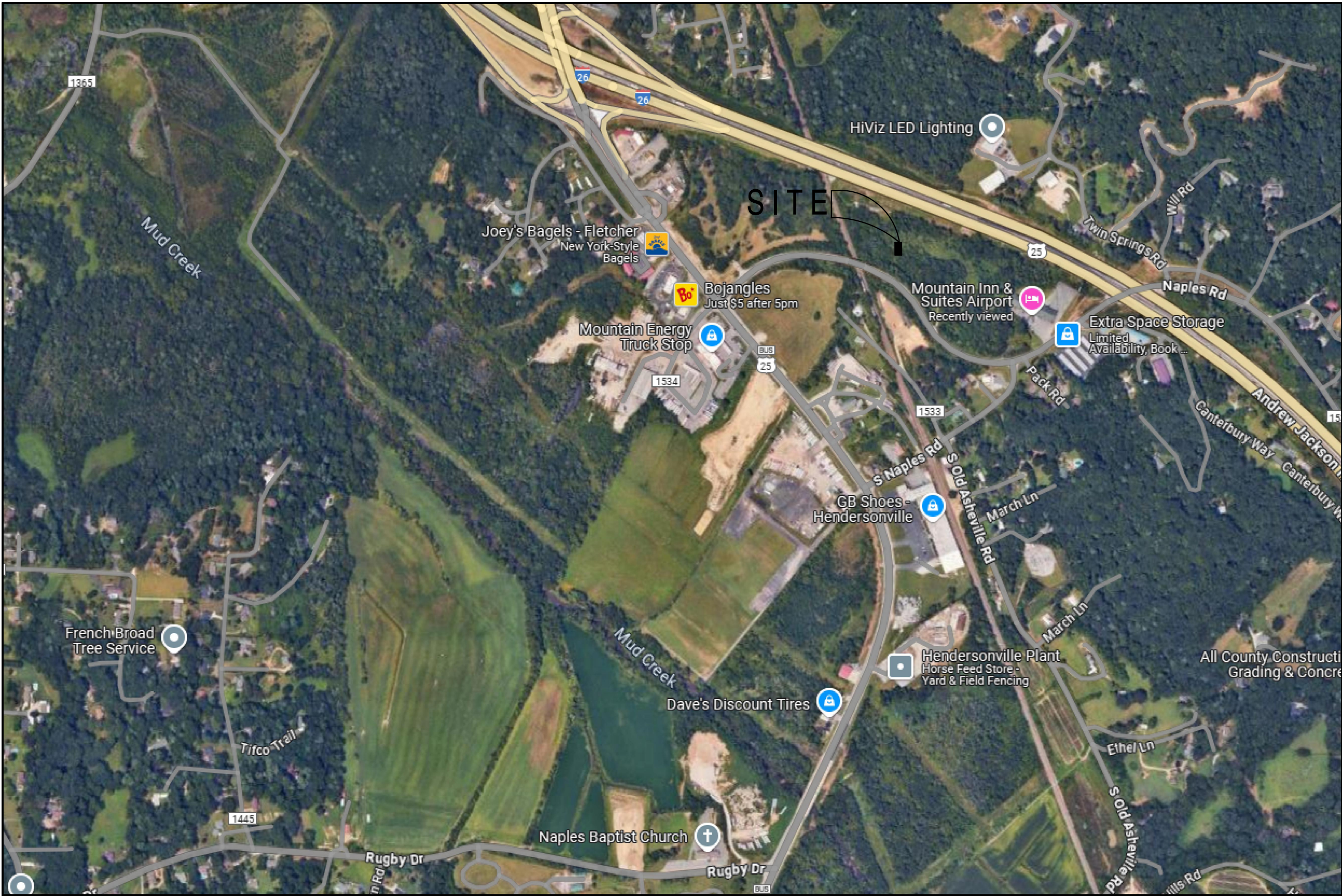


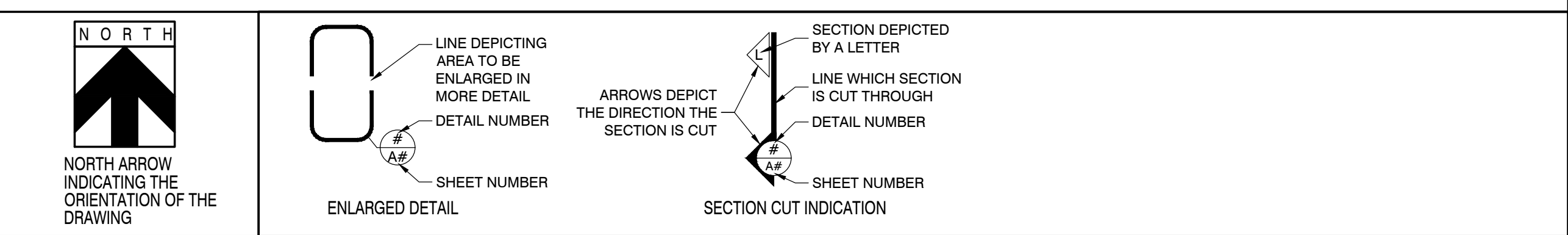
GENERAL ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	SQ.	SQUARE
ACOUS.	ACOUSTICAL	STD.	STANDARD
ADJ.	ADJUSTABLE	STL.	STEEL
ALUM.	ALUMINUM	STOR.	STORAGE
&	AND	SUSP.	SUSPENDED
<	ANGLE	T.C.	TIME CLOCK
ARCH.	ARCHITECTURAL	T.O.	TOP OF
@	AT	TEL.	TELEPHONE
BD.	BOARD	THK.	THICK
BLDG.	BUILDING	TYP.	TYPICAL
BLK.	BLOCK	U.O.N.	UNLESS OTHERWISE NOTED
BLKG.	BLOCKING	VERT.	VERTICAL
BM.	BEAM	V.I.F.	VERIFY IN FIELD
BOT.	BOTTOM	W.	WEST
CAB.	CABINET	W/	WITH
CEM.	CEMENT	W/C	WATER CLOSET
CL.	CENTERLINE	W/O	WITHOUT
CER.	CERAMIC	W/R	WATER RESISTANT
CLG.	CEILING	WD.	WOOD
CLKG.	CAULKING	WT.	WEIGHT
CLR.	CLEAR		
COL.	COLUMN		
CONC.	CONCRETE		
C.M.U.	CONCRETE MASONRY UNIT		
CONT.	CONTINUOUS		
DET.	DETAIL		
DIA.	DIAMETER		
DIM.	DIMENSION		
DR.	DOOR		
DBL.	DOUBLE		
DN.	DOWN		
DS.	DOWNSPOUT		
DWG.	DRAWING		
(E)	EXISTING		
E.P.	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		
F/F	FINISH TO FINISH		
F.R.	FIRE RETARDANT		
F.S.	FULL SIZE		
FIN.	FINISH		
FL.	FLOOR		
FLUOR.	FLUORESCENT		
FT.	FOOT, FEET		
F.V.	FIELD VERIFY		
G.B.	GRAB BAR		
G.C.	GENERAL CONTRACTOR		
GA.	GAUGE		
G.F.R.C.	GLASS FIBER REINFORCED CEMENT		
GL.	GLASS		
GYP.	GYPSUM		
H.C.	HOLLOW CORE		
H.M.	HOLLOW METAL		
HC.	HANDICAPPED		
HDWD.	HARDWOOD		
HORIZ.	HORIZONTAL		
HGT.	HEIGHT		
HR.	HOOR		
H.T.	HANGER-TIGHT UNIT		
HVAC	HEATING, VENTILATION, AIR CONDITIONING		
I.D.	INSIDE DIAMETER		
INSUL.	INSULATION		
JT.	JOINT		
LAM.	LAMINATE		
LT.	LIGHT		
MIR.	MIRROR		
MAX.	MAXIMUM		
MECH.	MECHANICAL		
MFR.	MANUFACTURER		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
MTL.	METAL		
N.	NORTH		
N.I.C.	NOT IN CONTRACT		
N.T.S.	NOT TO SCALE		
(N)	NEW		
NO.	NUMBER		
NOM.	NOMINAL		
OPNG.	OPENING		
OPP.	OPPOSITE		
P.LAM.	PLASTIC LAMINATE		
PL.	PLATE		
PLAS.	PLASTER		
PLYWD.	PLYWOOD		
PR.	PAIR		
PT.	POINT		
#	POUND OR NUMBER		
R.	RISER		
RAD.	RADIUS		
REQ'D.	REQUIRED		
RESIL.	RESILIENT		
RM.	ROOM		
R.O.	ROUGH OPENING		
S.	SOUTH		
S.C.	SOLID CORE		
S.S.	STAINLESS STEEL		
SCHED.	SCHEDULE		
SHT.	SHEET		
SIM.	SIMILAR		
SPEC.	SPECIFICATION		



LOCATION MAP - 399 NAPLES RD.- SEE CIVIL

SYMBOLS AND GRAPHICS



PROFESSIONAL CONSULTANTS

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JDH STRUCTURAL ENGINEERS PLLC - NC FIRM LIC. NO. P-1593 (STRUCTURAL) 19545 GREENTREE WAY, SUITE B CORNELIUS, NC 28031 ph: 704-997-7072
WGLA ENGINEERING PLLC - NC FIRM LIC. NO. P-1342 (CIVIL) 724 5TH AVE. WEST HENDERSONVILLE, NC 28729 ph: 828-687-7177

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 GRADE 4)

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

OCCUPANCY GROUP: RESIDENTIAL R2 - 28 UNITS

FIRE RATINGS FOR BUILDING ELEMENTS REQUIRED- 1 HR (TABLE 601)

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

CODE INFORMATION:

COUNTY JURISDICTION: HENDERSON
STATE JURISDICTION: NORTH CAROLINA

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

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DATE	SHEET	SHEET TITLE
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	A-0.0	OVERALL BASEMENT FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-0.1	PARTIAL BASEMENT FLOOR PLAN.
	A-0.2	PARTIAL BASEMENT FLOOR PLAN.
	A-1.0	OVERALL FIRST FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-1.1	PARTIAL FIRST FLOOR PLAN.
	A-1.2	PARTIAL FIRST FLOOR PLAN.
	A-2.0	OVERALL SECOND FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-2.1	PARTIAL SECOND FLOOR PLAN.
	A-2.2	PARTIAL SECOND FLOOR PLAN.
	A-3.0	OVERALL THIRD FLR. PLAN & WINDOW/DOOR SCHEDULES.
	A-3.1	PARTIAL THIRD FLOOR PLAN.
	A-3.2	PARTIAL THIRD FLOOR PLAN.
	A-4	ROOF PLAN
	A-5.1	PARTIAL FRONT ELEVATION.
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	A-5.3	RIGHT SIDE ELEVATION.
	A-5.4	PARTIAL REAR ELEVATION.
	A-5.5	PARTIAL REAR ELEVATION.
	A-5.6	LEFT SIDE ELEVATION.
	A-6.1	BUILDING SECTION - "A-A" & SECTION DETAILS.
	A-6.2	BUILDING SECTION - "B-B" & SECTION DETAILS.
	A-6.3	BUILDING SECTION - "C-C"
	A-6.4	BUILDING SECTION - "D-D"
	A-6.5	BUILDING SECTION - "E-E" & SECTION DETAILS.
	A-6.5	PARTIAL BUILDING SECTIONS - "F" & "G" & SECTION DETAILS.
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	S-0.01	GENERAL NOTES.
	S-1.00	TYPICAL DETAILS.
	S-1.01	TYPICAL DETAILS.
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	S-1.03	TYPICAL DETAILS.
	S-2.01B	BASEMENT FOUNDATION FRAMING PLAN.
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	S-2.03	SECOND FLOOR FRAMING PLAN.
	S-2.04	THIRD FLOOR FRAMING PLAN.
	S-2.05	ROOF FRAMING PLAN.
	S-3.00	FOUNDATION SECTIONS.
	S-3.01	FOUNDATION SECTIONS.
	S-4.00	FLOOR FRAMING SECTIONS.
	S-4.01	FLOOR FRAMING SECTIONS.
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		FIRE
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		CIVIL

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

PROJECT:
The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

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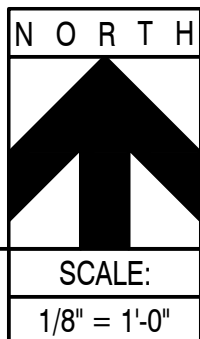
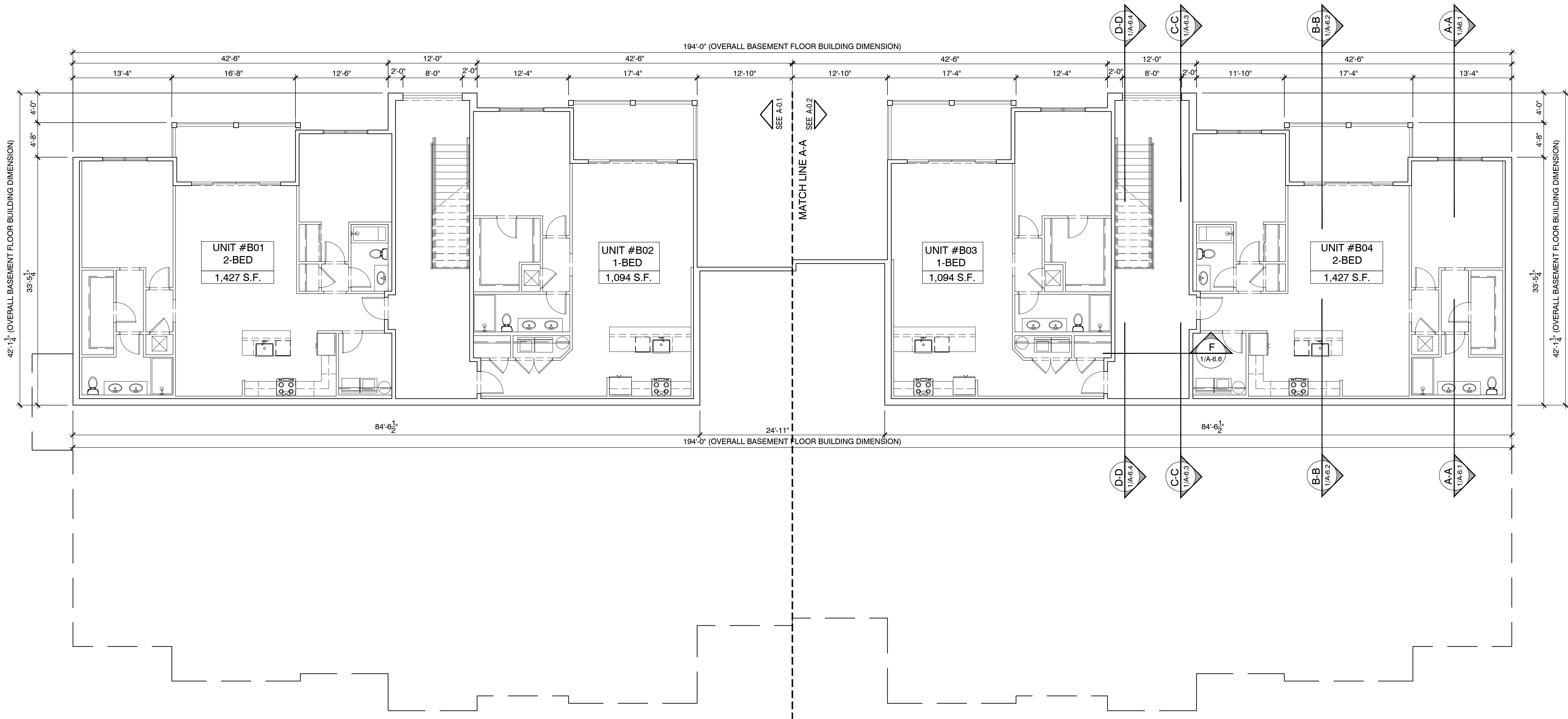
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CS-1

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

BASEMENT EXTERIOR DOOR SCHEDULE								
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS
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"	X	HOLLOW METAL	MTWS		EGRESS

BASEMENT INTERIOR DOOR SCHEDULE					
No.	TYPE	W x 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.	2,755 S.F.	412 S.F.	6,368 S.F.
B02	1	-	1,081 S.F.	134 S.F.	1,215 S.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.			

