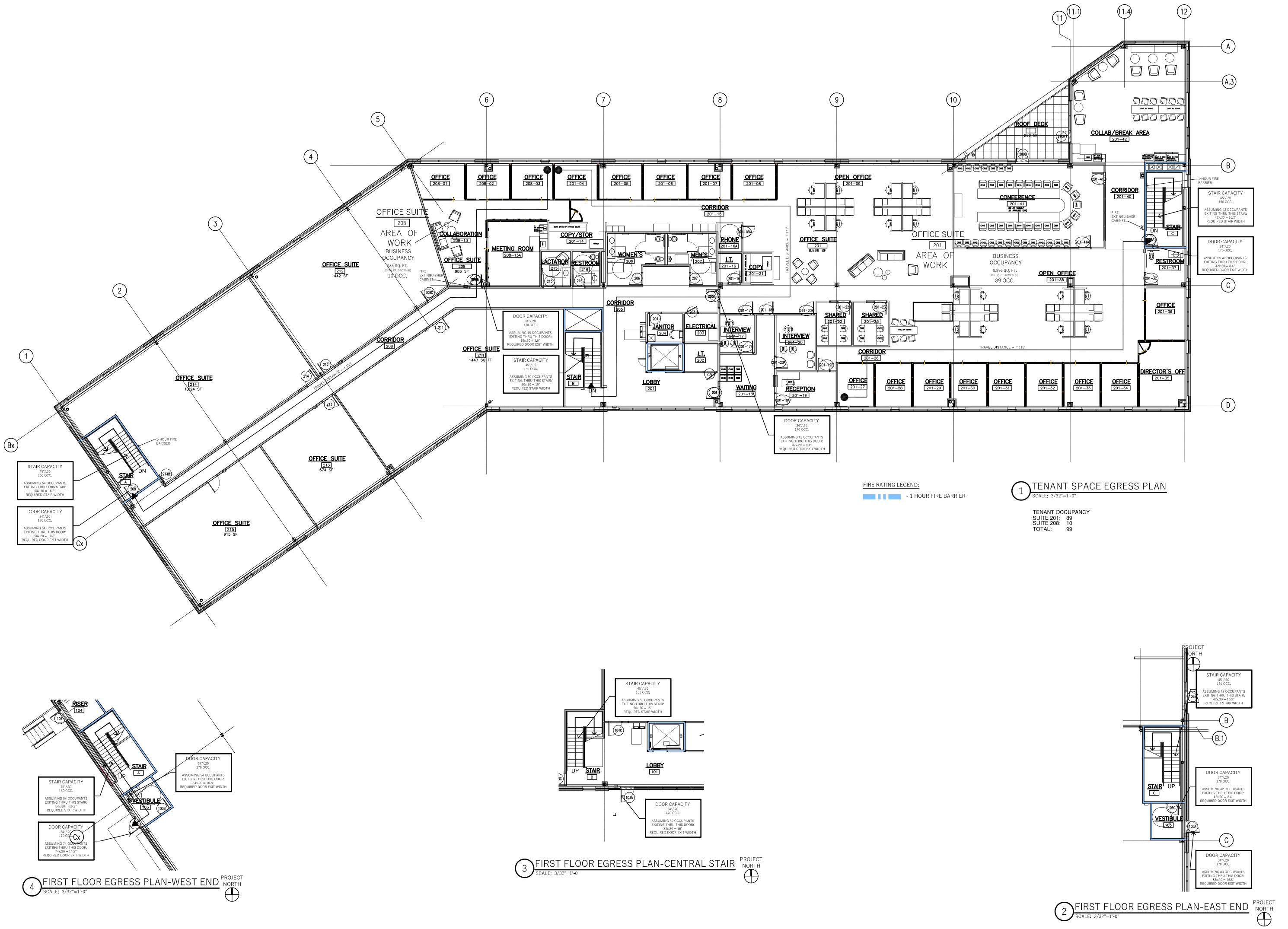
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C.D.'s FOR BID

^{ate} MAY 16, 2024



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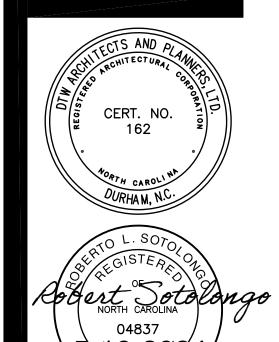
GRESS PLANS

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER: 20015E





C.D.'s FOR BID

evisions

Drawn S.O.S.
Checked R.L.S.

Sheet MAY 16, 2024

T3

REF.

REQUIRED CLEARANCES IN KITCHEN & KITCHENETTES

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

NOTE: SIGNAGE TO BE LOCATED ON LATCH SIDE OF DOOR.

& WIDTH OF CHARACTERS, SPACING, ETC. AND INFORMATION ABOUT OTHER SIGN TYPES) ARE INCLUDED

IN CHAPTER 7 OF ICC A117.1-2009.

OTHER SIGNAGE REQUIREMENTS (HEIGHT

B PASS-THROUGH KITCHEN: COUNTERS & EQUIPMENT ALONG ONE WALL

A PASS-THROUGH KITCHEN: COUNTERS & EQUIPMENT ON OPPOSITE WALLS

NOTE: DTW PREFERS SIGNAGE HEIGHT AS SHOWN. THE SPECIFIC LANGUAGE OF REGULATIONS IS THAT THE BASELINE OF THE

CHARACTERS MUST BE A MINIMUM OF 40" AFF. BECAUSE CHARACTERS ARE RAISED SO THAT VISUALLY-IMPAIRED PEOPLE CAN TOUCH THE SIGN, THE TOP OF THE LETTERS MAY BE NO MORE THAN 48" AFF.

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

SIGNAGE-

A WORK SURFACE MUST PROVIDE KNEE AND TOE CLEARANCE THAT ALLOW FOR A FORWARD APPROACH. MINIMUM WIDTH OF CLEARANCE IS 36". THERE ARE

EXCEPTIONS THAT MAKE THIS 30" BUT THIS IS NOT PREFERRED BY DTW. KITCHENS WITH A STOVE, COOKTOP OR RANGE MUST HAVE A WORK SURFACE LOCATED IMMEDIATELY ADJACENT TO THESE.

THE ONLY EXCEPTION IS KITCHENETTES, WHICH ALLOW A SIDE APPROACH AS A PERMITTED ALTERNATIVE. SEE DETAIL 12 ON THIS SHEET.

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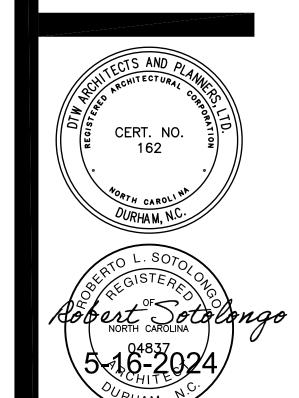
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UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE **BEACON CIRCLE** SUITE 209 RALEIGH, NC

PROJECT NUMBER: 20015E





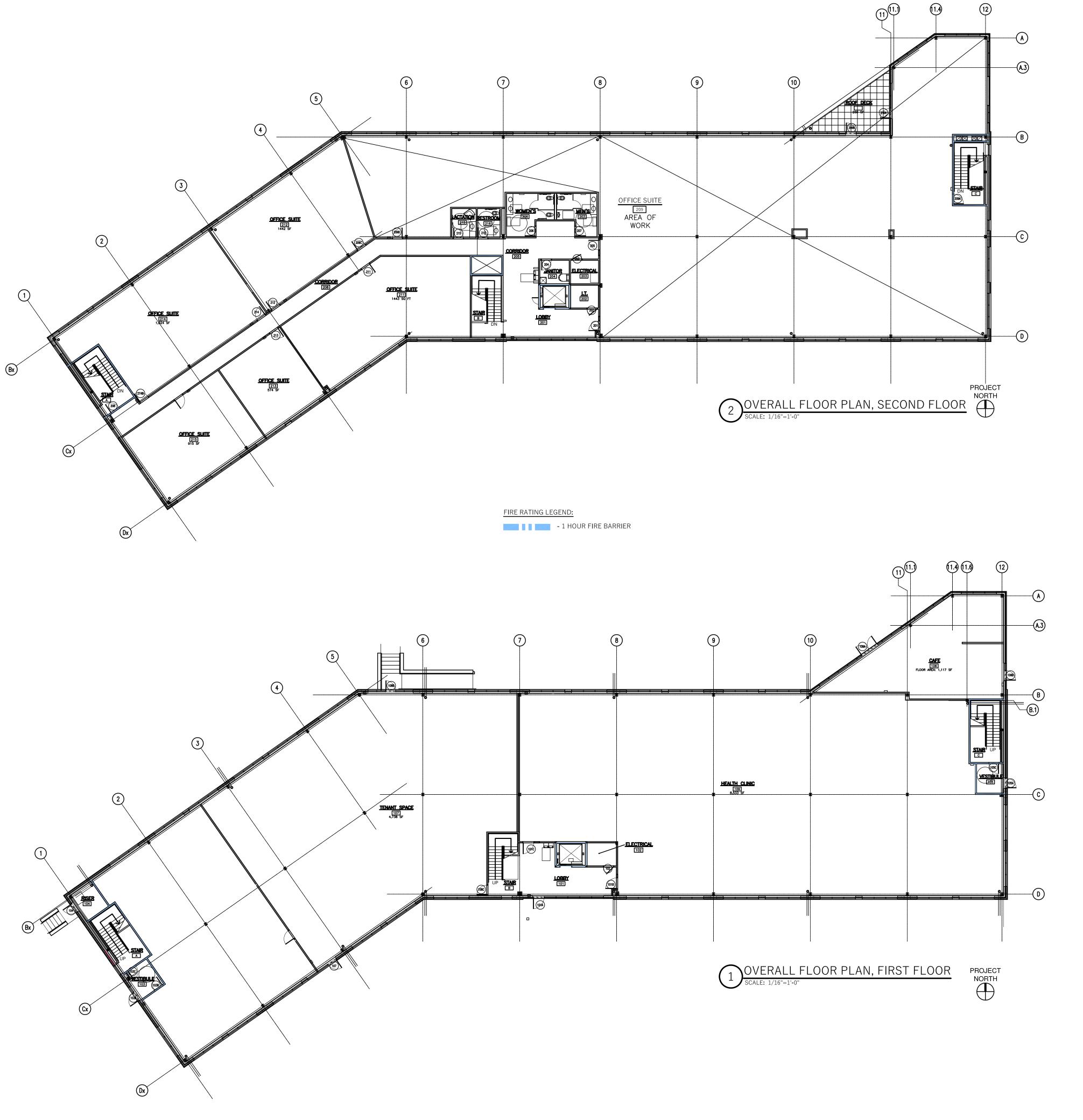
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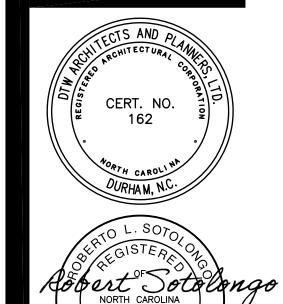
OVERALL AREA OF

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER: 20015E

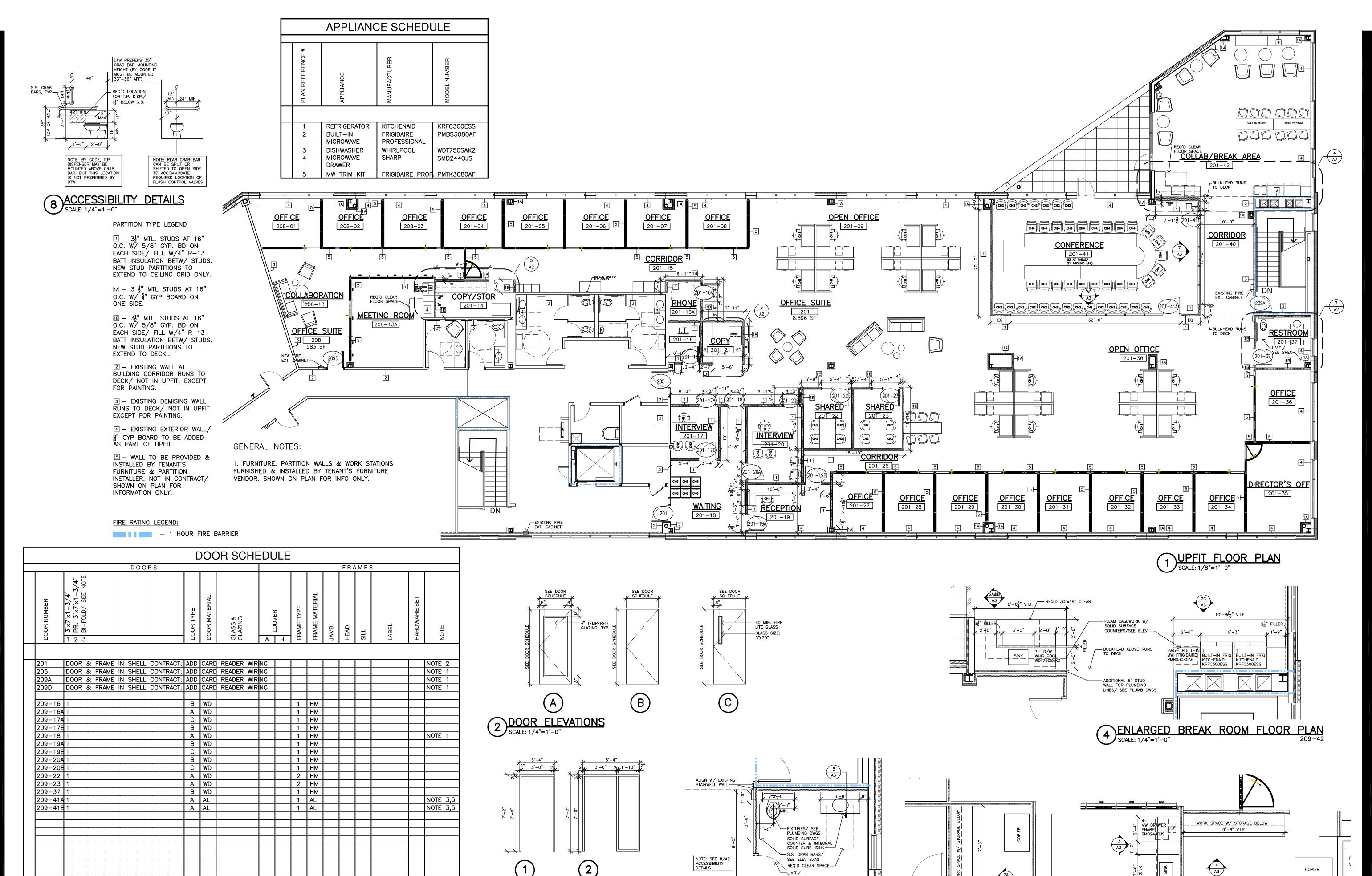




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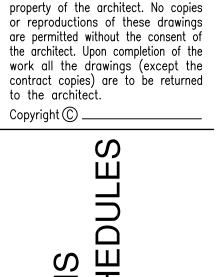
^{Date} MAY 16, 2024



3 H.M. FRAME ELEVATIONS
SCALE: 1/4"=1'-0"

DOOR NOTES:

- DOOR WITH CARD READER. SEE ELECTRICAL DRAWINGS. COORDINATE W/ OWNERS' SECURITY VENDOR. 2) DOOR WITH CARD READER, INTERCOM & CAMERA. SEE ELECTRICAL DRAWINGS. COORDINATE W/ OWNERS' SECURITY VENDOR.
- 3) SEE 6&7/A3 FOR ALUMINUM FRAMES ELEVATIONS.
- 4) ALUMINUM FRAMES TO BE EQUAL TO KAWNEER TRI-FAB 400 SYSTEM WITH A CLEAR ANODIZED FINISH. SEE SPECIFICATIONS
- FOR 1" CLEAR TEMPERED GLASS. 5) ALUMINUM SWING DOORS TO BE EQUAL TO KAWNEER 350 MEDIUM STYLE DOORS WITH CO 12 PUSH-PULL AND BUTT HINGES.
- SEE SPECIFICATIONS FOR 1 CLEAR TEMPERED GLASS. 6) ALL SWING SLIDING DOORS IN WALL TYPE 5 BY OWNER PARTITION VENDOR.



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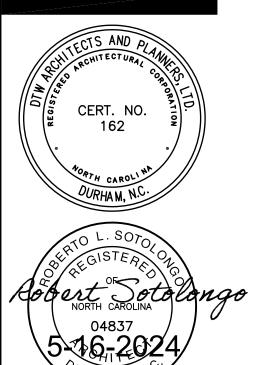
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UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE **BEACON CIRCLE** SUITE 209 RALEIGH, NC

PROJECT NUMBER: 20015E





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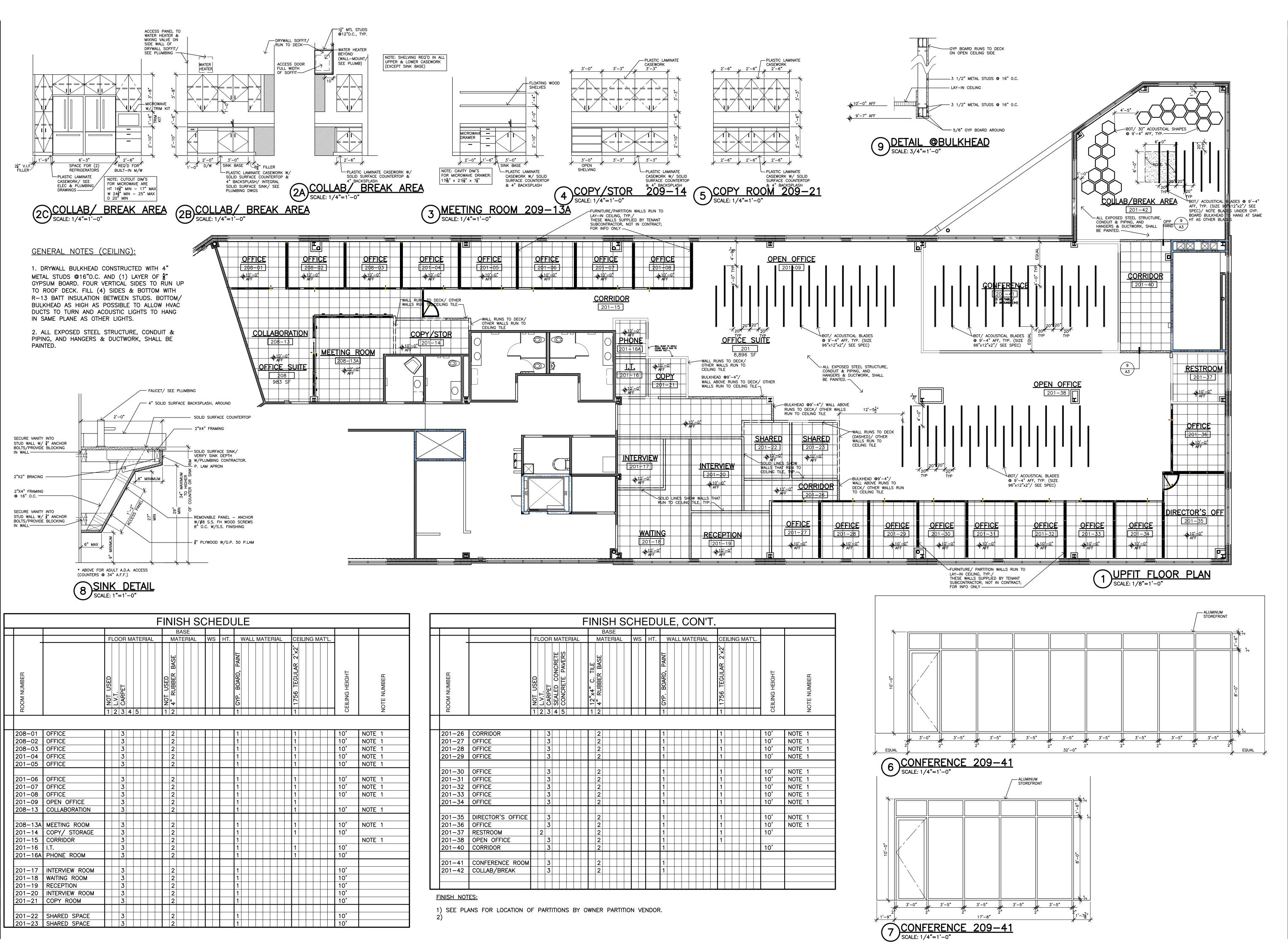
evisions

209-13A & 209-14

5 ENLARGED MTG ROOM & COPY/STOR PLAN SCALE: 1/4"=1'-0"

rawn S.O.S. Checked R.L.S.

^{ate} MAY 16, 2024



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JPFIT CEILING PLAN NTERIOR ELEVATIONS FINISH SCHEDULE

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID

1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER:







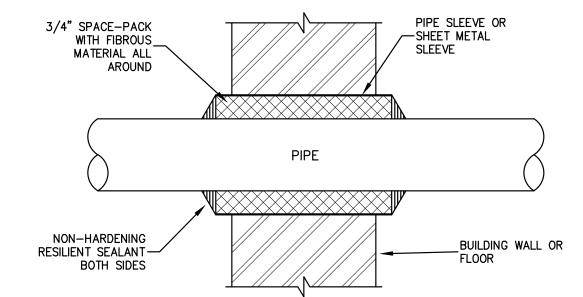
C.D.'s FOR BID
evisions 1 3-28-2023 FOR PRICING

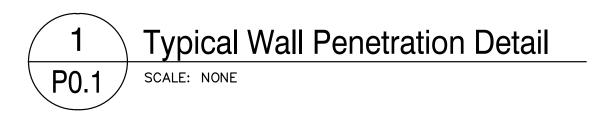
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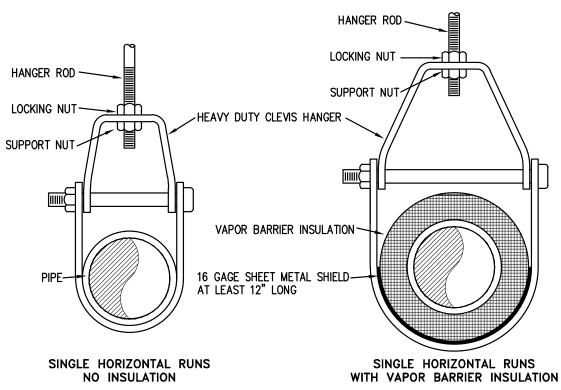
Checked R.L.S.

