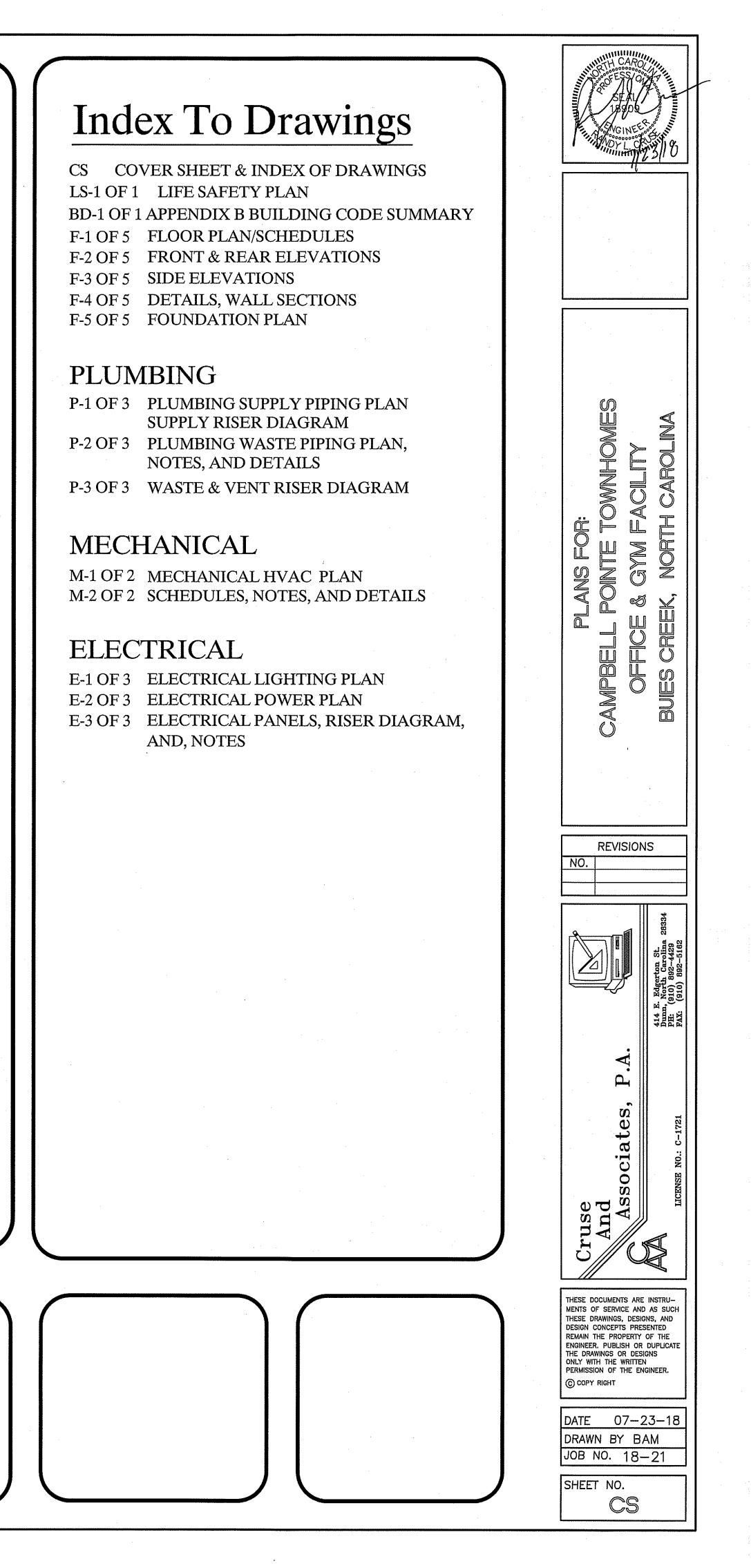
CAMPBELL POINTE TOWNHOMES OFFICE & GYM FACILITY

Approved button 09/25/2018

BUIES CREEK, NORTH CAROLINA

CONSULTANTS:

CRUSE AND ASSOCIATES, P.A. 414 EAST EDGERTON ST. DUNN, N.C. 28334 TEL (910) 892-4429 FAX (910) 892-5162



	BUILDIN FOR ALL CO	2 APPENDIX B G CODE SUMMARY DMMERCIAL PROJECTS FAMILY DWELLINGS AND			
	CENCERT THIS E				_
PROPOSED USE: BUSINESS	NORTH CAROLINA				
WNER OR AUTHORIZED AGENT: JASO		PHONE #: (910) 8			AHOO.COM
WNED BY:	CITY/COUNTY CITY	PRIVATE	HARNETT S		
EAD DESIGN PROFESSIONAL:		··· · <u></u> · · · · · ·			
DESIGNER	FIRM	NAME	U	TELEPHONE NO.	
	R ADEN ASSOCIATE	· · ·	041595		AMERICLE@DAA.COM
UILDING CRUSE	& ASSOCIATES, F & ASSOCIATES, F			(910) 892-4429 (910) 892-4429	RCRUSE@CRUSEASSOCIATES.CO RCRUSE@CRUSEASSOCIATES.CO
LUMBING CRUSE	& ASSOCIATES, F	P.A. RANDY CRUSE, PI	E <u>18909</u>	(910) 892-4429	
ECHANICAL CRUSE TRUCTURAL (FOUNDATION) CRUSE	& ASSOCIATES, F & ASSOCIATES, F			(910) 892-4429 (910) 892-4429	RCRUSE@CRUSEASSOCIATES.CO RCRUSE@CRUSEASSOCIATES.CO
PRINKLER-STANDPIPE					
RE ALARM ETAINING WALLS >5' HIGH					
HER			·····		
ENOVATED: CURRE ASIC BUILDING DATA: DNSTRUCTION TYPE: □ I-A	ALTERATION	N ☐ REPAIR PROPOSED USE(S):	'-A	NC	
] IIIB ⊠ V	-8		
STANDPIPES: ⊠ NO □ YES TRE DISTRICT ⊠ NO □ YES BUILDING HEIGHT: <u>32'-0"</u> FEET	(PRIMARY)		A 13R 🖾 NFPA 13E DRY 🗆 NO 🗀 YES)	
ROSS BUILDING AREA: LOOR EXISTING (SQ FT)		NEW (SQ FT)	SUB-TOTAL		
Th Floor <u>N/A</u> Th Floor <u>N/A</u>					
TH FLOOR <u>N/A</u> RD FLOOR <u>N/A</u>					
ND FLOOR N/A			······································	·····	
EZZANINE <u>N/A</u> ST FLOOR <u>N/A</u>		4,105	4,105		
ASEMENT <u>N/A</u>					
TOTAL GROSS AREA:	4,105				
STORAGE S-1 MOI	DERATE 🗆 S-2 LO 🗆 PARKING	GARAGE 🗆 OPEN		🗆 REPAIR GARA	GE
INSTITUTIONAL I-1	FONATE □ H-2 DE □ I-2 □ ION □ 1 □	□ A-2 □ A-3 □ A ACTORY □ F-1 MODERA FLAGRATE □ H-3 COMBUS □ I-3 □ I-4 □ 2 □ 3 □ 4 □ R-1 □ R-2 □ R	T 🗆 H-4 HEALTH	🗆 H-5 HPM	
	DERATE 🗔 S-2 LO				GE
CIDENTAL USES (TABLE 508.2.5): FURNACE ROOM WHERE ANY I ROOMS WITH BOILERS WHERE REFRIGERANT MACHINE ROOM HYDROGEN CUTOFF ROOMS, N INCINERATOR ROOMS PAINT SHOPS NOT CLASSIFIED LABORATORIES AND VOCATION LAUNDRY ROOMS OVER 100 S GROUP I-3 CELLS EQUIPPED GROUP I-2 WASTE AND LINEN WASTE AND LINEN COLLECTION STATIONARY STORAGE BATTER ION CAPACITY OF 1,000 POUN ROOMS CONTAINING FIRE PUM GROUP I-2 STORAGE ROOMS GROUP I-2 COMMERCIAL KITC GROUP I-2 LAUNDRIES EQUAL GROUP I-2 ROOMS OR SPACE	THE LARGEST PIEC OT CLASSIFIED AS AS GROUP H, LOO IAL SHOPS, NOT CL QUARE FEET WITH PADDED SURF I COLLECTION ROOM N ROOMS OVER 100 RY SYSTEMS HAVING IDS USED FOR FAC PS OVER 100 SQUARE HENS TO OR LESS THAT	E OF EQUIPMENT IS OVER 1 GROUP H CATED IN OTHER THAN GROU ASSIFIED AS GROUP H LOC ACES AS O SQUARE FEET G A LIQUID ELECTROLYTE CA ILITY STANDBY POWER, EME FEET N 100 SQUARE FEET	5 PSI AND 10 HORSEF JP F ATED IN A GROUP E C APACITY OF MORE THA RGENCY POWER OR UN	NR 1-2 OCCUPANC	R A LITHIUM-
PECIAL USES: 402 403 413 414	3 415 🖾 416 🖸	☐ 406 □ 407 □ 408 □ 417 □ 418 □ 419	□ 409 □ 410 □ □ 420 □ 421 □		
□ 424 □ 425 □ PECIAL PROVISIONS: □ 509.2] 426 □ 427 □ 509.3 □ 50)9.4 🗖 509.5 🗂 509.4	3 🗆 509.7 🔲 50	9.8 🗆 509.9	
IXED OCCUPANCY: 🖾 NO	TYES SEPAR		10N:		
		INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE	
TYPE OF CONSTRUCTION	TYPE V-B				
	TEET 40	FEET = H + 20' =	24'-3"		
BUILDING HEIGHT IN STORIES	STORIES <u>2</u>	STORIES + 1 =	STORIES 1		
☐ NON-SEPARATED USE (THE REQUIRED TYPE OF THE HEIGHT AND AREA	T EXEMPT AS À NO 508.3) CONSTRUCTION FOR LIMITATIONS FOR EA	ON-SEPARATED USE (SEE E) R THE BUILDING SHALL BE E ACH OF THE APPLICABLE OC F CONSTRUCTION, SO DETER	DETERMINED BY APPLY COUPANCIES TO THE EN	NTIRE	
THE ENTIRE BUILDING.					

· .

□ SEPARATED USE (508.4) -SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

 $\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$

•••

_____ + _____ + = _____ ≤1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ⁵ AREA	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA
1	A3	4,108	6000				6000

¹ OPEN SPACE 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) E. PERCENT OF FRONTAGE INCREASE $I_F = 100 [F/P - 0.25] \times W/30 = _____ (\%)$

² THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS:

A. MULTI-STORY BUILDING IS = 200 PERCENT

B. SINGLE STORY BUILDING $i_s = 300$ PERCENT

³ UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTIONS 507.

⁴MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING $x \in (506.4)$.

⁵ THE MAXIMUM AREA OF PARKING GARAGES MUST COMPLY WITH 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH 412.1.2.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE		RATING	DETAIL	DESIGN #	DESIGN # FOR	DESIGN
	SEPARATION	REQ'D	PROVIDED	IAND	FOR	RATED	# FOR
	DISTANCE		(W/*	SHEET	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)	#	ASSEMBLY		JOINTS
STRUCTURAL FRAME,							
INCLUDING COLUMNS,	_	0		—	-	-	_
GIRDERS, TRUSSES							
BEARING WALLS	—	_					
EXTERIOR	-		-	-			
NORTH		0	—	-	—	-	-
EAST		0	-	-	-		-
WEST		0		-	—		
SOUTH		0		-	-		-
INTERIOR	-	0				- 1	
NONBEARING WALLS & PARTITIONS		-					
EXTERIOR		0		-		_	
NORTH		0		<u> </u>			
EAST	—	0	—	-	—	—	—
WEST		0		+			
SOUTH	_	0	—	—	—	—	Ť
INTERIOR	—	0	-	-	-	-	
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0				-	_
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0					
SHAFT ENCLOSURES-EXIT		-				-	
SHAFT ENCLOSURES-OTHER		-		-	·		4
CORRIDOR SEPARATION		0					
OCCUPANCY SEPARATION					-	-	-
PARTY/FIRE WALL SEPARATION		-		_		—	
SMOKE BARRIER SEPARATION		_					
TENANT SEPARATION							
INCIDENTAL USE SEPARATION							

*INDICATE SECTION NUMBER PERMITTING REDUCTION

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING:		X YES
EXIT SIGNS:	🗖 NO	🖾 YES
FIRE ALARM:	🖾 NO	🗆 YES
SMOKE DETECTION SYSTEMS:	🖾 NO	🗆 YES
PANIC HARDWARE:	🖾 NO	🗆 YES

LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET #, IF PROVIDED LSP-1 OF 1

ACCESSIBLE DWELLING UNITS N/A (SECTION 1107)

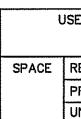
			(SEI		()		
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	type B Units Provided	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING-SEE SITE PLAN (SECTION 1106)

		(3)	ECTION TIOU							
LOT OR PARKING AREA	TOTAL # OF	PARKING SPACES	# OF ACCESSIBL	# OF ACCESSIBLE SPACES PROVIDED						
	REQUIRED	PROVIDED	REGULAR WITH 5'	VAN SPACES	WITH	ACCESSIBLE				
			ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED				
PROPOSED BUILDING	13	13	1		1	2				
TOTAL	13	13	1		1	2				

DESIGN IMPORTAN





SPECIAL APF SPECIAL APPRO

Su

DESIGN LOADS: IMPORTANCE FACTORS		
	STRUCTURAL DESIGN WIND (I _W) <u>1.0</u> SNOW (I _S) <u>1.0</u>	HILL CARO
LIVE LOADS:	SEISMIC (I _E) <u>1.0</u> ROOF <u>20</u> PSF	BEAL No209
	MEZZANINE <u>N/A</u> PSF FLOOR <u>100</u> PSF	HILL SO MOINEE COOL
GROUND SNOW LOAD:	<u>15</u> PSF	1 minute 12
WIND LOAD:	BASIC WIND SPEED MPH (ASCE-7)	
	EXSPOSURE CATEGORY \underline{C} WND BASE SHEARS (FOR MWFRS) $Vx = $ $Vy = $	
CONFORM TO SECT PROVIDE THE FOLLOWIN	ION 2308 IG SEISMIC DESIGN PARAMETERS:	
OCCL	IPANCY CATEGORY (TABLE 1604.5) 🖾 I 🗆 II 🗆 III 🗆 IV	
	TRAL RESPONSE ACCELERATION $S_s 11.4 \ \%g$ $S_1 5.1 \ \%g$ TABLE 1613.5.2) \Box A \Box B \Box C 🖾 D \Box E	
·	DATA SOURCE: 🖾 FIELD TEST 🖾 PRESUMPTIVE 🖾 HISTORICAL DATA	
BASI	C STRUCTURAL SYSTEM (CHECK ONE) BEARING WALL DUAL W/SPECIAL MOMENT FRAME	
	BUILDING FRAME DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL MOMENT FRAME INVERTED PENDULUM	
SEIS	MIC BASE SHEAR: NOT APPLICABLE - COMPLIANCE WITH SECTION 2308 OF THE NCSBC.	
	YSIS PROCEDURE SIMPLIFIEDEQUIVALENT LATERAL FORCEDYNAMIC	
ARCH	ITECTURAL, MECHANICAL, COMPONENTS ANCHORED? NOT APPLICABLE – COMPLIANCE WITH SECTION 2308 OF THE NCSBC.	S
LATERAL DESIGN C	ONTROL: EARTHQUAKE II WIND 🖾	
SOIL BEARING CAP		
FIELD	TEST (PROVIDE COPY OF TEST REPORT) PSF	Ĭ É Ø
	IMPTIVE BEARING CAPACITY 2,000 PSF SIZE, TYPE, AND CAPACITY	
PILE 3		
SPECIAL INSPECTIO	NS REQUIRED: YES INO	ļģĔĨĔ
	PLUMBING FIXTURE REQUIREMENTS	IŶШ≥ĔІ
USE	VATERCLOSETS URINALS LAVATORIES SHOWERS/ DRINKING FOUNTAINS	ST N N N N N N N N N N N N N N N N N N N
	MALE FEMALE MALE MALE FEMALE TUBS REGULAR ACCESSIBLE	
SPACE REQUIRED	1 2 1 1 1 0 1 1	H H H H H H H H H H H H H H H H H H H
PROVIDED	<u>1 2 1 2 2 0 1 1</u>	
UNISEX		
SPECIAL APPROVALS SPECIAL APPROVAL: (LOCA	L JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)	AMP AMPB BUIES O F T O F O F O F O F O F O F O F O F O F O F
444664 ()		
ENERGY REQUIREMENTS: THE FOLLOWING DATA SHALL	BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL	
ALSO BE PROVIDED. EACH DE	SIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. ATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE	
PROPOSED DESIGN.		REVISIONS
CLIMATE ZONE:	3 3A 4A 5	
THERMAL ENVELOPE		NO.
METHOD OF COMPLIANCE:		
	PRESCRIPTIVE% GLAZED WALL AREA	NO. 1. 09/24/2018
ROOF/CEILING ASSEMBLY (E	PRESCRIPTIVE% GLAZED WALL AREA PERFORMANCE, 2010 ASHRAE 90.1 ENERGY COST BUDGET ACH ASSEMBLY):	NO.
ROOF/CEILING ASSEMBLY (EA DESCRIPTION OF ASSEMB	ACH ASSEMBLY): _Y	NO. 1. 09/24/2018
RODF/CEILING ASSEMBLY (EC DESCRIPTION OF ASSEMB U-VALUE OF TOTAL ASSI SKYLIGHTS IN EACH ASSI	ACH ASSEMBLY): _Y	NO. 1. 09/24/2018
RODF/CEILING ASSEMBLY (EA DESCRIPTION OF ASSEMB U-VALUE OF TOTAL ASSI SKYLIGHTS IN EACH ASSI TOTAL SQUARE FOOTAGE EXTERIOR WALLS (EACH ASS	ACH ASSEMBLY): Y WOOD TRUSS/ASPHALT SHINGLE EMBLY 0.022 R-VALUE OF INSULATION: R-46 EMBLY N/A U-VALUE OF SKYLIGHT: N/A OF SKYLIGHTS IN EACH ASSEMBLY N/A EMBLY SIN EACH ASSEMBLY N/A	NO. 1. 09/24/2018
RUDF/CEILING ASSEMBLY (EA DESCRIPTION OF ASSEMB U-VALUE OF TOTAL ASSI SKYLIGHTS IN EACH ASSI TOTAL SQUARE FOOTAGE EXTERIOR WALLS (EACH ASSI DESCRIPTION OF ASSEMB U-VALUE OF TOTAL ASSI	ACH ASSEMBLY) Y WOOD TRUSS/ASPHALT SHINGLE EMBLY 0.022 R-VALUE OF INSULATION R-46 EMBLY N/A U-VALUE OF SKYLIGHT, N/A OF SKYLIGHTS IN EACH ASSEMBLY N/A EMBLY 0.038 R-VALUE OF INSULATION R19+R7 CONTINOUS INS.	NO. 1. 09/57/57/60 1. 1. 001/10 28334 2. (910) 892-5162 2. (910) 892-5162 2. (910) 892-5162
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RUDF/CEILING ASSEMBLY (EA DESCRIPTION OF ASSEMB U-VALUE OF TOTAL ASSI SKYLIGHTS IN EACH ASSI TOTAL SQUARE FOOTAGE EXTERIOR WALLS (EACH ASS DESCRIPTION OF ASSEMB U-VALUE OF TOTAL ASSI OPENINGS (WINDOWS OR U-VALUE OF ASSEMBL PROJECTION FACTOR	ACH ASSEMBLY:	NO. 1. 09/24/2018 1. 000, 892–4429 FH: (910) 892–5162 FAX: (910) 892–5162
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ROOF/CEILING ASSEMBLY (EA DESCRIPTION OF ASSEMBL U-VALUE OF TOTAL ASSI SKYLIGHTS IN EACH ASSI TOTAL SQUARE FOOTAGE EXTERIOR WALLS (EACH ASSI DESCRIPTION OF ASSEMBL U-VALUE OF TOTAL ASSI OPENINGS (WINDOWS OR U-VALUE OF ASSEMBL PROJECTION FACTOR DOOR R-VALUES WALLS ADJACENT TO UNCON DESCRIPTION OF ASSEMBL U-VALUE OF TOTAL ASSI	ACH ASSEMBLY): _Y _WDDD_TRUSS/ASPHALT_SHINGLE EMBLY: _0.022 _R-VALUE_DF_INSULATION: <u>R-46</u> EMBLY	NO. 1. 09/24/2018 1. 000, 892–4429 FH: (910) 892–5162 FAX: (910) 892–5162
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☑ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) (SEE NOTE 1)

X ASSUMED AND REAL PROPERTY LINE LOCATIONS - SEE NOTE 2 X EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) - SEE NOTE 3

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🖾 EXISTING STRUCTURES WITHIN 30' OF THE PROPOSED BUILDING - SEE NOTE 4 IN OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.1)

X OCCUPANT LOADS FOR EACH AREA

☑ EXIT ACCESS TRAVEL DISTANCES (1016)

X COMMON PATH OF TRAVEL DISTANCES (1014.3 & 1028.8)

🔀 DEAD END LENGTHS (1018.4) – SEE NOTE 5

CLEAR EXIT WIDTHS FOR EACH EXIT DOOR X MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.1)

X ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR X A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED

FOR PURPOSES OF OCCUPANCY SEPARATION. SEE NOTE 6

☑ LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) - SEE NOTE 7 X LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1008.1.9.7) - SEE NOTE 8

X LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) - SEE NOTE 8

X LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 8

☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) - SEE NOTE 8

🔀 THE SQUARE FOOTAGE OF EACH FIRE AREA (902) - SEE NOTE 9 X THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.4) - SEE NOTE 10

DINOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

LIFE SAFETY PLAN NOTES: 1. NO RATED WALLS.

