STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) 4 TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	BUSINESS	7,000	23,000		23,000
A. PERIMETER B. TOTAL BUIL	WHICH FRONTS A I	=(P)		20 FEET MININ	(F
A. PERIMETER B. TOTAL BUIL C. RATIO (F/F D. W = MINIM E. PERCENT O	WHICH FRONTS A I DING PERIMETER) = (F, UM WIDTH OF PUBL F FRONTAGE INCRE	PUBLIC WAY OR OPEN =(P)	(W) .25] X W/30=		(F
A. PERIMETER B. TOTAL BUIL C. RATIO (F/F D. W = MINIM E. PERCENT O NLIMITED AREA	WHICH FRONTS A I DING PERIMETER () = (F, UM WIDTH OF PUBL F FRONTAGE INCRE APPLICABLE UNDER	PUBLIC WAY OR OPEN =(P) /P) IC WAY = ASE = 100[F/P-0 R CONDITIONS OF SEC	(W) .25] X W/30=	(%)	MUM WIDTH =(F
A. PERIMETER B. TOTAL BUIL C. RATIO (F/F D. W = MINIM E. PERCENT O NLIMITED AREA AXIMUM BUILDII	WHICH FRONTS A I DING PERIMETER () = (F, UM WIDTH OF PUBL F FRONTAGE INCRE APPLICABLE UNDER NG AREA = TOTAL	PUBLIC WAY OR OPEN =(P) /P) IC WAY = ASE = 100[F/P-0 R CONDITIONS OF SEC	(W) .25] X W/30= TION 507. IN THE BUILDING	(%) S x D (MAXIMUI	

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE 1 REFERENCE 1
BUILDING HEIGHT IN FEET (TABLE 504.3) ²	FEET <u>55</u>	23'-8"	
BUILDING HEIGHT IN STORIES (TABLE 504.4)3	STORIES 3	STORIES 1	

1. PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4. 2. THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1. 3. THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE		RATING	DETAIL	DESIGN #	DESIGN # FOR	DESIGN
	SEPARATION DISTANCE	REQ'D	PROVIDED .	I AND	l FOR	RATED	# FOR
	(FEET)		(W/* REDUCTION)	SHEET #	RATED ASSEMBLY	PENETRATION	RATED JOINTS
STRUCTURAL FRAME,			(NEDOO HON)	Π	ASSEMBL I		001113
INCLUDING COLUMNS,		٥				ALL STATE OF THE S	
GIRDERS, TRUSSES	_	٧		_	# ····	_	
BEARING WALLS	-						
EXTERIOR			_				
NORTH							
		0			_	-	
EAST WEST		0	-		_	••••	
		0	****				
SOUTH		0	****			_	****
INTERIOR		0	-			-	
NONBEARING WALLS & PARTITIONS			-	-	*****		*******
EXTERIOR	-	0	tracks.				
NORTH	 	0		-		-	
EAST		0					-
WEST		0	****	_	_		_
SOUTH		0	· 		_		
INTERIOR	-	0			_	-	
FLOOR CONSTRUCTION INCLUDING SUPPORTING	******	0		_	_		
BEAMS AND JOISTS							
FLOOR CEILING ASSEMBLY	_		enem	*****		_	
COLUMNS SUPPORTING FLOORS	***		-	-			
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0	_				
ROOF CEILING ASSEMBLY	•••	_	_			-	
COLUMNS SUPPORTING ROOF							
SHAFT ENCLOSURES—EXIT				-			
SHAFT ENCLOSURES-OTHER			-				
CORRIDOR SEPARATION		0	_			•	_
OCCUPANCY SEPARATION		_					
PARTY/FIRE WALL SEPARATION							
SMOKE BARRIER SEPARATION			_				
TENANT/DWELLING UNIT/ SLEEPING UNIT SEPARATION				_			*****
SLEEPING UNIT SEPARATION INCIDENTAL USE SEPARATION INDICATE SECTION NUMBER DEPA							

*INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS

(FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	(%)	ACTUAL SHOWN ON PLANS (%)
82'	UP; NS	NO LIMIT	42%

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING: NO YES	
EXIT SIGNS: NO YES	
FIRE ALARM: 🖾 NO 🖂 YES	
SMOKE DETECTION SYSTEMS: ☒ NO ☐ YES ☐ PART	1AL
CARBON MONOXIDE DETECTION: NO YES	

LIFE SAFETY PLAN REQUIREMENTS:

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

ACCESSIBLE DWELLING UNITS N/A

	(SECTION 1107)											
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	UNITS	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED					

ACCESSIBLE PARKING-SEE SITE PLAN-SEE SITE PLAN

LOT OR PARKING AREA	TOTAL # OF	TOTAL #					
ANLA	REQUIRED	PROVIDED	REGULAR WITH 5'	REGULAR WITH 5' VAN SPACES WITH			
			ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED	
	24	37	2			2	

PLUMBING FIXTURE REQUIREMENTS

					(<u> </u>	2902.	1)			
Ü	ISE	WATERCL		SETS	URINALS	l	_AVATORI	ES	SERVICE SINK	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX	OKIIVALS	MALE	FEMALE	UNISEX	SINK	REGULAR	ACCESSIBLE
TENANT	REQUIRED		-	1 .				1	*	*	*
BUSINESS	PROVIDED		_	1	_			1	*	*	*
TENANT	REQUIRED		_	1		-		1	*	*	*
	PROVIDED		<u>-</u>	1		-	_	1	*	*	*
TENANT 3	REQUIRED		_	1		-	_	1	*	*	*
BUSINESS	PROVIDED	-	***	1	_	_		1	*	*	*
TENANT 4	REQUIRED			1		_	•	1		_	
BUSINESS	PROVIDED			1	=***	-		1	1	1	1

*NCSBC 2902.6

SPECIAL APPROVALS SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)

DESIGN LOADS: STRUCTURAL DESIGN-EXISTING BUILDING SNOW (I_S) ____ SEISMIC (I_E) ____ LIVE LOADS: MEZZANINE Reviewed for Code Compliance ______ PSF Harnett GROUND SNOW LOAD: ____ PSF COUNTY 2/13/2023 BASIC WIND SPEED ____ MPH (ASCE-7) WIND LOAD: EXSPOSURE CATEGORY _____ SEISMIC DESIGN CATEGORY PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS: OCCUPANCY CATEGORY (TABLE 1604.5) DATA SOURCE:

FIELD TEST

PRESUMPTIVE

HISTORICAL DATA BASIC 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 ANALYSIS PROCEDURE

SIMPLIFIED

EQUIVALENT LATERAL FORCE

DYNAMIC ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED?
YES NO LATERAL DESIGN CONTROL: EARTHQUAKE 🖂 WIND SOIL BEARING CAPACITIES: FIELD TEST (PROVIDE COPY OF TEST REPORT) _____ PRESUMPTIVE BEARING CAPACITY PILE SIZE, TYPE, AND CAPACITY_____ **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 VS THE ANNUAL ENERGY COST FOR THE PROPOSED DESIGN. EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE) EXEMPT BUILDING NO YES PROVIDE CODE OR STATUTORY REFERENCE: CLIMATE ZONE: METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE ASHRAE 90.1 PERFORMANCE PRESCRIPTIVE OTHER: PERFORMANCE (SPECIFY SOURCE) THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY) ROOF/CEILING ASSEMBLY (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY R-19 + R-11 LS WITH R-3 THERMAL BLOCKS U-VALUE OF TOTAL ASSEMBLY N/A R-VALUE OF INSULATION: N/A SKYLIGHTS IN EACH ASSEMBLY N/A U-VALUE OF SKYLIGHT: <u>N/A</u> TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY N/A EXTERIOR WALLS (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY R-0.0+R-15.8 CI, WITH BRICK VENEER U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: N/A OPENINGS (WINDOWS OR DOORS WITH GLAZING) DOUBLE PANE, H.M. FRAME U-VALUE OF ASSEMBLY 0.45 SOLAR HEAT GAIN COEFFICIENTI_ PROJECTION FACTOR N/A DOOR R-VALUES _____ WALLS BELOW GRADE (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY N/A U-VALUE OF TOTAL ASSEMBLY N/A R-VALUE OF INSULATION N/A FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY N/A U-VALUE OF TOTAL ASSEMBLY N/A R-VALUE OF INSULATION N/A FLOOR SLAB ON GRADE DESCRIPTION OF ASSEMBLY __SLAB-ON-GRADE R-VALUE OF INSULATION R-15 TO BOTTOM OF FOOTING U-VALUE OF TOTAL ASSEMBLY _____ HORIZONTAL / VERTICAL REQUIREMENT ____ SLAB HEATED ? NO Summary: ENERGY CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE 2018 NORTH CAROLINA STATE BUILDING CODE: BUILDING CODE BUILDING CODE: MECHANICAL CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE PLUMBING CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE ELECTRICAL CODE: 2020 NATIONAL ELECTRIC CODE ICC/ANSI 117.1-2009 AMERICAN NATIONAL STANDARD ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES ACCESSIBILITY CODE: CONSTRUCTION: OCCUPANCY: BUSINESS SHEET INDEX

BD-1 OF 1

F-1 OF 2

F-2 OF 2

P-1 OF 3

P-2 OF 3

M-1 OF 2

M-2 OF 2

E-1 OF 4

E-2 OF 4

E-3 OF 4

E-4 OF 4

APPENDIX B

FLOOR PLAN

FOUNDATION PLAN

PLUMBING SUPPLY PLAN

MECHANICAL HVAC PLAN

ELECTRICAL LIGHTING PLAN ELECTRICAL POWER PLAN

ELECTRICAL RISER DIAGRAM

PLUMBING WASTE & VENT PIPING PLAN P-3 OF 3 PLUMBING WASET & VENT RISER DIAGRAMS/NOTES

MECHANICAL SCHEDULES & DETAILS

ELECTRICAL PANEL SCHEDULES & NOTES

REVISIONS NO.

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DATE 12-19-22 DRAWN BY BAM JOB NO. 22-60

SHEET NO.

EXIT REQUIREMENTS: NUMBER AND ARRANGEMENTS OF EXITS

HOMDEN AND ANNAMOUNTAINS OF EXITO										
FLOOR, ROOM OR SPACE DESIGNATION	MINI NO. OF	MUM ² EXITS	TRAVEL DIS	TANCE	ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1016-1021)					
SI AGE BESIGNATION	REQ'D.	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS				
BUSINESS (TENANT 1)	- 2	2	200'	63'-10"	35'-8"	69'-0"				
BUSINESS (TENANT 2)	2	2	200'	46'-2"	35'-8"	69'-0"				
BUSINESS (TENANT 3)	2	2	200'	46'-0"	35'-8"	69'-0"				
BUSINESS (TENANT 4)	2	2	200'	59'-1"	35'-8"	69'-0"				

1. CORRIDOR DEAD ENDS (SECTION 1020.4)

2. BUILDINGS WITH SINGLE EXITS (TABLE 1006.3.2(2)), SPACES WITH ONE MEANS OF EGRESS (TABLE 1006.2.1) 3. COMMON PATH OF TRAVEL (SECTION 1029.8)

	÷		EXIT	WIDTH			•		
USE GROUP OR SPACE DESCRIPTION	(a)	(b)		(c))		EXIT WID		
SI ACE DESCRIPTION	AREA ¹ SQ. FT.	AREA 1 PER OCCUPANT (TABLE	CALCULATED OCCUPANT LOAD	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		REQUIRE (SECTION (a/b		ACTUAL SHOW PLA	N ON
ŕ		1004.1.2)	(a/b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
BUSINESS (TENANT 1)	1,750	100 GROSS	18	N/A	.2	N/A	3.6"	N/A	70"
BUSINESS (TENANT 2)	1,750	100 GROSS	18	N/A	.2	N/A	3.6"	N/A	70"
BUSINESS (TENANT 3)	1,750	100 GROSS	18	N/A	.2	N/A	3.6"	N/A	70"
	·	•	·	1		4 4	1		1

1. SEE TABLE 1004.1.2 TO DETERMINE WHETHER NET OR GROSS AREA IS APPLICABLE

- SEE DEFINITION "AREA, GROSS" AND "AREA, NET" (SECTION 1002, DEFINED IN CHAPTER 2)
- 2. MINIMUM STAIRWAY WIDTH (SECTION 1011.2); MIN. CORRIDOR WIDTH (SECTION 1020.2); MIN. DOOR WIDTH (SECTION 1010.1.1)
- 3. MINIMUM WIDTH OF EXIT PASSAGEWAY (SECTION 1024)
- 4. SEE SECTION 1005.6 FOR CONVERGING EXITS.
- 5. THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF

| BUSINESS (TENANT 4) | 1,750 | 100 GROSS | 18 | N/A | .2 | N/A | 3.6" | N/A | 70"