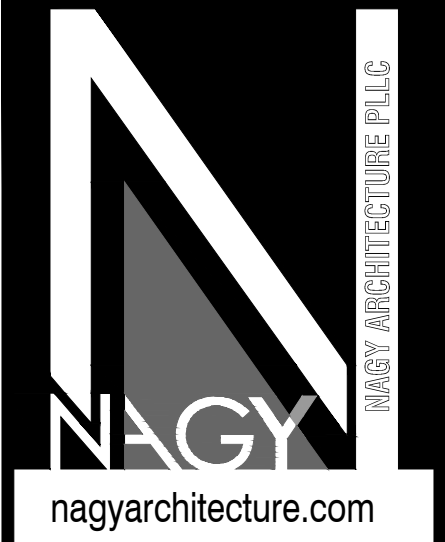


OVERALL BASEMENT FLOOR PLAN

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

1

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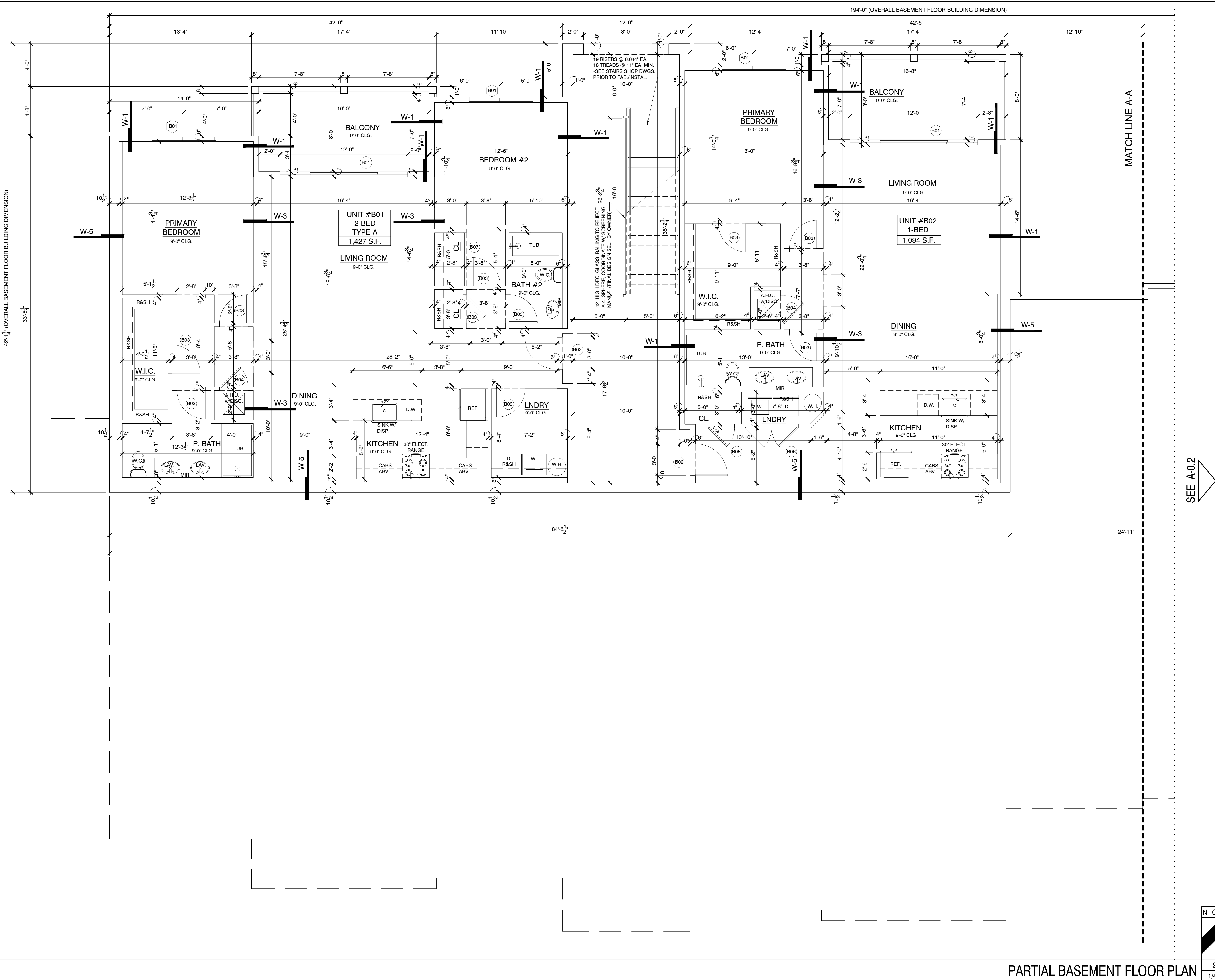
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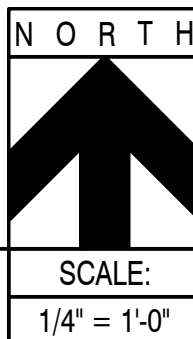
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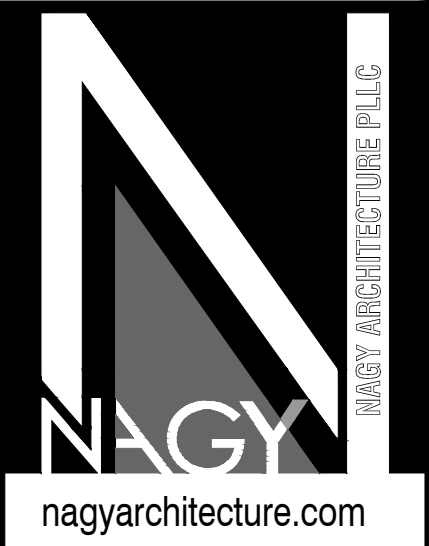
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PARTIAL BASEMENT FLOOR PLAN



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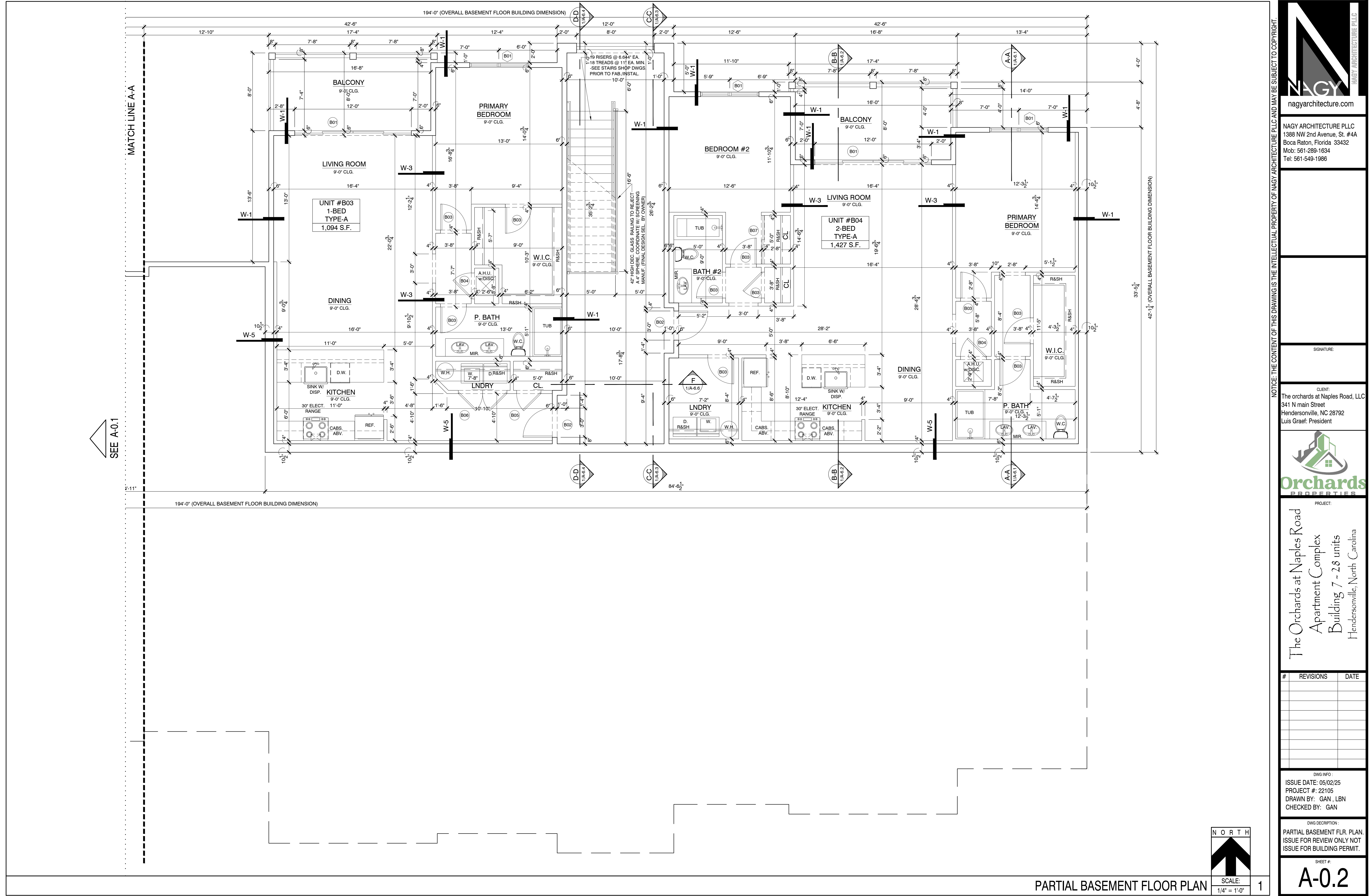
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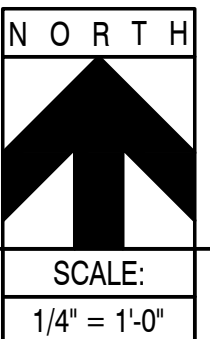
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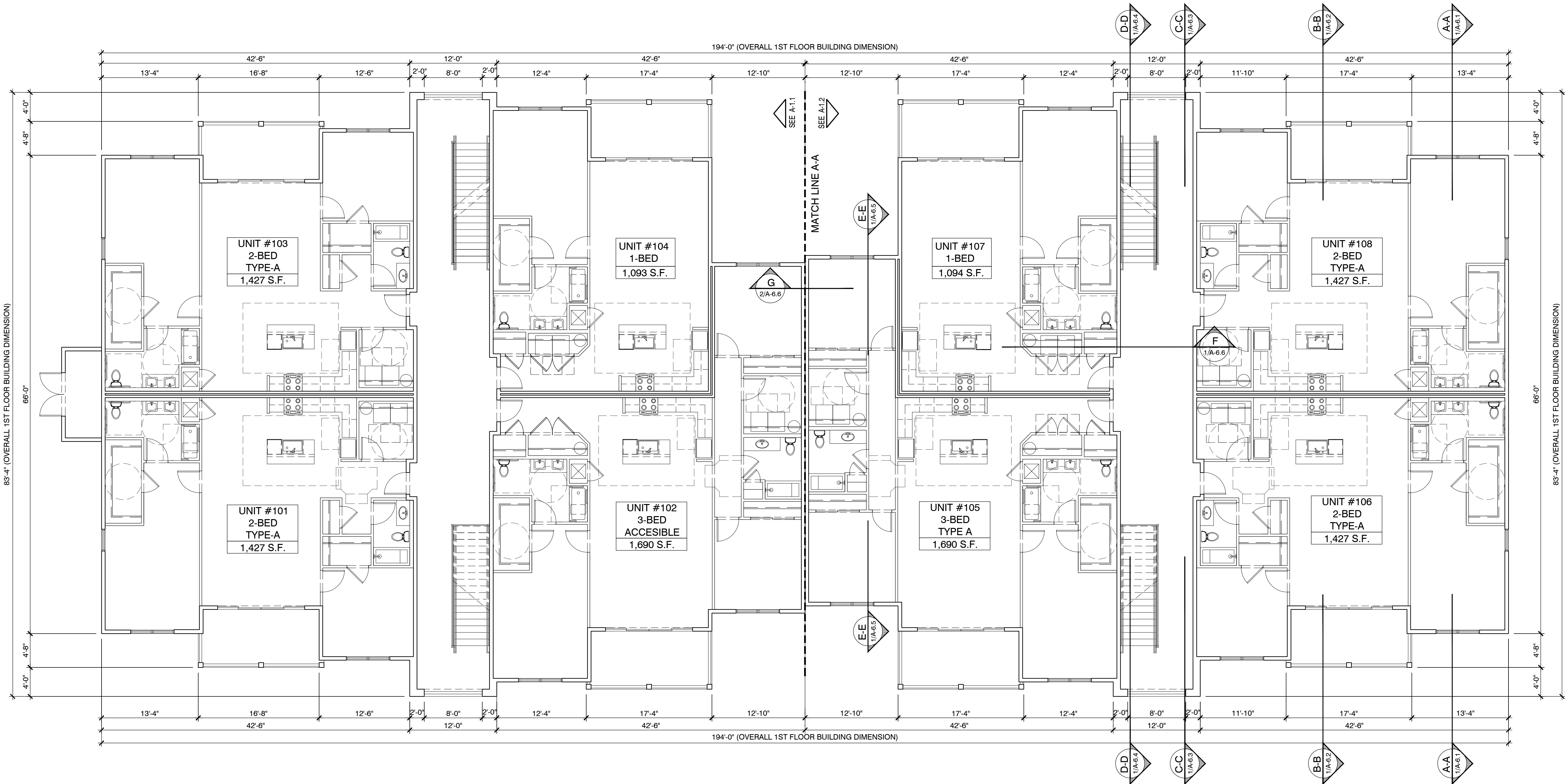


FIRST FLOOR WINDOW SCHEDULE							
No.	TYPE	W x H	R. O. W x H	OPER.	MATERIAL	SILL	REMARKS
101	DOUBLE SINGLE HUNG	(2) 36" X 60"	72" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(2) PANE TEMPERED GLASS
102	SINGLE HUNG	36" X 60"	36" X 60"	XX	VINYL/GLS.	@ 3'-0" A.F.F.	(1) PANE TEMPERED GLASS

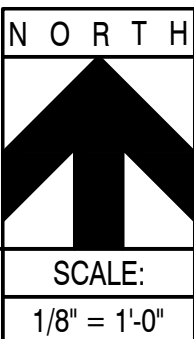
FIRST FLOOR EXTERIOR DOOR SCHEDULE							
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS
101	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS
102	FRONT DOOR	3'-0" X 6'-8"	40" X 80"		HOLLOW METAL	MTWS	
102a	STORAGE DR.	(2)3'-0" X 8'-0"	72" X 96"	X	HOLLOW METAL		

FIRST FLOOR INTERIOR DOOR SCHEDULE					
No.	TYPE	W x H	MATER.	SILL	REMARKS
103	SINGLE DR.	3'-0"X6'-8"	WOOD	-	-
104	SINGLE DR.	2'-8"X6'-8"	WOOD	-	LOUVERED AT A/C CLOSET
105	SINGLE DR.	2'-6"X6'-8"	WOOD	-	-
106	DOUBLE DR.	(2)3'-0"X6'-8"	WOOD	-	-
107	BI-FOLD DR.	(2)3'-0"X6'-8"	WOOD	-	-
108	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-

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



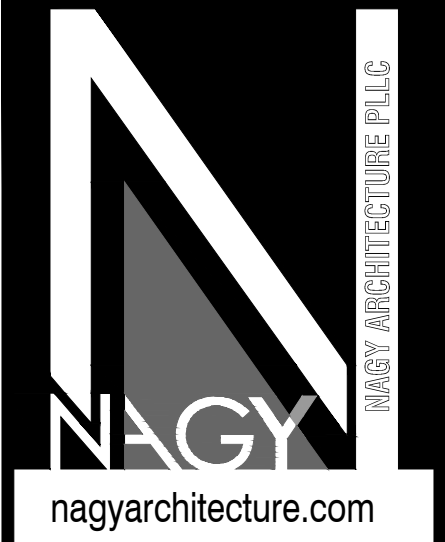
OVERALL FIRST FLOOR PLAN



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

1

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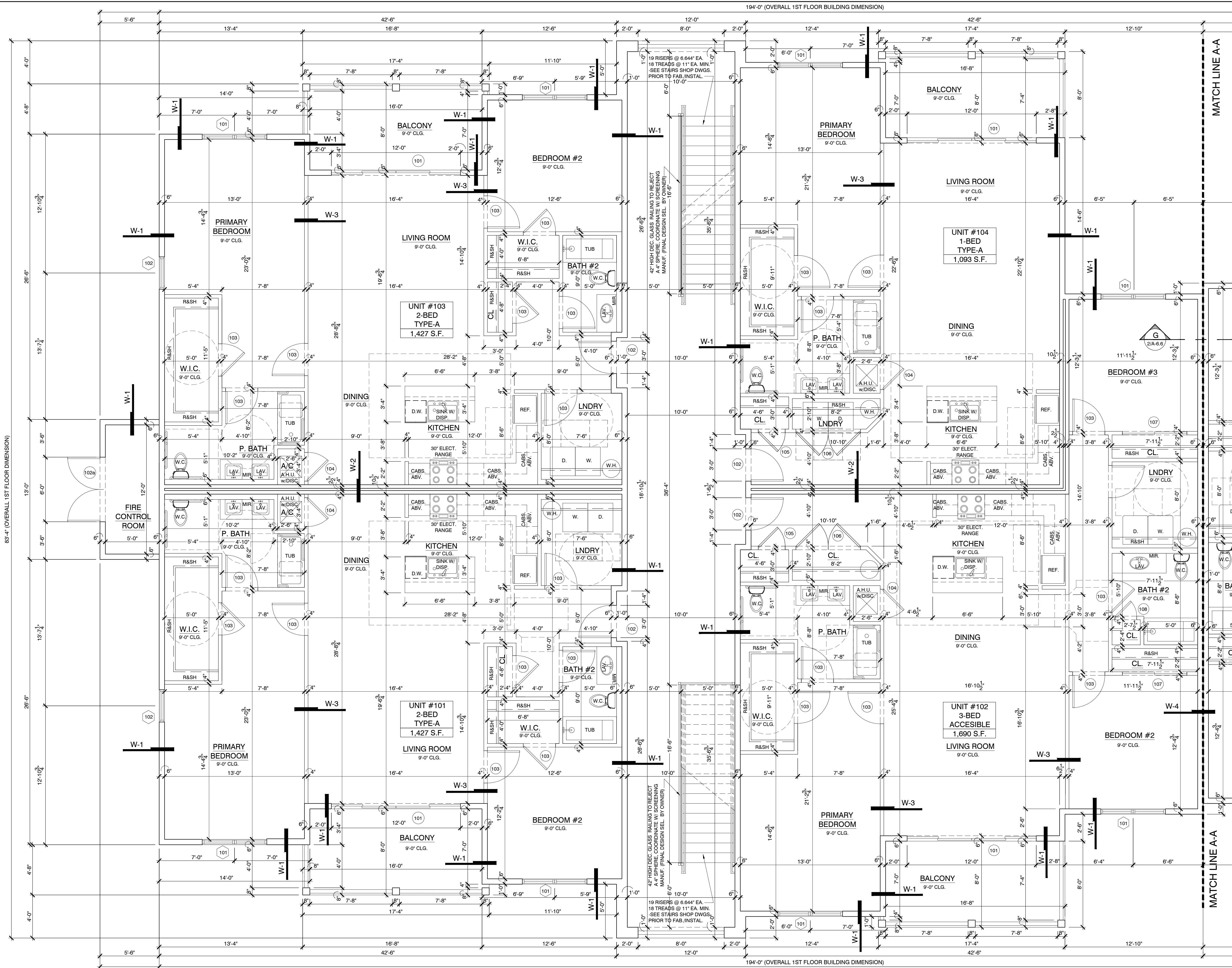
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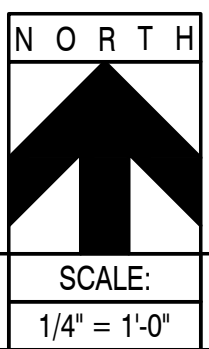
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SEE A-1.2