- 2. ALL ASSUMED AND REAL PROPERTY LINES >30'.
- 3. NO REQUIREMENT, SEPARATION DISTANCES ARE GREATER THAN 30' FOR ALL WALLS CONTAINING OPENINGS.

4. NO STRUCTURES WITHIN 20', SEE SITE PLAN. 5. NO DEAD ENDS;

6. NO RATING REQUIRED THIS STRUCTURE. 7. PANIC HARDWARE NOT REQUIRED.

8. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS. 9. FIRE AREA PER FLOOR DOES NOT EXCEED ALLOWED MAXIMUM. 10. SMOKE COMPARTMENTS NOT REQUIRED.

 \bigcirc -----68'-5" TOTAL LENGTH If bolts are used instead of panic $\bigcirc \bullet$ hardware, (i)doors must MAXIMUM COMMON PATH OF TRAVEL =18'-7" have signs posted per NCBC 1008.1.9.3 _____ \bigcirc ······ REF.

MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WDTH (1005.1)

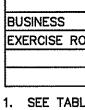
1 41" CLEAR WIDTH DIVIDED BY .2" = 205 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 36 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

2 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 36 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.



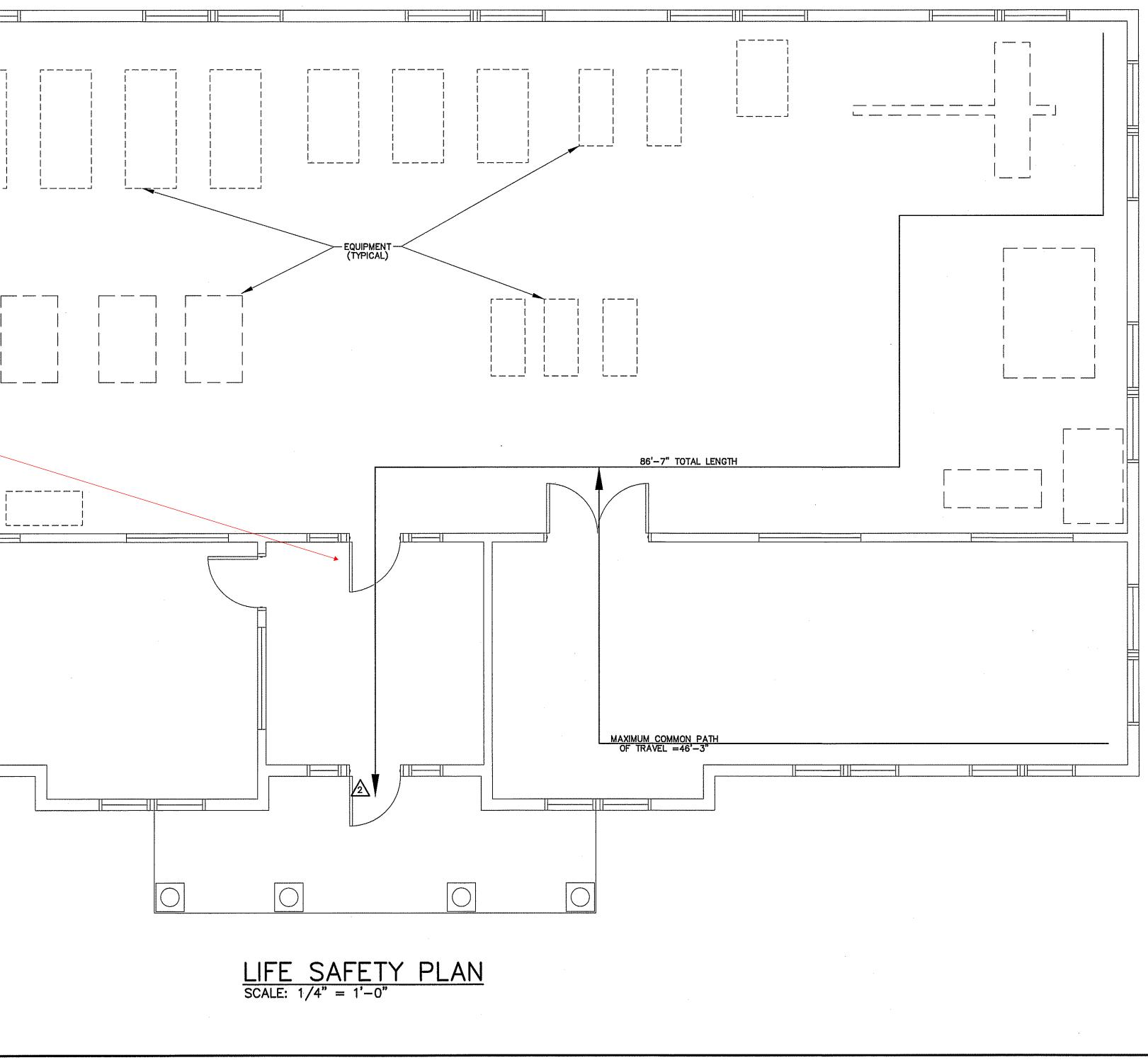
FLOOR, ROOM OR SPACE DESIGNATION	MINI NO. OF	MUM ² EXITS	TRAVEL DIS	TANCE	ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1015.2.1)				
	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS			
ASSEMBLY	2	2	200'	86'-7"	50'-4"	56'-5"			

1. CORRIDOR DEAD ENDS (SECTION 1017.3) 2. BUILDINGS WITH SINGLE EXITS (TABLE 1021.2), SPACES WITH ONE MEANS OF EGRESS (TABLE 1015.1) 3. COMMON PATH OF TRAVEL (SECTION 1014.3)



(SECTION 1008.1)

4. SEE SECTION 1004.5 FOR CONVERGING EXITS. 5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)



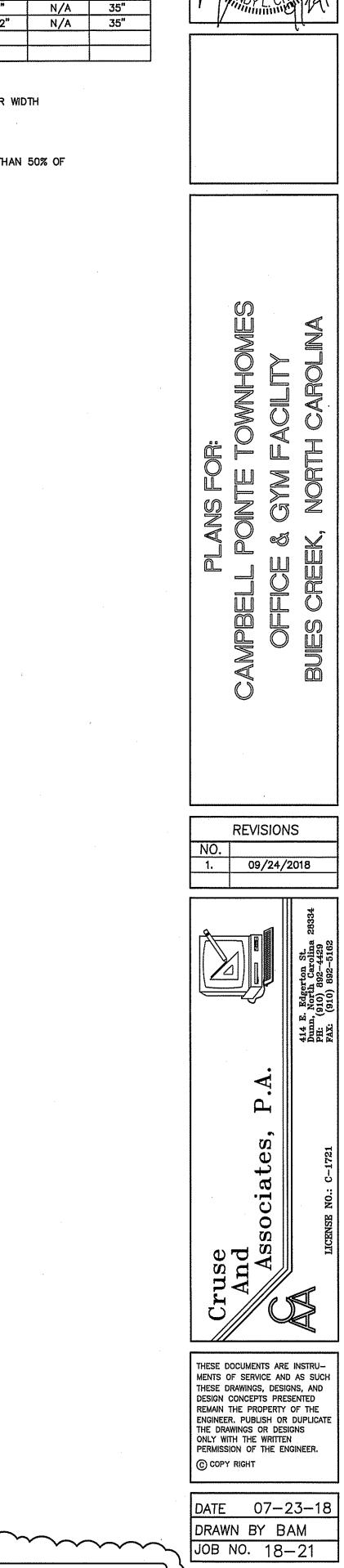
			EXIT	WIDTH					
USE GROUP OR SPACE DESCRIPTION	(a)	(b)		(c))		EXIT WE	DTH (In)	
	AREA ¹ SQ. FT.		CALCULATED OCCUPANT LOAD	EGRESS PER OC (TABLE	CUPANT	REQUIRE (SECTION (a/t	D WIDTH 1005.1)) x c	ACTUAL SHOW PLA	N ON
		1004.1.1)	(a/b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
BUSINESS	1089	100 GROSS	11	N/A	.2	N/A	2.2"	N/A	35"
EXERCISE ROOM	3016	50 GROSS	61	N/A	.2	N/A	12.2"	N/A	35"

1. SEE TABLE 1004.1.1 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002)

2. MINIMUM STAIRWAY WDTH (SECTION 1009.1); MIN. CORRIDOR WIDTH (SECTION 1018.2); MIN. DOOR WIDTH

3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1023.2)

6. ASSEMBLY OCCUPANCIES (SECTION 1028)



SHEET NO.

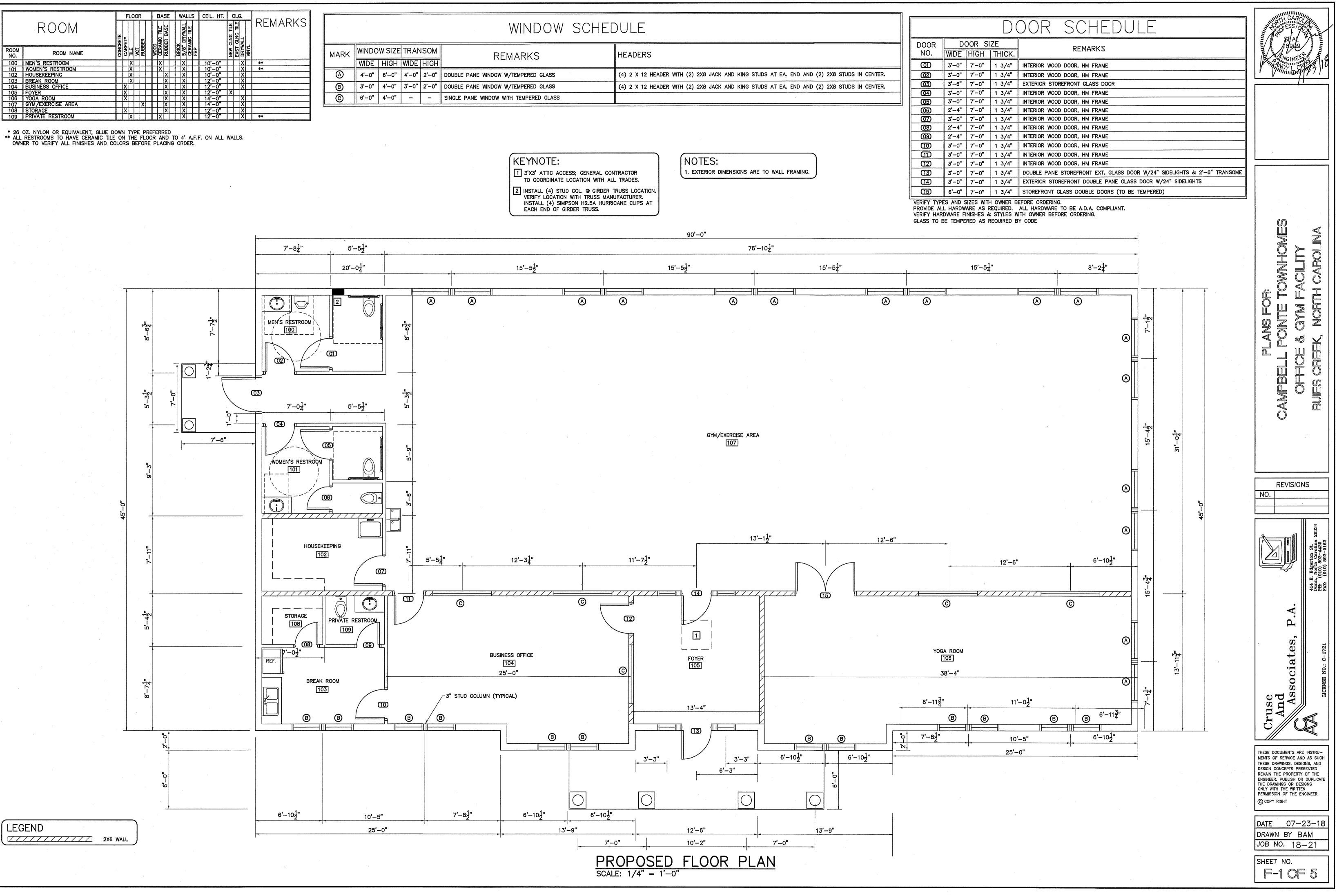
LS-1 OF

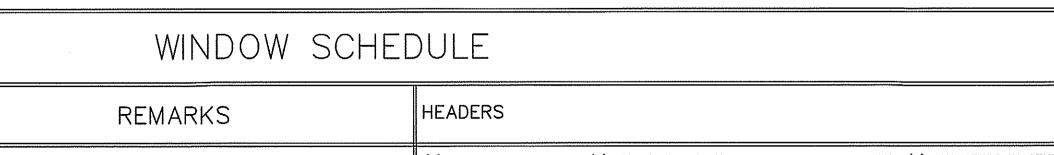
REVISION 1: WE CHANGED THE BUILDING OCCUPANCY FROM BUSINESS TO ASSEMBLY & BUSINESS.

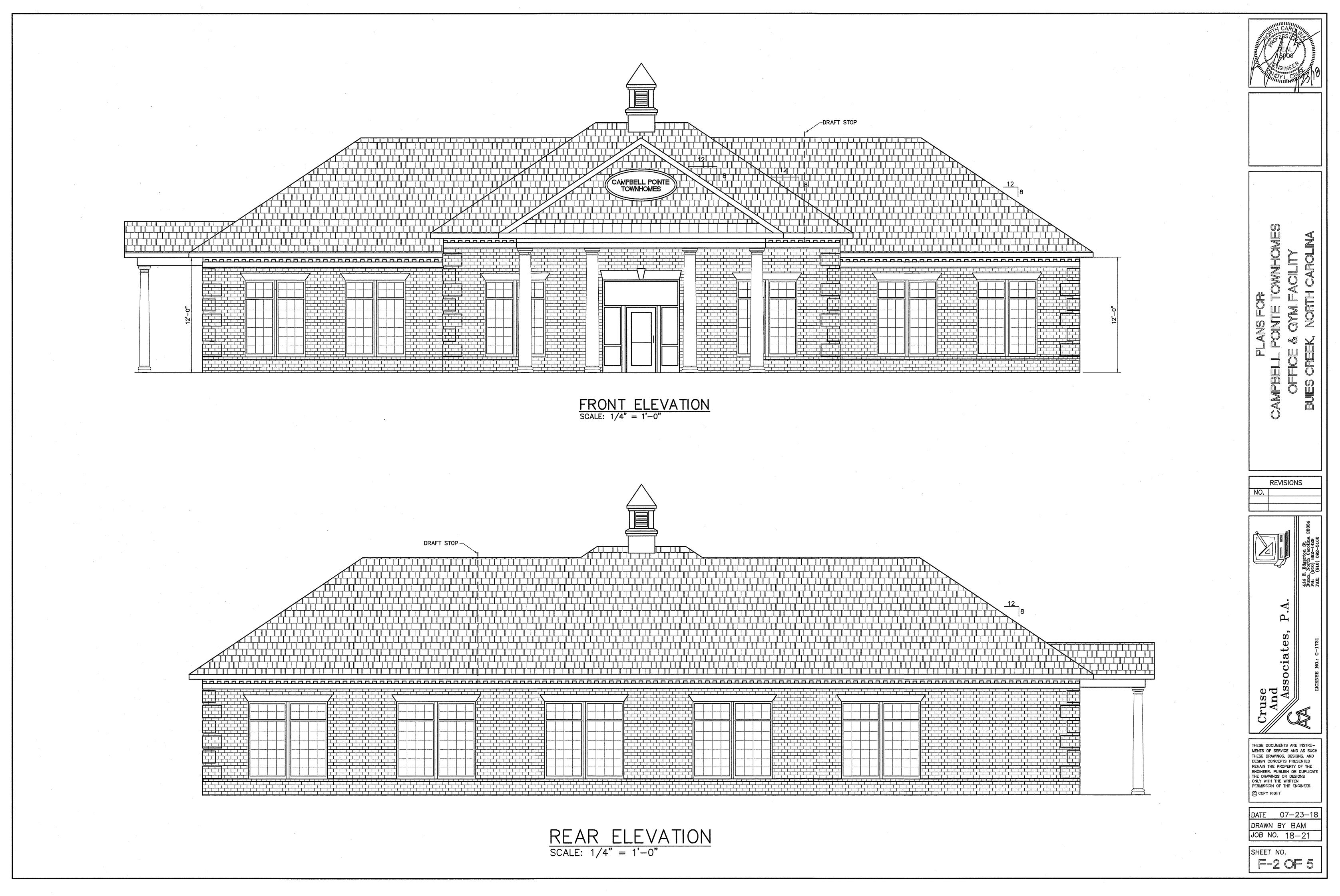
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|             |                   |       | FLO       | OR            |   | BA              | SE   |      | WAL     | LS.            | CE | IL. HT.       | (         | CLG            | 3.   |     |         |
|-------------|-------------------|-------|-----------|---------------|---|-----------------|------|------|---------|----------------|----|---------------|-----------|----------------|------|-----|---------|
|             | ROOM              | RETE  | 1         | 3ER           |   | D<br>AMIC TILE  | BASE | ×    | DRYWALL | MIC TLE        |    |               | CLNG TILE | EXST CLNG TILE | VALL |     | REMARKS |
| ROOM<br>NO. | ROOM NAME         | CONCI | <b>TE</b> | VCT<br>RUBBER |   | WOOD<br>CERAMIC | RUBE | RRIC | 5/8     | CERAMIC<br>FRP |    |               | NEW       | EXST           | DRYV | ИNИ |         |
| 100         | MEN'S RESTROOM    |       | X         |               |   | X               |      |      | X       |                | 10 | )'-0"         |           |                | X    |     | **      |
| 101         | WOMEN'S RESTROOM  |       | X         |               |   | X               |      |      | X       |                | 10 | )'-0"         |           |                | X    |     | **      |
| 102         | HOUSEKEEPING      |       | X         |               |   |                 | X    |      | X       |                | 10 | )'-0"         |           |                | X    |     |         |
| 103         | BREAK ROOM        |       | X         | , i           |   |                 | X    |      | X       |                |    | 2'-0"         |           |                | Х    |     |         |
| 104         | BUSINESS OFFICE   |       |           |               |   |                 | X    |      | X       |                |    | 2'-0"         |           |                | Х    |     |         |
| 105         | FOYER             | X     |           |               |   |                 | X    |      | X       |                |    | 2'-0"         | X         |                |      |     |         |
| 106         | YOGA ROOM         | X     |           |               |   |                 | X    |      | X       |                |    | +'-0"         |           |                | X    |     |         |
| 107         | GYM/EXERCISE AREA |       |           | X             |   |                 | X    |      | X       |                | 14 | <b>₽'</b> —0" |           |                | Х    |     |         |
| 108         | STORAGE           | X     |           |               |   |                 | X    | 1    | X       |                |    | 2'-0"         |           |                | X    |     |         |
| 109         | PRIVATE RESTROOM  |       | X         |               | Π | X               |      |      | X       |                | 12 | ?'0"          |           |                | Х    |     | **      |

