	<u>IIGHWAY 27 COATS</u>			ZIP (CODE: 27527	
WNER/AUTHORIZED AGENT:	ROBERT BAREFOO	DT .	PHONE #: (910) 890-3256	EMAIL: V	RBAREFOOT@YAHOO.	COM
WNED BY:	CITY/C		PRIVATE HAPMETT		STATE	
ODE ENFORCEMENT JURISDIC			COUNTY HARNETT	L	STATE	
EAD DESIGN PROFES DESIGNER		<u>E & ASSOCIATES, F</u> TRM	P.A. NAME	LICENSE #	TELEPHONE NO.	E-MAIL
RCHITECTURAL						
IUILDING IVIL	CRUSE & A	SSOCIATES, P.A.	RANDY CRUSE, PE	18909	910-892-4429	RCRUSE@CRUSEASSOCIATES.COM
LECTRICAL	CRUSE & A	SSOCIATES, P.A.	RANDY CRUSE, PE	18909	910-892-4429	RCRUSE@CRUSEASSOCIATES.COM
TRE ALARM PLUMBING	CRUSE & A	SSOCIATES, P.A.	RANDY CRUSE, PE	18909	910-892-4429	RCRUSE@CRUSEASSOCIATES.COM
MECHANICAL SPRINKLER—STANDPIPE	CRUSE & A	SSOCIATES, P.A.	RANDY CRUSE, PE	18909	910-892-4429	RCRUSE@CRUSEASSOCIATES.COM
STRUCTURAL (FOUNDATIO	N) CRUSE & A	SSOCIATES, P.A.	RANDY CRUSE, PE	18909	910-892-4429	RCRUSE@CRUSEASSOCIATES.COM
RETAINING WALLS >5' HIG OTHER	H					
	E FIRMS AND IN	NDIVIDUALS SUCH AS	TRUSS, PRECAST, PRE-ENG	SINEERED, IN	TERIOR DESIGNERS	ETC.)
2018 EDITION NC BUI	LDING CODE:	NEW BUILDING	☐ ADDITION	m	RENOVATION	
		☐ 1ST TIME INTERIOR	-	Ll	TICHO VIIION	
			ACT THE LEAD INSPECTION JURIS	DICTION FOR I	POSSIBLE ADDITIONAL	<u>.</u>
		PROCEDURES & RE				
			TION-SHELL/CORE-CONTACT THE TIONAL PROCEDURES & REQUIRE		TION JURISDICTION F	OR
			THOUSE THOUSE OF TENOTINE	3714.4		
2018 NC EXISTING BU		_	REPAIR	CHAPTE		
	ALTERATION:		LEVEL II Y CHANGE OF USE	LEVEL II		
CONSTRUCTED: (DATE)		_	_			
RENOVATED: (DATE)	PROPOSED	OCCUPANCY(S) (CH. 3)):			
OCCUPANCY CATEGORY (TAB	•					
BASIC BUILDING DATA	A: PROPOS	SED:	□ IV			
		-A -A	□ IV □ V-A			
			□ V-B		70	
SPRINKLERS: MO NO STANDPIPES: MO NO]NFPA 13 □ NFPA 13R □ III □ WET □ DRY	□ NFPA 1	3D	
PRIMARY FIRE DISTRICT:		FLOOD HAZARE			•	
SPECIAL INSPECTIONS RE			HE LOCAL INSPECTION JURIS	DICTION FOR	ADDITIONAL	
			S & REQUIREMENTS)			
GROSS BUILDING ARE	A:					
FLOOR EXISTING (SQ FT)	NEW	(SQ FT)	SUB-TOTAL	-	TOTAL BUILDING = 7,000 SQ.
SRD FLOOR						EXISTING TENANT 1 = 1,750 SQ. TENANT 2 = 1,750 SQ. FT.
IEZZANINE						TENANT 3 = 1,750 SQ. FT. EXISTING TENANT 4 = 1,750 SQ.
ST FLOOR		3	3500 UP-FIT			EXISTING TENANT 4 = 1,750 SQ.
TOTAL GROSS AF	REA: 7,000					
PRIMARY OCCUPANCY CLASS	IFICATION(S):	ALLOWABLE A	AREA 4 □ A5			
PRIMARY OCCUPANCY CLASS ASSEMBLY	DERATE F-	-2 LOW E □ H-2 DEFLAGRA		H-4 HEALTI	H □ H-5 HPM	
PRIMARY OCCUPANCY CLASS ASSEMBLY A BUSINESS B EDUCATIONAL B FACTORY F-1 MOI HAZARDOUS B INSTITUTIONAL B-1	A-1 □ A-2 DERATE □ F-	· ⊠ A-3 □ A-	4 □A-5		H □ H-5 HPM	
PRIMARY OCCUPANCY CLASS ASSEMBLY A BUSINESS BUS	DERATE F- I H-1 DETONATE CONDITION CONDITION CONDITION	-2 LOW -2 DEFLAGRA □ 1 □ 2 □ 1 □ 2 □ 1 □ 2	4 □ A-5 TE □ H-3 COMBUST □		H □ H-5 HPM	
PRIMARY OCCUPANCY CLASS ASSEMBLY A BUSINESS BUS	DERATE F- H-1 DETONATE CONDITION CONDITION CONDITION	-2 LOW -2 LOW -1	4 □ A-5 TE □ H-3 COMBUST □		H □ H-5 HPM	
PRIMARY OCCUPANCY CLASS ASSEMBLY BUSINESS EDUCATIONAL FACTORY F-1 MOI HAZARDOUS INSTITUTIONAL I-1 I-2 I-3 I-4 MERCANTILE RESIDENTIAL R-1 STORAGE S-1	DERATE F-	-2 LOW -2 LOW -1	4	5	Н □ Н—5 НРМ	
PRIMARY OCCUPANCY CLASS ASSEMBLY BUSINESS EDUCATIONAL FACTORY F-1 MOI HAZARDOUS INSTITUTIONAL I-1 I-2 I-3 I-4 MERCANTILE RESIDENTIAL R-1 STORAGE S-1	DERATE F- H-1 DETONATE CONDITION CONDITION CONDITION R-2 MODERATE KING GARAGE	-2 LOW -2 LOW -1	4	5	Н □ Н—5 НРМ	
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ASSEMBLY ASSEMBLY BUSINESS BUS	DERATE F- H-1 DETONATE CONDITION CONDITION CONDITION R-2 MODERATE KING GARAGE SSIFICATION(S):	-2 LOW -2 LOW -1	4 □ A-5 TE □ H-3 COMBUST □ 3 □ 4 □ HIGH-PILED DENCLOSED □ REPAIR OF CELLANEOUS	5 GARAGE	H □ H-5 HPM	
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PRIMARY OCCUPANCY CLASS ASSEMBLY BUSINESS EDUCATIONAL FACTORY F-1 MOI HAZARDOUS INSTITUTIONAL I-1 I-2 I-3 I-4 MERCANTILE RESIDENTIAL STORAGE S-1 PAR CCESSORY OCCUPANCY CLA CIDENTAL USES(CHAPTER 4-LI	DERATE F- H-1 DETONATE CONDITION CONDITION CONDITION R-2 MODERATE KING GARAGE SSIFICATION(S): ST CODE SECTIONS	-2 LOW -2 DEFLAGRA -1	4 □ A-5 TE □ H-3 COMBUST □ □ 3 □ 4 □ □ HIGH-PILED □ ENCLOSED □ REPAIR G CELLANEOUS	5 GARAGE	H □ H-5 HPM	
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RIMARY OCCUPANCY CLASS ASSEMBLY	DERATE F- H-1 DETONATE CONDITION C	Z A-3	4	BUILDING SOR EACH OF OTHE ENTIFE OF THE ACTOR EACH US	HALL BE DETERMING. THE APPLICABLE TIVE TYPE OF RE BUILDING. AREA OF THE	CUPANCY OF EACH
RIMARY OCCUPANCY CLASS ASSEMBLY	DERATE F- I H-1 DETONATE CONDITION CONDITION CONDITION CONDITION CONDITION R-2 MODERATE KING GARAGE SSIFICATION(S): ST CODE SECTIONS R 5-LIST CODE SE I NO SI YE ED USE(508.3) OF OCCUPANCY A OF OCCUPANCY	Z A-3	4	BUILDING SOR EACH OF OTHE ENTIE STORY, THE OF THE ACTOR EACH US (I) AREA PER UNLIM 23,	HALL BE DETERMING. THE APPLICABLE TIVE TYPE OF RE BUILDING. AREA OF THE	CUPANCY OF EACH

² UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.

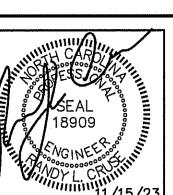
⁴ THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4.

⁵ FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

 3 MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x D (MAXIMUM 3 STORIES) (506.2).

BUILDING HEIGHT IN			/	ALLOWA	BLE	SHO		1 PLANS	CODE REFERENC	CE '	
			FEE		55	- شارعيد پينو	23'-8				
PROVIDE CODE REFE			.t	RIES		STOR S NOT		ON TABLE	504 3 00	504.4	
THE MAXIMUM HEIGH	IT OF AIR TRAF	FIC CONT RKING GA	ROL TO	OWERS MUST	MUST CO COMPLY	MPLY \	MTH TA	ABLE 412.3			
III DINO ELEMENT		FIRE FIRE		ECTIO	N REQUI			In Edian	" brown	" FOD	DECION
BUILDING ELEMENT		SEPAR	ATION NCE	REQ'D	RATING PROVIDI (W/	ED *	AND SHEET	FOR	DESIGN 7 RATE PENETRA	D	DESIGN # FOR RATED
TRUCTURAL FRAM	F	(FEI	ET)		REDUCT	ПОП)		ASSEMBL	YPENETRA	11014	JÖINTS
NCLUDING COLUMN HRDERS, TRUSSES				0	_		-		_		
EARING WALLS EXTERIOR								*****			****
NORTH EAST				0							
WEST SOUTH				0					****		
INTERIOR				0							
ONBEARING WALLS	> &c										
EXTERIOR NORTH		_		0 0			_				
EAST WEST			· · · · · · · · · · · · · · · · · · ·	0							
SOUTH INTERIOR				0							-
LOOR CONSTRUCTI CLUDING SUPPOR EAMS AND JOISTS	TING	****		0				*****			
LOOR CEILING ASS				-				-			-
OOF CONSTRUCTION CLUDING SUPPOREAMS AND JOISTS	ON TING			0					_		
OOF CEILING ASSE	EMBLY	_		_			_	_			-
HAFT ENCLOSURES	S-EXIT			+							
ORRIDOR SEPARA CCUPANCY SEPAR	TION			0							
ARTY/FIRE WALL MOKE BARRIER SE	SEPARATION	-		_	-		_	<u> </u>			
ENANT/DWELLING	UNIT/				_						
LEEPING UNIT SEE	, ,, ,, , , , , , , , , , , , , , , , ,										
LEEPING UNIT SEPICIDENTAL USE SENDICATE SECTION FIRE SEPARATION D FEET) FROM PROPER 82'	PERCENT ISTANCE RTY LINES	TAGE OI DEGREE (PROT (TABLE	F WAI	L OP	ENING C			ACTUAL SH	OWN ON PL/ (%) 2%	ANS	
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DESIGN LOADS:	STRUCTURAL DESIGN-EXISTING BUILDING SNOW (Is)	
LIVE LOADS:	SEISMIC (I _E) PSF	
LIVE COADS.	MEZZANINE PSF FLOOR PSF	
GROUND SNOW LOAD:	PSF	
	BASIC WIND SPEED MPH (ASCE-7) EXSPOSURE CATEGORY	
SEISMIC DESIGN CA	ATEGORY	
OCCUP SPECT SITE	NG SEISMIC DESIGN PARAMETERS: UPANCY CATEGORY (TABLE 1604.5)	
	MOMENT FRAME INVERTED PENDULUM	
	LYSIS PROCEDURE SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC HITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO	
LATERAL DESIGN CO	CONTROL: EARTHQUAKE - WIND -	
PRESUM	ACITIES: TEST (PROVIDE COPY OF TEST REPORT) — PSF UMPTIVE BEARING CAPACITY — PSF SIZE, TYPE, AND CAPACITY — PSF	
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OTHER: PERFORMANCE (SPE	PECIFY SOURCE)	
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EXTERIOR WALLS (EACH ASSE	SEMBLY>	
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U-VALUE OF ASSEMBLY	DOORS WITH GLAZING) DOUBLE PANE, H.M. FRAME Y	
PROJECTION FACTOR WALLS BELOW GRADE (EACH DESCRIPTION OF ASSEMBLY	LY <u>N/A</u>	
U-VALUE OF TOTAL ASSEM	ED SPACE (EACH ASSEMBLY)	
DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM	LY <u>N/A</u> EMBLY <u>N/A</u> R-VALUE OF INSULATION; <u>N/A</u>	
U-VALUE OF TOTAL ASSEN	II <u>R-15 TO BOTTOM OF FOOTING</u> EMBLY	
HDRIZONTAL / VERTICAL SLAB HEATED ?	REQUIREMENT	
Sumr	mary:	
ENERGY CODE: BUILDING CODE: MECHANICAL CODE: PLUMBING CODE: ELECTRICAL CODE: ACCESSIBILITY CODE:	2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE 2018 NORTH CAROLINA STATE BUILDING CODE: BUILDING CODE 2018 NORTH CAROLINA STATE BUILDING CODE: MECHANICAL CODE 2018 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE 2020 NATIONAL ELECTRIC CODE ICC/ANSI 117.1—2009 AMERICAN NATIONAL STANDARD ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	
CONSTRUCTION: OCCUPANCY:	II-B A-3	
P-2 OF 2 PLUMBING M-1 OF 2 MECHANICA M-2 OF 2 MECHANICA E-1 OF 3 ELECTRICAL E-2 OF 3 ELECTRICAL	C B LAN	



