GENERAL ABBREVIATIONS

A.F.F. ABOVE FINISH FLOOR SQUARE STD. STANDARD ACOUS. ACOUSTICAL ADJ. ADJUSTABLE STL. STEEL ALUM. ALUMINUM STOR. STORAGE SUSP. SUSPENDED **ANGLE** TIME CLOCK ARCH. ARCHITECTURAL T.O. TOP OF TEL. TELEPHONE BD. BOARD THK. THICK BLDG. BUILDING TYP. TYPICAL BLK. BLOCK

U.O.N. UNLESS OTHERWISE BLKG. BLOCKING VERT. VERTICAL V.I.F. VERIFY IN FIELD BOT. BOTTOM WEST CAB. CABINET W/ WITH CEM. CEMENT W/C WATER CLOSET CENTERLINE W/O WITHOUT

W/R WATER RESISTANT CLG. CEILING WD. WOOD CLKG. CAULKING WT. WEIGHT CLR. CLEAR COL. COLUMN

C.M.U. CONCRETE MASONRY UNIT CONT. CONTINUOUS DET. DETAIL DIA. DIAMETER DIMENSION

CERAMIC

CONC. CONCRETE

CER.

DR. DBL. DOUBLE DN. DOWN DOWNSPOU' DWG. DRAWING (E) **EXISTING**

ELECTRICAL PANELBOARD EA. EACH ELEV. ELEVATION ELEC. ELECTRICAL

EMER. EMERGENCY EQ. EQUAL E.W.C. ELECTRIC WATER COOLER

F.E. FIRE EXTINGUISHER F.O. FACE OF F.O.F. FACE OF FINISH F.O.S. FACE OF STUDS FINISH TO FINISH

F.R. FIRE RETARDANT F.S. FULL SIZE FIN. FINISH FLOOR FLUOR. FLUORESCENT FT. FOOT, FEET

F.V. FIELD VERIFY G.B. GRAB BAR G.C. GENERAL CONTRACTOR

GA. GAUGE G.F.R.C. GLASS FIBER REINFORCED CEMENT

GLASS GYP. **GYPSUM** HOLLOW CORE HOLLOW METAL HANDICAPPED

HDWD. HARDWOOD HORIZ. HORIZONTAL HGT. HEIGHT HOUR

HANGER-TIGHT UNIT HEATING, VENTILATION, AIR CONDITIONING INSIDE DIAMETER

INSUL. INSULATION JOINT LAM. LAMINATE LIGHT

MIR. MIRROR MAX. MAXIMUM MECHANICAL MFR. MANUFACTURER

MINIMUM MISC MISCELLANEOUS MTL. **METAL**

N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE

NORTH

NUMBER NOM. NOMINAL OPNG. OPENING OPPOSITE

P.LAM. PLASTIC LAMINATE PL. PLATE PLAS. PLASTER

PLYWD. PLYWOOD PAIR POINT

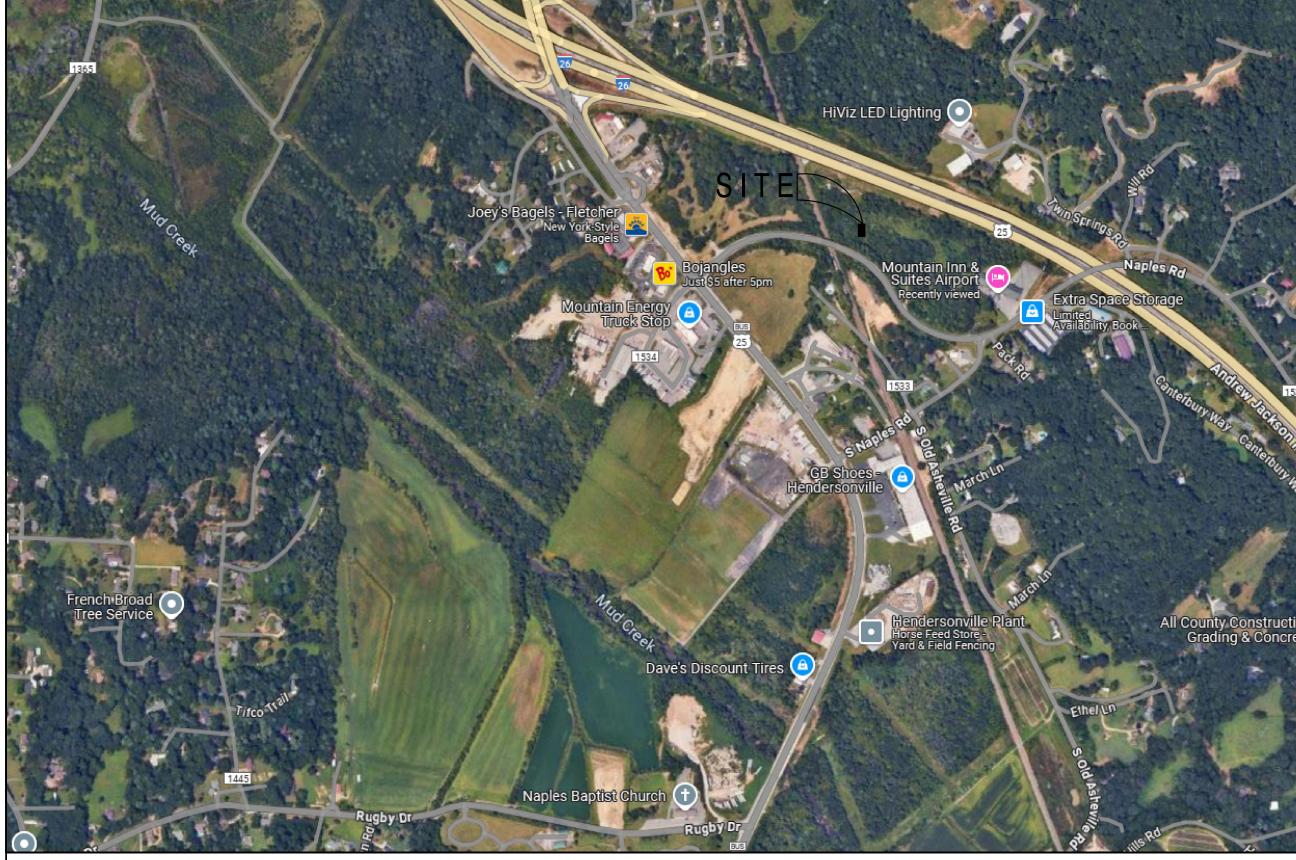
POUND OR NUMBER RISER RAD. RADIUS

REQ'D. REQUIRED RESIL. RESILIENT ROUGH OPENING

SOUTH SOLID CORE STAINLESS STEEL

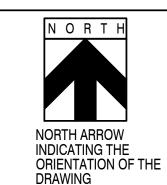
SCHED. SCHEDULE SHT. SHEET SIM. SIMILAR SPEC. SPECIFICATION

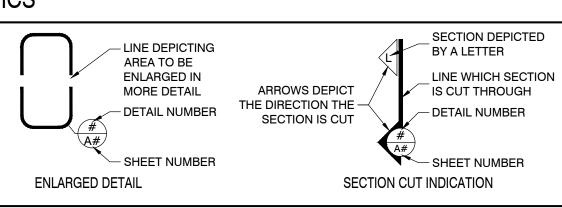




LOCATION MAP - 399 NAPLES RD.- SEE CIVIL

SYMBOLS AND GRAPHICS





PROFESSIONAL CONSULTANTS

WILDE ENGINEERING - NC FIRM LIC. NO. P-2182 MECHANICAL., ELECTRICAL & PLUMBING (MEP)

15822 KELLY PARK CIRCLE HUNTERSVILLE, NC

JDH STRUCTURAL ENGINEERS PLLC -NC FIRM LIC. NO. P-1593 (STRUCTURAL)

19545 GREENTREE WAY, SUITE B **CORNELIUS, NC 28031**

WGLA ENGINEERING PLLC -NC FIRM LIC. NO. P-1342 (CIVIL)

724 5TH AVE. WEST HENDERSONVILLE, NC 28729

ph: 828-687--7177

ph: 704-439--7038

ph: 704-997--7072

BUILDING CODE ANALYSIS INFORMATION:

TOTAL GROSS AREA UNDER ROOF: 47,404.5 SF. (TABLE 506.2 GROUP R-2 12,000 S13R SPRINKLED MAX AREA ALLOWABLE)

AREA INCREASE MODIFICATION: (SECTION 506.2.3, EQUATION 5-2)
AREA = [12,000+(12,000X0.75)]X3=63,000 SF. WHICH IS GREATER THAN 47,404.5 SF. LARGEST FLOOR 14,195.5 SF. WHICH IS LESS THAN 21,000 SF.

BUILDING HEIGHT: ±49'-0" (TABLE 504.3 R2 60' S13R' SPRINKLED MAX.

ALLOWABLE) NUMBER OF STORIES: 3 ABOVE GRADE + 1 WALKOUT BASEMENT (TABLE 504.4 R2 S13R SPRINKLED ALLOWABLE STORIES ABOVE

CONSTRUCTION TYPE: VA, S13R SPRINKLED ONE STORY (1 HR RATINGS REQ. TABLE 601 EXCEPT INTERIOR NON BEARING WALLS)

OCCUPANCY GROUP: RESIDENTIAL R2 - 28 UNITS

FIRE RATINGS FOR BUILDING ELEMENTS REQUIRED- 1 HR (TABLE 601) FIRE SEPARATION RATINGS FOR EXTERIOR WALLS REQUIRED- 0 HR W/SEPARATION DISTANCE OF 30' OR GREATER. (TABLE 602)

CODE INFORMATION:

COUNTY JURISDICTION: HENDERSON STATE JURISDICTION: NORTH CAROLINA

APPLICABLE CODES: N.C.B.C. 2018 BUILDING, PLUMBING, MECHANICAL, ENERGY CONSERVATION, FIRE PREVENTION CODES

SHE	ET IND	EX
ATE	SHEET	SHEET TITLE
	CS-1	COVER SHEET- NOTES-LOCATION MAP
		ARCHITECTURAL
	A-0.0 A-0.1	OVERALL BASEMENT FLR. PLAN & WINDOW/DOOR SCHEDULES PARTIAL BASEMENT FLOOR PLAN.
	A-0.1 A-0.2	PARTIAL BASEMENT FLOOR PLAN. PARTIAL BASEMENT FLOOR PLAN.
	A-0.2	OVERALL FIRST FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-1.1	PARTIAL FIRST FLOOR PLAN.
	A-1.2	PARTIAL FIRST FLOOR PLAN.
	A-2.0	OVERALL SECOND FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-2.1	PARTIAL SECOND FLOOR PLAN.
	A-2.2	PARTIAL SECOND FLOOR PLAN.
	A-3.0	OVERALL THIRD FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-3.1 A-3.2	PARTIAL THIRD FLOOR PLAN. PARTIAL THIRD FLOOR PLAN.
	A-0.2	ROOF PLAN
	A-5.1	PARTIAL FRONT ELEVATION.
	A-5.2	PARTIAL FRONT ELEVATION.
	A-5.3	RIGHT SIDE ELEVATION.
	A-5.4	PARTIAL REAR ELEVATION.
	A-5.5	PARTIAL REAR ELEVATION.
	A-5.6	LEFT SIDE ELEVATION.
	A-6.1	BUILDING SECTION - "A-A" & SECTION DETAILS.
	A-6.2	BUILDING SECTION - "B-B" & SECTION DETAILS.
	A-6.3 A-6.4	BUILDING SECTION - "C-C" BUILDING SECTION - "D-D"
	A-6.4 A-6.5	BUILDING SECTION - "D-D" BUILDING SECTION - "E-E" & SECTION DETAILS.
	A-6.5	PARTIAL BUILDING SECTIONS - "F" & "G" & SECTION DETAILS.
	7. 3.3	STRUCTURAL
	S-0.00	GENERAL NOTES.
	S-0.01	GENERAL NOTES.
	S-1.00	TYPICAL DETAILS.
	S-1.01	TYPICAL DETAILS.
	S-1.02	TYPICAL DETAILS.
	S-1.03	TYPICAL DETAILS.
	S-2.01B	BASEMENT FOUNDATION FRAMING PLAN.
	S-2.02	FIRST FLOOR FOUNDATION FRAMING PLAN.
	S-2.03 S-2.04	SECOND FLOOR FRAMING PLAN.
	S-2.04 S-2.05	THIRD FLOOR FRAMING PLAN. ROOF FRAMING PLAN.
	S-3.00	FOUNDATION SECTIONS.
	S-3.01	FOUNDATION SECTIONS.
	S-4.00	FLOOR FRAMING SECTIONS.
	S-4.01	FLOOR FRAMING SECTIONS.
	S-5.00	ROOF FRAMING SECTIONS.
		ELECTRICAL
	E-01	ELECTRICAL COVER SHEET.
	E-02	ELECTRICAL SPECIFICATIONS.
	E-03	ELECTRICAL DETAILS.
	E-04	POWER RISER DIAGRAM. PANEL SCHEDULE & HOUSE PANEL.
	E-05 E-10.5	ELECTRICAL SITE PLAN.
	E-10.5	ELECTRICAL SITE PLAN.
	E-21	OVERALL ELECTRICAL PLAN - BASEMENT.
	E-22	OVERALL ELECTRICAL PLAN - FIRST FLOOR.
	E-23	OVERALL ELECTRICAL PLAN - SECOND FLOOR.
	E-24	OVERALL ELECTRICAL PLAN - THIRD FLOOR.
	E-31	PARTIAL ELEVATION.
	E-41	ENLARGED UNIT PLAN - 1 BEDROOM.
	E-42	ENLARGED UNIT PLAN - 1 BEDROOM TYPE-A.
	E-43	ENLARGED UNIT PLAN - 2 BEDROOM TYPE-A.
	E-44	ENLARGED UNIT PLAN - 3 BEDROOM TYPE-A.
	E-45	ENLARGED UNIT PLAN - 3 BEDROOM ACCESSIBLE.
	M-00	MECHANICAL MECHANICAL COVER SHEET.
	M-01	MECHANICAL COVER SHEET. MECHANICAL SCHEDULE.
	M-1	MECHANICAL PLAN - BASEMENT.
	M-2	MECHANICAL PLAN - FIRST FLOOR.
	M-3	MECHANICAL PLAN - SECOND FLOOR.
	M-4	MECHANICAL PLAN - THRID FLOOR.
		PLUMBING
	P-00	PLUMBLING COVER SHEET.
	P-1	PLUMBLING SANITARY & SUPPLY PLAN - BASEMENT.
	P-2	PLUMBING SANITARY PLAN - FIRST FLOOR.
	P-3	PLUMBING SUPPLY PLAN - FIRST FLOOR.
	P-4	PLUMBING SUPPLY PLAN - SECOND FLOOR.
	P-5	PLUMBING SANITARY PLAN - SECOND FLOOR.
	P-6	PLUMBING SANITARY PLAN - THIRD FLOOR.
	P-7	PLUMBING SUPPLY PLAN - THIRD FLOOR.
	P-8	ENLARGED UNIT PLANS.
	P-9	ENLARGED UNIT PLANS.
	P-10	ENLARGED UNIT PLANS.
	FP-00	FIRE
	FF-UU	FIRE PROTECTION COVER SHEET CIVIL
	i	UITIE

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The orchards at Naples Road, LI 341 N main Street Hendersonville, NC 28792 Luis Graef: President



REVISIONS

ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN, LBN CHECKED BY: GAN

DWG DECRIPTION: COVER SHEET. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT

U3-

	BASEMENT WINDOW SCHEDULE									
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS		
B01	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS		

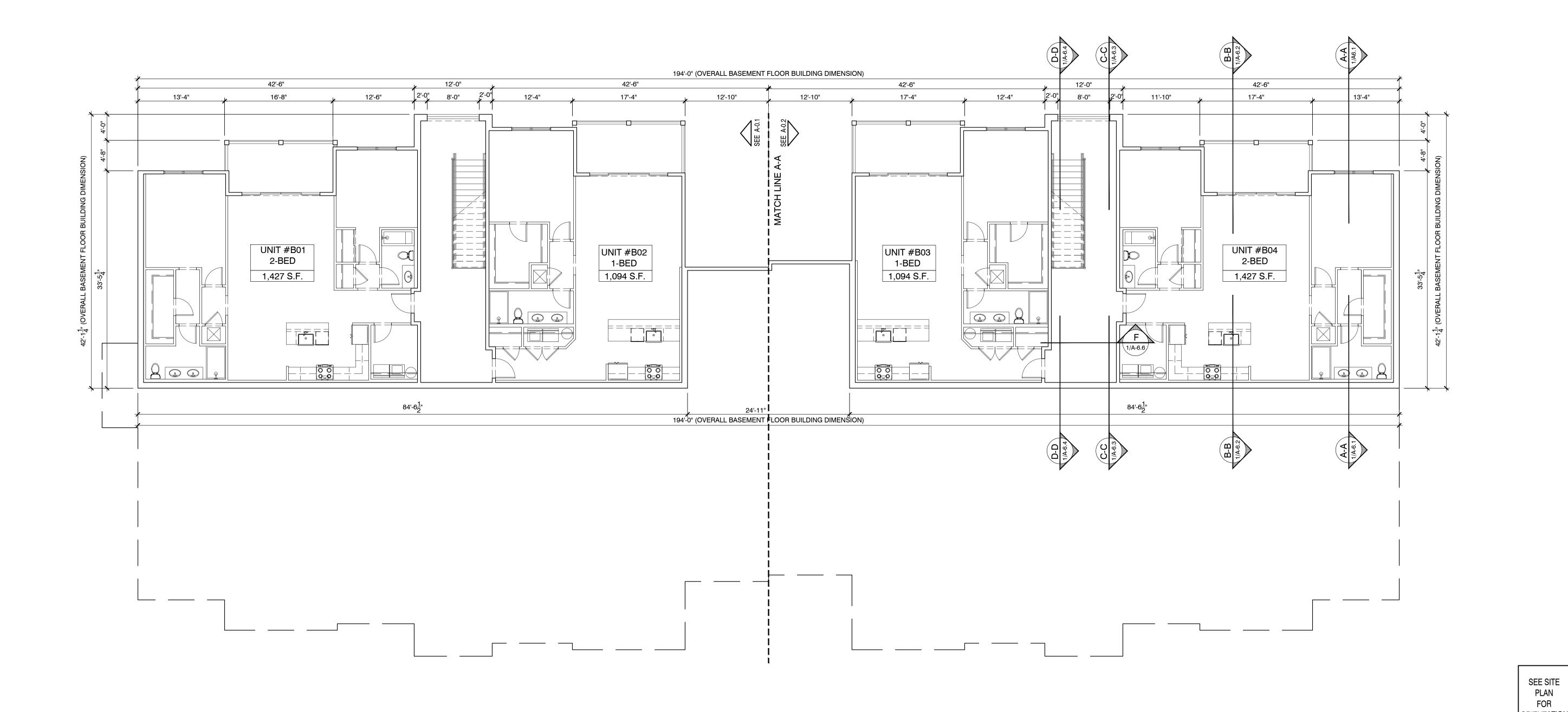
BASEMENT F	EXTERIOR DOOR	SCHEDULE
		COLLEDGE

No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRES
B01	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
B02	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	Х	HOLLOW METAL	MTWS		EGRESS

BASEMENT INTERIOR DOOR SCHEDULE

No.	TYPE	W×H	MATER.	SILL	REMARKS
B03	SINGLE DR.	2'-8"X6'-8"	WOOD	-	-
B04	SINGLE DR.	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
B05	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-
B06	DOUBLE DR.	(2) 2'-8"X6'-8"	WOOD	-	-
B07	BI-FOLD DR.	(2) 2'-6"X6'-8"	WOOD	-	-

	BASEMENT AREA CALCULATION												
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA					
B01	2	-	1,408 S.F.	132 S.F.	1,540 S.F.	0.755.0.5	412 S.F.						
B02	1	-	1,081 S.F.	134 S.F.	1,215 S.F.	2,755 S.F.		6,368 S.F.					
B03	1	-	1,081 S.F.	134 S.F.	1,215 S.F.	2,755 S.F.	412 S.F.	3,555 6.11.					
B04	2	-	1,408 S.F.	132 S.F.	1,540 S.F.	2,733 3.1 .	412 3 .F.						



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Tel: 561-549-1986

SIGNATU

The orchards at Naples Road, LLC 341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

Orchards at Naples Road
Apartment Complex
Suildings 185-28 units

REVISIONS DATE

DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
DRAWN BY: GAN, LBN
CHECKED BY: GAN

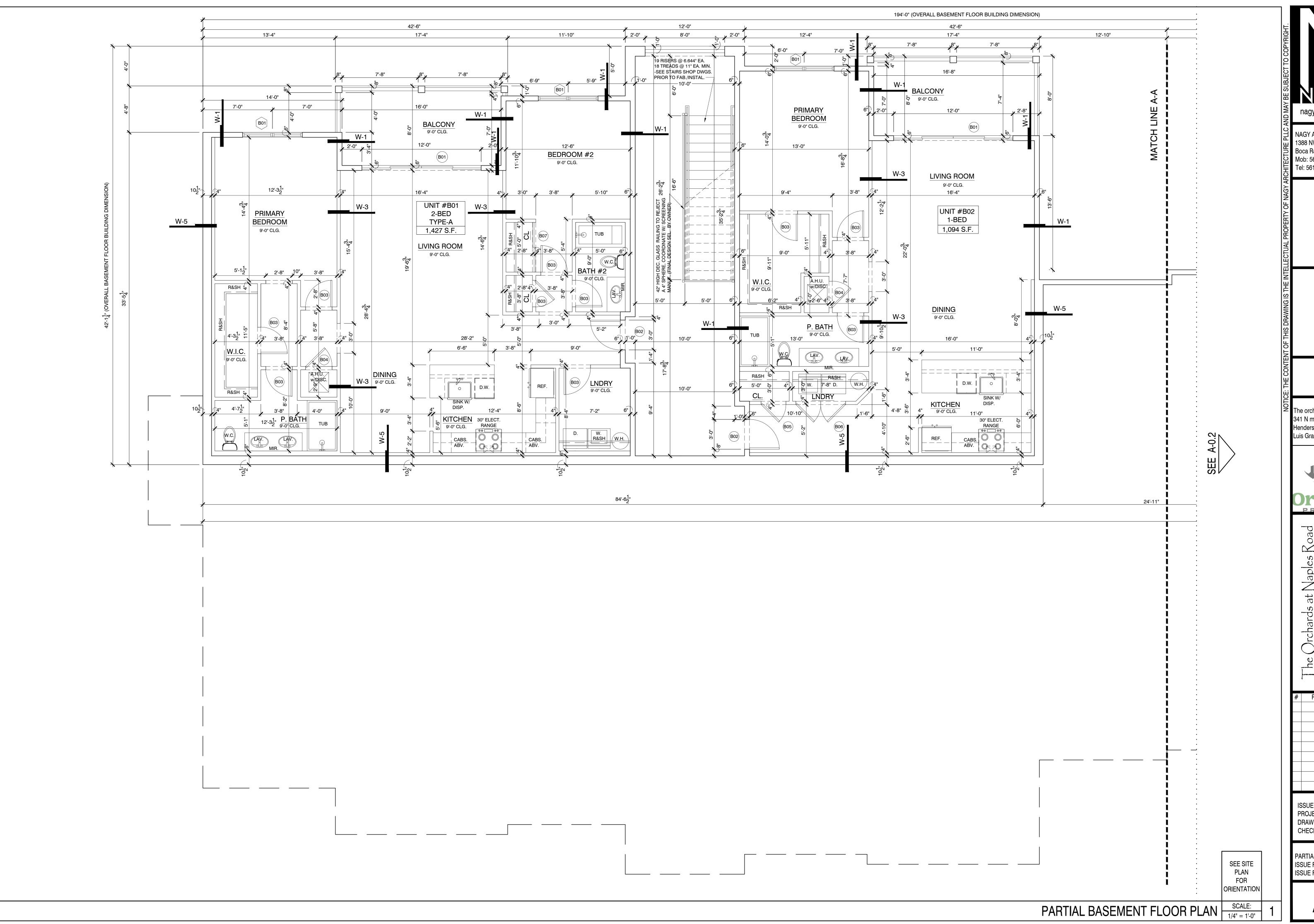
DWG DECRIPTION:

OVERALL BASEMENT FLR. PLAN.
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ORIENTATION

OVERALL BASEMENT FLOOR PLAN SCALE: 1/8" = 1'-0"

A-0.0



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NAGY ARCHITECTURE PLLC
1388 NW 2nd Avenue, St. #4A
Boca Raton, Florida 33432
Mob: 561-289-1634
Tel: 561-549-1986

CLIENT:
The orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President

SIGNATURE:



PROJECT:

I ne Urchards at Mapies Noac Apartment Complex Buildings 185-28 units Hendersonville, North Carolina

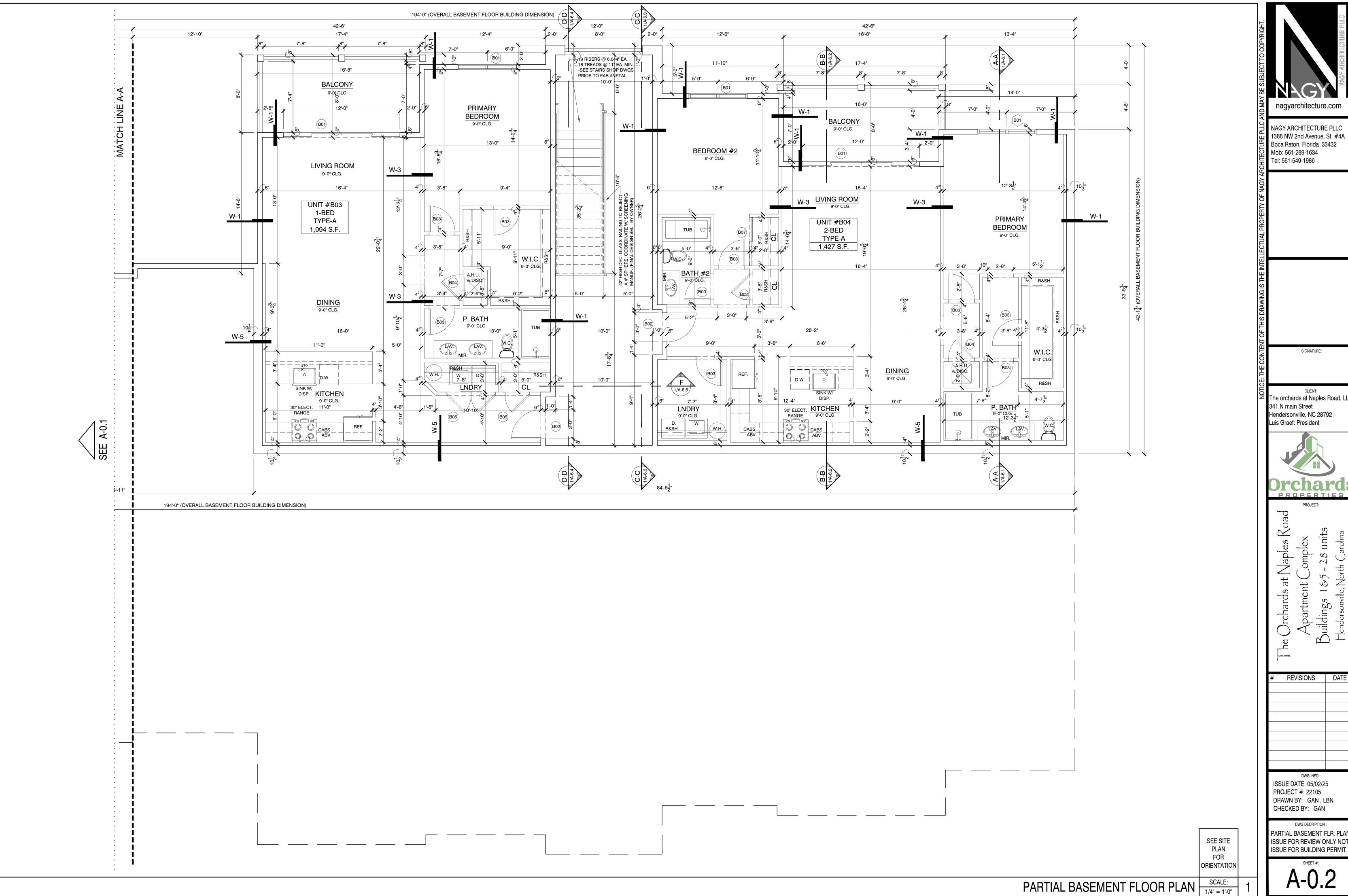
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ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN , LBN CHECKED BY: GAN

DWG DECRIPTION:

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NAGY ARCHITECTURE PLLC 1388 NW 2nd Avenue, St. #4A

The orchards at Naples Road, LLC



#	REVISIONS	DATE
	DWG INFO :	

PARTIAL BASEMENT FLR. PLAN ISSUE FOR REVIEW ONLY NOT

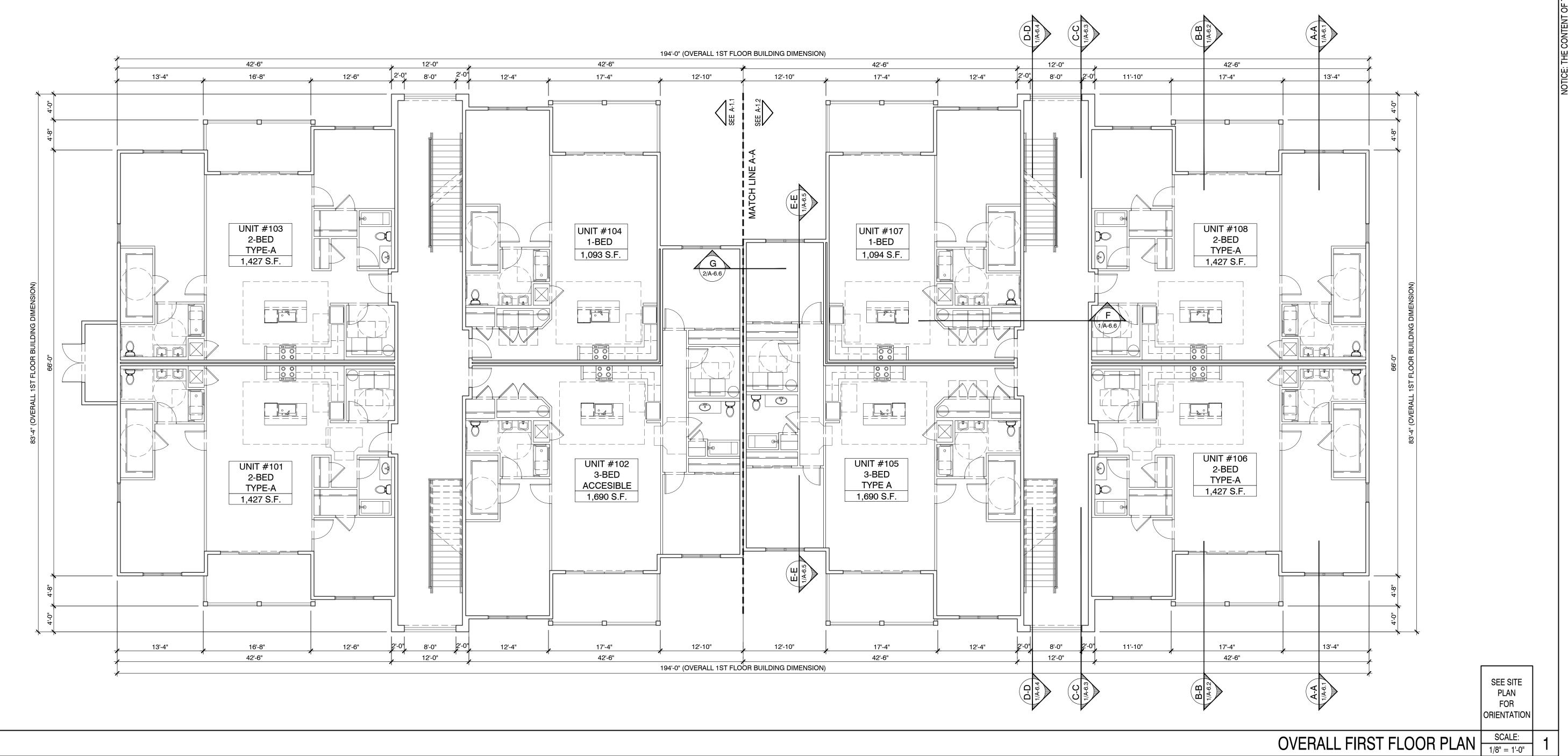
	FIRST FLOOR WINDOW SCHEDULE											
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS				
101	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS				
102	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS	EGRESS				

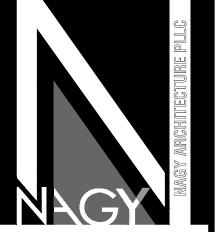
FIRST FLOOR EXTERIOR DOOR SCHEDULE

No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRES
101	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
102	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	Х	HOLLOW METAL	MTWS		EGRESS
102a	STORAGE DR.	(2)3'-0" X 8'-0"	72" X 96"	Х	HOLLOW METAL			

	F	IRST FLC	OR INT	ERIOF	R DOOR SCHEDULE
No.	TYPE	WxH	MATER.	SILL	REMARKS
103	SINGLE DR.	3'-0"X6'-8"	WOOD	-	-
104	SINGLE DR.	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
105	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-
106	DOUBLE DR.	(2)3'-0"X6'-8"	WOOD	-	-
107	BI-FOLD DR.	(2)3'-0"X6'-8"	WOOD	-	-
108	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-

	FIRST FLOOR AREA CALCULATION												
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA					
101	2	А	1,427 S.F.	132 S.F.	1,559 S.F.								
102	3	ACCESIBLE	1,690 S.F.	134 S.F.	1,824 S.F.	6,169 S.F.	749.5 S.F.						
103	2	А	1,427 S.F.	132 S.F.	1,559 S.F.								
104	1	-	1,093 S.F.	134 S.F.	1,227 S.F.			14,195.5 S.F.					
105	3	А	1,690 S.F.	134 S.F.	1,824 S.F.			14,100.0 0.1 .					
106	2	А	1,427 S.F.	132 S.F.	1,559 S.F.	6 170 S E	749.5 S.F.						
107	1	-	1,094 S.F.	134 S.F.	1,228 S.F.	6,170 S.F.	749.5 S.F.						
108	2	А	1,427 S.F.	132 S.F.	1,559 S.F.								





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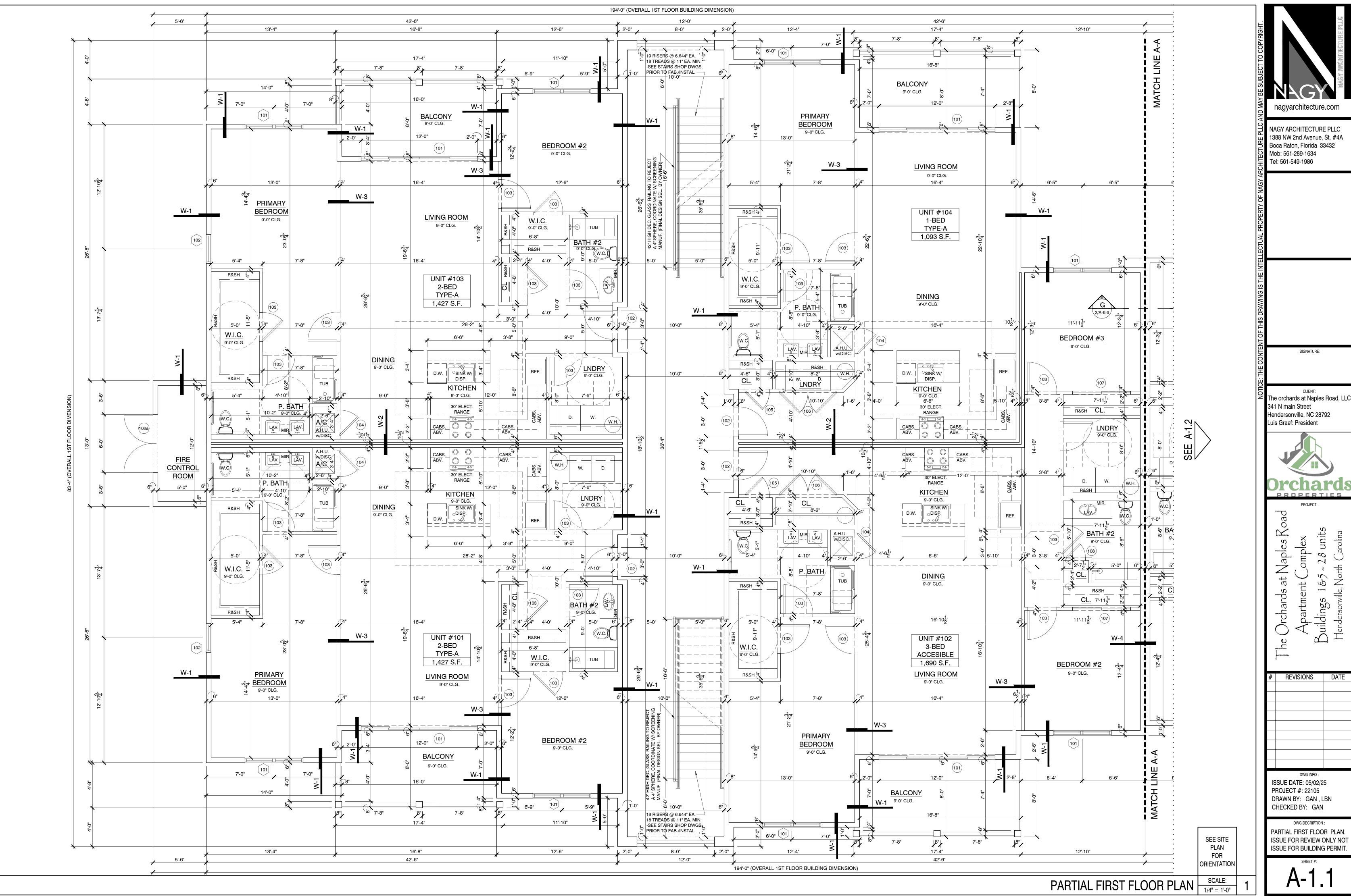
The orchards at Naples Road, LLC 341 N main Street Hendersonville, NC 28792 Luis Graef: President

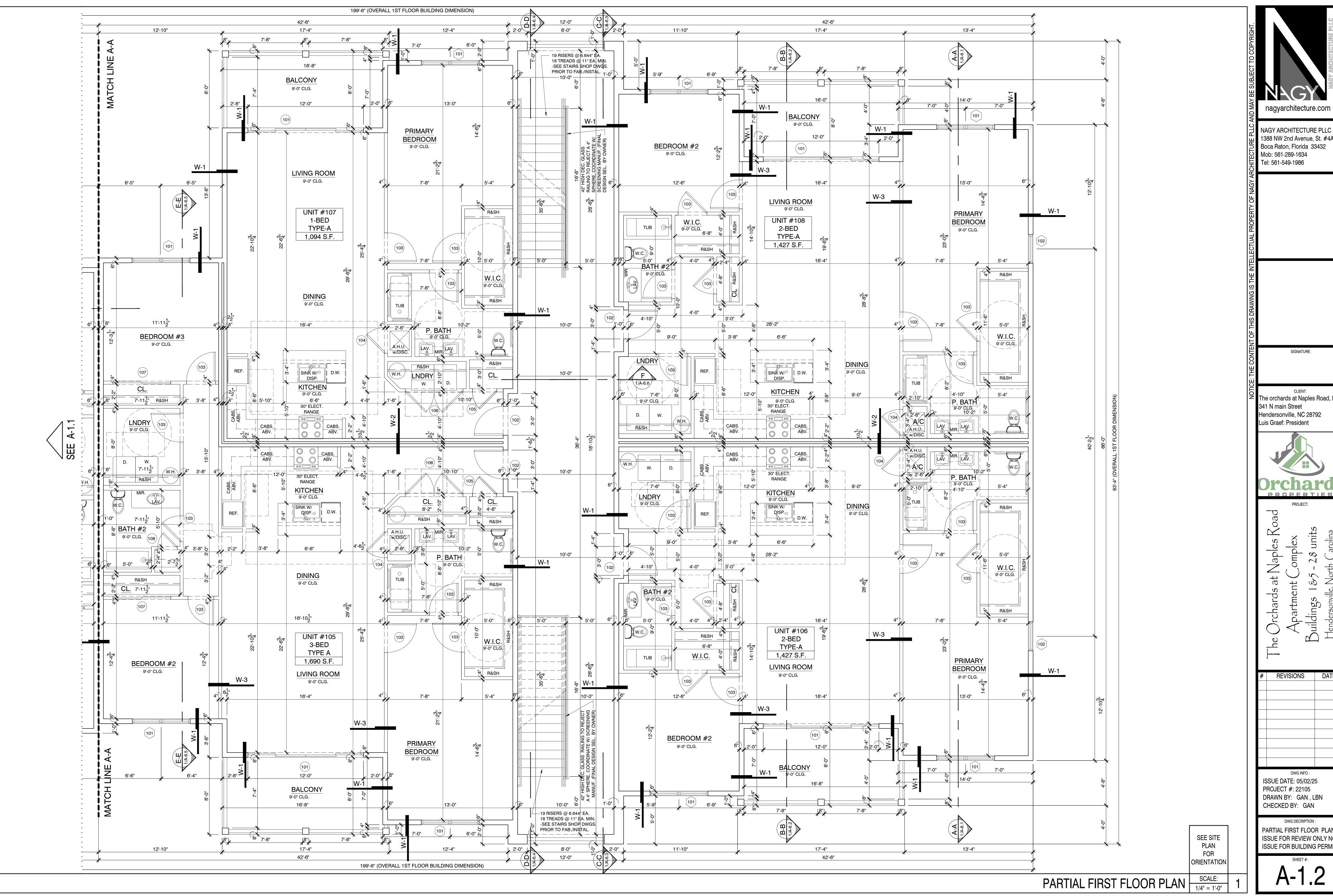


REVISIONS

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OVERALL FIRST FLOOR PLAN ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.





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The orchards at Naples Road, LL0 Hendersonville, NC 28792



Orchards

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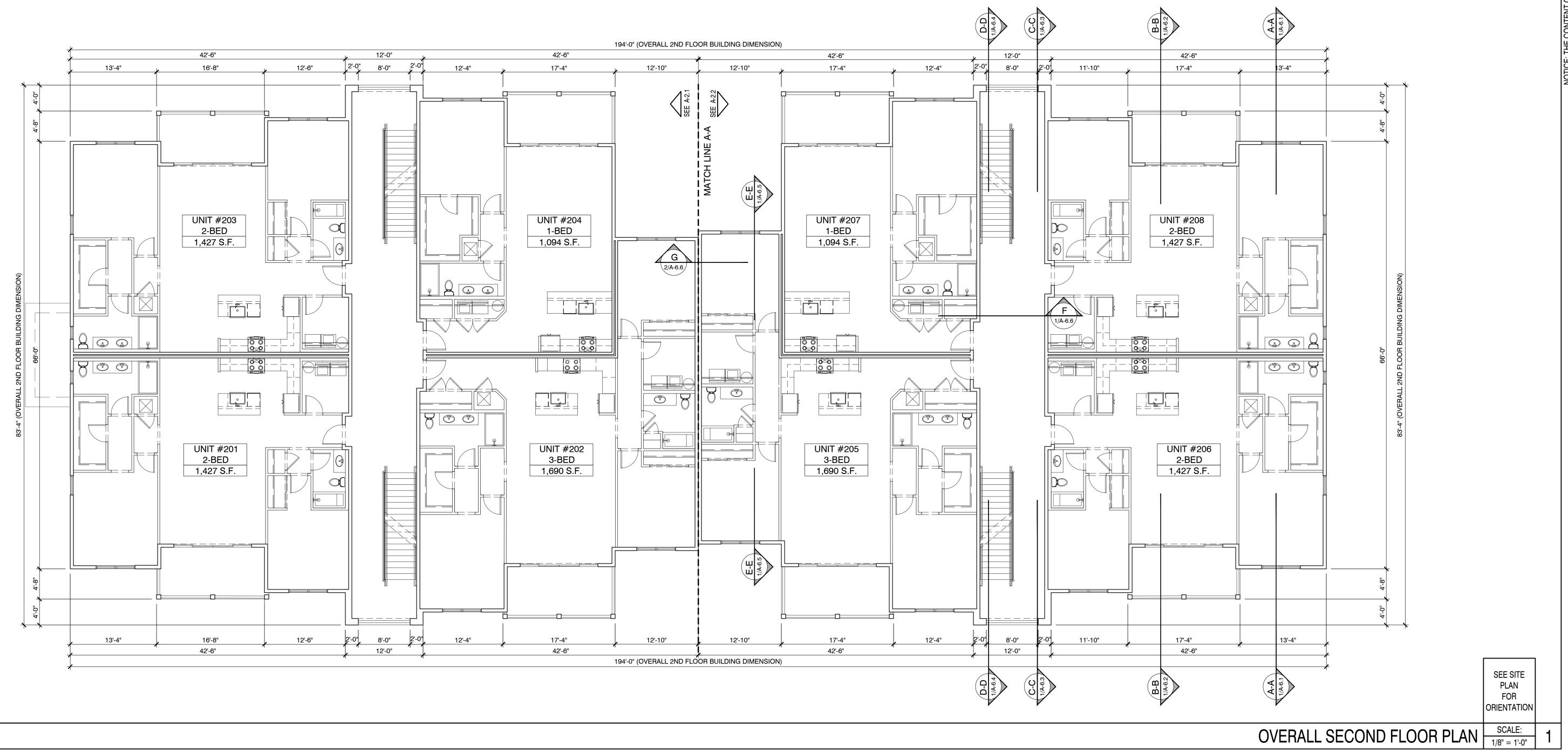
PARTIAL FIRST FLOOR PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT

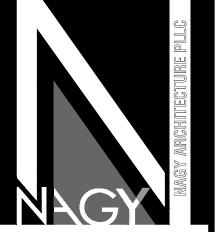
	SECOND FLOOR WINDOW SCHEDULE											
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS				
201	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS				
202	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS	EGRESS				
203	FIXED	24" X 24"	24" X 24"	0	VINYL/GLS.	@ 6'-0" A.F.F.	(1) PANE TEMPERED GLASS					

SECOND FLOOR EXTERIOR DOOR SCHEDULE									
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS	
201	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS	
202	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	Х	HOLLOW METAL	MTWS		EGRESS	

SECOND FLOOR INTERIOR DOOR SCHEDULE										
No.	TYPE	WxH	MATER.	SILL	REMARKS					
203	SINGLE DR.	2'-8"X6'-8"	WOOD	-	-					
204	SINGLE DR.	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET					
205	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-					
206	DOUBLE DR.	(2) 2'-6"X6'-8"	WOOD	-	-					
207	BI-FOLD DR.	(2) 2'-6"X6'-8"	WOOD	-	-					
208	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-					

SECOND FLOOR AREA CALCULATION										
TOTAL FLR. GROSS AREA	COMMON AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	BALCONY AREA	UNIT AREA	TYPE	# OF BED.	UNIT #		
14,124 S.F.			1,559 S.F.	132 S.F.	1,427 S.F.	-	2	201		
	749.5 S.F.	6,170 S.F.	1,824 S.F.	134 S.F.	1,690 S.F.	-	3	202		
	1.000	0,170 S.F.	1,559 S.F.	132 S.F.	1,427 S.F.	-	2	203		
			1,228 S.F.	134 S.F.	1,094 S.F.	-	1	204		
	749.5 S.F.		1,824 S.F.	134 S.F.	1,690 S.F.	-	3	205		
		6,170 S.F.	1,559 S.F.	132 S.F.	1,427 S.F.	-	2	206		
		0,170 S.F.	1,228 S.F.	134 S.F.	1,094 S.F.	-	1	207		
			1,559 S.F.	132 S.F.	1,427 S.F.	-	2	208		





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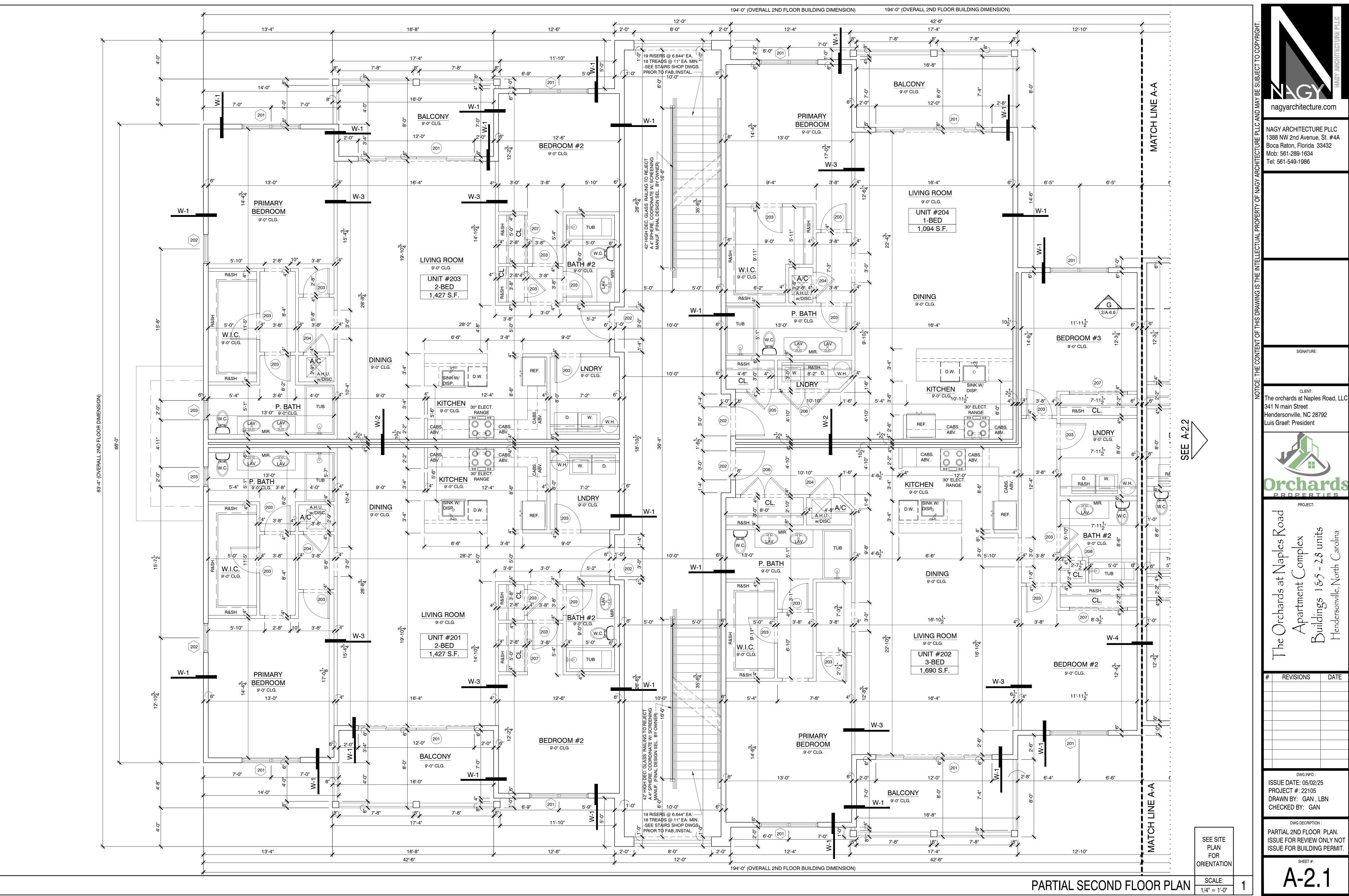


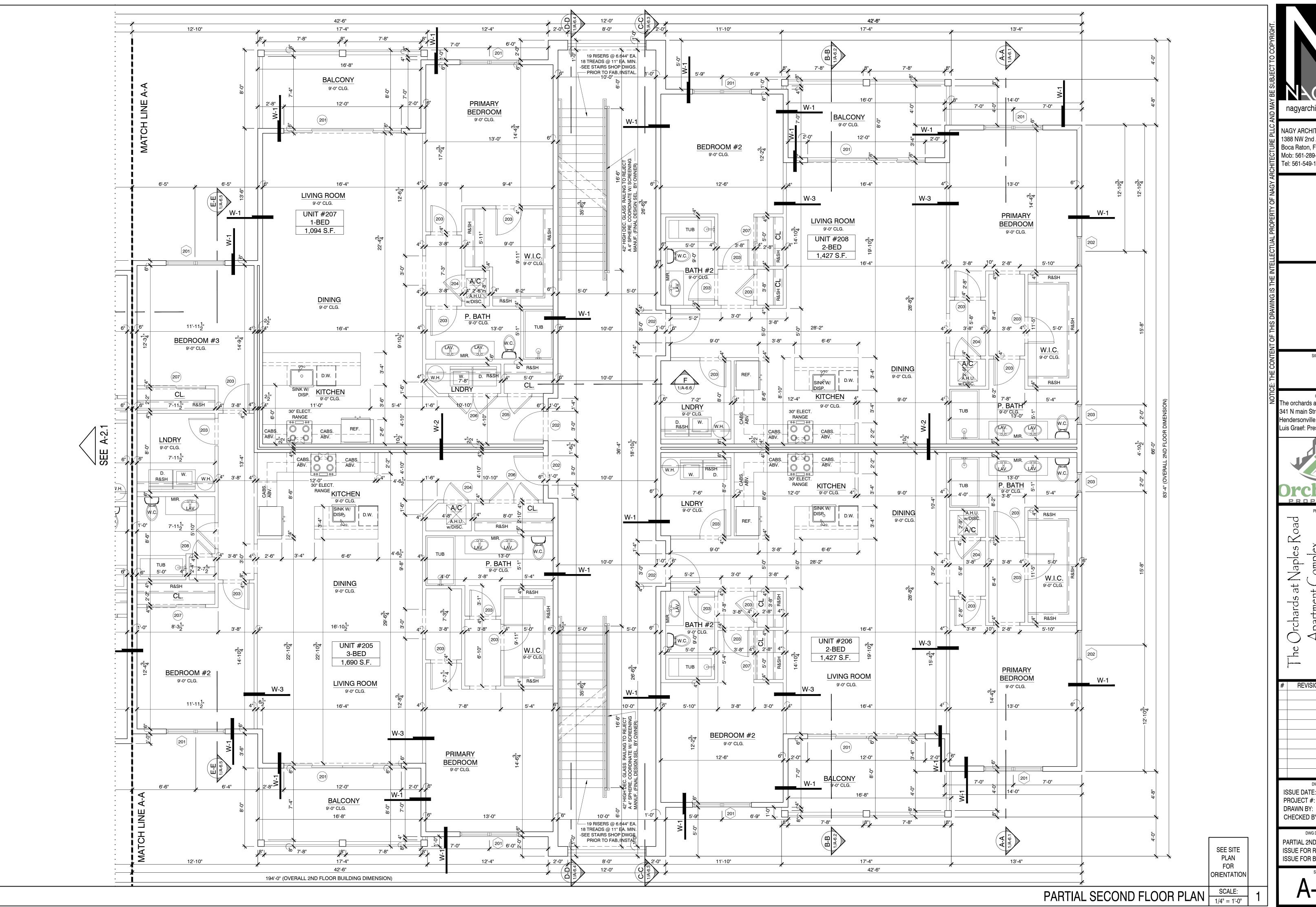
Orchards

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OVERALL 2ND FLOOR PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.