PARTIAL FIRST FLOOR PLAN

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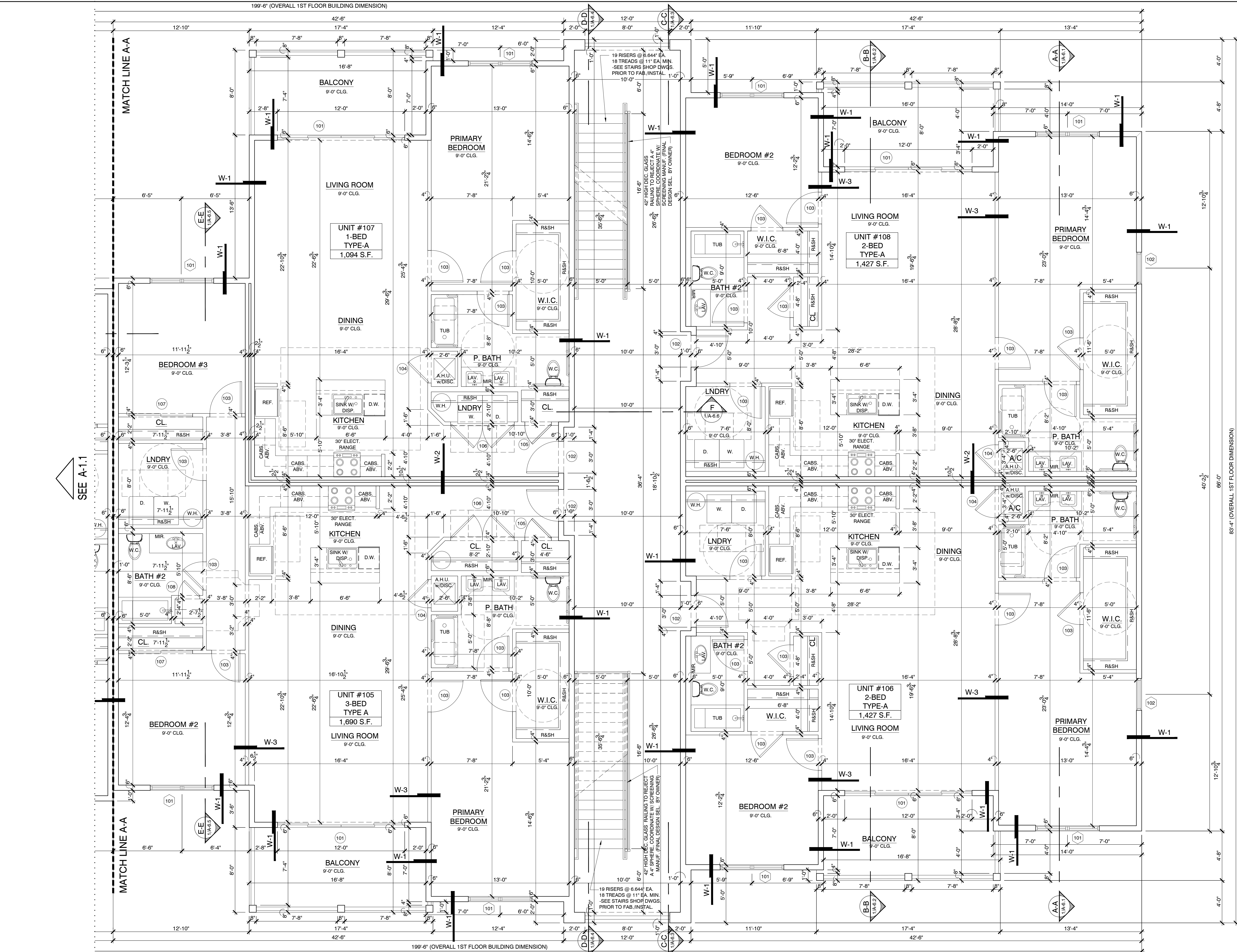
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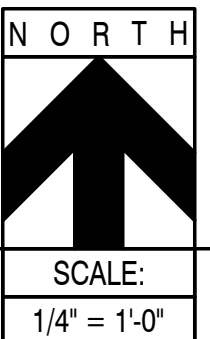
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PROJECT:

The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
PARTIAL FIRST FLOOR PLAN.
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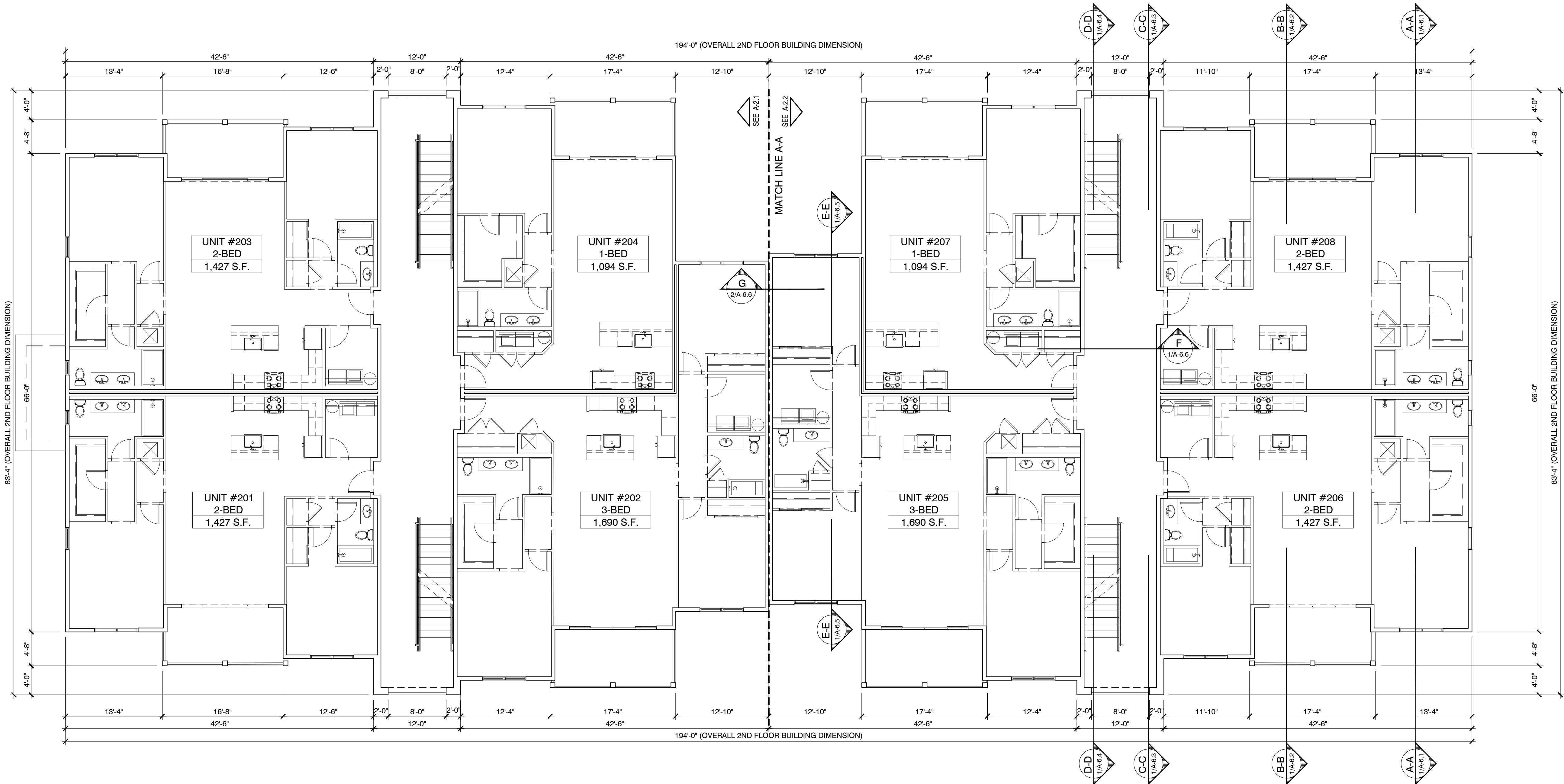
SHEET #:
A-1.2

SECOND FLOOR WINDOW SCHEDULE								
No.	TYPE	W x H	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"	O	VINYL/GLS.	@ 6'-0" A.F.F.	(1) PANE TEMPERED GLASS	

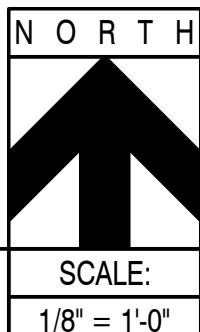
SECOND FLOOR EXTERIOR DOOR SCHEDULE								
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS
201	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
202	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	X	HOLLOW METAL	MTWS		EGRESS

SECOND FLOOR INTERIOR DOOR SCHEDULE					
No.	TYPE	W x H	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 UNITS' AREA	TOTAL UNITS' AREA	COMMON AREA	TOTAL FLR. GROSS AREA
201	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	6,170 S.F.	749.5 S.F.	14,124 S.F.
202	3	-	1,690 S.F.	134 S.F.	1,824 S.F.			
203	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			
204	1	-	1,094 S.F.	134 S.F.	1,228 S.F.	6,170 S.F.	749.5 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.			
207	1	-	1,094 S.F.	134 S.F.	1,228 S.F.			
208	2	-	1,427 S.F.	132 S.F.	1,559 S.F.			



OVERALL SECOND FLOOR PLAN



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SIGNATURE:

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

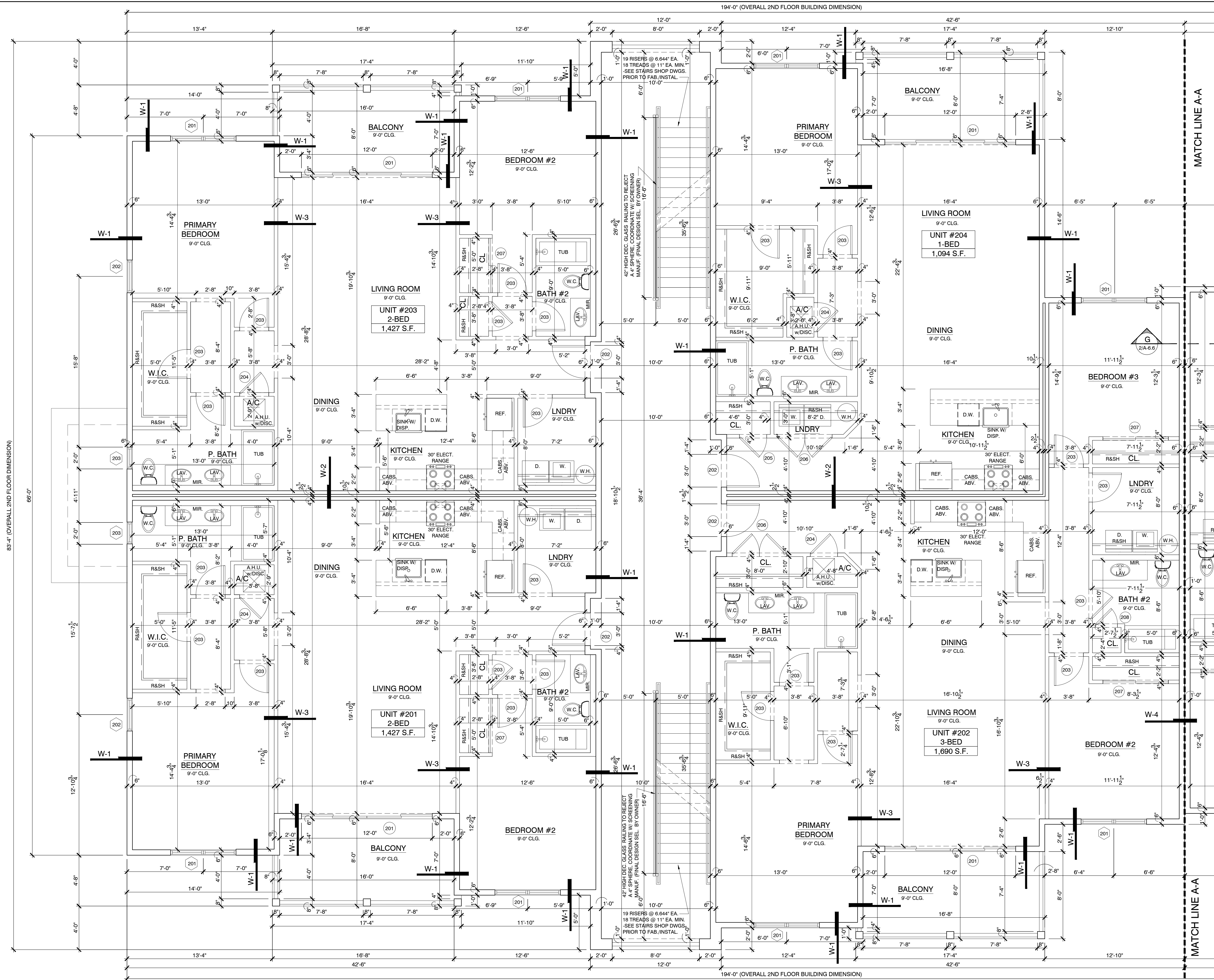
PROJECT:
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Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

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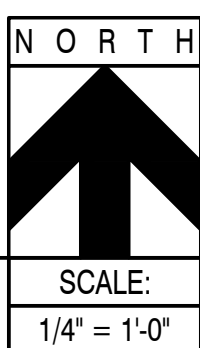
DWG INFO:
ISSUE DATE: 05/02/25
PROJECT #: 22105
DRAWN BY: GAN, LBN
CHECKED BY: GAN

DWG DESCRIPTION:
OVERALL 2ND FLOOR PLAN.
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A-2.0