Date MAY 16, 2024

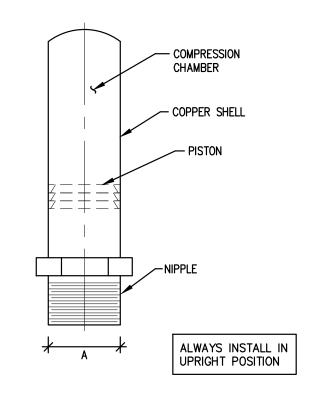
A3











P.D.I. SYMBOL	FIXTURE UNIT RATING	A SIZE
Α	1–11	1/2
В	12-32	3/4
С	33–60	1
D	61–113	1 1/4
E	114–154	1 1/2
F	155-330	2

Shock Arrestor Schedule
P0.1 SCALE: NONE

FIXTURE SCHEDULE - PHASE 6					
SYMBOL	FIXTURE	CW	HW	WASTE	REMARKS
P-1	WATER CLOSET *	1"	1	4"	FLOOR MOUNTED, HANDS FREE FLUSH VALVE, ADA
P-2	LAVATORY	1/2"	1/2"	1-1/2"	COUNTER MOUNTED, ADA, SINGLE HANDLE
P-3	SINK	1/2"	1/2"	1-1/2"	COUNTER MOUNTED, SINGLE BOWL
P-4	WASHER BOX	-	_	2"	

PLUMBING GENERAL NOTES:

- 1. PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, AND MATERIALS NECESSARY FOR THE CONSTRUCTION OF NEW PLUMBING SYSTEMS AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS
- 2. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS, AND EQUIPMENT. TAKE ACTUAL FIELD MEASUREMENTS AT THE JOB SITE IN LIEU OF SCALING THE DRAWINGS.
- 3. REVIEW THE CONTRACT DOCUMENTS OF ALL TRADES AND COORDINATE ALL WORK WITH OTHER TRADES AS NECESSARY TO AVOID CONFLICTS AND INTERFERENCES.
- 4. VISIT THE PROJECT SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING FIELD CONDITIONS.
- 5. ALL WORK AND MATERIALS SHALL COMPLY WITH APPLICABLE STATE, LOCAL, AND NATIONAL CODES (INCLUDING OSHA) AND IN COMPLIANCE WITH THE LATEST EDITION OF THE BUILDING CODE. THESE PLANS AND SPECIFICATIONS SHALL BE THE ABSOLUTE MINIMUM STANDARD OF ACCEPTANCE.
- 6. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL.
- 7. LOCATIONS SHOWN FOR EQUIPMENT, PIPING, VALVES, DEVICES, ETC., ARE DIAGRAMMATIC. ADJUSTMENTS IN THESE LOCATIONS SHALL BE MADE BY THE CONTRACTOR TO FULLY COORDINATE THE WORK OF ALL TRADES AND EXISTING CONDITIONS.
- 8. PROVIDE ONLY NEW MATERIALS AND EQUIPMENT LISTED AND LABELED (FOR THE USE INTENDED) BY AN APPROVED THIRD PART LABORATORY SERVICE SUCH AS UNDERWRITER'S LABORATORIES, INC.
- 9. ALL WATER AND VENT PIPING SHALL BE INSTALLED ABOVE CEILING OR IN CHASE WALLS U.N.O.
- 10. ALL WASTE PIPING SHALL BE INSTALLED BELOW FLOOR OR SLAB U.N.O.
- 11. COORDINATE ALL WASTE, VENT, AND WATER PIPING WITH OTHER TRADES PRIOR TO INSTALLATION.
- 12. PROVIDE ALL OFFSETS IN PIPING AS REQUIRED TO AVOID STRUCTURE AND MECHANICAL EQUIPMENT ABOVE CEILING.
- 13. ALL ABOVE CEILING PLUMBING PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE WHERE
- 14. THE LOCATION OF BALL VALVES SHALL BE COORDINATED WITH OTHER TRADES. VALVES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION WITHIN 24" ABOVE CEILING.
- 15. ALL PIPING PENETRATIONS THROUGH FIRE RATED FLOORS OR PARTITIONS/WALLS SHALL BE SEALED IN ACCORDANCE WITH THE PROPER UL LISTED SYSTEMS. ALL PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED TO PREVENT SOUND TRANSFER USING CAULK OR SHEETROCK MUD.
- 16. SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION NOT SHOWN ON FLOOR PLANS.
- 17. TESTING SHALL COMPLY WITH ALL LOCAL AND STATE STANDARDS AND NATIONAL CODES.
- 18. FIRE—STOPPING SEALANT SHALL BE USED TO SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS.
- 19. FIXTURES REFERENCED AS ADA OR HANDICAP SHALL BE INSTALLED PER HANDICAP CODES.
- 20. ALL PIPING PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED TO PREVENT SOUND TRANSFER.
- 21. ALL PLUMBING PIPING SHALL REMAIN CAPPED DURING ROUGH-IN INSTALLATIONS.
- 22. IN THE CASE THAT ANY DAMAGE OCCURS WHILE INSTALLING THIS WORK TO AREAS OF BUILDING OR SYSTEMS THAT ARE TO REMAIN WITHIN CONSTRUCTION AREA SHALL BE RECTIFIED AT THIS CONTRACTORS EXPENSE.
- 23. IN THE EVENT THE CONTRACTOR CHOOSES TO USE PRODUCTS OTHER THAN THE BASIS OF DESIGN. HE ASSUMES FULL RESPONSIBILITY FOR COORDINATION AND INTEGRATION OF SUCH ITEMS. THE FUNCTIONAL DESIGN INTEGRITY OF ALL SYSTEMS AND COMPONENTS SHALL BE MAINTAINED. VOLTAGES, LOADS, WIRE SIZES AND QUANTITIES, DISCONNECT SWITCHES AND FUSE SIZES, PHYSICAL SIZE, LOCATIONS, CLEARANCES, ETC. SHALL BE FULLY COORDINATED BY THE CONTRACTOR AND SHALL BE HIS RESPONSIBILITY. ANY ADDITIONAL COST RESULTING FROM SAID SUBSTITUTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CM	COLD WATER
DN	DOWN
FD	FLOOR DRAIN
HW	HOT WATER
HWR	HOT WATER RECIRCULATING
SS	SANITARY SEWER
٧	VENT
VTR	VENT THRU ROOF
W	WASTE
ANO	AS NOTED OTHERWISE
BFF	BELOW FINISHED FLOOR
AFF	ABOVE FINISHED FLOOR
GPM	GALLONS PER MINUTE
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
ORD	OVERFLOW ROOF DRAIN
ORDL	OVERFLOW ROOF DRAIN LEADER
	ROOF DRAIN PIPING
	SANITARY SEWER PIPING
	VENT PIPING
P-	PLUMBING FIXTURE
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RECIRCULATING PIPING
	STORM SEWER PIPING
FD− © -	FLOOR DRAIN
0	ELBOW UP
G	ELBOW DOWN
── ₩ ─	SERVICE (BALL) VALVE
_	CHECK VALVE
─ c.o.	CLEAN OUT - FINISHED FLOOR
——I c.o.	WALL CLEAN OUT
-	UNION
SA ⊗	SHOCK ARRESTOR
+	CONNECT TO EXISTING
	TERMINATION POINT OF DEMOLITION
FS-	FLOOR SINK
Ż	HOSE BIBB
☐cs	CIRCUIT SETTER

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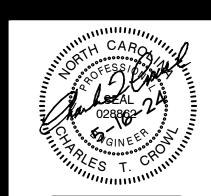
Plumbing Legends, Not and Schedules

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID
1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046







C.D.'s FOR BID

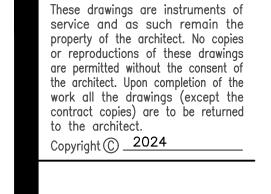
Revisions

Drawn LDH
Checked CTC
Date MAY 16 2

heet Pn 1

RATED WALL LEGEND

1 HOUR FIRE BARRIER



Plumbing Plan

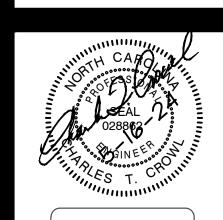
UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID

1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046







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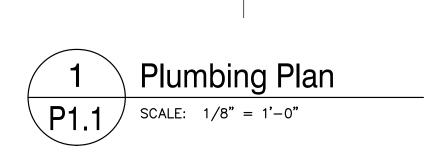
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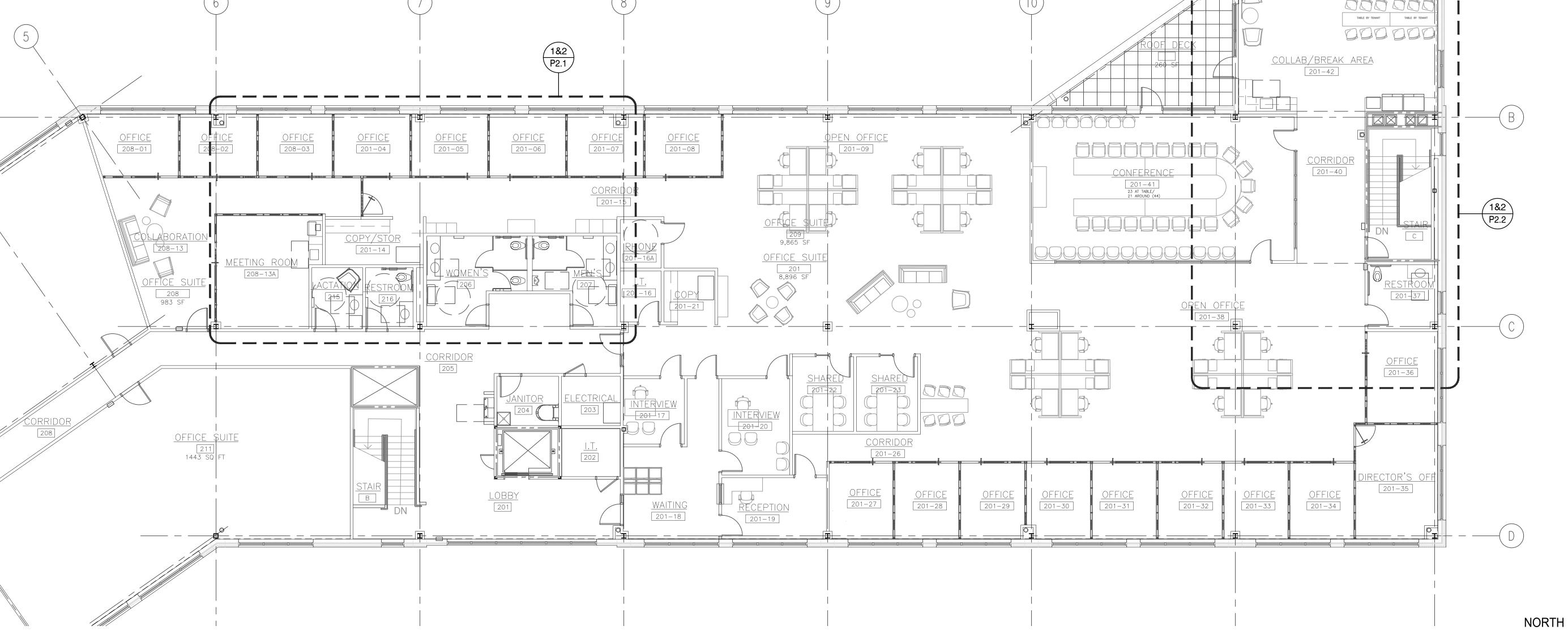
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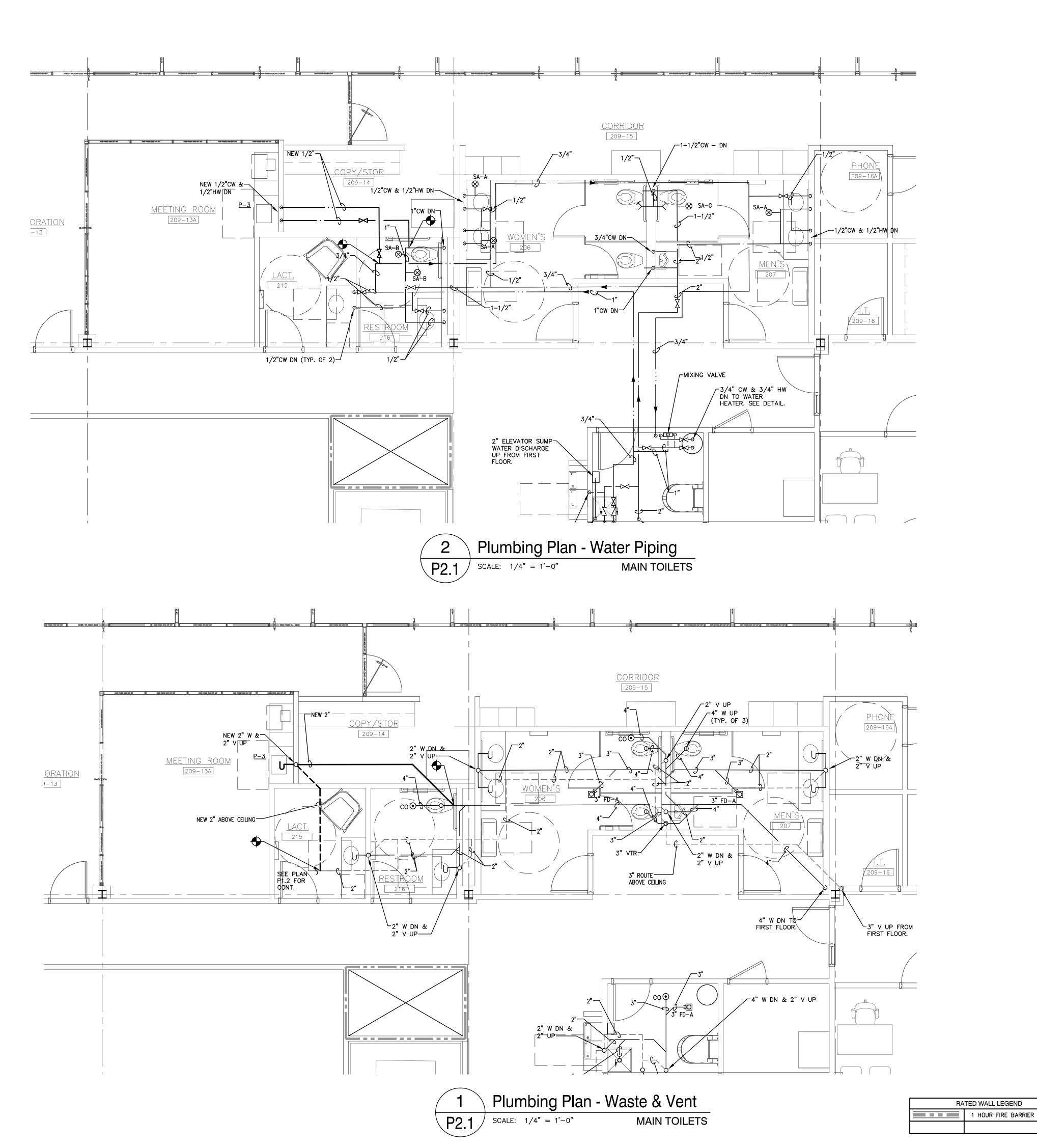
P1.1

RATED WALL LEGEND

1 HOUR FIRE BARRIER







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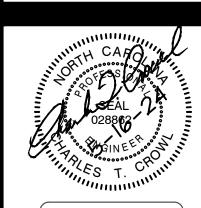
Plumbing Plan - Main Toilets

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID
1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046







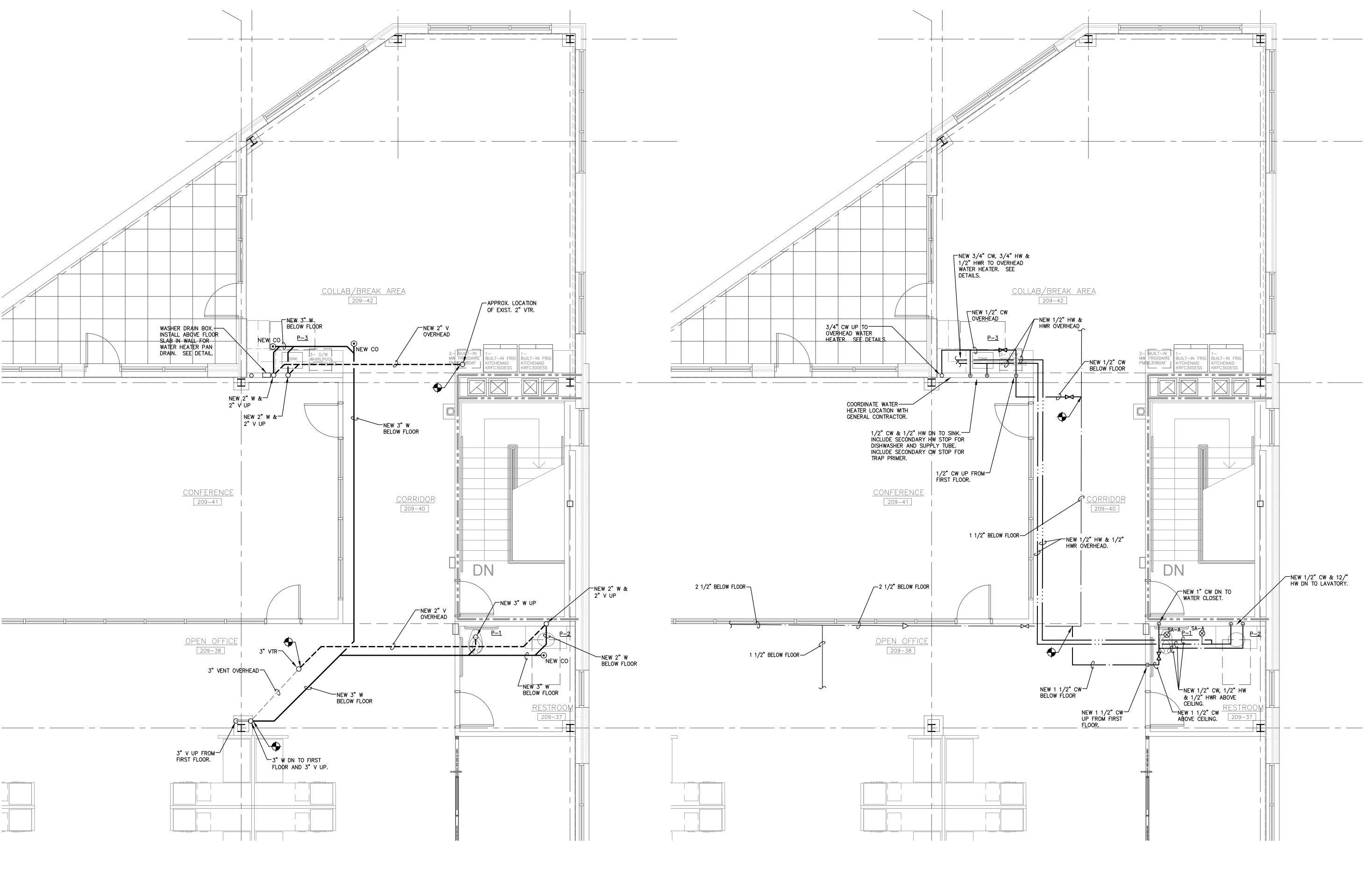
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P2.1

NORTH



Plumbing Plan - Waste & Vent
P2.2

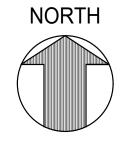
SCALE: 1/4" = 1'-0" Break Area & Restroom

Plumbing Plan - Water Piping

P2.2 SCALE: 1/4" = 1'-0" Break Area & Restroom

RATED WALL LEGEND

1 HOUR FIRE BARRIER



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Plumbing Plan - Break Area & Restroom

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SELF-HELP BEACON POINT

LEGAL AID

1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046



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Architects & Planners, Ltd.

3333 Durham-Chapel Hill Blvd Suite D-100
Durham, NC 27707
919.317.4020

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Checked CTC

P2.2

<u>WOMEN'S</u> 206

NEW 2"—

MEETING ROOM 2009-13A Plumbing Waste & Vent Riser Diagrams
P3.1 SCALE: 1/4" = 1'-0"

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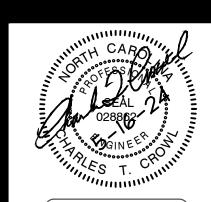
Plumbing Waste & Ven Riser Diagrams

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID
1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046



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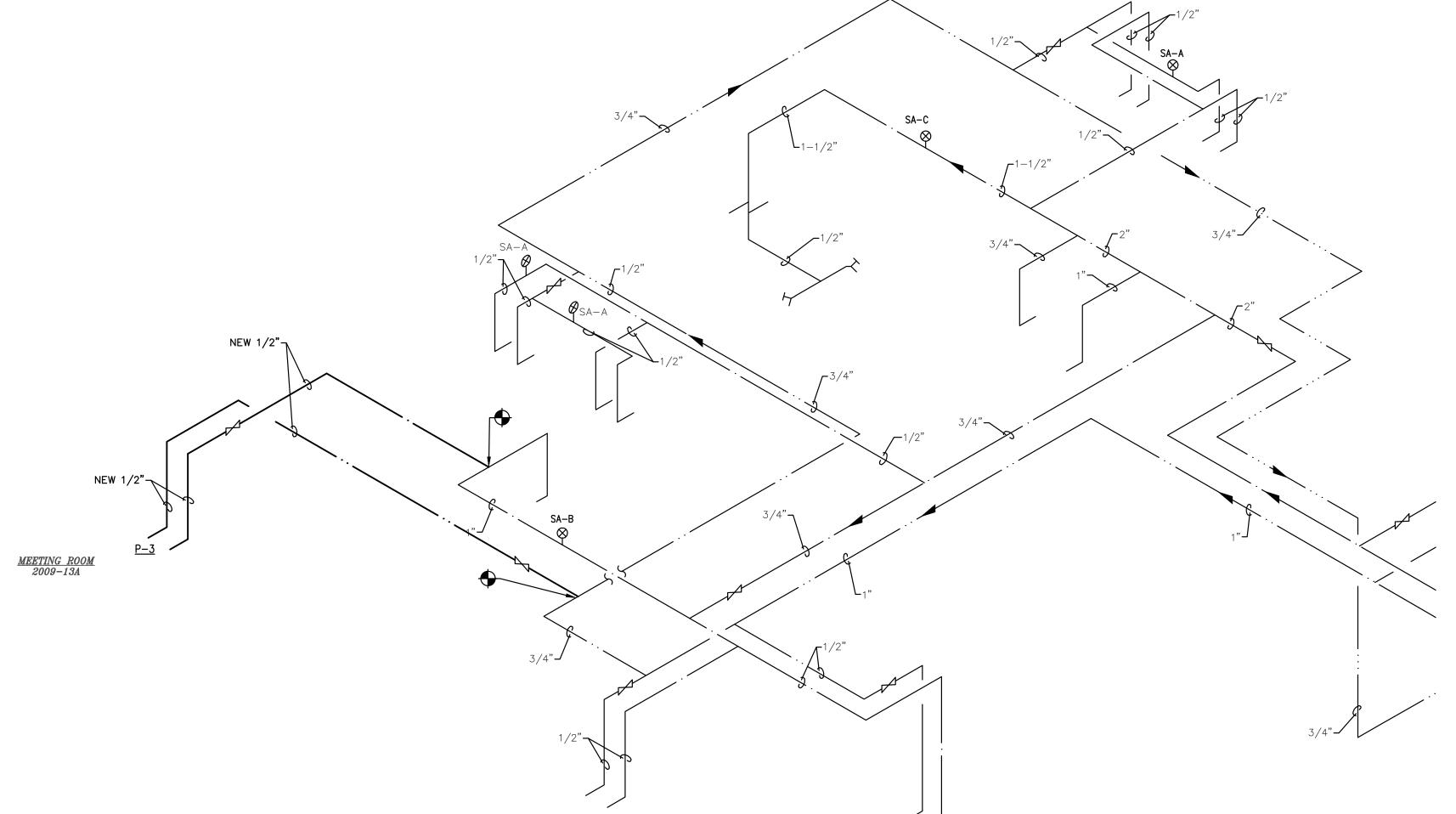
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Drawn LDH
Checked CTC

oate MAY 16, 2024

P3.1

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Plumbing Water Riser Diagrams