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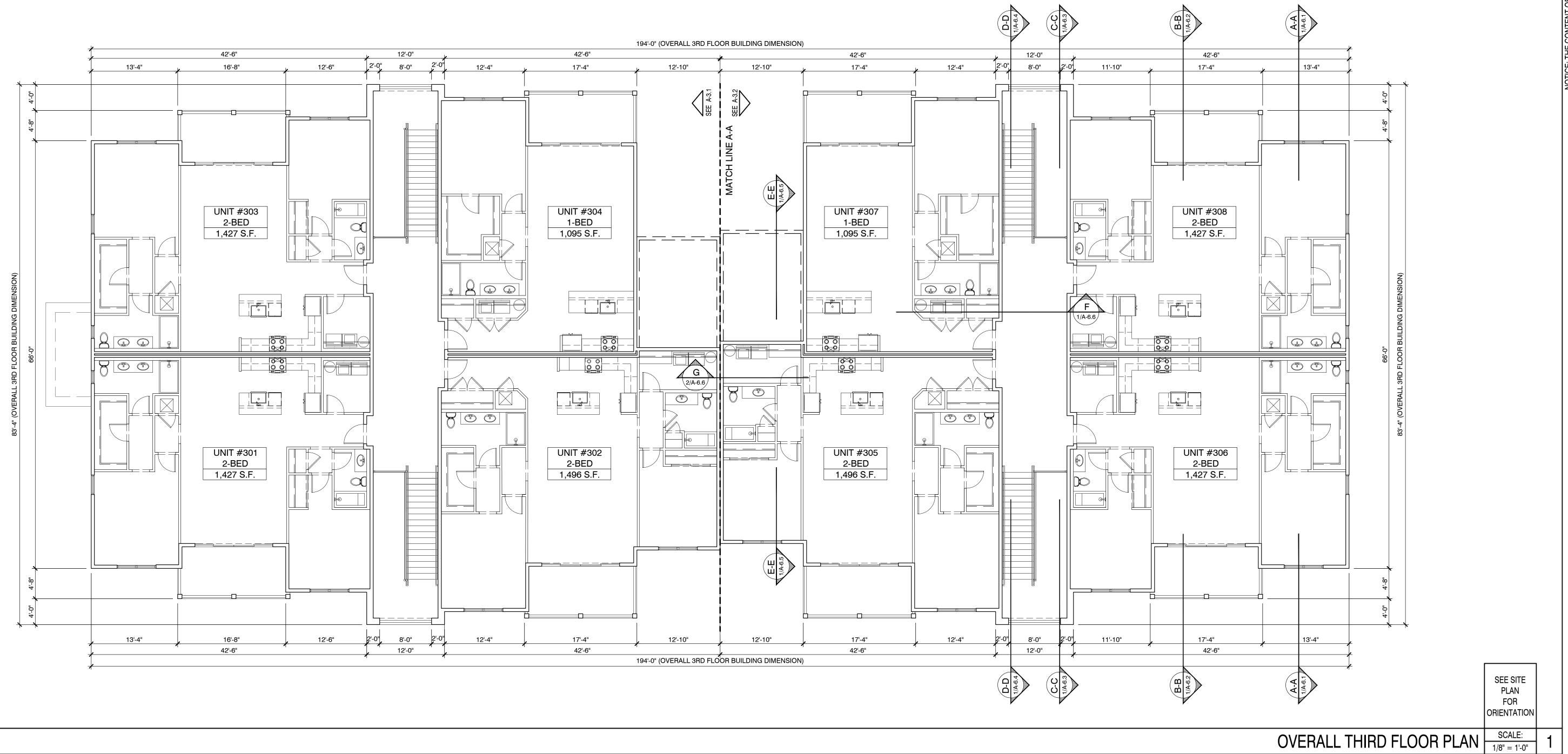
PARTIAL 2ND FLOOR PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT

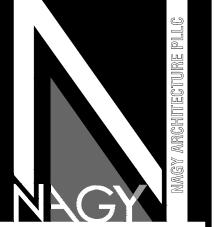
	THIRD FLOOR WINDOW SCHEDULE								
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS	
301	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS	
302	SINGLE HUNG	36" X 60"	36" X 60"	xx	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS	EGRESS	
303	FIXED	24" X 24"	24" X 24"	0	VINYL/GLS.	@ 6'-0" A.F.F.	(1) PANE TEMPERED GLASS		

THIRD FLOOR EXTERIOR DOOR SCHEDULE									
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRES	
301	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS	
302	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	Х	HOLLOW METAL	MTWS		EGRESS	

	THIRD FLOOR INTERIOR DOOR SCHEDULE									
No.	TYPE	WxH	MATER.	SILL	REMARKS					
303	SINGLE DR.	2'-8"X6'-8"	WOOD	-	-					
304	304 SINGLE DR. 2'-8"X6'-8	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET					
305	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-					
306	DOUBLE DR.	(2)2'-6"X6'-8"	WOOD	-	-					
307	307 BI-FOLD DR. (2) 2'-6"X6'-8"		WOOD	-	-					
308	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-					

	THIRD FLOOR AREA CALCULATION										
UNIT # OF BED. TYPE UNIT AREA BALCONY AREA UNIT'S AREA UNIT'S AREA COMMON AREA GROSS AF											
301	2	-	1,427 S.F.	132 S.F.	1,559 S.F.		383 S.F.	12,717 S.F.			
302	2	-	1,496 S.F.	134 S.F.	1,630 S.F.	5,977 S.F.					
303	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	3,377 3.11.					
304	1	-	1,095 S.F.	134 S.F.	1,229 S.F.						
305	2	-	1,496 S.F.	134 S.F.	1,630 S.F.		383 S.F.				
306	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	5 077 S E					
307	1	-	1,095 S.F.	134 S.F.	1,229 S.F.	5,977 S.F.	303 3.1 .				
308 2 - 1,427 S.F.				132 S.F.	1,559 S.F.						





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The orchards at Naples Road, LLC 341 N main Street Hendersonville, NC 28792 Luis Graef: President

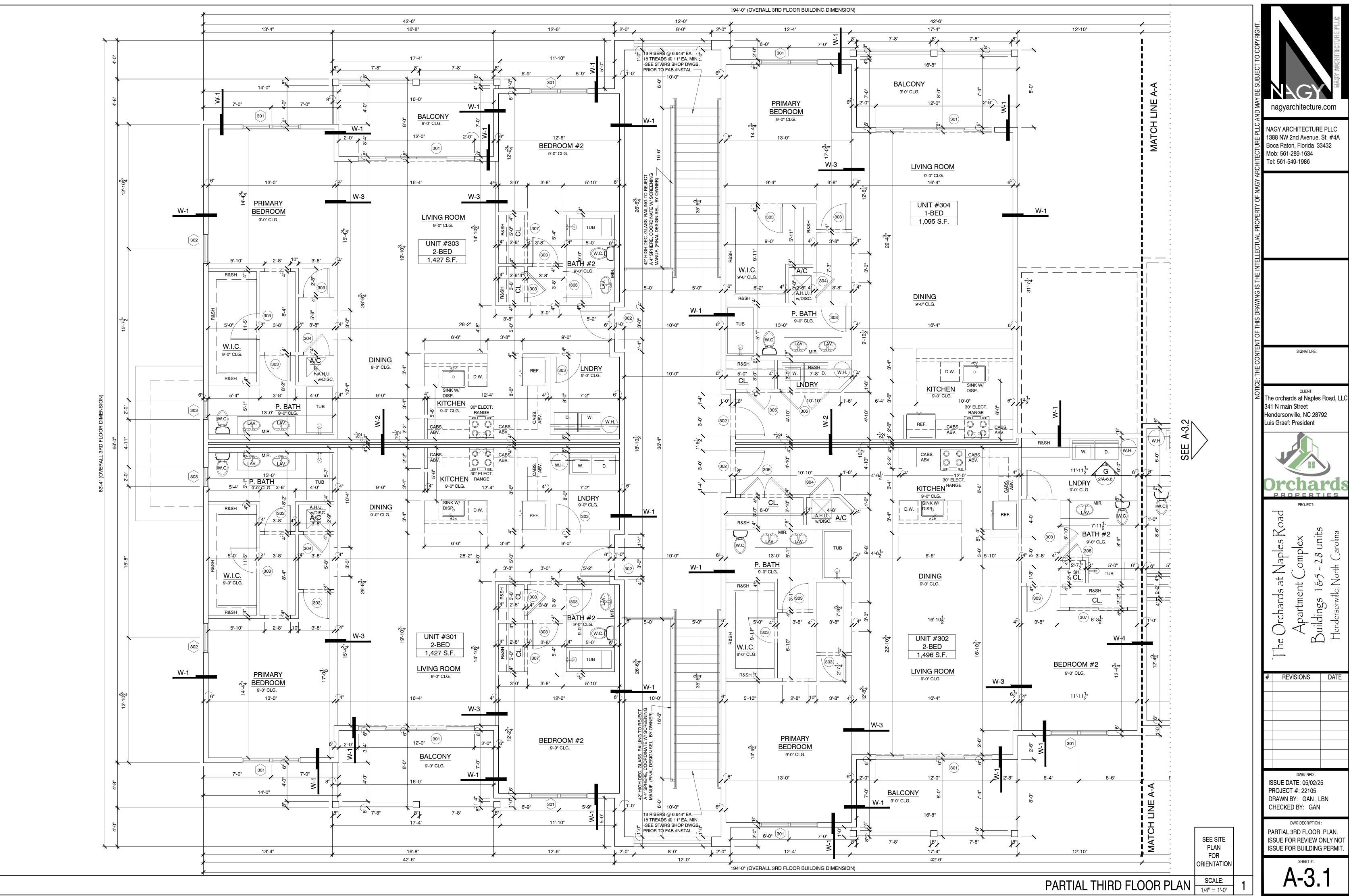


Orchards

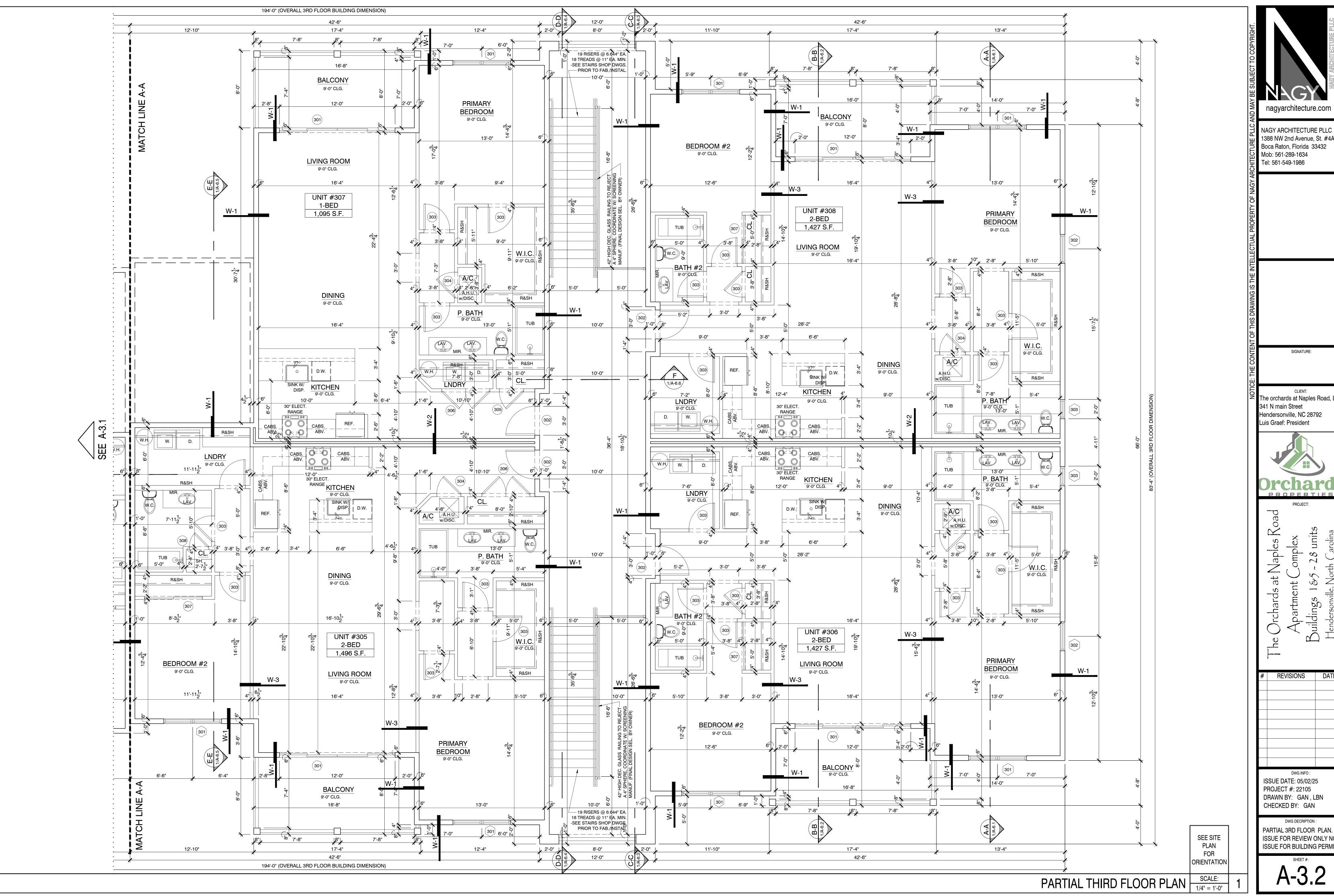
#	REVISIONS	DATE

ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN , LBN CHECKED BY: GAN

OVERALL 3RD FLOOR PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.



The orchards at Naples Road, LL0



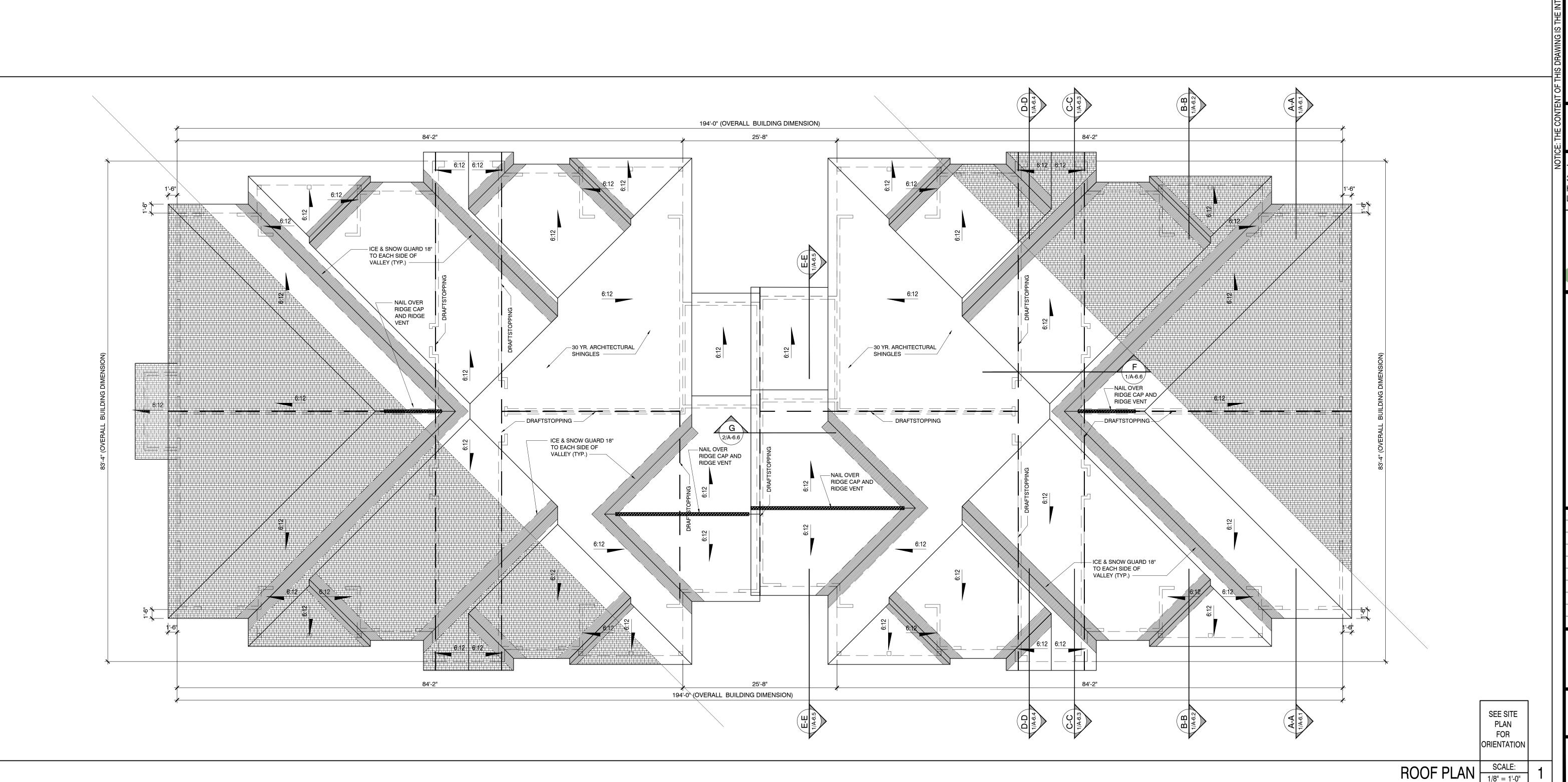
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The orchards at Naples Road, LLC Hendersonville, NC 28792



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PARTIAL 3RD FLOOR PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT



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rchards at Naples Road

REVISIONS DATE

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DWG DECRIPTION: ROOF PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.

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

1 COMPOSITE LAP SIDING - MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER. - CEDAR TEXTURE 76 SERIES LAP. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL. 2 COMPOSITE LAP PANEL SIDING - MANUFACTURER - LP SMARTSIDE.

- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). <u>VERIFY COLOR WITH OWNER.</u> 2a BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)

- MANUFACTURER - 2-1/ 2" LP SMARTSIDE 190 SERIES. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER. 3 COMPOSITE SKIRT BOARD TRIM

- MANUFACTURER - 11.21" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. VERIFY COLOR WITH OWNER.

4 42" HIGH ALUM. GUARDRAIL & BALUSTERS TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)

5 BALCONY COLUMNS

- 6X6 PT WOOD COLUMS. - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS 6 FRONT AND REAR GABLES & ACCENT UPPER

- MANUFACTURER - LP SMARTSIDE. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER. - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.

6 FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER. - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIALS.

7 WINDOW & CORNER TRIM

- MANUFACTURER - 3-1/ 2" LP SMARTSIDE 440 SERIES. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. <u>VERIFY COLOR WITH OWNER</u>.

8 COMPOSITE CLADDING

ORDER FOR THE MATERIALS.

- MANUFACTURER - NICHIHA BRICK SERIES. - COLOR AND STYLE - PLYMOUTH BRICK. - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - G.C. SHALL SUMMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING

9 BELT LINE TRIM BOARD

MANUFACTURER - 3-1/2" LP SMARTSIDE 540 SERIES. - CEDAR TEXTURE SHAKES 38 SERIES. - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. VERIFY COLOR WITH OWNER.

EXTERIOR FINISHES

- MANUFACTURER - ATLAS ROOFING, PINNACLE HP - HIGH PERFORMANCE - ARCHITECTURAL SHINGLE - SIGNATURE GOLD SERIES SHINGLE. - ASPHALT COMPOSITION SHINGLES. - ARCHITECTURAL SHINGLE, CLASS C UL RATING. - 130 MPH WIND RESISTANCE WARRANTY, 35 YEAR LIMITED WARRANTY.

- COLOR: WEATHERED WOOD. 11 COMPOSITE PANEL SIDING

MANUFACTURER - LP SMARTSIDE. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE) - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.

12 BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

- LP SMARTSIDE. - CEDAR TEXTURE PANEL SIDING (NICKLE GAP (7.88"). - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL). - COLOR: LIGHT GREEN - VERIFY WITH OWNER.

14 FASCIA BOARD

- CEDAR TEXTURE PANEL (38 SERIES) - COLOR: WHITE - VERIFY WITH OWNER. - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

14a <u>EAVE SOFFIT (NOT SHOWN)</u>

- LP SMARTSIDE (38 SERIES). - CEDAR TEXTURE PANEL VENTED SOFFIT. - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - COLOR: WHITE. VERIFY COLOR WITH OWNER.

14b BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES). - CEDAR TEXTURE NON VENTED. (76 SERIES). - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

- BREAK METAL FASCIA - VERIFY WITH OWNER.

FRIEZE BOARD

- LP SMARTSIDE 7.21" (540 SERIES). - CEDAR TEXTURE PANEL (38 SERIES) - COLOR: WHITE - VERIFY WITH OWNER. - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE.

-CONNECT ALL DOWNSPOUTS TO COMMON COLLECTOR LINE (TYP.) - SEE CIVIL PLANS.

- INSTALL CORNER GUARD AT 90° GUTTER CORNERS TO PREVENT OVERSPILL AT ROOF VALLEYS.

EXTERIOR DOORS

- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

EXHAUST AND VENT HOODS

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.

T.O. DBL. PL. / 3RD FL. ROOF TRUSS BRNG. 14 15 — — 12 — 4 — 15 301 1-HR. EXT. WALL ASSEMBLY # - U356 T.O. SUB FL./ 3RD FL. T.O. DBL. PL. / 3RD FL. FLOOR TRUSS BRNG. 1-HR. EXT. WALL ASSEMBLY # - U356 12 201) 201 **—** 4 201 10 T.O. SUB FL./ 2ND FL. T.O. DBL. PL. / 2ND FL FLOOR TRUSS BRNG. 12 _____11 101 101 8 8 <u>T.O.</u> SLA<u>B./ 1ST.</u> F<u>L</u>. 8 8 8 8

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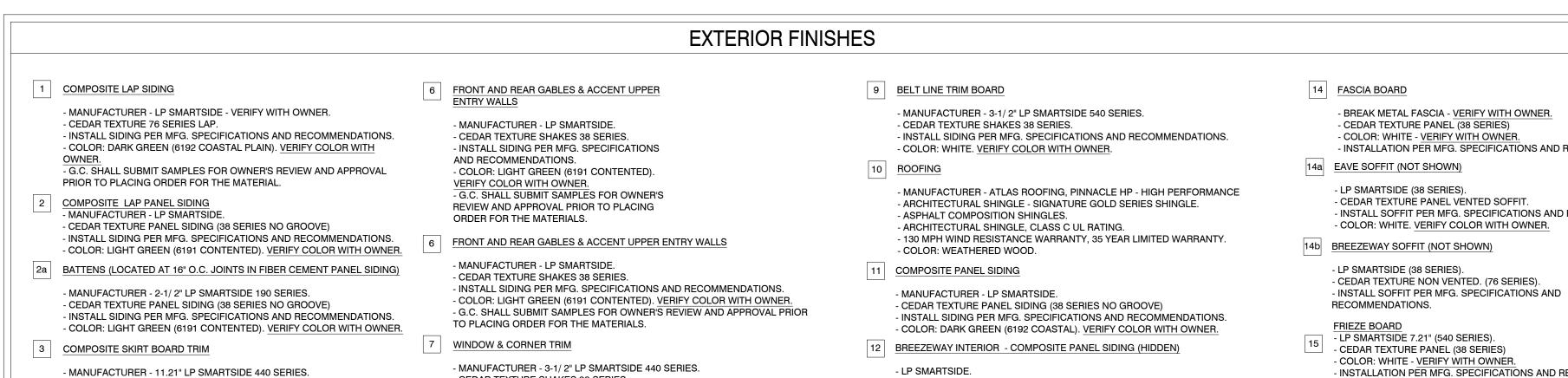
Orchards

Road sat Naples | 185 Buildings

REVISIONS

ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN, LBN CHECKED BY: GAN

DWG DECRIPTION: PARTIAL FRONT ELEVATION ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.



- CEDAR TEXTURE SHAKES 38 SERIES.

8 COMPOSITE CLADDING

- COLOR: WHITE. VERIFY COLOR WITH OWNER.

- MANUFACTURER - NICHIHA BRICK SERIES.

- COLOR AND STYLE - PLYMOUTH BRICK.

ORDER FOR THE MATERIALS.

- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

- INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

- G.C. SHALL SUMMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING

- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)

TO REJECT A 4" SPHERE (FINAL DESIGN SEL. BY OWNER)

- COLOR: PAINT WHITE TO MATCH WINDOW TRIMS

- COLOR: WHITE. VERIFY COLOR WITH OWNER.

4 42" HIGH ALUM. GUARDRAIL & BALUSTERS

5 BALCONY COLUMNS

- 6X6 PT WOOD COLUMS.

- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

- LP SMARTSIDE.

13 "Z" FLASHING

- CEDAR TEXTURE PANEL SIDING (NICKLE GAP (7.88").

- COLOR: LIGHT GREEN - VERIFY WITH OWNER.

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

- INSTALL SIDING PER MFG. SPECIFICATIONS AND RÉCOMMENDATIONS (VERTICAL).

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY) - SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC DOWNSPOUTS SHALL CONNECT TO AN UNDERGROUND DRAIN LINE AND EXTEND TO DRAIN INLET OR TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON UNDERGROUND DRAIN LINES. - PAINT WHITE. -CONNECT ALL DOWNSPOUTS TO COMMON COLLECTOR LINE (TYP.) - SEE CIVIL PLANS. - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. - INSTALL CORNER GUARD AT 90° GUTTER CORNERS TO PREVENT OVERSPILL AT ROOF VALLEYS. EXTERIOR DOORS - COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN. - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS. EXHAUST AND VENT HOODS - PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.

- INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.



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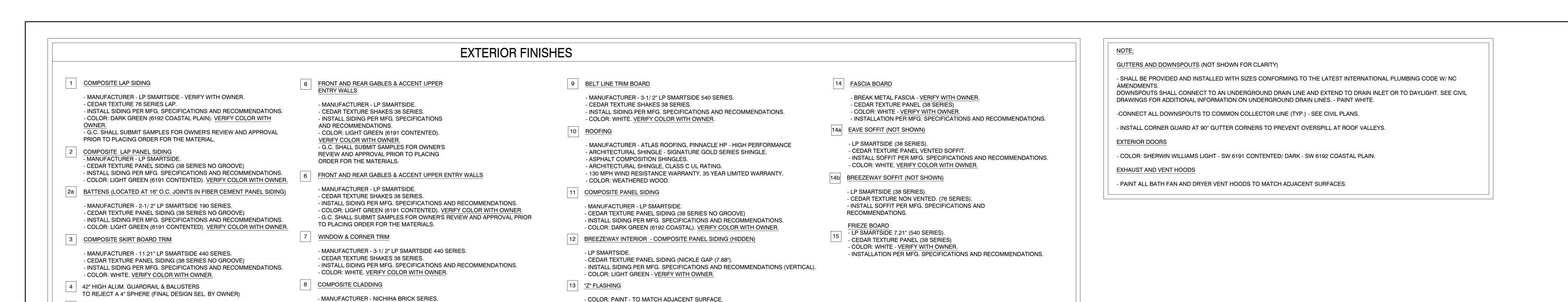
Orchards

at Naples |

REVISIONS

ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN , LBN CHECKED BY: GAN

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- COLOR AND STYLE - PLYMOUTH BRICK.

ORDER FOR THE MATERIALS.

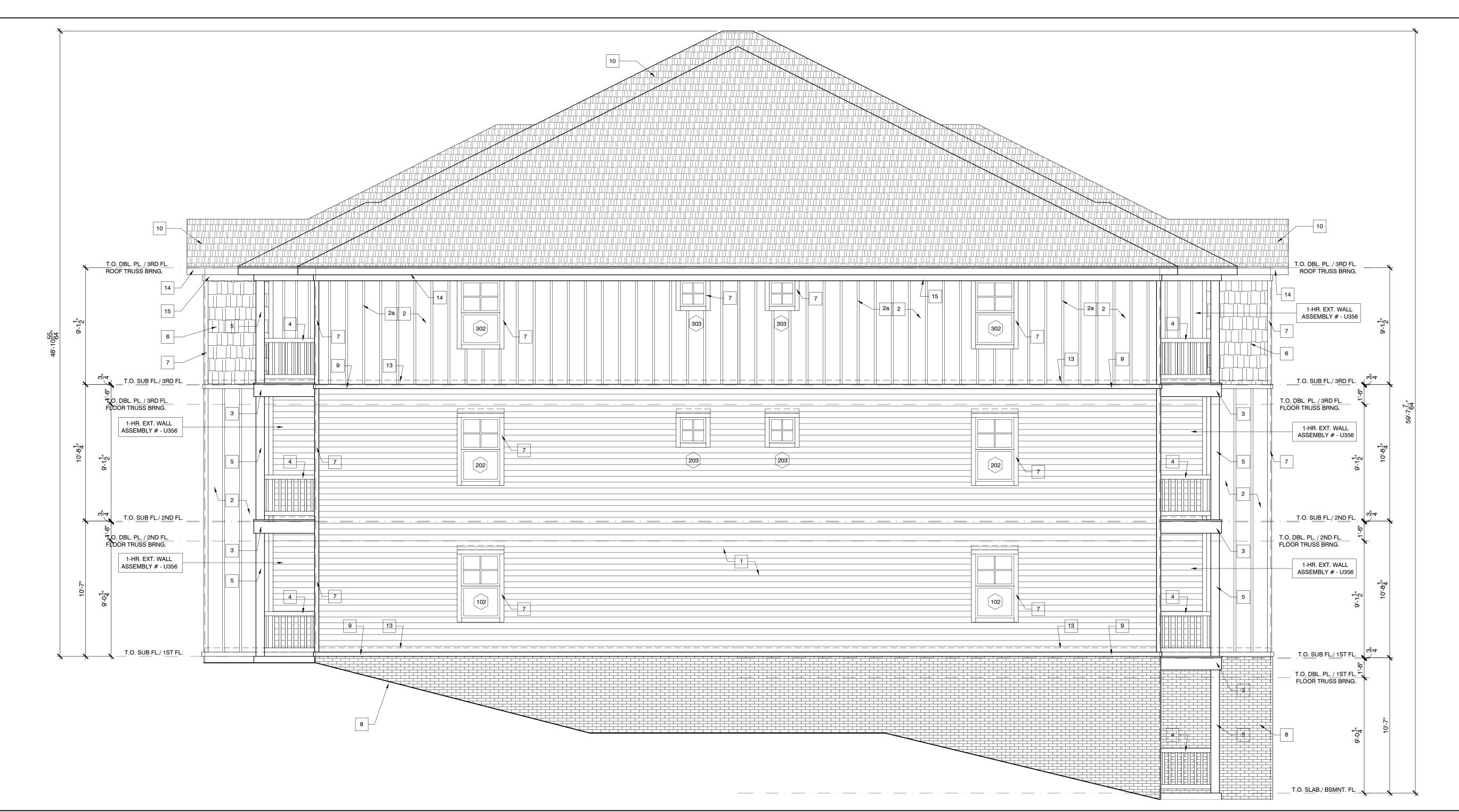
- INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

- G.C. SHALL SUMMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING

5 BALCONY COLUMNS

- 6X6 PT WOOD COLUMS.

- COLOR: PAINT WHITE TO MATCH WINDOW TRIMS



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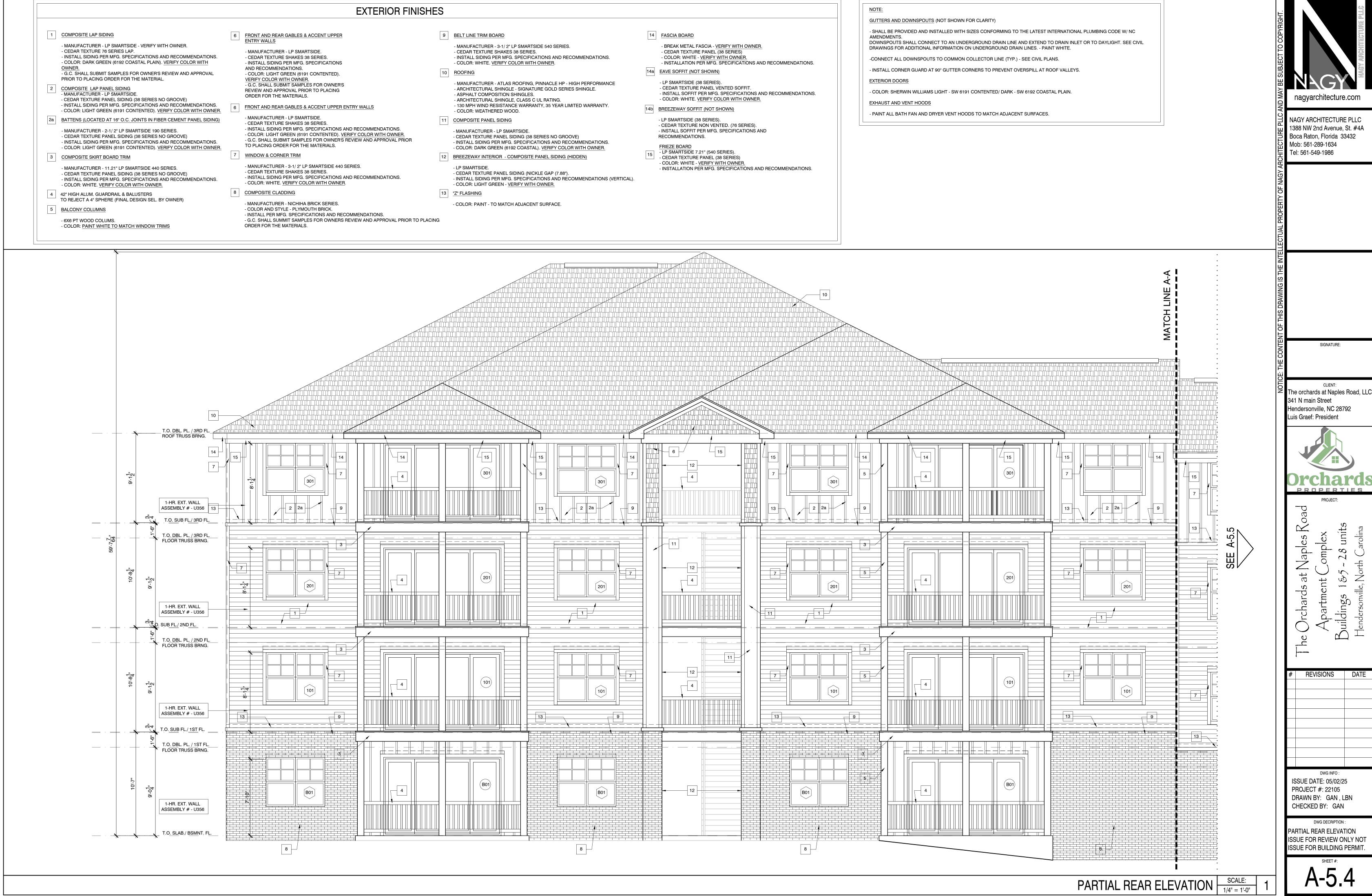
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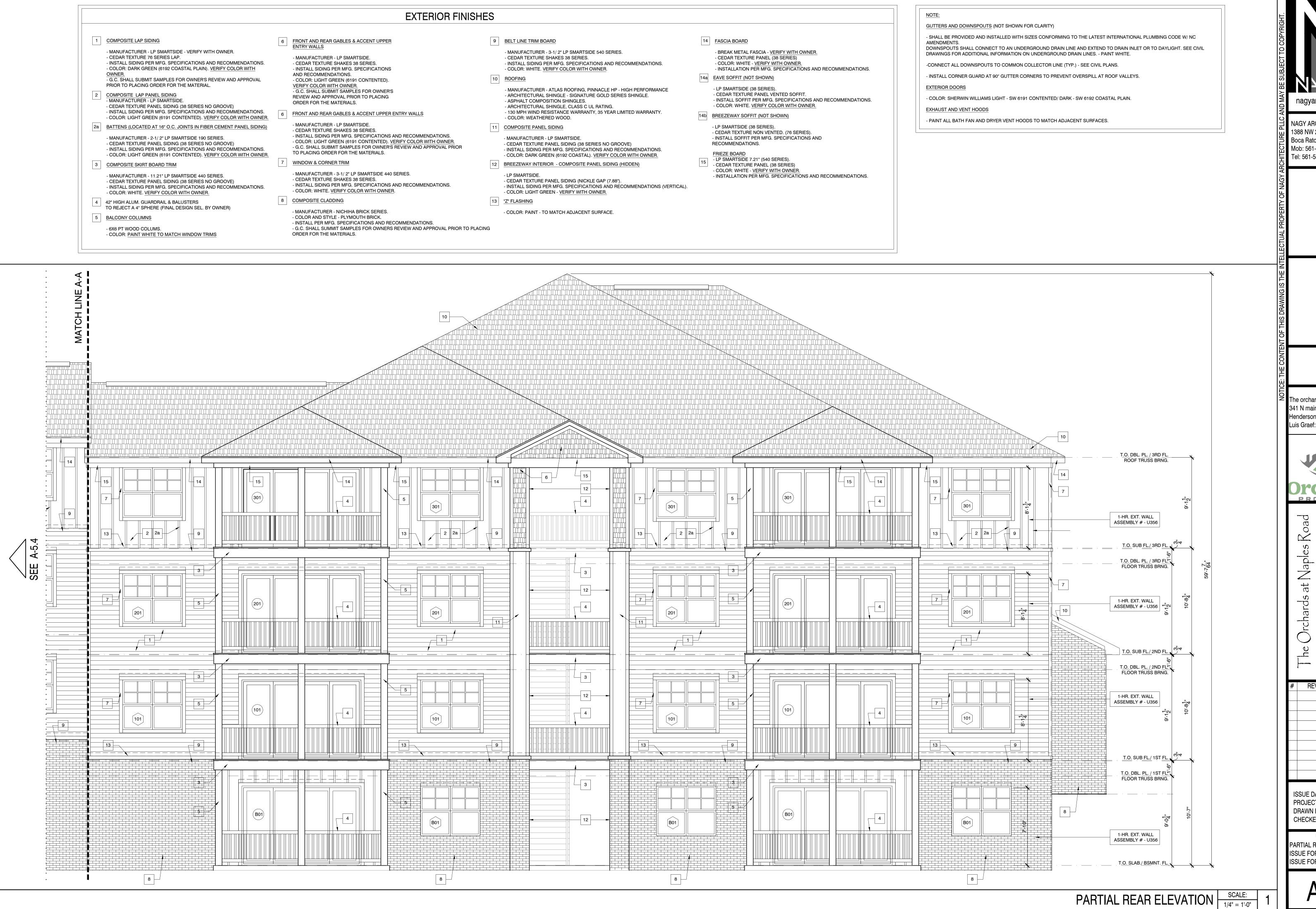
at Naples | rchards

REVISIONS

ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN, LBN CHECKED BY: GAN

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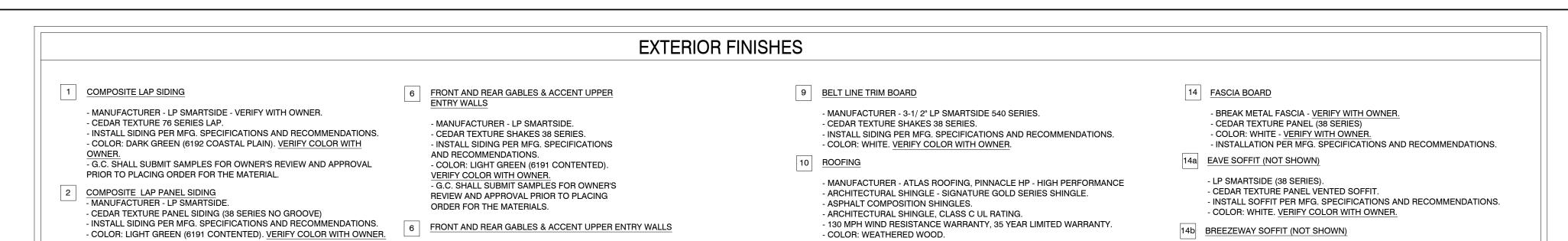
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REVISIONS

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11 COMPOSITE PANEL SIDING

- LP SMARTSIDE.

13 <u>"Z" FLASHING</u>

- MANUFACTURER - LP SMARTSIDE.

- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)

BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

- CEDAR TEXTURE PANEL SIDING (NICKLE GAP (7.88").

- COLOR: LIGHT GREEN - VERIFY WITH OWNER.

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).

- COLOR: DARK GREEN (6192 COASTAL). VERIFY COLOR WITH OWNER.

- MANUFACTURER - LP SMARTSIDE.

7 WINDOW & CORNER TRIM

8 COMPOSITE CLADDING

- CEDAR TEXTURE SHAKES 38 SERIES.

TO PLACING ORDER FOR THE MATERIALS.

- CEDAR TEXTURE SHAKES 38 SERIES.

- COLOR: WHITE. VERIFY COLOR WITH OWNER.

- MANUFACTURER - NICHIHA BRICK SERIES.

- COLOR AND STYLE - PLYMOUTH BRICK.

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- COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.

- G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR

2a BATTENS (LOCATED AT 16" O.C. JOINTS IN FIBER CEMENT PANEL SIDING)

- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

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4 42" HIGH ALUM. GUARDRAIL & BALUSTERS

- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)

3 COMPOSITE SKIRT BOARD TRIM

5 BALCONY COLUMNS

- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)

4a EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
- CEDAR TEXTURE PANEL VENTED SOFFIT.
- INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: WHITE. VERIFY COLOR WITH OWNER.

4b BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
- CEDAR TEXTURE NON VENTED. (76 SERIES).
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FRIEZE BOARD
- LP SMARTSIDE 7.21" (540 SERIES).
- CEDAR TEXTURE PANEL (38 SERIES).
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- COLOR: WHITE - VERIFY WITH OWNER.

- INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

MOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

- SHALL BE PROVIDED AND INSTALLED WITH SIZES CONFORMING TO THE LATEST INTERNATIONAL PLUMBING CODE W/ NC AMENDMENTS.

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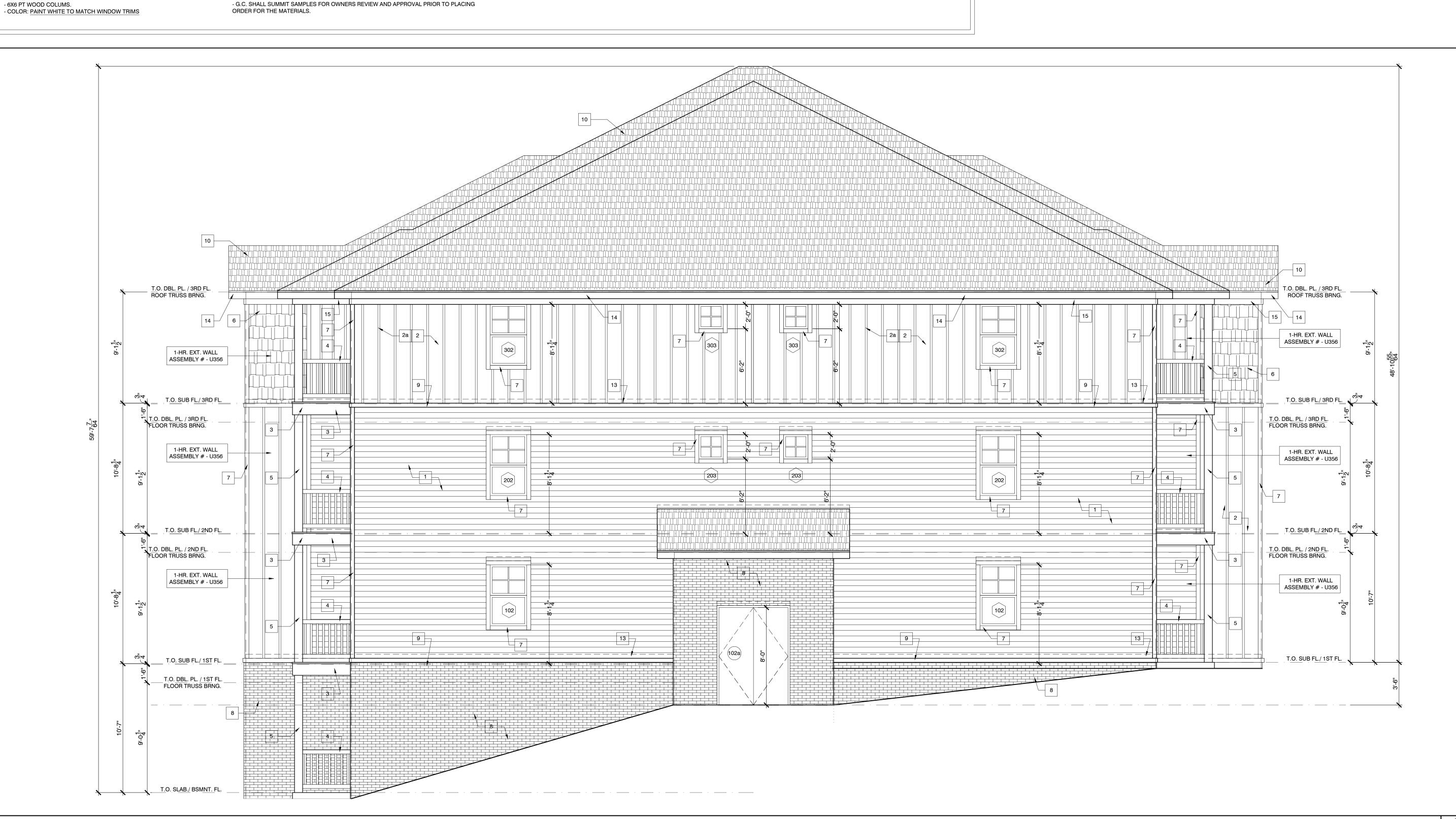
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EXTERIOR DOORS

- COLOR: SHERWIN WILLIAMS LIGHT - SW 6191 CONTENTED/ DARK - SW 6192 COASTAL PLAIN.

EXHAUST AND VENT HOODS

- PAINT ALL BATH FAN AND DRYER VENT HOODS TO MATCH ADJACENT SURFACES.