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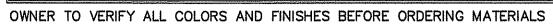
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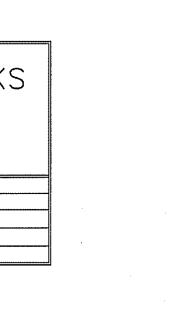
r						
)0()R	SCHEDULE		
DOOR	D	DOOR SIZE		REMARKS		
NO.	WIDE	HIGH	THICK.	KEMMINS		
<u> </u>	4'-0"	7'-0"	1 3/4"	EXISTING EXTERIOR METAL DOOR WITH HM FRAME		
02)	4'-0"	7'-0"	1 3/4"	EXISTING EXTERIOR METAL DOOR WITH HM FRAME		
<u>(03)</u>	3'-0"	7'0"	1 3/4"	EXISTING STOREFRONT EXT. GLASS DOOR WITH 2-8" TRANSOME		
O 4	3'-0"	7'-0"	1 3/4"	EXISTING STOREFRONT EXT. GLASS DOOR WITH 2-8" TRANSOME		
O 5	3'-0"	7'-0"	1 3/4"	NEW INTERIOR WOOD DOOR/HM FRAME		
6	3'-0"	7'-0"	1 3/4"	NEW INTERIOR WOOD DOOR/HM FRAME		
(07)	3'-0"	7'-0"	1 3/4"	DOUBLE INTERIOR WOOD DOORS W/VIEW GLASS; HM FRAME		
<u>08</u>	3'-0"	7'-0"	1 3/4"	NEW INTERIOR WOOD DOOR/HM FRAME		

	WINDOW SCHEDULE								
MARK	WINDO	W SIZE	REMARKS	HEADERS					
	WIDE	HIGH							
(A)	VARIES	10'-0"	EXISTING STOREFRONT DOUBLE PANE WINDOW W/TEMPERED GLASS						

VERIFY	WINDOW	SIZES,	TYPES,	AND	COLORS	WITH	OWNER	BEFORE	BEGINNING	CONSTRUCTION

	G.
	TTI REMARKS I
MOON AME AND SOLVE FOR SOLVE AND SOL	DRYWALL
NO. NOW NAME SOFFIL SOR SO O O O O O O O	[변명]
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101 YOGA ROOM X X X X 10'-0" X	
102 JANITOR'S CLOSET X X X X 10'-0"	X
103 RESTROOM X X X 10'-0" X	
104 RESTROOM X X X 10'-0" X	



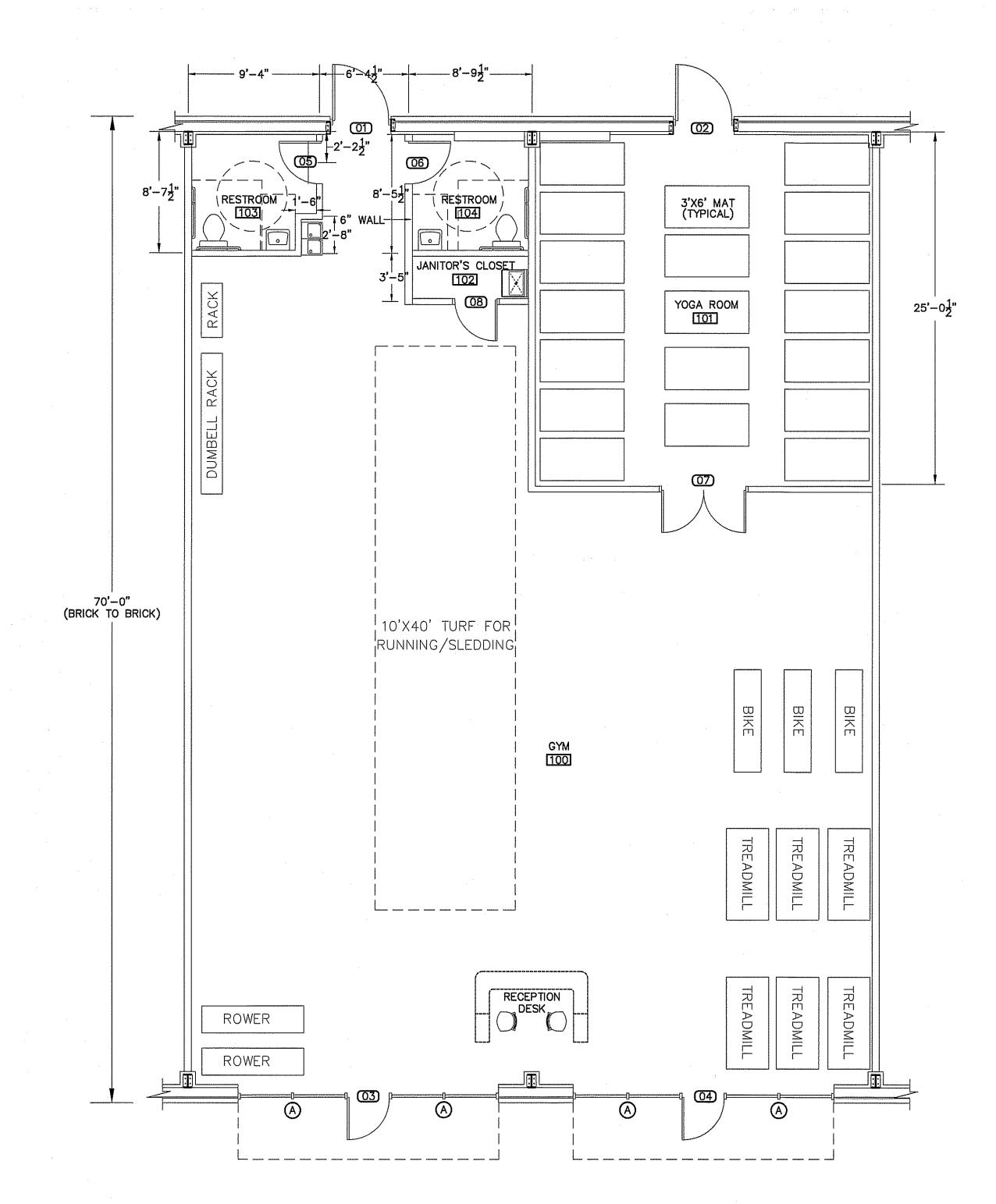


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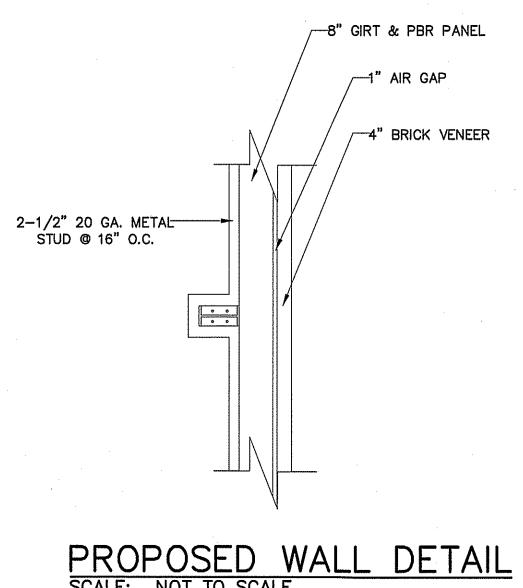
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SHEET NO. F-1 OF 2



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



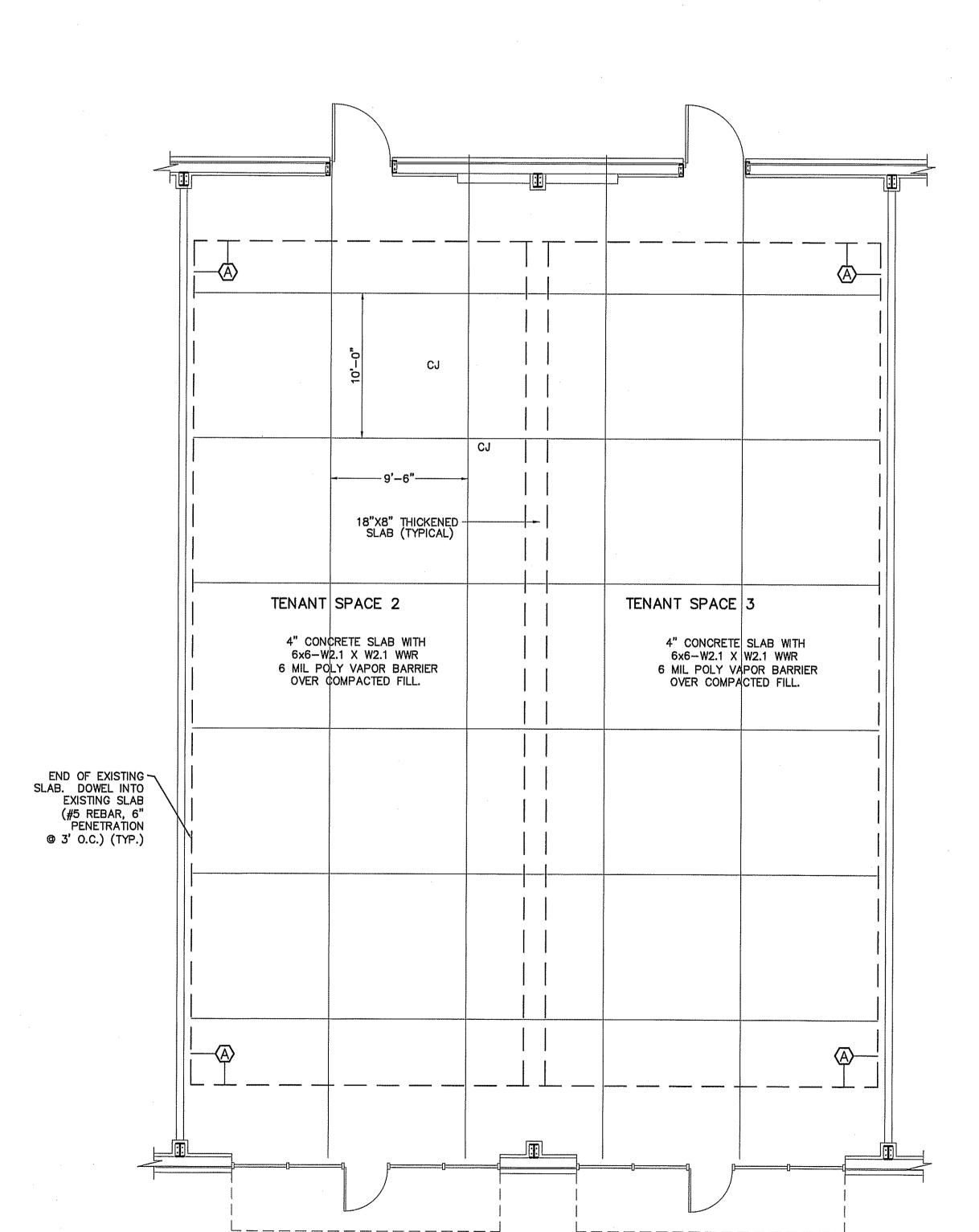
PROPOSED WALL DETAIL SCALE: NOT TO SCALE

KEY PLAN

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.
- 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.
- 3. 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.