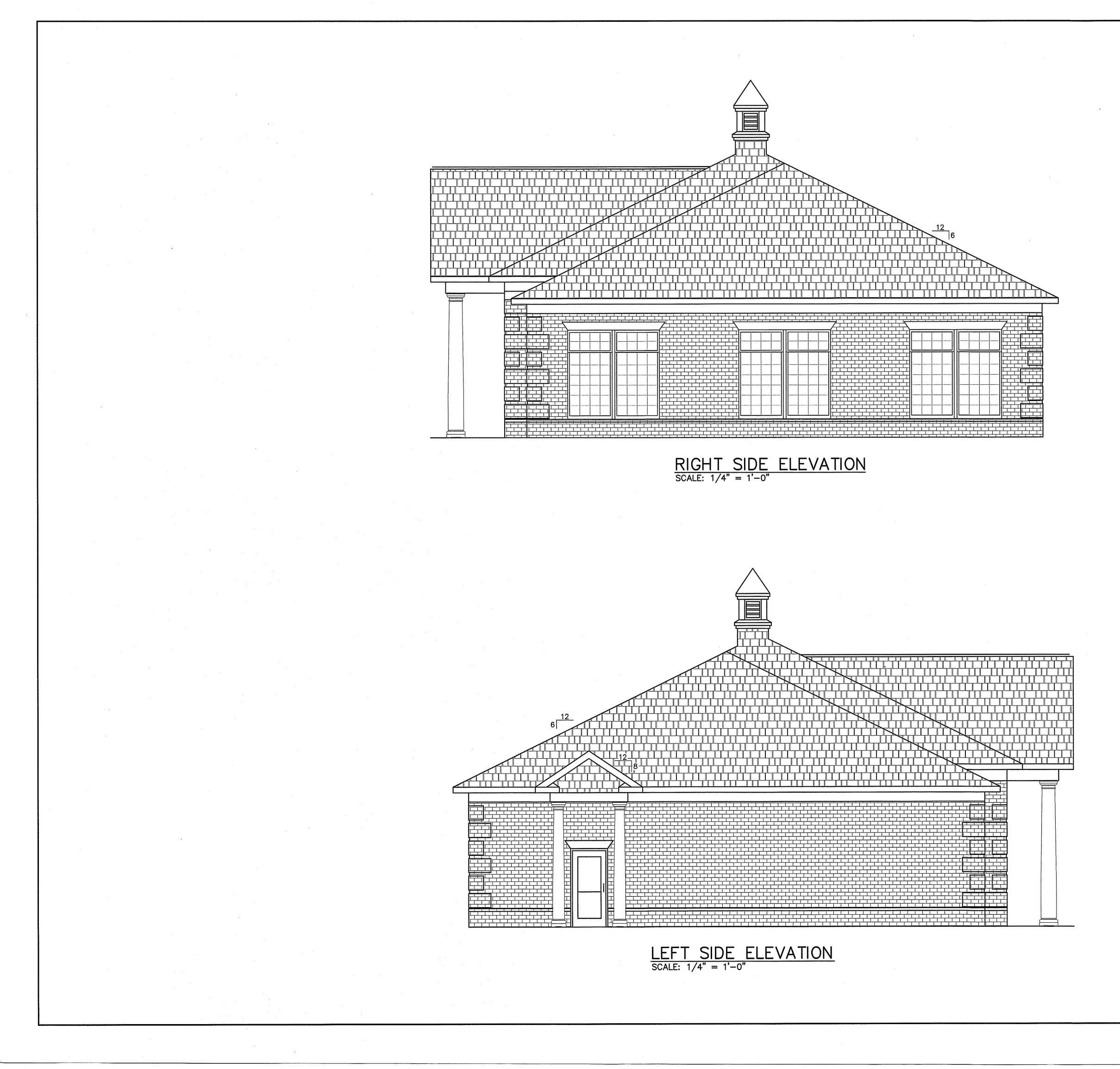
| MARK | WINDO | W SIZE | TRAN  | ISOM  |     |
|------|-------|--------|-------|-------|-----|
|      | WIDE  | HIGH   | WIDE  | HIGH  |     |
|      | 4'-0" | 6'-0"  | 4'-0" | 2'-0" | DOL |
| ₿    | 3'0"  | 4'-0"  | 3'-0" | 2'0"  | DOL |
| Ô    | 6'0"  | 4'-0"  | -     | -     | SIN |
|      |       |        |       |       |     |