SEE A-2.2



PARTIAL SECOND FLOOR PLAN

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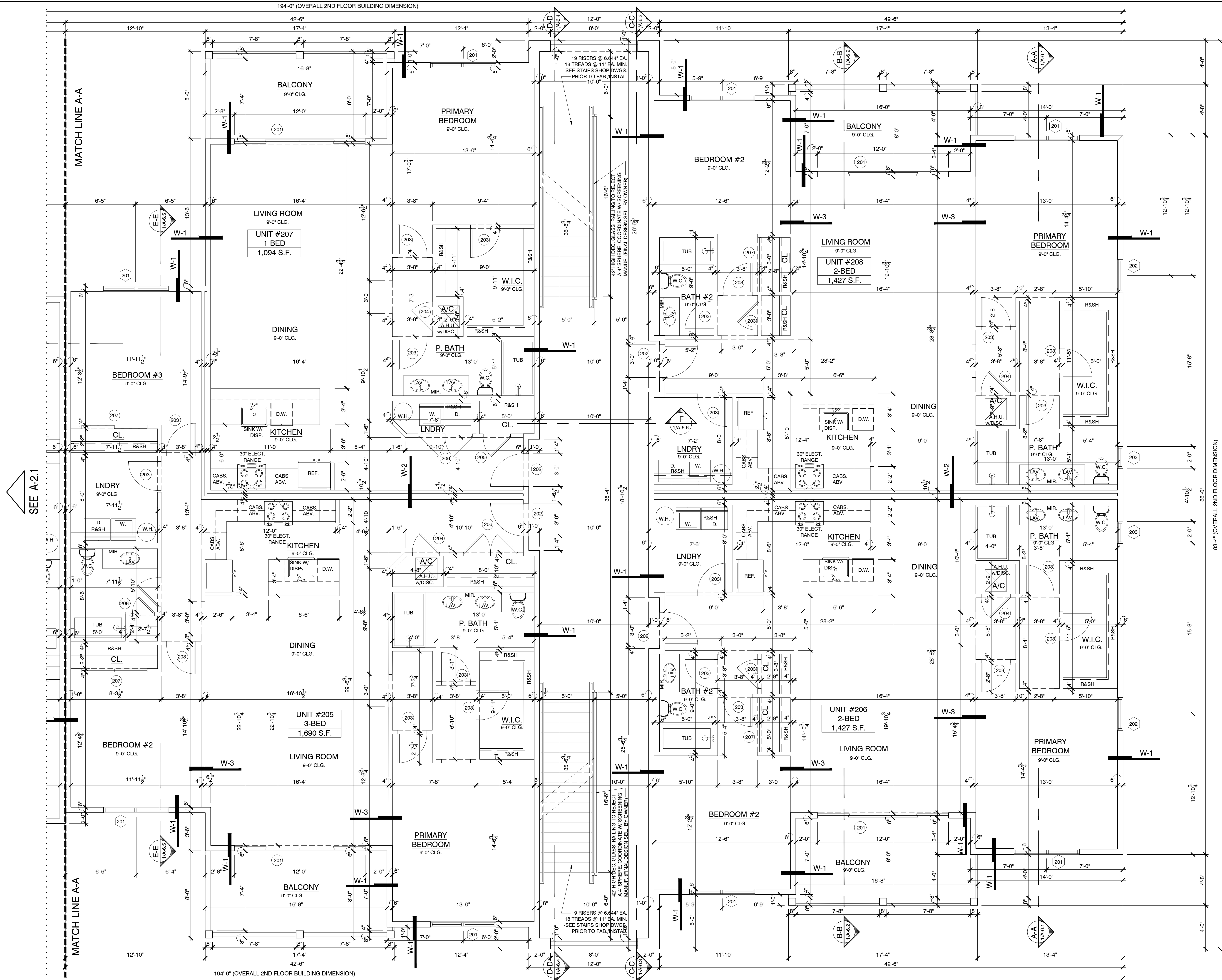
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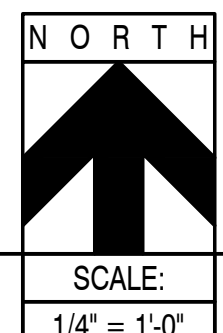
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PARTIAL SECOND FLOOR PLAN





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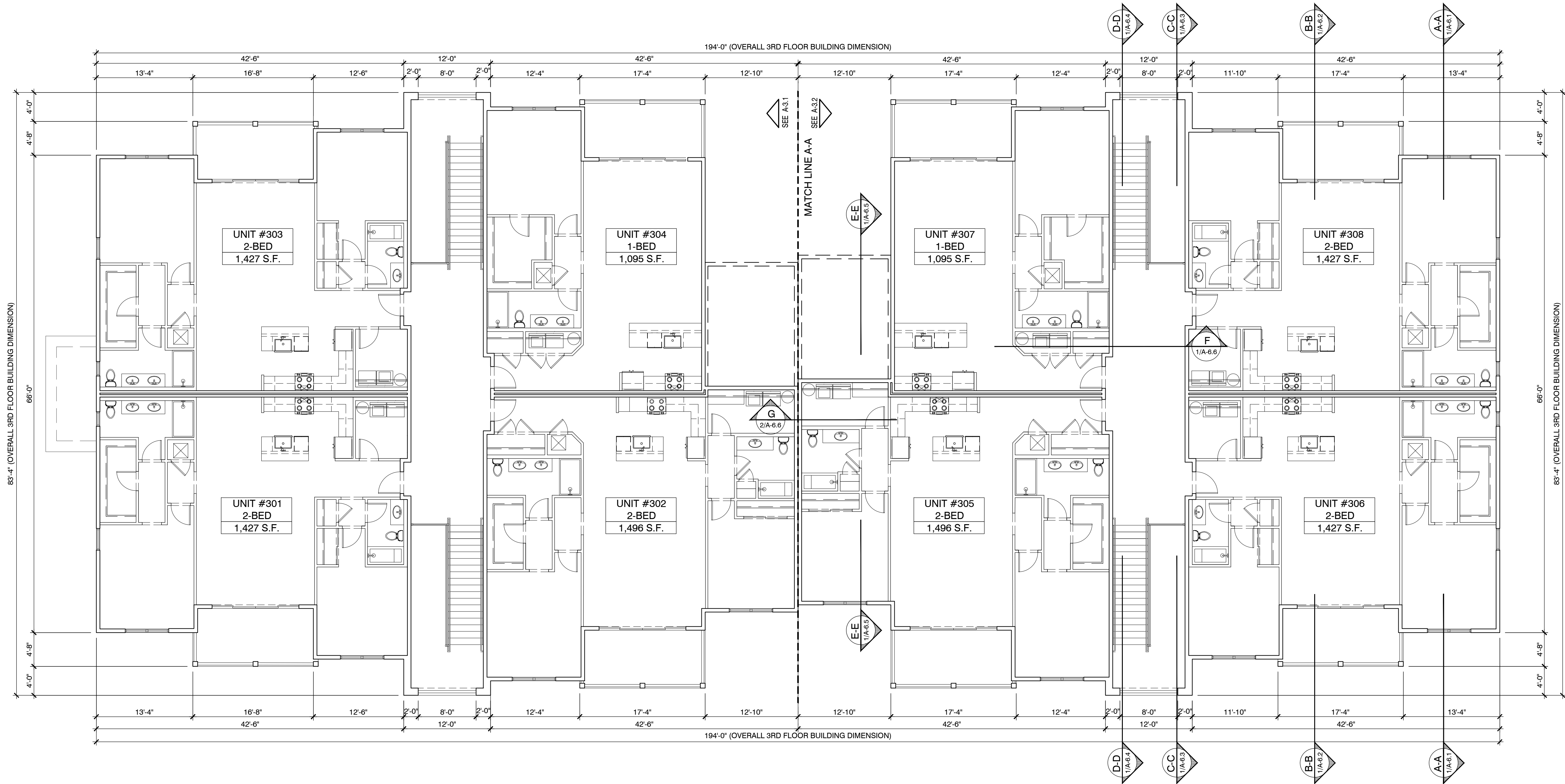
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A-2.2

THIRD FLOOR WINDOW SCHEDULE								
No.	TYPE	W x H	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"	O	VINYL/GLS.	@ 6'-0" A.F.F.	(1) PANE TEMPERED GLASS	

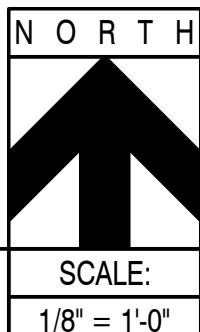
THIRD FLOOR EXTERIOR DOOR SCHEDULE								
No.	TYPE	Wx H	R. O. W. x H.	OPER.	MATER.	SILL	REMARKS	EGRESS
301	SLDG. GLS. DOOR	12'-0" X 8'-0"	144" X 96"	XXXX	VINYL/GLS.	MTWS	TEMP. GLASS	EGRESS
302	FRONT DOOR	3'-0" X 6'-8"	40" X 80"	X	HOLLOW METAL	MTWS		EGRESS

THIRD FLOOR INTERIOR DOOR SCHEDULE					
No.	TYPE	W x H	MATER.	SILL	REMARKS
303	SINGLE DR.	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	BI-FOLD DR.	(2) 2'-8"X6'-8"	WOOD	-	-
308	SINGLE DR.	2'-0"X6'-8"	WOOD	-	-

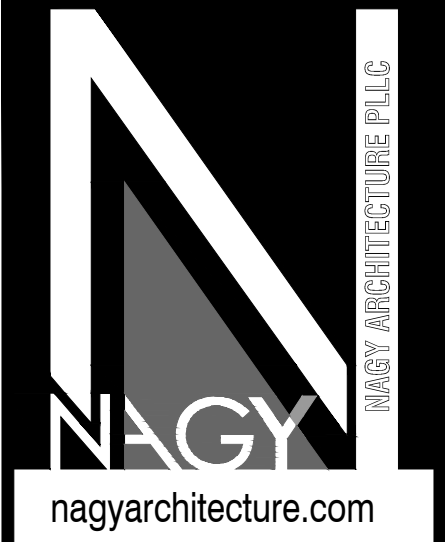
THIRD FLOOR AREA CALCULATION								
UNIT #	# OF BED.	TYPE	UNIT AREA	BALCONY AREA	TOTAL UNIT'S AREA	TOTAL UNIT'S AREA	COMMON AREA	TOTAL FLR. GROSS AREA
301	2	-	1,427 S.F.	132 S.F.	1,559 S.F.	5,977 S.F.	383 S.F.	12,717 S.F.
302	2	-	1,496 S.F.	134 S.F.	1,630 S.F.			
303	2	-	1,427 S.F.	132 S.F.	1,559 S.F.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



OVERALL THIRD FLOOR PLAN



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Luis Graef: President



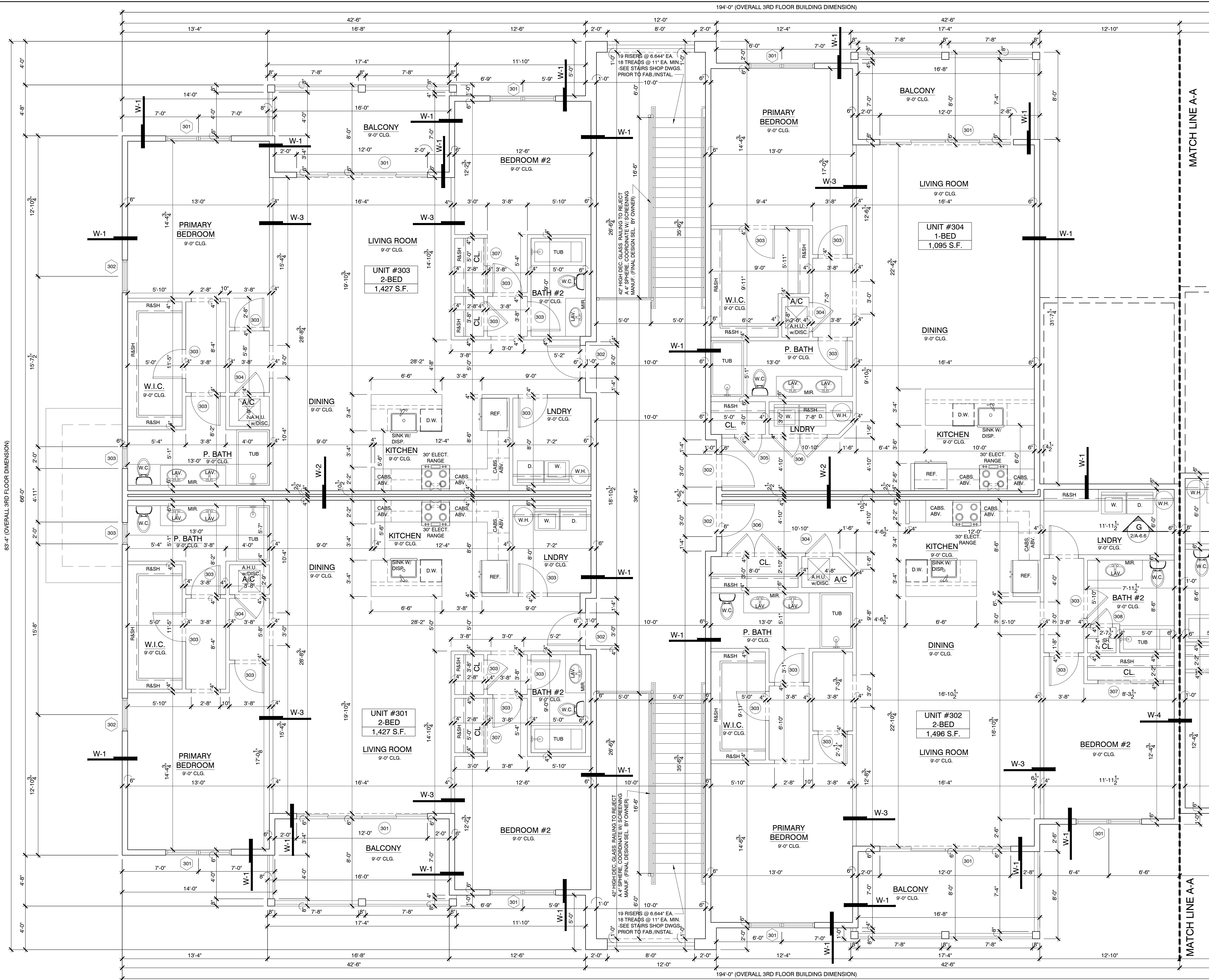
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#	REVISIONS	DATE

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DWG DESCRIPTION:
OVERALL 3RD FLOOR PLAN.
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SHEET #:
A-3.0



SEE A-32



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

PARTIAL THIRD FLOOR PLAN

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PROJECT:

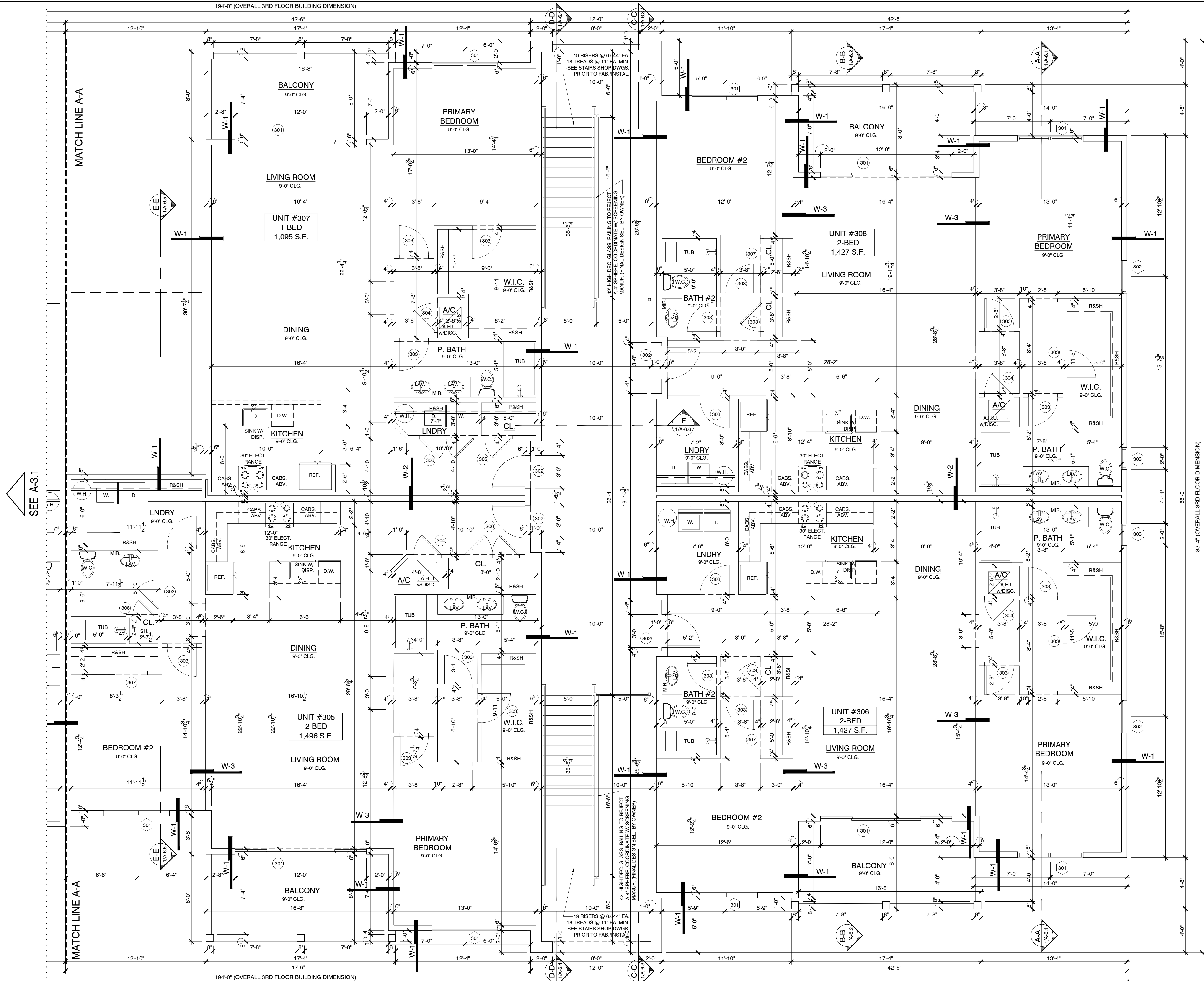
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A-3.1