KEY NOTES:

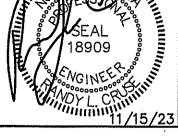
A PERIMETER OF NEW CONCRETE SLAB. DOWEL INTO EXISTING SLAB.

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

NOT

- 1. ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF TO VERIFIED
- 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.



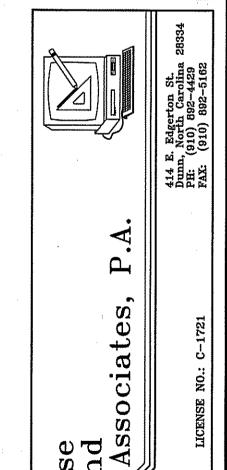
NOTES:

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

7/11/15/2

T&L COATS
BUILDING #2
COATS, NORTH CAROLINA

REVISIONS

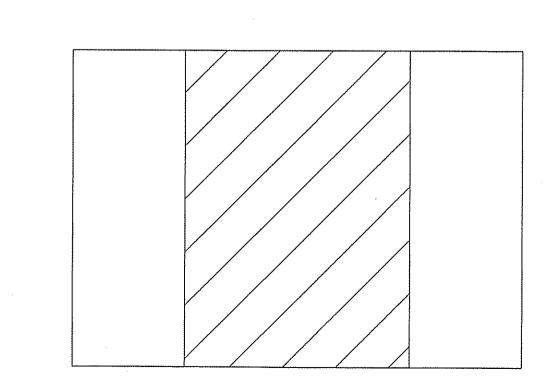


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SHEET NO. F-2 OF 2



KEY PLAN

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

☑ 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)

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

FOR PURPOSES OF OCCUPANCY SEPARATION. SEE NOTE 5 ☑ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10) — SEE NOTE 6

☑ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND AND THE AMOUNT OF DELAY (1010.1.9.7) — SEE NOTE 7

☑ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9) — SEE NOTE 7

☑ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES - SEE NOTE 7

☑ LOCATION OF EMERGENCY ESCAPE WINDOWS (1030) — SEE NOTE 7

☑ THE SQUARE FOOTAGE OF EACH FIRE AREA (202) — 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

EVIT DECILIDEMENTS

	N		XIT REQUIREME AND ARRANGE		S		
FLOOR, ROOM OR SPACE DESIGNATION	MINI NO. OF	MUM ² EXITS	TRAVEL DIS	TANCE	ARRANGEMENT MEANS OF EGRESS 1,3 (SECTION 1016-1021		
	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	
A-3	2	4	200'	53'-9"	41'-5"	70'-0"	
	·						

1. CORRIDOR DEAD ENDS (SECTION 1020.4)

2. BUILDINGS W/SINGLE EXITS (TABLE 1006.3.2(2)), SPACES W/ONE EXIT OR EXIT ACCESS DOORWAY (TABLE 1006.2.1) 3. COMMON PATH OF TRAVEL (SECTION 1029.8)

			EXIT WID	ΓH					
USE GROUP OR SPACE DESCRIPTION	(a)	(b)		(c))		EXIT WID	TH (in)	
	AREA 1 PER CALCULATED OCCUPANT (TABLE LOAD		EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		REQUIRED WIDTH (SECTION 1005.1) (a/b) x c		ACTUAL WIDTH SHOWN ON PLANS		
		1004.1.2)	(a/b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
A-3	3,500	35 NET	100	N/A	.2	N/A	20.0"	N/A	164"
						:			

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)

MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON

1 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS

35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS

47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 25 PEOPLE

47" CLEAR WIDTH DIVIDED BY .2" = 235 OCCUPANTS

CALCULATED OCCUPANCY PER EXIT = 25 PEOPLE

CALCULATED OCCUPANCY PER EXIT = 25 PEOPLE

CALCULATED OCCUPANCY PER EXIT = 25 PEOPLE

CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM

CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM

CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM

EGRESS WIDTH (1005.1)

CAPACITY OF EXIT.

CAPACITY OF EXIT.

CAPACITY OF EXIT.

4. SEE SECTION 1005.6 FOR CONVERGING EXITS.

THE LOSS OF ONE MEANS OF EGRESS SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50% OF THE TOTAL REQUIRED (SECTION 1005.5)

6. ASSEMBLY OCCUPANCIES (SECTION 1029)

3. EXISTING BUILDING: NO CHANGE IN EXTERIOR WALL OPENINGS; NCSBC 705.8 (>30')

1. SEE LEGEND FOR RATED WALLS. 2. EXISTING BUILDING; NO CHANGE IN ASSUMED & REAL PROPERTY LINE LOCATIONS (>30').

4. NO DEAD ENDS

5. NO RATING REQUIRED THIS STRUCTURE

LIFE SAFETY PLAN NOTES:

6. PANIC HARDWARE TO BE INSTALLED ON (4) ENTRANCE/EXIT DOORS. 7. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS REQUIRED

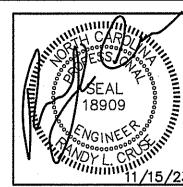
8. FIRE AREAS DO NOT EXCEED CODE ALLOWANCE

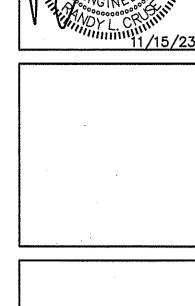
9. BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS

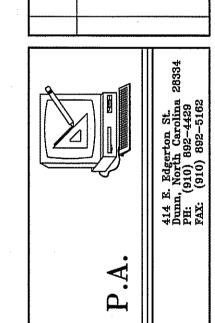
10'X40' TURF FOR! RUNNING/SLEDDING ROWER ROWER

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

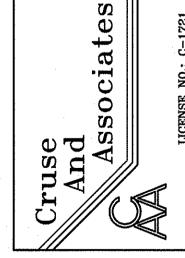
AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.





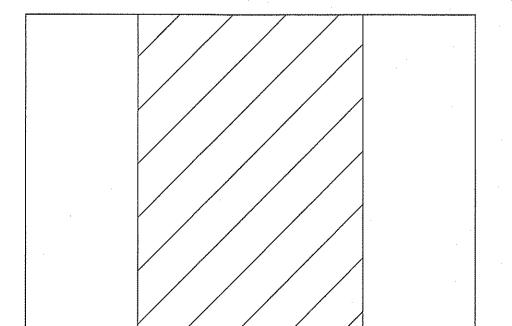


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DATE 11-15-23 DRAWN BY BAM JOB NO. 23-31



KEY PLAN

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"						

SINK

16-18"

GRAB BAR -

	PLUMBING CALCULATIONS								
ITEM	# OF	FIXTURE	UNITS	(EACH)	FIXTURE	UNITS	(TOTAL)	FIXTURE UNITS	
	"	COLD	HOT	TOTAL	COLD	HOT	TOTAL	(WASTE)	
FLUSH TANK WATER CLOSET	2	5.0		5.0	10.0		10.0	4/8	
LAVATORY	2	1.5	1.5	2	3.0	3.0	4.0	1/2	
DRINKING FOUNTAIN	2	.25	*****	.25	.50	anna .	.50	0.5/1.0	
MOP SINK	1	2.25	2.25	3.0	2.25	2.25	3.0	2/2	
TOT#	AL GPM	-		-	15.75	5.25	17.50	13.0	

1/2" COLD DOWN TO — WATER CLOSET

ROWER

WATER SUPPLY PIPE SIZE: MINIMUM 1"

NOTE: P.C. TO VERIFY

KEYNOTE

1 COORDINATE LOCATION OF SUPPLY PIPING WITH LOCATION OF ELECTRICAL PANEL.

EXISTING WATER LINE LOCATION AND ROUTING BEFORE BEGINNING

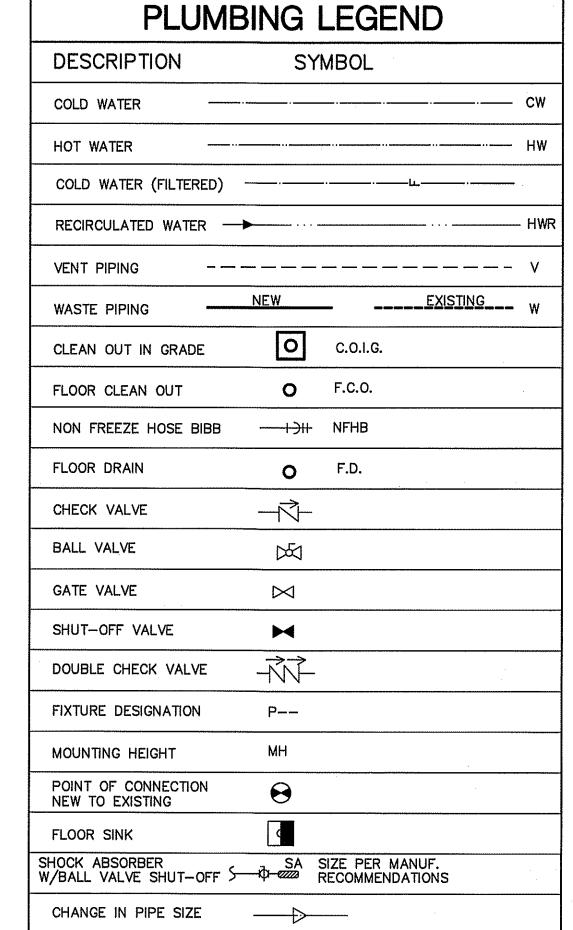
CONSTRUCTION.