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i at Naples Road at the Complex its Complex is \$5 - 28 units in North Carolina

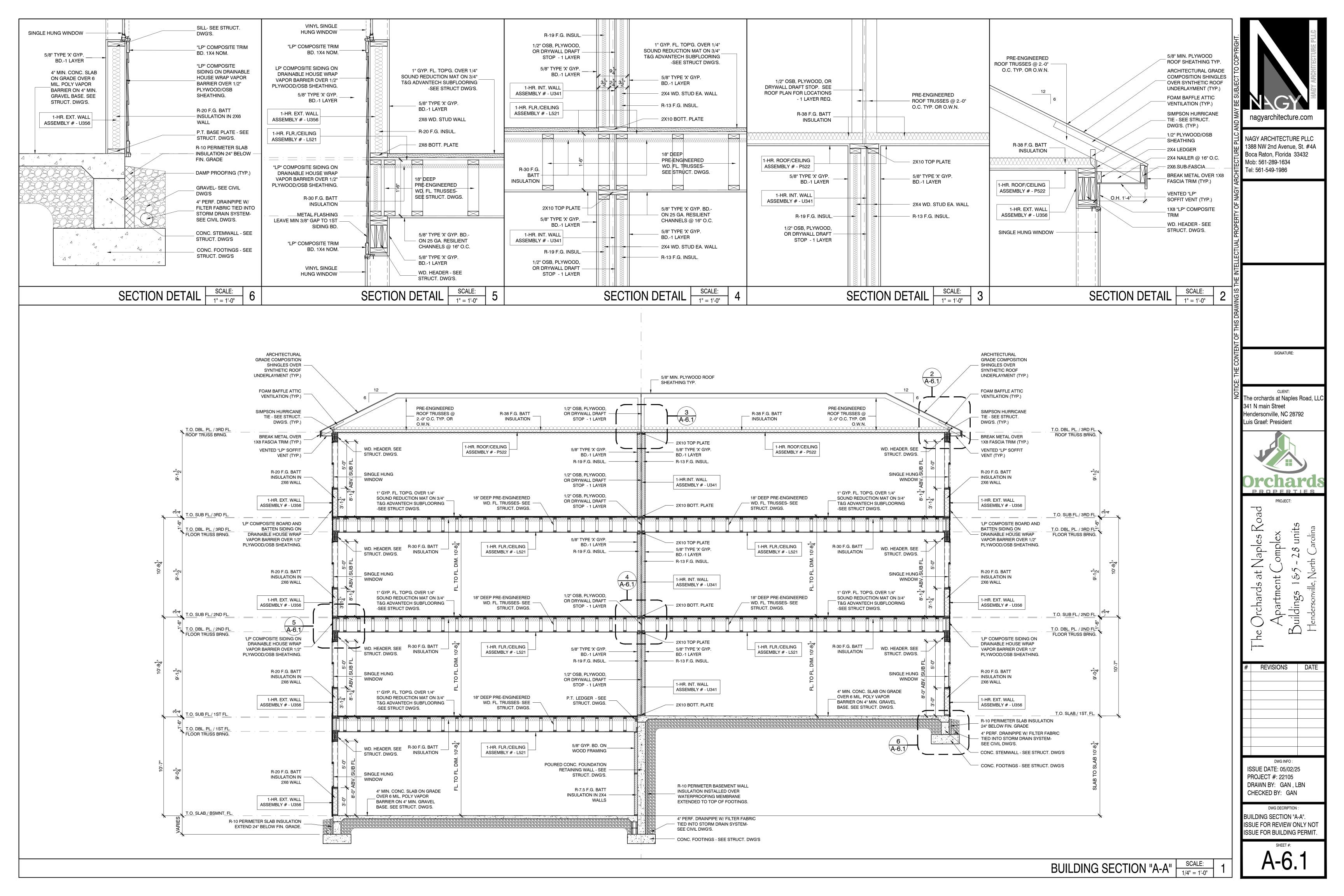
Apartment Comp Buildings 185-28

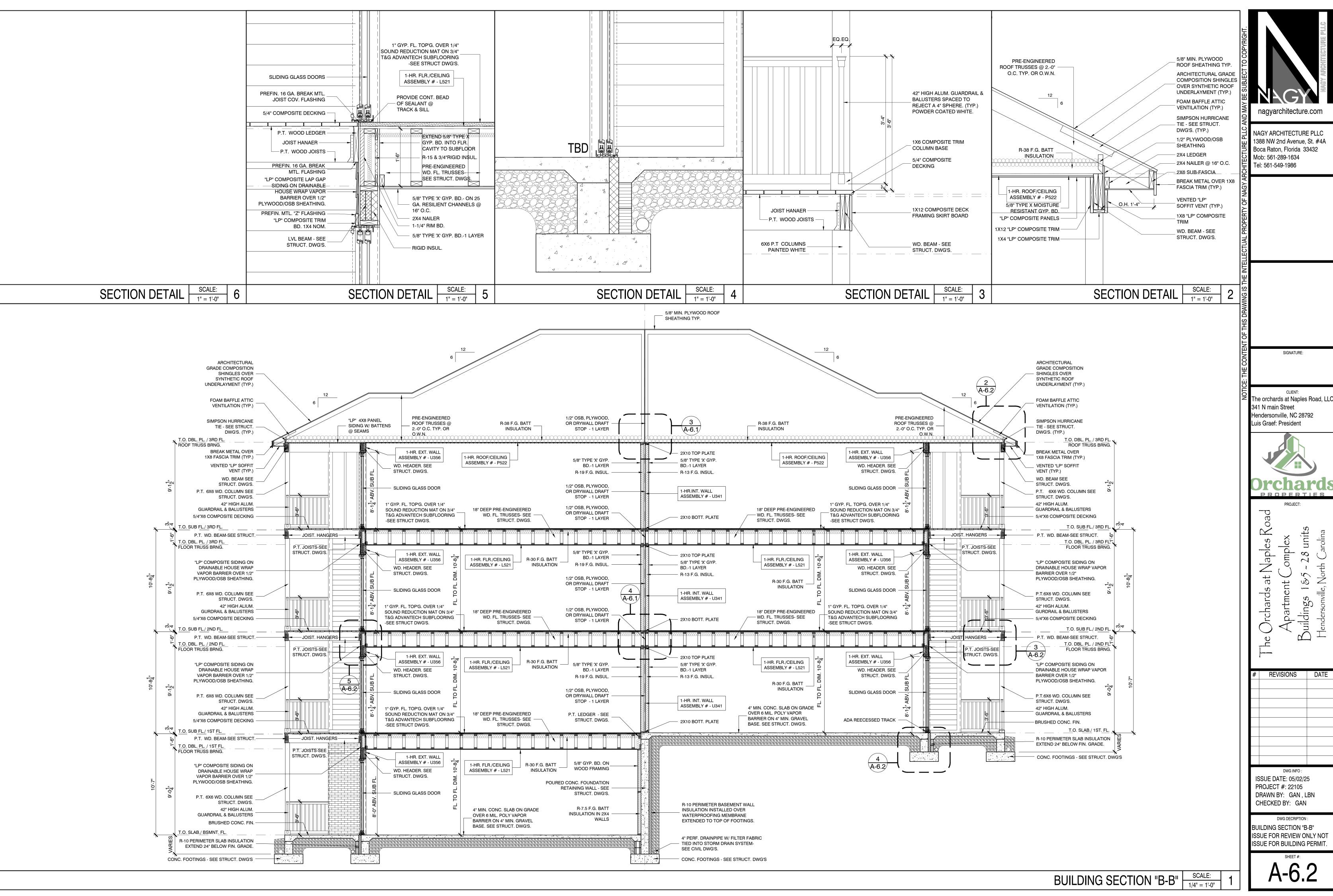
REVISIONS DATE

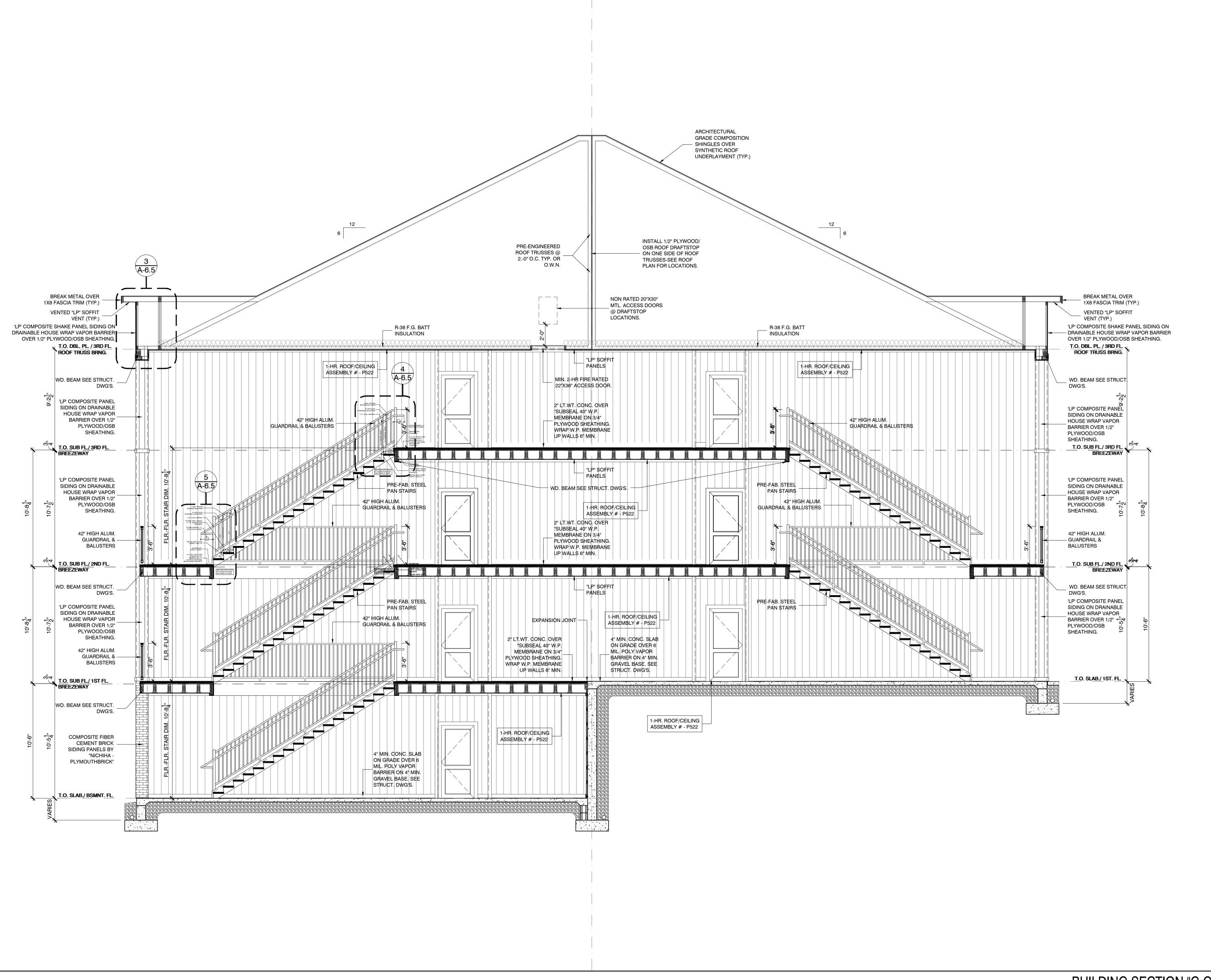
DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
DRAWN BY: GAN, LBN
CHECKED BY: GAN

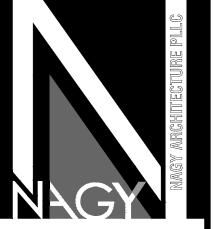
DWG DECRIPTION:
LEFT SIDE ELEVATION
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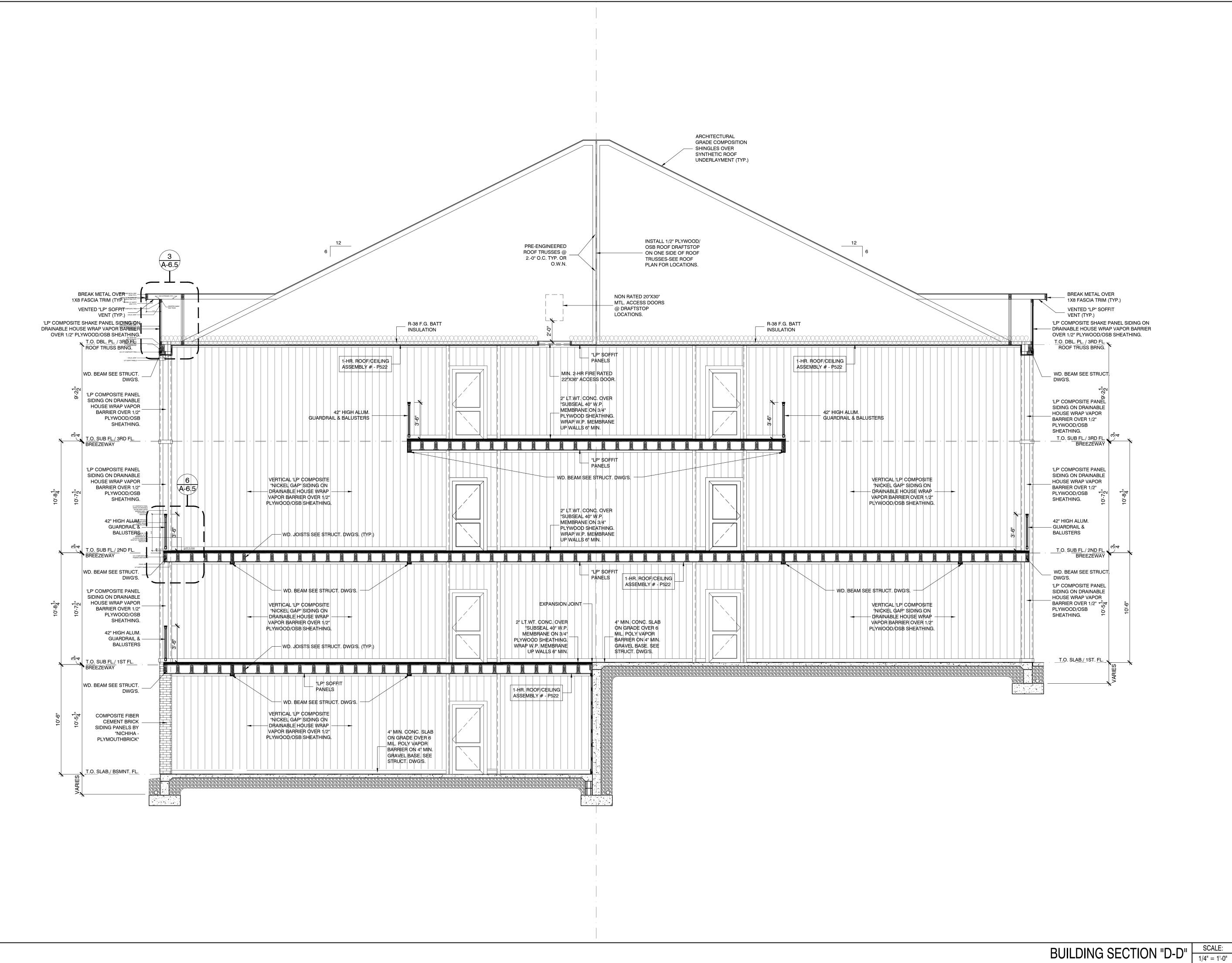


PROPERTIES

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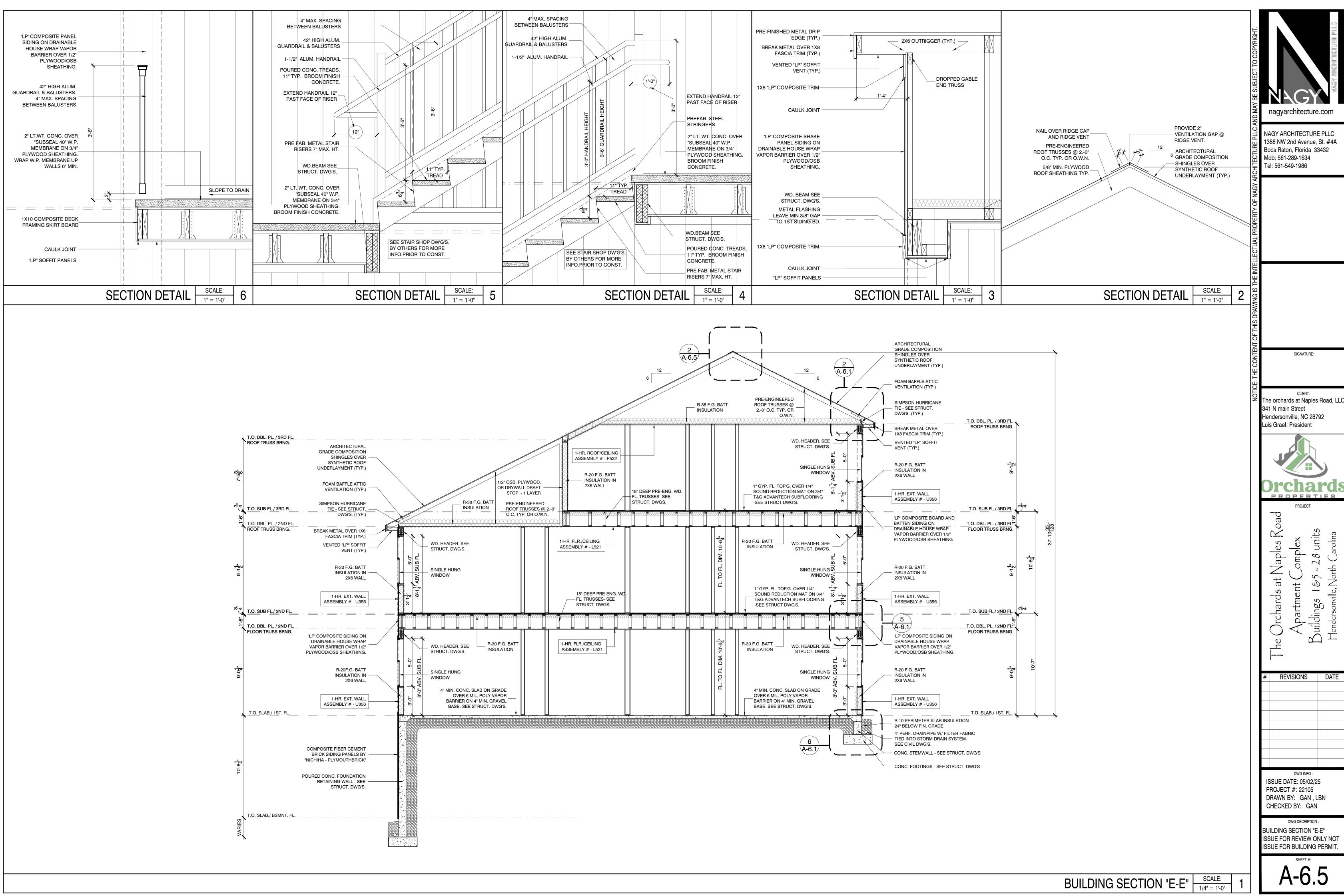
PROPERTIES

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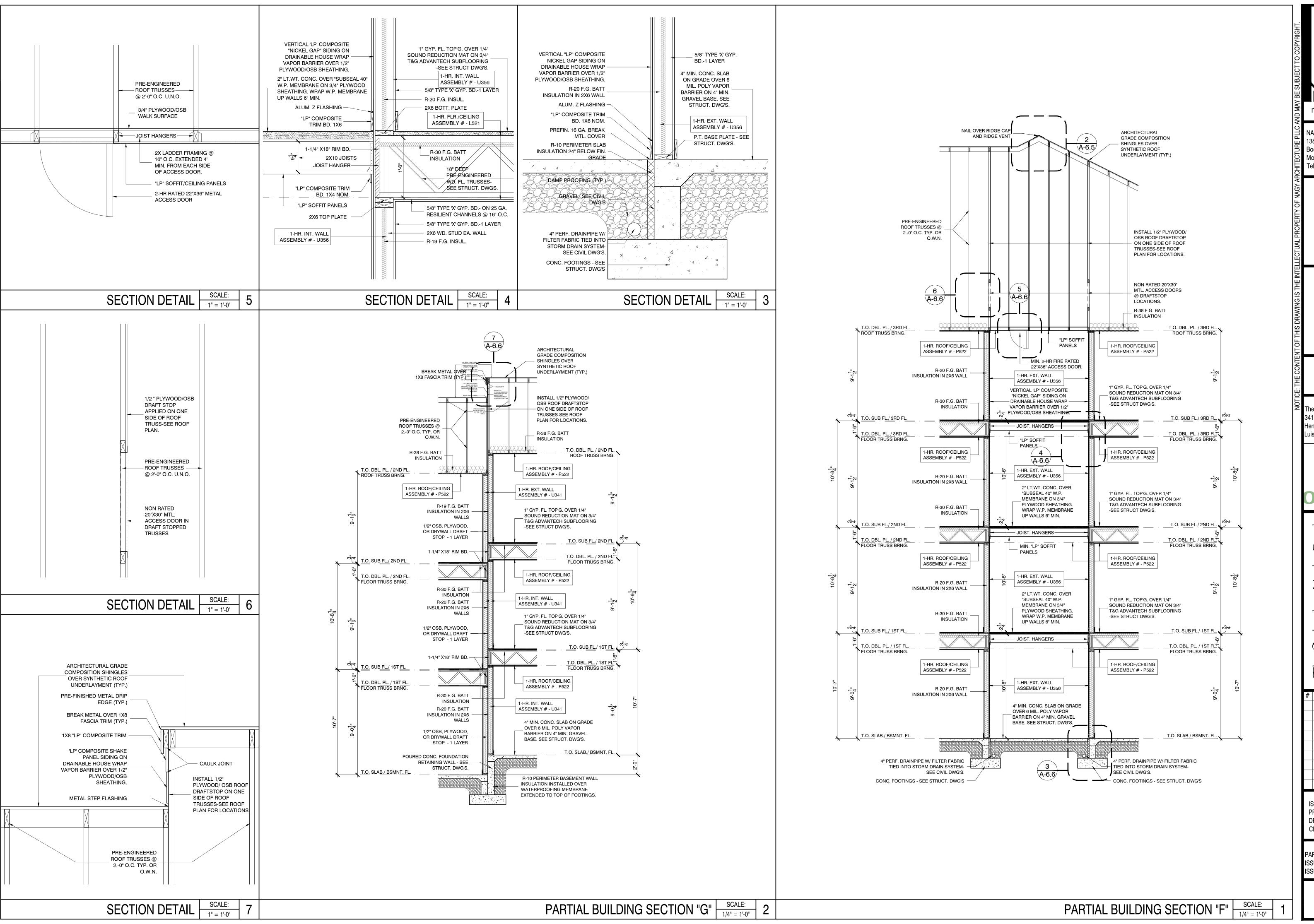
REVISIONS

ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN , LBN CHECKED BY: GAN

DWG DECRIPTION: BUILDING SECTION "D-D" ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.







NAGY ARCHITECTURE PLLC

nagyarchitecture.com

NAGY ARCHITECTURE PLLC 1388 NW 2nd Avenue, St. #4A Boca Raton, Florida 33432 Mob: 561-289-1634 Tel: 561-549-1986

CLIENT:
The orchards at Naples Road, LL0
341 N main Street
Hendersonville, NC 28792
Luis Graef: President

SIGNATURE:



PROPERTIES
PROJECT:

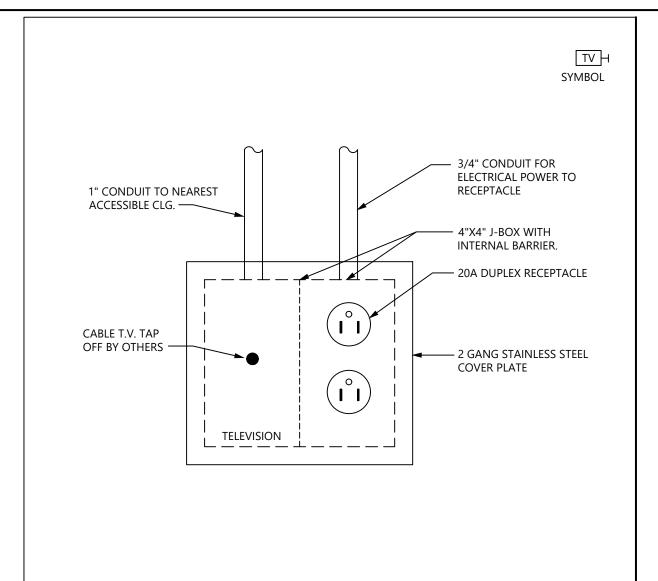
he Orchards at Naples Road
Apartment Complex
Buildings 185-28 units

REVISIONS DATE

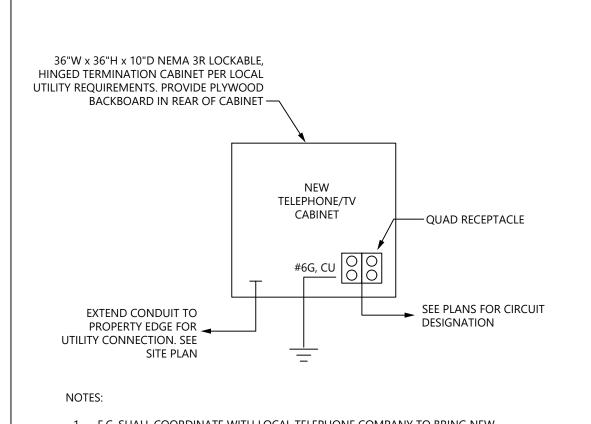
ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN, LBN CHECKED BY: GAN

DWG DECRIPTION:
PARTIAL BLG. SECTION F & G
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

A-6 6



TYPICAL TELEVISION OUTLET DETAIL



- 1. E.C. SHALL COORDINATE WITH LOCAL TELEPHONE COMPANY TO BRING NEW TELEPHONE SERVICE TO SITE
- PROVIDE 1"C WITH PULL STRING TO EACH TENANT SPACE. SEE ELECTRICAL FLOOR PLANS FOR MORE INFORMATION.
- 3. THIS DETAIL IS TYPICAL OF BOTH TELECOM AND TV CABINETS. PROVIDE (1) FOR EACH SERVICE. COORDINATE WITH OWNER ON REQUIREMENTS.

TYPICAL TELEPHONE/TV RISER DIAGRAM

	LIGHT FIXTURE SCHEDULE								
TYPE	DESCRIPTION	LUMENS	ССТ	WATTS	DRIVER	VOLTAGE	MANUFACTURER	MODEL	REMARKS
А	6" ROUND SURFACE MOUNTED DOWNLIGHT	1,000	3000K	15W	INTEGRAL LED DRIVER	120V	PRESCOLITE	LBSD-RD	MATTE WHITE FINISH FIELD SELECTABLE LUMENS SWITCHABLE CCT
В	BREEZEWAY EXTERIOR WALL LIGHT	546	3000K	12.5W	INTEGRAL LED DRIVER	120V	LIGHTWAY	MENW-600-LED-F	VERIFY FINISH WITH ARCHITECT WET LOCATION LISTED
С	6"Wx12"H EXTERIOR PATIO LIGHT	1,000	3500K	12W	INTEGRAL LED DRIVER	120V	LIGHTWAY	MENW-600-LED-F	VERIFY FINISH WITH ARCHITECT WET LOCATION LISTED
D	4 FT. LED STRIP	5,000	3500K	42W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	COOPER	SNX	PROVIDE CHAIN FOR PENDANT MOUNTING PROVIDE WIRE GUARD LENSED DLC LISTED
E1	EXTERIOR EMERGENCY BATTERY EGRESS LIGHT AIMABLE	-	3500K	2W	INTEGRAL LED DRIVER	120V	EXIT LIGHT CO.	EL-LWET	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY WHITE
E2	EXTERIOR EMERGENCY BATTERY EGRESS LIGHT AND EXIT COMBO	-	3500K	3W	INTEGRAL LED DRIVER	120V	EXIT LIGHT CO.	WLFCOMBO	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY WET LOCATION LISTED RATED FOR OUTDOOR USE WHITE HOUSING, RED LETTERING

1	ALL FIXTURES SHALL BE LED UNLESS OTHERWISE SPECIFIED. COLOR TEMPERATURE SHALL BE 3500K UNLESS OTHERWISE NOTED.
2	LED DRIVERS SHALL BE PROVIDED AS PER MANUFACTURER RECOMMENDATIONS.
3	COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.

SUSPEND ALL FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.

FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SUPPLIED WITH 1100 LUMEN INVERTERS PROVIDE INTEGRAL SURGE PROTECTION ON ALL EXTERIOR LED DRIVER FIXTURE TYPES

4 FIXTURES IN FIRE RATED CEILING SHALL BE PROVIDED WITH FIRE RATED TENTS AS REQUIRED.

8 DIMMING OF FIXTURES SHALL BE WITH A SWITCH AS RECOMMENDED BY THE DRIVER MANUFACTURER. COORDINATE COMPATABILITY OF ALL SWITCHES WITH APPROVED FIXTURES PRIOR TO ORDERING. 9 THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.

10 DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.

11 NO SUBSTITUTIONS WILL BE ALLOWED DUE TO LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.

12 ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILTY OF THE CONTRACTOR. 13 FIXTURES TO BE INSTALLED IN CEILINGS, INDICATED ON ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.

14 LED DRIVERS LOCATED IN UNCONDITIONED SPACES SHALL BE RATED FOR 90 DEGREES F.

PROVIDE 90 MINUTE EMERGENCY BATTERY BACK UP. EMERGENCY BACK UP SHALL BE BASED ON TYPE OF FIXTURE, LED DRIVER, BALLAST, ETC. EMERGENCY BACKUP SHALL BE DUAL INPUT FOR BOTH SWITCHING AND CHARGING. PROVIDE UNSWITCHED "HOT" FROM LOCAL CIRCUIT UNLESS OTHERWISE INDICATED ON PLANS. PROVIDE WITH INDICATOR LIGHT. INSTALL LED INDICATOR ON LIGHT FIXTURE UNLESS DECORATIVE, DECORATIVE FIXTURES SHALL HAVE INDICATOR PLACED AT LOCAL CEILING. BODINE, PHILLIPS, POWER SENTRY OR FOUAL.

CONTRACTOR SHALL INCLUDE IN BID LABOR AND MATERIAL FOR UP TO (3) ADDITIONAL EXIT SIGNS AND (5) ADDITIONAL EMERGENCY BUGEYE FIXTURES AS REQUIRED BY LOCAL AHJ.

DEVICES AND PATHWAYS

CONDUIT AND/OR WIRING SYSTEM CONCEALED BEHIND WALL OR ABOVE CEILING. CONDUIT AND/OR WIRING SYSTEM CONCEALED IN SLAB, UNDER SLAB, OR

CIRCUIT HOMERUN TO PANEL CALLED OUT ON PLANS. EACH ARROWHEAD REPRESENTS DUPLEX RECEPTACLE MOUNTED 18"AFF UNLESS NOTED OTHERWISE. SEE

SPECIFICATIONS FOR TYPE AND EQUALS. DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER OR AT HEIGHT NOTED. MOUNT 48"

TO CENTER OF DEVICE IF NO HEIGHT NOTED AND/OR NOT SHOWN AT A COUNTER TOP. # QUAD RECEPTACLE, (2) 5-20R DUPLEX RECEPTACLES.

QUAD RECEPTACLE FOR ELECTRIC WATER COOLER. EXACT LOCATION SHALL BE COORDINATED WITH PLUMBING CONTRACTOR. PROVIDE CIRCUIT WITH GFI (CLASS-A 6mA, PERSONNEL) BREAKER.

₽ DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R.

₩ DUPLEX RECEPTACLE WITH GFI AT BREAKER. NEMA 5-20R. REFER TO PANEL SCHEDULES.

WEATHERPROOF AND GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. COVER BASED ON INTERMATIC #WP1020 (CLEAR).

JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE. WALL MOUNTED JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE. BOX SHALL BE RECESSED IN WALL WITH

NOT EXPOSED CONDUIT, UNLESS NOTED OTHERWISE. SPECIAL RECEPTACLE; SEE PLANS FOR TYPE.

TV POWER AND DATA CONNECTION, SEE DETAIL. MOUNT 72"AFF UNLESS NOTED OTHERWISE.

SIX GANG FLUSH MOUNTED FLOOR BOX WITH ACCESSIBLE COVER FOR POWER AND COMMUNICATIONS. PROVIDE FIVE NEMA 5-20R DUPLEX RECEPTACLES AND ONE COMM. PLATE WITH PROVISION FOR SIX RJ45 CAT6 JACKS. EQUAL TO WIREMOLD RFB6E-OG-8CT. ARCHITECT TO SELECT FINISH. STUB FROM BOX ONE CONCEALED 1 1/4" ROUTED TO WHICHEVER IS NEAREST, BB, J-HOOKS, OR CABLE TRAY. EQUALS: HUBBELL, THOMAS & BETTS, OR SPECIFICATION EQUAL.

LIGHTING

LED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE. LED STRIP FIXTURE. \vdash

 \circ LED LIGHTING FIXTURE.

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WALL MOUNTED LED LIGHTING FIXTURE.

FLOOR

LED DOWNLIGHT WITH AN EMERGENCY BATTERY DRIVER. BASED ON 1100 LUMEN INVERTER (SEE SCHEDULE FOR FIXTURE LUMEN MAXIMUM.)

EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. 90 MIN BATTERY BACKUP. SEE LIGHTING FIXTURE SCHEDULE.

EXTERIOR EMERGENCY FIXTURE WITH EMERGENCY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE. EMERGENCY BUGEYE FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.

EMERGENCY BUGEYE FIXTURE/EXIT SIGN COMBO FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE. SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.

THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND

INDICATES BI-LEVEL SWITCHING/DIMMING. SWITCHES DIM FIXTURES 100/50/0, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.

WALLBOX OCCUPANCY SWITCH. PIR TECHNOLOGY, AUTO-ON, 120/277V RATED. COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.

AIR SUPPLY OR RETURN **CEILING** -SMOKE, HEAT, OR CO ──96 INCHES 12", UNLESS CEILING IS DETECTOR (TO TOP OF DEVICE) HIGHER THAN 12'-0", THEN MAXIMUM (WALL) 24" ABOVE DOOR. TV OUTLET → 🖁 • FIRE ALARM HORN -OR STROBE LIGHT EXIT 80" (TO BOTTOM OF DEVICE) -MINIMUM (WALL) ALIGN WITH ROOM LIGHT ALIGN WHEN MOUNTED -ROOM LIGHT SWITCH — ON SAME WALL FIRE ALARM PULL STATION — (5' MAXIMUM FROM DOOR) COUNTER DUPLEX RECEPTACLE BACKSPLASH TELEPHONE/DATA 8" MAXIMUM TO FIRST DEVICE

1. LOCATIONS WHERE TV MOUNT IS BACK TO BACK ON SAME WALL, AN OFFSET OF 8-12" WILL BE NEEDED FOR INSTALLATION OF JACK/RECEPTACLE. 2. DEVICES ABOVE COUNTER TOPS SHALL BE A MAXIMUM OF 48" TO TOP OF DEVICE.

(3) MOUNTING HEIGHTS OF DEVICES - ELEVATION

LOW VOLTAGE (PATHWAYS ONLY)

TELE/DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND

TELE/DATA OUTLET. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.

ABOVE CEILING, STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS LOW VOLTAGE CABLING. 4" SQUARE BOX WITH A TWO-GANG OPENING. STUB 1" EC FROM BOX TO J-HOOKS OR CABLETRAY ABOVE ACCESSIBLE CEILING. PROVIDE CABLING, TERMINATIONS, AND FACEPLATE PER SPECIFICATIONS.

CIDE ALADIA

	FIRE ALARM
FACP (2)	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR
RA	FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE BOX AS REQUIRED PER MANUFACTURER RECOMMENDATION. PROVIDE 1"C CONDUIT FOR CABLING.
F	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.
₹	CEILING MOUNTED SMOKE DETECTOR. FA VENDOR PROVIDED.
(CEILING MOUNTED HEAT DETECTOR.
△ co	CEILING MOUNTED CARBON MONOXIDE DETECTOR.
<u>(1)</u>	DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, INSTALLATION OF DETECTOR. AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
SB	DETECTOR WITH SOUNDER BASE (SB).
(MC)	Multi-Criteria Detector (Smoke/Co/Heat).
15CD	ADA COMPLIANT WALL MOUNT FIRE ALARM HORN WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
) 15CD	ADA COMPLIANT WALL MOUNT FIRE ALARM STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
15CD	ADA COMPLIANT CEILING MOUNTED FIRE ALARM HORN STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
15CD	ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.

ELECTRICAL EQUIPMENT

	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
(GB)	PLYWOOD TELEPHONE BACKBOARD WITH TELECOMMUNICATIONS GROUNDING BAR. REFER TO TELECOMMUNICATIONS RISER DIAGRAM FOR DETAILS.
	PANELBOARD. REFER TO POWER RISER DIAGRAM AND PANEL SCHEDULES FOR DETAILS. TOP OF PANEL AT 6'-6" AFF.
Sm	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.

2018 NORTH CAROLINA ENERGY CONSERVATION CODE

COMMERCIAL ENERGY EFFICIENCY - ELECTRICAL SUMMARY

C401 METHOD OF COMPLIANCE

2018 NCECC CHAPTER 4 NC SPECIFIC COMCHECK PROVIDED N/A BASED ON PROJECT SCOPE ASHRAE 90.1-2013

C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS

C406.1.4 ON-SITE RENEWABLE ENERGY C406.1.1 EFFICIENT MECH EQUIPMENT C406.1.2 REDUCED LTG DENSITY C406.1.5 DEDICATED OA SYSTEM

C406.1.6 HI-EFF SERVICE WTR HTG

NOT APPLICABLE BASED ON PROJECT SCOPE

C406.1.3 ENHANCED DIGITAL LTG CNTLS

C408 - SYSTEM COMMISSIONING: BUILDING IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408.

BUILDING IS GREATER THAN 10,000 SQUARE FEET AND REQUIRES SYSTEM COMMISSIONING PER SECTION C408.

C405.2 - LIGHTING CONTROLS (MANDATORY REQUIREMENTS):

LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION C405.2, EXCEPT WHERE EXEMPT.

NOT APPLICABLE

C405.3 - EXIT SIGNS (MANDATORY REQUIREMENTS):

INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE.

NOT APPLICABLE C405.4 - INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT):

NOT APPLICABLE PER 2018 NCECC C503.1, EXCEPTION 2.G.

C405.4.1 - TOTAL CONNECTED INTERIOR LIGHTING POWER:

____12,410 WATTS SPECIFIED 25 % REDUCTION OF SPECIFIED VS. ALLOWED

(APPLICABLE IF C406.1.2 IS SELECTED)

C405.4.2 - TOTAL ALLOWABLE INTERIOR LIGHTING POWER:

METHOD OF COMPLIANCE:

SPACE-BY-SPACE METHOD BUILDING AREA METHOD

16,468 WATTS ALLOWED C405.5.1 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT):

NOT APPLICABLE

TOTAL CONNECTED EXTERIOR LIGHTING POWER:

970 WATTS SPECIFIED

TOTAL ALLOWABLE EXTERIOR LIGHTING POWER: _____2,110_ WATTS ALLOWED

C405.6 - ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS):

¬ SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP

─ R-2 BUILDINGS.

NOT APPLICABLE

C405.7 - ELECTRICAL TRANSFORMERS (MANDATORY REQUIREMENTS): ELECTRICAL TRANSFORMERS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY

☐ REQUIREMENTS PER C405.7, EXCEPT WHERE EXEMPT.

NOT APPLICABLE C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS):

ELECTRICAL MOTORS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.8, EXCEPT WHERE EXEMPT.

NOT APPLICABLE

ABBREVIATIONS

DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO MOUNTED. SEE PLANS.

NFMA 3R

ABOVE FINISHED FLOOR **AUTHORITY HAVING JURISDICTION**

AIR HANDLER UNIT

CIRCUIT BREAKER

EMPTY CONDUIT WITH PULL CORD

ELECTRICAL CONTRACTOR ELECTRIC WATER COOLER

ELECTRIC WATER HEATER FIRE ALARM CONTROL PANEL

FUSE PER NAMEPLATE LIGHTING CONTACTOR

MECHANICAL CONTRACTOR

PLUMBING CONTRACTOR

UNDERGROUND WEATHERPROOF

FLOOR

SERVICE ENTRANCE

EMERGENCY FIXTURE WITH BATTERY OR GEN. BACK-UP

EXISTING ITEM RELOCATED TO THIS LOCATION.

EXISTING ITEM TO BE RELOCATED.

EXISTING ITEM TO REMAIN.

EXISTING ITEM TO BE REPLACED.

EXISTING ITEM TO BE REMOVED.

RMS SYMMETRICAL SHORT CIRCUIT CURRENT AMPERE INTERRUPTING CAPACITY (EQUIPMENT RATING)

EMERGENCY RESPONDER RADIO COVERAGE

THE ELECTRICAL CONTRACTOR SHALL INCLUDE A SEPARATE LINE ITEM IN HIS BID PROVISIONS FOR THE EMERGENCY RESPONDER RADIO COVERAGE AS REQUIRED PER SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE (ERRC) FOR NEW BUILDINGS. BUILDING SHALL BE TESTED UPON COMPLETION OF CONSTRUCTION AND ADDITIONAL EQUIPMENT PROVIDED AS NEEDED. ALL BUILDINGS SHALL HAVE RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED UPON EXISTING COVERAGE LEVELS FO THE PUBLIC SAFETY COMMUNICATIONS SYSTEM OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. THIS SECTION SHALL NOT REQUIRE IMPROVEMENT OF THE EXISTING PUBLIC SAFETY COMMUNICATION SYSTEM.

Wilde engineering 15822 Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2182

> - PRELIMINARY -NOT FOR CONSTRUCTION

> > SIGNATURE:

The Orchards at Naples Road, L 341 N Main Street Hendersonville, NC 28792



\aple:

REVISIONS

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

DWG DECRIPTION: ELECTRICAL COVER SHEET

THIS DRAWING IS AN INSTRUMENT OF SERVICE. THE DRAWING AND THE INFORMATION THEREON IS THE PROPERTY OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDE ENGINEERING, PLLC. ANY REPRODUCTION, ALTERATION, OR USE FOR OTHER THAN THE INTENDED PROJECT, WITHOUT THE WRITTEN CONSENT OF WILDER THAN THE WRITTEN CONSENT OF WILD PROJECT, WITHOUT THE WRITTEN CONSENT OF WITHOUT THE WRITTEN CONSENT OF

- A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIAL,S AND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY
- OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS B. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTION FEES. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS. ALL ITEMS OF THE SAME
- TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, RACEWAYS, BOXES, FITTINGS, CONDUCTORS, LUMINAIRES, LAMPS, BALLASTS, WIRING DEVICES, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, SWITCHBOARDS, FIRE ALARM, TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT. ONE COMPLETE SET OF APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE JOB SITE
- ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CONDUIT, WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED AFTER BIDS HAVE BEEN ACCEPTED AND ALL COSTS WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CREDITS SHALL BE GIVEN TO THE OWNER
- WHERE SUCH EQUIPMENT AND METHODS RESULT IN LESS EXPENSE TO THE CONTRACTOR. ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE MAINTAINED AT THE JOB SITE. IN ADDITION, ALL ADDENDUMS, BULLETINS, AND/OR SKETCHES SHALL BE
- INCORPORATED INTO THE ON-SITE CONSTRUCTION PLANS AS THE JOB PROGRESSES. H. COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB SITE. ONLY CONDUIT MAY BE STORED OUTSIDE, BUT NOT IN CONTACT WITH THE GROUND. THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT.
- GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED PER NEC 250. PROVIDE AN INTERSYSTEM BONDING TERMINATION DEVICE AT THE MAIN ELECTRICAL SERVICE
- WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE M. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTROL WIRING FOR EQUIPMENT
- NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE N. ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOICE/DATA OUTLETS, LOW VOLTAGE
- CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED ACCORDING TO PANEL/RACK AND CIRCUIT NUMBER O. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK
- WILL BE APPROVED FOR FINAL PAYMENT CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER. ANY IMPERFECT MATERIALS OR WORKMANSHIP SHALL BE REPLACED WITHOUT ADDED COST TO THE PROJECT.
- Q. IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM. R. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT,

CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR,

- PRODUCT OPTIONS, ACCESSORIES AND INCIDENTAL MATERIALS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION. THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL PROVIDE (SEE DEFINITION ABOVE) ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY WITH CODE
- REQUIREMENTS T. CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL OUTLET LOCATIONS WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND MILLWORK SHOP DRAWINGS PRIOR TO
- U. ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, UNLESS
- V. CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. UPON SUCCESSFUL COMPLETION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD IN THE FORM OF A LETTER STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN THE STATE BUILDING CODE, THE NATIONAL FLECTRICAL CODE (NEC), NEPA 101, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY
- W. IF DURING THE COURSE OF WORK, THE CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS. THE NEC. OR OTHER CODES OR REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.
- WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK OR ORDERING ANY MATERIALS. NO ADDITIONAL COSTS SHALL BE VARRANTED WITHOUT A CHANGE TO THE PROJECT SCOPE
- Y. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TEMPORARY POWER AND LIGHTING FOR ALL TRADES. AT NO TIME SHALL EXISTING BUILDING POWER SYSTEMS BE UTILIZED WITHOUT WRITTEN PERMISSION FROM THE OWNER.
- Z. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY. WHERE MORE THAN ONE SERVICE IS SUPPLIED TO A BUILDING, PROVIDE IDENTIFICATION AT EACH SERVICE PER NEC 230-2(E).
- AA. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE AB. THE CONTRACTOR SHALL PROVIDE A MINIMUM TWO WEEK NOTICE FOR ANY PLANNED UTILITY
- OUTAGES. WRITTEN AUTHORIZATION FROM THE OWNER SHALL BE PROVIDED PRIOR TO ANY OUTAGE ALL PLANNED UTILITY OUTAGES SHALL BE COORDINATED WITH THE OWNER TO OCCUR DURING NON-OPERATING TIMES, INCLUDING NIGHTS, WEEKENDS AND HOLIDAYS. ALL PLANNED UTILITY OUTAGES SHALL INCLUDE PROVISIONS FOR PROPER BACK-UP OF ALL LIFE-SAFFTY SYSTEMS AND INCLUDE AN APPROVED FIRE-WATCH PROGRAM AS REQUIRED BY THE LOCAL FIRE

2. <u>RACEWAY:</u>

- A. CONDUIT SHALL BE MANUFACTURED BY ALLIED, WHEATLAND, REPUBLIC CONDUIT, WESTERN TUBE, OR APPROVED EQUIVALENT.
- B. FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE. USE SCHEDULE 40 PVC BELOW CONCRETE SLAB, IN DUCTBANKS, AND FOR EXTERIOR WORK WHERE NOT SUBJECT TO DAMAGE. USE IMC WHERE SUBJECT TO PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION GLAND TYPE, OF MALLEABLE STEEL. CONNECTORS SHALL
- HAVE INSULATED THROATS. CAST, SET SCREW, OR INDENTER TYPE FITTINGS ARE NOT ACCEPTABLE. ALL FITTINGS FOR EMT SHALL BE MADE OF STEEL ALL RACEWAY SHALL BE RUN CONCEALED, UNLESS OTHERWISE NOTED. FISH ALL NEW OUTLETS IN EXISTING WALLS, WHERE POSSIBLE. ALL RUNS SHALL BE NEAT AND SOUARE
- E. LOW VOLTAGE CABLING NOT SPECIFIED TO BE INSTALLED IN CONDUIT, SHALL BE INSTALLED IN A CABLE TRAY SYSTEM OR J-HOOK SYSTEM CONSISTING OF MINIMUM 2" DIAMETER HOOKS LOCATED ON 3'-0" CENTERS IN ALL ACCESSIBLE CEILINGS. WHERE THERE ARE INACCESSIBLE
- CEILINGS, PROVIDE CONDUIT FOR ENTIRE LENGTH OF INACCESSIBILITY. RACEWAYS USED FOR LOW VOLTAGE SYSTEMS SUCH AS TELECOMMUNICATIONS, FIRE ALARM, SECURITY, CCTV, CONTROLS, AND SIMILAR CONDUITS ABOVE THE CEILING AND BACKBOARD(S) SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS AT EACH CONDUIT TERMINATION. THESE BUSHINGS SHALL BE BE INSTALLED PRIOR TO PULLING LOW-VOLTAGE CABLES.
- G. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT ROOF CURB.
- SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES, WHETHER EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED.
- WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED **EXPANSION FITTINGS WITH BONDING JUMPERS.** K. MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK.
- PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY
- M. LIQUID-TIGHT METAL CONDUIT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO EQUIPMENT AND ALL OTHER ROTATING AND VIBRATING EQUIPMENT, MAXIMUM LENGTH OF 3'-0". N. FLEXIBLE METAL CONDUIT, MINIMUM SIZE 3/8", SHALL ONLY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES, MAXIMUM LENGTH OF 6'-0".
- O. PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360°. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE RGS.
- P. ALL CONDUIT BENDS/ELBOWS EMERGING FROM UNDERGROUND SHALL BE IMC AND SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
- Q. ALL UNDERGROUND RACEWAYS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM BITUMASTIC. R. ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE
- WATERTIGHT BY USE OF POLYETRA-FLUOROETHYLENE TAPE. THE USE OF AC OR NM CABLE IS NOT PERMITTED. MC CABLE MAY ONLY BE UTILIZED WHERE PERMITTED BY CODE AND IT SHALL ONLY BE ALLOWED WHERE CONCEALED BEHIND HARD WALLS AND HARD CEILINGS. MC CABLE SHALL NOT BE

3. OUTLET BOXES:

- A. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL. ACCEPTED MANUFACTURERS SHALL BE STEEL CITY (THOMAS & BETTS), RACO, CROUSE-HINDS, APPLETON (FMFRSON) OR APPROVED FOLIVALENT
- OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS.

STUDS TO PREVENT TWISTING OF BOX IN WALL.

ATTACH EMT WITH CONNECTORS HAVING INSULATED THROAT. ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT E. ALL OUTLET BOXES (INCLUDING TELEPHONE, CABLE TV, AND COMPUTER) SHALL HAVE COVER PLATES, BLANK IF NOT USED.

F. ALL EXTERIOR BOXES SHALL BE WATER-TIGHT. CONDUCTORS:

CONDUCTOR.

- A. CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPULL), ENCORE (SUPERSLICK),
- UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURER. ALL CONDUCTORS SHALL BE COPPER, RATED 75° C WET/DRY EXCEPT WHERE OTHERWISE NOTED
- OR REQUIRED BY U.L. OR OTHER CODES. ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2. SIZES #10 AWG AND SMALLER SHALL BE SOLID, SIZES #8 AWG AND LARGER SHALL BE STRANDED.
- BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS AND BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY. NEUTRAL SHALL BE WHITE FOR 120/208 VOLT SYSTEMS AND NATURAL GRAY FOR 277/480 VOLT SYSTEMS. GROUND CONDUCTOR SHALL BE GREEN ON ALL SYSTEMS. ALL CONDUCTOR SIZES SHALL HAVE COLOR-CODED INSULATION. THE USE OF COLORED TAPE ON LARGER WIRE SIZES
- INSULATION SHALL BE DUAL RATED TYPE THHN/THWN-2 FOR FEEDERS AND BRANCH CIRCUITS. FIXTURE TAPS SHALL BE #12 THHN/THWN-2 IN FLEX WITH GREEN #12 AWG GROUNDING CONDUCTOR.
- ALL CONDUCTORS SHALL BE IN CONDUIT. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.
- MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED, UNLESS EXPLICITLY INDICATED ON THE DRAWINGS. WHERE EXPLICITLY INDICATED ON THE DRAWINGS 1) ALL 20A MULTI-WIRE RECEPTACLE CIRCUITS SHALL UTILIZE A #10 AWG NEUTRAL
- 2) ONLY WHERE PERMITTED UNDER "RACEWAYS", MC CABLE ASSEMBLIES CAN BE AFC "SUPER NEUTRAL" OR EQUAL, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WHERE MULTI-WIRE BRANCH CIRCUITS ARE EXPLICITLY INDICATED ON THE DRAWINGS, THEY SHALL BE INSTALLED PER NEC 210.4. MEANS SHALL BE PROVIDED TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH
- CIRCUIT ORIGINATES IN ADDITION TO OTHER REQUIREMENTS PER NEC 210.4. JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH INSULATING CAPS (NO TAPE) OR WIRENUTS (MAXIMUM OF 3 CONDUCTORS UNDER ANY
- CONNECTOR OR WIRENUT). LARGER WIRE SHALL USE SPLIT BOLTS OR BOLTED CLAMPS K. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, MOTOR STARTER LUGS, TRANSFORMERS LUGS, WIRING DEVICE TERMINALS, AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 75 DEGREE AMPACITY AND SHALL BE SIZED AND SELECTED TO MATCH THE CONDUCTOR SIZE AND MATERIAL.
- CIRCUIT IOINTS SHALL NOT BE MADE ON DEVICE TERMINALS M. WIRE WITHIN PANELBOARDS SHALL BE NEATLY TRAINED, SQUARED, BUNCHED, AND TAGGED.
- ALL SYSTEM FURNITURE CONNECTIONS SHALL COMPLY WITH NEC 605. GROUND ALL EQUIPMENT PER NEC ARTICLE 250. BOND WHERE CONDUITS ENTER ENCLOSURES THROUGH CONCENTRIC KNOCKOUTS. ALL FLEX, INCLUDING FIXTURE TAPS, SHALL INCLUDE GREEN GROUNDING CONDUCTOR, #12 AWG MINIMUM. PROVIDE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT AND FOR EACH CIRCUIT, SIZED PER NEC 250-122.
- P. ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC 300-19. THE ELECTRICAL CONTRACTOR SHALL FOLLOW AND APPLY THE TABLE BELOW, REGARDLESS WHAT THE PANEL SCHEDULE INDICATES, FOR SIZING ALL 120V & 277V, 20 AMP BRANCH CIRCUITS (COPPER CONDUCTORS) TO ALLOW A MAXIMUM OF 3% VOLTAGE DROP FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE ON THE BRANCH CIRCUIT AND ACHIEVE A MAXIMUM OF 5%

VOLTAGE	CONDUCTOR LENGTH *	BRANCH CIRCUIT
120	0' - 50'	#12
120	51' - 90'	#10
120	91' - 140'	#8
120	141' - 225'	#6

VOLTAGE DROP ACROSS THE ENTIRE BRANCH CIRCUIT

* - THE LENGTH IS MEASURED FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE WHICH THE BRANCH CIRCUIT SERVES. WHERE THE DISTANCE EXCEEDS ABOVE, CONSULT WITH THE ENGINEER.