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

PARTIAL THIRD FLOOR PLAN

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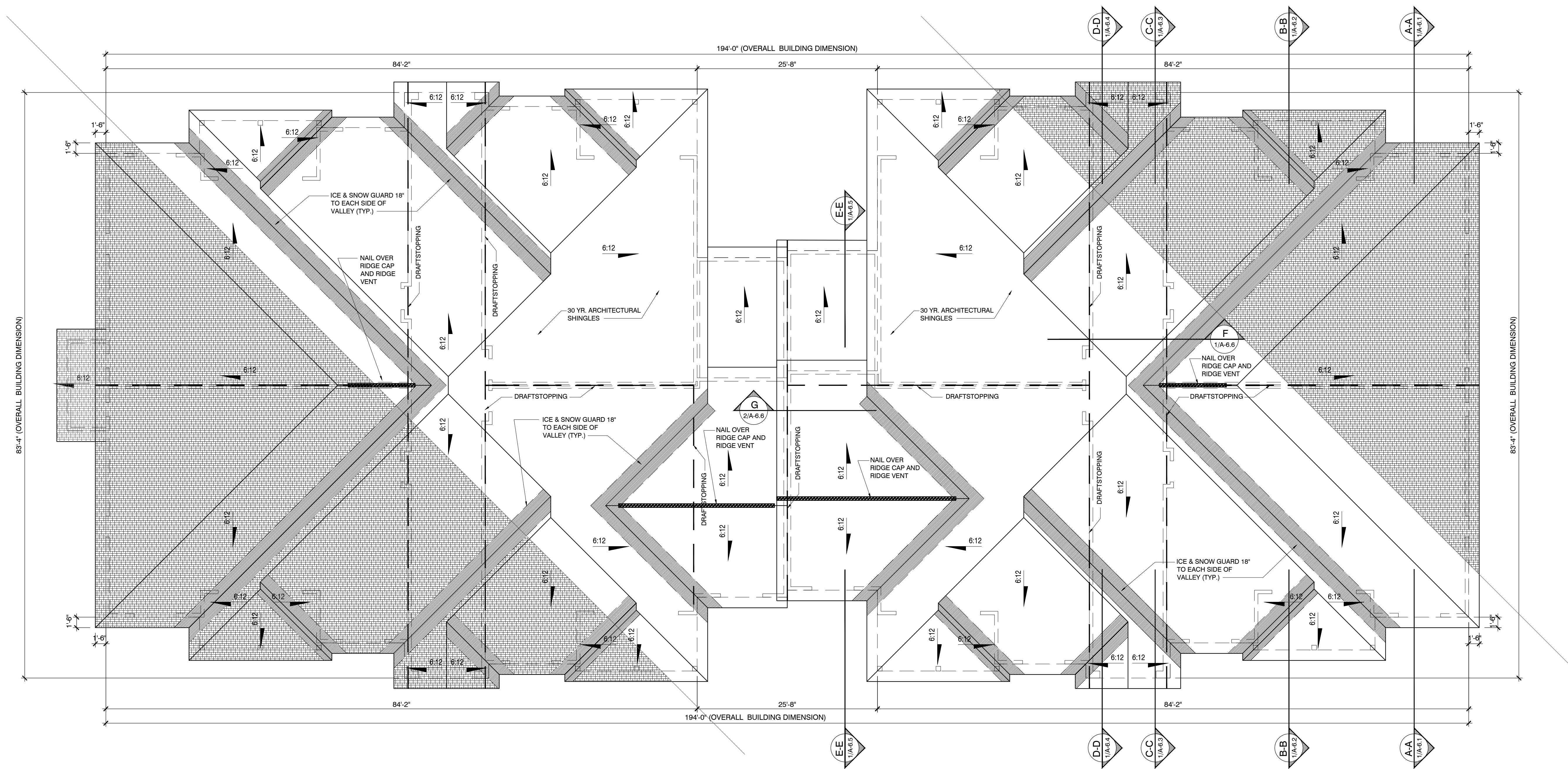
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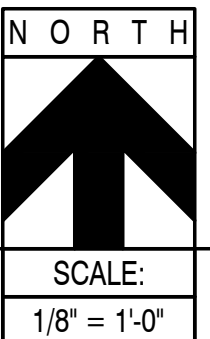
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A-3.2

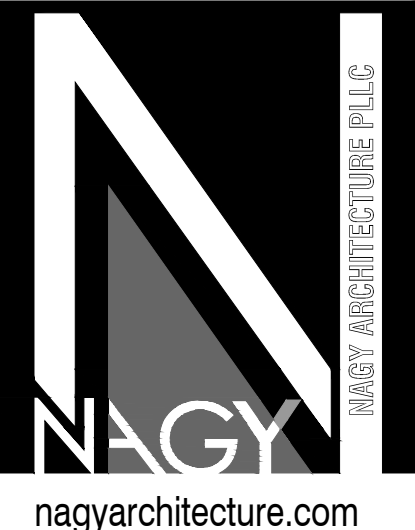


ROOF PLAN



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

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DWG DESCRIPTION:
ROOF PLAN.
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SHEET #:
A-4.0

EXTERIOR FINISHES

- 1

COMPOSITE LAP SIDING

- MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
 - CEDAR TEXTURE 70 SERIES LAP.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 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 FT WOOD COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 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.
- 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. VERIFY COLOR WITH OWNER.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHHA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT 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.
- 10

ROOFING

- 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.
- 13

Z' FLASHING

- 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

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED. (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 15

FRIEZE BOARD

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

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

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



PARTIAL FRONT ELEVATION

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

1

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SHEET #:
A-5.1

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 OWNER.
- G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.

2 COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
- CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE).
- INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.

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 COLUMNS.
- COLOR: PAINT WHITE TO MATCH WINDOW TRIMS

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.

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. VERIFY COLOR WITH OWNER.

8 COMPOSITE CLADDING

- MANUFACTURER - NICHIA BRICK SERIES.
- COLOR AND STYLE - PLYMOUTH BRICK.
- INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- G.C. SHALL SUBMIT 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.

10 ROOFING

- 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.
- BREEZEWAY INTERIOR - COMPOSITE PANEL SIDING (HIDDEN)

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: WHITE. VERIFY COLOR WITH OWNER.

13 "Z" FLASHING

- 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 EAVE SOFFIT (NOT SHOWN)

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

14b BREEZEWAY SOFFIT (NOT SHOWN)

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

15 FRIEZE BOARD

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

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

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



PARTIAL FRONT ELEVATION

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

1

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SIGNATURE:

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



PROJECT:
The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

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

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

SHEET #:
A-5.2

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 OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 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 COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 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 - 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.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHIA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT 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.
- 10

ROOFING

- 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 (7.89"))
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS (VERTICAL).
 - COLOR: LIGHT GREEN - VERIFY WITH OWNER.
- 13

2" FLASHING

- 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

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED. (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 15

FRIEZE BOARD

- LP SMARTSIDE 7.21" (640 SERIES)
 - CEDAR TEXTURE PANEL (38 SERIES)
 - COLOR: WHITE - VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

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

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.

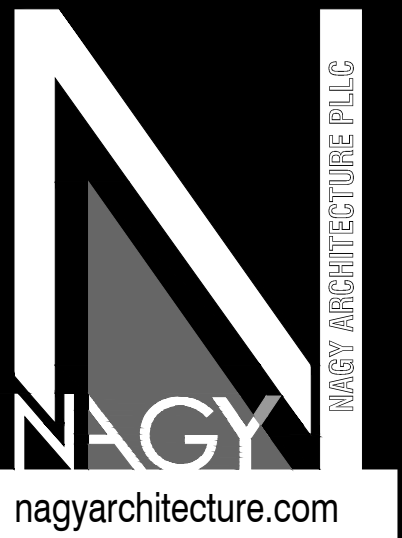


RIGHT SIDE ELEVATION

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

1

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SIGNATURE:

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



PROJECT:
The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
RIGHT SIDE ELEVATION
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

SHEET #:
A-5.3

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 OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 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 COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 6

FRONT AND REAR GABLES & ACCENT UPPER ENTRY WALLS

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE SHAKES 38 SERIES.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - 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.
 - 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. VERIFY COLOR WITH OWNER.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHHA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S 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.
- 10

ROOFING

- 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.
- 13

"Z" FLASHING

- 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

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED, (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY WITH OWNER.
 - INSTALLATION PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 15

FRIEZE BOARD

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

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

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

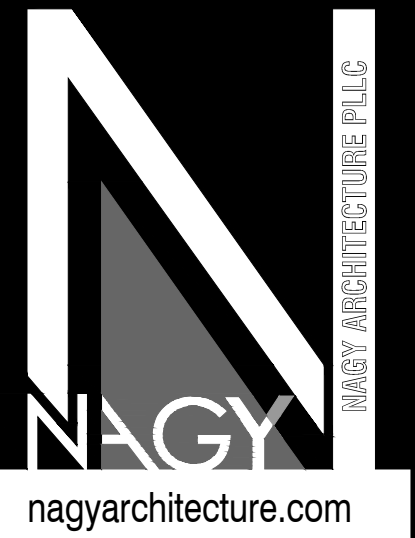


PARTIAL REAR ELEVATION

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

1

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CLIENT:
The Orchards at Naples Road, LLC
341 N main Street
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Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

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

DWG DESCRIPTION:
PARTIAL REAR ELEVATION
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

SHEET #:
A-5.4

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 OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 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 COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 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.
- 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. VERIFY COLOR WITH OWNER.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHHA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNER'S 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.
- 10

ROOFING

- 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.
- 13

Z" FLASHING

- 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

EAVE SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE PANEL VENTED SOFFIT.
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: WHITE. VERIFY COLOR WITH OWNER.
- 14b

BREEZEWAY SOFFIT (NOT SHOWN)

- LP SMARTSIDE (38 SERIES).
 - CEDAR TEXTURE NON VENTED, (76 SERIES).
 - INSTALL SOFFIT PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
- 15

FRIEZE BOARD

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

NOTE:

GUTTERS AND DOWNSPOUTS (NOT SHOWN FOR CLARITY)

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

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.

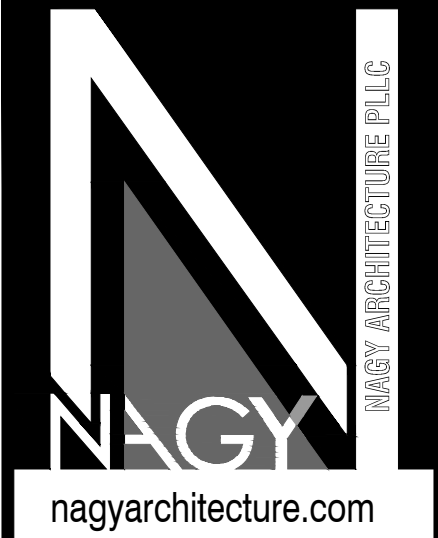


PARTIAL REAR ELEVATION

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

1

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Tel: 561-549-1986

SIGNATURE:

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



PROJECT:

The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
PARTIAL REAR ELEVATION
ISSUE FOR REVIEW ONLY NOT
ISSUE FOR BUILDING PERMIT.

SHEET #:

A-5.5

EXTERIOR FINISHES

- 1

COMPOSITE LAP SIDING

- MANUFACTURER - LP SMARTSIDE - VERIFY WITH OWNER.
 - CEDAR TEXTURE 78 SERIES LAP.
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: DARK GREEN (6192 COASTAL PLAIN). VERIFY COLOR WITH OWNER.
 - G.C. SHALL SUBMIT SAMPLES FOR OWNERS REVIEW AND APPROVAL PRIOR TO PLACING ORDER FOR THE MATERIAL.
- 2

COMPOSITE LAP PANEL SIDING

- MANUFACTURER - LP SMARTSIDE.
 - CEDAR TEXTURE PANEL SIDING (38 SERIES NO GROOVE)
 - INSTALL SIDING PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - COLOR: LIGHT GREEN (6191 CONTENTED). VERIFY COLOR WITH OWNER.
- 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 COLUMNS.
 - COLOR: PAINT WHITE TO MATCH WINDOW TRIMS
- 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 OWNERS 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 OWNERS 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. VERIFY COLOR WITH OWNER.
- 8

COMPOSITE CLADDING

- MANUFACTURER - NICHIA BRICK SERIES.
 - COLOR AND STYLE - PLYMOUTH BRICK.
 - INSTALL PER MFG. SPECIFICATIONS AND RECOMMENDATIONS.
 - G.C. SHALL SUBMIT 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.
- 10

ROOFING

- 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.
- 13

Z" FLASHING

- 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.
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- 14a

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- 14b

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- 15

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EXHAUST AND VENT HOODS

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



LEFT SIDE ELEVATION

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

1



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Tel: 561-549-1986

SIGNATURE:

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



PROJECT:

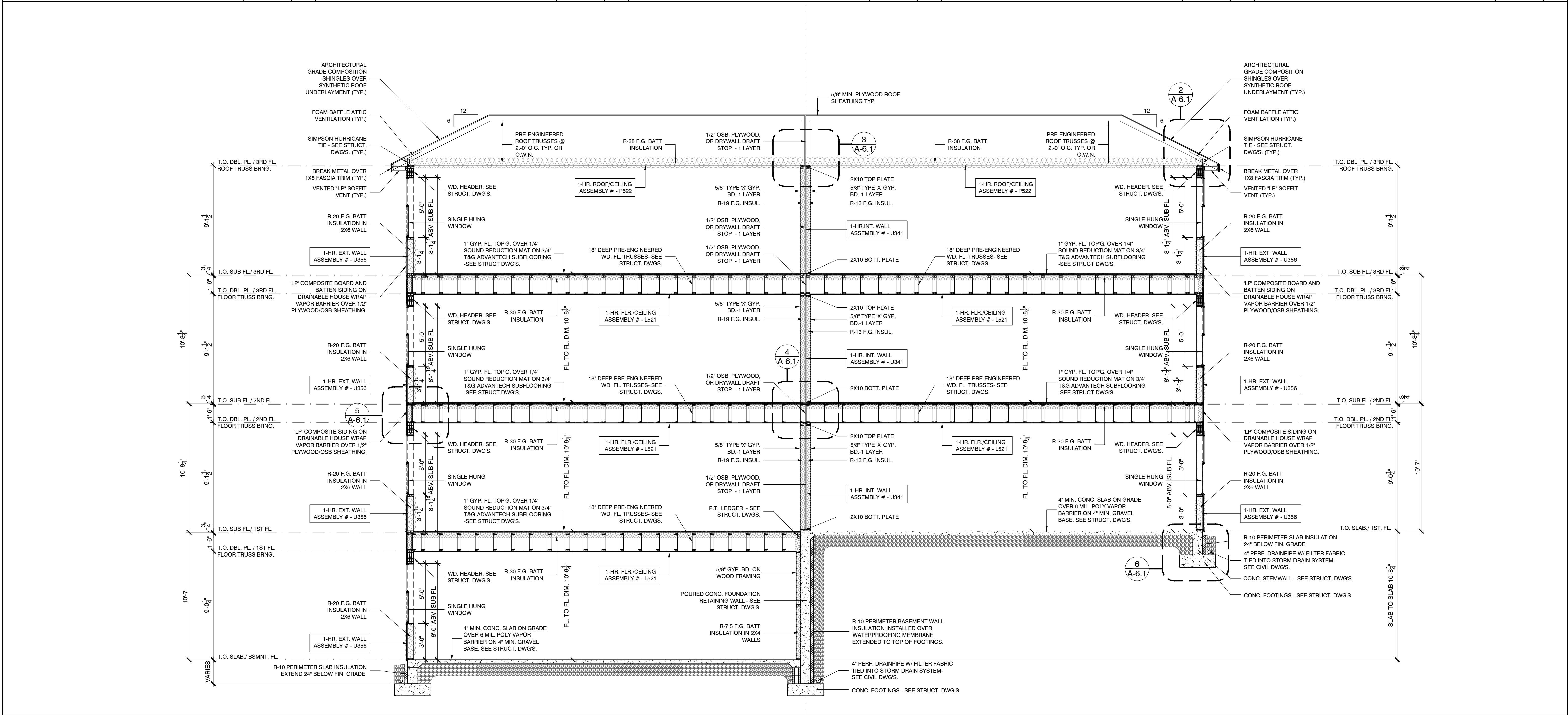
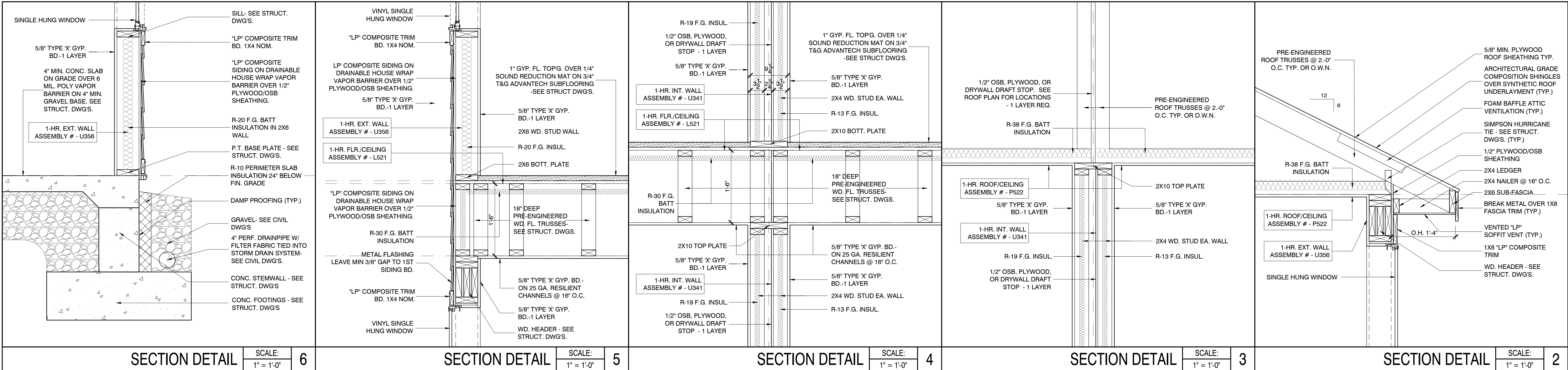
The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

