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STORAGE S-1 MODE PARKING ACCESSORY OCCUPANCY CLASSIFIC NCIDENTAL USES(TABLE 509): PECIAL USES(CHAPTER 4-LIST CO	⊠ R-2 □ R-3 □] R-4			
ACCESSORY OCCUPANCY CLASSIFIC NCIDENTAL USES(TABLE 509): PECIAL USES(CHAPTER 4—LIST C	DERATE □ S-2 LOW	V ☐ HIGH-PILED			
NCIDENTAL USES(TABLE 509):	GARAGE OPEN	□ ENCLOSED AND MISCELLANEOUS	☐ REPAIR GARAGE		
NCIDENTAL USES(TABLE 509):					
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□ NON-SEPARATED U	OCCUPANCIES	ED TYPE OF CONSTRUCT HE HEIGHT AND AREA LI S TO THE ENTIRE BUILD DN, SO DETERMINED, SH	IMITATIONS FOR EACH DING. THE MOST RES	H OF THE APPLICA STRICTIVE TYPE OF	ABLE
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STORY NO. DESCRIF	USE BLDG AREA	I LUDEL DOO'S !	· · ·	(D) ALLOWABLE	•
	PER STOR (ACTUAL)			PER STORY OR UNLIMITED ^{2,3}	
1 APART	MENT 1200	7000	_	7000	
1 EDONTAGE ADEA MODELLE	EDOM CECTON 355	ARE COMPUTED THE		***************************************	
¹ FRONTAGE AREA INCREASES A. PERIMETER WHICH FRO	S FROM SECTION 506.2 / ONTS A PUBLIC WAY OR		20 FEET MINIMUM WI	DTH = (F)	
B. TOTAL BUILDING PERIM	METER =(<u></u>	
	OF PUBLIC WAY =	/4/\			
E. PERCENT OF FRONTAG ² UNLIMITED AREA APPLICABL	E INCREASE I. = 100FF		4.		

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

ALLOWABLE HEIGHT									
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹						
BUILDING HEIGHT IN FEET (TABLE 504.3) ²	FEET <u>40</u>	13'-9"							
BUILDING HEIGHT IN STORIES (TABLE 504.4)3	STORIES 1	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 DROTECTION REQUIREMENTS

0 0 0 0 0	RATING PROVIDED (W/ * REDUCTION)	AND SHEET #	FOR "RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
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	- 4 HR	4 HR —	 4 HR		

*INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>10'	UP/S	45%	18.5%

LIFE SAFETY SYSTEM REQUIREMENTS:

LIFE SAFETY PLAN REQUIREMENTS:

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

⋈ NO
☐ YES EMERGENCY LIGHTING: ☑ NO □ YES EXIT SIGNS: ☑ NO ☐ YES FIRE ALARM:

□ NO ☑ YES □ PARTIAL_____ SMOKE DETECTION SYSTEMS: ⊠ NO □ YES CARBON MONOXIDE DETECTION:

ACCESSIBLE DWELLING UNITS N/A

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

ACCESSIBLE PARKING-SEE SITE PLAN (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF	PARKING SPACES	# OF ACCESSIBL	# OF ACCESSIBLE SPACES PROVIDED					
UILL	REQUIRED	PROVIDED	REGULAR WITH 5'	VAN SPACES		ACCESSIBLE PROVIDED			
			ACCESS AISLE	132" ACCESS AISLE	B' ACCESS AISLE	PROVIDED			

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

SPACE	SPACE WATE MALE		WATERCLOSETS		TORIES	SHOWERS/ TUBS	DRINKING FOUNTAINS		KITCHEN SINK	CLOTHES WASHER	
USE			FEMALE	MALE	FEMALE	1000	REGULAR	ACCESS.			
APARTMENT	REQUIRED	(1) l	JNISEX	(1) L	JNISEX	1	N/A	N/A	1	1	
	PROVIDED	(1) (JNISEX	(1) L	INISEX	1	-	-	1	1	

SPECIAL APPRO	 	JURISDICTION,	DEPARTMENT	OF	INSURANCE,	osc,	DPI,	DHHS,	ICC,	ETC.,	DESCRIBE	BELOW)
	 											

	SNOW (I _S) _ SEISMIC (I _E) _	1.0 1.0		All construction must comply with currer and is subject to field inspection and ve	nt NC Building Codes	50	
LIVE LOADS:	ROOF MEZZANINE FLOOR	20.0 N/A 100	PSF PSF	Reviewed for Code Compliance	Barberte	Harnett county North Carolina	
GROUND SNOW LOAD:	10 PSF				·		
WIND LOAD:	BASIC WIND SPEED EXPOSURE CATEGORY	^	MPH (ASCE-	7)			•
SEISMIC DESIGN CA	TEGORY	□ A	□В	⊠ C □ D			
SPEC	IG SEISMIC DESIGN PAI IPANCY CATEGORY (TA TRAL RESPONSE ACCE E CLASSIFICATION (ASC DATA SO	BLE 1604.5) LERATION S DE 7):	-	⊠ II □ III .%g S ₁ <u>6.6</u> □ C ⊠ D ⊠ PRESUMPTIVE		□ F RICAL DATA	
BASIC	STRUCTURAL SYSTEM BEARING BUILDING MOMENT	WALL FRAME	☐ DUAL !	N/SPECIAL MOMENT N/INTERMEDIATE R/C ED PENDULUM		STEEL	
	YSIS PROCEDURE IITECTURAL, MECHANICA	SIMPLIFII AL, COMPONEN		EQUIVALENT LATERAL D? □ YES □ N		☐ DYNAMIC	
LATERAL DESIGN C	ONTROL: EARTH	IQUAKE 🗆	W	ND 🖾			
	TEST (PROVIDE COPY		DRT)	PSF			
	IMPTIVE BEARING CAPA SIZE, TYPE, AND CAPA						
F PERFORMANCE METHOD, ST. PROPOSED DESIGN. EXISTING BUILDING ENVELOPE EXEMPT BUILDING NO [PE COMPLIES WITH C	DDE: NO	YES (THE	REMAINDER OF THI			
							AAAAA
METHOD OF COMPLIANCE: EN	ERGY CODE PERFO			PRESCRIPTIVE PRESCRIPTIVE			
OTHER: PERFORMANCE (SF	ECIFY SOURCE)		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
THERMAL ENVELOPE (PRESCRIF	PTIVE METHOD ONLY)						
ROOF/CEILING ASSEMBLY (E/ DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM R-VALUE OF INSULATION: SKYLIGHTS IN EACH ASSEM	PRE-FA BLY: 0.024 R-42 BLY ROOF		D TRUSS/AS	PHALT SHINGLE		AMERICAN SOCIEDA SOCIE	
U-VALUE OF SKYLIGHT: TOTAL SQUARE FOOTAGE C	0.60 F SKYLIGHTS IN EACH	ASSEMBLY	N/A				
EXTERIOR WALLS (EACH ASS DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM R-VALUE OF INSULATION: OPENINGS (WINDOWS OR DO U-VALUE OF ASSEMBLY PROJECTION FACTOR	$\begin{array}{c} \text{WOOD STUD,} \\ \text{IBLY:} & 0.05 \\ \hline \text{R-20} \\ \text{DORS WITH GLAZING)} \end{array}$	DOUBLE PA	ANE, METAL I	AIN COEFFICIENT: _	ANK SIDING N/A 7 MIN.		
WALLS BELOW GRADE (EACH DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM	N/A		-VALUE OF IN		N/A		
FLOORS OVER UNCONDITIONE DESCRIPTION OF ASSEMBLY U-VALUE OF TOTAL ASSEM	D SPACE (EACH ASSE	MBLY)	-VALUE OF IN				
FLUUR SLAB UN GRADE DESCRIPTION OF ASSEMBLY R-VALUE OF INSULATION: U-VALUE OF TOTAL ASSEM HORIZONTAL / VERTICAL R SLAB HEATED ?	R-10 BLY 0.10	ADE N/A				<u></u>	

STRUCTURAL DESIGN

DESIGN LOADS:

SUMMARY:

ENERGY CODE: 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE BUILDING CODE: 2018 NORTH CAROLINA STATE 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 CONSTRUCTION: V-B

OCCUPANCY: R-2

ELECTRICAL SUMMARY - SEE SHEET E-2 OF 2 MECHANICAL SUMMARY - SEE SHEET M-1 OF 1

PLUMBING SUMMARY - SEE SHEET P-1 OF 1

ACCESSIBILITY CODE:

BD-1 OF 1 APPENDIX B

LS-1 OF 1 LIFE SAFETY PLAN PROPOSED FLOOR & FOUNDATION PLAN F-1 OF 3

F-2 OF 3 ROOF FRAMING TRUSS DRAWINGS & WALL SECTION

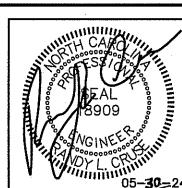
F-3 OF 3 **ELEVATIONS**

SUPPLY & WASTE PIPING PLAN P-1 OF 1

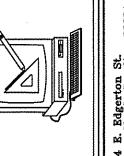
M-1 OF 1 MECHANICAL HVAC PLAN

E-1 OF 2 ELECTRICAL LIGHTING & POWER PLAN E-2 OF 2

ELECTRICAL NOTES RISER DIAGRAM & PANEL SCHEDULE



REVISIONS



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DATE 05-30-24 DRAWN BY BAM JOB NO. 24-28

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)

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 (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

CVIT MENTI

			EXIT	WIDTH					
USE GROUP OR SPACE DESCRIPTION	(a)	(b)		(c))		EXIT WE	TH (in)	
of Not begoni non	AREA ¹ SQ. FT.	AREA 1 PER OCCUPANT (TABLE	CALCULATED OCCUPANT LOAD	EGRESS PER OCC (TABLE	CUPANT	REQUIRE (SECTION (a/t	D WIDTH 1005.1)) x c	ACTUAL SHOW PLA	N ON
		1004.1.2)	(a/b)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
APARTMENT	1200	200 GROSS		N/A	.2	N/A	1.2"	N/A	47"
TOTAL							,		

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 THE TOTAL REQUIRED (SECTION 1005.5)

6. ASSEMBLY OCCUPANCIES (SECTION 1029)

EXIT REQUIREMENTS:

		NUMB	EN AND ARRAN		EXITS			
FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NO. OF 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		
APARTMENT	1	1	75'	56'-11"	N/A			

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)

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

1 35" CLEAR WIDTH DIVIDED BY .2" = 175 OCCUPANTS CALCULATED OCCUPANCY PER EXIT = 6 PEOPLE CALCULATED OCCUPANCY DOES NOT EXCEED MAXIMUM CAPACITY OF EXIT.