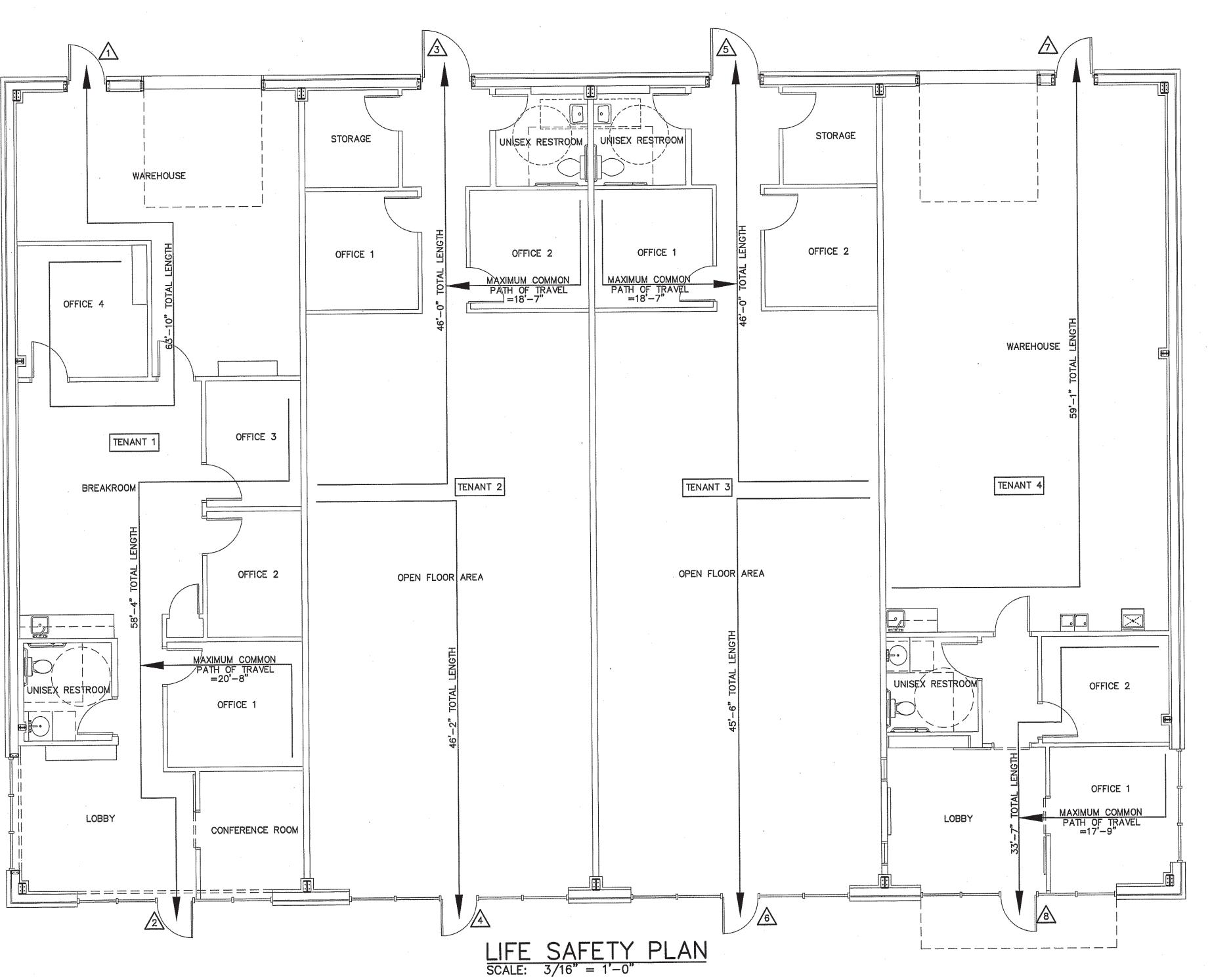
- THE TOTAL REQUIRED (SECTION 1005.5)
- 6. ASSEMBLY OCCUPANCIES (SECTION 1029)

LIFE SAFETY PLAN REQUIREMENTS:

- FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) SEE NOTE 1
- ASSUMED AND REAL PROPERTY LINE LOCATIONS SEE NOTE 2
- EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) SEE NOTE 3
- OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
- OCCUPANT LOADS FOR EACH AREA
- EXIT ACCESS TRAVEL DISTANCES (1017)
- COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- ☑ DEAD END LENGTHS (1020.4) SEE NOTE 4
- ☑ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
- MACTUAL 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. SEE NOTE 5
- ☑ LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10) SEE NOTE 6
- LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1008.1.9.7) SEE NOTE 7
- ☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8) SEE NOTE 7
- LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES SEE NOTE 7
- ☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1029) SEE NOTE 7 THE SQUARE FOOTAGE OF EACH FIRE AREA (902) - SEE NOTE 8
- ☑ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.5) SEE NOTE 9
- NOTE 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. UNLIMITED (ALL 30' OR GREATER)
- 4. NO DEAD ENDS; 20' ALLOWED.
- 5. NO RATING REQUIRED THIS STRUCTURE.
- 6. PANIC HARDWARE NOT REQUIRED. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS
- 8. FIRE AREAS DO NOT EXCEED CODE ALLOWANCE
- 9. BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS



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

11 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

 $\sqrt{2}$ 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

 $\sqrt{3}$ 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PERSON CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

4 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

 $\sqrt{5}$ 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PERSON CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

6 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

 $\sqrt{7}$ 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PERSON CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

8 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 9 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

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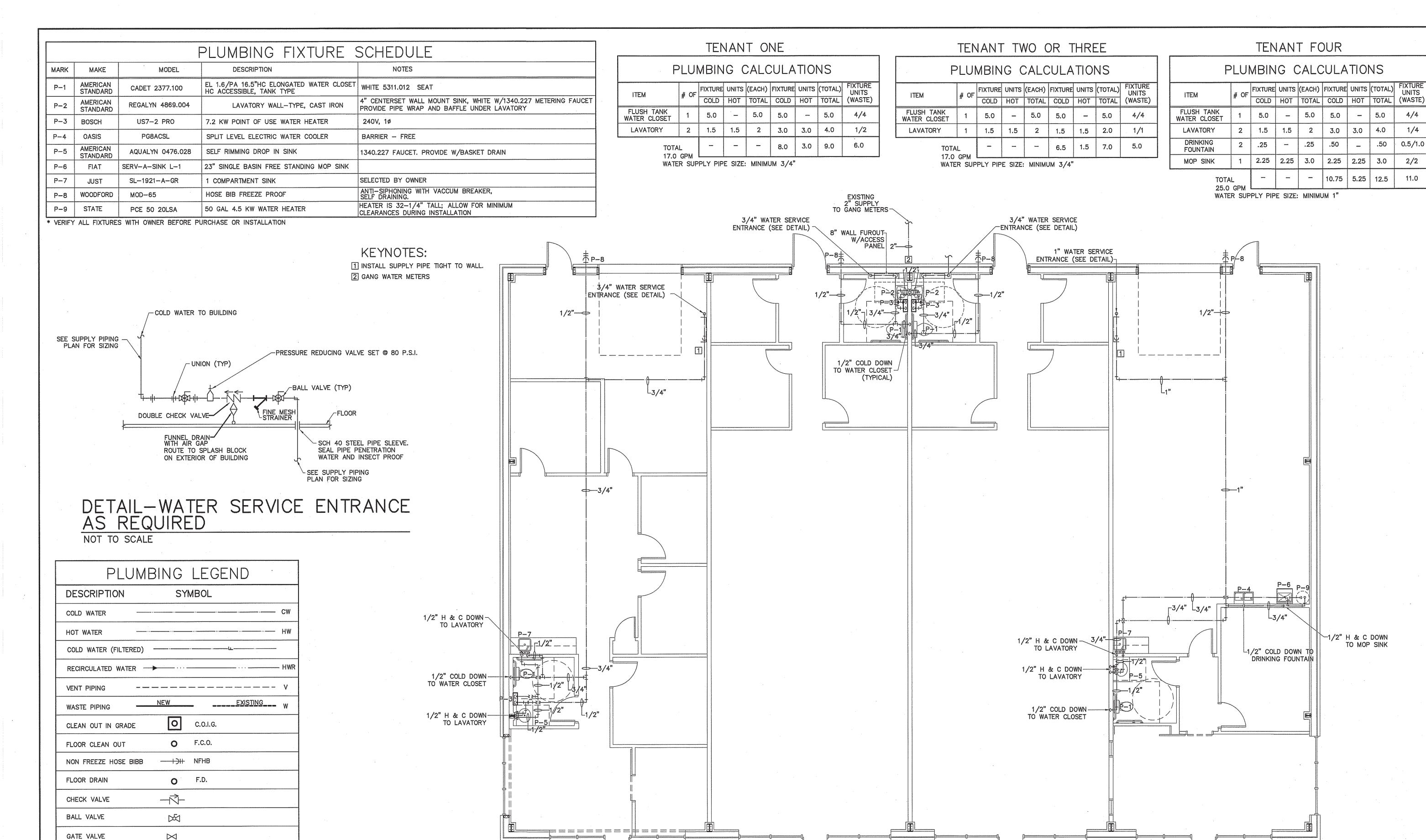
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DATE 12-19-22 DRAWN BY BAM JOB NO. 22-60

SHEET NO.

THIS FACILITY HAS NO STORAGE ABOVE 12' A.F.F. AND IS NOT INTENDED FOR USE AS VEHICLE STORAGE, PARKING GARAGE OR OR REPAIR GARAGE.

AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.



SHUT-OFF VALVE

DOUBLE CHECK VALVE

FIXTURE DESIGNATION

POINT OF CONNECTION NEW TO EXISTING

CHANGE IN PIPE SIZE

MOUNTING HEIGHT

FLOOR SINK

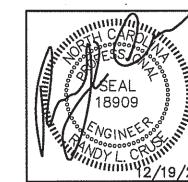
M

P--

SHOCK ABSORBER
W/BALL VALVE SHUT-OFF SA RECOMMENDATIONS

PLUMBING WASTE & VENT PIPING PLAN SCALE: 3/16" = 1'-0"

PLUMBING CONNECTION SCHEDULE									
FIXTURE	C.W.	H.W.	WASTE	VENT					
FLUSH TANK WATER CLOSET	1/2"	—	3"	2"					
LAVATORY	1/2"	1/2"	2"	1 1/2"					
ELEC. WATER COOLER	1/2"	_	2"	1 1/2"					
FLOOR DRAIN			3"	2"					
MOP SINK	1/2"	1/2"	3"	2"					



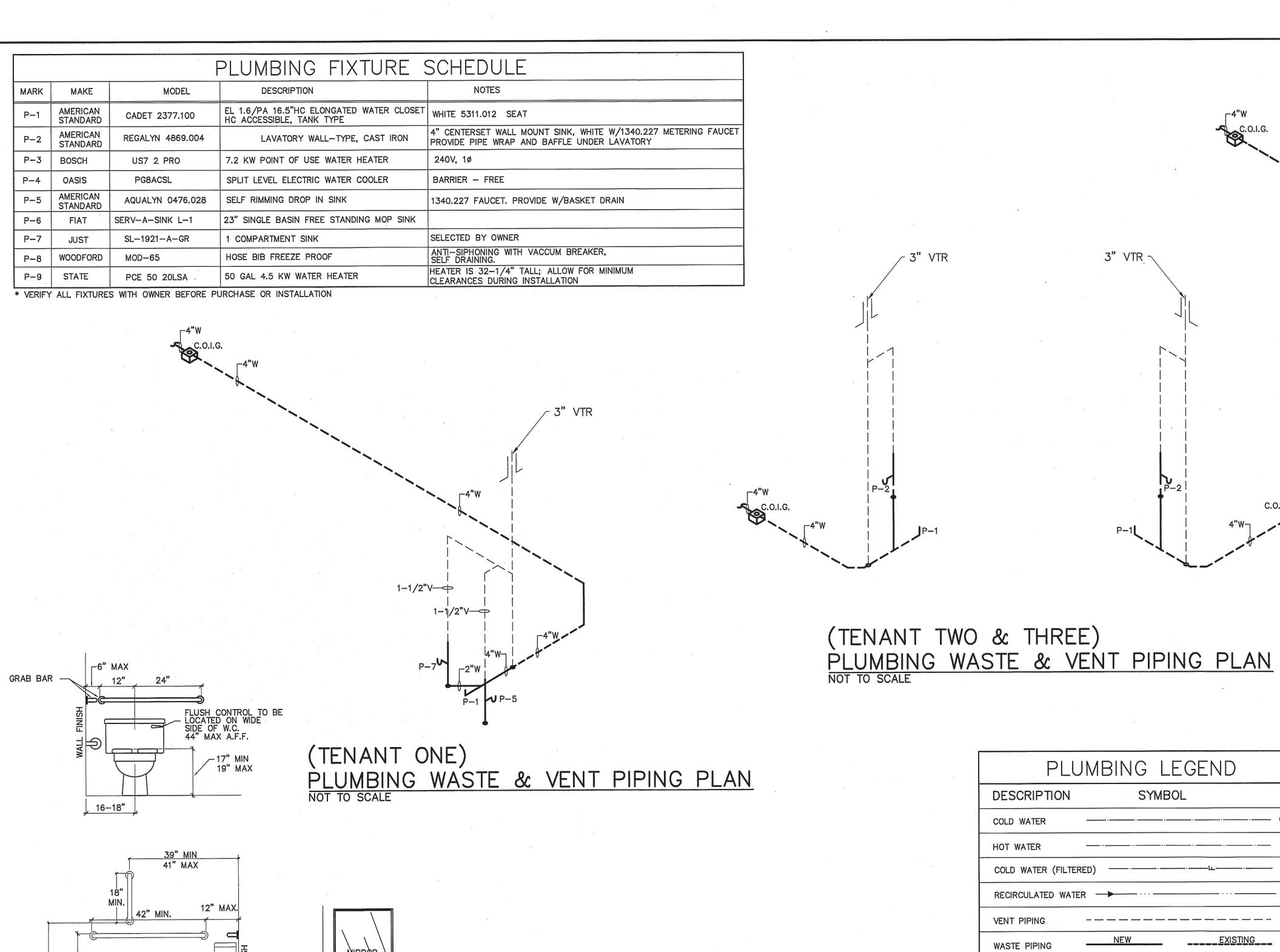
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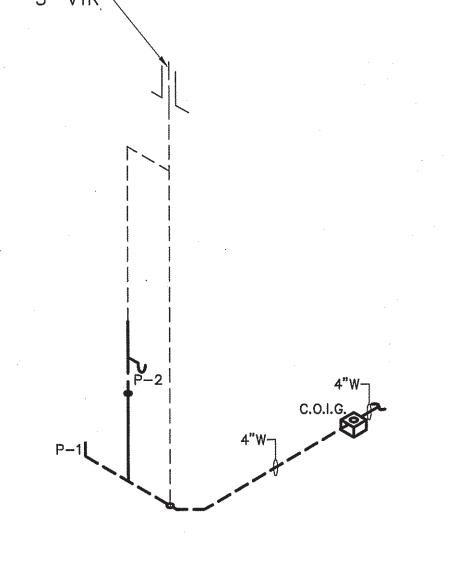
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DATE 12-19-22 DRAWN BY BAM JOB NO. 22-60 SHEET NO.