P3.2 SCALE: 1/4" = 1'-0" Main Toilets/Meeting Room

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Plumbing Water Riser Diagrams

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LEGAL AID
1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

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P3.2

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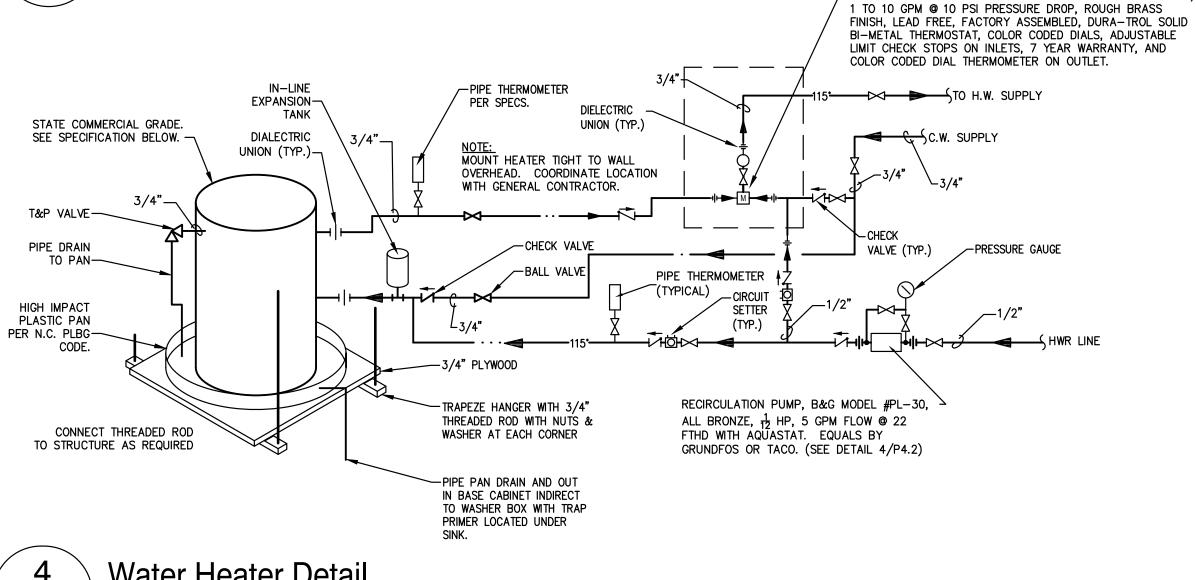
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ote MAY 16, 2024 P4.1

\—CHECK VALVE STRAINER-☐IN-LINE CIRCULATION PUMP

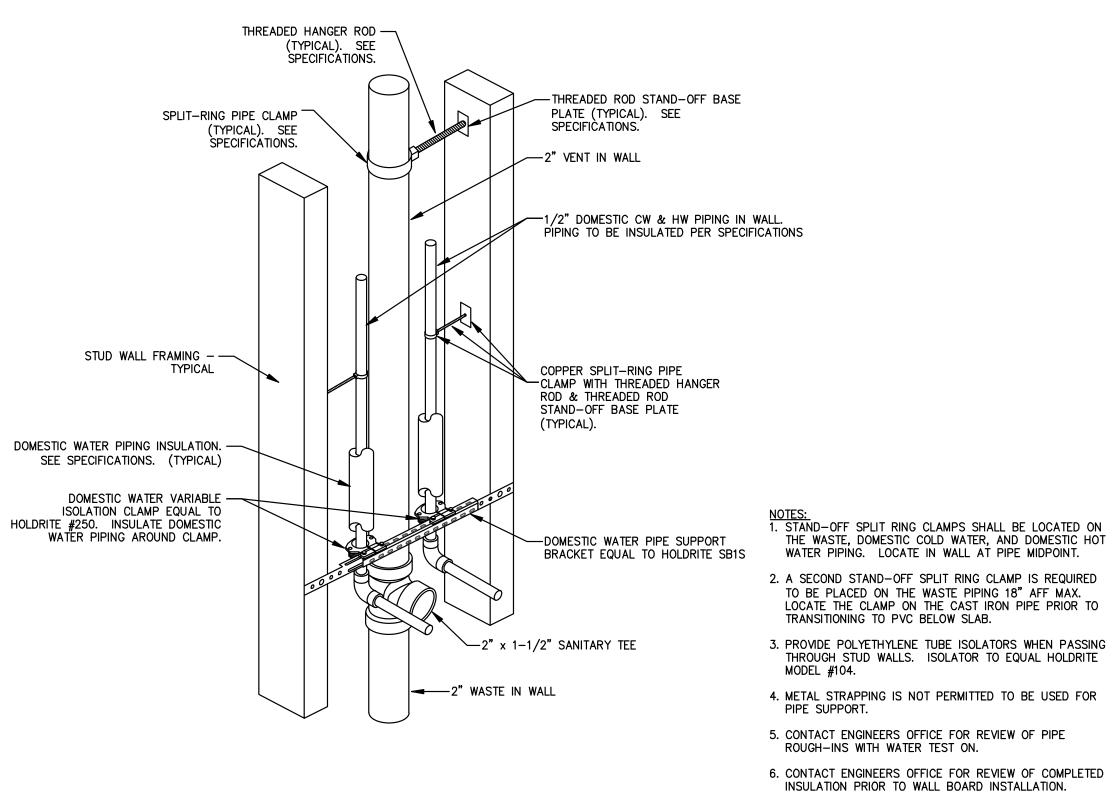
In-line Centrifugal Circulating Pump

NONE (WITH CIRCUIT SETTER, 2" AND SMALLER)



-NEW LEONARD NEXT GENERATION MODEL NO. TM-26-LF-BDT,

Water Heater Detail Suspended SCALE: NONE STATE COMMERCIAL GRADE ELECTRIC WATER HEATER MODEL ES6-20-SOMS-K,



MATERIALS AND LABOR BY

CB

DISCONNECT-

CB

DISCONNECT—/ SWITCH OR JUNCTION BOX

CONTRACTORS SHALL COORDINATE WITH

EACH OTHER TO VERIFY EQUIPMENT

NAMEPLATE RATINGS AND LOCATIONS

WIRING, CIRCUIT BREAKER, DISCONNECT

BEFORE INSTALLATION OF CONDUIT,

SWITCH, OR FUSES. WHERE FUSED

DISCONNECTS ARE SPECIFIED IN THE

PROVIDE THE APPROPRIATELY SIZED

ELECTRICAL CONSTRUCTION DOCUMENTS, THE ELECTRICAL CONTRACTOR SHALL

ELECTRICAL CONTRACTOR

NOTES:

FUSES.

P4.1 SCALE: NONE

MATERIALS AND LABOR BY

STARTER

EQUIPMENT

DISCONNECT SWITCH.

Motor / Equipment Installation - Division of Work

MECH./PLUMBING CONTRACTOR

EQUIPMENT PROVIDED BY NON-ELECTRICAL SUBCONTRACTORS

EQUIPMENT. THIS INSTALLATION SHALL INCLUDE:

2. ALL CONTROLS AND CONTROL CONDUIT AND WIRING.

SHALL BE INSTALLED BY THE SUBCONTRACTOR PROVIDING THE

1. ALL POWER CONDUIT AND WIRING ON THE LOAD SIDE OF THE

ALL CONDUIT AND WIRING (POWER AND CONTROL) INSTALLED BY

A LICENSED ELECTRICAL CONTRACTOR PER THE DIVISION 26

SPECIFICATIONS AND SHALL BE INSPECTED BY THE ELECTRICAL INSPECTOR HAVING JURISDICTION.

THE NON-ELECTRICAL SUBCONTRACTORS SHALL BE INSTALLED BY

ELECTRICAL

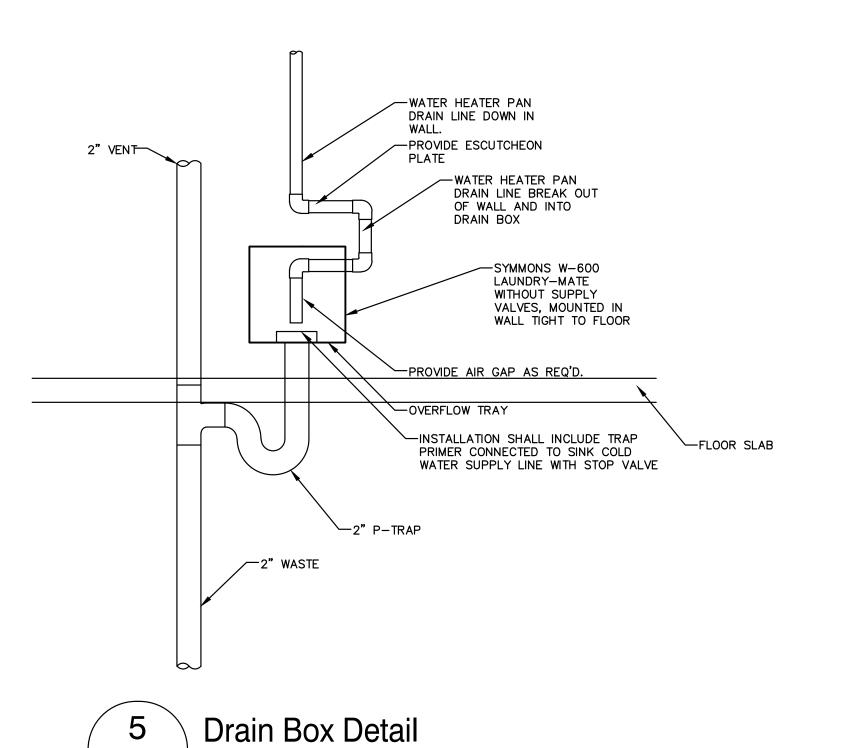
EQUIPMENT OR MOTORS BY

PLUMBING/MECHANICAL/

OR ANY OTHER NON-ELECTRICAL

SUBCONTRACTORS





SCALE: NONE

20 GALLON CAPACITY, (1) 6.0 KW NON-SIMULTANEOUS OPERATION ELEMENT (6.0 KW TOTAL), 208V, 1ø, 11 GPH. RECOVERY @ 90°F RISE. SET THERMOSTAT @ 135°F. PRE-APPROVED EQUALS BY LOCHINVAR OR BRADFORD WHITE.

> RATED WALL LEGEND 1 HOUR FIRE BARRIER

System No. W-L-5029

ANSI/UL1479 (ASTM E814)

F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)

T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)

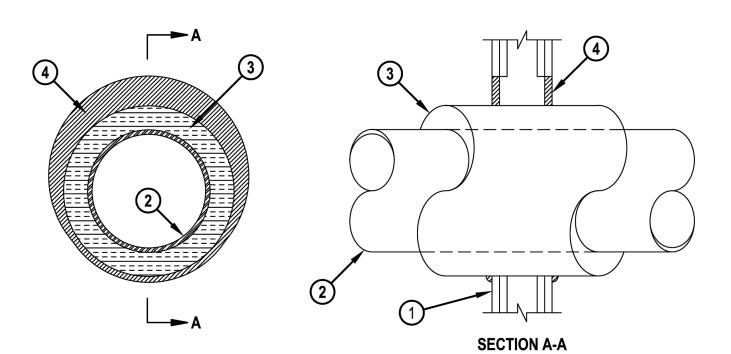
L Rating At Ambient — 4 CFM/Sq Ft

L Rating At 400 F — Less Than 1 CFM/Sq Ft

L Rating At 400 F — Less Than 1 CFM/Sq Ft

L Rating At 400 F — Less Than 1 CFM/Sq Ft

L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

Through Penetrants — One metallic pine or tubing to be installed within the firestop system. Pine or tubing to be rigidly supported on both sides.

2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).

D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).



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Page: 1 of 2

System No. W-L-5029

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).

3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe

covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the

annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),
respectively.

Hilti Firestop Systems

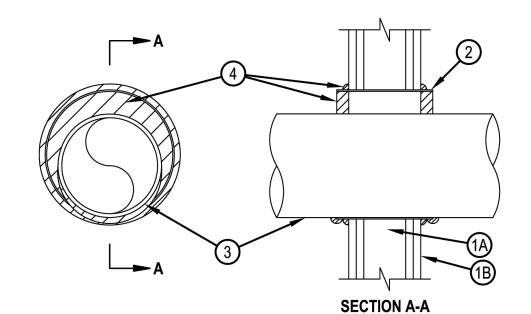
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Page: 2 of 2

Classified by

System No. W-L-1465

C W JUS		
Classified by	ANSI/UL1479 (ASTM E814)	CAN/ULC S115
Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115	F Rating — 1 or 2 Hr (See Item 1)	F Ratings — 1 or 2 Hr (See Item 1)
	T Rating — 0 and 1/4 Hr (See Item 1)	FT Rating — 0 and 1/4 Hr (See Item 1)
	L Rating At Ambient — Less Than 1 CFM/Sq Ft	FH Rating — 1 or 2 Hr (See Item 1)
	L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Rating — 0 and 1/4 Hr (See Item 1)
		L Rating At Ambient — Less Than 1 CFM/Sq Ft
		L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. B. Gypsum Board* — Thickness, type, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max

diam of opening is 10 in. (254 mm).

The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The T, FT, FTH Ratings are 0 and 1/4 hr for 1 and 2 hr rated wall assemblies, respectively.

2. Steel Sleeve — Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) thick galv sheet steel and having a min 1 in. (25 mm) lap along the longitudinal seam. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers. The ends of the steel sleeve shall be flush with or extend max 1 in. (25 mm) beyond each surface of the wall.



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Page: 1 of 2

System No. W-L-1465

3. Through Penetrants — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of sleeve shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be

A. Steel Pipe — Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) steel conduit.

D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

Configuration A
4. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of sealant applied within annulus, flush with both ends of sleeve. A min 1/4 in. (6 mm) diam bead of sealant to be applied at the tubing/sleeve interface at the point contact location and around the entire perimeter of the sleeve at the sleeve/gypsum board interface when the sleeve extends beyond the wall surface.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Sealant, FS ONE Sealant or FS-ONE MAX Intumescent Sealant Configuration B

4. Firestop System — The firestop system shall consist of the following items:

A. Packing Material — Min 5/8 in. (16 mm) thickness of min 4 pcf Mineral wool bat insulation compressed and tightly and packed in to each end of the sleeve. Packing material is to be recessed from each end of the sleeve to accommodate fill material.

A1. Packing Material* - Strips — (As an alternate to Config ,B Item 4A) - Nom 5/8 in. in. (16 mm) wide precut mineral wool strips. The strips

are firmly packed into the gap between penetrant and the steel sleeve Item 2 on both sides of the wall. Packing material is to be recessed from each end of the sleeve to accommodate fill material.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 767 Speed Strips

B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of sealant applied within annulus, flush with both ends of sleeve.

A min 1/4 in. (6 mm) diam bead of sealant to be applied at the tubing/sleeve interface at the point contact location and around the entire

perimeter of the sleeve at the sleeve/gypsum board interface when the sleeve extends beyond the wall surface.

ILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Sealant or FS ONE Sealant or FS-ONE MAX Intumescent Sealant

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Sealant or FS ONE Sealant or FS-ONE MAX Intumescent Sealant * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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Page: 2 of 2

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Plumbing Details

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID

1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046





Architects & Planners, Ltd.
3333 Durham-Chapel Hill Blvd
Suite D-100
Durham, NC 27707

C.D.'s FOR BID

919.317.4020

Revisions

Drawn LDH
Checked CTC

RATED WALL LEGEND

1 HOUR FIRE BARRIER

neet MAY 16, 2024

P4.2

- 1. Floor or Wall Assembly Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor. Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 12 in. (305 mm).
- 2. Steel Sleeve (optional) Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
- 3. Through-Penetrant One metallic pipe, tube or conduit to be installed within the opening. The following types and sizes of metallic penetrants may be used:
- A. Steel Pipe Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe Nom 6 in. (152 mm) diam (or smaller) cast or ductile iron pipe.
- C. Copper Pipe Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- D. Copper Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

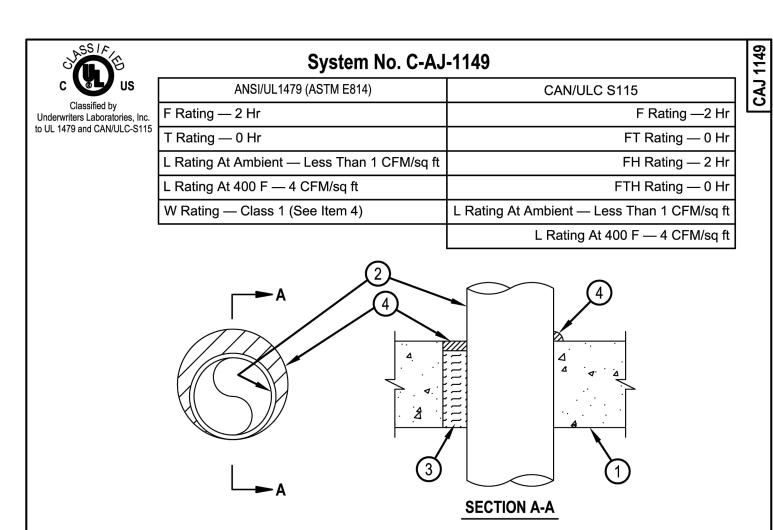
 4. Pipe Covering* Nom 2 in. (51 mm) thick (or thinner) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the pipe covering and periphery of opening shall be min 1/4 in. (6 mm) to
- max 1-5/8 in. (41 mm).

 See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used
- The T Rating is 0 Hr when pipe covering is less than nom 2 in. (51 mm) thick.
- 5. Firestop System The firestop system shall consist of the following:A. Packing Material Min 4 in. (102 mm) thickness of 4 pcf (64 kg/m3) mineral wool batt insulation tightly packed into the opening as a
- permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.

 B. Fill, Void or Cavity Material Sealant* Min 1/2 in. (13 mm) thickness of fill material applied within the annulus flush with the top surface of the floor or both surfaces of the wall.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP606 Sealant
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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- Floor or Wall Assembly Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *. Max diam of opening is 12 in. (305 mm).
 See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- 2. Through Penetrants One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 0 in. (point contact) to max 1-1/4 in. (32 mm). The following types and sizes of metallic pipes, conduits or tubing may be used:
- A. Steel Pipe Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe Nom 10 in. (254 mm) diam (or smaller) cast or ductile iron pipe.
- C. Conduit Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.

 D. Copper Tubing Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
- E. Copper Pipe Nom 4 in. (102 in.) diam (or smaller) Regular (or heavier) copper pipe.
- 3. Packing Material Min 3 in. (76 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation for nom 4 in. diam (and smaller) pipes, conduits or tubings and a min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation for pipe greater than nom 4 in. diam, firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to
- 4. Fill, Void or Cavity Material* Sealant Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. At the point of contact location between pipe and concrete, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. W Rating applies only when CFS-S SIL GG, CFS-S
- SIL SL (floors only), CP601S or CP604 sealant is used.

 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP601S, CP604, CFS-S SIL GG, CFS-S SIL SL (floors only), CP606 or FS-ONE
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),



accommodate the required thickness of fill material.

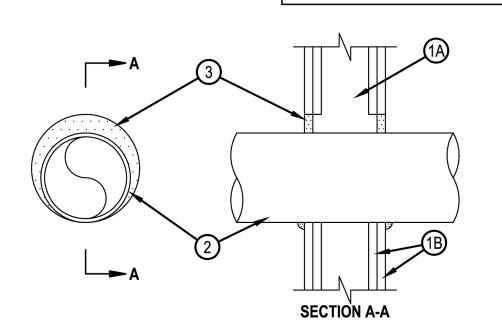
Sealant or FS-ONE MAX Intumescent Sealant.

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,	
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft L Rating at 400 F — Less Than 1 CFM/sq ft

System No. W-L-1054



I. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.



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Page: 1 of 2

Hilti Firestop Systems

System No. W-L-1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm). diam steel co

C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm). diam steel conduit.

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),

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January 23, 2015



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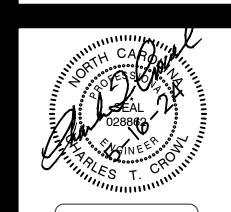
to the architect.