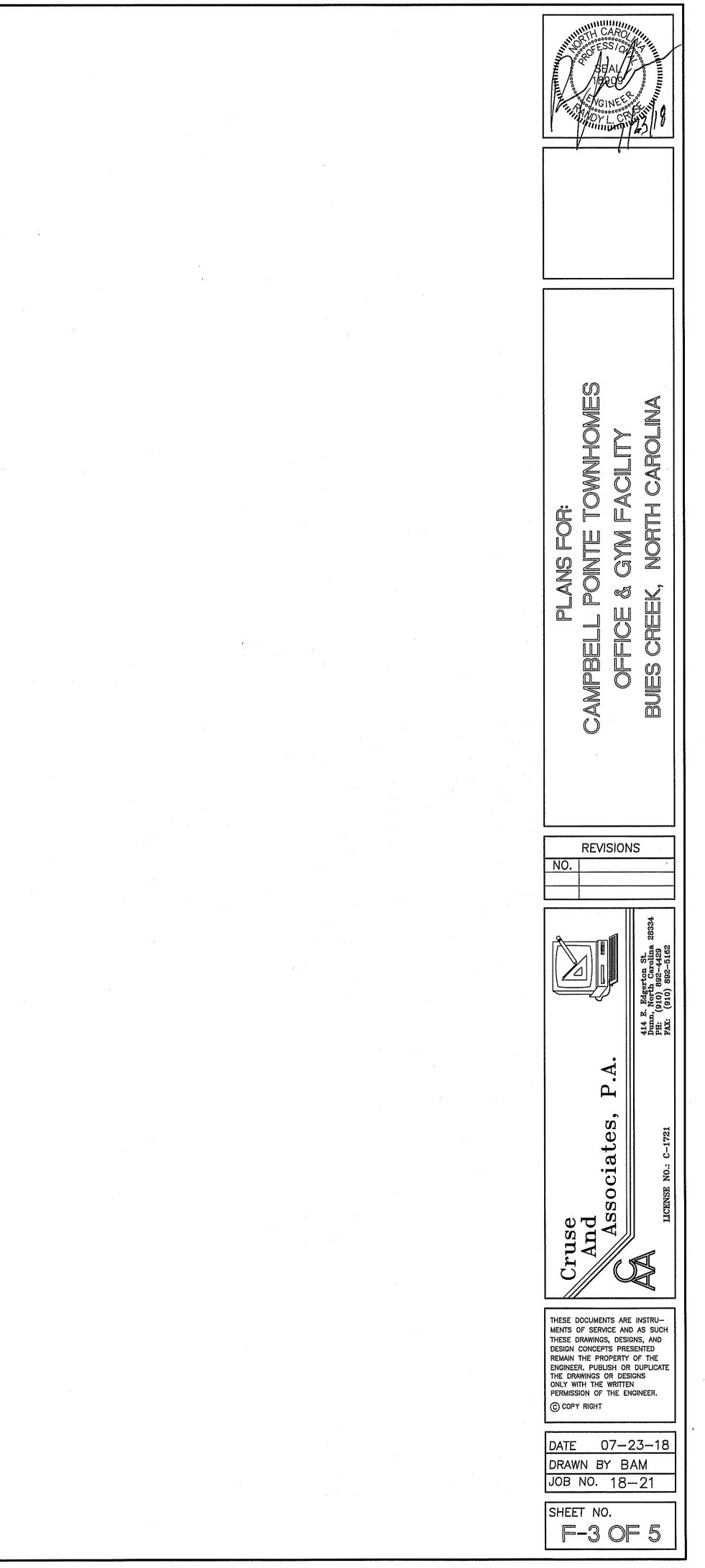


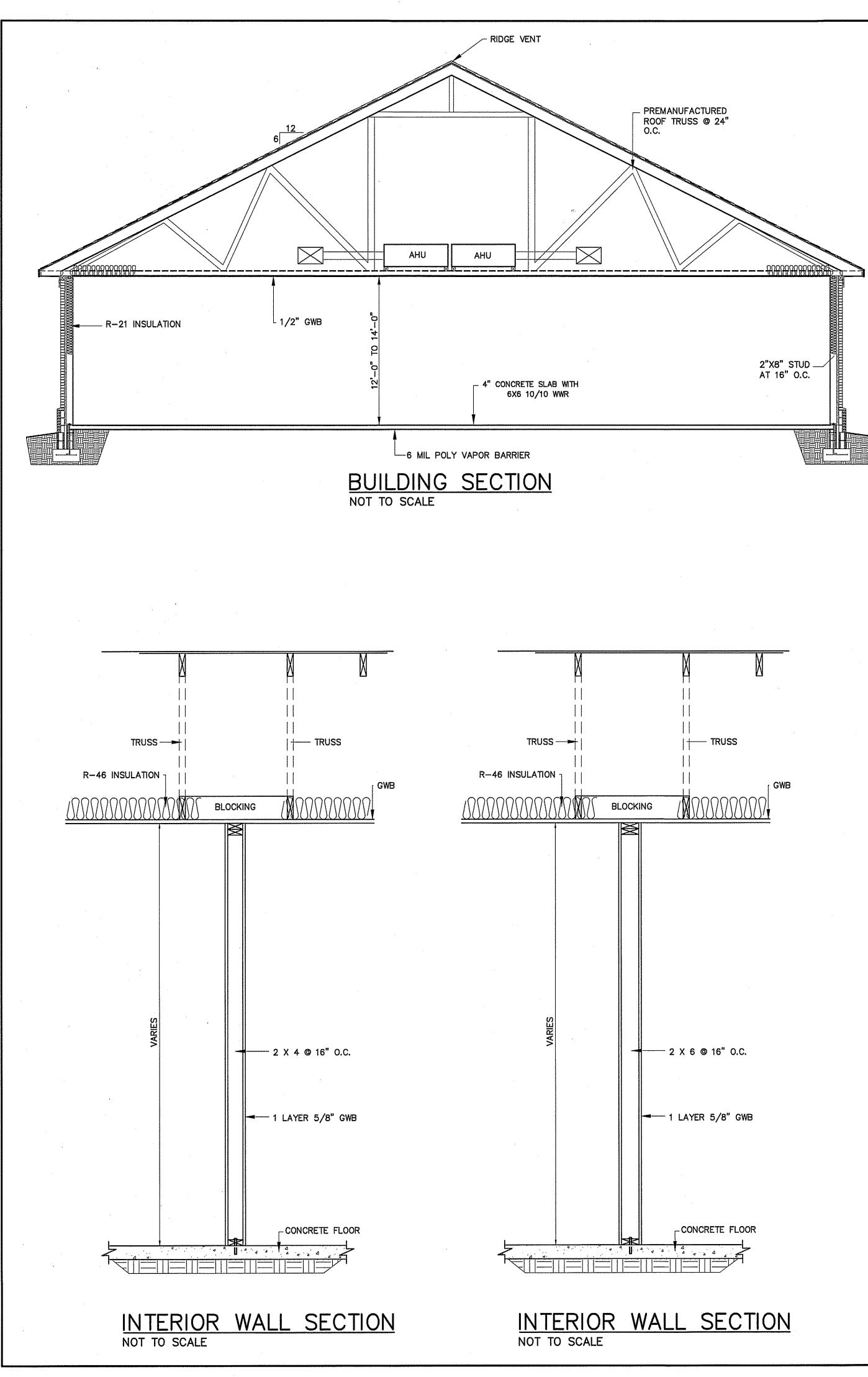


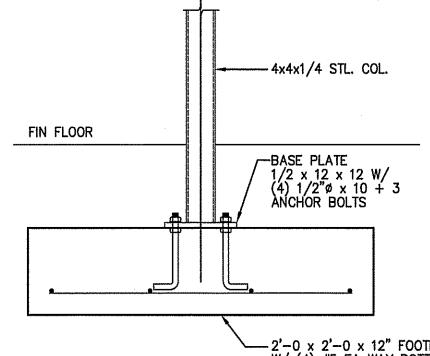




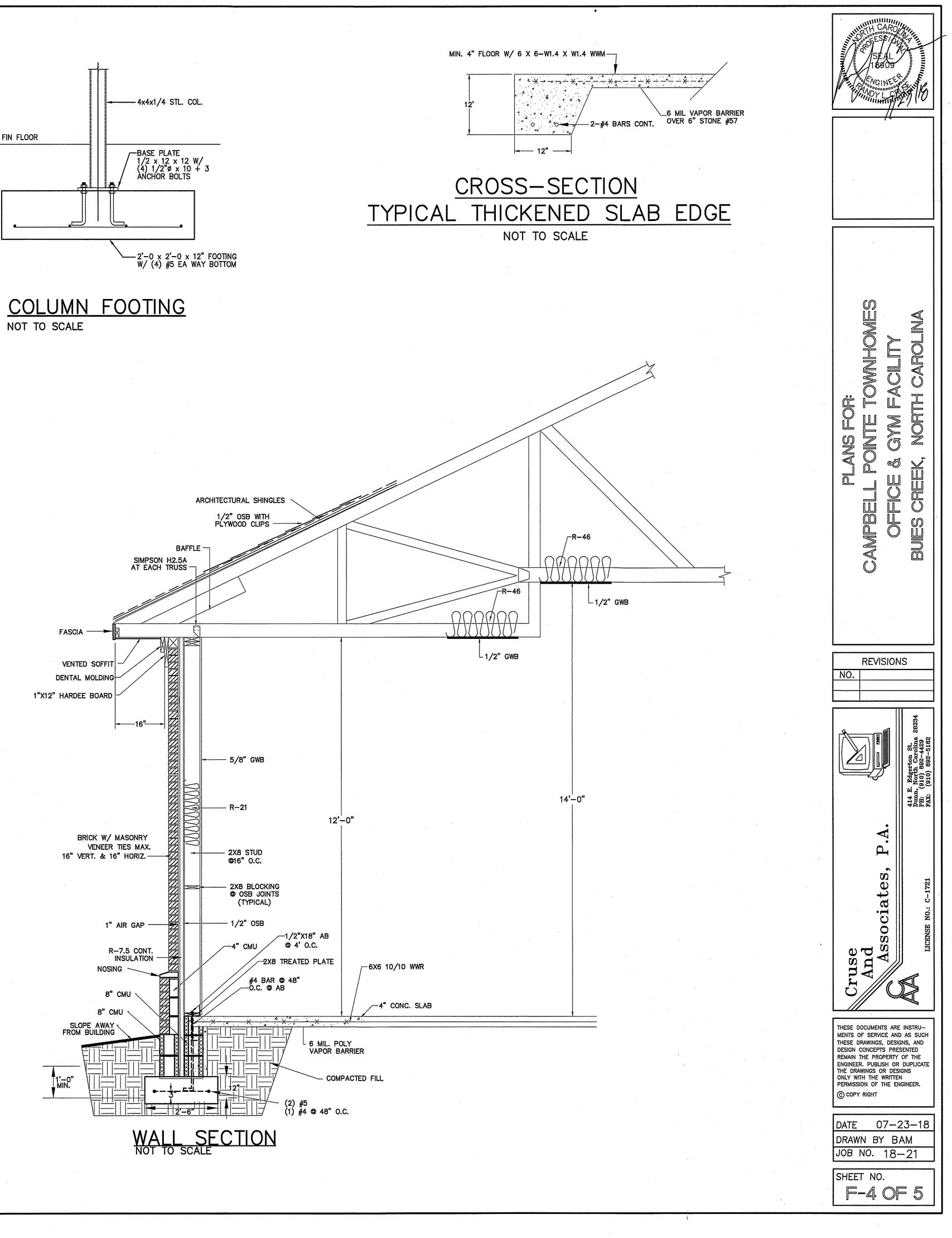


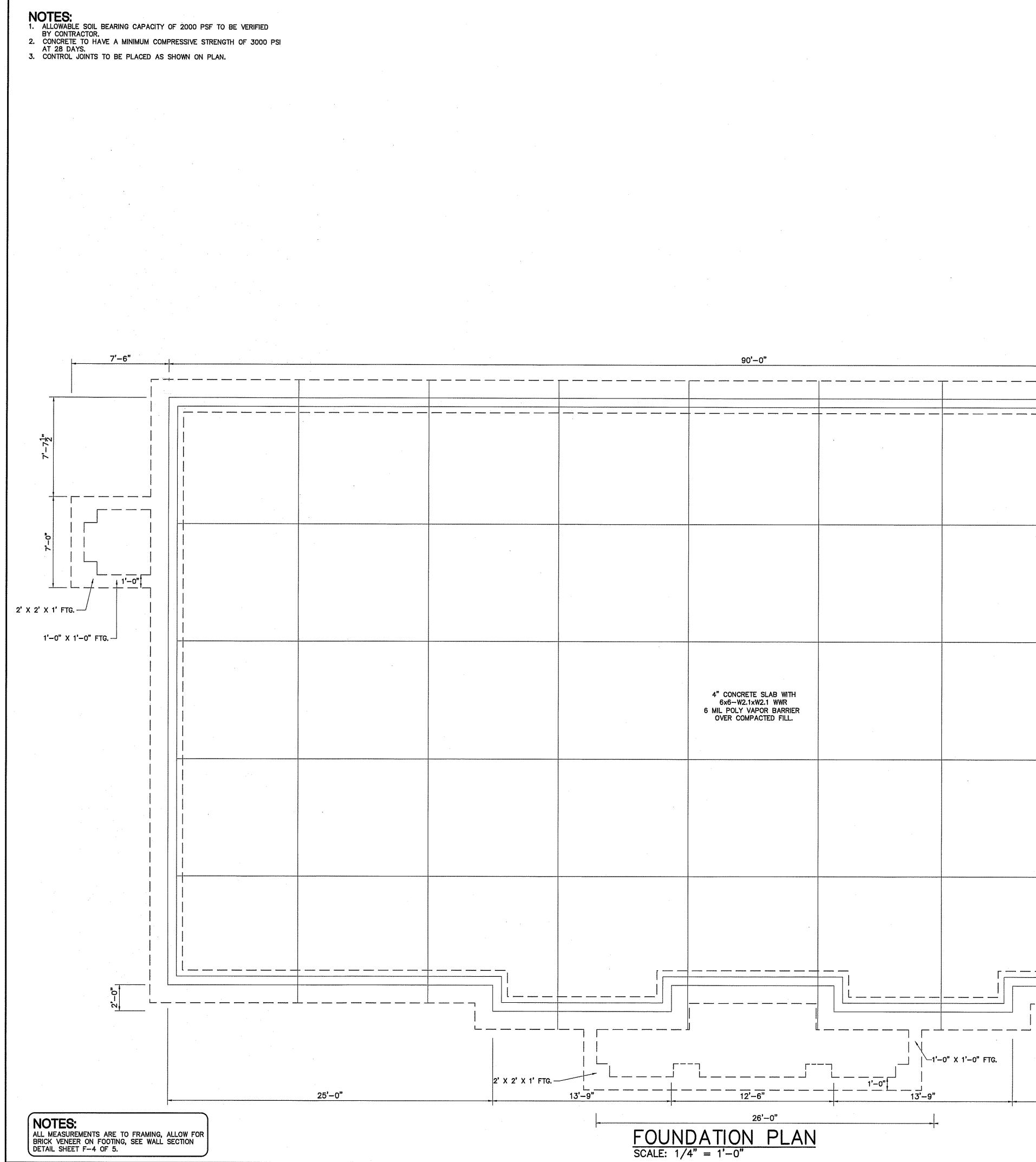




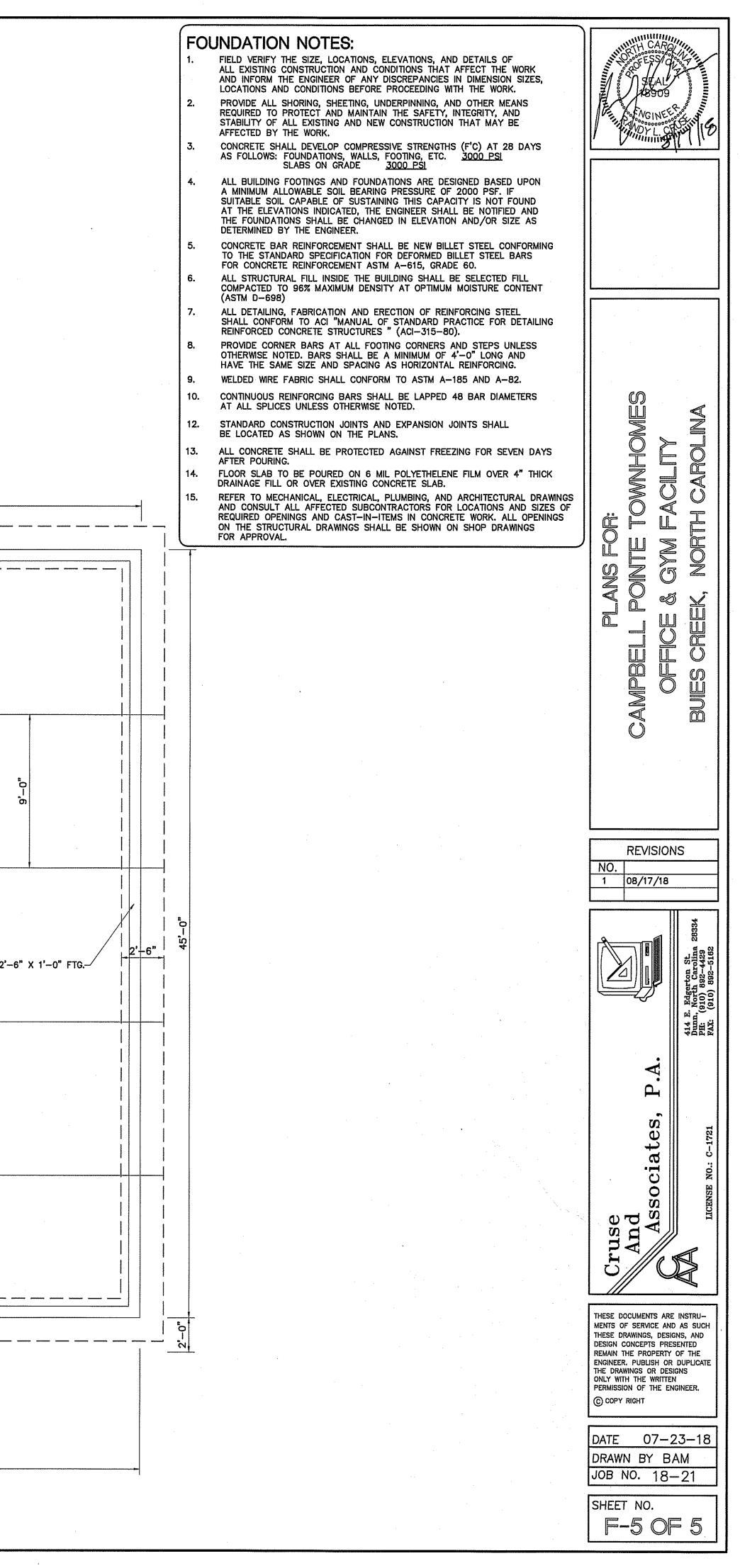








# 90'-0" 10'-0" CJ 4" CONCRETE SLAB WITH 6x6-W2.1xW2.1 WWR 6 MIL POLY VAPOR BARRIER OVER COMPACTED FILL. 2'-6" X 1'-0" FTG.-CJ \_\_\_\_\_\_ -----\_\_\_\_\_ -----└─1'─0" X 1'─0" FTG. - --- , 1'-0" 12'-6" \_\_\_\_\_ 25'-0" 13'-9" 26'-0" FOUNDATION PLAN SCALE: 1/4" = 1'-0"



|      | PLUMBING FIXTURE SCHEDULE |                                  |                                                                                      |                                                                                              |  |  |  |  |  |  |  |  |
|------|---------------------------|----------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| MARK | MAKE                      | MODEL                            | DESCRIPTION                                                                          | NOTES                                                                                        |  |  |  |  |  |  |  |  |
| P-1  | AMERICAN<br>STANDARD      | MADERA 2854.016                  | EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET<br>HC ACCESSIBLE, FLUSH VALVE FLOOR MOUNTED | WHITE 5901.100 SEAT, 6047.161 MANUAL VALVE                                                   |  |  |  |  |  |  |  |  |
| P-2  | AMERICAN<br>STANDARD      | MADERA 3451.660.020              | EL 1.6/PA 15.0" ELONGATED WATER CLOSET<br>HC ACCESSIBLE, FLUSH VALVE FLOOR MOUNTED   | WHITE 5901.100 SEAT, 6047.161 MANUAL VALVE                                                   |  |  |  |  |  |  |  |  |
| P-3  | AMERICAN<br>STANDARD      | AQUALYN 0476.028                 | SELF-RIMMING COUNTERTOP                                                              | AMERICAN STANDARD 1340M.105<br>SINGLE CONTROL METERING FAUCET W/POP-UP DRAIN                 |  |  |  |  |  |  |  |  |
| P-4  | OASIS                     | PGBACSL                          | SPLIT LEVEL ELECTRIC WATER COOLER                                                    | BARRIER - FREE                                                                               |  |  |  |  |  |  |  |  |
| P-5  | JÚST                      | DL-2133-A-GR                     | 2 COMPARTMENT SINK                                                                   | PROVIDE W/JPO-1000 PULLOUT ROSE SPRAY FAUCET;<br>JDP-DROP POST DRAIN; J-1500 SOAP DISPENSER. |  |  |  |  |  |  |  |  |
| P-6  | REFRIGERATO               | R SELECTED BY OWNER              |                                                                                      |                                                                                              |  |  |  |  |  |  |  |  |
| P-7  | STATESMAN                 | PCE 50 20LSA                     | LOWBOY 50 GAL 4.5 KW WATER HEATER                                                    | HEATER IS 32-1/4" TALL; ALLOW FOR MINIMUM CLEARANCES<br>DURING INSTALLATION                  |  |  |  |  |  |  |  |  |
| P-8  | MOP SINK B                | Y OWNER                          |                                                                                      |                                                                                              |  |  |  |  |  |  |  |  |
| P-9  | WOODFORD                  | MOD-65                           | HOSE BIB FREEZE PROOF                                                                | ANTI-SIPHONING WITH VACCUM BREAKER, SELF DRAINING.                                           |  |  |  |  |  |  |  |  |
| P-10 | AMERICAN<br>STANDARD      | WASHBROOK 1.0<br>URINAL 6501.010 | WALL HUNG URINAL<br>RIM 17" A.F.F., HC ACCESSIBLE                                    | SLOAN ROYAL 3/4" VALVE                                                                       |  |  |  |  |  |  |  |  |

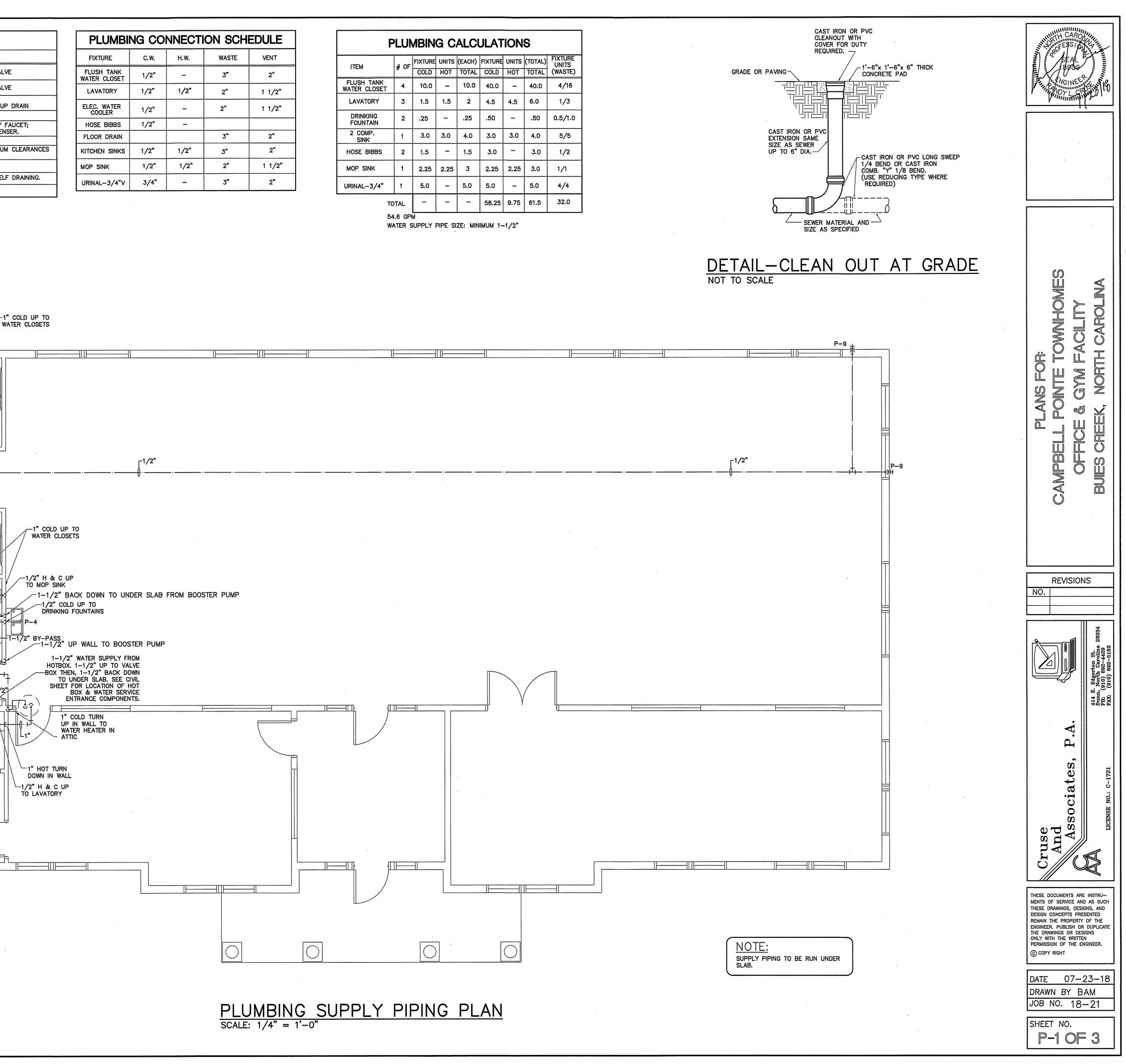
VERIFY ALL FIXTURES WITH OWNER BEFORE PURCHASE OR INSTALLATION SEE CIVIL PLANS FOR BACKFLOW PREVENTOR

# **KEY NOTE:**

1 LITTLE GIANT INLINE 400 MODEL PUMP SYSTEM INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

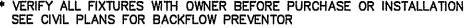
> -1" COLD UP TO WATER CLOSETS  $P-3\hat{T}\hat{T}$ P-1 `₫──3/4"  $\Delta$  $\cup$ 1/2"—  $\overline{ }$ -1" COLD UP TO WATER CLOSETS P-1 ¥1 -1/2" H & C UP TO MOP SINK P-2 -1/2" COLD UP TO DRINKING FOUNTAINS -1-1/2" 1 -1-1/2" 1/2" P-3 - ATTIC 1/2" COLD UP -TO REFRIGERATOR -1" HOT TURN DOWN IN WALL -1/2" H & C UP REE TO LAVATORY 1 ∕ 2" H & C UP ─ TO 2 COMP. SINK \ \_\_\_\_\_1/2 d→\_\_3/4" P-5 P-9

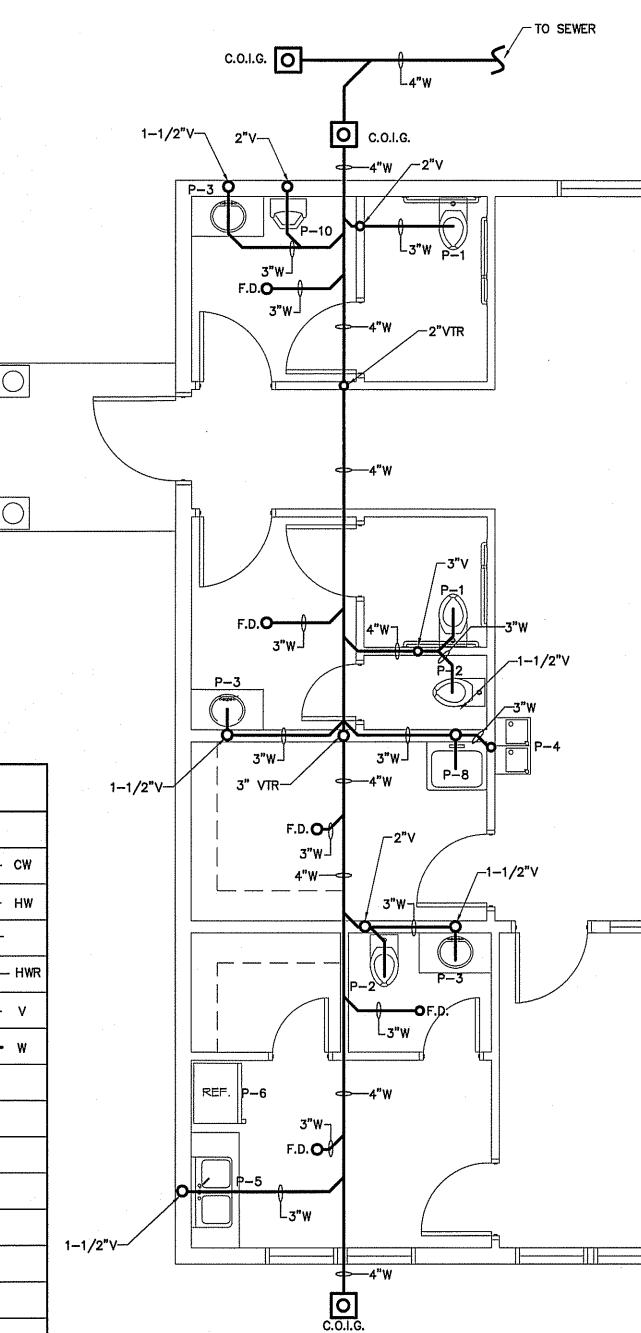
| PLUMB                                     | ING         | LEGEND                                 |               |
|-------------------------------------------|-------------|----------------------------------------|---------------|
| DESCRIPTION                               | Sì          | YMBOL                                  |               |
| COLD WATER                                |             |                                        | CW            |
| HOT WATER                                 |             | ······································ | —— НЖ         |
| COLD WATER (FILTERED)                     | ·           | i                                      |               |
|                                           |             |                                        | HWR           |
| VENT PIPING                               |             |                                        | — — V         |
| WASTE PIPING                              | NEW         | FXISTING                               | <u>3</u> —- W |
| CLEAN OUT IN GRADE                        | 0           | C.O.I.G.                               |               |
| FLOOR CLEAN OUT                           | 0           | F.C.O.                                 |               |
| NON FREEZE HOSE BIBB                      | <del></del> | NFHB                                   |               |
| FLOOR DRAIN                               | 0           | F.D.                                   |               |
| CHECK VALVE                               | -7-7-       | •                                      |               |
| BALL VALVE                                | ₩.          |                                        |               |
| GATE VALVE                                | X           |                                        |               |
| SHUT-OFF VALVE                            | M           |                                        |               |
| BACKFLOW PREVENTER                        | -77-        | -                                      |               |
| FIXTURE DESIGNATION                       | P           |                                        |               |
| MOUNTING HEIGHT                           | мн          |                                        |               |
| POINT OF CONNECTION<br>NEW TO EXISTING    | Θ           |                                        |               |
| FLOOR SINK                                | d           |                                        |               |
| SHOCK ABSORBER<br>W/BALL VALVE SHUT-OFF 5 | \$A<br>₿    | SIZE PER MANUF.<br>RECOMMENDATIONS     |               |
| CHANGE IN PIPE SIZE                       |             |                                        |               |