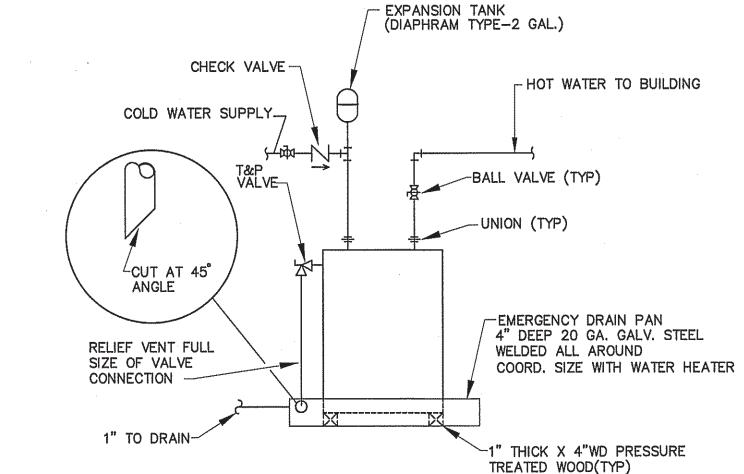
PLUMBING FIXTURE SCHEDULE	TENANT ONE	TENANT TWO OR THREE	TENANT FOUR	AND PESSON OF THE
MARK MAKE MODEL DESCRIPTION NOTES	PLUMBING CALCULATIONS	PLUMBING CALCULATIONS	PLUMBING CALCULATIONS	SEAL 18909
P-1 AMERICAN STANDARD CADET 2377.100 EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET WHITE 5311.012 SEAT HC ACCESSIBLE, TANK TYPE 4" CENTERSET WALL MOUNT SINK, WHITE W/1340.227 METERING FAUCET	ITEM # OF FIXTURE UNITS (EACH) FIXTURE UNITS (TOTAL) FIXTURE UNITS (UNITS UNITS (WASTE)	ITEM # OF FIXTURE UNITS (EACH) FIXTURE UNITS (TOTAL) FIXTURE UNITS (UNITS (UNITS (WASTE)	ITEM # OF FIXTURE UNITS (EACH) FIXTURE UNITS (TOTAL) FIXTURE UNITS (UNITS UNITS (WASTE)	NGINEE CONTINUE CONTI
STANDARD REGALTN 4869.004 LAVATORY WALL-TIPE, CAST IKON PROVIDE PIPE WRAP AND BAFFLE UNDER LAVATORY	FLUSH TANK WATER CLOSET 1 5.0 - 5.0 5.0 - 5.0 4/4	FLUSH TANK WATER CLOSET 1 5.0 - 5.0 5.0 - 5.0 4/4	FLUSH TANK WATER CLOSET 1 5.0 - 5.0 5.0 - 5.0 4/4	2/19/2
P-3 BOSCH US7-2 PRO 7.2 KW POINT OF USE WATER HEATER 240V, 10 P-4 OASIS PG8ACSL SPLIT LEVEL ELECTRIC WATER COOLER BARRIER - FREE	LAVATORY 2 1.5 1.5 2 3.0 3.0 4.0 1/2	LAVATORY 1 1.5 1.5 2 1.5 1.5 2.0 1/1	LAVATORY 2 1.5 1.5 2 3.0 3.0 4.0 1/4	
P-5 AMERICAN STANDARD AQUALYN 0476.028 SELF RIMMING DROP IN SINK 1340.227 FAUCET. PROVIDE W/BASKET DRAIN	TOTAL 8.0 3.0 9.0 6.0 17.0 GPM WATER SUPPLY PIPE SIZE: MINIMUM 3/4"	TOTAL 6.5 1.5 7.0 5.0 17.0 GPM WATER SUPPLY PIPE SIZE: MINIMUM 3/4"	DRINKING FOUNTAIN 2 .25 - .25 .50 _ .50 0.5/1.0 MOP SINK 1 2.25 2.25 3.0 2.25 2.25 3.0 2/2	
P-6 FIAT SERV-A-SINK L-1 23" SINGLE BASIN FREE STANDING MOP SINK P-7 JUST SL-1921-A-GR 1 COMPARTMENT SINK SELECTED BY OWNER	WATER SOFFLY FIFE SIZE. WINNIOW SYT	WATER SOFFLY FIFE SIZE: MINIMOM 5/4	TOTAL 10.75 5.25 12.5 11.0	
P-8 WOODFORD MOD-65 HOSE BIB FREEZE PROOF ANTI-SIPHONING WITH VACCUM BREAKER, SELF DRAINING.			25.0 GPM WATER SUPPLY PIPE SIZE: MINIMUM 1"	
P-9 STATE PCE 50 20LSA 50 GAL 4.5 KW WATER HEATER HEATER HEATER S 32-1/4" TALL; ALLOW FOR MINIMUM CLEARANCES DURING INSTALLATION * VERIFY ALL FIXTURES WITH OWNER BEFORE PURCHASE OR INSTALLATION	NOTE:		PLUMBING CONNECTION SCHEDULE	
	DASHED LINES REPRESENT EXISTING WASTE PIPE AS INSTALLED IN SHELL BUILDING.		FIXTURE C.W. H.W. WASTE VENT	
CAST IRON OR PVC		TIE TO INTO EXISTING 4" WASTE (FIELD VERIFY LOCATION)—	FLUSH TANK WATER CLOSET 1/2" - 3" 2"	
CLEANOUT WITH COVER FOR DUTY REQUIRED. —		(FIELD VERIFY LOCATION)—	LAVATORY 1/2" 1/2", 2" 1 1/2"	
GRADE OR PAVING - /-1'-6"x 1'-6"x 6" THICK CONCRETE PAD			ELEC. WATER COOLER 1/2" — 2" 1 1/2" FLOOR DRAIN 3" 2"	
4"W C.O.I.G.	4"W————————————————————————————————————	4"W C.O.I.G.	MOP SINK 1/2" 1/2" 3" 2"	
CAST IRON OR PVC				
CAST IRON OR PVC EXTENSION SAME SIZE AS SEWER UP TO 6" DIA.	1-1/2"V P=2 P P=2 4"W-	4*W-4		
CAST IRON OR PVC LONG SWEEP 1/4 BEND OR CAST IRON COMB. "Y" 1/8 BEND. (USE REDUCING TYPE WHERE	2"W 4"W-			
(USE REDUCING TYPE WHERE REQUIRED)				
	3" VTR-1-1/2"V	-3" VTR		
SEWER MATERIAL AND SIZE AS SPECIFIED				
DETAIL-CLEAN OUT AT GRADE				
NOT TO SCALE				
PLUMBING LEGEND				REVISIONS NO.
DESCRIPTION SYMBOL -4"W		↓ ↓ ↓ ↓ ↓		·
COLD WATER ————————————————————————————————————				
HOT WATER ————————————————————————————————————				B St.
COLD WATER (FILTERED) HWR				Edgerto
VENT PIPINGV		-4"W P-4	P-6	414 B.
WASTE PIPING NEW EXISTING W			1 CUT AND PATCH CONCRETE AS REQUIRED FOR NEW SECTION OF 4" WASTE PIPE.	
CLEAN OUT IN GRADE C.O.I.G.		1-1/2"V	SECTION OF 4" WASTE PIPE.	P.
FLOOR CLEAN OUT O F.C.O.		1-1/2 V		es,
NON FREEZE HOSE BIBB — 1-)11 NFHB		1-1/2"V P-5		iato
FLOOR DRAIN O F.D.		3" VTR		300
CHECK VALVE P-5		P-1		se nd Ass
BALL VALVE				Land
GATE VALVE □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				
DOUBLE CHECK VALVE				THESE DOCUMENTS ARE INSTITUTED OF SERVICE AND AS THESE DRAWINGS DESIGNS
FIXTURE DESIGNATION P				THESE DRAWINGS, DESIGNS, A DESIGN CONCEPTS PRESENTE REMAIN THE PROPERTY OF T ENGINEER. PUBLISH OR DUPI
MOUNTING HEIGHT MH				ENGINEER. PUBLISH OR DUPL THE DRAWINGS OR DESIGNS ONLY WITH THE WRITTEN PERMISSION OF THE ENGINEER
POINT OF CONNECTION NEW TO EXISTING				© COPY RIGHT
FLOOR SINK SHOOK ARSORRER SA SIZE PER MANUE				DATE 12-19- DRAWN BY BAM
SHOCK ABSORBER W/BALL VALVE SHUT-OFF SA SIZE PER MANUF. RECOMMENDATIONS	PILIMRING WASTE & VENT	PIPING PLAN		JOB NO. 22-60
CHANGE IN PIPE SIZE	PLUMBING WASTE & VENT	1 11 11 V V I has / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		SHEET NO.

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(TENANT FOUR) PLUMBING WASTE & VENT PIPING PLAN NOT TO SCALE



DETAIL-WATER HEATER NOT TO SCALE

39" MIN 41" MAX SINK 36" MAX. — 6" MAX BOWL DEPTH -INSULATION OR BAFFLE

6"MAX.

SCALE: 1/2" = 1'-0"

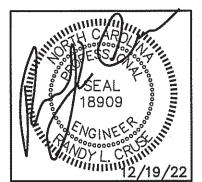
KNEE AND TOE SPACE

RESTROOM ACCESSIBILITY DETAILS

PLUMBING LEGEND DESCRIPTION SYMBOL COLD WATER HOT WATER COLD WATER (FILTERED) WASTE PIPING C.O.I.G. CLEAN OUT IN GRADE O F.C.O. FLOOR CLEAN OUT ──+>I+ NFHB NON FREEZE HOSE BIBB O F.D. FLOOR DRAIN 一个 CHECK VALVE \bowtie BALL VALVE \bowtie GATE VALVE M SHUT-OFF VALVE -W-DOUBLE CHECK VALVE FIXTURE DESIGNATION P--МН MOUNTING HEIGHT POINT OF CONNECTION 8 NEW TO EXISTING FLOOR SINK SHOCK ABSORBER
W/BALL VALVE SHUT-OFF SA SIZE PER MANUF.
RECOMMENDATIONS CHANGE IN PIPE SIZE

GENERAL PLUMBING NOTES

- 1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
- 2. CONTRACTORS SHALL COORDINATE PIPING WITH ALL OTHER TRADES.
- 3. CONTRACTOR SHALL REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS FOR DIMENSIONS.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
- 5. CONTRACTOR SHALL FURNISH AND INSTALL ESCUTCHEONS AND COVER PLATES AT ALL FINISHED WALLS, CEILINGS AND FLOOR OPENINGS.
- 6. PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH STATE AND LOCAL CODE. (REFER TO SPECIFICATIONS.)
- 7. ALL PIPING SHALL BE TESTED FOR LEAKS. IF ANY LEAKS ARE DETECTED THE PIPING SHALL BE REPAIRED, RESOLDERED OR REPLACED AND RETESTED.
- 8. ALL SOLDER SHALL BE OF THE LEAD FREE TYPE.
- 9. WATER HEATER SHALL BE SUPPLIED WITH FACTORY INSTALLED T&P VALVES AND SHALL HAVE UNIONS AND ISOLATION VALVES.
- 10. DOMESTIC WATER SUPPLY PIPING SHALL BE COPPER OR CPVC. PEX IS ALLOWED WHERE PERMITTED BY CODE.
- 11. WASTE AND VENT PIPING SHALL BE SCH. 40 PVC OR HEAVY DUTY CAST IRON UNDER TRAFFIC AREAS.
- 12. INSTALL THERMOSTATICALLY CONTROLLED MIXING VALVES AS NEEDED TO ENSURE HOT WATER TEMPERATURE TO ALL HAND WASHING LOCATIONS DOES NOT EXCEED 110°F.
- 13. ALL FLOOR DRAINS & HUB DRAINS SHALL BE PROVIDED WITH TRAP PRIMER EXCEPT FLOOR DRAINS IN TOILETS WHERE HOSE BIBS ARE PROVIDED.
- 14. HOT WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBROUS GLASS INSULATION. COLD WATER PIPING SHALL BE INSULATED WITH 1/2" FIBROUS GLASS INSULATION. VAPOR BARRIER SHALL BE APPLIED TO EACH.