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SELF-HELP BEACON POINT

LEGAL AID
1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046





Architects & Planners, Ltd.
3333 Durham-Chapel Hill Blvd
Suite D-100
Durham, NC 27707

C.D.'s FOR BID

919.317.4020

Revisions

Drawn LDH

Checked CTC
Date MAY 16, 2024

P4 3

Page: 2 of 2

1. FAN SHALL BE UL LISTED (UL 507)

2. PROVIDE BACKDRAFT DAMPER

5. PROVIDE DISCONNECT SWITCH

6. PROVIDE UNIT MOUNTED ADJUSTABLE SPEED CONTROLLER

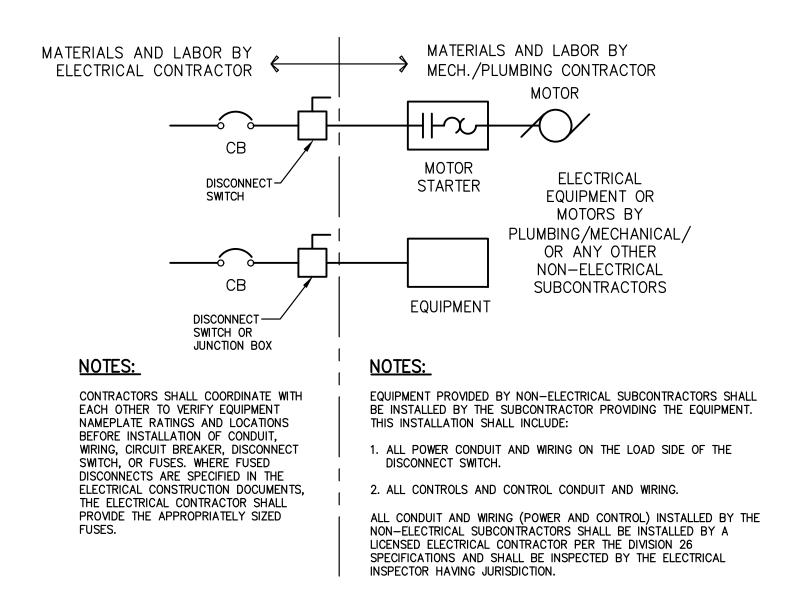
3. FAN HOUSING SHALL BE GALV. STEEL WITH 1/2" ACOUSTICAL INSULATION 7. MC SHALL PROVIDE RELAY AND WIRING TO INTERLOCK FAN WITH RM. ELECTRICAL OCCUPANCY SENSOR

4. PROVIDE ALUMINUM GRILLE WITH WHITE ENAMEL FINISH

	A	AIR TE	ERMINA	AL UNIT	Γ REBA	LANCE	SCH	EDUL	.E	
				PRIMA	ARY AIR		F.	AN	HEATING	3 COIL
DESIG	TYPE	SIZE	RAT	ED	REBA	LANCE	CFM	НР	CAPACITY	VOLTS/
			MAX CFM	MIN CFM	MAX CFM	MIN CFM	CFIVI	ПР	(KW)	PHASE
FPB-2-08	PFP	12	1,100	165	800	160	-	1/4	6.0	480/3
FPB-2-10	PFP	12	380	60	440	90	-	1/8	3.1	277/1
FPB-2-15	PFP	12	1,200	180	640	130	-	1/4	6.6	480/3

- 1. FAN AND HEATING COIL PERFORMANCE IS EXISTING SHOWN FOR REFERENCE ONLY
- . REBALANCE MAXIMUM AND MINIMUM AIRFLOW AS INDICATED IN REBALANCE COOLING COLUMNS

3. PFP ATU TYPE INDICATES PARALLEL FAN POWERED



Motor / Equipment Installation - Division of Work

	\	/ARIA	BLE	AIR VC	DLUN	/IE TE	RMI	NAL	SCH	EDULE			
		I	PRIMARY	AIR			Н	EATING			NC @ 15"		SP
DESIG	MODEL	SIZE	MAX CFM	MIN CFM	CFM	EAT F°	LAT F°	втин	KW	VOLTS/ PHASE	NC @ 1.5" WG	FAN HP	INCHES WG
VAV-2-7	PRICE SDV-S.M.	6	300	150	150	55	85	4860	1.4	277V/1PH	22	-	0.63
VAV-2-8	PRICE SDV-S.M.	6	380	190	190	55	85	6156	1.8	277V/1PH	22	-	0.63
VAV-2-9	PRICE SDV-S.M.	9	900	450	450	55	85	14580	4.3	480V/3PH	24	-	0.40
VAV-2-10	PRICE SDV-S.M.	10	1200	600	600	55	85	19440	5.7	480V/3PH	26	-	0.60
VAV-2-11	PRICE SDV-S.M.	7	410	205	205	55	85	6642	1.9	277V/1PH	25	-	0.51
FPB-2-11	PRICE FDV	2008	530	80	530	69	85	8901	2.6	277V/1PH	32	1/8	0.14
FPB-2-12	PRICE FDV	2008	400	60	400	69	85	6718	2.0	277V/1PH	32	1/8	0.14
FPB-2-14	PRICE FDV	3010	900	135	900	69	85	15115	4.4	480V/3PH	32	1/4	0.10
FPB-2-16	PRICE FDV	2008	400	60	400	69	85	6718	2.0	277V/1PH	32	1/8	0.14
FPB-2-17	PRICE FDV	2008	400	60	400	69	85	6718	2.0	277V/1PH	32	1/8	0.14
FPB-2-18	PRICE FDV	3008	640	100	640	69	85	10748	3.2	480V/3PH	32	1/4	0.04
FPB-2-19	PRICE FDV	2008	550	85	550	69	85	9237	2.7	277V/1PH	32	1/8	0.14

1. AIR TERMINAL UNIT MANUFACTURER BASIS OF DESIGN : PRICE INDUSTRIES

- 2. NC LEVEL IS DISCHARGE NC FOR SINGLE DUCT UNITS AND RADIATED FOR FAN POWERED UNITS AT 1.5" W.G. INLET STATIC PRESSURE
- 3. MIN. DIFFERENTIAL PRESSURE IS PRIMARY AIRFLOW PRESSURE DROP ACROSS ASSEMBLY
- 4. PROVIDE INTEGRAL AIR FLOW SWITCH AND INTEGRAL MAIN LINE POWER DOOR INTERLOCK DISCONNECT
- 5. PROVIDE SOLID METAL LINER (S.M.)
- 6. DISCHARGE AIR TEMPERATURE SENSOR SHALL BE INSTALLED IN THE DUCTWORK IN METAL ENCLOSURE 7. WIRING FROM CONTROL PANEL TO DAT SENSOR SHALL BE IN FLEXIBLE METAL CONDUIT
- 8. TERMINAL UNITS SHALL BE PRESSURE INDEPENDENT WITH DIRECT DIGITAL CONTROLS
- 9. PROVIDE CONTROL POWER TRANSFORMER WITH DISCONNECT
- 10. PROVIDE 42" CLEARANCE IN FRONT OF ELECTRICAL ENCLOSURE

			AIF	R DISTRI	BUTION SO	CHED	ULE				
DESIG	TYPE	CFM RANGE	NECK SIZE	FACE SIZE	ROUND ADAPTER	MAX NC	MAX TP	FRAME	CONSTRUCTION	MODEL	NOTES
		0 - 110	9x9	24x24	6"Ø	15	0.10				
A	LOUVERED FACE	111 - 240	9x9	24x24	8"Ø	20	0.10	LAY-IN	ALUMINUM	AMDA	1 - 4
	SUPPLY DIFFUSER	240 - 350	12x12	24x24	10"Ø	25	0.10	LAT-IIV	ALOMINOM	AIVIDA	1 - 4
		351 - 550	15x15	24x24	12"Ø	25	0.10				
		0 - 160	6"Ø	13.5"Ø	N/A	20	0.10				
В	ROUND CONE SUPPLY DIFFUSER	161 - 280	8''Ø	18"Ø	N/A	20	0.10	EXPOSED	ALUMINUM	RCDA	1, 6, 7
		281 - 400	10"Ø	22.5"Ø	N/A	23	0.10				
RAC	PERFORATED FACE RETURN GRILLE	0 - 350	14x14	24x24	N/A	15	0.03	LAY-IN	ALUMINUM	APDDR	1, 2, 5

- 1. DIFFUSERS AND GRILLES TO BE BY PRICE OR APPROVED EQUIVALENT
- 2. WHITE POWDER COAT FINISH WITH BLACK INTERIOR BACK PAN
- 3. DEVICES LOCATED IN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH FACTORY SHEET METAL PANEL.
- 4. PROVIDE FACTORY ROUND ADAPTOR WITH OPENING CENTERED IN FACE
- 5. PROVIDE RETURN GRILLE WITH RETURN AIR CANOPY
- 6. VOLUME DAMPER SHALL BE INSTALLED AT BRANCH DUCT TAKEOFF. DO NOT PROVIDE FACTORY ACCESSORY DAMPER AT DIFFUSER INLET.

7. HORIZONTAL TO VERTICAL AIR PATTERN ADJUSTABLE BY TURNING THE SMALL CENTER CONE

APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE) MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

16° F winter dry bulb: summer dry bulb: 90° F

Interior design conditions winter dry bulb: 72° F summer dry bulb: 75° F relative humidity:

Building heating load: Building cooling load:

Chiller

N/A

Mechanical Spacing Conditioning System

description of unit: Existing heating efficiency: Existing cooling efficiency: N/A size category of unit: N/A Boiler N/A

List equipment efficiencies: See Equipment Schedules

GENERAL HVAC NOTES

- VERIFY EVERY ASPECT OF THE PROPOSED WORK AS DESCRIBED OR IMPLIED BY THE CONTRACT
- IN THE EVENT THE CONTRACTOR CHOOSES TO USE PRODUCTS OTHER THAN THE BASIS OF DESIGN, HE ASSUMES FULL RESPONSIBILITY FOR COORDINATION AND INTEGRATION OF SUCH ITEMS. THE FUNCTIONAL DESIGN INTEGRITY OF ALL SYSTEMS AND COMPONENTS SHALL BE MAINTAINED. VOLTAGES, LOADS, WIRE SIZES AND QUANTITIES, DISCONNECT SWITCHES AND FUSE SIZES. PHYSICAL SIZE, LOCATIONS, CLEARANCES, ETC. SHALL BE FULLY COORDINATED BY THE ELECTRICAL CONTRACTOR AND SHALL BE HIS RESPONSIBILITY. ANY ADDITIONAL COST RESULTING FROM SAID SUBSTITUTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- INSTALL ALL EQUIPMENT SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. ADJUSTMENTS IN THESE LOCATIONS SHALL BE MADE BY THE CONTRACTOR TO FULLY COORDINATE WITH BUILDING CONDITIONS.
- 4. ALL ITEMS THAT REQUIRE ACCESS, I.E. FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE INCLUDING BUT NOT LIMITED TO ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, AND CONTROL DEVICES.
- ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE MECHANICAL DRAWINGS REGARDING BUILDING CONSTRUCTION, DIMENSION AND ARRANGEMENT. LINES THAT REQUIRE SLOPE, SUCH AS PLUMBING WASTE LINES SHALL TAKE PRECEDENCE OVER ELECTRICAL LINES. CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL TRADES TO AVOID CONFLICTS AND SHALL PROVIDE ALL OFFSETS AND EQUIPMENT AS REQUIRED TO FIT THE MECHANICAL WORK INTO THE AVAILABLE SPACE.
- 6. READ ALL NOTES AND REMARKS SUPPLIED ON EQUIPMENT SCHEDULES.
- COORDINATE LIGHT, PIPING, AND DUCT LOCATIONS CLOSELY WITH E.C. PRIOR TO BEGINNING WORK.
- COORDINATE PIPING, EQUIPMENT, ROOF DRAIN PENETRATIONS, AND DUCT LOCATIONS IN MECHANICAL ROOMS WITH PLUMBING CONTRACTOR BEFORE BEGINNING INSTALLATION.
- DUCTWORK AND PIPING ELEVATION CHANGES, TRANSITIONS, AND OFFSETS MAY NOT BE SHOWN AND SHALL BE PROVIDED AS REQUIRED.
- 10. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE PROPER INSTALLATION OF WORK AND TO REPAIR ANY DAMAGE DONE DURING INSTALLATION.
- 15. INSTALL MANUAL VOLUME DAMPERS IN SUPPLY, RETURN, AND EXHAUST SYSTEMS FOR EACH AIR DISTRIBUTION DEVICE AND AS REQUIRED FOR SYSTEM AIR BALANCING. LOCATE DAMPERS AWAY
- 16. PROVIDE DUCT ACCESS DOORS FOR INSPECTION AT ALL NEW FIRE DAMPERS, SMOKE DAMPERS, SMOKE DETECTORS AND HEATING COILS.

FROM AIR DISTRIBUTION DEVICES, NEAR DUCT MAINS, AND MAINTAIN EASY ACCESSIBILITY.

- 17. REFER TO ARCHITECTURAL DRAWINGS FOR WALL ELEVATIONS AND REFLECTED CEILING PLANS FOR LOCATIONS OF HVAC DEVICES.
- 18. ADJUSTABLE THERMOSTATS SHALL BE MOUNTED AT 48" FROM FINISHED FLOOR TO TOP OF DEVICE IN ACCORDANCE WITH ANSI 308.
- 19. PROTECT ALL RTU COILS FROM DUST, DEBRIS, THROUGHOUT INSTALLATION, INITIAL START-UP, AND CONSTRUCTION DURATION USING FILTERING MEDIA SHEET PRE-FILTERS ON ALL RETURN
- 20. ALL AIR DISTRIBUTION DEVICES, AIR TERMINAL UNITS, COILS, AND EQUIPMENT, ETC. SHALL BE COORDINATED WITH THE OTHER BUILDING TRADES FOR PROPER LOCATION AND TO PREVENT INTERFERENCE WITH THE LIGHTS, PLUMBING, CONDUIT, ETC.
- 21. DUCT SIZES SHOWN INDICATE NET INSIDE DIMENSIONS.
- 22. ALL 45° AND 90° TURNS IN RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH TURNING VANES UNLESS SPECIFICALLY OTHERWISE NOTED.
- 23. SEAL ALL DUCTWORK WITH HARDCAST IRON-GRIP WATER BASED SEALANT.
- 24. ROUND ELBOWS SHALL BE LONG RADIUS WITH A MINIMUM CENTER LINE RADIUS OF ONE AND ONE—HALF THE DUCT DIAMETER (1.5 X D).
- 25. LOW PRESSURE FLEXIBLE DUCT SHALL BE OF A LENGTH NO GREATER THAN 6'-0" AND SHALL CONTAIN ELBOWS AND BENDS BEING NO GREATER THAN 90° WITH A MINIMUM RADIUS OF ONE AND ONE-HALF THE DUCT DIAMETER (1.5 X D).
- 26. FLEXIBLE DUCTWORK SHALL BE LABELED IN ACCORDANCE WITH UL 181.
- 27. COORDINATE INSTALLATION OF EQUIPMENT WITH GENERAL CONTRACTOR AND OTHER TRADES TO MAINTAIN MANUFACTURER REQUIRED MINIMUM SERVICE ACCESS.
- 28. MECHANICAL CONTRACTOR TO LOCATE ROOF PENETRATIONS FOR ROOFING CONTRACTOR. ALL ROOFING PENETRATIONS TO BE MADE BY ROOFING CONTRACTOR.
- 29. MECHANICAL CONTRACTOR TO SUPPLY ROOFING CONTRACTOR WITH ANY CURBS, HOODS, OR CAPS PRIOR TO ROOFING CONTRACTOR BEGINNING ROOF WORK. MECHANICAL CONTRACTOR TO INSTALL EQUIPMENT ON INSTALLED ROOFING CURB.
- 30. ALL DRAIN PIPING SHALL SLOPE DOWN IN THE DIRECTION OF FLOW.

ME	CHANICAL ABBREVIATIONS
AD	ACCESS DOOR
ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
АТМ	ATMOSPHERE
ATU	AIR TERMINAL UNIT (TERMINAL BOX)
CD	CONDENSATE DRAIN
СҒМ	CUBIC FEET PER MINUTE
со	CLEANOUT
DB	DRY BULB TEMPERATURE
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FLA	FULL LOAD AMPS
FPF	FINS PER FOOT
GC	GENERAL CONTRACTOR
HP	HORSEPOWER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
RA	RETURN AIR
RB	RE-BALANCE
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SP	STATIC PRESSURE
TAB	TESTING, ADJUSTING, AND BALANCING
TDH	TOTAL DYNAMIC HEAD
TYP.	TYPICAL
XE	EXISTING EXHAUST AIR GRILLE
XR	EXISTING RETURN AIR GRILLE

DUC	TWORK SYMBOLS LEGEND
① _{ATU-1}	THERMOSTAT - SERVICE: AIR TERMINAL UNIT 1
18/14	RECTANGULAR DUCT (W/H) INSIDE CLEAR DIM.
	NEW DUCT
	EXISTING DUCT
	EXISTING DUCT/EQUIPMENT TO BE DEMOLISHED
	FLEXIBLE DUCT CONNECTOR
	DUCT ELBOW WITH TURNING VANES
J JVD	MANUAL VOLUME DAMPER / BALANCING DAMPER (VD)
	SUPPLY AIR DUCT IN SECTION
	RETURN DUCT IN SECTION
	EXHAUST DUCT IN SECTION
1	DUCTWORK TURNING DOWN
	DUCTWORK TURNING UP
A-375	AIR DISTRIBUTION DEVICE TYPE "A" BALANCED FOR 375 CFM
	FLEXIBLE AIR DUCT
- %-	SUCTION/TRANSFER AIRFLOW
-	DISCHARGE AIRFLOW
-	END OF DEMOLITION
•	CONNECT TO EXISTING

EXISTING SUPPLY AIR GRILLE

ME	CHANICAL SHEET INDEX	
M0.1	MECHANICAL LEGENDS, NOTES, & SHEET INDEX	
M1.1	MECHANICAL DEMOLITION PLAN	
M2.1	MECHANICAL RENOVATION PLAN	
M3.1	MECHANICAL DETAILS AND SEQUENCE OF OPERATIONS	

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Legends, Schedules Mechanical Note

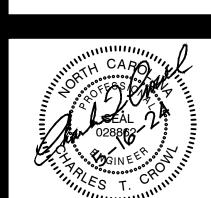
UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE **BEACON CIRCLE** SUITE 209 RALEIGH, NC

PROJECT NUMBER:

EE# 23-046



Planners, Lta 3333 Durham-Chapel Hill Blvc Suite D-100

C.D.'s FOR BID

Durham, NC 27707 919.317.4020

RAS

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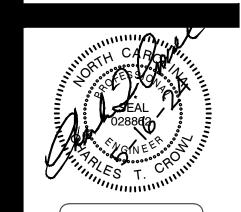
Mechanical Demolition Plan

UPFIT FOR:

SELF-HELP **BEACON** POINT

LEGAL AID 1425 PROMISE **BEACON CIRCLE** SUITE 209 RALEIGH, NC

PROJECT NUMBER: EE# 23-046



Architects & Planners, Ltd. 3333 Durham-Chapel Hill Blvd Suite D-100 Durham, NC 27707 919.317.4020

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M1.1

NORTH RATED WALL LEGEND 1 HOUR FIRE BARRIER

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POINT

BEACON CIRCLE SUITE 209 RALEIGH, NC

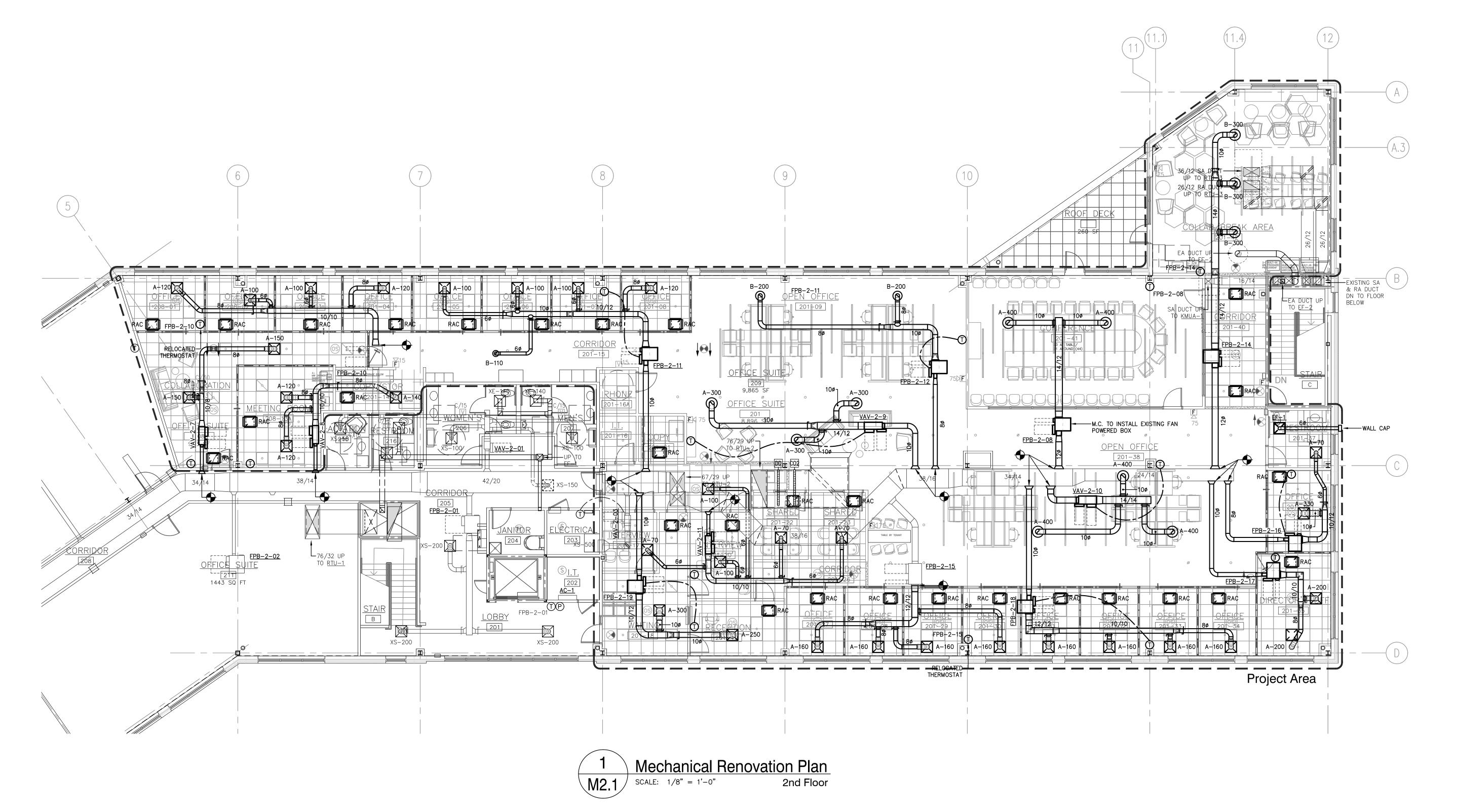


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RATED WALL LEGEND 1 HOUR FIRE BARRIER

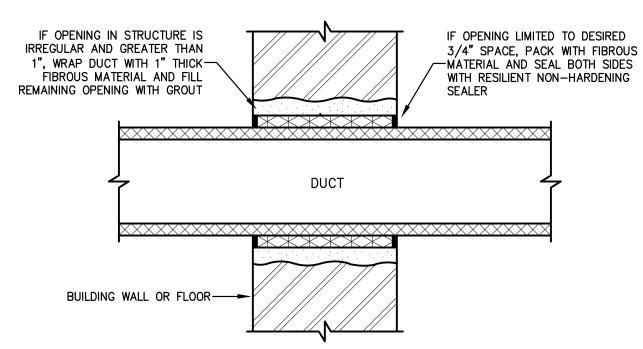
NORTH

NOTES:

1. FLEXIBLE DUCTS SHALL NOT BE INSTALLED ABOVE HARD CEILINGS, ABOVE INACCESSIBLE CEILINGS, ON HIGH PRESSURE SYSTEMS, AND EXHAUST SYSTEMS