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PROJECT #: 22105
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LEFT SIDE ELEVATION
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DWG DESCRIPTION:
BUILDING SECTION "A-A".
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A-6.1



BUILDING SECTION "B-B"	SCALE:	1
	1/4" = 1'-0"	



CLIENT:
The orchards at Naples Road, L
1 N main Street
Andersonville, NC 28792
is Graef: President



The Orchards at Naples Road
Apartment Complex
Building 7 - 28 units
Hendersonville, North Carolina

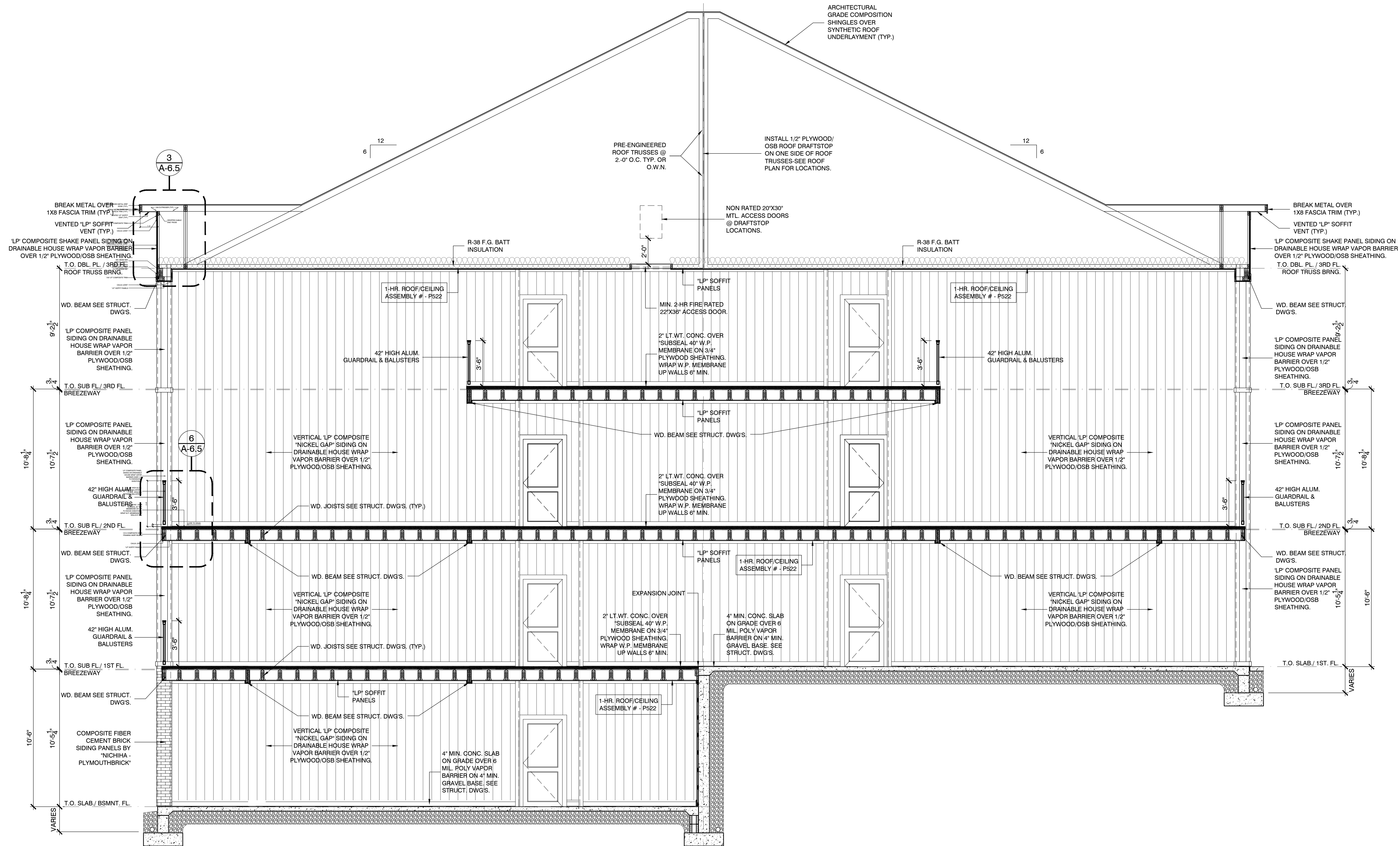
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 ISSUE DATE: 05/02/25
 PROJECT #: 22105
 DRAWN BY: GAN , LBN
 CHECKED BY: GAN

DWG DESCRIPTION :
BUILDING SECTION "C-C"
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BUILDING SECTION "D-D"

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

1



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PROJECT:

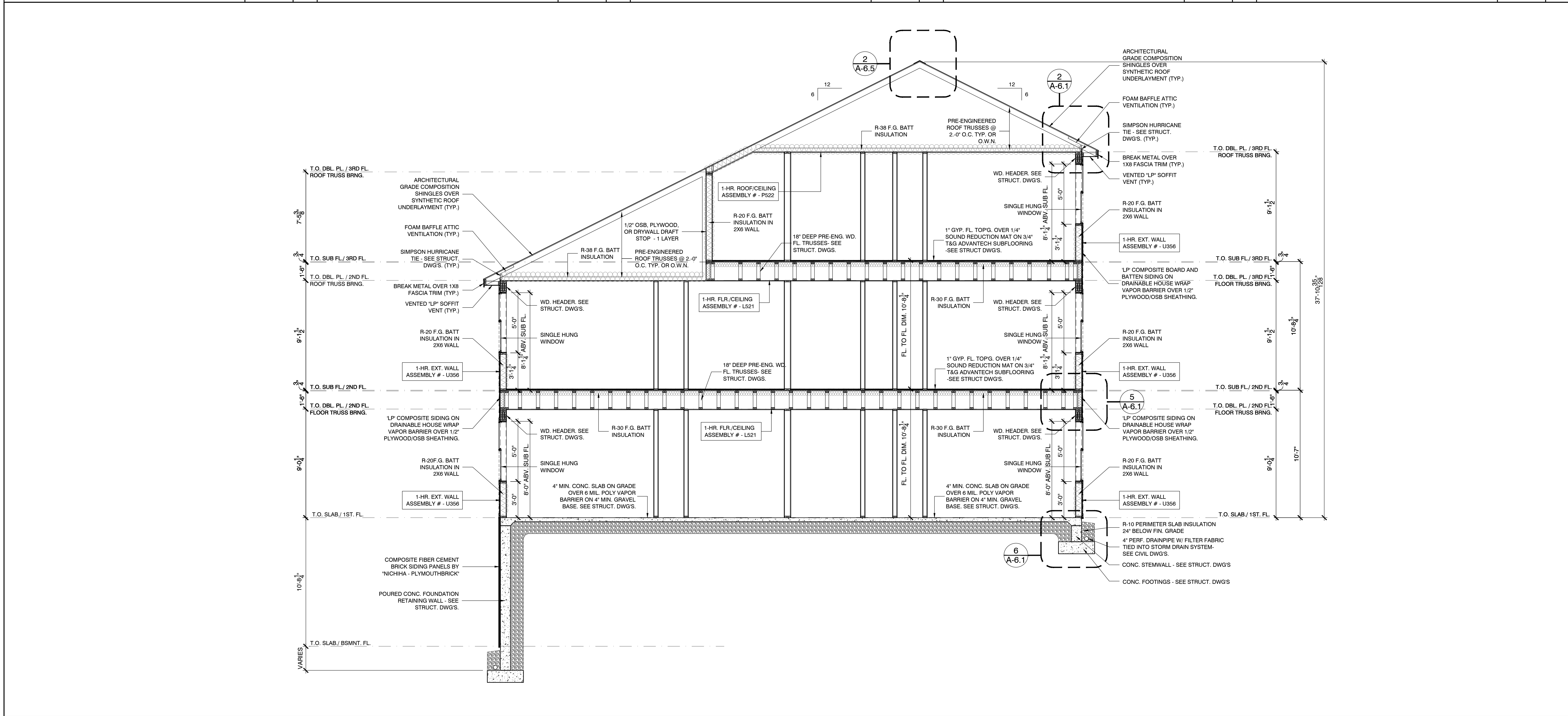
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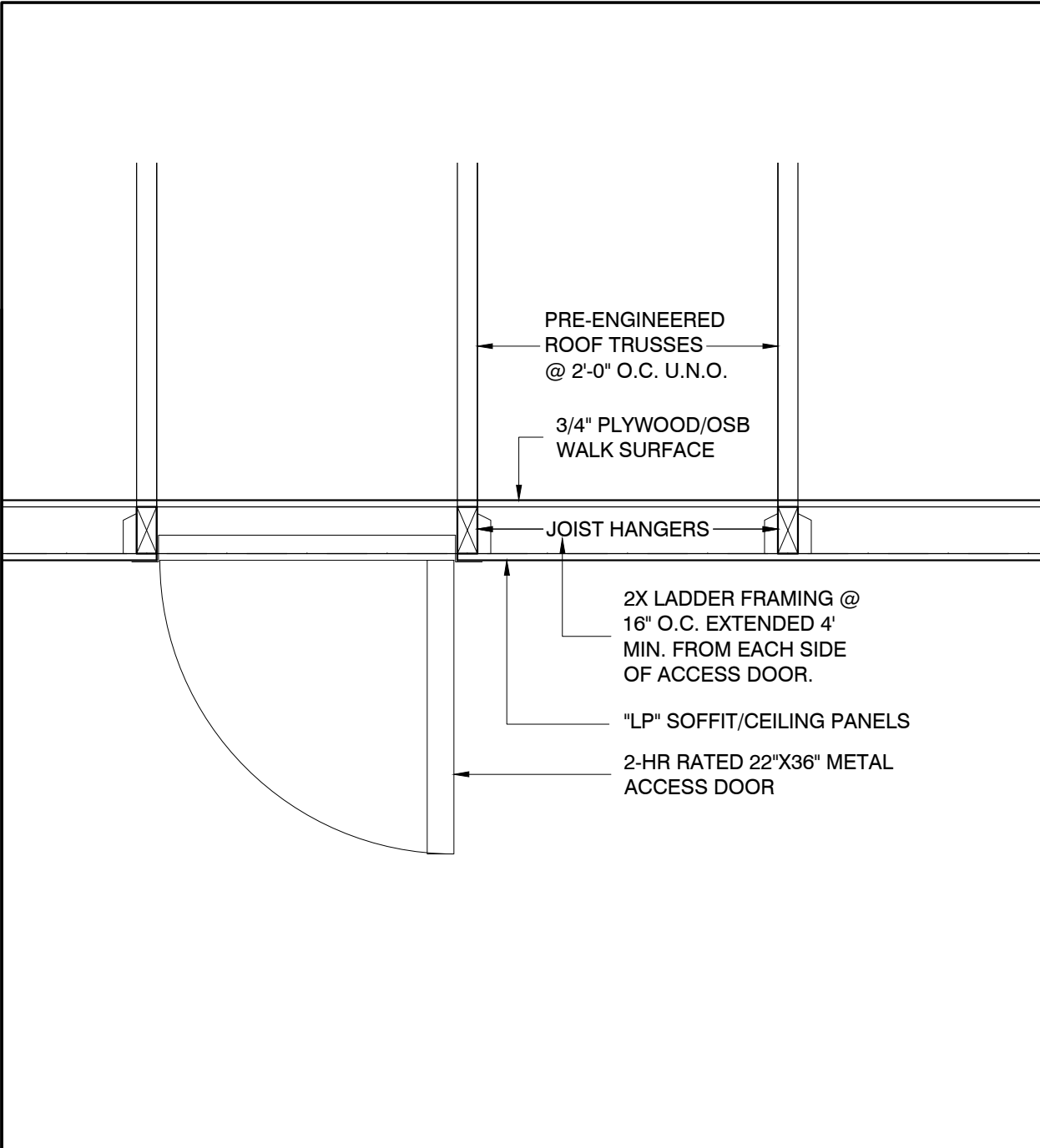
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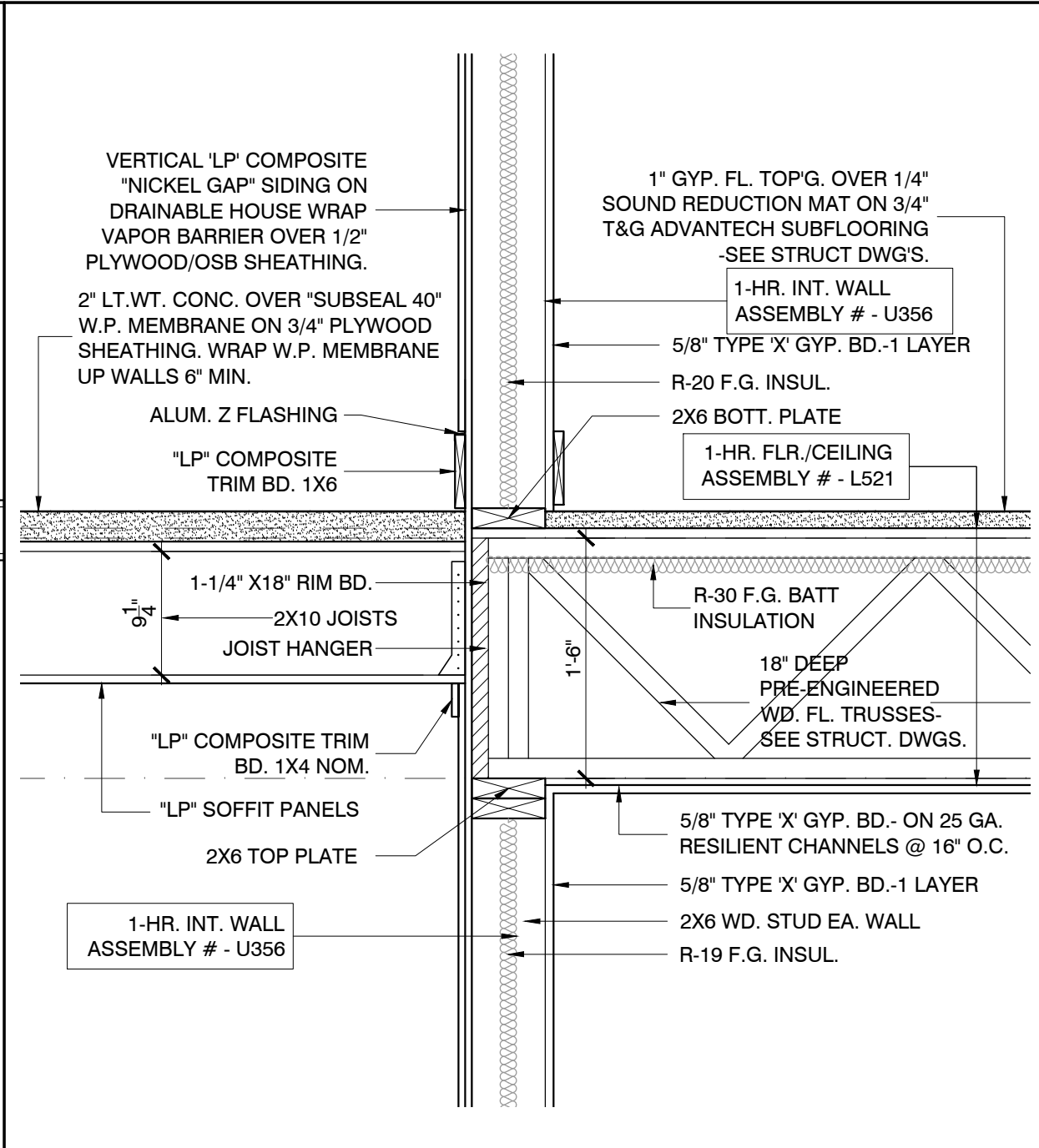
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SHEET #:
A-6.4