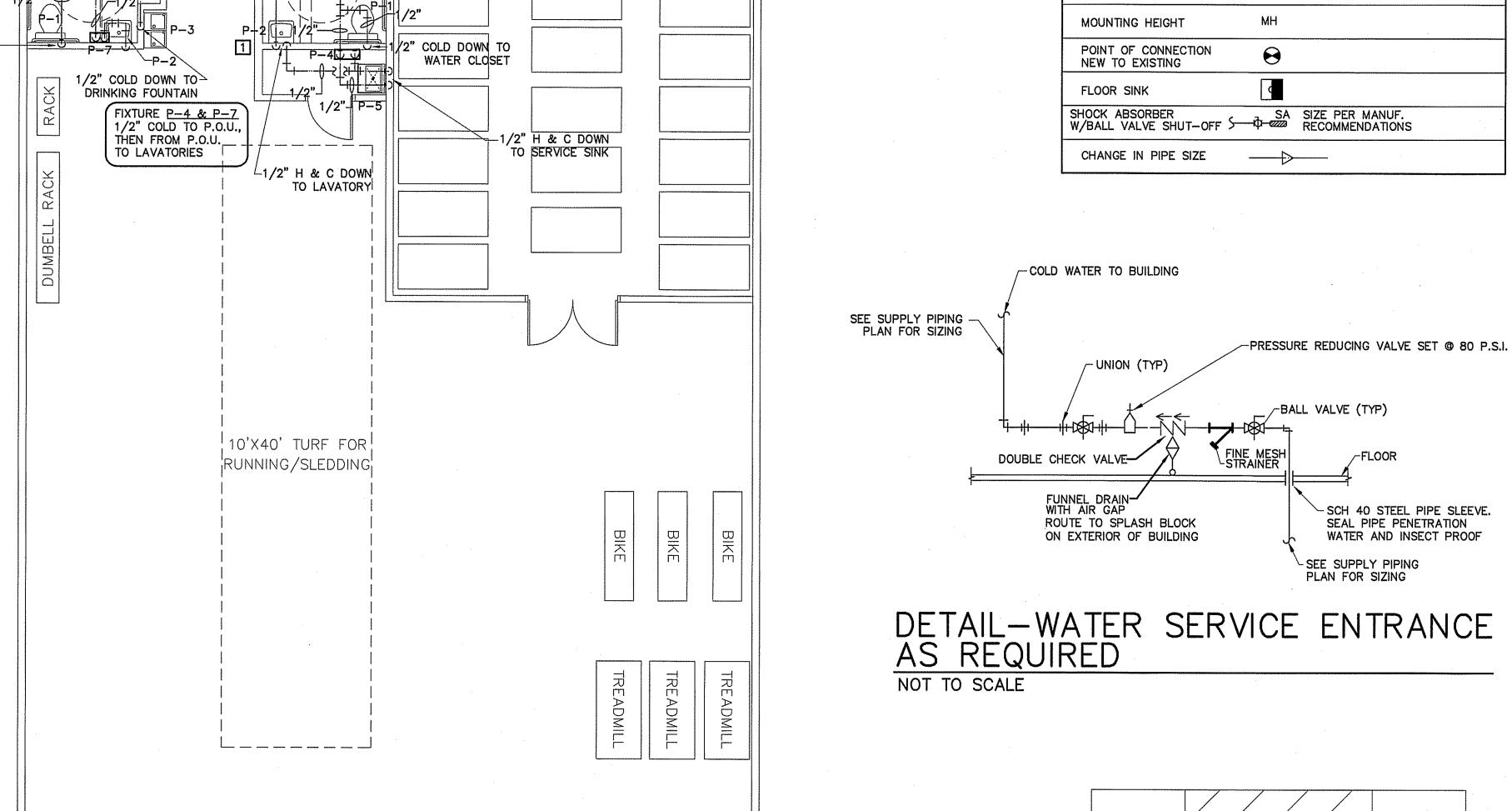
PLUMBING FIXTURE SCHEDULE									
MARK	MAKE	MODEL	DESCRIPTION	NOTES					
P–1	AMERICAN STANDARD	CADET 2377.100	EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET HC ACCESSIBLE, TANK TYPE	WHITE 5311.012 SEAT					
P-2	AMERICAN STANDARD	REGALYN 4869.008 LAVATORY	WALL HUNG ENAMELED CAST IRON LAVATORY RIM @ 31" A.F.F.	1340.227 FAUCET. PROVIDE W/BASKET DRAIN WITH ADA APPROVED PROTECTION FOR PIPING UNDERNEATH					
P-3	OASIS	PG8ACSL	SPLIT LEVEL ELECTRIC WATER COOLER	BARRIER - FREE					
P-4	EEMAX	SPEX55	5.5 KW POINT OF USE WATER HEATER	240V					
P-5	FIAT	SERV-A-SINK L-1	23" SINGLE BASIN FREE STANDING MOP SINK						
P-6	WOODFORD	MOD-65	HOSE BIB FREEZE PROOF	ANTI-SIPHONING WITH VACCUM BREAKER, SELF DRAINING.					
P-7	EEMAX	SPEX3512	3.5 KW POINT OF USE WATER HEATER	120V					

						····					
*	VERIFY	ALL	FIXTURES	WITH	OWNER	BEFORE	PURC	HASE	OR	INSTAL	LATION

1" WATER SERVICE

ENTRANCE (SEE DETAIL)
PROVIDE HEAT TRACE TAPETO PREVENT FREEZING AS NEEDED.







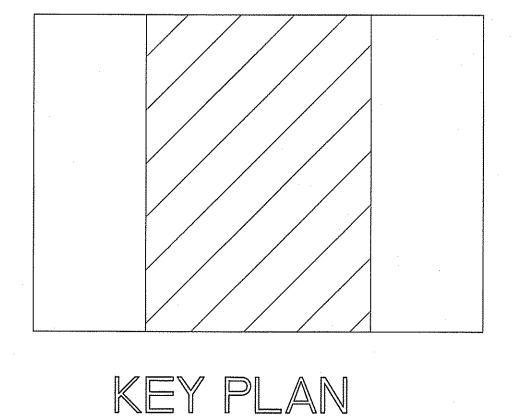
__ 17" MIN 19" MAX

39" MIN 41" MAX

36" MAX.

- 6" MAX BOWL DEPTH





DATE 11-15-23 DRAWN BY BAM JOB NO. 23-31 SHEET NO. P-1 OF 2

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REVISIONS

PLUMBIN	NG CO	NNECTI	ON SCH	EDULE
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"

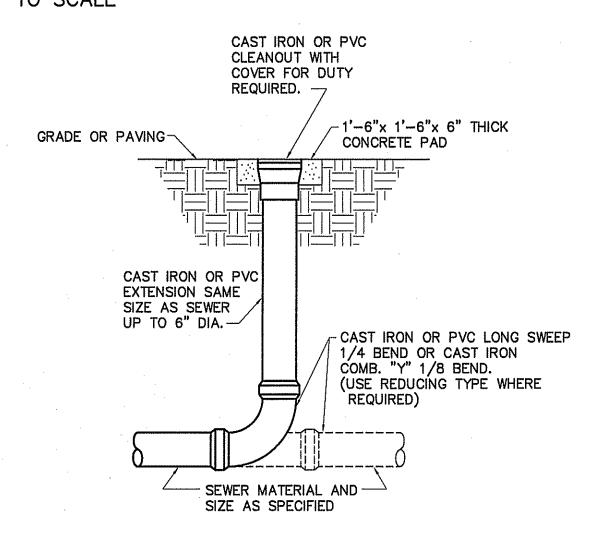
	PLUMBING CALCULATIONS								
	ITEM	# OF	FIXTURE	UNITS	(EACH)	FIXTURE	UNITS	(TOTAL)	FIXTURE UNITS
1	., = ,	<i>π</i> Οι	COLD	HOT	TOTAL	COLD	НОТ	TOTAL	(WASTE)
	FLUSH TANK WATER CLOSET	2	5.0		5.0	10.0		10.0	4/8
	LAVATORY	2	1.5	1.5	2	3.0	3.0	4.0	1/2
	DRINKING FOUNTAIN	2	.25	-	.25	.50	••••	.50	0.5/1.0
	MOP SINK	1	2.25	2.25	3.0	2.25	2.25	3.0	2/2
	TOTA		_	_	15.75	5.25	17.50	13.0	

WATER SUPPLY PIPE SIZE: MINIMUM 1"

	PLUMBING FIXTURE SCHEDULE						
MARK	MAKE	MODEL	DESCRIPTION	NOTES			
P-1	AMERICAN STANDARD	CADET 2377.100	EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET HC ACCESSIBLE, TANK TYPE	WHITE 5311.012 SEAT			
P-2	AMERICAN STANDARD	REGALYN 4869.008 LAVATORY	WALL HUNG ENAMELED CAST IRON LAVATORY RIM @ 31" A.F.F.	1340.227 FAUCET. PROVIDE W/BASKET DRAIN WITH ADA APPROVED PROTECTION FOR PIPING UNDERNEATH			
P-3	OASIS	PG8ACSL	SPLIT LEVEL ELECTRIC WATER COOLER	BARRIER - FREE			
P-4	EEMAX	SPEX55	5.5 KW POINT OF USE WATER HEATER	240V			
P-5	FIAT	SERV-A-SINK L-1	23" SINGLE BASIN FREE STANDING MOP SINK				
P-6	WOODFORD	MOD-65	HOSE BIB FREEZE PROOF	ANTI-SIPHONING WITH VACCUM BREAKER, SELF DRAINING.			
P-7	EEMAX	SPEX3512	3.5 KW POINT OF USE WATER HEATER	120V			

•	1
	—2"VTR
	2"V————————————————————————————————————
	2"V
	2"V—2"V
	4"W-1
TO SEWER	1-1/2"V
	P-5
C.O.A.G. 2"V	P-2
4"W——	
	P-3
P	·
	<u>ال</u> ا
P-1	
	'W

WASTE & VENT RISER DIAGRAM NOT TO SCALE



NOTE: P.C. TO VERIFY EXISTING WATER LINE LOCATION AND ROUTING BEFORE BEGINNING CONSTRUCTION.

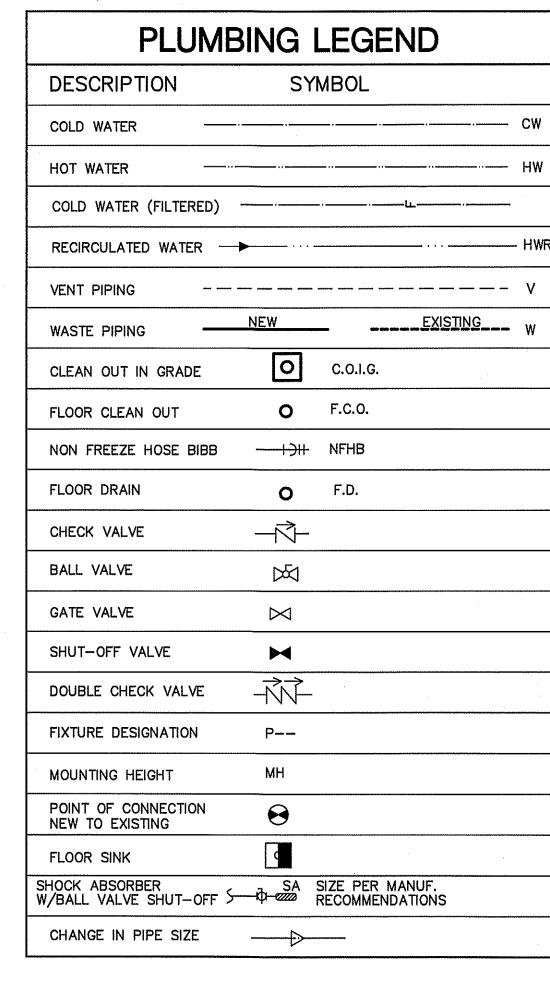
DETAIL-CLEAN OUT AT GRADE NOT TO SCALE

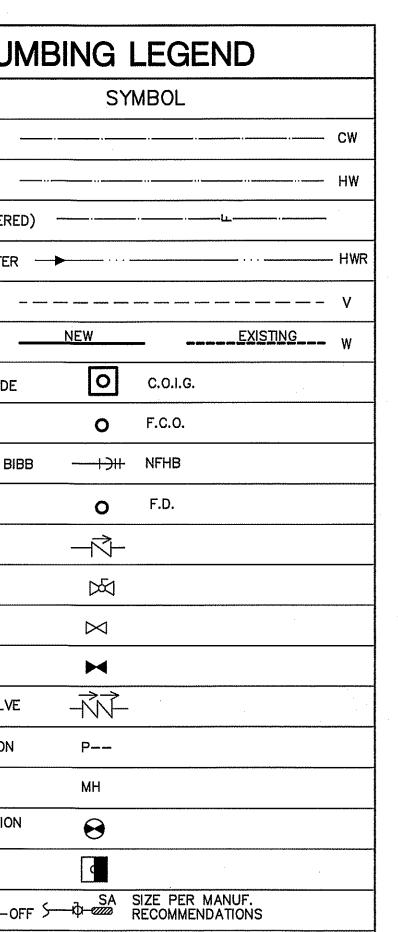
GENERAL PLUMBING NOTES

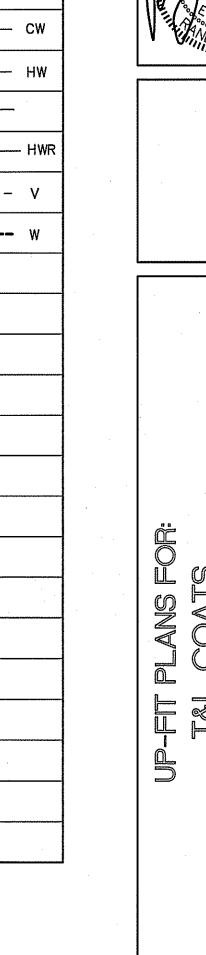
- 1. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
- 2. CONTRACTORS SHALL COORDINATE PIPING WITH ALL OTHER TRADES.
- 3. CONTRACTOR SHALL REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS FOR DIMENSIONS.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN
- 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.