WIRING DEVICES:

WIRING DEVICES SHALL BE SPECIFICATION GRADE, MINIMUM, EQUAL TO COOPER QUALITY INDICATED BELOW OR AS MANUFACTURED BY HUBBELL, LEGRAND-PASS & SEYMOUR, LEVITON, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED:

SWITCHES (120/277V) SHALL BE AS FOLLOWS:

SINGLE-POLE 20 AMP	COOPER AH1221
DOUBLE-POLE 20 AMP	COOPER AH1222
THREE-WAY 20 AMP	COOPER AH1223
FOUR-WAY 20 AMP	COOPER AH1224
SINGLE-POLE-PILOT 20 AMP	COOPER AH1221PL
DOUBLE-POLE-PILOT 20 AMP	COOPER AH1222PL
THREE-WAY-PILOT 20 AMP	COOPER AH1223PL
SINGLE-POLE-KEY 20 AMP	COOPER AH1221L
DOUBLE-POLE-KEY 20 AMP	COOPER AH1222L
THREE-WAY-KEY 20 AMP	COOPER AH1223L
FOUR-WAY-KEY 20 AMP	COOPER AH1224L

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

15 AMP DUPLEX	COOPER 5252
20 AMP DUPLEX	COOPER 5352
15 AMP DUPLEX GFCI	COOPER SGF15F
20 AMP DUPLEX GFCI	COOPER SGF20F
15 AMP DUPLEX TAMPER	COOPER TR5262
20 AMP DUPLEX TAMPER	COOPER TR5362
15 AMP DUPLEX GFCI-TAMPER	COOPER TRSGF15F
20 AMP DUPLEX GFCI-TAMPER	COOPER TRSGF20F

THE PART NUMBERS ABOVE ARE FOR WIRING DEVICE TYPE ONLY. SEE BELOW FOR WIRING DEVICE COLOR AND PLATE MATERIAL/COLOR.

- SEE MOUNTING HEIGHT ELEVATION DETAIL FOR STANDARD MOUNTING HEIGHTS OF ALL DEVICES,
- UNLESS OTHERWISE NOTED. THE COLOR OF ALL WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE AS DIRECTED BY THE ARCHITECT, UNLESS OTHERWISE NOTED. ALL COVER PLATES SHALL BE 302 STAINLESS STEEL. COVER PLATES IN MASONRY WALLS SHALL BE JUMBO SIZE.
- EACH DUPLEX RECEPTACLE INDICATED TO BE ON A DEDICATED CIRCUIT SHALL BE 20 AMP TYPE. ADJACENT DEVICES SHALL HAVE A COMMON WALL PLATE. WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" SO PLUGS MAY BE INSTALLED WITHOUT
- COMPROMISING THE WP FUNCTION. COOPER #WIU-2 DOUBLE-GANG WITH CLEAR COVER OR APPROVED EQUAL A MAXIMUM OF 10 GENERAL PURPOSE RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT.
- DIMMERS SHALL BE LINEAR SLIDE, PRESENT ON/OFF, SQUARE LAW DIMMING, W/RFI FILTERING AND VOLTAGE COMPENSATION CIRCUITING. ALL WALL MOUNTED OCCUPANCY/VACANCY SENSORS/SWITCHES SHALL BE INSTALLED WITH AN
- **EQUIPMENT GROUNDING CONDUCTOR.** GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION. WHERE A DEVICE LOCATION IS NOT ACCESSIBLE, THE GFCI PROTECTION SHALL BE PROVIDED WITH THE BREAKER SERVING THE DEVICE.
- ALL GFCI RECEPTACLES SHALL HAVE AUTO-MONITORING / SELF-TEST FUNCTION AND REVERSE LINE-LOAD MISFIRE FUNCTION AND MEET ALL REQUIREMENTS OF UL 943 (LATEST EDITION). TAMPER-RESISTANT RECEPTACLES SHALL BE PROVIDED FOR ALL AREAS PER NEC 406.12, INCLUDING DWELLING UNITS, GUEST ROOMS, GUEST SUITES AND COMMON AREAS OF HOTELS AND MOTELS, CHILD-CARE FACILITIES, PRESCHOOL AND ELEMENTARY EDUCATION FACILITIES, BUSINESS OFFICES/CORRIDORS/WAITING ROOMS AND THE LIKE IN CLINICS/MEDICAL/DENTAL OFFICES AND OUTPATIENT FACILITIES, ASSEMBLY OCCUPANCIES INCLUDING PLACES OF AWAITING TRANSPORTATION/GYMNASIUMS/SKATING RINKS/AUDITORIUMS, AND DORMITORIES/STUDENT HOUSING.

- ALL EQUIPMENT SHALL BE ADEQUATELY SUPPORTED FROM STRUCTURE. INSERTS IN MASONRY SHALL BE LEAD OR FIBER IN DRILLED HOLES, OR CAST IN PLACE.
- NAILS OR POWDER ACTUATED FASTENERS SHALL NOT BE USED EMT/IMC/RGS SUPPORTS SHALL BE A MAXIMUM OF 8'-0" APART AND A MAXIMUM OF 3'-0" FROM
- LIGHTING FIXTURES MOUNTED IN OR ON CEILING SHALL BE SUPPORTED FROM STRUCTURE VIA 12
- GAUGE STEEL WIRE. PROVIDE A MINIMUM OF FOUR WIRES, ONE ATTACHED TO EACH CORNER OF LAY-IN FIXTURES. RECESSED DOWNLIGHT FIXTURES SHALL BE SUPPORTED THE SAME. DO NOT SUPPORT RACEWAY OR FIXTURES FROM CEILING GRID OR DUCT WORK. USE U.L. LISTED GRID CLIPS ON ALL LAY-IN FIXTURES.

TELECOMMUNICATIONS:

- FURNISH A COMPLETE TELEPHONE CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS. TELECOMMUNICATION OUTLETS SHALL CONSIST OF A 4" SQUARE DEEP BOX WITH SINGLE GANG PLASTER RING. PROVIDE BLANK PLATE WITH KNOCKOUTS FOR OUTLETS, AS PERMANENT COVERS
- WILL BE PROVIDED BY A SEPARATE INSTALLER. PROVIDE MINIMUM 1" RACEWAY, UNLESS OTHERWISE NOTED, FROM EACH BOX TO ABOVE NEAREST ACCESSIBLE CEILING SPACE FOR J-HOOK SYSTEM OR TO CABLE TRAY AS APPLICABLE. PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPTY
- PROVIDE RACEWAYS FOR ALL EXTERIOR AND/OR EXPOSED LOCATIONS. PROVIDE GROUNDING FOR ALL TELEPHONE/DATA SYSTEMS AND EQUIPMENT PER REQUIREMENTS AND SPECIFICATIONS PROVIDED BY THE OWNERS DESIGNATED VENDOR.

- ALL LOW-VOLTAGE CABLING SHALL BE PLENUM-RATED.
- G. CONTRACTOR SHALL FURNISH AND INSTALL A #6 AWG GREEN INSULATED COPPER WIRE IN CONDUIT FROM THE MAIN ELECTRICAL GROUNDING BAR TO TELECOMMUNICATIONS
- H. PROVIDE MOUNTING BACKBOARDS FOR COMMUNICATIONS EQUIPMENT. BACKBOARDS SHALL BE OF 3/4" TYPE AC, EXTERIOR PLYWOOD, PAINTED BOTH SIDES AND ALL EDGES WITH 2 COATS OF
- GRAY FLAME RETARDANT PAINT. VERIFY SITE LOCATION OF TELEPHONE SERVICES WITH APPROPRIATE VENDOR, PRIOR TO SUBMITTING BID. TELEPHONE SERVICE CONDUITS SHALL BE PROVIDED TO THE PROPERTY LINE OR POINT AS DIRECTED BY THE LOCAL UTILITY.

LIGHTING FIXTURES:

- A. TYPES AND MANUFACTURERS ARE SCHEDULED ON THE PLANS. EQUIVALENT FIXTURES BY OTHERS MAY BE SUBMITTED ONLY AS INDICATED ON THE PLANS AND ARE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER B. ALL FIXTURES SHALL BE U.L. LISTED AND LABELED.
- C. LAMPS SHALL BE GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA EXCEPT WHERE OTHERWISE NOTED IN THE LIGHTING FIXTURE SCHEDULE OR OTHERWISE NOTED. ALL FIXTURES SHALL BE FOUIPPED WITH LAMPS
- D. BALLASTS SHALL BE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE OR AS OTHERWISE NOTED.
- INDICATED ON THE PLANS. CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. ALL RELATED PARTS. SUCH AS PLASTER RINGS, JUNCTION BOXES, LOUVERS, SHIELDS, MOUNTING STEMS, CANOPIES, CONNECTORS, STRAPS, NIPPLES, HARDWARE, ACCESSORIES, ETC., TO FIT THEM PROPERLY TO THE CONSTRUCTION, SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER

E. ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON THE CIRCUIT ASSIGNMENT

- ALL FIXTURES SHALL BE GROUNDED PER THE NEC. FIXTURES CONNECTED WITH FLEX TO THE RIGID RACEWAY PORTION OF THE WIRING SYSTEM SHALL CARRY A GREEN BONDING JUMPER WITHIN THE FLEX. THE JUMPER SHALL BE FASTENED TO BOTH THE FIXTURE AND THE RACEWAY SYSTEM WITH A STEEL CITY "G" CLIP OR APPROVED EQUIVALENT. PHASE AND GROUND CONDUCTORS RUN IN FLEX SHALL BE #12 AWG MINIMUM.
- MAXIMUM FI FX LENGTH SHALL BE 6'-0". SURFACE-MOUNTED FLUORESCENT FIXTURES INSTALLED ON COMBUSTIBLE MATERIAL SHALL BE MOUNTED AT LEAST 1/4" FROM THE SURFACE OF THE MATERIAL, EXCEPT FOR FIXTURES WHICH ARE PLAINLY MARKED AS U.L. APPROVED FOR MOUNTING DIRECTLY TO SUCH SURFACES.
- MOUNT ALL FIXTURES PLUMB AND SQUARE WITH ROWS ALIGNED. FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS WITHER INTEGRAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF FIXTURES. M. CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND TRIM WITH CEILING CONSTRUCTION AND ADJUST ACCORDINGLY WITHOUT ADDITIONAL EXPENSE. ALL LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED PER THE NEC.
- FIXTURES IN CONTACT WITH INSULATION SHALL BE IC RATED. P. FOR RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS, PROVIDE A MANUFACTURER APPROVED AND LISTED FIRE RATED COVER/ASSEMBLY OVER THE FIXTURE TO MAINTAIN THE INTEGRITY OF THE CEILING FIRE RATING. ANY LIGHTING FIXTURES INSTALLED UNDER THE FIRE RATED CAP SHALL BE SUITABLE FOR THE INSTALLATION.

10. <u>LIGHTING CONTROLS:</u>

- A. FURNISH AND INSTALL WHERE SHOWN AN ELECTRONIC TIME CONTROLLER AS MANUFACTURED BY TORK (NSI), PARAGON, INTERMATIC, OR APPROVED EQUAL. CONTACTS SHALL BE SPST OR AS INDICATED, RATED 120/277V AT 20A BALLAST LOAD, AND MINIMUM 30,000 SWITCHING CYCLES. PROVIDE WITH THE NUMBER OF CHANNELS INDICATED (MINIMUM 2 CHANNELS) OR AS REQUIRED TO MEET THE INTENT OF THE DRAWINGS. EACH CHANNEL SHALL BE INDIVIDUALLY PROGRAMMABLE WITH 128 ON-OFF OPERATIONS PER WEEK PLUS FOUR SEASONAL SCHEDULES TO MODIFY THE BASIC PROGRAM AND A HOLIDAY SCHEDULE THAT OVERRIDES THE WEEKLY OPERATION. THE CONTROLLER SHALL BE PROVIDED WITH A PHOTOELECTRIC SENSOR. ASTRONOMIC DIAL, AND A BATTERY BACKED-UP, NON-VOLITILE MEMORY FOR SCHEDULES AND TIME CLOCK
- B. LIGHTING CONTACTORS SHALL SWITCH LOADS AT THE VOLTAGE AND AMPERE RATING INDICATED AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS OR AS REQUIRED. THE CONTACTOR AND CONTACTS SHALL BE CONTINUOUSLY RATED FOR THE LOAD SERVED. INCLUDING TUNGSTEN FILAMENT, INDUCTIVE, AND HIGH-INRUSH BALLAST LOADS.
- C. ALL LIGHTING CONTACTORS SHALL BE ELECTRICALLY HELD AND BE INSTALLED IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.

11. <u>EQUIPMENT IDENTIFICATION:</u>

PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT, INCLUDING BUT NOT LIMITED TO, WIRING TROUGHS, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, SWITCHBOARDS, ETC. NAMEPLATE SHALL INDICATE THE DEVICE NAME, SYSTEM VOLTAGE (VOLTAGE/PHASE/WIRE), AND UPSTREAM DEVICE AND CIRCUIT PROVIDE NAMEPLATES FOR CIRCUIT BREAKERS IN SWITCHGEARS, SWITCHBOARDS AND DISTRIBUTION

B. NAMEPLATE COLORS SHALL BE AS FOLLOWS:

- BLUE SURFACE WITH WHITE CORE FIRE ALARM SYSTEM BRIGHT RED SURFACE WITH WHITE CORE SECURITY SYSTEMS **BURGUNDY SURFACE WITH WHITE CORE** TELEPHONE SYSTEMS ORANGE SURFACE WITH WHITE CORE BROWN SURFACE WITH WHITE CORE DATA SYSTEMS TV SYSTEMS PURPLE SURFACE WITH WHITE CORE
- PAGING SYSTEMS WHITE SURFACE WITH BLACK CORE NAMEPLATES UP TO 8 SQUARE INCHES SHALL NOT BE LESS THAN 1/16" THICK. NAMEPLATES LARGER THAN 8 SQUARE INCHES SHALL NOT LESS THAN 1/8" THICK. LETTERING HEIGHT SHALL BE 1/2" MINIMUM.
- NAMEPLATES SHALL BE ATTACHED WITH SELF-DRILLING/SELF-TAPPING SCREWS, EXCEPT RIVETS SHALL BE USED WHERE END OF SCREW IS NOT PROTECTED. QUANTITY AS FOLLOWS: UP TO 5 SQUARE INCHES: 2 SCREWS. 5 TO 12 SOUARE INCHES: 4 SCREWS. ABOVE 12 SQUARE INCHES: 6 SCREWS.

DISCONNECTS:

- A. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE IN NEMA 1 ENCLOSURES. UNLESS OTHERWISE NOTED, FUSED OR NON-FUSED AS INDICATED. SWITCHES SHALL HAVE REJECTION-TYPE FUSE CLIPS. SWITCHES SHALL BE BY EATON, SQUARE-D, GENERAL ELECTRIC, OR APPROVED EQUAL. WHERE FED FROM A LOAD CENTER, GENERAL-DUTY SWITCHES SHALL BE
- FUSES LESS THAN 60A SHALL BE CLASS RK5, DUAL-ELEMENT, TIME-DELAY WITH INDICATION FUSES GREATER THAN 60A SHALL BE CLASS J, DUAL-ELEMENT, TIME-DELAY WITH INDICATION. D. A SET OF 3 SPARE FUSES OF EACH SIZE AND TYPE SHALL BE FURNISHED TO THE OWNER

PANELBOARDS:

- A. PANELBOARDS SHALL BE PROVIDED AS MANUFACTURED BY EATON, SQUARE-D, GENERAL ELECTRIC. OR APPROVED EQUAL. ALL NEW EQUIPMENT FOR THE PROJECT SHALL BE BY THE SAME MANUFACTURER. LOAD CENTER TYPE PANELBOARDS SHALL BE USED WHERE THE PANELBOARD
- SERVES A DWELLING UNIT ALL BUSSING, INCLUDING NEUTRAL AND GROUND, SHALL BE COPPER. ALL BREAKERS SHALL BE AUTOMATIC THERMAL-MAGNETIC TYPE MOLDED CASE BOLT-ON TYPE, CALIBRATED FOR 40 DEGREE C, OR AMBIENT COMPENSATION, UNLESS OTHERWISE NOTED.
- PANELS SHALL BE FULLY RATED (AIC). NO SERIES AIC RATINGS ARE ALLOWED. PANELS SHALL HAVE FULL SIZE EQUIPMENT GROUNDING BARS AND NEUTRAL BARS, EXCEPT WHERE INDICATED TO BE 200%. ALL PANELBOARD AND BREAKER LUGS SHALL BE SIZED AND RATED PER THE CONDUCTOR SIZE
- AND MATERIAL G. LIGHTING AND APPLIANCE PANELS (100A-600A) SHALL HAVE FRONT ACCESSIBLE HINGED DOOR-IN-DOOR COVERS WITH DEAD FRONT, SHALL BE 20" WIDE MINIMUM WITH MINIMUM 4" WIDE WIRING GUTTERS.
- H. DISTRIBUTION PANELS (600A-1200A) SHALL HAVE FRONT ACCESSIBLE DEAD FRONT COVERS. PROVIDE HANDLE LOCK-ON DEVICES FOR ALL CIRCUIT BREAKERS CONNECTED TO EMERGENCY, EXIT, NIGHT LIGHTING, FIRE ALARM, TELEPHONE BOARDS, AND SECURITY SYSTEMS. BREAKERS USED FOR SWITCHING SHALL BE SWITCHING DUTY (SWD) RATED.
- BREAKERS USED FOR HEATING, AIR-CONDITIONING AND/OR REFRIGERATION SHALL BE HACR L. GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION. WHERE A DEVICE LOCATION IS NOT ACCESSIBLE. THE GFCI PROTECTION SHALL BE PROVIDED WITH THE
- M. ARC-FAULT CIRCUIT-INTERRUPTER (AFCI) PROTECTION SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.12, INSTALLED IN A READILY ACCESSIBLE LOCATION. THIS INCLUDES ALL 120V, 15A AND 20A BRANCH CIRCUITS IN DWELLING UNITS, DORMITORY/STUDENT HOUSING UNITS AND HOTEL/MOTEL GUEST ROOMS/SUITES AS DEFINED BY THE NEC. ALL OVERCURRENT DEVICES WHICH COMPRISE THE EMERGENCY SYSTEM OR LEGALLY REQUIRED
- STANDBY SYSTEM SHALL BE SELECTIVELY COORDINATED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MANUFACTURER DOCUMENTATION INDICATING COMPLIANCE WITH THE SELECTIVE COORDINATION REQUIREMENTS PER THE NEC. O. ALL PANELBOARDS SHALL HAVE METAL DIRECTORY FRAME. FOR EACH PANELBOARD. PROVIDE
- TYPED CIRCUIT DIRECTORY PER NEC 408.4. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE AND IN THE OFF POSITION ALL CIRCUIT BREAKERS RATED 1200A OR HIGHER, OR CAPABLE OF BEING RATED 1200A OR HIGHER (I.E. ADJUSTABLE LONG-TIME PICKUP OR REPLACEABLE TRIP/RATING PLUG), SHALL BE PROVIDED WITH AN ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR PER NEC

15. FIRE ALARM SYSTEM:

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BREAKER SERVING THE DEVICE.

N. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED

- (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. SYSTEM SHALL BE SIMPLEX, NOTIFIER, SIEMENS, OR APPROVED EQUAL AS ACCEPTED BY THE
- ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE AND VISUAL INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL RESOUND THE SYSTEM. AN AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION
- SIGNAL FOR NOTIFYING THE FIRE DEPARTMENT. MANUAL STATIONS SHALL BE NON-CODED, WITH DUAL-ACTION PULL AND KEY TYPE RESET, SEMI-FLUSH MOUNTED. COMBINATION LIGHT AND HORN SIGNALS SHALL BE FLUSH MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THHN. ALL J-BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
- SPRINKLER SYSTEM TAMPER SWITCHES SHALL BE CONNECTED INTO A COMMON ZONE WHICH SHALL DISTINGUISH BETWEEN A CONDUIT FAULT AND A CLOSED VALVE. A CLOSED VALVE SHALL BE INDICATED AS AN ALARM CONDITION, BUT WILL NOT ACTIVATE THE AUDIO-VISUAL DEVICES AND SHALL CAUSE A SUPERVISORY SIGNAL TO BE TRANSMITTED TO THE CENTRAL STATION.
- CONDUCTORS SHALL BE PLENUM-RATED AND INSTALLED IN CONDUIT AND INSTALLED IN COMPLIANCE WITH NFPA 70, ARTICLE 760; IN ADDITION TO WIRING METHODS 300.4.

ALL FIRE ALARM WIRING SHALL BE CLASS B.

- PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM. SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND
- FOR APPROVAL V. FILL OUT NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING JURISDICTION.
- W. WARRANTY ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER AND/OR OWNER. THE FULL COST OF MAINTENANCE, LABOR, AND MATERIALS REQUIRED TO CORRECT ANY DEFECT DURING THIS TWO YEAR PERIOD SHALL BE IMMEDIATELY CORRECTED AT NO ADDITIONAL COST TO THE OWNER. ANY DEFECTS THAT RENDER THE SYSTEM INOPERATIVE SHALL BE REPAIRED WITHIN 24 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. OTHER DEFECTS SHALL BE REPAIRED WITHIN 48 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 520HZ TONE
- COMPATIBLE WITH NFPA 72 18.4.5.3. PROVIDE ALL REPROGRAMMING AND/OR REWORK AND/OR REPLACEMENT OF EXISTING FIRE ALARM PANEL AS REQUIRED.

16. FIRE STOPPING:

- A. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH RATED MATERIALS MEETING
- PROVIDE FIRESTOPPING DEVICE(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE THE APPROPRIATE DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. C. DEVICE(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.

A. THE ELECTRICAL CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING SEISMIC SUPPORT AND BRACING OF ELECTRICAL COMPONENTS TO RESIST THE EFFECTS OF EARTHQUAKES ON THE ELECTRICAL SYSTEM AS WELL AS ANY REQUIRED SPECIAL INSPECTIONS BASED ON THE SPECIFIC GEOGRAPHIC LOCATION AS REQUIRED. THE SEISMIC RESTRAINTS AND SPECIAL INSPECTIONS SHALL MEET ALL APPLICABLE STATE AND LOCAL BUILDING CODE REQUIREMENTS AS WELL AS ASCE-7 REQUIREMENTS.

ELECTRICAL COORDINATION WITH OTHER TRADES:

- A. THE ELECTRICAL CONTRACTOR SHALL CONNECT AND/OR PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS APPLICABLE TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, MECHANICAL, PLUMBING, FIRE PROTECTION AND SUPPRESSION, OWNER FURNISHED, KITCHEN, LABORATORY, ETC. UNLESS OTHERWISE NOTED.
- USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANUAL MOTOR STARTER SWITCHES, DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL AND PLUMBING EQUIPMENT. ALL STARTERS, OTHER THAN MANUAL STARTER SWITCHES, SHALL BE PROVIDED BY

D. ALL DISCONNECT SWITCHES AND FUSE SIZES SHALL BE COORDINATED WITH SHOP DRAWINGS

THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND LIGHT FIXTURE

B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN

PRIOR TO ORDERING OR INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.

OTHERS, BUT INSTALLED BY THE ELECTRICAL CONTRACTOR.

- LOCATIONS ABOVE THE CEILING WITH OTHER TRADES PRIOR TO INSTALLATION. ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED AND CONNECTED BY THE ELECTRICAL CONTRACTOR, BUT INSTALLED BY THE MECHANICAL CONTRACTOR.
- G. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY OUTLETS FOR HEAT TAPE CONNECTIONS FOR MECHANICAL SYSTEMS. PROVIDE CLASS B (30mA) GFCI PROTECTION ON THE BREAKER SUPPLYING THE HEAT TAPE H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER AT EACH HVAC UNIT HAVING A

CONTROLS POWER SUPPLY. CIRCUIT(S) SHALL BE DEDICATED 20A SERVING A MAXIMUM OF 10

HVAC UNITS PER CIRCUIT. COORDINATE ALL LOCATIONS WITH THE MECHANICAL CONTRACTOR.

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- PRELIMINARY -NOT FOR CONSTRUCTION

SIGNATURE:

The Orchards at Naples Road, I 341 N Main Street Hendersonville, NC 28792



PROJECT

REVISIONS

DWG DECRIPTION: **ELECTRICAL**

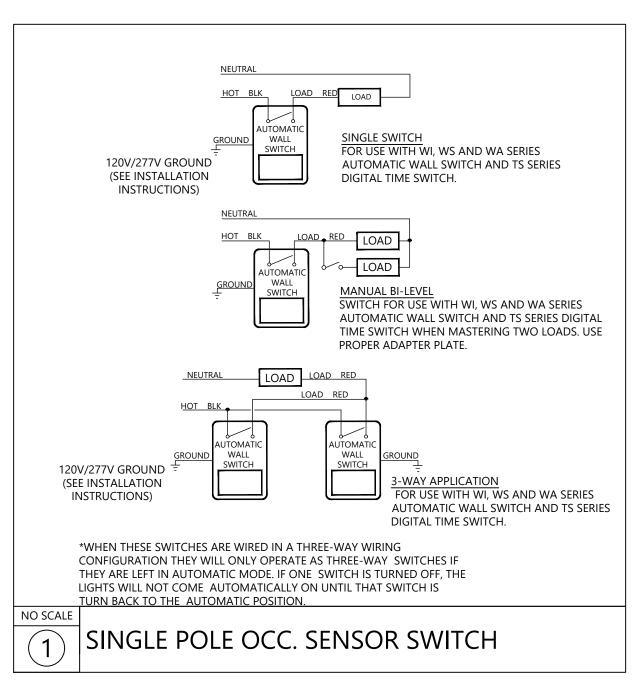
ISSUE DATE: 4/11/25

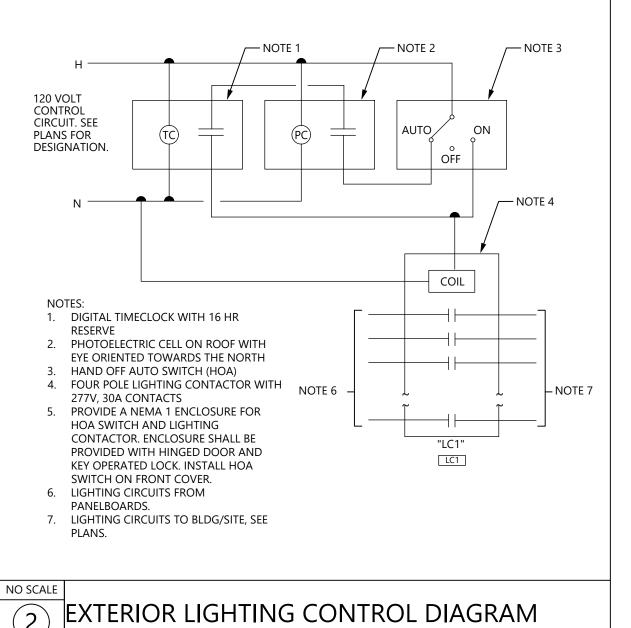
PROJECT #: 22105

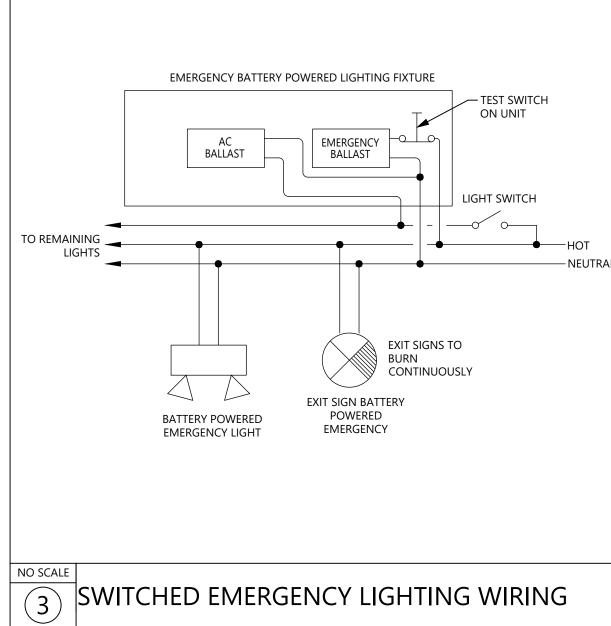
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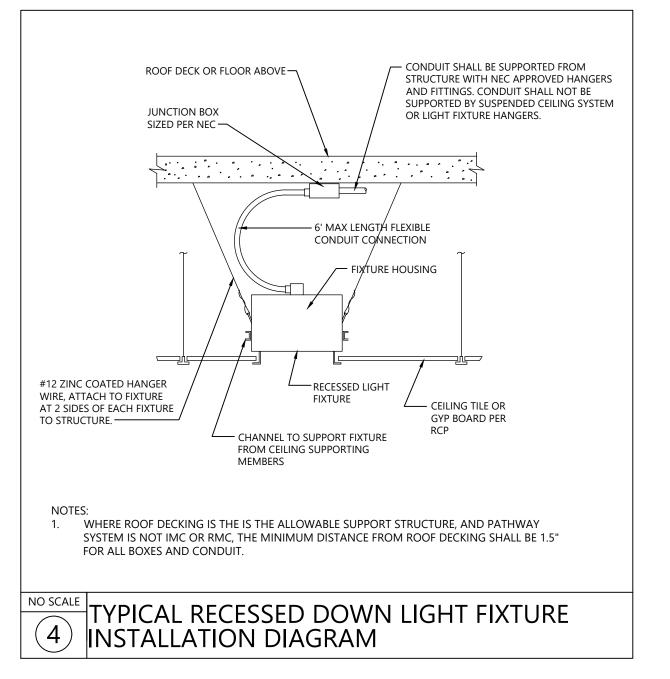
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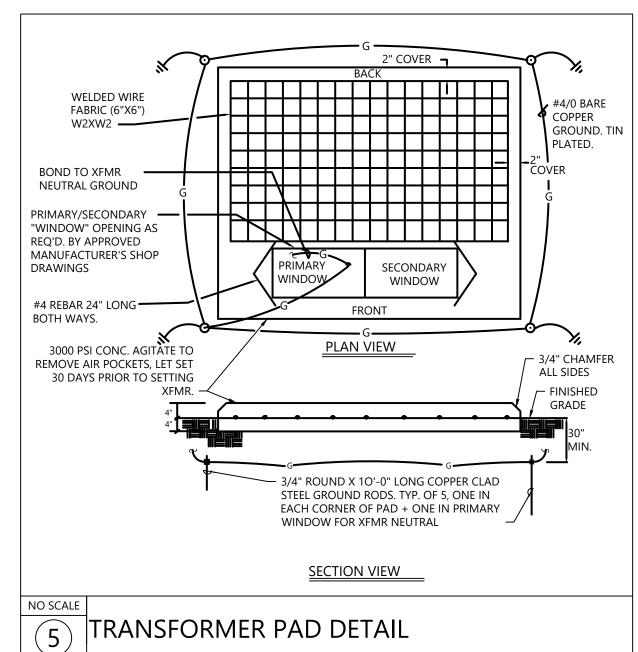
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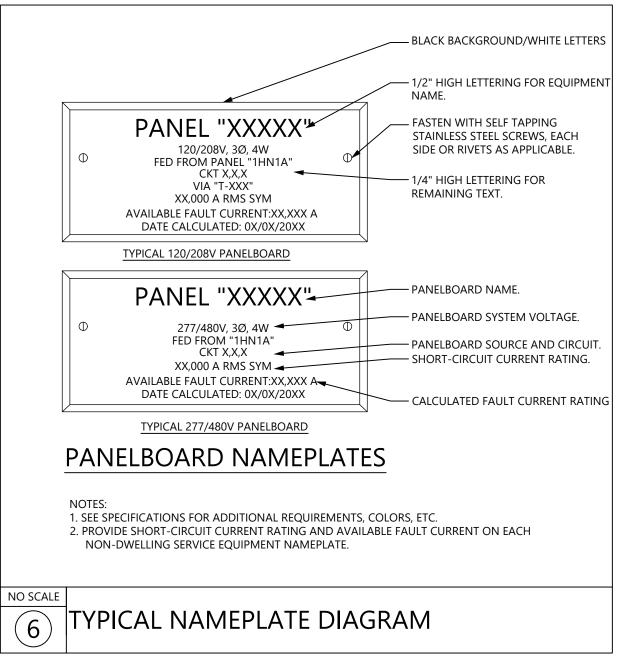


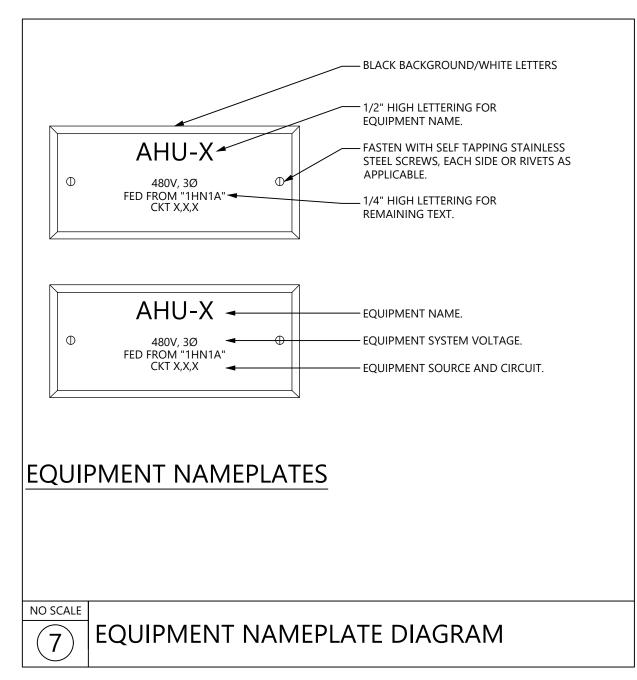


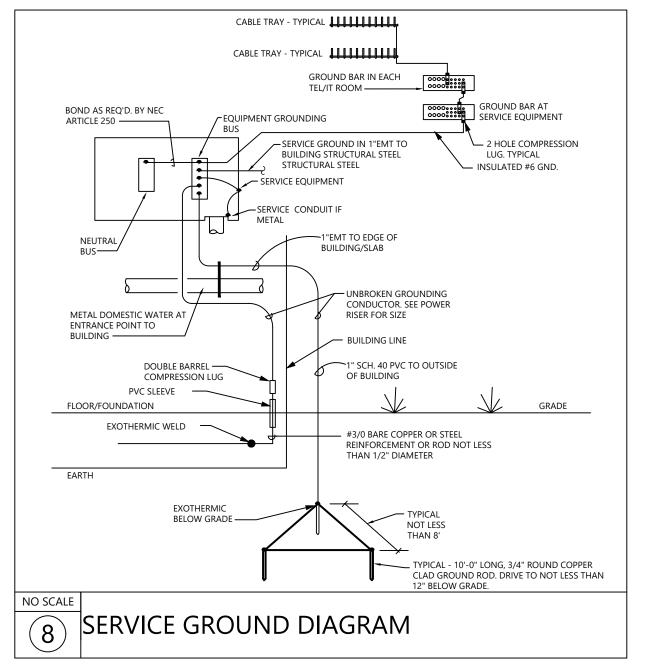


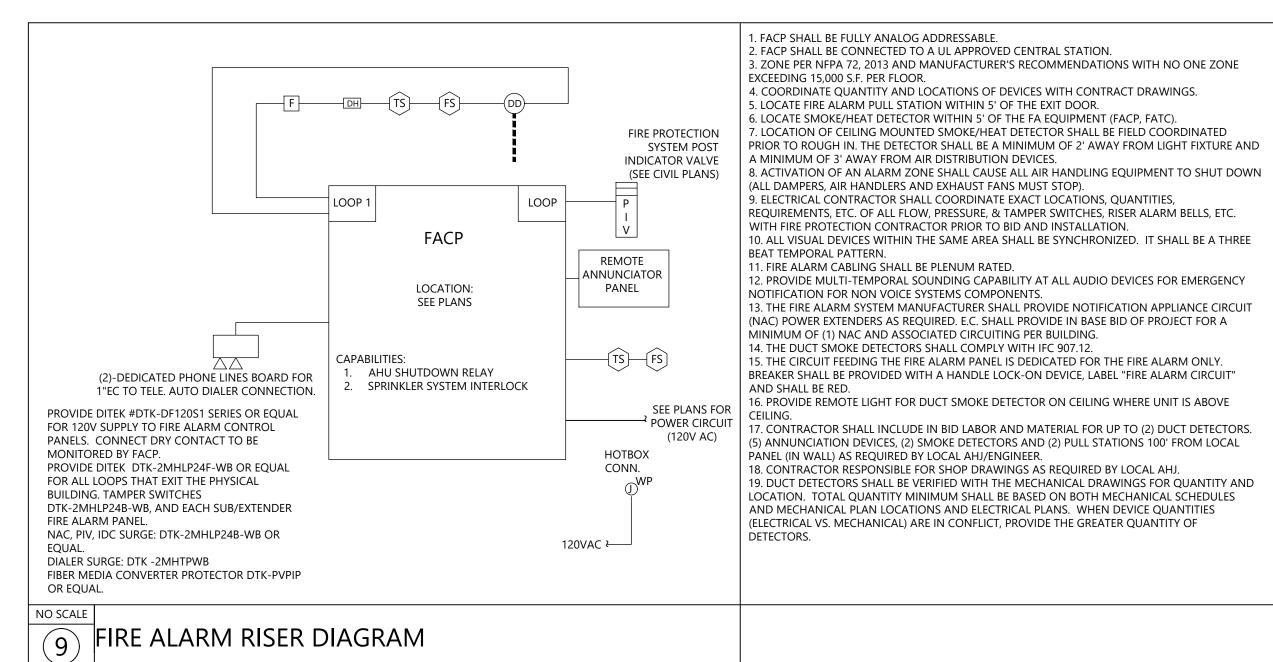


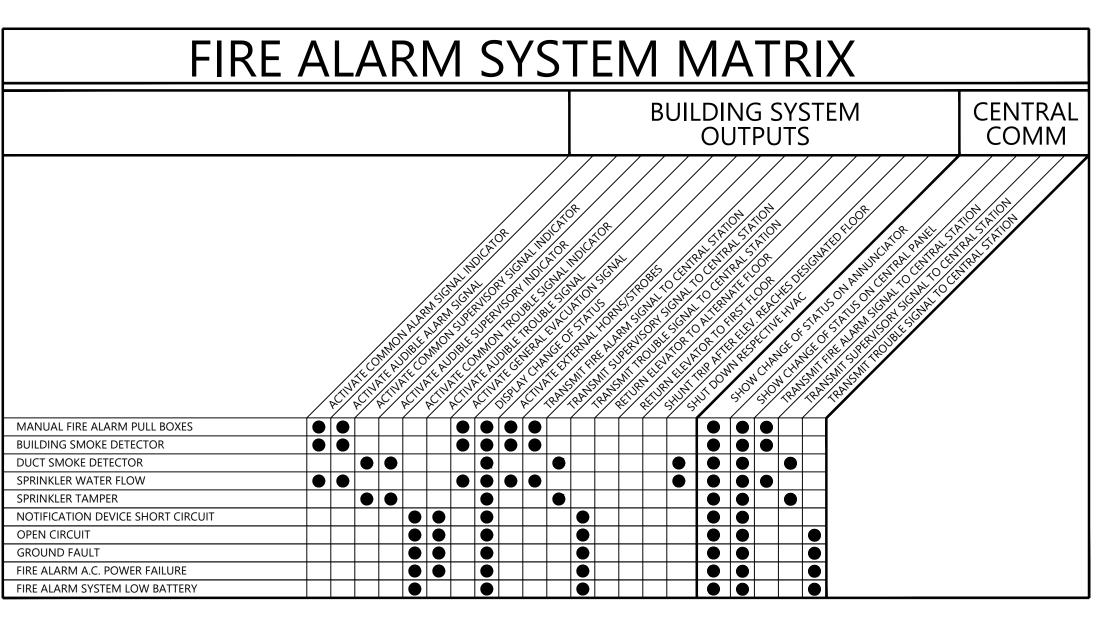


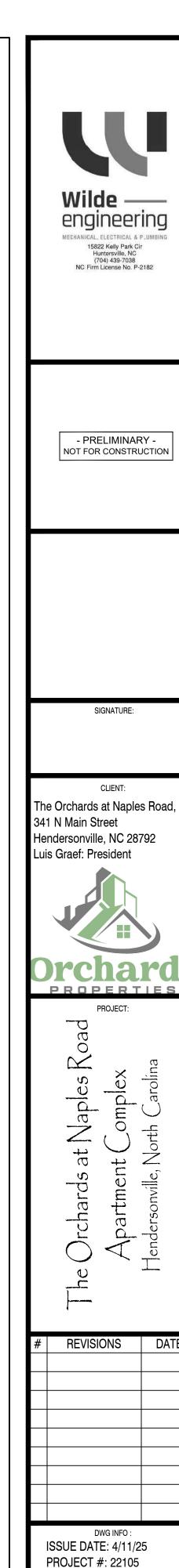










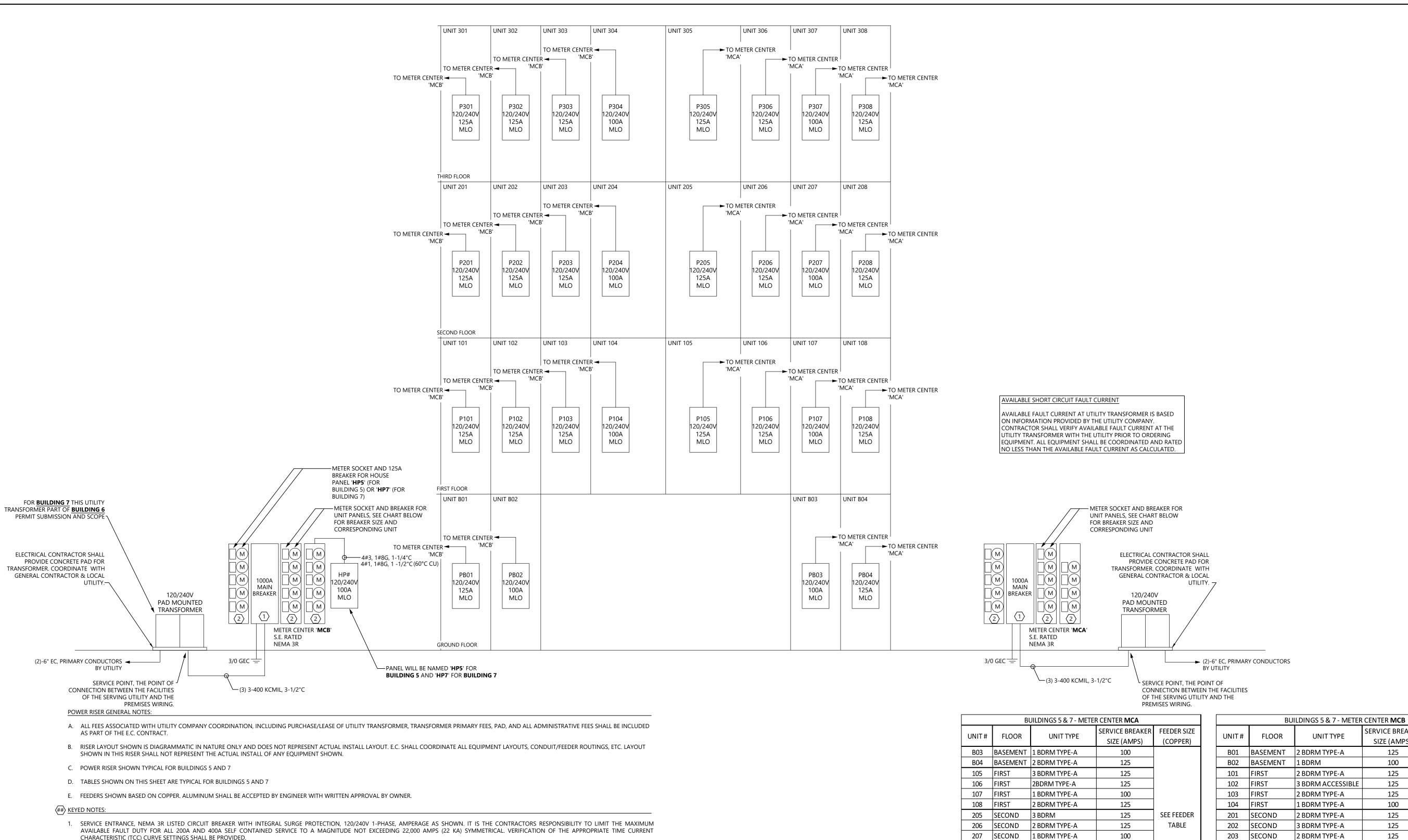


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DWG DECRIPTION:

ELECTRICAL DETAILS



- CHARACTERISTIC (TCC) CURVE SETTINGS SHALL BE PROVIDED.
- 2. NEMA 3R METER CENTER, 225A MAXIMUM CB, 120/240V 1-PHASE. COORDINATE WITH UTILITY PRIOR TO ORDERING NUMBER OF METER SOCKETS AS SHOWN. COORDINATE SIZE OF METER UNITS AND BREAKER

POWER RISER DIAGRAM - BUILDINGS 5 & 7 (28-UNIT BLDG) NOT TO SCALE

	NUMBER	UNIT KV	Δ	TOTAL	
	OF UNITS	OIIII KV	``	KVA	
2 BEDROOM UNIT	8	40.92		327.37	
1 BEDROOM UNIT	4	38.11		152.45	
3 BEDROOM UNIT	2	42.07		84.14	
TOTAL # OF UNITS	14				
			TOTAL:	564.0	KVA
WITH DEN	//AND FACT	OR (PER NEC 220.84	40%	225.6	KVA
			TOTAL:	225.6	KVA
		VOLTAGE	OF SERVICE:	240	V
		SER	/ICE PHASE:	1	PH
		TOTAL	AMPACITY:	939.9	Α

DEMAND LOADS: METER CENTER 'MCA'

DEMAN	NUMBER				TOTAL	
	OF UNITS		UNIT KVA		KVA	
2 BEDROOM UNIT	8		40.92		327.37	
1 BEDROOM UNIT	4		38.11		152.45	
3 BEDROOM UNIT	2		42.07		84.14	
TOTAL # OF LINITS	14					
TOTAL# OF UNITS	14			TOTAL:	564.0	KVA
	14 MAND FACT	OR (PER N	EC 220.84)	TOTAL: 40%	564.0 225.6	
	·	OR (PER N	,		225.6	
	·	OR (PER N	,	40%	225.6	KVA
	·	OR (PER N	,	40%	225.6	KVA KVA
	·	OR (PER N	,	40% SE PANEL:	225.6 6.7	KVA KVA
	·		,	40% SE PANEL: TOTAL:	225.6 6.7	KVA KVA
	·		HOU HOU OLTAGE OF	40% SE PANEL: TOTAL:	225.6 6.7 232.3 240	KVA KVA

SERVICE RATING	MAXIMUM DISTANCE											
(AMPS)	0 - 150'	151' - 175'	176' - 200'	201' - 225'	226' - 250'	251' - 275'	276' - 300'					
100	3#3, 1#8G,	3#2, 1#6G,	3#1,	1#4G,	3#1/0,	1#4G,	3#2/0, 1#3G,					
100	1"C	1-1/4"C	1-1,	/4"C	1-1/	′2"C	1-1/2"C					
110	3#2,	1#6G,	3#1, 1#4G,	3#1/0,	, 1#3G,	3#2/0), 1#2G,					
110	1-1,	/4"C	1-1/4"C	1-1/4"C 1-1/2"C			/2"C					
125	3#1,	1#6G,	3#1/0,	1#4G,	3#2/0,	3#3/0, 1#3G,						
123	1-1,	/4"C	1-1,	′2"C	1-1/	′2"C	2"C					
150	3#1/0	, 1#6G,	3#2/0,	3#2/0, 1#4G, 3#3/0, 1#4G, 3#4/		3#4/0	, 1#3G,					
130	1-1,	/2"C	1-1,	′2"C	2"C	2	"C					
175	3#2/0	, 1#6G,	3#3/0,	3#3/0, 1#4G,		3-250, 1#3G,	3-300, 1#2G,					
1/5	1-1,	/2"C	2'	'C	2"C	2"C	2-1/2"C					
200		3#3/0, 1#6G,		3#4/0, 1#4G,	3-250, 1#4G,	3-300, 1#3G,	3-350, 1#2G,					
200		2"C		2"C	2"C	2-1/2"C	2-1/2"C					

204 SECOND

301 THIRD

302 |THIRD

303 THIRD

304 THIRD

1 BDRM TYPE-A

2 BDRM TYPE-A

2 BDRM TYPE-A

2 BDRM TYPE-A

1 BDRM TYPE-A

1. THIS TABLE SHALL TAKE PRECEDENCE OVER ANY FEEDERS LISTED IN PANEL SCHEDULES, RISERS AND/OR PLANS. VOLTAGE DROP IS A FUNCTION OF DISTANCE, WHICH IS DETERMINED BY THE CONTRACTOR'S ROUTING IN THE FIELD DURING CONSTRUCTION.

2. CONSULT ENGINEER FOR FEEDERS GREATER THAN 300' IN LENGTH.

125

125

125

100

125

208 | SECOND | 2 BDRM TYPE-A

2 BDRM TYPE-A

2 BDRM TYPE-A

1 BDRM TYPE-A

2 BDRM TYPE-A

305 THIRD

306 THIRD

307 THIRD

308 THIRD

- 3. CONDUIT SIZING IS BASED ON "THHN", "THWN", "THWN-2" TYPE CONDUCTORS IN EMT CONDUIT.
- 4. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS.
- . CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.