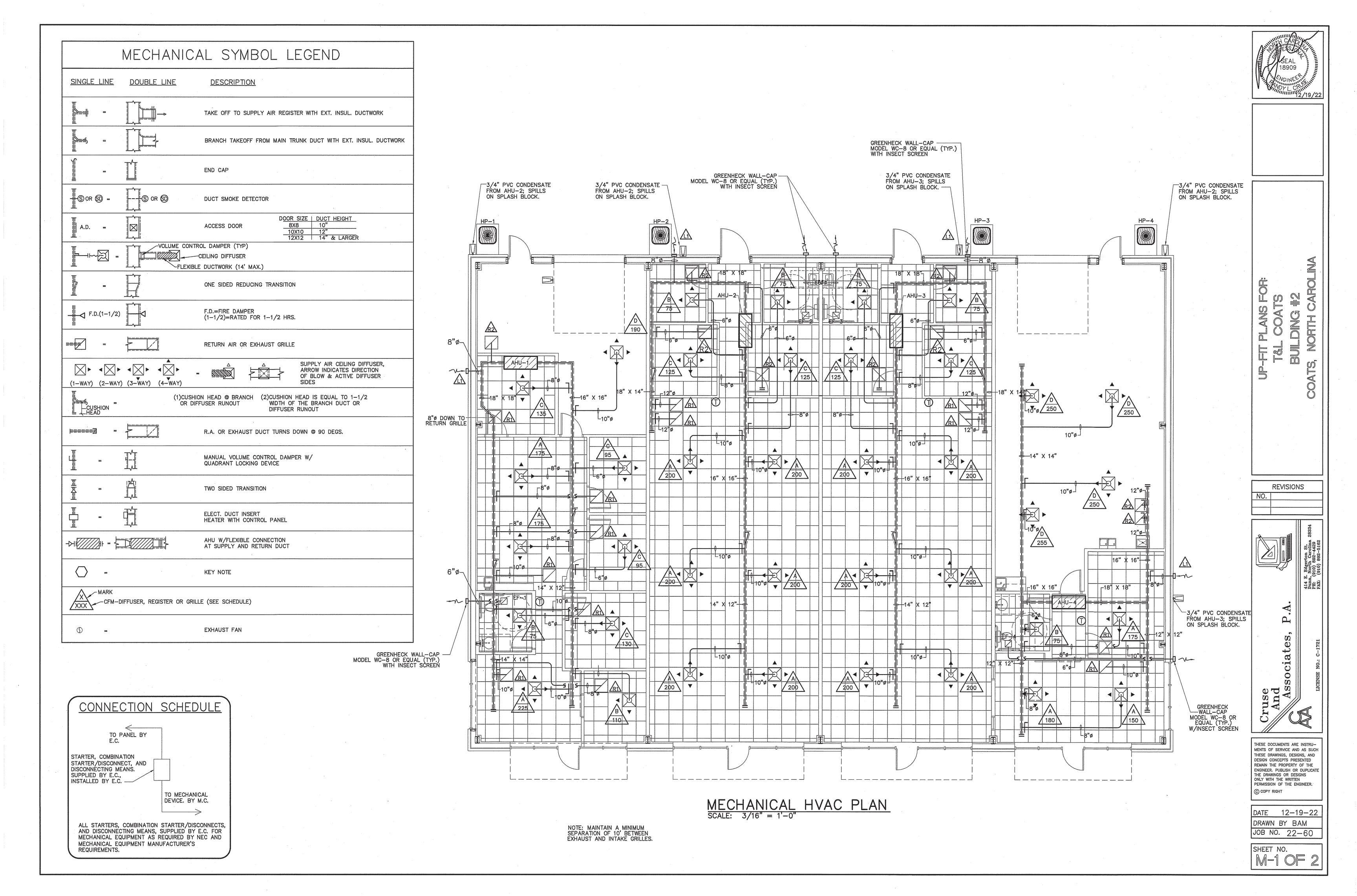


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DATE 12-19-22 DRAWN BY BAM JOB NO. 22-60

SHEET NO. P-3 OF



,	EXHAUST FAN SCHEDULE														
MARK	MAKE	MODEL	TYPE	CFM EXTERNAL S.P. WATTS ELECTRICAL VOLT PH HZ				HZ	NOTES						
EF-1	GREENHECK SP-B90		CEILING FAN 75		.25	49.7	9.7 115 1		60	WALL CAP, INSECT SCREEN, W/BACK DRAFT DAMPER					

	LOUVER SCHEDULE														
MARK	DESCRIPTION CFM APPROXIMATE OUTSIDE FREE AREA(SF) VELOCITY OR S.P. DROP MATERIAL FINISH MANUFACTURER MODEL NO. NOTES														
L1	WALL LOUVER	177	12"W X 12"H	0.5	500 FPM	ALUMINUM	COLOR ANODIZED MATCH METAL PANELS*	HART & COOLEY	1530ZF						

	REGISTER, GRILLE, & DIFFUSER SCHEDULE*													
MARK	DESCRIPTION	MAX. NC	NECK	BORDER TYPE	MATERIAL	FINISH	MANUFACTURER	MODEL NUMBER	ACCESSORIES / NOTES					
Α	DIFFUSER-4-WAY	30	9"X9"	LAY-IN	STEEL	WHITE	TITUS	TDC 9X9 3 26 2	SQ-TO-RND					
В	DIFFUSER-2-WAY	30	6"X6"	LAY-IN STEEL		WHITE	TITUS	TDC 6X6 3 26 2	SQ-TO-RND					
С	DIFFUSER-4-WAY	30	6"X6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 4	SQ-TO-RND					
D	DIFFUSER-4-WAY	30	9"X9"	SURFACE	STEEL	WHITE	TITUS	TDC 6X6 3 26 4	SQ-TO-RND					
R1	RETURN GRILLE	30	10"X10"	LAY-IN	STEEL	WHITE	TITUS	23RL 10X10 3 26	SQ-TO-RND					
R2	RETURN GRILLE	30	10"X10"	SURFACE	STEEL	WHITE	птиѕ	23RL 10X10 3 26	SQ-TO-RND					

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

MECHANICAL NOTES (GENERAL

- 1. 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 14' 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-8.0 (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.
- 8. 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
- 11. 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.

	AIR HANDLER UNIT											SPLI	IT SY:	STEM HEA	AT PUM	IP UNITS											
AHU NO.	MANUFACTURER	R MODEL	VOLTAGE	VOLTAGE	E.S.P.	P. OUTSIDE AIR (CFM)	CFM	UNIT FLA			HTR KW	COOLING CAPACITY (MBH)			HEATING CAPACITY (MBH)		MIN. CIRC. AMPACITY	M.O.C.P.	MARK	MARK MANUF. MODEL		VOLTAGE # COMP.	# COMP.	MIN. CIRC. AMPACITY M.O.C.P.	M.O.C.P.	UNIT FLA.	ACCESSORIES
AHU-1,2,3,4	RHEEM	RH1T-4821STAN	240/1ø/60	.46	177	1600	40.0	GAS 3/8	7/8 15.0	9.6	47.0	SENS. 34.1	HIGH 44.5	28.8	9.0	56	60	HP-1,2,3,4	RHEEM RP1548	AJ1	240/1ø/60	1	26	40	21.3	EXCLUDE 8,18	

NOTE:

VERIFY THERMOSTAT LOCATION WITH OWNER

PRIOR TO INSTALLING. FILTER ALL OUTSIDE AIR.

NOTE:

VERIFY THERMOSTAT LOCATION WITH OWNER

PRIOR TO INSTALLING. FILTER ALL OUTSIDE AIR.

(TYPICAL OF EACH TENANT) METHOD OF COMPLIANCE:

THERMAL ZONE 4A - HARNETT COUNTY, NC

PRESCRIPTIVE ☒ ENERGY COST BUDGET ☐

EXTERIOR DESIGN CONDITIONS

WINTER DRY BULB 16 DEG. F.

SUMMER DRY BULB 92 DEG. F. INTERIOR DESIGN CONDITIONS

WINTER DRY BULB 70 DEG. F.

SUMMER DRY BULB 74 DEG. F.

RELATIVE HUMIDITY 54%

BUILDING HEATING LOAD 31.6 MBH

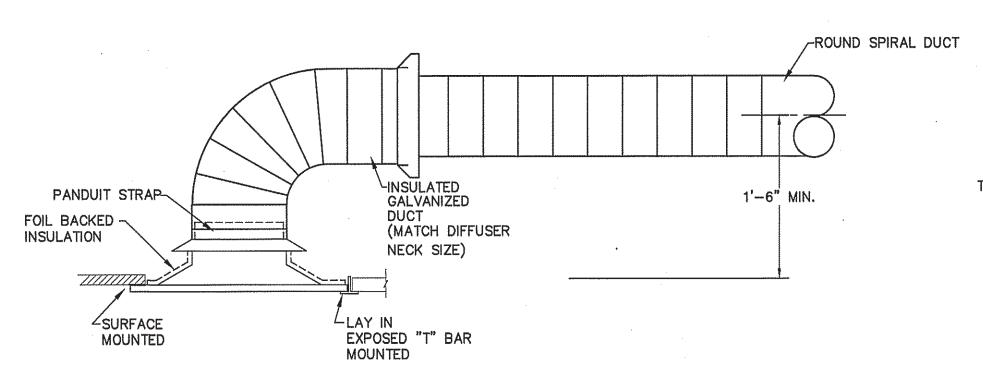
BUILDING COOLING LOAD 3.8 TONS

MECHANICAL SPACE CONDITIONING SYSTEM

DESCRIPTION OF UNIT - HEAT PUMP HEATING EFFICIENCY - 9.0 HSPF

CHILLER—NOT APPLICABLE IN THIS PROJECT

LIST EQUIPMENT EFFICIENCIES



DETAIL-CEILING DIFFUSER CONNECTION NOT TO SCALE

ACCESSORIES

4 ISOLATION RELAY

5 TXV

TIME-DELAY RELAY 2 CYCLE PROTECTOR

6 HIGH PRESSURE SWITCH

3 EVAPORATOR FREEZE PROTECTOR

- 7 LIQUID SOLENOID VALVE 8 LOW-AMBIENT CONTROLLER
- 9 FILTER DRIER (LIQUID LINE) 10 OUTDOOR T'STAT TO LOCK OUT AUX. HT. (SET @ 40° F ADJ)
- 12 CRANKCASE HEATER
- 11 LOW PRESSURE CONTROL
- 15 THERMOSTAT (SEE NOTE) 16 SUPPORT FEET
- 17 COIL GUARDS 18 HUMIDISTAT

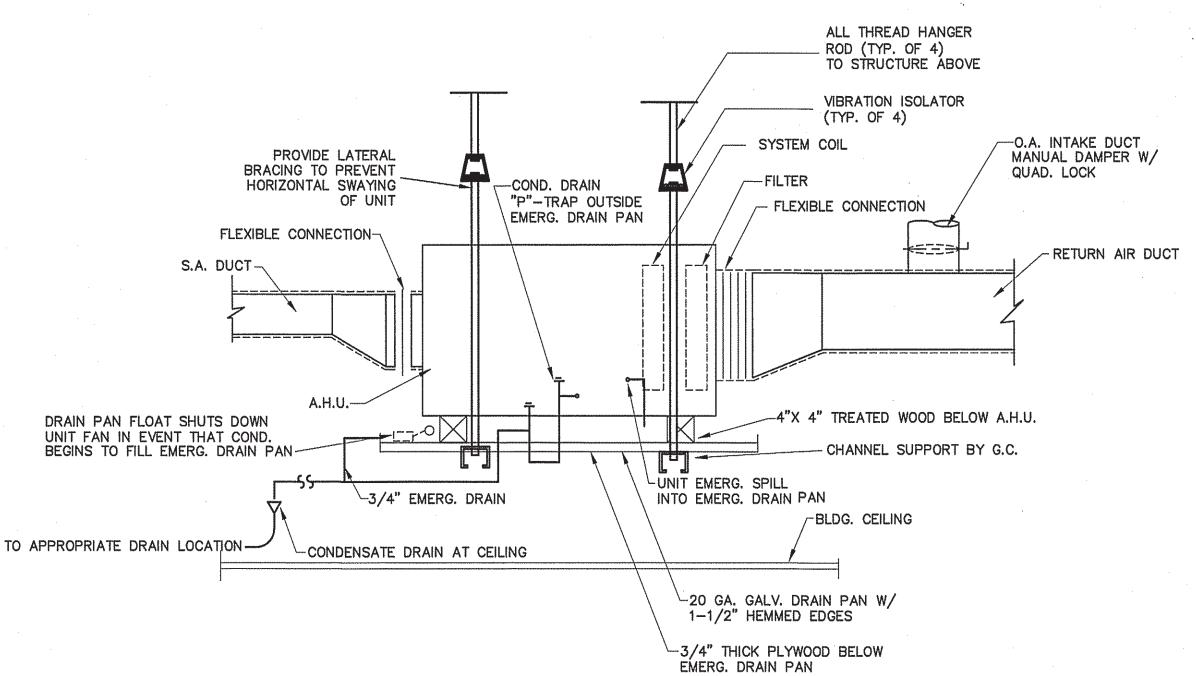
13 DISCHARGE LINE MUFFLER

14 SUCTION AND LIQUID LINE

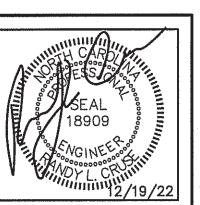
SHUT OFF VALVES

COOLING CAPACITY @ 80 DEG. F DB/67 DEG WB AIR ENTERING INDOOR UNIT & 95 DEG. F DB AIR ENTERING OUTDOOR UNIT HEATING CAPACITY: HIGH TEMP = 70 DEG F DB INDOOR EAT & 47 DEG F DB/43 DEG F WB AIR ENTERING OUTDOOR UNIT

T-STAT: THE NUMBER OF STAGES OF HEATING/COOLING SHALL MATCH THE NUMBER OF STAGES OF HEAT AVAILABLE IN THE HPIU OR THE NUMBER OF STAGES OF COOLING AVAILABLE IN THE HPOU. PROVIDE WITH T-STAT: 7 DAY PROGRAMMABLE, DIGITAL.