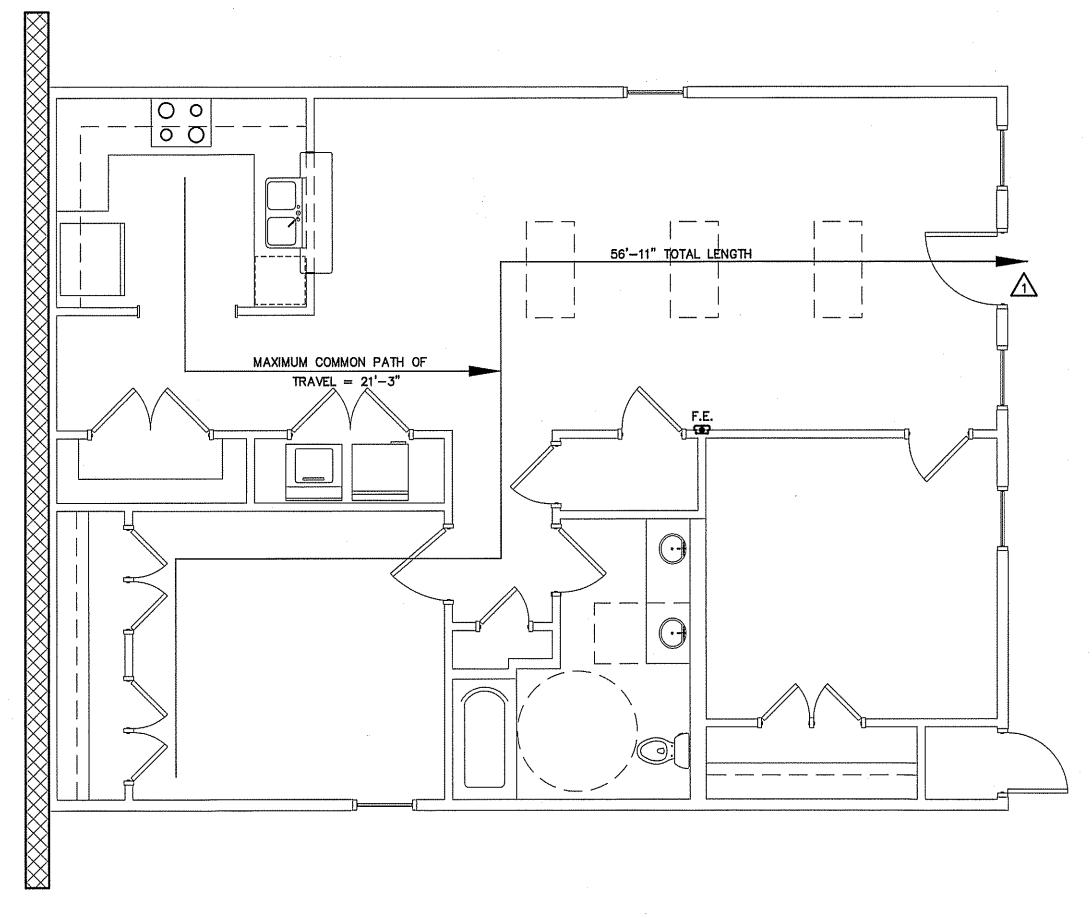
AREA/ROOM/SPACE DESIGNATIONS USED ON LIFE SAFETY PLANS ARE EXCLUSIVE TO LIFE SAFETY PLAN ONLY, AND ARE NOT INDICATIVE OF ANY ACTUAL SPACE DESIGNATIONS USED ELSEWHERE.

LEGEND

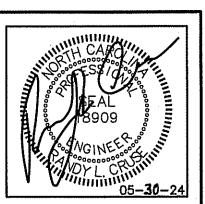
F.E. FIRE EXTINGUISHER AND CABINET CLASS ABC 10 POUNDS

LIFE SAFETY PLAN NOTES:

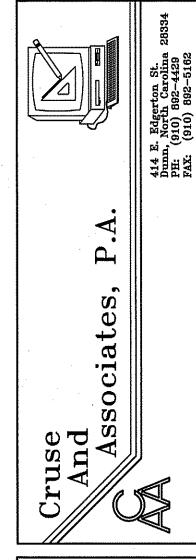
- 1. SEE LEGEND FOR RATED WALLS.
- 2. ALL ASSUMED AND REAL PROPERTY LINES ≥10'
- 3. ALLOWED; APARTMENT UP/S = 45% ACTUAL; 11.0% < ALLOWED 45%
- 4. NO DEAD ENDS; 20' ALLOWED
- 5. NO RATING REQUIRED FOR THIS STRUCTURE. 6. PANIC HARDWARE NOT REQUIRED.
- 7. NO DELAYED EGRESS LOCKS, ELECTROMAGNETIC LOCKS, HOLD OPEN DEVICES, OR EMERGENCY ESCAPE WINDOWS
- 8. BUILDING LESS THAN 12,000 SQ. FT. AREAS DO NOT EXCEED CODE ALLOWANCE.
- 9. BUILDING MEETS CODE REQUIREMENTS WITHOUT SUBDIVISION INTO SMOKE COMPARTMENTS; NO SMOKE COMPARTMENTS



LIFE SAFETY PLAN-APARTMENT
SCALE: 1/4" = 1'-0"



