GENERAL ABBREVIATIONS

A.F.F. ABOVE FINISH FLOOR **SQUARE** STD. STANDARD ACOUS. ACOUSTICAL ADJ. ADJUSTABLE STL. STEEL ALUM. ALUMINUM STOR. STORAGE ANGLE ARCH. ARCHITECTURAL TOP OF T.O. BD. BOARD THK. THICK BLDG. BUILDING TYP. TYPICAL BLK. BLOCK BLKG. BLOCKING NOTED VERT. VERTICAL **BEAM**

BOT. BOTTOM CAB. CABINET CEM. CEMENT CL. CENTERLINE CER. CERAMIC CLG. CEILING CLKG. CAULKING CLR. CLEAR COL. COLUMN

CONC. CONCRETE C.M.U. CONCRETE MASONRY UNIT CONT. CONTINUOUS

DET. DETAIL DIA. DIAMETER DIM. DIMENSION DR. DBL. DOUBLE

DN. DOWN DOWNSPOU' DWG. DRAWING **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 FIRE RETARDANT F.S. FULL SIZE FIN. **FINISH** FLOOR FLUOR. FLUORESCENT FT. FOOT, FEET F.V. FIELD VERIFY

GRAB BAR G.C. GENERAL CONTRACTOR GA. G.F.R.C. GLASS FIBER REINFORCED

GLASS GYP. GYPSUM HOLLOW CORE HOLLOW METAL

CEMENT

HANDICAPPED HDWD. HARDWOOD HORIZ. HORIZONTAL HGT. HEIGHT

HOUR HANGER-TIGHT UNIT HVAC HEATING, VENTILATION, AIR CONDITIONING INSIDE DIAMETER INSUL. INSULATION

JOINT LAM. LAMINATE LIGHT MIR. MIRROR MAX. MAXIMUM MECH. MECHANICAL

MFR. MANUFACTURER MINIMUM MISC MISCELLANEOUS MTL. **METAL** NORTH

N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE (N) NEW

NUMBER NOM. NOMINAL OPNG. OPENING OPPOSITE

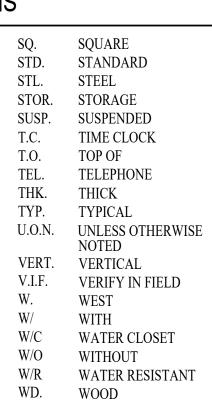
P.LAM. PLASTIC LAMINATE PLATE PLAS. PLASTER PLYWD. PLYWOOD PAIR

POINT POUND OR NUMBER RISER

RAD. RADIUS REQ'D. REQUIRED RESIL. RESILIENT ROOM ROUGH OPENING

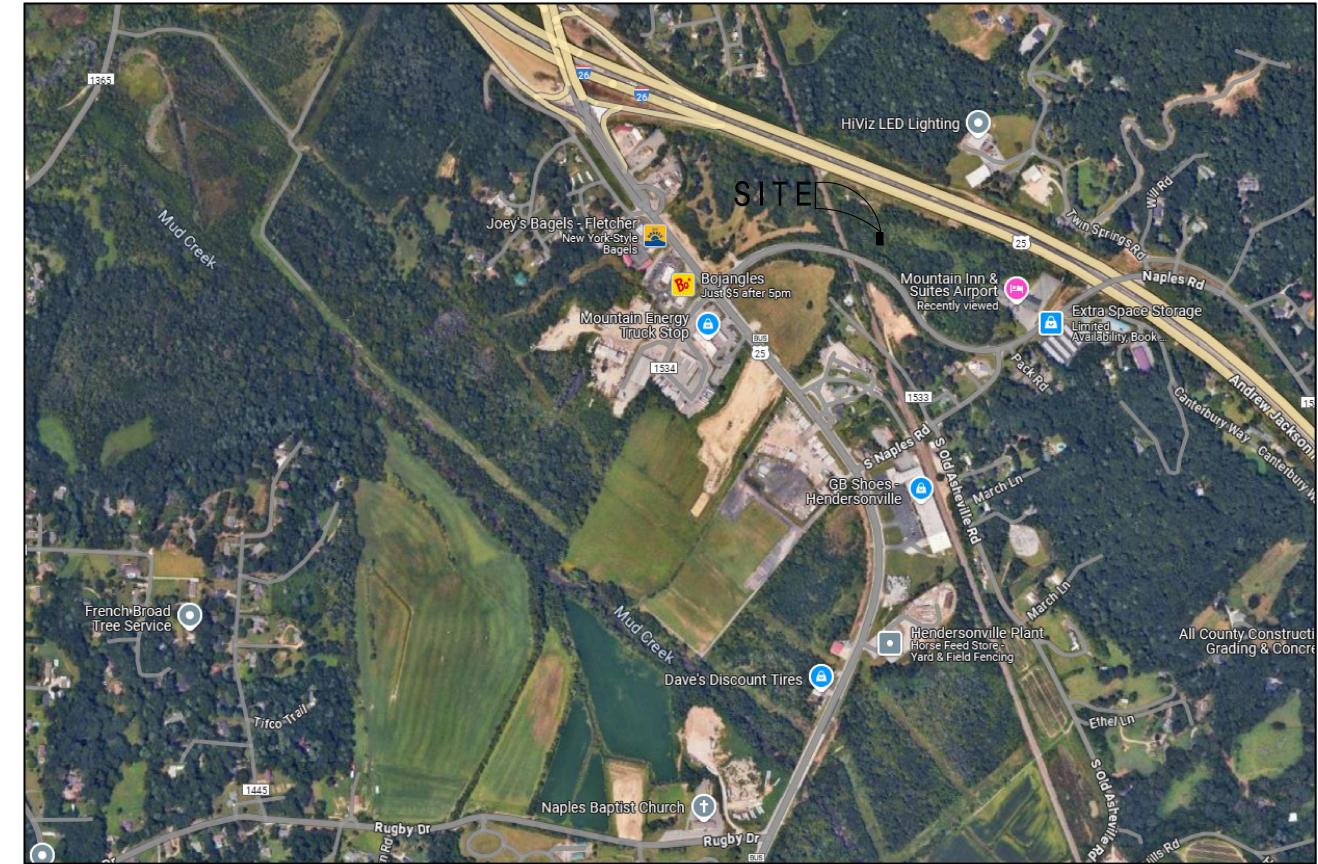
SOUTH SOLID CORE STAINLESS STEEL

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



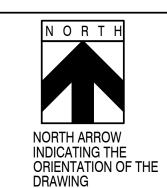
WT. WEIGHT

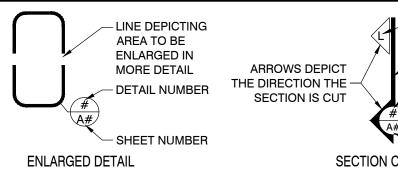


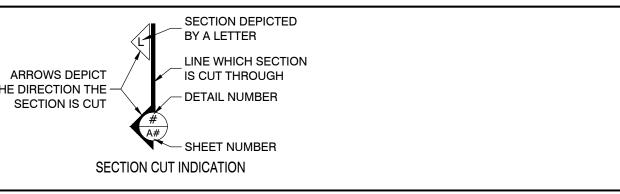


LOCATION MAP - 399 NAPLES RD.- SEE CIVIL

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, FÍRE PREVENTION CODES

CS-1	
A-0.1 A-0.2 A-1.0 A-1.1 A-1.2 A-2.0 A-2.1 A-2.2 A-3.0 A-3.1 A-3.2 A-3.0 A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-	COVER SHEET- NOTES-LOCATION MAP
A-0.1 A-0.2 A-1.0 A-1.1 A-1.2 A-2.0 A-2.1 A-2.2 A-3.0 A-3.1 A-3.2 A-3.0 A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-	ARCHITECTURAL
A-0.2	
A-1.0 A-1.1 A-2.0 A-2.1 A-2.0 A-3.0 A-3.1 A-3.2 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.3 A-5.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.7 A-6.2 A-6.3 A-6.4 A-6.2 A-6.3 A-6.4 A-6.5 A-	
A-1.1 A-1.2 A-2.0 A-2.1 A-2.2 A-3.0 A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.7 A-6.2 A-6.3 A-6.4 A-6.2 A-6.3 A-6.4 A-6.5 A-	
A-1.2	
A-2.0 A-2.1 A-2.2 A-3.0 A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.3 A-6.4 A-6.2 A-6.3 A-6.4 A-6.5 A-	
A-2.1 A-2.2 A-3.0 A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.2 A-6.3 A-6.4 A-6.2 A-6.3 A-6.4 A-6.2 A-6.3 A-6.4 A-6.5 A-	1
A-2.2 A-3.0 A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.3 A-6.4 A-6.5 A-	
A-3.0 A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.5 A-6.7 A-6.5 A-6.7 A-6.5 A-6.7 A-6.9 A-	
A-3.1 A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.7 A-6.2 A-6.3 A-6.4 A-6.5 A-	
A-3.2 A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-	
A-4 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.3 A-6.4 A-6.5 A-	
A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.3 A-6.4 A-6.5 A-6.3 A-6.4 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.3 A-6.4 A-6.5 A-6.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.2 A-6.3 A-6.4 A-6.5 A-6.3 A-6.4 A-6.2 A-6.3 A-6.4 A-6.5	
A-5.2 A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5	ROOF PLAN
A-5.3 A-5.4 A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5	
A-5.4 A-5.5 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5	
A-5.5 A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5	
A-5.6 A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.0	
A-6.1 A-6.2 A-6.3 A-6.4 A-6.5 A-6.5 A-6.5 A-6.5 S-0.00 S-0.01 S-1.00 S-1.01 S-1.02 S-1.03 S-2.01B S-2.02 S-2.03 S-2.04 S-2.05 S-3.00 S-3.01 S-4.00 S-4.01 S-5.00 B-01 E-02 E-03 E-04 E-05 E-10.5 E-10.7 E-21 E-22 E-23 E-24 E-31 E-41 E-42 E-43 E-44 E-45 M-00 M-01 M-1 M-1 M-2 M-3 M-4 P-00 P-1 P-2 P-3 P-0 P-1 P-2 P-3 P-6 P-7 P-8 P-9	
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S-0.01 S-1.00 S-1.01 S-1.02 S-1.03 S-2.01B S-2.02 S-2.03 S-2.04 S-2.05 S-3.00 S-3.01 S-4.00 S-4.01 S-5.00 E-01 E-02 E-03 E-04 E-05 E-10.5 E-10.7 E-21 E-22 E-23 E-24 E-31 E-41 E-42 E-43 E-44 E-45 M-00 M-01 M-1 M-1 M-2 M-3 M-4 P-00 P-1 P-2 P-3 P-0 P-1 P-2 P-3 P-6 P-7 P-8 P-9	
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M-2 M-3 M-4 P-00 P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9	MECHANICAL PLAN - BASEMENT.
M-3 M-4 P-00 P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9	MECHANICAL PLAN - FIRST FLOOR.
P-00 P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9	MECHANICAL PLAN - SECOND FLOOR.
P-00 P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9	MECHANICAL PLAN - THRID FLOOR.
P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9	PLUMBING
P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9	1 2 3 3 3 3 3
P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9	PLUMBLING SANITARY & SUPPLY PLAN - BASEMENT.
P-3 P-4 P-5 P-6 P-7 P-8 P-9	PLUMBING SANITARY PLAN - FIRST FLOOR.
P-4 P-5 P-6 P-7 P-8 P-9	PLUMBING SANITART FLAN - FIRST FLOOR.
P-5 P-6 P-7 P-8 P-9	PLUMBING SUPPLY PLAN - SECOND FLOOR.
P-6 P-7 P-8 P-9	PLUMBING SANITARY PLAN - SECOND FLOOR.
P-7 P-8 P-9	PLUMBING SANITARY PLAN - THIRD FLOOR.
P-8 P-9	PLUMBING SANITARY PLAN - THIRD FLOOR. PLUMBING SUPPLY PLAN - THIRD FLOOR.
P-9	ENLARGED UNIT PLANS.
	ENLARGED UNIT PLANS.
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1 7 - 00	, THILLING LOTION COVER SHEET

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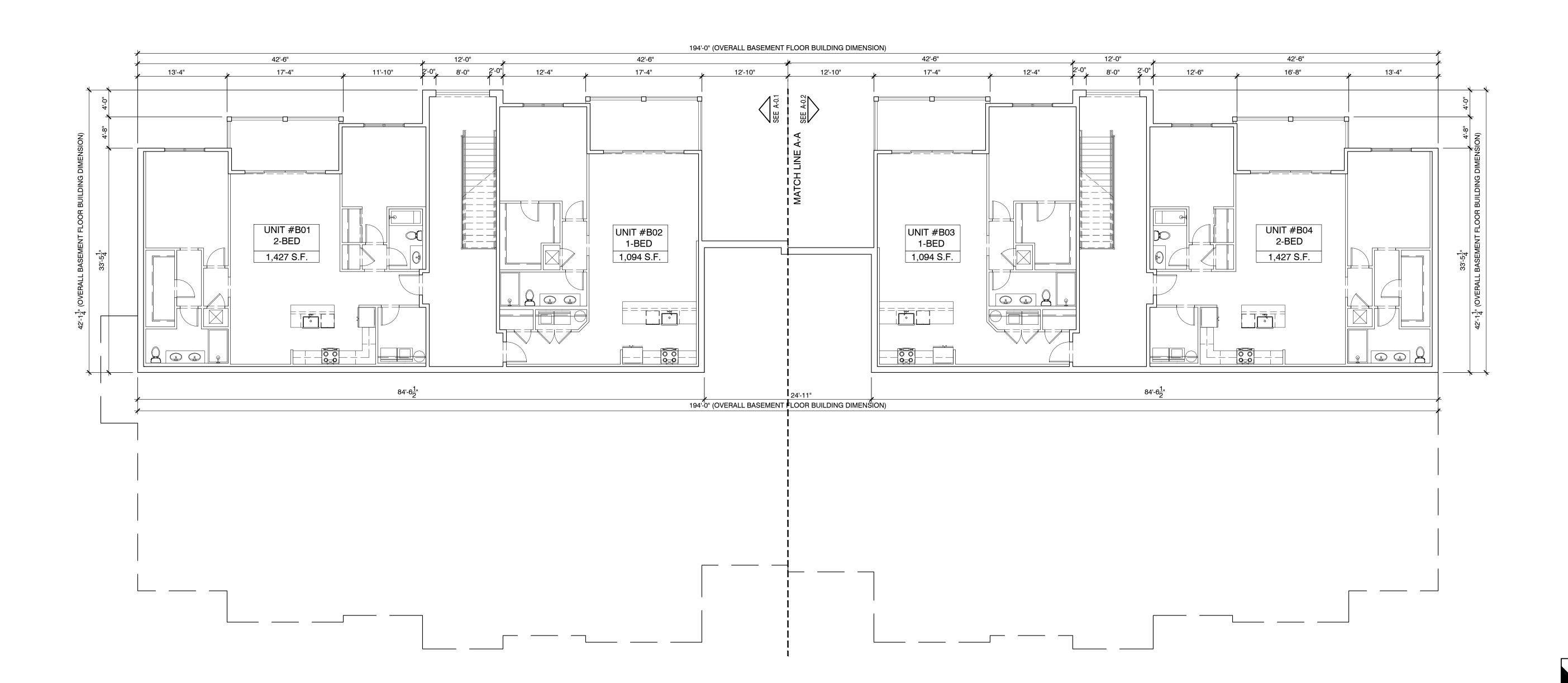
BASEMENT WINDOW SCHEDULE									
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS	
B01	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS	

L									
	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 Q.E	412 S.F.	6,368 S.F.				
B02	1	-	1,081 S.F.	134 S.F.	1,215 S.F.	2,755 S.F.	412 3.F.					
B03	1	-	1,081 S.F.	134 S.F.	1,215 S.F.	2,755 S.F.	412 S.F.					
B04	2	-	1,408 S.F.	132 S.F.	1,540 S.F.	2,733 0.1 .	412 3.1 .					



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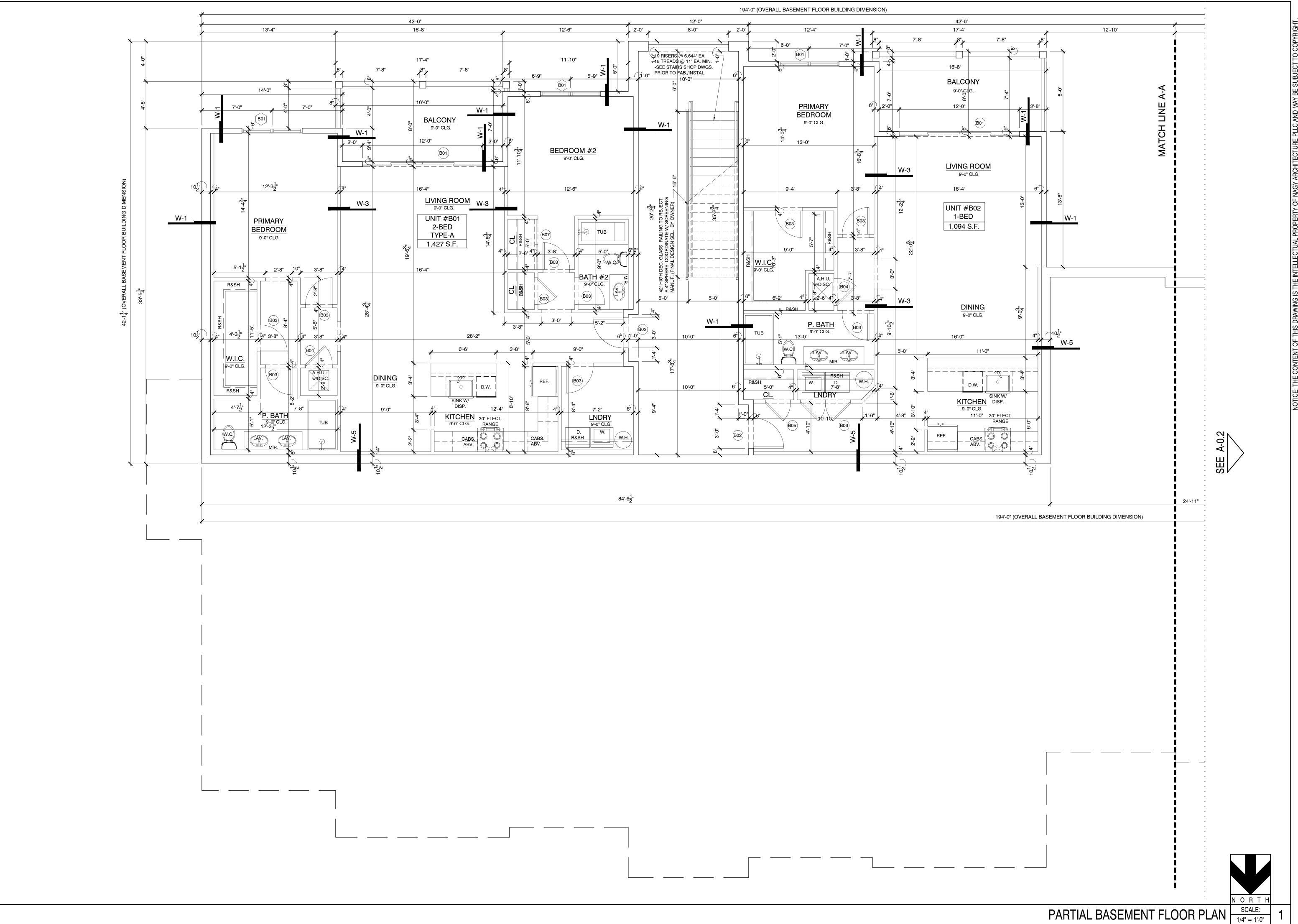


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OVERALL BASEMENT FLR. PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.



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SIGNATURE:

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PROJECT:

s at Naples Road nt Complex 3-28 units

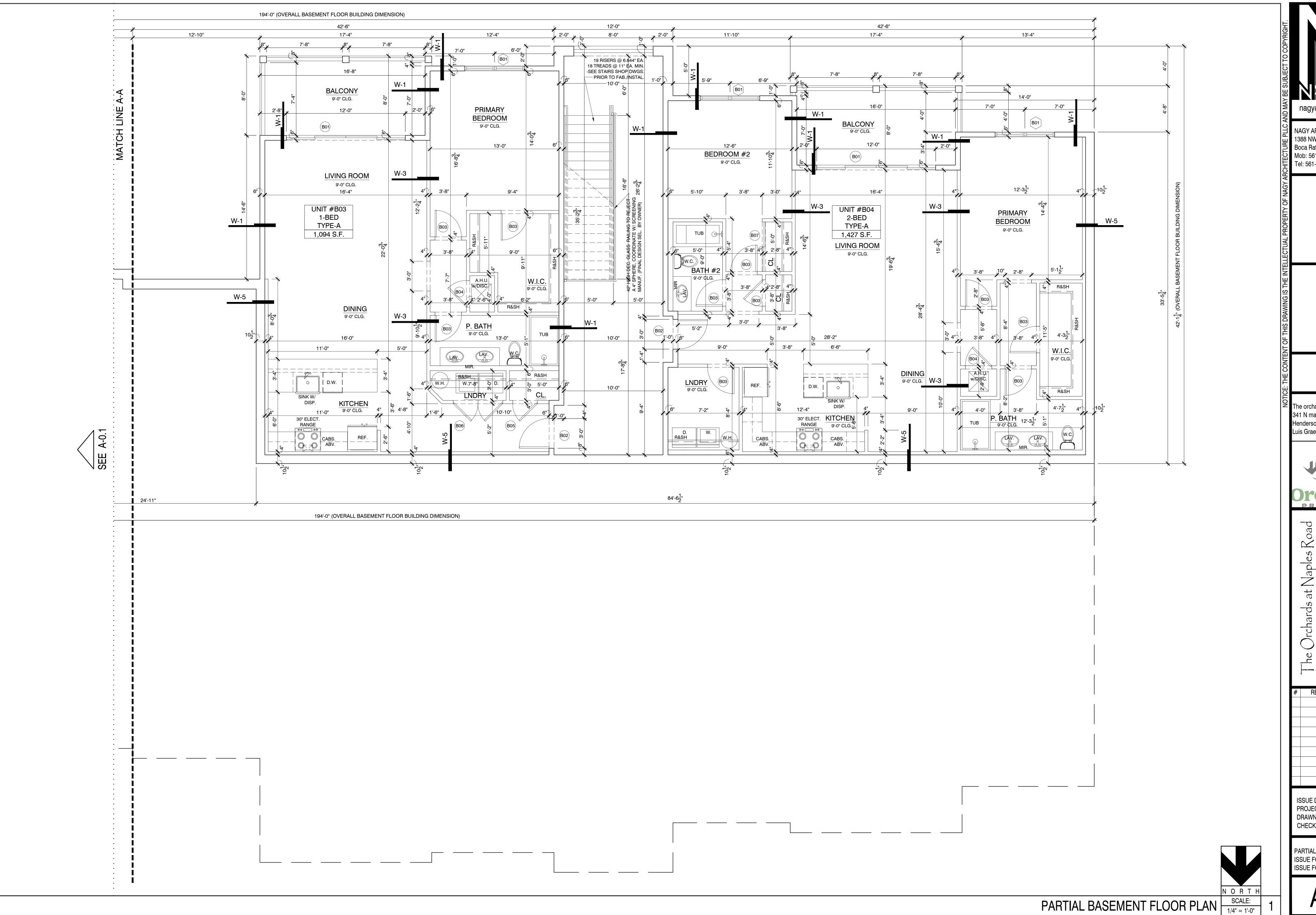
Apartment (Building 3 ~ Hendersonville, No

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



PROJECT:

PROJECT:

Irchards at Naples Kolpartment Complex

Suilding 3-28 units

REVISIONS DATE

ISSUE DATE: 05/02/25
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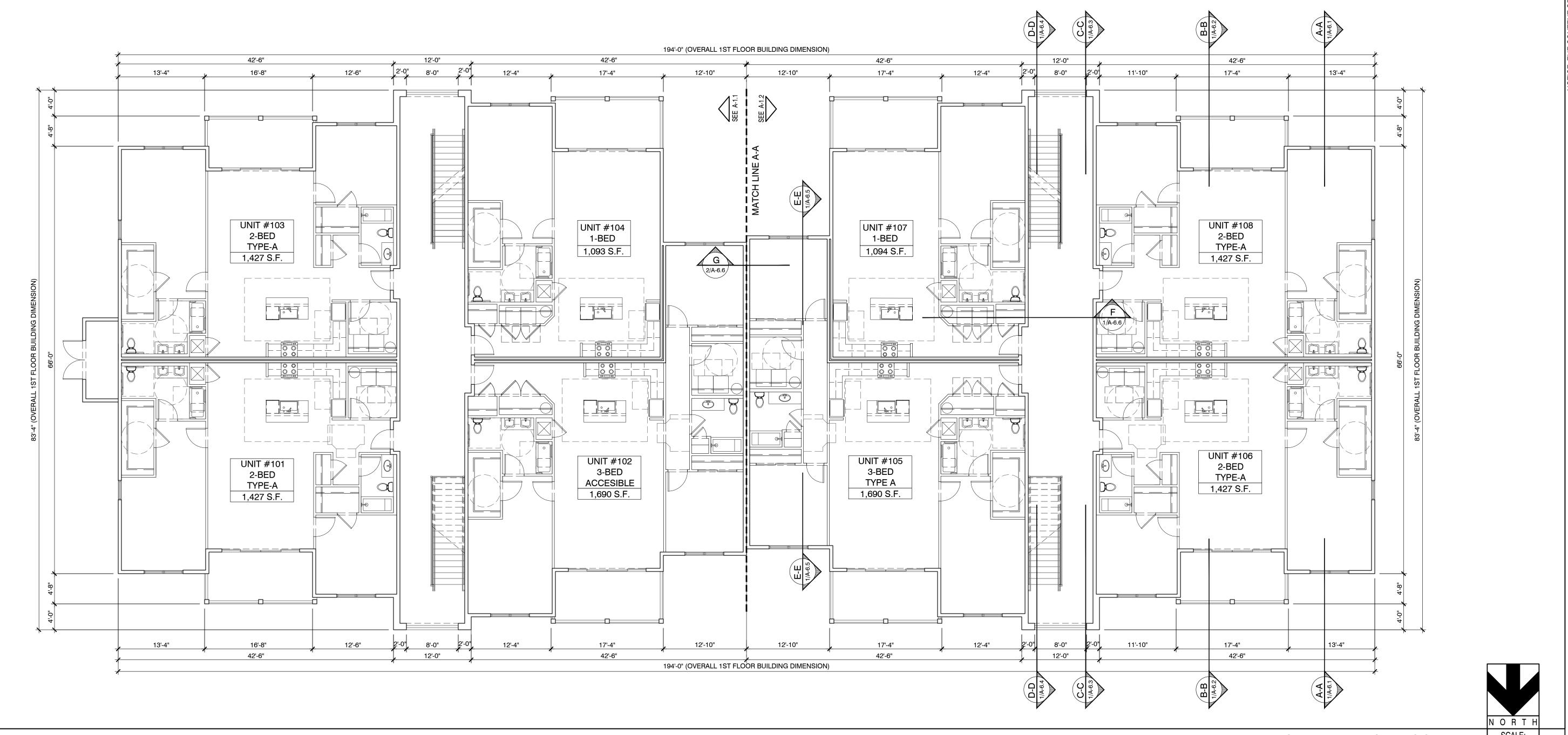
FIRST FLOOR WINDOW SCHEDULE										
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS		
101	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS		
102	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS	EGRESS		

FIRST FLOOR EXTERIOR DOOR SCHEDULE

No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS
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			

	FIRST FLOOR INTERIOR 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	-	<u>-</u>							
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.			17,100.0 0.1					
106	2	А	1,427 S.F.	132 S.F.	1,559 S.F.	6 170 S F	749.5 S.F.						
107	1	-	1,094 S.F.	134 S.F.	1,228 S.F.	6,170 S.F.	7 10.0 0.11						
108	2	А	1,427 S.F.	132 S.F.	1,559 S.F.								



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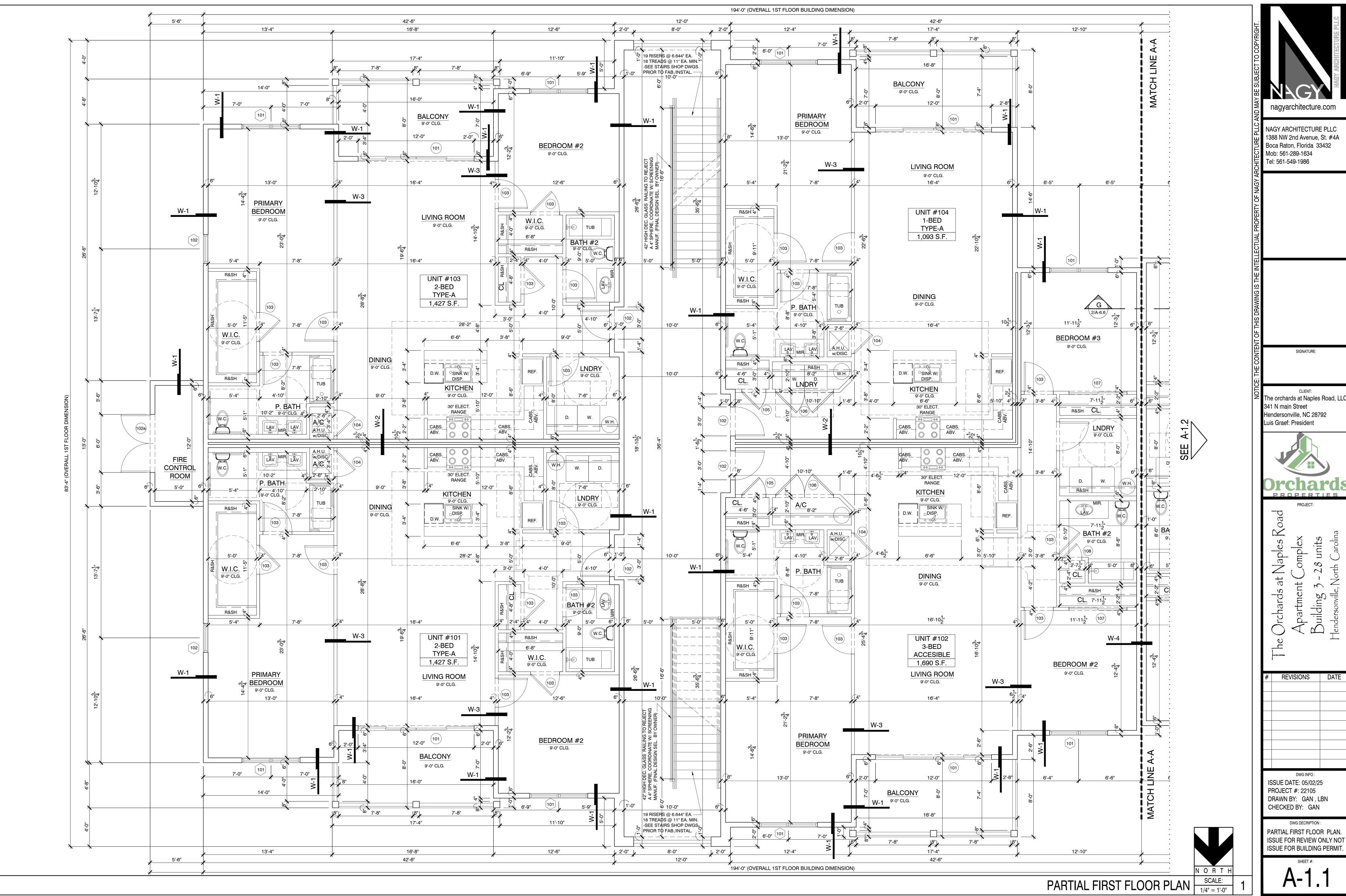
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OVERALL FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"

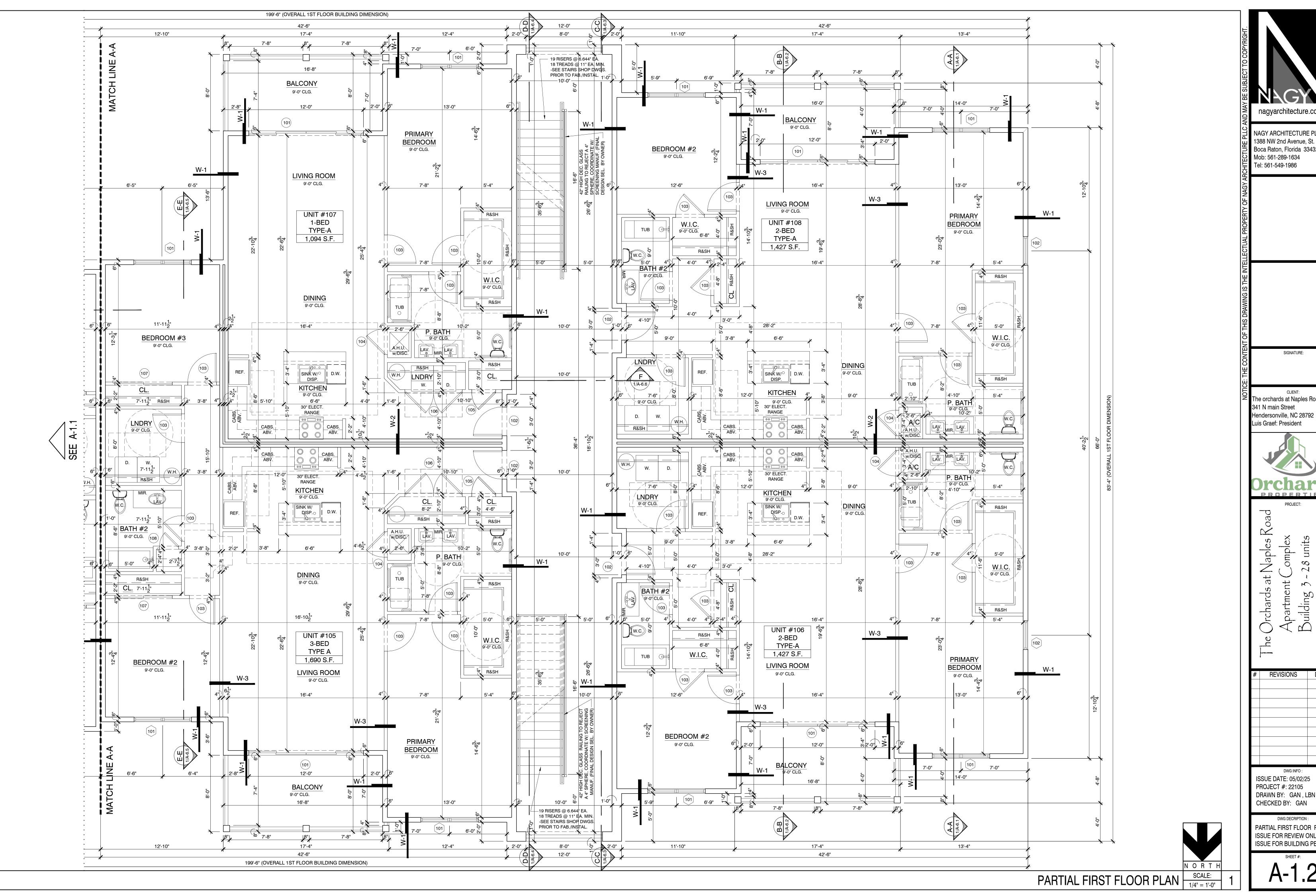


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Luis Graef: President

Orchards

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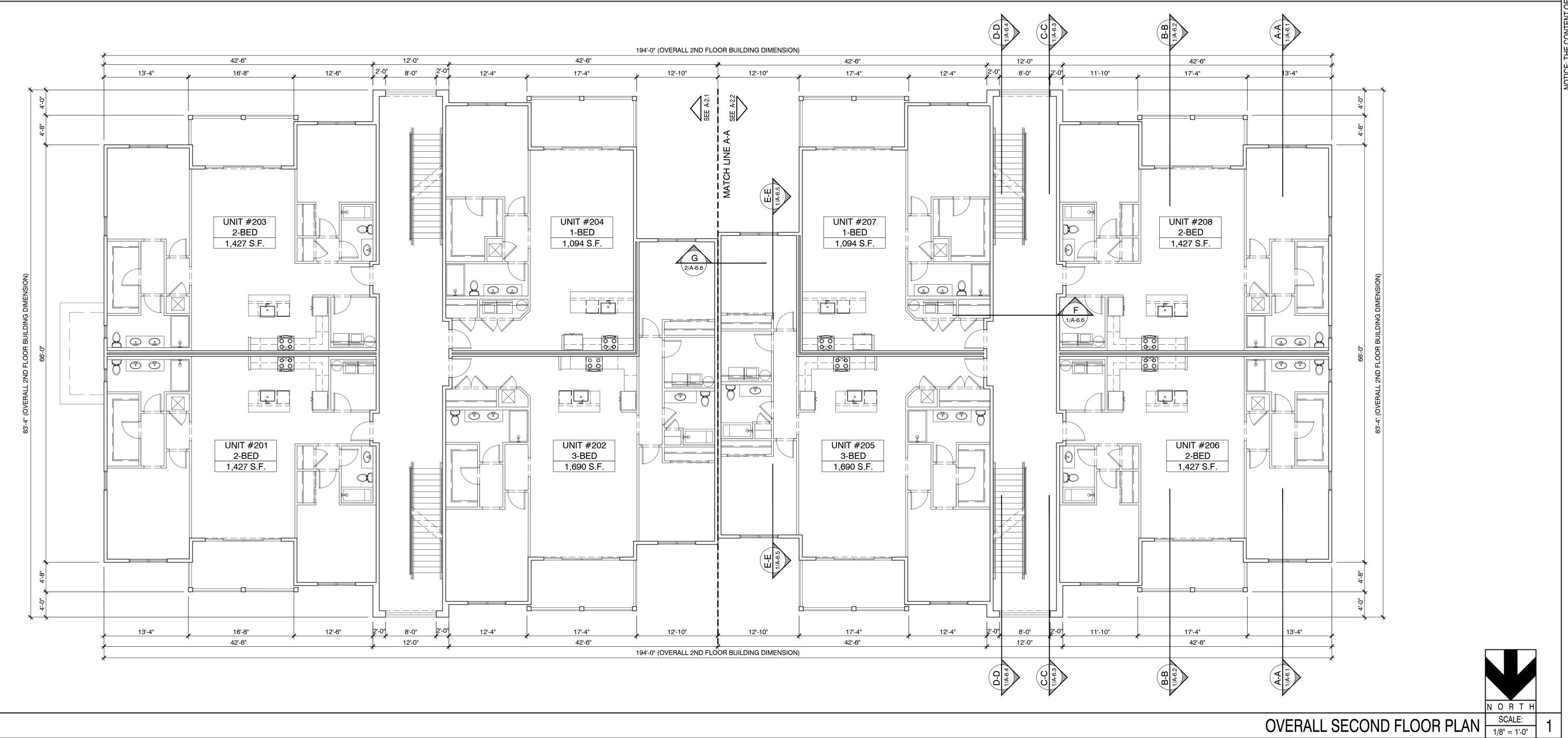
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	SECOND FLOOR WINDOW SCHEDULE										
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS			
201	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS			
202	SINGLE HUNG	36" X 60"	36" X 60"	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	EGRES			
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											
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA			
201	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			14,124 S.F.			
202	3	-	1,690 S.F.	134 S.F.	1,824 S.F.	6,170 S.F.	749.5 S.F.				
203	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	0,170 S.F.					
204	1	-	1,094 S.F.	134 S.F.	1,228 S.F.						
205	3	-	1,690 S.F.	134 S.F.	1,824 S.F.						
206	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	6,170 S.F.	749.5 S.F.				
207	1	-	1,094 S.F.	134 S.F.	1,228 S.F.	0,170 S.F.	740.0 0.1 .				
208	2	-	1,427 S.F.	132 S.F.	1,559 S.F.						



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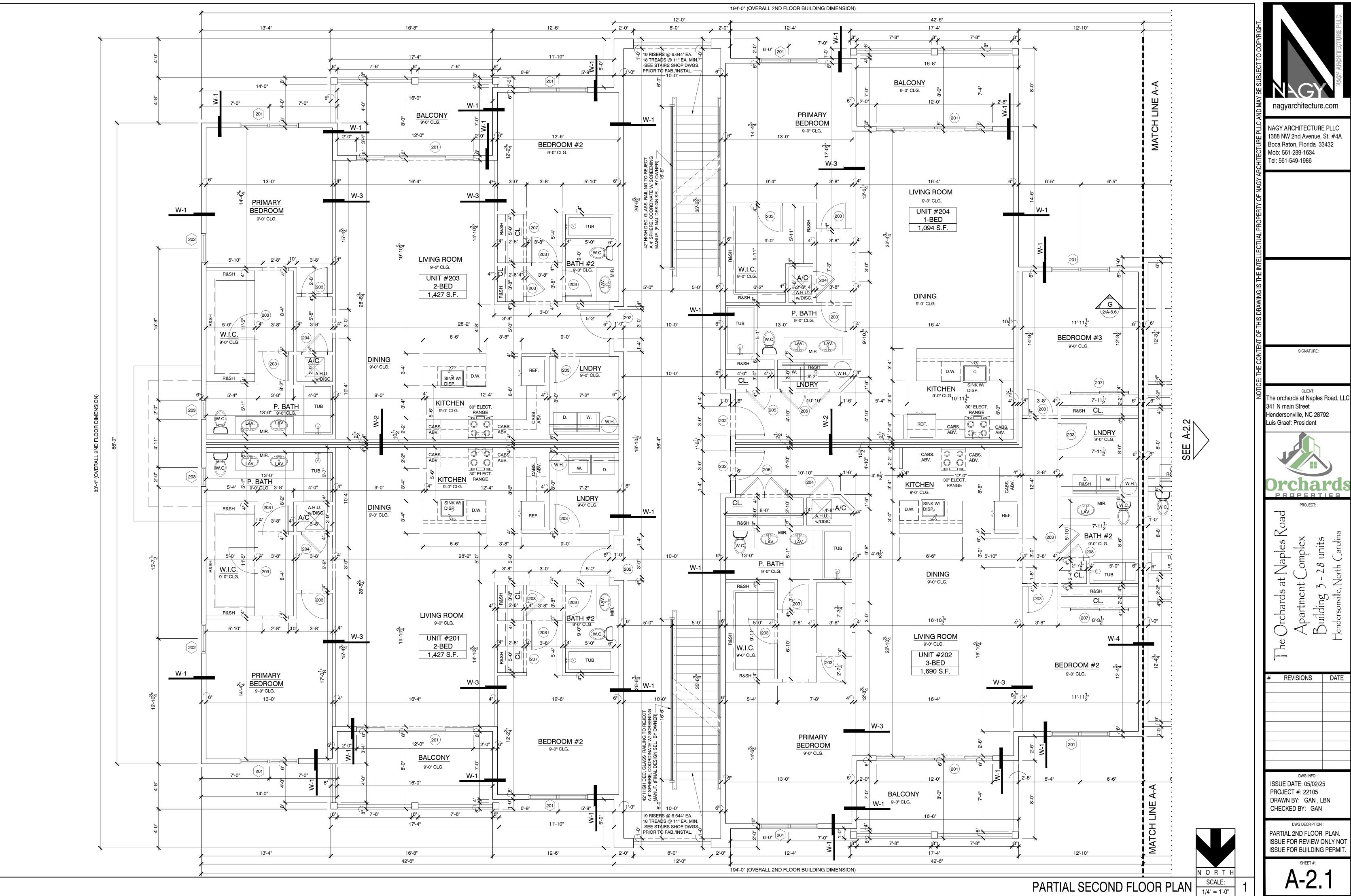
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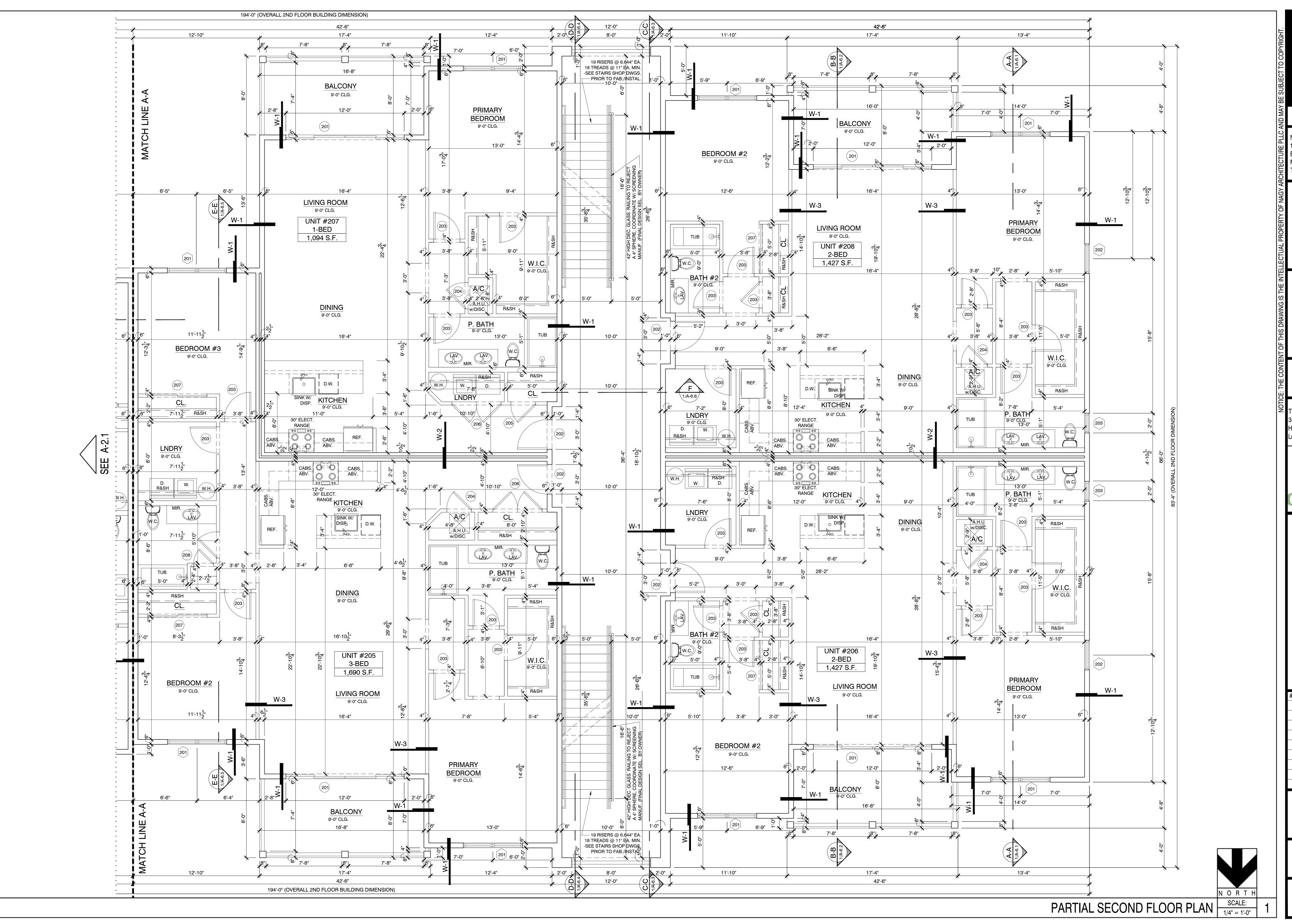
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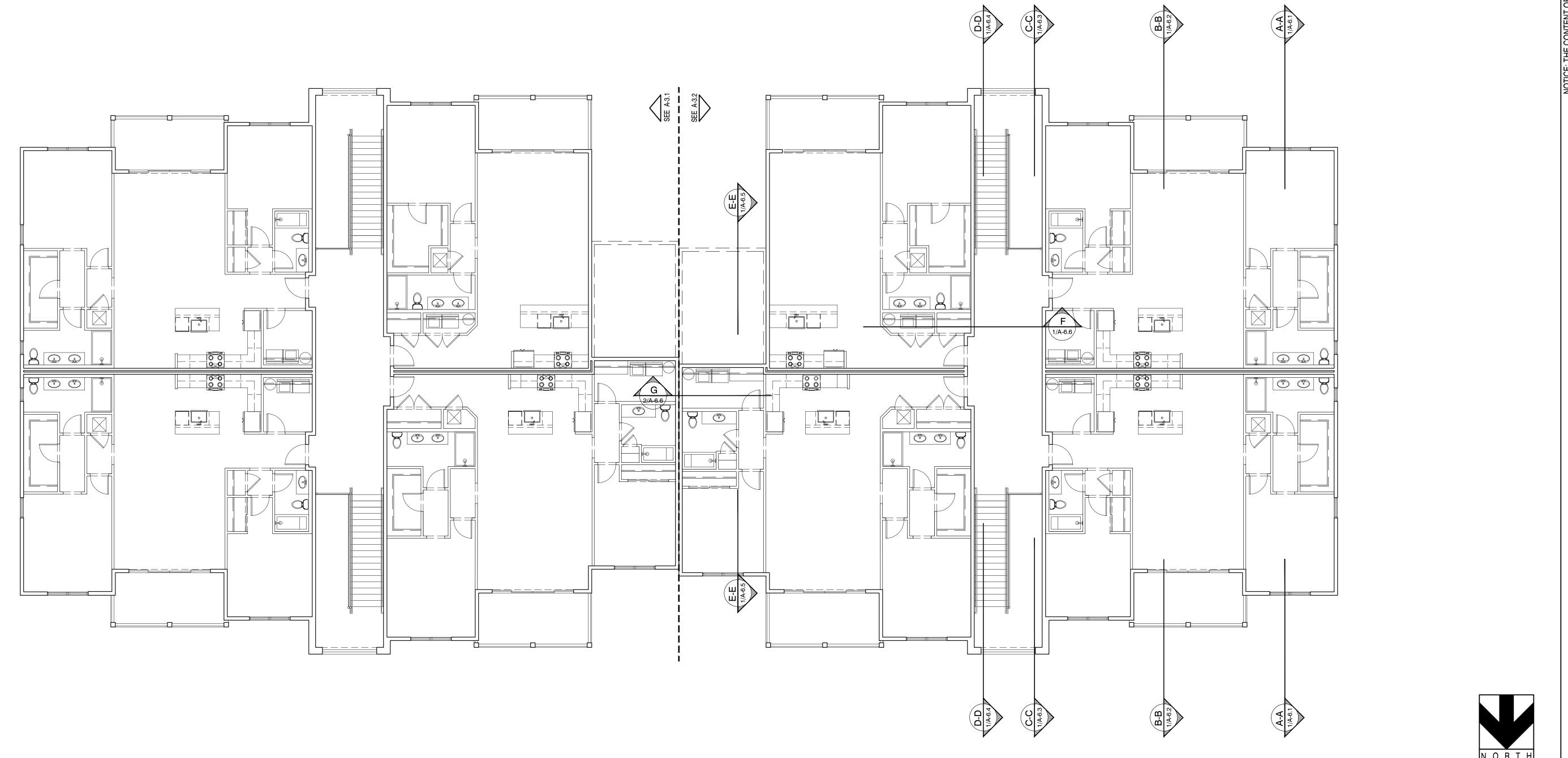
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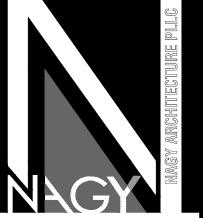
	THIRD FLOOR WINDOW SCHEDULE										
No.	TYPE	WxH	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS	EGRESS			
301	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS	EGRESS			
302	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS	EGRESS			
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	TYPE WxH MAT		SILL	REMARKS					
303	SINGLE DR. 2'-8	2'-8"X6'-8"	WOOD	-	-					
304	SINGLE DR.	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"	(2) 2'-6"X6'-8"	WOOD	-	-					
308	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-					

THIRD FLOOR AREA CALCULATION										
TOTAL FLR. GROSS AREA	UNIT # OF BED. TYPE UNIT AREA BALCONY TOTAL UNIT'S AREA COMMON AREA									
12,717 S.F.	383 S.F.		1,559 S.F.	132 S.F.	1,427 S.F.	-	2	301		
		5,977 S.F.	1,630 S.F.	134 S.F.	1,496 S.F.	-	2	302		
		5,977 5 .F.	1,559 S.F.	132 S.F.	1,427 S.F.	-	2	303		
			1,229 S.F.	134 S.F.	1,095 S.F.	-	1	304		
	383 S.F.		1,630 S.F.	134 S.F.	1,496 S.F.	-	2	305		
		5,977 S.F.	1,559 S.F.	132 S.F.	1,427 S.F.	-	2	306		
		э, э гт э.г.	1,229 S.F.	134 S.F.	1,095 S.F.	-	1	307		
			1,559 S.F.	132 S.F.	1,427 S.F.	-	2	308		





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Boca Raton, Florida 33432 Mob: 561-289-1634 Tel: 561-549-1986

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

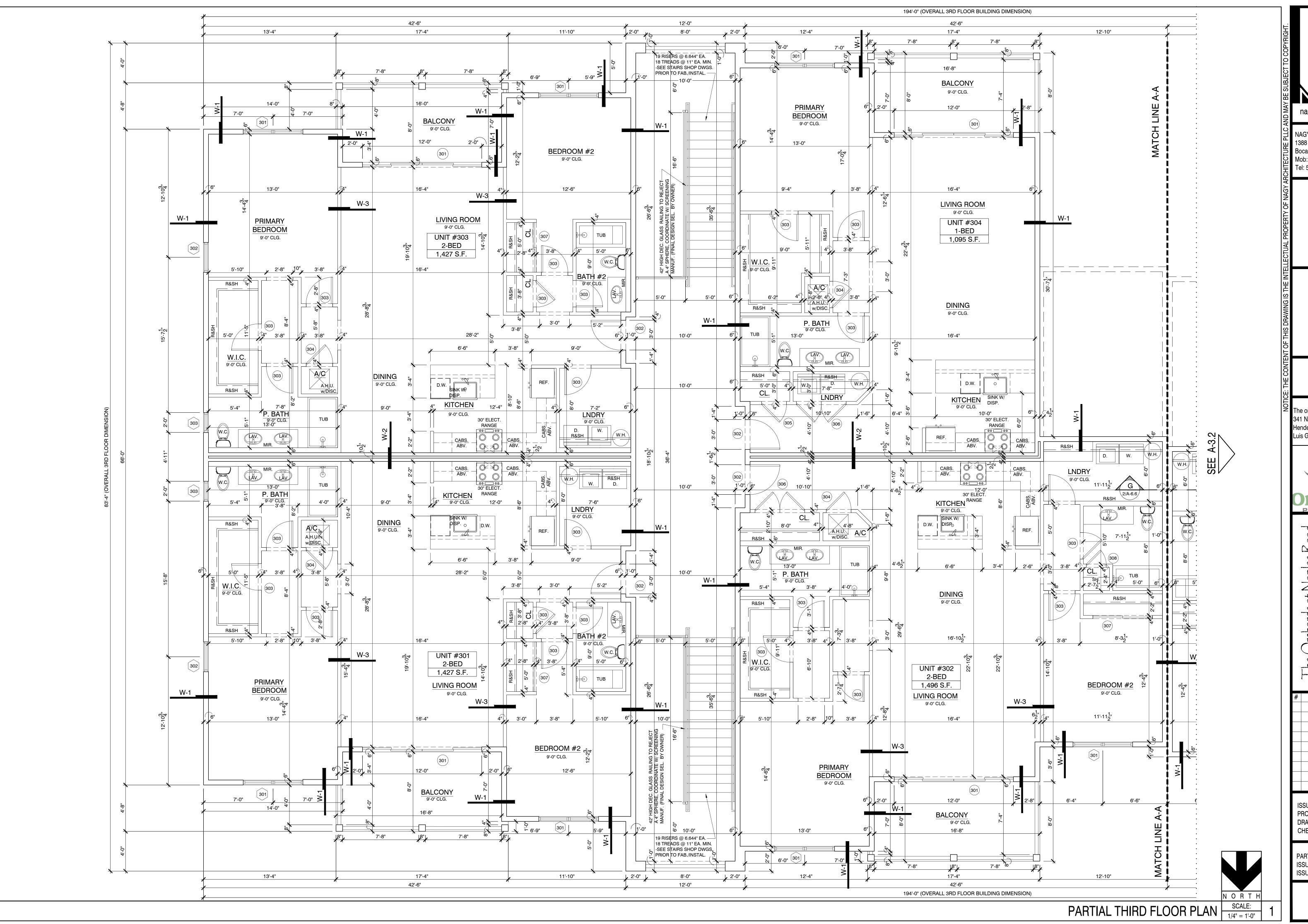


REVISIONS DATE

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.