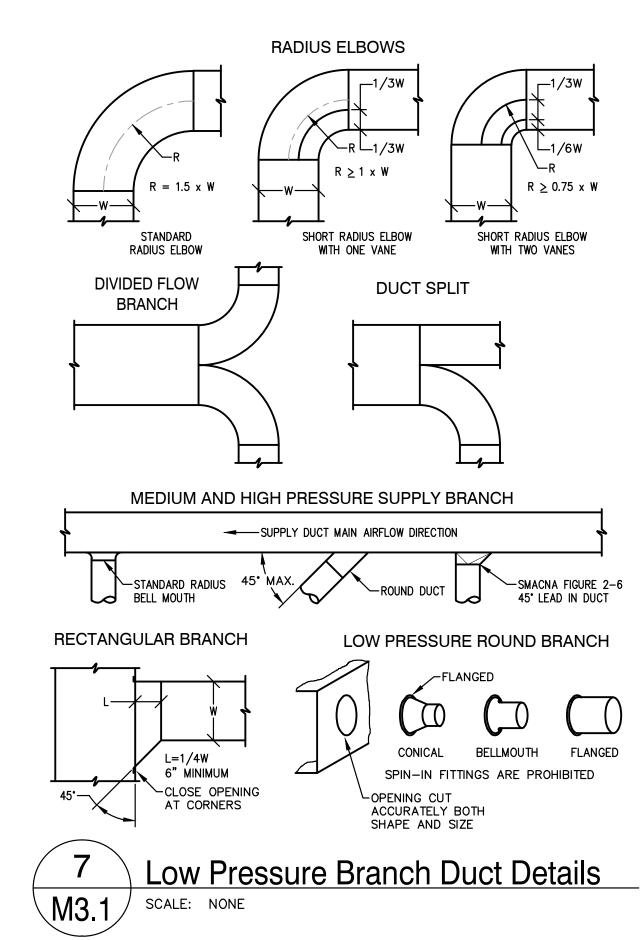
- 2. FLEXIBLE DUCTS SHALL BE INSTALLED MIN. 4" ABOVE CEILING
- SUPPORT FLEXIBLE DUCT WITH INTERMEDIATE SUPPORTS TO LIMIT 4" PER FOOT MAXIMUM DEFLECTION
- 4. AIR DISTRIBUTION DEVICE BACKPAN SHALL BE INSULATED
- 5. PROVIDE VELOCITY GRID ON DIFFUSERS WITH LESS THAN TWO STRAIGHT INLET DIAMETERS AT DUCT CONNECTION

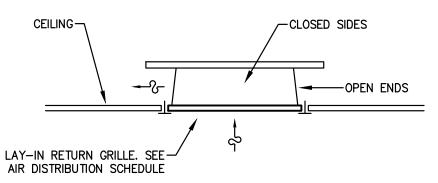
9 Air Device Connection Detail
M3.1 SCALE: NONE



8 Typical Wall Penetration Details

M3.1 SCALE: NONE Non-Rated or Smoke-Tight

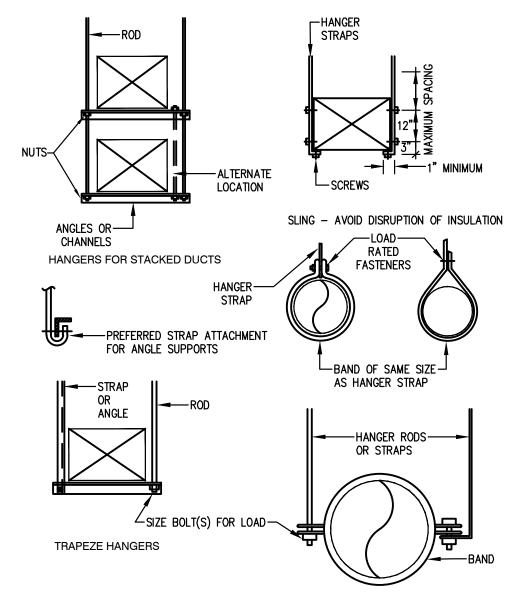




NOTES:

1. RETURN AIR CANOPY SHALL BE EQUAL TO PRICE MODEL RAC.
PROVIDE FOR EACH NON-DUCTED RETURN AIR GRILLE.

6 Return Air Grille Detail
M3.1 SCALE: NONE

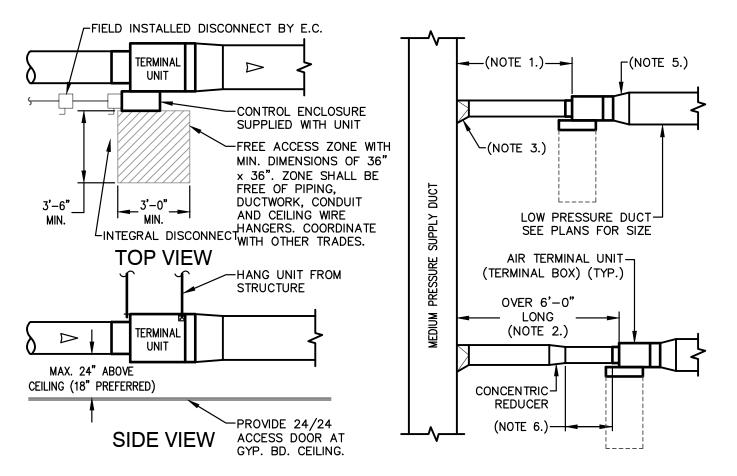


NOTES:

1. REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES. DO NOT EXCEED LOAD RATINGS FOR METHOD USED.

- 2. PROVIDE TRAPEZE HANGERS FOR OVAL DUCTS & RECTANGULAR DUCTS 36" & WIDER AND FOR MEDIUM AND HIGH PRESSURE DUCTS
- 3. SUPPORT CHANNEL TRAPEZE HANGERS BY RODS
- 4. HANGER RODS SHALL BE ATTACHED WITH WASHER, THREAD LOCKER, & LOCKING NUT

5 Typical Duct Hangers
M3.1 SCALE: NONE



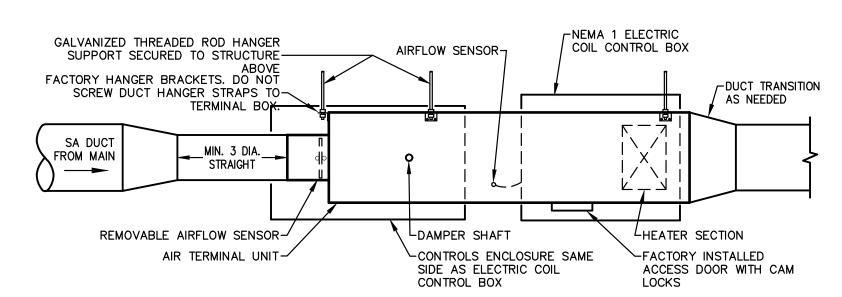
NOTES:

1. PROVIDE 3 DUCT DIAMETERS, MINIMUM 24" LONG, SECTION OF STRAIGHT SHEET METAL DUCT (MAXIMUM LENGTH OF 6')
AT THE INLET OF EACH TERMINAL UNIT. SEE TERMINAL UNIT SCHEDULE FOR INLET DUCT SIZE.

- 2. PROVIDE SHEET METAL DUCT OF ONE SIZE LARGER THAN VAV TERMINAL INLET FOR LENGTH OVER 6'-0"
- 3. 45 DEGREE LEAD IN, CONICAL, OR 45 DEG. ROUND AT EACH CONNECTION TO MEDIUM PRESSURE DUCTWORK
- 4. SEE PLANS FOR DISCHARGE DUCT SIZE
- 5. PROVIDE TRANSITION FITTING FROM VAV BOX DISCHARGE TO FULL SIZE OF DISCHARGE DUCT SIZE INDICATED ON PLANS
- 6. MINIMUM 3 DUCT DIAMETERS OF STRAIGHT DUCT SAME SIZE AS BOX INLET

Terminal Unit Inlet & Discharge Ductwork

M3.1 SCALE: NONE



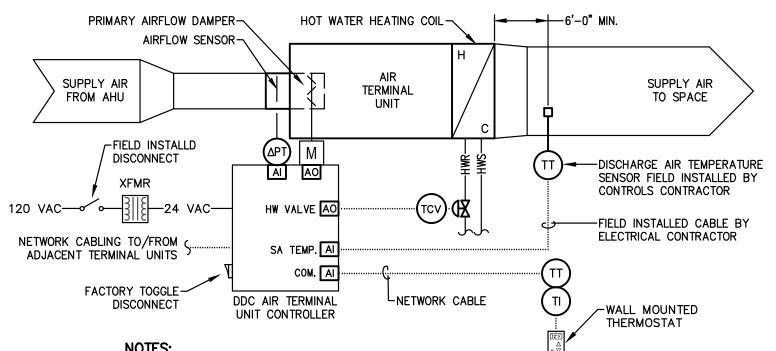
NOTES:

1. PROVIDE COMPLETE PRESSURE INDEPENDENT CONTROLS PACKAGE

- 2. MAINTAIN MINIMUM CLEARANCE IN FRONT OF CONTROL AND ELECTRICAL PANELS PER NEC. AS FOLLOWS: 36" FOR 0-150 VAC AND 42" FOR 151-600 VAC.
- 3. COORDINATE HAND CONFIGURATION OF CONTROL PANEL WITH ALL OTHER TRADES PRIOR TO PROCUREMENT.
- 4. CONTROL PANEL AND ELECTRICAL PANEL SHALL BE ACCESSIBLE WITHIN 24" OF CEILING
- 5. SEE COIL PIPING DETAIL AND VAV TERMINAL BOX SCHEDULE FOR ADDITIONAL REQUIREMENTS
- 6. WHERE HEATING COILS ARE NOT FACTORY INSULATED, FIELD INSTALL INSULATION ON HEATING COIL

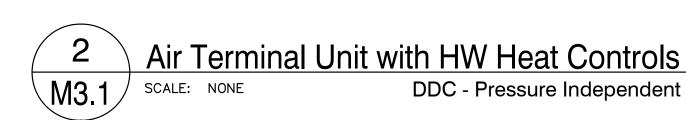
Electric Heat

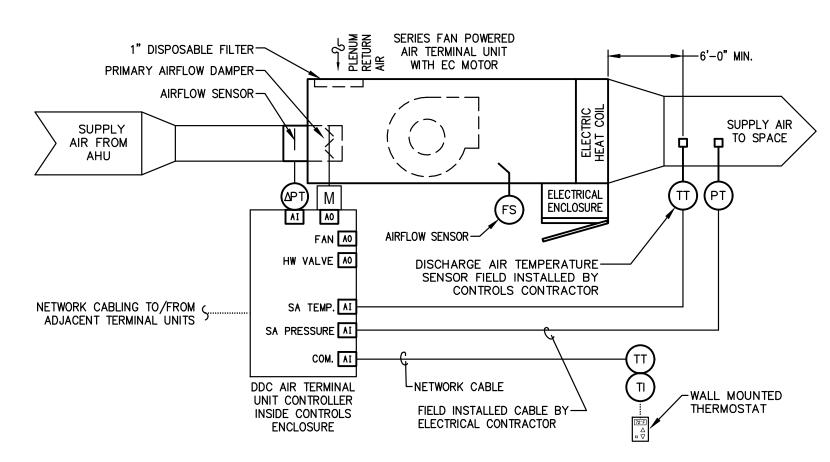




1. AIRFLOW SENSOR BY TERMINAL BOX MANUFACTURER

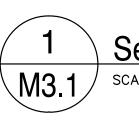
- 2. DDC CONTROLLER / ACTUATOR SUPPLIED AND FIELD INSTALLED BY CONTROLS CONTRACTOR
- 3. FACTORY INSTALLED CONTROL PANEL SHALL INCLUDE CONTROL POWER TRANSFORMER AND DISCONNECT SWITCH. SEE ELECTRICAL DRAWINGS FOR POWER CIRCUITING.
- 4. COORDINATE ELECTRICAL ENCLOSURE ORIENTATION AND MOUNTING PRIOR TO PROCUREMENT
- 5. MAINTAIN MINIMUM 36" CLEARANCE IN FRONT OF 0-150 VAC CONTROL PANELS PER NEC.





NOTES: 1. AIRFLOW SENSOR BY TERMINAL BOX MANUFACTURER

- 2. DDC CONTROLLER / ACTUATOR SUPPLIED AND FIELD INSTALLED BY CONTROLS CONTRACTOR
- 3. FACTORY INSTALLED CONTROL PANEL SHALL INCLUDE MANUAL AND AUTOMATIC RESET, CONTROL POWER TRANSFORMER, AND INTERLOCKING DOOR DISCONNECT SWITCH. SEE ELECTRICAL DRAWINGS FOR POWER CIRCUITING.
- 4. COORDINATE ELECTRICAL ENCLOSURE ORIENTATION AND MOUNTING PRIOR TO PROCUREMENT
- 5. MAINTAIN MINIMUM CLEARANCE IN FRONT OF CONTROL AND ELECTRICAL PANELS PER NEC. AS FOLLOWS: 36" FOR 0-150 VAC AND 42" FOR 151-600 VAC.



SCALE: NONE DDC - Pressure Independent

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HVAC Details

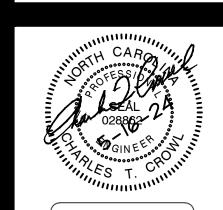
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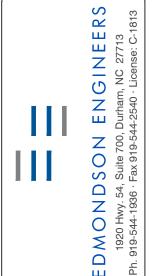
SELF-HELP BEACON POINT

LEGAL AID

1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046





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Suite D-100
Durham, NC 27707

C.D.'s FOR BID

919.317.4020

Drawn RAS

evisions

Drawn RAS Checked CTC

te MAY 16, 2024

M3.1

											_									
									ı	EXISTING										
NOTEO	OVT	LOAD	DECODIDETION	COND	F00		101	O.D.	<u> </u>	PANEL 'H	L2'	OD.	101	N.	TE00	COND	DECODIDETION	LOAD	OVT	NOTE
NOTES	1	LOAD 360	DESCRIPTION RTU-1,RTU-2 RECEP	COND 3/4"	12	N 12	W 12	CB 20	720	LOAD		CB 20	W	N 12	EGC 12	COND 3/4"	DESCRIPTION RM 215, 216 RECEP	LOAD 360	2	NOTE
	3	720	ROOF DECK REC	3/4"	12	12	12	20	120	1080		20	12	12	12	3/4"	RESTROOMS 206,207	360	4	
	5	540	W. SHELL CONV REC	3/4"	12	12	12	20		1000	1620	20	12	12	12	3/4"	HK, JANITOR RECEP	1080	6	
	7	2700	EX PANEL 'T3'	<u> </u>				100	3025		1020	20	12	12	12	3/4"	EWC - CORRIDOR 205	325	8	
	9	3360	(SUITE 211)	l s	EE RI	ISER		3P	0020	3860		20	12	12	12	3/4"	ARA COMM PANEL	500	10	
	11	3048	(FRCSA)					-			3548	20	12	12	-	-	FACP	500	12	
	13	1440	IT SPLIT SYSTEM	3/4"	12	-	12	15	1940			20	12	12	-	-	ACCESS CONTROLS	500	14	
	15	1440	1	-	-	-	12	2P		2640		20	12	12	12	3/4"	ELEVATOR SUMP PUMP	1200	16	
	17		SPARE					20			4500	60	6	-	10	3/4"	WATER HEATER	4500	18	
	19		SPARE					20	4500			2P	6	-	-	-	-	4500	20	
	21		SPARE					20		720		20	12	12	12	3/4"	HK CORRIDOR 208	720	22	
	23		SPARE					20			540	20	12	12	12	3/4"	CONV REC SHELL EAST	540	24	
	25		SPARE					20	3600			100					EX PANEL 'T1'	3600	26	
	27		SPARE					20		3000		3P		SEE	RISE	R	(SUITE 214)	3000	28	
	29		SPARE					20			3396	-					(SE PROMISE)	3396	30	
	31		SPARE					20	1440			20	12	12	12	3/4"	IT ROOM REC	1440	32	
	33		SPARE					20		1200		20	12	12	-	-	IT ROOM REC	1200	34	
	35		SPARE					20			1200	20	12	12	-	-	IT ROOM REC	1200	36	
	37		SPARE					20	6860			100					EX PANEL 'T2'	6860	38	
	39		SPARE					20		6320		3P		SEE	RISE	R	(SUITE 212)	6320	40	
	41		SPARE					20			3576	-					(SE PROMISE)	3576	42	
	43		SPARE					20	0			20					SPARE		44	
	45		SPARE					20		0		20					SPARE		46	
	47		SPARE					20			0	20					SPARE		48	
3	49	3190	NEW PANEL 'T4A'					100	16030			100					NEW PANEL 'T4'	12840	50	2
	51	7256	(SUITE 201)	S	EE RI	SER		3P		19076		3P		SEE	RISE	₹	(SUITE 201)	11820	52	2
	53	6248	(LEGAL AID)				ı	-			16868	-					(LEGAL AID)	10620	54	2
		NA	SUBFEED	LUG OR	CB									14455			OUDEAGE	MOUNT		
			2007/	120	\ (C) T	_		3	PHASE					WIRE	INID D	ND.	SURFACE			
			208Y/	120 400	VOLT			-	MLO				^	GROU SE RA		4rx	NEMA	AIC MININ	ALINA	
				400	FEED			IN/A	IVILO					SEKA	II ED		22N	AIC WIININ	VIO IVI	
					MCB/			Х	MCB											
NOTES:						0										AMPS	PHASE TOTA	LS:	h	(VA
	SQUAR	E D NQOD	PANELBOARD													317.63	PHASE A:			8.12
2	PROVID	E NEW BRI	EAKER AND RETURN S	PARES TO	NWO C	ER WH	ERE A	PLICA	BLE.							315.80	PHASE B:		3	7.90
3	USE EX	ISTING BRE									29				293.73				5.25	
4																309.05	TOTAL CONNEC	CTED	11	1.26
5																230.56	TOTAL DEMAN	ID *	۾ ا	3.00

GENERAL ELECTRICAL NOTES:

- 1. THE CONTRACTOR SHALL VERIFY EQUIPMENT NAMEPLATE INFORMATION BEFORE INSTALLING CONDUIT, WIRING, CIRCUIT BREAKERS, DISCONNECT SWITCHES OR FUSES.
- 2. IN THE EVENT THE CONTRACTOR CHOOSES TO USE PRODUCTS OTHER THAN THE BASIS OF DESIGN, HE ASSUMES FULL RESPONSIBILITY FOR COORDINATION AND INTEGRATION OF SUCH ITEMS. THE FUNCTIONAL DESIGN INTEGRITY OF ALL SYSTEMS AND COMPONENTS SHALL BE MAINTAINED. VOLTAGES, LOADS, WIRE SIZES AND QUANTITIES, DISCONNECT SWITCHES AND FUSE SIZES, PHYSICAL SIZE, LOCATIONS, CLEARANCES, ETC. SHALL BE FULLY COORDINATED BY THE ELECTRICAL CONTRACTOR AND SHALL BE HIS RESPONSIBILITY. ANY ADDITIONAL COST RESULTING FROM SAID SUBSTITUTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS REGARDING BUILDING CONSTRUCTION, DIMENSION AND ARRANGEMENT. LINES THAT REQUIRE SLOPE, SUCH AS PLUMBING WASTE LINES SHALL TAKE PRECEDENCE OVER ELECTRICAL LINES. CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL TRADES TO AVOID CONFLICTS AND SHALL PROVIDE ALL OFFSETS AND EQUIPMENT AS REQUIRED TO FIT THE ELECTRICAL WORK INTO THE AVAILABLE
- 4. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE, HAVE A GROUND BAR, A NEUTRAL BAR AND TOOL DEFEATABLE INTERLOCKS.
- 5. COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
- ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
- THE CONTRACTOR SHOULD READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS WHICH INCLUDES BUT IS NOT LIMITED TO THE SPECIFICATIONS, ARCHITECTURAL, CIVIL, STRUCTURAL AND ALL ENGINEERING DRAWINGS, SO THAT HE MAY UNDERSTAND THE FULL SCOPE OF WORK AND CONVEY THE PROPER REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
- THE CONTRACTOR SHALL INSPECT AND OBSERVE THE EXISTING SITE, BUILDING, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL CONDITIONS PRIOR TO BEGINNING WORK AND SHALL PROVIDE AND INSTALL FIXTURES, DEVICES AND EQUIPMENT IN A MANNER TO ACCOMMODATE THESE EXISTING CONDITIONS.
- 9. ALL ELECTRICAL EQUIPMENT AND WIRING SHALL BE 75 DEG. RATED.
- 10. FINAL LOCATIONS OF ALL POWER DEVICES SHALL BE COORDINATED WITH FINAL EQUIPMENT PLAN PRIOR TO ROUGH-IN OF ANY LOCATIONS.
- 11. ELECTRICAL CONTRACTOR SHALL FIRE SEAL ALL PENETRATIONS THRU FIRE RATED WALLS. REFER TO PME SHEET FOR U.L. PENETRATION DETAILS.
- 12. ALL LOW VOLTAGE WIRING SHALL BE PLENUM RATED.
- 13. EXIT AND EMERGENCY LIGHTING UNITS SHALL BE CIRCUITED TO THE LINE SIDE OF THE LOCAL SWITCH TO ENSURE OPERATION IN A LOSS OF NORMAL POWER SITUATION. SWITCHED EMERGENCY LIGHTS SHALL HAVE BOTH SWITCHED AND UNSWITCHED LEGS SO THAT FIXTURES ARE CONTROLLED BY AREA LIGHTING CONTROLS WHEN NORMAL POWER IS AVAILABLE. PROVIDE A UL924 EMERGENCY LIGHTING BY-PASS RELAY TO OPEN DIMMING CONTROL CIRCUIT UPON LOSS OF NORMAL POWER. PROVIDE FUNCTIONAL DEVICES ESR2401B OR EQUAL FOR EACH DIMMED ZONE.
- 14. ALL EXTERIOR CONDUIT ROUTINGS SHOWN ARE DIAGRAMMATIC AND FOR CONTRACTOR INFORMATION. ANY PATHWAYS INSTALLED SHALL MEET ALL CURRENT NEC AND NO BUILDING CODE REQUIREMENTS. CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL EXISTING UNDERGROUND UTILITIES.
- 15. ALL CONDUITS IN FINISHED AREAS SHALL BE CONCEALED UNDERSLAB, IN WALLS. ANY CONDUIT THAT MUST BE EXPOSED IN UNFINISHED AREAS SHALL BE NEATLY ROUTED PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE. ROUTE IN CORNERS AND TIGHT ALONG COLUMNS WHERE POSSIBLE TO PROTECT AND CONCEAL. ALL EXPOSED CONDUITS, BOXES AND SUPPORTS SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE.
- 16. NEW TELEDATA OUTLETS SHOWN WILL BE BY THE ELECTRICAL CONTRACTOR AND SHALL INCLUDE BACKBOXES AND CONDUIT WITH PULL STRINGS ABOVE NEAREST ACCESSIBLE CEILING OR SUITE CLOSET. ALL OTHER TELEDATA WORK INCLUDING, BUT NOT LIMITED TO PULLING CABLES, EQUIPMENT, INSTALLING, TERMINATING, TESTING AND LABELING OF CABLES, FACEPLATES AND JACKS SHALL BE BY THE OWNER'S VENDOR.