# FLUSH TANK WATER CLOSET ELEC. WATER COOLER FLOOR DRAIN KITCHEN SINKS MOP SINK URINAL-3/4"V

|      |                      |                                  | PLUMBING FIXTURE SC                                                                  | CHEDULE                                                                                      |
|------|----------------------|----------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| MARK | MAKE                 | MODEL                            | DESCRIPTION                                                                          | NOTES                                                                                        |
| P-1  | AMERICAN<br>STANDARD | MADERA 2854.016                  | EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET<br>HC ACCESSIBLE, FLUSH VALVE FLOOR MOUNTED | WHITE 5901.100 SEAT, 6047.161 MANUAL VALVE                                                   |
| P-2  | AMERICAN<br>STANDARD | MADERA 3451.660.020              | EL 1.6/PA 15.0" ELONGATED WATER CLOSET<br>HC ACCESSIBLE, FLUSH VALVE FLOOR MOUNTED   | WHITE 5901.100 SEAT, 6047.161 MANUAL VALVE                                                   |
| P-3  | AMERICAN<br>STANDARD | AQUALYN 0476.028                 | SELF-RIMMING COUNTERTOP                                                              | AMERICAN STANDARD 1340M.105<br>SINGLE CONTROL METERING FAUCET W/POP-UP DRAIN                 |
| P-4  | OASIS                | PG8ACSL                          | SPLIT LEVEL ELECTRIC WATER COOLER                                                    | BARRIER – FREE                                                                               |
| P-5  | JUST                 | DL-2133-A-GR                     | 2 COMPARTMENT SINK                                                                   | PROVIDE W/JPO-1000 PULLOUT ROSE SPRAY FAUCET;<br>JDP-DROP POST DRAIN; J-1500 SOAP DISPENSER. |
| P-6  | REFRIGERATO          | R SELECTED BY OWNER              |                                                                                      |                                                                                              |
| P-7  | STATESMAN            | PCE 50 20LSA                     | LOWBOY 50 GAL 4.5 KW WATER HEATER                                                    | HEATER IS 32-1/4" TALL; ALLOW FOR MINIMUM CLEARANCES<br>DURING INSTALLATION                  |
| P-8  | MOP SINK B           | YOWNER                           |                                                                                      |                                                                                              |
| P-9  | WOODFORD             | MOD-65                           | HOSE BIB FREEZE PROOF                                                                | ANTI-SIPHONING WITH VACCUM BREAKER, SELF DRAINING.                                           |
| P-10 | AMERICAN<br>STANDARD | WASHBROOK 1.0<br>URINAL 6501.010 | WALL HUNG URINAL<br>RIM 17" A.F.F., HC ACCESSIBLE                                    | SLOAN ROYAL 3/4" VALVE                                                                       |

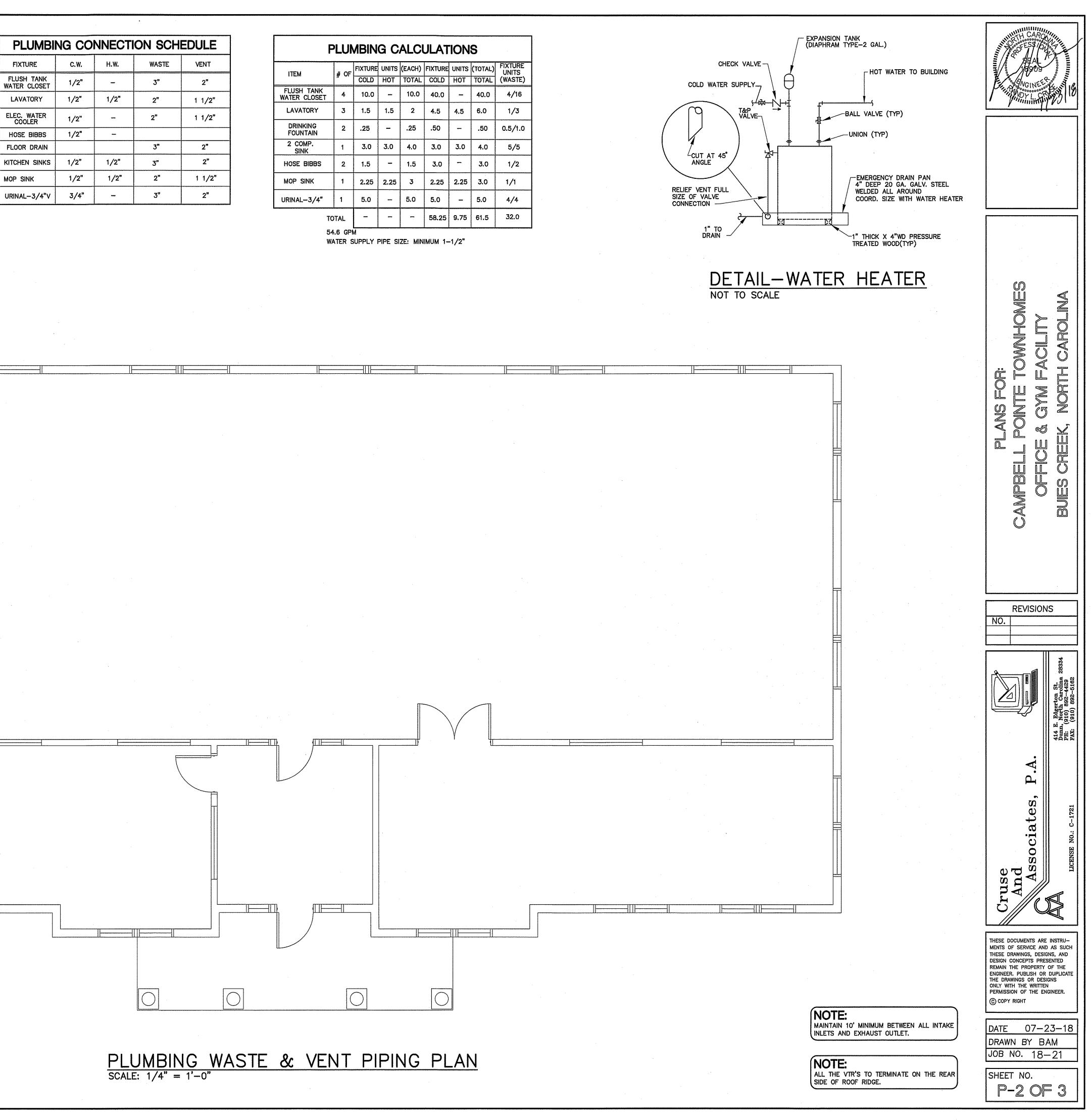




| PLUMB                                      | ING         | LEGEN                                 | ND                                     |         |
|--------------------------------------------|-------------|---------------------------------------|----------------------------------------|---------|
| DESCRIPTION                                | Sì          | MBOL                                  |                                        | · · · · |
| COLD WATER                                 |             |                                       | ······································ | — cw    |
| HOT WATER                                  | ,           | · · · · · · · · · · · · · · · · · · · |                                        | — нw    |
| COLD WATER (FILTERED)                      |             |                                       | لد ·                                   |         |
|                                            |             | ·····                                 |                                        | HWR     |
| VENT PIPING                                |             | <u> </u>                              | <u></u>                                | — v     |
| WASTE PIPING                               | NEW         |                                       | EXISTING                               | w       |
| CLEAN OUT IN GRADE                         | 0           | C.O.I.G.                              |                                        |         |
| FLOOR CLEAN OUT                            | 0           | F.C.O.                                |                                        |         |
| NON FREEZE HOSE BIBB                       | <del></del> | NFHB                                  |                                        |         |
| FLOOR DRAIN                                | 0           | F.D.                                  |                                        |         |
| CHECK VALVE                                |             |                                       |                                        |         |
| BALL VALVE                                 | ×           |                                       |                                        |         |
| GATE VALVE                                 | X           |                                       |                                        |         |
| SHUT-OFF VALVE                             | M           |                                       |                                        |         |
| BACKFLOW PREVENTER                         | -777-       | -                                     |                                        |         |
| FIXTURE DESIGNATION                        | P           |                                       |                                        |         |
| MOUNTING HEIGHT                            | MH          |                                       |                                        |         |
| POINT OF CONNECTION<br>NEW TO EXISTING     | θ           |                                       |                                        |         |
| FLOOR SINK                                 | 4           |                                       |                                        |         |
| SHOCK ABSORBER<br>W/BALL VALVE SHUT-OFF 5- | _ф-с        | SIZE PER MA                           | NUF.<br>ATIONS                         |         |
| CHANGE IN PIPE SIZE                        |             | · · · · · · · · · · · · · · · · · · · |                                        |         |

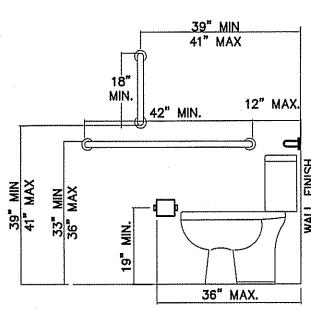
| PLUMBING CONNECTION SCHEDULE |      |       |       |        |  |  |  |  |
|------------------------------|------|-------|-------|--------|--|--|--|--|
| FIXTURE                      | C.W. | н.w.  | WASTE | VENT   |  |  |  |  |
| FLUSH TANK<br>WATER CLOSET   | 1/2" |       | 3"    | 2"     |  |  |  |  |
| LAVATORY                     | 1/2" | 1/2"  | 2"    | 1 1/2" |  |  |  |  |
| ELEC. WATER<br>COOLER        | 1/2" |       | 2"    | 1 1/2" |  |  |  |  |
| Hose Bibbs                   | 1/2" | -     |       |        |  |  |  |  |
| FLOOR DRAIN                  |      |       | 3"    | 2"     |  |  |  |  |
| KITCHEN SINKS                | 1/2" | 1/2"  | 3"    | 2"     |  |  |  |  |
| MOP SINK                     | 1/2" | 1/2"  | 2"    | 1 1/2" |  |  |  |  |
| URINAL-3/4"V                 | 3/4" | ***** | 3"    | 2"     |  |  |  |  |

| PLUMBING CALCULATIONS      |      |         |              |                 |         |              |                  |                             |
|----------------------------|------|---------|--------------|-----------------|---------|--------------|------------------|-----------------------------|
| ITEM                       | # OF | FIXTURE | UNITS<br>HOT | (EACH)<br>TOTAL | FIXTURE | UNITS<br>HOT | (TOTAL)<br>TOTAL | FIXTURE<br>UNITS<br>(WASTE) |
| FLUSH TANK<br>WATER CLOSET | 4    | 10.0    | -            | 10.0            | 40.0    |              | 40.0             | 4/16                        |
| LAVATORY                   | 3    | 1.5     | 1.5          | 2               | 4.5     | 4.5          | 6.0              | 1/3                         |
| DRINKING<br>FOUNTAIN       | 2    | .25     |              | .25             | .50     | -            | .50              | 0.5/1.0                     |
| 2 COMP.<br>SINK            | 1    | 3.0     | 3.0          | 4.0             | 3.0     | 3.0          | 4.0              | 5/5                         |
| Hose Bibbs                 | 2    | 1.5     |              | 1.5             | 3.0     | -            | 3.0              | 1/2                         |
| MOP SINK                   | 1    | 2.25    | 2.25         | 3               | 2.25    | 2.25         | 3.0              | 1/1                         |
| URINAL-3/4"                | 1    | 5.0     | -            | 5.0             | 5.0     |              | 5.0              | 4/4                         |
| тс                         | DTAL | -       | -            | -               | 58.25   | 9.75         | 61.5             | 32.0                        |

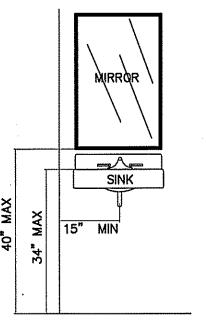


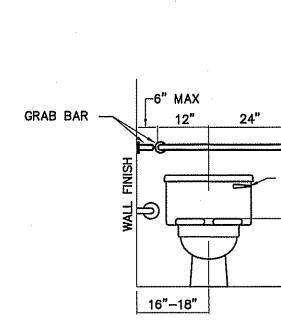
| -    |                      |                                  | PLUMBING FIXTURE                                                                     | SCHEDULE                                                                                     |
|------|----------------------|----------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| MARK | MAKE                 | MODEL                            | DESCRIPTION                                                                          | NOTES                                                                                        |
| P1   | AMERICAN<br>STANDARD | MADERA 2854.016                  | EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET<br>HC ACCESSIBLE, FLUSH VALVE FLOOR MOUNTED | WHITE 5901.100 SEAT, 6047.161 MANUAL VALVE                                                   |
| P-2  | AMERICAN<br>STANDARD | MADERA 3451.660.020              | EL 1.6/PA 15.0" ELONGATED WATER CLOSET<br>HC ACCESSIBLE, FLUSH VALVE FLOOR MOUNTED   | WHITE 5901.100 SEAT, 6047.161 MANUAL VALVE                                                   |
| P-3  | AMERICAN<br>STANDARD | AQUALYN 0476.028                 | SELF-RIMMING COUNTERTOP                                                              | AMERICAN STANDARD 1340M.105<br>SINGLE CONTROL METERING FAUCET W/POP-UP DRAIN                 |
| P-4  | OASIS                | PG8ACSL                          | SPLIT LEVEL ELECTRIC WATER COOLER                                                    | BARRIER – FREE                                                                               |
| P-5  | JUST                 | DL-2133-A-GR                     | 2 COMPARTMENT SINK                                                                   | PROVIDE W/JPO-1000 PULLOUT ROSE SPRAY FAUCET;<br>JDP-DROP POST DRAIN; J-1500 SOAP DISPENSER. |
| P-6  | REFRIGERATO          | OR SELECTED BY OWNER             |                                                                                      |                                                                                              |
| P-7  | STATESMAN            | PCE 50 20LSA                     | LOWBOY 50 GAL 4.5 KW WATER HEATER                                                    | HEATER IS 32-1/4" TALL; ALLOW FOR MINIMUM CLEARANCES<br>DURING INSTALLATION                  |
| P-8  | MOP SINK B           | YOWNER                           |                                                                                      |                                                                                              |
| P-9  | WOODFORD             | MOD-65                           | HOSE BIB FREEZE PROOF                                                                | ANTI-SIPHONING WITH VACCUM BREAKER, SELF DRAINING.                                           |
| P-10 | AMERICAN<br>STANDARD | WASHBROOK 1.0<br>URINAL 6501.010 | WALL HUNG URINAL<br>RIM 17" A.F.F., HC ACCESSIBLE                                    | SLOAN ROYAL 3/4" VALVE                                                                       |

\* VERIFY ALL FIXTURES WITH OWNER BEFORE PURCHASE OR INSTALLATION SEE CIVIL PLANS FOR BACKFLOW PREVENTOR









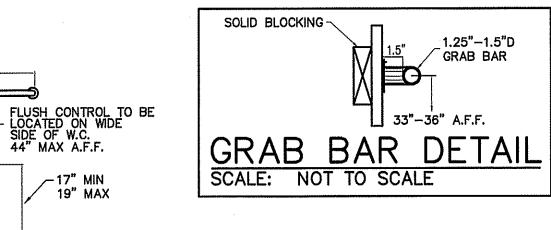
ALL FAUCETS/FIXTURES TO BE ADA COMPLIANT AS REQUIRED.

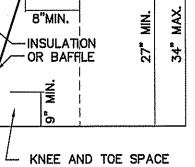
RESTROOM ACCESSIBILITY DETAILS

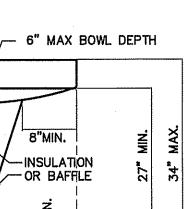
| PLUME                                     | BING        | LEGEND                             |     |
|-------------------------------------------|-------------|------------------------------------|-----|
| DESCRIPTION                               | S١          | MBOL                               |     |
| COLD WATER                                |             | - •• ••                            | CW  |
| HOT WATER                                 | • •         |                                    | нw  |
| COLD WATER (FILTERED)                     |             |                                    |     |
| RECIRCULATED WATER                        | <b>-</b>    | · · · ·                            | HWR |
| VENT PIPING                               |             | ······                             | v   |
| WASTE PIPING                              | NEW         | EXISTING                           | w   |
| CLEAN OUT IN GRADE                        | 0           | C.O.I.G.                           |     |
| FLOOR CLEAN OUT                           | 0           | F.C.O.                             |     |
| NON FREEZE HOSE BIBB                      | <del></del> | NFHB                               |     |
| FLOOR DRAIN                               | 0           | F.D.                               |     |
| CHECK VALVE                               |             |                                    |     |
| BALL VALVE                                | M           |                                    |     |
| GATE VALVE                                | X           |                                    |     |
| SHUT-OFF VALVE                            | M           |                                    |     |
| BACKFLOW PREVENTER                        | -777-       | -                                  |     |
| FIXTURE DESIGNATION                       | P           |                                    |     |
| MOUNTING HEIGHT                           | мн          |                                    |     |
| POINT OF CONNECTION<br>NEW TO EXISTING    | •           |                                    |     |
| FLOOR SINK                                | ٩           |                                    |     |
| SHOCK ABSORBER<br>W/BALL VALVE SHUT-OFF > |             | SIZE PER MANUF.<br>RECOMMENDATIONS |     |
| CHANGE IN PIPE SIZE                       | D           |                                    |     |

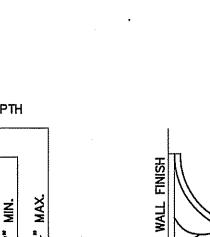
# WASTE & VENT RISER DIAGRAM

F.D.









17" MAX.

2"VTR-

<u>~2"</u>∨

TO SEWER,

.**3**″₩

v**⊣ U** L<sub>3"W</sub> F.D.

2"∨—╡

⊢4"W

C.O.I.G.

U<sub>P-3</sub>

P-10

\_3"₩\_

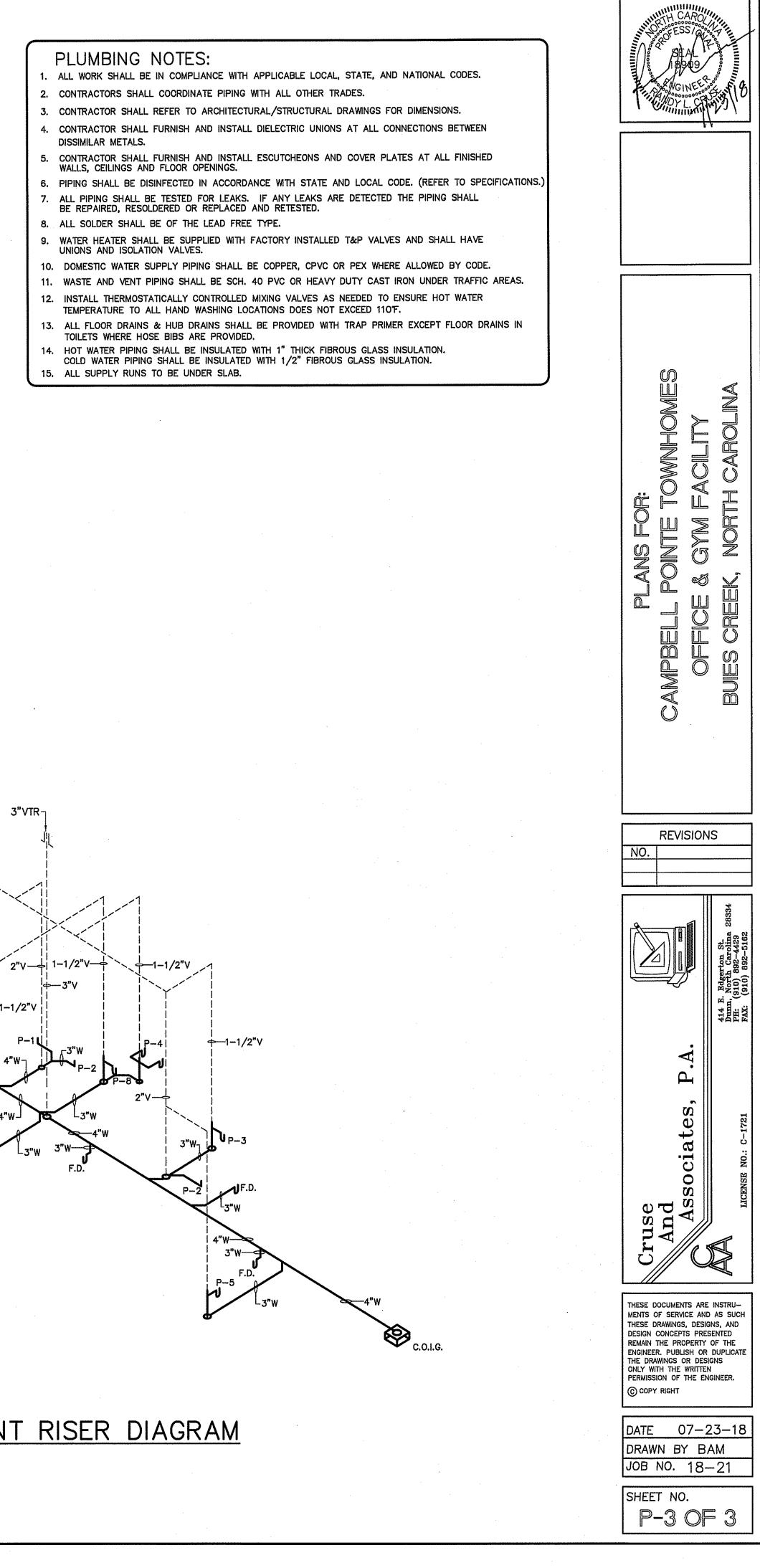
1-1/2"V-+

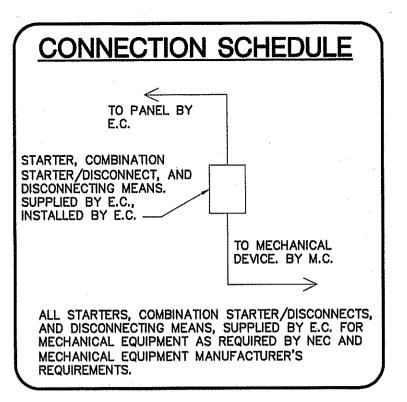
c.o.i.g.