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



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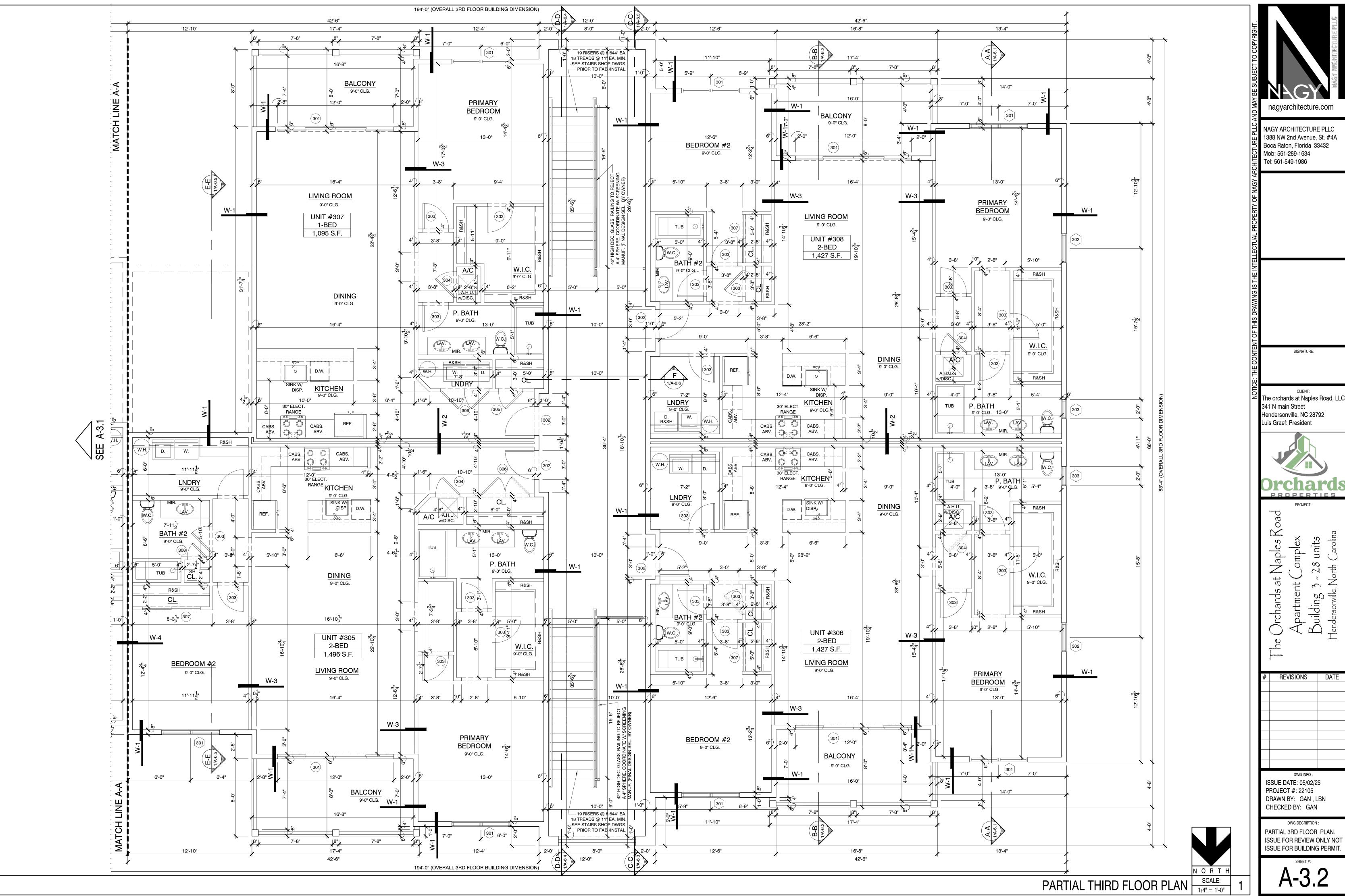
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PARTIAL 3RD FLOOR PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT

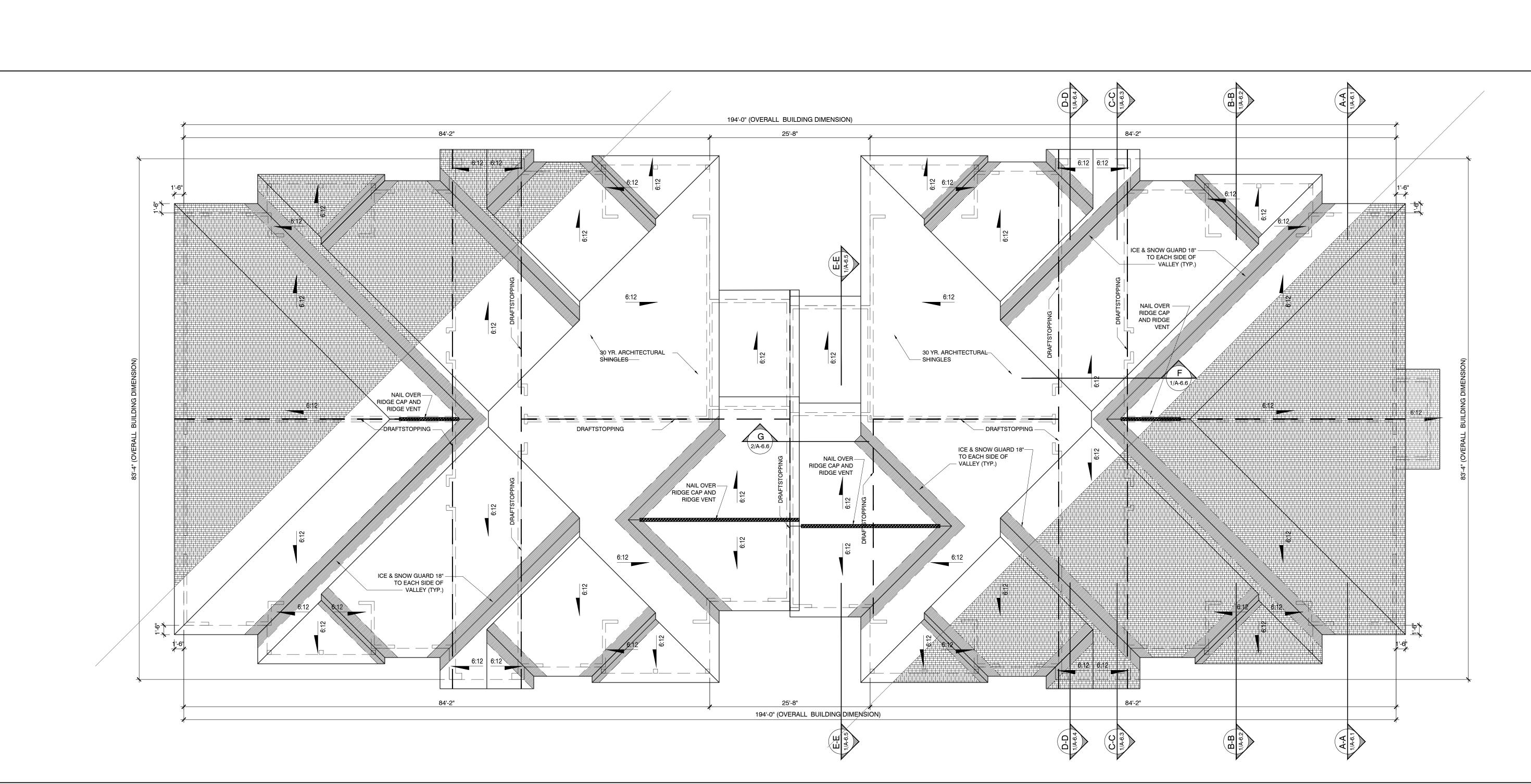


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The orchards at Naples Road, LLC



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rchards at Naples

REVISIONS DATE

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ROOF PLAN. ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.

ROOF PLAN

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

EXTERIOR FINISHES

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

2 COMPOSITE LAP PANEL SIDING - MANUFACTURER - LP SMARTSIDE. - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)

PRIOR TO PLACING ORDER FOR THE MATERIAL.

- 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

- 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 ORDER FOR THE MATERIALS.

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.

- 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)

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

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

14 FASCIA BOARD - BREAK METAL FASCIA - VERIFY WITH OWNER. - 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.

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.

Mob: 561-289-1634 Tel: 561-549-1986



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SIGNATURE:

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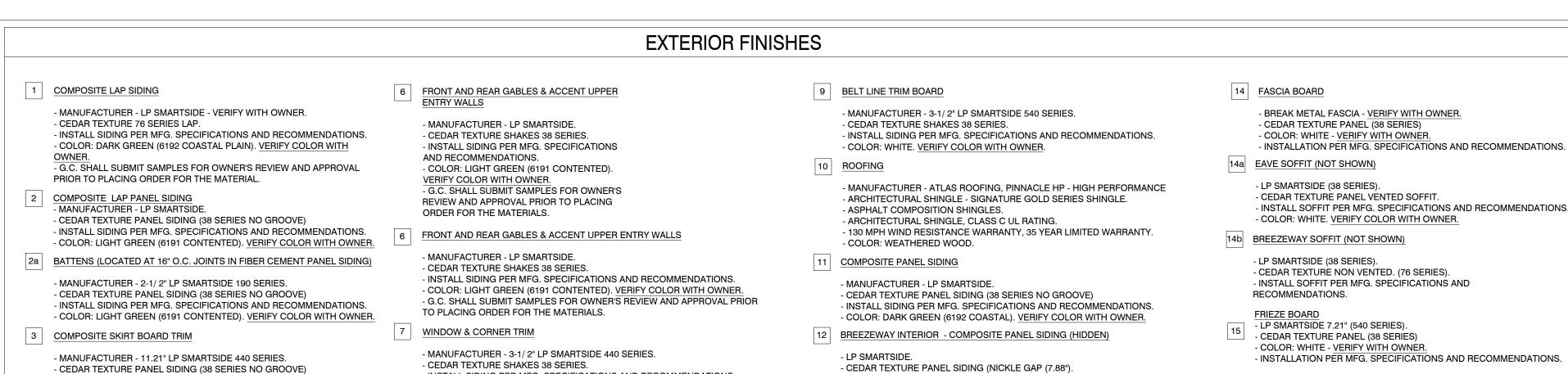
PROPERTIES

Naples 28 at rchards

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.



- 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

- COLOR: WHITE. VERIFY COLOR WITH OWNER.

- MANUFACTURER - NICHIHA BRICK SERIES.

- COLOR AND STYLE - PLYMOUTH BRICK.

ORDER FOR THE MATERIALS.

8 COMPOSITE CLADDING

- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

- COLOR: WHITE. VERIFY COLOR WITH OWNER.

- COLOR: PAINT WHITE TO MATCH WINDOW TRIMS

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

4 42" HIGH ALUM. GUARDRAIL & BALUSTERS

5 BALCONY COLUMNS

- 6X6 PT WOOD COLUMS.

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.



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

- COLOR: LIGHT GREEN - VERIFY WITH OWNER.

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

13 "Z" FLASHING

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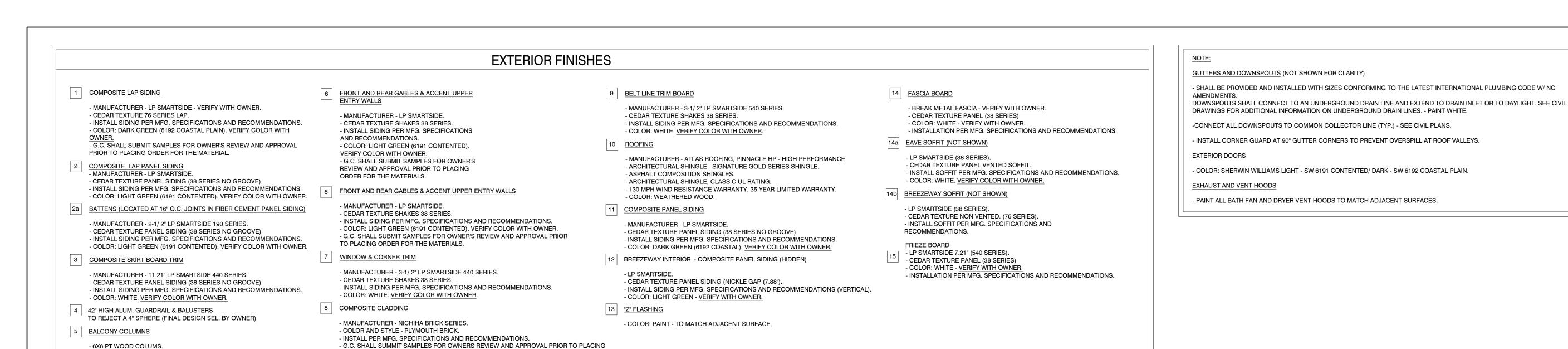
at Naples

REVISIONS

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

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- COLOR: PAINT WHITE TO MATCH WINDOW TRIMS

ORDER FOR THE MATERIALS.



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SIGNATUR

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Orchards

PROJECT:

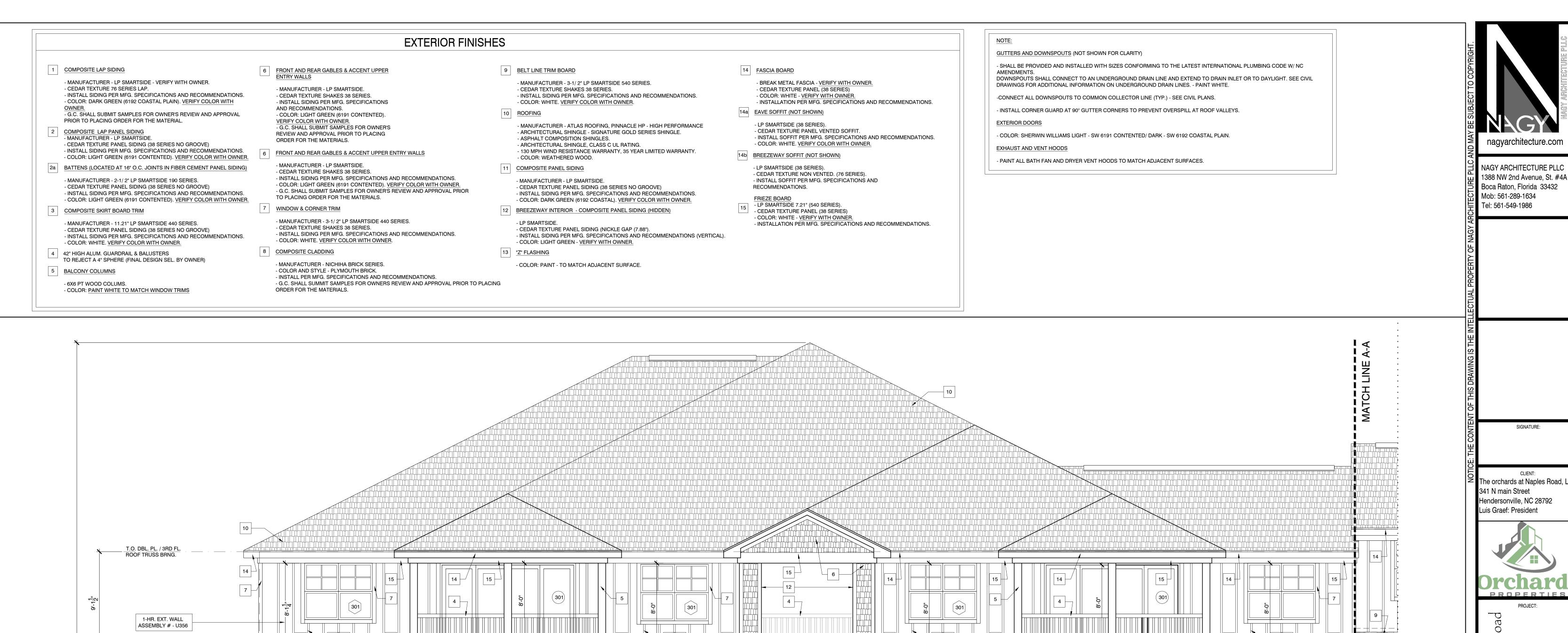
Orchards at Naples Roa Apartment Complex Building 3-28 units

REVISIONS DATE

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

DWG DECRIPTION :
RIGHT SIDE ELEVATION
ISSUE FOR REVIEW ONLY NOT
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A-5.3



3

3

3

13

201

101

T.O. SUB FL./ 3RD FL.

1-HR. EXT. WALL ASSEMBLY # - U356

10 7

8

T.O. DBL. PL. / 3RD FL. FLOOR TRUSS BRNG.

T.O. SUB FL./ 2ND FL.

T.O. DBL. PL. / 2ND FL. FLOOR TRUSS BRNG.

T.O. SUB FL./ 1ST FL.

T.O. DBL. PL. / 1ST FL. FLOOR TRUSS BRNG.

1-HR. EXT. WALL ASSEMBLY # - U356

1-HR. EXT. WALL ASSEMBLY # - U356

The orchards at Naples Road, LL0 341 N main Street Hendersonville, NC 28792 Luis Graef: President PROPERTIES Naple at REVISIONS ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN, LBN CHECKED BY: GAN DWG DECRIPTION: PARTIAL REAR ELEVATION ISSUE FOR REVIEW ONLY NOT ISSUE FOR BUILDING PERMIT.

201

101

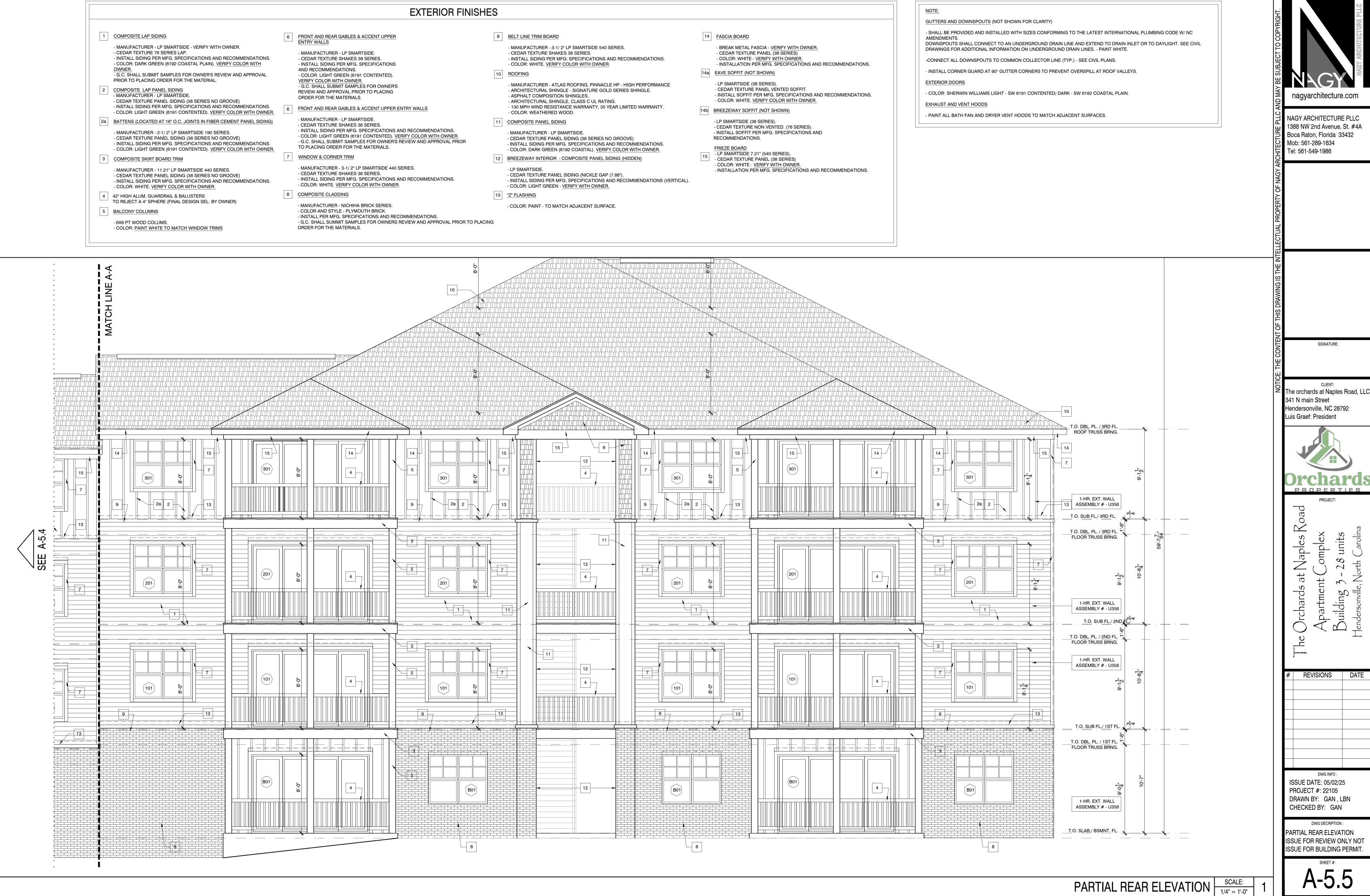
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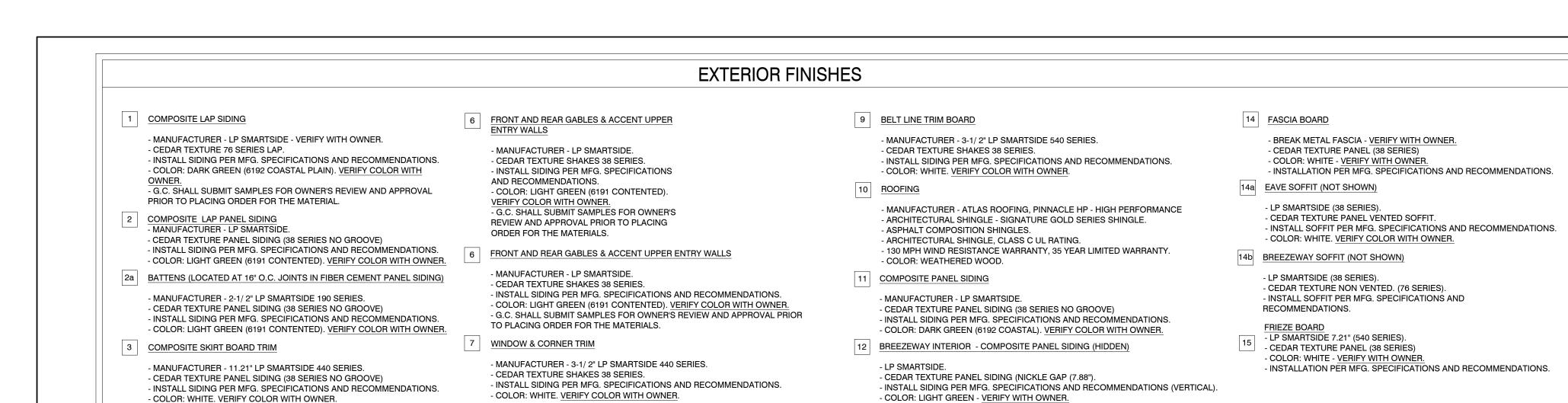
PARTIAL REAR ELEVATION

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SIGNATURE:

28





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

- COLOR: PAINT - TO MATCH ADJACENT SURFACE.

8 COMPOSITE CLADDING

T.O. SLAB./ BSMNT. FL.

- MANUFACTURER - NICHIHA BRICK SERIES.

- INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

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

- COLOR AND STYLE - PLYMOUTH BRICK.

ORDER FOR THE MATERIALS.

4 42" HIGH ALUM. GUARDRAIL & BALUSTERS

5 BALCONY COLUMNS

- 6X6 PT WOOD COLUMS.

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

- COLOR: PAINT WHITE TO MATCH WINDOW TRIMS

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.

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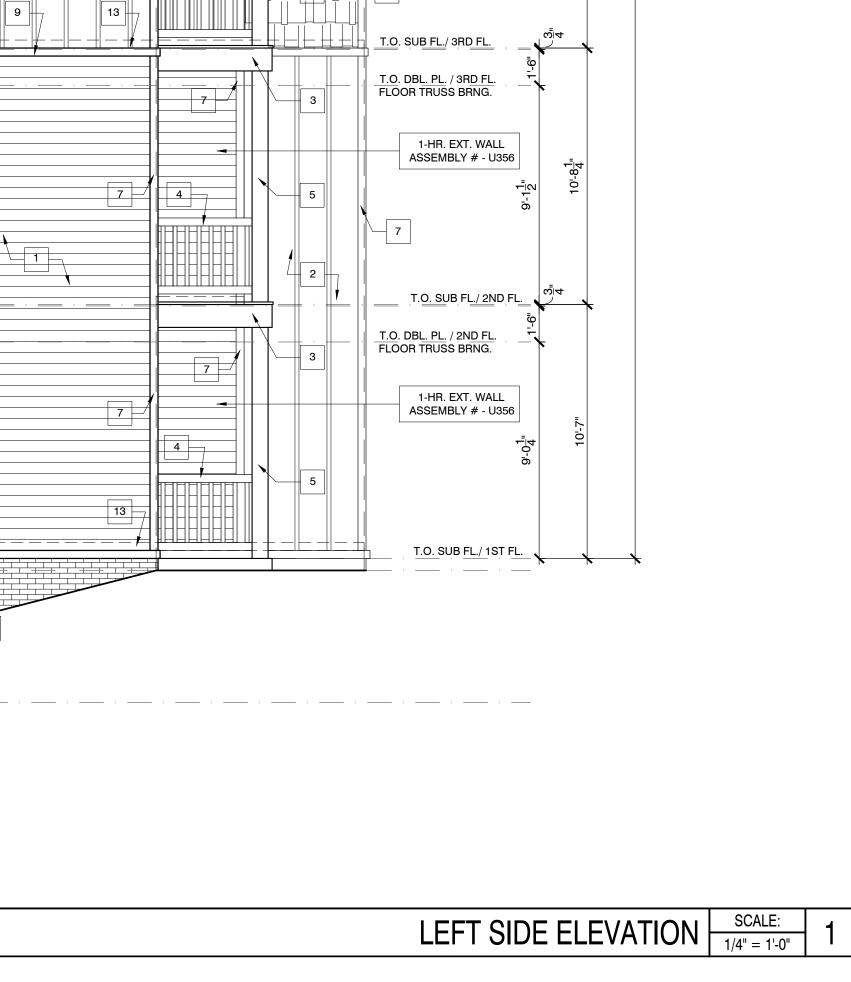
PROPERTIES PROJECT: Roa

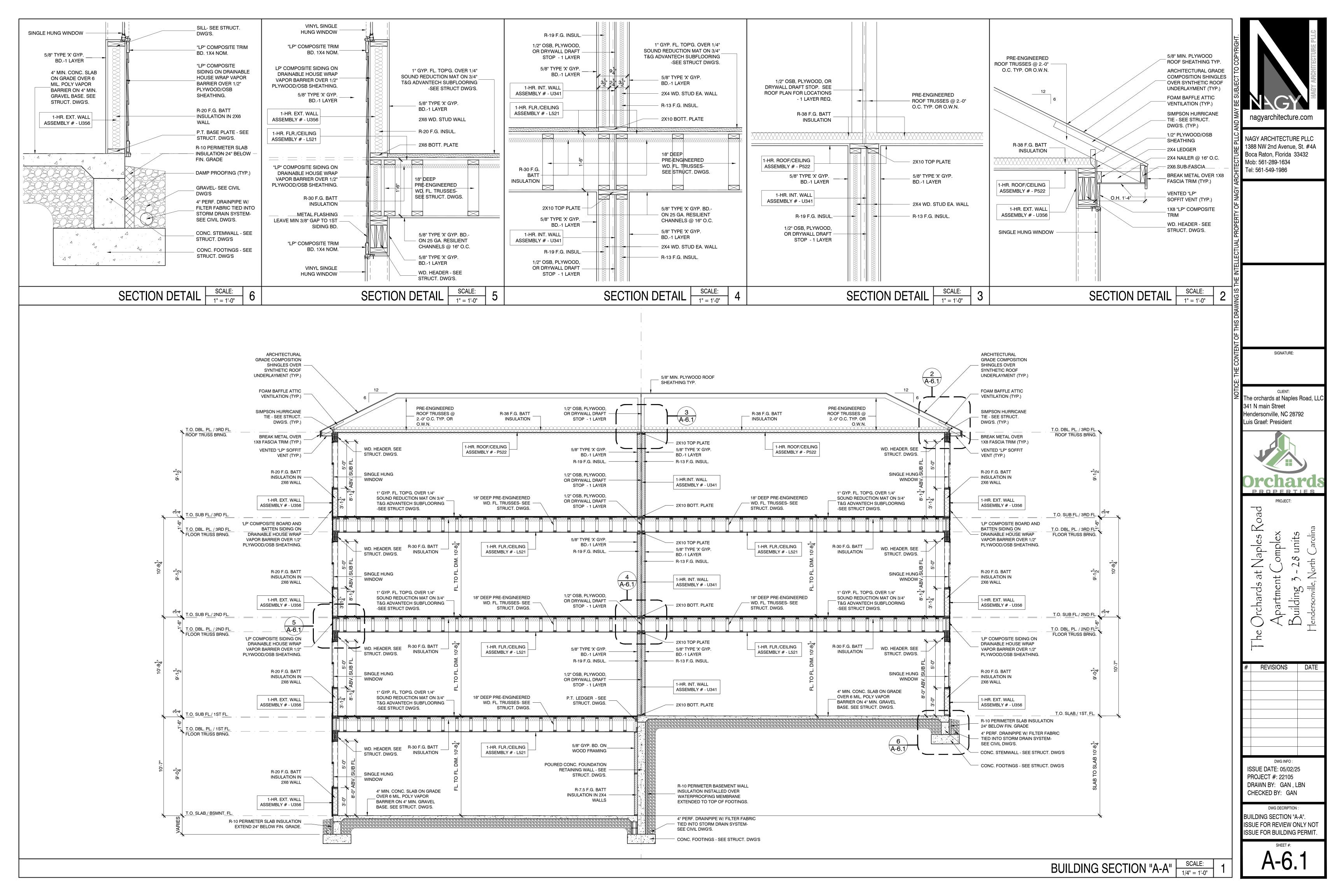
at Naples | 28 Apartment (rchards Building

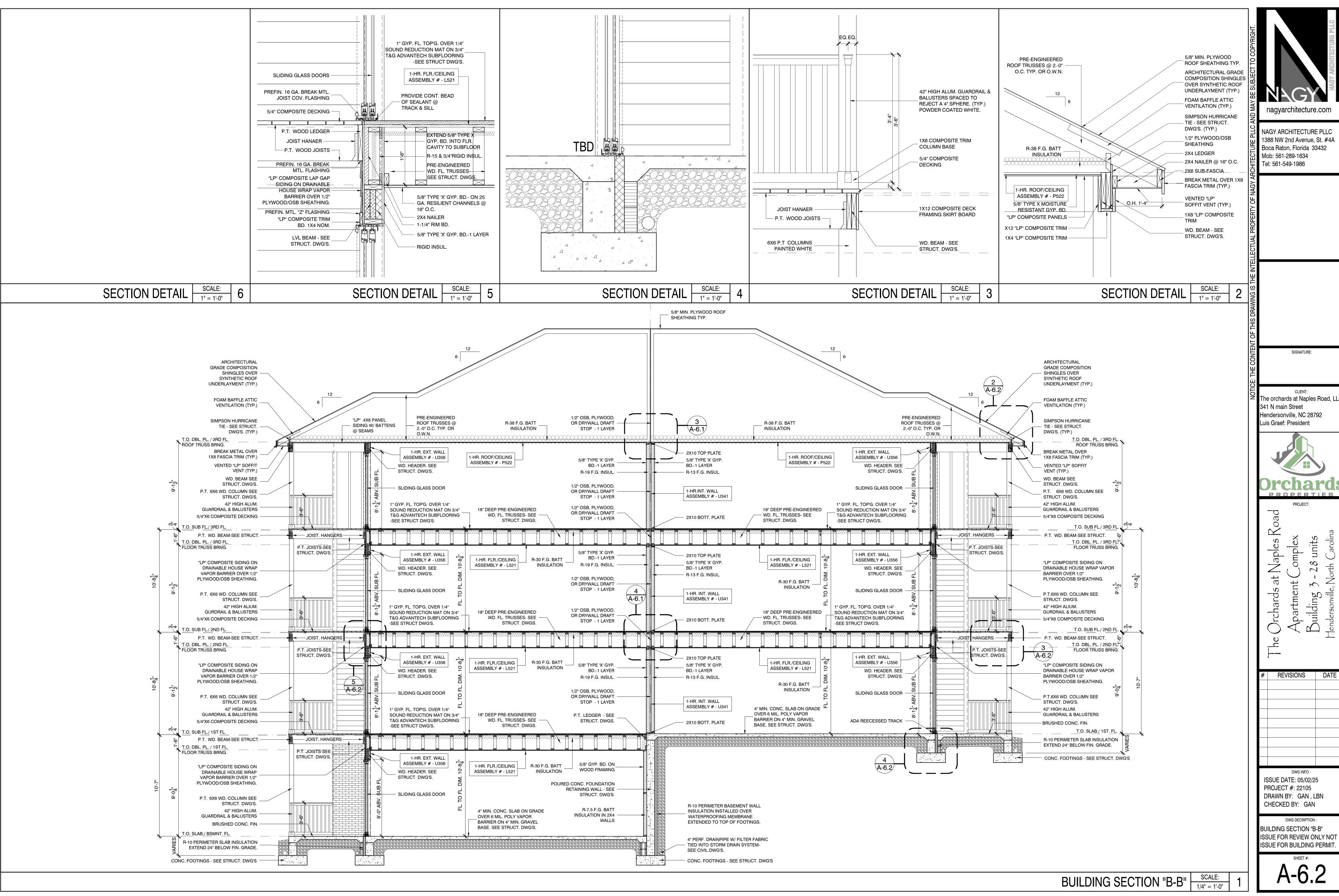
REVISIONS

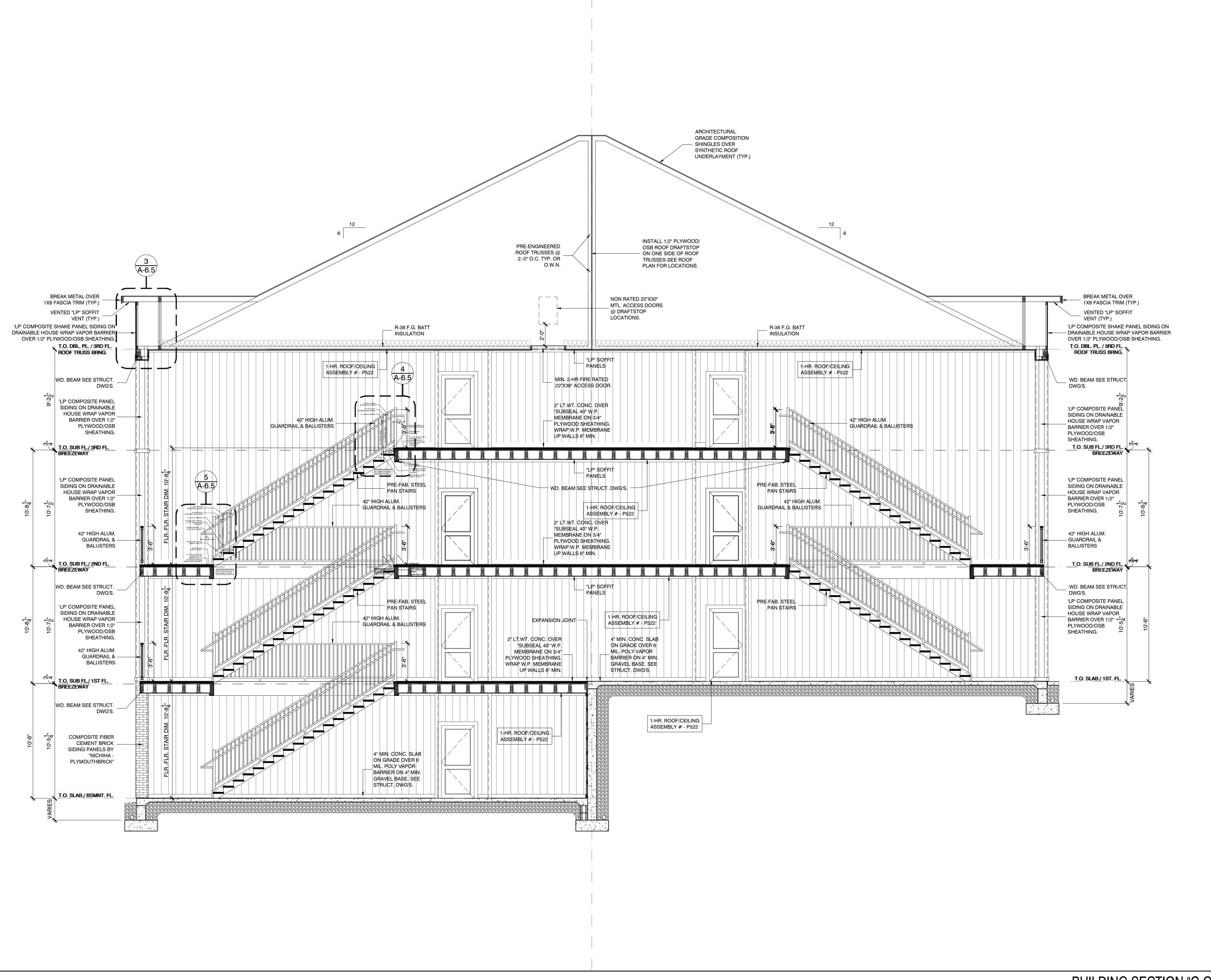
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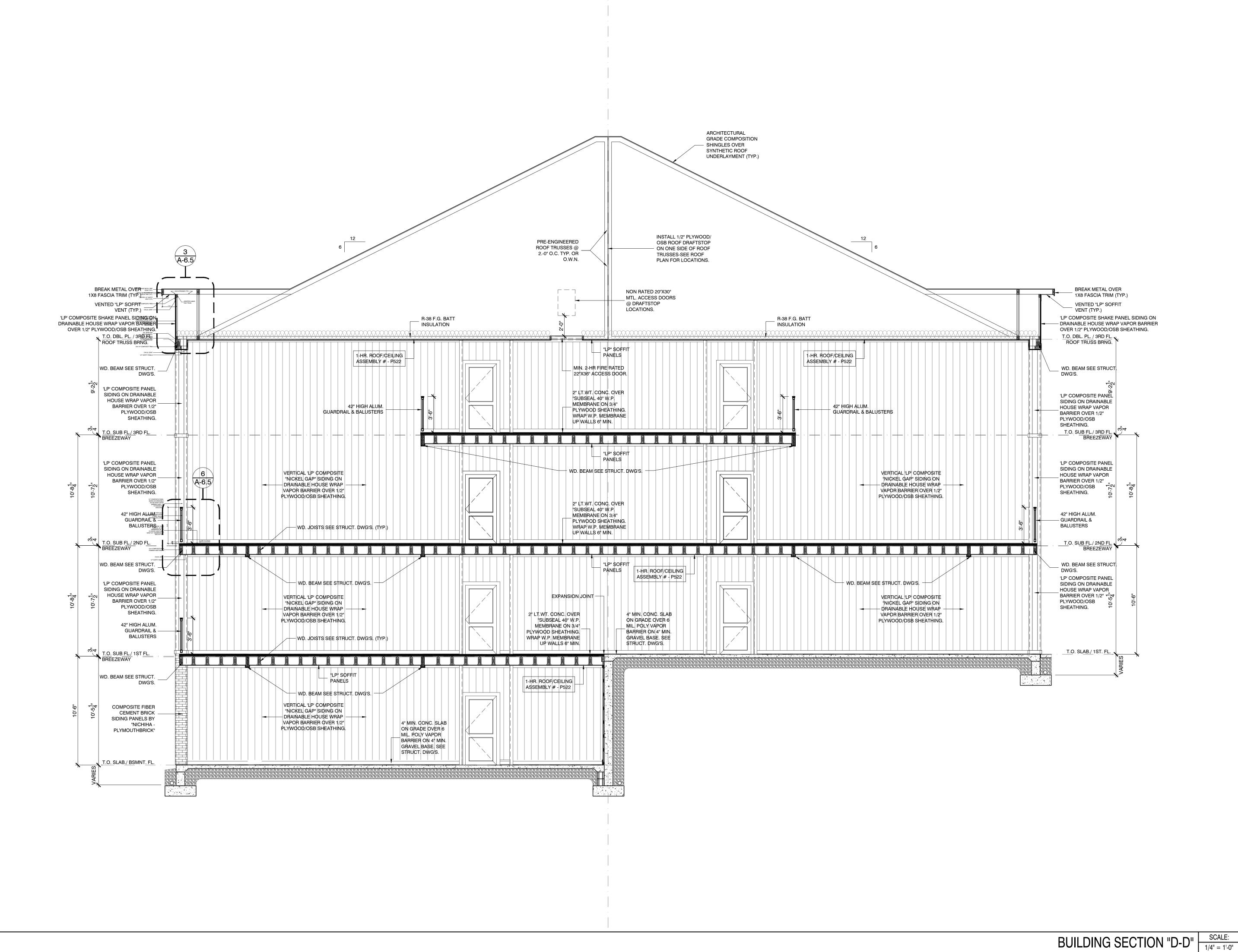


PROPERTIES

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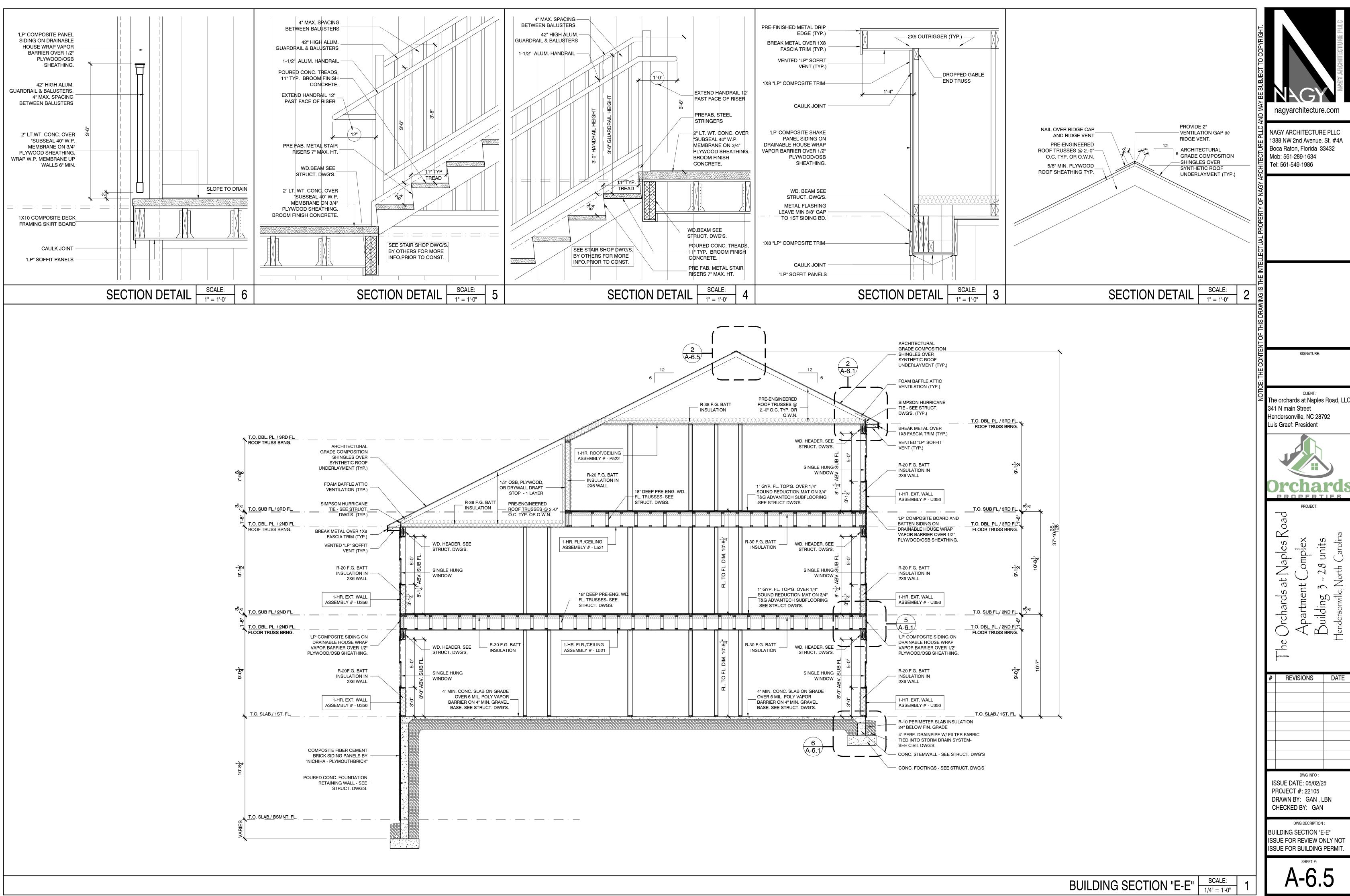
PROPERTIES PROJECT:

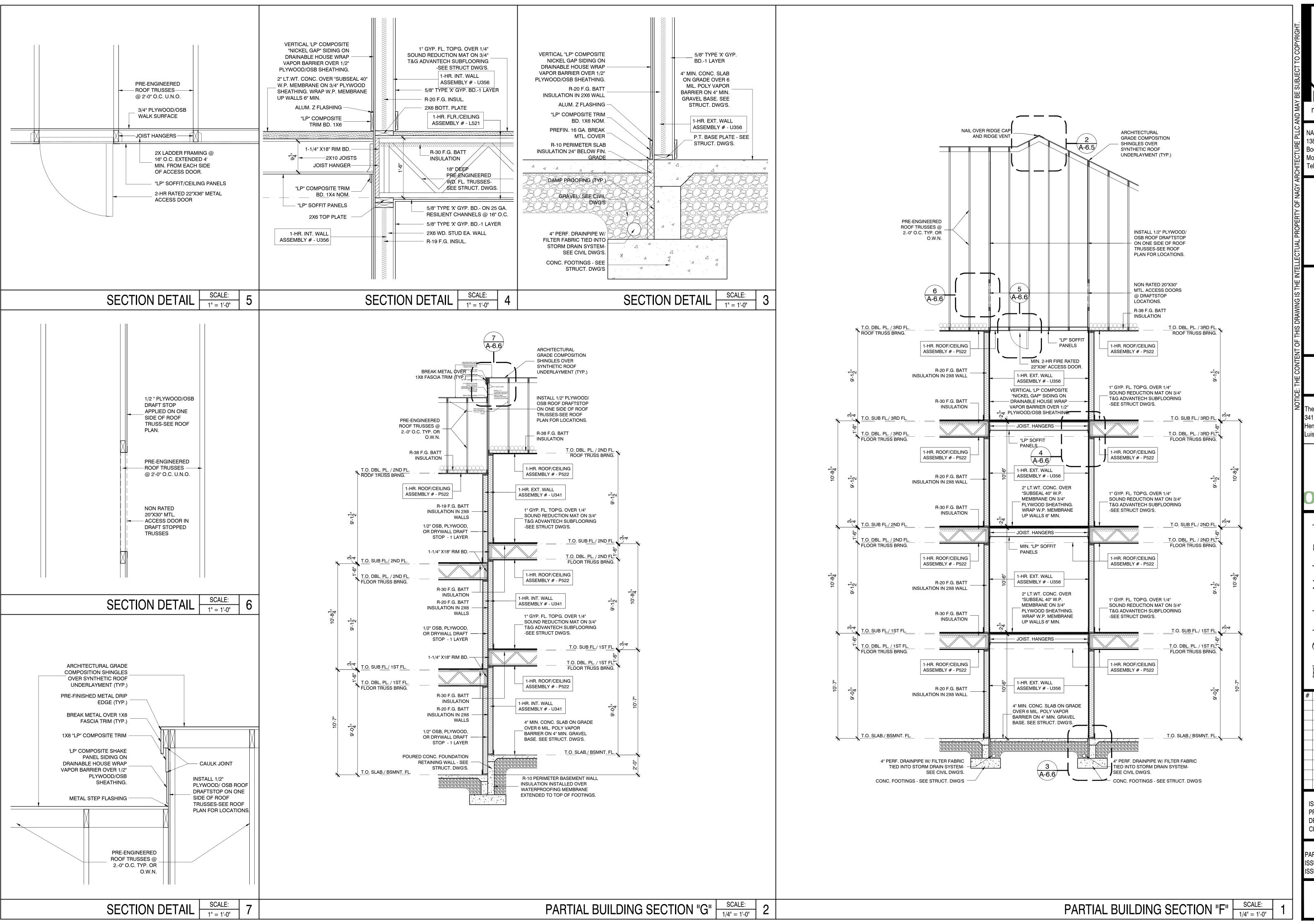
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ISSUE DATE: 05/02/25 PROJECT #: 22105 DRAWN BY: GAN , LBN CHECKED BY: GAN

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





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

SIGNATURE:



PROPERTIES
PROJECT:
P

Conchards at Naples Roa Apartment Complex

Building 3-28 units

REVISIONS DATE

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

DWG DECRIPTION:
PARTIAL BLG. SECTION F & G
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A-6.6

STRUCTURAL ABBREVIATIONS ABBREV. DEFINITION ABBREV. DEFINITION ADDNL additional HORZ horizonta AFF above finished floor inner face ALT alternate interior architectural B, BOT bottom of xxx BAL. BB balance latera bond beam pounds BCX bottom chord extension left end brick ledge long leg horizont BLDG building long leg outstandin BLW below long leg vertical Iongitudinal BRG BRK bearing masonry MAX brick maximur BTWN mechanical between const., control joint MFR manufacture CLR CMU conc masonry unit MTL metal COL CONC column NOM nominal concrete OC, O/C on center CONN connection outer face, opp. face construction opposite hand CONT CTR continuous OPNG center deformed bar anchor precas DET,DTL detail plate DIM DWGS dimension right end drawings DWL REINF reinforceme each REQD required each end retaining SOG each face slab on grade effective slip critical expansion join schedule EL.ELEV elevation SECT section EOC edge of concrete edae of deck EOM edge of masonry STFNR stiffener edge of slab steel each side SUPPL supplier each way EXIST existing top of xxx EXP expansion top chord extension EXT exterior, extensior THK thick, thickness Foot-Kips transverse FL, FLR typical FOB face of brick unless noted otherwise FOM face of masonry VERT vertical FOS face of stud verify in field full penetration wide, width foot, feet welded wire fabric FTG footing general horizontal each face horizontal inner face

1.0 GENERAL NOTES:

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE.THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS. TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER
- ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED. SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS
- LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION IS THE CONTRACTORS SOLE RESPONSIBILITY AND SHALL NOT EXCEED THE SAFE LOAD - CARRYING CAPACITY INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING
- ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS
- SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL, AND SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE CONTRACTORS APPROVAL STAMP, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED. NO EXCEPTIONS. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS.THE
- ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW. CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. ALL SUBMITTALS INCLUDING CONCRETE MIX DESIGNS, CMU SPECS, ETC. MUST BE DATED AND NO MORE THAN ONE (1)
- SUBMIT SHOP DRAWINGS IN THE FORM OF THREE PRINTS.IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR SHOP DRAWING REVIEW AND RETURN TIME, A MINIMUM OF FIFTEEN (15) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE.AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW: CONCRETE MIX DESIGN(S)
- REINFORCING STEEL SHOP DRAWINGS INCLUDING FLEVATED SLABS PRE-MANUFACTURED WOOD SYSTEM/TRUSS SHOP DRAWINGS WITH CALCULATIONS. OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
- UNLESS OTHERWISE INDICATED, ALL ITEMS NOTED TO BE DEMOLISHED SHALL BECOME THE
- CONTRACTOR'S PROPERTY AND BE REMOVED FROM THE SITE CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY
- ADVERSELY AFFECT THE WORK OR COST THEREOF . THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY
- EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR
- FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIRE RATING REQUIREMENTS. MATERIALS AND METHODS.
- THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING, OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS NOT RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION. AND THE STRUCTURAL ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS
- ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS. SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER, CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED WORK MAY PROCEED.
- . IF THE CONTRACTOR CANNOT CONSTRUCT ANY PORTION OF THE WORK IDENTIFIED IN THE DRAWINGS IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS. THEN THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK, WORK THAT DOES NOT COMPLY WITH THE DRAWINGS MAY REQUIRE REMOVAL, TESTING, OR ENGINEERING EVALUATION AT THE CONTRACTOR'S EXPENSE.
- 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP, FABRICATION, OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.