TYPICAL DETAIL AT AIR HANDLING UNITS NOT TO SCALE



REVISIONS

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DATE 12-19-22 DRAWN BY BAM JOB NO. 22-60

PER MANUF.

PLAN VIEW
NOT TO SCALE

B-LINE NO. "BVT" VIBRO-

HEAT PUMP

CONC. PAD-

FIN. GRADE-

OUTDOOR UNIT-

6X6X #10 REINF. WIRE-

CLAMPS WITH ZINC FINISH.-

BLDG. WALL-

NOT TO SCALE

DETAIL-TYPICAL HEAT PUMP

SECTION NOT TO SCALE

-BEE-LINE EPOXY COATED PIPE

SUPPORT SYSTEM. ANCHOR TO

-HEAT PUMP OUTDOOR UNIT

- CEILING

-2" SCH. 40 PVC REFRIG.

-EXPANSION JOINT

MATERIAL

-2X4 TREATED WOOD

ANCHORED TO CONC.

PIPING CONDUIT

FIN. FLOOR

-B-LINE "B-22" CHANNEL WITH PIPE. GALVANIZED ZINC FINISH

∠FILL AROUND REFRIG. PIPING

WITH SILICONE CAULK

CONC. PAD.

CONCRETE PAD

OUTDOOR UNIT

LEAVE A 1/4" SPACE AT CONDUIT FACE & FILL WITH CLOSED CELL NEOPRENE FOAM INSULATION TO PROVIDE BACKING FOR SILICONE CAULKING

> COOLING EFFICIENCY - 15.0 SEER SIZE CATEGORY OF UNIT - <65K BOILER --- NOT APPLICABLE IN THIS PROJECT

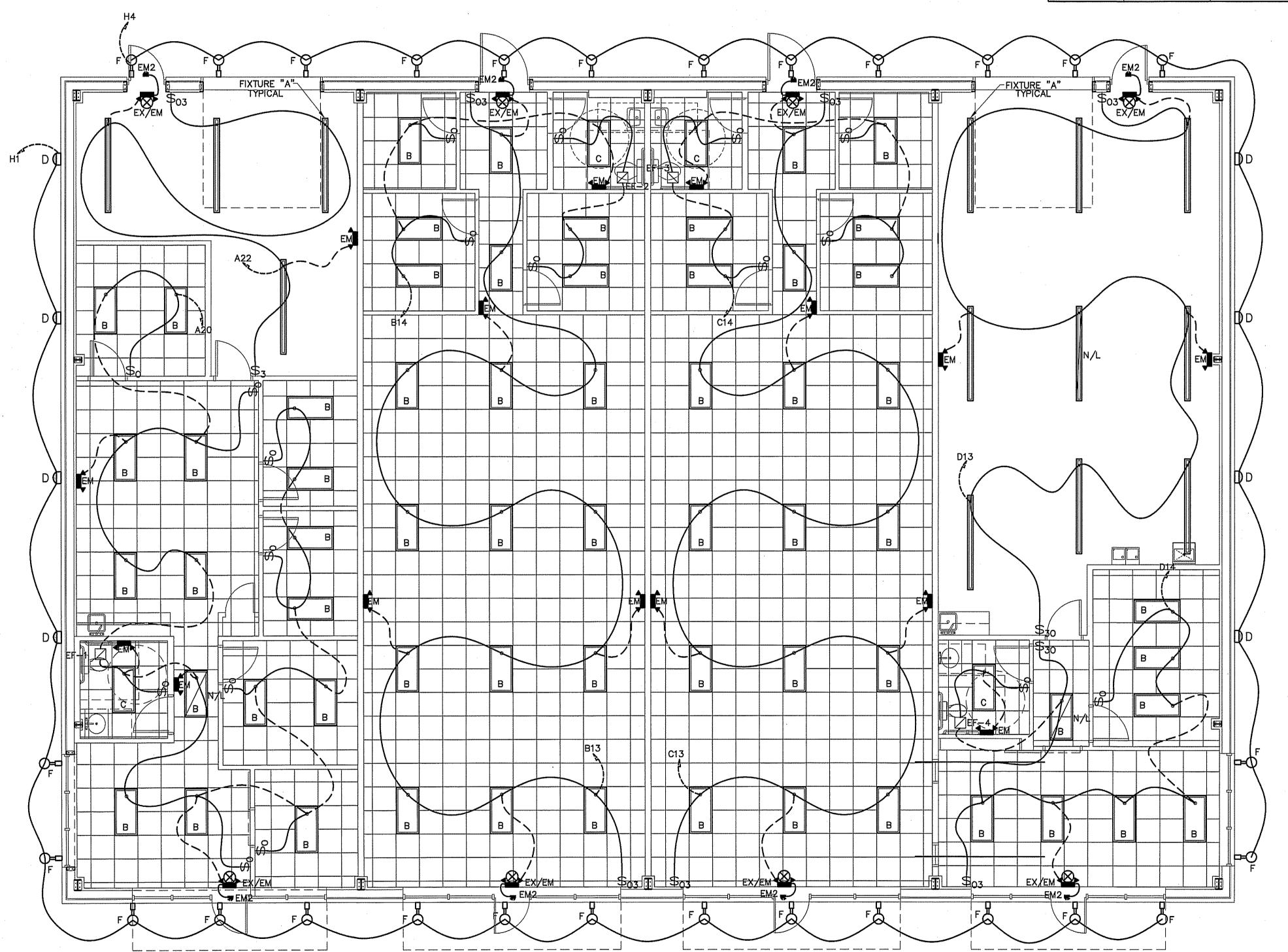
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS WATTA	GE REMARKS
Α	8' LED STRIPLIGHT	LITHONIA	TZ1D L96 14000LM FST MVOLT 40K 80CRI WH	LED	121	INCLUDE HC36 HANGER CH
В	2X4 LED FLAT PANEL LAY-IN	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM	LED	42.0	INCLUDE WSX D DIMMING OCCUPANCY WALL SWITCH
С	2X4 LED FLAT PANEL LAY-IN	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM	LED	32.0	INCLUDE WSX D DIMMING OCCUPANCY WALL SWITCH
D	LED WALLPACK	-		LED	28	SELECTED BY OWNER
F	GOOSENECK EXTERIOR LIGHT			LED	. 52	SELECTED BY OWNER
ЕМ	EMERGENCY LIGHT WITH BATTERY BACKUP	MCPHILBEN	CAXR6L24W6			
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	MCPHILBEN	CXXL3RW			
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	MCPHILBEN	CR2CSWA			

L	IGHTING DA	ATA FOR N.C	. ENERGY C	ODE (TENAN	LIGHTING DATA FOR N.C. ENERGY CODE (TENANT 1)														
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER														
WAREHOUSE	500	1.2	600	484	116														
OFFICE	1,250	1.3	1,625	704	921														
TOTAL	1,750		2,225	1,188	1,037														

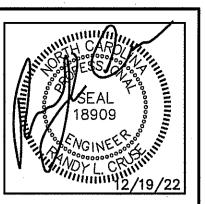
LIGHTING DATA FOR N.C. ENERGY CODE (TENANT 2 & 3)													
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER								
OFFICE (TENANT 2)	1,750	1.3	2,275	830	1,445								
OFFICE (TENANT 3)	1,750	1.3	2,275	830	1,445								
TOTAL	3,500		2,275	1,660	2,890								

L	LIGHTING DATA FOR N.C. ENERGY CODE (TENANT 4)													
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS									
WAREHOUSE	1,200	1.2	1,440	1,089	351									
OFFICE	550	1.3	715	326	389									
TOTAL	1,750		2,155	1,415	740									

ELE	CTRICAL LEGEND
MARK	DESCRIPTION
#	QUAD RECEPTACLE
Ф	DUPLEX RECEPTACLE
	TIMER WITH NO HOLD MECHANISM
Ф	CEILING MOUNTED DUPLEX RECEPTACLE
	FLUORESCENT FIXTURE
~~	SWITCHED BRANCH CIRCUIT
~~	UNSWITCHED BRANCH CIRCUIT
Y	120/208 VOLT CIRCUIT
\$ _M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
8	'EXIT' LIGHT FIXTURE, TYPE 'EX'
IÇ.	BATTERY OPERATED EMERG. LT. (2—HEAD, WALL MTD.)
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
	FUSED DISCONNECT SWITCH
[]	CEILING MOUNTED FUSED DISCONNECT SWITCH
4	TELEPHONE
J	JUNCTION BOX
\$	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
N/L	UNSWITCHED FIXTURE
	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
\$0	
\$0	DUPLEX RECEPTACLE



ELECTRICAL LIGHTING PLAN
SCALE: 3/16" = 1'-0"



T&L COATS
BUILDING #2
COATS, NORTH CAROLINA

REVISIONS

And Associates, P.A.

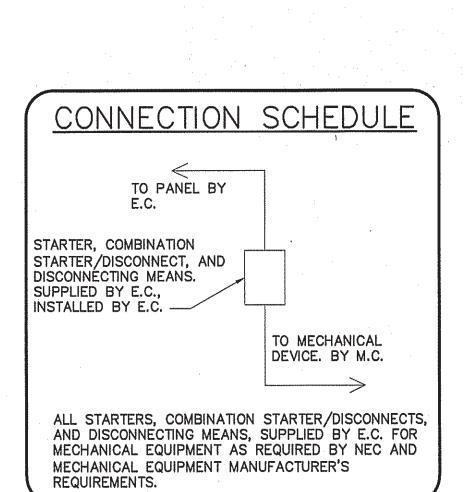
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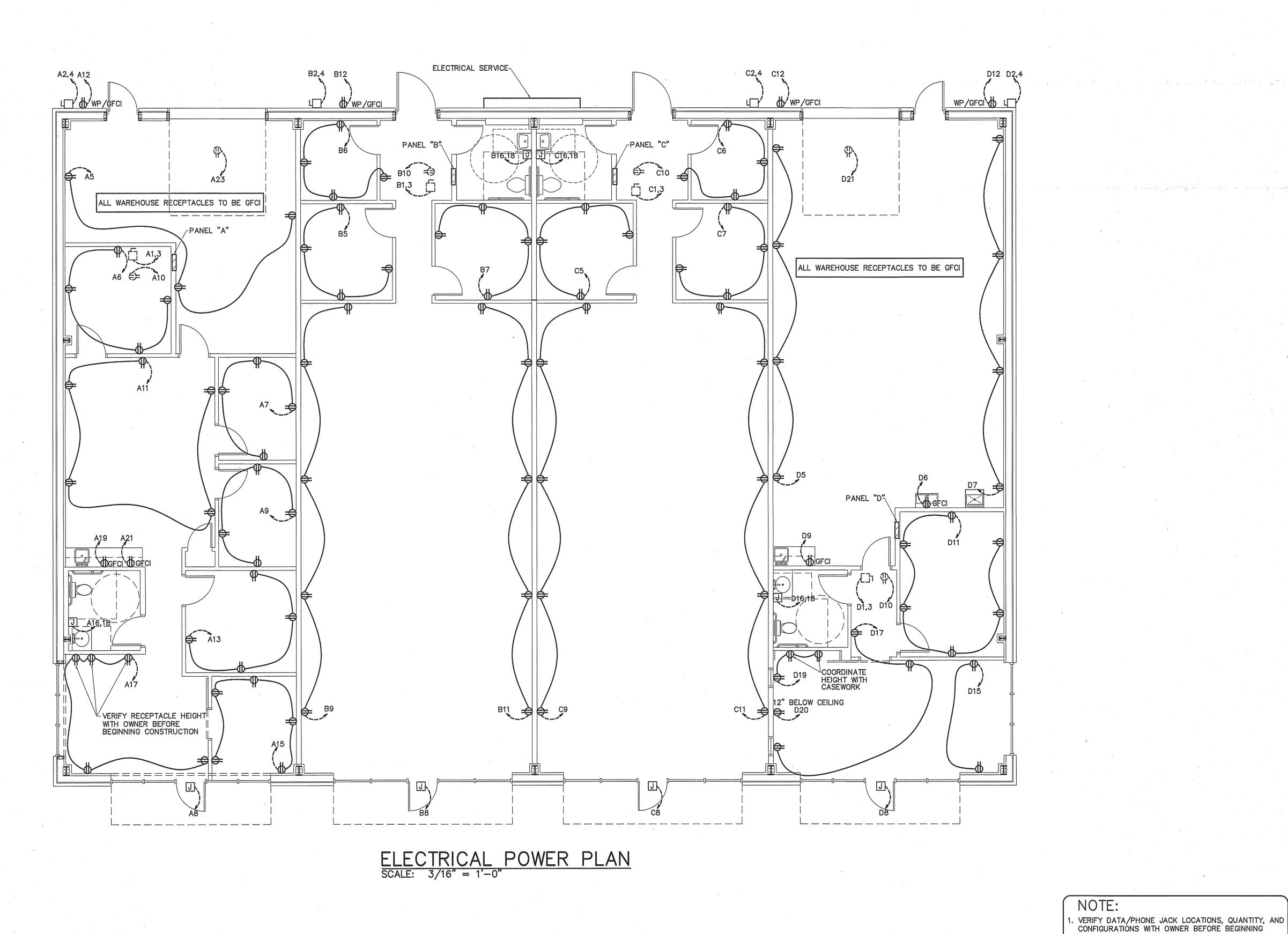
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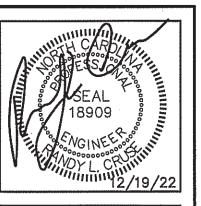
DATE 12-19-22
DRAWN BY BAM
JOB NO. 22-60

SHEET NO. E-1 OF 4

ELE	CTRICAL LEGEND
MARK	DESCRIPTION
#	QUAD RECEPTACLE
Ф	DUPLEX RECEPTACLE
T	TIMER WITH NO HOLD MECHANISM
Ф	CEILING MOUNTED DUPLEX RECEPTACLE
	FLUORESCENT FIXTURE
~~	SWITCHED BRANCH CIRCUIT
۲ - ۲	UNSWITCHED BRANCH CIRCUIT
Y	120/208 VOLT CIRCUIT
\$ _M	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER
⊗	'EXIT' LIGHT FIXTURE, TYPE 'EX'
¢	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)
\$3(4)	MOTION DETECTING 3-WAY SWITCH (4-WAY SWITCH) WITH TIMER
	FUSED DISCONNECT SWITCH
[]	CEILING MOUNTED FUSED DISCONNECT SWITCH
4	TELEPHONE
J	JUNCTION BOX
\$	SINGLE POLE SWITCH OR TIMER AS APPLICABLE
N/L	UNSWITCHED FIXTURE
\$0	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER
•	DUPLEX RECEPTACLE
*	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)







UP-FIT PLANS FOR:

T&L COATS

BUILDING #2

COATS, NORTH CAROLINA

REVISIONS

414 E. Edgerton St.

ates, P.A.