	ELECTRICAL SYMBOLS
SYMBOL	DESCRIPTION
0	DOWN LIGHT (REFER TO SCHEDULE FOR TYPE)
•	LAY-IN TROFFER (REFER TO SCHEDULE FOR TYPE)
	NIGHT LIGHT (REFER TO SCHEDULE FOR TYPE)
4	WALL MOUNT EMERGENCY LIGHT (REFER TO SCHEDULE FOR TYPE)
⊗	EXIT LIGHT (REFER TO SCHEDULE FOR TYPE)
\$	LIGHT CONTROL SWITCH (3 OR 4-WAY OR KEYED AS INDICATED)
ф	DIMMER SWITCH
ϕ_{w}	WIRELESS DIMMER SWITCH - SEE DETAIL 2/E1.2.
→ A−15	NEW HOMERUN (EX. PANEL 'A', CIRCUIT 15)
_ ~	NEW UNSWITCHED LIGHTING CIRCUIT
	NEW POWER OR LIGHTING CIRCUIT
	DUPLEX RECEPTACLE
₩USB	DUPLEX RECEPTACLE WITH INTEGRAL USB PORTS
<u> </u>	DISCONNECT SWITCH - REFER TO DISCONNECT SCHEDULE FOR DETAILS
	POWER PANEL - SEE PLANS AND SCHEDULES FOR DETAILS
<u> </u>	POWER SYSTEM JUNCTION BOX
FB	6" FIRE RATED POKE—THROUGH FLOOR BOX. 60/40 DEVICE PLATE HUBBELL SYSTEM ONE WITH 1-1/2" DATA/AV CONDUIT TO ABOVE CEILING AND 3/4" POWER CONDUIT. DIE CAST ALUMINUM COVER.
0S1 →	WALL-MOUNTED LUTRON POWR SAVR WIRELESS OCCUPANCY/VACANCY SENSOR. 180 DEGREE COVERAGE TYPE. MODEL # LRF2-OWLB-P-WH
0S2 ->	WALL-MOUNTED LUTRON POWR SAVR WIRELESS OCCUPANCY/VACANCY SENSOR. 90 DEGREE CORNER COVERAGE TYPE. MODEL # LRF2-OKLB-P-WH

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Power

Notes,

Electrical Schedules chedules

> **SELF-HELP** BEACON **POINT**

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER: EE# 23-046



Planners, Ltd. 3333 Durham-Chapel Hill Blvd Suite D-100

C.D.'s FOR BID

Durham, NC 27707

919.317.4020

MS3

hecked JDH

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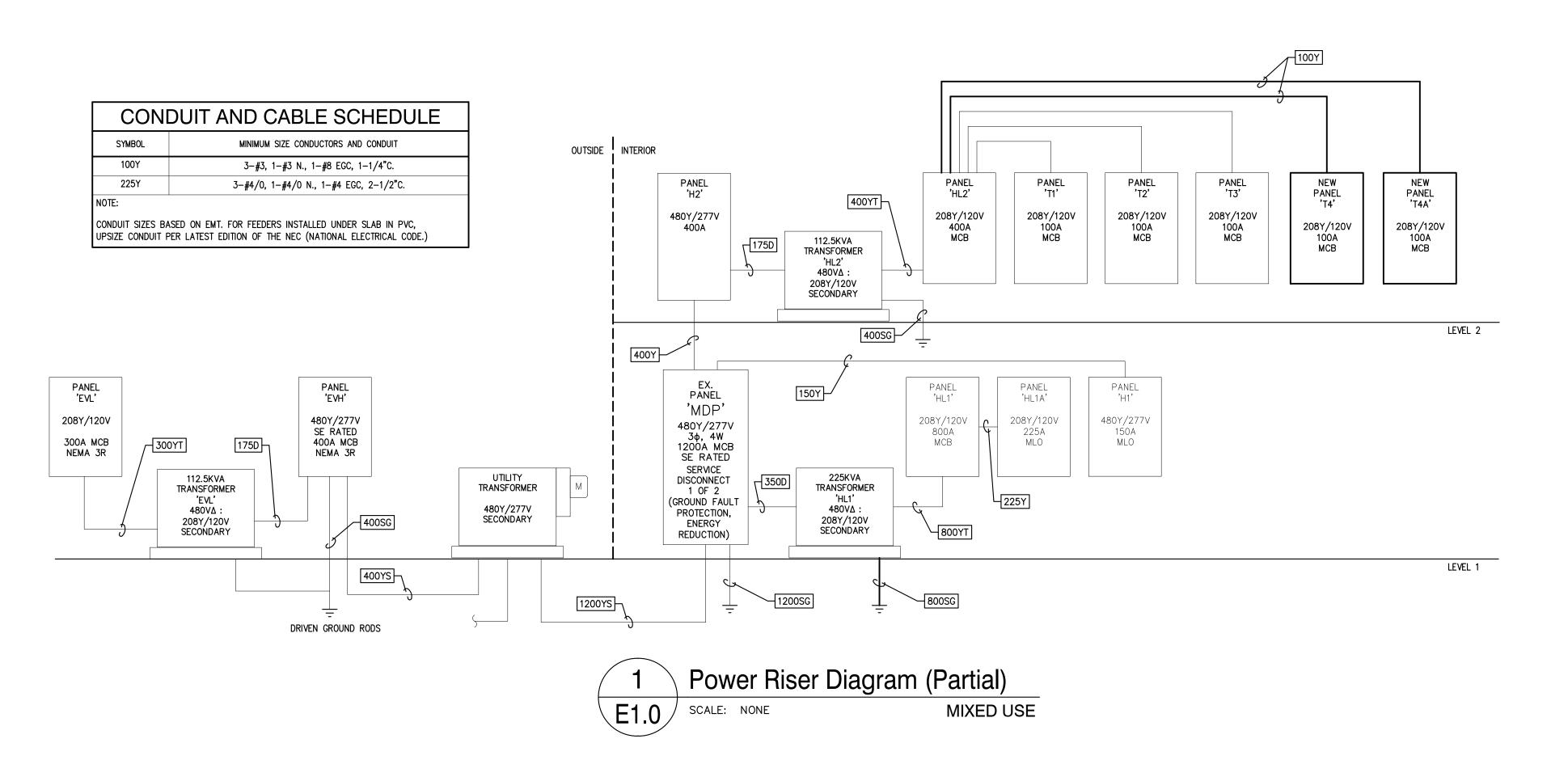
NEC SERVICE CALCULATION -	MIXED USE I	BUILDING	
LOAD DESCRIPTION	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA
LIGHTING 1.6 VA/SF	60.41	1.00	60.41
RECEPTACLES	322.00		
FIRST 10KVA	10.00	1.00	10.00
REMAINDER	312.00	0.50	156.00
HVAC	457.00	1.00	457.00
WATER HEATER	15.00	1.00	15.00
CLINIC FIT-UP MISCELLANEOUS POWER	44.54	1.00	44.54
EV CHARGING STATIONS	14.40	1.25	18.00
EV CHARGING STATIONS (FUTURE)	108.00	1.25	135.00
FOOD TRUCK	6.24	1.00	6.24
ELEVATOR 20 HP	22.44	1.00	22.4
LARGEST MOTOR *		0.25	0.00

TOTAL SERVICE LOAD (KVA) TOTAL SERVICE LOAD (AMPS) SERVICE EQUIPMENT

924.62 KVA 1113 AMPS 1200 AMPS 480 / 277

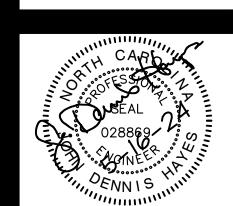
^{*} INCLUDED IN HVAC LOAD

ELECTRI	CAL SYSTEM AND E	EQUIPMENT							
METHOD	OF COMPLIANCE ((SELECT ONE)							
	ENERGY CODE	: x	PRESCRIPTIVE		PERFORMANCE				
	ASHRAE 90.1	:	PRESCRIPTIVE		PERFORMANCE				
LIGHTING	S SCHEDULE (EACH								
		EQUIRED IN FIXTURE		-	SEE FIXTURE SCHEDULE				
	NUMBER OF L	AMPS IN FIXTURE		-	SEE FIXTURE SCHEDULE				
	BALLAST TYPE	E USED IN FIXTURE		-	SEE FIXTURE SCHEDULE				
	NUMBER OF B	BALLASTS IN FIXTURE		-	SEE FIXTURE SCHEDULE				
	TOTAL WATTA	GE PER FIXTURE		-	SEE FIXTURE SCHEDULE				
	TOTAL INTERIO	OR WATTAGE SPECIFIED	VS. ALLOWED	-	[SPC X SPC] [BUILDING]	6,754W	SPECIFIED	8,364W	ALLOW
	TOTAL EXTERI	OR WATTAGE SPECIFIE	D VS. ALLOWED	-	[EXISTING]	N/A	SPECIFIED	N/A	ALLOW
	NAL PRESCRIPTIVE USING THE 2018 NO	COMPLIANCE CECC: NOT REQUIRED	FOR ASHRAE 90.1)						,
	C406.2 - M	ORE EFFICIENT HVAC E	QUIPMENT PERFORMANCE						
	χ C406.3 – RE	EDUCED LIGHTING POW	ER DENSITY						
	C406.4 - EN	NHANCED DIGITAL LIGH	TING CONTROLS						
	C406.5 - Of	N-SITE RENEWABLE EN	IERGY						
	C406.6 - DE	EDICATED OUTDOOR AI	R SYSTEM						
	C406.7 - RF	EDUCED ENERGY USE I	N SERVICE WATER HEATING						



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D S O N E N G I N E E

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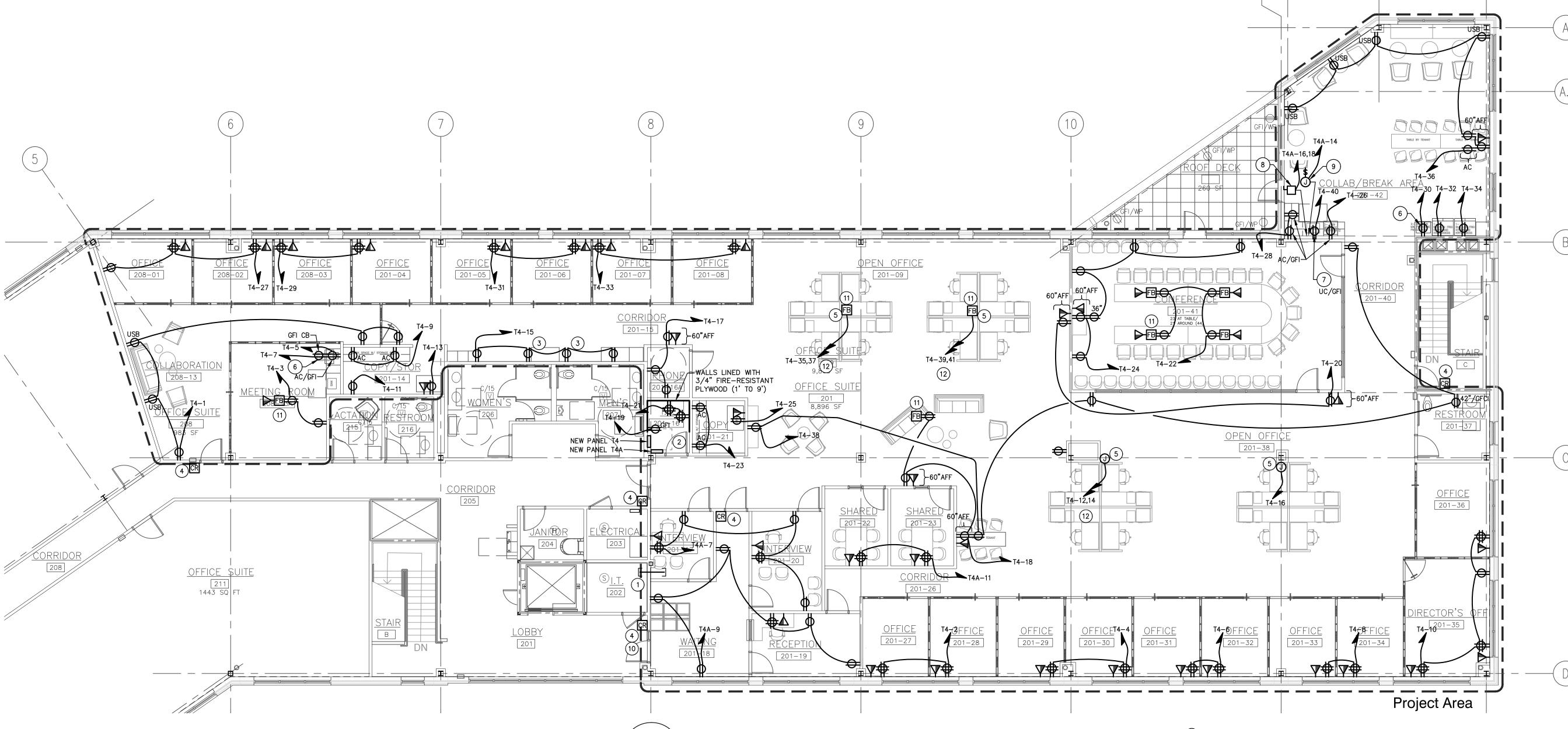
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Durham, NC 27707
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Drawn MS3
Checked JDH
Date MAY 16, 2024

E1.1



Power Renovation Plan SCALE: 1/8" = 1'-0"

										NEW	41									
NOTES	CKT	LOAD	DESCRIPTION	COND	ECC	N	w	СВ	1	PANEL 'T	4.	СВ	w	N	ECC	COND	DESCRIPTION	LOAD	CKT	NOTE
VOTES	1	900	COLLAB 13	3/4"	12	12	12	20	1620	LOAD		20	12	12	12	3/4"	OFFICE 27, 28	720	2	NOTE
	3	360	MEETING 13A FLR BOX	3/4"	12	12	12	20	1020	1080		20	12	12	12	3/4"	OFFICE 29, 30	720	4	
	5	1200	MEETING 13A COFFEE	3/4"	12	12	12	20	_	1000	1920	20	12	12	12	3/4"	OFFICE 31, 32	720	6	
2	7	1200	MEETING 13A MICRO	3/4"	12	12	12	20	1920		1020	20	12	12	12	3/4"	OFFICE 33, 34	720	8	
-	9	360	COPY 14	3/4"	12	12	12	20	1020	1620		20	12	12	12	3/4"	OFFICE 35, 36	1260	10	
	11	180	COPY 14	3/4"	12	12	12	20		1.020	900	20	12	12	12	3/4"	OPEN OFFICE WS 38 A	720	12	1
	13	1500	COPIER 209-14	3/4"	12	12	12	20	2220		000	20	12	12	·-	_	OPEN OFFICE WS 38 A	720	14	1
	15	720	LOCKERS RECEP	3/4"	12	12	12	20		1440		20	12	12	12	3/4"	OPEN OFFICE 38 B	720	16	•
	17	540	PHONE RECEP/TV	3/4"	12	12	12	20			1260	20	12	12	12	3/4"	FLR BOX, DISPLAYS	720	18	
	19	180	IT SERVICE RECEP	3/4"	12	12	12	20	540			20	12	12	12	3/4"	REC DISPLAYS	360	20	
	21	720	IT EQUIPMENT	3/4"	12	12	12	20		1440		20	12	12	12	3/4"	CONF FLOOR BOX	720	22	
	23	540	COPY 21	3/4"	12	12	12	20			1620	20	12	12	12	3/4"	CONF CONVENIENCE	1080	24	
	25	1500	COPIER 21	3/4"	12	12	12	20	3000			20	12	12	12	3/4"	BREAK CNT RECEP	1500	26	
	27	900	OFFICE 01, 02	3/4"	12	12	12	20		2400		20	12	12	12	3/4"	BREAK CNT RECEP	1500	28	
	29	720	OFFICE 03, 04	3/4"	12	12	12	20			2220	20	12	12	12	3/4"	BREAK MICROWAVE	1500	30	
	31	720	OFFICE 05, 06	3/4"	12	12	12	20	1920			20	12	12	12	3/4"	BREAK FRIDGE 1	1200	32	
	33	720	OFFICE 07, 08	3/4"	12	12	12	20		1920		20	12	12	12	3/4"	BREAK FRIDGE 2	1200	34	
1	35	720	OPEN OFFICE 09 A FB	3/4"	12	12	12	20			1980	20	12	12	12	3/4"	COLLAB RECEP	1260	36	
1	37	720	OPEN OFFICE 09 A FB	-	 -	12	12	20	1620			20	12	12	12	3/4"	RECS HK, RR 37	900	38	
1	39	720	OPEN OFFICE 09 B FB	3/4"	12	12	12	20		1920		20	12	12	12	3/4"	DISHWASHER BREAK 42	1200	40	
1	41	720	OPEN OFFICE 09 B FB	-	-	12	12	20			720	20					SPARE		42	
		N/A	SUBFEED	LUG OF	CB								!	,						
									•	•			4	WIRE			SURFACE	MOUNT		
			208Y/	120	VOLT	S		3	PHASE				Х	GROU	ND BAI	R	NEMA	1		
				100		AMP:		N/A	MLO					SERA	TED		10K	AIC MININ	/IUM	
				100		ER AM														
				100	MCB	AMPS		Х.	МСВ											
NOTES:	DDOMID	E DDEAKE	R HANDLE TIE IF OFFICI	E ELIDNIT	IIDE GL	ADEC	A NEUT	DAI DI	ie							AMPS	PHASE TOTA	LS:		(VA
•		IP GFCI BR		EFORMIT	UKE SH	ANES	A NEOI	KAL D								107.00			1	2.84
_	VIIIA I K	IF UFUI DR	LEANER													98.50 88.50			1	1.82 0.62
3 4																98.00		TED	1	0.62 5.28
4 5																98.00 62.89				2.64

										NEW										
									F	PANEL 'T4	Α'									
OTES	СКТ	LOAD	DESCRIPTION	COND	EGC	N	W	СВ		LOAD		СВ	W	N	EGC	COND	DESCRIPTION	LOAD	СКТ	NOTES
1	1	200	LIGHTING INVERTER	3/4"	12	12	12	20	1430			20	12	12	12	3/4"	NORTH/WEST LIGHTS	1230	2	
	3	564	LTS COLLAB/BREAK 42	3/4"	12	12	12	20		1716		20	12	12	12	3/4"	CORE OFFICE LTS	1152	4	
	5	800	CONF RM LTS - 41	3/4"	12	12	12	20			1808	20	12	12	12	3/4"	SOUTH/EAST LTS	1008	6	
	7	1260	INTERVIEW 1 & 2	3/4"	12	12	12	20	1260			20					SPARE		8	
	9	1260	WAITING & RECEPTION	3/4"	12	12	12	20		2540		20	12	12	12	3/4"	OPEN OFFICE LTS	1280	10	
	11	720	SHARED OFFICE 22,23	3/4"	12	12	12	20			1440	20	12	12	12	3/4"	OPEN OFFICE SOUTH - 38	720	12	
	13		SPARE					20	500			20	12	12	12	3/4"	RECIRC PUMP	500	14	
	15		SPARE					20		3000		40	8	8	10	3/4"	WATER HEATER	3000	16	
	17		SPARE					20			3000	2P	8	-	-	-	п	3000	18	
	19		SPARE					20	0			20					SPARE		20	
	21		SPARE					20		0		20					SPARE		22	
	23		SPARE					20			0	20					SPARE		24	
	25		SPARE					20	0			20					SPARE		26	
	27		SPARE					20		0		20					SPARE		28	
	29		SPARE					20			0	20					SPARE		30	
	31		SPARE					20	0			20					SPARE		32	
	33		SPARE					20		0		20					SPARE		34	
	35		SPARE					20			0	20					SPARE		36	
	37		SPARE					20	0			20					SPARE		38	
	39		SPARE					20		0		20					SPARE		40	
	41		SPARE					20			0	20					SPARE		42	
			SUBFEED L	LUG OR	CB															
													4	WIRE			SURFACE	MOUNT		
			208Y/		VOLT			3	PHASE				Х	GROU		R	NEMA			
					BUSS		_	N/A	MLO					SERA	TED		10K	AIC MININ	MUM	
					FEEDE															
				100	MCB /	AMPS		X	МСВ											
IOTES:																AMPS	PHASE TOTA			VA
1																26.58				.19
2																60.47				.26
3																52.07				.25
4																46.37				6.69
5																51.20	TOTAL DEMAN	ND *	18	3.43

KEYNOTES; (#)

- 1. EXISTING 2" EMT INTO MDF ROOM 202. EXTEND AND REWORK AS REQUIRED SO RACEWAY CONNECTS MAIN BUILDING IT ROOM WITH SUITE I.T. CLOSET 209-16.
- 2. REWORK 2" EMT FOR TELECOM INTO THIS ROOM. COORDINATE EXACT LOCATION WITH OWNER'S I.T. EQUIPMENT.
- 3. RECEPTACLES AT APPROXIMATE 44" AFF ABOVE LOCKERS. COORDINATE EXACT HEIGHT WITH OWNER AND FURNITURE VENDOR.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH—IN FOR CARD ACCESS EQUIPMENT TO BE PROVIDED BY OTHERS. ROUGH—IN SHALL INCLUDE MOUNTING BOXES WITH BLANK FACEPLATES, LOW VOLTAGE WIRING, AND CONDUIT WITH PULL STRING COMPLETE TO ABOVE NEAREST ACCESSIBLE LAY—IN CEILING. OWNER'S VENDOR WILL PROVIDE AND INSTALL BOX MOUNTED DEVICES, AND TERMINATE, TEST AND LABEL ALL CABLING. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOW VOLTAGE WIRING REQUIRED FOR OWNER—PROVIDED DEVICE. COORDINATE MOUNTING HEIGHTS OF DEVICES WITH OWNER PRIOR TO BEGINNING ROUGH—INS. ALL EQUIPMENT TO BE PROVIDED BY THE OWNER'S LOW VOLTAGE VENDOR, NETWORK SOUTH. SEE DETAIL 4/E2.0.
- 5. POWER TRANSITION BOX WITH WHIP INTO FURNITURE SYSTEM FROM JUNCTION BOX IN WALL OR FLOOR BOX BELOW. COORDINATE POWER WITH CUBICLE FURNITURE SYSTEM AND COORDINATE EXACT LOCATION WITH FURNITURE VENDOR.
- 6. COORDINATE EXACT LOCATION OF RECEPTACLE FOR MICROWAVE INTEGRATED INTO CASEWORK WITH CASEWORK VENDOR.
- 7. UNDER SINK, COORDINATE EXACT LOCATION OF RECEPTACLE FOR DISHWASHER WITH CASEWORK VENDOR.
- 8. 240V, 60A, NON-FUSED 2P D.S. AT OVERHEAD WATER HEATER LOCATION. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
- 9. MOTOR-RATED SWITCH FOR RECIRCULATION PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
- 10. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH—IN FOR DOOR CAMERA EQUIPMENT TO BE PROVIDED BY OWNER. ROUGH—IN SHALL INCLUDE MOUNTING BOXES WITH BLANK FACEPLATES, LOW VOLTAGE WIRING, AND CONDUIT WITH PULL STRING COMPLETE TO ABOVE NEAREST ACCESSIBLE LAY—IN CEILING. OWNER'S VENDOR WILL PROVIDE AND INSTALL BOX MOUNTED DEVICES, AND TERMINATE, TEST AND LABEL ALL CABLING. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOW VOLTAGE WIRING REQUIRED FOR OWNER—PROVIDED DEVICE. COORDINATE MOUNTING HEIGHTS OF DEVICES WITH OWNER PRIOR TO BEGINNING ROUGH—INS. ALL EQUIPMENT TO BE PROVIDED BY THE OWNER'S LOW VOLTAGE VENDOR. SEE DETAIL 4/E2.0.
- 11. COORDINATE EXACT FLOOR BOX CORE DRILL LOCATIONS WITH STRUCTURAL DRAWINGS AND FURNITURE LOCATIONS. TYPICAL ALL FLOOR BOXES.
- 12. PROVIDE BREAKER HANDLE TIES IF FURNITURE BUS SHARES NEUTRAL.