2.0 DESIGN CRITERIA NOTES:

COLD - FORMED METAL

APARTMENT/CORRIDOR.

PARTITION ALLOWANCE

BALCONY..

- THE PRIMARY DESIGN STANDARDS AND/OR CRITERIA INCLUDE BUT NOT LIMITED TO THE FOLLOWING: BLDG CODE (N.C.B.C.2018, AS AMENDED, ASCE 7-10) GENERA CONCRETI STRUCTURAL STEEL AISC 341 STEEL JOISTS / GIRDERS SJI METAL DECK
- DESIGN GRAVITY SUPER IMPOSED DEAD LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS (SELF WEIGHT OF STRUCTURE IS NOT INCLUDED): 10 PSF MIN 20 PSF MAX. FLOORS - TYPICAL 15 PSF

NAS

DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS: SLAB ON GRADE.. ..200 PSF ROOF, TYPICAL... ..20 PSF MIN.

40 PSF

...60 PSF

+/- 0.18

+16.0

- FLOOR LIVE LOAD REDUCTION PER N.C.B.C. HAS BEEN UTILIZED. ROOF LIVE LOAD REDUCTION PER N.C.B.C HAS BEEN UTILIZED.
- DESIGN LATERAL LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
- WIND LOADS PER ASCE7-10 BASIC WIND SPEED (3 SECOND GUST) 115 MPH RISK CATEGORY WIND EXPOSURE
- INTERNAL PRESSURE COEFFICIENT "GCpi" COMPONENTS & CLADDING PRESSURES (PSF)

	TRIBUTARY AREA (FT²)						
	ZONE	A ≤ 10	A = 50	A≥100			
WALLS	ZONE 4 (-)	-29.9	-27.0	-25.8			
WALLS	ZONE 5 (-)	-36.9	-31.2	-28.7			
	ZONE 4&5(+)	+27.6	+24.7	+23.4			
	ZONE 1 (-)	-34.6	-31.3	-29.9			
ROOF	ZONE 2 (-)	-41.6	-35.1	-32.2			
	ZONE 3 (-)	-72.0	-57.3	-50.9			

* CORNER & EDGE ZONES SHALL EXTEND 10'-8"FROM BUILDING EDGES. * "+" INDICATES POSITIVE AND "-" NEGATIVE PRESSURE (SUCTION)

NET ROOF SUCTION

WING SEISMIC

FORCE RESISTING SYSTEM

ALL ZONES (+) +16.0

WING MAIN WIND FORCE RESISTING SYSTEM WIND BASE SHEAR "Vo"	NORTH/SOUTH LIGHT FRAME SHEAR WALLS 148 KIPS	EAST/WEST LIGHT FRAME SHEAR WALLS 55 KIPS
SEISMIC LOADS PER N.C.B.C. 2018: SITE CLASS SHORT PERIOD DESIGN SPECTRAL RESPONSE "Sds" 1-SECOND PERIOD DESIGN SPECTRAL RESPONSE "Sd1" SEISMIC USE GROUP IMPORTANCE FACTOR "Ie" SEISMIC DESIGN CATEGORY		D (ASSUMED) 0.308g 0.169g II 1.0 C

SHEAR WALLS SHEAR WALLS DESIGN SNOW LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

DRIFTING SNOW LOADS FER ASCE 1-10. NOINE WI	ILICE FY IS LESS THAN 10 FSF
50 YEAR GROUND SNOW LOAD "Pg"	15 PSF
EXPOSURE FACTOR "Ce"	1.0
THERMAL FACTOR "Ct"	1.0
IMPORTANCE CATEGORY CLASSIFICATION	II
IMPORTANCE FACTOR "Is"	1.0
Pf	10.5 PSF (ASCE 7-05, EQ. 7-1)
NET FLAT ROOF SNOW LOAD "Pf"	10.5 PSF

NORTH/SOUTH

LIGHT FRAME

EAST/WEST

LIGHT FRAME

THIS STRUCTURE HAS BEEN DESIGNED WITH "SAFETY FACTORS" IN ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPLES OF STRUCTURAL ENGINEERING. THE FUNDAMENTAL NATURE OF THE "SAFETY FACTOR" IS TO COMPENSATE FOR UNCERTAINTIES IN THE DESIGN. FABRICATION AND ERECTION OF STRUCTURAL BUILDING COMPONENTS. IT IS INTENDED THAT "SAFETY FACTORS" BE USED SO THAT THE LOAD CARRYING CAPACITY OF THE STRUCTURE DOES NOT FALL BELOW THE DESIGN LOAD AND THAT THE BUILDING WILL PERFORM UNDER DESIGN LOAD WITHOUT DISTRESS. WHILE THE USE OF "SAFETY FACTORS" IMPLIES SOME EXCESS CAPACITY BEYOND DESIGN LOAD, SUCH EXCESS CAPACITY CANNOT BE ADEQUATELY PREDICTED AND SHALL NOT BE RELIED UPON.

BUILDING SHALL NOT BE USED AS AN EMERGENCY SHELTER.

- 2018 NORTH CAROLINA EXISTING BUILDING CODE REFERENCES PER CHAPTER 34, EXISTING STRUCTURES, SECTION 3401.5 ALTERATIONS. BUILDING ALTERATIONS SHALL COMPLY WITH
- SECTION 403 OF THE 2015 INTERNATIONAL EXISTING BUILDING CODE: PROPOSED ALTERATION SHALL BE SLICH THAT THE EXISTING BUILDING OR STRUCTURE WILL BE NO LESS CONFORMING TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE
- THAN THE BUILDING PRIOR TO THE ALTERATIONS. B. SECTION 403.3: THE EXISTING GRAVITY LOAD CARRYING STRUCTURAL ELEMENTS DUE TO ALTERATIONS OF THE STRUCTURE SHALL NOT CAUSE ANY INCREASE OF MORE THAN 5
- PERCENT TO EXISTING STRUCTURAL ELEMENTS, THEREFORE ADDITIONAL STRENGTHENING OF GRAVITY LOAD CARRYING ELEMENT SHALL NOT BE REQUIRED. SECTION 403.4: ANY ALTERATIONS TO EXISTING STRUCTURAL ELEMENTS CARRYING LATERAL LOADS SHALL
- NOT DECREASE THE CAPACITY OF ANY EXISTING LATERAL LOAD CARRYING STRUCTURAL ELEMENT. SECTION 403.6:
- THE EXISTING BUILDING'S EXTERIOR MASONRY WALL ARE REINFORCED SUCH THAT NO EVALUATION OF THE EXISTING WALL ANCHORAGE AT THE ROOF LINE IS REQUIRED TO SEISMIC FORCES.
- EXISTING MASONRY PARAPETS ARE REINFORCED SUCH THAT NO ADDITIONAL BRACES ARE REQUIRED TO RESIST OUT OF PLANE SEISMIC FORCES.

3.0 DEFERRED SUBMITTAL NOTES:

- SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO
- IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR SHOP DRAWING REVIEW AND RETURN TIME, A MINIMUM OF FIFTEEN (15) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE.
- ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL, AND SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE CONTRACTORS APPROVAL STAMP, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED. NO EXCEPTIONS
- 4. ALL SHOP DRAWINGS AND CALCULATIONS FOR DELEGATED DESIGN REQUIRING AN ENGINEER'S SEAL SHALL BE SEALED PRIOR TO SUBMISSION FOR REVIEW. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE DELEGATED ENGINEER'S SEAL, THEY WILL NOT BE REVIEWED AND WILL BE
- WHERE NOTED SEALED DRAWINGS OR CALCULATIONS ARE REQUIRED TO BE SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE PROJECT STATE, NOTE THAT PLACEMENT OR LAYOUT PLANS FOR TRUSSES AND JOISTS DO NOT REQUIRE ENGINEERS SEAL
- THE ENGINEER OR RECORD'S (EOR) REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS.THE EOR REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW. CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. ALL SUBMITTALS INCLUDING CONCRETE MIX DESIGNS, CMU SPECS, ETC. MUST BE DATED AND NO MORE THAN ONE (1)
- AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:.
- CONCRETE MIX DESIGN(S). B. REINFORCING STEEL SHOP DRAWINGS PRE-MANUFACTURED WOOD SYSTEM/TRUSS SHOP DRAWINGS WITH CALCULATIONS. OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR
- THE SEPARATE NOTES CONTAINED HEREIN. 8. ANY SHOP DRAWINGS WITH LANGUAGE LIMITING REVIEWER RESPONSES SUCH AS BUT NOT LIMITED
- TO THE FOLLOWING WILL NOT BE REVIEWED AND WILL BE RETURNED. NO EXCEPTIONS. "RESPONSES SUCH AS "GC TO VERIFY" OR "ARCH TO VERIFY" ARE NOT ACCEPTABLE
- 9. SHOP DRAWINGS SHALL NOT BE USED AS RFI'S AND ARE TO BE CONSIDERED COMPLETELY

CLOUDS MARKED IN MANNER WILL BE CONSIDERED NOT ADDRESSED"

4.0 SITE PREPARATION NOTES:

SEPARATE SUBMITTALS.

WITH ASTM D - 698

- WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS EXCAVATE A MINIMUM OF 3' OF EXISTING SOIL REMOVE ALL ORGANICS PAVEMENT ROOTS. DEBRIS AND OTHERWISE
- THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER / TESTING AGENCY.
- PROOF-ROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK.REMOVE ALL SOILS WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE
- GEOTECHNICAL ENGINEER/TESTING AGENCY 4. FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8 INCH LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE
- ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS MATERIAL WITH NOT MORE THAN 20% BY WEIGHT PASSING A NO. 200 SIEVE (CLASSIFIED AS SC. SM. SP OR BETTER IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM) AND WITH A PLASTICITY INDEX NOT EXCEEDING 6%
- PROVIDE FIELD DENSITY TESTS FOR EACH 3,000 S.F. OF BUILDING AREA FOR EACH LIFT OF

5.0 FOUNDATION NOTES: (TYP)

- 1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY BLE CORP, DATED 2 ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACL 301 "SPECIFICATION"
- FOR STRUCTURAL CONCRETE BUILDINGS " HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305.COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED.
- SEE "CAST-IN-PLACE CONCRETE NOTES" FOR MINIMUM CONCRETE COVER REQUIREMENTS AND CONCRETE ELEMENT PROPERTIES
- ALL REINFORCING MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED LTS AT SPLICES UNLESS OTHERWISE NOTED SEE EMBEDMENT & LAP SPLICE
- NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION. PRIOR TO COMMENCING ANY FOUNDATION WORK, THE CONTRACTOR IS SOLELY RESPONSIBLE
- FOR COORDINATING WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. STRUCTURAL ENGINEER MUST BE NOTIFIED IF FOOTINGS ARE LOWERED MORE THAN 2 FEET RELATIVE TO THAT WHICH IS SHOWN
- UNLESS OTHERWISE NOTED, THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON COLUMN CENTERLINES.
- ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE DRAINING GRANULAR BACKFILL FULL HEIGHT OF WALL. PROVIDE VERTICAL CONTROL JOINTS NOT TO EXCEED 25 FEET O.C NOR 3 TIMES THE WALL HEIGHT. MAXIMUM LENGTH OF WALL POURS SHALL NOT EXCEED 50 FEET IN ANY SINGLE POUR
- BOTTOM OF EXTERIOR FOUNDATIONS SHALL BEAR AT A MINIMUM DEPTH OF 1'-6" BELOW FINAL
- GRADE FOR FROST PROTECTION. ALL FOOTINGS HAVE BEEN DESIGNED BASED UPON AN ASSUMED SOIL BEARING PRESSURE OF 2500 PSF. ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY PRIOR TO POURING FOUNDATION CONCRETE.
- TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE. STRUCTURAL ENGINEER MUST BE NOTIFIED IF FOOTINGS ARE LOWERED MORE THAN 2 FEET RELATIVE TO THAT WHICH IS SHOWN.
- WHERE FOOTING EXCAVATIONS MUST REMAIN OPEN OVERNIGHT OR IF RAINFALL BECOMES IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2" TO 4" THICK MUD MAT OF UNREINFORCED LEAN (fc = 2000psi) CONCRETE SHALL BE PLACED ON THE BEARING SOILS BEFORE PLACEMENT OF THE FOOTING REINFORCING

6.0 SLAB ON GRADE NOTES:

- PROVIDE CONCRETE SLABS OVER A VAPOR BARRIER PER ARCHITECT DRAWINGS AND 4" OF POROUS FILL. CONCRETE SLABS SHALL HAVE A MAXIMUM SLUMP OF 5 INCHES, USING TYPE 1
- ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH
- ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL WITH 100% PASSING A 1-1/2" SIEVE AND NO MORE THAN 5% PASSING A NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY PER ASTM D-698.
- SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING REMOVE ALL DEBRIS FROM THE SLAB JOINTS. THEN FILL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS FOLLOWS: 6" SLABS - FILL WITH EPOXY RESIN OTHER SLABS - FILL WITH FIELD MOLDED OR ELASTOMERIC SEALAN
- UNLESS OTHERWISE APPROVED, ALL SLAB REINFORCEMENT SHALL BE SECURED INTO POSITION WITH PLASTIC TIPPED OR STAINLESS STEEL BAR SUPPORTS. BRICK OR OTHER MASONRY ARE NOT PERMITTED FOR USE AS SUPPORTS.
- WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS. DIMENSIONS. ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS REINFORCED WITH 6X6 -W1.4XW1.4 WWF UNLESS OTHERWISE NOTED.
- SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/- 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-260.
- SLABS NOT PERMANENTLY EXPOSED TO WEATHER SHALL NOT BE AIR ENTRAINED AND ENTRAPPED AIR SHALL BE LIMITED TO 3%.
- 9. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305 COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306
- 10. IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE CONCRETE SLABS IN AN ALTERNATING LANE (OR CHECKERBOARD) PATTERN, THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR IS RECOMMENDED TO BE LESS THAN 100 FEET. THE MAXIMUM SPACING OF CONTROL JOINTS SHALL BE 3 TIMES THE SLAB THICKNESS IN FEET. (EXAMPLE 4" SLAB X 3 = 12'-0" CJ SPACING TYPICAL)
- . THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER
- 2. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN
- 13. THE FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 301, TYPE A.

7.0 POST-INSTALLED ANCHORS:

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD (E.O.R.) PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S). PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY THE ANCHOR'S EVALUATION REPORT (ICC-ES ESR OR IAPMO-UES CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL

TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND

- AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099. FOR ANCHORING INTO CRACKED AND UN-CRACKED CONCRETE
 - MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND / OR ICC-ES AC193 FOR CRACKED AND UN-CRACKED CONCRETE. PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-2713) SIMPSON STRONG-TIE "TITEN HD", "TITEN HD-RD" & "TITEN HD-CS" (ICC-ES ESR-2713)
 - SIMPSON STRONG-TIE "STAINLESS STEEL TITEN HD" (IAPMO-UES ER-493) SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712)
- ADHESIVE ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI355.4 AND ICC-ES AC308 FOR CRACKED AND UN-CRACKED CONCRETE. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS. HOLES SHALL BE DRY AT THE TIME OF INSTALLATION, ACI355-4 TEMPERATURE CATEGORY 'B', ASSUMED IN DESIGN, PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL, OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS INSTALLERS ARE REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINUOUSLY INSPECTED. PRE-APPROVED PRODUCTS INCLUDE:
- THREADED ROD & REBAR AS ANCHOR ELEMENTS SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
- THREADED ROD & REBAR AS ANCHOR ELEMENTS SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
- THREADED ROD & REBAR AS ANCHOR ELEMENTS SIMPSON STRONG-TIE "AT-XP" POST INSTALLED REINFORCING BARS USING THE ACI318 DEVELOPMENT LENGTH
- PROVISION SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057) POST INSTALLED REINFORCING BARS USING THE ACI318 DEVELOPMENT LENGTH PROVISION - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
- SIMPSON STRONG-TIE CLEAN DXS DUST EXTRACTION SYSTEM IN APPROVED FOR USE WITH THE PRODUCTS LISTED ABOVE TO DRILL AND CLEAN HOLES.
- 3. FOR ANCHORING INTO GROUT-FILLED CONCRETE MASONRY UNITS. MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH
- ICC-ES AC01 (EXPANSION ANCHORS) OR ICC-ES AC106 (SCREW ANCHORS) PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)
- SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396) SIMPSON STRONG-TIE "TITEN HD" & "STAINLESS STEEL TITEN HD"
- SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716) B ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH
- (ICC-ES AC58) PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER281)
- SIMPSON STRONG-TIE "ET-HP" (IAPMO-UES ER241) 4. FOR ANCHORING INTO HOLLOW CONCRETE MASONRY UNITS MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106 FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY. PRE-APPROVED
- PRODUCTS INCLUDE: SIMPSON STRONG-TIE "STAINLESS STEEL TITEN HD" (ICC-ES ESR-1056)
- SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716) B. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58
- FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY USING MANUFACTURER'S RECOMMENDED SCREEN TUBES. PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
- SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281) 5. FOR ANCHORING INTO UN-REINFORCED MASONRY A. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC60 FOR PERFORMANCE IN UN-REINFORCED MASONRY CONFIGURATIONS A. B. AND C. PRE-APPROVED PRODUCTS INCLUDE:
- SIMPSON STRONG-TIE "ET-HP" (ICC-ES ER-3638) FOR ANCHORING LOW VELOCITY AND THREADED STUDS INTO CONCRETE, MASONRY AND STEEL
- POWDER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
- SIMPSON STRONG-TIE "POWDER-ACTUATED FASTENERS" (ICC-ES ESR-2138) B. GAS-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES
- AC70. PRE-APPROVED PRODUCTS INCLUDE: SIMPSON STRONG-TIE "GAS ACTUATED FASTENERS" (ICC-ES ESR-2811)

8.0 CAST-IN-PLACE CONCRETE NOTES:

SLABS-ON-GRADE

CONCRETE MIXES SHALL BE DESIGNED PER ACL 301 CHAPTER 3. USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595.AGGREGATE CONFORMING TO ASTM C-33. AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C-618,C-989 AND C-260. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C-94

3000 PSI

CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP AND UNIT WEIGHT RATIO REQUIREMENTS: FLEMENT MIN fc (28 DAYS) UNIT WEIGHT CONCRETE NOT NOTED 3000 PSI 2" TO 4" 145 PCF 2" TO 4" 145 PCF FOOTINGS 3000 PSI

*AT CONTRACTOR'S OPTION AN APPROVED ADMIXTURE MAY BE USED TO PRODUCE ELOWABLE CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 10 INCHES. THE CONTRACTOR SHALL SUBMIT TEST RESULTS OF THE PROPOSED CONCRETE MIXES ALONG WITH THE MANUFACTURER'S TECHNICAL DATA FOR APPROVAL PRIOR TO POURING CONCRETE

ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS". HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.

AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 301 TABLE 3.4.1 SHALL BE USED IN ALL

CONCRETE EXPOSED TO FREEZING AND THAWING DURING CONSTRUCTION AND/OR SERVICE

2" TO 4"

145 PCF

- 4. WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.
- WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR ANY CONCRETE SUBJECTED TO
- ALL PUMPED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.50 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER
- IN NO CASE SHALL A WATER/CEMENT RATIO EXCEED THE FOLLOWING: f'c 3000 PSI 0.60 MAX. w/c RATIO
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 U.N.O. EXCEPT THAT REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706. ALL WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AWS D1.4. EPOXY COATED
- ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185.

SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER

REINFORCING SHALL CONFORM TO ASTM A-775.

- ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS
- REINFORCING STEEL INCLUDING HOOKS AND BENDS SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT) SHALL BE LAPPED "LTS" PER EMBEDMENT AND LAP SPLICE SCHEDULE UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT
- CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS #5 BAR W31 OR D31 WIRE & SMALLER - 1 1/2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS. WALLS & JOISTS #14 AND #18 BARS #11 BAR AND SMALLER - 3/4"

BEAMS AND COLUMNS

PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS - 1 1/2" SHELLS FOLDED PLATE MEMBERS #6 BAR AND LARGER #5 BAR, W31 OR D31 WIRE AND SMALLER

CONCRETE CAST AGAINST EARTH

SHALL PASS CONTINUOUSLY THROUGH THE JOINT

STRUCTURAL ENGINEER.

- BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER AND PLACEMENT. BAR SUPPORTS SHALL BE PLASTIC TIPPED OR
- 15. ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS

16. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH DOCUMENTATION THAT ALL MATERIALS

- CONFORM TO THE QUALITY STANDARDS SPECIFIED IN THE GENERAL BUILDING CODE. IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING. PLACE CONCRETE SLABS IN AN ALTERNATING LANE PATTERN. THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS
- POUR SHALL BE LIMITED TO 80 FEET 18. FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF ITS 28 DAY COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RE-SHORING.
- CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND MAY REQUIRE ADDITIONAL REINFORCING. SUCH JOINTS SHALL BE CLEARLY DETAILED ON THE SHOP DRAWINGS AND ALL REINFORCING
- 20. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS. DRIPS. REGLETS. WASHES, MASONRY ANCHORS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND
- . REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES.WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
- 22. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR UNDERFLOOR, PERIMETER AND OTHER DRAINS AND FOR SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR THEIR ITEMS.

23. FILL SLABS, NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE REINFORCED WITH A

- MINIMUM OF 6X6-W1.4XW1.4 WWM UNLESS NOTED OTHERWISE ON OTHER DRAWINGS OR IN THE 24. REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - REINFORCING STEEL"
- STRUCTURAL ENGINEER. TACK WELDING OF ANY REINFORCING IS STRICTLY PROHIBITED. 25. ALL REINFORCING TERMINATING AT THE TOPS OF THE COLUMNS AND PILASTERS SHALL BE HOOKED,

(AWS D1.4). NO OTHER REINFORCING MAY BE WELDED WITHOUT THE APPROVAL OF THE

26. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ALL CONCRETE POURS IN ORDER TO PERMIT REINFORCING STEEL REVIEW IF REQUIRED BY THE

TRUCT



SIGNATURE:

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



PROJECT: \leq Naple

REVISIONS DATE

DWG DECRIPTION

ISSUE DATE: 09/27/24

PROJECT #: 22105

DRAWN BY:

CHECKED BY:

GENERAL NOTES

9.0 PLYWOOD/GYPBOARD SHEATHING TO WOOD NOTES:

- ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION
- ALL ROOF PANEL SHEATHING SHALL BE 7/16" (NOM.) TYPE CDX. EXP. 1 APA RATED 24/16 SHEATHING. SUITABLE EDGE SUPPORT SHALL BE PROVIDED BY USE OF PANEL CLIPS OR BLOCKING BETWEEN FRAMING, UNLESS OTHERWISE NOTED CONNECT ROOF SHEATHING WITH 6d COMMON NAILS AT 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS.
- ALL FLOOR SHEATHING SHALL BE 19/32" (NOM.) APA RATED STURD-1-FLOOR, @ 16" O.C. EXP. 1, WITH TONGUE AND GROOVE EDGE. UNLESS OTHERWISE NOTED CONNECT FLOOR SHEATHING WITH 10d COMMON NAILS SPACED 6" O/C AT SUPPORTED EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS. FIELD-GLUE USING ADHESIVES MEETING APA SPECIFICATIONS AFG-01, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL WALL PANEL SHEATHING, INCLUDING DESIGNATED SHEAR WALLS, SHALL BE 7/16" (NOM.) TYPE CDX, EXP. 1 APA RATED 24/16 SHEATHING. UNLESS OTHERWISE INDICATED, CONNECT WALL SHEATHING WITH 10d COMMON NAILS SPACED 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS. SEE SHEAR WALL SCHEDULE FOR FASTENING REQUIREMENTS.
- INSTALL ALL PLYWOOD SHEATHING WITH THE LONG DIMENSION OF THE PANEL ACROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING
- ALL NAILING SHALL BE CAREFULLY DRIVEN AND NOT OVERDRIVEN. THE USE OF PNUEMATIC NAIL GUNS MAY BE USED PROVIDED (1) NAIL IS INSTALLED FOR EVERY OVERDRIVEN NAIL (THOSE SUNK > 1/8" INTO SHEATHING). THE USE OF STAPLES IS PROHIBITED.
- ALL EXTERIOR WALLS SHALL BE SHEATHED ON BOTH FACES WITH GYP-BOARD SHEATHING (SEE ARCH. DWGS. FOR THICKNESS) AND CONNECTED WITH 5d COOLER NAILS SPACED 7" O/C AT SUPPORTED PANEL EDGES AND INTERMEDIATE SUPPORTS.
- PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES AS FOLLOWS: ROOFS AND FLOORS ONLY WHERE INDICATED ON PLAN WALLS - PER THE SHEAR WALL SCHEDULE ON SHEET S1.2.

10.0 WOOD FRAMING NOTES:

- ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALLOWABLE STRESS REQUIREMENTS OF ALL MATERIAL SHALL BE IN ACCORDANCE WITH THE U RATING AS NOTED BELOW
- ALL STUD AND WALL FRAMING SHALL BE EITHER OF THE FOLLOWING: A NO. 2 GRADE SOUTHERN YELLOW PINE (SYP)
- B. NO. 2 GRADE SPRUCE-PINE-FIR (SPF)
- ALL JOIST, RAFTER & MISC. FRAMING SHALL BE NO. 2 GRADE, SOUTHERN PINE. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O/C IN BETWEEN.
- ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS WHERE POSSIBLE ALL CLITS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WTIH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION
- THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.
- : ALL NAILING NOT OTHERWISE INDICATED SHALL BE IN ACCORDANCE WITH THE "NAILING SCHEDULE" ON SHEET S1.1. NAILING SHALL NOT BE OVERDRIVEN.
- PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS AND UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
- PROVIDE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN THE PLYWOOD DECK UNLESS OTHERWISE INDICATED.
- 9. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED. BOLTS CONNECTING WOOD MEMBERS SHALL BE PER ASTM A-307 AND BE 3/4" DIAMETER UNLESS OTHERWISE INDICATED. PROVIDE WASHERS FOR ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD SURFACES.
- 10. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
- PREFABRICATED "MICRO-LAM" LUMBER HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "TRUSS JOIST MacMILLAN CORP.", BOISE, IDAHO OR APPROVED EQUAL. MICRO-LAM MATERIAL SHALL BE 2.0E, SOUTHERN PINE. DO NOT CUT OR NOTCH MICRO-LAM MATERIAL WITHOUT THE MANUFACTURER'S APPROVAL.
- 12. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY", (TEL.800-999-5099), OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF 0.04 INCHES (PER ASTM A446, GRADE A) AND BE GALVANIZED (COATING G60).
- 13. HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF N.C.B.C. 2018.
- 14. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.

11.0 PRE-ENGINEERED WOOD TRUSS NOTES:

WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE FOLLOWING LOADS: MINIMUM GRAVITY LOADING: TOP CHORD LIVE LOAD: 20 PSF 8 PSF DEAD LOAD: 15 PSF

BOTTOM LIVE LOAD: 10 PSF DEAD LOAD: B: WIND LOADING CASE: (PER N.C.B.C. 2002, SECTION 1609.8) SEE 'DESIGN CRITERIA

TOP CHORD LOADING: ON THE SURFACE AREA P - (TOP CHORD DL X .67) NET UPLIFT: P = Pv X 1 X Kh X (GCp) WITH Gp PER BOCA FIG. 1609.8.1(2) BOTTOM CHORD LOADING: ON THE SURFACE AREA NET UPLIFT:

P - (BOTTOM CHORD DL X .67) P = Pv X 1 X Kh X (GCpi) WITH Gpi AS NOTED HEREIN . WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE

. WOOD MATERIALS SHALL BE SOUTHER PINE, DOUGLAS FIR OR LARCH AND SHALL BE KILN DRIED AND

NOTES' FOR WIND COMPONENT CRITERIA

- APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION OF THE NATIONAL FOREST PRODUCTS ASSOCIATION, THE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES OF THE TRUSS PLATE INSTITUTE AND N.C.B.C 2303.4
- USED AT 19% MAXIMUM MOISTURE CONTENT. PROVIDE GRADE NO. 2 OR AS REQUIRED TO SATISFY STRESS REQUIREMENTS. 4. CONNECTOR PLATES SHALL BE NOT LESS THAN 0.036 INCHES (20 GAUGE) IN COATED THICKNESS,
- SHALL MEET OR EXCEED ASTM GRADE A OR HIGHER AND SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A-525 (COATING G60). MINIMUM STEEL YIELD STRESS SHALL BE 33,000 PSI.
- . TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JIGGING AND PRESSING EQUIPMENT UNDER THE REQUIREMENTS IN QUALITY CONTROL STANDARD QST-88 OF THE TRUSS PLATE INSTITUTE.
- SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO DEAD, LIVE AND WIND LOADS SHALL BE CONSIDERED IN THE DESIGN. LOAD DURATION FACTORS SHALL BE PER THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
- WOOD TRUSSES SHALL BE ERECTED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S REQUIREMENTS. THIS WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED CONTRACTOR. TRUSS ERECTION BY AN INEXPERIENCED OR NON-QUALIFIED CONTRACTOR CAN RESULT IN CONSTRUCTION COLLAPSE AND/OR SERIOUS INJURY AND DAMAGE.
- 8. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. THE GUIDELINES SET FORTH BY THE TRUSS PLATE INSTITUTE PUBLICATION "HIB-91, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES" SHALL BE A MINIMUM REQUIREMENT
- 9. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED NOR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 10. SUBMIT COMPLETE SHOP DRAWINGS FOR ALL WOOD TRUSSES SHOWING MEMBER SIZES, SPECIES, GRADE, MOISTURE CONTENT, SPAN, CAMBER, DIMENSIONS, CHORD PITCH, BRACING REQUIREMENTS AND LOADINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN ___
- 11. SEE THE "SCISSOR TRUSS NOTE" FOR ADDITIONAL REQUIREMENTS.

12.0 LAMINATED VENEER LUMBER (LVL) NOTES:

- SUBMIT MANUFACTURER'S DESCRIPTIVE LITERATURE INDICATING MATERIAL COMPOSITION, THICKNESS, DIMENSIONS, LOADING AND FABRICATION DETAILS.
- SUBMIT MANUFACTURER'S LITERATURE INDICATING INSTALLATION DETAILS. INCLUDE LOCATIONS AND DETAILS OF BEARING, BLOCKING, BRIDGING AND CUTTING FOR WORK BY OTHERS

LVL BASIS OF DESIGN IS PER 2.0E GP LAM HAVING THE FOLLOWING PROPERTIES. QUALIFIED TO ASTM D 5456 BY APA- THE ENGINEERED WOOD ASSOCIATION. MODULUS OF ELASTICITY $E = 2.0 \times 10 PSI$ SHEAR MODULUS OF ELASTICITY G = 0.125 x 10 PSI

FLEXURAL STRESS Fb = 2,900 PSI HORIZONTAL SHEAR Fv = 285 PSI COMPRESSION PERP. TO GRAIN Fc = 845 PSI

ACCESSORIES SPECIFIED.

RECOMMENDATIONS.

- DELIVER MATERIALS TO THE JOB SITE IN MANUFACTURER'S ORIGINAL PACKAGING, CONTAINERS AND BUNDLES WITH MANUFACTURER'S IDENTIFICATION INTACT AND LEGIBLE.
- STORE AND HANDLE MATERIALS TO PROTECT AGAINST CONTACT WITH DAMP AND WET SURFACES, EXPOSURE TO WEATHER, BREAKAGE AND DAMAGE. PROVIDE AIR CIRCULATION UNDER COVERING AND AROUND STACKS OF MATERIALS.
- EXCEPT FOR CUTTING TO LENGTH. GP LAM LVL BEAMS AND HEADERS SHALL NOT BE CUT. DRILLED OR NOTCHED, EXCEPT AS NOTED IN MANUFACTURER'S LITERATURE.

PROVIDE GP LAM LVL BEAMS AND HEADERS WHERE INDICATED ON DRAWINGS USING HANGERS AND

- INSTALL GP LAM LVL BEAMS AND HEADERS IN ACCORDANCE WITH MANUFACTURER'S

IDH STRUCTURAL ENGINEERS, PL

SIGNATURE:

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



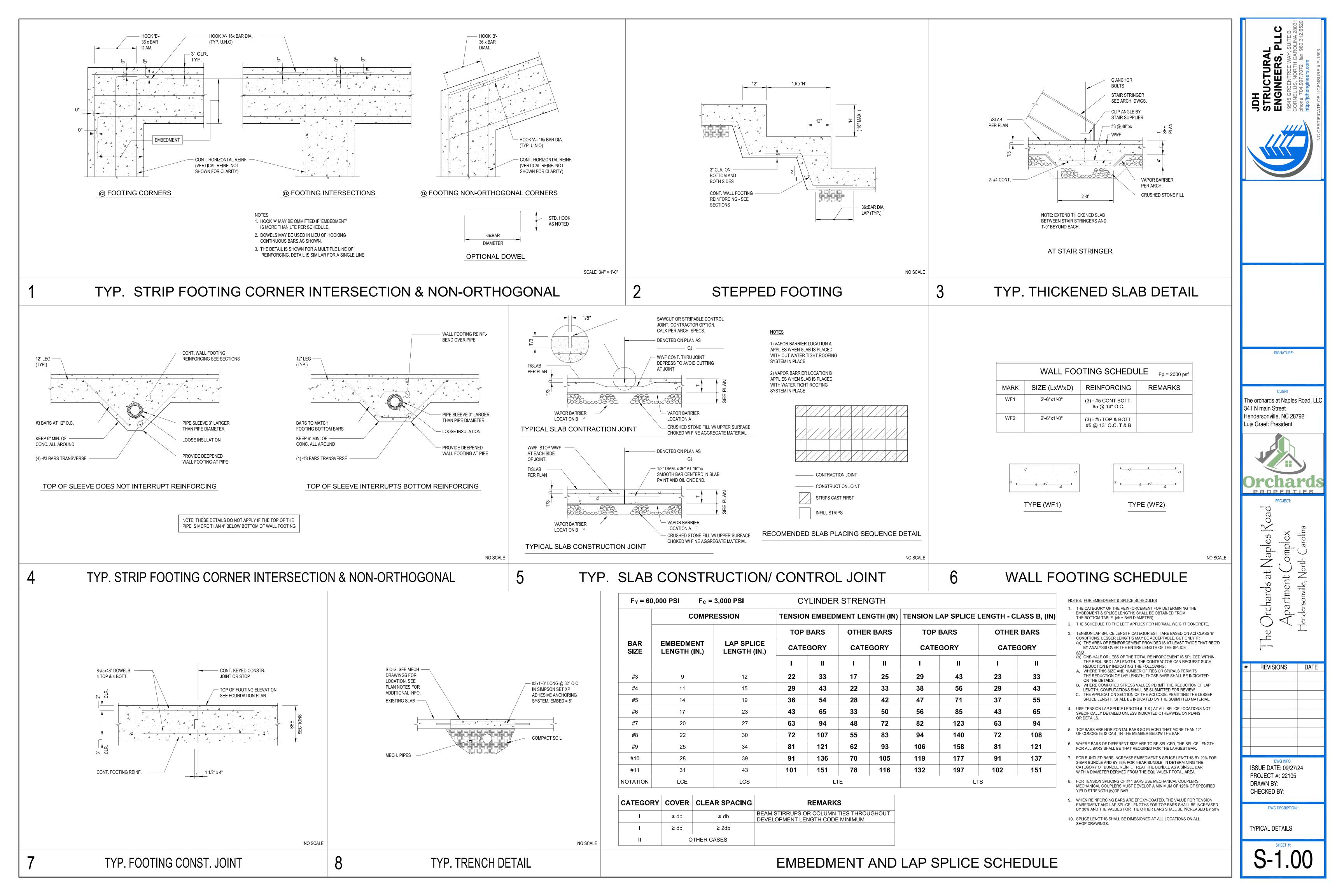
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ISSUE DATE: 09/27/24 PROJECT #: 22105 DRAWN BY: CHECKED BY:

DWG DECRIPTION:

GENERAL NOTES



WALL STUD SCHEDULE								
MARK	MARK LEVEL STUDS SPACING							
W1	B - ROOF NOTES: (4) (5)	2 x 6 SPF NO. 2	24" O.C.					
	B - 1	(3)2 x 4 SPF NO. 2	24" O.C.					
W2	1 - 3	(2)2 x 4 SPF NO. 2	24" O.C.					
	3 - ROOF	2 x 4 SPF NO. 2	24" O.C.					
W3	1 - ROOF	2 x 4 SPF NO. 2	24" O.C.					

- 2x6 STUDS WITH SAME SPECIES AND GRADE CAN BE SUBSTITUTED FOR 2x4 STUDS WHERE INDICATED ON ARCH DWGS. TO ACCOMMODATE M.E.P.
- SPF DENOTES SPRUCE-PINE-FIR. BRACE AT 1/3 POINTS.
- BRACE AT MID-POINT. NO ADDITIONAL BRACING REQUIRED WHERE WALL TYPE IS WITHIN A SHEAR

FASTENING REQUIREMENTS FOR MULTIPLE MEMBERS										
PIECES IN MEMBER	MAX. SPAN	NAILED 16d COMMON	MAX. SPAN	NAILED 16d COMMON						
2	20'	2 ROWS AT 12" oc	20'	2 ROWS AT 24" oc STAGGER AT 12"						
2	30'	3 ROWS AT 12" oc	40'-6"	2 ROWS AT 12" oc						
3	15'	2 ROWS AT 12" oc	15'	2 ROWS AT 24" oc STAGGER AT 12"						
3	22'-6"	3 ROWS AT 12" oc	30'	2 ROWS AT 12" oc						

N/A

N/A

MULTIPLE MEMBERS

13'-6"

- TOP AND BOTTOM ROWS OF CONNECTORS SHALL BE 2" FROM EDGE
- BOLT HOLES ARE EXTEND THROUGH THE FULL THICKNESS OF THE MEMBER. USE WASHERS UNDER HEAD AND NUT. CARRIAGE BOLTS MAY BE USED, BUT THE OUTERMOST OF THE HEAD MAY NOT BE DRAWN IN BEYOND FLUSH WITH THE
- OUTSIDE FACE OF THE LVL MEMBER. FOR THREE-PIECE MEMBER, SPECIFIED NAILING IS FROM EACH SIDE.
- FOUR-PLY MEMBERS, REGARDLESS OF DEPTH, MUST BE BOLTED.

		OOD HEADER SCHEDULE			
				2x4 STUD WALLS	
WALL STUDS	ROUGH OPENING	SIZE	JAMB STUDS		
WALL STODS	WIDTH "W"	WIDTH "W"	JACKS	KINGS	
2x4	"W" ≦ 3'-0"	(2) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	SINGLE	
2x4	3'-0" < "W" < 6'-0"	(2) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	DOUBLE	
2x4	6'-0" < "W" < 9'-0"	(2) 2x10 w/ 1/2" PLYWOOD PL	DOUBLE	DOUBLE	
2x4	9'-0" < "W" < 12'-0"	(2) 1 3/4" X 11" LVL	DOUBLE	TRIPLE	
2x4	12'-0" > "W"	SEE SECTIONS	_		

TYP. WOOD HEADER SCHEDULE					
WALL STUDS	ROUGH OPENING	SIZE	JAMB STUDS		
WALL STUDS	WIDTH "W"	SIZE	JACKS	KINGS	
2x6	"W" ≦ 3'-0"	(3) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	SINGLE	
2x6	3'-0" < "W" < 6'-0"	(3) 2x8 w/ 1/2" PLYWOOD PL	SINGLE	DOUBLE	
2x6	6'-0" < "W" < 9'-0"	(3) 2x10 w/ 1/2" PLYWOOD PL	DOUBLE	DOUBLE	
2x6	9'-0" < "W" < 12'-0"	(3) 1 3/4" X 11" LVL	DOUBLE	TRIPLE	
2x6	12'-0" > "W"	SEE SECTIONS	_		

JOIST SCHEDULE SPACING MARK MEMBER 2 x 10 SPF NO.2 16" OC

- WHERE DOUBLE JOISTS ARE REQUIRED, PROVIDE "TYPICAL POST" AT EACH END. SEE POST SCHEDULE ON \$1.00 SERIES SHEETS.
 - 2x8 BLOCKING OR 2x12 BLOCKING @ 6'-0" O.C.

SEE "LOOSE LINTEL" SCHEDULE FOR BRICK SHELF ANGLES

WALL STUD SCHEDULE

FASTENING REQUIREMENTS

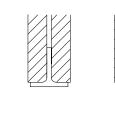
WOOD HEADER SCHEDULE

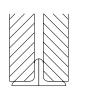
JOIST SCHEDULE

STEEL LINTEL SCHEDULE

CLEAR OPENING	ONE ANGLE FOR EA. 4" FOR 4", 8" & 12" WALLS	6" WALL	10" WALL	MIN. BRG.
0'-8" TO 3'-4"	L 3 1/2 x 3 1/2 x 1/4	WT 5 x 6	(2) L 4 x 4 x 1/4	4"
3'-4" TO 5'-4"	L 4 x 3 1/2 x 1/4 (LLV)	WT 5 x 6	(2) L 4 x 4 x 5/16	6"
5'-4" TO 7'-4"	L 5 x 3 1/2 x 5/16 (LLV)	WT 7 x 11	(2) L 6 x 4 x 1/4 (LLV)	8"
7'-4" TO 10'-0"	L 6 x 3 1/2 x 5/16 (LLV)	WT 7 x 13	(2) L 6 x 4 x 5/16 (LLV)	8"

6" NOMINAL





10" NOMINAL



2 ROWS AT 24" oc STAGGER AT 12"

2 ROWS AT 12" oc

1. WHERE LINTELS BEAR ON HOLLOW MASONRY UNITS FILL ALL CORES UNDER BEARING WITH GROUT FROM BOTTOM OF LINTEL TO 16" MIN. BELOW LINTEL.

- 2. THESE LINTELS ARE NOT DESIGNED FOR LINTELS THAT CARRY FLOOR LOAD.
- 3. ALL LINTELS ARE GALVANIZED UNLESS NOTED OTHERWISE

WOOD BEAM SCHEDULE POST MARK B1 (2)2x12 SPF NO.2 SEE PLAN B2 (2)1-3/4x11-7/8 LVL (2.0E) SEE PLAN В3 SEE PLAN (3)1-3/4x14 LVL (2.0E) (2)2x10 SPF NO.2 SEE PLAN

SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS.

(3)1-3/4x11-7/8 LVL (2.0E)

SEE TYPICAL POST SCHEDULE & ELEVATION ON \$1.00 SERIES

SEE PLAN

3. IF NO POST IS SHOWN ON PLAN, USE (2) WALL STUDS UNDER

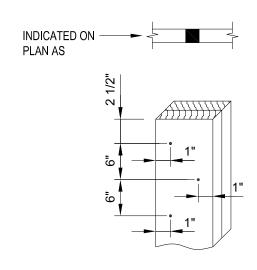
WOOD HEADER SCHEDULE				
ARK	SIZE	JACKS	KINGS	
H1	(3)1-3/4x9-1/4 LVL (2.0E)	TRIPLE	DOUBLE	

(3)2x12 SPF NO.2

1. SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING

STEEL LINTEL SCHEDULE

CONNECTION, LOCATION	NAIL	NUMBER OR SPACING
BAND JOIST TO SILL OR TOP PLATE, TOE NAIL	8d	6" o.c.
JOIST TO BAND JOIST, FACE NAIL	16d COMMON	3
JOIST TO SILL OR GIRDER, TOE NAIL	8d COMMON	3
BRIDGING TO JOIST, TOE NAIL EACH END	8d COMMON	2
LEDGER STRIP	16d COMMON	3 AT EACH JOIST
1x6 OR LESS SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	2
OVER 1x6 SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	3
2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	16d COMMON	2
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d COMMON	16" O.C.
TOP OR SOLE PLATE TO STUD, END NAIL	16d COMMON	2
STUD TO SOLE PLATE, TOE NAIL	8d COMMON	4
DOUBLED STUDS, FACE NAIL	10d COMMON	24" O.C.
DOUBLED TOP PLATES, FACE NAIL	10d COMMON	16" O.C.
TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL	16d COMMON	2
CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" O.C. ALONG EDGE
CEILING JOISTS TO PLATE, TOENAIL	8d COMMON	3
CONTINUOUS HEADER TO STUD, TOENAIL	8d COMMON	4
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16d COMMON	3
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16d COMMON	3
RAFTER TO PLATE, TOE NAIL	8d COMMON	3
1-INCH BRACE TO EACH STUD AND PLATE, FACE NAIL	8d COMMON	2
WIDER THAN 1x8 SHEATHING TO EACH BEARING, FACE NAIL	8d COMMON	3
BUILT-UP CORNER STUDS	16d COMMON	24" O.C.
BUILT-UP GIRDER OR BEAMS, THREE MEMBERS	20d COMMON	32" O.C. TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
2" PLANKS, AT EA. BEARING	16d COMMON	2
COLLAR TIE TO RAFTER, FACE NAIL	10d COMMON	3
JACK RAFTER TO HIP, TOE NAIL OR FACE NAIL	10d COMMON 16d COMMON	3 2
ROOF RAFTER TO 2-by RIDGE BEAM, TOE NAIL OR FACE NAIL	16d COMMON 16d COMMON	2 2
JOIST TO BAND JOIST, FACE NAIL	16d COMMON	3



WOOD POST SCHEDULE				
	POST	CONNECTION		
MARK	SIZE	BASE	CAP	
P1	6x6 SPF NO. 2	PBS66	CC64/ECC64	
P2	5.25x5.25 PSL 2.0E	PBS66	CC64/ECC64	
P3	(3)2x6 SPF NO. 2			
P4	HSS3-1/2x3-1/2x3/16			
P5	4x4 SPF NO. 2	PBS44	CC44/ECC44	
P6	3.5x3.5 PSL 2.0E	PBS44	CC44/ECC44	
P7	3.5x5.25 PSL 2.0E	PBS46	CC46	
P8	(3)2x4 SPF NO. 2			

ALL POSTS SHALL BE SPRUCE PINE FIR- NO. 2 OR BETTER USED TO BUILD UP STUDS SHALL BE 10d COMMON WIRE NAILS W/ MINIMUM DIAMETER= 0.148 IN. AND MINIMUM LENTGH= 3 IN.