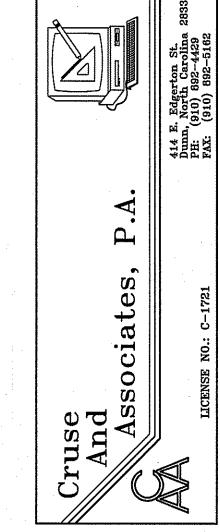
4"W————————————————————————————————————	4"	W C.O.I.G.
THE RACK RACK P-3 1-1/2'	TIE WASTE INTO EXISTING 4" WASTE PIPE 2"VTR	EXISTING 4" CAPPED WASTE LINE BEYOND CONCRETE FLOOR FOR FUTURE TENANT UP—FIT.
	10'X40' TURF FOR RUNNING/SLEDDING	BIKE TRE
ROWER		TREADMILL TREADMILL TREADMILL TREADMILL TREADMILL

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







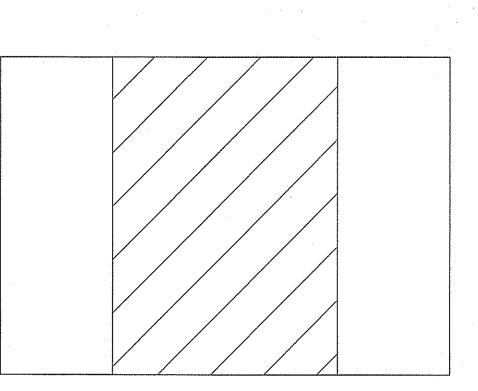


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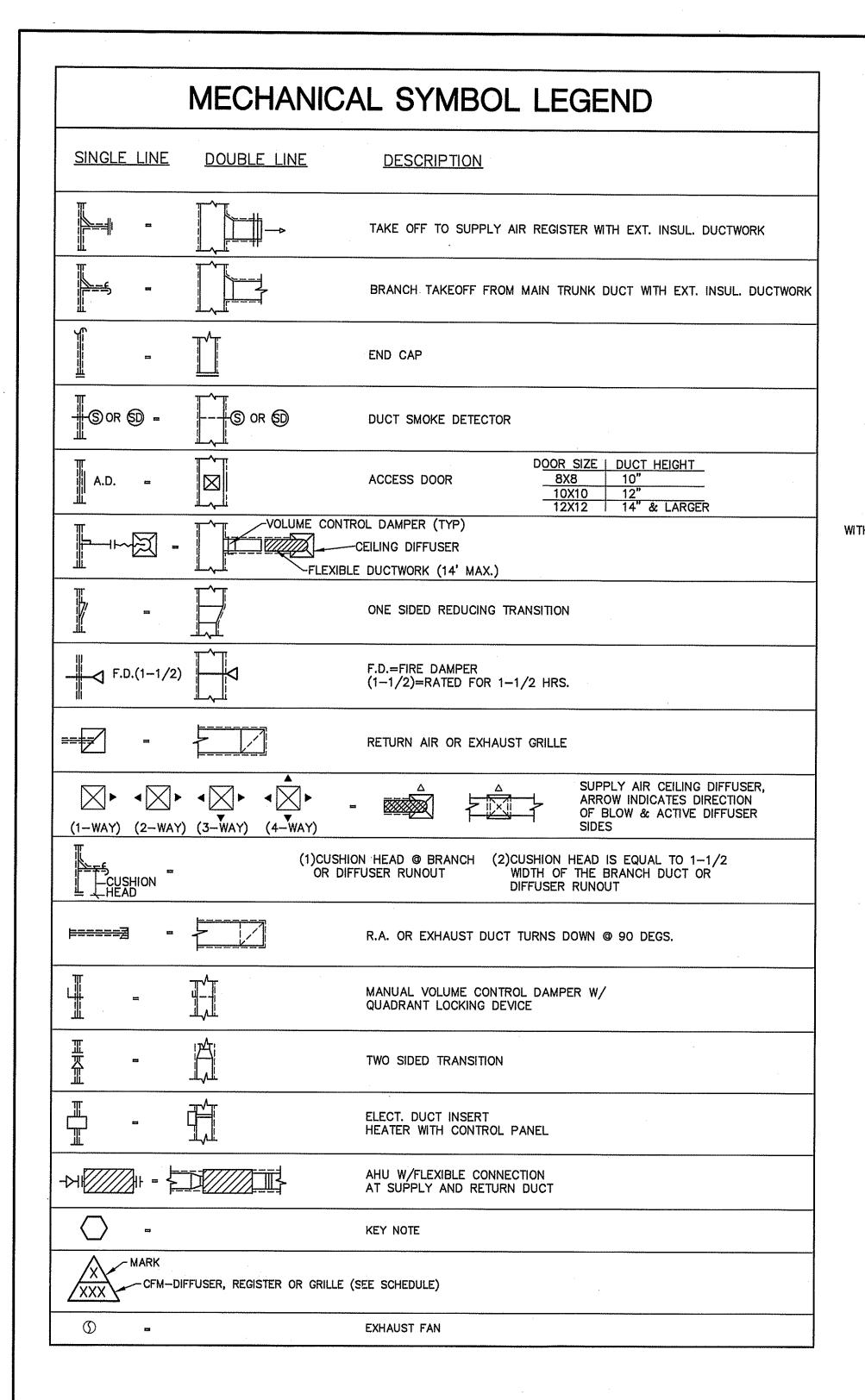
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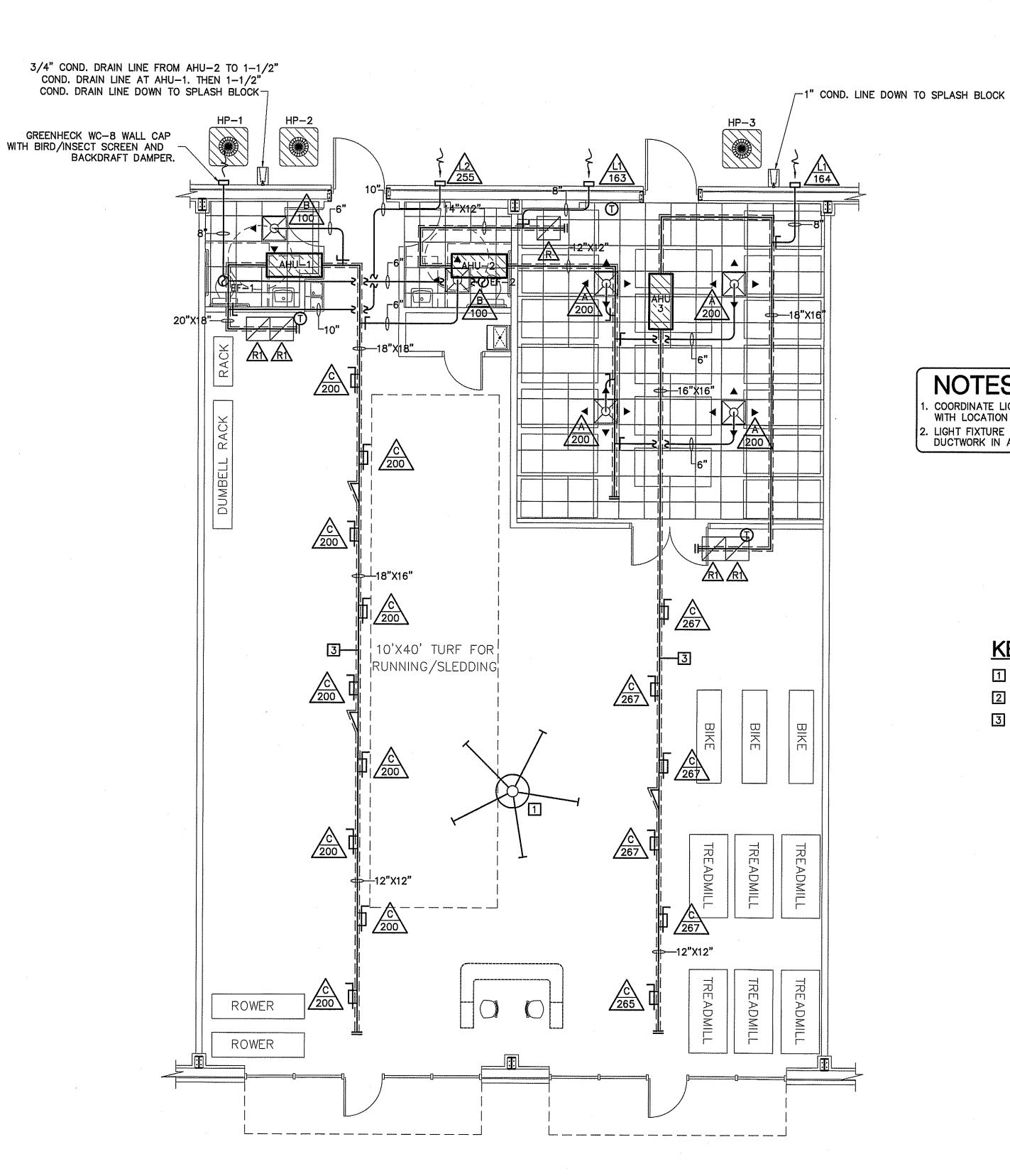
DATE 11-15-23 DRAWN BY BAM JOB NO. 23-31

SHEET NO.

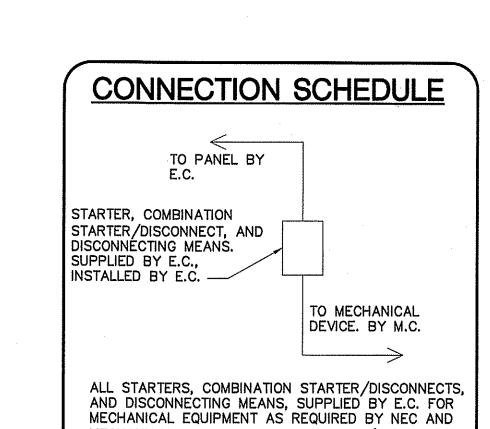


KEY PLAN





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



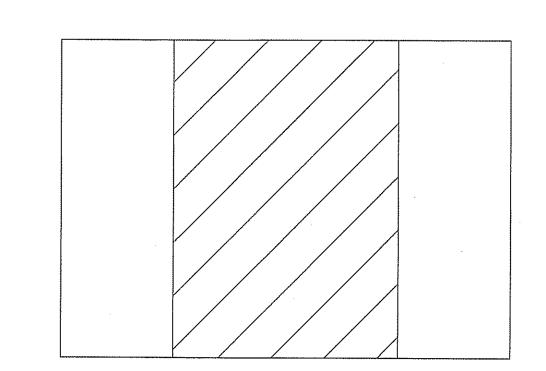
MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS.

NOTES:

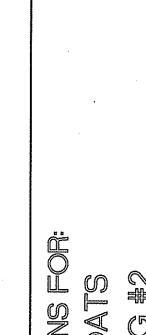
COORDINATE LIGHT FIXTURE HEIGHT & LOCATION WITH LOCATION & HEIGHT OF DUCTWORK. . LIGHT FIXTURE MOUNTED @ 12' A.F.F. & BELOW DUCTWORK IN AREA WITH OPEN CEILING.