RA	TED WALL LEGEND	
	1 HOUR FIRE BARRIER	

COORDINATE EXACT MOUNTING DETAILS, COLORS AND LENGTHS WITH ARCHITECTURAL DETAILS PRIOR TO ORDERING.
 ALL EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CIRCUITED TO THE LINE SIDE OF THE LOCAL AREA LIGHTING SWITCH.

6. EQUAL FIXTURES IN APPEARANCE, QUALITY AND PERFORMANCE MAY BE SUBMITTED UNLESS OTHERWISE NOTED BY THE ENGINEER, ARCHITECT OR OWNER.

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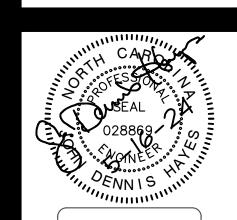
Lighting Plar

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID
1425 PROMISE
BEACON CIRCLE
SUITE 209
RALEIGH, NC

PROJECT NUMBER: EE# 23-046



MONDSON ENGINE

1920 Hwy. 54, Suite 700, Durham, NC 27713
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evisions

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Checked JDH
Date MAY 16, 2024

E1.2

FPB-2-18 (SUITE 201) 3/4" 12 12 12

480Y/ 277 VOLTS

EXISTING PANELBOARD IS SCHNEIDER ELECTRIC NF TYPE PANELBOARD

3 EXISTING TERMINAL BOX IN SHELL AREA OF SE PROMISE SUITE TO BE REUSED.

5 UTILIZE EXISTING SPARE BREAKER. CONFIRM MOCP WITH SUBMITTED EQUIPMENT.

2 CIRCUITS SHOWN IN BOLD TEXT ARE PART OF TENANT FIT-UP

4 PROVIDE NEW BREAKER.

6 RETURN SPARE BREAKER TO OWNER

400 BUSS AMPS X MLO

MCB AMPS N/A MCB

400 FEEDER AMPS

3/4" FPB-2-02A (SUITE 211) 1833 52

SURFACE MOUNT

35K AIC MINIMUM

NEMA 1

PHASE A:

PHASE B:

PHASE C:

TOTAL CONNECTED

TOTAL DEMAND *

58

60

71.43

71.97

66.82

210.22

180.66

SPACE

X GROUND BAR

252.97

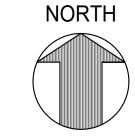
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SE RATED

SPACE

RATED WALL LEGEND

1 HOUR FIRE BARRIER



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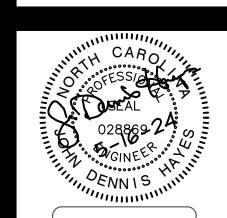
ower Renovation Plan

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER: EE# 23-046



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Orawn MS3
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E1.3

Mounting Heights & Configurations SCALE: NONE

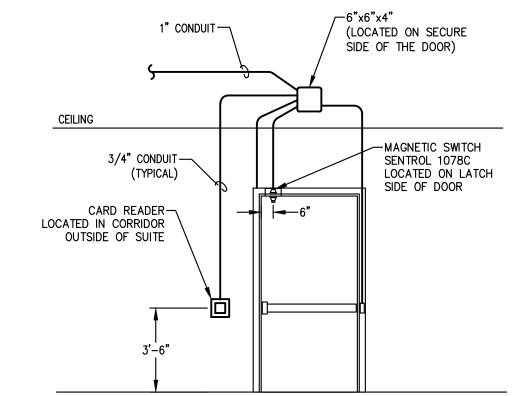
1" CONDUIT-SIDE OF THE DOOR) CEILING -MAGNETIC SWITCH SENTROL 1078C 3/4" CONDUIT— (TYPICAL) LOCATED ON LATCH SIDE OF DOOR CARD READER — LOCATED IN CORRIDOR OUTSIDE OF SUITE

Single Door Card Access Detail SCALE: NONE

PROVIDE (1) ELTS PER SWITCHED ZONE. TYPICAL ALL ZONES WITH '/EM' FIXTURES WITHOUT INTEGRAL BATTERIES (TYPE

D/EM AND TYPE E/EM).

- 1. COORDINATE EXACT ROUGH IN WITH ARCHITECTURAL PLANS AND DOOR
- 2. STUB CONDUIT OUT INTO CEILING OF TENANT SPACE (12' AFF).
- 3. PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.



PROJECT NUMBER: EE# 23-046

UPFIT FOR:

SELF-HELP

BEACON

POINT

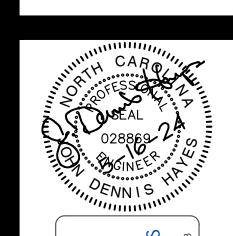
LEGAL AID 1425 PROMISE **BEACON CIRCLE** SUITE 209

RALEIGH, NC

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Details

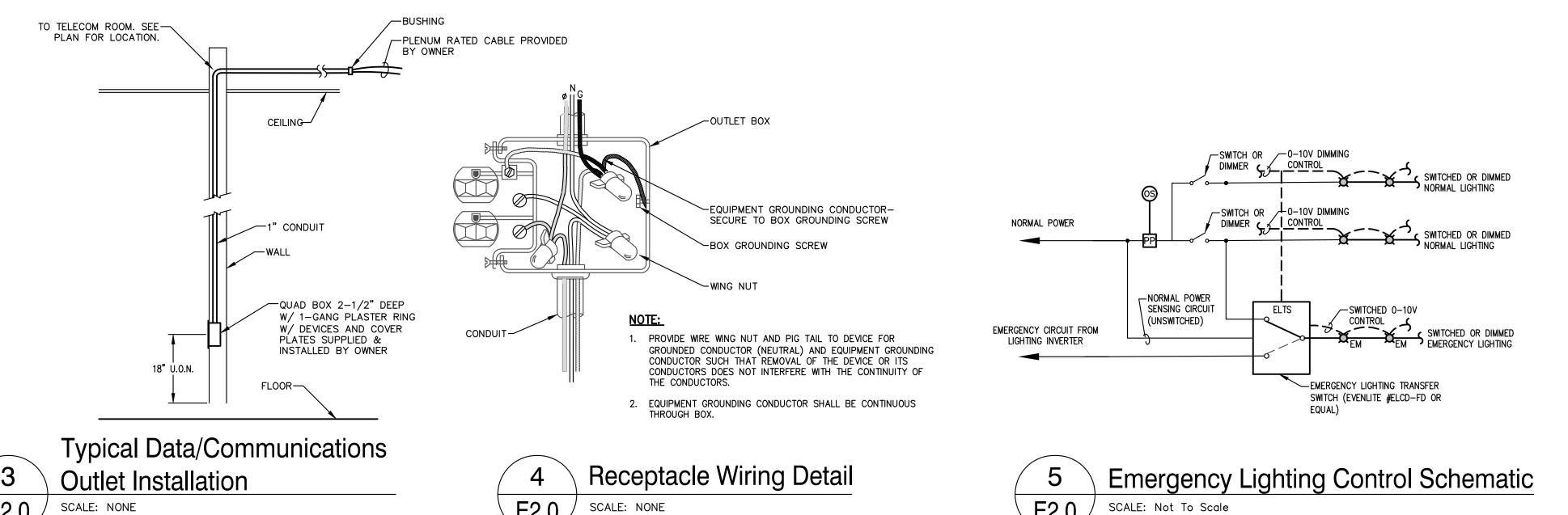


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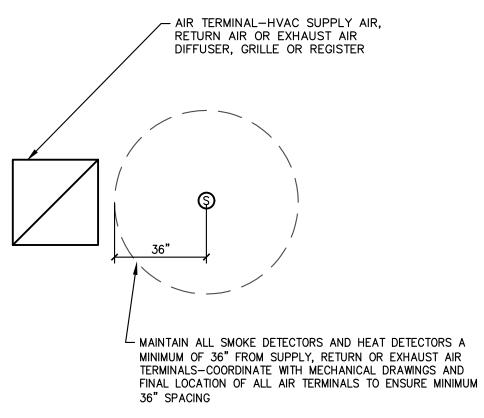
NORTH

RATED WALL LEGEND 1 HOUR FIRE BARRIER

FIRE ALARM ISOLATION MODULE, END OF LINE RESISTOR OR REMOTE ALARM INDICATOR LIGHT/TEST SWITCH PULL STATION SHALL BE MOUNTED-WITHIN 5' FROM EXTERIOR DOOR FIRE ALARM WHERE LOCATED AT AN EXIT WALL MOUNT VISIBLE NOTIFICATION DEVICE (STROBE OR HORN/STROBE) MANUAL FIRE ALARM PULL BOX **NOTES:** MOUNTING HEIGHTS ARE INDICATED TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

Mounting Heights & Configurations

FA1.0 SCALE: NONE



Smoke & Heat Detector
Clearance From Air Terminals
FA1.0

SCALE: NONE

FIRE ALARM NOTES:

THE FOLLOWING NOTES DETAIL THE GENERAL INTENT OF THE FIRE ALARM SCOPE OF WORK. THE FIRE ALARM SYSTEM SHALL FULLY COMPLY WITH THE PLANS AND SPECIFICATIONS AND ALL APPLICABLE CODES. THESE NOTES APPLY TO ALL FIRE ALARM SHEETS.

- 1. THIS PROJECT WILL ADD NEW INITIATION AND NOTIFICATION DEVICES TO AN EXISTING ADDRESSABLE FIRE ALARM SYSTEM AS REQUIRED FOR THE TENANT FIT-UP.
- 2. THIS RISER DIAGRAM DOES NOT ACCURATELY DEPICT THE NUMBER OF DEVICES REQUIRED TO BE INSTALLED. COUNT THE ACTUAL NUMBER OF DEVICES FROM THE
- 3. THE CONTRACTOR SHALL FURNISH ALL PARTS, MATERIALS, AND LABOR CUSTOMARILY REQUIRED OR PROVIDED FOR A COMPLETE AND OPERATING TURN—KEY SYSTEM INSTALLATION, IN ACCORDANCE WITH ALL REQUIREMENTS APPLICABLE, EVEN IF EACH NEEDED ITEM IS NOT SPECIFICALLY SHOWN OR DESCRIBED IN THE PROJECT PLANS OR SPECIFICATIONS
- 4. THE FIRE ALARM SYSTEM SHALL COMPLY WITH APPLICABLE PROVISIONS OF THE NC BUILDING CODE, NFPA 70 NATIONAL ELECTRICAL CODE (NEC), NFPA 72 NATIONAL FIRE ALARM CODE.
- 5. ALL WIRING SHALL TERMINATE AT DEVICE TERMINAL BLOCKS (NO SPLICES IN THE SYSTEM OTHER THAN TERMINAL BLOCKS). "WIRE NUTS" AND CRIMP SPLICES WILL NOT BE PERMITTED. PERMANENT WIRE MARKERS SHALL BE USED TO IDENTIFY ALL CONNECTIONS AND WIRE TERMINATIONS AT THE FACP AND OTHER CONTROL EQUIPMENT, NAC BOOSTER PANELS AND ANY APPLICABLE TERMINAL CABINETS.
- 6. MAINTAIN A MINIMUM OF 3' DISTANCE FROM ALL HVAC SUPPLY AND RETURN GRILLES WHEN INSTALLING SMOKE DETECTORS. COORDINATE WITH MECHANICAL
- FIRE ALARM WRING SHALL BE PLENUM RATED AND RUN AS OPEN CABLE ABOVE LAY-IN CEILINGS, NEATLY ROUTED AND SUPPORTED BY J-HOOKS EVERY 5'. WRING FROM FIRE ALARM DEVICES TO ABOVE CEILING SHALL BE RUN IN CONDUIT CONCEALED IN WALLS WITH WALL CONDUIT STUBBED OUT 6" ABOVE FINISHED CEILING. CONDUITS CARRYING CLASS 'A' WRING SHALL MAINTAIN A MINIMUM OF 4' SEPARATION BETWEEN OUTGOING AND RETURN LOOPS. WRING NOT ABOVE ACCESSIBLE CEILINGS SHALL BE IN CONDUIT.
- 8. ALL NOTIFICATION DEVICES WITH A STROBE COMPONENT MUST BE SYNCHRONIZED THROUGHOUT THE BUILDING.
- THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A COMPLETE SET OF SUBMITTALS AND SHOP DRAWINGS FOR THE ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL SHOW EQUIPMENT, MATERIAL LIST, DEVICE IDENTIFICATION NUMBERS AND LOCATIONS, AND CONNECTING WIRING OF ENTIRE FIRE ALARM SYSTEM. INCLUDE WIRING AND RISER DIAGRAMS AND SYSTEM RESPONSE MATRIX SHOWING SYSTEM INPUTS AND OUTPUTS. WIRING DIAGRAMS SHALL BE BASED ON THE PROJECT FLOOR PLANS WITH DEVICES AND PROPOSED CONDUIT ROUTING. PROVIDE BATTERY CALCULATIONS WITH THE REQUIRED STANDBY AND ALARM LOAD. PROVIDE NAC BOOSTER PANEL(S) AS SHOWN ON PLANS.
- 10. FIRE ALARM CONTRACTOR TO DETERMINE REQUIRED NUMBER OF CIRCUITS AND BATTERY SIZES FOR EMERGENCY BACKUP POWER. PROVIDE ADDITIONAL CIRCUITS, BATTERIES OR POWER SUPPLIES AS REQUIRED.
- 11. AT THE END OF THE PROJECT THE ENTIRE FIRE ALARM SYSTEM SHALL BE COMPLETELY TESTED IN THE PRESENCE OF THE LOCAL AHJ AS REQUIRED TO RECERTIFY THE SYSTEM IN ACCORDANCE WITH NFPA 72. PROVIDE 7 DAYS ADVANCE NOTICE OF THESE TESTS.
- 12. PROVIDE ADDITIONAL NFPA 72 RECORD OF COMPLETION FORM AND ZONE MAPS TO REFLECT MODIFIED SYSTEM.
- 13. CONTRACTOR IS RESPONSIBLE FOR DOL PERMIT AND ELEVATOR CONTRACTOR AS REQUIRED FOR DOL INSPECTIONS OF ELEVATOR FUNCTIONS AFTER FA SYSTEM MODIFICATIONS.

	FIRE ALARM SYMBOLS
SYMBOL	DESCRIPTION
S	SMOKE DETECTOR
Θ	HEAT DETECTOR
E	MANUAL PULL STATION
₩ #	VISUAL ONLY NOTIFICATION DEVICE (# INDICATES CANDELA)
E1 #	HORN AND STROBE NOTIFICATION DEVICE (# INDICATES CANDELA)
ER	EXISTING RELOCATED

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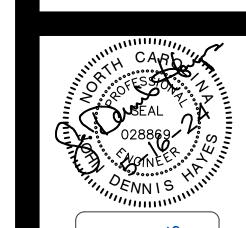
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UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER: EE# 23-046



D M O N D S O N E N G I N E E F 1920 Hwy. 54, Suite 700, Durham, NC 27713 h. 919-544-1936 · Fax 919-544-2540 · License: C-18



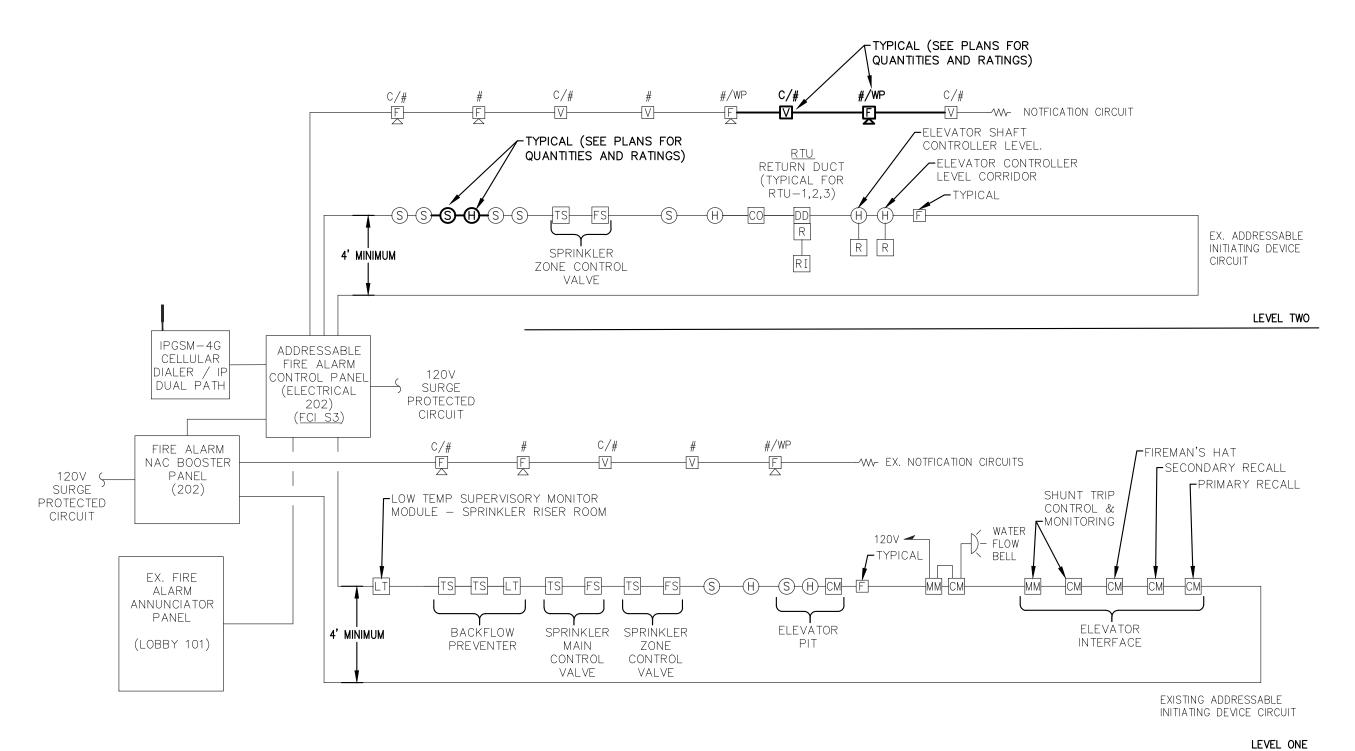
C.D.'s FOR BID

visions

919.317.4020

Drawn MS3
Checked JDH

Date MAY 16, 2024
Sheet FA1.0



Fire Alarm Riser

.0 SCALE: NONE MIXED USE BUILDING

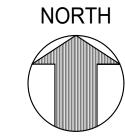
RATED WALL LEGEND

1 HOUR FIRE BARRIER

4 SHELL FIRE ALARM DEVICES IN FIT-UP AREA TO BE REUSED WHERE APPLICABLE. ANY UNUSED DEVICES TO BE TURNED OVER TO OWNER.

RATED WALL LEGEND

1 HOUR FIRE BARRIER



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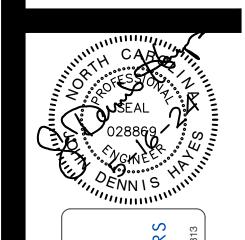
ire Alarm Pla

UPFIT FOR:

SELF-HELP BEACON POINT

LEGAL AID 1425 PROMISE BEACON CIRCLE SUITE 209 RALEIGH, NC

PROJECT NUMBER: EE# 23-046



OMONDSON ENGINE

Architects & Planners, Ltd.

3333 Durham-Chapel Hill Blvd
Suite D-100
Durham, NC 27707
919.317.4020

C.D.'s FOR BID

evisions

Drawn MS3
Checked JDH

MAY 16, 2024
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FA1.1

Sprinkler Design Data

Project Name: LEGAL AID		System: WET
Project Street Address: 1440 ROCK QL	ARRY RD., RALEIGH, NC 27610	Sys. Sq. Ft.: 20,000 PER FLOOR +/-
Suite: -	Floor#: 2	Ceiling Height: VARIES
Designed By: J&D SPRINKLER CO.	Phone: 919.553.2356	Total Bldg. Hgt.: 31'-0 +/-
Occupancy: OFFICE	Hazard: LIGHT HAZARD	

Design Summary

	System #1	System #2	System #3	System #4	System #5	
Design Method	CALCULATED	CALCULATED	-	-	-	
Design Area #	Α	Α	-	-	-	
Location	OFFICE	OFFICE	-	-	-	
Type of System	WET	WET	-	-	-	
Hazard Class LIGHT LIGH		LIGHT	-	-	-	
Criteria From NFPA 13 (2013)		NFPA 13 (2013)	-	-	-	
Design Area 1500 SF		900 SF	-	-	-	
Sprinkler Spacing	225 MAX	225 MAX	-	-	-	
Density	0.10	0.10	-	-	-	
K-factor	5.6	5.6	-	-	-	
Hose Allowance	100	100	-	-	-	
# Design Sprinklers	16	11	-	-	-	
Special Application Spk.	-	-	-	-	-	
Requirement @ TEST						
G.P.M. Req'd	440.27	333.20	-	-	-	
P.S.I. Req'd	94.395	74.991	=	-	-	
Requirement @ BASE						
GPM Required	340.27	233.20	-	-	-	
PSI Required	77.578	58.719	-	-	-	
Safety factor @ Test	12.450	32.180	-	-	-	
Dry Sys. Volume (gal)	-		_	_	_	

Water Supply Information

Tested by EPM		Date/Time	04.29.2022	Pressure Hydrant -		
Hydrant Elevation	-	Flow Hydrant # 1	-	Flow Hydrant #2	-	
Static (PSI)	107.7	Residiual (PSI)	95.1	Flow (gpm)	1850	
	Сору	of Water Test Data Inclu	ded with Calculation is	required		

Fire Pump Data

Rated G.P.M.		Rated Pressure		Horsepower	/
Diesel/Electric		Churn Pressure	-	Style of pump	-
Combined Discharge	-	150%%% Flow (suction	n)	150%%% Flow (gpm)	/
		Certified pum	p curve required		

If Storage is Greater than 12 Feet Complete Commodity Storage Design Information

Comodity Description _			Storage Type (F			(Rack,Bin,Pile)	_			
Como	Comodity Class _ Storage		Storage Height _			Clearance				
Stable/Unstable				Open/Close				Wet/Dry		
		-		Arra	y			System	-	
Figure #	Curve #		Density	Height	Clear	Array	Dry	Design	Minimum	Final
-	_	-	Area	Factor	Factor	Factor	Penalty		Design	Desig
		Initial	-	-	-	-	-		-	-
			-	-	-	-	-			-
		Secon	-	-	-	-	-	-		-
		-dary	-	-	-	-	-	-	-	
Is syster	n compliant wit	h Chapter 23 (F	PC)	_	Is st	orage area layo	ut, rack, and pi	le plan included	?	