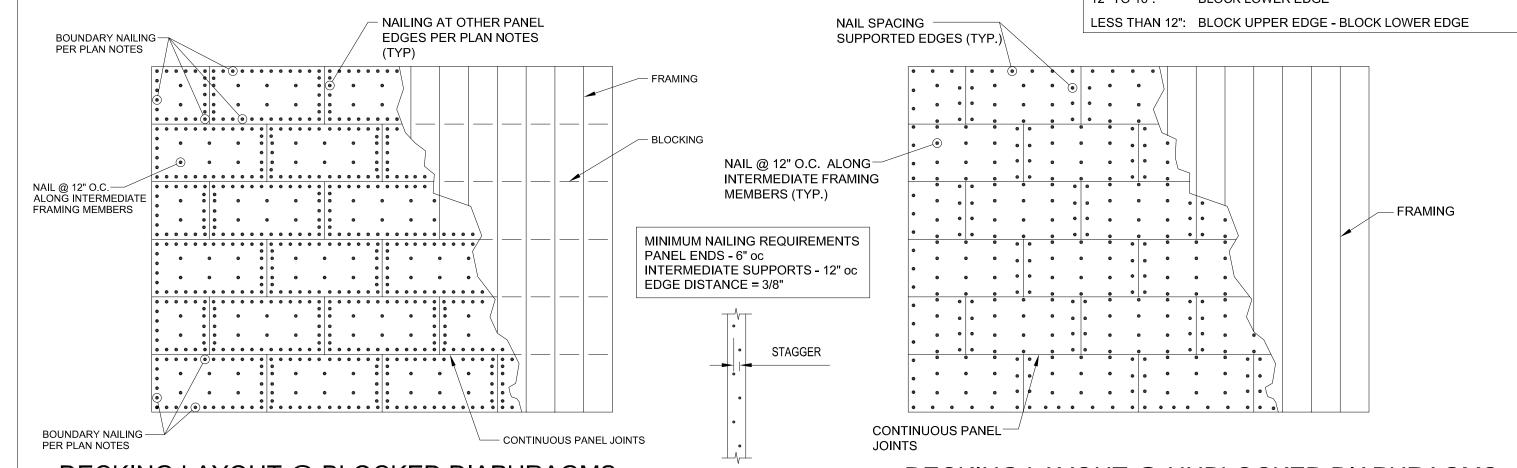
WOOD BEAM SCHEDULE

WOOD HEADER SCHEDULE

NARROW ROOF SHEATHING PANEL REQUIREMENTS: IF WOOD SHEATHING PANEL IS: PROVIDE 2 CLIPS LOWER EDGE - BLOCK LOWER EDGE

DOUBLE DOUBLE

BLOCK LOWER EDGE



DECKING LAYOUT @ BLOCKED DIAPHRAGMS

BOUNDARY NAILING SHALL INCLUDE NAILING OVER LENGTH OF SHEAR WALLS BOUNDARY NAILING SHALL INCLUDE NAILING ALONG ALL CONTINUOUS PANEL JOINTS BOUNDARY NAILING SHALL INCLUDE NAILING ENTIRE PERIMETER OF DECKING SPACE PANELS 1/8" MINIMUM FOR PANEL EXPANSION (ENDS AND EDGES)

STAGGER FASTENERS TO MINIMIZE WOOD SPLITTING PARALLEL TO WOOD GRAIN

DECKING LAYOUT @ UNBLOCKED DIAPHRAGMS

SUPPORTED EDGE NAILING SHALL INCLUDE NAILING OVER LENGTH OF SHEAR WALLS SUPPORTED EDGE NAILING SHALL INCLUDE NAILING ENTIRE PERIMETER OF DECKING SPACE PANELS 1/8" MINIMUM FOR PANEL EXPANSION (ENDS AND EDGES)

TYPICAL DETAILS

ISSUE DATE: 09/27/24

PROJECT #: 22105

DRAWN BY:

CHECKED BY:

DWG DECRIPTION:

SIGNATURE:

The orchards at Naples Road, LL0

341 N main Street

Luis Graef: President

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Naples

at

rchards

REVISIONS

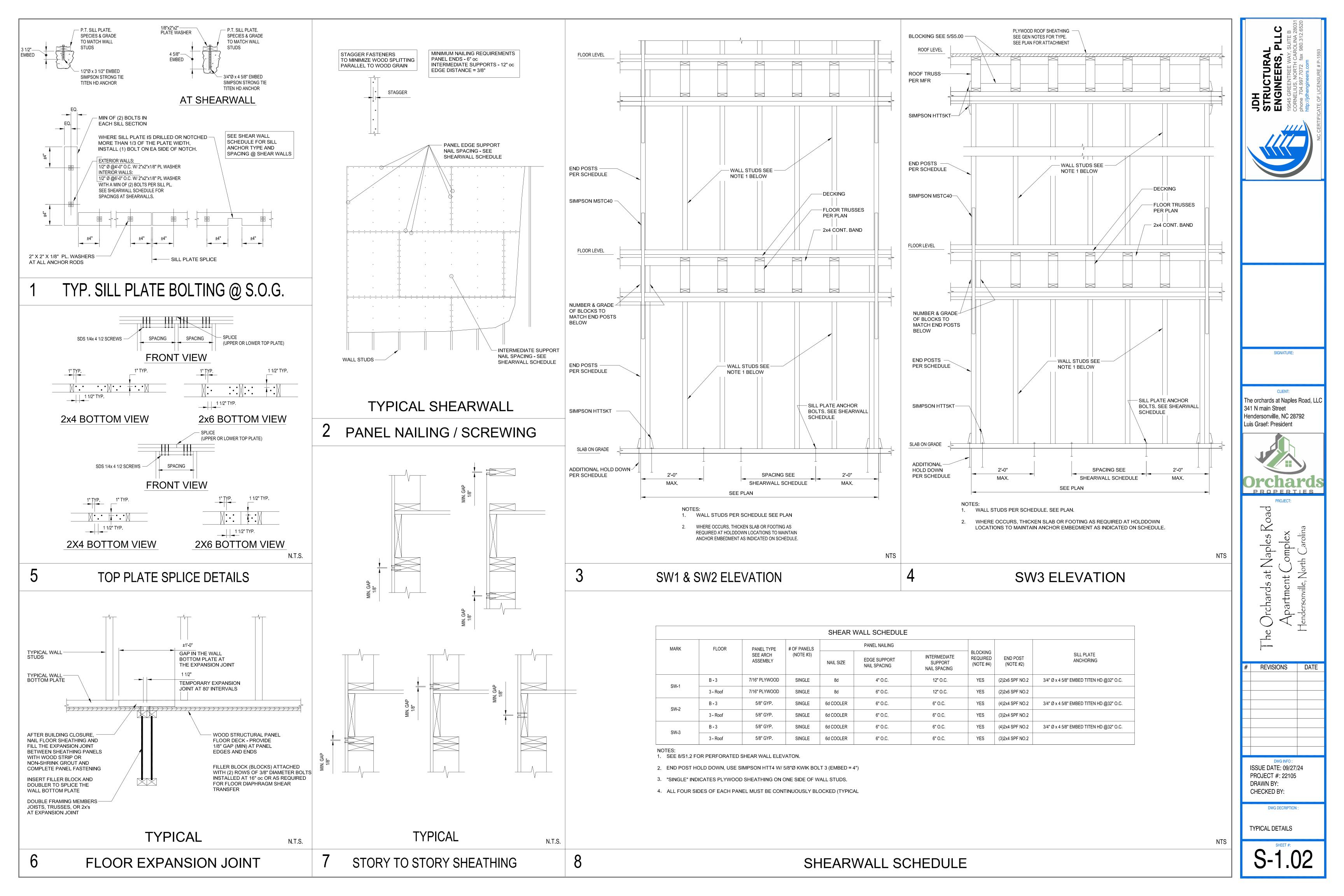
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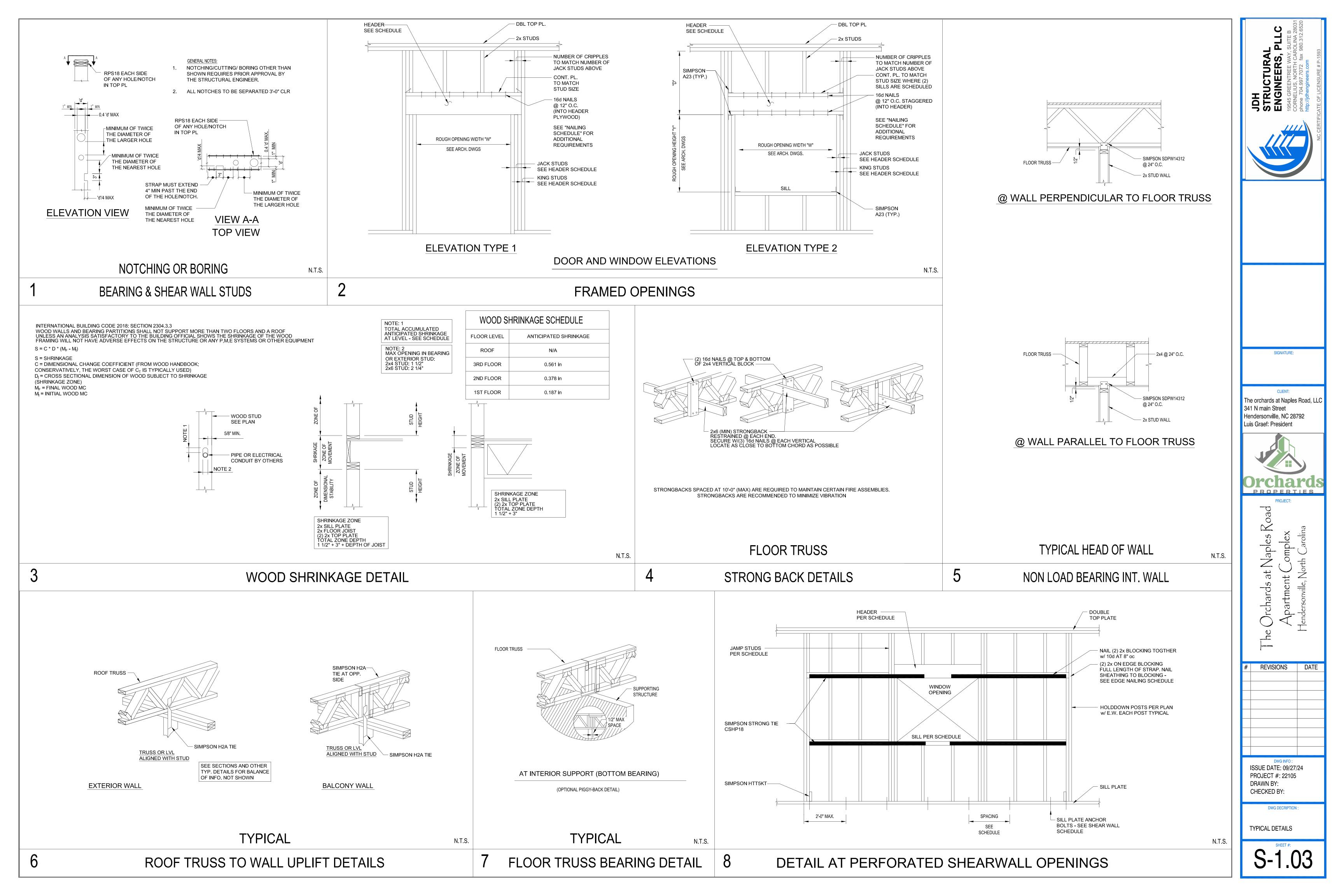
Hendersonville, NC 28792

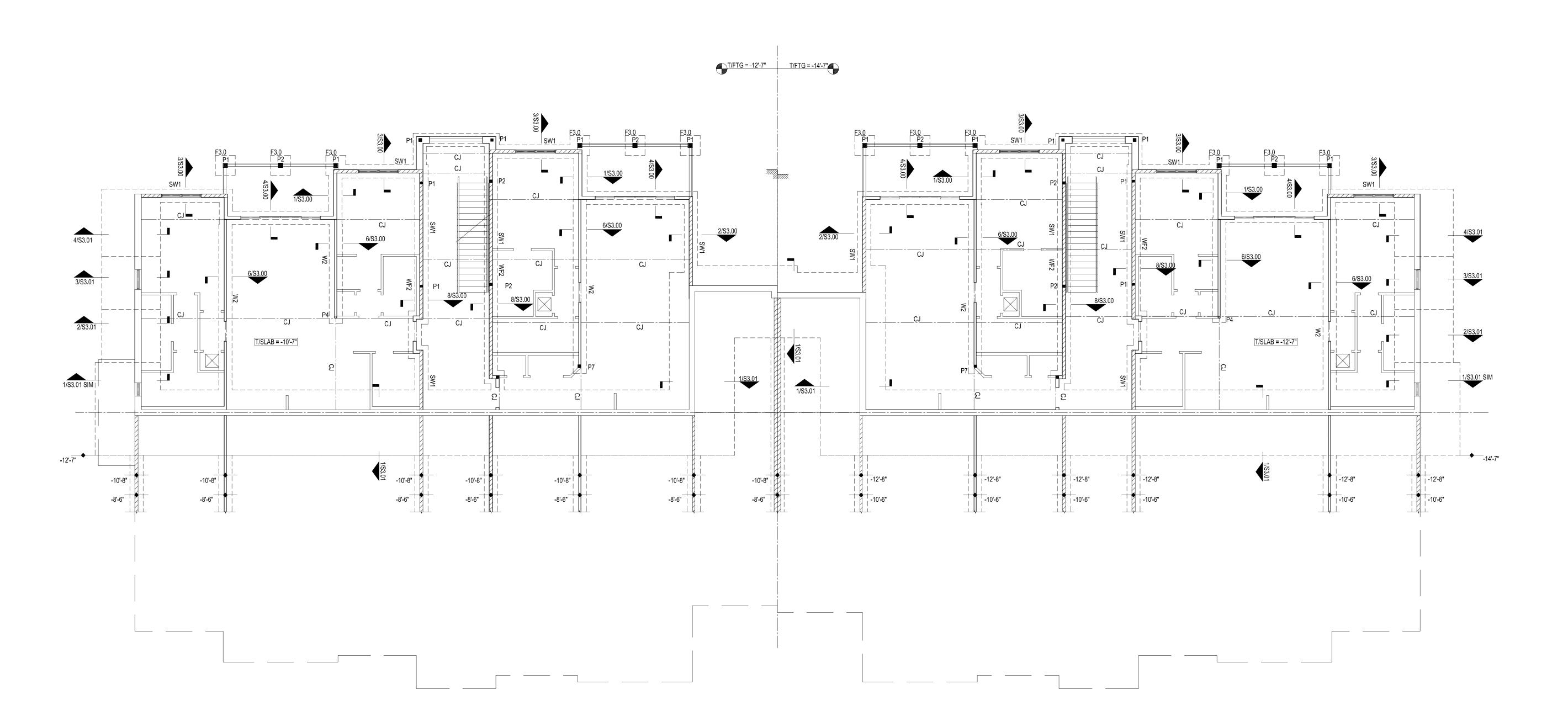
NAIL FASTENER SCHEDULE

POST SCHEDULE

TYPICAL DECKING LAYOUT DETAILS







BASEMENT FOUNDATION PLAN

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

LEGEND:

1. **◆** INDICATES STEP IN FOOTING

2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE

4. INDICATES LOAD BEARING WALL AND LABEL

5. INDICATES NON-STRUCTURAL WALL

6.

INDICATES LOAD BEARING WALL BELOW

7. — INDICATES WALL OPENING

8. — — INDICATES WALL OPENING BELOW

9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING

10. "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON \$1.00 SERIES SHEETS

11. "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM

12. "RJx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON \$1.00 SERIES SHEETS

SCHEDULE ON \$1.00 SERIES SHEETS

13. SINDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

FOUNDATION PLAN NOTES:

1. ELEVATIONS FOR FOOTINGS, SLABS, STEEL, WALLS, FLOORS, ELEVATOR PITS, ETC. ARE REFERENCED + OR - FROM DATUM ELEVATION SEE SHEET S2.02 (I.E. T/SL +2'-6", T/W -5'-3", T/STL -6 1/4", ETC.).

2. T/FTG ELEVATIONS SHOWN ON PLAN ARE FOR STRIP AND SPREAD FOOTINGS. T/FTG ELEVATION AROUND PERIMETER SHALL BE -2'-0" U.N.O. WITH FOOTING STEPS SHOWN IN RELATIVE LOCATIONS. SEE S1.00 SERIES SHEETS "TYPICAL DETAILS" FOR FOOTING STEP AND SPACING REQUIREMENTS.

3. TYPICAL SLAB ON GRADE (S.O.G.) IS 4" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (FLAT SHEETS) ON 6" CRUSHED STONE BASE. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS. SEE S2.00 FOR SLAB CONTROL JOINT LAYOUT.

4. SUPPORT WWF AT 1" FROM TOP OF S.O.G. WITH SAND PLATES (CHAIRS WITH PLATE BASES) OR OTHER ACCEPTABLE DEVICES. BRICKS ARE NOT PERMITTED.

5. NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (f'c= 2000psi) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.

6. CONTRACTOR SHALL SHORE ALL WALLS RECEIVING BACKFILL ON ONLY ONE SIDE OR RECEIVING UNEQUAL LEVELS OF BACKFILL ON OPPOSITE SIDES, UNLESS NOTED OTHERWISE IN THE DETAILS. ANY WALLS FOR WHICH SHORING IS INDICATED AS REQUIRED IN THE PLANS OR DETAILS SHALL BE SHORED REGARDLESS OF BACKFILL CONDITIONS.

7. MASONRY SHOWN ON STRUCTURAL DRAWINGS DEFINES ONLY THE EXTENT AND REQUIREMENTS OF MASONRY UTILIZED FOR STRUCTURAL PURPOSES (I.E. BEARING WALLS, SHEAR WALLS, RETAINING WALLS, FOUNDATION WALLS, COLUMNS, ETC.).

8. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.

9. ALL STUDS TO ALIGN W/ TRUSSES

10. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.

11. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON- STRUCTURAL MASONRY.

12. SEE S1.00 SERIES SHEETS FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.

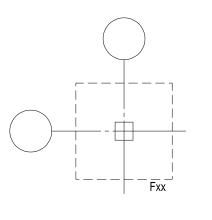
13. SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.

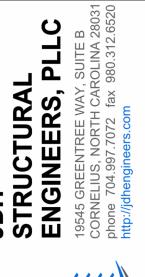
14. SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.

15. ALL STRUCTURAL WALLS SHOWN ARE TYPE " W1 " U.N.O.

16. FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:

Fxx = FOOTING MARK PER SCHEDULE ON S1.00





NC CERTIFIC

SIGNATURE:

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



PROJECT:

he Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

_			
#	REVISIONS	DATE	
DWG INFO :			

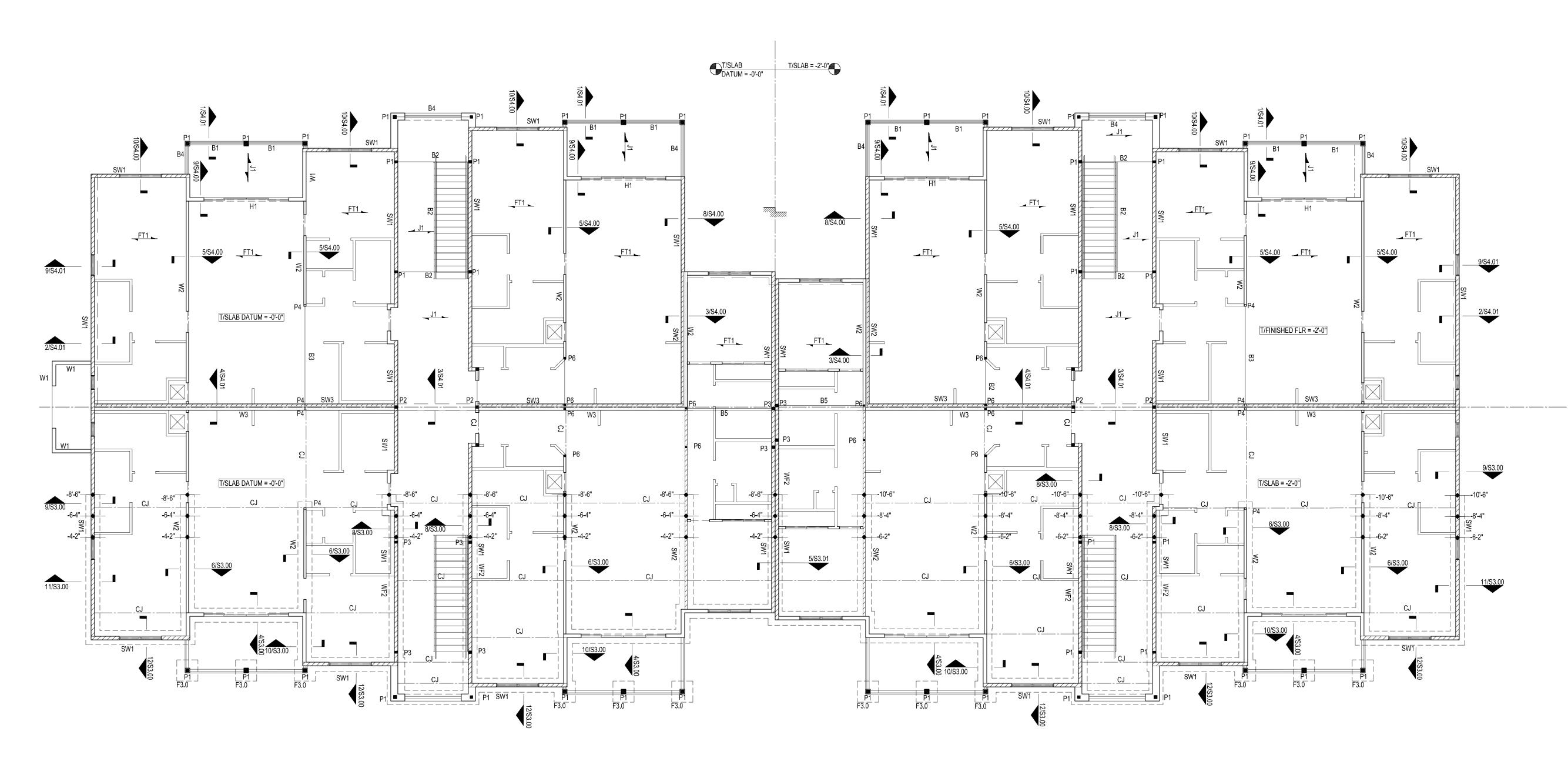
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

BUILDING 3 BASEMENT

FOUNDATION PLAN

S-2.01B

DWG DECRIPTION:



FIRST FLOOR FOUNDATION & FRAMING PLAN SCALE: 1/8" = 1'-0"

LEGEND:

1.

→ INDICATES STEP IN FOOTING

2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE

4. _____ INDICATES LOAD BEARING WALL AND LABEL

5. INDICATES NON-STRUCTURAL WALL

6.

INDICATES LOAD BEARING WALL BELOW

7. SIMPLE INDICATES WALL OPENING

8. ——— INDICATES WALL OPENING BELOW

9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING

10. "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON \$1.00 SERIES SHEETS

11. "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS

12. "RJx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON \$1.00 SERIES SHEETS

13. SINDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

FOUNDATION PLAN NOTES:

1. T/SL DATUM ELEVATION IS 0'-0". ELEVATIONS FOR FOOTINGS, SLABS, STEEL, WALLS, FLOORS, ELEVATOR PITS, ETC. ARE REFERENCED + OR - FROM DATUM ELEVATION (I.E. T/SL + 2'-6'', T/W -5'-3'', T/STL -6 1/4'', ETC.).

2. T/FTG ELEVATIONS SHOWN ON PLAN ARE FOR STRIP AND SPREAD FOOTINGS. T/FTG ELEVATION AROUND PERIMETER SHALL BE -2'-0" U.N.O. WITH FOOTING STEPS SHOWN IN RELATIVE LOCATIONS. SEE S1.00 SERIES SHEETS "TYPICAL DETAILS " FOR FOOTING STEP AND SPACING REQUIREMENTS.

3. TYPICAL SLAB ON GRADE (S.O.G.) IS 4" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (FLAT SHEETS) ON 6" CRUSHED STONE BASE. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS. SEE S2.00 FOR SLAB CONTROL JOINT LAYOUT.

4. SUPPORT WWF AT 1" FROM TOP OF S.O.G. WITH SAND PLATES (CHAIRS WITH PLATE BASES) OR OTHER ACCEPTABLE DEVICES. BRICKS ARE NOT PERMITTED.

5. NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (fc= 2000psi) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.

6. CONTRACTOR SHALL SHORE ALL WALLS RECEIVING BACKFILL ON ONLY ONE SIDE OR RECEIVING UNEQUAL LEVELS OF BACKFILL ON OPPOSITE SIDES, UNLESS NOTED OTHERWISE IN THE DETAILS. ANY WALLS FOR WHICH SHORING IS INDICATED AS REQUIRED IN THE PLANS OR DETAILS SHALL BE SHORED REGARDLESS OF BACKFILL CONDITIONS.

7. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.

8. ALL STUDS TO ALIGN W/ TRUSSES

9. FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

10. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.

11. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON- STRUCTURAL MASONRY.

12. SEE \$1.00 SERIES SHEETS FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.

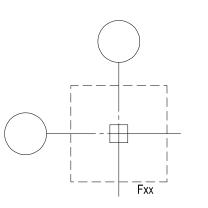
13. SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.

14. SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.

15. ALL STRUCTURAL WALLS SHOWN ARE TYPE " W1 " U.N.O.

16. FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:

Fxx = FOOTING MARK PER SCHEDULE OB S1.00



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19545 GREENTREE WAY, SUITE B
CORNELIUS, NORTH CAROLINA 28031
phone 704.997.7072 fax 980.312.6520
http://jdhengineers.com

NC CERTIFI

SIGNATURE:

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



PERT
PROJECT:

Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

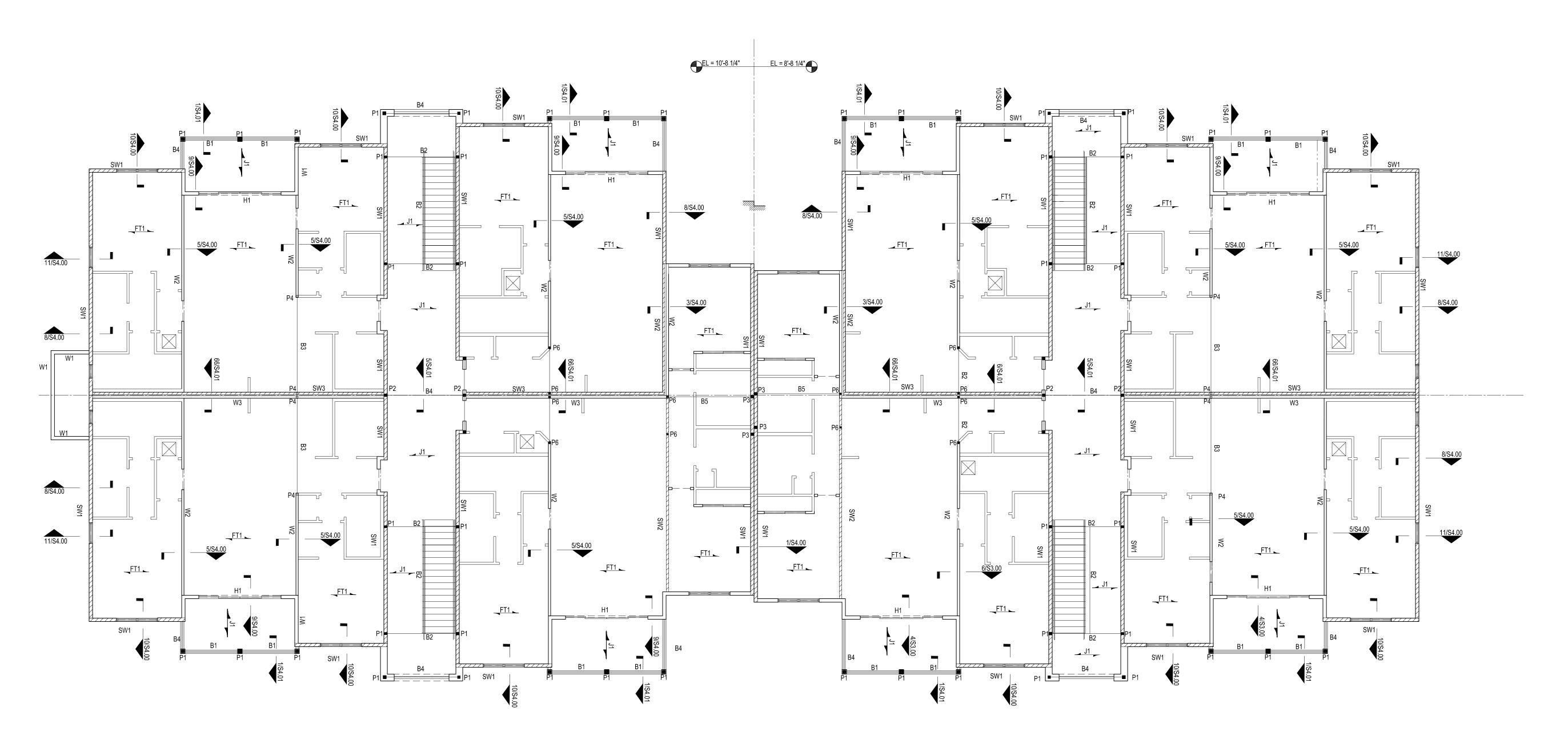
REVISIONS DATE

DWG INFO: ISSUE DATE: 09/27/24 PROJECT #: 22105 DRAWN BY: CHECKED BY:

DWG DECRIPTION :

BUILDING 3 FIRST FLOOR FOUNDATION & FRAMING PLAN

S-2.02



SECOND FLOOR FRAMING PLAN

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

LEGEND:

1. → INDICATES STEP IN FOOTING

2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE

4. INDICATES LOAD BEARING WALL AND LABEL

5. INDICATES NON-STRUCTURAL WALL

6.

INDICATES LOAD BEARING WALL BELOW

7. INDICATES WALL OPENING

8. — — INDICATES WALL OPENING BELOW

9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING

10. " Jx " INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS

11. "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS

12. "RJx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS

13. SINDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

1. SEE PLAN FOR FINISHED FLOOR ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (+X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM.

2. WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.

3. WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.

4. SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH

10d NAILS @ 16" O.C. 5. TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD

SHEATHING. ATTACH PER GENERAL NOTES ON \$1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.

LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY. 7. SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE

6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR

GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.

8. SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.

9. SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.

10. SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.

11. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.

12. ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.

13. SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O. USE BLOCKED DIAPHRAGM FOR SHADED AREA.

USE 10d NAILS WITH 2" BOUNDARY SPACING IN BOTH DIRECTIONS.

14. INDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

15. SWX INDICATES SHEARWALL LOCATION AND LABEL

16. ALL STUDS TO ALIGN W/ TRUSSES

17. FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

18. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.



SIGNATURE:

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



Naples

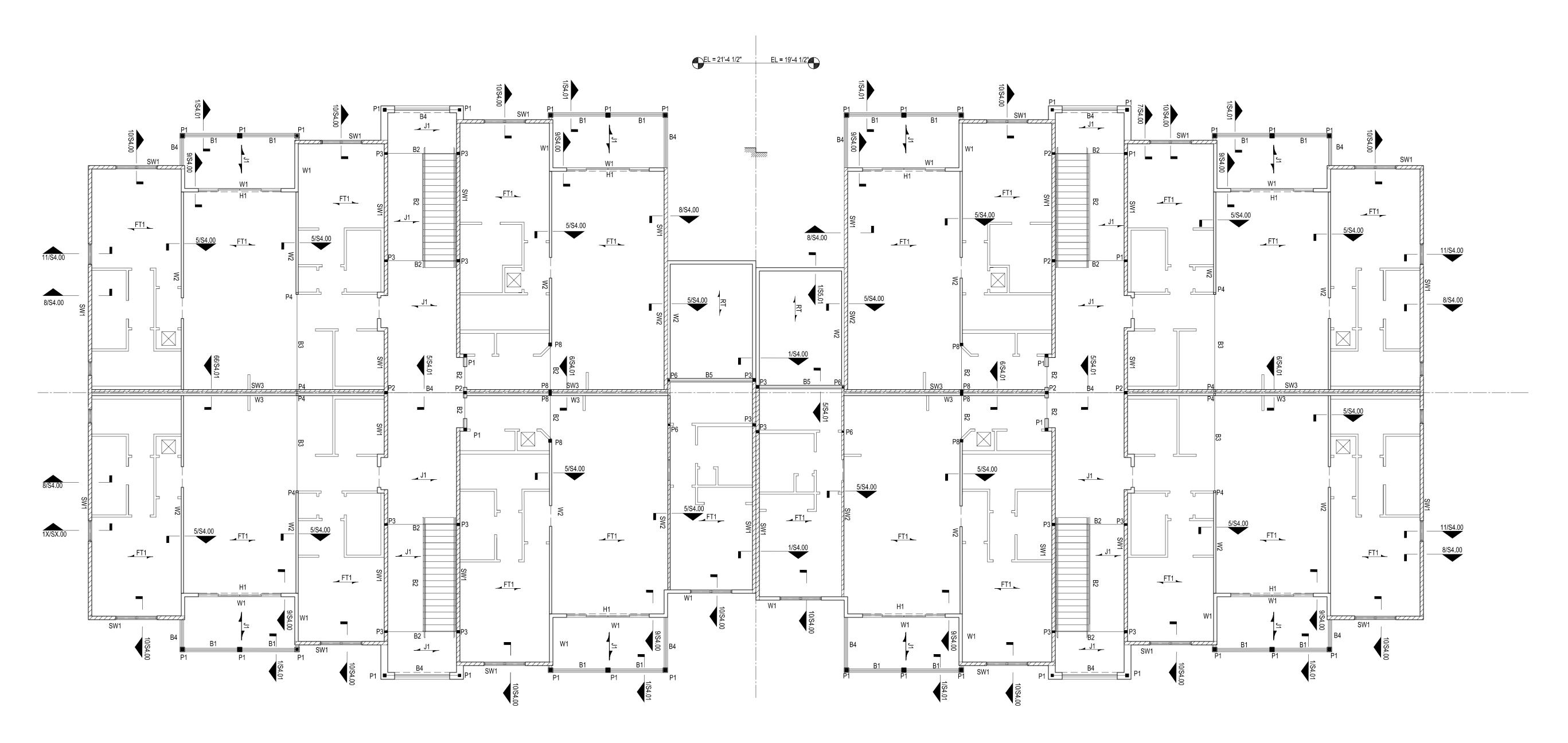
#	REVISIONS	DATE
	DWG INFO :	

ISSUE DATE: 09/27/24 PROJECT #: 22105 DRAWN BY: CHECKED BY:

BUILDING 3 SECOND

FLOOR FRAMING PLAN

DWG DECRIPTION:



THIRD FLOOR FRAMING PLAN

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

LEGEND:

1. INDICATES STEP IN FOOTING

2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE

4. INDICATES LOAD BEARING WALL AND LABEL

5. _____ INDICATES NON-STRUCTURAL WALL

6.

Indicates Load Bearing Wall Below

7. 🗀 🖂 INDICATES WALL OPENING

8. — INDICATES WALL OPENING BELOW

9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING

10. "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON \$1.00 SERIES SHEETS

11. "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON \$1.00 SERIES SHEETS

12. "RJx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS

13. SINDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

1. SEE PLAN FOR FINISHED FLOOR ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (+X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM.

2. WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.

SHEATHING. ATTACH PER GENERAL NOTES ON \$1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.

3. TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD

4. WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH

THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.

5. SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.

6. TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON \$1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.

7. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.

8. SEE \$1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.

9. SEE \$1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.

10. SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.

11. SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.

12. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.

13. ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.

14. SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O. USE BLOCKED DIAPHRAGM FOR SHADED AREA.

USE 10d NAILS WITH 2" BOUNDARY SPACING IN BOTH DIRECTIONS.

15. INDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

16. SWX INDICATES SHEARWALL LOCATION AND LABEL

17. ALL STUDS TO ALIGN W/ TRUSSES

18. FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

19. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.

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http://jdhengineers.com



IGNATURE:

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



PROJECT:

he Orchards at Naples Road Apartment Complex Hendersonville, North Carolina

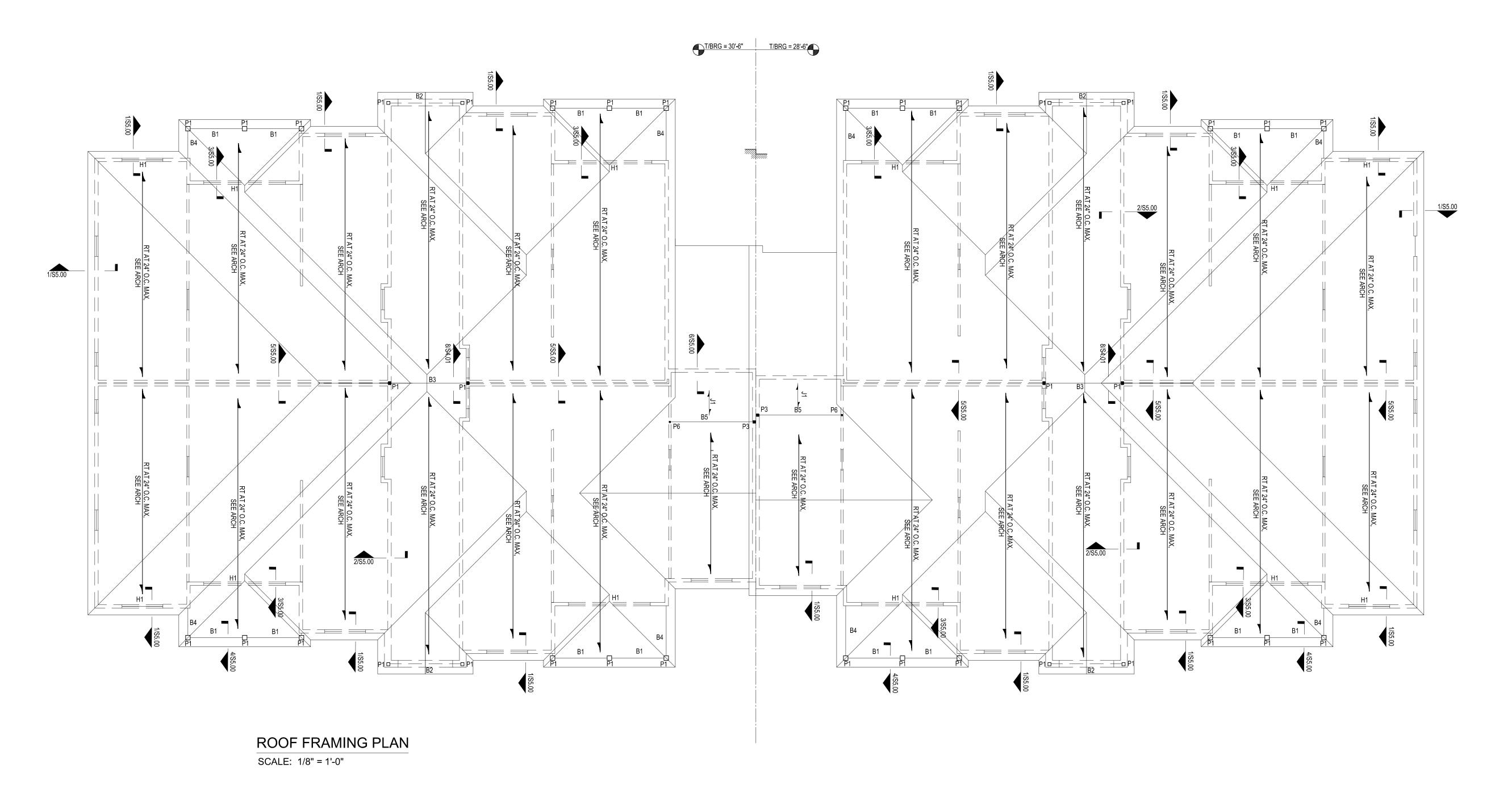
#	REVISIONS	DATE			
	DWG INFO:				

DWG INFO: ISSUE DATE: 09/27/24 PROJECT #: 22105 DRAWN BY: CHECKED BY:

DWG DECRIPTION:

BUILDING 3 THIRD FLOOR FRAMING PLAN

S-2.04



LEGEND:

1. — INDICATES STEP IN FOOTING

2. INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE

SW*
3. ZZZZZ INDICATES SHEAR WALL LOCATION AND LABEL

4. _____ INDICATES LOAD BEARING WALL AND LABEL

5. _____ INDICATES NON-STRUCTURAL WALL

6. _ _ _ INDICATES LOAD BEARING WALL BELOW

7. — INDICATES WALL OPENING

9 CT INDICATES WALL ODENING BE

8. — — INDICATES WALL OPENING BELOW

9. INDICATES DIRECTION OF FLOOR OR ROOF FRAMING

10. "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS

11. "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS

12. "RJx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS

13. SINDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

ROOF FRAMING PLAN NOTES:

1. SEE PLAN FOR TRUSS BEARING ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (+X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM.

2 WOOD TRIES EARDICATOR SHALL REFERENCE ARCHITECTURAL RRAWINGS FOR ARRITONIAL DIMENSIONIAL INFORMATION

2. WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.

SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.

3. TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD

4. WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.

5. SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.

6. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.

7. SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH

THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.

8. SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.

9. SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.

10. SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.

11. DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF WALL U.N.O.

12. W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.

13. SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O.

14. SINDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.

15. MAU-1 AND MAU-2 DENOTES ROOF TOP UNITS, SEE MECH. DRAWINGS FOR LOCATION AND EQUIPMENT WEIGHT. JOIST SUPPLIER TO DESIGN TO SUIT. SEE \$1.00 FOR ROOF LOADS.

16. SEE 1/S1.05 FOR WALL OPENINGS

17. ALL STUDS TO ALIGN W/ TRUSSES

18. FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

STRUCTUR STRUCTUR ENGINEERS 19545 GREENTREE W CORNELIUS, NORTH phone 704.997.7072 f http://jdhengineers.com

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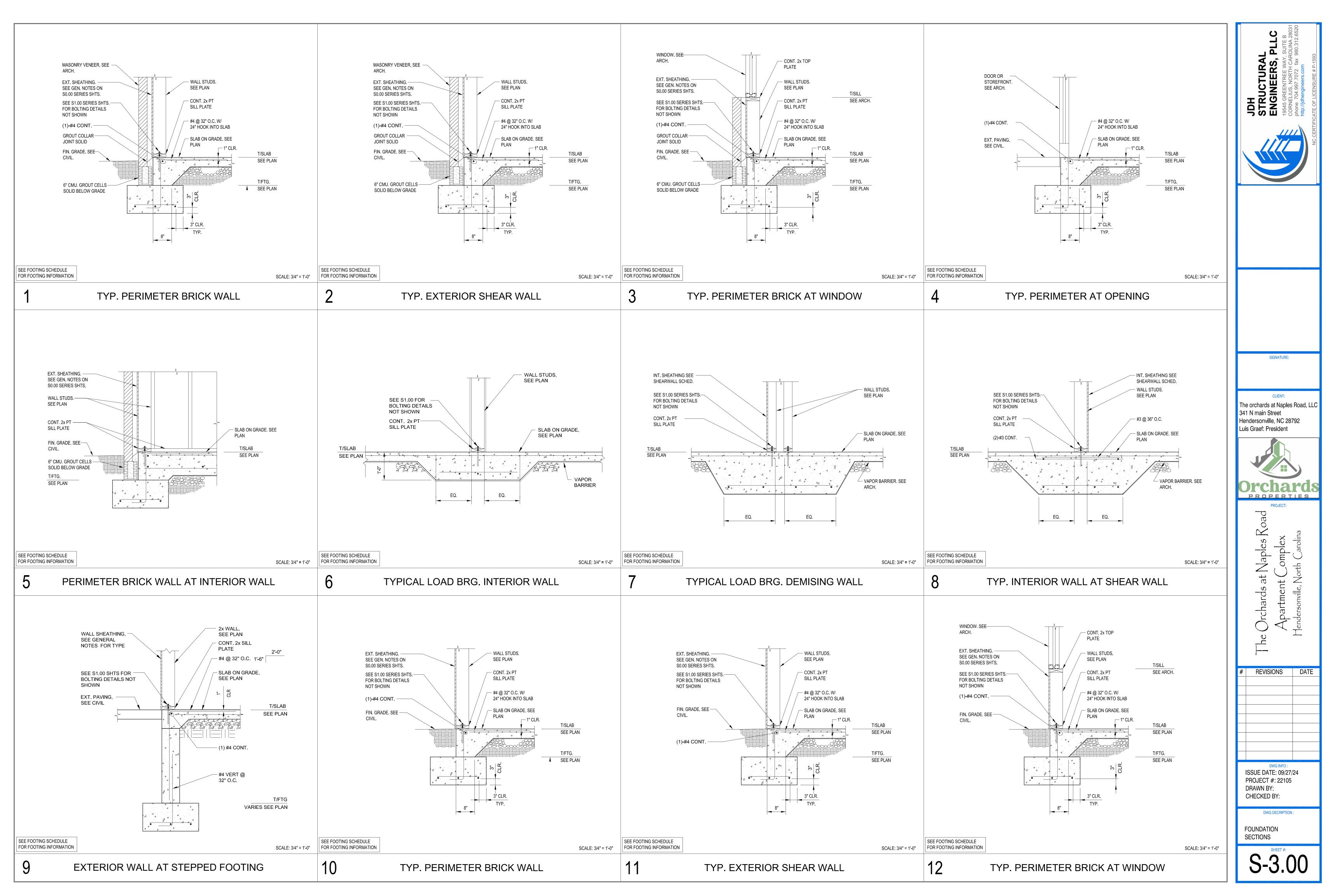
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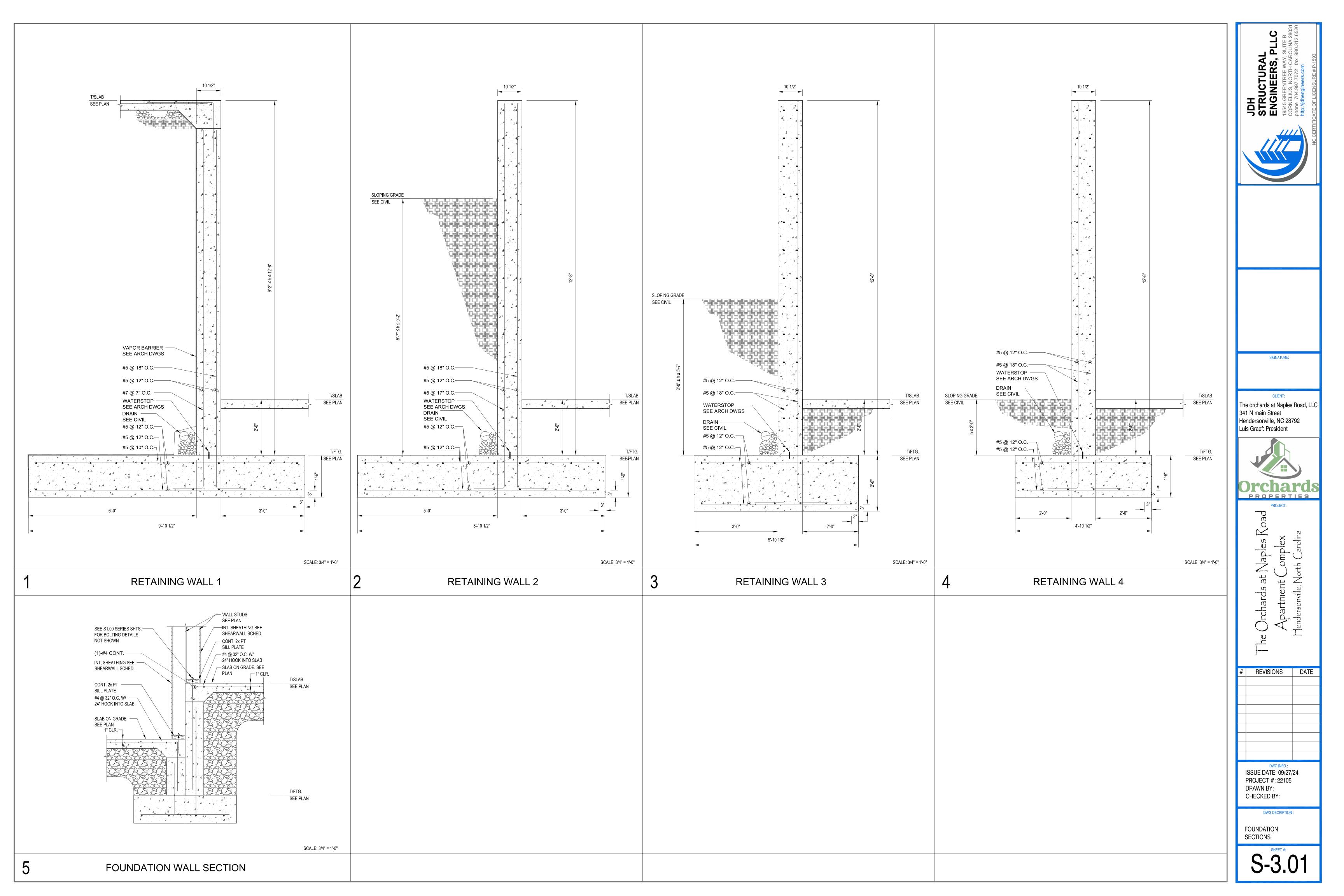
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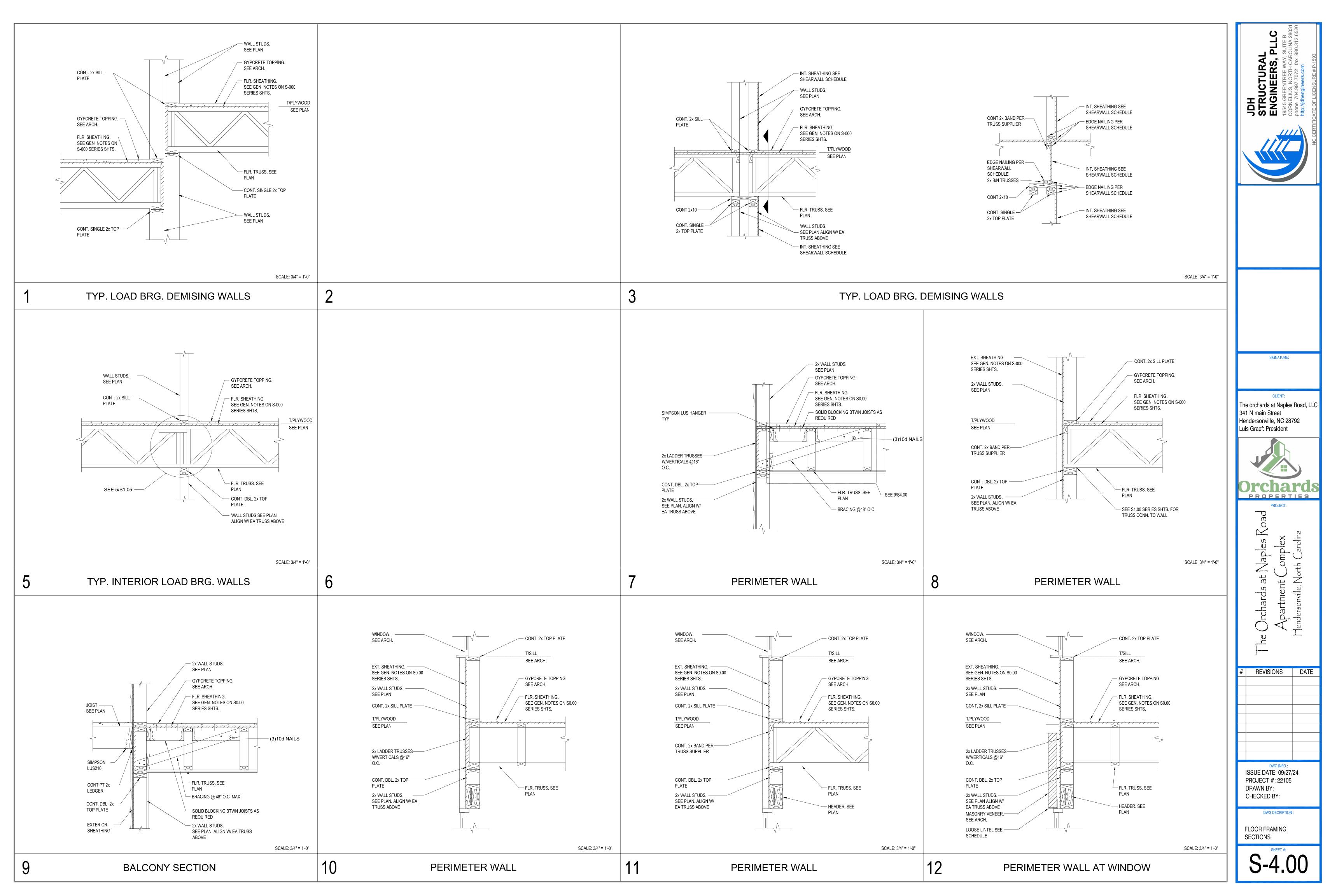
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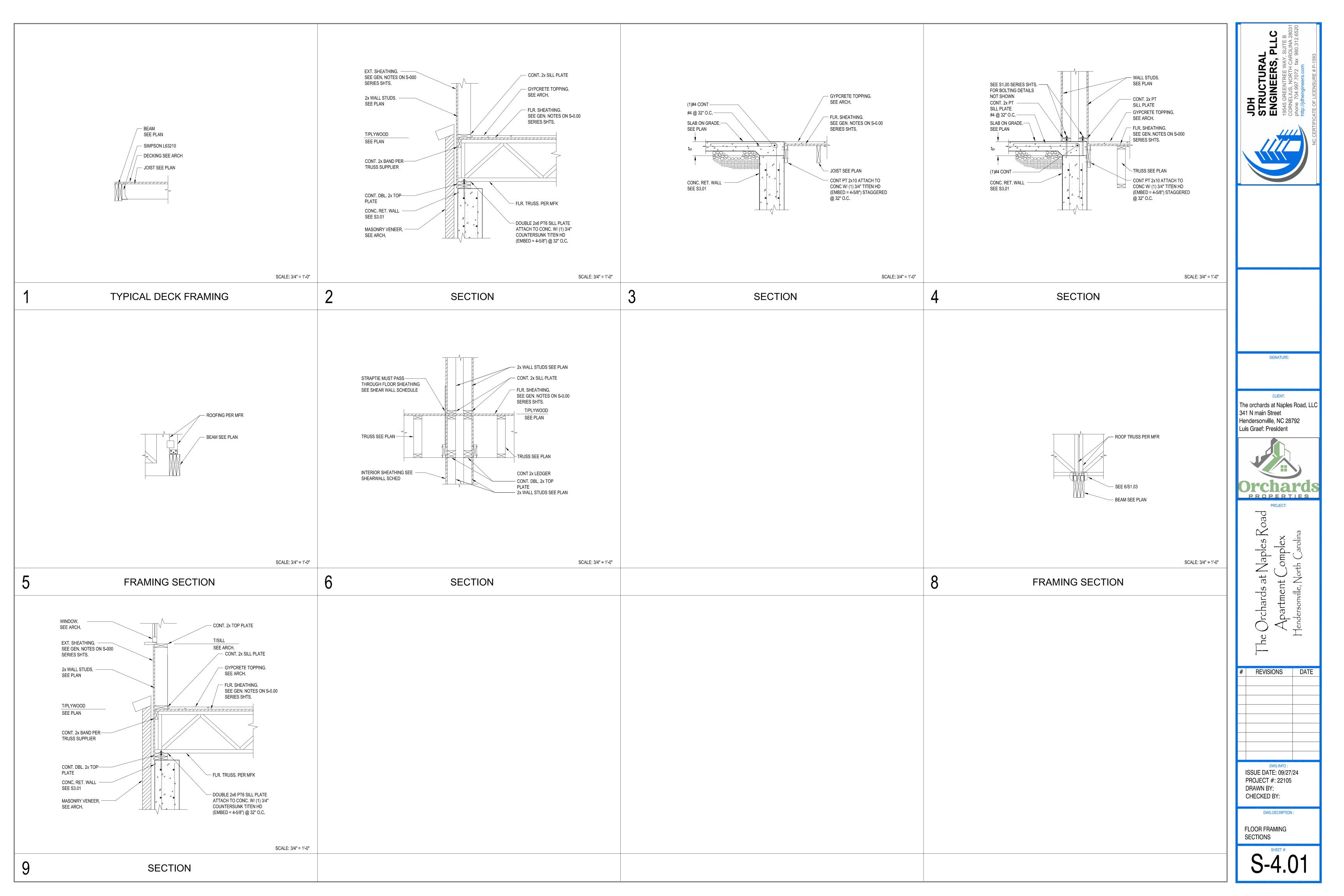
BUILDING 3 ROOF FRAMING PLAN