KEYNOTE:

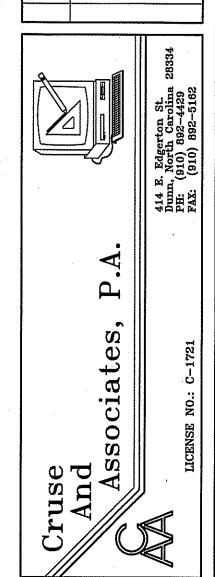
- 1 FAN SELECTED BY OWNER/CONTRACTOR
- 2 LIGHT FIXTURE MOUNTED @ 12' A.F.F. & BELOW DUCTWORK IN AREA WITH OPEN CEILING.
- 3 SHIFT TRUNK DUCT AS REQUIRED TO MISS ROW OF LIGHTS BELOW. SEE SHEET E-1 OF 3.



KEY PLAN



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** PROVIDE OUTDOOR THERMOSTAT TO LOCK OUT SUPPLEMENTAL ELECTRIC HEAT AT OUTDOOR TEMPERATURES ABOVE 40°F.

-ROUND GALV. DUCT

1'-6" MIN.

	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 4	SQ-TO-RND
В	DIFFUSER-2-WAY	30	6"X6"	LAY-IN	STEEL	WHITE	TITUS	TDC 6X6 3 26 2	SQ-TO-RND
C	SIDEWALL DIFFUSER	30	12"X6"	SURACE	STEEL	WHITE	TITUS	121RS	SQ-TO-RND
R	RETURN GRILLE	30	20"X20"	LAY-IN`	STEEL	WHITE	TITUS	23RFL 24X24 3 26	SQ-TO-RND
R1	RETURN GRILLE	30	12"X12"	SURFACE	STEEL	WHITE	TITUS	23RFL 24X24 1 26	SQ-TO-RND

14' FLEX MAX.

WITH DIFFUSERS AT NO ADDITIONAL COST TO OWNER

-INSULATED

EXPOSED "T" BAR

DETAIL-CEILING DIFFUSER CONNECTION

BEE-LINE EPOXY COATED PIPE

SUPPORT SYSTEM. ANCHOR TO

HEAT PUMP OUTDOOR UNIT

- CEILING

-2" SCH. 40

PVC REFRIG. PIPING CONDUIT

-EXPANSION JOIN

MATERIAL

-2X4 TREATED WOOD

ANCHORED TO CONC.

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

-FIN. FLOOR

LEAVE A 1/4" SPACE AT CONDUIT FACE & FILL

WITH CLOSED CELL NEOPRENE FOAM INSULATION TO PROVIDE BACKING FOR SILICONE CAULKING-

FILL AROUND REFRIG. PIPING

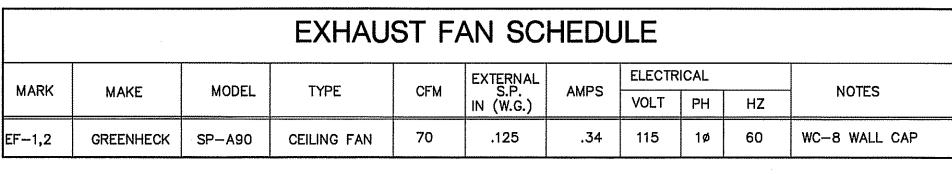
WITH SILICONE CAULK

CONC. PAD.

CONCRETE PAD

MOUNTED

GALVANIZED



LOUVER SCHEDULE								
MARK	DESCRIPTION	SERVES	CFM	APPROXIMATE OUTSIDE DIMENSIONS (W X H)	MODEL			
L1	OUTSIDE AIR LOUVER	AHU-2&3	164	12"X12"	HART & COOLEY 1530ZF 12X12 W/ INSECT SCREEN			
L2	OUTSIDE AIR LOUVER	AHU-1	255	12"X18"	HART & COOLEY 1530ZF 12X18 W/ INSECT SCREEN			

- TIME-DELAY RELAY 7 LIQUID SOLENOID VALVE CYCLE PROTECTOR
- EVAPORATOR FREEZE PROTECTOR 9 FILTER DRIER (LIQUID LINE) ISOLATION RELAY 10 OUTDOOR T'STAT TO LOCK OUT AUX. HT. (SET @ 40° F ADJ) 5 TXV
- 6 HIGH PRESSURE SWITCH
- 11 LOW PRESSURE CONTROL

8 LOW-AMBIENT CONTROLLER

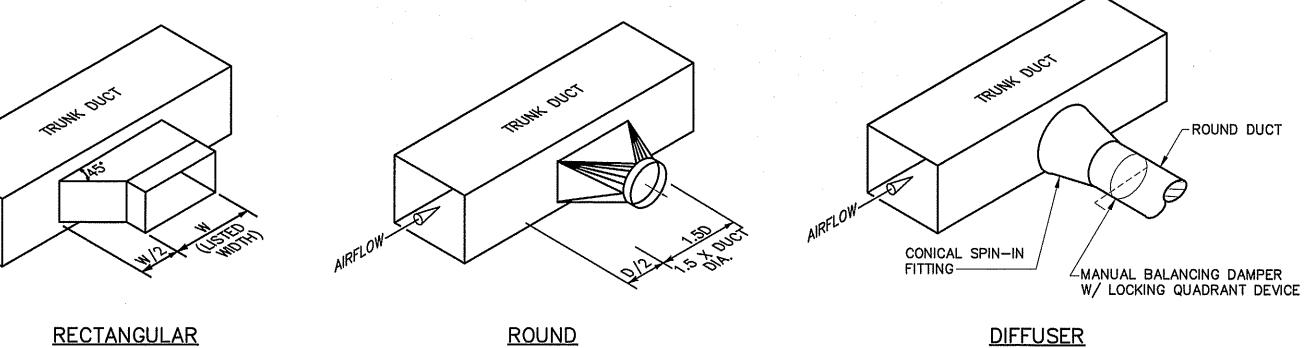
15 THERMOSTAT (SEE NOTE) 12 CRANKCASE HEATER

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 LOW TEMP = 70 DEG F DB INDOOR EAT & 17 DEG F DB/15 DEG F WB 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.

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 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. ALL DUCTWORK SHALL BE SEALED AIR TIGHT WITH SEALING COMPOUND.
- 4. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. DUCT SIZES SHOWN ARE NET INTERIOR DIMENSIONS.
- 5. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PIPING, DUCTWORK, OR EQUIPMENT.
- 6. 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.
- 7. 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.
- 8. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
- 9. PROVIDE FACTORY OR FIELD INSTALLED DRAIN PANS UNDER ALL COOLING COIL UNITS. INSTALL DRAIN PAN FLOAT TO SHUT DOWN UNIT FAN IN EVENT THAT CONDENSATE BEGINS TO FILL EMERGENCY DRAIN PAN. RUN ALL CONDENSATE DRAIN LINES TO APPROPRIATE DRAIN.



TYPICAL LATERAL TO REGISTER OR BRANCH DUCT

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT THERMAL ZONE 4A - HARNETT COUNTY, NC

EXTERIOR DESIGN CONDITIONS

WINTER DRY BULB 16 DEG. F. SUMMER DRY BULB 93 DEG. F.

INTERIOR DESIGN CONDITIONS

WINTER DRY BULB 59 DEG. F.

SUMMER DRY BULB 78 DEG. F.

RELATIVE HUMIDITY 55%

BUILDING HEATING LOAD 63.5 MBH

BUILDING COOLING LOAD 11 TONS

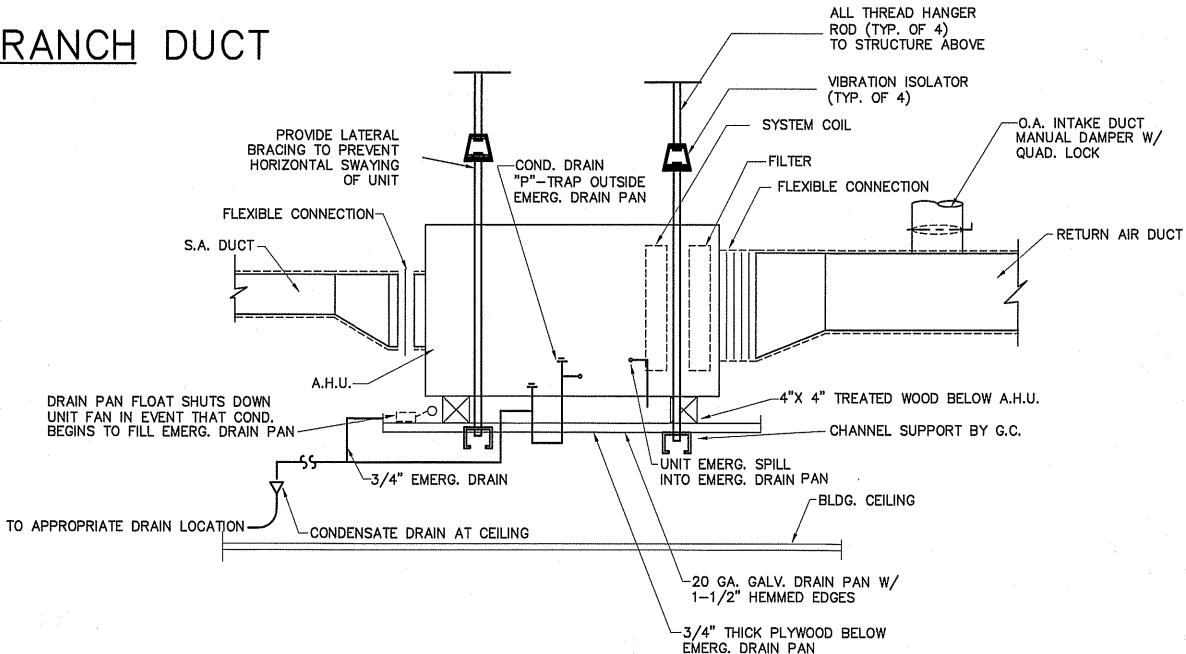
MECHANICAL SPACE CONDITIONING SYSTEM

DESCRIPTION OF UNIT - HEAT PUMP HEATING EFFICIENCY - 8.5 HSPF COOLING EFFICIENCY - 15.2 SEER

SIZE CATEGORY OF UNIT - < 65,000 BTUH BOILER SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

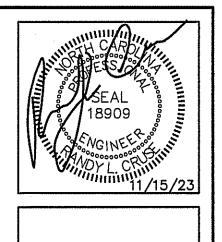
SIZE CATEGORY. IF OVERSIZED, STATE REASON: N/A

SEE SCHEDULE LIST EQUIPMENT EFFICIENCIES



TYPICAL DETAIL AT AIR HANDLING UNITS

NOT TO SCALE



13 DISCHARGE LINE MUFFLER

14 SUCTION AND LIQUID LINE

SHUT OFF VALVES

16 SUPPORT FEET

REVISIONS

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SHEET NO.