REVISIONS

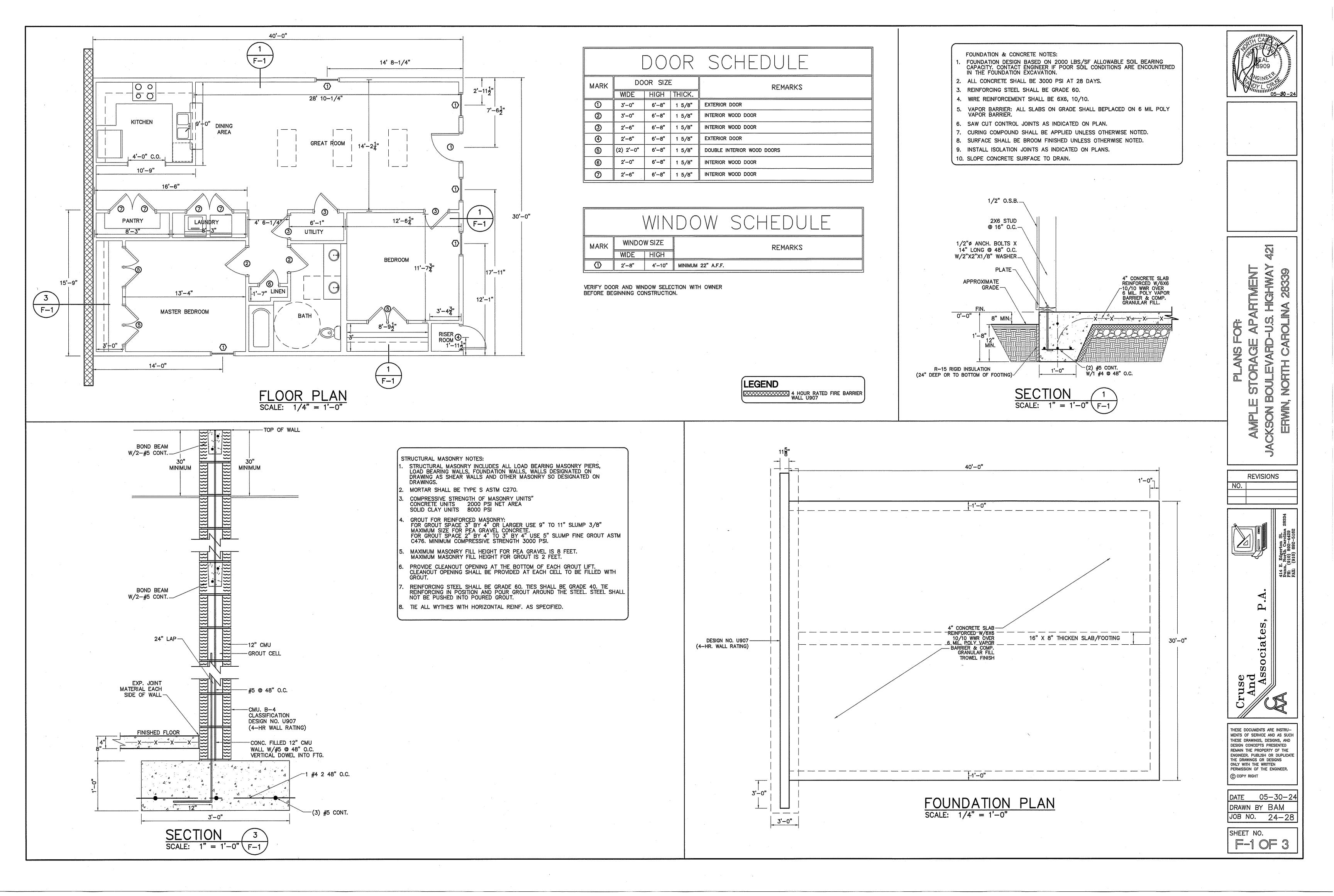


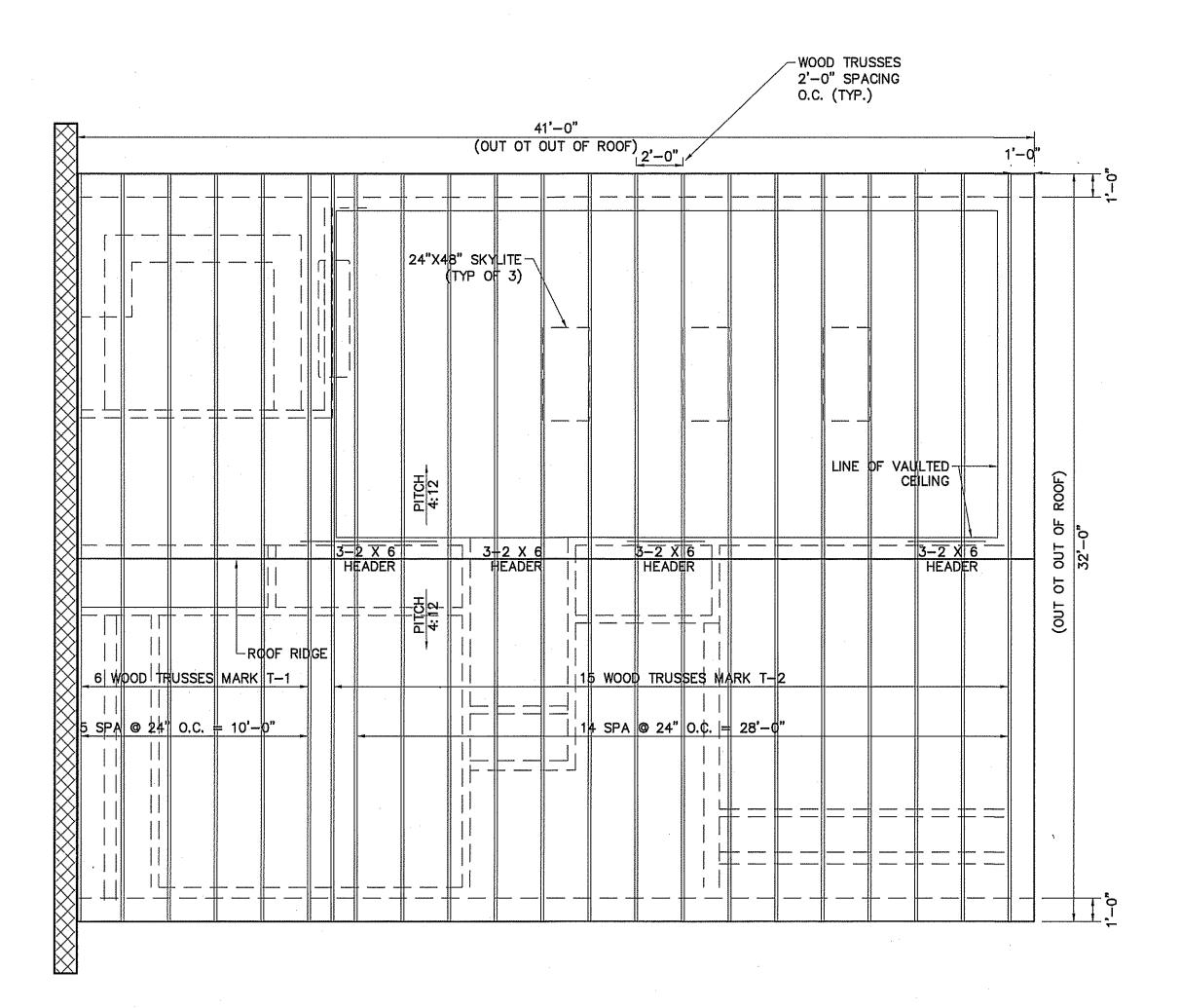
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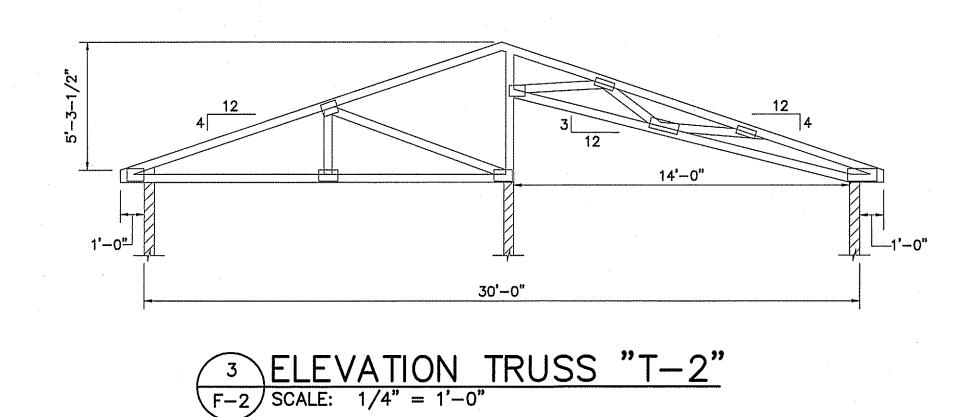
SHEET NO. LS-1 OF

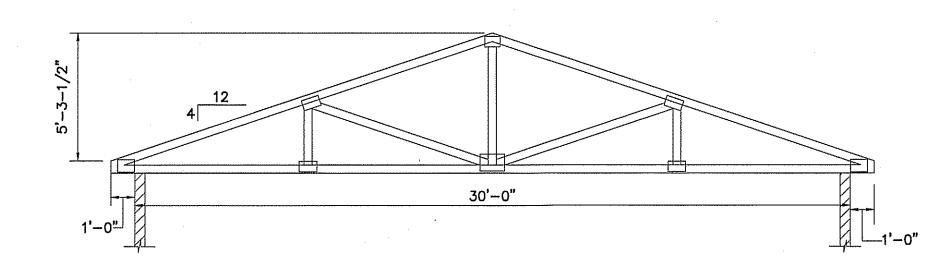
LEGEND 4 HOUR RATED FIRE BARRIER WALL U907





ROOF FRAMING PLAN





ELEVATION TRUSS "T-1" F-2 SCALE: 1/4" = 1'-0"

ROUGH CARPENTRY NOTES:

1. ROUGH CARPENTRY SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) "NATIONAL DESIGN SPECIFICATIONS FOR WOOD

CONSTRUCTION." 2. WOOD FRAMING MEMBERS PERMANENTLY EXPOSED TO THE WEATHER AND ALL SILL

PLATES AROUND THE BUILDING PERIMETER SHALL BE PERSERVATIVE-TREATED IN ACCORDANCE WITH THE SPECIFICATION. 3. UNLESS OTHERWISE NOTED, ALL NAILING FASTENERS SHALL CONFORM TO "FASTENING

SCHEDULE" OF THE NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION. 4. CONSTRUCTION PANELS SHALL COMPLY WITH PS I "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" FOR PLYWOOD CONSTRUCTION PANELS AND

THE FOLLOWING REQUIREMENTS: A) EXTERIOR WALL AND SHEARWALL WALL SHEATHING: 1/2", APA RATED SHEATHING, EXTERIOR EXPOSURE I EXPOSURE DURABILITY CLASSIFICATION. B) ROOF SHEATHING: 1/2" APA RATED SHEATHING, EXTERIOR EXPOSURE DURABILTIY

CLASSIFICATION. 5. WOOD FRAMING SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: A) MOISTURE CONTENT - SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT.

B) GRADE - NO. 2 SPF 6. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS. PROVIDE MULTIPLE STUDS AS INDICATED ON THE PLANS.

7. PROVIDE HEADERS OF THE SAME CROSS SECTION AS JOISTS OR RAFTERS TO FRAME AROUND ALL OPENINGS TO SUPPORT SHEATHING.

B. ATTACH BLOCKING AND NAILERS TO FRAMING USING ¾6" DIAMETER POWDER ACTUATED FASTENERS AT 24" ON CENTER OR 1/2" DIAMETER BOLTS AT 48" ON CENTER STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.

FIELD VERIFY ALL DIMENSIONS

PRE-ENGINEERED AND MANUFACTURED

WOOD ROOF TRUSSES, 24" O.C.,

BUILDING CODES AND SEALED BY

DESIGNED IAW CURRENT NC

NC LICENSED ENGINEER.

BEFORE ORDERING TRUSSES.

PREFABRICATED WOOD TRUSS NOTES;

1. PREFABRICATED METAL—PLATE—CONNECTED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND THE TRUSS PLATE INSTITUTE (TPI) "DESIGN SPECIFICATIONS FOR METAL-PLATE-CONNECTED WOOD TRUSSES.

2. WOOD TRUSS DESIGN LOADS SHALL BE AS FOLLOWS:

A) TOP CHORD LOADING: LIVE LOAD = 20 PSF

DEAD LOAD = 10 PSF (PLUS ADDITIONAL 5 PSF AT SUPERIMPOSED ROOF FRAMING AREAS). WIND LOAD = NET UPLIFT REACTIONS, USE MAXIMUM RESISTING DEAD LOAD = 9 PSF TOTAL. B) BOTTOM CHORD LOADING:

LIVE LOAD = AS REQUIRED BY NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION. DEAD LOAD = 10 PSF

TRUSS DESIGN BASED ON BOTTOM CHORD IS NOT BRACED BY THE CEILING. 3. SUBMIT SHOP DRAWINGS AND CALCULATIONS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN TEH STATE OF NORTH CAROLINA FOR THE DESIGN OF PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES. DESIGN INFORMATION SHALL INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTION STRUCTURE. PROVIDE TRUSS UPLIFT REACTIONS FOR WIND FORCES SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO LOADS SHALL BE CONSIDERED IN THE DESIGN. THE CONTRACTOR SHALL PROVIDE TRUSS LAYOUT DRAWINGS SEALED BY A PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL. INCLUDE ALL TRUSS SPLICE

DETAILS AND TRUSS TO TRUSS CONNECTION DETAILS. 4. WOOD TRUSS FRAMING MEMBERS SHALL COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER

STANDARD" AND THE FOLLOWING REQUIREMENTS: A) SPECIES - SOUTHERN PINE GRADED UNDER SPIB RULES.

B) GRADE - NO. 2 MIN. C) MOISTURE CONTENT - SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT.

D) SIZE - TOP AND BOTTOM CHORDS MINIMUM 2x6 WEBS - SIZE AS REQUIRED. 5. WHERE MULTIPLE TRUSSES ARE INDICATED, SCAB TRUSS MEMBERS TOGETHER WITH 16d NAILS AT 12" ON CENTER, OR AS INDICATED ON TRUSS SHOP DRAWINGS. PROVIDE SAME NUMBER OF SUPPORT

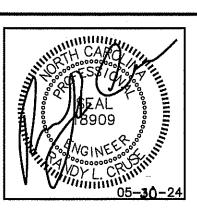
STUDS AS NUMBER OF MULTIPLE TRUSS PLIES. 6. TRUSS MANUFACTURER MAY USE ALTERNATIVE TRUSS WEB CONFIGURATIONS SUBJECT TO APPROVAL

7. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION OF THE TRUSSES, OR AS RECOMMENDED BY THE MANUFACTURER. THE GUIDELINES SET FORTH IN THE TRUSS PLATE INSTITUTE PUBLICATION "BRACING WOOD TRUSSES, COMMENTARY AND RECOMMENDATIONS" SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS.