3"VTR-

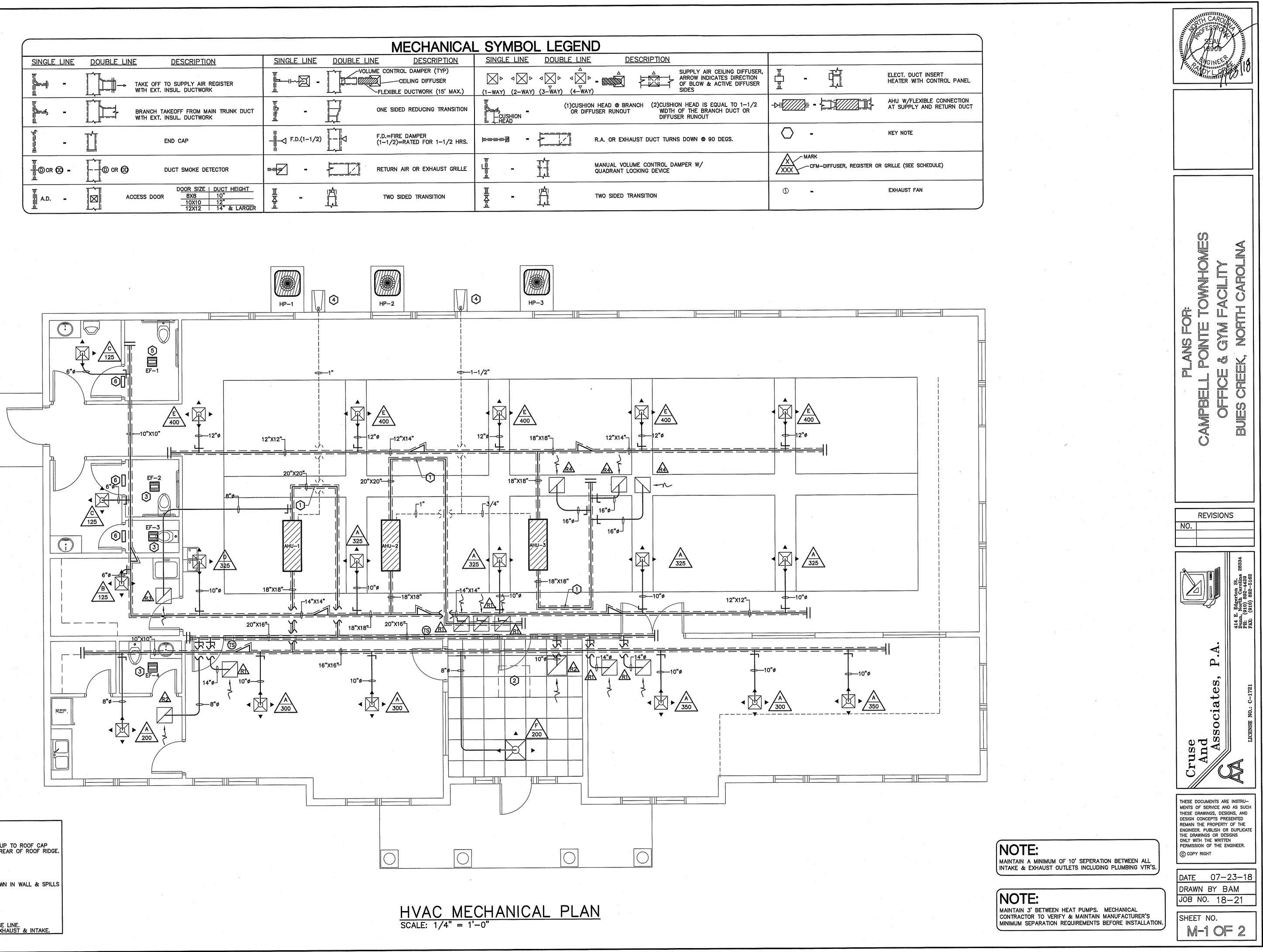
-1-1/2"

<\_1−1/2"V





| $\bigcap$   |                                                                                                   | MECHANICAL SYMBOL LEGEND                                                                                                                                |                 |
|-------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| SINGLE LINE | DOUBLE LINE DESCRIPTION                                                                           | SINGLE LINE DOUBLE LINE DESCRIPTION SINGLE LINE DOUBLE LINE DESCRIPTION                                                                                 |                 |
|             | TAKE OFF TO SUPPLY AIR REGISTER<br>WITH EXT. INSUL. DUCTWORK                                      | $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                 |                 |
|             | BRANCH TAKEOFF FROM MAIN TRUNK DUCT<br>WITH EXT. INSUL. DUCTWORK                                  | ONE SIDED REDUCING TRANSITION ONE SIDED REDUCING TRANSITION IN THE DESCRIPTION OF DIFFUSER RUNOUT OF THE BRANCH DUCT OR DIFFUSER RUNOUT DIFFUSER RUNOUT |                 |
|             |                                                                                                   | F.D.(1-1/2) F.D.(1-1/2) F.D.=FIRE DAMPER<br>(1-1/2)=RATED FOR 1-1/2 HRS. $=$ R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS.                                 | <b>○</b> -      |
|             |                                                                                                   | RETURN AIR OR EXHAUST GRILLE                                                                                                                            | XXXX CFM-DIFFUS |
| A.D         | ACCESS DOOR<br>ACCESS DOOR<br>DOOR SIZE DUCT HEIGHT<br>8X8 10"<br>10X10 12"<br>12X12 14" & LARGER | Two sided transition                                                                                                                                    | <b>0</b> -      |



# **KEY NOTES:**

10" OUTSIDE AIR DUCT WITH VOLUMETRIC DAMPER UP TO ROOF CAP (GREENHECK GRSI-10). KEEP ALL ROOF CAPS ON REAR OF ROOF RIDGE.

 $\cap$ 

- 2 ATTIC ACCESS (FIELD COORDINATE LOCATION)
- 3 6" EXHAUST AIR DUCT TO ROOF CAP.
- PVC CONDENSATE FROM AHU-1,2, & 3. TURN DOWN IN WALL & SPILLS OVER SPLASH BLOCK.
- 5 8" EXHAUST AIR DUCT TO ROOF CAP.
- 6 12X6 TRANSFER GRILLE IN WALL ABOVE DOOR

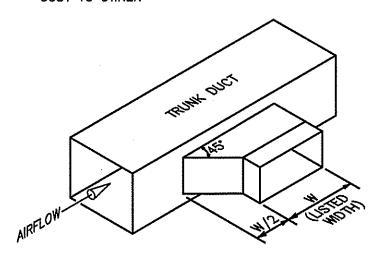
NOTE: ROOF CAPS TO BE PLACED ON REAR SIDE OF RIDGE LINE. MAINTAIN MINIMUM OF 10' SEPARATION BETWEEN EXHAUST & INTAKE.

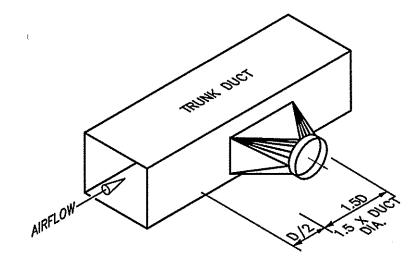
| AHU NO.   | MANUFACTURER | MODEL         | VOLTAGE   | E.S.P. | OUTSIDE<br>AIR (CFM) | CFM  | UNIT F |
|-----------|--------------|---------------|-----------|--------|----------------------|------|--------|
| AHU—1,2,3 | RHEEM        | RH1T-6024STAN | 240/1ø/60 | .46    | *                    | 2000 | 36.0   |
|           |              |               | 'TC       |        |                      |      |        |

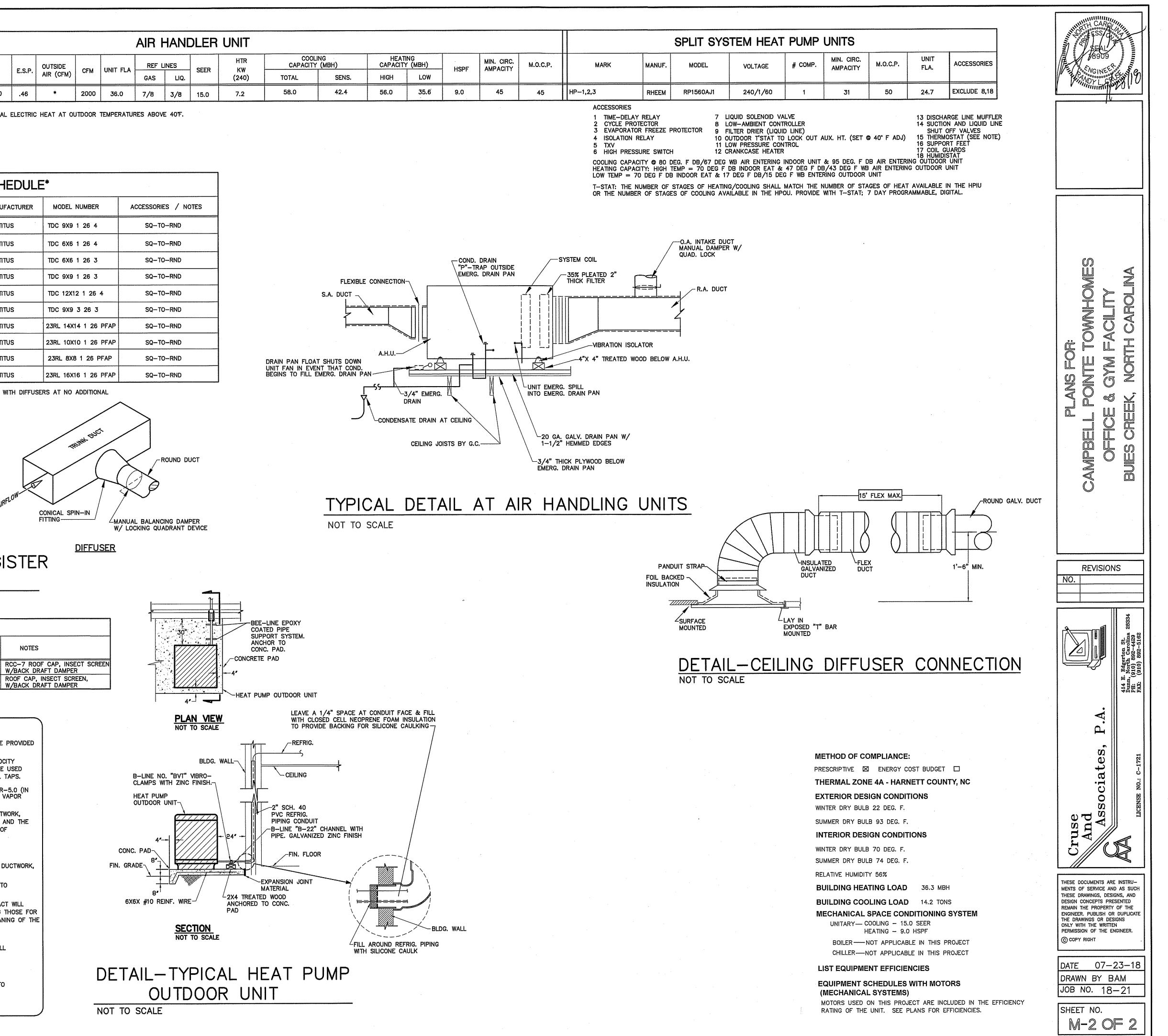
\* SEE OUTSIDE AIR CHART ON MECHANICAL SHEETS \*\* PROVIDE OUTDOOR THERMOSTAT TO LOCK OUT SUPPLEMENTAL ELECTRIC HEAT AT OUTDOOR TEMPERATURES ABOVE 40F.

|      | REGISTER, GRILLE, & DIFFUSER SCHEDULE* |            |         |             |         |          |        |              |                      |  |  |  |
|------|----------------------------------------|------------|---------|-------------|---------|----------|--------|--------------|----------------------|--|--|--|
| MARK | DESCRIPTION                            | MAX.<br>NC | NECK    | BORDER TYPE | SIZE    | MATERIAL | FINISH | MANUFACTURER | MODEL NUMBER         |  |  |  |
| Α    | DIFFUSER-4-WAY                         | 30         | 9"X9"   | SURFACE     | 15"X15" | STEEL    | WHITE  | TITUS        | TDC 9X9 1 26 4       |  |  |  |
| в    | DIFFUSER-4-WAY                         | 30         | 6"X6"   | SURFACE     | 12"X12" | STEEL    | WHITE  | TITUS        | TDC 6X6 1 26 4       |  |  |  |
| с    | DIFFUSER-3-WAY                         | 30         | 6"X6"   | SURFACE     | 12"X12" | STEEL    | WHITE  | TITUS        | TDC 6X6 1 26 3       |  |  |  |
| D    | DIFFUSER-3-WAY                         | 30         | 9"X9"   | SURFACE     | 15"X15" | STEEL    | WHITE  | TITUS        | TDC 9X9 1 26 3       |  |  |  |
| Е    | DIFFUSER-4-WAY                         | 30         | 12"X12" | SURFACE     | 18"X18" | STEEL    | WHITE  | TITUS        | TDC 12X12 1 26 4     |  |  |  |
| F    | DIFFUSER-3-WAY                         | 30         | 9"X9"   | LAY-IN      | 24"X24" | STEEL    | WHITE  | TITUS        | TDC 9X9 3 26 3       |  |  |  |
| R1   | RETURN GRILLE                          | 30         | 14"X14" | SURFACE     |         | STEEL    | WHITE  | TITUS        | 23RL 14X14 1 26 PFAP |  |  |  |
| R2   | RETURN GRILLE                          | 30         | 10"X10" | SURFACE     |         | STEEL    | WHITE  | TITUS        | 23RL 10X10 1 26 PFAP |  |  |  |
| R3   | RETURN GRILLE                          | 30         | 8"X8"   | SURFACE     |         | STEEL    | WHITE  | TITUS        | 23RL 8X8 1 26 PFAP   |  |  |  |
| R4   | RETURN GRILLE                          | 30         | 16"X16" | SURFACE     |         | STEEL    | WHITE  | TITUS        | 23RL 16X16 1 26 PFAP |  |  |  |

\* VERIFY CEILING TYPE BEFORE ORDERING, NARROW TEE REQUIREMENTS, PLASTER FRAMES, SPACE & SIZE, ETC. TO BE INCLUDED WITH DIFFUSERS AT NO ADDITIONAL COST TO OWNER







RECTANGULAR

ROUND

# TYPICAL LATERAL TO REGISTER OR BRANCH DUCT

NOT TO SCALE

| -          | EXHAUST FAN SCHEDULE    |     |                           |       |            |    |    |                                                      |  |  |
|------------|-------------------------|-----|---------------------------|-------|------------|----|----|------------------------------------------------------|--|--|
|            |                         |     | EXTERNAL                  |       | ELECTRICAL |    |    |                                                      |  |  |
| MARK       | DESCRIPTION             | CFM | CFM S.P. WATTS VOLT PH HZ | NOTES |            |    |    |                                                      |  |  |
| EF-1       | EXHAUST/FAN LIGHT COMBO | 155 | .125                      | 80    | 115        | 1ø | 60 | RCC-7 ROOF CAP, INSECT SCREEN<br>W/BACK DRAFT DAMPER |  |  |
| EF-2,3 & 4 | EXHAUST/FAN LIGHT COMBO | 75  | .25                       | 70    | 115        | 1ø | 60 | ROOF CAP, INSECT SCREEN,<br>W/BACK DRAFT DAMPER      |  |  |