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The Orchards at Naples Road, I 341 N Main Street Hendersonville, NC 28792 Luis Graef: President



PROPERTIES

Naples

SERVICE BREAKER | FEEDER SIZE

SEE FEEDER

TABLE

SIZE (AMPS)

125

100

125

125

125

100

125

125

125

100

125

125

125

100

REVISIONS | DATE

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

DWG DECRIPTION: POWER RISER DIAGRAM -BUILDINGS 5 & 7

			<u>VOLTAGE:</u> <u>PHASE / WIRE:</u> <u>AMPS:</u> AIC:	1φ/ 3 100	3W						MOUNTING MAIN	<u>s:</u> SURF/ <u>l:</u> LUGS	
LOAD KVA	WIRE	TRIP	LOAD NAME			*کین	L1		L2	*کی	LOAD NAME	TRIP	MIRE
0.90	12	20	REC - GENERAL			1	•	—	<u> </u>	- 2	LIGHTING - EXTERIOR	20	8
0.72	10	20	REC - GENERAL			3			-	4	FACP (NOTE #8)	20	10
1.08	8	20	REC - GENERAL			5	•	-		- 6	IRRIGATION CONTROLS	20	10
1.08	6	20	REC - GENERAL			7		\pm	•	- 8	FIRE ALARM BELL (NOTE #8)	20	10
1.08	6	20	REC - GENERAL			9	•			10	LIGHTING CONTACTOR LC1	20	12
1.00	12	20	TELECOM CABINET			11			•	12	-ECUH-1	20	10
		20	SPARE			13	•			14			10
		20	SPARE			15		_	+	16	SPARE	20	
		20	SPARE			17	•	+-	+	18	SPARE	20	
			SPACE ONLY			19		+	1	20	SPACE ONLY		
			SPACE ONLY			21				22	SPACE ONLY		
			SPACE ONLY			23				24	SPACE ONLY		
						25				26			
				_/		27				28			
						29 31			7 (-	30		+-/	
						33		+		34			
						35		+		36			
						37		+		38		+	
						39		+		40			\vdash
						41	•	+	+	42			
5.9	1	<u> </u>	<u> </u>			<u> </u>	<u>. </u>	SUB TOTA	ALS	1	Ir.		1
		LOA	AD (kVA)	Conn.	D.F.	Dmd.			Т	OTAL LO	AD PER PHASE		
l 1	LIGHTS			0.5	1.25					1	NECTED		
	HEATIN			2.0	1.00		L1=	5.7	kVA		AMPS		
H	COOLIN			0.0	1.00		L2=	5.3	kVA	44.2	? AMPS		
	VENTILA MOTOR			0.0	1.00	0.0	1			l DF	MAND	+	
l	KITCHE			0.0	0.65		L1-	5.8	kVA		AMPS	1	
l	REC. (1st			4.9	1.00		L2-	5.3	kVA		! AMPS		
	REC. (>1	0kVA)		0.0	0.50	0.0							
l	WATER	HEATER		0.0	1.00		1			MAND AT			
- F	MISC.			3.6	1.00		L1=		kVA		AMPS		
	SPARE			0.0	1.00	0.0	L2=	6.6	kVA	55.2	2 AMPS		



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SIGNATURE:

CLIENT:
The Orchards at Naples Road, LLC
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

Orchards at Naples Road Apartment Complex Hendersonville, North Carolina

#	REVISIONS	DATE

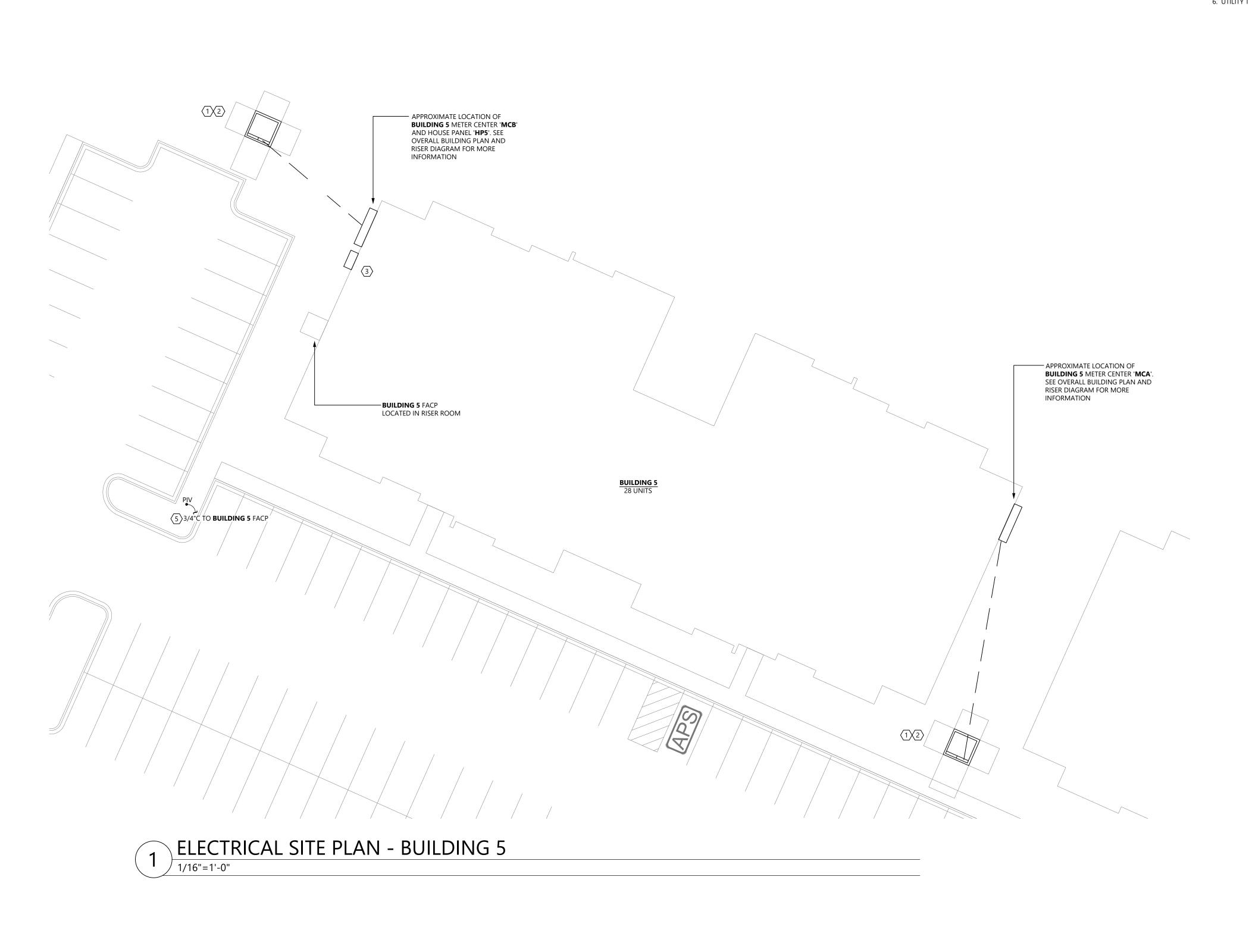
DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DECRIPTION :
PANEL SCHEDULE HOUSE PANEL

E-05

ILDE #: 24-125

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SITE PLAN NOTES:

- UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN.
 PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
- 3. PROVIDE (2)-4" CONDUIT FROM MAIN TELECOM/INTERNET BOX TO PROPERTY LINE FOR TELEPHONE AND INTERNET SERVICE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION.E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-4" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.

KEY PLAN (NOT TO SCALE)

- 4. ALL LOW VOLTAGE CONDUIT RUNS SHALL HAVE HAND HOLES/PULL BOXES SUPPLIED AT 150' INTERVALS UNLESS OTHERWISE INDICATED BY LOCAL UTILITY. MINIMUM SIZE SHALL BE 36" X 36".
- 5. POST INDICATED BY LOCAL UTILITY. MINIMON SIZE SHALL BE 36 1/2 36.

 5. POST INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.

 6. UTILITY TRANSFORMER PART OF **BUILDING 6** PERMIT SUBMISSION AND SCOPE.

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Hendersonville, NC 28792
Luis Graef: President



Chard

OPERTIES

PROJECT:

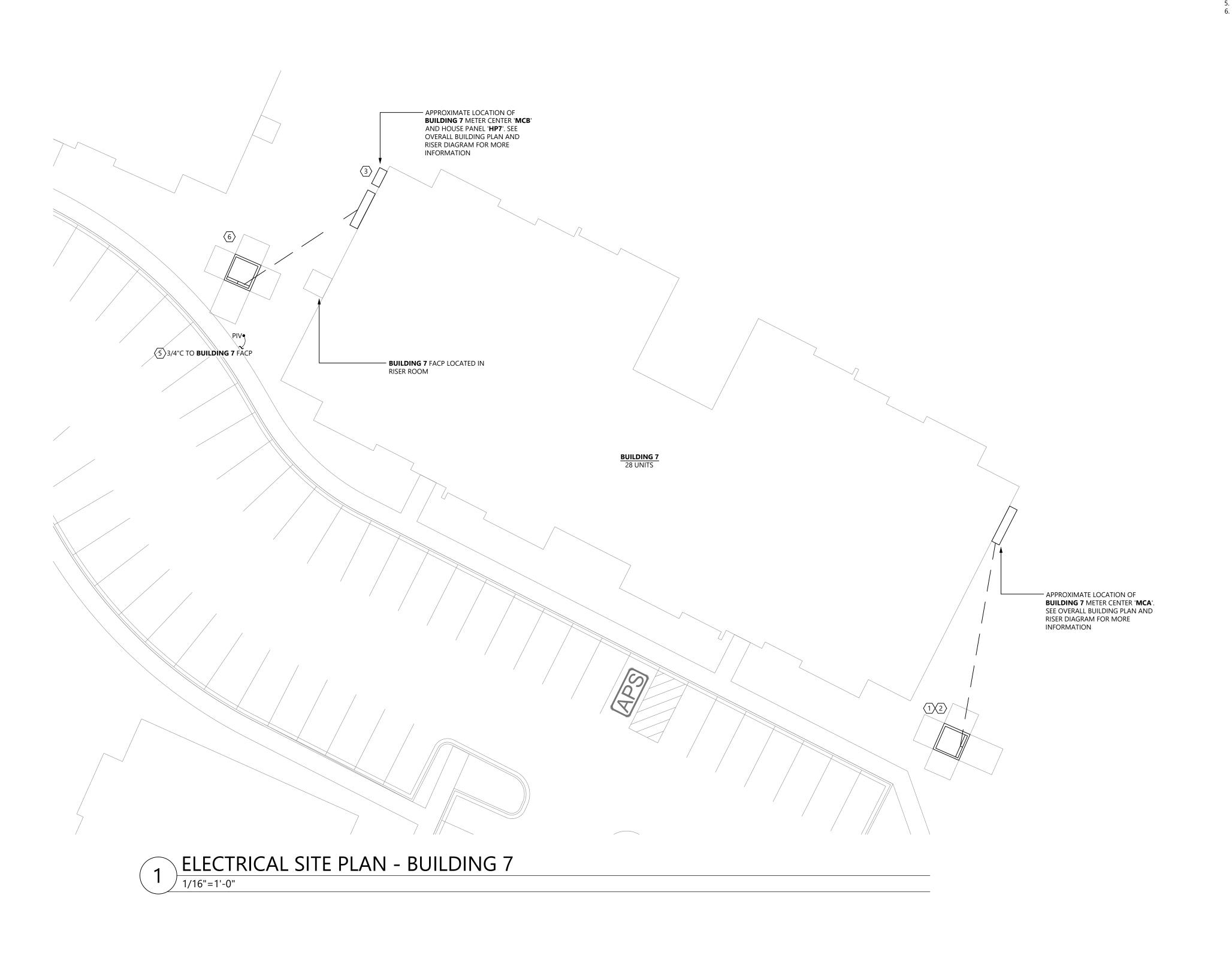
The Orchards at Naples Road Apartment Complex Hendersonville, North Carolina

#	REVISIONS	DATE
	DWG INFO :	

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

ELECTRICAL SITE PLAN -BUILDING 5

E-10.5



SITE PLAN NOTES:

- UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN.
 PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
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KEY PLAN (NOT TO SCALE)

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- 5. POST INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
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SIGNATURE:

The Orchards at Naples Road, LL 341 N Main Street Hendersonville, NC 28792 Luis Graef: President



Chards

OPERTIES

PROJECT:

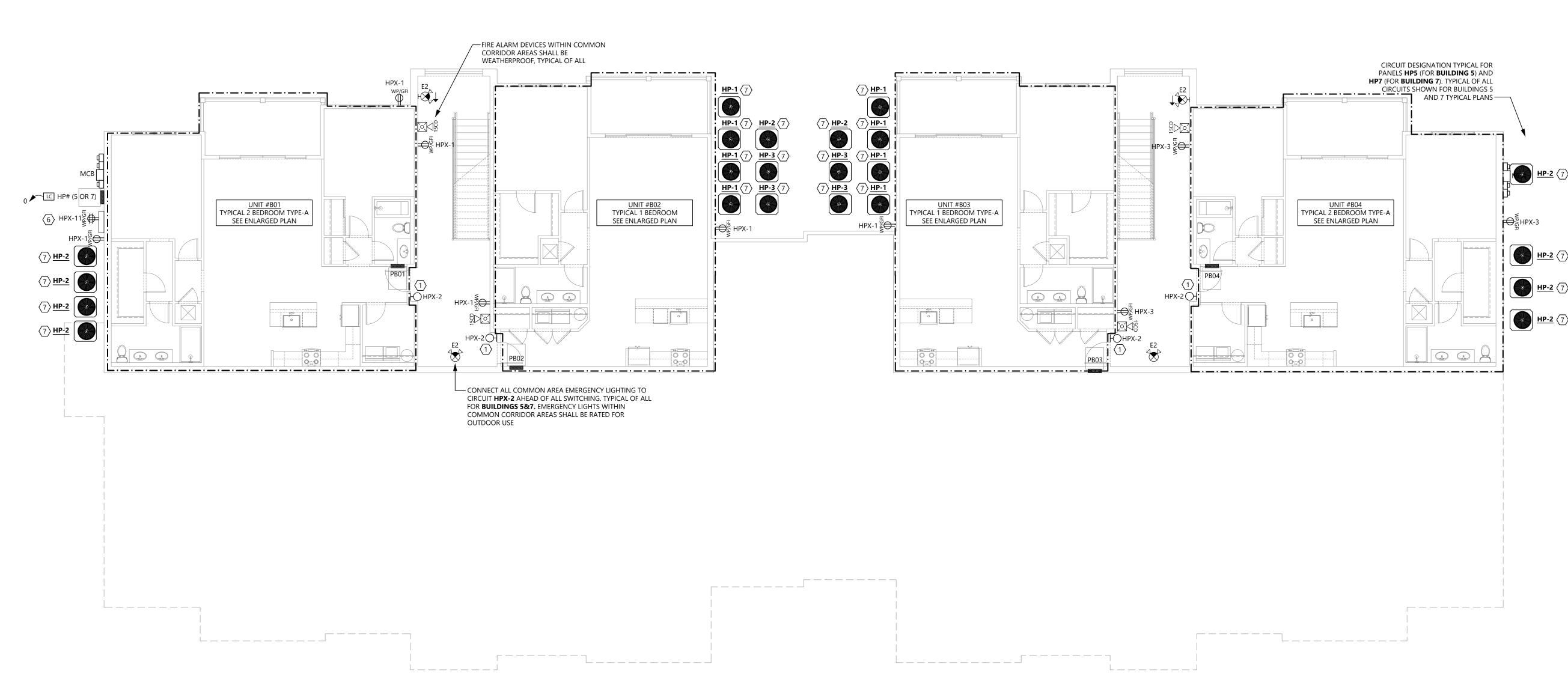
The Orchards at Naples Road
Apartment Complex
Handarandle North Complex

REVISIONS DATE

DWG INFO: ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

ELECTRICAL SITE PLAN -BUILDING 7

E-10.7



OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - BASEMENT LEVEL

GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT
- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
- C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL BE IN CONDUIT.
- D. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
- E. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
- F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
- G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF
- H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
- ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
- SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
- COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

##> KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):

- WALL SCONCE (FIXTURE TAG 'B') AT EACH APARTMENT ENTRY DOOR. REFER TO ENLARGED UNIT PLANS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT. ROUTE THROUGH LIGHTING CONTACTOR FOR ASSOCIATED BUILDING. CONTACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTACTOR DETAIL.
- COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
- 3. POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
- 5. FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
- 6. MAIN TELECOM CABINET FOR BUILDING. PROVIDE 36"x36" NEMA 3R CABINET AND (2)-4"C FROM CABINET TO MAIN PROPERTY LINE AND CONNECTION TO UTILITY. PROVIDE WP/GFI QUAD RECEPTACLE WITHIN CABINET, CONNECT TO CIRCUIT SHOWN ON PLANS.
- 7. COORDINATE WITH M.C. FOR WHICH UNIT EACH HEAT PUMP IS ASSOCIATED WITH. SIZE FEEDERS TO ACCOMMODATE VOLTAGE DROP PER NEC. SEE ENLARGED UNIT PLAN AND PANEL SCHEDULE FOR CIRCUIT DESIGNATION, DISCONNECT SIZE, ETC.

MECHANICAL, ELECTRICAL & PLUMBING 15822 Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2182

> - PRELIMINARY -NOT FOR CONSTRUCTION

> > SIGNATURE:

The Orchards at Naples Road, L 341 N Main Street Hendersonville, NC 28792



Luis Graef: President

ISSUE DATE: 4/11/25 PROJECT #: 22105

BUILDINGS 5 & 7

	MECHANICAL EQUIPMENT CONNECTION SCHEDULE - OVERALL PLAN												
		EQUIPME	NT CHARA	CTERISTICS	ELA	MCA	МОСР	FEEDER	DISCONNECT SWITCH				
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	IVICA	IVIOCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
ECUH-1	ELECTRIC WALL HEATER	240	1	2.00	-	-	20	3#12,1#12G,3/4"C	30	2	20	1	1
NOTES:													

COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.

	E1	UNIT #104 TYPICAL 1 BEDROOM TYPE-A SEE ENLARGED PLAN		UNIT #107 ICAL 1 BEDROOM TYPE-A SEE ENLARGED PLAN HPX-2	PX-5 PX-5 PX-5 PT-108 TYPICAL 2 BEDROOM TYPE-A SEE ENLARGED PLAN HPX-2 PT-108 HPX-2	
7 HP-2	HPX-5 THE PROPERTY OF THE PROP		TYPIC SI	UNIT #105 ICAL 3 BEDROOM TYPE-A SEE ENLARGED PLAN	HPX-2 1 P106 TYPICAL 2 BEDROOM TYPE-A SEE ENLARGED PLAN	HP-2 (7) HP-2 (7) HP-2 (7)

OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - FIRST FLOOR

GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS.
 NO EXPOSED CONDUIT PERMITTED.
 - C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILINGS SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILINGS SHALL BE IN CONDUIT. ALL WORK IN ELECTRICAL ROOMS SHALL
 - D. LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
 - E. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS
 - F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
 - G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
 - H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
 - I. ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
 - J. SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
 - K. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

(##) KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):

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Hendersonville, NC 28792



Luis Graef: President

PERTI PROJECT:

he Orchards at Naples Road Apartment Complex Hendersonville, North Carolina

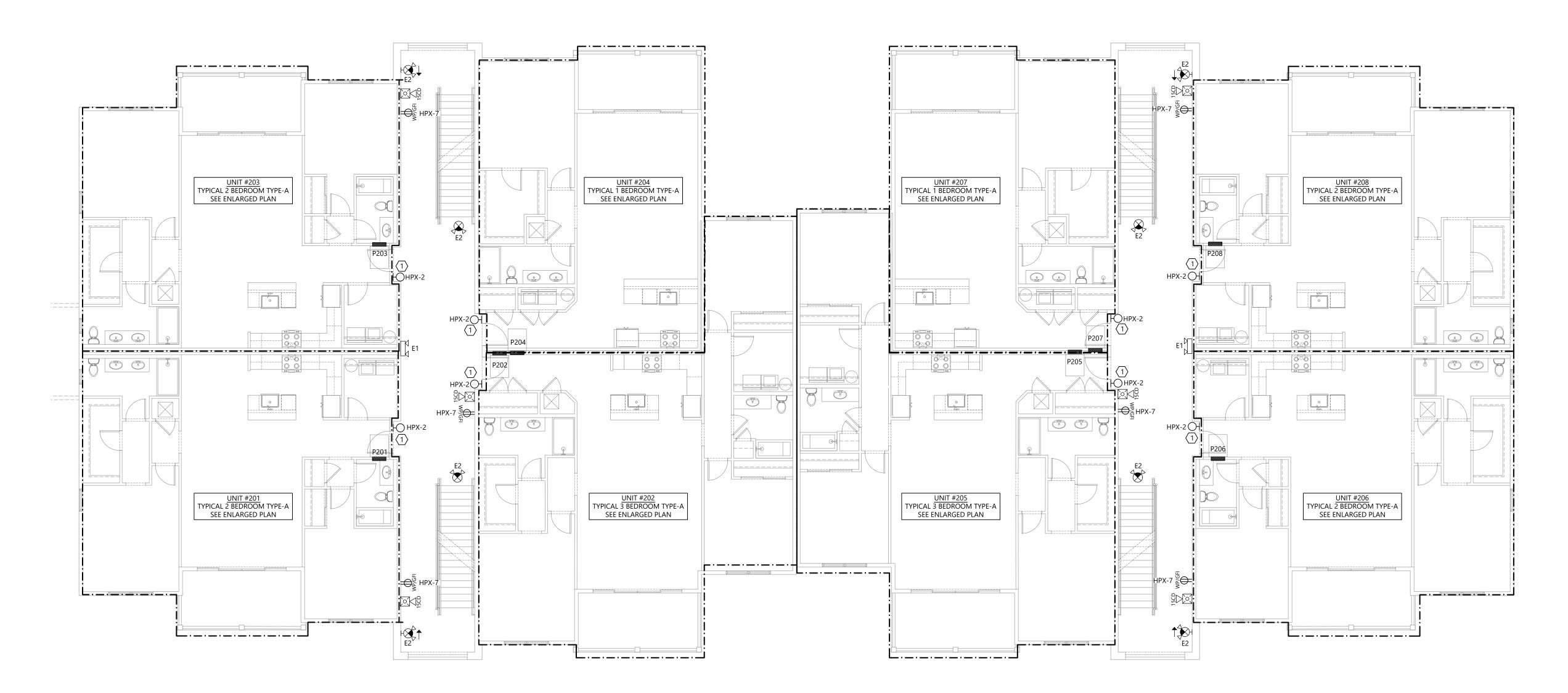
REVISIONS DATE

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

OVERALL ELECTRICAL
PLAN - FIRST FLOOR BUILDINGS 5 & 7

E-22

DE #: 24-125



OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - SECOND FLOOR

GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
- B. ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
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- F. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATION WITH MECHANICAL CONTRACTOR AND NEW DUCTWORK PRIOR TO ROUGH-IN. RELOCATION OF DUCTWORK FOR CONFLICT WITH NEW LIGHTING WILL BE AT EXPENSE OF CONTRACTOR.
- G. PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
- H. COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
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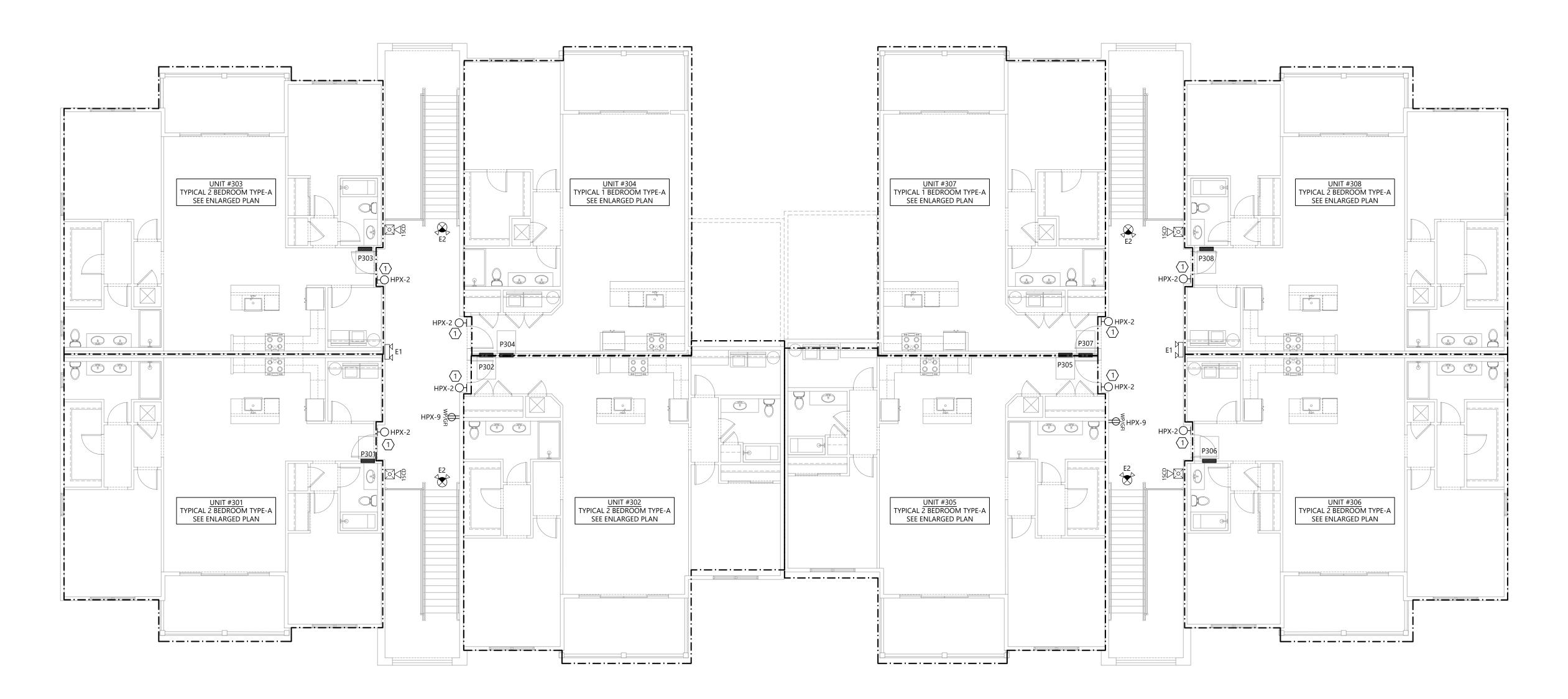
REVISIONS DATE

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

DWG DECRIPTION:
OVERALL ELECTRICAL
PLAN - SECOND FLOOR
BUILDINGS 5 & 7

E-23

E #: 24-125



OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - THIRD FLOOR

GENERAL NOTES:

- A. CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
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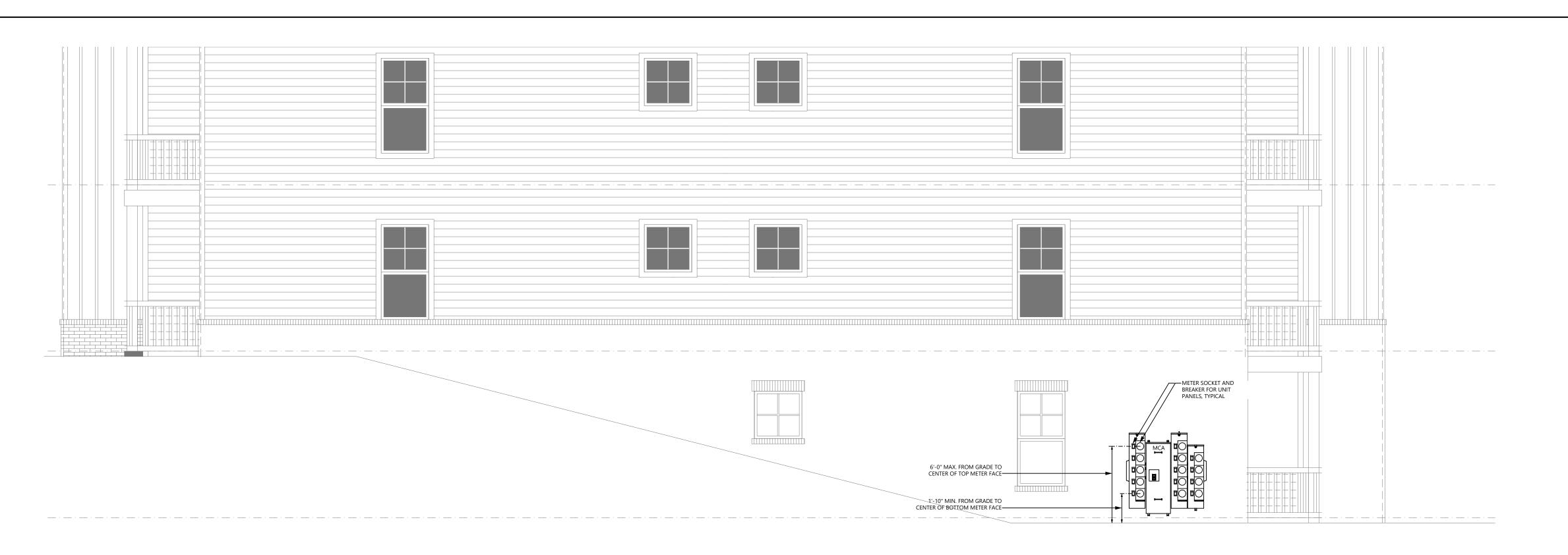
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DRAWN BY: MFL
CHECKED BY: JK

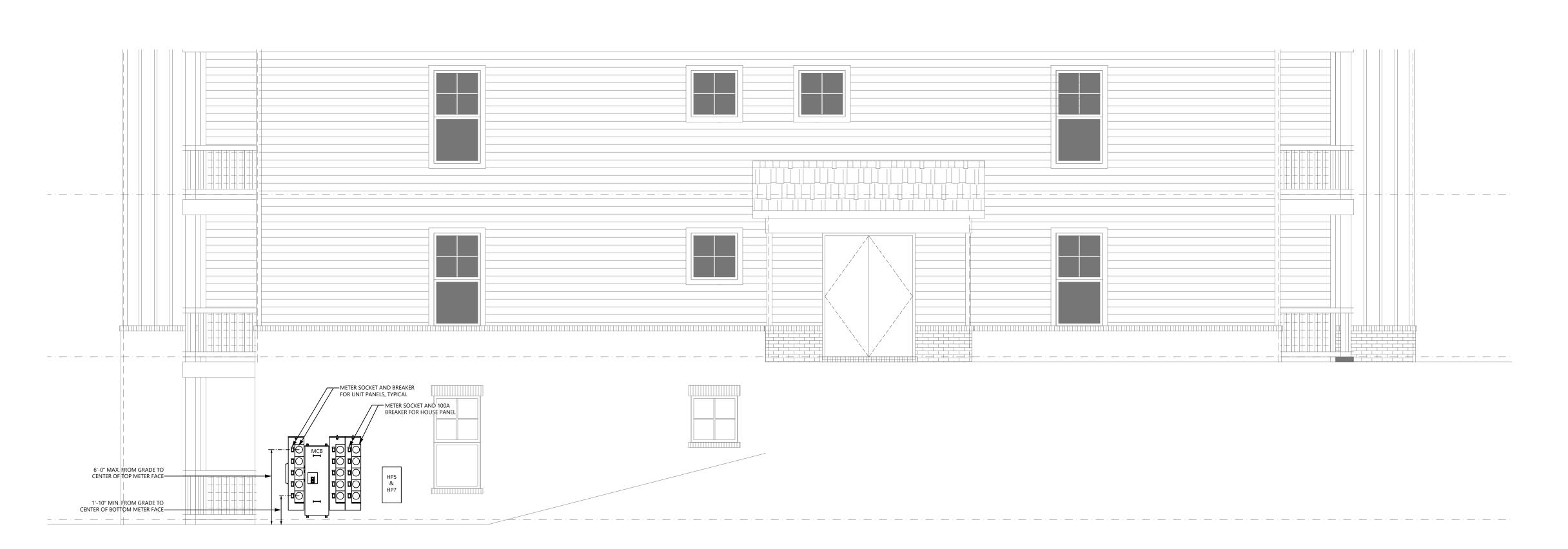
OVERALL ELECTRICAL
PLAN - THIRD FLOOR BUILDINGS 5 & 7

E-24

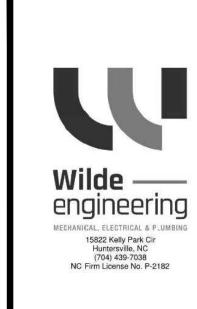
E #: 24-125



PARTIAL PLAN EAST ELEVATION - BUILDINGS 5 & 7 (28-UNIT BUILDINGS)



2 PARTIAL PLAN WEST ELEVATION - BUILDINGS 5 & 7 (28-UNIT BUILDINGS)



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The Orchards at Naples Road, LL 341 N Main Street Hendersonville, NC 28792 Luis Graef: President



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The Orchards at Naples Road
Apartment Complex
Handersonville North Carolina

REVISIONS DATE

DWG INFO:
ISSUE DATE: 4/11/25
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DRAWN BY: MFL
CHECKED BY: JK

PARTIAL ELEVATIONS -BUILDINGS 5 & 7

E-3

TYPICAL PANEL SCHEDULE FOR 1 BEDROOM UNITS

				NEW	PAN	EL:	1-E	3DRN	/						
			VOLTAGE: PHASE / WIRE: AMPS: AIC:	120/ 1φ/ 100 10,0	3W								NG: FLUSH		
LOAD KVA	WIRE	_{TRIP}		,		*کی	L1		L	2	"کین	LOAD NAME	_{RIP}	WIRE	LOAD KVA
0.00	12	20	LIGHTING			1	•	1		<u></u>	2	REC - LIVING ROOM	20	12	0.00
0.00	12	20	REC - GENERAL			3		-			4	REC - KITCHEN	20	12	0.00
0.00	12	20	REC - KITCHEN			5	•	-		_	6	REFRIGERATOR (NOTE #7)	20	12	0.00
0.00	12	20	RANGE HOOD			7					8	DISHWASHER (NOTE #7)	20	12	0.00
0.00	12	20	DISPOSAL			9				_	10			6	0.00
0.00	12	20	REC - BEDROOM			11	 	-			12	RANGE	50	6	0.00
0.00	12	20	BATHROOM			13	-			-	14			12	0.00
0.00	12	20	BEDROOM FAN			15		_			16	AIR HANDLER	20	12	0.00
0.00	12	20	DRYER BOOSTER FA	N		17				_	18			8	0.00
0.00	12	20	WASHER (NOTE #7)			19					20	HEAT PUMP	15	8	0.00
0.00	12	20	TELECOM BOX			21				\	22			10	0.00
0.00	12	20	TELECOM BOX			23		+ -			24	DRYER	30	10	0.00
0.00	12	20	FIRE ALARM (NOTE	#8)		25					26			6	0.00
0.00		20	SPARE	-/		27		_			28	WATER HEATER	50	6	0.00
0.00		20	SPARE			29				/	30	SPARE	20	Ŭ	0.00
0.00						31					32				0.00
						33					34				
						35					36				
						37					38		\blacktriangleleft		
		_				39					40		\rightarrow		
						41					42				
0.0						41	<u> </u>	SUB TOTA	A I C		42				0
0.0		104	D (k)(A)	Conn	D.F.	Dmd.	T .	306 1017	ALS	т,	OTAL LO	AD PER PHASE			- 0
				1.25					- 11		NECTED	(NOTE #	£10)		
- 1	LIGHTS		0.0	1.00		L1=	0.0	kVA			AMPS	(INOTE #	10)		
	HEATING COOLING		0.0	1.00		L2=	0.0	kVA			AMPS				
- 1	VENTILATION 0.0		1.00		-	0.0			0.0	· · · · · · · ·					
- 1	MOTOR					MAND	(NOTE #	[‡] 10)							
	KITCHEN	٧		0.0	0.65		L1-	0.0							
	REC. (1st	: 10kVA)		0.0	1.00	0.0	L2-	0.0	kVA		0.0	AMPS			
	REC. (>10kVA) 0.0 0.50			0.0											
	WATER	HEATER		0.0	1.00	0.0				DEN	MAND AT	125%	(NOTE #	[‡] 10)	
i	WATER HEATER						1					and the second	1		

0.0 kVA

SPARE

- 1. Breaker frame shall be as req'd per panel aic rating. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.
- 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
- 4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
- 6. PROVIDE METAL DIRECTORY FRAME. 7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).
- 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.
- 9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.

0.0 1.00 0.0 L1=

0.0 1.00 0.0 L2=

10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.

		MECH	IANICAL	EQUIPME	NT CO	NNECT	ION SCI	HEDULE - 1 BEDRO	OM UNI	TS			
		EQUIPMI	ENT CHARA	CTERISTICS	FLA	MCA	МОСР	FEEDER	D	ISCONNE	CT SWITCH	1	
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	IVICA	IVIOCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>AHU-1</u>	1 BEDROOM AIR HANDLER	240	1	-	-	16.8	20	3#12,1#12G,3/4"C	30	2	20	1	1
<u>HP-1</u>	1 BEDROOM HEAT PUMP	240	1	-	-	11.4	15	NOTE 3	30	2	15	3R	1,3
<u>EWH-1</u>	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	N	10TOR SN	AP SWITCH	+	1,2

0.0 AMPS

0.0 AMPS

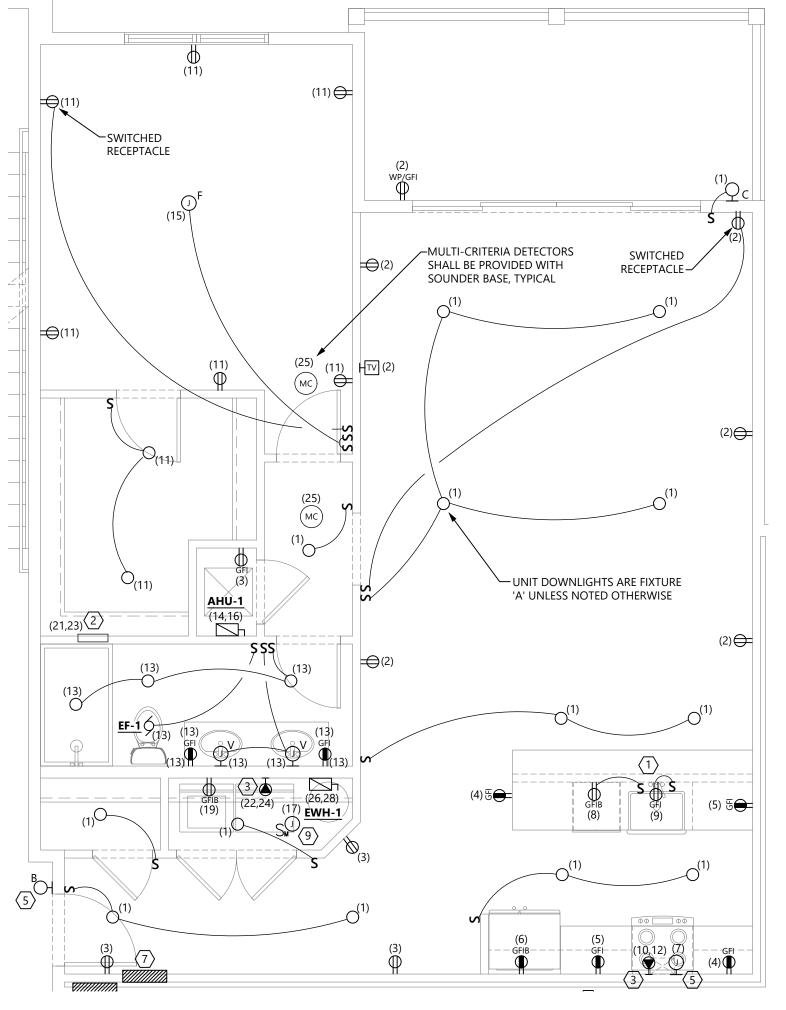
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INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR. 2 FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
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	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS											
3 WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

TYPICAL LOAD SUMMARY FOR 1 BEDROOM & 1 BEDROOM TYPE-A UNITS

Remaining @ 40% 9.7928 kVA 1st 3 kVA @ 100% 3.00 A/C & Cooling @ 100% 3.63 kVA > 3 kVA to 120 kVA @ 35% 1.66 HP Compressor @ 100% 0.00 kVA > 120 kVA @ 25% 0.00 HP Strip Heat @ 65% 0.00 kVA Remaining L-N Loads @ 100% 4.16 Electric Space Heat @ 40% 0.00 kVA Dryer Load @ 70% 3.56 Electric Thermal & Other Heating 0.00 kVA Range Load @ 70% 4.46 Unbalanced load > 200A @ 70% 0.00 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 g7.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 16.76 69.8	Voltage (L-L):	240	Volts	Pro	ject Name:	Naples Road Apartments				
LOAD		1			•					
LOAD	Floor Area:	1094	Sq Ft		•					
Cameral Lighting Load 3.28 1 3.28 3 VA/SF (2) Dedicated 20A Ckts (w/ GFCI-P) Laundry Circuit 1.50 1 1.50 1 1.50 Dedicated 20A Ckts (w/ GFCI-P) Dedicated 20A Ckts (w/ GFCI-P) Dedicated 20A Ckt (2) Dedicated 20A Ckt					Date:	3/13/2025				
(2) Small Appliance Circuits 3.00				QTY			3			
Laundry Circuit 1.50				1						
Electric Range		ts		1		1 ' '	GFCI-P)			
Solid	-			1		Dedicated 20A Ckt				
A/C and Cooling (240V) 3.63 1 3.63 1 3.63 Enter quantity for only the largest of Strip Heat (240V) 2.19 0 0.00 0.00	_			•	1					
HP Compressor	<u> </u>									
Strip Heat (240V)	•	,		1	1	Enter quantity for only the la	argest of th	ıe.		
Strip Heat	•	*		0		1	_			
Electric Space Heat (240V)	•	OV)	2.00	0	0.00	1 -				
Water Heater (240V) 9.60 1 9.60	Electric Space Heat (24)	OV)	0.00	0	0.00		ricat , or			
Water Heater (120V) 1.50 0 0.00 0.00 Dishwasher 0.80 1 0.80 (1) 20A Ckt for Dishwasher & Dispose Disposed 0.80 1 0.80 (1) 20A Ckt for Dishwasher & Dispose Disposed Microwave 1.50 1 1.50 (1) 20A Ckt for Dishwasher & Dispose Disposed Microwave 1.50 1 1.50 (1) 20A Ckt for Dishwasher & Dispose Dispose Disposed Disposed Microwave 1.50 1 1.50 (1) 20A Ckt for Dishwasher & Dispose Dispose Disposed Dispose Disposed Disposed (1) 20A Ckt for Dishwasher & Dispose Dispose Disposed Disposed (1) 20A Ckt for Dishwasher & Dispose Dispose Dispose Disposed Disposed (1) 20A Ckt for Dishwasher & Dispose Disposed Disposed Disposed	Elec Thermal / Other (24	OV)	0.00	0	0.00	Themal & Other Heating .				
Dishwasher Dishwasher Dishwasher Disposal Dis	Water Heater (24	OV)	9.60	1	9.60					
Disposal 1.00 1 1.00 (1) 20A Ckt for Dishwasher & Dispose	Nater Heater (12	OV)	1.50	0	0.00					
Nicrowave 1.50	Dishwasher		0.80	1	0.80	(1) 20A Ckt for Dishwasher	& Disposa	l		
Nicrowave 1.50	Disposal		1.00	1	1.00	1 1 1	•			
0.00	•		1.50	1	1.50		•			
0.00	Refrigerator			1		Examples of fastened in pla	ace applian	се		
0.00	3			0	1	I				
DEMAND LOAD (PHASE) DEMAND LOAD (NEUTRAL)				0		1 · · · · · · · · · · · · · · · · · · ·				
DEMAND LOAD (PHASE) DEMAND LOAD (NEUTRAL)				0		1				
TOTAL CONNECTED LOAD FOR UNIT 38.11 kVA DEMAND LOAD (PHASE) DEMAND LOAD (NEUTRAL) 1st 10 kVA @ 100% 10.00 kVA Gen Ltg, Small Appliance, Laundry 7.7 Remaining @ 40% 9.7928 kVA 1st 3 kVA @ 100% 3.0 A/C & Cooling @ 100% 0.00 kVA > 3 kVA to 120 kVA @ 35% 1.6 HP Compressor @ 100% 0.00 kVA > 120 kVA @ 25% 0.0 HP Strip Heat @ 65% 0.00 kVA Remaining L-N Loads @ 100% 4.1 Electric Space Heat @ 40% 0.00 kVA Dryer Load @ 70% 3.5 Electric Thermal & Other Heating 0.00 kVA Unbalanced load > 200A @ 70% 0.0 TOTAL DEMAND LOAD (PHASE) 23.42 kVA 97.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 69.8				_		1.				
1st 10 kVA @ 100% Remaining @ 40% A/C & Cooling @ 100% HP Compressor @ 100% HP Strip Heat @ 65% Electric Space Heat @ 65% Electric Space Heat @ 40% Electric Thermal & Other Heating 10.00 kVA 9.7928 kVA 3.63 kVA 9.7928 kVA 1st 3 kVA @ 100% 9.7928 kVA 9.7928 kVA 1st 3 kVA @ 100% 9.7928 kVA 9.700 kVA @ 100% 9.7928 kVA 9.792	TOTAL		FOR UNIT	-	kVA					
1st 10 kVA @ 100% 10.00 kVA Gen Ltg, Small Appliance, Laundry 7.76 Remaining @ 40% 9.7928 kVA 1st 3 kVA @ 100% 3.00 A/C & Cooling @ 100% 3.63 kVA > 3 kVA to 120 kVA @ 35% 1.66 HP Compressor @ 100% 0.00 kVA Prize Load @ 25% 0.00 HP Strip Heat @ 65% 0.00 kVA Dryer Load @ 70% 3.50 Electric Space Heat @ 40% 0.00 kVA Dryer Load @ 70% 3.50 Electric Thermal & Other Heating 0.00 kVA Unbalanced load > 200A @ 70% 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 kVA TOTAL DEMAND LOAD (NEUTRAL) 16.72 kVA 69.8	DEMAND	LOAD (PH	ASE)			DEMAND LOAD (NEU)	ΓRAL)			
Remaining @ 40% 9.7928 kVA 1st 3 kVA @ 100% 3.00 A/C & Cooling @ 100% 3.63 kVA > 3 kVA to 120 kVA @ 35% 1.6 HP Compressor @ 100% 0.00 kVA > 120 kVA @ 25% 0.00 HP Strip Heat @ 65% 0.00 kVA Remaining L-N Loads @ 100% 4.16 Electric Space Heat @ 65% 0.00 kVA Dryer Load @ 70% 3.56 Electric Space Heat @ 40% 0.00 kVA Range Load @ 70% 4.46 Electric Thermal & Other Heating 0.00 kVA Unbalanced load > 200A @ 70% 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 kVA 97.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 16.76 69.8			<u> </u>	kVA	Gen I ta	•	7.78	_		
A/C & Cooling @ 100% HP Compressor @ 100% HP Strip Heat @ 65% Electric Space Heat @ 65% Electric Space Heat @ 40% Electric Thermal & Other Heating COUNTIED TOTAL DEMAND LOAD (PHASE) 3.63 kVA 3.63 kVA 3.63 kVA 3.63 kVA 3.63 kVA 3.64 kVA 3.65 kVA 3.67 kVA 3.68 kVA 3.69 kVA 3.60 kVA 6.00 kV	_					• • •	3.00	k۷		
HP Compressor @ 100% 0.00 kVA > 120 kVA @ 25% 0.00 kVA HP Strip Heat @ 65% 0.00 kVA Remaining L-N Loads @ 100% 4.16 Electric Space Heat @ 65% 0.00 kVA Dryer Load @ 70% 3.56 Electric Space Heat @ 40% 0.00 kVA Range Load @ 70% 4.46 Electric Thermal & Other Heating 0.00 kVA Unbalanced load > 200A @ 70% 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 kVA 97.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 16.76 69.8							1.67			
HP Strip Heat @ 65% Electric Space Heat @ 65% Electric Space Heat @ 40% Electric Thermal & Other Heating TOTAL DEMAND LOAD (PHASE) 0.00 kVA 0.00						_	0.00			
Electric Space Heat @ 65% 0.00 kVA Dryer Load @ 70% 3.5 Electric Space Heat @ 40% 0.00 kVA Range Load @ 70% 4.4 Electric Thermal & Other Heating 0.00 kVA Unbalanced load > 200A @ 70% 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 kVA 97.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 16.74 69.8						_	4.10			
Electric Space Heat @ 40% 0.00 kVA Range Load @ 70% 4.44 Electric Thermal & Other Heating 0.00 kVA Unbalanced load > 200A @ 70% 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 g7.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 16.74 69.8		%			11	• •	3.50			
Electric Thermal & Other Heating 0.00 kVA Unbalanced load > 200A @ 70% 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 kVA AMPS TOTAL DEMAND LOAD (NEUTRAL) 69.8					11 -	_				
TOTAL DEMAND LOAD (PHASE) 23.42 kVA 97.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 69.8							0.00			
97.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 69.8			0.00			2007. @ 1070	3.33			
	TOTAL DEMAND LOAD	(PHASE)			TOTAL D	DEMAND LOAD (NEUTRAL)	16.75 69.81			
Quantity of 15A general lighting circuits (w/ AFCI-P) = 2 OR Quantity of 20A general lighting circuits (w/ AFCI-P) = 2 NDICATED IN THE PANEL SCHED	Quantity of 15A gene	ral lighting o	97.60 eircuits (w/	AMPS AFCI-P) =	: 2	AMP RATING OF THE GEI RECEPTACLE CIRCUIT(S)	69.81 NERAL LIG SHALL BE	A SH		
NOTES:	NOTES:									
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire	Calculations are based	on a 120/2	40-Volt, 1-I	Phase, 3-\	Vire			_		

	ENLARGED UNIT PLAN SYMBOLS LIST
⊕ _v	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Ò	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
IJ _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
®	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
®s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
<u></u>	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.

NOT SHOWN ABOVE



(18,20) **NOTE:** HEAT PUMP DISCONNECT SHOWN HERE FOR CLARITY ONLY. REFER TO OVERALL PLANS FOR HEAT PUMP LOCATION. COORDINATE EXACT LOCATION WITH M.C. PRIOR TO ROUGH-IN

ENLARGED UNIT PLAN - 1 BEDROOM 1/4"=1'-0"

GENERAL NOTES:

- A. AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN. B. ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND
- CEILING FAN BLADE CLEARANCE. PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS. OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT.
- RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY. IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A1171.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

- 1. PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE
- 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION. SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. 4. IN **ACCESSIBLE** UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL
- REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR. RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN.
- EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION. TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.
- COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

- PRELIMINARY -NOT FOR CONSTRUCTION

The Orchards at Naples Road, 341 N Main Street Hendersonville, NC 28792



PROPERTIES

Naple

REVISIONS

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

DWG DECRIPTION: ENLARGED UNIT PLAN -1 BEDROOM

TYPICAL PANEL SCHEDULE FOR 1 BEDROOM TYPE-A UNITS

			<u>VOLTAGE:</u> PHASE / WIRE:	120/ 1φ/								MOUNTI	NG: FLUSH		
			AMPS: AIC:	100 10,0	000							MA	AIN: LUGS (ONLY	
DAD VA	WIRE	TRIP	LOAD NAME			CKZ*	L1		L2	!	UKT*	LOAD NAME	TRIP	WIRE	LOAI KVA
.00	12	20	LIGHTING			1	•	1	+-/	_	2	REC - LIVING ROOM	20	12	0.00
.00	12	20	REC - GENERAL			3		-	•	-	4	REC - KITCHEN	20	12	0.00
00	12	20	REC - KITCHEN			5	•	-		_	6	REFRIGERATOR (NOTE #7)	20	12	0.00
00	12	20	RANGE HOOD			7	_		•		8	DISHWASHER (NOTE #7)	20	12	0.00
00	12	20	DISPOSAL			9	•		1	\	10	BANGE		6	0.00
00	12	20	REC - BEDROOM			11	_		•		12	RANGE	50	6	0.00
00	12	20	REC - BATHROOM			13	-	 		_	14	410 444410450	20	12	0.00
00	12	20	BEDROOM FAN			15			•		16	-AIR HANDLER	20	12	0.00
00	12	20	DRYER BOOSTER FAI	N		17	•	<u> </u>		<u></u>	18	LIEAT BUNAR	4.5	8	0.00
00	12	20	WASHER (NOTE #7)			19	_		•	-	20	HEAT PUMP	15	8	0.00
00	12	20	TELECOM BOX			21	•	-		<u> </u>	22	DRVER	20	10	0.00
00	12	20	TELECOM BOX			23	_		•	-	24	DRYER	30	10	0.00
00	12	20	FIRE ALARM (NOTE #	#8)		25	•		1-7	\	26	WATER LIFATER		6	0.00
00		20	SPARE			27			•		28	-WATER HEATER	50	6	0.00
00		20	SPARE			29	•	-	1	_	30	SPARE	20		0.00
						31		_	•	-	32				
						33	•	+-		_	34				
						35	_		•		36				
						37	•	 		_	38				
						39		-	•		40				
						41	•	-	+		42				
0.0	•						S	UB TOT	ALS						
		LOA	AD (kVA)	Conn.	D.F.	Dmd.				TC	OTAL LOA	AD PER PHASE			
	LIGHTS			0.0	1.25	0.0					CON	NECTED	(NOTE #	10)	
	HEATIN	G		0.0	1.00	0.0	L1=	0.0	kVA		0.0	AMPS			
	COOLIN	G		0.0	1.00		L2=	0.0	kVA		0.0	AMPS			
- 1	VENTILA			0.0	1.00	0.0									
- 1	MOTORS			0.0	1.00	0.0		0.0	1375	- 1		MAND	(NOTE #	10)	
- 1	KITCHEN			0.0	0.65		L1-	0.0	kVA			AMPS			
- 1	REC. (1st			0.0	1.00 0.50	0.0	1	0.0	kVA		0.0	AMPS			
- 1	WATER		<u> </u>	0.0	1.00	0.0				DEM	ΛΑΝΟ ΔΤ	125%	(NOTE #	±10)	
- 1	MISC.	· · · · · · · · · · · · · · · · · · ·		0.0	1.00		L1=	0.0 kVA 0.0 AMPS			(14512#	.0,			
- 1	SPARE			0.0	1.00		L2=	0.0	kVA			AMPS			
			E SHALL BE AS REQ'D			IG.									

5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.

9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.

10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.

7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX). 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.

PROVIDE METAL DIRECTORY FRAME.