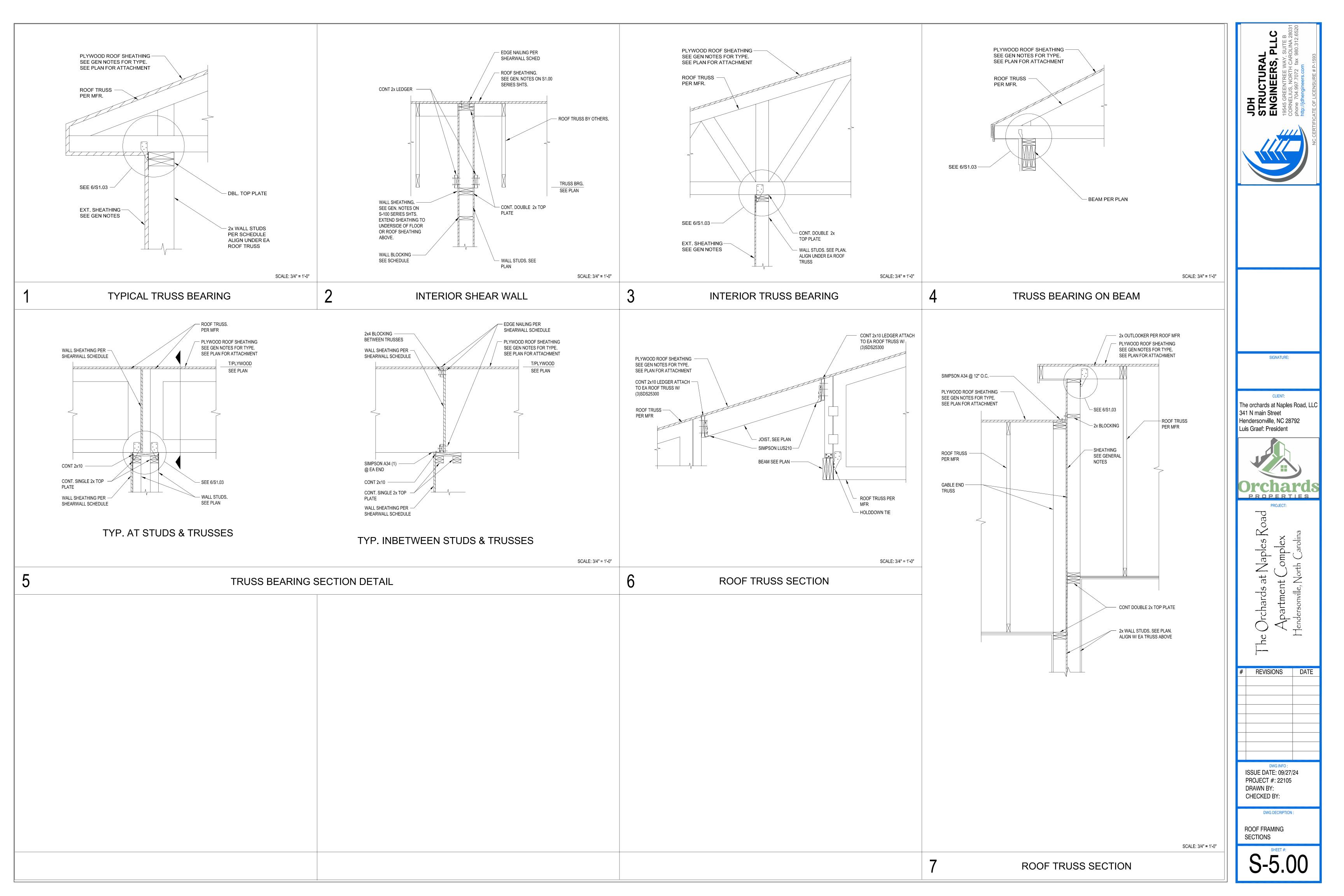
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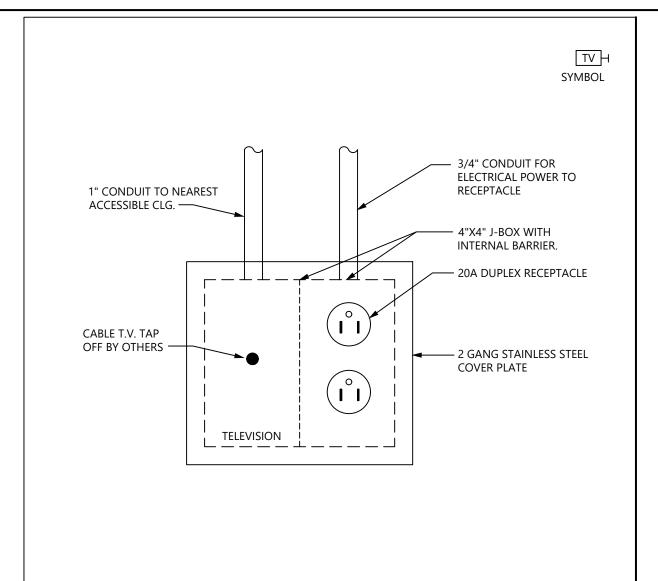




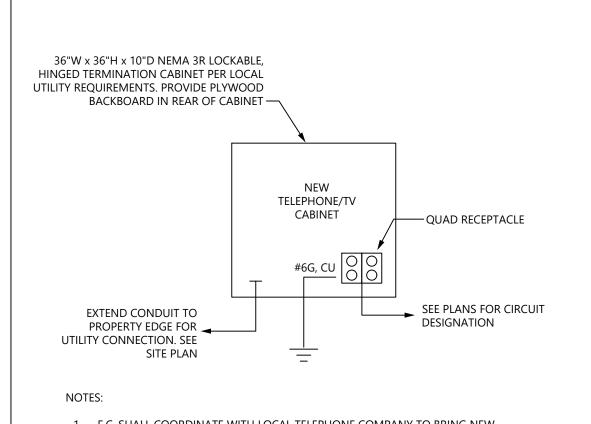








TYPICAL TELEVISION OUTLET DETAIL



- 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).

STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE. LED STRIP FIXTURE. \vdash

 \circ

WALL MOUNTED LED LIGHTING FIXTURE.

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.

₩^P/G 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 LED LIGHTING FIXTURE. 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 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

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.
(5)	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).
0 15CD	ADA COMPLIANT WALL MOUNT FIRE ALARM HORN WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
0 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

ď	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 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

C406.1.3 ENHANCED DIGITAL LTG CNTLS C406.1.6 HI-EFF SERVICE WTR HTG NOT APPLICABLE BASED ON PROJECT SCOPE

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 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

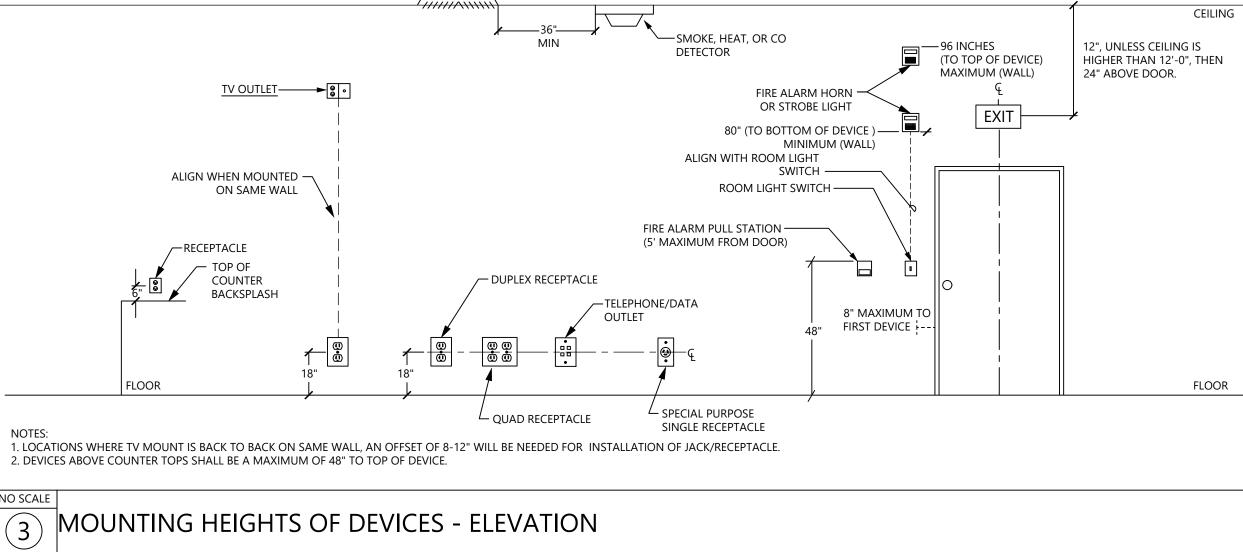


\aple:

REVISIONS

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

DWG DECRIPTION: ELECTRICAL COVER SHEET



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.

- 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. ATTACH EMT WITH CONNECTORS HAVING INSULATED THROAT.
- ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT STUDS TO PREVENT TWISTING OF BOX IN WALL.

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:

- 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 CONDUCTOR.
- 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. E. ALL FIXTURES SHALL BE PROVIDED FOR PROPER VOLTAGE BASED ON THE CIRCUIT ASSIGNMENT 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
- 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 FLEX 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. EQUIPMENT IDENTIFICATION:

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 LIPSTREAM 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 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

PANELS SHALL BE FULLY RATED (AIC). NO SERIES AIC RATINGS ARE ALLOWED.

- 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
- 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.
- COMPATIBLE WITH NFPA 72 18.4.5.3. PROVIDE ALL REPROGRAMMING AND/OR REWORK AND/OR REPLACEMENT OF EXISTING FIRE ALARM PANEL AS REQUIRED.

AUDIBLE DEVICES WITHIN SLEEPING ROOMS SHALL PROVIDE A SQUARE WAVE 520HZ TONE

16. FIRE STOPPING:

JURISDICTION.

- 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.

EQUIPMENT. ALL STARTERS, OTHER THAN MANUAL STARTER SWITCHES, SHALL BE PROVIDED BY

- B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN 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
- D. ALL DISCONNECT SWITCHES AND FUSE SIZES SHALL BE COORDINATED WITH SHOP DRAWINGS 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.

CONTRACTOR, BUT INSTALLED BY THE MECHANICAL CONTRACTOR.

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND LIGHT FIXTURE LOCATIONS ABOVE THE CEILING WITH OTHER TRADES PRIOR TO INSTALLATION. ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED AND CONNECTED BY THE ELECTRICAL
- 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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PROJECT

REVISIONS

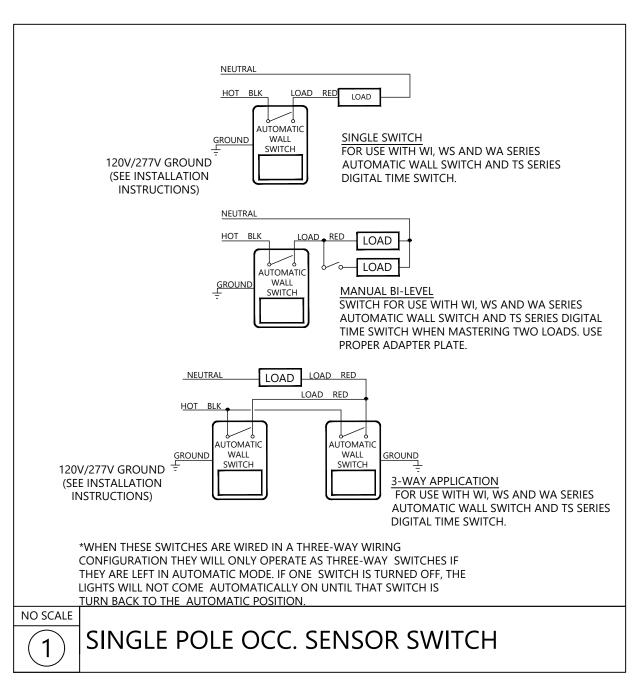
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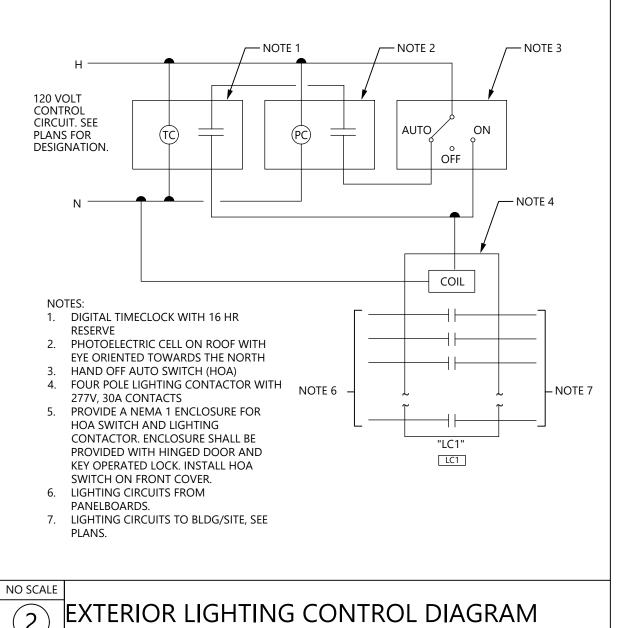
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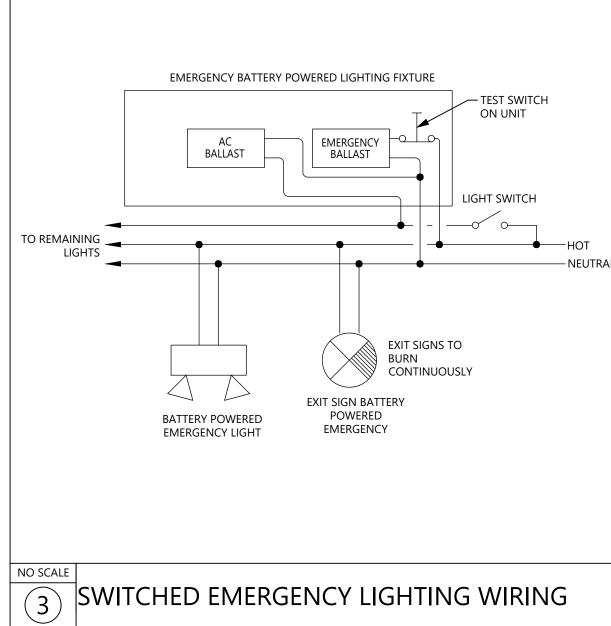
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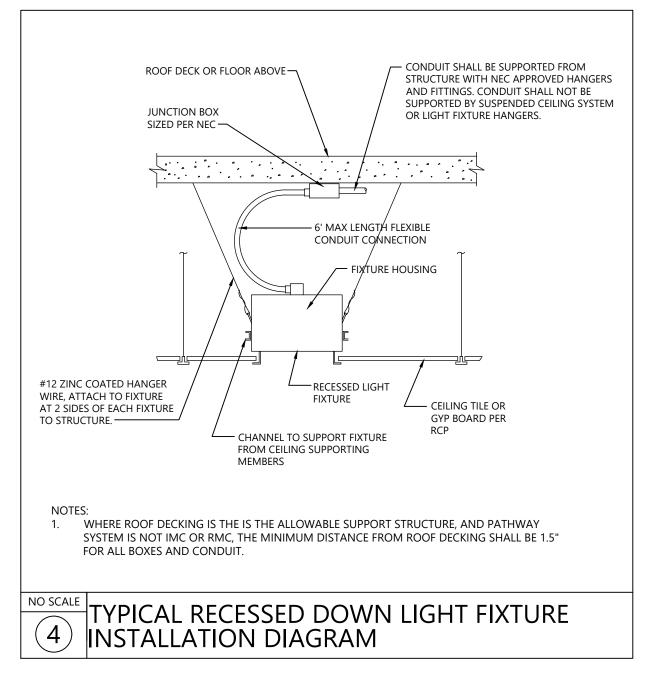
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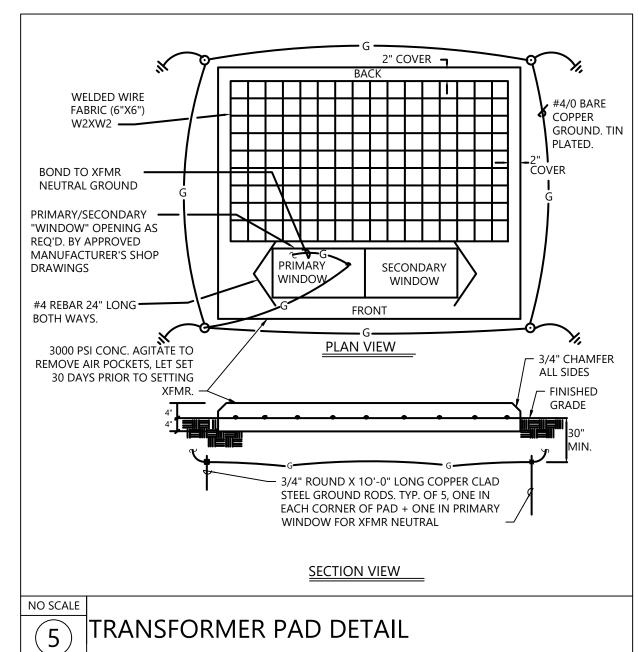
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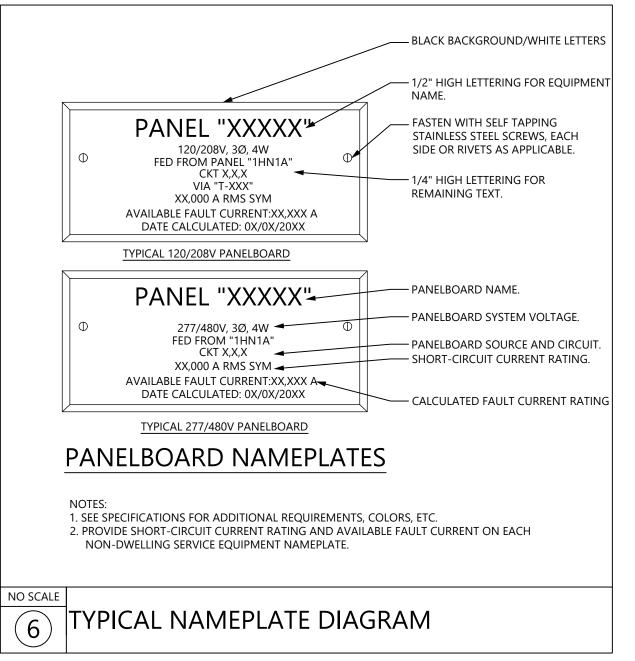


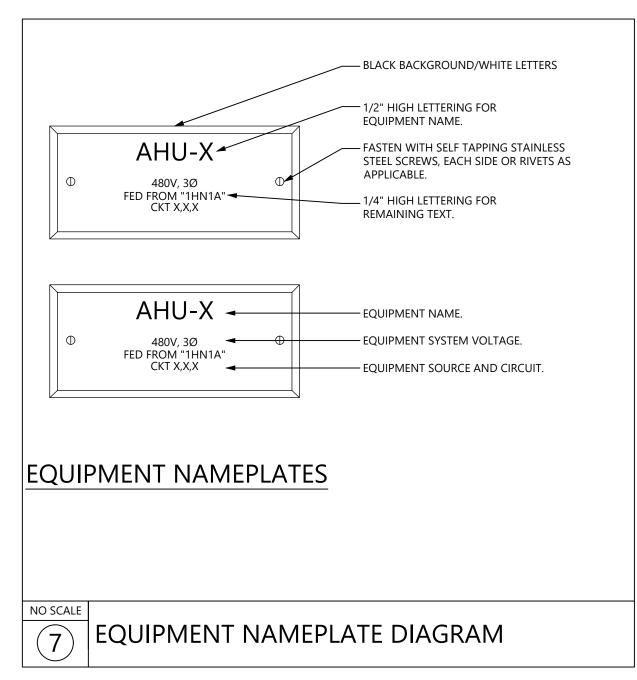


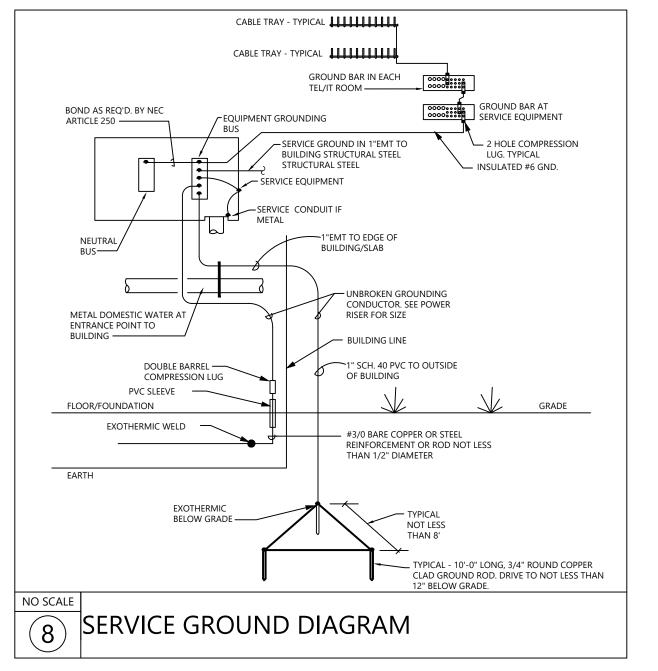


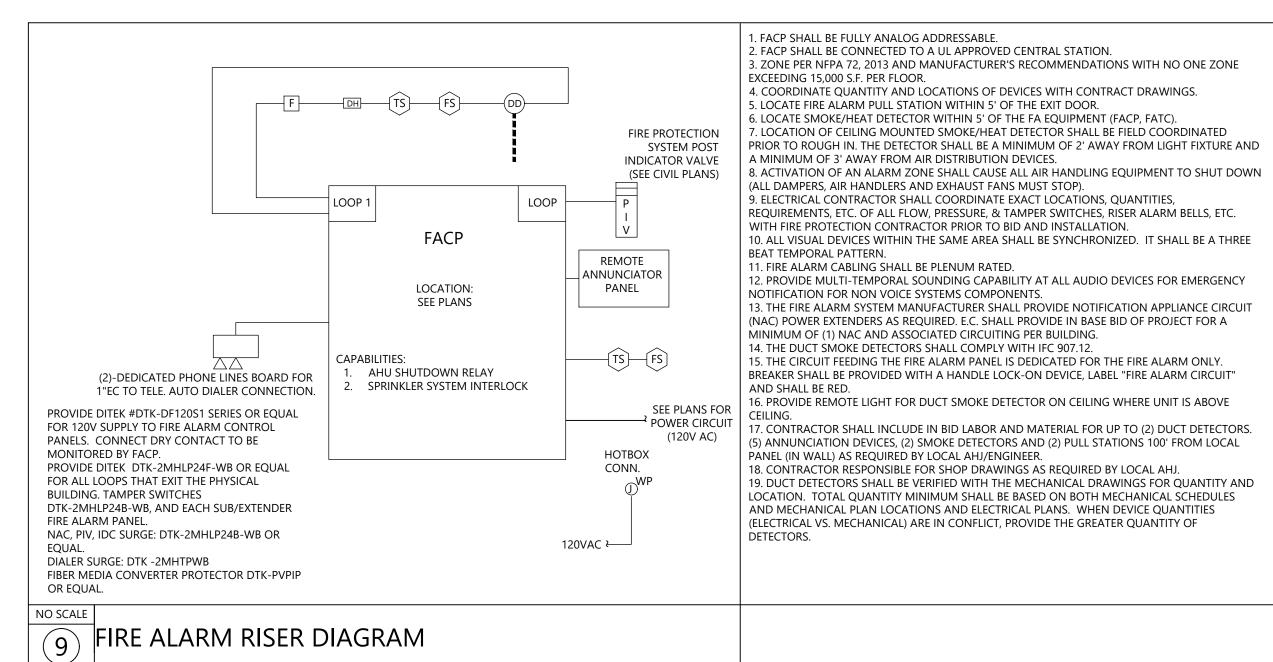


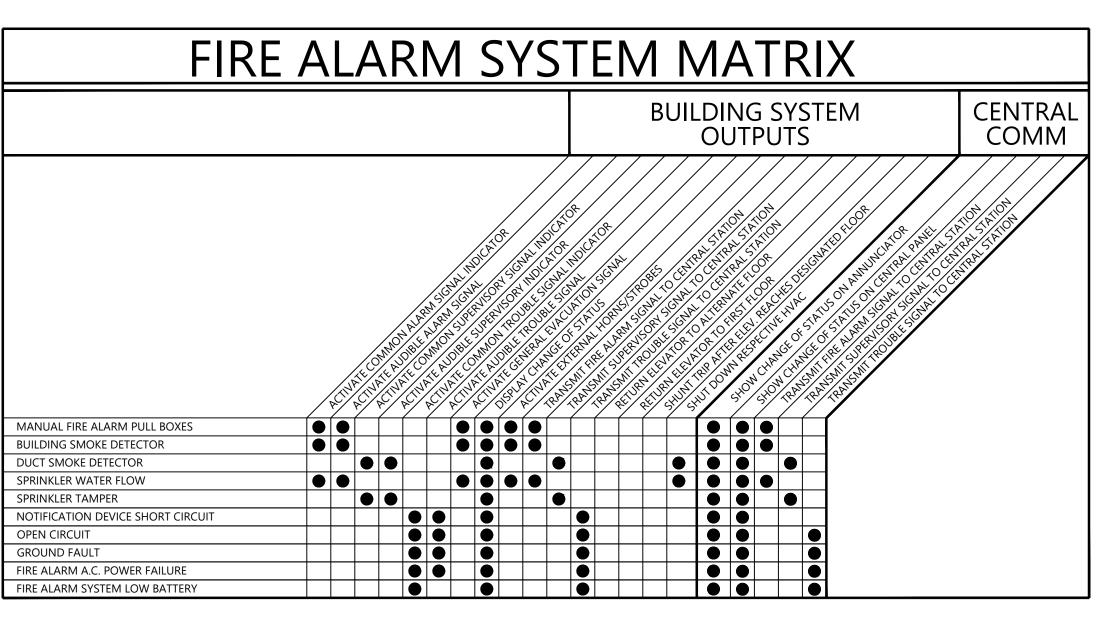


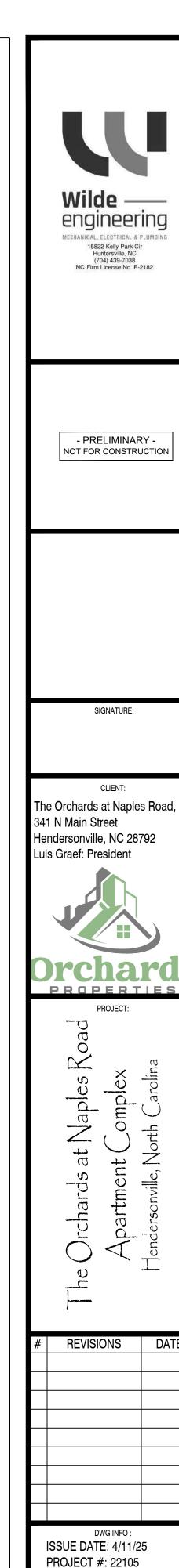










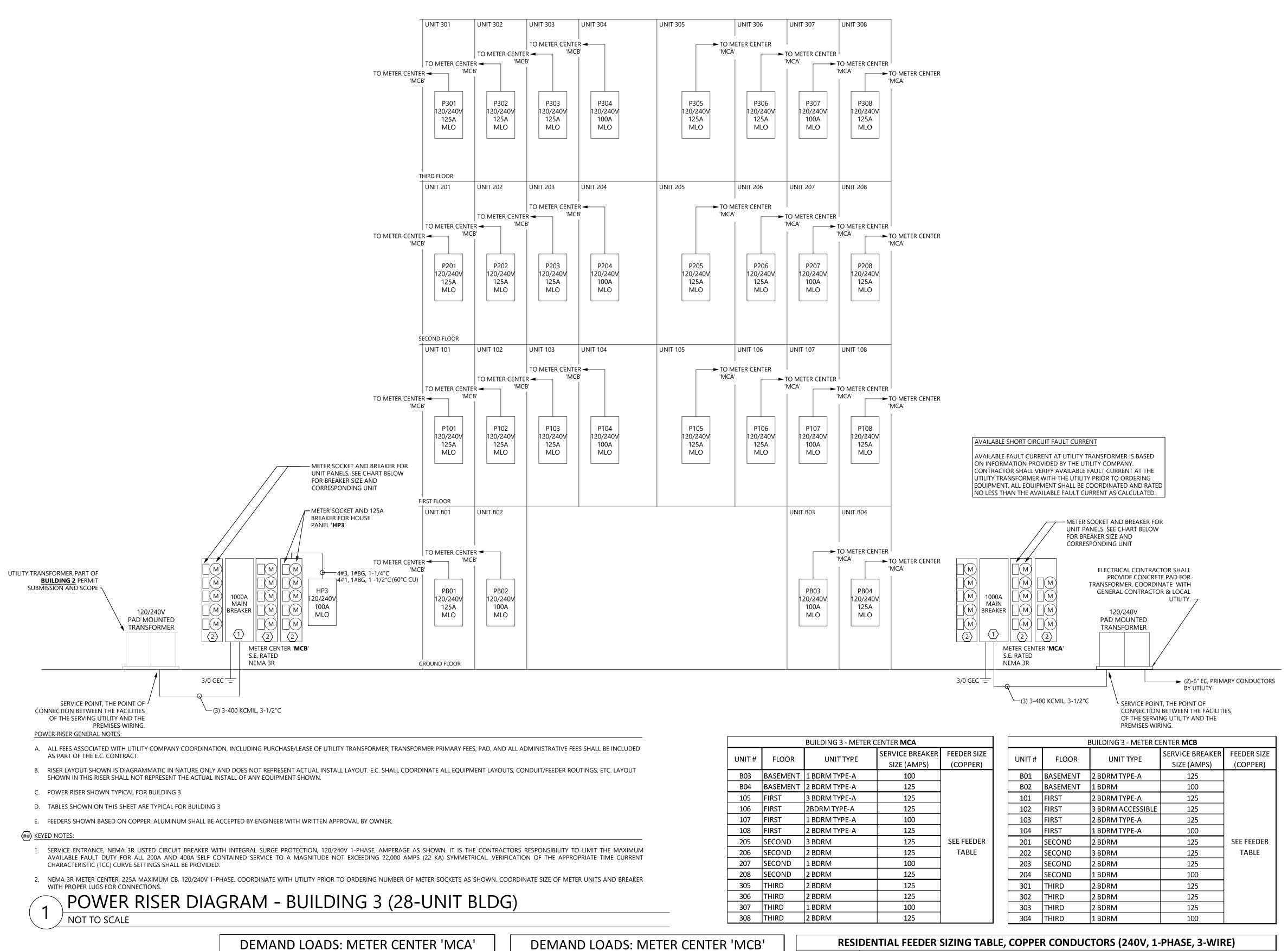


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DWG DECRIPTION:

ELECTRICAL DETAILS



DEMAND LOADS: METER CENTER 'MCA'									
	NUMBER OF UNITS		UNIT KVA		TOTAL KVA				
2 BEDROOM UNIT	8		40.92		327.37	2	BED		
1 BEDROOM UNIT	4		38.11		152.45	1	l BED		
3 BEDROOM UNIT	2		42.07		84.14	3	BED		
TOTAL# OF UNITS	14			TOTAL:	564.0		TOTA		
WITH DEN	/IAND FACT	OR (PER N	EC 220.84)		225.6				
WITH DEMAND FACTOR (PER NEC 220.84) 40% 225.6 KVA TOTAL: 225.6 KVA									
VOLTAGE OF SERVICE: 240 V									
		_	SERVI	CE PHASE:	1	PH			
			TOTALA	MPACITY:	939.9	Α			
	'								

	NUMBER OF UNITS	UNIT KVA		TOTAL KVA
BEDROOM UNIT	8	40.92		327.37
L BEDROOM UNIT	4	38.11		152.45
B BEDROOM UNIT	2	42.07		84.14
TOTAL # OF UNITS	5 14		TOTAL: I	564 O KV/A
TOTAL # OF UNITS	14			
			TOTAL:	564.0 KVA
		(PER NEC 220.84)	40%	225.6 KVA
		(PER NEC 220.84)		******
		(PER NEC 220.84)	40%	225.6 KVA
		(PER NEC 220.84)	40% NEL 'HP1':	225.6 KVA 6.7 KVA
		(PER NEC 220.84)	40% NEL 'HP1': TOTAL:	225.6 KVA 6.7 KVA
		(PER NEC 220.84) PA VOLTAGE OF	40% NEL 'HP1': TOTAL:	225.6 KVA 6.7 KVA 232.3 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#3, 1#8G, 3#2, 1#6G,		3#1, 1#4G,		3#1/0, 1#4G,	
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/		, 1#2G,
110	1-1,	1-1/4"C		1-1/	/2"C 1-1/2		/2"C
125	3#1,	1#6G,	3#1/0	, 1#4G,	3#2/0, 1#4G,		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, 1#4G,		3#3/0, 1#4G,	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	, 1#4G,	3#4/0, 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

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.

CONSULT ENGINEER FOR FEEDERS GREATER THAN 300' IN LENGTH.
 CONDUIT SIZING IS BASED ON "THHN". "THWN". "THWN-2" TYPE CONDU

3. CONDUIT SIZING IS BASED ON "THHN", "THWN", "THWN-2" TYPE CONDUCTORS IN EMT CONDUIT.4. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LUG REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.

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Luis Graef: President



PROPERTIES
PROJECT:

Chartment Complex

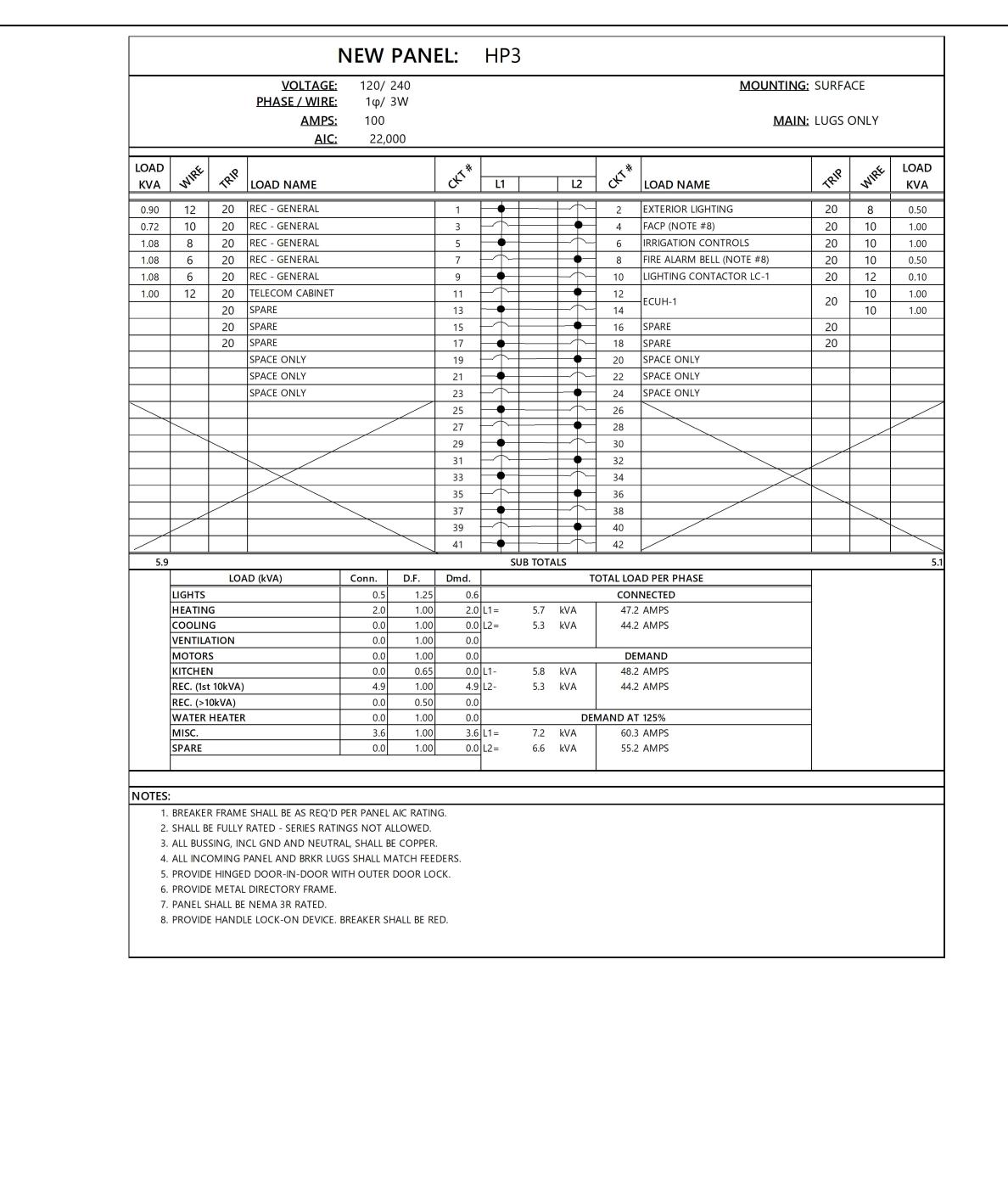
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DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DECRIPTION:

POWER RISER DIAGRAM -BUILDING 3

E-04



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Luis Graef: President



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

DWG DECRIPTION:
PANEL SCHEDULE HOUSE PANEL

E-05

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.

 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 INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
 6. UTILITY TRANSFORMER PART OF **BUILDING 2** PERMIT SUBMISSION AND SCOPE.

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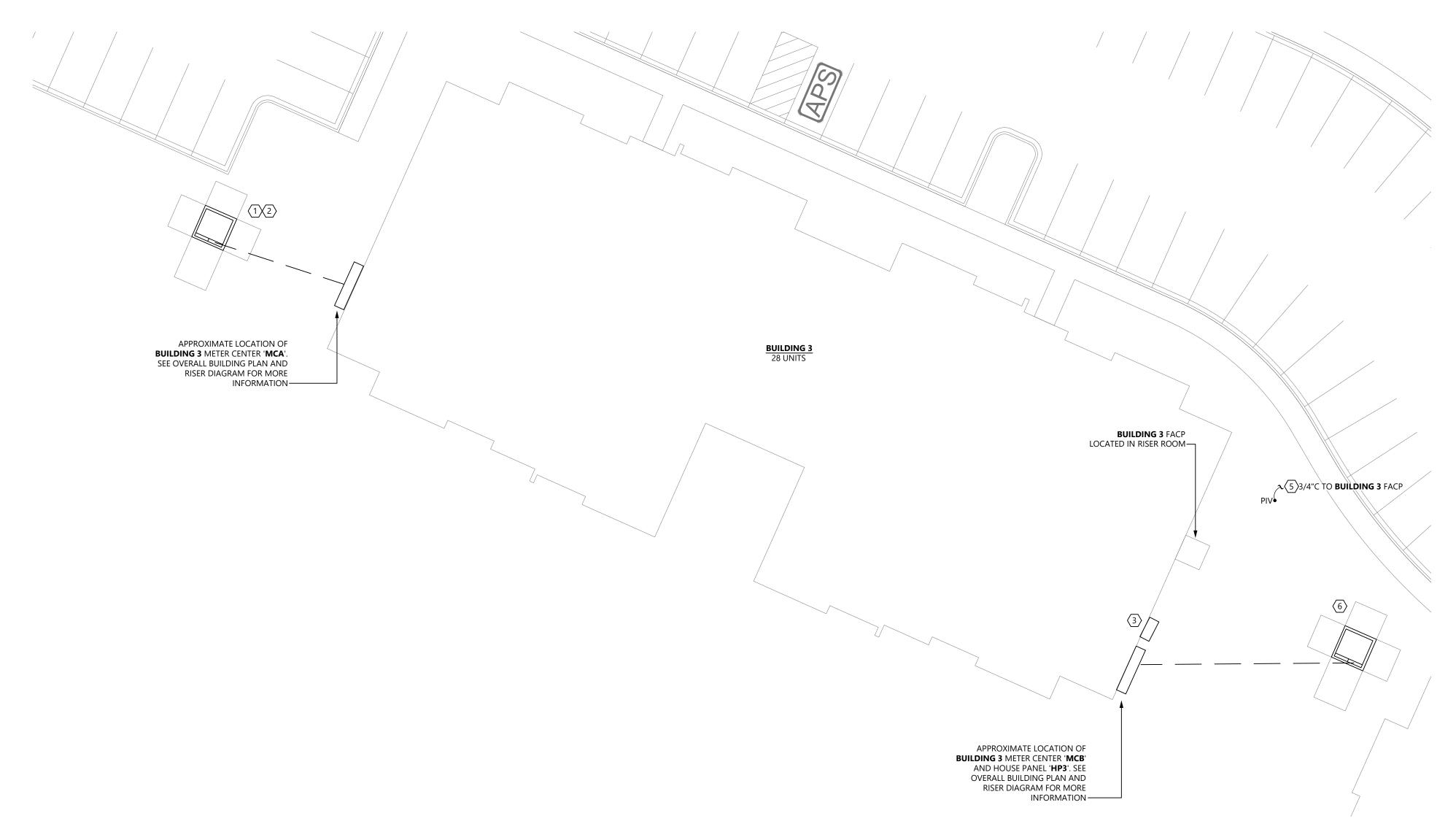
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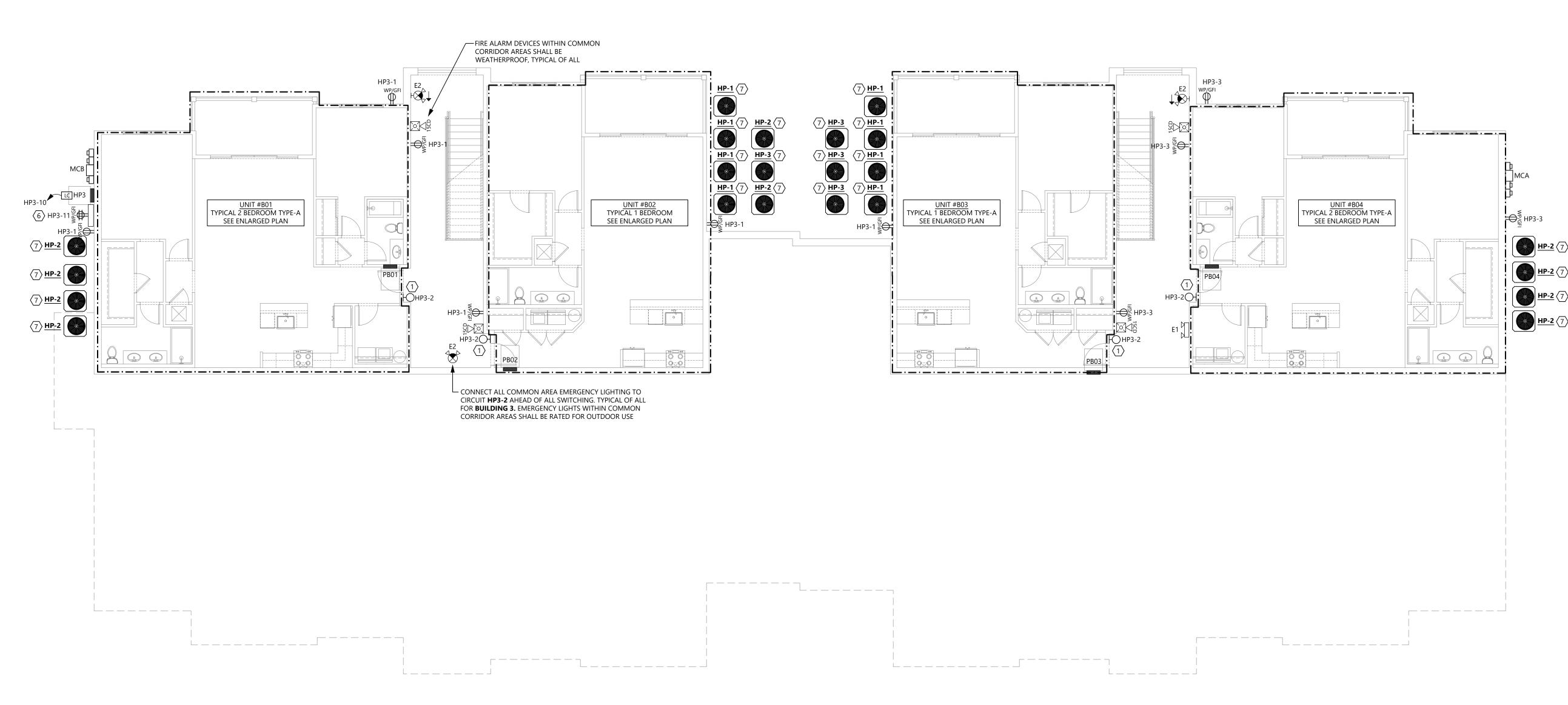
ELECTRICAL SITE PLAN -



ELECTRICAL SITE PLAN - BUILDING 3

1/16"=1'-0"

KEY PLAN (NOT TO SCALE)



OVERALL PLAN - BUILDING 3 (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 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 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.
- 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):

- 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.
- 2. 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.
- 4. 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.
- 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.

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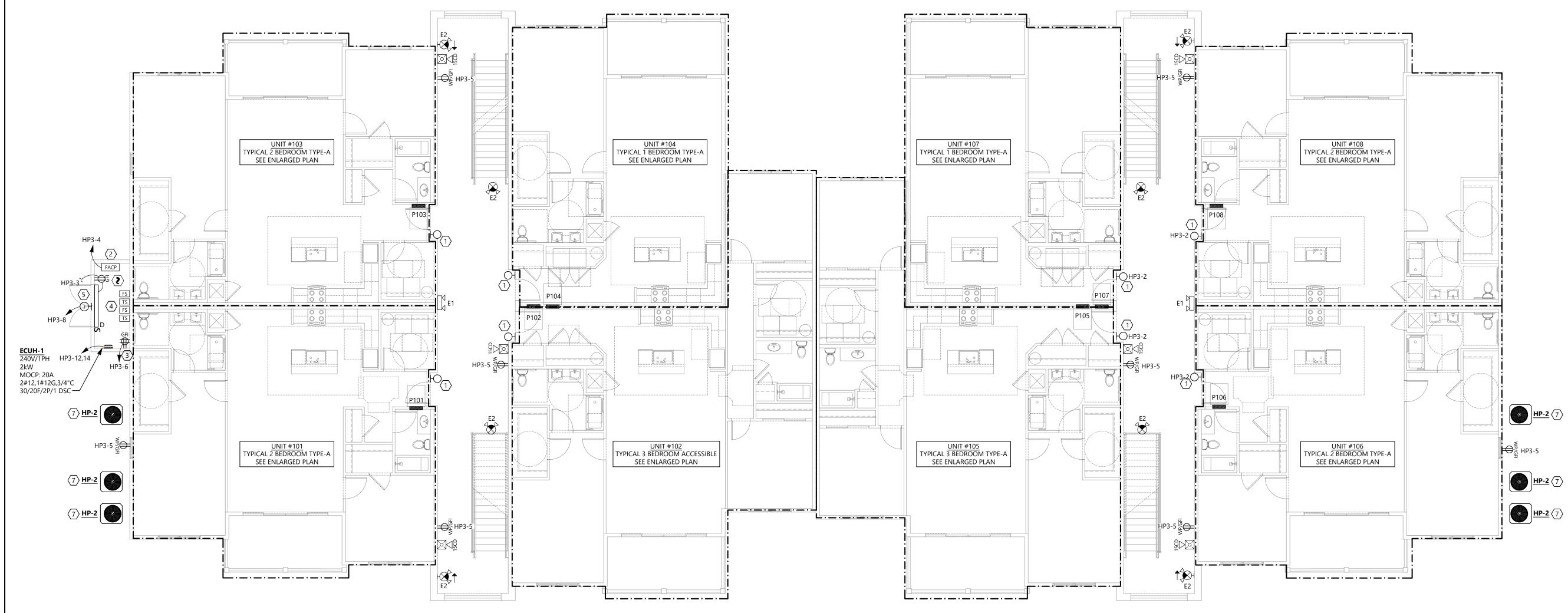
OVERALL ELECTRICAL PLAN - BASEMENT -BUILDING 3

E-21

- " - - - - - -

		MEC	HANICA	AL EQUIPN	IENT C	ONNEC	TION S	CHEDULE - OVERAL	L PLAN				
		EQUIPME	NT CHARA	CTERISTICS	FLA	MCA	МОСР	FEEDER	D	ISCONNEC	CT SWITCH	+	
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	IVICA	WIOCP	FEEDEK	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:													

1 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.



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
- 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 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):

- 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.
- 2. 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.
- 4. 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.