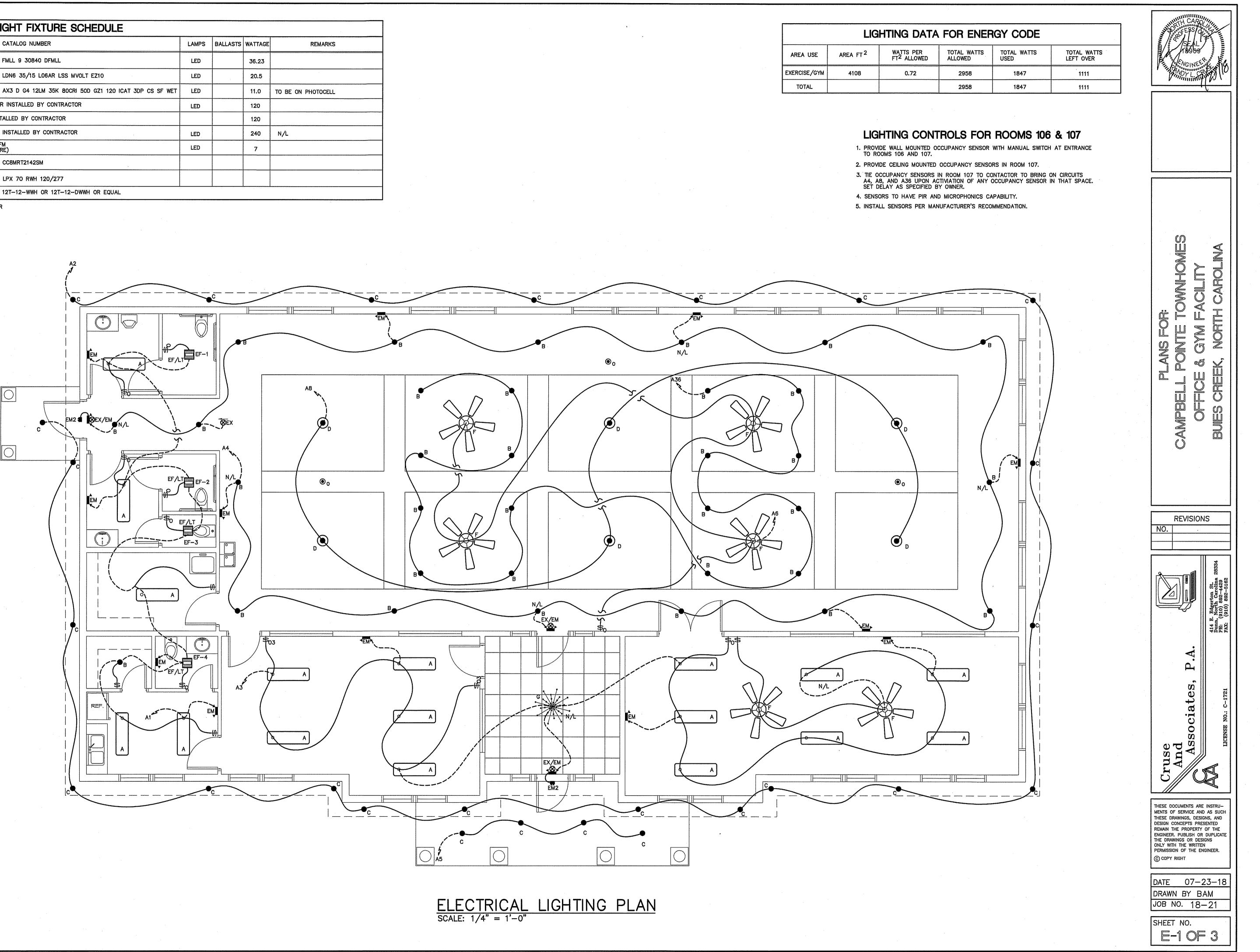
## **MECHANICAL NOTES (GENERAL)**

- DUCTWORK LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT ARE NOT SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 2. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.
- 3. SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH A MINIMUM THERMAL RESISTANCE OF R-5.0 (IN UNCONDITIONED AREAS) AND AN "FSK" VAPOR BARRIER. DIFFUSERS SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER. ALL JOINTS SHALL BE TAPED WITH A FOIL BACKED TAPE TO PROVIDE A CONTINUOUS VAPOR BARRIER.
- 4. THE ELECT. CONTRACTOR SHALL SUPPLY, AND MECH. CONTRACTOR SHALL INSTALL A SMOKE DETECTOR IN THE RETURN AIR DUCTWORK, THE EVAPORATOR FAN AND THE COMPRESSOR SHALL BE INTERLOCKED WITH THE SMOKE DETECTORS SO THAT THE COMPRESSOR AND THE EVAPORATOR FAN ARE DE-ENERGIZED WHEN SMOKE IS DETECTED. THE SMOKE DETECTORS SHALL HAVE A SUFFICIENT NUMBER OF CONTACTS TO INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM.
- 5. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
- 6. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING, DUCTWORK, OR EQUIPMENT.
- 7. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER.
- I, IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE AND INTENT MEANING OF THE PLANS AND SPECIFICATIONS. HE SHALL PROVIDE THE ENGINEER SCALED DRAWINGS OF ALL MECHANICAL DRAWINGS.
- 9. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
- 10. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. MECHANICAL CONTRACTOR TO FIELD COORDINATE LOCATION OF MECHANICAL SYSTEMS WITH ELECTRICAL AND PLUMBING
- SYSTEMS. COORDINATE WITH ALL OTHER SYSTEMS AS NECESSARY.
- 12. MECHANICAL WORK INCLUDES DEMOLITION, RELOCATION, IN EXISTING & NEW WORK AS APPLICABLE. MECHANICAL CONTRACTOR TO SUPPLY A COMPLETE SYSTEM IN EACH AREA.
- 13. DUCT SIZES SHOWN ARE NET DIMENSIONS.

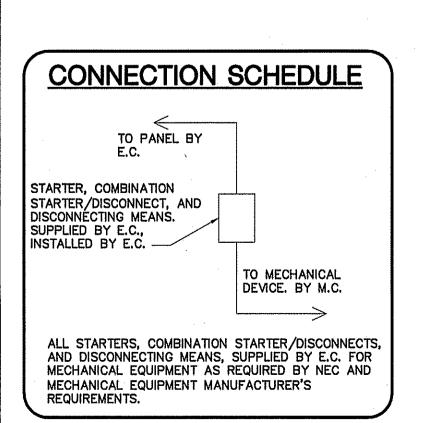
|       |                                                                 | L                                    | IGHT FIXTURE SCHEDULE                                  |     |   |       |    |
|-------|-----------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-----|---|-------|----|
| MARK  | DESCRIPTION                                                     | CRIPTION MANUFACTURER CATALOG NUMBER |                                                        |     |   |       |    |
| A     | LED FLUSH MOUNT<br>LINEAR LOW PROFILE                           | LITHONIA                             | FMLL 9 30840 DFMLL                                     | LED |   | 36.23 |    |
| в     | 6" OPEN CAN DOWN LED LIGHT                                      | LITHONIA                             | LDN6 35/15 LOGAR LSS MVOLT EZ10                        | LED | : | 20.5  |    |
| С     | 3" LED RECESSED DOWNLIGHT                                       | ACULUX                               | AX3 D G4 12LM 35K 80CRI 50D GZ1 120 ICAT 3DP CS SF WET | LED |   | 11.0  | TO |
| D     | HANGING PENDANT SELECTED & PUR                                  | LED                                  | -                                                      | 120 |   |       |    |
| F.    | CEILING FAN SELECTED & PURCHASE                                 | D BY OWNER, INS                      | TALLED BY CONTRACTOR                                   |     |   | 120   |    |
| G     | LED CHANDELIER SELECTED & PURC                                  | HASED BY OWNER                       | , INSTALLED BY CONTRACTOR                              | LED |   | 240   | N/ |
| EF/LT | EXHAUST FAN/LIGHT COMBO WITH V<br>(SEE MECHANICAL PLANS FOR CFM | WITH 75 OR 155 C<br>& STATIC PRESSL  | FM<br>JRE)                                             | LED |   | 7     |    |
| EM    | EMERGENCY LIGHT<br>WITH BATTERY BACKUP                          | SURE-LITES                           | CC8MRT2142SM                                           |     |   |       |    |
| EX    | LED TYPE EXIT LIGHT<br>WITH BATTERY BACKUP                      | SURE-LITES                           | LPX 70 RWH 120/277                                     |     |   |       |    |
| EM2   | EMERGENCY LIGHT<br>REMOTE WEATHERHEAD(S)                        | SURE-LITES                           | 12T-12-WWH OR 12T-12-DWWH OR EQUAL                     |     | 1 |       |    |

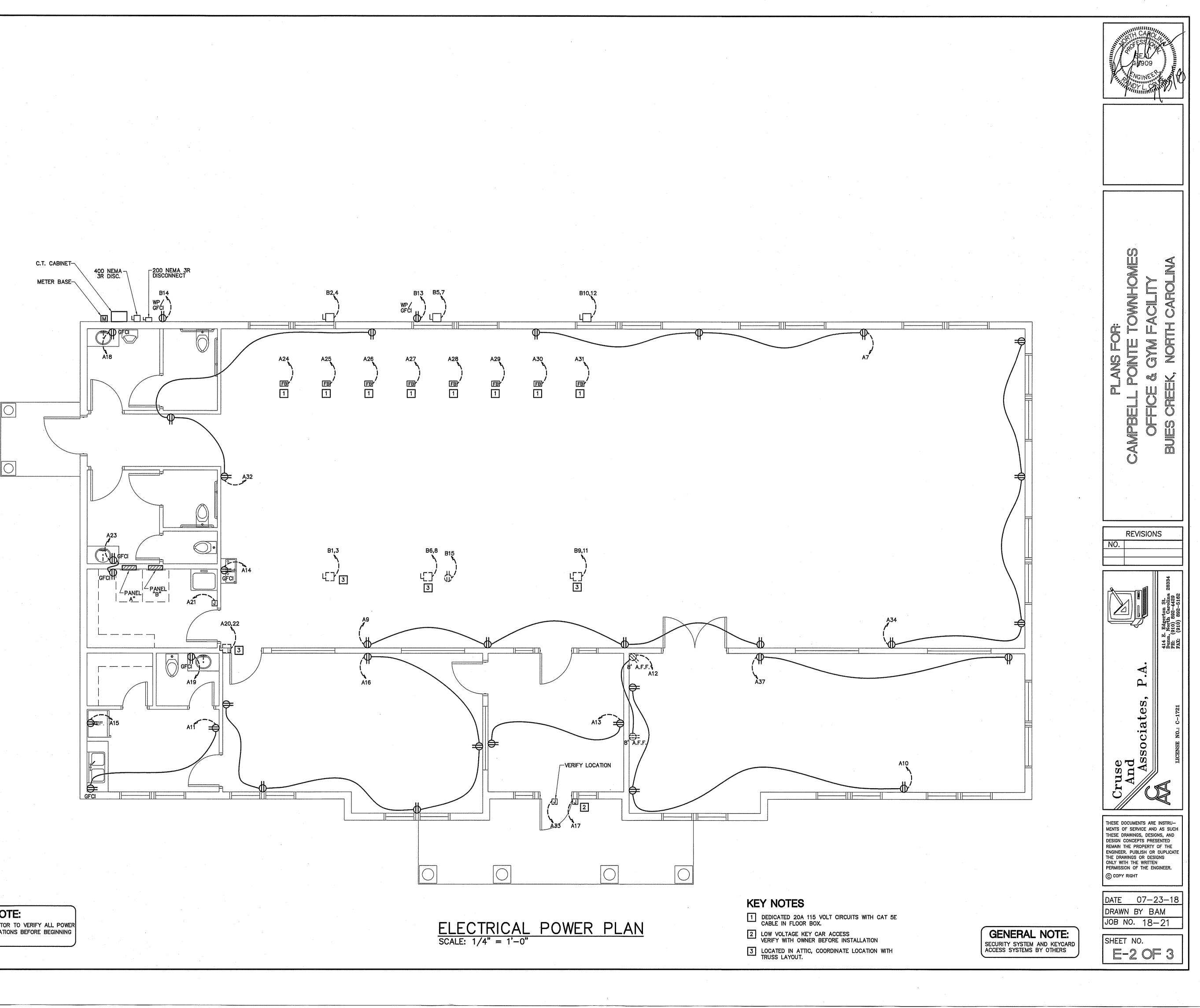
FIXTURES SELECTED BY OWNER AND PURCHASED BY CONTRACTOR

| ELECTRICAL LEGEND                      |                                                      |  |  |  |  |  |
|----------------------------------------|------------------------------------------------------|--|--|--|--|--|
| MARK                                   | DESCRIPTION                                          |  |  |  |  |  |
| ∯ w⊳                                   | 'GFI' DUPLEX WITH WEATHERPROOF<br>COVER              |  |  |  |  |  |
| d GFI                                  | GROUND FAULT INTERUPTING<br>RECEPTACLE               |  |  |  |  |  |
| ວາ 🌐                                   | 208V OR 240 V RECEPTACLE                             |  |  |  |  |  |
| •                                      | TELEPHONE/DATA OUTLET                                |  |  |  |  |  |
| IJ                                     | JUNCTION BOX                                         |  |  |  |  |  |
|                                        | FUSED DISCONNECT SWITCH                              |  |  |  |  |  |
| FB                                     | "STEEL CITY" FLOOR BOX<br>WITH CAT 5E CABLE FOR DATA |  |  |  |  |  |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | SWITCHED BRANCH CIRCUIT                              |  |  |  |  |  |
| r ~                                    | UNSWITCHED BRANCH CIRCUIT                            |  |  |  |  |  |
| ~~                                     | 120/208 VOLT CIRCUIT                                 |  |  |  |  |  |
| ψ                                      | CEILING OR ATTIC MOUNTED<br>DUPLEX RECEPTACLE        |  |  |  |  |  |
| \$-0/0                                 | LIGHT FIXTURE (WALL/CEIL.)                           |  |  |  |  |  |
|                                        | FLUORESCENT FIXTURE                                  |  |  |  |  |  |
| N/L                                    | UNSWITCHED FIXTURE                                   |  |  |  |  |  |
| 8                                      | 'EXIT' LIGHT FIXTURE, TYPE 'EX'                      |  |  |  |  |  |
| ſ,                                     | BATTERY OPERATED EMERG. LT.<br>(2-HEAD, WALL MTD.)   |  |  |  |  |  |
| \$                                     | SINGLE-POLE SWITCH                                   |  |  |  |  |  |
| \$3(4)                                 | 3-WAY SWITCH (4-WAY SWITCH)                          |  |  |  |  |  |
| ф                                      | DUPLEX RECEPTACLE                                    |  |  |  |  |  |
| ÷                                      | CEILING MOUNTED RECEPTACLE                           |  |  |  |  |  |
| *                                      | EMERGENCY LIGHT<br>REMOTE WEATHERHEAD(S)             |  |  |  |  |  |
| \$₀                                    | WALL MOUNTED OCCUPANCY SENSOR<br>WITH SWITCH         |  |  |  |  |  |
| ۵                                      | CEILING MOUNTED OCCUPANCY SENSOR                     |  |  |  |  |  |



| ELEC                                    | ELECTRICAL LEGEND                                    |  |  |  |  |  |
|-----------------------------------------|------------------------------------------------------|--|--|--|--|--|
| MARK                                    | DESCRIPTION                                          |  |  |  |  |  |
| ⊕ w₽                                    | 'GFI' DUPLEX WITH WEATHERPROOF<br>COVER              |  |  |  |  |  |
| ∯ GFI                                   | GROUND FAULT INTERUPTING<br>RECEPTACLE               |  |  |  |  |  |
| ∯ 1G                                    | 208V OR 240 V RECEPTACLE                             |  |  |  |  |  |
| 4                                       | TELEPHONE/DATA OUTLET                                |  |  |  |  |  |
| Ū                                       | JUNCTION BOX                                         |  |  |  |  |  |
|                                         | FUSED DISCONNECT SWITCH                              |  |  |  |  |  |
| FB                                      | "STEEL CITY" FLOOR BOX<br>WITH CAT 5E CABLE FOR DATA |  |  |  |  |  |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | SWITCHED BRANCH CIRCUIT                              |  |  |  |  |  |
| 27                                      | UNSWITCHED BRANCH CIRCUIT                            |  |  |  |  |  |
| 2 P                                     | 120/208 VOLT CIRCUIT                                 |  |  |  |  |  |
| ф                                       | CEILING OR ATTIC MOUNTED<br>DUPLEX RECEPTACLE        |  |  |  |  |  |
| \$-0/0                                  | LIGHT FIXTURE (WALL/CEIL.)                           |  |  |  |  |  |
|                                         | FLUORESCENT FIXTURE                                  |  |  |  |  |  |
| N/L                                     | UNSWITCHED FIXTURE                                   |  |  |  |  |  |
| 8                                       | 'EXIT' LIGHT FIXTURE, TYPE 'EX'                      |  |  |  |  |  |
| ¢                                       | BATTERY OPERATED EMERG. LT.<br>(2-HEAD, WALL MTD.)   |  |  |  |  |  |
| \$                                      | SINGLE-POLE SWITCH                                   |  |  |  |  |  |
| \$_3(4)                                 | 3-WAY SWITCH (4-WAY SWITCH)                          |  |  |  |  |  |
| ф                                       | DUPLEX RECEPTACLE                                    |  |  |  |  |  |
| ф                                       | CEILING MOUNTED RECEPTACLE                           |  |  |  |  |  |
| <b></b>                                 | EMERGENCY LIGHT<br>REMOTE WEATHERHEAD(S)             |  |  |  |  |  |
| \$,                                     | WALL MOUNTED OCCUPANCY SENSOR<br>WITH SWITCH         |  |  |  |  |  |
| ۰                                       | CEILING MOUNTED OCCUPANCY SENSOR                     |  |  |  |  |  |





GENERAL NOTE: ELECTRICAL CONTRACTOR TO VERIFY ALL POWER & DATA OUTLET LOCATIONS BEFORE BEGINNING CONSTRUCTION.

### **ELECTRICAL NOTES (GENERAL)**

1. THE ELECTRICAL INSTALLATION, EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL, AS A MINIMUM, BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), ALL APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL CODES, LAWS, AND ORDINANCES, AND RULINGS OF THE INSPECTION AUTHORITIES HAVING JURISDICTION. ALL FEES, PERMITS, ETC., ASSOCIATED WITH THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

2. THE DRAWINGS GENERALLY INDICATE THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, BOXES, FITTINGS, AND SPECIALTIES WHICH MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SUCH ITEMS REQUIRED TO COMPLETE THE INSTALLATION ACCORDING TO INDUSTRY ACCEPTED PRACTICES SHALL BE INCLUDED IN THE BID.

3. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED AND LABELED BY UNDERWRITERS LABORATORIES, INC.

4. ALL PENETRATIONS OF FIRE WALLS SHALL BE SEALED WITH APPROVED SEALING MATERIALS TO MAINTAIN THE FIRE RATING OF THE WALLS. 5. THE CONTRACTOR SHALL VERIFY WRE AND FUSE/CIRCUIT BREAKER SIZING FOR ALL MECHANICAL EQUIPMENT PRIOR TO PURCHASING MATERIALS AND INSTALLING BRANCH CIRCUITS.

6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. APPARENT INTERFERENCES OR CONFLICTS SHALL BE REPORTED TO THE PRIME CONTRACTOR AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

7. THE ELECTRICAL CONTRACTOR SHALL CONNECT BRANCH CIRCUITS TO THE MAIN LINE TERMINALS OF EQUIPMENT FURNISHED BY OTHER CONTRACTORS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY NECESSARY SWITCHES, DISCONNECTS, OR OVERCURRENT PROTECTION AHEAD OF SUCH EQUIPMENT.

8. RACEWAYS ARE SHOWN SCHEMATICALLY AND MAY BE REROUTED IN THE FIELD. THEY SHALL BE INSTALLED AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES. THEY SHALL BE RUN CONCEALED WITHIN WALLS OR BUILDING STRUCTURES WHEREVER POSSIBLE. 9. ALL RACEWAYS, EQUIPMENT, ETC., ABOVE A SUSPENDED CEILING SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE CEILING SO AS NOT TO

BLOCK ANY TILE OR FIXTURE ACCESS. 10. THE MINIMUM ALLOWABLE SIZE FOR ANY CONDUIT, IMC, OR EMT SHALL BE 1/2" AND MAY BE USED FOR 2#12 WIRE SWITCHLEGS ONLY. A SWITCHLEG SHALL BE DEFINED AS THE RUN OF CONDUIT FROM THE SWITCH OUTLET BOX TO THE FIRST OUTLET BEING SWITCHED.

11. FULL WEIGHT GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN THE FOLLOWING AREAS:

A. ON THE EXTERIOR OF THE BUILDING OR ROOF,

B. VERTICAL DROPS WHERE THE CONDUIT CANNOT BE ANCHORED TO WALLS OR OTHER SUPPORT

STRUCTURES, C. WHERE SUBJECT TO MECHANICAL DAMAGE.

12. ALL WIRE AND CABLE SHALL BE COPPER AND HAVE 600 VOLT THHN-THWN INSULATION. ALUMINUM WIRING SHALL NOT BE PERMITTED. ROMEX IS ACCEPTABLE WHERE PERMITTED BY CODE.

13. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR CONTROL WIRING, WHICH MAY BE #14 AWG. CONTROL WIRING SHALL USE STRANDED CONDUCTORS UNLESS OTHERWISE NOTED.

14. ALL METAL RACEWAY SYSTEMS SHALL BE MADE ELECTRICALLY CONTINUOUS. THE RACEWAY SYSTEM SHALL NOT BE THE SOLE GROUNDING METHOD. AN INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED FOR ALL FEEDERS AND BRANCH CIRCUITS. AT RECEPTACLES, A GREEN GROUND CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL OF THE RECEPTACLE.