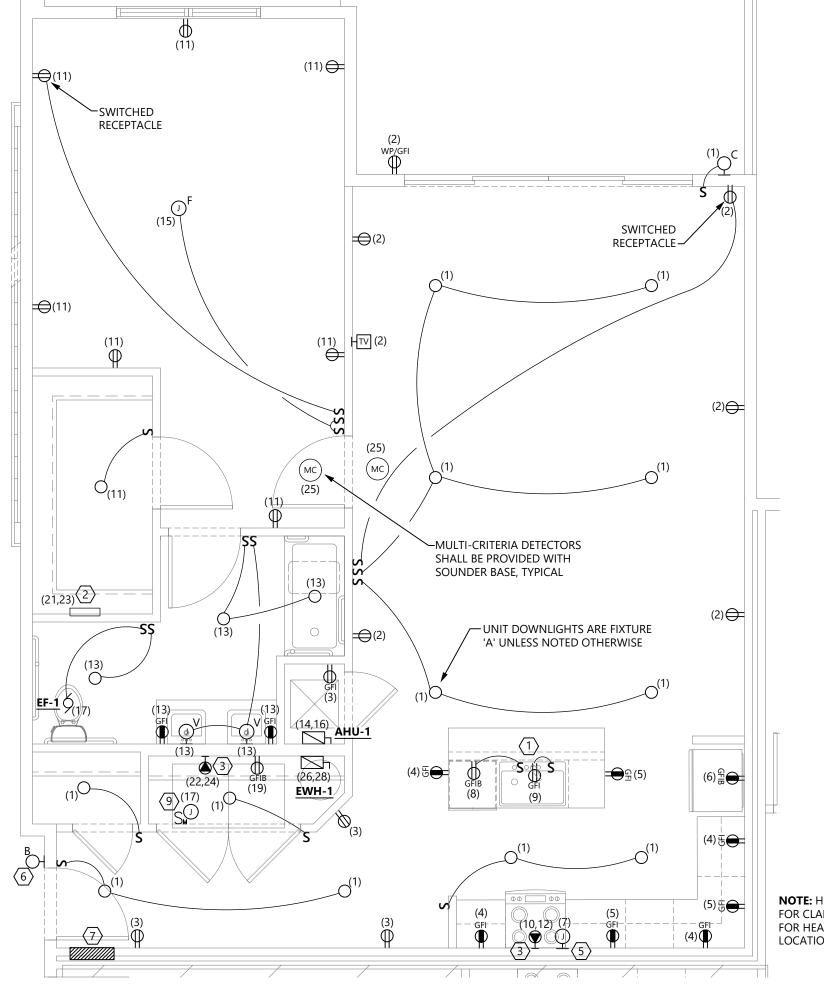
TYPICAL LOAD SUMMARY FOR 1 BEDROOM & 1 BEDROOM TYPE-A UNITS

Phase: 1	Volts Sq Ft	Pro	Project #:	Naples Road Apartments 24-125 Matt Lewis	
1100171100.	المارات		•	3/13/2025	
LOAD	kVA	QTY	kVA	NOTES	
General Lighting Load	3.28	1	3.28	3 VA/SF	2501 B)
(2) Small Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ C	3FCI-P)
Laundry Circuit Electric Range	1.50 8.00		1.50 8.00	Dedicated 20A Ckt	
Clothes Dryer	5.00		5.00		
A/C and Cooling (240V)	3.63	1	3.63		
HP Compressor (240V)	2.19	0	0.00	Enter quantity for only the la	-
Strip Heat (240V)	2.00	0	0.00	following: "A/C and Cooling", strip heat), "Electric Space I	•
Electric Space Heat (240V)	0.00	0	0.00	Thermal & Other Heating".	neat, or Electric
Elec Thermal / Other (240V)	0.00	0	0.00	memai & Other Heating .	
Water Heater (240V)	9.60	1	9.60		
Water Heater (120V)	1.50	0	0.00	(4) 004 014 6 70: 1	. D
Dishwasher	0.80	1 1	0.80	(1) 20A Ckt for Dishwasher 8	•
Disposal Microwave	1.00 1.50	1	1.00 1.50	(1) 20A Ckt for Dishwasher &	x Disposai
Refrigerator	0.80		0.80	Examples of fastened in place	ce appliances are
reingerator	0.00	Ö	0.00	compactors, furnace motors,	
	0.00	0	0.00	pumps, etc. Add these appl	
	0.00	0	0.00	where applicable.	
	0.00	0	0.00		
TOTAL CONNECT	ED LOAD	FOR UNIT	38.11	kVA	
DEMAND LOAD (PH				DEMAND LOAD (NEUT	
1st 10 kVA @ 100%	10.00		11	Small Appliance, Laundry	7.78
Remaining @ 40%	9.7928		III .	(VA @ 100%	3.00 kVA
A/C & Cooling @ 100% HP Compressor @ 100%	1	kVA kVA	II .	'A to 120 kVA @ 35% kVA @ 25%	1.67 kVA 0.00 kVA
HP Strip Heat @ 65%	1	kVA	II	g L-N Loads @ 100%	4.10 kVA
Electric Space Heat @ 65%	1	kVA	Dryer Loa	_	3.50 kVA
Electric Space Heat @ 40%	1	kVA	11 -	ad @ 70%	4.48 kVA
Electric Thermal & Other Heating	1	kVA		ed load > 200A @ 70%	0.00 kVA
TOTAL DEMAND LOAD (PHASE)	23.42 97.60	kVA AMPS	TOTAL D	PEMAND LOAD (NEUTRAL)	16.75 kVA 69.81 AMPS
Quantity of 15A general lighting of OR	circuits (w/	AFCI-P) =	· 2	AMP RATING OF THE GEN RECEPTACLE CIRCUIT(S) S	
Quantity of 20A general lighting of	circuits (w/	AFCI-P) =	2	INDICATED IN THE PANEL	
NOTES:					
1. Calculations are based on a 120/2	40-Volt, 1-	Phase, 3-	Wire		

		EQUIPME	NT CHARAC	TERISTICS	FLA	BAC A	МОСР	FFFDFD	D	DISCONNECT SWITCH							
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	- FLA	MCA	MOCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES				
<u> AHU-1</u>	1 BEDROOM AIR HANDLER	240	1	-	-	16.8	20	3#12,1#12G,3/4"C	30	2	20	1	1				
<u>HP-1</u>	1 BEDROOM HEAT PUMP	240	1	-	-	11.4	15	NOTE 3	30	2	15	3R	1,3				
EWH-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1				
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH								
OTES:																	
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CON	INECTION TY	PES, BREAKER	SIZES, ETC	C. WITH API	PROVED MEC	CHANICAL EQUIPMENT SUB	MITTALS PR	IOR TO RO	UGH-IN AI	ND					
	INSTALLATION. ALL ROUGH-INS :	SHALL BE REVI	EWED AND A	PPROVED BY I	MECHANIC	AL CONTR	ACTOR.										
2	FAN POWERED VIA LOCAL LIGHT	ING CIRCUIT. C	ONNECT TO	SWITCH SHO	WN ON EN	NLARGED U	NIT PLANS										
	WIRE SIZE VARIES BASED ON DIS	TANICE EDONA	LINUT DANIEL	TO 51/TEDIOD	LIEAT DUA	4D DEEED T	0.01/50411	DI ANIC ANID CITE EACH LINE	T	4D TO 466	01 IN IT E0 B	VOLTAGE DE					

	ENLARGED UNIT PLAN SYMBOLS LIST
⊕ _v	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Ò	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
① _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
<u> </u>	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
®s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
9	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.

NOT SHOWN ABOVE



(18,20) **NOTE:** HEAT PUMP DISCONNECT SHOWN HERE FOR CLARITY ONLY. REFER TO OVERALL PLANS FOR HEAT PUMP LOCATION. COORDINATE EXACT LOCATION WITH M.C. PRIOR TO ROUGH-IN

ENLARGED UNIT PLAN - 1 BEDROOM TYPE-A 1/4"=1'-0"

GENERAL NOTES:

- A. AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN. B. ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND
- CEILING FAN BLADE CLEARANCE. PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS. OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.
- IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A1171.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

- 1. PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE
- 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION. SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. 4. IN **ACCESSIBLE** UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL
- REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR. RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN.
- EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION. TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.
- COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES. 9. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

- PRELIMINARY -NOT FOR CONSTRUCTION

The Orchards at Naples Road, 341 N Main Street Hendersonville, NC 28792



Naple

REVISIONS

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

DWG DECRIPTION: ENLARGED UNIT PLAN -1 BEDROOM TYPE-A

TYPICAL PANEL SCHEDULE FOR 2 BEDROOM TYPE-A UNITS

N	IEW PANEL:	2-BDRM TYPE-A	
<u>VOLTAGE:</u> PHASE / WIRE:	120/ 240 1φ/ 3W	MOUNTING: FLUSH	
AMPS:	125	MAIN: LUGS ONLY	
AIC:	10,000		

LOAD	4			××						*			4	LOAD
KVA	WIRE	TRIP	LOAD NAME	*كين	L	.1		L2	2	هرانهٔ	LOAD NAME	TRIP	WIRE	KVA
0.00	12	20	LIGHTING	1	<u> </u>	•		_	$\overline{\Box}$	2	REC - LIVING ROOM	20	12	0.00
0.00	12	20	REC - GENERAL	3		<u></u>		4		4	REC - KITCHEN	20	12	0.00
0.00	12	20	REC - KITCHEN	5	\vdash	•		-/	eg	6	REFRIGERATOR (NOTE #7)	20	12	0.00
0.00	12	20	RANGE HOOD	7		-		•	-	8	DISHWASHER (NOTE #7)	20	12	0.00
0.00	12	20	DISPOSAL	9		-		-/	$\overline{}$	10	DANCE	50	6	0.00
0.00	12	20	REC - MASTER BEDROOM	11		_		•		12	RANGE	50	6	0.00
0.00	12	20	MASTER BATHROOM	13				-/		14	AIR HANDLER	25	10	0.00
0.00	12	20	FAN - MASTER BEDROOM	15		1		•	\vdash	16	AIR HANDLER	25	10	0.00
0.00	12	20	DRYER BOOSTER FAN	17					\	18	HEAT PUMP	20	8	0.00
0.00	12	20	WASHER (NOTE #7)	19		_		•		20	TILAT FOIVIF	20	8	0.00
0.00	12	20	TELECOM BOX	21				-/	1	22	DRYER	30	10	0.00
0.00	12	20	TELECOM BOX	23		_	-	•		24	DATEN	30	10	0.00
0.00	12	20	FIRE ALARM (NOTE #8)	25	$oxed{oxed}$		-	-/		26	-WATER HEATER	50	6	0.00
0.00	12	20	REC - BEDROOM #2	27		-		•		28	WATER HEATER	30	6	0.00
0.00	12	20	BATHROOM #2	29				1	7	30	SPARE	20		
0.00	12	20	FAN - BEDROOM #2	31		1		•		32	SPARE	20		
		20	SPARE	33			-	-1		34	SPARE	20		
		20	SPARE	35				•	\blacksquare	36	SPARE	20		
		20	SPARE	37				7		38	SPARE	20		
		20	SPARE	39		-		•		40	SPARE	20		
		20	SPARE	41				-/		42	SPARE	20		

20 STAIL			71				TE STAIL	20
)				SUB	TOTA	ALS		
LOAD (kVA)	Conn.	D.F.	Dmd.			7	TOTAL LOAD PER PHASE	
LIGHTS	0.0	1.25	0.0				CONNECTED	(NOTE #10)
HEATING	0.0	1.00	0.0	L1=	0.0	kVA	0.0 AMPS	
COOLING	0.0	1.00	0.0	L2=	0.0	kVA	0.0 AMPS	
VENTILATION	0.0	1.00	0.0					
MOTORS	0.0	1.00	0.0				DEMAND	(NOTE #10)
KITCHEN	0.0	0.65	0.0	L1-	0.0	kVA	0.0 AMPS	
REC. (1st 10kVA)	0.0	1.00	0.0	L2-	0.0	kVA	0.0 AMPS	
REC. (>10kVA)	0.0	0.50	0.0					
WATER HEATER	0.0	1.00	0.0			DE	MAND AT 125%	(NOTE #10)
MISC.	0.0	1.00	0.0	L1=	0.0	kVA	0.0 AMPS	
SPARE	0.0	1.00	0.0	L2=	0.0	kVA	0.0 AMPS	

- 1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
- 2. SHALL BE FULLY RATED SERIES RATINGS NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
- 4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.
- 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 6. PROVIDE METAL DIRECTORY FRAME.
- 7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).
- 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.
- 9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS. 10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.

INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.

FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS

	MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 2 BEDROOM UNITS												
		EQUIPMI	ENT CHARA	CTERISTICS	FLA	MCA	МОСР	FEEDER	DISCONNECT SWITCH				
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	IVICA	MOCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>AHU-2</u>	1 BEDROOM AIR HANDLER	240	1	-	-	24.9	25	3#10,1#10G,1"C	30	2	25	1	1
<u>HP-2</u>	1 BEDROOM HEAT PUMP	240	1	ı	-	13.8	20	NOTE 3	30	2	20	3R	1,3
<u>EWH-1</u>	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	N	10TOR SN	AP SWITCH	1	1,2
NOTES:													

WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND

TYPICAL LOAD SUMMARY FOR 2 BEDROOM, 2 **BEDROOM TYPE-A, & 2 BEDROOM ACCESSIBLE** UNITS

Phase:	240 V 1		Pro	Project #:		
Floor Area: 1	427 S	q Ft		-	Matt Lewis 3/13/2025	
LOAD		kVA	QTY	kVA	NOTES	
General Lighting Load		4.28	1	4.28	3 VA/SF	
(2) Small Appliance Circuits		3.00	1	3.00	(2) Dedicated 20A Ckts (w/	GFCI-P)
Laundry Circuit		1.50	1	1.50	Dedicated 20A Ckt	
Electric Range		8.00	1	8.00		
Clothes Dryer		5.00	1	5.00		
A/C and Cooling (240V)		5.44	1	5.44	Enter quantity for only the la	argest of the
HP Compressor (240V)		2.65	0	0.00	following: "A/C and Cooling"	-
Strip Heat (240V)		2.00	0	0.00	strip heat), "Electric Space	Heat", or "Electric
Electric Space Heat (240V)		0.00	0	0.00	Thermal & Other Heating".	
Elec Thermal / Other (240V)		0.00	0	0.00		
Water Heater (240V)		9.60	1	9.60		
Water Heater (120V)		1.50	0	0.00	(4) 20A Clif for Diahimohan	0 Diamanal
Dishwasher		0.80	1	0.80	(1) 20A Ckt for Dishwasher	•
Disposal		1.00	1	1.00	(1) 20A Ckt for Dishwasher	& Disposai
Microwave		1.50	1	1.50	Examples of fastened in pla	oo applianees are
Refrigerator		0.80 0.00	1	0.80	compactors, furnace motors	
		0.00	0	0.00	pumps, etc. Add these app	
		0.00	0	0.00	where applicable.	mances murvicually
		0.00	0	0.00	Типете аррпсавте.	
TOTAL CONNE	CTEC				kVA	
			OIX OIXII	1 10.02		
DEMAND LOAD	PHAS		1.3.74		DEMAND LOAD (NEUT	
1st 10 kVA @ 100%		10.00		1	Small Appliance, Laundry	8.78
Remaining @ 40%		10.1924	kVA kVA		VA @ 100% A to 120 kVA @ 35%	3.00 kVA 2.02 kVA
A/C & Cooling @ 100% HP Compressor @ 100%			kVA kVA	II		0.00 kVA
HP Strip Heat @ 65%			kVA kVA	II	kVA @ 25% g L-N Loads @ 100%	4.10 kVA
Electric Space Heat @ 65%			kVA kVA	Dryer Loa		3.50 kVA
Electric Space Heat @ 40%			kVA	11 -	ad @ 70%	4.48 kVA
Electric Space Heat @ 40 % Electric Thermal & Other Heating			kVA		ed load > 200A @ 70%	0.00 kVA
Listing Heimar & Stroit Floating		0.00		Oribalario	200/(@/0//	0.00 KV/
TOTAL DEMAND LOAD (PHAS	E)	25.63 106.80	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.10 kVA 71.26 AMPS
Quantity of 15A general lighti	ng circ	cuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN	IERAL LIGHTING
OR			•		RECEPTACLE CIRCUIT(S)	SHALL BE AS
Quantity of 20A general lighti	ng circ	cuits (w/	<u> </u>	2	INDICATED IN THE PANEL	SCHEDULES.
NOTES:						
NOTES:	20/040	117-14 A I	DI 0.1	A /:		
 Calculations are based on a 12 	∠U/∠4U	-voit, 1-l	rnase, 3-\	viie		

FOR CLARITY ONLY, REFER TO OVERALL PLANS FOR HEAT PUMP LOCATION, COORDINATE EXACT LOCATION WITH M.C. PRIOR TO ROUGH-IN	$\bigoplus_{(27)}$
(11) SWITCHED RECEPTACLE	SWITCHED RECEPTACLE
(11) (11) (11) (11) (25) (11)	
(2)(21,23)	UNIT DOWNLIGHTS ARE FIXTURE 'A' UNLESS NOTED OTHERWISE MULTI-CRITERIA DETECTORS SHALL BE PROVIDED WITH SOUNDER BASE, TYPICAL (1) (29) (29) (29) (1) (29) (29) (3) (6) (6)
(13) (13) (13) (13) (13) (13) (13) (13)	/1

ENLARGED UNIT PLAN - 2 BEDROOM TYPE-A

ENLARGED UNIT PLAN SYMBOLS LIST

CIRCUIT AND SWITCH SHOWN ON PLANS.

DESIGNATIONS.

DESIGNATIONS.

NOT SHOWN ABOVE

DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO

ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT

NOTE: REFER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS

<u>HP-2</u> (18,20)

NOTE: HEAT PUMP DISCONNECT SHOWN HERE FOR CLARITY ONLY. REFER TO OVERALL PLANS

- AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN.
- B. ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND
- PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS.
- IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A1171.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE.
- REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN. EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME
- CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION.
- TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL
- 9. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN. MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. PLANS AND PANEL SCHEDULES RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY. MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS 6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION. CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED IN **ACCESSIBLE** UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS. WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK. FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES. SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS), REFER TO

- PRELIMINARY -NOT FOR CONSTRUCTION

The Orchards at Naples Road, 341 N Main Street Hendersonville, NC 28792 Luis Graef: President



REVISIONS

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

DWG DECRIPTION: ENLARGED UNIT PLAN -2 BEDROOM TYPE-A

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM TYPE-A UNITS

			VOLTAGE:	120/ 2							MOUNTI	NG: FLUSH			
			PHASE / WIRE:	1φ/ 3	3W										
			AMPS:	125							<u>M</u>	AIN: LUGS (YINC		
			AIC:	10,0	00										
OAD (VA	WIRE	TRIP	LOAD NAME			U ^X *	L1		L2	رين*	LOAD NAME	TRIP	WIRE	LOAE KVA	
0.00	12	20	LIGHTING			1	•		-	2	REC - LIVING ROOM	20	12	0.00	
.00	12	20	REC - GENERAL			3			•	4	REC - KITCHEN	20	12	0.00	
0.00	12	20	REC - KITCHEN			5	•			- 6	REFRIGERATOR (NOTE #7)	20	12	0.00	
0.00	12	20	RANGE HOOD			7	_		•	- 8	DISHWASHER (NOTE #7)	20	12	0.00	
0.00	12	20	DISPOSAL			9	•		+	10	DANCE	FO	6	0.00	
.00	12	20	REC - MASTER BEDR	MOON		11			•	12	RANGE	50	6	0.00	
0.00	12	20	MASTER BATHROOM	1		13	•			14	AIR HANDLER	30	10	0.00	
0.00	12	20	FAN - MASTER BEDR	ROOM		15	\leftarrow		•	16	AIN HANDLEN	30	10	0.00	
).10	12	20	DRYER BOOSTER FA	N		17	-		+	- 18	HEAT PUMP	25	8	0.00	
.00	12	20	WASHER (NOTE #7)			19			•	20	TIEAT TOWN	23	8	0.00	
0.00	12	20	TELECOM BOX			21	•		+	- 22	DRYER	30	10	0.00	
.00	12	20	TELECOM BOX			23			•	24	DIVIER	30	10	0.00	
0.00	12	20	FIRE ALARM (NOTE			25	•			26	WATER HEATER	50	6	0.00	
0.00	12	20	REC - BEDROOM #2			27			•	28			6	0.00	
0.00	12	20	BATHROOM #2			29	•		+	30	SPARE	20			
0.00	12	20	FAN - BEDROOM #2			31			•	32	REC - BEDROOM #3	20	12		
0.00	12	20	FAN - BEDROOM #3	2		33	•			34	SPARE	20			
		20	SPARE			35			$lack {f \Phi}$	36	SPARE	20			
		20	SPARE			37	•			38	SPARE	20			
			SPARE			39			•	40	SPARE	20			
		20	SPARE			41	•		$\pm \uparrow$	42	SPARE	20			
0.1	<u> </u>						SI	UB TOT							
		LOA	D (kVA)	Conn.	D.F.	Dmd.					AD PER PHASE				
	LIGHTS HEATING			0.0	1.25	0.0	L1=	0.1	LAZZA		INECTED B AMPS	(NOTE #	ŧ10)		
	COOLING			0.0	1.00 1.00		L1= L2=	0.1 0.0	kVA kVA		O AMPS				
	VENTILA			0.0	1.00	0.0	i	0.0	NVA	0.0	5 AIVII 5				
	MOTORS			0.1	1.00	0.1				DE	MAND	(NOTE #	±10)		
	KITCHEN			0.0	0.65		L1-	0.1	kVA		3 AMPS	Ì			
	REC. (1st	10kVA)		0.0	1.00	0.0	L2-	0.0	kVA	0.0	O AMPS				
	REC. (>1			0.0	0.50	0.0									
	WATER	HEATER		0.0	1.00	0.0				MAND A		(NOTE #	[‡] 10)		
	MISC.			0.0	1.00		L1=	0.1	kVA		O AMPS				
	SPARE			0.0	1.00	0.0	L2=	0.0	kVA	0.0	O AMPS				

1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER. 4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS. 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.

7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX). 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.

9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.

INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.

2 FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS

10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.

PROVIDE METAL DIRECTORY FRAME.

TYPICAL LOAD SUMMARY FOR 3 BEDROOM, 3 **BEDROOM TYPE-A,** & 3 **BEDROOM ACCESSIBLE** UNITS

Voltage (L-L):	40 Volts	Pro	oject Name:	Naples Road Apartments		
Phase:	1		Project #:			
Floor Area: 17	16 Sq Ft		•	Matt Lewis 3/13/2025		
LOAD	kVA	QTY	kVA	NOTES		
General Lighting Load	5.15	1	5.15	3 VA/SF		
(2) Small Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ 0	GFCI-P)	
Laundry Circuit	1.50	1	1.50	Dedicated 20A Ckt	,	
Electric Range	8.00	1	8.00			
Clothes Dryer	5.00	1	5.00			
A/C and Cooling (240V)	5.72	1	5.72	E		
HP Compressor (240V)	3.26	0	0.00	Enter quantity for only the largest of the		
Strip Heat (240V)	2.00	0	0.00	following: "A/C and Cooling",		
Electric Space Heat (240V)	0.00	0	0.00	strip heat), "Electric Space F	Heat", or	Electric
Elec Thermal / Other (240V)	0.00	0	0.00	Thermal & Other Heating".		
Water Heater (240V)	9.60	1	9.60			
Water Heater (120V)	1.50	0	0.00			
Dishwasher	0.80	1	0.80	(1) 20A Ckt for Dishwasher 8	Disposa	ıl
Disposal	1.00	1	1.00	(1) 20A Ckt for Dishwasher 8		
Microwave	1.50	1	1.50			
Refrigerator	0.80	1	0.80	Examples of fastened in place	e appliar	ices are
· ·	0.00	0	0.00	compactors, furnace motors,	attic fan	s, water
	0.00	0	0.00	pumps, etc. Add these appl	iances in	dividually
	0.00	0	0.00	where applicable		
	0.00	0	0.00			
TOTAL CONNE	CTED LOAD	FOR UNI	T 42.07	kVA		
DEMAND LOAD (F	PHASE)			DEMAND LOAD (NEUTF	RAL)	
1st 10 kVA @ 100%	10.00	kVA	Gen Ltg,	Small Appliance, Laundry	9.65	
Remaining @ 40%	10.5392	kVA	1st 3 k	VA @ 100%	3.00	kVA
A/C & Cooling @ 100%	5.72	kVA	> 3 kV	A to 120 kVA @ 35%	2.33	kVA
HP Compressor @ 100%	0.00	kVA	> 120	kVA @ 25%	0.00	kVA
HP Strip Heat @ 65%	0.00	kVA	Remaining	g L-N Loads @ 100%	4.10	kVA
Electric Space Heat @ 65%	0.00	kVA	Dryer Loa	d @ 70%	3.50	kVA
Electric Space Heat @ 40%	0.00	kVA	Range Lo	ad @ 70%	4.48	kVA
Electric Thermal & Other Heating	0.00	kVA	Unbalance	Unbalanced load > 200A @ 70%		kVA
TOTAL DEMAND LOAD (PHASE	26.26	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.41 72.53	kVA AMPS
Quantity of 15A general lightin	l .		= 3	AMP RATING OF THE GEN		
OR Quantity of 20A general lightin				RECEPTACLE CIRCUIT(S) S INDICATED IN THE PANELS	SHALL BI	E AS
NOTES:					-	
1. Calculations are based on a 120	0/240-Volt 1-	Phase 3-	Wire			
Salesiansile are sales on a 120	- . • • • • • • • • • • • • • • • • • •					

		(32)€
<u>HP-3</u> (18,20)		(25) (32) X
NOTE: HEAT PUMP DISCONNECT SHOWN HERE FOR CLARITY ONLY. REFER TO OVERALL PLANS FOR HEAT PUMP LOCATION. COORDINATE EXACT LOCATION WITH M.C. PRIOR TO ROUGH-IN		(25) S ₃
(1) (1)	(1) (3) (5) (5) (5)	(4) \$\vec{v}{\operatorname{\op
6		(5) (3) (22,24) (19) (26,28) (26,28)
(1) (14,16) (13)		(6) $\frac{6}{3}$ (29) (29) (29) (29) (29)
(13) (13) (13) (13)		(1)
(13)	(25) MC	(2) (29)
SSS (3)	-MULTI-CRITERIA DET SHALL BE PROVIDED SOUNDER BASE, TYP	WITH (25) / (25)
(1) (1) (11) (25)	(1) (1) (2)	(27) €
\$\$\$ (25) MC		(2) [7] (31) (31) F
(11) \	UNIT DOWNLIGHTS ARE FIXTURE 'A' UNLESS NOTED OTHERWISE	SWITCHED RECEPTACLE
	(1) (1)	(27) ⊕
(15) () _F	RECEPTACLE S	2) DC
SWITCHED RECEPTACLE	WP/GFI (1)	
(11) (11) (11) (11)) 🖨	

ENLARGED UNIT PLAN - 3 BEDROOM TYPE-A

		EQUIPME	NT CHARAC	TERISTICS	FLA	NACA	NAOCD	FFFFF	DISCONNECT SWITCH				
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	MCA	MOCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>AHU-3</u>	1 BEDROOM AIR HANDLER	240	1	-	-	26.4	30	3#10,1#10G,1"C	30	2	30	1	1
<u>HP-3</u>	1 BEDROOM HEAT PUMP	240	1	-	-	17	25	NOTE 3	30	2	25	3R	1,3
EWH-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	_	2#12,1#12G,3/4"C	N	OTOR SN	AP SWITCH	-	1,2

3 WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

⊕ _v	DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS.
MC	MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
Ò	MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS
0	6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES
IJ _F	CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER
@	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
⊕s	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.
<u></u>	FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.

GENERAL NOTES: ENILADCED LINIT DI ANI CVMPOI CILICT A. AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN. ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND CEILING FAN BLADE CLEARANCE. PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS. OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN. ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY. IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117I.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR. 1. PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION. SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. IN **ACCESSIBLE** UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR. RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN. EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION. TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK. COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

SWITCHED RECEPTACLE-

> - PRELIMINARY -NOT FOR CONSTRUCTION

The Orchards at Naples Road, 341 N Main Street Hendersonville, NC 28792 Luis Graef: President



REVISIONS

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: MFL CHECKED BY: JK

DWG DECRIPTION: ENLARGED UNIT PLAN -3 BEDROOM TYPE-A

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM ACCESSIBLE UNITS

VOLTAGE: 120/ 240 PHASE / WIRE: 1 p/ 3 W AMPS: 125 MAIN: LUG	5 ONLY		
1			
12 20 REC - GENERAL 3 4 REC - KITCHEN 20	1/1/	, LOAD KVA	
0.00 12 20 REC - GENERAL 3 4 REC - KITCHEN 20	12	0.00	
0.00 12 20 RANGE HOOD 7	12	0.00	
10	12	0.00	
12 20 REC - MASTER BEDROOM 11 12 12 14 14 15 16 16 16 16 16 16 16	12	0.00	
12 20 REC - MASTER BEDROOM 11 12 12 14 AIR HANDLER 30 15 16 16 16 16 16 16 16	6	0.00	
12 20	6	0.00	
0.00 12 20 FAN - MASTER BEDROOM 15 16 0.10 12 20 DRYER BOOSTER FAN 17 18 HEAT PUMP 25 0.00 12 20 WASHER (NOTE #7) 19 20 DRYER 30 0.00 12 20 TELECOM BOX 21 22 DRYER 30 0.00 12 20 FIRE ALARM (NOTE #8) 25 26 WATER HEATER 50 0.00 12 20 REC - BEDROOM #2 27 28 WATER HEATER 50 0.00 12 20 BATHROOM #2 29 30 SPARE 20 0.00 12 20 FAN - BEDROOM #2 31 32 REC - BEDROOM #3 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 0.00 12 </td <td>10</td> <td>0.00</td>	10	0.00	
0.00 12 20 WASHER (NOTE #7) 19 20 HEAT PUMP 25 0.00 12 20 TELECOM BOX 21 22 DRYER 30 0.00 12 20 FIRE ALARM (NOTE #8) 25 26 WATER HEATER 50 0.00 12 20 REC - BEDROOM #2 27 28 WATER HEATER 20 0.00 12 20 BATHROOM #2 29 30 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 FARE 20 0.00 12 20 FAN - BEDROOM #3 33 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 SPARE 20 0.00 12 20 SPARE 35 36 SPARE 20 0.00 SPARE 37 38 SPARE 20 0.00 SPARE 37 40 SPARE 20 0.00 SPARE 39 40 SPARE 20 0.00 SPARE 39 40 SPARE 20 0.00 SPARE 39 40 SPARE 20	10	0.00	
0.00 12 20 WASHER (NOTE #7) 19 20 0.00 12 20 TELECOM BOX 21 22 DRYER 30 0.00 12 20 FIRE ALARM (NOTE #8) 25 26 WATER HEATER 50 0.00 12 20 REC - BEDROOM #2 27 28 WATER HEATER 50 0.00 12 20 BATHROOM #2 29 30 SPARE 20 0.00 12 20 FAN - BEDROOM #2 31 32 REC - BEDROOM #3 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 40 SPARE 20 20 SPARE 41 42 SPARE 20	8	0.00	
0.00 12 20 TELECOM BOX 23 24 DRYER 30 0.00 12 20 FIRE ALARM (NOTE #8) 25 26 WATER HEATER 50 0.00 12 20 REC - BEDROOM #2 27 28 WATER HEATER 50 0.00 12 20 BATHROOM #2 29 30 SPARE 20 0.00 12 20 FAN - BEDROOM #2 31 32 REC - BEDROOM #3 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 0.00 12 20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS SUB TOTALS SUB TOTALS SUB TOTALS	8	0.00	
0.00 12 20 TELECOM BOX 23 24 24 0.00 12 20 FIRE ALARM (NOTE #8) 25 26 WATER HEATER 50 0.00 12 20 REC - BEDROOM #2 27 28 WATER HEATER 50 0.00 12 20 BATHROOM #2 29 30 SPARE 20 0.00 12 20 FAN - BEDROOM #2 31 32 REC - BEDROOM #3 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 0.00 12 20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS SUB TOTALS SUB TOTALS SUB TOTALS	10	0.00	
0.00 12 20 REC - BEDROOM #2 27 28 WATER HEATER 50 0.00 12 20 BATHROOM #2 29 30 SPARE 20 0.00 12 20 FAN - BEDROOM #2 31 32 REC - BEDROOM #3 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS SUB TOTALS SUB TOTALS SUB TOTALS SUB TOTALS	10	0.00	
0.00 12 20 REC - BEDROOM #2 27 28 0.00 12 20 BATHROOM #2 29 30 SPARE 20 0.00 12 20 FAN - BEDROOM #2 31 32 REC - BEDROOM #3 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS SUB TOTALS SUB TOTALS SUB TOTALS	6	0.00	
0.00 12 20 FAN - BEDROOM #2 31 32 REC - BEDROOM #3 20 0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS	6	0.00	
0.00 12 20 FAN - BEDROOM #3 33 34 SPARE 20 20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS		0.00	
20 SPARE 35 36 SPARE 20 20 SPARE 37 38 SPARE 20 20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS	12		
20 SPARE 20 SUB TOTALS			
20 SPARE 39 40 SPARE 20 20 SPARE 41 42 SPARE 20 0.1 SUB TOTALS			
20 SPARE 41 42 SPARE 20 SUB TOTALS			
0.1 SUB TOTALS			
LOAD (kVA) Conn. D.F. Dmd. TOTAL LOAD PER PHASE		0	
LIGHTS 0.0 1.25 0.0 CONNECTED (NOT	#10)		
HEATING 0.0 1.00 0.0 L1= 0.1 kVA 0.8 AMPS			
COOLING 0.0 1.00 0.0 L2= 0.0 kVA 0.0 AMPS			
VENTILATION 0.0 1.00 0.0			
	(NOTE #10)		
KITCHEN 0.0 0.65 0.0 L1- 0.1 kVA 0.8 AMPS REC. (1st 10kVA) 0.0 1.00 0.0 L2- 0.0 kVA 0.0 AMPS			

0.0 L1=

0.0 L2=

0.0 kVA

WATER HEATER

SPARE

- 1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.
- 2. SHALL BE FULLY RATED SERIES RATINGS NOT ALLOWED. 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.
- 4. ALL INCOMING PANEL AND BRKR LUGS SHALL MATCH FEEDERS.
- 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.
- 6. PROVIDE METAL DIRECTORY FRAME. 7. PROVIDE CLASS A GFI (6mA-PERSONNEL) BRKR (250' MAX).
- 8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.
- 9. PROVIDE AFCI (ARC FAULT CIRCUIT INTERRUPTING) BREAKER FOR ALL DWELLING UNIT CIRCUITS.

INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.

2 FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS

0.0 1.00

10. SEE LOAD SUMMARY TABLE ON THIS SHEET FOR CONNECTED AND DEMAND LOADS.

	MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 3 BEDROOM UNITS												
		EQUIPME	NT CHARAC	CTERISTICS	FLA	MCA	МОСР	FEEDER	DISCONNECT SWITCH			1	
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	TLA	IVICA	IVIOCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
<u>AHU-3</u>	1 BEDROOM AIR HANDLER	240	1	-	-	26.4	30	3#10,1#10G,1"C	30	2	30	1	1
<u>HP-3</u>	1 BEDROOM HEAT PUMP	240	1	-	-	17	25	NOTE 3	30	2	25	3R	1,3
<u>EWH-1</u>	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
<u>EF-1</u>	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	N	10TOR SN	AP SWITCH	1	1,2
NOTES:													

WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP

COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND

DEMAND AT 125%

0.0 AMPS

(NOTE #10)

TYPICAL LOAD SUMMARY FOR 3 BEDROOM, 3 **BEDROOM TYPE-A,** & 3 **BEDROOM ACCESSIBLE** UNITS

Voltage (L-L): 240	Volts	Proj	ect Name:	Naples Road Apartments	
Phase: 1			Project #:		
Floor Area: 1716	Sq Ft		•	Matt Lewis	
				3/13/2025	
LOAD	kVA	QTY	kVA	NOTES	
General Lighting Load	5.15	1	5.15	3 VA/SF	DECLEY
(2) Small Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ C	5FCI-P)
Laundry Circuit	1.50		1.50	Dedicated 20A Ckt	
Electric Range	8.00	1	8.00		
Clothes Dryer	5.00	1	5.00		
A/C and Cooling (240V)	5.72	1	5.72	Enter quantity for only the la	rgest of the
HP Compressor (240V)	3.26	0	0.00	following: "A/C and Cooling",	"HP" (with or w/o
Strip Heat (240V)	2.00 0.00	0	0.00 0.00	strip heat), "Electric Space F	leat", or "Electric
Electric Space Heat (240V) Elec Thermal / Other (240V)	0.00	0	0.00	Thermal & Other Heating".	
	9.60	0	9.60		
` ,			0.00		
Water Heater (120V) Dishwasher	1.50 0.80	0	0.00	(1) 20A Ckt for Dishwasher 8	Dianocal
Disniwasher Disposal	1.00	1 1	1.00	(1) 20A Ckt for Dishwasher 8	
Microwave	1.50	1	1.50	(1) ZOA CKI IOI DISTIWASTIEI 6	Disposal
Refrigerator	0.80		0.80	Examples of fastened in place	e annliances are
rtelligerator	0.00		0.00	compactors, furnace motors,	
	0.00		0.00	pumps, etc. Add these appl	
	0.00		0.00	where applicable.	ianoes marviadany
	0.00		0.00	того арриоамо.	
TOTAL CONNECT	ED LOAD	FOR UNIT	42.07	kVA	
DEMAND LOAD (PH	ASE)			DEMAND LOAD (NEUTF	RAL)
1st 10 kVA @ 100%	10.00	kVA	Gen Lta.	Small Appliance, Laundry	9.65
Remaining @ 40%	10.5392		•	VA @ 100%	3.00 kVA
A/C & Cooling @ 100%		kVA	II	A to 120 kVA @ 35%	2.33 kVA
HP Compressor @ 100%		kVA	II	kVA @ 25%	0.00 kVA
HP Strip Heat @ 65%		kVA	II	g L-N Loads @ 100%	4.10 kVA
Electric Space Heat @ 65%		kVA	Dryer Loa	_	3.50 kVA
Electric Space Heat @ 40%	0.00	kVA	Range Lo	_	4.48 kVA
Electric Thermal & Other Heating			ed load > 200A @ 70%	0.00 kVA	
TOTAL DEMAND LOAD (PHASE)	26.26 109.41	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.41 kVA 72.53 AMPS
Quantity of 15A general lighting of OR	circuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN RECEPTACLE CIRCUIT(S) S	
Quantity of 20A general lighting of	circuits (w/	AFCI-P) =	3	INDICATED IN THE PANEL	

HP-3 (18,20) NOTE: HEAT PUMP DISCONNECT SHOWN HERE FOR CLARITY ONLY. REFER TO OVERALL PLANS FOR HEAT PUMP LOCATION. COORDINATE EXACT LOCATION WITH M.C. PRIOR TO ROUGH-IN (1) (3) (1) (1)	(1) (3) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	$(19) \qquad (19) \qquad EWH-1$
(21,23) (2) (13) (13) (13) (13) (13) (13) (13) (13	(1) (1) (1) (2) MULTI-CRITERIA DETECTORS SHALL BE PROVIDED WITH SOUNDER BASE, TYPICAL (1) (2) (1) (2) (2) (2) (2) (2)	(29) (29) (29) (29) (29) (29) (29) (29) (29) (29) (29)
(11) (11) (11) (11) (11) (11) (11) (11)	()	SWITCHED RECEPTACLE— (27)

ENLARGED UNIT PLAN - 3 BEDROOM ACCESSIBLE

GENERAL NOTES:

- AUDIBLE FIRE ALARM IN APARTMENT UNITS MUST INCLUDE 520HZ HORN.
- ALL SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE WITH SOUNDER BASE. SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 3' FROM MECHANICAL AIR DIFFUSERS AND CEILING FAN BLADE CLEARANCE.
- PROVIDE ARC FAULT CURRENT INTERRUPTER PROTECTION FOR ALL CIRCUITS IN RESIDENT UNITS PER NEC 210.12. COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- ALL ADA UNITS SHALL HAVE 177CD HORN/STROBES IN BEDROOM/COMMON AREAS AND 15CD STROBE IN BATHROOMS. OUTLETS ARE NOT TO BE LOCATED BACK-TO-BACK IN COMMON WALLS BETWEEN ROOMS. VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
- ALL 15A AND 20A RECEPTACLES IN RESIDENT UNITS SHALL BE TAMPER RESISTANT. RECEPTACLES ABOVE KITCHEN COUNTERTOP SHALL BE MOUNTED HORIZONTALLY.
- IN ACCESSIBLE UNITS, ALL LIGHTING CONTROLS, ELECTRICAL SWITCHES (INCLUDING CIRCUIT BREAKERS), AND RECEPTACLE OUTLETS SHALL BE MOUNTED WITHIN A REACH RANGE SPECIFIED IN ANSI A117I.1 SECTION 308. COORDIANTE ALL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.

- DISHWASHER. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE
- REQUIREMENTS AND ROUGH-IN LOCATIONS WITH OWNER AND ARCHITECT IN FIELD PRIOR TO ROUGH-IN. RELOCATION OF DEVICES AFTER INSTALLATION AS A RESULT OF LACK OF COORDINATION WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- EXTERIOR FIXTURE TO BE POWERED VIA HOUSE PANEL, SEE OVERALL PLAN FOR CIRCUIT DESIGNATION. FIXTURE TO BE CONTROLLED VIA EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, AND PHOTOCELL. SEE DETAIL AND OVERALL PLAN FOR MORE INFORMATION.
- TYPICAL UNIT PANEL LOCATION. SEE OVERALL PLANS FOR PANEL DESIGNATION FOR EACH UNIT AND POWER RISER DIAGRAM FOR PANEL/FEEDER SIZE. PANELS THAT SHARE WALL WITH ADJACENT UNIT SHALL NOT BE INSTALLED BACK TO BACK.

DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO CIRCUIT AND SWITCH SHOWN ON PLANS. MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES MOTOR CONNECTION FOR BATHROOM EXHAUST FAN. PROVIDE DOUBLE GANG JUNCTION BOX AND 20A MOTOR RATED SWITCH FOR DISCONNECT. CONNECT TO RESTROOM LIGHT CIRCUIT AND CONTROL VIA SWITCH SHOWN ON PLANS 6" SURFACE MOUNTED DOWNLIGHT. 1,200 LUMENS. 3000K, 120V. BASED ON HALO 'SMD6'. CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED BY OWNER FLUSH MOUNTED JUNCTION BOX FOR DOORBELL (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS. FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT FLUSH MOUNTED JUNCTION BOX FOR DOORBELL VISUAL/AUDIBLE DEVICE (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS. NOTE: REFER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS NOT SHOWN ABOVE

ENLARGED UNIT PLAN SYMBOLS LIST

PROVIDE GFI RECEPTACLE FOR GARBAGE DISPOSAL AND DISHWASHER UNDER SINK IN ACCESSIBLE LOCATION. PROVIDE SWITCH UNDER COUNTER FOR GARBAGE DISPOSAL AND 2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION. SPECIAL RECEPTACLE. EXACT TYPE, SIZE, ETC. SHALL BE COORDINATED WITH EQUIPMENT MANUFACTURER PRIOR TO ORDERING DEVICE. IN **ACCESSIBLE** UNITS, CONTRACTOR SHALL PROVIDE A REMOTE RANGE EXHAUST HOOD/LIGHT SWITCH, MOUNTED WITH AN ACCESSIBLE REACH RANGE. COORDINATE ALL RANGE HOOD POWER. COORDINATE EXACT LOCATION, REQUIREMENTS, ETC. WITH MANUFACTURER PRIOR TO ORDERING DEVICES AND ROUGH-IN. COORDINATE WITH ARCHITECTURAL PLANS FOR UNITS THAT ARE REQUIRED TO HAVE HEARING IMPAIRED DEVICES. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

engineering

RECEPTACLE-

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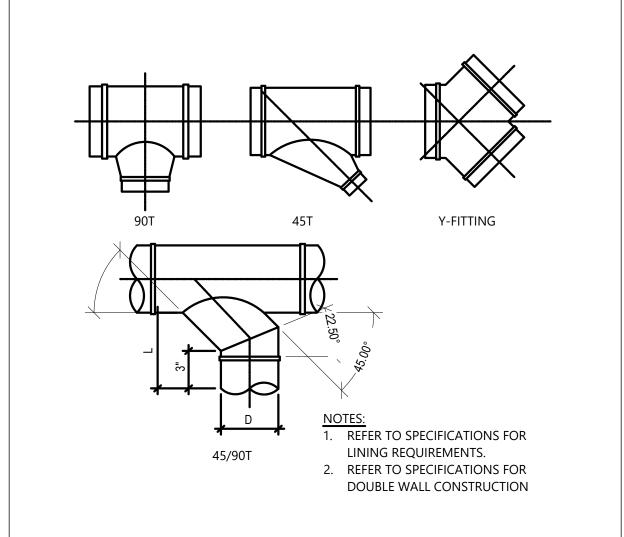


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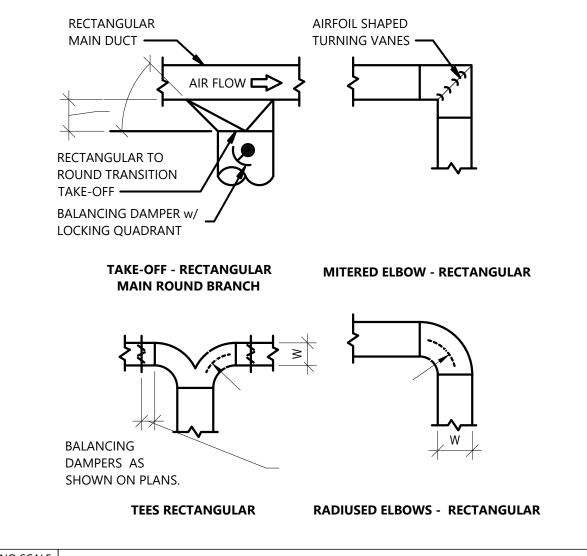
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ENLARGED UNIT PLAN -3 BEDROOM ACCESSIBLE

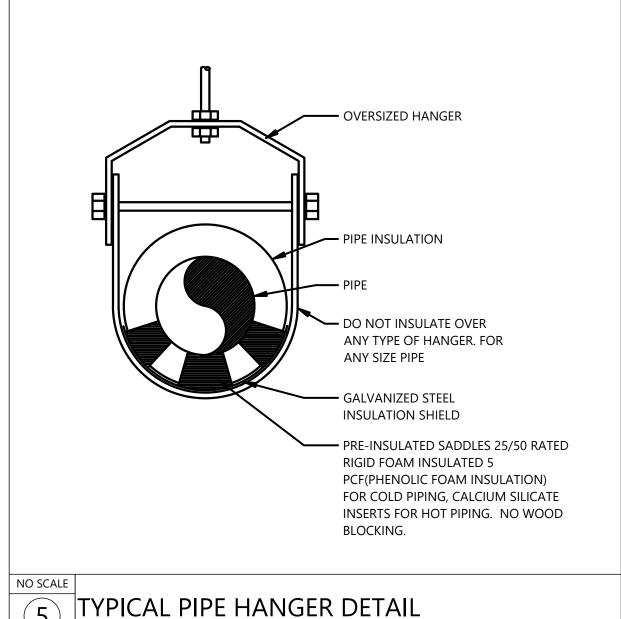
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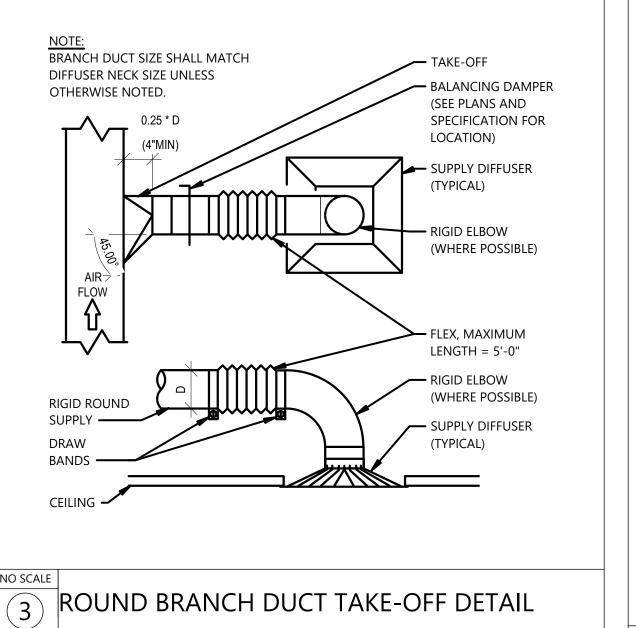


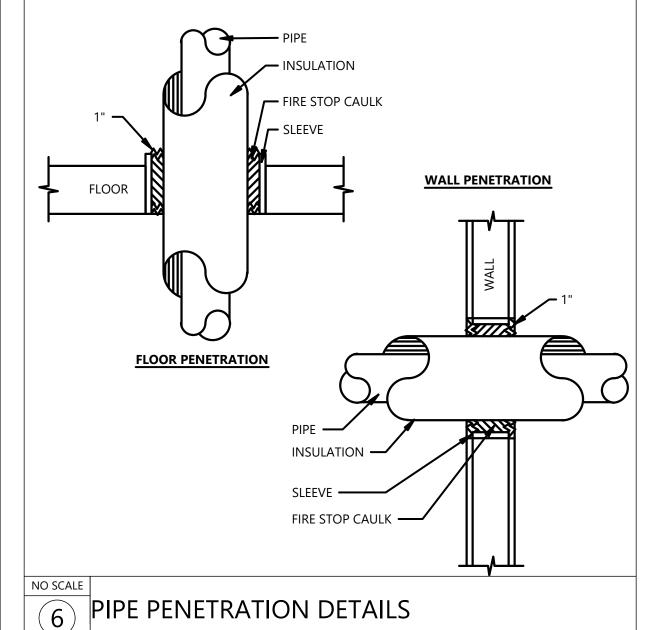
ROUND DUCT FITTINGS DETAIL

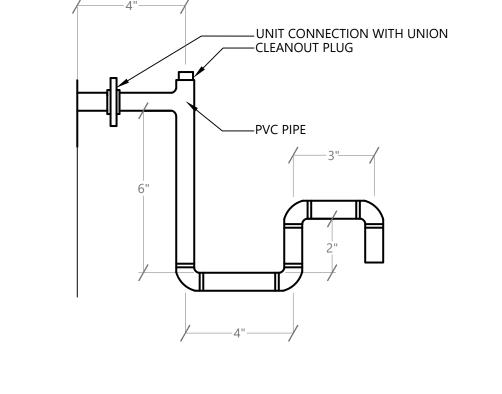


RECTANGULAR DUCT FITTINGS DETAIL

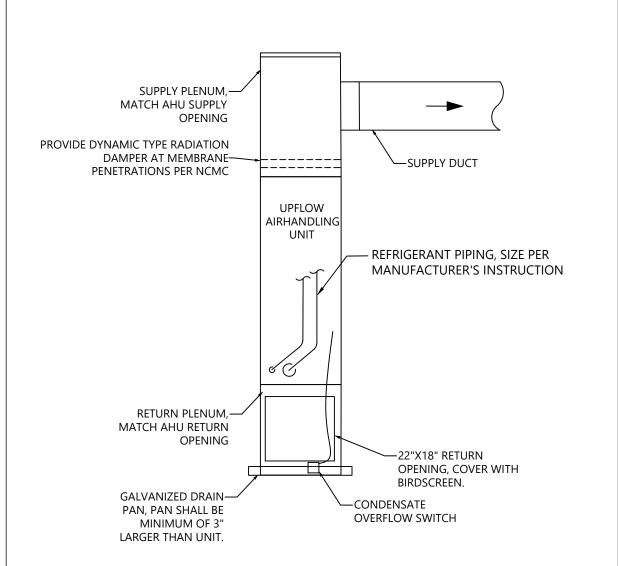








DRAIN CONNECTION DETAIL



APARTMENT AHU DETAIL

Building Code - 2018 North Carolina NCBC

Prescriptive	2018 NCECC			
Thermal Zone	3A			
winter dry bulb	18°F			
summer dry bulb	94°F			
Interior design conditions				
winter dry bulb	70°F			
summer dry bulb	75°F			
relative humidity	50%RH			
Building heating load	530.4 MBH			
Building cooling load	440.4 MBH			
Mechanical Space Conditioning System				
Unitary description of unit	1.5-TON x8, 2-TON x16, 2.5-TON x4 DX SPLITS			
heating efficiency (HSPF)	7.5, 7.5, 7.8			
cooling efficiency (SEER2)	14.5, 14.3, 15.2			
heat output of unit	18, 24, 30 MBH			
cooling output of unit	18, 24, 30 MBH			
Equipment schedules with motors (mechanical systems)	N/A			
motor horsepower	SEE EQUIPMENT SCHEDULES			
number of phases minimum efficiency	SEE EQUIPMENT SCHEDULES SEE EQUIPMENT SCHEDULES			
motor type	SEE EQUIPMENT SCHEDULES			
# of poles	SEE EQUIPMENT SCHEDULES			
·· 1	OLL LOCI MILITI OUTLDOLLO			

MECHANICAL GENERAL NOTES

- COMPLY WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS. 2. DUCTWORK IS PERMITTED TO BE ABOVE ELECTRICAL EQUIPMENT ONLY IF IT IS INSTALLED OUTSIDE OF THE DEDICATED ELECTRICAL SPACE DEFINED AS THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EOUPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER. DUCTWORK INSTALLED ABOVE ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH PROTECTION TO AVOID DAMAGE FROM CONDESATION, LEAKS, BREAKS, ETC. REFER TO THE NEC FOR EXACT DEFINITION OF DEDICATED ELECTRICAL SPACE.
- 3. ALL ISOLATION VALVES, EQUIPMENT, CONTROLS, ETC. REQUIRING ACCESS/SERVICE SHALL BE INSTALLED WITHIN 18" OF THE CEILING FOR EASY ACCESSIBILITY. LOCATIONS SHALL BE INDICATED ON THE CEILING GRID PER THE SPECIFICATIONS.
- 4. ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT. 5. COORDINATE EXACT THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLATION. STANDARD
- DEFAULT: INSTALL THE TOP OF ALL THERMOSTATS, SENSORS, AND SWITCHES AT 4'-0" ABOVE FINISHED FLOOR. DEVICES ON A PERIMETER WALL SHALL BE MOUNTED ON A FOAM-FILLED ELECTRICAL BOX, WITH ALL GAPS BETWEEN BOX AND WALL SEALED TO PREVENT INFILTRATION.
- 6. PROVIDE ALL MISCELLANEOUS STEEL AND ITEMS REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPE, SHEET METAL AND EQUIPMENT. COORDINATE FLOOR, WALL & ROOF PENETRATIONS ETC. WITH ARCHITECTURAL/STRUCTURAL
- TRADES. FIRESTOP SHALL BE PROVIDED IN HOLES AND PENETRATIONS IN RATED ASSEMBLIES. ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED. 8. EQUIPMENT OPERATED DURING CONSTRUCTION SHALL USE FILTERED MEDIA TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING COILS, DUCTWORK SYSTEMS, AIR TERMINALS ETC. AT COMPLETION OF CONSTRUCTION, MECHANICAL CONTRACTOR SHALL CLEAN ALL SYSTEMS WITH ALL CONTROL DEVICES WIDE OPEN AND REMOVE ANY REMAINING DEBRIS PRIOR TO TEST AND BALANCING. MECHANICAL CONTRACTOR SHALL REPLACE ALL FILTRATION WITH NEW FILTERS AT
- HANDING OVER TO OWNER. 9. ALL MECHANICAL EQUIPMENT SHALL BE U.L. LISTED AND LABELED AS A COMPLETE PACKAGE, NOT THROUGH INDIVIDUAL COMPONENTS OR PARTS. PROVIDE REQUIRED 3RD PARTY FIELD UL LISTING

COMPLETION OF CONSTRUCTION. ANY DUCTWORK, AIR TERMINALS, AND/OR OTHER EQUIPMENT

UPSTREAM OF FILTRATION SHALL BE CLEANED THOROUGHLY OF CONSTRUCTION DEBRIS BEFORE

- SERVICES AS REQUIRED TO COMPLY. 10. UPON PROJECT COMPLETION, THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER INSTALLATION INFORMATION INCLUDING RECORD SUBMITTALS (WITH ANY SUBMITTAL REVIEW COMMENTS ADDRESSED) AND O&M MANUALS FOR EACH PIECE OF EQUIPMENT INCLUDING ALL SELECTED OPTIONS, THE NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY, FULL CONTROL SYSTEM O&M AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, SCHEMATICS, FULL SEQUENCE OF OPERATION, AND PROGRAMMED SETPOINTS. IN ADDITION, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A REGISTERED DESIGN PROFESSIONAL TO COMMISSION THE INSTALLED SYSTEM AND PROVIDE THE OWNER AND CODE REVIEWER A SEALED STATEMENT OF SYSTEM COMMISSIONING.
- 11. PROVIDE A ONE YEAR WARRANTY FOR ALL WORK PERFORMED BEGINNING ON THE DAY THE SYSTEM IS COMPLETELY OPERATIONAL AND ACCEPTABLE BY THE OWNER.