DETAIL-TYPICAL HEAT PUMP OUTDOOR UNIT

SECTION NOT TO SCALE

NOT TO SCALE

PANDUIT STRAP-

∠SURFACE

MOUNTED

NOT TO SCALE

PLAN VIEW NOT TO SCALE

B-LINE NO. "BVT" VIBRO-

CLAMPS WITH ZINC FINISH .-

OUTDOOR UNIT-

FIN. GRADE-

FOIL BACKED INSULATION

RECTANGULAR ROUND

ELECTRICAL LEGEND					
MARK	DESCRIPTION				
⊕ wp	'GFI' DUPLEX WITH WEATHERPROOF COVER				
∯ GFI	GROUND FAULT INTERUPTING RECEPTACLE				
∰ іс	208V OR 240 V RECEPTACLE				
◄	TELEPHONE/DATA OUTLET				
Ū	JUNCTION BOX				
	FUSED DISCONNECT SWITCH				
FB	"STEEL CITY" FLOOR BOX WITH CAT 5E CABLE FOR DATA				
~~	SWITCHED BRANCH CIRCUIT				
۲ - ۲	UNSWITCHED BRANCH CIRCUIT				
Y	120/208 VOLT CIRCUIT				
ф	CEILING OR ATTIC MOUNTED DUPLEX RECEPTACLE				
1 -0/0	LIGHT FIXTURE (WALL/CEIL.)				
	FLUORESCENT FIXTURE				
₪ N/L	UNSWITCHED FIXTURE				
⊗	'EXIT' LIGHT FIXTURE, TYPE 'EX'				
¢	BATTERY OPERATED EMERG. LT. (2—HEAD, WALL MTD.)				
\$	SINGLE-POLE SWITCH				
\$3(4)	3-WAY SWITCH (4-WAY SWITCH)				
Ф	DUPLEX RECEPTACLE				
ф	CEILING MOUNTED RECEPTACLE				
	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)				
\$ _o	WALL MOUNTED OCCUPANCY SENSOR WITH SWITCH				

		L	IGHT FIXTURE SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
Α	2X4 LED FLAT PANEL LAY-IN	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM-60LM	LED		42.0	INCLUDE WSX D DIMMING OCCUPANCY WALL SWITCH
В	2X4 LED FLAT PANEL LAY-IN	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM-60LM	LED		32.0	4000 LUMEN
С	2X4 LED FLAT PANEL	LITHONIA	CPANL 2X4 40/50/60LM 35K-40LM-60LM**	LED		42.0	INCLUDE WSX D DIMMING OCCUPANCY WALL SWITCH
C1	1X4 LED FLAT PANEL LAY-IN	LITHONIA	CPXTW 1X4 TUWH PROR 4000LM 80CRI SWL MVOLT NLT	LED		35.2	
D	LED WALL EXTERIOR LIGHT SELECT	ED BY OWNER		LED		25	
EM	EMERGENCY LIGHT WITH BATTERY BACKUP	SURE-LITES	CC8MRT2142SM				
EX	LED TYPE EXIT LIGHT WITH BATTERY BACKUP	SURE-LITES	LPX 70 RWH 120/277				
EM2	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)	SURE-LITES	12T-12-WWH OR 12T-12-DWWH OR EQUAL				

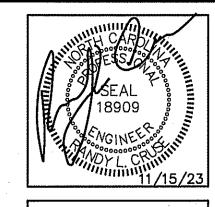
FIXTURES SELECTED BY OWNER AND PURCHASED BY CONTRACTOR

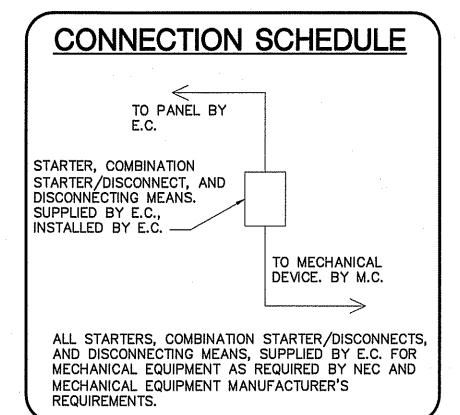
* BEFORE PURCHASING, VERIFY EXTERIOR FIXTURES MEET ZONING ORDINANCE ** INCLUDE HANGERS FOR FIXTURES IN FITNESS AREA TO BE HUNG APRROXIMATELY 12' & BELOW THE DUCT WORK.

C S3D2 C S3D3 C C S3D3 C C SADALL RECOMILE RECOM		EM2 GANG SWITCH NO. 2	EM2 D
A A A A A A A A A A A A A A A A A A A	B B A1 A1	M/EX B C A3 C1 S	S ₃ S _{EM/EX}
EM C C S3D3 C TREADMILL TR	RACK	C A5 EM	A A A A A A A A A A A A A A A A A A A
C N/L TREADMILL		c s _{3D} 3	c c FM
ROWER EM/EX GANG SWITCH NO. 1	c		TRE AD
EM2 EM2	ROWER	EM/EX GANG SWITCH NO. 1	C ADMILL ADMILL EM/EX/

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

LIGHTING DATA FOR ENERGY CODE (CENTER TENANT)							
AREA USE	AREA FT ²	WATTS PER FT ² ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER		
GYM	3500	1.7	5950	1754	4196		
TOTAL	3500		5950	1754	4196		



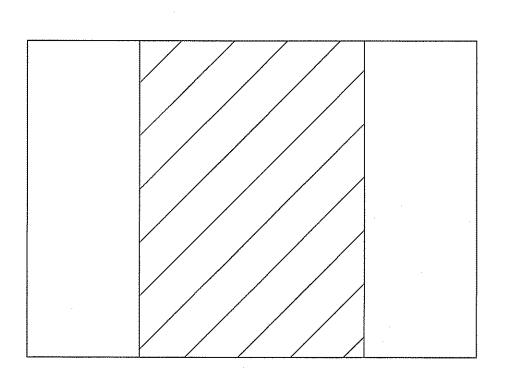


COORDINATE LIGHT FIXTURE HEIGHT & LOCATION WITH LOCATION & HEIGHT OF DUCTWORK.

KEYNOTES:

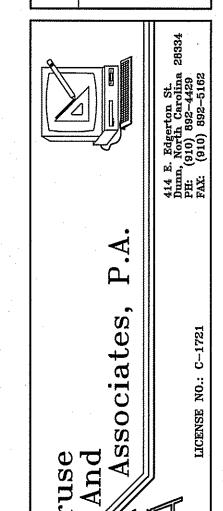
1 FAN SELECTED BY OWNER/CONTRACTOR

2 LIGHT FIXTURE MOUNTED @ 12' A.F.F. & BELOW DUCTWORK IN AREA WITH OPEN CEILING.



KEY PLAN

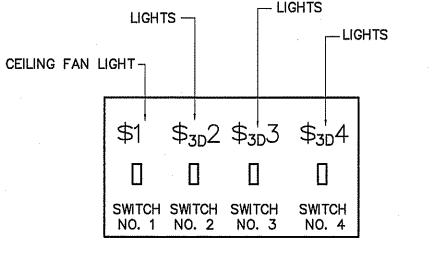
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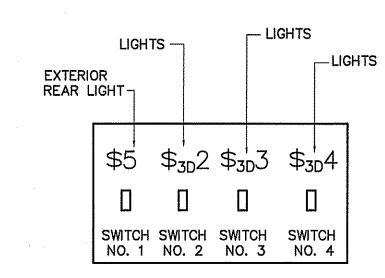
DATE 11-15-23 DRAWN BY BAM JOB NO. 23-31