15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE FUSE AND DISCONNECT SWITCH SIZES WITH THE MECHANICAL EQUIPMENT SUPPLIER PRIOR TO PURCHASE AND INSTALLATION OF BRANCH CIRCUIT EQUIPMENT. IF EQUIPMENT SIZING CHANGES FROM DESIGN SIZES, CIRCUITS SHALL BE RESIZED ACCORDINGLY.

16. LIGHT FIXTURES FOR INSTALLATION IN A SUSPENDED CEILING SHALL BE SECURELY FASTENED TO THE CEILING SUSPENSION SYSTEM IN A MANNER TO PREVENT FIXTURES FROM FALLING. IN ADDITION, 16 GAGE WIRE HANGERS SHALL BE FASTENED TO THE FOUR CORNERS OF THE FIXTURES.

17. CONNECTIONS TO FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT TO ALLOW THE FIXTURE TO BE LIFTED OUT OF THE GRID AND MOVED TO AN ADJACENT GRID LOCATION.

18. BREAKERS SUPPLYING HVAC OR REFRIGERATION EQUIPMENT SHALL BE HACR TYPE.

19. 3/4" CONDUIT IS MINIMUM ALLOWABLE SIZE EXCEPT AS INDICATED IN #10. CONDUIT FILL NOT TO EXCEED 40% AS PERMITTED BY THE NATIONAL ELECTRIC CODE.

20. ALL CONDUCTORS TO BE INSTALLED IN CONDUIT (EXCEPT WHERE ROMEX IS INSTALLED). EMT FITTINGS TO BE COMPRESSION TYPE, INSULATED THROAT.

21. NOT USED

22. DATA, SECURITY, THEATRICAL, AND VIDEO SYSTEMS TO BE PROVIDED BY OWNER. ROUGH-IN OF OUTLETS AND CONDUIT WILL BE BY CONTRACTOR AS SHOWN ON DRAWINGS. 23. NOT USED

24. NO, 10 AWG CONDUCTORS SHALL BE USED FOR 20 AMP BRANCH CIRCUIT HOME RUNS EXCEEDING 50 FT. TO THE JUNCTION POINT. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 10 AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 100 FEET TOTAL LENGTH.

25. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. SPLICES WILL NOT BE MADE EXCEPT WITHIN ACCESSIBLE OUTLET OR JUNCTION BOXES, TROUGHS, OR GUTTERS.

26. MAKE CONDUCTOR LENGTHS FOR PARALLEL CIRCUITS EQUAL.

27. INSTALL TELEPHONE OUTLETS WITH 3/4" EMPTY CONDUIT AND PULL CORD. STUB OUT ABOVE CEILING. PHONE SYSTEM INSTALLED BY OWNER. 28. ALL CONDUIT WITHOUT CONDUCTORS SHALL HAVE NYLON PULLCORDS INSTALLED.

29. THE CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION, AND REVIEW

ANY CONFLICTS THAT ARE NOTED WITH THE ENGINEER. 30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES FOR PERMITS AND INSPECTIONS. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ELECTRIC UTILITY CONNECTION FEES AND LINE EXTENSION FEES.

31. ELECTRICAL CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION WHICH DEVELOPS OBJECTIONABLE NOISES SHALL BE MADE FROM THE CONDUIT SYSTEM WITH SHORT LENGTHS OF FLEXIBLE "LIQUID-TITE" CONDUIT.

32. ALL WIRE TERMINATIONS AND EQUIPMENT TO BE RATED FOR 75° C MINIMUM.

33. ELECTRICAL CONTRACTOR TO MAINTAIN 2' OF SEPARATION ON RECEPTACLES ON OPPOSITE SIDES OF ANY FIRE RATED WALL PER 2017 N.E.C. 300.21.

34. WIRING TO DISCONNECT SWITCH AND DISCONNECT SWITCH SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. WIRING FROM THE DISCONNECT TO THE EQUIPMENT SHALL BE BY THE MECHANICAL CONTRACTOR.

### **ELECTRICAL SYSTEM AND EQUIPMENT**

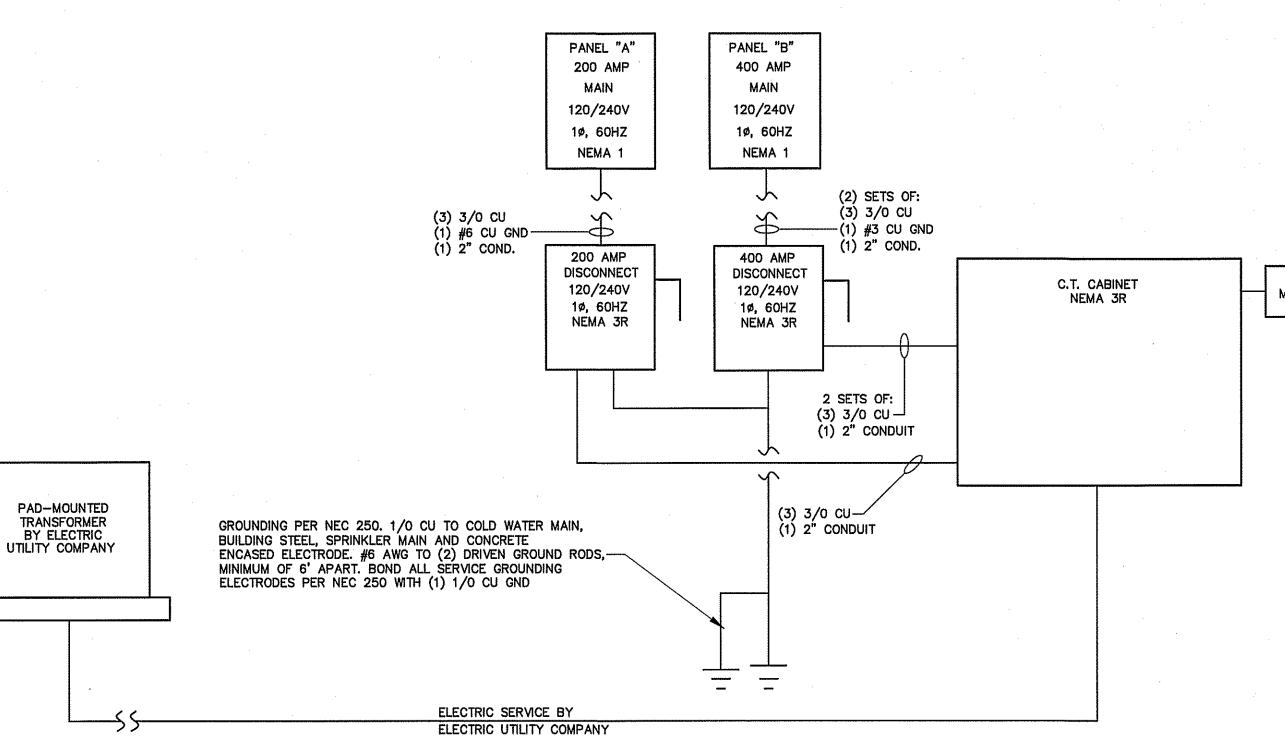
| METHOD OF COMPLIA            | NCE:                         |           |         |                      |  |
|------------------------------|------------------------------|-----------|---------|----------------------|--|
| ENERGY CODE:<br>ASHRAE 90.1: | PRESCRIPTIVE<br>PRESCRIPTIVE |           |         | FORMANCE<br>FORMANCE |  |
| REFER TO DRAWINGS FOR        | RISER DIAGRAM                | AND PANE  | L SCHEE | ULES                 |  |
| LIGHTING SCHEDULE            |                              |           |         |                      |  |
| LAMP TYPE REQUIRED IN        | FIXTURE:                     | S         | EE SCHE | DULE                 |  |
| NUMBER OF LAMPS IN FIX       | TURE:                        |           |         |                      |  |
| BALLASTS TYPE USED IN        | FIXTURE:                     |           |         |                      |  |
| NUMBER OF BALLASTS IN        | FIXTURE:                     |           |         |                      |  |
| TOTAL WATTAGE PER FIXT       | URE:                         |           |         |                      |  |
| TOTAL INTERIOR WATTAGE       | SPECIFIED VS.                | ALLOWED:  |         |                      |  |
| TOTAL EXTERIOR WATTAGE       | SPECIFIED VS.                | ALLOWED:  |         |                      |  |
| ADDITIONAL PRESCR            | IPTIVE COMPL                 | IANCE     |         |                      |  |
| 506.2.1 MORE EFFICIENT N     | IECHANICAL EQU               | IPMENT    |         |                      |  |
| 506.2.2 REDUCED LIGHTIN      | G POWER DENSI                | ſY        | X)      |                      |  |
| 506.2.3 ENERGY RECOVER       | Y VENTILATION S              | SYSTEMS   |         |                      |  |
| 506.2.4 HIGHER EFFICENC      | Y SERVICE WATE               | R HEATING |         |                      |  |
| 506.2.5 ON-SITE SUPPLY       | OF RENEWABLE                 | ENERGY    |         |                      |  |

506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

|            | PANEL: A<br>VOLTS: 120/2<br>ENCLOSURE | 240 AMPS: 200              | TYPE: _<br>S | "NQOD" MOUNTING: 2          | 2.000                    | Ì               | NOTE:<br>ÆRIFY AIC RATING WITH<br>JTILITY COMPANY BEFORE<br>DRDERING PANELS. | )        |             | PANEL<br>VOLTS<br>ENCLC | : 120/; | 240 AMPS: 400<br>E: NEMA 1 0: 1 | TYP      | ACTURER: <u>SQ. D</u> NO. OF S<br>E: <u>"NQOD"</u> MOUNTING:<br>SHORT CIRCUIT RATING: _2<br>PER BUG: 121 GROUND BAR KTT: DNE | : <u>FLUS</u><br>22,000 | H     |            | ·                       |
|------------|---------------------------------------|----------------------------|--------------|-----------------------------|--------------------------|-----------------|------------------------------------------------------------------------------|----------|-------------|-------------------------|---------|---------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------|------------|-------------------------|
| L1 L2      | CIRCUIT<br>POLES<br>TRIP              | ASSIGNMENT                 | PHASE<br>그 의 | ASSIGNMENT                  | TRIP<br>POLES<br>CIRCUIT | L1 L2           |                                                                              | L1       | L2          | CIRCUIT                 | TRIP    | ASSIGNMENT                      | PH/<br>5 |                                                                                                                              | TRIP                    | POLES | L1 CIRCUIT | L2                      |
| 7.5        |                                       | RESTROOM LIGHTS/EX. FANS   | 0            | SOFFIT LIGHTING             | 20 1 2                   | 3.8             |                                                                              | 36.0     | $\ge$       | 1 2                     | 45      | AIR HANDLING UNIT #1            | Ò        | HEAT PUMP UNIT # 1                                                                                                           | 50                      | 2     | 2 24.7     | $\geq$                  |
| 5.6        |                                       | OFFICE & YOGA RM. LTS/FANS | 0            | EXERCISE RM. PERIMETER LTS. |                          | 2.7             |                                                                              | $\ge$    | 36.0        | 3                       |         |                                 |          | 0                                                                                                                            |                         |       | 4 🔀        | 24.7                    |
| .4         |                                       |                            | 0            | EXERCISE ROOM CEILING FANS  | _{                       | 4.0             |                                                                              | 24.7     | $\geq \leq$ | 5 2                     | 50      | HEAT PUMP UNIT 2                | 0        | AIR HANDLING UNIT 2                                                                                                          | 45                      | 2     | 6 36.0     |                         |
| 4.5        |                                       | ROOM 107 WALL RECEPTACLES  | ll           | ROOM 107 HANGING PENDANTS   |                          | 6.0             |                                                                              | $\geq$   | 24.7        | 7                       |         |                                 |          | 0                                                                                                                            |                         |       | 8 🔀        | 36.0                    |
| 6.0        |                                       | ROOM 107 WALL RECEPTACLES  |              | YOGA ROOM RECEPTACLES       | 20 1 10                  | 4.5             |                                                                              | 36.0     | $\geq$      | 92                      | 45      | AIR HANDLING UNIT 3             | 0        | HEAT PUMP UNIT # 3                                                                                                           | 50                      |       | 10 24.7    |                         |
| 3.0        | 11 1 20                               | BREAK ROOM RECEPTACLES     | <u> </u>     | YOGA RM. TELEVISION OUTLETS |                          | 7.0             |                                                                              | $\geq$   | 36.0        | 11                      |         |                                 |          | 0                                                                                                                            |                         | 1     | 12 🔀       | 24.7                    |
| 3.0        | 13 1 20                               | FOYER RECEPTACLES          | 0            | DRINKING FOUNTAIN           | 20 1 14                  | 5.6             |                                                                              | 1.5      | $\geq$      | 13 1                    | 20      | HEAT PUMP CONV. RECEPT.         | 0        | SERVICE CONVENIENCE RECEP                                                                                                    |                         | 1 1   | 4 1.5      | $\geq$                  |
| 8.0        | 15 1 20                               | REFRIGERATOR               | 0            | OFFICE RECEPTACLES          | 20 1 16                  | 7.5             |                                                                              | $\ge$    | 1.5         | 15 1                    | 20      | AHU CONV. RECEPTACLE            |          | 0                                                                                                                            | 20                      | 1     | 16 🔀       | X                       |
| 1.0        | 17 1 20                               | KEY CARD SYSTEM            | 0            | MEN'S RESTROOM GFCI RECEPT  |                          |                 |                                                                              | Х        | $\succ$     | 17 1                    | 20      | SPARE                           | 0        | SPARE                                                                                                                        | 20                      | 1 1   | 18 X       |                         |
| 1.5        | 19 1 20                               | BREAKROOM RESTROOM GFCI    | 0            | WATER HEATER                | 30 2 20                  | 18.8            | COORDINATE                                                                   | $\times$ | X           | 19 1                    | 20      | SPARE                           |          | o SPARE                                                                                                                      | 20                      | 1     | 20 🖂       | $\int \mathbf{x}$       |
| 6.6        | 21 1 20                               | BOOSTER PUMP               | 0            |                             | 22                       | 18.8 🔀          | LOCATION                                                                     | Х        | $\ge$       | 21 1                    | 20      | SPARE                           | 0        | SPARE                                                                                                                        | 20                      | 1 2   | 22 X       | $\geq$                  |
| 3.0        | 23 1 20                               | ROOMS 101 & 102 GFCI'S     | 0            | FLOOR BOX TREADMILL REC.    | 20 1 24                  | 10.0            | W/ CIVIL PLAN                                                                | $\ge$    | 2.0         | 23 1                    | 20      | HOTBOX HEAT TRACE TAPE          |          | o SPARE                                                                                                                      | 20                      | 1     | <u>24</u>  | X                       |
| 10.0 >>>   | 25 1 20                               | FLOOR BOX TREADMILL REC.   | 0            | FLOOR BOX TREADMILL REC.    | 20 1 26                  | 10.0 🔀          |                                                                              | Х        | $\bowtie$   | 25 1                    | 20      | SPARE                           | 0        | SPARE                                                                                                                        | 20                      | 1 2   | 26 X       | $\geq$                  |
| 10.0       | 27 1 20                               | FLOOR BOX TREADMILL REC.   | 0            | FLOOR BOX TREADMILL REC.    | 20 1 28                  | > 10.0          |                                                                              | $\succ$  | X           | 27 1                    | 20      | SPARE                           |          | O SPARE                                                                                                                      | 20                      | 1 2   | 28 🖂       | $\int \mathbf{x}$       |
| 10.0       | 29 1 20                               | FLOOR BOX ELLIPTICAL REC.  | 0            | FLOOR BOX ELLIPTICAL REC.   | 20 1 30                  | 10.0 🔀          |                                                                              | Х        | $\bowtie$   | 29 1                    | 20      | SPARE                           | 0        | SPARE                                                                                                                        | 20                      | 1     | 30 X       | $\geq$                  |
| 10.0       | 31 1 20                               | FLOOR BOX ELLIPTICAL REC.  | 0            | ROOM 107 WALL RECEPTACLES   | <u>, 20 1 32</u>         | 4.5             |                                                                              | $\ge$    | X           | 31 1                    | 20      | SPARE                           |          | o SPARE                                                                                                                      | 20                      | 1     | 32 🖂       | $\langle x \rangle$     |
| 5.0        | 33 1 20                               | BUILDING SIGN              | 0            | ROOM 107 WALL RECEPTACLES   | s 20 1 34                | 6.0             |                                                                              | X        | $\square$   | 33 1                    | 20      | SPARE                           | 0        | SPARE                                                                                                                        | 20                      | 1 3   | 34 X       | $\geq$                  |
| > ×        | 35 1 20                               | SPARE                      | 0            | EXERCISE ROOM DOWNLIGHTS    | 20 1 36                  | 2.8             |                                                                              | $\times$ | X           | 35 1                    | 20      | SPARE                           |          | o SPARE                                                                                                                      | 20                      | 1     | 36 🔀       | X                       |
| 3.0        | 37 1 20                               | YOGA ROOM RECEPTACLES      | 0            | SPARE                       | 20 1 38                  | $\times$        |                                                                              | X        | $\bowtie$   | 37 1                    | 20      | SPARE                           | 0        | SPARE                                                                                                                        | 20                      | 1     | 38 X       | $\geq$                  |
| $\times$ x | 39 1 20                               | SPARE                      | 0            | SPARE                       | 20 1 40                  | > ×             |                                                                              | $\succ$  | X           | 39 1                    | 20      | SPARE                           |          | o SPARE                                                                                                                      | 20                      | 1     | 40 🔀       | $\left[ \times \right]$ |
| $\times$   | 41 1 20                               | SPARE                      | 0            | SPARE                       | 20 1 42                  | $  \times   > $ |                                                                              | х        | $\geq$      | 41 1                    | 20      | SPARE                           | 0        | SPARE                                                                                                                        | 20                      | 1     | 42 X       | $\geq$                  |

L1 = 116.7 AL1 = 114.9 A

| ELECTRICAL LOAD CALCULATIONS<br>4108 SQUARE FEET                    | <u>VA</u>        |
|---------------------------------------------------------------------|------------------|
| NONCONTINUOUS LOADS:                                                |                  |
| 36 RECEPTACLES @ 180 VA EA.<br>1ST 10000                            | 6480<br>6480     |
| REMAINDER © 50%<br>TOTAL                                            | <u>0</u><br>6480 |
| CONTINUOUS LOADS:                                                   |                  |
| GENERAL LIGHTING LOAD VA/SQ. FT.<br>4108 SQ. FT. 2.0<br>8216 x 1.25 | 8216<br>10270    |
| AIR HANDLER UNIT                                                    | 25920            |
| HEAT PUMPS                                                          | 17784            |
| EQUIPMENT:                                                          | 17431            |
| 25% OF LARGEST MOTOR                                                | 1482             |
| GRAND TOTAL                                                         | 79367            |
| 331 AMPS @ 120/240V, 1ø, 60HZ                                       |                  |



L1 = 185.1 AL2 = 184.1 A

| FEEDER SCHEDULE   |                      |                     |         |  |  |  |  |
|-------------------|----------------------|---------------------|---------|--|--|--|--|
| UNIT              | FEEDERS              | FUSED<br>DISCONNECT | CONDUIT |  |  |  |  |
| AIR HANDLER 1,2,3 | 2#8 CU, 1#10 CU GND  | 60                  | 3/4"    |  |  |  |  |
| HEAT PUMP 1,2,3   | 2#8 CU, 1#10 CU GND  | 60                  | 3/4"    |  |  |  |  |
| WATER HEATER      | 2#10 CU, 1#12 CU GND | 30                  | 3/4"    |  |  |  |  |

ELECTRICAL RISER DIAGRAM