SHEET METAL GENERAL NOTES

- 1. STANDARD DUCTWORK SHALL BE GALVANIZED OR ALUMINUM SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. ALL CONCEALED SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2" THICK DUCT WRAP WITH VAPOR BARRIER. INSULATION (INCLUDING FLEXIBLE DUCT INSULATION) SHALL HAVE A MINIMUM INSTALLED
- R-VALUE OF 6.0. 2. ALL DUCTWORK SHALL BE SEALED PER THE REQUIREMENTS OF THE STATE MECHANICAL CODE. SEAL LOW PRESSURE SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST DUCTWORK FOR POSITIVE/NEGATIVE 2" PRESSURE CLASS, SMACNA SEAL CLASS A, SMACNA LEAKAGE CLASS 4.
- 3. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED ON DRAWINGS, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES. SIGNIFICANT ALTERATIONS TO DUCT ROUTING SHALL BE APPROVED BY ARCHITECT/ENGINEER BEFORE
- PROCEEDING IN ORDER TO ENSURE ADEQUATE STATIC PRESSURE IS AVAILABLE. 4. DUCTWORK LAYOUT HAS BEEN DESIGNED TO MINIMIZE SOUND TRANSMISSION. ALL FITTINGS SHALL BE PROVIDED AS INDICATED.
- 5. WATERTIGHT CONCRETE CURBS SHALL BE PROVIDED AROUND ELEVATED FLOOR SLAB
- 6. UNLESS OTHERWISE NOTED, ALL DUCTWORK ABOVE CEILING OR EXPOSED IS OVERHEAD AND AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION WHERE
- REQUIRED. DUCTWORK AND ASSOCIATED COMPONENTS SHALL CLEAR DOORS AND WINDOWS. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO MECHANICAL EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT
- THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE NOTED. 8. RADIUS ELBOWS SHALL HAVE CENTERLINE RADIUS OF CURVATURE 1.5 TIMES THE DUCT DIAMETER OR WIDTH IN THE PLANE OF TURN. WHERE SQUARE (MITERED) ELBOWS ARE SHOWN, INSTALL
- TURNING VANES. 9. DUCTWORK SIZES ARE INSIDE CLEAR DIMENSIONS. DUCTS CONNECTED TO EQUIPMENT SHALL
- EQUAL EQUIPMENT CONNECTION SIZE UNLESS NOTED OTHERWISE. 10. MAXIMUM LENGTH ON FLEXIBLE DUCT SHALL BE 5'-0", UNLESS OTHERWISE NOTED ON DETAILS OR
- 11. THE MECHANICAL CONTRACTOR SHALL BALANCE ALL MECHANICAL SYSTEMS TO THE PERFORMANCE SPECIFICATIONS INDICATED ON PLANS AND PROVIDE THE ENGINEER WITH THREE COPIES OF A COMPLETE TEST AND BALANCE REPORT. THE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TO PROJECT COMPLETION. THE TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. ANY ADDITIONAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S REQUEST) AFTER REVIEW OF THE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TESTING AND BALANCING CONTRACTOR TO CONFIRM FILTERS ARE CLEAN, AND FREE OF DEBRIS PRIOR TO BEGINNING WORK. THE MECHANICAL CONTRACTOR SHALL REPLACE ANY DIRTY FILTERS, AS NEEDED. TEST AND BALANCE REPORT TO BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR.

HVAC PIPING GENERAL NOTES

MECHANICAL LEGEND

- CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE (OR TYPE 'L' HARD DRAWN COPPER WHEN IN PLENUM) AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED. CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION. MINIMUM DRAIN SIZE SHALL BE 3/4". CONDENSATE LINE SHALL BE SLOPED AS REQUIRED BY CODE
- ALL REFRIGERANT PIPE SHALL BE NITROGENIZED ACR COPPER TUBE. SIZE, INSULATE, AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH AN OUTER ALUMINUM JACKET.
- PROVIDE UNIONS, FLANGES OR COUPLINGS AT CONNECTION TO ALL VALVES AND EQUIPMENT. DO NOT USE DIRECT WELDED OR THREADED CONNECTIONS TO VALVES, EQUIPMENT OR OTHER APPARATUS. PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
- MECHANICAL CONTRACTOR SHALL PROVIDE PRE-PRINTED COLOR-CODED PIPE LABELS WITH 1-1/2" HIGH LETTERING INDICATING SERVICE AND FLOW DIRECTION. ALL PIPING TO MATCH EXISTING FACILITIES STANDARD (IF APPLICABLE). OTHERWISE, PIPE LABELS SHALL MATCH THE FOLLOWING: REFRIGERANT PIPING: YELLOW BACKGROUND, BLACK LETTERING. NATURAL GAS PIPING: YELLOW BACKGROUND, BLACK LETTERING

<u>SYMBOL</u>	DESCRIPTION
\bigcirc	THERMOSTAT / TEMP SENSOR (4'-0" AFF TO TOP)
\boxtimes	SUPPLY GRILLE
	RETURN AIR GRILLE

EXHAUST AIR GRILLE CEILING RADIATION DAMPER MVD (MANUAL VOLUME DAMPER) DIFFUSER TAG YY"xZZ" AIRFLOW-(TYPICAL QUANTITY) XXX CFM-X AIR HANDLING UNIT

HEAT PUMP

EXHAUST FAN ELECTRIC CABINET UNIT HEATER

DRYER BOOSTER FAN

engineering 15822 Kelly Park Cir Huntersville, NC (704) 439-7038 NC Firm License No. P-2182

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> > SIGNATURE:

The Orchards at Naples Road, L 341 N Main Street Hendersonville, NC 28792



Luis Graef: President

PROJECT: aple partm

REVISIONS

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: RS CHECKED BY: JK

DWG DECRIPTION: MECHANICAL COVER SHEET

INDOOR UN	IT SPLIT SY	STEM SCH	EDULE											
INDOOR UNIT DATA											ELECTRICAL DATA			
MARK	NOTES					SUPPLY AIR FAN				ELECTRIC HEATER		MCA	МОСР	WEIGHT
IVIAKK	NOTES	MFR	MODEL NO.	NOM. CAP.	SA	OA	ESP	FLA	НР	(I/\A/\	VOLTAGE/PH	IVICA	WOCP	
				(MBH)	(CFM)	(CFM)	(IN. W.C.)	FLA	ПР	(KW)		(A)	(A)	(LBS)
<u>AHU-1</u>	1-7	GOODMAN	AWST18	18	600	-	0.2	2.6	1/3	3	230/1	18.9	20	84
<u>AHU-2</u>	1-7	GOODMAN	AWST24	24	800	-	0.3	2.6	1/3	5	230/1	28.3	30	84
AHU-3	1-7	GOODMAN	ΔWST30	30	1000	_	0.3	3.8	1/2	5	230/1	29.8	30	109

NOTES:

1 **FACTORY DISCONNECT.**

2 **PROVIDE 7-DAY PROGRAMMABLE CONTROLS W/ STANDARD WALL THERMOSTAT.**

MERV-8 PRIMARY FILTERS - THROW-AWAY TYPE.

REFRIGERANT LINESET - SIZE, INSULATE, & ROUTE PIPING PER MANUFACTURER'S INSTRUCTIONS. PENETRATE THRU WALL SEALED WEATHERTIGHT.

5 **SECONDARY CONDENSATE OVERFLOW DRAIN PAN** WITH **UL 508 WATER LEVEL DETECTION DEVICE** (EC TO PROVIDE SEPARATE CIRCUIT) TO SHUTOFF EQUIPMENT UPON ACTIVATION.

PROVIDE WALL MOUNT BRACKET.

PROVIDE FILTER RACK.

OUTDOOR UNIT SPLIT SYSTEM SCHEDULE												
	OUTDOOR UNIT DATA											
MARK	NOTES		REFRIG. COOLING PERFORMANCE REFRIG. HEATING PERFORMANCE		ELECTRICAL DATA			WEIGHT				
IVIANN	NOTES	MFR	MODEL NO.	TYPE	NOM. CAP.	SEER2	NOM. CAP	HSPF2	VOLTAGE/PH	MCA	МОСР	
				ITPE	(MBH)	JEER2	(MBH)	ПЭРГ2	VOLIAGE/PH	IVICA	IVIOCP	(LBS)
<u>HP-1</u>	1-3	GOODMAN	GLZS4MA18	R32	18	14.5	18	7.5	230/1	11.4	15	175
<u>HP-2</u>	1-3	GOODMAN	GLZS4MA24	R32	24	14.3	24	7.5	230/1	13.8	20	175
<u>HP-3</u>	1-3	GOODMAN	GLZS4MA30	R32	30	15.2	30	7.8	230/1	17	25	189

NOTES:

PROVIDE 4" CONCRETE HOUSEKEEPING PAD.

EC TO PROVIDE ELECTRICAL DISCONNECT.

3 **SCROLL COMPRESSOR.**

FAN SCH	HEDULE														
					FAN DATA			<u>TA</u>				ELECTRICAL DATA			
MARK	NOTES	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	TYPE	AIRFLOW	RPM	ESP	MOTOR DATA	VOLTS	PHASE	MCA	МОСР	WEIGHT
						ITPE	(CFM)	KPIVI	(IN. W.C.)	(HP)	VOLIS	PHASE	(A)	(A)	(LBS)
<u>EF-1</u>	1-5	BROAN	XB50	EXHAUST	APARTMENT BATHROOMS	CEILING MOUNT	50	_	0.1	5.1W	115	1	-	-	12.5
DBF-1	1, 2, 4-12	FANTECH	DEDPV705	DRYER EXHAUST	APARTMENT	INLINE	150	2600	0.2	78W	120	1	-	-	23

NOTES

1 FACTORY MOUNTED DISCONNECT.

2 GRAVITY OPERATED DAMPER.

3 PROVIDE RADIATION DAMPER.

4 EC TO PROVIDE WALL SWITCH.5 FAN SHALL RUN CONTINUOUSLY WHILE BUILDING IS OCCUPIED.

6 UL705 CERTIFIED.

7 EC TO PROVIDE OUTLET WITHIN 4' OF FAN.

8 PLUG TYPE DISCONNECT.

9 UL705 CERTIFIED.

10 PRESSURE SWITCH, THERMAL SHUTDOWN, LED WARNING PANEL.

11 LOCATE WARNING PANEL ABOVE DRYER IN VISIBLE LOCATION.

12 MC SHALL PROVIDE PERMANENT LABEL INDICATING TOTAL EQUIVALENT LENGTH .

ELECTRIC UNIT HEATER SCHEDULE										
						ELECTRICAL DATA				
MARK	NOTES	MANUFACTURER	MODEL NO.	MOUNTING	CAPACITY (KW)	VOLTS	PHASE	AMPS		
ECUH-1	1-5	QMARK	CWH1202DSF	WALL	2	240	1	8.3		

NOTES:

1 FACTORY MOUNTED DISCONNECT AND THERMOSTAT.

2 PROVIDE SUMMER TIME SWITCH.

3 PROVIDE SEMI-RECESSED MOUNTING FRAME.

4 MOUNT HEATER @ 24" A.F.F.
5 U.L. LISTED.

AIR TE	AIR TERMINAL SCHEDULE (GRILLES, REGISTERS AND DIFFUSERS)									
MARK	NOTES	MANUFACTURER	MODEL NO.	AIR TERMINAL TYPE	NECK SIZE	FACE SIZE	MATERIAL	MAX APD	MAX NC	
					Ø (IN.)	(CFM)		(IN. W.C.)		
<u>SG-1</u>	1-4		540	RESIDENTIAL SUPPLY GRILLE	SEE PLANS	12"x4"	STEEL			
SG-2	1-4	PRICE	540	RESIDENTIAL SUPPLY GRILLE	SEE PLANS	10"x4"	STEEL	0.10	25	
<u>TG-1</u>	1-3		530	RESIDENTIAL RETURN GRILLE	SEE PLANS	14"x8"	STEEL			

1 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)								
ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF					
PRIMARY BEDROOM	288	12	36					
LIVING/DINING ROOM	578	23	96					
TOTAL	866	35	132					

2 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)								
ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF					
PRIMARY BEDROOM	269	11	54					
BEDROOM #2	212	8	36					
LIVING/DINING ROOM	562	22	96					
TOTAL	1043	42	186					

3 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)								
ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF					
PRIMARY BEDROOM	222	9	36					
BEDROOM #2	169	7	36					
BEDROOM #3	169	7	36					
LIVING/DINING ROOM	639	26	96					
TOTAL	1199	48	204					



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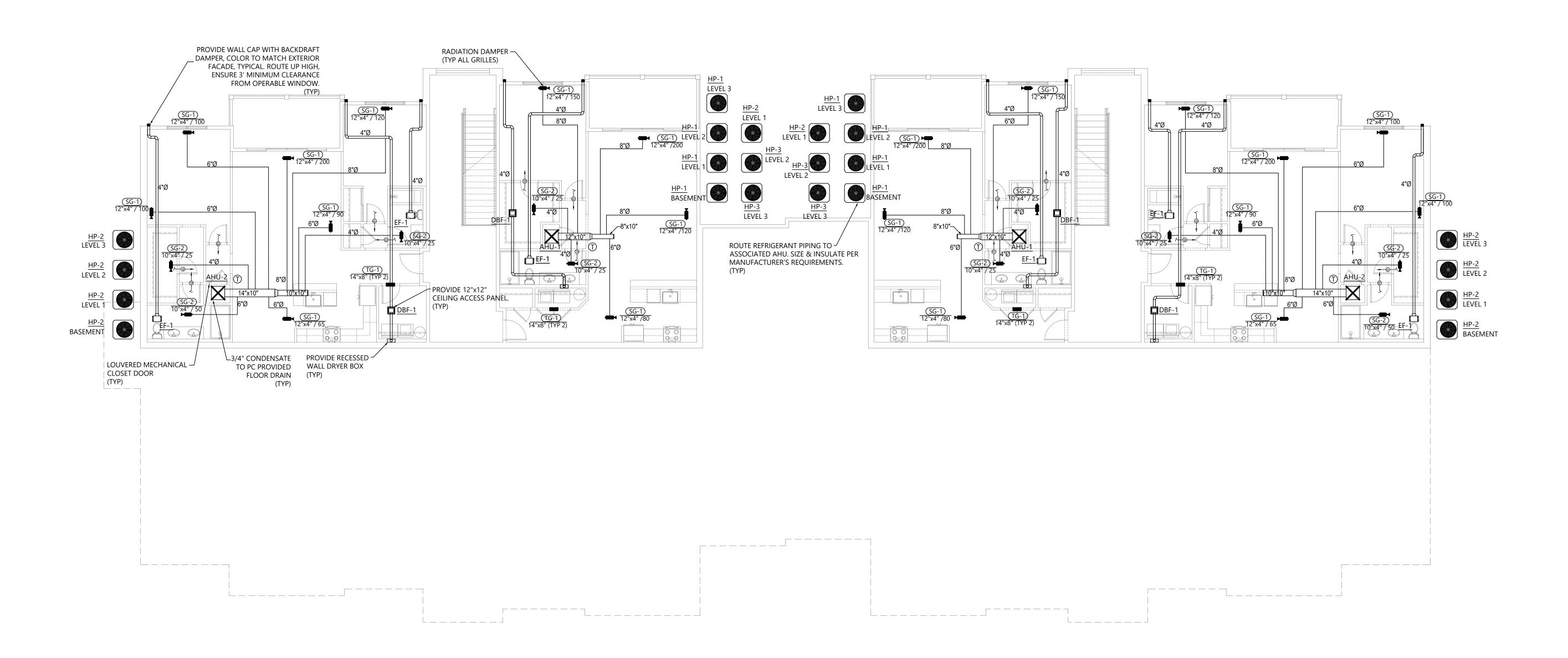
Apartment Complex and ordersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DECRIPTION:

MECHANICAL
SCHEDULES



MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - BASEMENT

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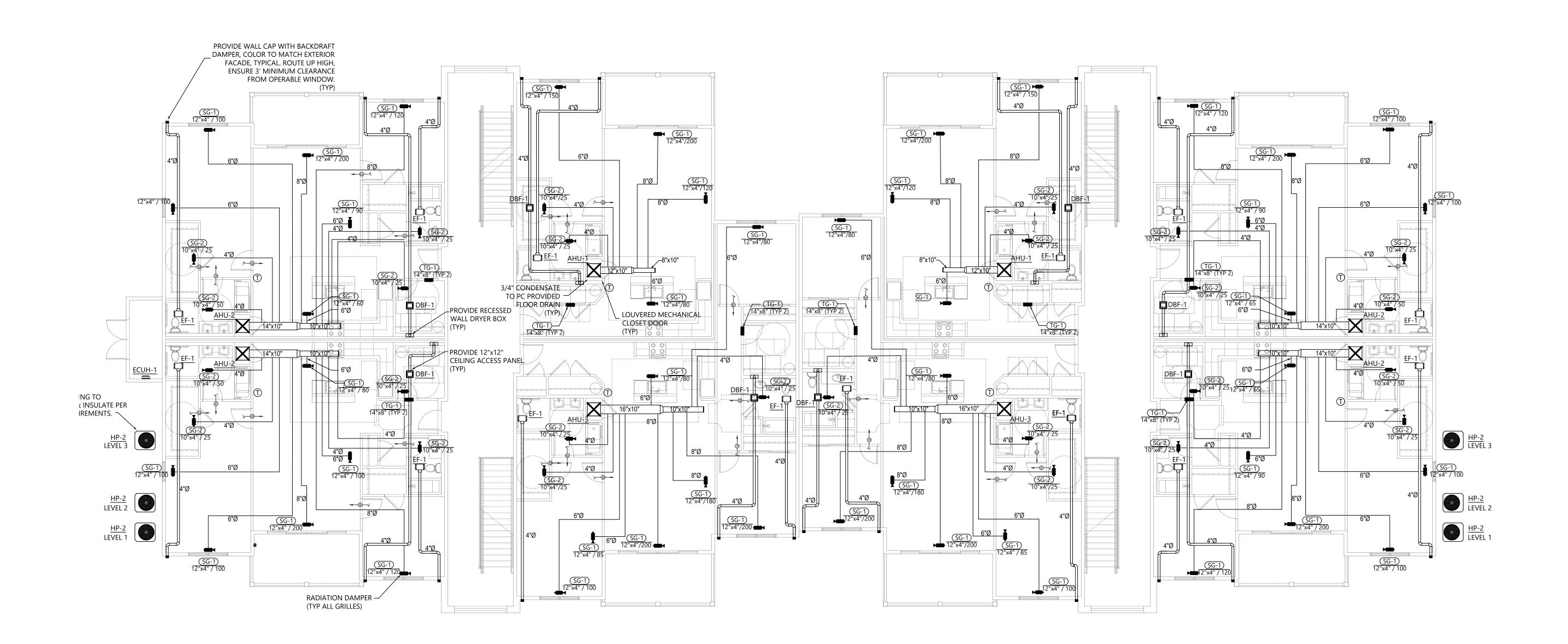
The Orchards at Naples Road Apartment Complex Hendersonville, North Carolina

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ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: RS CHECKED BY: JK

MECHANICAL PLAN BASEMENT -BUILDINGS 5 & 7

SHEET #:



MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - FIRST FLOOR

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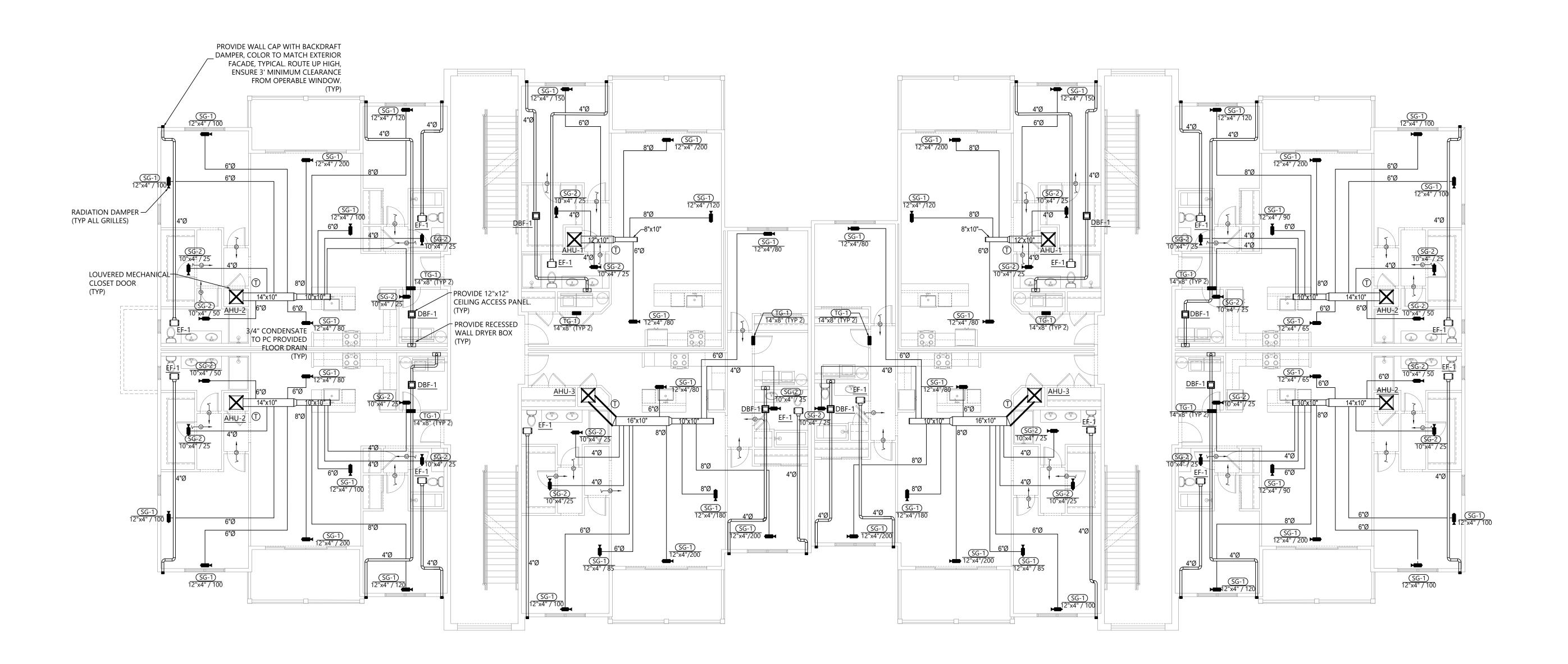
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ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: RS CHECKED BY: JK

MECHANICAL PLAN FIRST FLOOR -BUILDINGS 5 & 7



MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - SECOND FLOOR

1/8"=1'-0"

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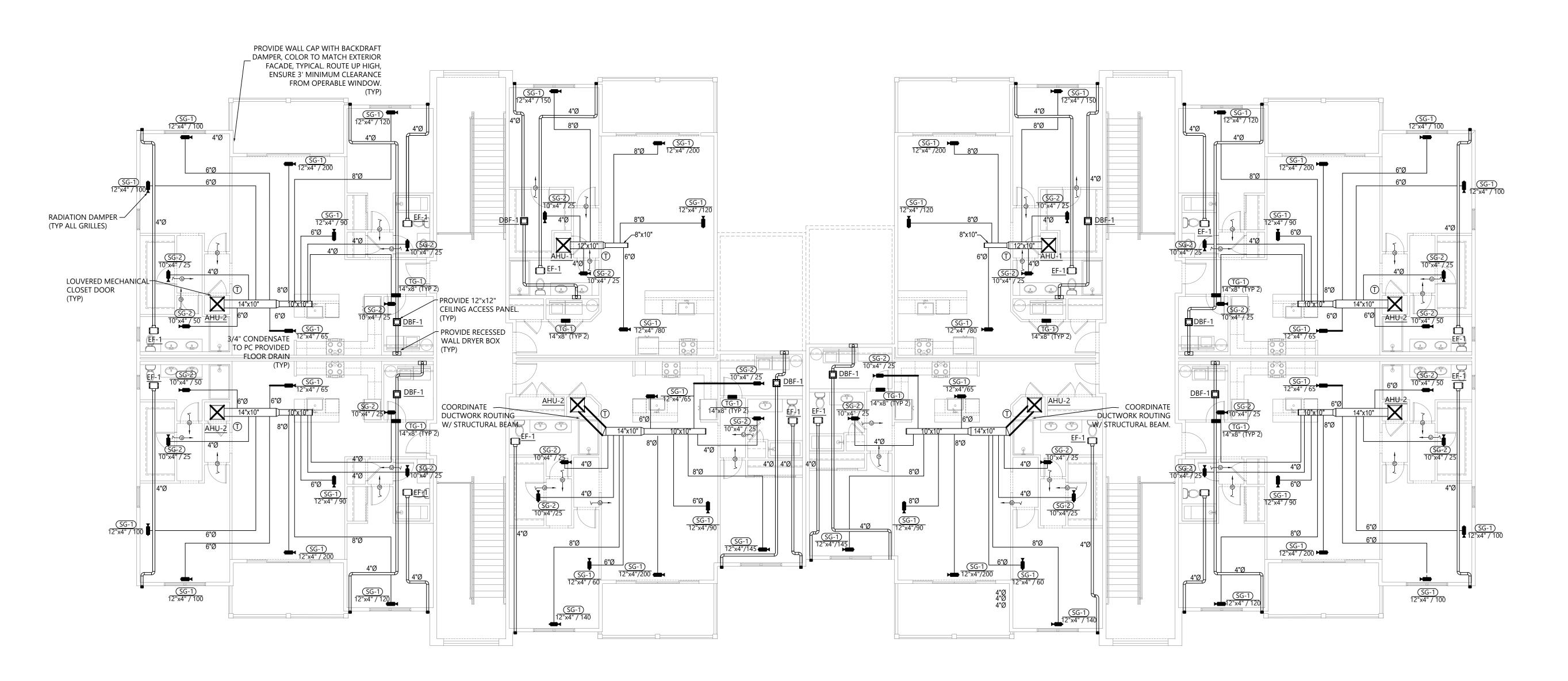
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The Orchards at Naples Road
Apartment Complex

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ISSUE DATE: 4/11/25
PROJECT #: 22105
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MECHANICAL PLAN SECOND FLOOR -BUILDINGS 5 & 7



MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - THIRD FLOOR

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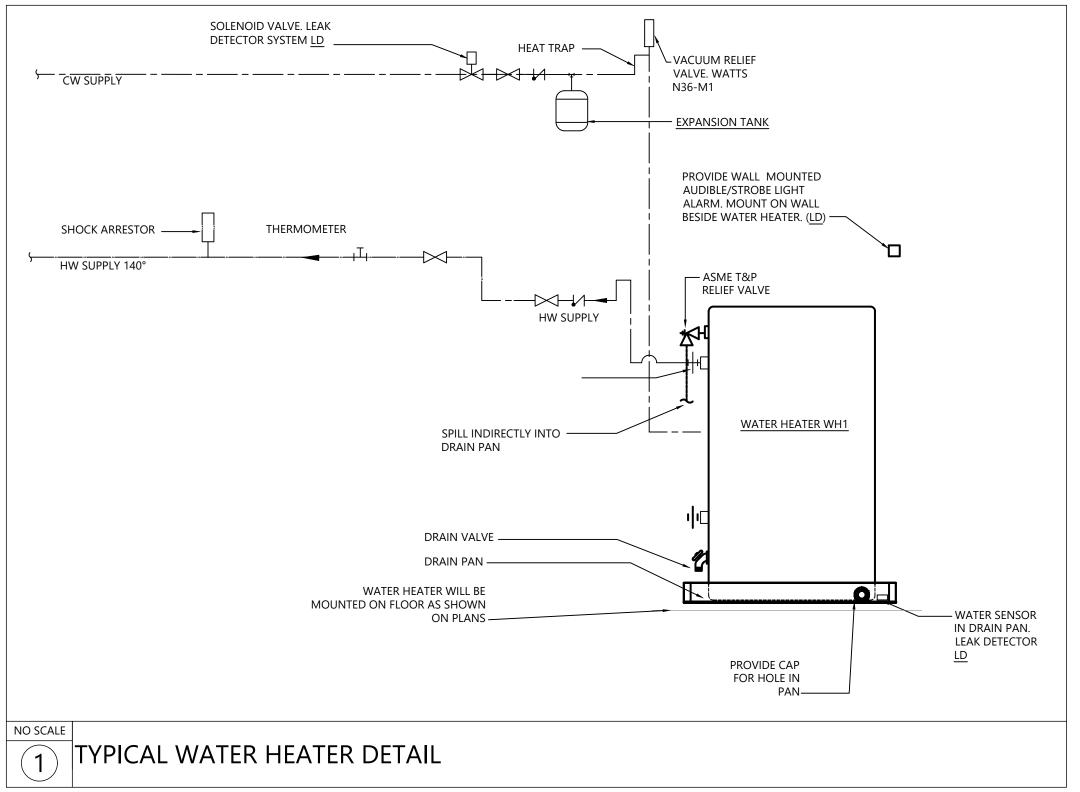
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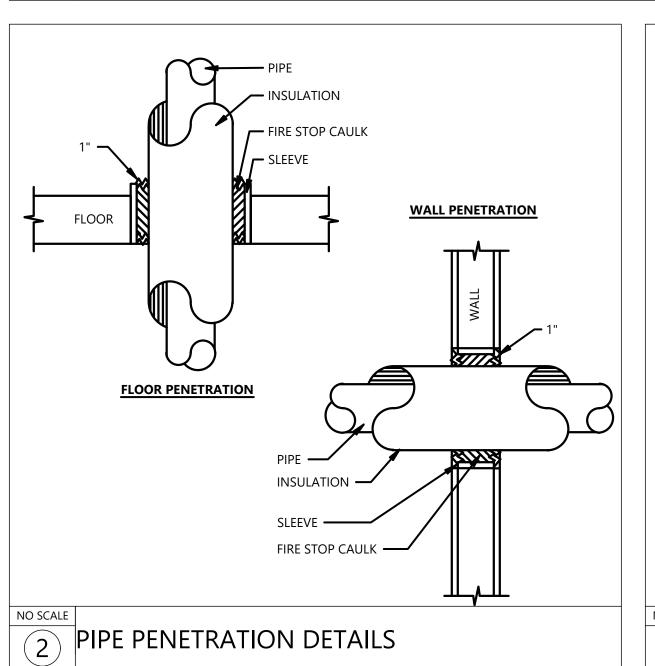
Orchards at Naples Road
Apartment Complex
Jendersonville, North Carolina

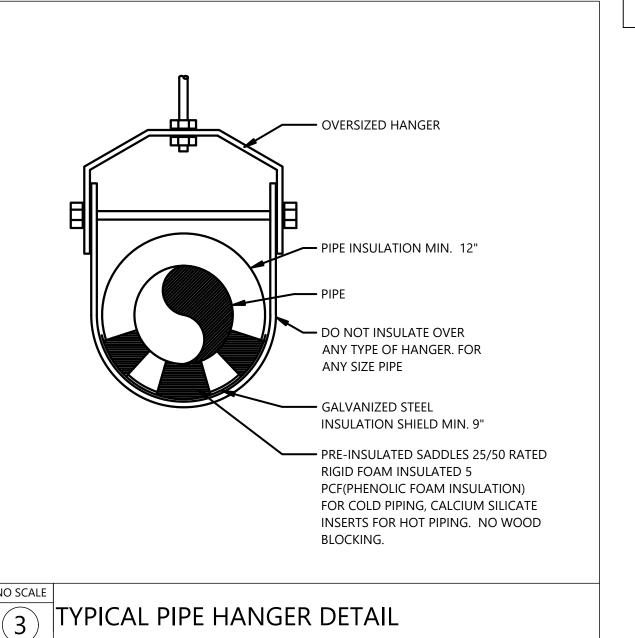
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DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
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MECHANICAL PLAN -THIRD FLOOR -BUILDINGS 5 & 7







PLUMBING FIXTURE SCHEDULE															
T.	\G	MANUFACTURER	MODEL	WATER CONSUMPTION	FINISH	ADA	MOUNTING	CONNECTION	OPERATION	ACCESSORIES			PIPE SIZ		COMMENTS
WATER	<u>WC-1</u> BOWL	AMERICAN STANDARD	COLONY 3/250D.104	1.28 GPF EPA "WATERSENSE"	WHITE VITREOUS CHINA	YES	FLOOR	TANK	MANUAL	SEAT: BEMIS LUSTRA K4650	CW 3/4"	- -	W 3"	V 2"	-
LAVATORY	LAV-1 BOWL	AMERICAN STANDARD	RELIANT DROP- IN/0476228	-	WHITE VITREOUS CHINA	YES	DROP IN	4" CENTERS	FAUCET	-	1/2" 1/2	1/2"	1-1/4"	1-1/4"	-
LAVA	<u>LAV-1</u> FAUCET	KOHLER	BELLERA/K- 27378-4N	.5 GPM EPA "WATERSENSE"	POLISHED CHROME	YES	DECK	4" CENTERS	MANUAL	ASSE 1070 THERMOSTATIC MIXING VALVE	1, 2	1/2	1 1/4	1 1/-	-
N SINK	<u>SK-1</u> BOWL	KOHLER	STACCATO/K- 3362-1	-	STAINLESS STEEL	YES	DROP IN	SINGLE HOLE	FAUCET	-	-	-	1-1/2"	1-1/2"	-
KITCHEN	<u>SK-1</u> FAUCET	KOHLER	CRUE/K-22972	1.5 GPM EPA "WATERSENSE"	POLISHED CHROME	YES	DECK	SINGLE HOLE	MANUAL	-	1/2"	1/2"	-	-	-
SHOWER	SH-1 FAUCET	KOHLER	PURIST/K-22170- G	1.75 GPM EPA "WATERSENSE"	POLISHED CHROME	-	WALL	-	MANUAL	PRESSURE BALANCED SHOWER VALVE	1/2"	1/2"	2"	1-1/2"	-
WALL CLEANOUT	<u>wco</u>	ZURN	Z1446	-	CAST IRON	-	WALL	-	MANUAL	-	-	-	4"	2"	-
FLOOR	<u>FD-1</u>	ZURN	Z415B	-	CAST IRON	-	FLOOR	-	-	-	-	-	4"	2"	-

ELECTRIC TANK WATER HEATER SCHEDULE									
Tag	Service	Location	HEATING INPUT (kW)	Volt/Ph	Mfg/Model #	Gallons	Notes		
EWH-1	LAUNDRY CLOSET	ON FLOOR	9.6kW	240V/1ph	BRADFORD WHITE/ENS50T-6	50	-		

PLUMBING LEGEND PLUMBING MATERIALS AND NOTES

4.51/				1011
			ADDITIONAL A	BBREVIATIONS
			PRESSURE GAUGE	
			THERMOMETER	
	<u>SA-#</u> SA	4	SHOCK ARRESTOR - SUFFIX INC	DICATES PDI SIZE
-	— ₁ Ţ, HI	В	HOSE BIBB/WALL HYDRANT	
	——— ◎ YC	0	YARD CLEAN OUT	
	——GI WC	0	WALL CLEAN OUT	
	——— ⊚ FC	0	FLOOR CLEAN OUT	
	- 1 C	V	CHECK VALVE	
	- ⋈		BALL VALVE	
			PIPE CONTINUES	
	 0 -		ELBOW UP	
			ELBOW DOWN	
	<u> </u>)	DRAIN	
	— — v	′	SANITARY VENT PIPING	
	W	/	SANITARY WASTE PIPING	
	HW	V R	HOT WATER RETURN PIPING	
	HV	N	HOT WATER PIPING	
	- — - — CV	V	COLD WATER PIPING	
NEW PIF	<u>PING</u> <u>Abe</u>	<u>3K.</u>	DESCRIPTION	

	H NESSONE GAOGE							
ADDITIONAL ABBREVIATIONS								
ABV	ABOVE	KW	KILOWATT					
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY					
AFG	ABOVE FINISHED GRADE	MBH	1,000 BTUH					
BAS	BUILDING AUTOMATION SYSTEM	MFG	MANUFACTURER					
BEL	BELOW	MH	MOUNTING HEIGHT					
BFF	BELOW FINISHED FLOOR	PH	PHASE					
BTUH	BRITISH THERMAL UNIT / HOUR	PSI	POUNDS PER SQUARE INCH					
CFH	CUBIC FEET PER HOUR	SF	SQUARE FEET					
CLG	CEILING	SFU	SUPPLY FIXTURE UNITS					
CONT	CONTINUATION	T&P	TEMPERATURE AND PRESSURE					
DFU	DRAINAGE FIXTURE UNIT (WASTE)	TYP	TYPICAL					
DN	DOWN	UR	URINAL					
(E)	EXISTING	VB	VACUUM BREAKER					
EX	EXISTING	VLV	VALVE					
FFE	FINISHED FLOOR ELEVATION	VTR	VENT THRU ROOF					
FIN	FINISH	WC	WATER COLUMN					
FL	FLOOR	EC	ELECTRICAL CONTRACTOR					
FR	FROM	GC	GENERAL CONTRACTOR					
FU	FIXTURE UNITS	MC	MECHANICAL CONTRACTOR					
GPC GPF	GALLONS PER CYCLE (METERING) GALLONS PER FLUSH	PC	PLUMBING CONTRACTOR					

GPM

GALLONS PER MINUTE

HORSE POWER
INVERT ELEVATION

DOMESTIC WATER PIPING:

- DOMESTIC WATER PIPING AND JOINTS <u>ABOVE GRADE</u>: PROVIDE TYPE 'L' HARD DRAWN SEAMLESS COPPER TUBING (ASTM B 88) AND CAST COPPER ALLOY FITTINGS (ASME B16.18). JOINTS 2" AND SMALLER SHALL BE LEAD FREE 95-5 TIN/SILVER SOLDER JOINTS (ASTM B 32).
- 2. STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- 3. INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE INSULATION SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTUH x SQ. FT. FOLLOW SCHEDULE BELOW:

 DOMESTIC HOT WATER & CIRCULATION
 1/2" - 1-1/2"
 1"

 DOMESTIC HOT WATER & CIRCULATION
 1-1/2" - 4"
 1-1/2"

 DOMESTIC COLD WATER
 1/2" - 1-1/4"
 1/2"

 DOMESTIC COLD WATER
 1-1/2" - 4"
 1"

- 4. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED. PROVIDE PVC JACKET FOR EXPOSED PIPING IN MECHANICAL ROOMS. INSULATION SHALL BE CONTINUOUS AT ALL HANGERS. PROVIDE GALVANIZED STEEL SHIELD BETWEEN PIPE HANGER AND INSULATION.
- 5. PROVIDE TWO-PIECE, BRONZE OR BRASS BODY, FULL PORT, 600 PSI WOG, BALL TYPE SHUT-OFF VALVES WITH BLOW-OUT PROOF STEMS AND ADJUSTABLE PACKING GLANDS. VALVES SHALL BE LEAD FREE PER NSF 61, ANNEX G REQUIREMENTS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.
- 6. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER
- PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.
- 3. DOMESTIC WATER SUPPLY PIPING SHALL BE TESTED AND PROVED WATERTIGHT UNDER A WATER PRESSURE OF NO LESS THAN THE WORKING PRESSURE OF THE SYSTEM, OR AN AIR TEST OF NO LESS THAN ONE-HUNDRED (100) PSI. THIS PRESSURE SHALL BE HELD FOR AT LEAST FIFTEEN (15) MINUTES. WATER USED IN TESTING SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY.

SANITARY WASTE / VENT PIPING:

- SANITARY WASTE <u>BELOW</u> GRADE: PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PVC PIPE IS NOT APPROVED.
- 2. SANITARY WASTE/VENT <u>ABOVE</u> GRADE: PROVIDE SERVICE WEIGHT CAST IRON NO-HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET AND STAINLESS STEEL CLAMP JOINTS (CISPI 310).
- 3. SLOPE SANITARY WASTE PIPING AT 1/4" PER FOOT MINIMUM FOR PIPING 2-1/2" AND SMALLER AND 1/8" PER FOOT MINIMUM FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE.
- 4. WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, REMOVABLE P-TRAPS, MATCHING STOPS AND ESCUTCHEONS FOR ALL LAVATORIES.
- 5. SANITARY WASTE AND VENT SYSTEMS SHALL BE TESTED AND PROVED WATER TIGHT UNDER A HEAD PRESSURE OF NO
- LESS THAN 10 FT. THIS PRESSURE SHALL BE HELD FOR A PERIOD OF NO LESS THAN 15 MINUTES.
- 6. INSULATE MECHANICAL ROOM FLOOR DRAIN BODIES, P-TRAP AND HORIZONTAL DRAIN PIPING ABOVE GRADE WITH 1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER AND JACKET.

PLUMBING GENERAL NOTES

JERAL RECHIREMENTS:

- PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA STATE PLUMBING CODE AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- 2. SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.
- 3. PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, FACILITIES CHARGES AND BOND PROPERTY ASSESSMENTS ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT.
- 4. WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL PLUMBING MATERIALS AND EQUIPMENT.
- 5. COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH-IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.
- 6. FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED
- WHERE DISCREPANCIES ARE FOUND IN THE DRAWINGS AND SPECIFICATIONS THE MORE STRINGENT SHALL APPLY. CONTACT ENGINEER FOR CLARIFICATION.
- 8. ALL PIPING SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
- 9. ALL VALVES, BACKFLOW PREVENTERS, BOOSTER PUMPS, ETC. SERVING THE DOMESTIC WATER SYSTEM SHALL MEET LEAD FREE STANDARDS PER ANSI/NSF 372 AND NSF 61, ANNEX G.
- 10. CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.
- 1. PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC.
- 12. PLUMBING PIPING AND SPECIALTIES SHALL BE LOCATED CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. PLUMBING PIPING IN EXPOSED AREAS SHALL BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PROVIDE ACCESS DOORS FOR CONCEALED SPECIALTIES.
- 13. DO <u>NOT</u> INSTALL PLUMBING PIPING IN AREAS SUBJECT TO FREEZING TEMPERATURES. INSTALL PLUMBING PIPING SHOWN IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
- 14. PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
- 15. ATTACH HANGERS TO STRUCTURE, HANGERS SHALL NOT ATTACH TO THE DECK.
- 16. PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY WALLS, GYPBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS.
- 17. CORE DRILL THROUGH MASONRY (CMU BLOCK) WALLS FOR ALL PIPE PENETRATIONS. WHEN DRILLING OPENINGS FOR INSULATED PIPES THE OPENING'S DIAMETER SHALL BE LARGE ENOUGH FOR PIPE INSULATION TO REMAIN CONTINUOUS PASSING THROUGH THE OPENING. SEAL WATER TIGHT. PROVIDE ESCUTCHEONS IN EXPOSED FINISHED AREAS.
- 18. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES, DOMESTIC WATER SYSTEM, SANITARY WASTE AND VENT SYSTEM, NATURAL GAS SYSTEM.

PLUMBING FIXTURES AND EQUIPMENT:

- PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.
- PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
- 3. NO PRIVATE LABELED MATERIALS WILL BE ACCEPTED AS EQUALS TO PRODUCTS SPECIFIED HEREIN.
- 4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS TO SPECIFIED PLUMBING FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; PROVIDING MAINTENANCE ACCESS CLEARANCE, PIPING, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC. AND ANY MODIFICATIONS TO ASSOCIATED MECHANICAL, ELECTRICAL OR PLUMBING SYSTEMS REQUIRED BY THE EQUIPMENTS INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.