8. METAL CONNECTOR PLATES SHALL COMPLY WITH ASTM A 446, GRADE A WITH COATING AS SPECIFIED. 9. METAL FRAMING ANCHORS SHALL COMPLY WITH ASTM A 446 GRADE A (STRUCTURE QUALITY). OR MANUFACTURER'S PUBLISHED LOADS FOR REFERENCED ITEMS.

METAL ROOF PRE-ENGINEERED TRUSSES 5/8" PLYWOOD R-42 BATT INSULATION - JUNIOUS VINYL CLAD FASCIA BOARD VENTED VINYL SOFFIT R-20 BATT INSULATION--HARDI--PLANK SIDING 2X6 BLOCKING-VAPOR BARRIER (TAPE ALL JOINTS) 1/2"GYPSUM BOARD 2X6 @16" O.C. COVE BASE-1/2"X14"AB 48" OC VCT FLOORING 2X6 PRE-TREATED PLATE MONOLITHIC SLAB W/ (2) #5 CONTINOUS AND #4 TIES 48" O.C. 6X6/W1.4-W1.4 WWM 3000 PSI CONCRETE R-15 RIGID INSULATION —24" MIN.





REVISIONS

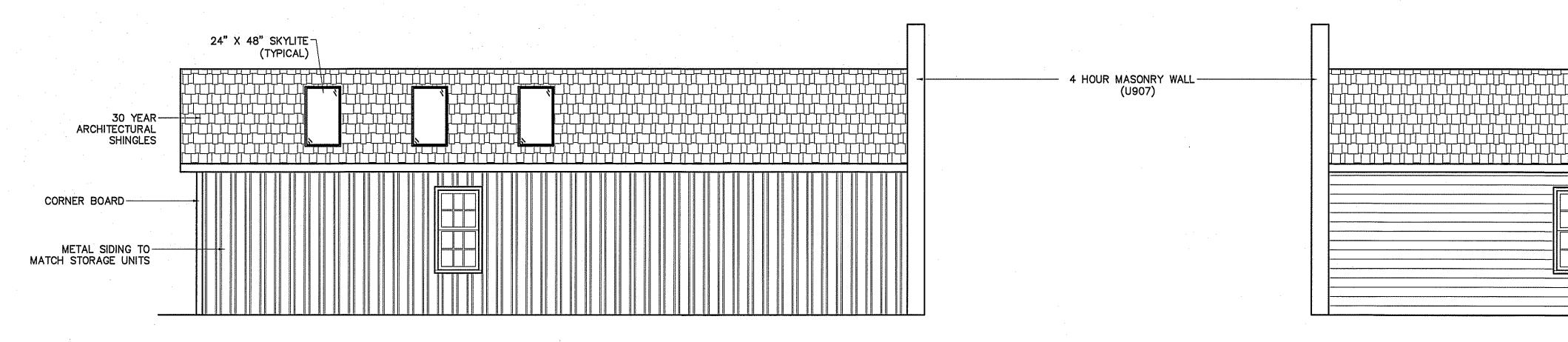
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F-2 OF 3

VERIFY ALL EXTERIOR COLORS AND FINISHES WITH OWNER BEFORE BEGINNING CONSTRUCTION.

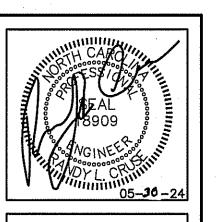




REAR ELEVATION

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

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



REVISIONS

sociates, - CORNER BOARD

30 YEAR
ARCHITECTURAL
SHINGLES

HARDIPLANK SIDING

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DATE 05-30-24 DRAWN BY BAM JOB NO. 24-28

PLUMBING FIXTURE SCHEDULE										
MARK	MAKE	MODEL	DESCRIPTION	NOTES						
P-1	AMERICAN STANDARD	CADET 207AA.104 EL 1.6/PA 16.5"HC ELONGATED WATER CLOSET WHITE 5214.210 SEAT								
P-2	AMERICAN STANDARD									
P-3	TUB/SHOWER TUB & SURROUND BY G.C. SHOWER & TUB FILLER WITH DIVERTER, DRAIN & PRESSURE BALANCE MIXING VALVE BY PLUMBING CONTRACTOR									
P-4	-4 STAINLESS STEEL DOUBLE BOWL SINK; SINGLE LEVER SWING SPOUT FAUCET, ADA COMPLIANT									
P-5	-5 WASHING MACHINE SUPPLIED BY G.C. AND INSTALLED BY PLUMBER									
P-6	2-6 4500 WATT ELECTRIC 50 GALLON WATER HEATER									
P-7	P-7 DISHWASHER SELECTED AND PURCHASED BY G.C. AND INSTALLED BY PLUMBER									
P-8	WOODFORD	WOODFORD MOD-65 HOSE BIB FREEZE PROOF ANTI-SIPHONING WITH VACCUM BREAKER, SELF DRAINING.								

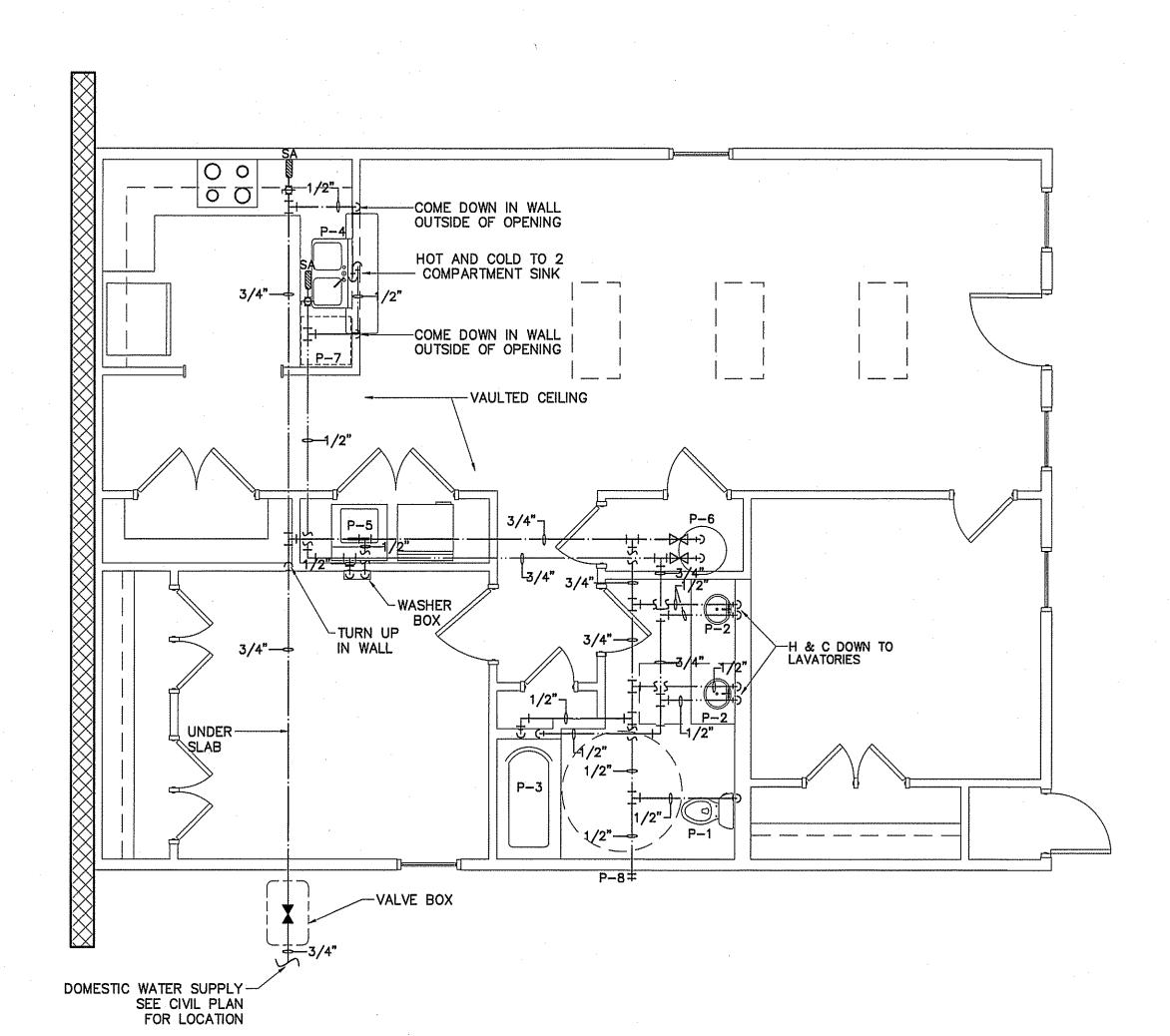
^{*} VERIFY ALL FIXTURES WITH OWNER BEFORE PURCHASE OR INSTALLATION

ITEM	# OF	FIXTURE	UNITS	(EACH)	FIXTURE	UNITS	(TOTAL)	FIXTURE UNITS
L	# 0	COLD	HOT	TOTAL	COLD	HOT	TOTAL	
FLUSH TANK WATER CLOSET	1	5.0	•••	5.0	5.0		5.0	6/6
BATH/SHOWER	1	1.0	1.0	1.4	1.0	1.0	1.4	2/2
LAVATORY	2	1.5	1.5	2.0	3.0	3.0	6.0	2/4
WASHING MACHINE	1	2.25	2.25	3.0	2.25	2.25	3.0	2/2
2 COMP. SINK	1	3.0	3.0	4.0	3.0	3.0	4.0	5/5
N.F.H.B.	1	1.5	_	1.5	1.5		1.5	

MINIMUM OF 3/4" WATER LINE

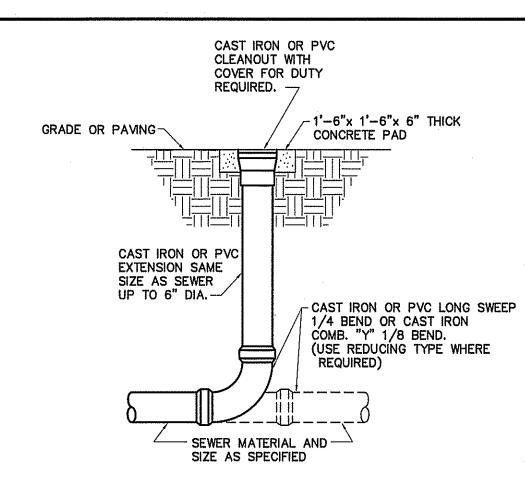
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PLUMBIN	G COI	NNECT	ION SC	HEDULE
FIXTURE	C.W.	H.W.	WASTE	VENT
FLUSH VALVE WATER CLOSET	3/8		3"	2"
WASHING MACHINE	1/2"	1/2"	2"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
FLOOR DRAIN			3"	2"
BATH/SHOWER	1/2"	1/2"	2"	2"
HOSE BIBBS	1/2"	1/2"		
KITCHEN SINKS	1/2"	1/2"	3"	2"