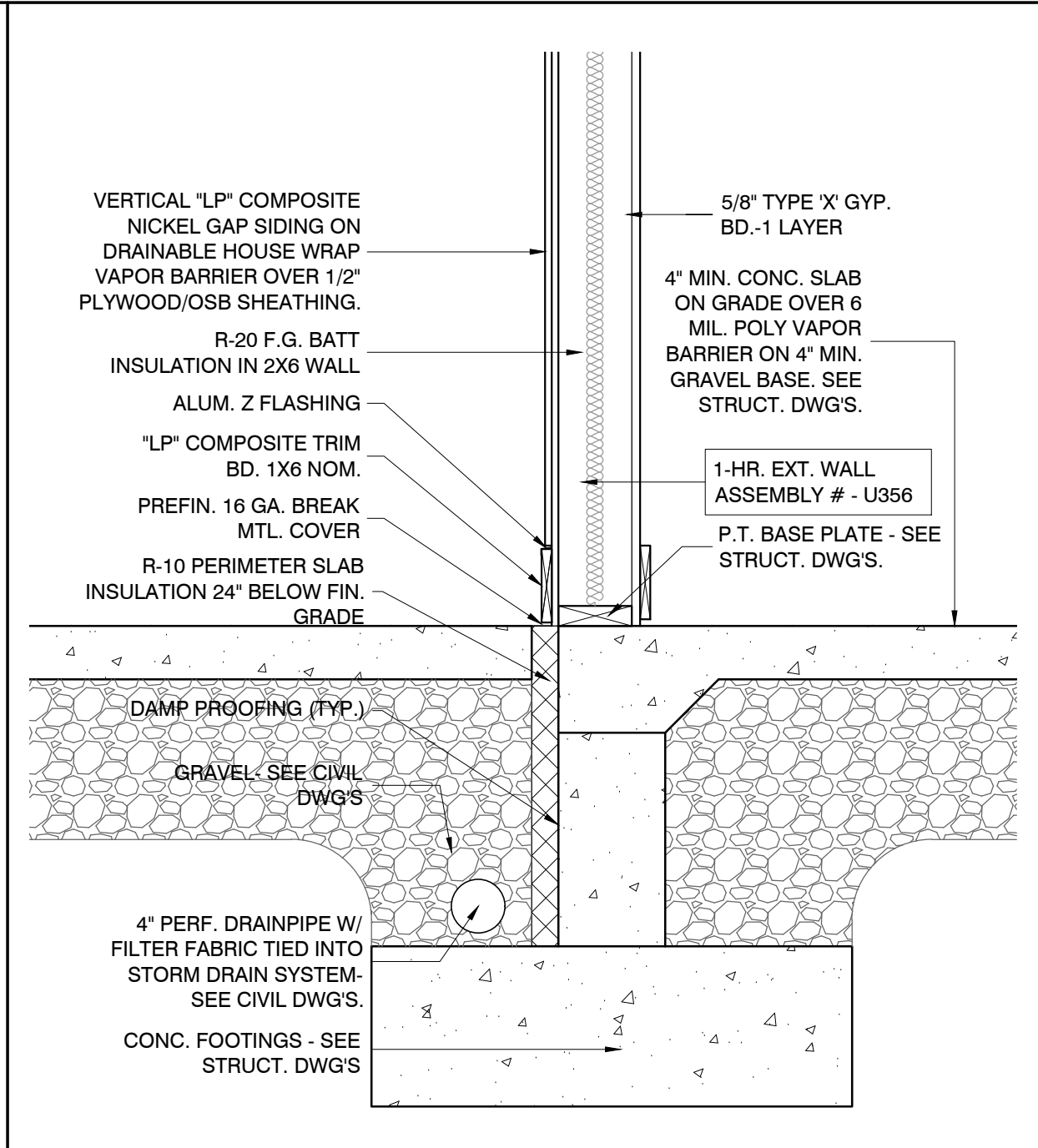




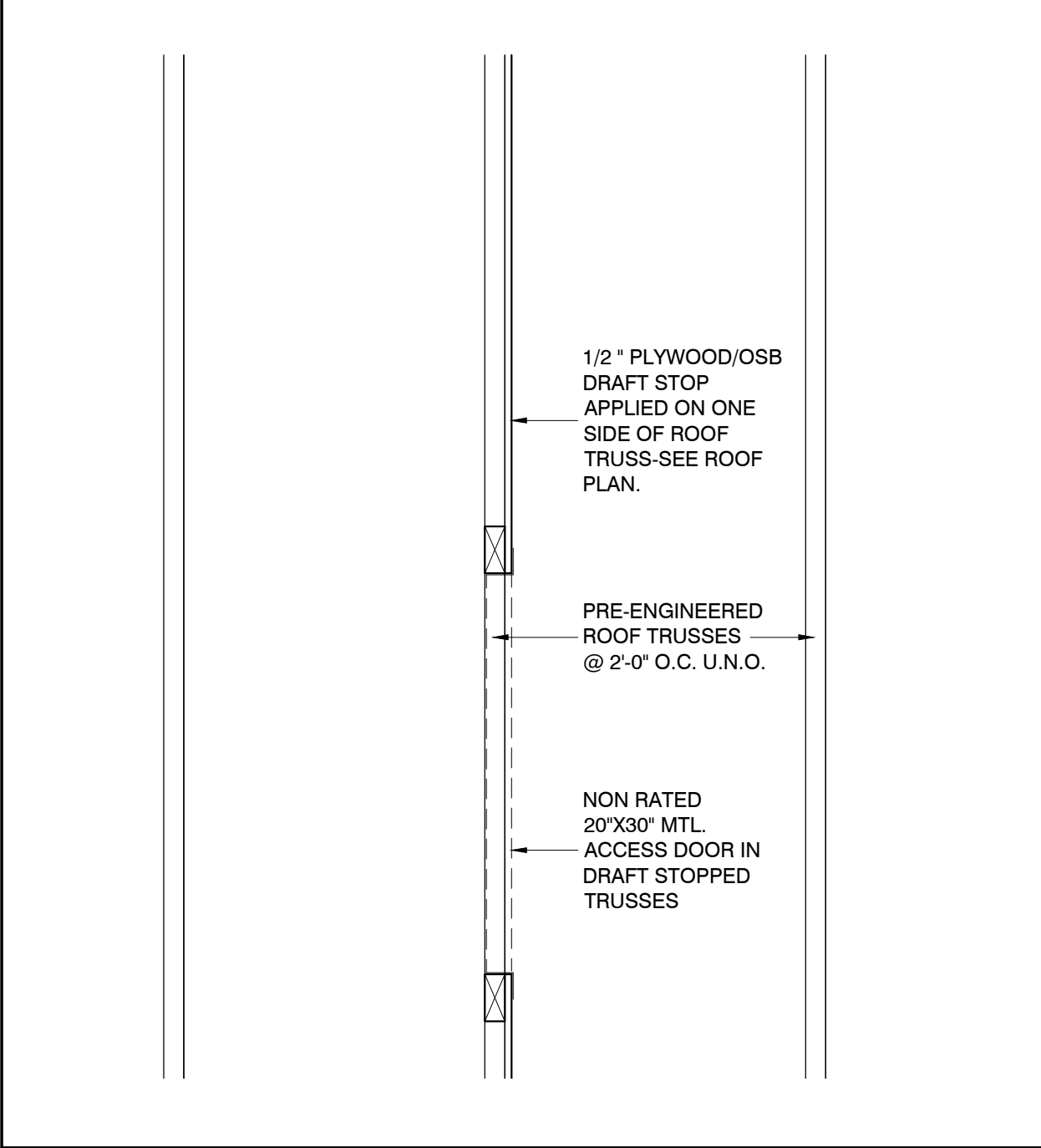
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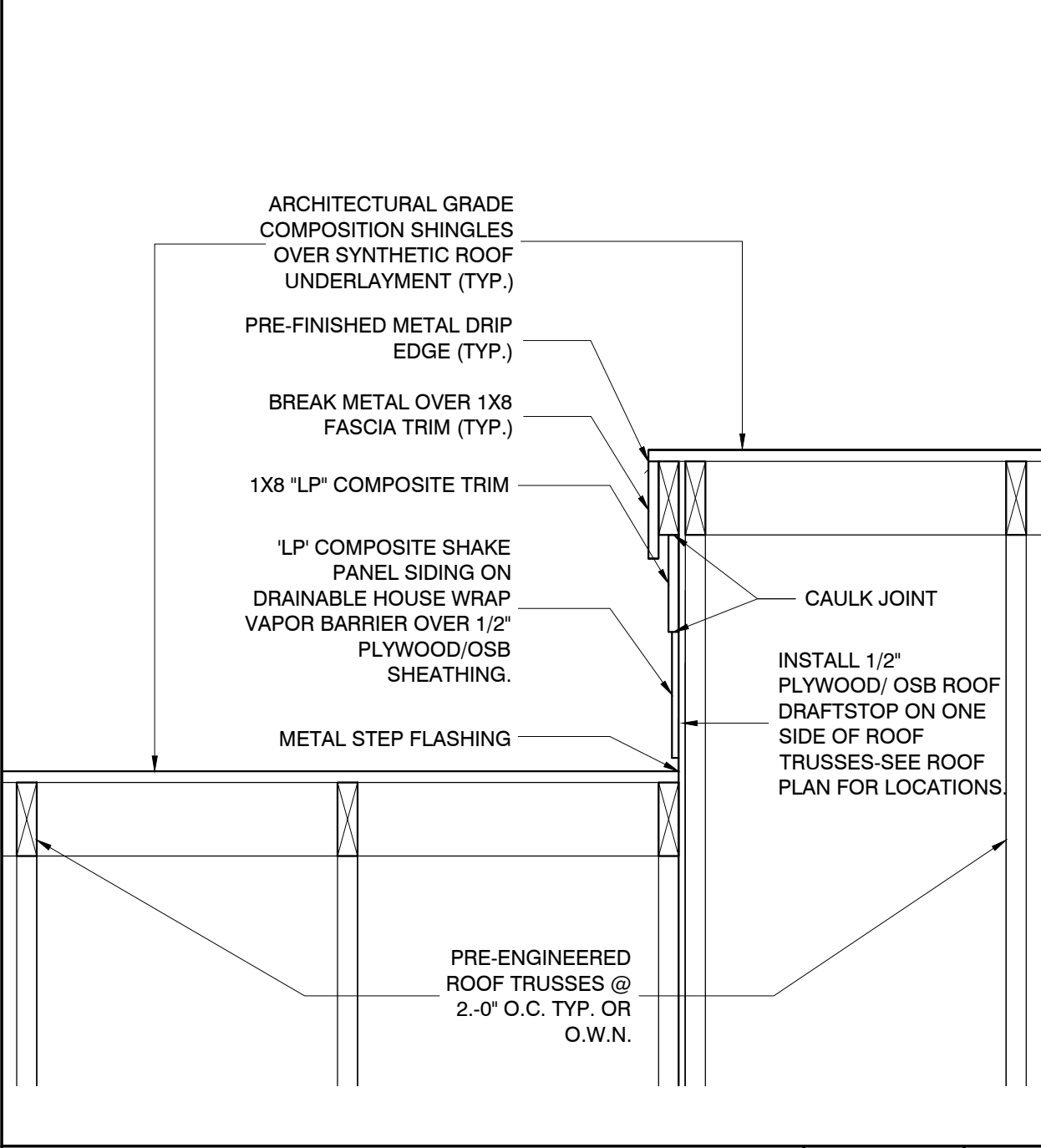
SECTION DETAIL SCALE: 1" = 1'-0" 4



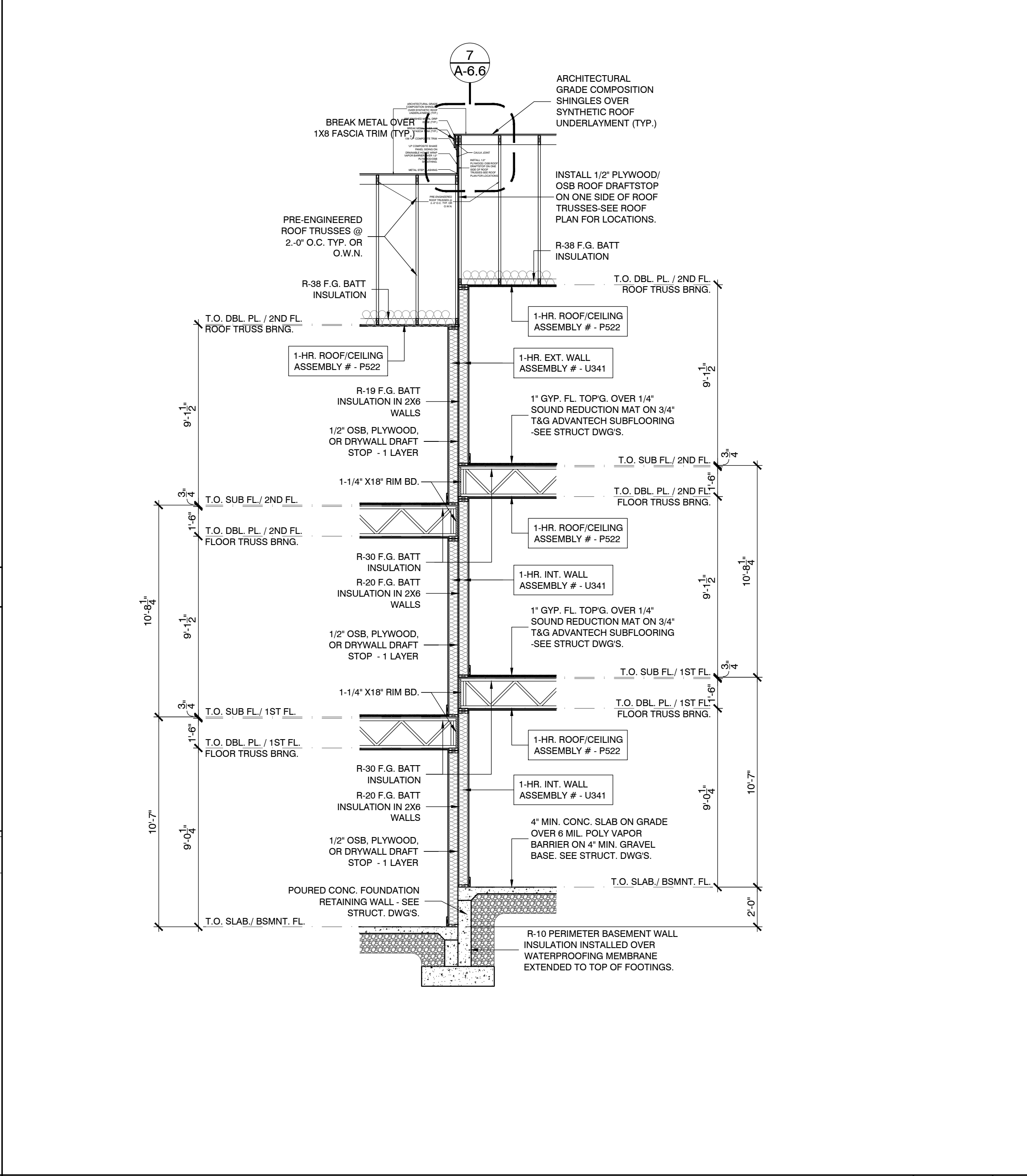
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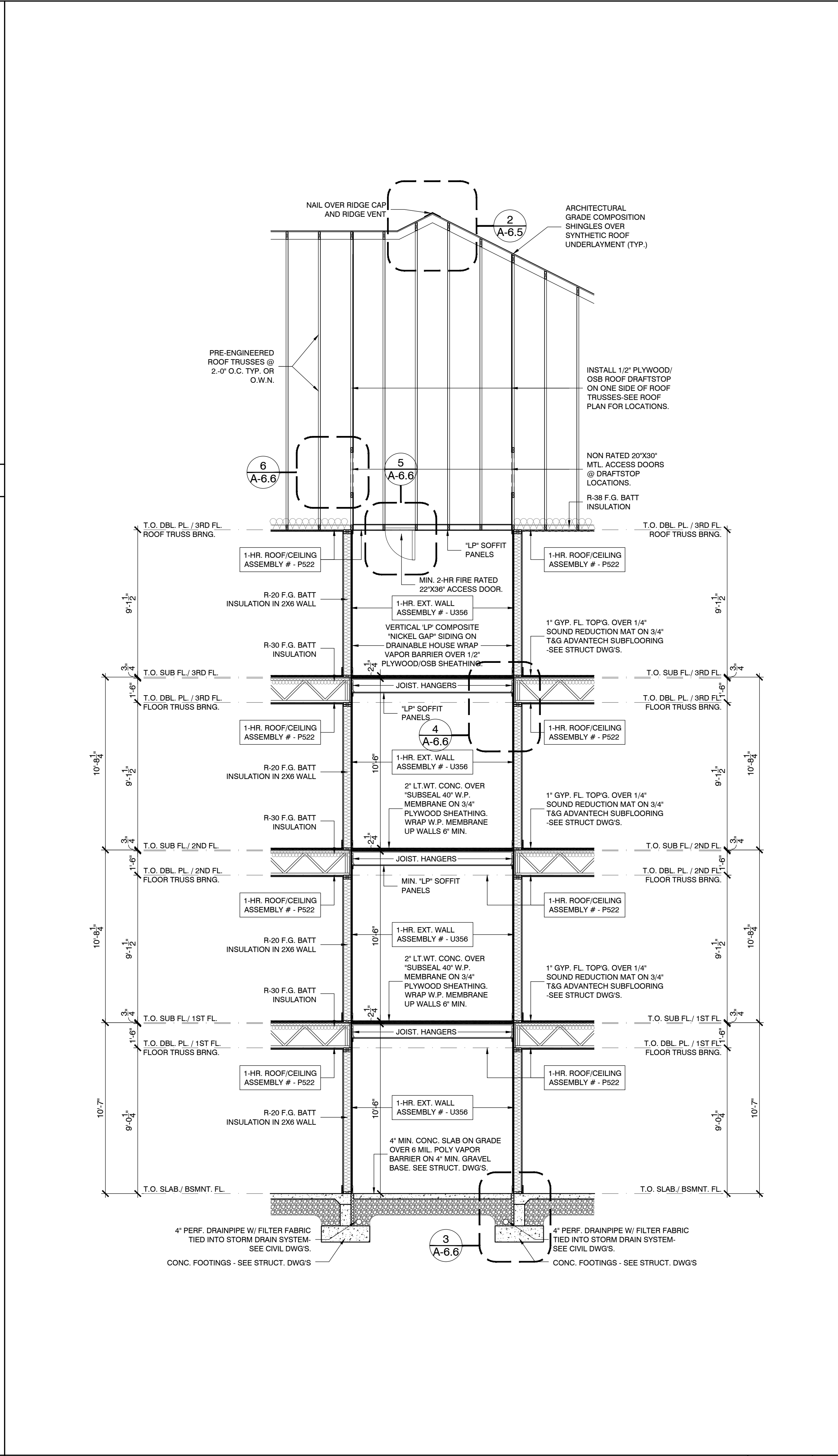
SECTION DETAIL SCALE: 1" = 1'-0" 6