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DATE 12-19-22
DRAWN BY BAM
JOB NO. 22-60

SHEET NO. E-2 OF 4

CONSTRUCTION.

	·				TENA	NT 2									TENAI	VT 3					
		VOL.	TS: <u>12</u> LOSU	RE: <u>NEMA 1</u>	MANUFA	CTURER: SQ. D : NQOD SHORT CIRCU	MOUNTING: IT RATING:2		VEI UT	OTE: RIFY AIC RATING WILITY COMPANY BEF DERING PANELS.			VOLTS: 120 ENCLOSU	RE: <u>NEMA 1</u>	00 TYPE Ø: 1	: NQC	RT CIRCUIT RATING: _221	FLUSH			
	. 0	느	_ω		PHA			TRIP POLES CIRCUIT		L2	L1	L2	CIRCUIT POLES TRIP	ACCIONNE	NT 5		ASSIGNMENT	TRIP	CIRCUIT	L1	L2
		CIRCUIT	POLES	ASSIGNMEN ⁷		BIRSA E	SNMENT	TRIP										40 2		21.3	
0	${}$		2 60	AIR HANDLING UNIT	# 2 0	HEAT PL	JMP UNIT # 2	40 2 2	21.3		40.0	$\underset{100}{\sim}$	1 2 60	AIR HANDLING UN	IIT #3 0	0	HEAT PUMP UNIT # 3	40 2	2 4		21.3
	0.0	3				0		4	\leftarrow	21.3	60	40.0	3 5 1 20	OFFICE 1 RECEPTA	ACLES 0		TORAGE ROOM RECEPTACLES	20 1	6	6.0	
2	\times	5	1 20				RECEPTACLES	20 1 6	6.0	<u> </u>	6.0	6.0	7 1 20			0 3	BUILDING SIGN	20 1	8		5.0
\triangleleft	6.0	7	1 20				DING SIGN	20 1 8	\leftarrow	5.0	7.5	₩.U	9 1 20				AHU CONV. RECEPTACLE	20 1	10	1.5	>
5	$\geq \leq$	9	1 20				/. RECEPTACLE	20 1 10 20 1 12	1.5	1.5	/	7.5	11 1 20				EAT PUMP CONV. RECEPT.	20 1	12	\times	1.5
\leq	7.5	11	1 20				CONV. RECEPT.	20 1 12	2.4	1.0	4.9	<u> </u>	13 1 20				OFFICE AREA LIGHTS	20 1	14	2.4	> <
3	\geq	13	1 20				REA LIGHTS			30.0		$\sqrt{\mathbf{x}}$	15 1 20			O PO		40 2	16	X	30.0
\leq	X	15	1 20			O POINT OF US	SE WATER HEATE	18	+	50.0	\sqrt{x}	$\stackrel{\circ}{\searrow}$	17 1 20		. 0				18	30.0	$\supset \subset$
	\simeq	17	1 20			o s	SPARE	20 1 20	 	X		$\overline{\times}$	19 1 20			0	SPARE	20 1	20	>	X
\searrow	<u> </u>	19	1 20				SPARE	20 1 22	T _X		X	$\overline{}$	21 1 20	SPARE	0		SPARE	20 1	22	Χ	$\geq \leq$
	\Rightarrow	23	1 20				SPARE	20 1 24		X		X	23 1 20	SPARE		0	SPARE	20 1	24	$\geq \langle$	X
>	$\hat{}$	25	1 2		0		SPARE	20 1 26	X		X	$\overline{}$	25 1 20	SPARE	0		SPARE	20 1	26	X	$\geq \leq$
	\Rightarrow	27	1 2				SPARE	20 1 28		X	\supset	X	27 1 20	SPARE		0	SPARE	20 1	28	$\geq \leq$	X
\rightarrow	$\hat{}$	29	1 2		0		SPARE	20 1 30		>	X	> <	29 1 20	SPARE	0		SPARE	20 1.	30	X	$\geq \leq$
\rightarrow	$\widehat{\mathbf{x}}$	31	1 2				SPARE	20 1 32	 	X	\times	X	31 1 20	SPARE		0	SPARE	20 1	32	$\geq \leq$	X
\rightarrow	$\hat{\nearrow}$		1 2		0		SPARE	20 1 34	X	>	X	><	33 1 20	SPARE	0		SPARE	20 1	34	X	$\geq \leq$
	$\stackrel{\frown}{\times}$	35	1 2			0 9	SPARE	20 1 36		X	\supset	Х	35 1 20	SPARE		0	SPARE	20 1	36	\geq	X
+	$\hat{\searrow}$	37	1 2		0		SPARE	20 1 38	X	$\overline{\mathbf{x}}$	Х	> <	37 1 20	SPARE	0		SPARE	20 1	38	X	\geq
7	$\overline{\mathbf{x}}$	39	1 2			0 9	SPARE	20 1 40		X		Х	39 1 20	SPARE		0	SPARE	20 1	40	$\geq \leq$	X
7	$\stackrel{\circ}{>}$	41	1 2		0		SPARE	20 1 42	X		Х	$\geq \leq$	41 1 20	O SPARE	0		SPARE	20 1	42	Χ	$\geq \leq$
						119.6 A										119.6 <i>i</i> 111.3 <i>i</i>					
					L2 =	111.3 A									LZ =	111.5 /	M .				
															÷						
			01/0	TERRAND COURSENT																•	
				TEM AND EQUIPMENT PLIANCE:					TENAN	JT 1			•	TENANT 2 AND 3	}		TENA	NT 4			
				,			, ELE	CTDICAL I O				Œ	LECTRICA	L LOAD CALCULATI			ELECTRICAL LOAD CA	LCULA	ATION	IS	
	RGY C			PRESCRIPTIVE 🖾		ERFORMANCE E		CTRICAL LO		CULATIONS	\/A				<u>VA</u>		1750 SQUARE FEET				VA.
ASH	RAE 9	0.1:		PRESCRIPTIVE	PE	ERFORMANCE [1750	SQUARE FEET			<u>VA</u>		750 SQUARE	rec i		•					
REFI	R TO	DRA	WINGS	FOR RISER DIAGRAM AND F	PANEL SCH	EDULES	NON	ICONTINUOU	IS LOAD	os:		N	ONCONTIN	NUOUS LOADS:			NONCONTINUOUS LOA	NDS:			
LIG	HTIN	G SC	CHEDI	JLE			36 R	ECEPTACLES @	180 VA	EA. 6480		2	4 RECEPTACI	LES @ 180 VA EA.	4320		25 RECEPTACLES @ 180 \	/A EA.		6120	
LAM	P TYF	E RE	QUIRE	IN FIXTURE:	SEE SC	HEDULE I	1ST	10000 AINDER @ 50%	WW FA		6480 0	19	ST 10000 EMAINDER @		4	320 0	1ST 10000 REMAINDER @ 50%				6120
NUN	BER (OF LA	MPS I	N FIXTURE:			TOTA	L			6480	T	OTAL		4	320	TOTAL				6120
														1010400			CONTINUIOUS LOADS:				

|20 | 1 | 42 | X |

TENANT 1		IENANI ZAND 3
ELECTRICAL LOAD CALCULATIONS		ELECTRICAL LOAD CALCULATIO
1750 SQUARE FEET	<u>VA</u>	1750 SQUARE FEET
NONCONTINUOUS LOADS:		NONCONTINUOUS LOADS:
36 RECEPTACLES @ 180 VA EA. 64 1ST 10000 REMAINDER @ 50% TOTAL	6480 6480 0 6480	24 RECEPTACLES @ 180 VA EA. 1ST 10000 REMAINDER @ 50% TOTAL
CONTINUOUS LOADS: GENERAL LIGHTING LOAD VA/SQ. FT. 1750 SQ. FT. 2275 X 1.25	275 2844	CONTINUOUS LOADS: GENERAL LIGHTING LOAD VA/SQ. FT. 1750 SQ. FT. 2275 X 1.25
AIR HANDLING UNIT	9600	AIR HANDLING UNIT
HEAT PUMP UNITS	5112	HEAT PUMP UNITS
EQUIPMENT:	10176	EQUIPMENT:
25% OF LARGEST MOTOR	822	25% OF LARGEST MOTOR
GRAND TOTAL	35034	GRAND TOTAL
146 AMPS @ 120/240V, 1ø, 60H	Z	127 AMPS @ 120/240V, 1ø,

PANEL: D SCHEDULE:

VOLTS: 120/240

ELECTRICAL LOAD CALCULATIONS	5	
1750 SQUARE FEET		<u>VA</u>
NONCONTINUOUS LOADS:		
25 RECEPTACLES @ 180 VA EA. 1ST 10000 REMAINDER @ 50% TOTAL	6120	6120 0 6120
		0,20
CONTINUOUS LOADS:		
GENERAL LIGHTING LOAD VA/SQ. FT.	0075	
1750 SQ. FT. 1.3 2275 X 1.25	2275	2844
AIR HANDLING UNIT		9600
HEAT PUMP UNITS		5112
EQUIPMENT:		10656
25% OF LARGEST MOTOR		822
GRAND TOTAL		35154
146 AMPS @ 120/240V, 1ø, 60	HZ	

NO. OF SPACES 42

MOUNTING: <u>FLUSH</u>

					TEN	AΝΊ	1						
		PANEL: A SCHEDULE: MANUFACTURER: SQ. D NO. OF SPACES 42											
		VOLTS: 120/240 AMPS: 200 TYPE: NOOD MOUNTING: FLUSH											
		ENG	CLO	SUR	E: <u>NEMA 1</u> Ø: <u>1</u>		S	HORT CIRCUIT RATING: <u>221</u>	<u> </u>		_		
		MAIN	×	ML.O	TOP FEED: BOTTOM FEED: 🗵	COF	PER E	BUS 🖂 GROUND BAR KIT: 🖾 NEUTRA	L BAF	KIT	×		
					:	PH/	ASF				 		
		5	ES	ما					<u> </u>	ES	됬	L1	L2
L1	L2	CIRCUIT	POLES	IRIP	ASSIGNMENT	コ	[2]	ASSIGNMENT	TRIP	POLES	CIRCUIT	l 1	
40.0		1	2	60	AIR HANDLING UNIT #1	0		HEAT PUMP UNIT # 1	40	2	2	21.3	$\overline{}$
+0.0	40.0	3			AIN MAINDENIG ON #1		0				4	\times	21.3
4.5	70.0	5	1	20	WAREHOUSE RECEPTACLES	0		OFFICE 4 RECEPTACLES	20	1	6	6.0	>
$\stackrel{\cdot \cdot \cdot \cdot}{>}$	6.0	7	1	20	OFFICE 3 RECEPTACLES		0	BUILDING SIGN	20	1	8	$\overline{\mathbf{x}}$	5.0
6.0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9	1	20	OFFICE 2 RECEPTACLES	0		AHU CONV. RECEPTACLE	20	1	10	1.5	>
~	7.5	11	1	20	BREAKROOM RECEPTACLES		0	HEAT PUMP CONV. RECEPT.	20	1	12	\times	1.5
6.0		13	1	20	OFFICE 1 RECEPTACLES	0		SPARE	20	1	14	Х	\geq
	7.5	15	1	20	CONFERENCE ROOM RECEPTS.		0	POINT OF USE WATER HEATER	40	2	16	\geq	30.
7.5	\searrow	17	1	20	LOBBY RECEPTACLES	0					18	30.0	\geq
$\overline{\mathbf{x}}$	3.0	19	1	20	COUNTER RECEPTACLE		0	OFFICE LIGHTING	20	1	20	\geq	6.2
3.0	>	21	1	20	COUNTER RECEPTACLE	0		WAREHOUSE LIGHTING	20	1	22	4.0	\geq
$\overline{}$	13.8	23	1	20	GARAGE DOOR OPENER		0	SPARE	20	1	24	$\geq \leq$	X
X	\searrow	25	1	20	SPARE	0		SPARE	20	1	26	X	\geq
> <	X	27	1	20	SPARE		0	SPARE	20	1	28	$\geq \leq$	X
Х		29	1	20	SPARE	0		SPARE	20	1	30	X	\geq
> <	X	31	1	20	SPARE		0	SPARE	20	1	32	\geq	X
Х	\supset	33	1	20	SPARE	0		SPARE	20	1	34	X	\geq
> <	X	35	1	20	SPARE		0	SPARE	20	1	36	\geq	X
Χ	><	37	1	20	SPARE	0		SPARE	20	1	38	X	\geq
> <	X	39	1	20	SPARE		0	SPARE	20	1	40	$ \sim$	X
· · · · · · · · · · · · · · · · · · ·	15	_	- I			1	1	1	100	1 4	1 40		1 ~ /