——+) ——-CO	ME DO	NWC	IN	WALL
OU	TSIDE	OF	OPE	ENING



PLUMBING SUPPLY PIIPNG PLAN

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

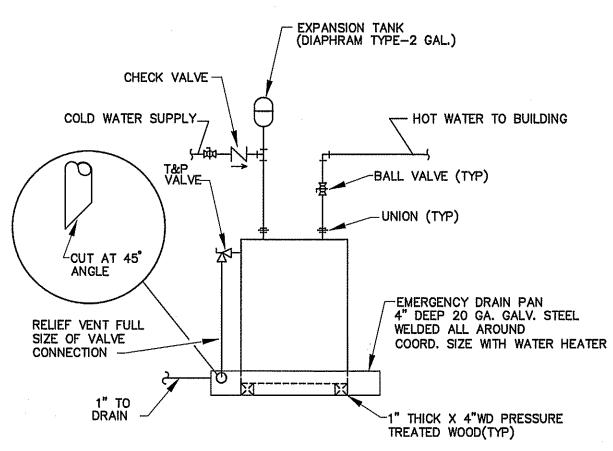


DETAIL-CLEAN OUT AT GRADE

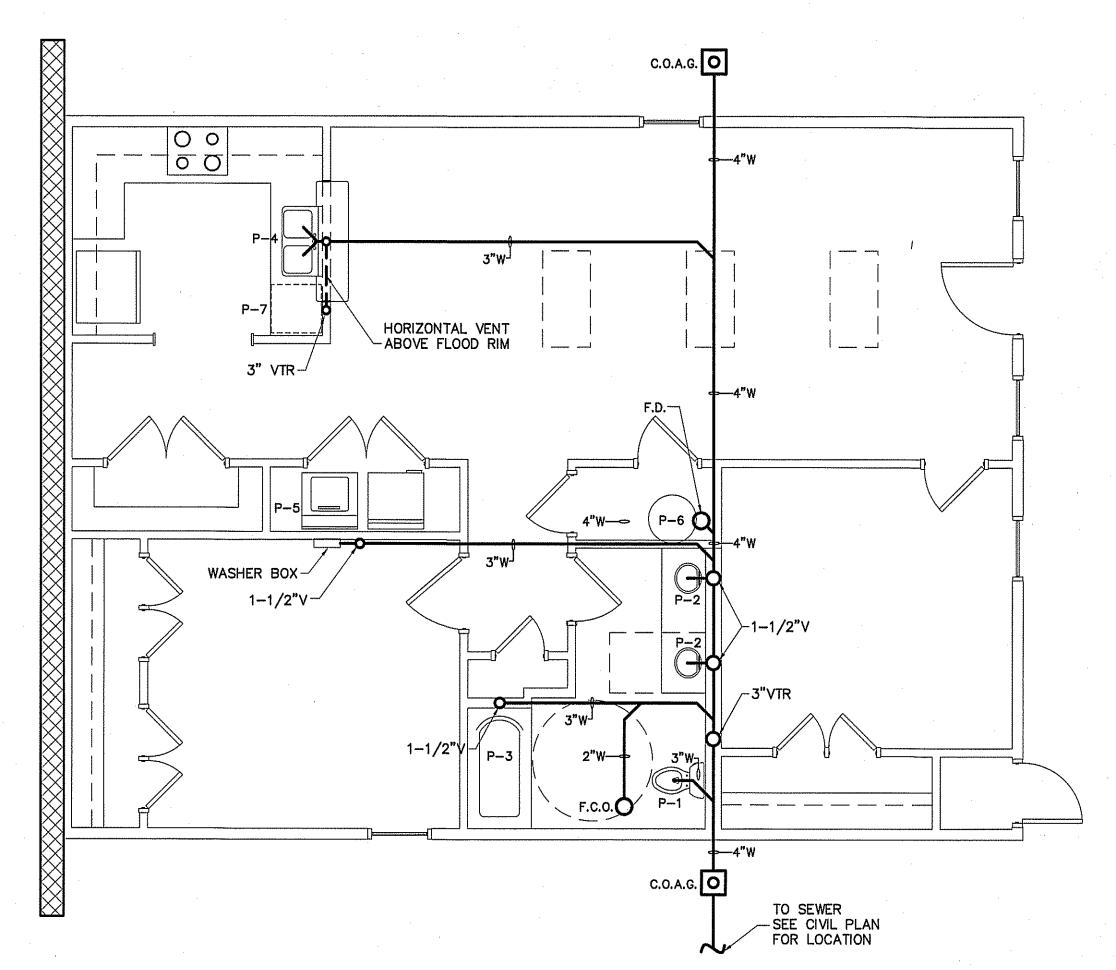
NOT TO SCALE

LEGEND

4 HOUR RATED FIRE BARRIER WALL U907



DETAIL-WATER HEATER
NOT TO SCALE

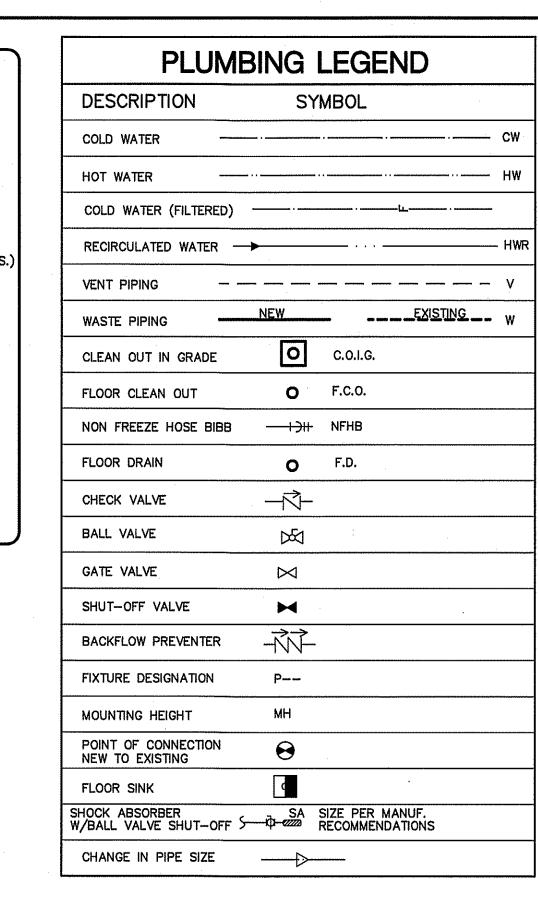


PLUMBING WASTE & VENT PIPING PLAN SCALE: 1/4" = 1'-0"

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 COV
- 10. DOMESTIC WATER SUPPLY PIPING SHALL BE CPVC.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.



CARO SSI DOS SILILIA B909

OS NELSONO

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OF CRIMINITY OS—36 -24

AMPLE STORAGE APARTMENT CKSON BOULEVARD-U.S. HIGHWAY 4, ERWIN, NORTH CAROLINA 28339

REVISIONS NO.

Cruse
And
Associates, P.A.

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DATE 05-30-24

DRAWN BY BAM

JOB NO. 24-28

SHEET NO.
P-1 OF 1

MECHANICAL SY	MBOL LEGEND		
SINGLE LINE DOUBLE LINE DESCRIPTION	SINGLE LINE DOUBLE LINE DESCRIPTION	SINGLE LINE DOUBLE LINE DESCRIPTION	·
TAKE OFF TO SUPPLY AIR REGISTER WITH EXT. INSUL. DUCTWORK	VOLUME CONTROL DAMPER (TYP) CEILING DIFFUSER FLEXIBLE DUCTWORK (14' MAX.)	SUPPLY AIR CEILING DIFFUSER, ARROW INDICATES DIRECTION OF BLOW & ACTIVE DIFFUSER SIDES	ELECT. DUCT INSERT HEATER WITH CONTROL PANEL
BRANCH TAKEOFF FROM MAIN TRUNK DUCT WITH EXT. INSUL. DUCTWORK	ONE SIDED REDUCING TRANSITION	(1)CUSHION HEAD ® BRANCH (2)CUSHION HEAD IS EQUAL TO 1-1/2 OR DIFFUSER RUNOUT WIDTH OF THE BRANCH DUCT OR DIFFUSER RUNOUT	AHU W/FLEXIBLE CONNECTION AT SUPPLY AND RETURN DUCT
END CAP	F.D.(1-1/2) F.D.(1-1/2) F.D.=FIRE DAMPER (1-1/2)=RATED FOR 1-1/2 HRS.	R.A. OR EXHAUST DUCT TURNS DOWN @ 90 DEGS.	KEY NOTE
O OR OD - DUCT SMOKE DETECTOR	RETURN AIR OR EXHAUST GRILLE	MANUAL VOLUME CONTROL DAMPER W/ QUADRANT LOCKING DEVICE	MARK CFM-DIFFUSER, REGISTER OR GRILLE (SEE SCHEDULE)
A.D. = DOOR SIZE DUCT HEIGHT 8X8 10" 10X10 12" 12X12 14" & LARGER	TWO SIDED TRANSITION	Two sided transition	① = EXHAUST FAN

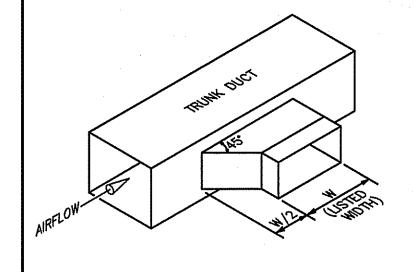
NOTE:

VERIFY THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLING.

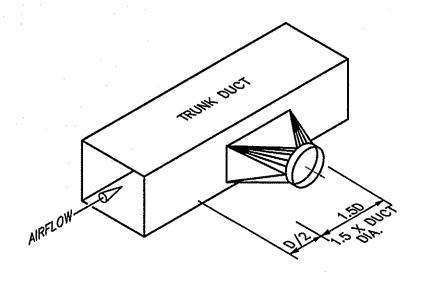
GENERAL NOTE:

MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FOR ALL HVAC EQUIPMENT.