Wilde engineering

MECHANICAL, ELECTRICAL & PLUMBING

15822 Kelly Park Cir
Huntersville, NC
(704) 439-7038

NG Firm License No. P-2182

- PRELIMINARY -NOT FOR CONSTRUCTION

SIGNATURE:

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



PERTIPROJECT:

The Orchards at Naples Roac Apartment Complex Hendersonville, North Carolina

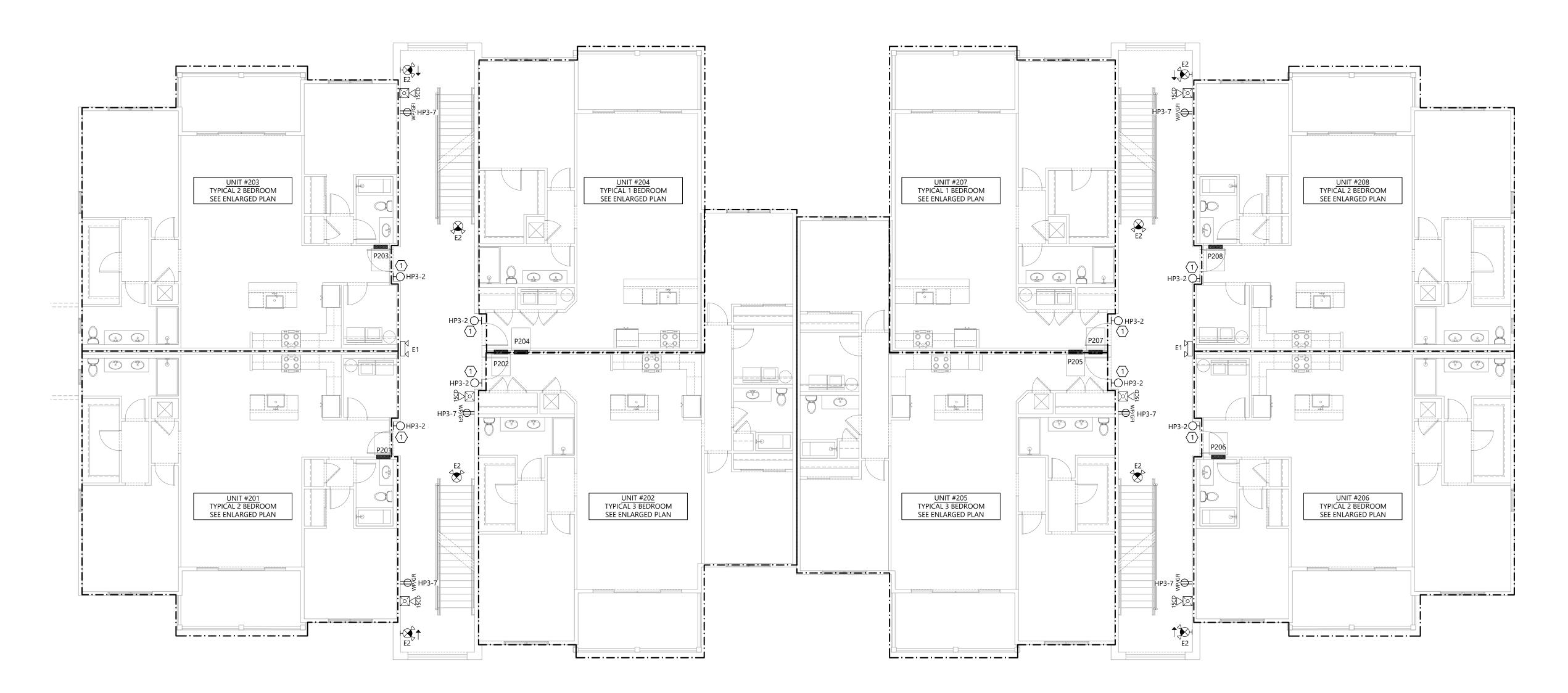
REVISIONS DATE

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

OVERALL ELECTRICAL
PLAN - FIRST FLOOR BUILDING 3

E-22

OVERALL PLAN - BUILDING 3 (28-UNIT BLDG) - FIRST FLOOR



OVERALL PLAN - BUILDING 3 (28-UNIT BLDG) - SECOND FLOOR

1/8"=1'-0"

GENERAL NOTES:

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- 2. 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.
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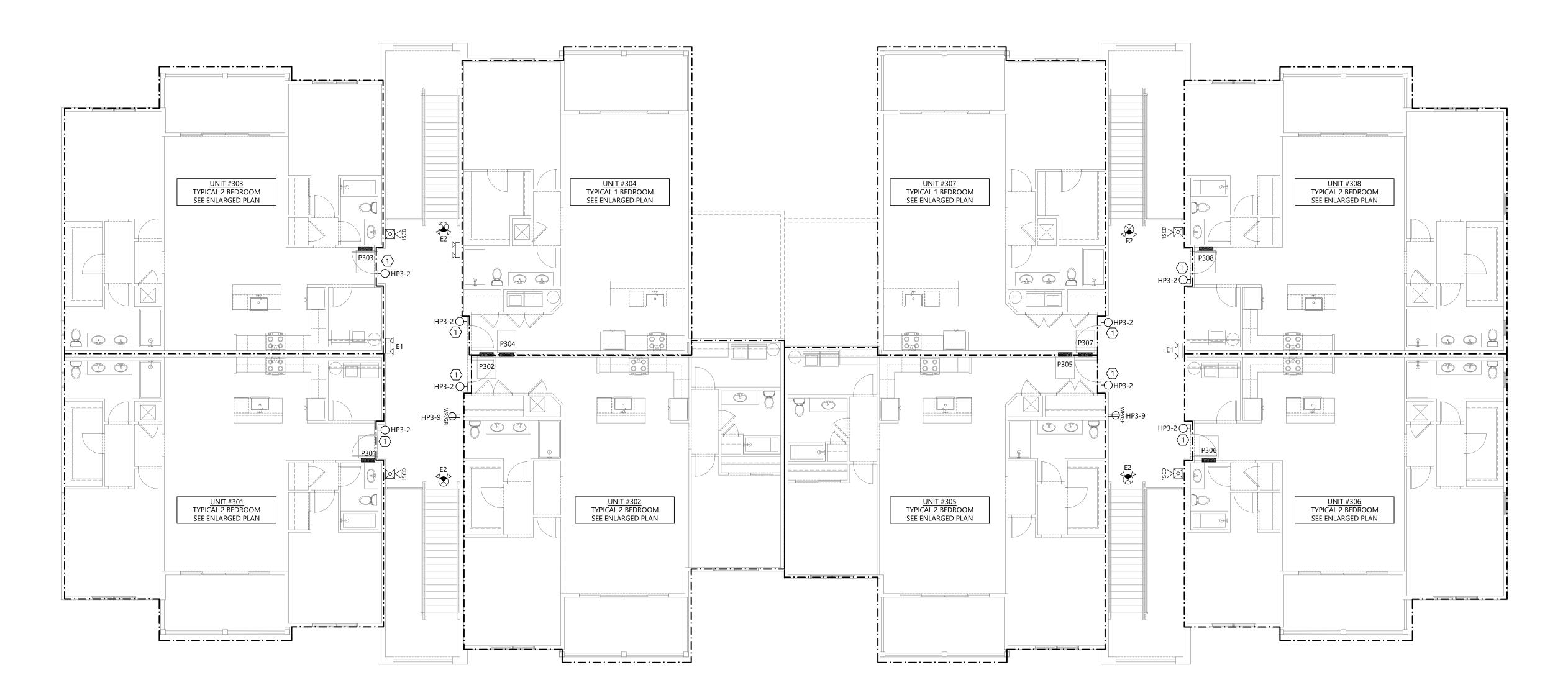
> > SIGNATURE:

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



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

OVERALL ELECTRICAL PLAN - SECOND FLOOR BUILDING 3



OVERALL PLAN - BUILDING 3 (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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Hendersonville, NC 28792
Luis Graef: President



PERTI PROJECT:

he Orchards at Naples Roa Apartment Complex Hendersonville, North Carolina

REVISIONS DATE

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

OVERALL ELECTRICAL PLAN - THIRD FLOOR -BUILDING 3

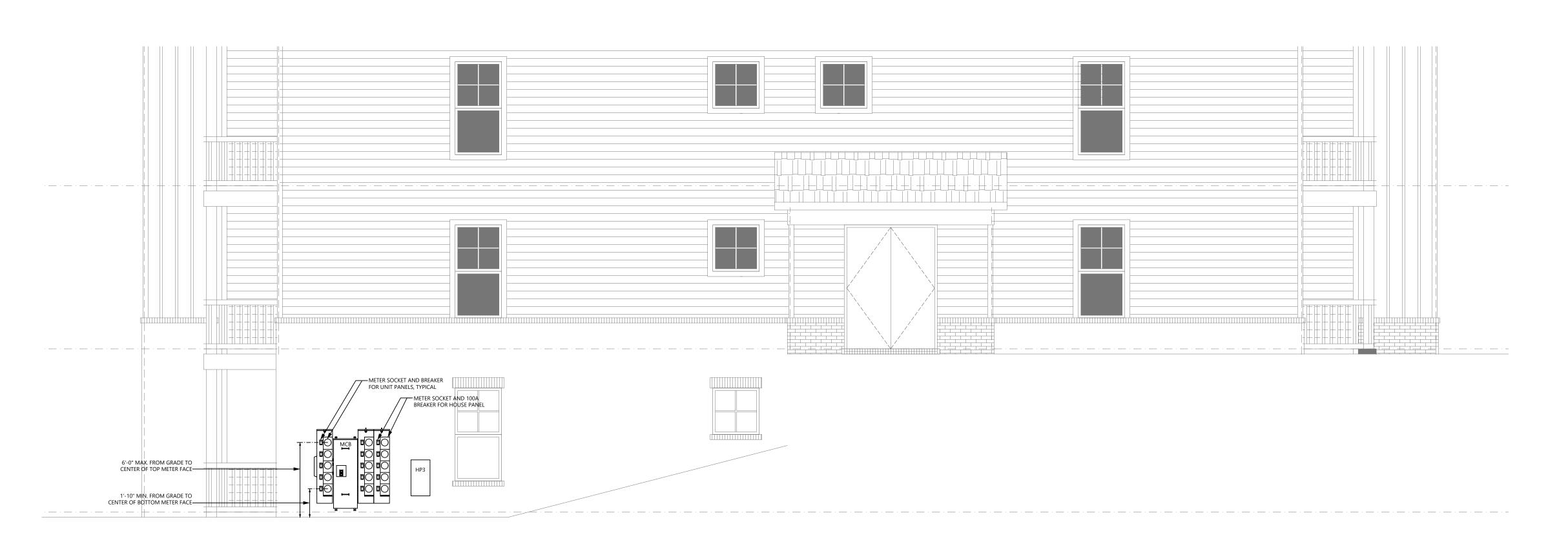
E-24

E #: 24-125



PARTIAL PLAN EAST ELEVATION - BUILDING 3 (28-UNIT BUILDING)

1 1/4"=1'-0"



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2 PARTIAL PLAN WEST ELEVATION - BUILDING 3 (28-UNIT BUILDING)



- PRELIMINARY -NOT FOR CONSTRUCTION

SIGNATURE:

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



PROJECT:

The Orchards at Naples Road
Apartment Complex
Handersonville North Carolina

#	REVISIONS	DATE

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

DWG DECRIPTION:
PARTIAL ELEVATIONS BUILDING 3

E-3

TYPICAL PANEL SCHEDULE FOR 1 BEDROOM UNITS

				NEW	PAN	EL:	1-B	BDRN	/						
			VOLTAGE: PHASE / WIRE: AMPS: AIC:	120/ 3 1φ/ 3 100 10,0	3W							MOUNTIN MA	ig: flush in: lugs (
LOAD KVA	WIRE	TRIP		· ·		ري ^{ز*}	L1		L	2	ريز*	LOAD NAME	TRIP.	WIRE	LOAD KVA
0.00	12	20	LIGHTING			1	•	-		_	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		1			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		0.00
						31					32				
						33					34				
						35					36				
						37					38		\triangleleft		
		/				39					40				
						41					42				
0.0						71	<u> </u>	UB TOTA	٨١٥		72				0
0.0		104	AD (kVA)	Conn.	D.F.	Dmd.		300 1017	113	Т	OTAL LOA	AD PER PHASE			
	LIGHTS		(1.77.)	0.0	1.25	0.0						NECTED	(NOTE #	±10)	
	HEATING			0.0	1.00		L1=	0.0	kVA			AMPS		,	
	COOLIN			0.0	1.00		L2=	0.0	kVA			AMPS			
	VENTILA			0.0	1.00	0.0	1								
	MOTOR			0.0	1.00	0.0	 				DE	MAND	(NOTE #	±10)	
	KITCHEN	N .		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. (>1			0.0	0.50		 								
	WATER	HEATER		0.0	1.00	0.0				DEN	MAND AT	125%	(NOTE #	[‡] 10)	

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

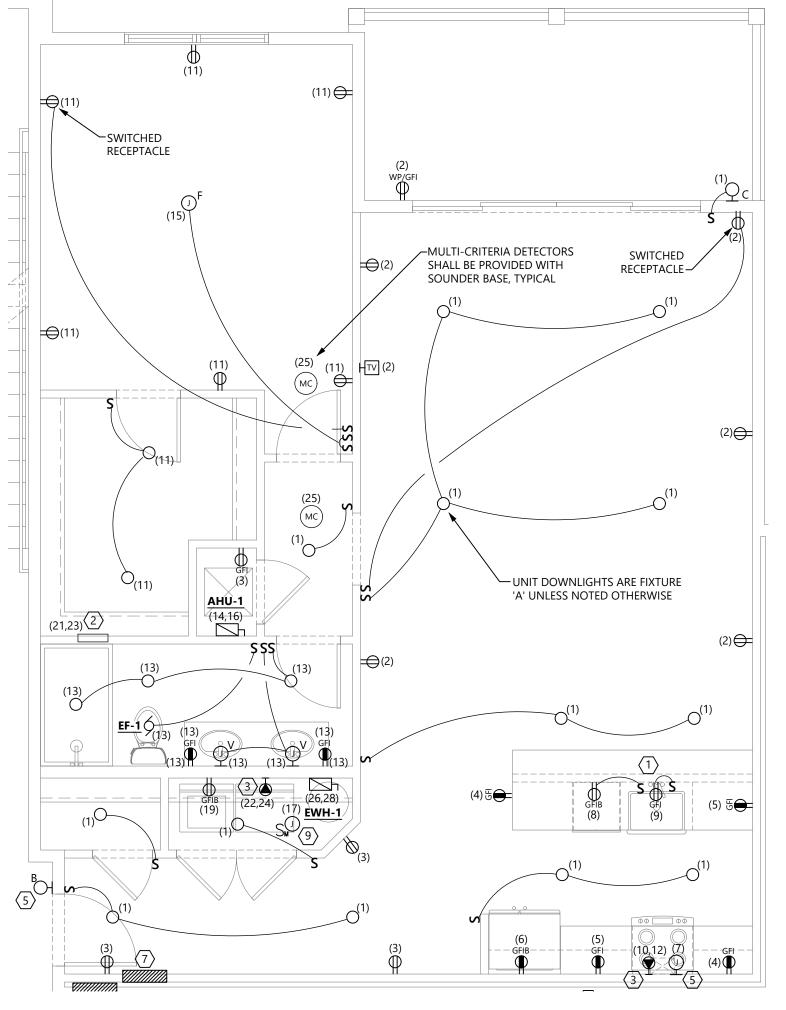
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INSTALLATION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR. 2 FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS				
2 FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS	IATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EC	UIPMENT SUBMITTALS PRIOR TO ROUGH	-IN AND	
	TION. ALL ROUGH-INS SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.			
	'ERED 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	EVARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND S	SIZE EACH UNIT HEAT PUMP TO ACCOUN	Γ 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% 1.60 HP Compressor @ 100% 0.00 kVA > 120 kVA @ 25% 0.00 HP Strip Heat @ 65% 0.00 kVA Remaining L-N Loads @ 100% 4.10 Electric Space Heat @ 40% 0.00 kVA Dryer Load @ 70% 3.50 Electric Thermal & Other Heating 0.00 kVA Range Load @ 70% 4.40 Unbalanced load > 200A @ 70% 0.00 0.00 TOTAL DEMAND LOAD (PHASE) 23.42 g7.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 16.72 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 Disposal 1.00 1 1.00 (1) 20A Ckt for Dishwasher & Dispose Dispos	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 g7.60 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	CONNECT		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 97.60 AMPS TOTAL DEMAND LOAD (NEUTRAL) 16.73 kVA @ 100% 16.74 kVA @ 25% TOTAL DEMAND LOAD (NEUTRAL) 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				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 3.63 kVA 3.64 kVA 3.64 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 y7.60 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/								<u>MOUNTI</u>	NG: FLUSH		
			AMPS: AIC:	100 10,0	000							MA	<u>lin:</u> LUGS (ONLY	
OAD VA	WIRE	TRIP	LOAD NAME			*کی	L1		L2		ريز*	LOAD NAME	TRIP	WIRE	LOAE KVA
.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
00	12	20	REC - KITCHEN			5	•	-		<u> </u>	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	-		+	<u></u>	14	415 1144151 55	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	-	_	1	_	18	LIEAT BURAB	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	•	-	1	<u> </u>	22	D DVE D	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 LIEATER		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	SUB TOT	ALS						
		LOA	AD (kVA)	Conn.	D.F.	Dmd.				TC	TAL LOA	AD PER PHASE			
	LIGHTS			0.0	1.25	0.0					CON	NECTED	(NOTE #	10)	
	HEATING	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			
	VENTILA			0.0	1.00	0.0									
	MOTORS			0.0	1.00	0.0		0.0	1174	Т		MAND	(NOTE #	10)	
	KITCHEN			0.0	0.65		L1-	0.0	kVA			AMPS			
	REC. (1st REC. (>1			0.0	1.00 0.50	0.0	1	0.0	kVA		0.0	AMPS			
	WATER		,	0.0	1.00	0.0				DEM	1AND AT	125%	(NOTE #	±10)	
	MISC.	EATEN	•	0.0	1.00		L1=	0.0	kVA	- LIV		AMPS	(14512#	.0,	
	SPARE			0.0	1.00		L2=	0.0	kVA			AMPS			
TES:		r frame	E SHALL BE AS REQ'D	PER PANEL	AIC RATIN	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.

6. PROVIDE METAL DIRECTORY FRAME.

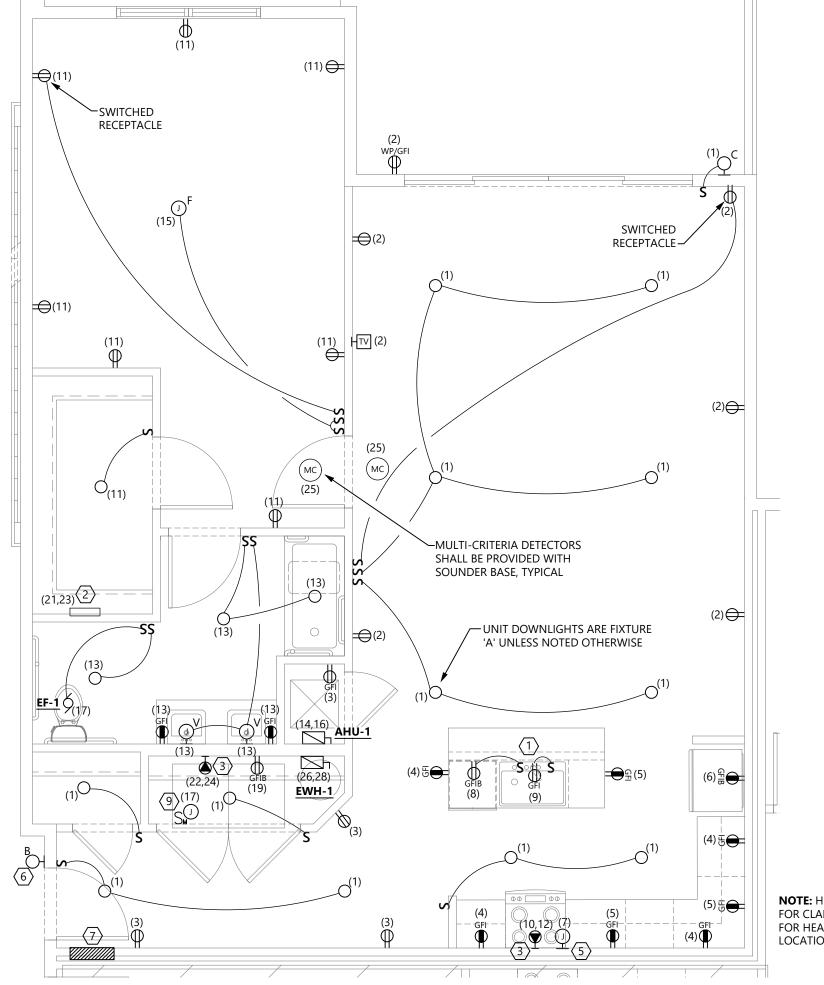
TYPICAL LOAD SUMMARY FOR 1 BEDROOM & 1 BEDROOM TYPE-A UNITS

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	mennar & 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		

		EQUIPMENT CHARACTERISTICS		FLA	BAC A	МОСР	FFFFF	D					
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	N	MOTOR SN	AP SWITCH	i	1,2
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 50 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.
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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
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- 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.

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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 UNITS

				NEW	PAN	EL:	2-BD	RM					
			VOLTAGE: PHASE / WIRE: AMPS: AIC:	1φ/ 125	3W					MOU	INTING: FLUSH		
LOAD KVA	WIRE	TRIP	LOAD NAME			U\(\frac{*}{}	L1	L2	. UX*	LOAD NAME	TRIP	WIRE	LOAD KVA
0.00	12	20	LIGHTING			1	—		- 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	RANGE	50	6	0.00
0.00	12	20	REC - MASTER BEDF	ROOM		11		•	12	RANGE	50	6	0.00
0.00	12	20	MASTER BATHROOM	Л		13	•		14	AIR HANDLER	25	10	0.00
0.00	12	20	FAN - MASTER BEDF	ROOM		15		•	16	TAIR HAINDLER	25	10	0.00
0.00	12	20	DRYER BOOSTER FA	N		17	•		18	HEAT PUMP	20	8	0.00
0.00	12	20	WASHER (NOTE #7)			19	$- \uparrow +$	•	20	TILAT FOWIF	20	8	0.00
0.00	12	20	TELECOM BOX			21	•		22	DRYER	30	10	0.00
0.00	12	20	TELECOM BOX			23	$- \uparrow -$	•	24	DRIER	30	10	0.00
0.00	12	20	FIRE ALARM (NOTE	#8)		25	\vdash		26	-WATER HEATER	50	6	0.00
0.00	12	20	REC - BEDROOM #2			27		•	28	WATER REALER	50	6	0.00
0.00	12	20	BATHROOM #2			29	•		30	SPARE	20		
0.00	12	20	FAN - BEDROOM #2	2		31		•	32	SPARE	20		
		20	SPARE			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	+	$\overline{}$	42	SPARE	20		
0.0	•						SUB	TOTALS			<u> </u>		0.0
	LOAD (kVA) Conn. D.F. Dmd.							Т	OTAL LO	AD PER PHASE			

HEATING

COOLING

MOTORS

KITCHEN

SPARE

VENTILATION

REC. (1st 10kVA)

WATER HEATER

REC. (>10kVA)

- 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.

1.00

1.00

0.0 1.00

0.0 0.65

0.0 1.00

0.0 1.00

0.0

0.0

0.0 L2=

0.0 L2-

0.0 L1=

0.0 L2=

0.0 kVA

0.0 kVA

0.0 kVA

0.0 kVA

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

		MECH	ANICAL	EQUIPME	NT CO	NNECT	ION SCH	IEDULE - 2 BEDRO	OM UNI	TS			
		EQUIPME	NT CHARAC	CTERISTICS	FLA	NACA	МОСР	FEEDER	D	ISCONNE	CT SWITCI	Н	
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	MCA	IVIOCP	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	-	-	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	MOTOR SN	AP SWITCH	1	1,2
NOTES:													
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CON	INECTION T	YPES, BREAKER	SIZES, ETC	. WITH API	PROVED ME	CHANICAL EQUIPMENT SUB	MITTALS PR	IOR TO RO	UGH-IN A	ND	
	INSTALLATION. ALL ROUGH-INS S	SHALL BE REVI	EWED AND A	APPROVED BY N	MECHANIC	AL CONTR	ACTOR.						
2	FAN POWERED VIA LOCAL LIGHT	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

CONNECTED

0.0 AMPS

0.0 AMPS

DEMAND

0.0 AMPS

0.0 AMPS

0.0 AMPS

DEMAND AT 125%

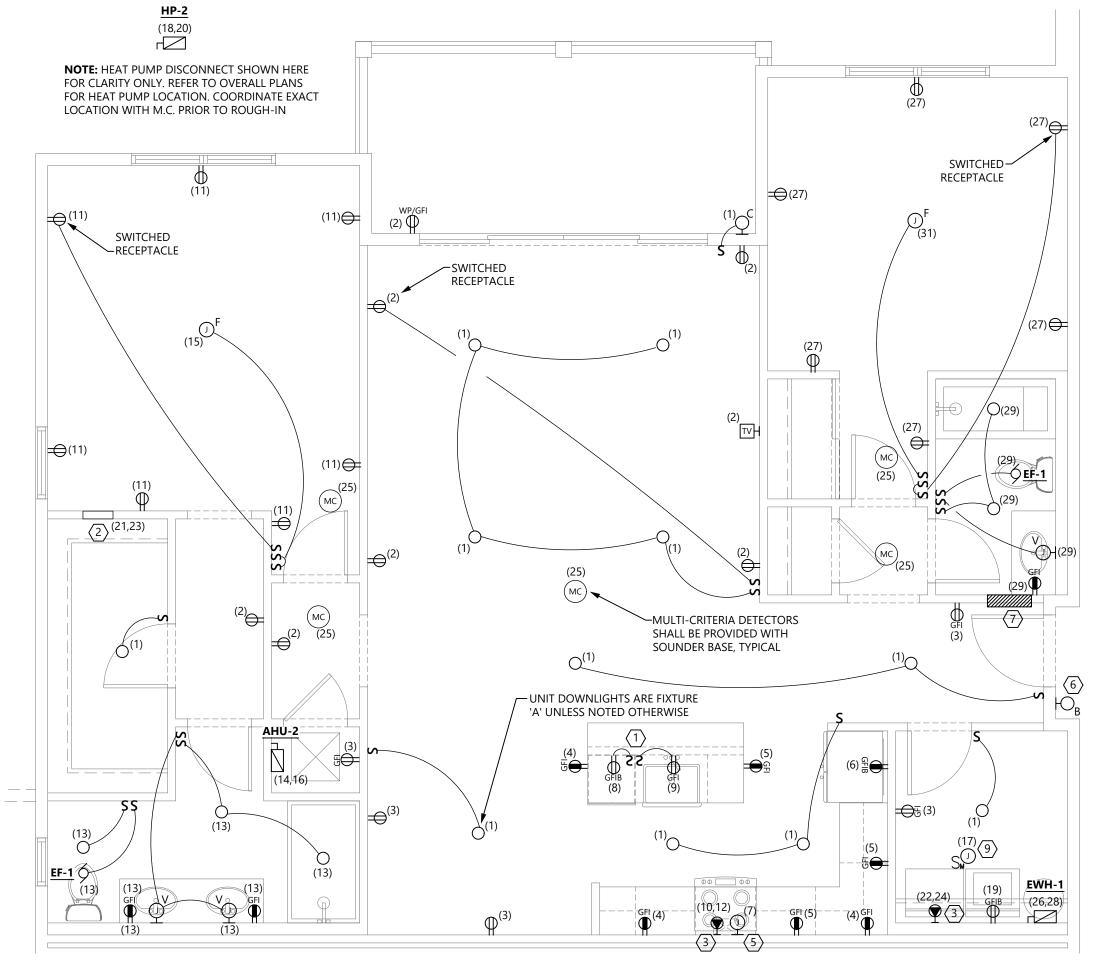
(NOTE #10)

(NOTE #10)

(NOTE #10)

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

Voltage (L-L):	240	Volts	Pro	ject Name:	Naples Road Apartments		
Phase:	1			Project #:			
Floor Area:	1427	Sq 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		
Electric Space Heat (240V)		0.00	0	0.00	Thermal & Other Heating".	, = =:556	
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 Clyt fan Diahuwahan	9. Diamanal	
Dishwasher		0.80 1.00	1	0.80	(1) 20A Ckt for Dishwasher	•	
Disposal Microwave		1.50	1	1.00	(1) 20A Ckt for Dishwasher	& Disposai	
Refrigerator		0.80		0.80	 Examples of fastened in pla	ce annliances are	
Kenigerator		0.00	Ö	0.00	compactors, furnace motors		
		0.00	Ö	0.00	pumps, etc. Add these app		
		0.00	Ö	0.00	where applicable.		
		0.00	Ō	0.00			
TOTAL CONN	ECT	ED LOAD	FOR UNIT	40.92	kVA		
DEMAND LOAD	(PHA	ASE)			DEMAND LOAD (NEUT	RAL)	
1st 10 kVA @ 100%	Ì	10.00	kVA	Gen Ltg, S	Small Appliance, Laundry	8.78	
Remaining @ 40%		10.1924	kVA	-	1st 3 kVA @ 100% 3.		
A/C & Cooling @ 100%		5.44	kVA	> 3 kV	A to 120 kVA @ 35%	2.02 kVA	
HP Compressor @ 100%			kVA	II .	kVA @ 25%	0.00 kVA	
HP Strip Heat @ 65%			kVA	Remaining L-N Loads @ 100% 4.10 k			
Electric Space Heat @ 65%			kVA	Dryer Loa	_	3.50 kVA	
Electric Space Heat @ 40%			kVA	•	ad @ 70%	4.48 kVA	
Electric Thermal & Other Heating		0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00 kVA	
TOTAL DEMAND LOAD (PHAS	SE)	25.63 106.80	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.10 kVA 71.26 AMPS	
Quantity of 15A general light	ing c			3	AMP RATING OF THE GEN	IERAL LIGHTING	
<u>OR</u> Quantity of 20A general light	ing c	ircuits (w/	AFCI-P) =	2	RECEPTACLE CIRCUIT(S) INDICATED IN THE PANEL		
NOTES:							
1. Calculations are based on a 1	20/24	40-Volt, 1-	Phase, 3-\	Vire			



- 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.

2"EC WITH PULL STRING BACK TO BUILDING TELECOM DEMARC LOCATION.

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. MEDIA ENCLOSURE. PROVIDE (2) DUPLEX RECEPTACLES AND MOUNT IN BOTTOM OF MEDIA ENCLOSURE. COORDINATE LOCATION AND HEIGHT IN FIELD WITH OWNER. PROVIDE
- 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. 9. JUNCTION BOX, MOTOR SNAP SWITCH AND POWER FOR DRYER BOOSTER FAN. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH M.C. PRIOR TO ROUGH-IN.

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 CEILING FAN RATED JUNCTION BOX, CONNECT TO CIRCUIT SHOWN ON PLANS AND PANEL SCHEDULES. FAN TO BE SELECTED 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.

ENLARGED UNIT PLAN SYMBOLS LIST

MULTI CRITERIA DETECTOR. CONNECT TO CIRCUIT SHOWN ON

CIRCUIT AND SWITCH SHOWN ON PLANS.

AND PANEL SCHEDULES

BY OWNER

NOTE: REFER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS NOT SHOWN ABOVE

DWG DECRIPTION:

ENLARGED UNIT PLAN -

- PRELIMINARY -

NOT FOR CONSTRUCTION

The Orchards at Naples Road,

PROPERTIES

PROJECT:

Naple

REVISIONS

ISSUE DATE: 4/11/25

PROJECT #: 22105

DRAWN BY: MFL

CHECKED BY: JK

2 BEDROOM

Hendersonville, NC 28792 Luis Graef: President

341 N Main Street

ENLARGED UNIT PLAN - 2 BEDROOM 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 DOUBLE GANG, RECESSED JUNCTION BOX FOR VANITY LIGHT FIXTURE. FIXTURE TO BE SELECTED BY OWNER. CONNECT TO 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.

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TYPICAL PANEL SCHEDULE FOR 2 BEDROOM TYPE-A UNITS

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

LOAD KVA	WIRE	TRIP	LOAD NAME	*کین	L1	L2	[*] کین	LOAD NAME	TRIP	WIRE	LOAD KVA
0.00	12	20	LIGHTING	1	—		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	RANGE	50	6	0.00
0.00	12	20	REC - MASTER BEDROOM	11		•	12	RANGE	30	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		+	16	TAIR HAINDLER	23	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	THEAT FOIMF	20	8	0.00
0.00	12	20	TELECOM BOX	21	\vdash		- 22	- DRYER	30	10	0.00
0.00	12	20	TELECOM BOX	23		•	24	DATER	30	10	0.00
0.00	12	20	FIRE ALARM (NOTE #8)	25	-	+	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	—		30	SPARE	20		
0.00	12	20	FAN - BEDROOM #2	31		•	32	SPARE	20		
		20	SPARE	33	\vdash	+	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		
0.0						LIR TOTALS					0.0

0.0					SUB TOT	ALS		
	LOAD (kVA)	Conn.	D.F.	Dmd.		Т	OTAL 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

		EQUIPME	NT CHARAC	CTERISTICS	FLA	NAC A	МОСР	CEEDED	D	ISCONNE	T SWITCH	1	
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	MCA	IVIOCP	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	-	-	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		10TOR SN	AP SWITCH	1	1,2

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

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 PLAN 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 REQUIRE IN HEARING IMPAIRED UNITS). REFER TO ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS.

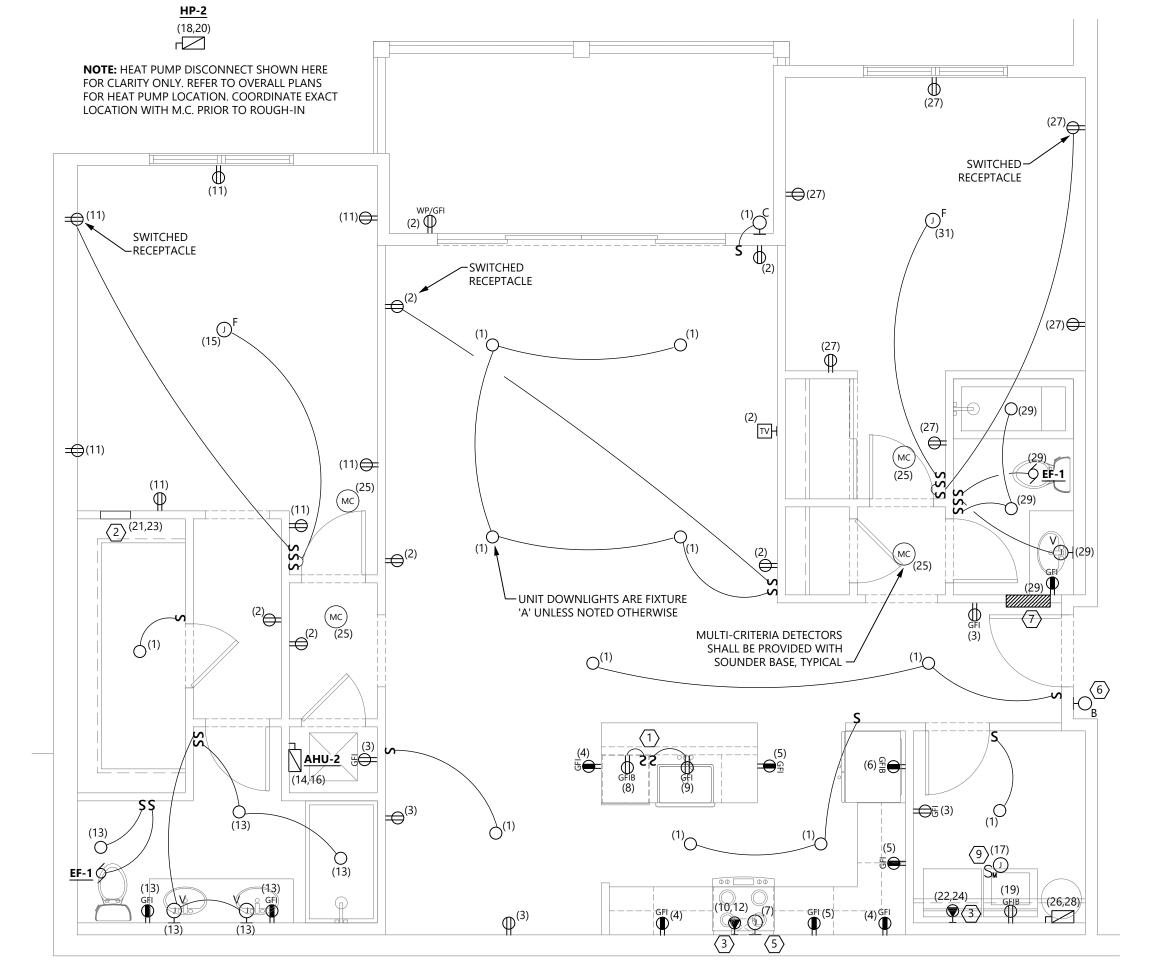
CIRCUIT AND SWITCH SHOWN ON PLANS.

ENLARGED UNIT PLAN SYMBOLS LIST

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

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

LOAD			•	24-125 Matt Lewis 3/13/2025	
LOAD	kVA	QTY	kVA	NOTES	
Seneral Lighting Load	4.28	1	4.28	3 VA/SF	
2) Small Appliance Circuits	3.00	1 1	3.00	(2) Dedicated 20A Ckts (w/	GECLD)
aundry Circuit	1.50		1.50	Dedicated 20A Ckt	Of Oi-i
Electric Range	8.00	1 1	8.00	Dedicated 20/4 CKt	
Clothes Dryer	5.00	1	5.00		
A/C and Cooling (240V)	5.44	1	5.44	_	
HP Compressor (240V)	2.65	Ö	0.00	Enter quantity for only the la	•
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	Heat", or "Electric
Elec Thermal / Other (240V)	0.00	0	0.00	Thermal & Other Heating".	
Vater Heater (240V)	9.60	1	9.60		
Vater Heater (120V)	1.50	0	0.00		
) Dishwasher	0.80	1	0.80	(1) 20A Ckt for Dishwasher	& Disposal
Disposal	1.00	1	1.00	(1) 20A Ckt for Dishwasher	•
⁄licrowave	1.50	1	1.50		•
Refrigerator	0.80	1	0.80	Examples of fastened in pla	ice appliances are
	0.00	0	0.00	compactors, furnace motors	s, attic fans, water
	0.00	0	0.00	pumps, etc. Add these app	oliances individually
	0.00	0	0.00	where applicable.	
	0.00	0	0.00		
TOTAL CONNECT	ED LOAD	FOR UNIT	40.92	kVA	
DEMAND LOAD (PH	ASE)			DEMAND LOAD (NEUT	RAL)
st 10 kVA @ 100%	10.00	kVA	Gen Ltg, \$	Small Appliance, Laundry	8.78
Remaining @ 40%	10.1924	kVA	1st 3 k	VA @ 100%	3.00 kVA
VC & Cooling @ 100%	5.44	kVA	> 3 kV	'A to 120 kVA @ 35%	2.02 kVA
HP Compressor @ 100%		kVA	> 120	kVA @ 25%	0.00 kVA
IP 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%		kVA		ad @ 70%	4.48 kVA
Electric Thermal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00 kVA
TOTAL DEMAND LOAD (PHASE)	25.63 106.80	kVA AMPS	TOTAL D	EMAND LOAD (NEUTRAL)	17.10 kVA 71.26 AMPS
Quantity of 15A general lighting	circuits (w/	AFCI-P) =	3	AMP RATING OF THE GEN	NERAL LIGHTING 8
OR	`	,		RECEPTACLE CIRCUIT(S)	
Quantity of 20A general lighting	circuits (w/	AFCI-P) =	2	INDICATED IN THE PANEL	SCHEDULES.
10770					
NOTES:	140 17 11 11	Dia	N /:		
. Calculations are based on a 120/2	:40-VOIt, 1-	rnase, 3-V	vire		



ENLARGED UNIT PLAN - 2 BEDROOM TYPE-A 1/4"=1'-0"

- 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. 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.

- 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. 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 Luis Graef: President



PROPERTIES

REVISIONS

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

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

ARCHITECTURAL PLANS FOR HEARING IMPAIRED AND ADA UNIT DESIGNATIONS. NOTE: REFER TO OVERALL SYMBOL LEGEND ON COVER SHEET FOR SYMBOLS NOT SHOWN ABOVE

DESIGNATIONS.

FLUSH MOUNTED JUNCTION BOX FOR DOORBELL TURN OFF

SWITCH (ONLY REQUIRED IN HEARING IMPAIRED UNITS). REFER TO

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

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM UNITS

AMPS: AIC: LOAD NAME LIGHTING REC - GENERAL REC - KITCHEN RANGE HOOD DISPOSAL REC - MASTER BEDR REC - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE SPARE	10,0 ROOM ROOM N		1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33				2	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30	_	20 20 20 20 20 50 30 25 30 50		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LIGHTING REC - GENERAL REC - KITCHEN RANGE HOOD DISPOSAL REC - MASTER BEDR REC - MASTER BATH FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE #7) REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	IROOM ROOM N #8)		1 3 5 7 9 11 13 15 17 19 21 23 25 27 29				2	2 4 6 8 10 12 14 16 18 20 22 24 26 28	REC - LIVING ROOM REC - KITCHEN REFRIGERATOR (NOTE #7) DISHWASHER (NOTE #7) RANGE AIR HANDLER HEAT PUMP DRYER WATER HEATER	20 20 20 20 50 30 25 30	12 12 12 12 6 6 10 10 8 8 10 10 6	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
REC - GENERAL REC - KITCHEN RANGE HOOD DISPOSAL REC - MASTER BEDR REC - MASTER BATH FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	IROOM ROOM N #8)		3 5 7 9 11 13 15 17 19 21 23 25 27 29					4 6 8 10 12 14 16 18 20 22 24 26 28	REC - KITCHEN REFRIGERATOR (NOTE #7) DISHWASHER (NOTE #7) RANGE AIR HANDLER HEAT PUMP DRYER WATER HEATER	20 20 20 50 30 25 30	12 12 12 6 6 10 10 8 8 10 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
REC - KITCHEN RANGE HOOD DISPOSAL REC - MASTER BEDR REC - MASTER BATH FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	IROOM ROOM N #8)		5 7 9 11 13 15 17 19 21 23 25 27 29					4 6 8 10 12 14 16 18 20 22 24 26 28	REFRIGERATOR (NOTE #7) DISHWASHER (NOTE #7) RANGE AIR HANDLER HEAT PUMP DRYER WATER HEATER	20 20 50 30 25 30 50	12 12 12 6 6 10 10 8 8 10 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RANGE HOOD DISPOSAL REC - MASTER BEDR REC - MASTER BATH FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	IROOM ROOM N #8)		7 9 11 13 15 17 19 21 23 25 27 29 31					8 10 12 14 16 18 20 22 24 26 28	DISHWASHER (NOTE #7) RANGE AIR HANDLER HEAT PUMP DRYER WATER HEATER	20 50 30 25 30 50	12 6 6 10 10 8 8 10 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DISPOSAL REC - MASTER BEDR REC - MASTER BATH FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	IROOM ROOM N #8)		9 11 13 15 17 19 21 23 25 27 29					10 12 14 16 18 20 22 24 26 28	RANGE AIR HANDLER HEAT PUMP DRYER WATER HEATER	50 30 25 30 50	6 6 10 10 8 8 10 10 6	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
REC - MASTER BEDR REC - MASTER BATH FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	IROOM ROOM N #8)		9 11 13 15 17 19 21 23 25 27 29					10 12 14 16 18 20 22 24 26 28	RANGE AIR HANDLER HEAT PUMP DRYER WATER HEATER	50 30 25 30 50	6 6 10 10 8 8 10 10 6	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
REC - MASTER BATH FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	IROOM ROOM N #8)		11 13 15 17 19 21 23 25 27 29					12 14 16 18 20 22 24 26 28	— AIR HANDLER — HEAT PUMP — DRYER — WATER HEATER	30 25 30 50	6 10 10 8 8 10 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00
FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	ROOM N #8)		15 17 19 21 23 25 27 29					14 16 18 20 22 24 26 28	HEAT PUMP DRYER WATER HEATER	25 30 50	10 8 8 10 10 6	0.00 0.00 0.00 0.00 0.00 0.00 0.00
FAN - MASTER BEDR DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	ROOM N #8)		15 17 19 21 23 25 27 29	•				16 18 20 22 24 26 28	HEAT PUMP DRYER WATER HEATER	25 30 50	10 8 8 10 10 6	0.00 0.00 0.00 0.00 0.00 0.00
DRYER BOOSTER FAI WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	#8)		17 19 21 23 25 27 29 31	•				18 20 22 24 26 28	DRYER WATER HEATER	30 50	8 8 10 10 6	0.00 0.00 0.00 0.00 0.00
WASHER (NOTE #7) TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE	#8)		19 21 23 25 27 29 31	•				20 22 24 26 28	DRYER WATER HEATER	30 50	8 10 10 6	0.00 0.00 0.00 0.00 0.00
TELECOM BOX TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #2 FAN - BEDROOM #3 SPARE	#8)		21 23 25 27 29 31					22 24 26 28	WATER HEATER	50	10 10 6	0.00 0.00 0.00 0.00
TELECOM BOX FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #3 SPARE			23 25 27 29 31	•				24 26 28	WATER HEATER	50	10 6	0.00 0.00 0.00
FIRE ALARM (NOTE # REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #2 FAN - BEDROOM #3 SPARE			25 27 29 31	•			•	26 28			6	0.00
REC - BEDROOM #2 BATHROOM #2 FAN - BEDROOM #2 FAN - BEDROOM #3 SPARE			27 29 31	•			•	28				0.00
BATHROOM #2 FAN - BEDROOM #2 FAN - BEDROOM #3 SPARE			29 31			+			CDADE	20		
FAN - BEDROOM #2 FAN - BEDROOM #3 SPARE			31			_			INPARE			0.00
FAN - BEDROOM #3 SPARE								32	REC - BEDROOM #3	20	12	0.00
SPARE								34	SPARE	20	12	
			35					36	SPARE	20		
SPARE			37					38	SPARE	20		
SPARE			39					40	SPARE	20		
SPARE			41					42	SPARE	20		
SPARE			41	<u> </u>	CUP TO	TALC		42	SPARE	20		
) A D (I-VA)	Comm	D.E.	Dund		SUB TO	IALS	Т/	0741.10	AAD DED DUACE			
JAD (KVA)										(NOTE #	±10\	
				-	0.0	LV.				(INOTE #	10)	
				-								
	0.0	1.00		1	0.0		•	5.				
	0.0	1.00		-				DI	EMAND	(NOTE #	[‡] 10)	
	0.0	0.65			0.0	kV				T)	-	
A)	0.0	1.00	0.0	L2-	0.0	kV		0.	.0 AMPS			
	0.0	0.50	0.0					3.5 5				
R	0.0	1.00	0.0				DEN	DEMAND AT 125%		(NOTE #	‡ 10)	
	0.0	1.00		L1=	0.0	kV	\	0.	.0 AMPS			
	0.0	1.00	0.0	L2=	0.0	kV	١.	0.	.0 AMPS			
1	E SHALL BE AS REQ'D	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.25 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 0.65 0.0 0.65 0.0 0.50 R 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00 0.0 1.00	0.0 1.25 0.0 0.0 1.00 0.0 0.0 1.00 0.0 0.0 1.00 0.0 0.0 1.00 0.0 0.0 1.00 0.0 0.0 0.65 0.0 0.0 1.00 0.0 0.0 0.50 0.0 R 0.0 1.00 0.0 0.0 1.00 0.0 CR 0.0 1.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 1.25 0.0 0.0 1.00 0.0 L1 = 0.0 1.00 0.0 L2 = 0.0 1.00 0.0 L1 = 0.0 0.0 1.00 0.0 L2 = 0.0 0.0 0.50 0.0 L2 = 0.0 1.00 0.0 L2 = 0.0 1.00 0.0 L1 = 0.0 1.00 0.0 L2 = 0.0 L2 = 0.0 1.00 0.0 L2 =	0.0 1.25 0.0 0.0 1.00 0.0 L1 = 0.0 0.0 1.00 0.0 L2 = 0.0 0.0 1.00 0.0 L2 = 0.0 0.0 1.00 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 1.25 0.0 0.0 1.00 0.0 L1= 0.0 kVA 0.0 1.00 0.0 L2= 0.0 kVA 0.0 1.00 0.0 0.0 1.00 0.0 0.0 0.65 0.0 L1- 0.0 kVA 0.0 1.00 0.0 L2- 0.0 kVA 0.0 0.50 0.0 R 0.0 1.00 0.0 0.0 1.00 0.0 L2- 0.0 kVA 0.0 1.00 0.0 L2= 0.0 kVA 0.0 kVA 0.0 L2= 0.0 kVA 0.	0.0 1.25 0.0 0.0 1.00 0.0 L1= 0.0 kVA 0.0 1.00 0.0 L2= 0.0 kVA 0.0 1.00 0.0 0.0 1.00 0.0 0.0 1.00 0.0 0.0 0.65 0.0 L1- 0.0 kVA 0.0 1.00 0.0 L2- 0.0 kVA 0.0 0.50 0.0 R 0.0 1.00 0.0 L1= 0.0 kVA 0.0 1.00 0.0 L1= 0.0 kVA 0.0 1.00 0.0 L1= 0.0 kVA 0.0 1.00 0.0 L2= 0.0 kVA	0.0 1.25 0.0 CO 0.0 1.00 0.0 L1= 0.0 kVA 0 0.0 1.00 0.0 L2= 0.0 kVA 0 0.0 1.00 0.0 0.0 1.00 0.0 0.0 1.00 0.0 0.0 L1- 0.0 kVA 0 0.0 0.65 0.0 L1- 0.0 kVA 0 0.0 0.0 1.00 0.0 L2- 0.0 kVA 0 0.0 0.50 0.0 R 0.0 1.00 0.0 L1= 0.0 kVA 0 0.0 1.00 0.0 L2= 0.0 kVA 0 0.0 1.00 0.0 L2= 0.0 kVA 0	0.0	0.0	0.0 1.25 0.0 CONNECTED (NOTE #10)

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.

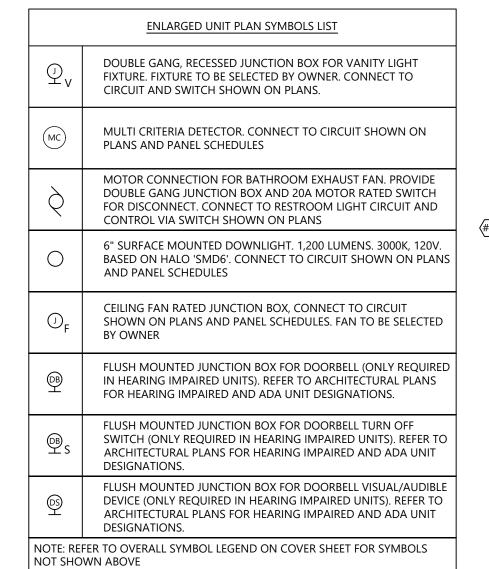
6. PROVIDE METAL DIRECTORY FRAME.