		HANG	ER INS	TALLAT	TION RI	EQUIR	EMENT	S		
		MA	XIMUM [DISTANCE	BETWE	EN HANG	SERS			
	NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
	BLAZEMASTER CPVC	5' 6"	6' 0"	6' 6"	7' 0"	8' 0"	9' 0"	10' 0"	N/A	N/A
H	IREADABLE LIGHTWA	LL N/A	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	N/A	N/A
	STEEL PIPE (10/ 40)	N/A	12' 0"	12' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"

100 PSI STATIC PRESSURE ON SYSTEM REQUIRES UP-LIFT RESTRAINT WITHIN 12 INCHES HORIZONTALLY OF HEAD FOR ARM-OVERS AND END OF BRANCH LINE

THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP, OR SPRIG-UP SHALL NOT EXCEED 24"

SPAN OF TRAPEZE			NOMINA	L PIPE S	IZE SUPI	PORTED		
(Schedule 10)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
1 FT. 6 IN.	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"
2 FT. 0 IN.	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"
2 FT. 6 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"
3 FT. 0 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	2"
4 FT. 0 IN.	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2"
5 FT. 0 IN.	2"	2"	2"	2"	2"	2"	2-1/2"	2-1/2"
6 FT. 0 IN.	2"	2"	2"	2"	2"	2-1/2"	2-1/2"	3"
7 FT. 0 IN.	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
8 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
9 FT. O IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	4"
10 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	4"

GENERAL NOTES:

1. MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE NFPA CODES (2013), STATE BUILDING CODE, LOCAL AUTHORITY HAVING JURISDICTION, AND INSURANCE UNDERWRITER'S REQUIREMENTS.

2. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED FOR THE INTENDED USE AND SHALL BE INSTALLED IN FULL COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.

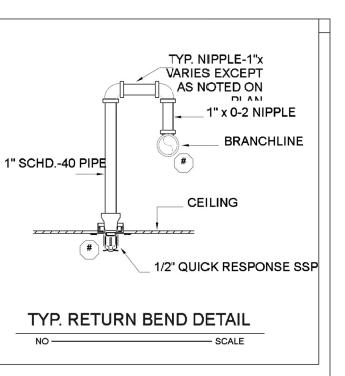
3. ALL NEW SPRINKLER PIPE 11/4" AND SMALLER IS SCHEDULE-40 BLACK STEEL WITH THREADED ENDS AND FITTINGS. ALL NEW SPRINKLER PIPE 11/2" AND LARGER IS SCHEDULE-10 BLACK STEEL WITH GROOVED ENDS AND FITTINGS.

4. SPRINKLER HEAD SPACING IN OFFICE AREA IS BASED ON THE NFPA 13 2013 STANDARDS FOR LIGHT HAZARD OCCUPANCIES ALLOWING A MAXIMUM HEAD SPACING OF 225 S.F. PER HEAD.

5. LOCATIONS OF PIPING AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD.

6. THE WATER TEST INFORMATION HAS BEEN PROVIDED BY ENGINEERING PLANNING AND MANAGEMENT DATED 04.29.2022 INDICATES THE FOLLOWING...

107.7 PSI STATIC: RESIDUAL: 95.1 PSI FLOW: 1850 GPM



4" AND SMALLER PIPE DIAMETER

3/8" BEAM CLAMP

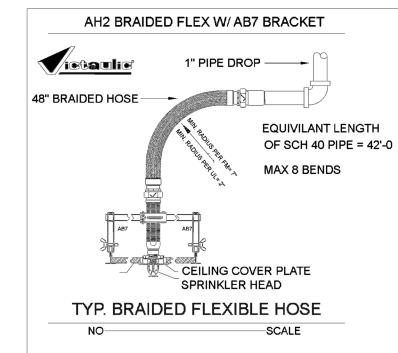
_ 3/8" ALL THREAD ROD

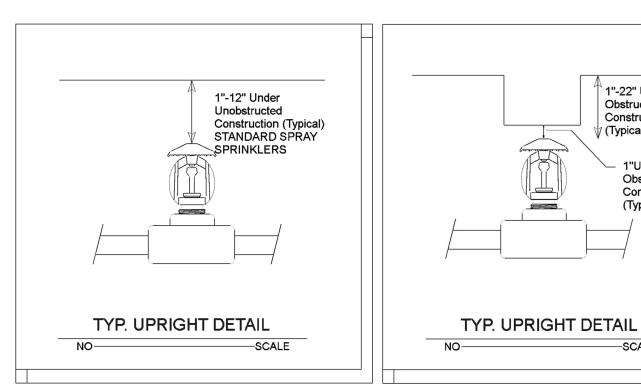
ADJUSTABLE RING

HANGER

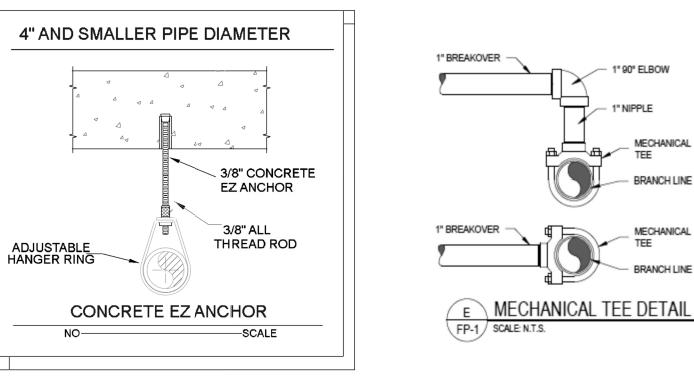
----SCALE

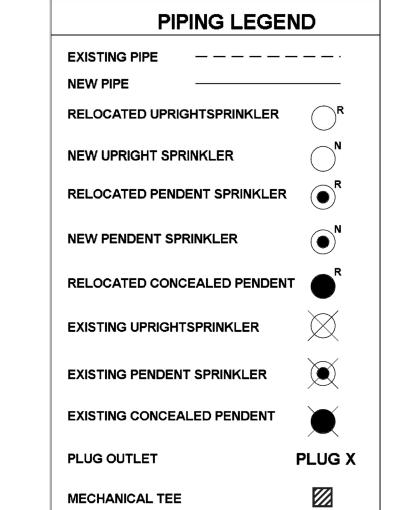
TOP BEAM CLAMP, ROD AND RING

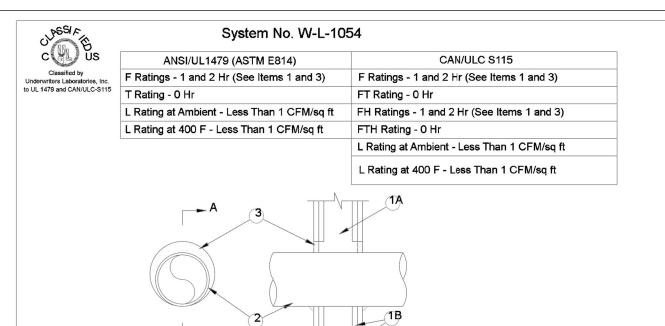




1" 90° ELBOW







SECTION A-A 1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152

mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.

B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance

Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. 2. Through-Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly

supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.

Obstructed

Construction

1"Under Obstructed Construction (Typical)

(Typical)

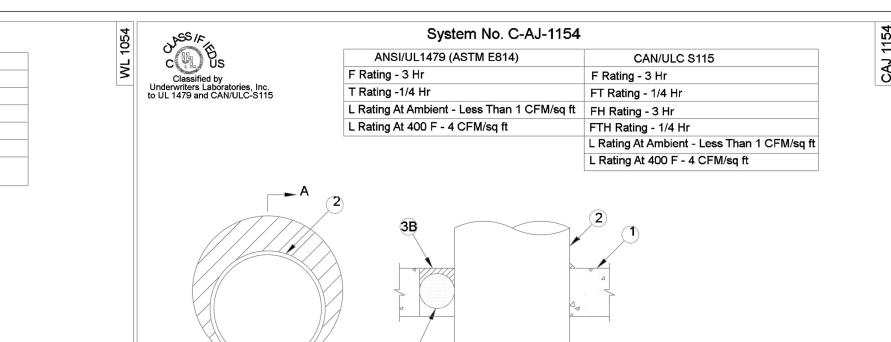
C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit. D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),





Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 14 in. (356 mm).
 See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
 Through-Penetrants - One metallic pipe, conduit or tubing to the concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 3-1/4 in. (83 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing move by used:

SECTION A-A

following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Conduit - Nom 4 in. (254 mm) diam (or smaller) steel electrical metallic tubing or steel conduit. c. Copper Tubing - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

D. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe

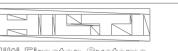
 Firestop System - The firestop system shall consist of the following:

 A. Packing Material - Mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall to accommodate the required thickness of fill material. As an option to the above, backer rod

 and/or foamed plastic backer material may be used.

B. Fill, Void or Cavity Material* - Sealant - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.

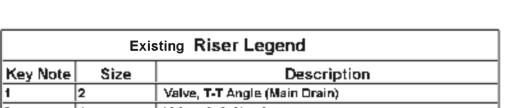
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC I FS-ONE Sealant or FS-ONE MAX Intumescent Sealant Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),



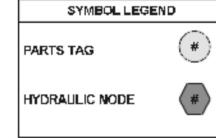
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 06, 2015



RISER DETAIL 1/2"=1"-0



2	4	Valve, G-G Check
3	4	Valve, G-G Riser Check (Viking Easy Riser W/ Trim)
4	4	Valve, G-G Butterfly
5	4 x 2½ x 2½	FDC, Exposed, Storz
6	4 x 2	Waterflow Detector
	SYMBOL LEGEN	ID
		! ## i





SPRINKLER (
. MAIN ST., CLAYTOR
(919)553-2356 FAX:

DANA GRAHAM

NC # 16269FS CERT # 71075 NICET LEVEL III JASON GRAHAM

NC # 16269FS CERT # 12184 NICET LEVEL I **REVISION:** DATE

05.15.2024

1/8"=1'-0"

Job Number:

F24054 Drawn By:

BKB

Sheet Number

FP1 OF 4

SPRINKLER (
. MAIN ST., CLAYTOR
. (919)553-2356 FAX:

919-553-2356 ATRE PROTECT DANA GRAHAM

NC # 16269FS CERT # 71075 NICET LEVEL III

JASON GRAHAM

NC # 16269FS CERT # 121842
NICET LEVEL III REVISION:
NO. DATE

Date: **05.15.2024**

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

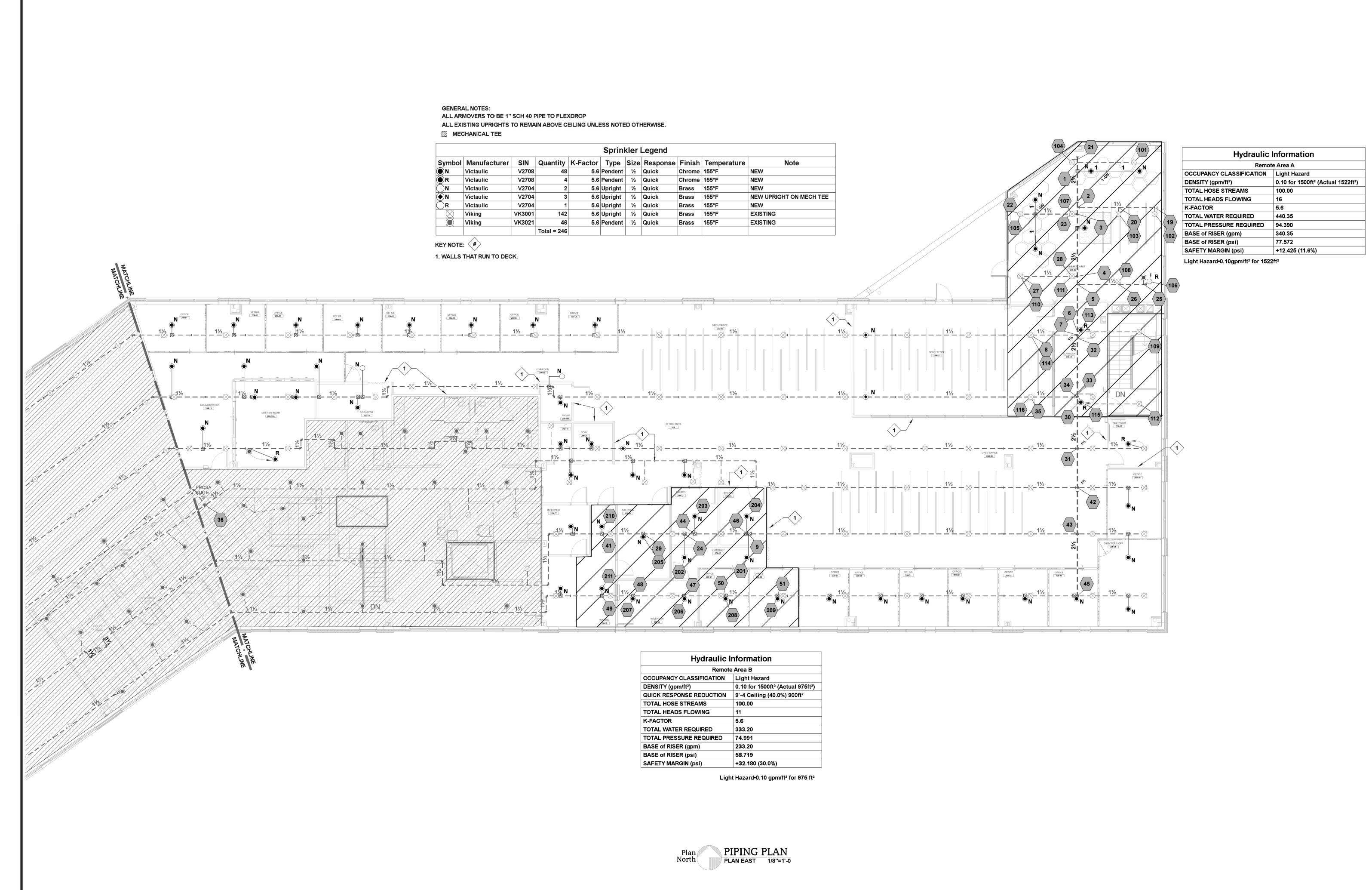
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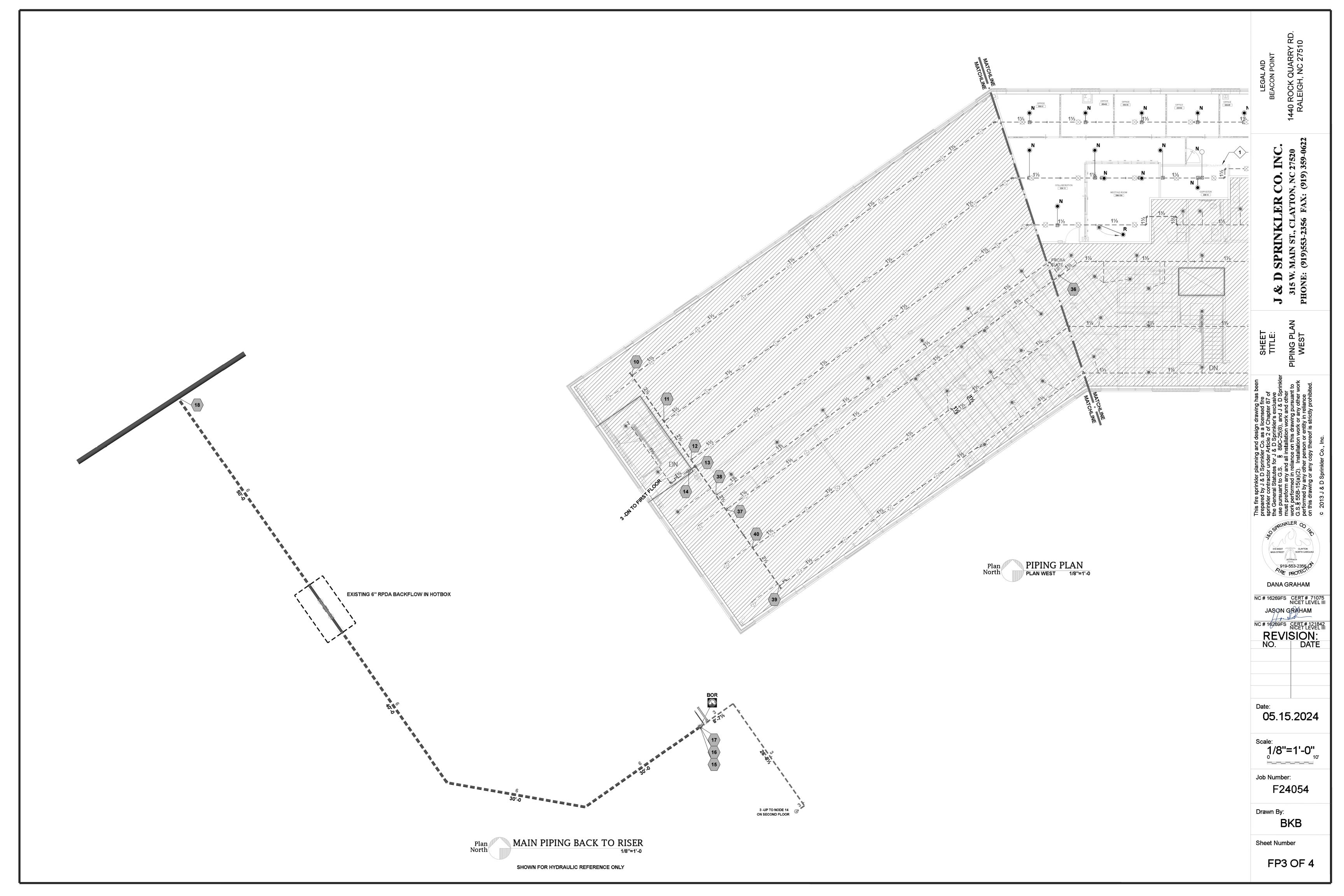
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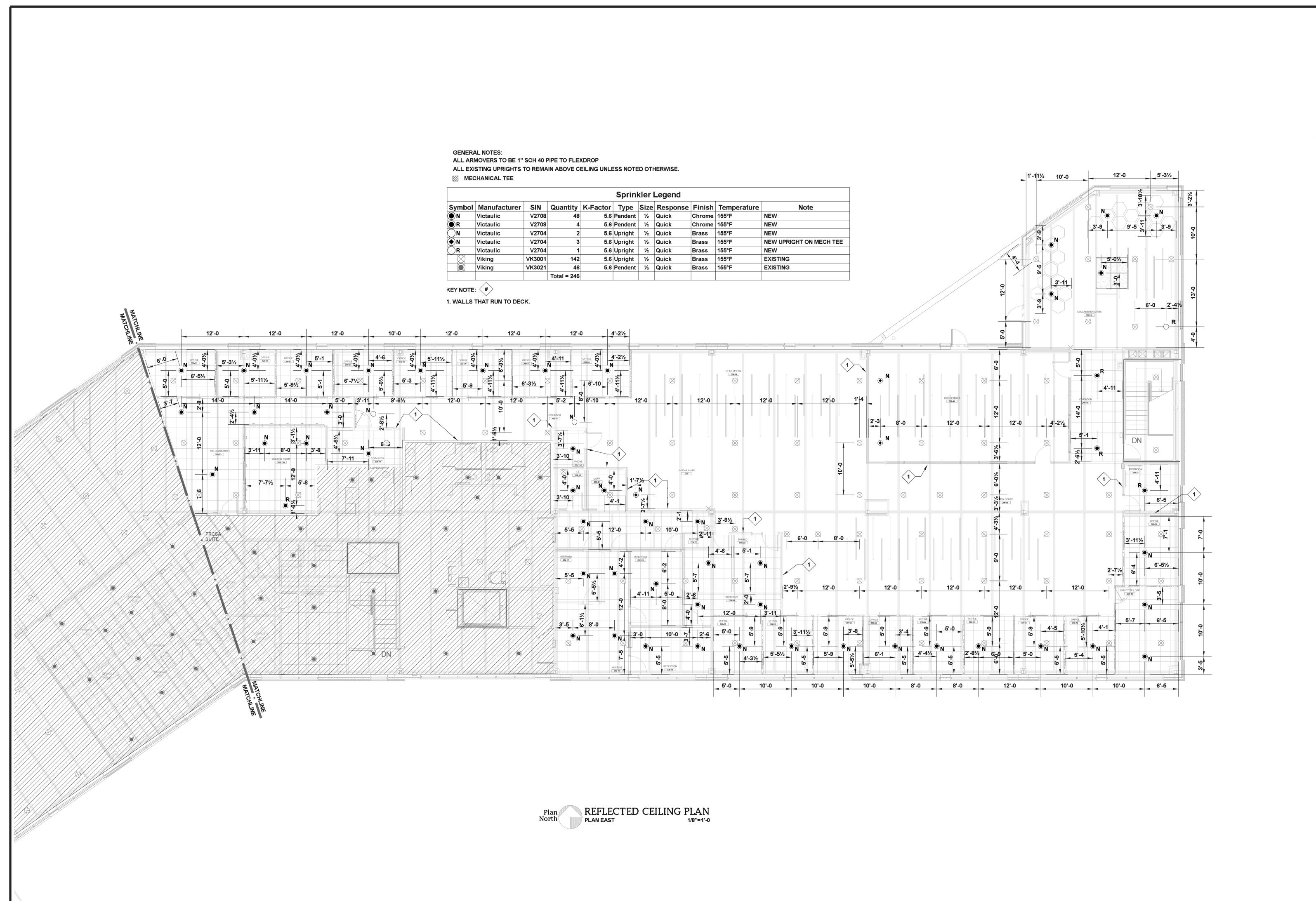
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Sheet Number

FP2 OF 4







1440 ROCK QUARRY RD RALEIGH, NC 27510

919-553-2356 O DANA GRAHAM NC # 16269FS CERT # 71075 NICET LEVEL III JASON GRAHAM

NC # 16269FS CERT # 121842 NICET LEVEL III REVISION: NO. DATE

Date: **05.15.2024**

Scale: 1/8"=1'-0" Job Number:

F24054

Drawn By: BKB

Sheet Number

FP4 OF 4