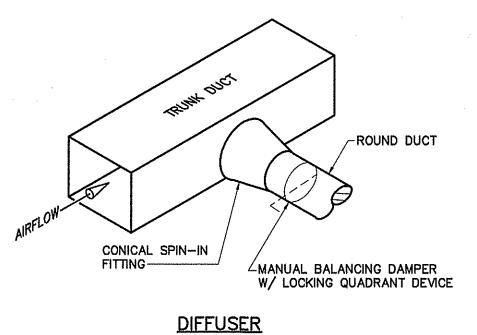
	AIR HANDLER UNIT									SPLIT SYSTEM HEAT PUMP UNITS															
AHU NO.	MANUFACTURER	MODEL	VOLTAGE	E.S.P.	OUTSIDE AIR (CFM)	СГМ	UNIT FLA	REF L	INES SE	HTR KW (240)	CAPACI TOTAL	OLING TY (MBH) SENS.	HEA CAPACIT	TING TY (MBH) LOW	HSPF	MIN. CIRC. AMPACITY	M.O.C.P.	MARK	MANUF.	MODEL	VOLTAGE	# COMP.	MIN. CIRC. AMPACITY	M.O.C.P.	UNIT FLA.
AHU-1	TRANE	TEM6A0B24H21	240/1ø/60	.46	100	800	32.0	3/4*	3/8* 16	7.68	24.2	18.1	22.0		9.0	43	45	HP-1	TRANE	4TWR6024N1000A	240/1/60	1	15	25	12.4



RECTANGULAR



ROUND



	REGISTER, GRILLE, & DIFFUSER SCHEDULE***									
MARK	DESCRIPTION	MAX. NC	SIZE	MODULE SIZE	BORDER TYPE	MATERIAL	FINISH	MANUFACTURER	MODEL NUMBER	ACCESSORIES / NOTES
A	SUPPLY	30	10X8	NA	SURFACE MOUNT	STEEL	WHITE	HART & COOLEY	631	
В	SUPPLY	30	12X16	NA	SURFACE MOUNT	STEEL	WHITE	HART & COOLEY	821	
R1	RETURN GRILLE	30	18X18	NA	SURFACE MOUNT	STEEL	WHITE	HART & COOLEY	RH45	PROVIDE THROW-AWAY FILTER

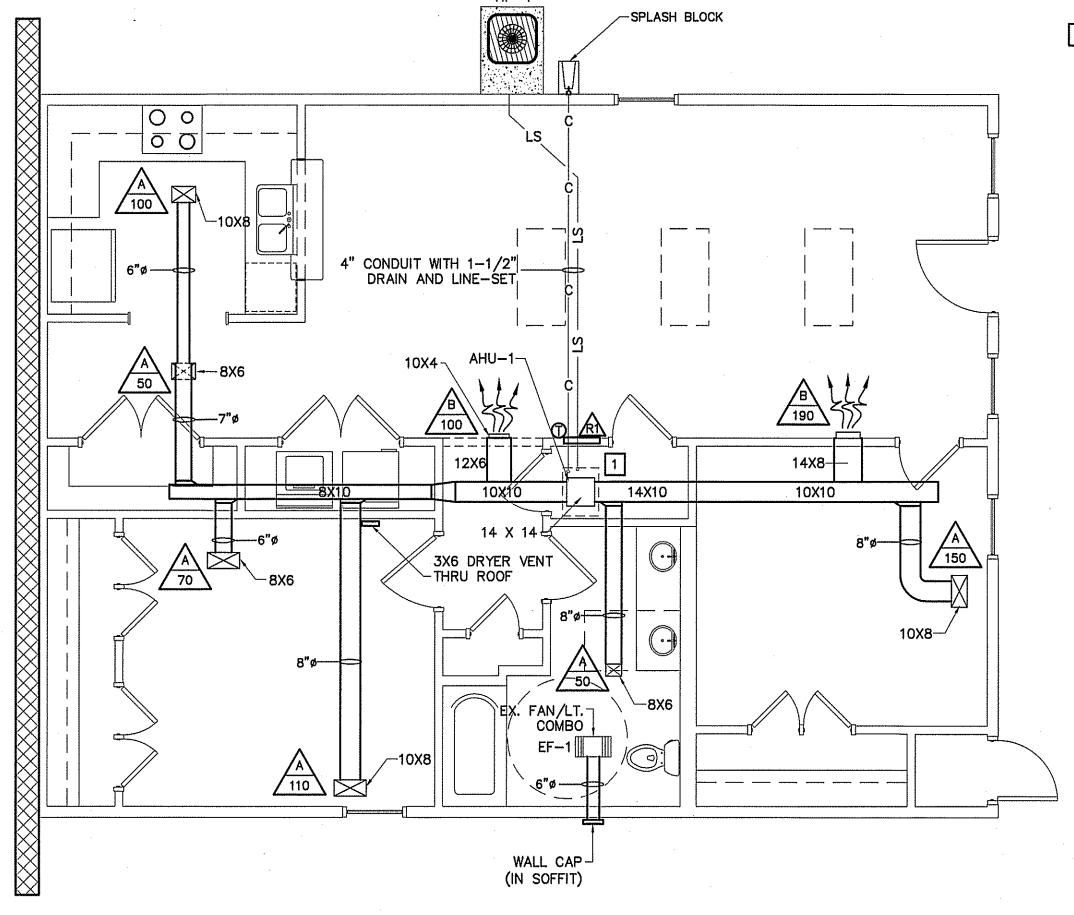
*** FIELD VERIFY ALL CAVITY SIZES TO DETERMINE IF TOP MOUNT OR SIDE MOUNT PLENUMS ARE REQUIRED. CUSTOM PLENUMS REQUIRED WHERE FRAMING LIMITS SPACE.

TYPICAL LATERAL TO REGISTER OR BRANCH DUCT

NOT TO SCALE

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.
- DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE RUNOUTS SHALL NOT EXCEED 15' AND SHALL NOT BE USED TO FORM ELBOWS. CONNECTIONS FROM RECTANGULAR TO ROUND DUCT SHALL BE MADE WITH MANUFACTURED 45 DEG. LATERAL TAPS.
- 3. SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH A MINIMUM THERMAL RESISTANCE OF R-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.
- . 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.
- 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.
- . ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE. 10. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS, UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL
- TURNING VANES. . MECHANICAL CONTRACTOR TO FIELD COORDINATE LOCATION OF MECHANICAL SYSTEMS WITH ELECTRICAL AND PLUMBING
- SYSTEMS. COORDINATE WITH ALL OTHER SYSTEMS AS NECESSARY.
- 2. MECHANICAL WORK INCLUDES DEMOLITION, RELOCATION, IN EXISTING & NEW WORK AS APPLICABLE. MECHANICAL CONTRACTOR TO SUPPLY A COMPLETE SYSTEM IN EACH AREA.



HVAC MECHANICAL HVAC PLAN
SCALE: 1/4" = 1'-0"

KEYNOTE:

PROVIDE 6" O.A. DUCT WITH MANUAL VOLUME DAMPER UP TO ROOF CAP.

METHOD OF COMPLIANCE:

PRESCRIPTIVE ☒ ENERGY COST BUDGET ☐

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 70 DEG. F.

SUMMER DRY BULB 75 DEG. F.

RELATIVE HUMIDITY 60%

BUILDING HEATING LOAD 3 MBH

BUILDING COOLING LOAD 2 TONS

MECHANICAL SPACE CONDITIONING SYSTEM

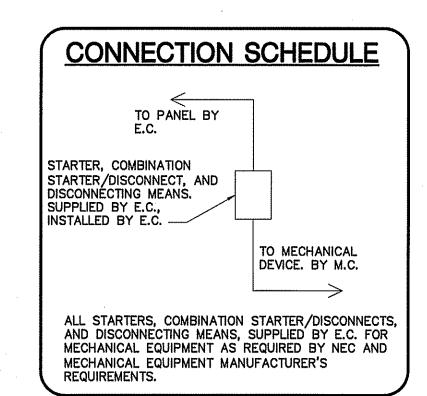
UNITARY - COOLING - 16.0 SEER HEATING - 9.0 HSPF

BOILER --- NOT APPLICABLE IN THIS PROJECT CHILLER-NOT APPLICABLE IN THIS PROJECT

LIST EQUIPMENT EFFICIENCIES

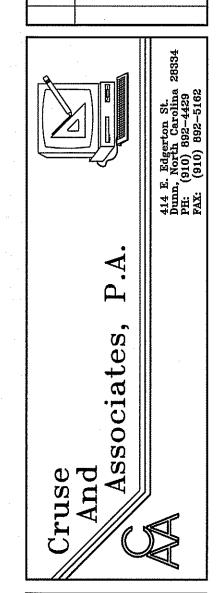
EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

MOTORS USED ON THIS PROJECT ARE INCLUDED IN THE EFFICIENCY RATING OF THE UNIT. SEE PLANS FOR EFFICIENCIES.



LEGEND 4 HOUR RATED FIRE BARRIER
WALL U907

REVISIONS

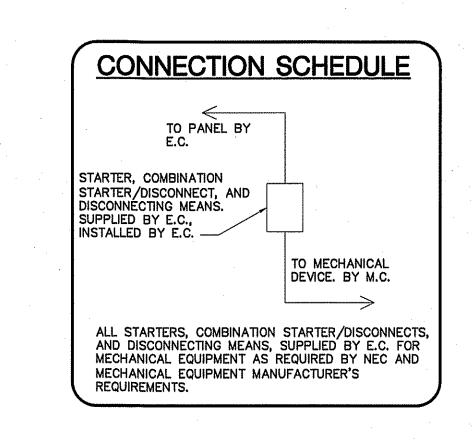


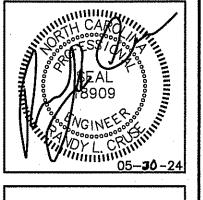
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05-30-24 DRAWN BY BAM JOB NO. 24-28

		LIGHT F	XTURE SCHEDULE (AP	ARTMEN	T)		
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	WATTAGE	REMARKS
Α	WRAPAROUND DIFFUSER	LITHONIA	11852	2-17W T8	1	34	VANITY LIGHT
В	CEILING MOUNTED TASKLIGHT	LITHONIA	11890RE	2-17W T8	1	34	
С	52" WHITE CEILING FAN/LT.	HARBOR BREEZE	E BDB52MWW5BC4	4FLE11		44	WITH LIGHT KIT
D	4' 2 LAMP FLUORESCENT	PORTFOLIO	APW-GPW232	2-32 T8	1	56	
E	LED CAN LIGHT	HALO	HALO 498W, 6" TRIM BAFFLE SLOPE CEILING TRIM W/WHITE COILEX BAFFLE	LED		15	H47ICAT HOUSING
F	EXHAUST FAN LIGHT COMBO	HARBOR BREEZE	80206	2-60W A15		120	INCLUDE 1 C7W NIGHT LIGHT BULB
G	NORMA SMALL 9" BLACK INCANDESCENT OUTDOOR WALL LIGHT	HUNTER	M11741	1-60 INC.		60	
Н	LED WALLPACK	LITHONIA	TWR1 LED 3 50K MVOLT ON TIMER	18 LEDS	LED	58.4	SEE SITE LIGHTING PLAN FOR OPTIONS & EXACT LOCATIONS

^{*} ALL FIXTURE SELECTIONS TO BE VERIFIED BY OWNER BEFORE PURCHASE. *





05-**30**-24

E STORAGE APARTMENT

BOULEVARD-U.S. HIGHWAY

N, NORTH CAROLINA 28339

REVISIONS NO.

ates, P.A.