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

Voltage (L-L): 240	Volts	Pro	oiect Name:	Naples Road Apartments			
Phase: 1	1		Project #:	I			
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			
(2) Small Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ G	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	Enter quantity for only the lar	raest of th	16	
HP Compressor (240V)	3.26	0	0.00	following: "A/C and Cooling",			
Strip Heat (240V)	2.00	0	0.00	strip heat), "Electric Space H	`		
Electric Space Heat (240V)	0.00	0	0.00	Thermal & Other Heating".	.541 , 01		
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				
Dishwasher	0.80	1	0.80	(1) 20A Ckt for Dishwasher &	-		
Disposal	1.00	1	1.00	(1) 20A Ckt for Dishwasher &	Disposa	ll	
Microwave	1.50	1	1.50	Evernles of factored in place	o onnlion		
Refrigerator	0.80	1	0.80	Examples of fastened in plac compactors, furnace motors,			
	0.00	0	0.00 0.00	pumps, etc. Add these appli			
	0.00		0.00	where applicable.	ances in	uividualiy	
	0.00	0	0.00	where аррисаые.			
TOTAL CONNECT				kVA			
			1 12.01		•		
DEMAND LOAD (PH 1st 10 kVA @ 100%	10.00		Gon I ta	DEMAND LOAD (NEUTF Small Appliance, Laundry	9.65		
Remaining @ 40%	10.5392		II .	VA @ 100%	3.00		
A/C & Cooling @ 100%	1	kVA	II .	'A to 120 kVA @ 35%	2.33		
HP Compressor @ 100%	1	kVA	II .	kVA @ 25%		kVA	
HP Strip Heat @ 65%	1	kVA	III .	g L-N Loads @ 100%		kVA	
Electric Space Heat @ 65%		kVA	Dryer Loa			kVA	
Electric Space Heat @ 40%		kVA	11 '	ad @ 70%	4.48		
Electric Thermal & Other Heating		kVA	-	ed load > 200A @ 70%		kVA	
Ç							
TOTAL DEMAND LOAD (PHASE)	26.26 109.41	kVA AMPS	TOTAL D	DEMAND LOAD (NEUTRAL)	17.41 72.53	kVA AMPS	
Quantity of 15A general lighting of 0R Quantity of 20A general lighting of 20A	circuits (w/	AFCI-P) =		AMP RATING OF THE GENE RECEPTACLE CIRCUIT(S) S INDICATED IN THE PANELS	ERAL LIG	SHTING 8 E AS	
NOTES:	,	,		•			
 Calculations are based on a 120/2 	240-Volt 1-	Phase 3-	Wire				

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		(25) (32) S3 (25) MC (1) (1)
(1) AHU-3 (3) (14,16) GFI (13) (13) (13) (13) (13) (13) (13) (13)	(1) (3) (4) (3) (4) (5) (5) (6) (6) (7) (1) (1) (2) (3) (4) (5) (6) (7) (7) (8) (9) (1) (1) (1) (1) (2) (3) (4) (5) (6) (7) (6) (7) (7) (8) (9) (1) (1) (1) (2) (3) (4) (5) (6) (7) (6) (7) (7) (8) (9) (9) (1) (1) (1) (2) (3) (4) (5) (6) (6) (7) (7) (8) (9) (9) (1) (1) (1) (2) (3) (4) (5) (6) (7) (6) (7) (7) (8) (9) (9) (1) (1) (1) (2) (3) (4) (5) (6) (7) (6) (7) (7) (8) (9) (9) (1) (1) (1) (2) (3) (4) (5) (6) (7) (6) (7) (7) (8) (9) (9) (1) (1) (1) (1) (2) (2) (3) (4) (4) (5) (6) (7) (6) (7) (7) (8) (9) (9) (9) (1) (1) (1) (1) (2) (2) (3) (4) (4) (5) (6) (7) (7) (8) (9) (9) (9) (9) (1) (1) (1) (1) (2) (2) (3) (4) (4) (5) (6) (7) (7) (8) (9) (9) (9) (9) (9) (1) (1) (1) (1) (1) (2) (2) (3) (4) (4) (5) (6) (7) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	(22,24) (19) (26,28) (29) (29) (29) (29) (29) (29) (29)
	(2) (2) (2) TV	(27) SWITCHED RECEPTACLE — (27) (27)
SWITCHED RECEPTACLE (11) (11) (11)	SWITCHED RECEPTACLE WP/GFI (2) CC (11)	

		EQUIPME	NT CHARAC	TERISTICS	FLA	MCA	МОСР	FEEDER	DISCONNECT SWITCH						
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	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	OTOR SN	AP SWITCH	1	1,2		
NOTES:															
1	COORDINATE ALL ROUGH-IN LO	CATIONS, CON	INECTION TY	PES, BREAKER	SIZES, ETC	. WITH API	PROVED MEC	CHANICAL EQUIPMENT SUB	MITTALS PR	IOR TO RO	UGH-IN AI	VD.			
	INSTALLATION. ALL ROUGH-INS S	SHALL BE REVI	EWED AND A	PPROVED BY	MECHANIC	AL CONTR	ACTOR.								
2	FAN POWERED VIA LOCAL LIGHTI	NG CIRCUIT. C	ONNECT TO	SWITCH SHOW	WN ON EN	ILARGED U	INIT PLANS								
	LAURE CIZE VARIES BASER ON RIS	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													



ENLARGED UNIT	PLAN -	3	BEDROOM
1/4"=1'-0"			

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

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.

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. 9. 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

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM TYPE-A UNITS

			VOLTAGE: PHASE / WIRE: AMPS:	120/ 1φ/ 125									ING: FLUSH		
			AIC:	10,0	00										
OAD (VA	WIRE	TRIP	LOAD NAME			CKX*	L1			L2	ريز*	LOAD NAME	TRIP.	WIRE	LOAI KVA
0.00	12	20	LIGHTING			1	-		-		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	•	-	+	$\overline{}$	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		6	0.00
0.00	12	20	REC - MASTER BEDR	ООМ		11	F#		+	•	12	RANGE	50	6	0.00
0.00	12	20	MASTER BATHROOM	1		13	•		丰		14	AID HANDLED	30	10	0.00
0.00	12	20	FAN - MASTER BEDR	ООМ		15	 		+	•	16	AIR HANDLER	30	10	0.00
0.10	12	20	DRYER BOOSTER FAI	V		17	-		#	/-	18			8	0.00
0.00	12	20	WASHER (NOTE #7)			19		-	+	•	20	HEAT PUMP	25	8	0.00
0.00	12	20	TELECOM BOX			21	•		#		22		20	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			1		26			6	0.00
0.00	12	20	REC - BEDROOM #2			27			+	•	28	WATER HEATER	50	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			33	-		+	\forall	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 TOT	ALS			<u> </u>		<u> </u>	
		LOA	AD (kVA)	Conn.	D.F.	Dmd.				T	OTAL LO	AD PER PHASE			
	LIGHTS			0.0	1.25	0.0					CON	INECTED	(NOTE #	[‡] 10)	
- 1	HEATING			0.0	1.00		L1=	0.1				3 AMPS			
- 1	COOLING			0.0	1.00		L2=	0.0	kV	'A	0.0	O AMPS			
- 1	VENTILA			0.0	1.00	0.0						TAMAND.		410)	
- 1	MOTORS			0.1	1.00 0.65	0.1	L1-	0.1	kV	, <u>,</u>		B AMPS	(NOTE #	+ IU)	
- 1	REC. (1st			0.0	1.00		L1- L2-	0.0	kV kV			O AMPS			
- 1	REC. (151			0.0	0.50	0.0	+	0.0	κV	^	0.0	O MIAIL 2			
- 1	WATER I			0.0	1.00	0.0	<u> </u>			DEMAND AT 125%		(NOTE #	‡10)		
- 1	MISC.		-	0.0	1.00		L1=	0.1	kV			(1.13.12.	,		
- 1	SPARE			0.0	1.00		L2=	0.0	kV			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.

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

6. PROVIDE METAL DIRECTORY FRAME.

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

Phase:	10 Volts 1 16 Sq Ft	Pro	Project #: By:	Matt Lewis		
			Date:	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/ C	SFCI-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	Enter quantity for only the lar	gest of th	ne
HP Compressor (240V)	3.26	0	0.00	following: "A/C and Cooling",	"HP" (wi	th or w/o
Strip Heat (240V) Electric Space Heat (240V)	2.00	0	0.00 0.00	strip heat), "Electric Space F	leat", or '	'Electric
• • • • • • • • • • • • • • • • • • • •	0.00	0	0.00	Thermal & Other Heating".		
Elec Thermal / Other (240V) Water Heater (240V)	9.60	1	9.60			
Water Heater (120V)	1.50		0.00			
Dishwasher	0.80	1	0.80	(1) 20A Ckt for Dishwasher &	. Diennes	al.
Disposal	1.00		1.00	(1) 20A Ckt for Dishwasher &	•	
Microwave	1.50	1	1.50	(1) 20/1 OKT IOI DISTINGUITO	Бюроос	
Refrigerator	0.80		0.80	Examples of fastened in place	e appliar	ices are
rtomgerater	0.00	Ö	0.00	compactors, furnace motors,		
	0.00	Ö	0.00	pumps, etc. Add these appli		
	0.00	0	0.00	where applicable.		•
	0.00	0	0.00			
TOTAL CONNEC	TED LOAD	FOR UNIT	Г 42.07	kVA		
DEMAND LOAD (P	HASE)			DEMAND LOAD (NEUTF	RAL)	
1st 10 kVA @ 100%	10.00	kVA	Gen Lta.	Small Appliance, Laundry	9.65	
Remaining @ 40%	10.5392	kVA		VA @ 100%		kVA
A/C & Cooling @ 100%		kVA	III	'A to 120 kVA @ 35%		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		ad @ 70%	4.48	kVA
Electric Thermal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00	kVA
TOTAL DEMAND LOAD (PHASE	26.26 109.41	kVA AMPS	TOTAL D	PEMAND LOAD (NEUTRAL)	17.41 72.53	kVA AMPS
Quantity of 15A general lighting	· ·		= 3	AMP RATING OF THE GENI		
<u>OR</u> Quantity of 20A general lighting	g circuits (w/	AFCI-P) =	= 3	RECEPTACLE CIRCUIT(S) S INDICATED IN THE PANELS		
NOTES:						
1. Calculations are based on a 120	/240-Volt, 1-	Phase, 3-	Wire			

MOTE: 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) (1) (4) (5) (4) (6) (7) (7) (8)	(25) (32) (32) (25) (33) (11) (11) (11) (11)
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 (3) (4) (5) (4) (6)	(25) S ₃ (1) (1)
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(1) (1) (1) (1) (1) (2) (7) (3) (4) (5) (4) (5)	
	(17) (9) (17) (9) (17) (9)
	(22,24) (19) EWH-1 (26,28)
(1) (1) (1) (3) (4) (5) (4) (6) (9) (6) (6) (6) (6) (1)	(29) (29) EF-1
	(29)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(1)
(13) (25) (MC)	(25) (C29)
SHALL BE PROVIDED WITH SOUNDER BASE, TYPICAL	H (2) / (2)
$\bigcirc^{(1)}$	
$(1) \qquad (11) \qquad (MC) \qquad (25) \qquad (25) \qquad (27)$	(27)
	(31) (31) F
— UNIT DOWNLIGHTS ARE FIXTURE	
(11) A' UNLESS NOTED OTHERWISE (11)	SWITCHED RECEPTACLE—
$O_{(1)}$	(27) (27)
(15) (15) (2) (3)	Ψ
RECEPTACLE S	
WP/GFI (2)	
SWITCHED RECEPTACLE	
(11) (11) (11) (11) (11) (11) (11) (11)	
ENLARGED UNIT PLAN - 3 BEDROOM TYPE-A	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 3 BEDROOM UNITS													
		EQUIPME	EQUIPMENT CHARACTERISTICS		FLA	MCA	МОСР	FEEDER	D				
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	FLA	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:													

												_	, -
<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	l	1,2
NOTES:													
1	COORDINATE ALL ROUGH-IN LOCATIONS, CONNECTION TYPES, BREAKER SIZES, ETC. WITH APPROVED MECHANICAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN AND												
	INSTALLATION. ALL ROUGH-INS S	HALL BE REV	IEWED AND	APPROVED BY M	1ECHANIC	AL CONTRA	ACTOR.						
2	FAN POWERED VIA LOCAL LIGHTI	NG CIRCUIT.	CONNECT TO	SWITCH SHOV	VN ON EN	ILARGED U	NIT 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												

Ωv	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
O _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.
<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.

ENLARGED UNIT PLAN SYMBOLS LIST

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.

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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



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

			NEW PANEL: 3-BDRM ACCESSIBLE												
			VOLTAGE: PHASE / WIRE: AMPS: AIC:	<u>SE / WIRE:</u> 1φ/ 3W <u>AMPS:</u> 125								NTING: FLUSH			
LOAD KVA	NIRE	TRIP	LOAD NAME			ريز*	L1		L	2	ريز*	LOAD NAME	7RIP	WIRE	LOAD KVA
0.00	12	20	LIGHTING			1	•	+		<u> </u>	2	REC - LIVING ROOM	20	12	0.00
0.00	12	20	REC - GENERAL			3		-	1	—	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	-		1	_	10	DANIGE		6	0.00
0.00	12	20	REC - MASTER BEDF	ROOM		11	 			_	12	RANGE	50	6	0.00
0.00	12	20	MASTER BATHROOM	M		13	•	+	+	<u></u>	14		30	10	0.00
0.00	12	20	FAN - MASTER BEDF	ROOM		15	- +				16	AIR HANDLER	30	10	0.00
0.10	12	20	DRYER BOOSTER FA	.N		17	-		1	$\overline{}$	18	LIEAT DUNAD	25	8	0.00
0.00	12	20	WASHER (NOTE #7)			19	 				20	HEAT PUMP	25	8	0.00
0.00	12	20	TELECOM BOX			21	-		1	<u></u>	22	DDVED	30	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	-		1	<u> </u>	26	WATER HEATER		6	0.00
0.00	12	20	REC - BEDROOM #2	i		27	 				28	-WATER HEATER	50	6	0.00
0.00	12	20	BATHROOM #2			29	•	+	1	<u></u>	30	SPARE	20		0.00
0.00	12	20	FAN - BEDROOM #2	<u> </u>		31		+	+		32	REC - BEDROOM #3	20	12	
0.00	12	20	FAN - BEDROOM #3	3		33	•		_	_	34	SPARE	20		
		20	SPARE			35	 				36	SPARE	20		
		20	SPARE			37	•			<u></u>	38	SPARE	20		
		20	SPARE			39					40	SPARE	20		
		20	SPARE			41	-	_	+	<u> </u>	42	SPARE	20		
0.1								SUB TOT	ALS						0.0
		LOA	AD (kVA)	Conn.	D.F.	Dmd.				Т	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=	0.1	kVA		0.8	AMPS			
	COOLIN			0.0	1.00		L2=	0.0	kVA		0.0	AMPS			
	VENTIL			0.0	1.00		1								
	MOTOR			0.1	1.00		+					MAND	(NOTE #	10)	
	KITCHEI	<u> </u>		0.0	0.65	0.0	L1-	0.1	kVA	kVA 0.8 AMPS					

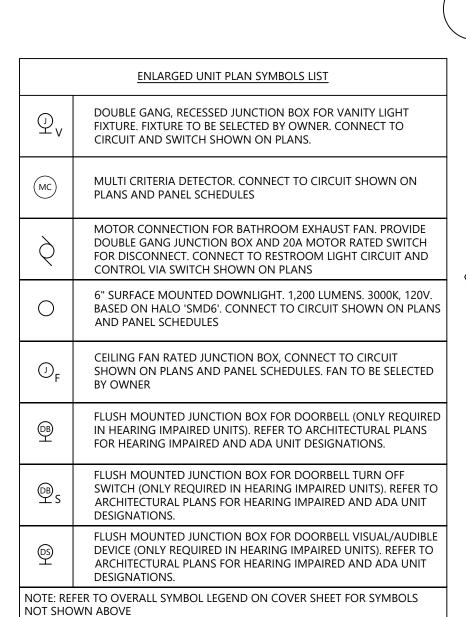
NOTES:

- 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.

AD	WIRE	R		[*] کی		LOAD NAME	TRIP	WIRE	LOAD	LOAD	kVA	QTY	kVA	NOTES	
VA	1/1.	TRIP	LOAD NAME	75	L1 L2	LOAD NAME	16.	1/1.	KVA	General Lighting Load	5.15	1	5.15	3 VA/SF	
00	12	20	LIGHTING	1		2 REC - LIVING ROOM	20	12	0.00	(2) Small Appliance Circuits	3.00	1	3.00	(2) Dedicated 20A Ckts (w/ G	FCI-P)
00		20	REC - GENERAL	3		4 REC - KITCHEN	20	12	0.00	Laundry Circuit	1.50	1	1.50	Dedicated 20A Ckt	
-	12		REC - KITCHEN			- 6 REFRIGERATOR (NOTE #7)		1		Electric Range Clothes Dryer	8.00 5.00	1	8.00 5.00		
00	12	20		5 7			20	12	0.00	A/C and Cooling (240V)	5.72	1	5.72		
00	12	20	RANGE HOOD			8 DISHWASHER (NOTE #7)	20	12	0.00	HP Compressor (240V)	3.26	0	0.00	Enter quantity for only the larg	
00	12	20	DISPOSAL	9		10 RANGE	50	6	0.00	Strip Heat (240V)	2.00	0	0.00	following: "A/C and Cooling",	`
00	12	20	REC - MASTER BEDROOM	11		12		6	0.00	Electric Space Heat (240V)	0.00	0	0.00	strip heat), "Electric Space H Thermal & Other Heating".	eat, or Electric
00	12	20	MASTER BATHROOM	13		14 AIR HANDLER	30	10	0.00	Elec Thermal / Other (240V)	0.00	0	0.00	Thermal & Other Heating .	
00	12	20	FAN - MASTER BEDROOM	15	<u> </u>	16		10	0.00	Water Heater (240V)	9.60	1	9.60		
10	12	20	DRYER BOOSTER FAN	17		HEAT PUMP	25	8	0.00	Water Heater (120V)	1.50	0	0.00		
00	12	20	WASHER (NOTE #7)	19	•	20		8	0.00	Dishwasher	0.80	1	0.80	(1) 20A Ckt for Dishwasher &	•
00	12	20	TELECOM BOX	21		DRYER	30	10	0.00	Disposal	1.00	1	1.00	(1) 20A Ckt for Dishwasher &	Disposal
00	12	20	TELECOM BOX	23		24	30	10	0.00	Microwave Refrigerator	1.50 0.80	1	1.50 0.80	Examples of fastened in place	a appliances are
00	12	20	FIRE ALARM (NOTE #8)	25		26	F0	6	0.00	Reingerator	0.80	0	0.00	compactors, furnace motors,	
00	12	20	REC - BEDROOM #2	27	—	WATER HEATER	50	6	0.00		0.00	0	0.00	pumps, etc. Add these applia	
00	12	20	BATHROOM #2	29		30 SPARE	20		0.00		0.00	0	0.00	where applicable.	
00	12	20	FAN - BEDROOM #2	31		32 REC - BEDROOM #3	20	12			0.00	0	0.00		
00	12	20	FAN - BEDROOM #3	33		- 34 SPARE	20			TOTAL CONNECT	ED LOAD F	OR UNIT	42.07	kVA	
		20	SPARE	35		36 SPARE	20			DEMAND LOAD (DL	ACE)		· I	DEMAND LOAD (NEUTD	A L \
		20	SPARE	37		38 SPARE	20			DEMAND LOAD (PHA		14) / A	Can I ta	DEMAND LOAD (NEUTR	
		20	SPARE	39		40 SPARE	20			1st 10 kVA @ 100% Remaining @ 40%	10.00 10.5392		_	Small Appliance, Laundry (XVA @ 100%	9.65 3.00 kVA
		20	SPARE	41		42 SPARE	20			A/C & Cooling @ 100%	5.72		II	'A to 120 kVA @ 35%	2.33 kVA
0.1		20	JI AILE	7.1	SUB TOTALS	TZ STAILE	20	<u> </u>		HP Compressor @ 100%	0.00		ll .	kVA @ 25%	0.00 kVA
0.1			AD (1)(A)	Б	SUB TOTALS	TOTAL LOAD BED BLIACE			0.0	HP Strip Heat @ 65%	0.00		ll .	g L-N Loads @ 100%	4.10 kVA
-		LO	AD (kVA) Conn. D.F.	Dmd.		TOTAL LOAD PER PHASE				Electric Space Heat @ 65%	0.00		Dryer Loa		3.50 kVA
	LIGHTS		0.0 1.25			CONNECTED	(NOTE #	† 10)		Electric Space Heat @ 40%	0.00			ad @ 70%	4.48 kVA
	HEATIN		0.0 1.00		0 L1 = 0.1 kVA	0.8 AMPS				Electric Thermal & Other Heating	0.00	kVA	Unbalance	ed load > 200A @ 70%	0.00 kVA
- ⊢	COOLIN		0.0 1.00		0.0 kVA	0.0 AMPS									
F	VENTILA		0.0 1.00 0.1 1.00	0.0		DEMAND	(NOTE 4	#10\							
	MOTOR:			0.		DEMAND	(NOTE #	/ 10)							
-	KITCHEN REC. (1st		0.0 0.65		0 L1- 0.1 kVA 0 L2- 0.0 kVA	0.8 AMPS 0.0 AMPS				TOTAL DEMAND LOAD (PHASE)	26.26		TOTAL D	EMAND LOAD (NEUTRAL)	17.41 kVA
- +						U.U AIVIPS					109.41	AMPS		· · · · · · · · · · · · · · · · · · ·	72.53 AMPS
- ⊢	REC. (>1 WATER		0.0 0.50 R 0.0 1.00	0.0		_ EMAND AT 125%	(NOTE #	4 10)		Quantity of 15A general lighting of	circuits (w/ /	AFCI-P) =	3	AMP RATING OF THE GENE	RAL LIGHTING
- ⊢	MISC.	HEAIL	0.0 1.00 0.0 1.00		0 L1= 0.1 kVA	1.0 AMPS	(NOTE 7	+ IU)		OR				RECEPTACLE CIRCUIT(S) S	
	SPARE		0.0 1.00		0 L2= 0.0 kVA	0.0 AMPS				Quantity of 20A general lighting of	circuits (w/ /	AFCI-P) =	3	INDICATED IN THE PANEL S	CHEDULES.
F	>ı ∧(\L		0.0 1.00	0.0	0.0 KVA	O.O AIVII S				NOTES:					
										1. Calculations are based on a 120/2	40 Valt 1 F	Phase 2 M	Viro		
										1. Calculations are based on a 120/2	+o-voit, i-F	11a5e, 3-V	VIIE		

		EQUIPME	NT CHARAC	TERISTICS	FLA	MCA	MOCP	FEEDER		1			
TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	KW	TLA	IVICA	IVIOCP	FEEDER	SIZE	POLE	FUSE	NEMA	NOTES
\HU-3	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
WH-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	MOTOR SN	AP SWITCH	4	1,2
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 RC	UGH-IN A	ND	
	INSTALLATION. ALL ROUGH-INS	CLIALL DE DEVA		DDD OVED DV	. 45 ('AL CONTR	ACTOD						

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 3 BEDROOM, 3

BEDROOM TYPE-A, & 3 **BEDROOM**

ACCESSIBLE UNITS

Project Name: Naples Road Apartments

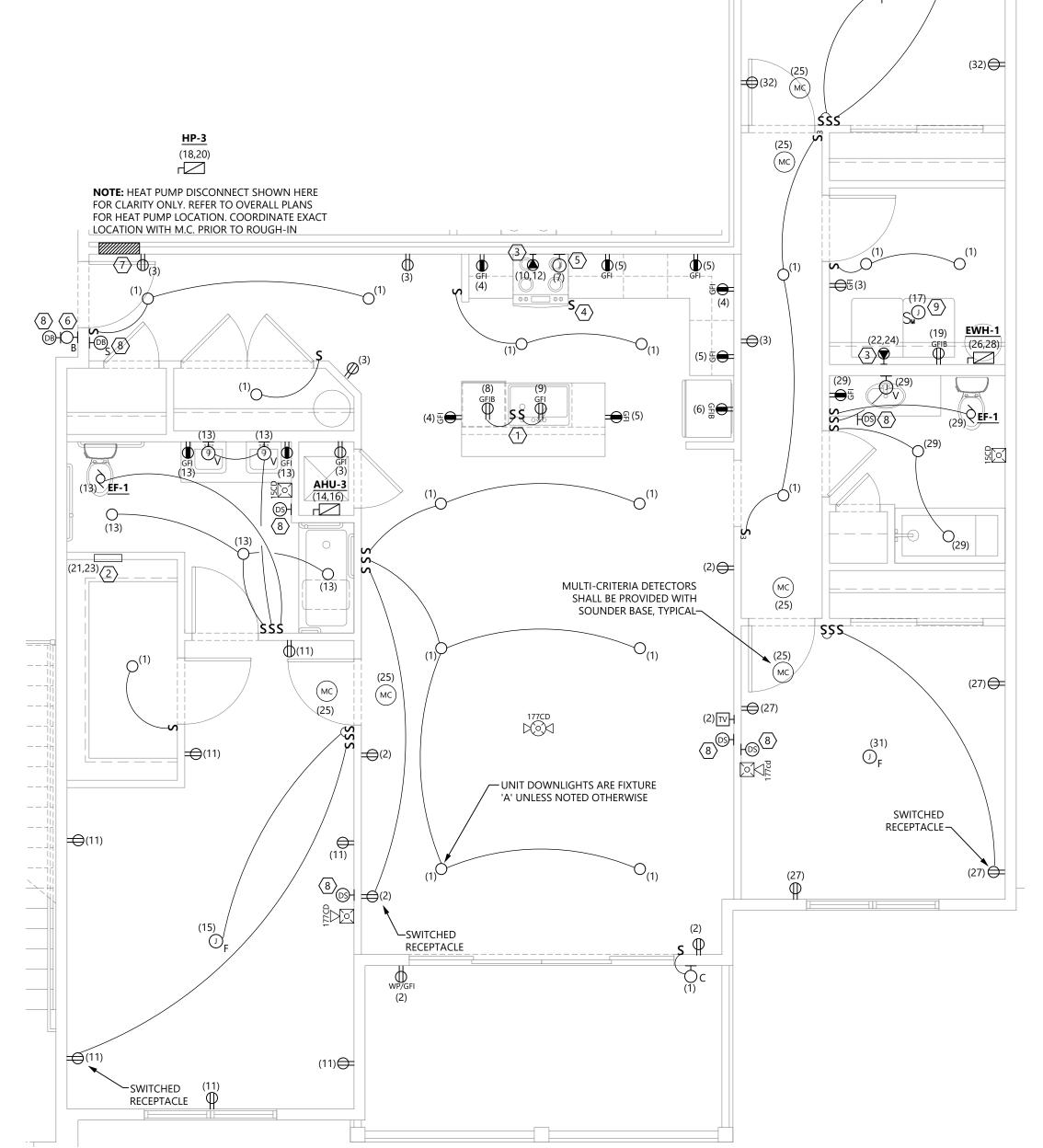
Project #: 24-125

By: Matt Lewis Date: 3/13/2025

SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION

UNIT / SUITE: 3BDRM, 3BDRM TYPE-A, 3BDRM ACCESSIBLE

Floor Area:



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.

- 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.

engineering

RECEPTACLE-

- PRELIMINARY -NOT FOR CONSTRUCTION

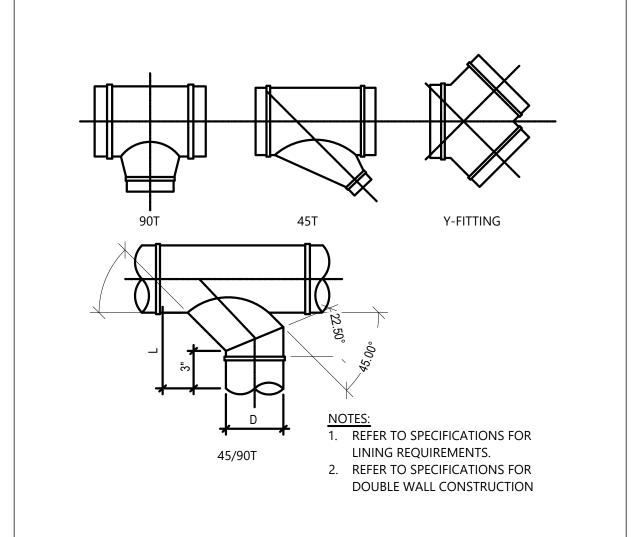
The Orchards at Naples Road, 341 N Main Street Hendersonville, NC 28792 Luis Graef: President



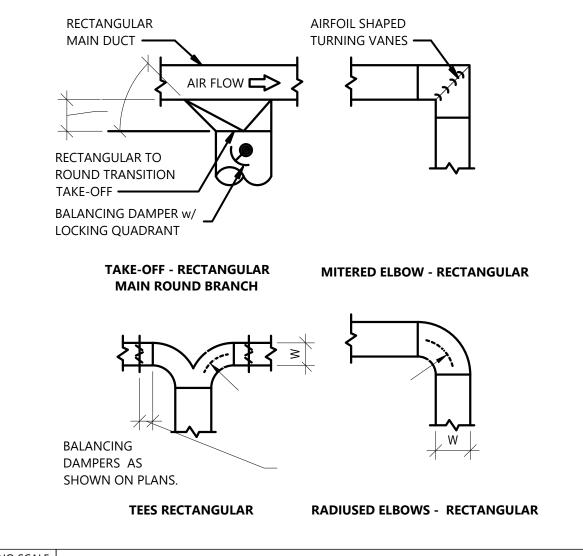
REVISIONS

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

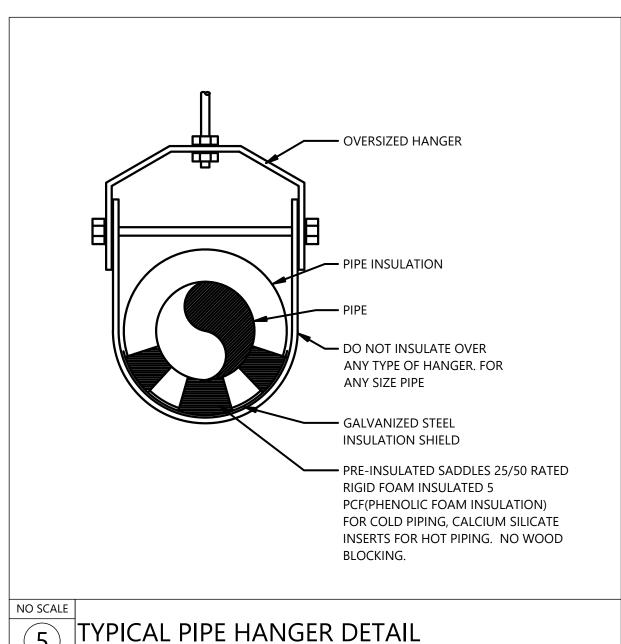
DWG DECRIPTION: ENLARGED UNIT PLAN -3 BEDROOM ACCESSIBLE

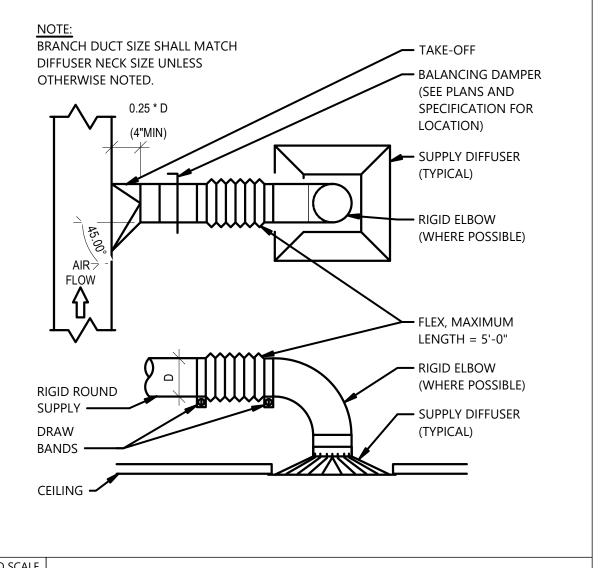


ROUND DUCT FITTINGS DETAIL

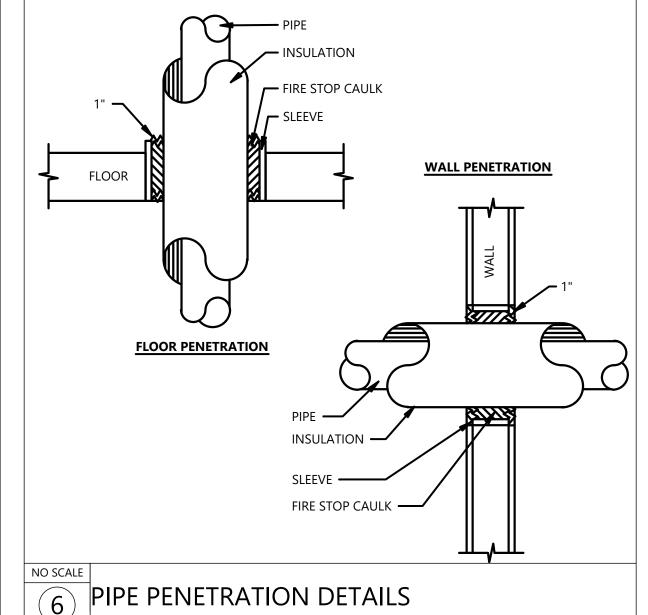


RECTANGULAR DUCT FITTINGS DETAIL





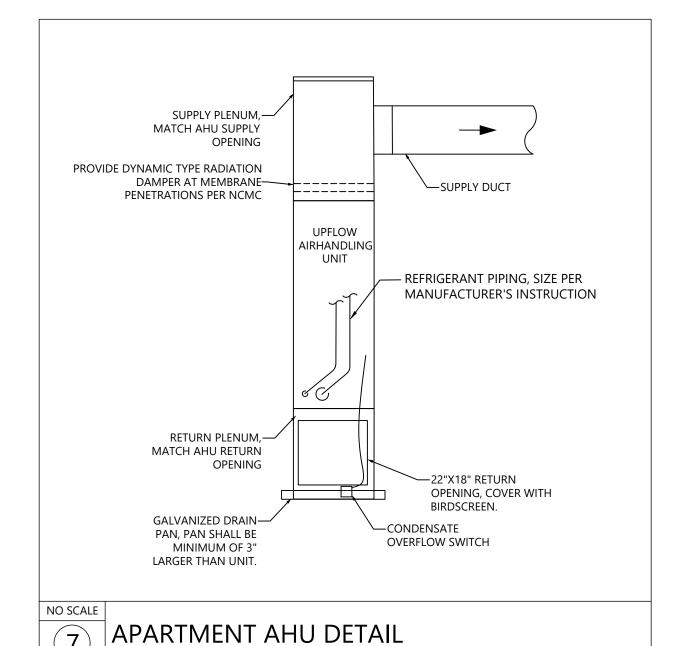
(3) ROUND BRANCH DUCT TAKE-OFF DETAIL



DRAIN CONNECTION DETAIL

-UNIT CONNECTION WITH UNION

-CLEANOUT PLUG



Building Code - 2018 North Carolina NCBC

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

SEE EQUIPMENT SCHEDULES

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

PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED.

- 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
- 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 COMPLETION OF CONSTRUCTION. ANY DUCTWORK, AIR TERMINALS, AND/OR OTHER EQUIPMENT UPSTREAM OF FILTRATION SHALL BE CLEANED THOROUGHLY OF CONSTRUCTION DEBRIS BEFORE
- 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
- 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

- 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.
- 5. 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

MECHANICAL LEGEND

<u>SYMBOL</u>	DESCRIPTION
\bigcirc	THERMOSTAT / TEMP SENSOR (4'-0" AFF TO TOP)
\boxtimes	SUPPLY GRILLE
	RETURN AIR GRILLE
\triangleright	EXHAUST AIR GRILLE
-	CEILING RADIATION DAMPER
	MVD (MANUAL VOLUME DAMPER)
X-1 YY"xZZ" XXX CFM-X	DIFFUSER TAG NECK SIZE AIRFLOW-(TYPICAL QUANTITY)
<u>AHU</u>	AIR HANDLING UNIT
<u>HP</u>	HEAT PUMP
<u>EF</u>	EXHAUST FAN
<u>ECUH</u>	ELECTRIC CABINET UNIT HEATER
<u>DB</u>	DRYER BOOSTER FAN



- PRELIMINARY -NOT FOR CONSTRUCTION

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

of poles

INDOOR UNIT SPLIT SYSTEM SCHEDULE **ELECTRICAL DATA INDOOR UNIT DATA** WEIGHT **SUPPLY AIR FAN ELECTRIC HEATER NOTES** MOCP MARK MFR MODEL NO. NOM. CAP. VOLTAGE/PH SA OA FLA (MBH) (CFM) (CFM) (IN. W.C.) (A) (A) (LBS) <u> AHU-1</u> 600 0.2 1/3 1-7 GOODMAN AWST18 2.6 20 84 800 84 <u>AHU-2</u> 1-7 GOODMAN AWST24 24 0.3 2.6 1/3 230/1 28.3 30 _ AHU-3 1-7 AWST30 30 1000 0.3 3.8 1/2 230/1 29.8 30 109 GOODMAN

FACTORY DISCONNECT.

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.

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 U	INIT SPLIT	SYSTEM SO	CHEDULE									
						OUTDO	OR UNIT DATA					
MARK	NOTES			REFRIG.	REFRIG. COOLING PERFORMAL	NCE	REFRIG. HI	ATING PERFORMANCE	ELECTRICAL DATA			WEIGHT
IVIARK	NOTES	MFR	MODEL NO.	TYPE	NOM. CAP.	SEER2	NOM. CAP	HSPF2	VOLTAGE/PH	MCA	МОСР	
				TTPE	(MBH)	JEER2	(MBH)	пэггг	VOLIAGE/PH	IVICA	WIOCP	(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
HP-3	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.

SCROLL COMPRESSOR.

FAN SC	HEDULE														
								FAN DA	TA			ELECTRIC	AL DATA		WEIGHT
MARK	NOTES	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	ТҮРЕ	AIRFLOW	RPM	ESP	MOTOR DATA	VOLTS	PHASE	MCA	МОСР	OCP WEIGHT
						ITPE	(CFM)	Krivi	(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	ı	-	12.5
<u>DBF-1</u>	1, 2, 4-12	FANTECH	DEDPV705	DRYER EXHAUST	APARTMENT	INLINE	150	2600	0.2	78W	120	1		-	23

1 FACTORY MOUNTED DISCONNECT.

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 .

ELECT	RIC U	NIT HEATER SC	HEDULE						
					<u> </u>	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	

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 NA	TUR	AL VENTILATION CALCU	LATIONS (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 NA	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 NA	TUR	AL VENTILATION CALCU	LATIONS (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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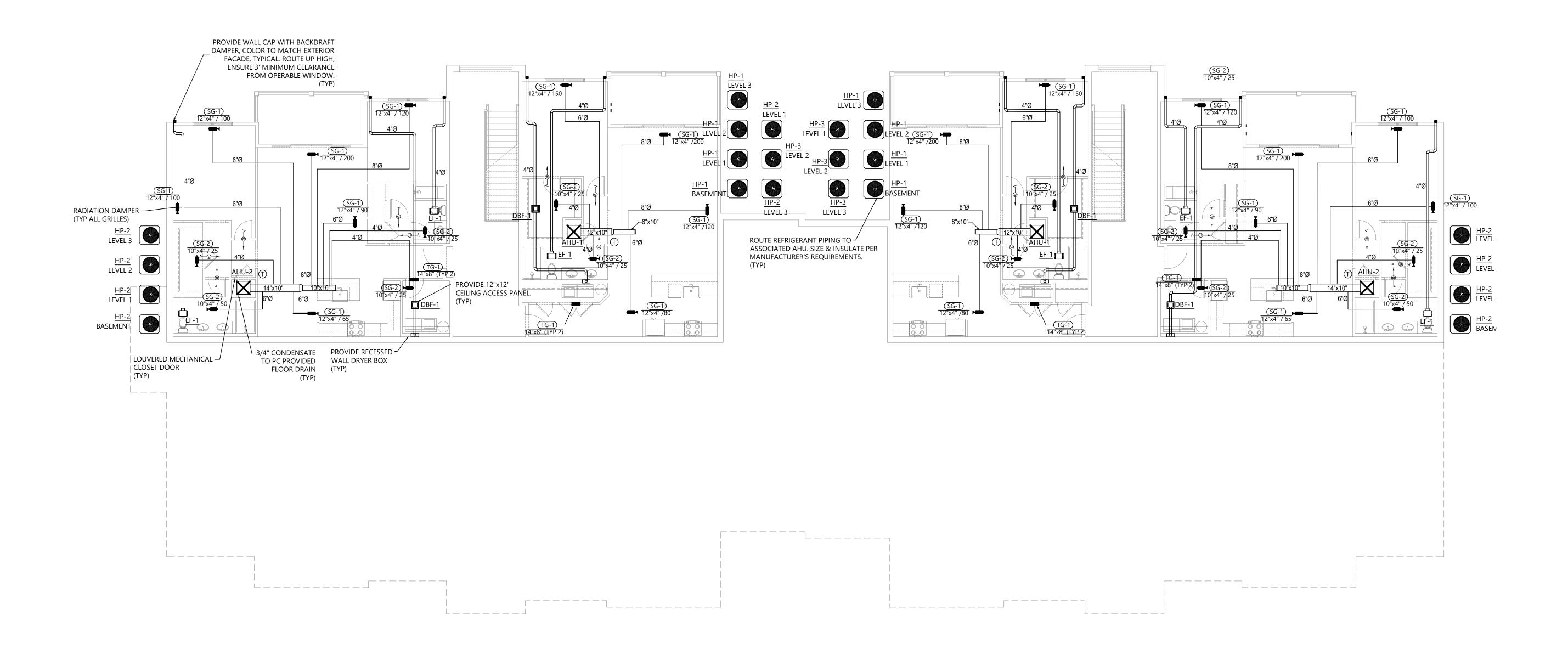


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DWG DECRIPTION:

MECHANICAL SCHEDULES



MECHANICAL PLAN - BUILDING 3 (28 UNIT BUILDING) - BASEMENT

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engineering
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Hendersonville, NC 28792
Luis Graef: President



PROJECT

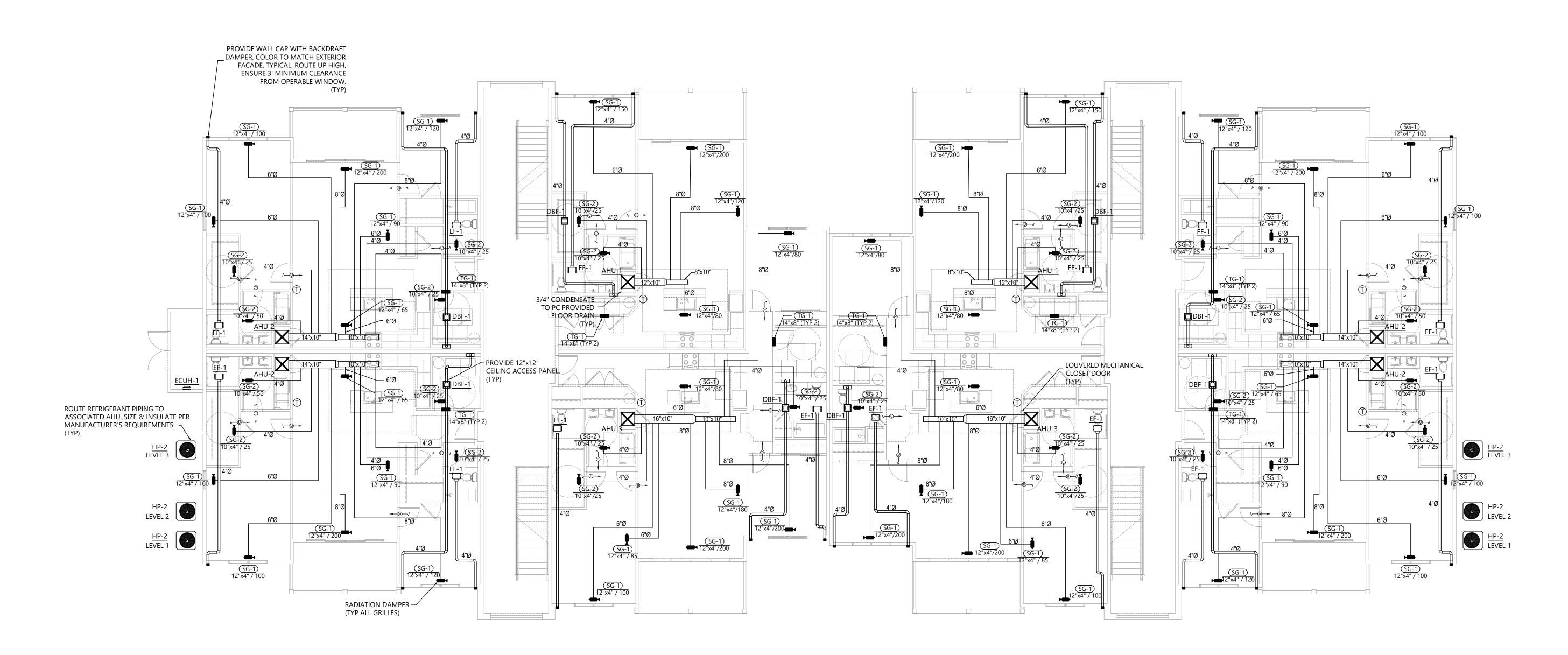
The Orchards at Naples Road Apartment Complex Hendersonville, North Carolina

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ISSUE DATE: 4/11/25
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MECHANICAL PLAN BASEMENT -BUILDING 3

SHEET #:



MECHANICAL PLAN - BUILDING 3 (28 UNIT BUILDING) - FIRST FLOOR

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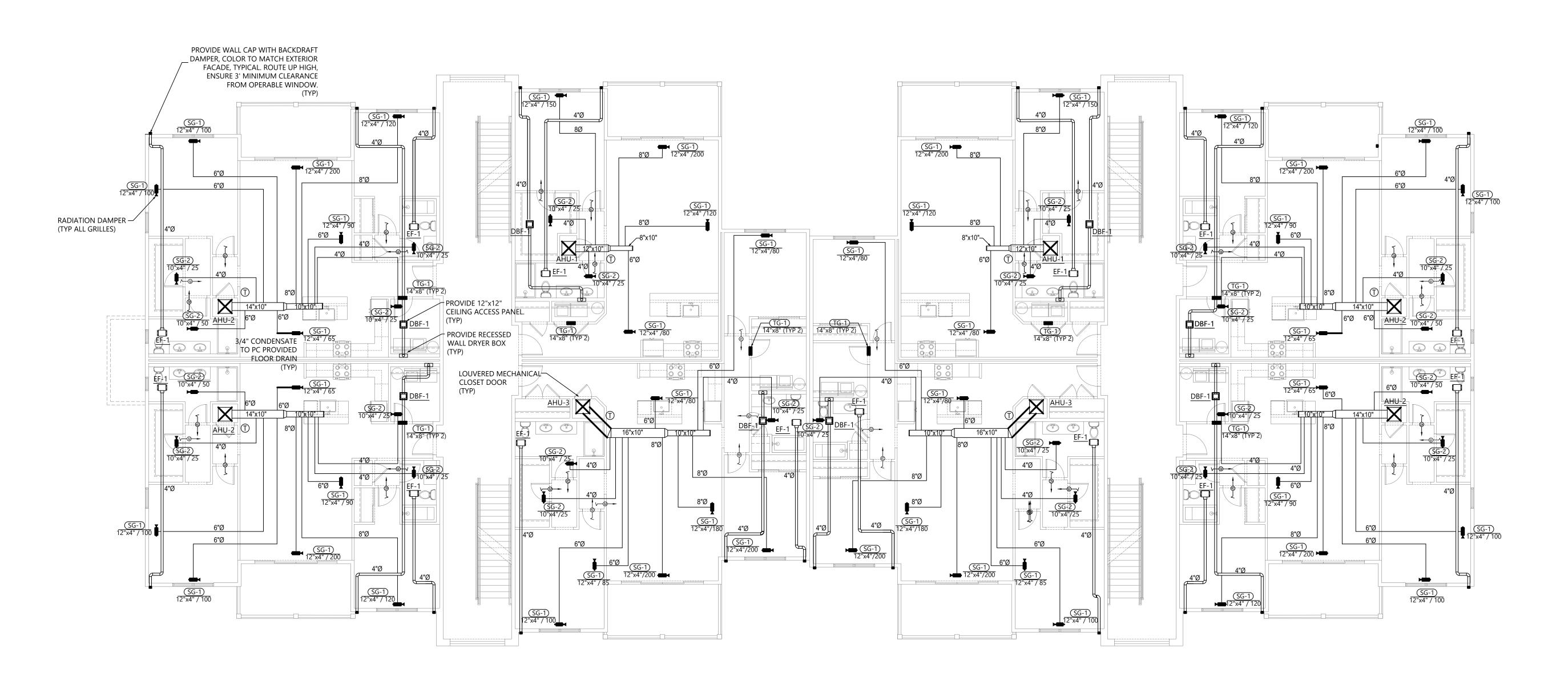
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FIRST FLOOR -**BUILDING 3**



MECHANICAL PLAN - BUILDING 3 (28 UNIT BUILDING) - SECOND FLOOR

1/8"=1'-0"

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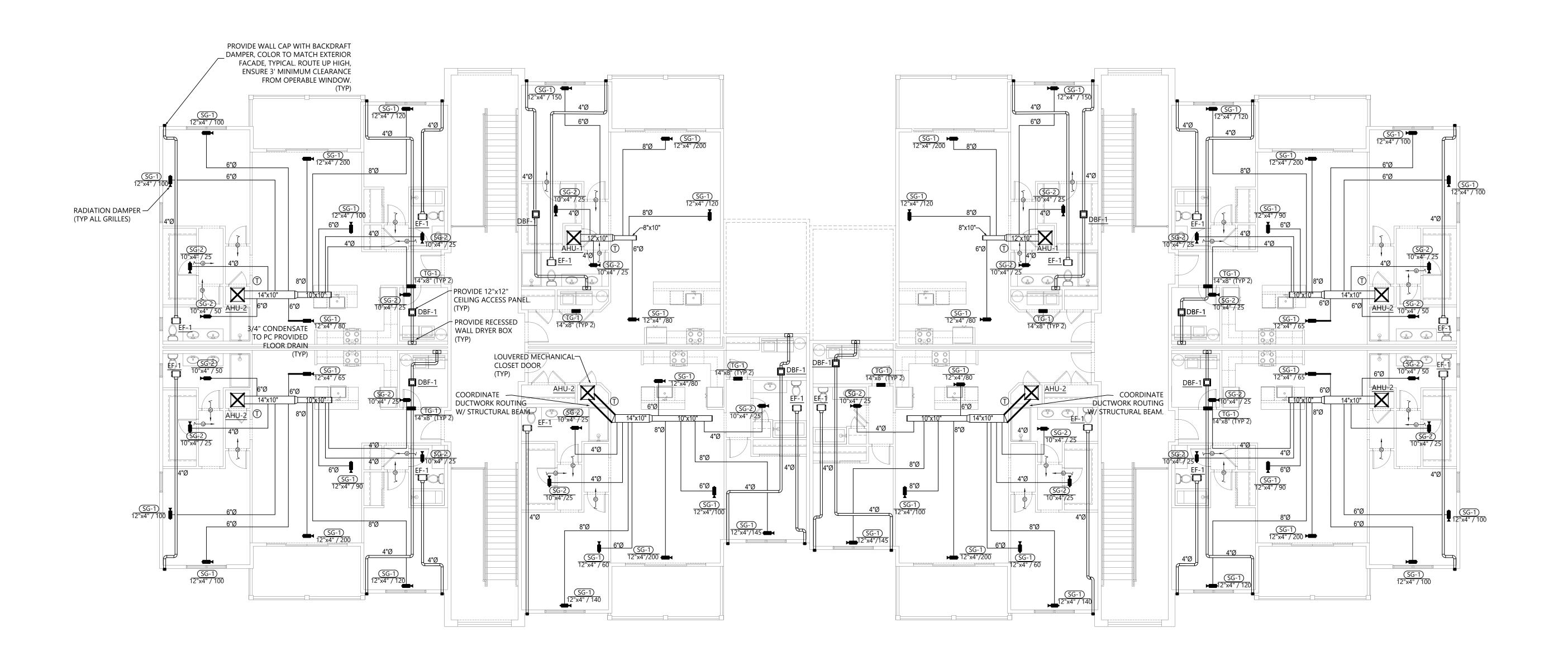
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	EVISIONS

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SECOND FLOOR -**BUILDING 3**



MECHANICAL PLAN - BUILDING 3 (28 UNIT BUILDING) - THIRD FLOOR

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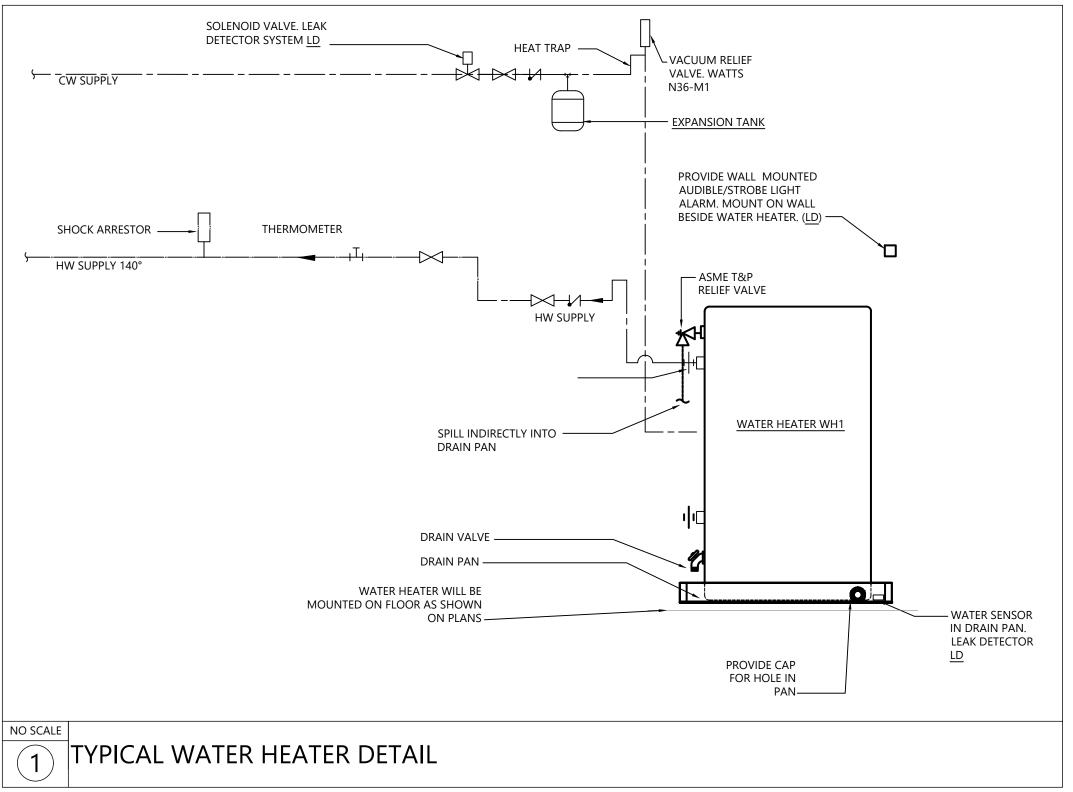
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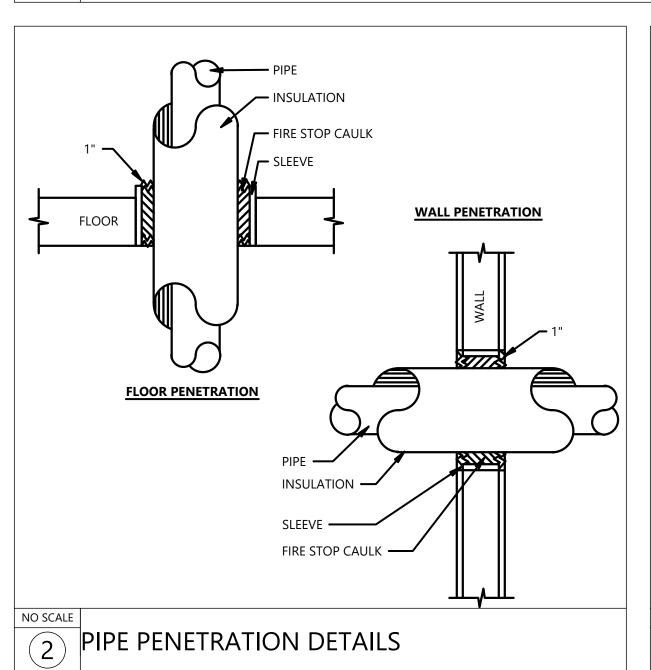
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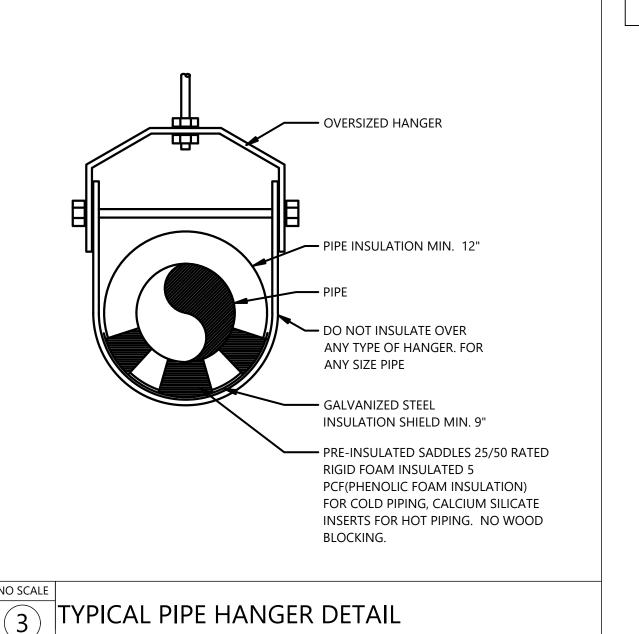
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MECHANICAL PLAN THIRD FLOOR -BUILDING 3

M-4







							PL	UMBING FI	XTURE SCH	EDULE														
T/	\G	MANUFACTURER	MODEL	WATER	FINISH	ADA	MOUNTING	CONNECTION	OPERATION	ACCESSORIES		RUNOUT		Έ	COMMENTS									
WATER	WC-1 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"	HW -	W 3"	2"	<u>-</u>									
	<u>LAV-1</u> BOWL	AMERICAN STANDARD	RELIANT DROP- IN/0476228	-	WHITE VITREOUS CHINA	YES	DROP IN	4" CENTERS	FAUCET	-											1/2"	1 1/4"	1 1/4"	-
LAVATORY	<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"	1-1/4"	-									
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	<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

NEW PIPING ABBR.	DESCRIPTION	
— - — - — cw	COLD WATER PIPING	
—— — — HW	HOT WATER PIPING	
HWR	HOT WATER RETURN PIPING	
—— W	SANITARY WASTE PIPING	
— — — v	SANITARY VENT PIPING	
DD	DRAIN	
	ELBOW DOWN	
 0 -	ELBOW UP	
	PIPE CONTINUES	
	BALL VALVE	
── c∨	CHECK VALVE	
————	FLOOR CLEAN OUT	
	WALL CLEAN OUT	
—— ⊚ YCO	YARD CLEAN OUT	
—+ ^T _ HB	HOSE BIBB/WALL HYDRANT	
<u> </u>	SHOCK ARRESTOR - SUFFIX INC	DICATES PDI SIZE
	THERMOMETER	
<u> </u>	PRESSURE GAUGE	
	ADDITIONAL A	BBREVIATIONS
ABV ABOVE	D ELOOP	KW KILOWATT

	THESSONE GROGE					
	ADDITIONAL ABBREVIATIONS					
ιBV	ABOVE	KW	KILOWATT			
\FF	ABOVE FINISHED FLOOR	LAV	LAVATORY			
١FG	ABOVE FINISHED GRADE	MBH	1,000 BTUH			
AS	BUILDING AUTOMATION SYSTEM	MFG	MANUFACTURER			
EL	BELOW	MH	MOUNTING HEIGHT			
FF	BELOW FINISHED FLOOR	PH	PHASE			
TUH	BRITISH THERMAL UNIT / HOUR	PSI	POUNDS PER SQUARE INCH			
FΗ	CUBIC FEET PER HOUR	SF	SQUARE FEET			
LG	CEILING	SFU	SUPPLY FIXTURE UNITS			
ONT	CONTINUATION	T&P	TEMPERATURE AND PRESSURE			
FU	DRAINAGE FIXTURE UNIT (WASTE)	TYP	TYPICAL			
N	DOWN	UR	URINAL			
E)	EXISTING	VB	VACUUM BREAKER			
Χ	EXISTING	VLV	VALVE			
FE	FINISHED FLOOR ELEVATION	VTR	VENT THRU ROOF			
IN	FINISH	WC WC	WATER COLUMN			
L	FLOOR	EC	ELECTRICAL CONTRACTOR			
R	FROM	GC	GENERAL CONTRACTOR			
U	FIXTURE UNITS	MC	MECHANICAL CONTRACTOR			
iPC	GALLONS PER CYCLE (METERING)	PC	PLUMBING CONTRACTOR			
PF	GALLONS PER FLUSH					
PM	GALLONS PER MINUTE					
IP	HORSE POWER					

INVERT ELEVATION

DOMESTIC WATER PIPING:

DOMESTIC COLD WATER

- DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: 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:

SERVICE TYPE PIPE SIZES INSULATION THICKNESS

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"

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.