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The Orchards at Naples Road, L
341 N Main Street



Hendersonville, NC 28792

PROPERTIES
PROJECT:

he Orchards at Naples Roa Apartment Complex Hendersonville, North Carolina

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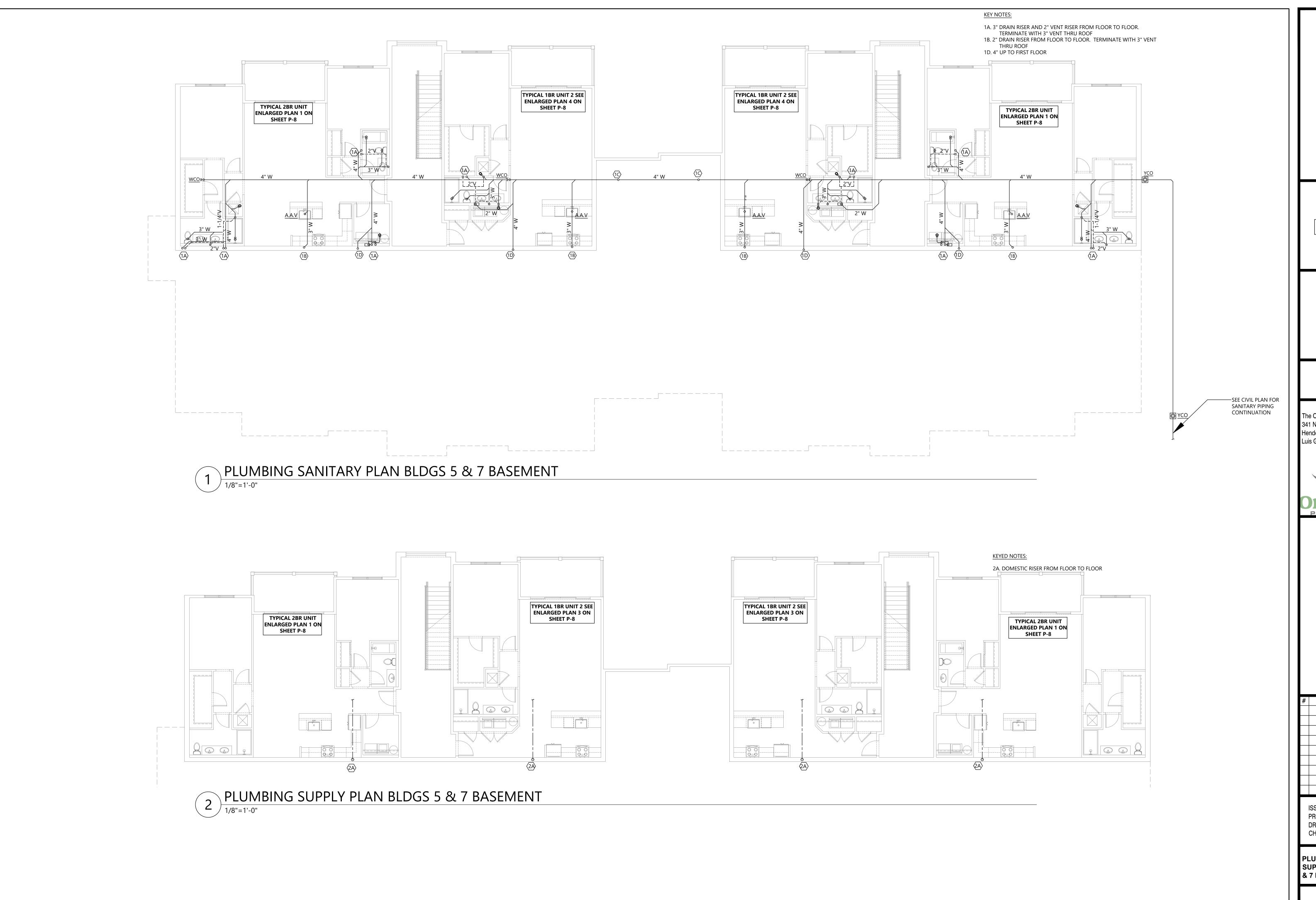
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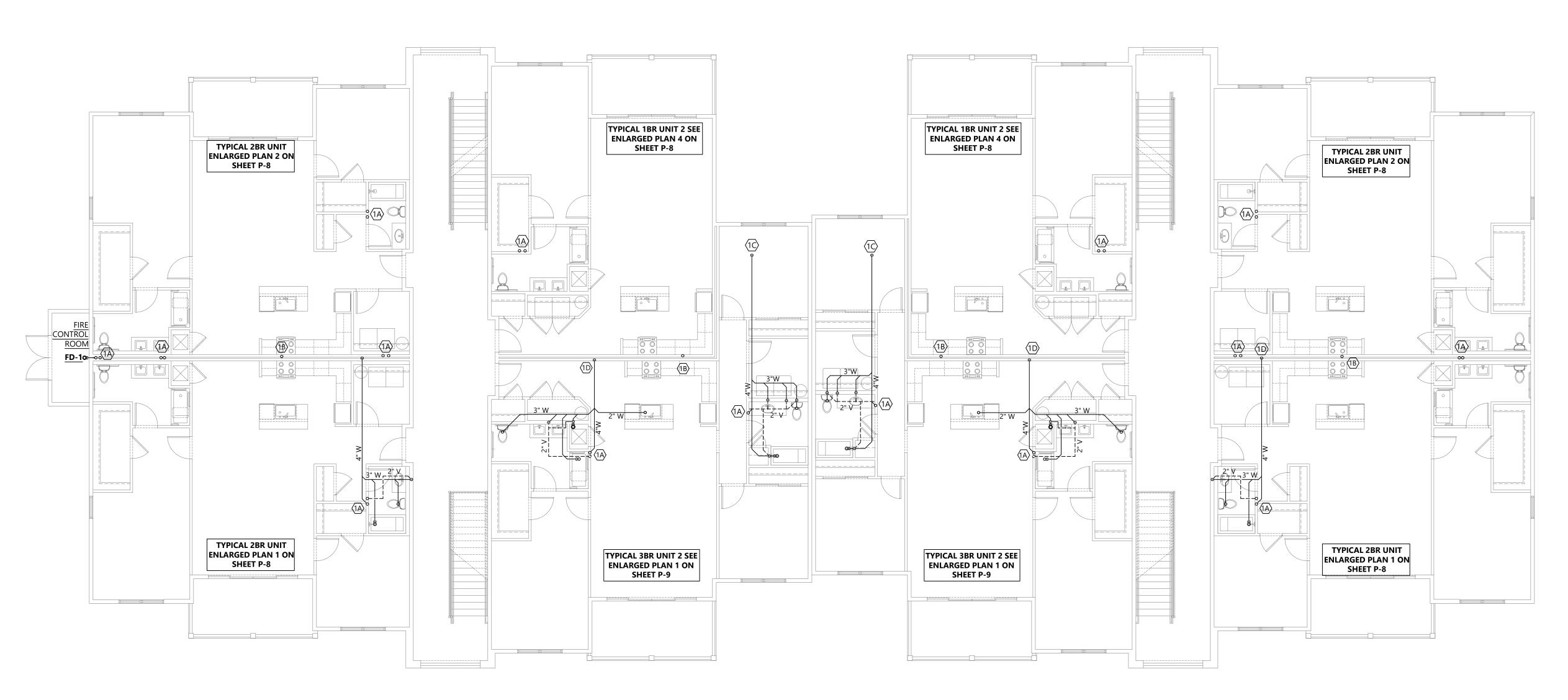
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PLUMBING SANITARY 8 SUPPLY PLAN BLDGS 5 & 7 BASEMENT



KEYED NOTES:

- 1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR.
- TERMINATE WITH 3" VENT THRU ROOF

 1B. 2" DRAIN RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT
- 1C. 4" DRAIN DOWN TO BASEMENT

PLUMBING SANITARY PLAN BLDGS 5 & 7 FIRST FLOOR

1/8"=1'-0"

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PLUMBING SANITARY PLAN BLDGS 5 & 7 FIRST FLOOR



PLUMBING SUPPLY PLAN BLDGS 5 & 7 FIRST FLOOR

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PLUMBING SUPPLY PLAN BLDGS 5 & 7 FIRST FLOOR

P-3

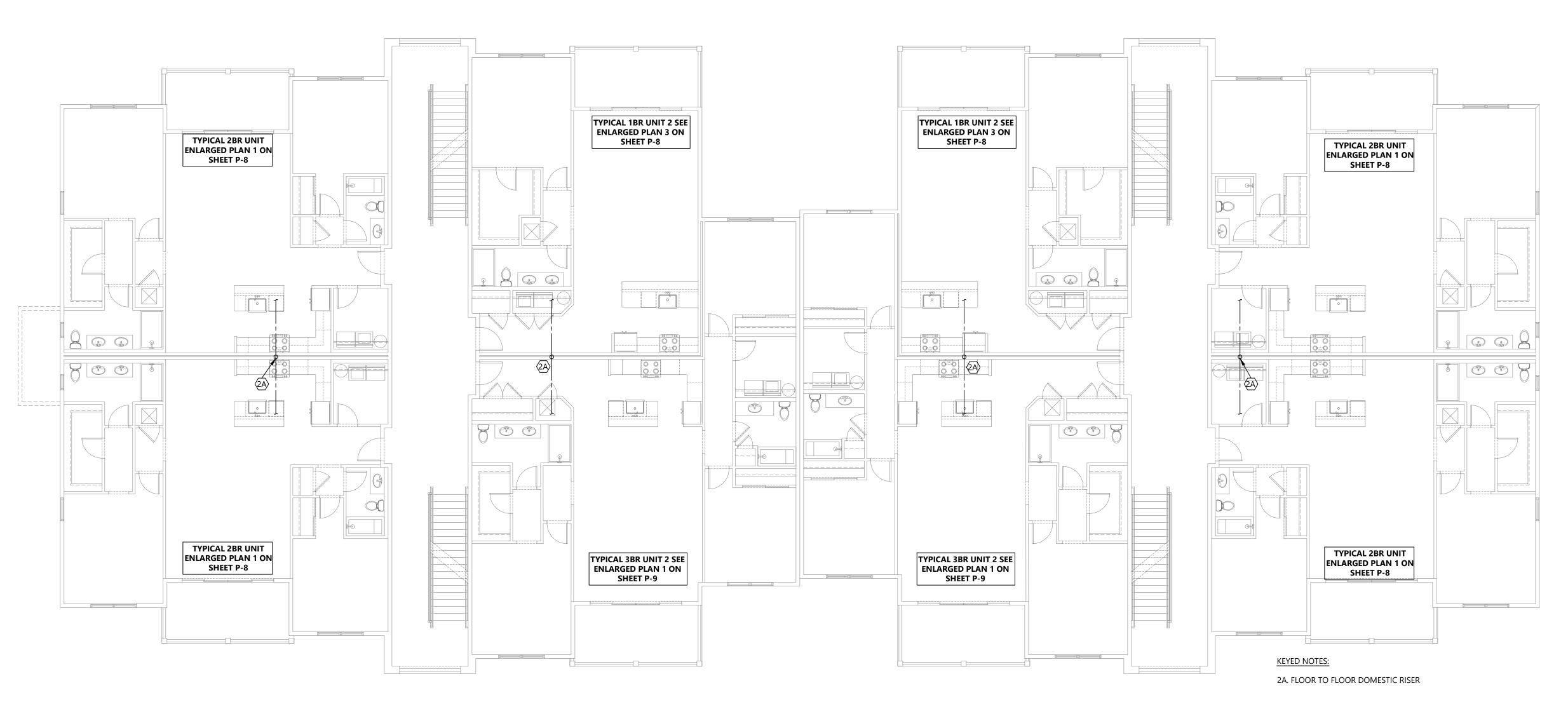
1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR.

1B. 2" DRAIN RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT

TERMINATE WITH 3" VENT THRU ROOF

THRU ROOF

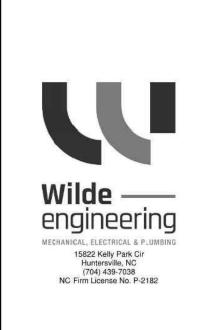
1C. 4" DRAIN DOWN TO BASEMENT



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PLUMBING SUPPLY PLAN BLDGS 5 & 7 SECOND FLOOR

1/8"=1'-0"



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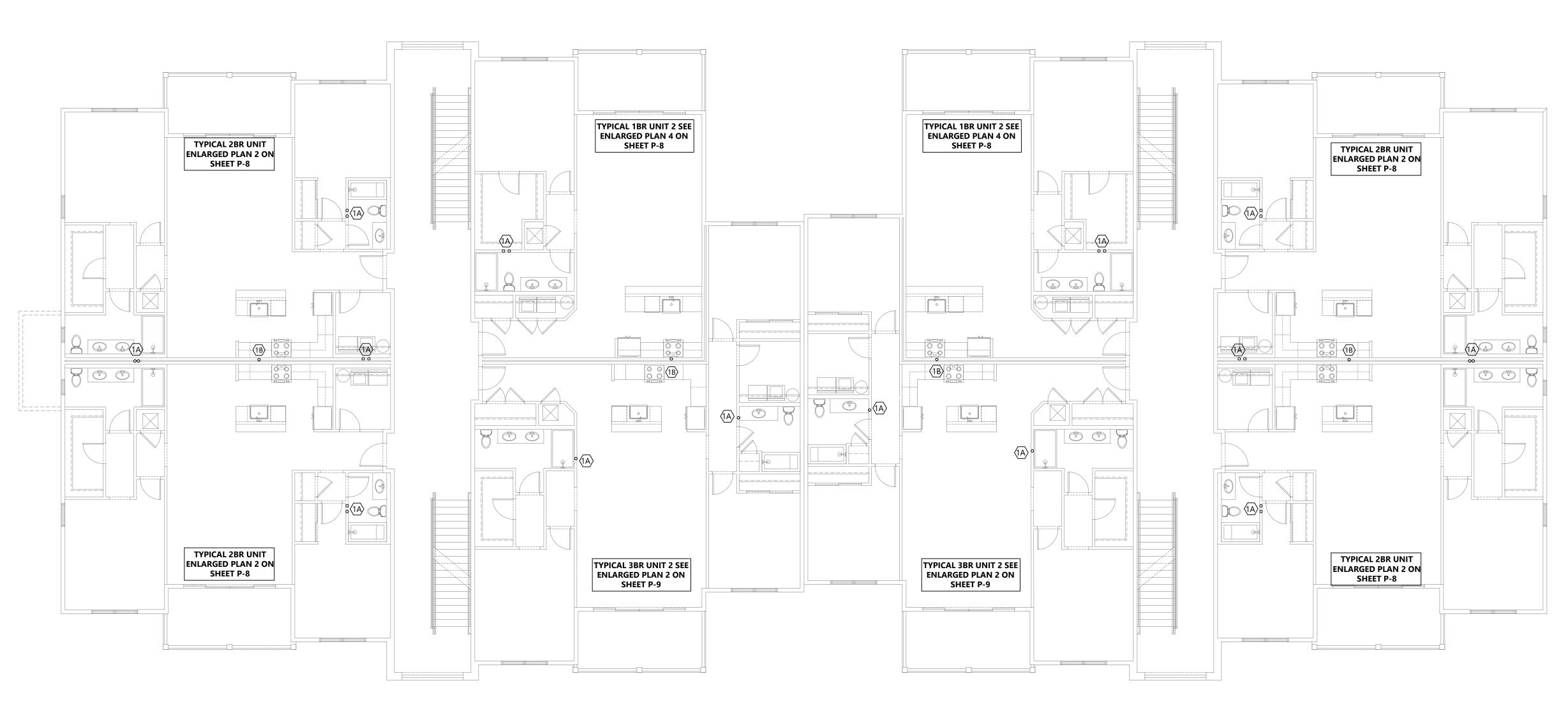
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PLUMBING SUPPLY PLAN BLDGS 5 & 7 SECOND FLOOR

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PLUMBING SUPPLY PLAN BLDGS 5 & 7 SECOND FLOOR

1/8"=1'-0"



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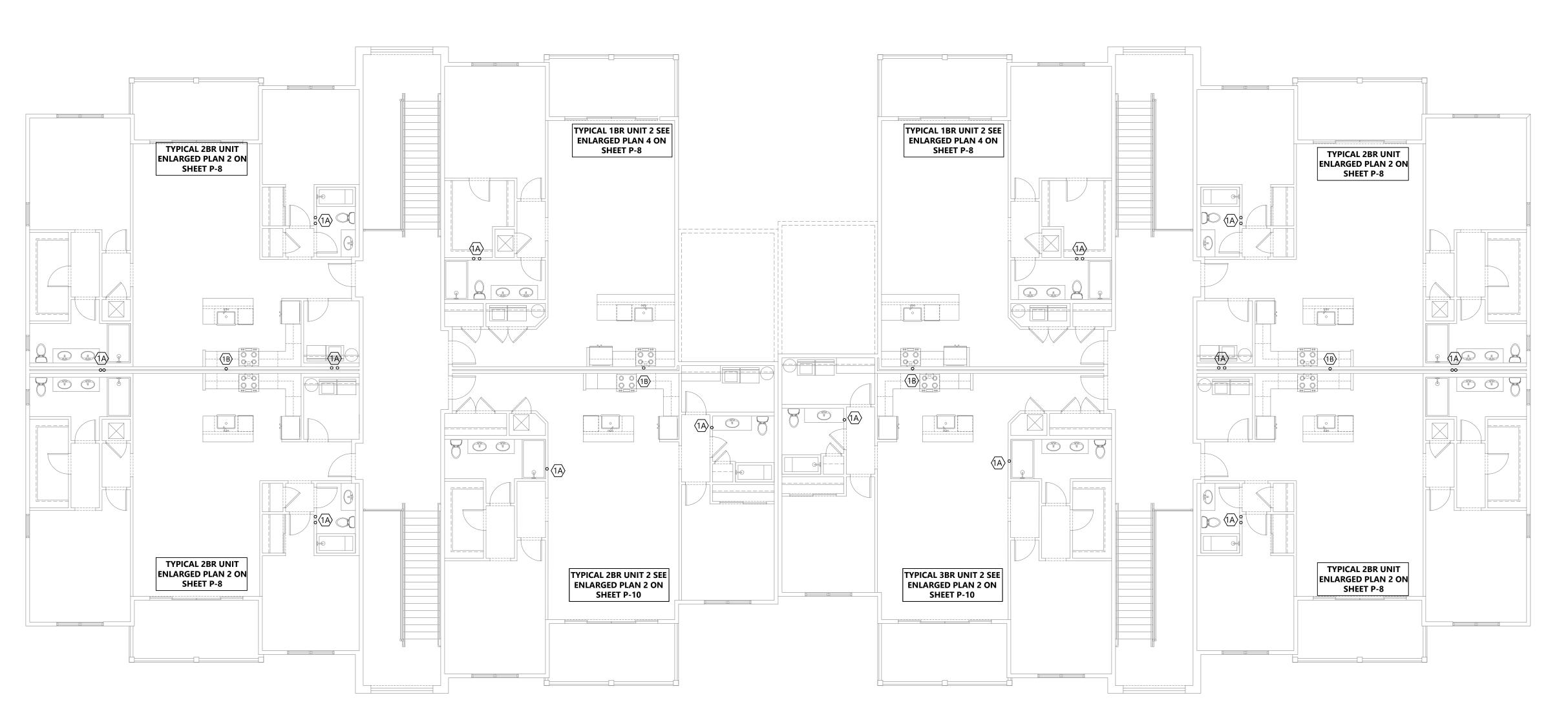
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PLUMBING SANITARY PLAN BLDGS 5 & 7 SECOND FLOOR

P-5



PLUMBING SANITARY PLAN BLDGS 5 & 7 THIRD FLOOR

1/8"=1'-0"

KEYED NOTES:

1A. 3" DRAIN RISER AND 2" VENT RISER FROM FLOOR TO FLOOR.
TERMINATE WITH 3" VENT THRU ROOF
1B. 2" DRAIN RISER FROM FLOOR TO FLOOR. TERMINATE WITH 3" VENT THRU ROOF

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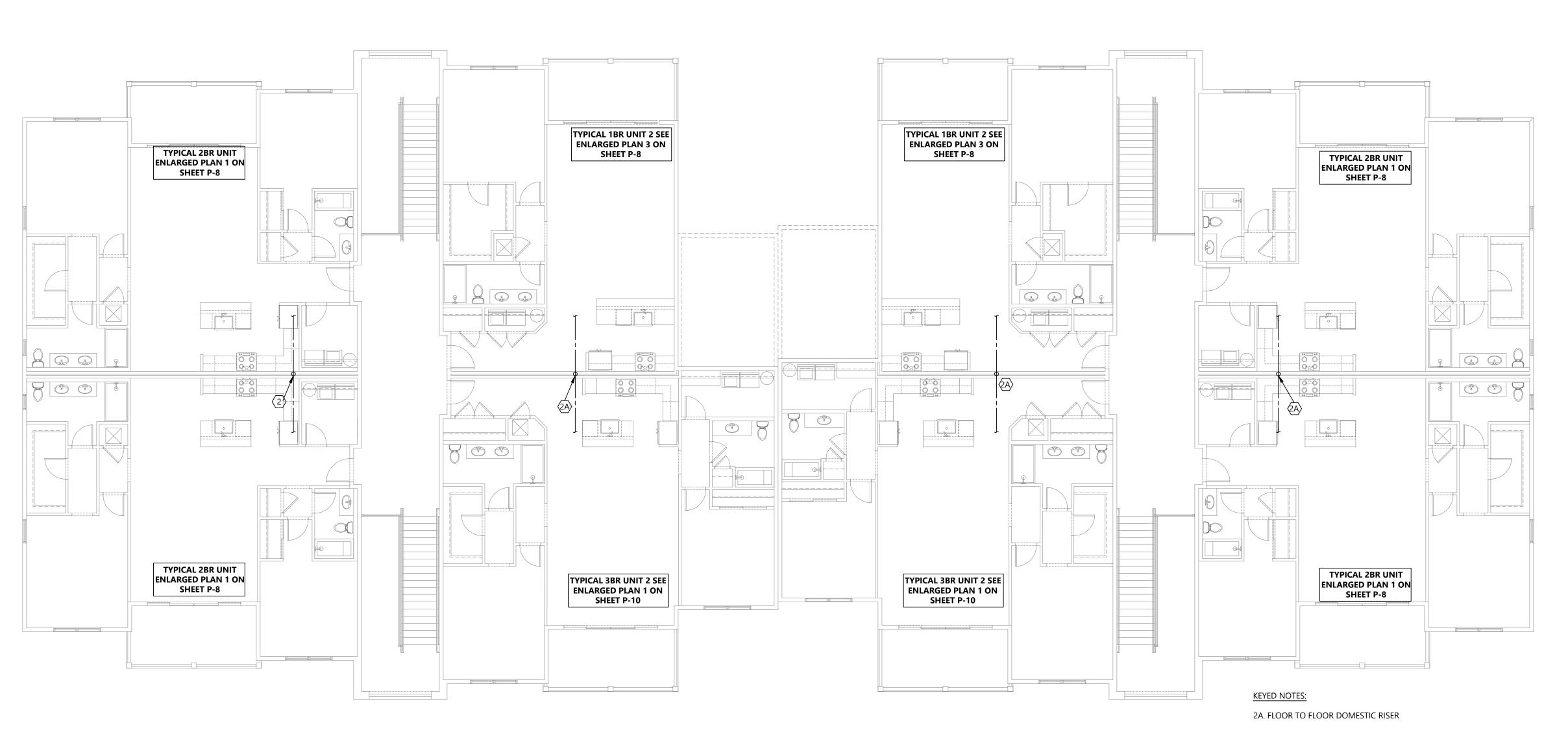
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PLUMBING SANITARY PLAN BLDGS 5 & 7 THIRD FLOOR

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P-6

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PLUMBING SUPPLY PLAN BLDGS 5 & 7 THIRD FLOOR

1/8"=1'-0"



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PLUMBING SUPPLY PLAN BLDGS 5 & 7 THIRD FLOOR

P-7

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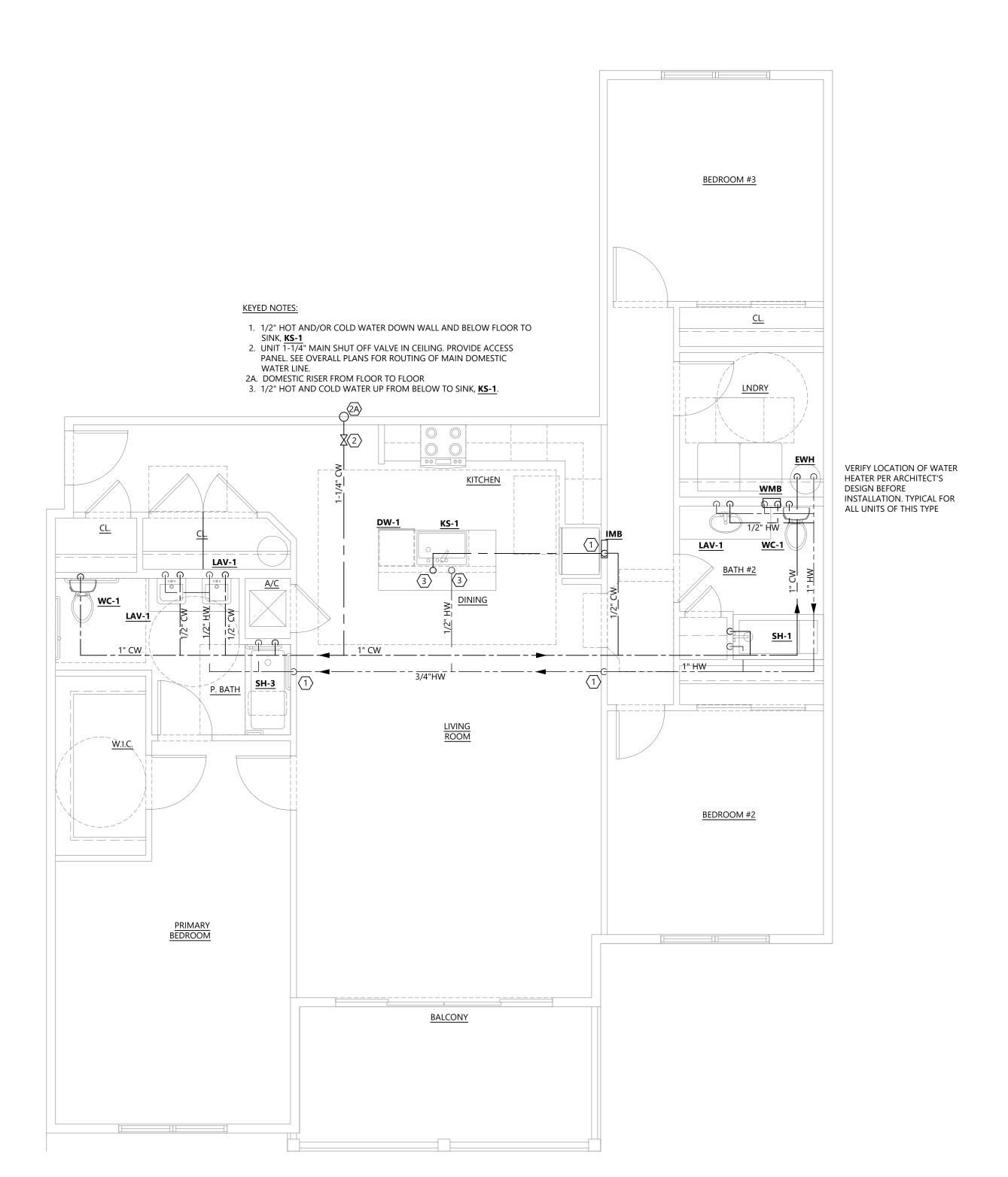
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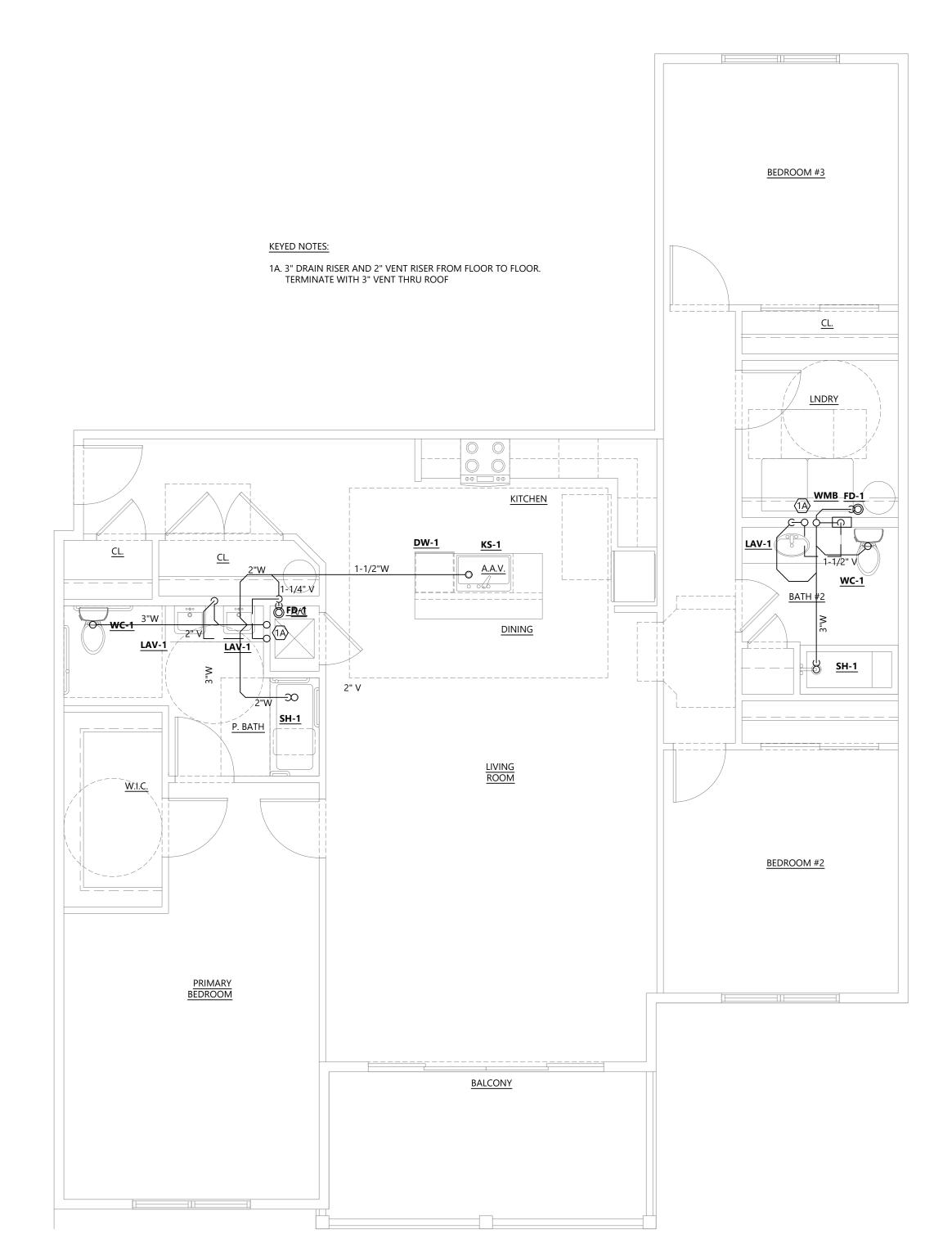
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DWG DECRIPTION: **ENLARGED UNIT PLANS**







2 TYPICAL 3BR PLUMBING SANITARY PLAN

1/4"=1'-0"

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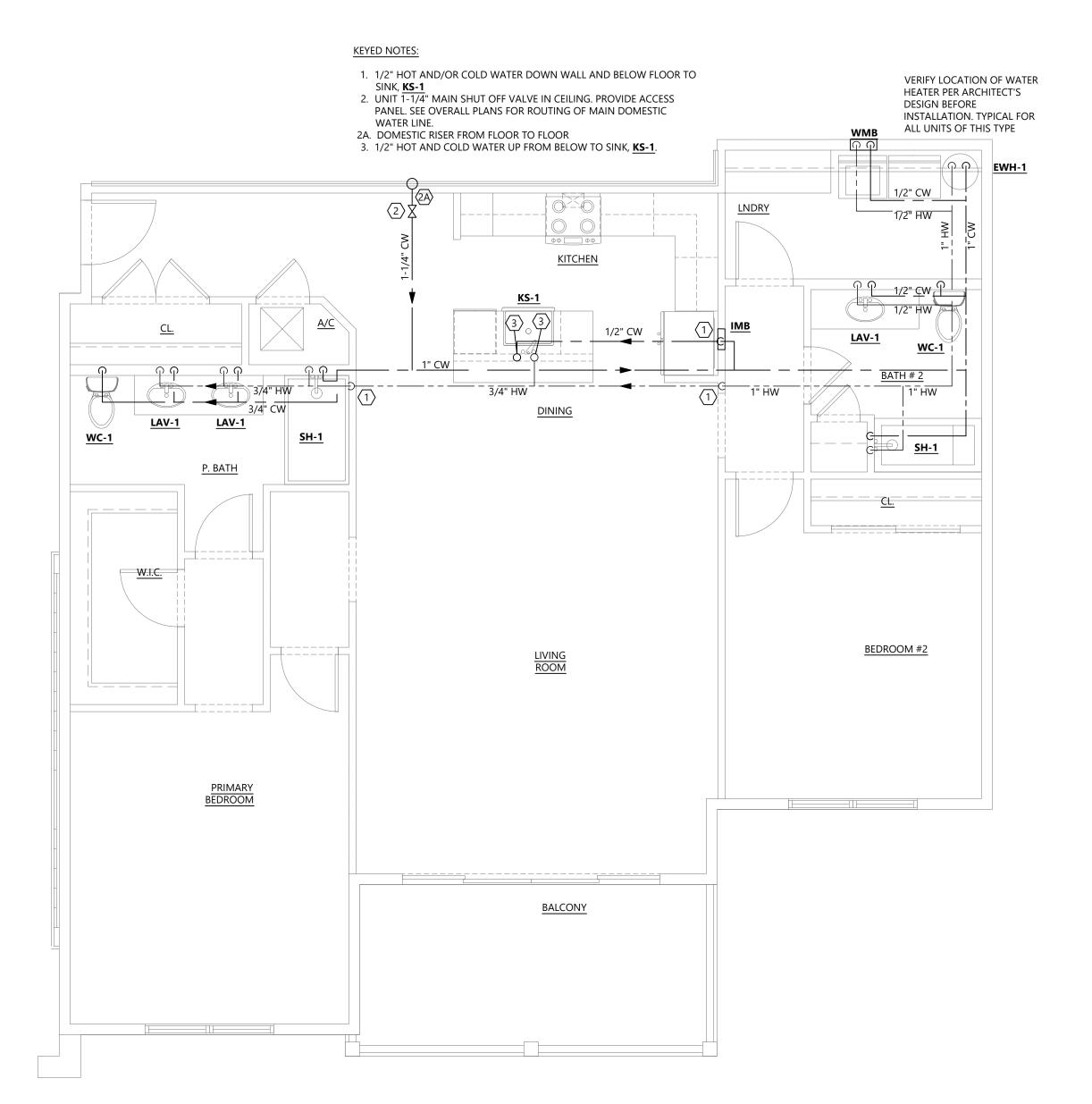
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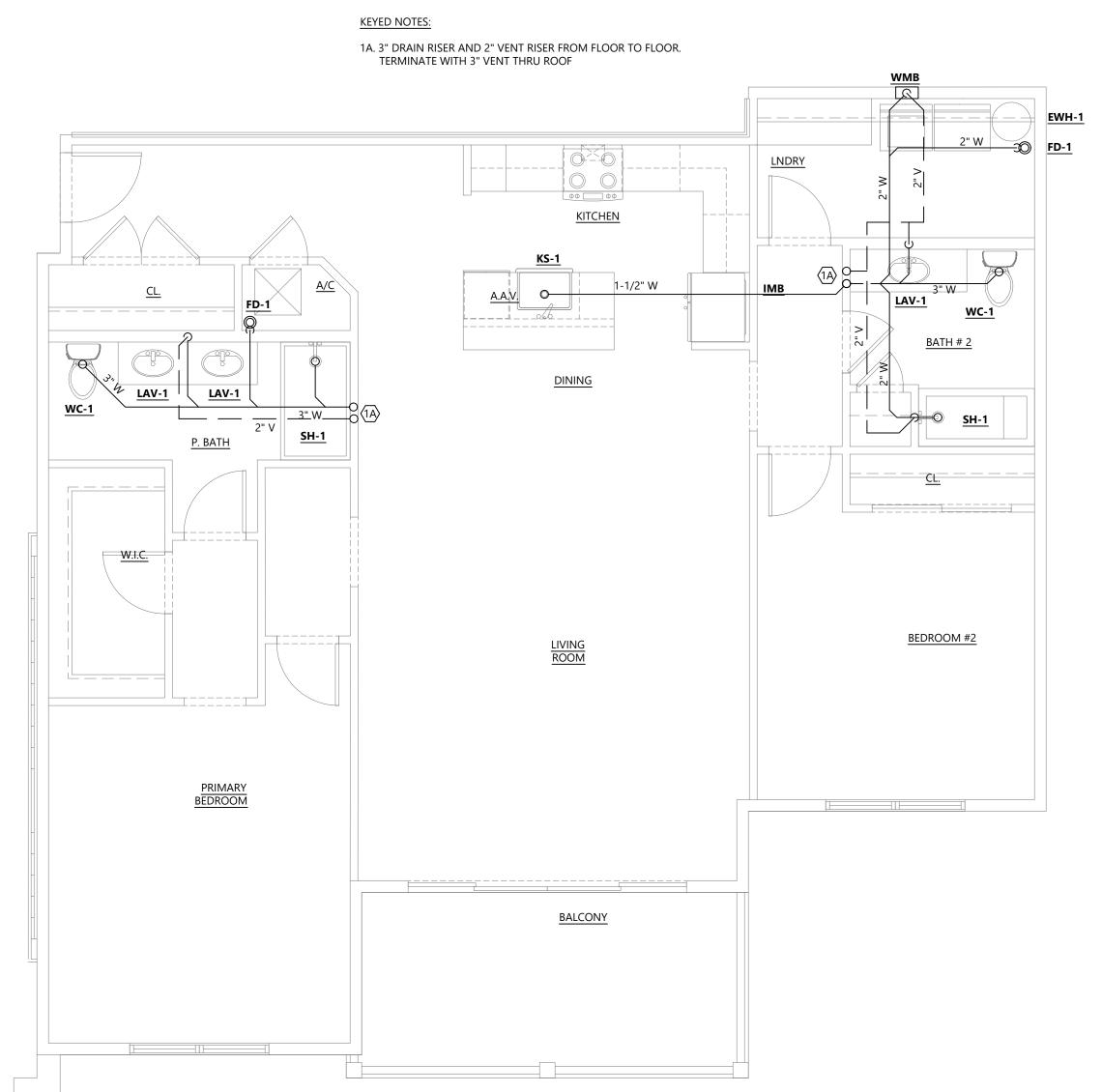
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ENLARGED UN PLANS

P_9

WILDE #: 24-2





TYPICAL 2BR UNIT LEVEL 3 PLUMBING SUPPLY PLAN

1/4"=1'-0"

TYPICAL 2BR UNIT LEVEL 3 PLUMBING SANITARY PLAN

1/4"=1'-0"

Wilde engineering

MECHANICAL, ELECTRICAL & PLUMBING

15822 Kelly Park Cir
Huntersville, NC
(704) 439-7038
NC Firm License No. P-2182

- PRELIMINARY -NOT FOR CONSTRUCTION

SIGNATUR

The Orchards at Naples Road, LL 341 N Main Street Hendersonville, NC 28792 Luis Graef: President

Orchard

PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville North Carolina

REVISIONS DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: JS
CHECKED BY: JK

DWG DECRIPTION:

ENLARGED UNIT
PLANS

P-10

DE #: 24-125

SPRINKLER DESIGN CRITERIA

OCCUPANCY	HAZARD	REMOTE AREA	HOSE STREAM	MAX HEAD COVERAGE	REMARKS
LIGHT HAZARD	0.10 GPM/SF	1500 SF	100 GPM	225 SF/HD	QR RESIDENTIAL SPRINKLERS THROUGHOUT

- SPRINKLER CONTRACTOR SHALL VERIFY FINISH OF

 ESCLITCHEON/FACEPLATE WITH ARCHITECT/OWNER

 ON THE CONTRACTOR SHALL VERIFY FINISH OF

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 ESCLITCHEON/FACEPLATE WITH ARCHITE
- ESCUTCHEON/FACEPLATE WITH ARCHITECT/OWNER.

 2. SPRINKLER HEADS SHALL MATCH OWNER STANDARDS.
- 3. ESCUTCHEONS SHALL BE COMPATIBLE WITH MAKE AND MODEL OF
- 4. ESCUTCHEONS SHALL BE INSTALLED TO ACCOUNT/ADJUST FOR CEILING TILE DEFLECTION.

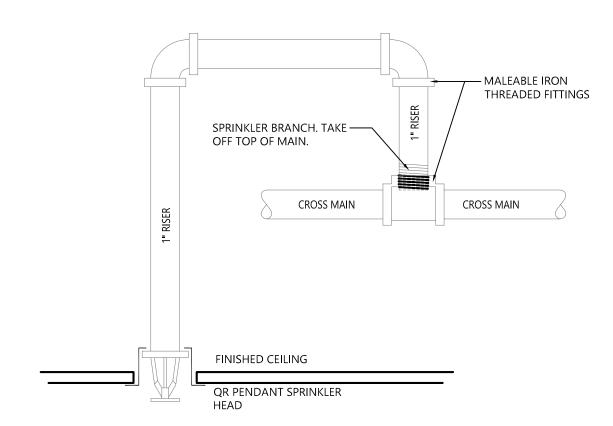
GENERAL PROJECT NOTES:

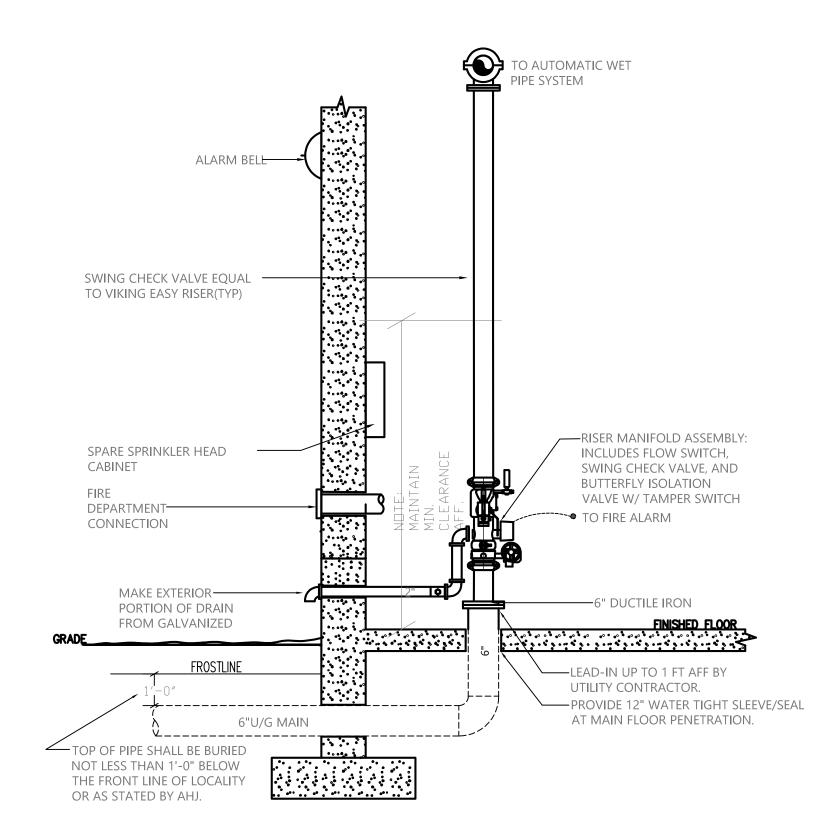
I. MOUNT SPRINKLERS WITHIN CENTER OF A.C.T. 2. SPRINKLERS SHALL BE A MINIMUM 4" FROM WALLS/OBSTRUCTION.

- SPRINKLERS SHALL BE INSTALLED A MINIMUM OF 6'-0" APART.
 SOFFITS ARE TO BE SPRINKLED, UNLESS ARE APPLICABLE TO
- EXEMPTION PER NFPA 8.6.5.1.2
- PROVIDE ADDITIONAL FIRE SPRINKLERS, AS MAY BE DIRECTED BY FIRE MARSHALL, AT NO ADDITIONAL COST TO OWNER.
- 5. PROVIDE UPRIGHT HEADS WITHIN OPEN CEILINGS.
- PROVIDE SEMI RECESSED HEADS WITHIN A.C.T. CEILINGS.
 PROVIDE CONCEALED HEADS WITHIN GYPSUM CEILINGS.
- 9. COORDINATE SPRINKLERS WITH LIGHTING/RCP, MECHANICAL, AND ALL OTHERS TRADES WITHIN PLANE OF CEILING.

Scope of Work:

PROJECT CONSISTS OF INSTALLING NEW WET SPRINKLER SYSTEM THROUGHOUT APARTMENT BUILDING.





DEFERRED SUBMISSION

THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS WITHIN THE WILDE ENGINEERING DOCUMENT SET ARE PERFORMANCE BASED AND INTENDED TO CONVEY SCOPE OF THE WORK. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL TO THE LOCAL AHJ SHOP DRAWINGS AND HYDRAULIC CALCULATIONS INDICATING THE SPRINKLER SYSTEM LAYOUT, INCLUDING FINAL HEAD LOCATIONS AND MAIN/LEADER PIPING SIZING. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THESE DOCUMENTS SEALED BY A LICENSED FIRE PROTECTION ENGINEER.

FIRE PROTECTION SPECIFICATIONS

- A. FIRE PROTECTION CONTRACTOR TO PROVIDE DESIGN AND INSTALLATION FOR NEW FIRE SPRINKLER SYSTEMS FOR NEW APARTMENTS BUILDINGS. FIRE PROTECTION SYSTEMS SHALL BE HYDRAULICALLY CALCULATED AND DESIGNED. FIRE PORTECTION CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL NECESSARY EQUIPMENT INCLUDING PIPE, FITTINGS,, VALVES AND ACCESSORIES. FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS, DESIGN OF SPRINKLER SYSTEMS, TESTING, MATERIAL AND LABOR FOR COMPLETE FIRE PROTECTION SYSTEM
- B. SPRINKLER SYSTEMS SHALL BE DESIGNED TO MEET STANDARDS OF NFPA 13R 2013ED. THE DESIGN SHALL ALSO MEET THE REQUIREMENTS OF THE OWNER'S INSURANCE COMPANY AND THE LOCAL AUTHORITY HAVING JURISDICTIONS.
- C. SUBCONTRACTOR SHALL PROVIDE COPIES OF DESIGN CALCULATIONS, DRAWINGS AND ALL SUBMITTAL DATA TO ALL AUTHORITY HAVING JURISDICTIONS, OWNER'S INSURANCE COMPANY AND ARCHITECT. FIRE PROTECTION CONTRACTOR TO PROVIDE COPIES OF MATERIAL DATA AND TEST CERTIFICATES FOR ABOVE GROUND PIPING STARTING AT 1'-0" ABOVE FINISHED FLOOR AT LEAD IN LOCATIONS TO AUTHORITY HAVING JURISDICTION, OWNER AND ENGINEER OF RECORD AS RECORD OF COMPLETION.
- D. OPERATION AND MAINTENANCE MANUALS TO BE PROVIDED TO THE OWNER BY THE FIRE PROTECTION CONTRACTOR.
- E. FIRE PROTECTION CONTRACTOR TO PROVIDE TRAINING FOR OWNER TO FAMILIARIZE THEMSELVES WITH BASIC FUNCTION OF THE FIRE SPRINKLER SYSTEMS, LOCATION OF RISER, MAINTENANCE REQUIREMENTS PER NFPA 25, EMERGENCY CONTACTS AND SHUT OFF VALVE LOCATIONS.
- F. ALL PIPE INSIDE THE UNITS WILL BE FIRE RATED CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE ASME B1.20.1, ASTM F441. ALL FITTINGS WILL BE CHLORINATED POLYVINYL CHLORIDE ASTM F439. THESE FITTINGS AND PIPE WILL BE JOINED BY SOLVENT CEMENT FOR ASTM F493. ALL CPVC PIPE AND CPVC FITTINGS TO BE UL/FM LISTED AND APPROVED.
- G. GATE VALVES WILL BE MADE OF AN IRON BODY, BRONZE TRIM, RISING OUTSIDE SCREW AND YOKE WITH SOLID WEDGE UL/FM LISTED AND APPROVED.
- H. SPRINKLER HEADS: PROVIDE 155° QUICK RESPONSE RESIDENTIAL SPRINKLERS IN THE PENDENT POSITION WITHIN THE UNITS ON THE LOWER FLOORS AND SIDEWALL SPRINKLERS ON THE TOP FLOOR OF ALL BUILDINGS. PROVIDE 155° DRY SIDEWALL SPRINKLERS IN ALL BUILDING TYPES.
- I. FIRE PROTECTION CONTRACTOR TO INSTALL PIPING IN ACCORDANCE WITH NFPA 13R 2013 ED. SEAL PIPING AND SLEEVE PENTRATIONS TO ACHIEVE FIRE RESISTANCE TO FIRE SEPARATION AS REQUIRED.

FIRE PROTECTION CRITERIA

- A. NEW CONSTRUCTION IS 7 MULTI STORY APARTMENT BUILDINGS VARYING IN SIZE WITH A NEW WET SPRINKLER SYSTEM DESIGNED PER NFPA-13R 2013 ED. CPVC SPRINKLER PIPE WILL BE RAN WITHIN THE TRUSSES BETWEEN FLOORS WITH THE SPRINKLER HEADS BEING FED FROM THIS PIPE. THE SITE IS LOCATED IN HENDERSONVILLE, NC.
- B. | FIRE SPRINKLER ACCEPTANCE TESTING SHALL BE PROVIDED PER NFPA-13R 2013 ED.
- C. SPRINKLER SYSTEM FOR THE BUILDING SHALL BE WET PIPE SPRINKLER SYSTEM, DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13R 2013 ED.
- D. THESE APARTMENT BUILDINGS WILL BE DESIGNED FOR LH OCCUPANCY PER NFPA-13R 2013ED. SPRINKLERS WILL BE RESIDENTIAL SPRINKLERS WITH SPRINKLER SPACING PER SPRINKLER SPECIFICATION SHEETS USED IN DESIGN. FIRE PROTECTION CONTRACTOR WILL BE A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM AND WILL BE RESPONSIBLE FOR PROVIDING HYDRAULIC CALCULATIONS FOR THE FIRE SPRINKLER SYSTEM.
- E. STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS FOR THE FIRE PROTECTION SYSTEM INCLUDING LIVE AND DEAD LOADS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. CPVC PIPE WILL BE LOCATED WITH A WALL CAVITY IN THE UNIT. ALL PENETRATIONS THRU STRUCTURAL MEMBERS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER PRIOR TO CORING OR SUPPORTING TO ENSURE PROPER WEIGHT DISTRIBUTION AND TO AVOID WEAKENED STRUCTURE. ALL FIRE PROTECTION PIPING PENETRATIONS SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED CAULK.
- F. FIRE PROTECTION CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING SEISMIC BRACING OF THE FIRE PROTECTION MAIN PIPING AND BRANCH LINE PIPE WILL BE SUPPLIED IF APPLICABLE.
- SPRINKLERS IN BATHROOMS 55 SQFT AND SMALLER ARE PERMITTED TO BE OMITTED PER NFPA 13R 2013ED.SECTION 6.6.2. SPRINKLERS IN CLOTHES CLOSETS, LINEN CLOSETS AND PANTRIES ARE PERMITTED TO BE OMITTED PER NFPA 13-R 2013ED. SECTION 6.6.3. SPRINKERS ARE PERMITTED TO BE OMITTED IN CLOSETS ON BALCONIES PER NFPA 13-R 2013 ED. SECTION 6.6.7
- PENDENT SPRINKLERS SHALL BE LOCATE AT LEAST 3FT FROM CEILING FANS AND LIGHT FIXTURES PER NFPA 13R- 2013 ED. SECTION 6.4.6.3.4.1. SIDEWALL SPRINKLERS SHALL BE LOCATED AT LEAST 5FT FROM CEILING FANS AND LIGHT FIXTURES PER NFPA 13R-2013 ED. SECTION 6.4.6.3.5.1

FIRE PROTECTION GENERAL NOTES

- A. ALL WORK TO BE PERFORMED BY A FIRE PROTECTION CONTRACTOR LICENSED IN THE STATE OF NORTH CAROLINA AND IS CAPABLE OF HANDLING THE WORK OF THE SIZE AND SCOPE INDICATED ON THE PLANS. ALL WORK SHALL BE PERFORMED BY OTHERS. ALL WORK SHALL BE NEAT AND PROFESSIONAL, AND SHALL MEET ALL SAFETY REQUIREMENTS SPECIFIED BY CODE OR RECOMMENDED MANUFACTURER.
- B. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. CLEARANCES SHALL BE MAINTAINED AND EQUIPMENT SHALL BE INSTALLED TO ALLOW FOR EASE OF SERVICE.
- C. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE BUILDING CODES AND WITH REQUIREMENTS OF ALL LOCAL AUTHORITY HAVING JURISDICTIONS.
- D. THE FIRE PROTECTION CONTRACTOR SHALL WARRANTY ALL OF THEIR WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS, STARTING AT THE DATE WHEN THE SYSTEM IS DETERMINED TO BE PUT INTO SERVICE AND COMPLETE. IF DURING THE WARRANTY PERIOD ANY PORTION OF THE SYSTEM(S) IS FOUND TO BE DEFECTIVE, THE FIRE PROTECTION CONTRACTOR SHALL REPAIR OR REPLACE THAT PORTION OF THE SYSTEM IN A TIMELY MANNER AND AT NO EXPENSE TO THE OWNER. THIS WARRANTY SHALL BE IN ADDITION TO ANY MANUFACTURER'S WARRANTY.
- E. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT A SET OF NFPA SHOP DRAWINGS SHOWING THE PIPE ROUTES, HANGER LOCATIONS AND PLACEMENT OF SPRINKLERS. THESE DRAWINGS SHALL INDICATE REMOTE AREAS AND DENSITIES ALONG WITH SPACING OF THE SPRINKLER HEADS WITHIN THE BUILDING. THE DRAWINGS SHALL CROSS REFERENCE NODES AND PIPES USED TO PREPARE HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS SHALL BE PERFORMED AND BASED ON THE PREPARED DRAWINGS BY THE FIRE PROTECTION CONTRACTOR. THE HYDRAULIC CALCULATIONS SHALL PROVE THE WATER PRESSURES AND FLOWS AT THE SITE ARE SUFFICIENT TO MEET SPRINKLER REQUIREMENTS.
- F. PIPE AND EQUIPMENT SUPPORTS AND HANGERS SHALL MEET LOCAL SEISMIC REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE AND NFPA STANDARDS. SEISMIC CALCULATIONS SHALL BE PERFORMED TO DETERMINE THE TYPE OF SEISMIC BRACES AND RESTRAINTS THAT SHALL BE USED FOR THE SPRINKLER SYSTEM IF APPLICABLE.
- G. REFER TO PLUMBING PLANS FOR RISER ROOM LOCATIONS AND BUILDING LAYOUTS



- PRELIMINARY -NOT FOR CONSTRUCTION

SIGNATURE:

CLIENT:
The Orchards at Naples Road, LLG
341 N Main Street
Hendersonville, NC 28792
Luis Graef: President



PROPERTIES
PROJECT:

ne Orchards at Naples Road Apartment Complex Hendersonville, North Carolina

DWG INFO :

ISSUE DATE: 4/11/25 PROJECT #: 22105 DRAWN BY: JS CHECKED BY: JK

REVISIONS

FIRE PROTECTION
COVER SHEET
BLDGS 5& 7

FP-00

WILDE #: 24-125