414 E. Edgerton St.

Dunn, North Carolina 28334
PH: (910) 892-4429
FAX: (910) 892-5162

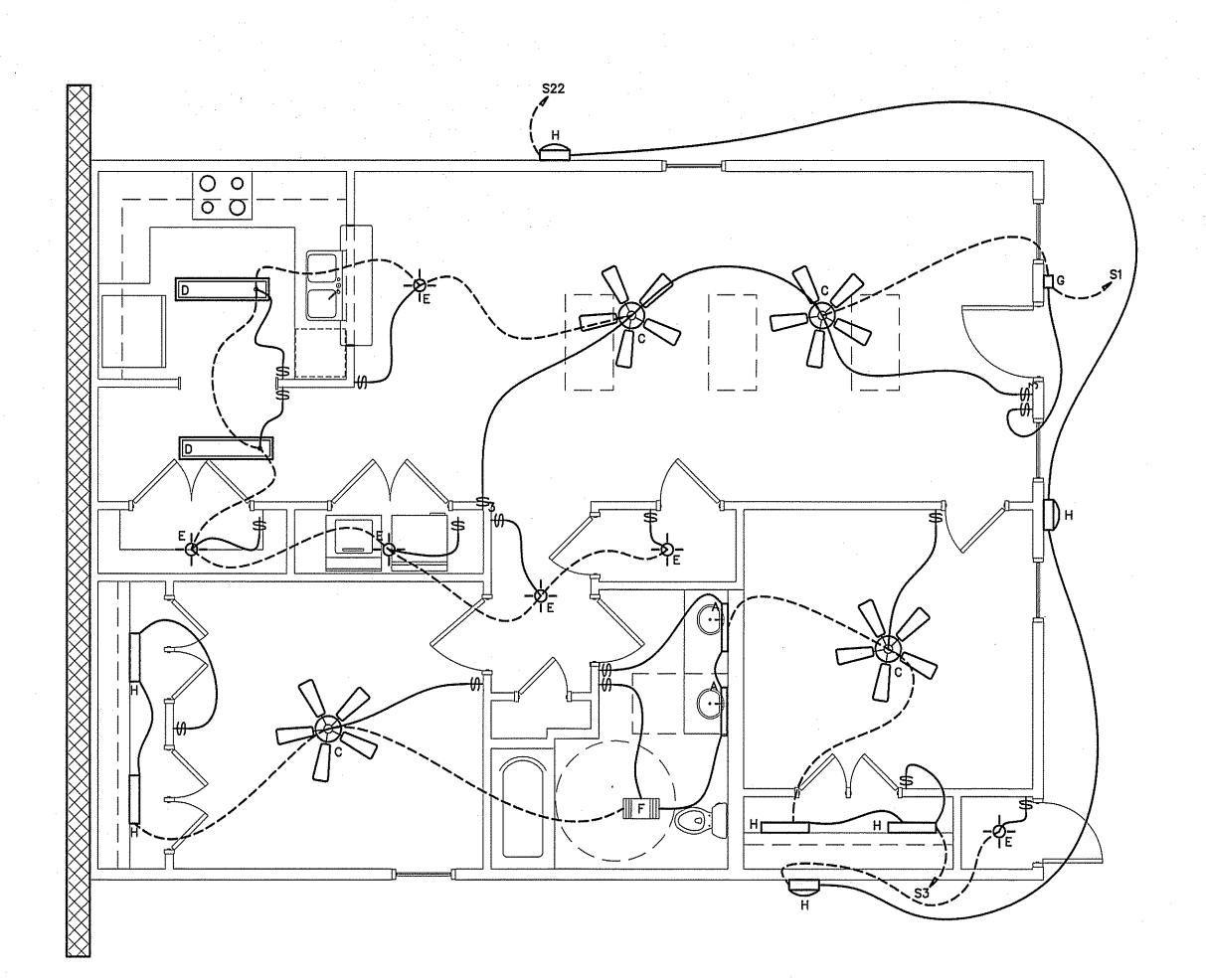
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DATE 05-30-24
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JOB NO. 23-28

SHEET NO. E-1 OF 2



EL	ECTRICAL	LIGHTING	PLAN	(APARTMENT)
SCAL	E: $1/4" = 1'-0"$			

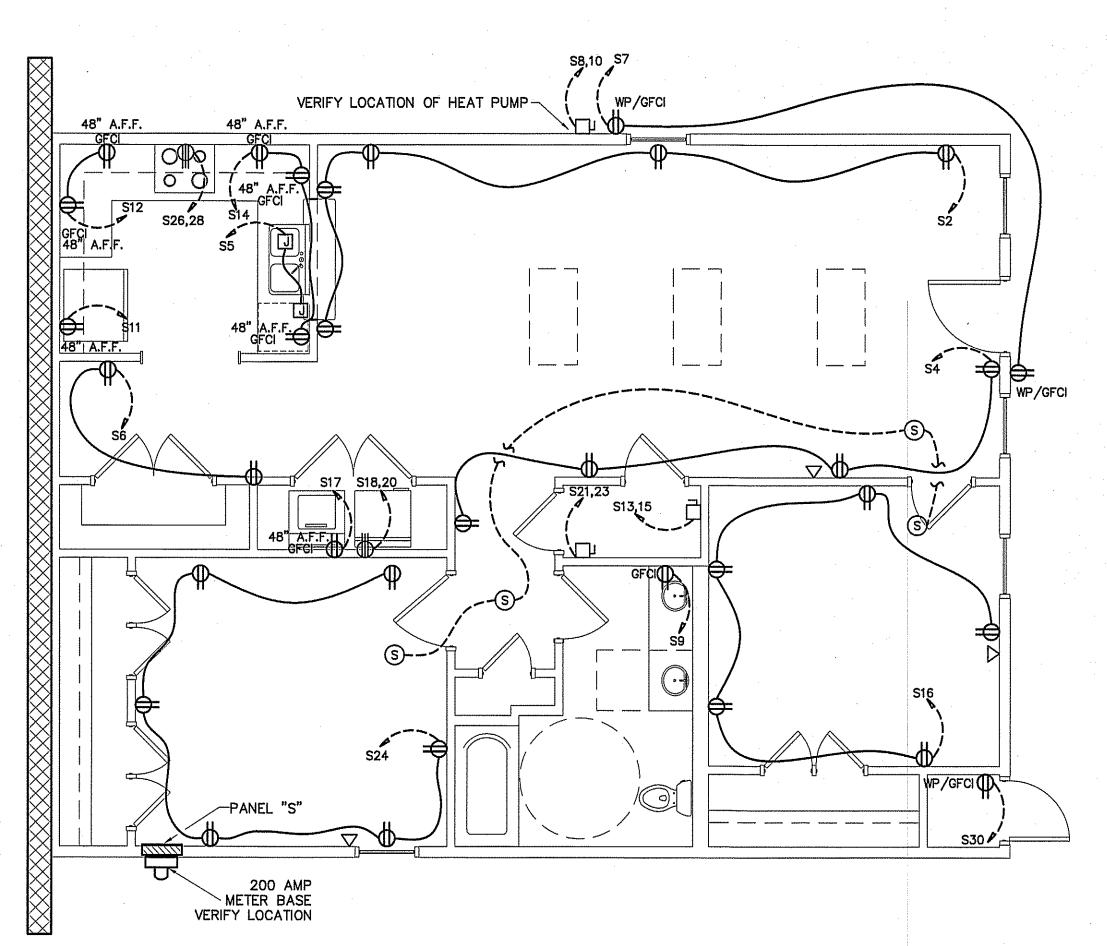
ELECTRICAL LEGEND								
MARK	DESCRIPTION							
#	QUAD RECEPTACLE							
ф	DUPLEX RECEPTACLE							
Π	SINGLE POLE SWITCH OR TIMER AS APPLICABLE							
÷	HIGH WALL MOUNTED DUPLEX RECEPTACLE APROXIMATELY 12" BELOW CEILING							
	FLUORESCENT FIXTURE							
₹ ⁷	SWITCHED BRANCH CIRCUIT							
~~	UNSWITCHED BRANCH CIRCUIT							
-	120/208 VOLT CIRCUIT							
\$,	MOTION DETECTING SINGLE-POLE SWITCH ON TIMER							
8	'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							
٥	TELEPHONE							
J	JUNCTION BOX							
Π	SINGLE POLE SWITCH OR TIMER AS APPLICABLE							
N/L	UNSWITCHED FIXTURE							
\$.	OCCUPANCY SENSING SINGLE-POLE SWITCH NOT ON TIMER							
₩	280V RECEPTACLE							
4	EMERGENCY LIGHT REMOTE WEATHERHEAD(S)							

LEGEND

WALL U907

LEGEND

WALL U907



ELECTRICAL POWER PLAN (APARTMENT)

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

ELECTRICAL LOAD CALCULATIONS			
		VA	
1200 SQ. FT. @ 3VA =		3600	
31 RECEPTACLES AT 180 VA		5580	
(2) 20A SMALL APPLIANCE CIRCUITS @ 150	OVA EAC		
LAUNDRY CIRCUIT		1500	
RANGE (NAMEPLATE RATING)		7900	
WATER HEATER		4500	
DISHWASHER		1200	
DRYER		4320	
TOTAL		31600	
-, -, -, -		7	
FIRST 10kVA @ 100%		10000	
REMAINDER OF LOAD @ 40%			
(21600VA X 0.4)		<u>8640</u>	
		18640	
HEAT PUMP & SUPPLEMENTARY HEAT			
240V X 12.4A			
7.68kW ELECTRIC HEAT			
$2976 + (7700VA \times 65\%) = 8.0 k$	/A		
2976+5005 VA = 7981VA X (1 UNIT) =		7981	
TOTALS:			
NET GENERAL LOAD		18640	
HEAT PUMP & SUPPLEMENTARY HEAT		7981	
,	TOTAL	26621	
	, - , / 1-		