1-1/2" - 4"

- 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.
- 8. 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:

- 1. 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.
- 11. 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
- 13. DO NOT 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 <u>NOT</u> ATTACH TO THE DECK.

STRUCTURE. PROVIDE ACCESS DOORS FOR CONCEALED SPECIALTIES.

- 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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engineering

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341 N Main Street
Hendersonville, NC 28792



PROPERTIES

Irchards at Naples Koad

partment Complex

dersonville, North Carolina

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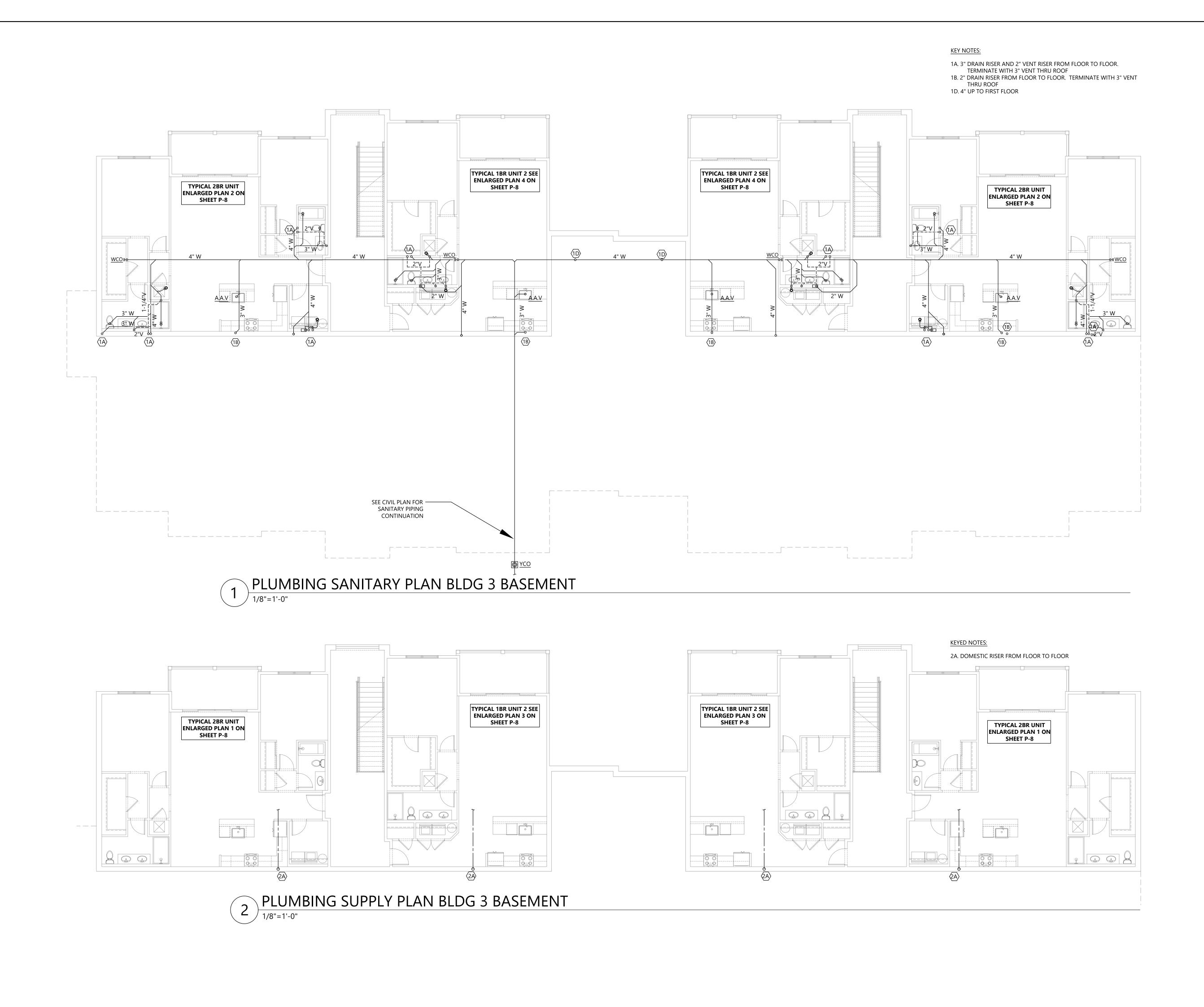
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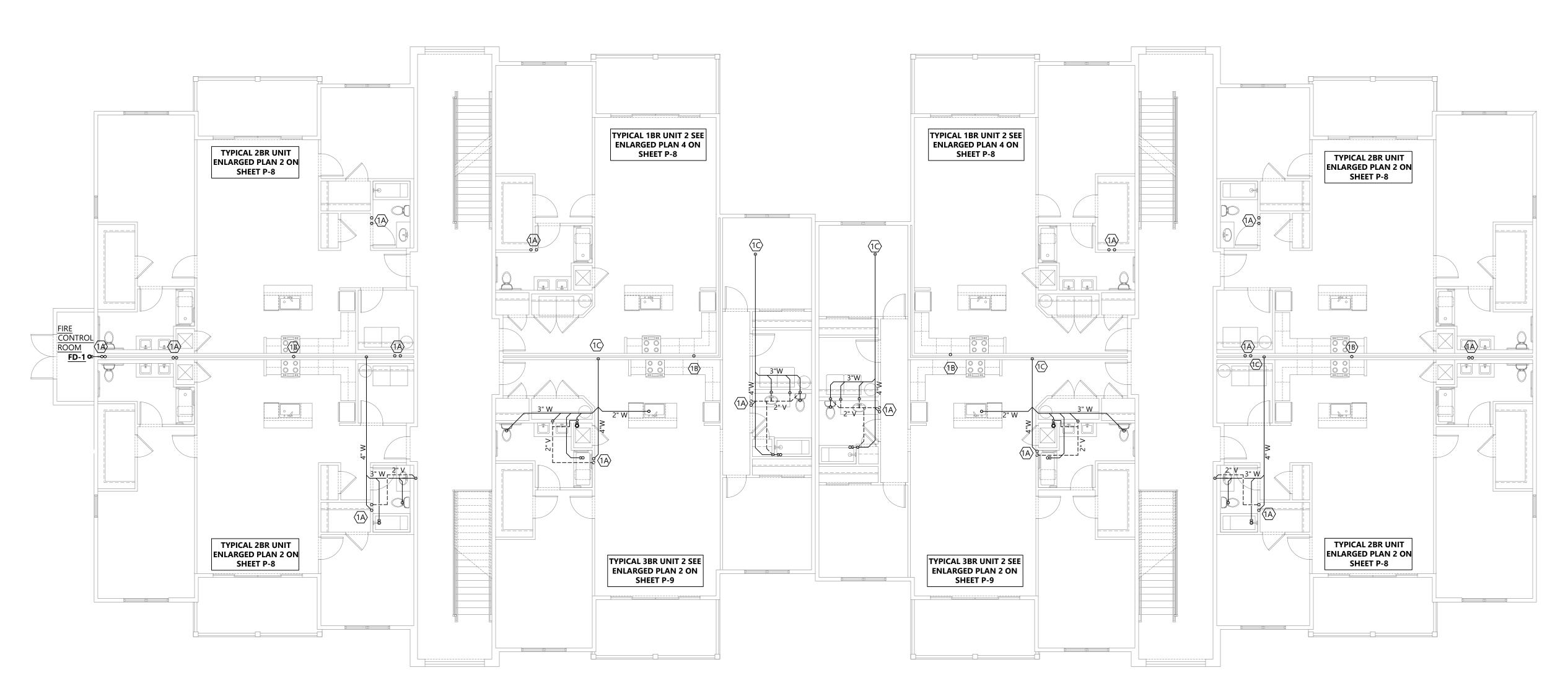
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PLUMBING PLAN **BLDG 3 BASEMENT**



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
- THRU ROOF
- 1C. 4" DRAIN DOWN TO BASEMENT





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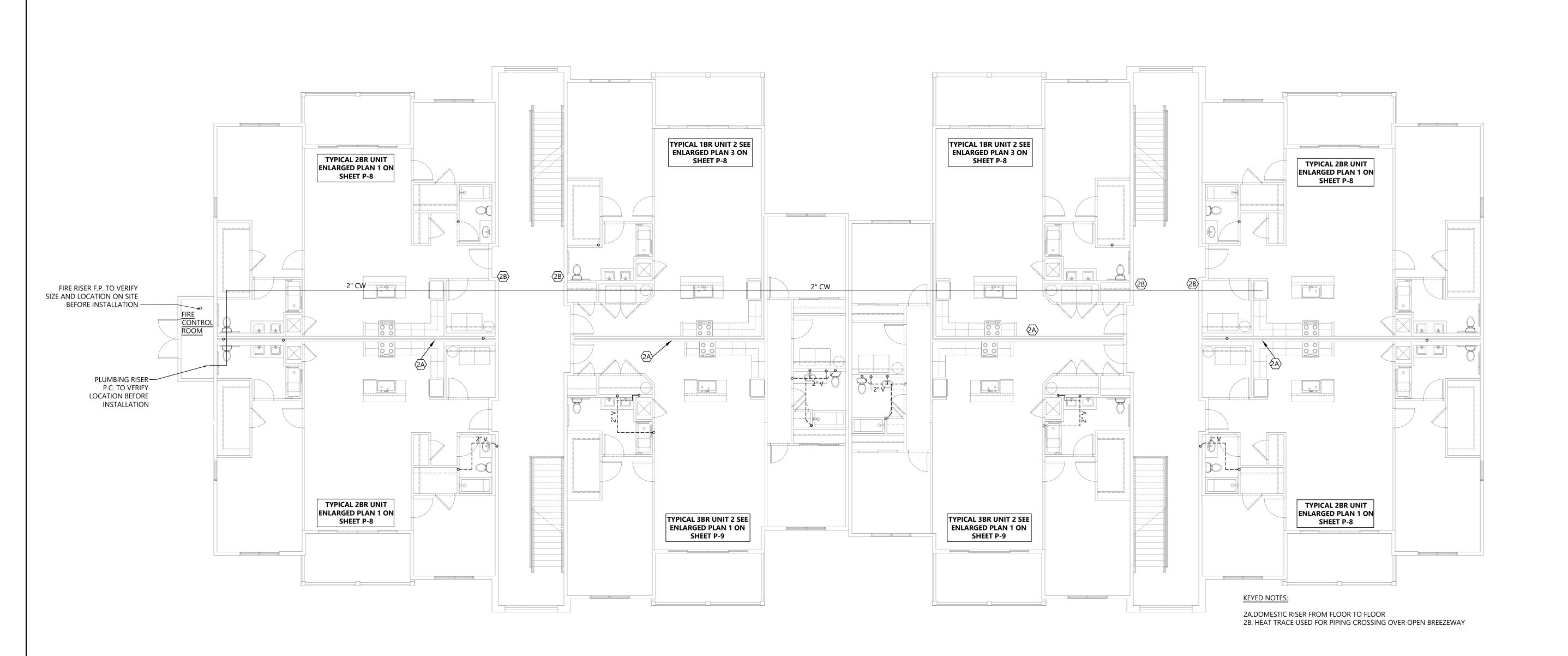
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PLUMBING SANITARY PLAN BLDG 3 FIRST FLOOR



2 PLUMBING SUPPLY PLAN BLDG 3 FIRST FLOOR

1/8"=1'-0"

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PROJECT:

The Orchards at Naples Road
Apartment Complex
Handersandle North Confine

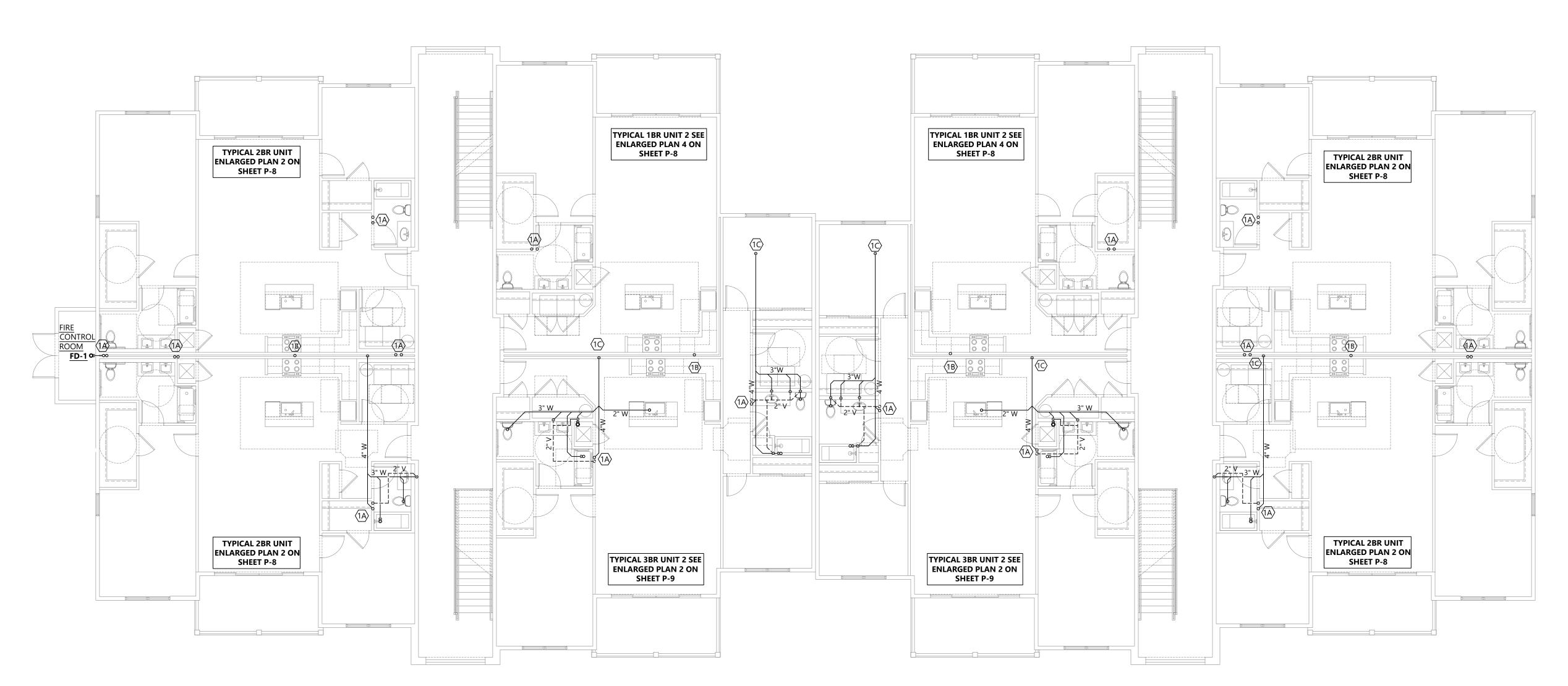
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PLUMBING SUPPLY
PLAN BLDG 3
FIRST FLOOR

P-3

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TERMINATE WITH 3" VENT THRU ROOF

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THRU ROOF

1C. 4" DRAIN DOWN TO BASEMENT

PLUMBING SANITARY PLAN BLDG 3 SECOND FLOOR

1/8"=1'-0"

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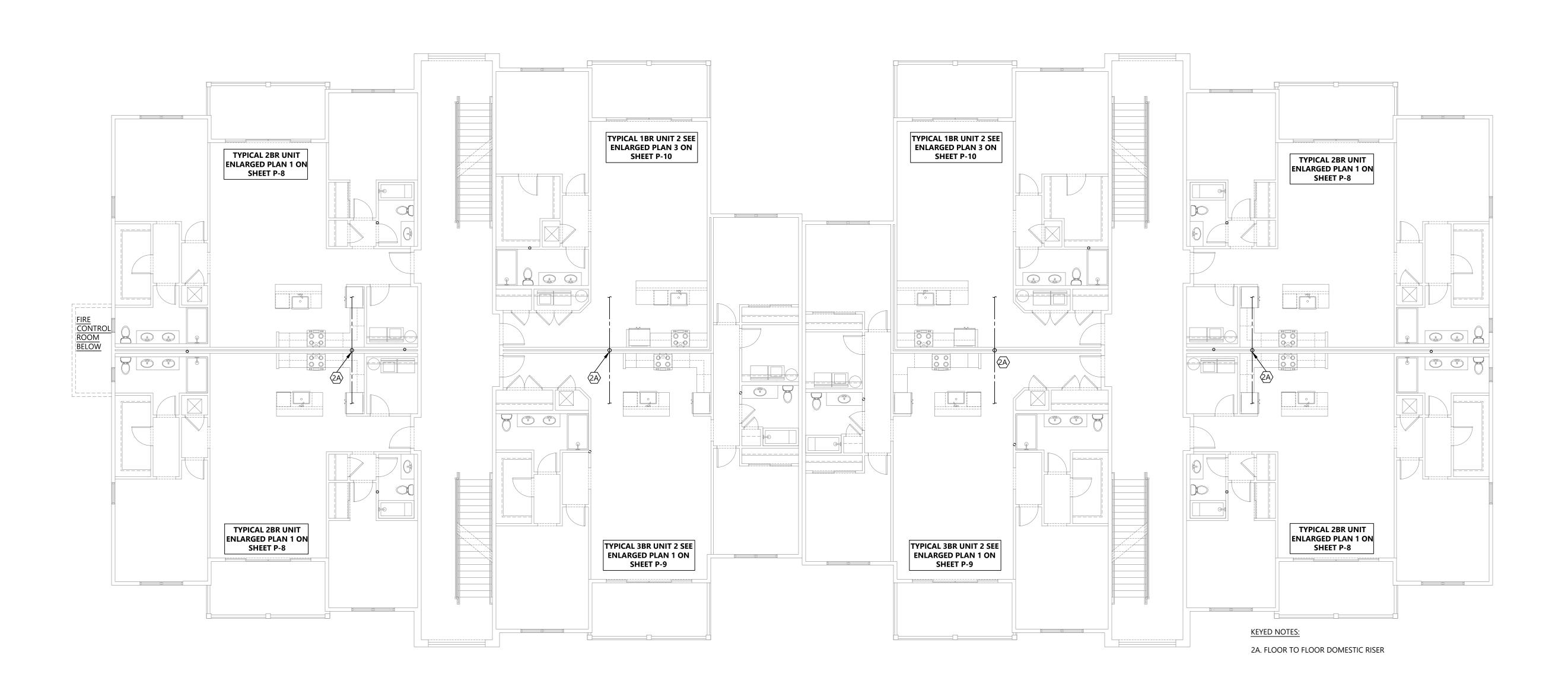
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PLUMBING SUPPLY PLAN BLDG 3 SECOND FLOOR

1/8"=1'-0"

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Orchard

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andersonville North Carolina

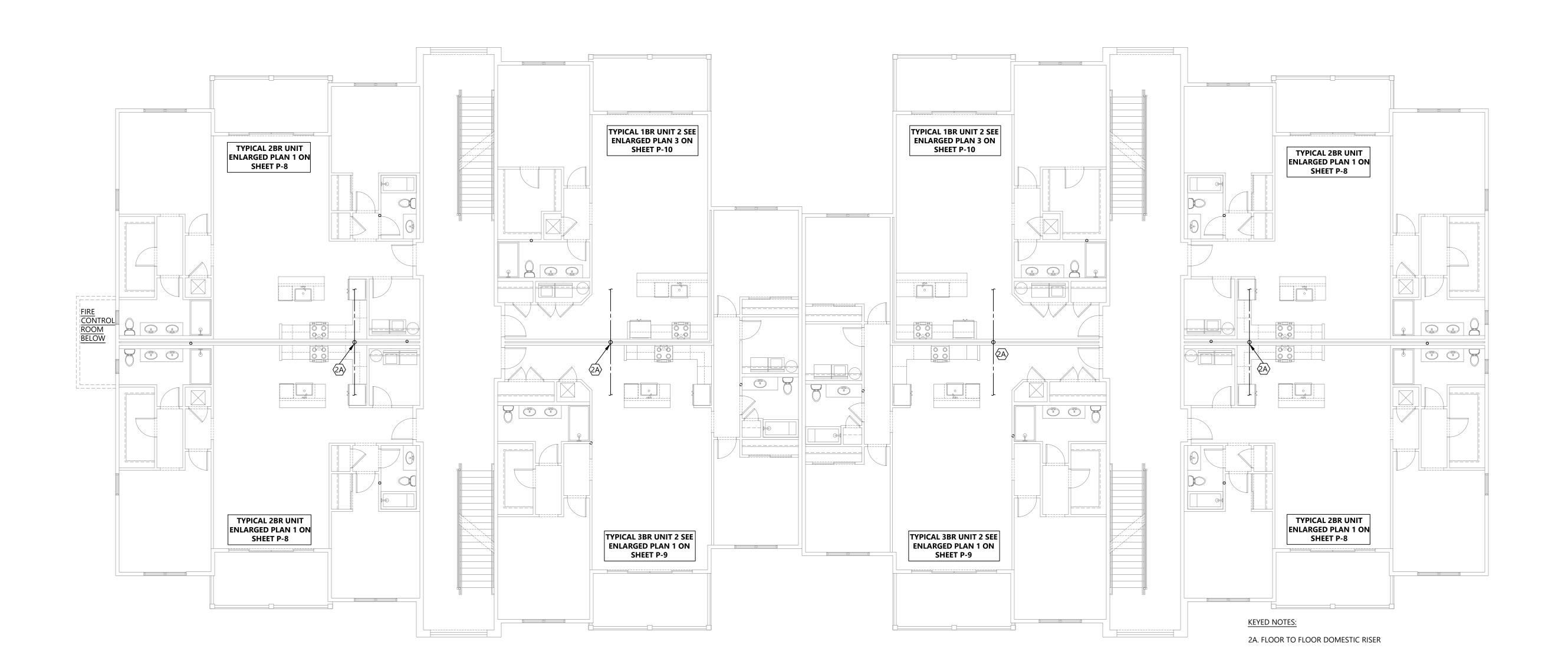
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PLUMBING SUPPLY
PLAN BLDG 3 SECOND
FLOOR

P-5

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2 PLUMBING SUPPLY PLAN BLDG 3 THIRD FLOOR

1/8"=1'-0"



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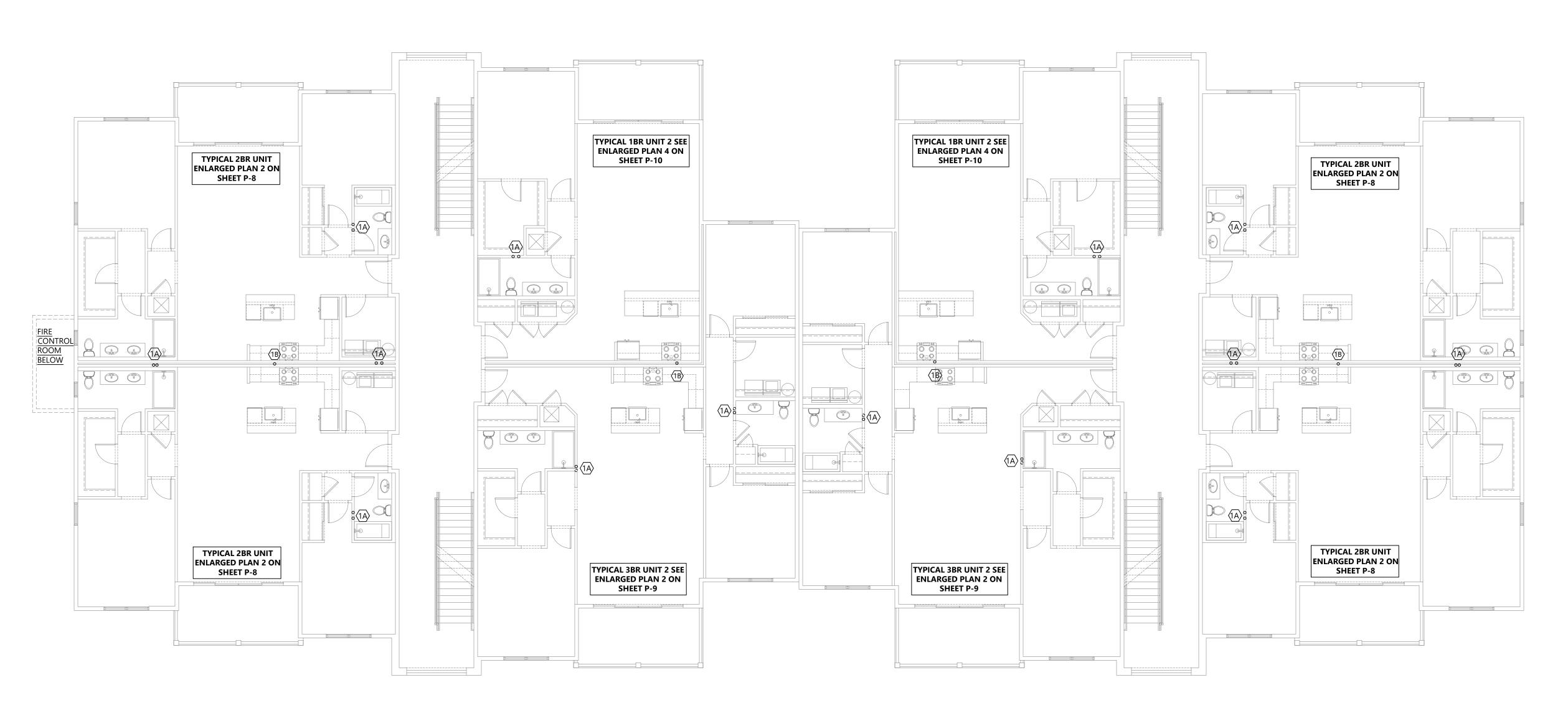
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PLUMBING SUPPLY PLAN BLDG 3 THIRD FLOOR

P-6



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2 PLUMBING SANITARY PLAN BLDG 3 THIRD FLOOR

1/8"=1'-0"

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PLUMBING SANITARY PLAN BLDG 3 THIRD FLOOR

P.7



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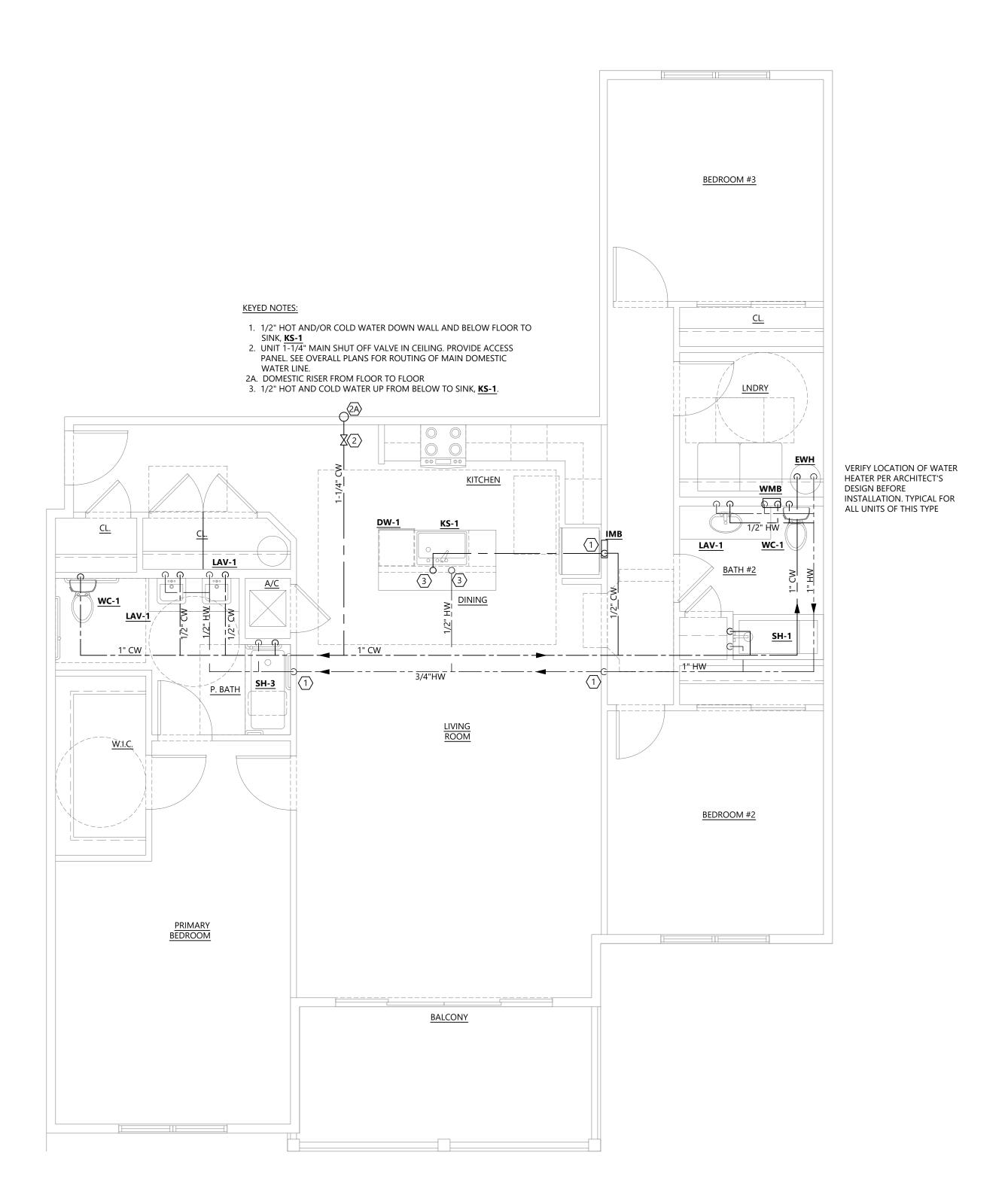
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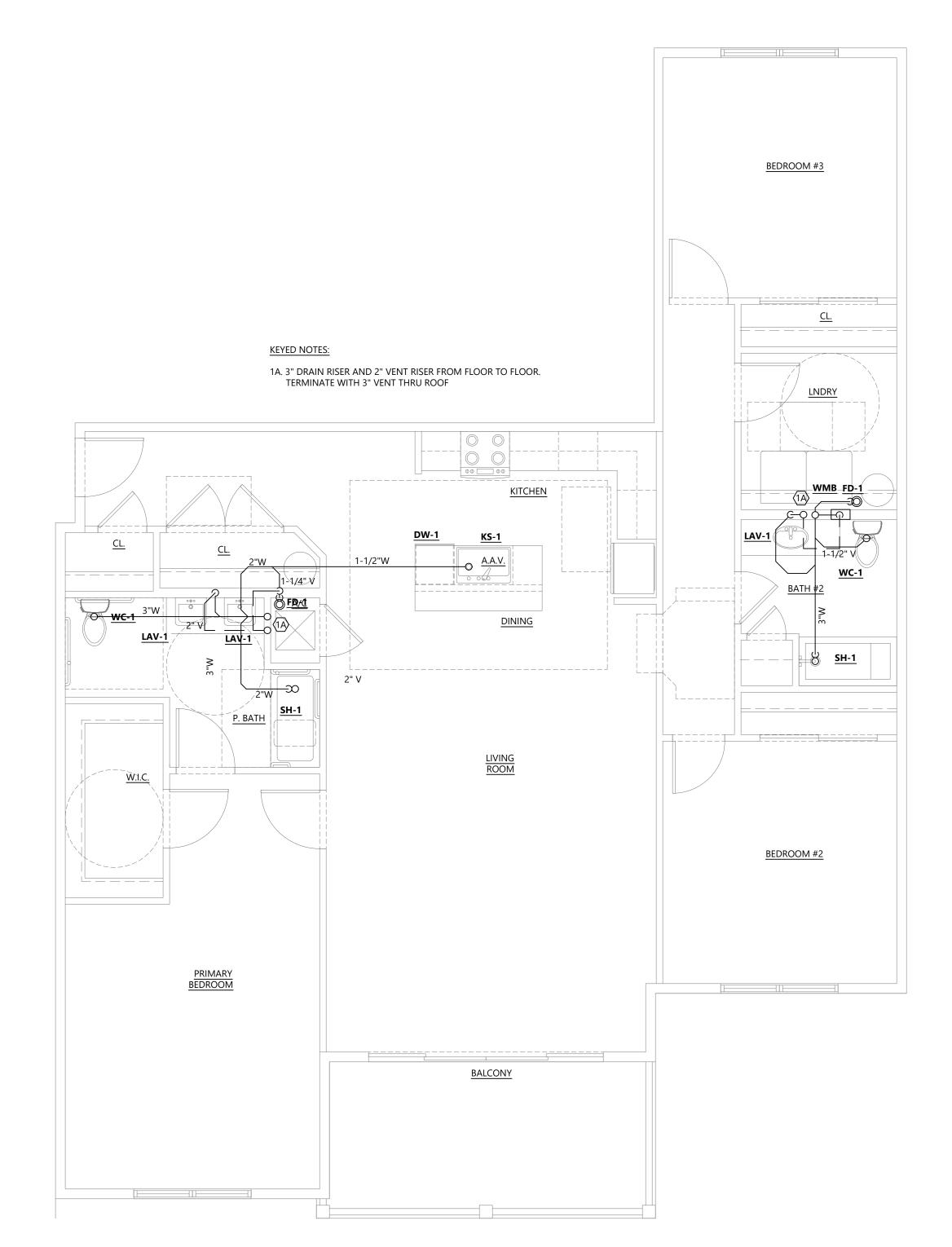
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DWG DECRIPTION: **ENLARGED UNIT PLANS**







2 TYPICAL 3BR PLUMBING SANITARY PLAN
1/4"=1'-0"

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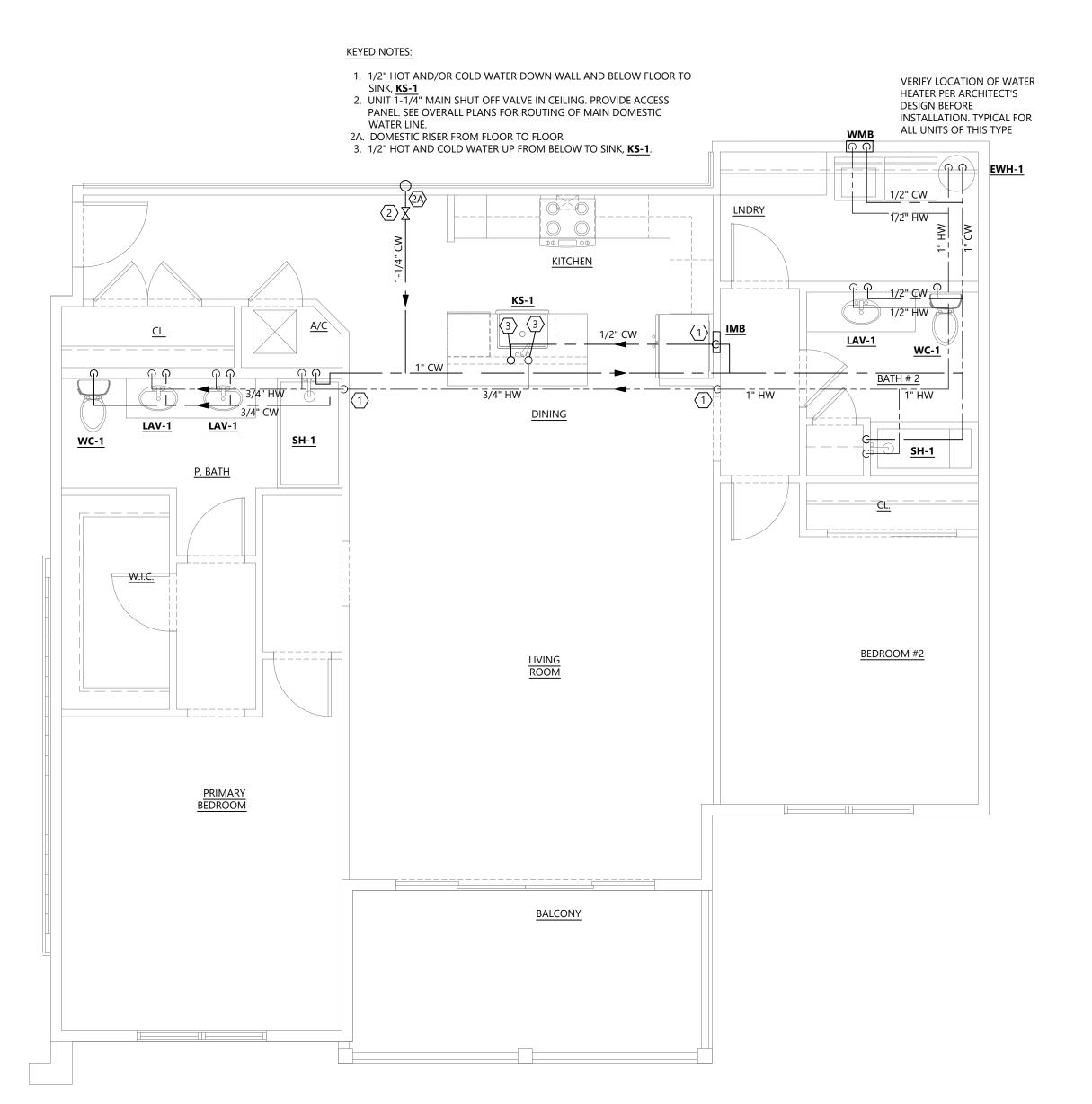
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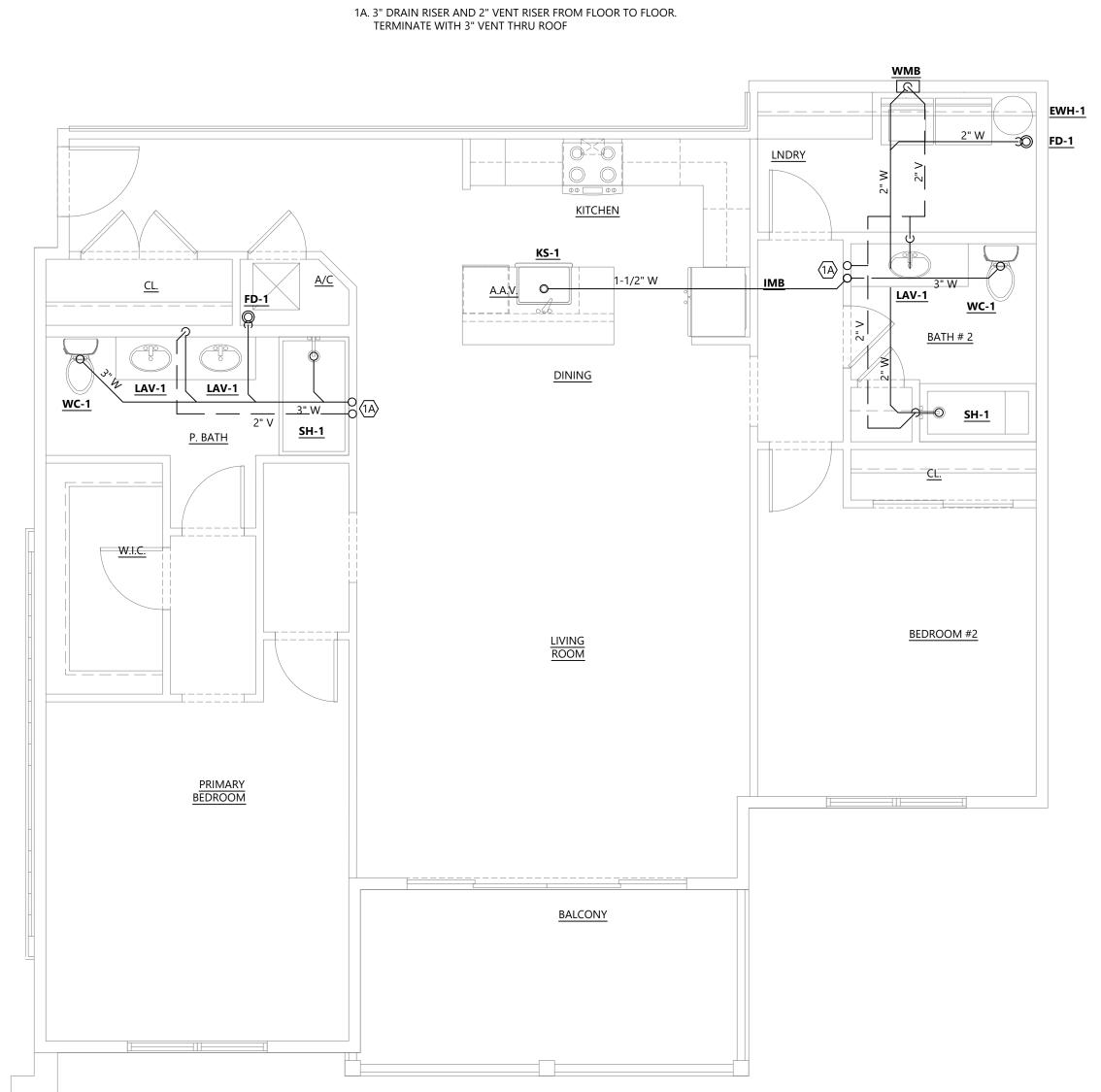
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ENLARGED UN PLANS

P_9

VILDE #: 24-125





1 TYPICAL 2BR UNIT LEVEL 3 PLUMBING SUPPLY PLAN

2 TYPICAL 2BR UNIT LEVEL 3 PLUMBING SANITARY PLAN

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DWG DECRIPTION: **ENLARGED UNIT PLANS**

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

 ESCUTCHEON/FACED ATE WITH ARCHITECT/OWNER

 OF THE CONTRACTOR SHALL VERIFY FINISH OF

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- 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.

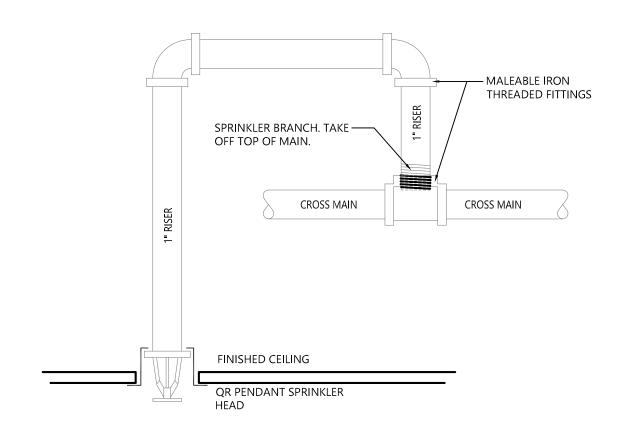
GENERAL PROJECT NOTES:

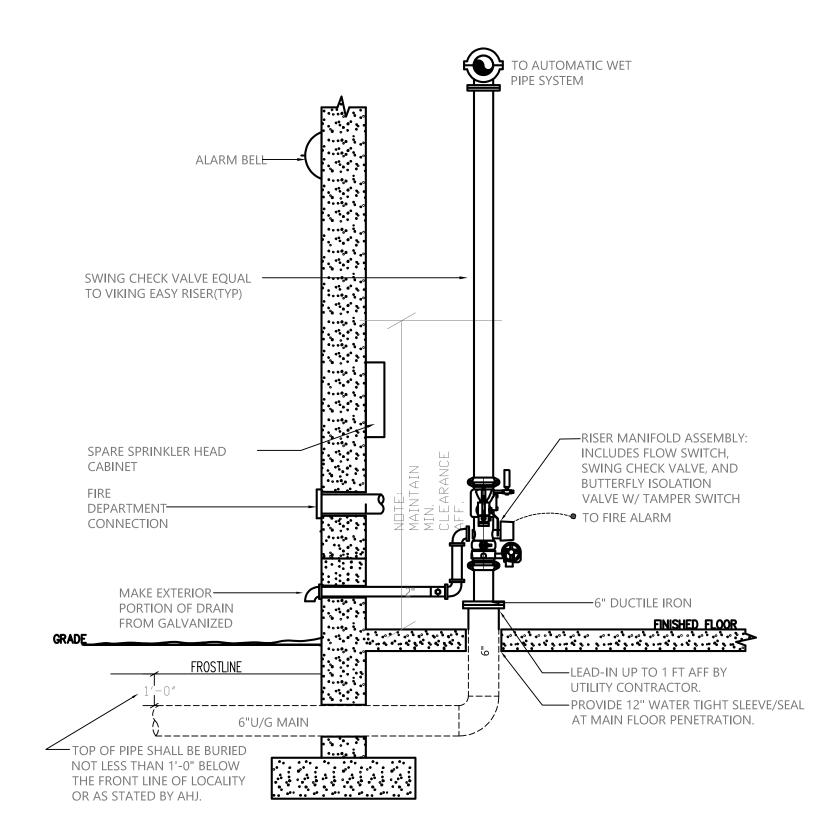
I. MOUNT SPRINKLERS WITHIN CENTER OF A.C.T.
2. SPRINKLERS SHALL BE A MINIMUM 4" FROM WALLS/OBSTRUCTION.

- 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.
- PROVIDE UPRIGHT HEADS WITHIN OPEN CEILINGS.
 PROVIDE SEMI RECESSED HEADS WITHIN A.C.T. CEILINGS.
- 8. 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
- 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

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Luis Graef: President



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PROJECT:

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REVISIONS

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CHECKED BY: JK

FIRE PROTECTION
COVER SHEET
BLDG 3

FP-00