SHEET NO. E-1 OF 3



CEILING MOUNTED OCCUPANCY SENSOR

DETAIL-GANG SWITCH NO. 1
NOT TO SCALE

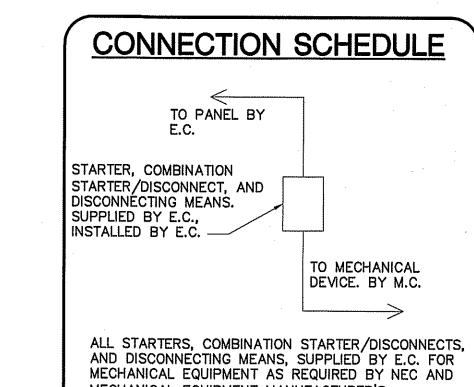


DETAIL-GANG SWITCH NO. 2
NOT TO SCALE

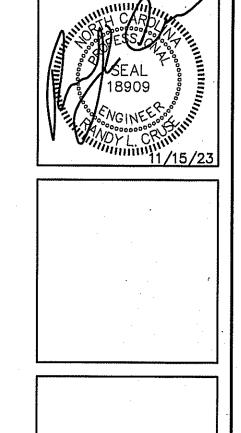
ELECTRICAL LEGEND						
MARK	DESCRIPTION					
ф wp	'GFI' DUPLEX WITH WEATHERPROOF COVER					
∯ GFI	GROUND FAULT INTERUPTING RECEPTACLE					
∰ IG	208V OR 240 V RECEPTACLE					
	TELEPHONE/DATA OUTLET					
IJ	JUNCTION BOX					
	FUSED DISCONNECT SWITCH					
FB	"STEEL CITY" FLOOR BOX WITH CAT 5E CABLE FOR DATA					
~~~	SWITCHED BRANCH CIRCUIT					
۲ - ۲	UNSWITCHED BRANCH CIRCUIT					
~~	120/208 VOLT CIRCUIT					
ф	CEILING OR ATTIC MOUNTED DUPLEX RECEPTACLE					
\$-0/0	LIGHT FIXTURE (WALL/CEIL.)					
	FLUORESCENT FIXTURE					
■N/L	UNSWITCHED FIXTURE					
⊗ .	'EXIT' LIGHT FIXTURE, TYPE 'EX'					
Ľ	BATTERY OPERATED EMERG. LT. (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 REMOTE WEATHERHEAD(S)					
\$ _o	WALL MOUNTED OCCUPANCY SENSOR WITH SWITCH					
FB	FLOOR BOX WITH (2) DUPLEX OUTLETS					



VERIFY LOCATION OF RECEPTACLES FOR TREADMILLS BEFORE BEGINNING CONSTRUCTION.



MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS.



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

REVISIONS NO.

SSOciates, P.A.

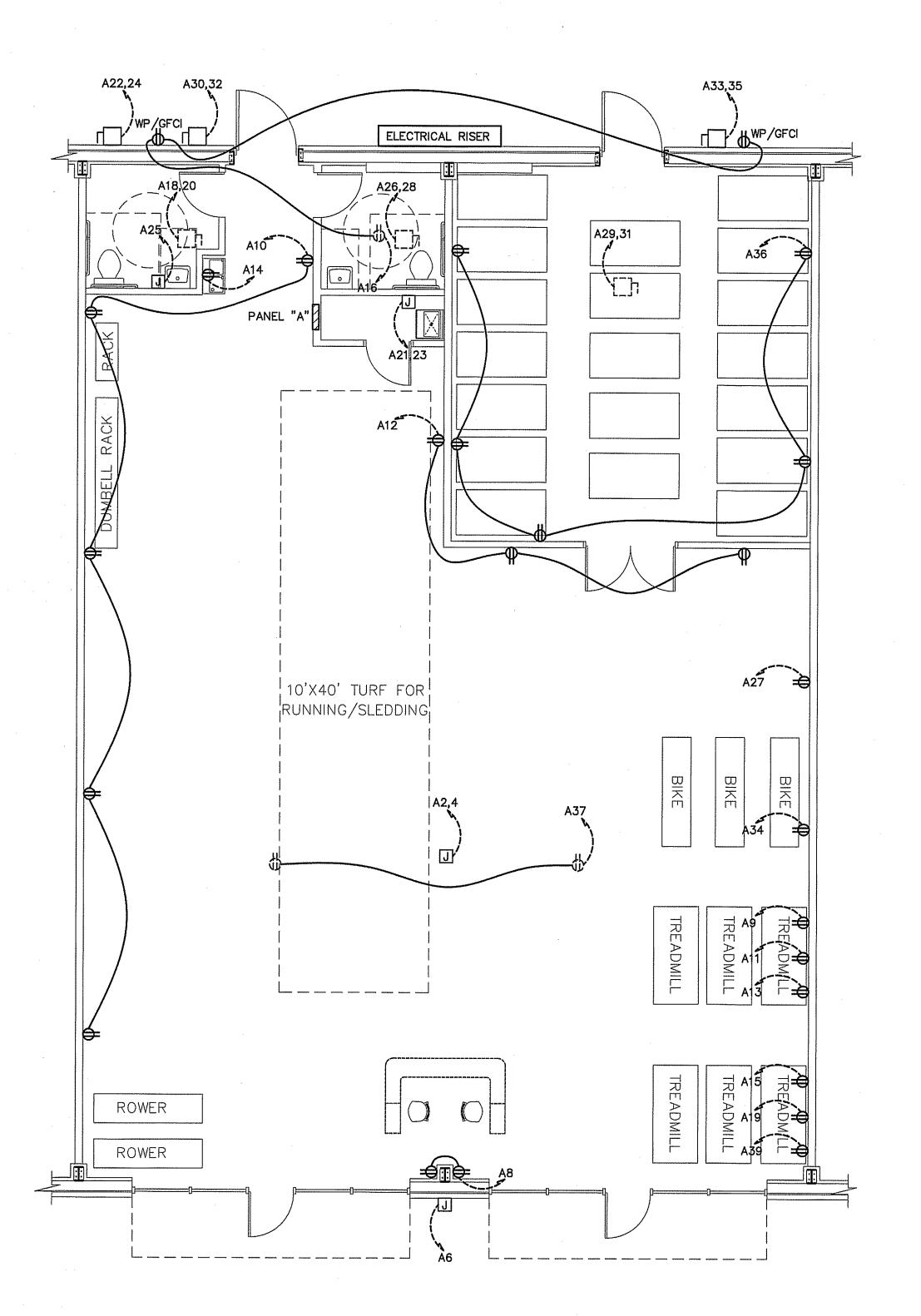
414 E. Edgerton St.
Dum, North Carolina 28334
PH: (910) 892-4429
FAX: (910) 892-5162

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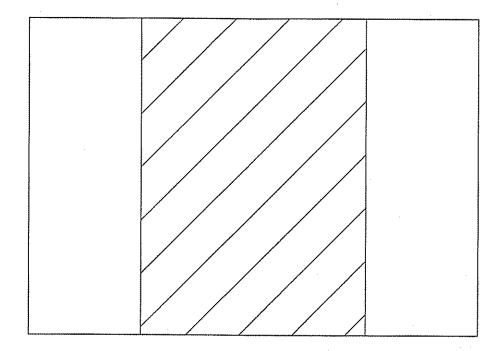
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DATE 11-15-23
DRAWN BY BAM
JOB NO. 23-31

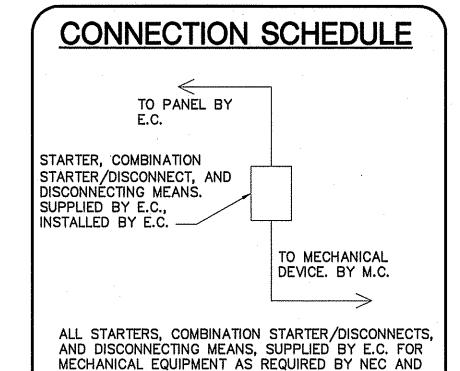
SHEET NO. E-2 OF 3



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



KEY PLAN



FEEDER SCHEDULE								
UNIT	FEEDERS	FUSED	DISCONNECT	CONDUIT				
HP-2	2#12CU,1#12CU GND		30	3/4"				
HP-1,3	2#10CU,1#12CU GND		60	3/4"				
AHU-1,2,3	2#8CU,1#10CU GND		60	3/4"				
POINT OF USE WATER HEATER	2#10CU,1#12CU GND		30	3/4"				

## **ELECTRICAL NOTES (GENERAL)**

MECHANICAL EQUIPMENT MANUFACTURER'S

REQUIREMENTS.

. 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 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

21. BAPTISTRY INSTALLED PER NEC 680. PROVIDE GFCI PROTECTION FOR CIRCUITS.

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

26. MAKE CONDUCTOR LENGTHS FOR PARALLEL CIRCUITS EQUAL.

23. NOT USED

BOXES, TROUGHS, OR GUTTERS.

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. WRING 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 LOAD CALCULATIONS** 3500 SQUARE FEET NONCONTINUOUS LOADS: 19 RECEPTACLES @ 180 VA EA. REMAINDER @ 50% TOTAL **CONTINUOUS LOADS:** GENERAL LIGHTING LOAD VA/SQ. FT. 3500 SQ. FT. 5950 X 1.25 AIR HANDLER UNITS 23040 HEAT PUMPS 12720 **EQUIPMENT:** 20,176 25% OF LARGEST MOTOR GRAND TOTAL 284 AMPS @ 120/240V, 1ø, 60HZ

**METHOD OF COMPLIANCE: ENERGY CODE:** PRESCRIPTIVE X PRESCRIPTIVE ASHRAE 90.1: REFER TO DRAWINGS FOR RISER DIAGRAM AND PANEL SCHEDULES LIGHTING SCHEDULE LAMP TYPE REQUIRED IN FIXTURE: SEE SCHEDULE NUMBER OF LAMPS IN FIXTURE: BALLASTS TYPE USED IN FIXTURE: NUMBER OF BALLASTS IN FIXTURE: TOTAL WATTAGE PER FIXTURE: 7438 TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: ADDITIONAL PRESCRIPTIVE COMPLIANCE 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT 506.2.2 REDUCED LIGHTING POWER DENSITY 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS 506.2.4 HIGHER EFFICENCY SERVICE WATER HEATING

506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY

506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

**ELECTRICAL SYSTEM AND EQUIPMENT** 

PERFORMANCE ENCLOSURE: NEMA 1 Ø: 1 SHORT CIRCUIT RATING: <u>22K</u> PERFORMANCE MAIN+ 🗵 MLO: 🗌 TOP FEED: 🖾 BOTTOM FEED: 🗌 COPPER BUS: 🗵 GROUND BAR KIT: 🖾 NEUTRAL BAR KIT: 🖾 L2 ASSIGNMENT 1 | 1 | 20 | REAR AREA LTS./EX. FANS LARGE FAN 20 2 2 5.4 3 1 20 5.4 ROWS 1 & 2 LIGHTING 20 1 6 5.0 5 1 20 ROWS 3 & 4 LIGHTING BUILDING SIGN >< 2.8 ROWS 5 & 6 LIGHTING FRONT DESK RECEPTACLES 9 1 20 CONVENIENT RECEPTACLES 20 1 10 7.5 TREADMILL 12.0 **TREADMILL** 4.5 CONVENIENT RECEPTACLES 20 1 12 20 1 14 5.6 TREADMILL DRINKING FOUNTAIN | 12.0 | 15 | 1 | 20 | TREADMILL 20 1 16 4.5 HVAC CONV. RECEPTACLES 17 1 20 |50| 2 | 18 | 32.0 | SPARE AIR HANDLING UNIT #1 32.0 × | 12.0 | 19 | 1 |20 | TREADMILL 0 20 < 21 | 2 | 25 | POINT OF USE WATER HEATER | 0 | 50 2 22 22.9 HEAT PUMP UNIT #1 23.0 24 22.9 25 1 30 POINT OF USE WATER HEATER AIR HANDLING UNIT #2 45 2 26 32.0 **>** 12.0 28 >< 32.0 **EQUIPMENT** 25 1 30 10.7 1 29 1 50 AIR HANDLING UNIT #3 HEAT PUMP UNIT #2 >< 32.0 32 >< 10.7 33 1 40 HEAT PUMP UNIT #3 20 1 34 CONV. BIKE RECEPTACLE 1.5 19.4 20 1 36 7.5 YOGA ROOM RECEPTACLES >< 37 | 1 | 20 | CEILING MOUNTED TELEVISIONS | 20 1 38 >< | 12.0 TREADMILL SPARE 20 1 40 SPARE 0 SPARE 20 1 42 L1 = 265.7 AL2 = 264.3 A

MANUFACTURER: SQ. D

TYPE: <u>"NGOD"</u>

NO. OF SPACES 42

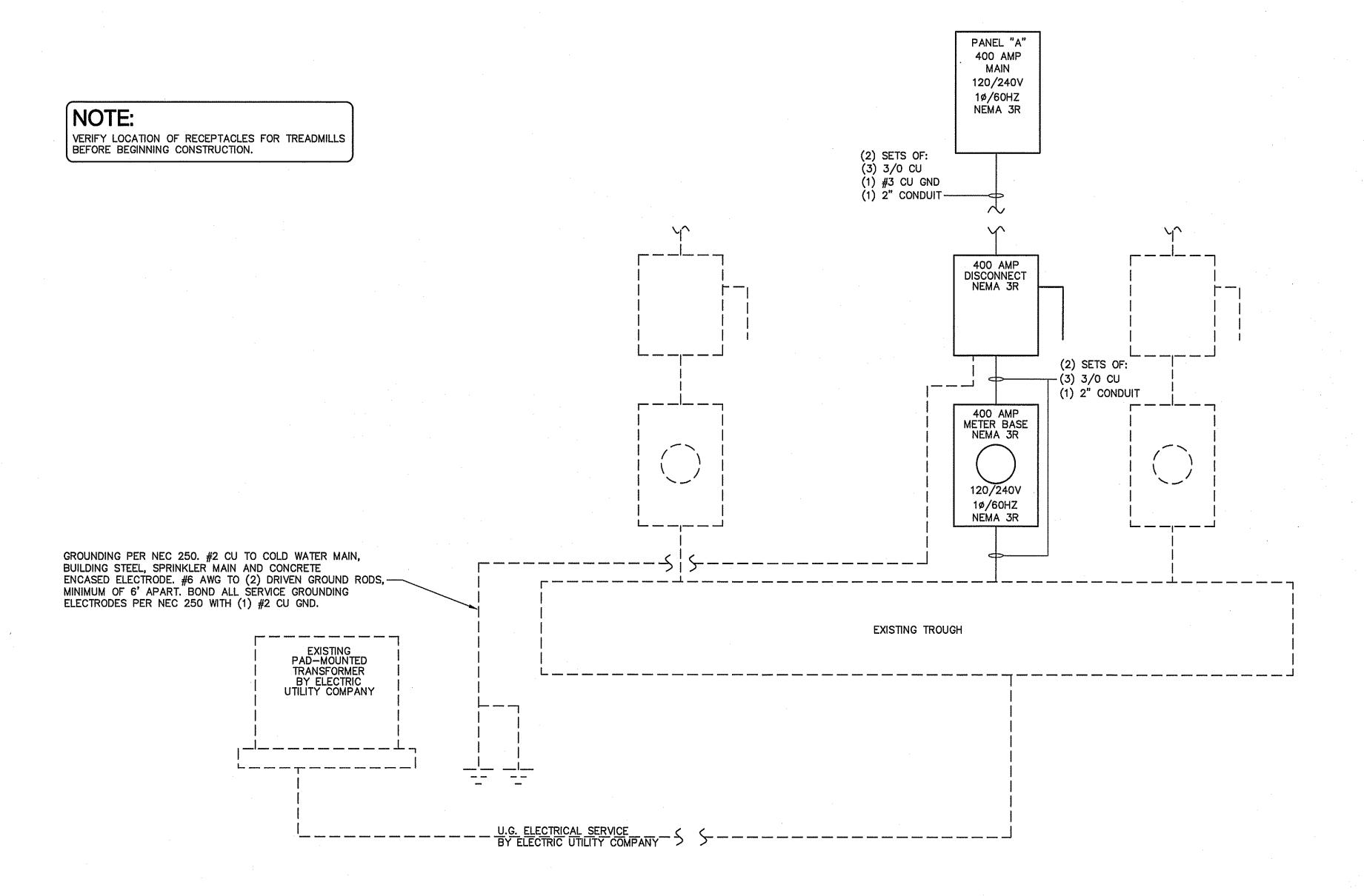
MOUNTING: FLUSH

Panel: A

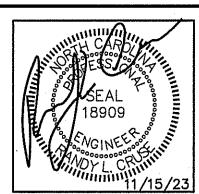
VOLTS: <u>120/240</u>

SCHEDULE:

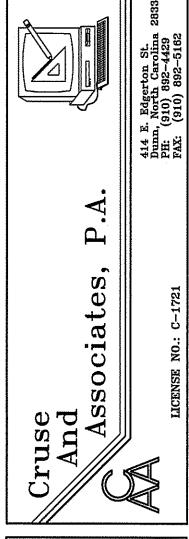
AMPS: 400



ELECTRICAL RISER DIAGRAM NOT TO SCALE



**REVISIONS** 



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DATE 11-15-23 DRAWN BY BAM JOB NO. 23-31

SHEET NO.