26405 VA / 240V = 111 AMPS

CALCULATED LOAD FOR SERVICE

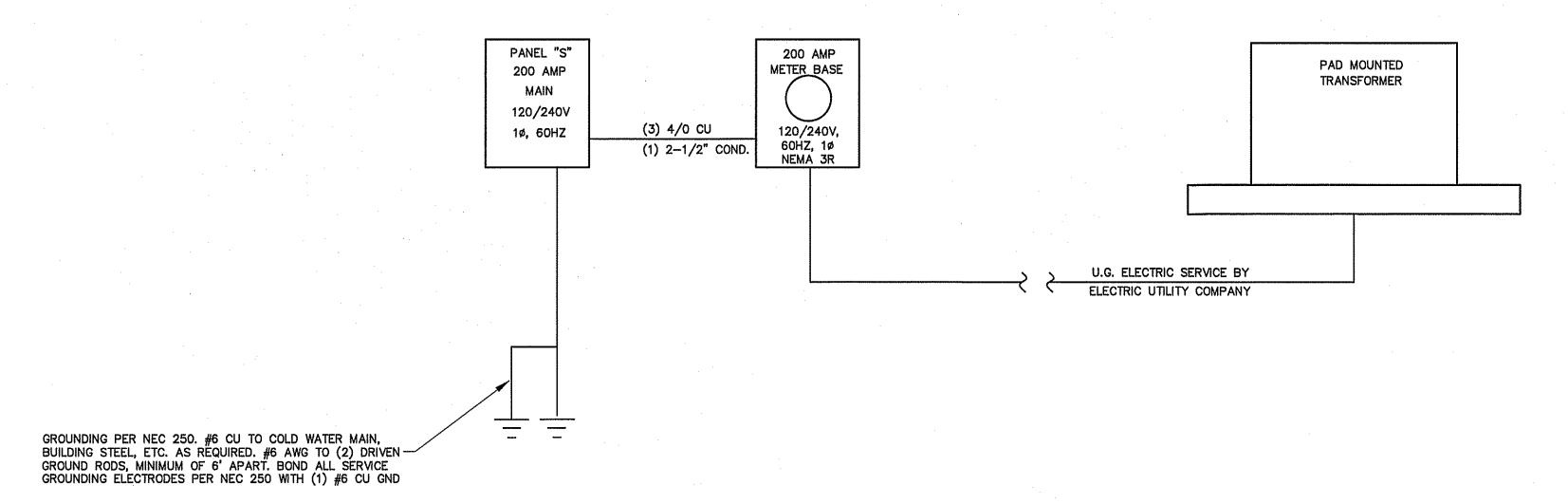
	Al	PARTMENT		
PANEL: S SCHEDUL	.E: M/	ANUFACTURER	: <u>SQ. D</u> NO	D. OF SPACES 42
VOLTS: <u>120/240</u> AM	IPS: <u>200</u>	TYPE: "NQOD	<u>"</u> MOUI	NTING: <u>FLUSH</u>
ENCLOSURE: NEMA 1	_	SHORT	CIRCUIT RATI	NG: <u>10,000</u>
MAIN: SI TOP FEED: CI	BOTTOM FEED: 2	COPPER BUS: 🖾	GROUND BAR KIT:	□ NEUTRAL BAR KIT: □
		DULACE		

NOTE:
VERIFY AIC RATING & LUG SPACE WITH UTILITY COMPANY BEFORE ORDERING PANELS.

		MAIN	: 1253		LI TOP FEED: LI BOTTOM FEED: M	COI	77EH I	BUS: ☑ GROUND BAR KIT: L.J NEUTI	VAL BA	H KII:	LJ .		
<u>_1</u>	L2	CIRCUIT	POLES	TRIP	ASSIGNMENT	L H	ASE 2	ASSIGNMENT	TRIP	POLES	CIRCUIT	L1	L2
3.7	\geq	1	1	20	APARTMENT LIGHTING	0		LIVING/DINING ROOM RECS.	20	1	2	7.5	$\geq \leq$
\geq	3.4	3	1	20	BEDROOM/BATHROOM LIGHTING		0	LIVING ROOM RECEPTACLES	20	1	4	\geq	6.0
12.0	$\geq \leq$	5	1	20	DISHWASHER/GARBAGE DISP.	0		CONVENIENCE RECEPTACLES	20	1	6	3.0	$\geq \leq$
\geq	3.0	7	1	20	EXTERIOR GFCI RECEPTACLES		0	HEAT PUMP 1	25	2	8	\times	12.4
1.5	$\geq \leq$	9	1	20	BATHROOM GFCI RECEPTACLE	0					10	12.4	$\geq \leq$
$\geq \leq$	8.0	11	1	20	REFRIGERATOR		0	SMALL APPLIANCE REC.	20	1	12	\times	3.0
18.8	$\geq \leq$	13	2	30	WATER HEATER	0		SMALL APPLIANCE REC.	20	1	14	4.5	$\geq \leq$
\geq	18.8	15					0	BEDROOM RECEPTACLES	20	1	16	$\geq \leq$	7.5
5.0	$\geq \leq$	17	1	20	WASHING MACHINE	0		DRYER	30	2	18	18.0	$\geq \leq$
\geq	Х	19	1	20	SPARE		0				20	$\geq \leq$	18.0
32.0	$\geq \leq$	21	2	45	AIR HANDLER UNIT # 1	0		WALLPACKS/RISER ROOM LT.	20	1	22	1.6	$\geq \leq$
$\geq \leq$	32.0	23					0	MASTER BEDROOM RECEPTS.	20	1	24	$\geq \leq$	9.0
X	$\geq \leq$	25	2	30	SPARE	0		RANGE	50	2	26	33.0	$\geq \leq$
$\geq \leq$	Х	27	1	20	SPARE		0				28	\geq	33.0
X	$\geq \leq$	29	1	20	SPARE	0		SPRINKLER RISER ROOM REC.	20	1	30	1.5	$\geq \leq$
\geq	Х	31	1	20	SPARE		0	SPARE	20	1	32	$\geq \leq$	Х
X		33	1	20	SPARE	0		SPARE	20	1	34	Х	$\geq \leq$
\geq	Х	35	1	20	SPARE		0	SPARE	20	1	36	\geq	Х
X	$\geq \leq$	37	1	20	SPARE	0		SPARE	20	1	38	Х	$\geq \leq$
\geq	X	39	1	20	SPARE		0	SPARE	20	1	40	\geq	Х
Х	><	41	1	20	SPARE	0		SPARE	20	1	42	Х	><

L1 = 154.5 AL2 = 154.1 A

COORDINATE LOCATION OF SECURITY, CATV, INTERNET, PHONE, OR OTHER SYSTEMS OUTLETS WITH OWNER BEFORE BEGINNING CONSTRUCTION.



ELECTRICAL RISER DIAGRAM NOT TO SCALE

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE:

ENERGY CODE: ASHRAE 90.1:

PRESCRIPTIVE X PRESCRIPTIVE PERFORMANCE PERFORMANCE

SEE SCHEDULE

REFER TO DRAWINGS FOR RISER DIAGRAM AND PANEL SCHEDULES

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE:

NUMBER OF LAMPS IN FIXTURE:

BALLASTS TYPE USED IN FIXTURE:

NUMBER OF BALLASTS IN FIXTURE: TOTAL WATTAGE PER FIXTURE:

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED:

TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED:

ADDITIONAL PRESCRIPTIVE COMPLIANCE 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT

506.2.2 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

FEEDER SCHEDULE									
UNIT	FEEDERS	FUSED DISCONNECT	CONDUIT						
AIR HANDLER 1	2#8CU,1#10CU GND	60	3/4"						
HEAT PUMP 1	2#10CU,1#12CU GND	30	3/4"						
WATER HEATERS	2#10CU,1#12CU GND	30	3/4"						
RANGE	2#6CU,1#8CU 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. 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

5. 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.

6. 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.

7. THE MINIMUM ALLOWABLE SIZE FOR ANY CONDUIT, IMC, OR EMT SHALL BE 3/4"; 1/2" MAY BE USED FOR SWITCH LEGS.

8. 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.

D. UNDER FLOOR INSTALLATIONS

9. ALL WIRE AND CABLE SHALL BE ALUMINUM OR COPPER AND HAVE 600 VOLT THHN-THWN INSULATION.

10. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR CONTROL WIRING, WHICH MAY BE #16 AWG. CONTROL WIRING SHALL USE STRANDED CONDUCTORS UNLESS OTHERWISE NOTED.

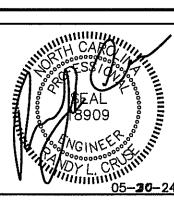
11. ALL METAL RACEWAY SYSTEMS SHALL BE MADE ELECTRICALLY CONTINUOUS. THE RACEWAY SYSTEM SHALL NOT BE THE SOLE GROUNDING METHOD. AN INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED FOR ALL FEEDERS AND BRANCH CIRCUITS. AT RECEPTACLES, A GREEN GROUND CONDUCTOR SHALL BE CONNECTED TO THE GROUND TERMINAL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

12. ALL CONDUCTORS TO BE INSTALLED IN CONDUIT.

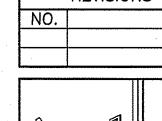
13. ALL PENETRATIONS OF FIRE WALLS SHALL BE SEALED WITH APPROVED SEALING MATERIALS TO MAINTAIN THE FIRE RATING OF THE WALLS IN ACCORDANCE WITH UL PENETRATION DETAIL W-J-1042.

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

20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 8 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 200 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT WIRING SHALL BE NO. 6 CU AWG THROUGHOUT IF THE CIRCUIT IS LONGER THAN 400 FEET TOTAL LENGTH. 20 AMP BRANCH CIRCUIT SHALL BE NOT EXCEED 500' FEET IN TOTAL LENGTH.



REVISIONS



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05-30-24 DRAWN BY BAM JOB NO. 24-28