0

L1 = 129.8 A

L2 = 141.3 A

SPARE

SPARE

40.0

6.0

4.9

BALLASTS TYPE USED IN FIXTURE:

NUMBER OF BALLASTS IN FIXTURE:

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED:

TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED:

ADDITIONAL PRESCRIPTIVE COMPLIANCE

506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT

506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS

506.2.4 HIGHER EFFICENCY SERVICE WATER HEATING

506.2.5 ON—SITE SUPPLY OF RENEWABLE ENERGY □

506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

506.2.2 REDUCED LIGHTING POWER DENSITY

TOTAL WATTAGE PER FIXTURE:

X 41 1 20

	ENCLOSURE: NEMA 1												
		MAIN:	×	MLC	□ TOP FEED: □ BOTTOM FEED: ☑	COP	PER E	BUS GROUND BAR KIT: 🖾 NEUTRA	AL BAF	KIT:	×		
L1	L2	CIRCUIT	POLES	TRIP	ASSIGNMENT	PH/	SE 2	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2
40.0	> <	1	2	60	AIR HANDLING UNIT #4	0		HEAT PUMP UNIT #4	40	2	2	21.3	$\geq \leq$
> <	40.0	3					0				4	$\geq \leq$	21.3
6.0	\times	5	1	20	WAREHOUSE RECEPTACLES	0		DRINKING FOUNTAIN	20	1	6	5.6	$\geq \leq$
> <	6.0	7	1	20	WAREHOUSE RECEPTACLES		0	BUILDING SIGN	20	1	8	$\geq \leq$	5.0
3.0	\times	9	1	20	COUNTER RECEPTACLE	0		AHU CONV. RECEPTACLE	20	1	10	1.5	\geq
> <	9.0	11	1	20	OFFICE 2 RECEPTACLES		0	HEAT PUMP CONV. RECEPT.	20	1	12	$\geq \leq$	1.5
9.1	> <	13	1	20	WAREHOUSE LIGHTING	0		OFFICE AREA LIGHTS	20	1	14	3.1	\geq
> <	3.0	15	1	20	LOBBY 1 RECEPTACLES		0	POINT OF USE WATER HEATER	40	2	16	\geq	30.0
4.5	> <	17	1	20	LOBBY RECEPTACLES	0					18	30.0	\geq
\times	4.5	19	1	20	LOBBY CASEWORK RECEPTS.		0	LOBBY TELEVISION	20	1	20	\geq	5.0
13.8	$\supset \subset$	21	1	20	OVERHEAD DOOR OPENER	0		SPARE	20	1	22	X	\geq
$>\!<$	X	23	1	20	SPARE		0	SPARE	20	1	24	\geq	X
Χ	> <	25	1	20	SPARE	0		SPARE	20	1	26	X	\geq
>	Х	27	1	20	SPARE		0	SPARE	20	1	28	\geq	X
Х	$\supset <$	29	1	20	SPARE	0		SPARE	20	1	30	X	\geq
> <	Х	31	1	20	SPARE		0	SPARE	20	1	32	\geq	X
Х	\boxtimes	33	1	20	SPARE	0		SPARE	20	1	34	X	\geq
$\supset \subset$	Х	35	1	20	SPARE		0	SPARE	20	1	36	\geq	X
Х	> <	37	1	20	SPARE	0		SPARE	20	1	38	X	\geq
> <	X	39	1	20	SPARE		0	SPARE	20	1	40	\geq	X
Х	\supset	41	1	20	SPARE	0		SPARE	20	1	42	X	

L2 = 125.3 A

2275

60HZ

5112

7800

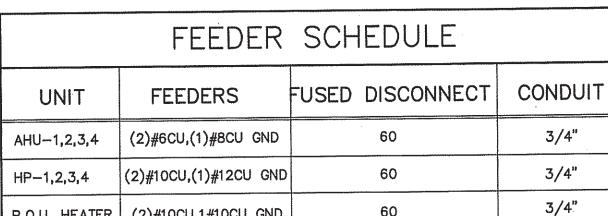
822

30498

TENANT 4

MANUFACTURER: SQ. D

	FEEDER		
UNIT	FEEDERS	FUSED DISCONNECT	CONDUIT
AHU-1,2,3,4	(2)#6CU,(1)#8CU GND	60	3/4"
HP-1,2,3,4	(2)#10CU,(1)#12CU GND	60	3/4"
P.O.U. HEATER	(2)#10CU,1#10CU GND	60	3/4"





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 WIRE 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

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.

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

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

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.

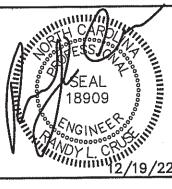
19. 3/4" CONDUIT IS MINIMUM ALLOWABLE SIZE EXCEPT AS INDICATED IN #10. CONDUIT FILL NOT TO EXCEED 40% AS PERMITTED BY THE NATIONAL ELECTRIC CODE.

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

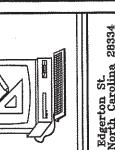
21. NOT USED

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.

- 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
- 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.



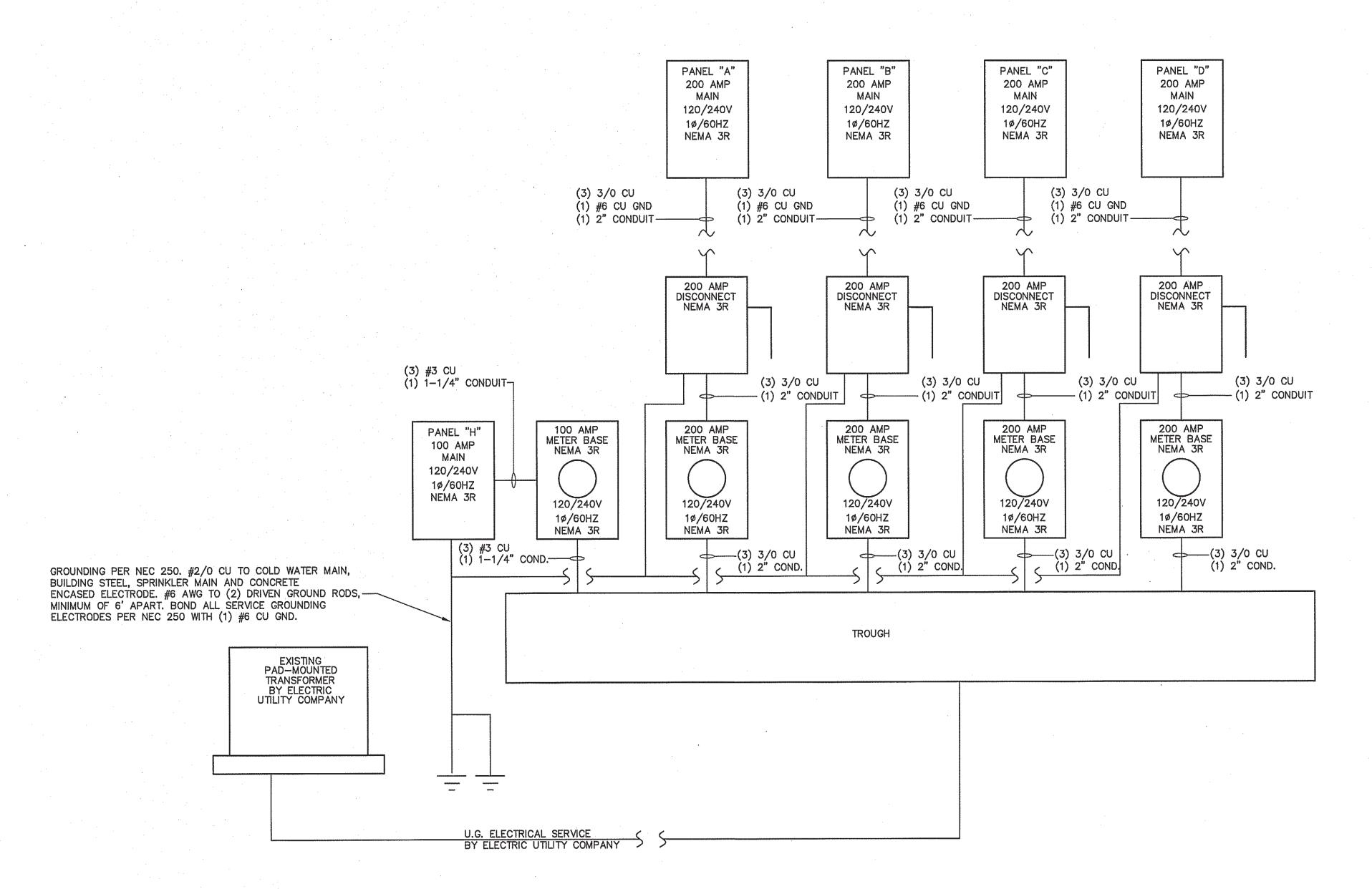
REVISIONS



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DATE 12-19-22 DRAWN BY BAM JOB NO. 22-60

SHEET NO. E-3 OF



ELECTRICAL RISER DIAGRAM NOT TO SCALE

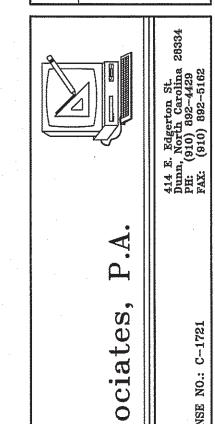
HOUSE PANEL

MANUFACTURER: SQ. D PANEL: H SCHEDULE: NO. OF SPACES 30 SHORT CIRCUIT RATING: 22K MAIN MILO TOP FEED BOTTOM FEED & COPPER BUS GROUND BAR KIT MINEUTRAL BAR KIT MI

		<u></u>	(0			PH	ASE			()	П		
L1	L2	CIRCUI	POLES	TRIP	ASSIGNMENT	[]	L2	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2
7.0	\times	1	1	20	FRONT & LEFT EXT. LIGHTING	0		SPARE	20	1	2	X	$\geq \leq$
\boxtimes	2.0	3	1	20	BUILDING SIGN		0	REAR & RIGHT EXT. LIGHTING	20	1	4	\times	7.0
Х	> <	5	1	20	SPARE	0		SPARE	20	1	6	Х	$\geq \leq$
$\supset \subset$	Х	7	1	20	SPARE		0	SPARE	20	1	8	\geq	Х
Х	\times	9	1	20	SPARE	0		SPARE	20	1	10	Х	$\geq \leq$
	Х	11	1	20	SPARE		0	SPARE	20	1	12	$\geq \leq$	X
Х	\times	13	1	20	SPARE	0		SPARE	20	1	14	X	$\geq \leq$
\supset	Χ	15	1	20	SPARE		0	SPARE	20	1	16	\times	Χ
X	\times	17	1	20	SPARE	0		SPARE	20	1	18	X.	$\geq \leq$
$\supset \subset$	Х	19	1	20	SPARE		0	SPARE	20	1	20	$\geq \leq$	Х
Х	\times	21	1	20	SPARE	0		SPARE	20	1	22	Х	$\geq \leq$
\boxtimes	Χ	23	1	20	SPARE		0	SPARE	20	1	24	$\geq \leq$	Х
Х	> <	25	1	20	SPARE	0		SPARE	20	1	26	Х	$\geq \leq$
\boxtimes	Х	27	1	20	SPARE		0	SPARE	20	1	28	$\geq \leq$	X
X	><	29	1	20	SPARE	0		SPARE	20	1	30	Х	$\geq \leq$

L1 = 7.0 A L2 = 9.0 A

REVISIONS



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KEYNOTES:

1 FUROUT WALL & PROVIDE ACCESS PANEL FOR DOMESTIC

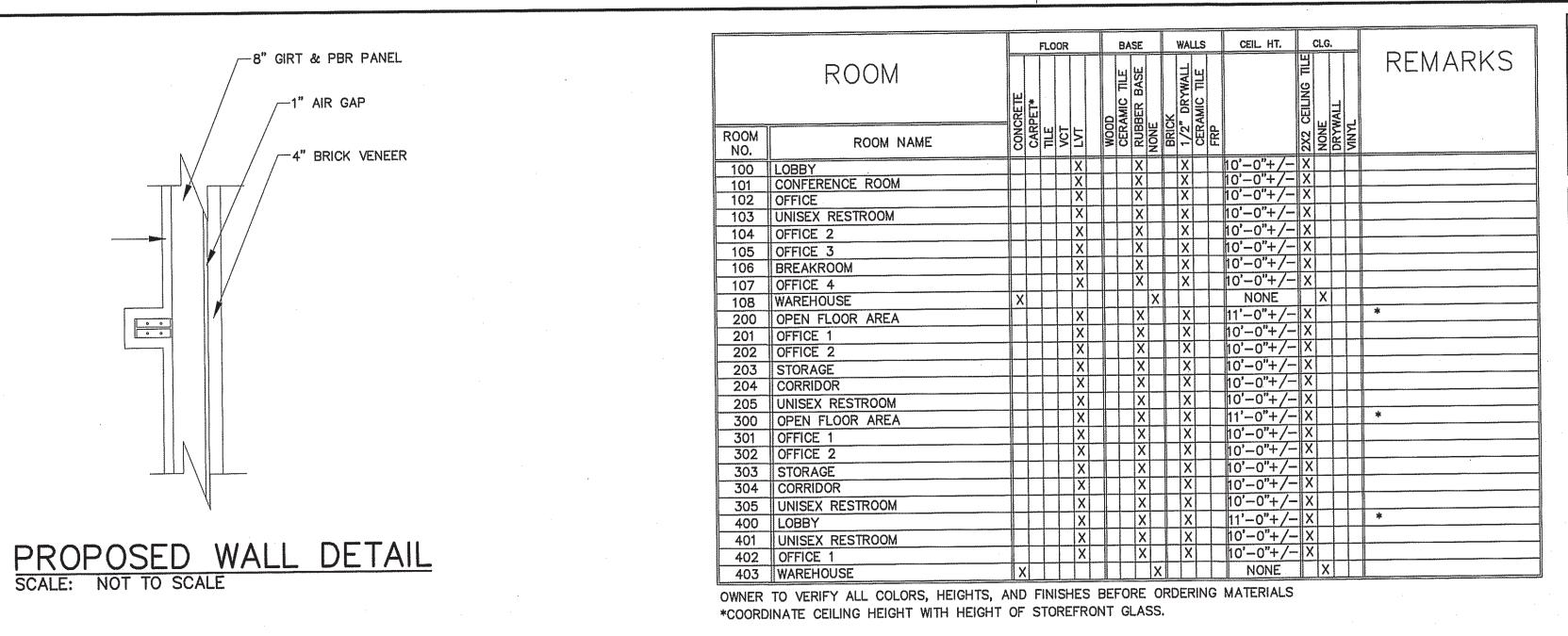
3 6" 18 GA METAL STUDS @ 16" O.C. TO ROOF DECK

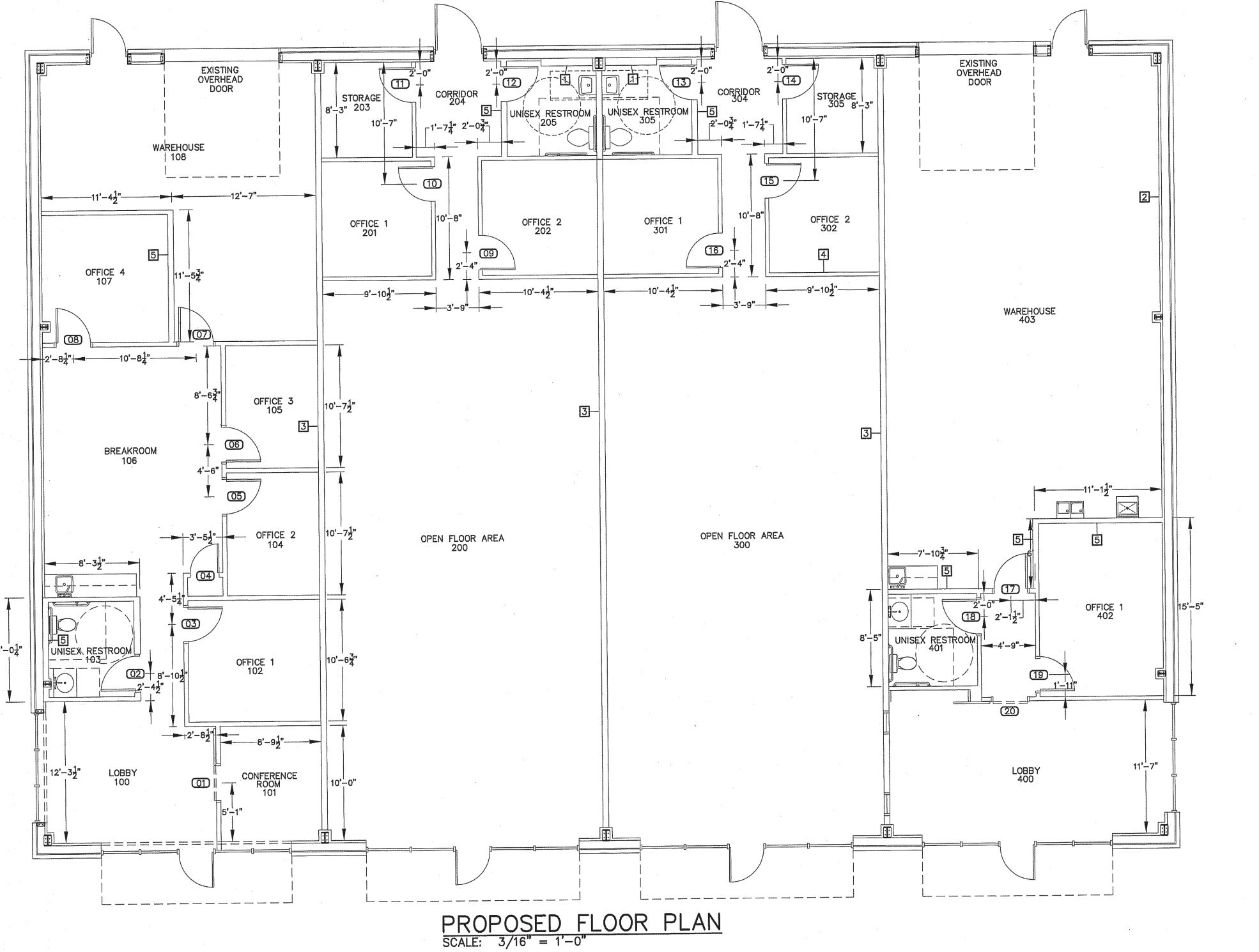
2 2-1/2" 20 GA. METAL STUD @ 16" O.C.

4 3-5/8" 20 GA. METAL STUD @ 16" O.C.

5 6" 20 GA METAL STUDS @ 16" O.C.

WATER SUPPLY FOR WATER SERVICE ENTRANCE (SEE SHEET P-1)

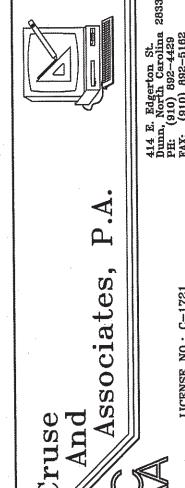




UP-FIT PLANS FOR:
T&L COATS
BUILDING #2

18909

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FOUNDATION NOTES:

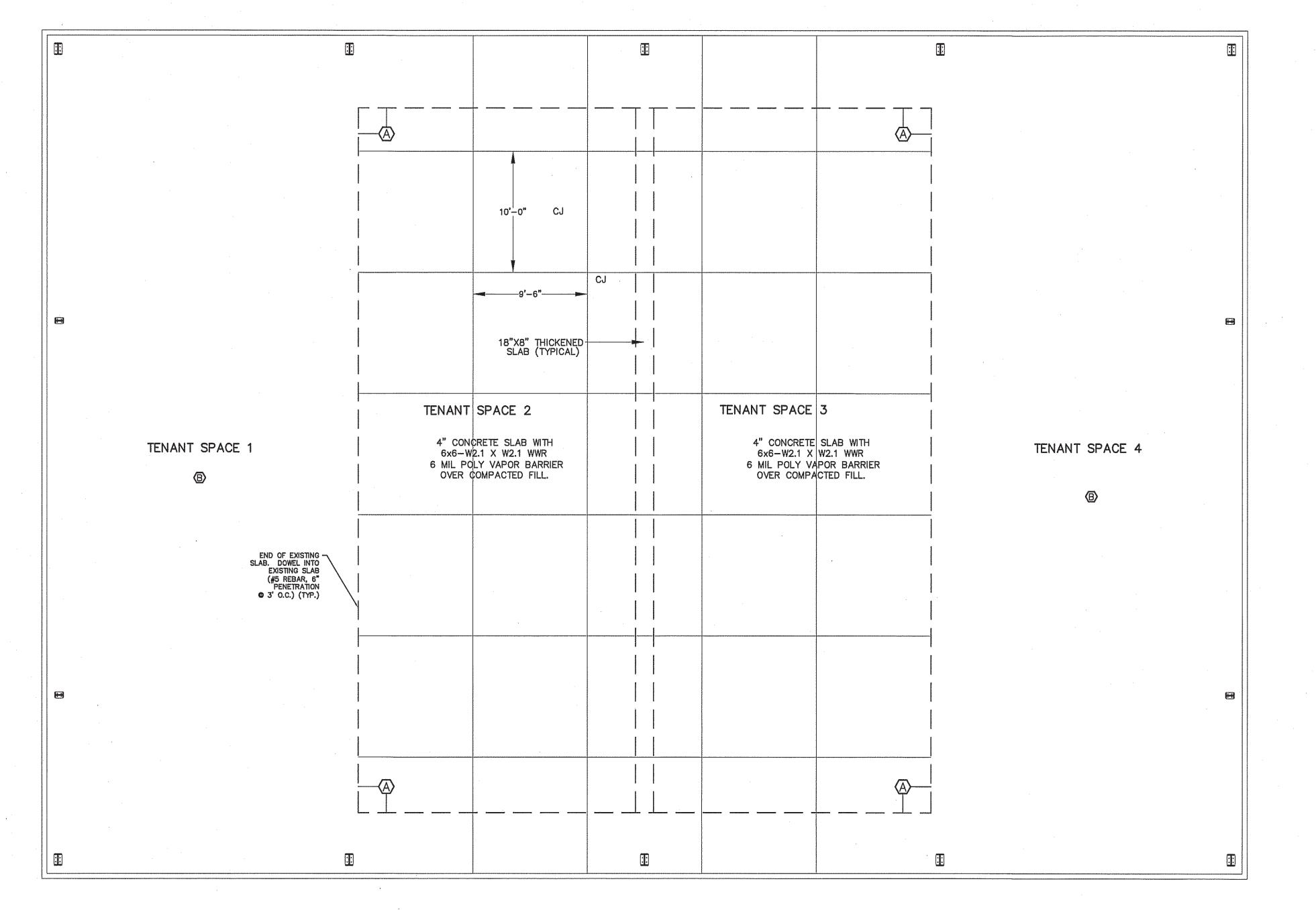
- 1. FIELD VERIFY THE SIZE, LOCATIONS, ELEVATIONS, AND DETAILS OF ALL EXISTING CONSTRUCTION AND CONDITIONS THAT AFFECT THE WORK AND INFORM THE ENGINEER OF ANY DISCREPANCIES IN DIMENSION SIZES, LOCATIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK.
- 2. PROVIDE ALL SHORING, SHEETING, UNDERPINNING, AND OTHER MEANS REQUIRED TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY, AND STABILITY OF ALL EXISTING AND NEW CONSTRUCTION THAT MAY BE AFFECTED BY THE WORK.
- 5. CONCRETE SHALL DEVELOP COMPRESSIVE STRENGTHS (F'C) AT 28 DAYS AS FOLLOWS: FOUNDATIONS, WALLS, FOOTING, ETC. 3000 PSI SLABS ON GRADE 3000 PSI
- 4. ALL BUILDING FOOTINGS AND FOUNDATIONS ARE DESIGNED BASED UPON A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. IF SUITABLE SOIL CAPABLE OF SUSTAINING THIS CAPACITY IS NOT FOUND AT THE ELEVATIONS INDICATED, THE ENGINEER SHALL BE NOTIFIED AND THE FOUNDATIONS SHALL BE CHANGED IN ELEVATION AND/OR SIZE AS DETERMINED BY THE ENGINEER.
- 5. CONCRETE BAR REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARD SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT ASTM A-615, GRADE 60.
- 6. ALL STRUCTURAL FILL INSIDE THE BUILDING SHALL BE SELECTED FILL COMPACTED TO 96% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D-698)
- 7. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315-80).
- 8. PROVIDE CORNER BARS AT ALL FOOTING CORNERS AND STEPS UNLESS OTHERWISE NOTED. BARS SHALL BE A MINIMUM OF 4'-0" LONG AND HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.
- 9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND A-82.
- 10. CONTINUOUS REINFORCING BARS SHALL BE LAPPED 48 BAR DIAMETERS AT ALL SPLICES UNLESS OTHERWISE NOTED.
- 12. STANDARD CONSTRUCTION JOINTS AND EXPANSION JOINTS SHALL BE LOCATED AS SHOWN ON THE PLANS.
- 13. ALL CONCRETE SHALL BE PROTECTED AGAINST FREEZING FOR SEVEN DAYS AFTER POURING.
- 14. FLOOR SLAB TO BE POURED ON 6 MIL POLYETHELENE FILM OVER 4" THICK DRAINAGE FILL, COMPACTED FILL, OR OVER EXISTING CONCRETE SLAB.
- 15. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND CONSULT ALL AFFECTED SUBCONTRACTORS FOR LOCATIONS AND SIZES OF REQUIRED OPENINGS AND CAST—IN—ITEMS IN CONCRETE WORK. ALL OPENINGS ON THE STRUCTURAL DRAWINGS SHALL BE SHOWN ON SHOP DRAWINGS FOR APPROVAL.

NOTES:

- 1. ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF TO VERIFIED BY CONTRACTOR.
- 2. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- 3. CONTROL JOINTS TO BE PLACED AS SHOWN ON PLAN.
- 4. SEE METAL BUILDING DRAWINGS FOR ACTUAL COLUMN LOCATIONS.

NOTES

1. G.C. TO VERIFY ALL EQUIPMENT SIZES, ELECTRICAL, PLUMBING AND GAS REQUIREMENTS BEFORE BEGINNING CONSTRUCTION.



KEY NOTES:

- A PERIMETER OF NEW CONCRETE SLAB. DOWEL INTO EXISTING SLAB.
- (B) EXISTING CONCRETE SLAB & FOOTINGS.

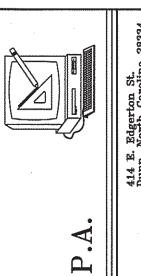
FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

SEAL 18909 SONGINERADO SONGIA SO

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TAL COATS
BUILDING #2

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Cruse And Associates, P.A.

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SHEET NO. F-2 OF 2