SECTION DETAIL SCALE: 1" = 1'-0" 7



PARTIAL BUILDING SECTION "G" SCALE: 1/4" = 1'-0" 2



PARTIAL BUILDING SECTION "F" SCALE: 1/4" = 1'-0" 1

NAGY

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Luis Graef: President

Orchards

PROPERTIES

PROJECT:

The Orchards at Naples Road

Apartment Complex

Building 7 - 28 units

Hendersonville, North Carolina

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DWG INFO:

ISSUE DATE: 05/02/25

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DRAWN BY: GAN, LBN

CHECKED BY: GAN

DWG DESCRIPTION:

PARTIAL BLDG. SECTION F & G

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A-6.6

STRUCTURAL ABBREVIATIONS

ABBREV.	DEFINITION	ABBREV.	DEFINITION
A.B.	anchor bolts	HOF	horizontal outer face
ABV	above	HKR	hook
ADGNL	additional	HR	horizontal
AFF	above finished floor	IF	inner face
ALT	alternate	INT	interior
ARCH	architectural	IT	joint
B. BOT	bottom	J	K kips (1000 lbs)
B/xxx	bottom of xxx	L, LEN	length
BAL	balance	LAT	lateral
BB	bond beam	LBS	pounds
BCX	bottom chord extension	LE	left end
BL	flush ledge	LH	long leg horizontal
BLDG	building	LLO	long leg outstanding
BLW	below	LJV	long leg vertical
BM	beam	LONG	longitudinal
BRG	bearing	MAS	masonry
BRK	break	MKS	maximum
BTWN	between	MECH	mechanical
CLR	clear, control joint	MFR	manufacturer
CMU	conc. masonry unit	MIN	minimum
COL	column	MTL	metal
CONC	concrete	NOM	nominal
CONN	connection	OC, O/C	on center
CONST	construction	OF	outer face, opp. face
CONT	continuous	OPP	opposite hand
CTR	center	OPNG	opening
DBA	deformed bar anchor	PRC	precast
DET DTL	detailed	PL	plate
DM	dimension	RE	right end
DWGS	drawings	REF	Reference
DWL	dowel	REIN	reinforcement
EA	each	REQD	required
EE	each end	RET	retaining
EFF	each face	SOG	slab on grade
EF	effective	SLC	slab critical
EL ELEV	elevation	SCHED	schedule
EJC	edge of concrete	SECT	section
EOD	edge of slab	SL	slab
EOM	edge of masonry	SPA	spacing
EOS	edge of slab	STNFR	stiffener
EW	each side	STL	steel
EXIST	existing	SUPPL	supplier
EXP	expansion	T/xxx	top of xxx
EXT	exterior, extension	TCX	top chord extension
FK	Foot-Kips	THK	thick, thickness
FL, FLR	floor	TRAN	transverse
FOB	face of brick	TYP	typical
FOM	face of masonry	UNO	unless noted otherwise
FOS	face of stud	VERT	vertical
FP	full penetration	W	width, in field
FTG	foot, feet	WVF	welded wire fabric
GB	grade beam		
GEN	general		
HEF	horizontal each face		
HIF	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 RESPONSIBILITY AND SHALL NOT EXCEED THE SAFE LOAD... CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACKING IS IN PLACE.
- ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
- 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 CONTRACTORS 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 ENGINEERS REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEERS 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) YEAR OLD.
- 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:
A. CONCRETE MIX DESIGNS;
B. REINFORCING STEEL SHOP DRAWINGS INCLUDING ELEVATED SLABS.
C. PRE-MANUFACTURED WOOD SYSTEM TRUSSES 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 CONTRACTORS 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 LOSS.
- 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. THE 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 CONTRACTORS EXPENSE.
- 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 CONSTRUCTION.
- 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:

- THE PRIMARY DESIGN STANDARDS AND/OR CRITERIA INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
GENERAL: BLDG CODE (N.C.B.C. 2018, AS AMENDED, ASCE 7-10)
CONCRETE: ACI 318
MASONRY: ACI 530
STRUCTURAL STEEL: AISC 341
STEEL JOISTS / GIRDER: SJI
METAL DECK: SDI
COLD-FORMED METAL: NAS
 - DESIGN GRAVITY SUPER IMPOSED DEAD LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS (SELF WEIGHT OF STRUCTURE IS NOT INCLUDED):
ROOF: 20 PSF MAX. 10 PSF MIN.
FLOORS - TYPICAL: 15 PSF
PARTITION ALLOWANCE: 0 PSF
 - DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:
SLAB ON GRADE: 200 PSF
ROOF, TYPICAL: 20 PSF MIN.
STAIRS: 100 PSF
APARTMENT/CORRIDOR: 40 PSF
BALCONY: 60 PSF
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 II
REINFORCING STEEL SHOP DRAWINGS B 9
C. PRE-MANUFACTURED WOOD SYSTEM TRUSSES SHOP DRAWINGS WITH CALCULATIONS. 50.3ft.
OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
INTERNAL PRESSURE COEFFICIENT "GcP" +/- 0.18
- COMPONENTS & CLADDING PRESSURES (PSF):
- | | ZONE | A ≤ 10 | A = 50 | A = 100 |
|-------|---------------|--------|--------|---------|
| WALLS | ZONE 4 (-) | -29.9 | -27.0 | -25.8 |
| | 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 |
| | ALL ZONES (+) | +16.0 | +16.0 | +16.0 |
- NOTES:
* CORNER & EDGE ZONES SHALL EXTEND 10'-0" FROM BUILDING EDGES.
** - INDICATES POSITIVE AND + INDICATES NEGATIVE PRESSURE (SUCTION).
- NET ROOF SUCTION 12 PSF

- WING MAIN WIND FORCE RESISTING SYSTEM
- | | NORTHSOUTH LIGHT FRAME SHEAR WALLS 148 KIPS | EAST/WEST LIGHT FRAME SHEAR WALLS 55 KIPS |
|--|---|---|
|--|---|---|
- WIND BASE SHEAR "Go"
- SEISMIC LOADS PER N.C.B.C. 2018: SITE CLASS: SHORT PERIOD DESIGN SPECTRAL RESPONSE "S_{ss}" SECOND PERIOD DESIGN SPECTRAL RESPONSE "S₀₁" SEISMIC USE GROUP IMPORTANCE FACTOR "I_p" SEISMIC DESIGN CATEGORY
- WING SEISMIC FORCE RESISTING SYSTEM
- | | NORTHSOUTH LIGHT FRAME SHEAR WALLS 68 KIPS | EAST/WEST LIGHT FRAME SHEAR WALLS 68 KIPS |
|--|--|---|
|--|--|---|
- SEISMIC BASE SHEAR "Go"
- DESIGN SNOW LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS: DRIFTING SNOW LOADS PER ASCE 7-10: NONE WHERE "Pg" IS LESS THAN 10 PSF
50 YEAR GROUND SNOW LOAD "Pg" 15 PSF
EXPOSURE FACTOR "Ce" 1.0
THERMAL FACTOR "Ct" 1.0
IMPORTANCE CATEGORY CLASSIFICATION II 1.0
IMPORTANCE FACTOR "Is" 1.0
NET FLAT ROOF SNOW LOAD "Pf" 10.5 PSF
 - 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:
A. SECTION 403.1:
PROPOSED ALTERATION SHALL BE SUCH 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.
C. 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.
D. 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.
E. SECTION 403.7:
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 FABRICATION.
- 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 CONTRACTORS 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.
- ALL SHOP DRAWINGS AND CALCULATIONS FOR DELEGATED DESIGN REQUIRING AN ENGINEER'S SEAL SHALL BE SEALED WITH THE SUBMISSION FOR REVIEW. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE DELEGATED ENGINEERS SEAL, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED, NO EXCEPTIONS.
- 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 RECORDS' (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) YEAR OLD.
- AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
A. CONCRETE MIX DESIGNS;
B. REINFORCING STEEL SHOP DRAWINGS
C. PRE-MANUFACTURED WOOD SYSTEM TRUSSES SHOP DRAWINGS WITH CALCULATIONS. OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
B' CLOUDS MARKED IN MANNER WILL BE CONSIDERED NOT ADDRESSED'
- SHOP DRAWINGS SHALL NOT BE USED AS RFIS AND ARE TO BE CONSIDERED COMPLETELY SEPARATE SUBMITTALS.

4.0 SITE PREPARATION NOTES:

- 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 UNSUITABLE MATERIAL.
- 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.
- FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE 8 IN INCH LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D - 698.
- 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 CONTROLLED FILL.

5.0 FOUNDATION NOTES: (TYP)

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY BLE CORP. DATED 03/31/2025
- 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.
- 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 SCHEDULE.
- 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 MID MAT OF UNREINFORCED LEAN (f_c = 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 CEMENT.
- 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 1/12" 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 MANUFACTURERS RECOMMENDATIONS AS FOLLOWS: 8" SLABS - FILL WITH EPOXY RESIN OTHER SLABS - FILL WITH FILL MOLDED OR ELASTOMERIC SEALANT
- UNLESS OTHERWISE APPROVED, ALL SLAB REINFORCEMENT SHALL BE SECURED INTO POSITION WITH PLASTIC TYPED 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 - W/ 4XW/1 X WVF 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%.
- 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.
- 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.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DERESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
- THE MINIMUM 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 MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPI). 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 STANDARDS). PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY THE ANCHORS EVALUATION REPORT. THE CONTRACTOR SHALL OBTAIN CONTRACT MANUFACTURERS REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5999.
- FOR ANCHORING INTO CRACKED AND UN-CRACKED CONCRETE:
A. MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND / OR ICCES AC109 FOR CRACKED AND UN-CRACKED CONCRETE. PRE-APPROVED PRODUCTS INCLUDE:
1. SIMPSON STRONG-TIE "STRONG-BOLT Z" (ICCES ESR-2713)
2. SIMPSON STRONG-TIE "TITEN HD" / "TITEN HD-RD" & "TITEN HD-CS" (ICCES ESR-2713)
3. SIMPSON STRONG-TIE "STRONG-TIE STEEL TITEN HD" (APMO-JUES ER-493)
4. SIMPSON STRONG-TIE "TITEN TURBO" (APMO-JUES ER-712)
B. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH AC108.4 AND ICCES 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. AC108.4 TEMPERATURE CATEGORY "B" ASSUMED IN DESIGN. PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING TENSION LOADS, INSTALLERS ARE REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE AC108.4 ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINUOUSLY INSPECTED. PRE-APPROVED PRODUCTS INCLUDE:
1. THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "SET-3G" (ICCES ESR-4067)
2. THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "SET-XP" (ICCES ESR-2508)
3. THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "AT-XP" (APMO-JUES ER-263)
4. POST INSTALLED REINFORCING BARS USING THE AC0316 DEVELOPMENT LENGTH DIVISION - SIMPSON STRONG-TIE "SET-XP" (ICCES ESR-2507)
5. POST INSTALLED REINFORCING BARS USING THE AC0316 DEVELOPMENT LENGTH PROVISION - SIMPSON STRONG-TIE "SET-XP" (ICCES ESR-2508)
C. SIMPSON STRONG-TIE CLEAN DIX DUST EXTRACTION SYSTEM IN APPROVED FOR USE WITH THE PRODUCTS LISTED ABOVE TO DRILL AND CLEAN HOLES.
- FOR ANCHORING INTO GROUT-FILLED CONCRETE MASONRY UNITS:
A. MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC201 (EXPANSION ANCHORS) OR ICCES AC106 (SCREW ANCHORS) PRE-APPROVED PRODUCTS INCLUDE:
1. SIMPSON STRONG-TIE "STRONG-BOLT Z" (APMO-JUES ER-240)
2. SIMPSON STRONG-TIE "WEDGE-BOLT" (ICCES ESR-1396)
3. SIMPSON STRONG-TIE "TITEN HD" & STAINLESS STEEL, TITEN HD" (ICCES ESR-1056)
4. SIMPSON STRONG-TIE "TITEN TURBO" (APMO-JUES ER-716)
B. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH (ICCES AC208) PRE-APPROVED PRODUCTS INCLUDE:
1. SIMPSON STRONG-TIE "SET-XP" (APMO-JUES ER-265)
2. SIMPSON STRONG-TIE "AT-XP" (APMO-JUES ER-261)
3. SIMPSON STRONG-TIE "ET-HP" (APMO-JUES ER-241)
C. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC68 FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY USING MANUFACTURERS RECOMMENDED SCREEN TUBES. PRE-APPROVED PRODUCTS INCLUDE:
1. SIMPSON STRONG-TIE "SET-XP" (APMO-JUES ER-265)
2. SIMPSON STRONG-TIE "AT-XP" (APMO-JUES ER-261)
3. SIMPSON STRONG-TIE "ET-HP" (ICCES ESR-3638)
D. FOR ANCHORING INTO UNREINFORCED MASONRY
A. ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC69 FOR PERFORMANCE IN UNREINFORCED MASONRY CONFIGURATIONS A, B, AND C. PRE-APPROVED PRODUCTS INCLUDE:
1. SIMPSON STRONG-TIE "ET-HP" (ICCES ESR-3638)
2. FOR ANCHORING LOW VELOCITY AND THREADED STUDS INTO CONCRETE, MASONRY AND STEEL.
A. POWDER-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC70. PRE-APPROVED PRODUCTS INCLUDE:
1. SIMPSON STRONG-TIE "POWDER-ACTUATED FASTENERS" (ICCES ESR-2138)
B. GAS-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:
2. SIMPSON STRONG-TIE "GAS ACTUATED FASTENERS" (ICCES ESR-2611)

8.0 CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MIXES SHALL BE DESIGNED PER ACI 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-64.
- CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP AND UNIT WEIGHT RATIO REQUIREMENTS:

ELEMENT	MIN. f _c (28 DAYS)	SLUMP*	UNIT WEIGHT
CONCRETE NOTED	3000 PSI	2" TO 4"	145 PCF
FOOTINGS	3000 PSI	2" TO 4"	145 PCF
SLABS-ON-GRADE	3000 PSI	2" TO 4"	145 PCF

*AT CONTRACTORS OPTION, AN APPROVED ADMIXTURE MAY BE USED TO PRODUCE FLOWABLE CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 10 INCHES. THE CONTRACTOR SHALL SUBMIT TEST RESULTS OF THE PROPOSED CONCRETE MIXES ALONG WITH THE MANUFACTURERS 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.
- WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.
- 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 CONDITIONS.
- WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR ANY CONCRETE SUBJECTED TO FREEZING/THAWING.
- 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
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- 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 D14. EPOXY COATED REINFORCING SHALL CONFORM TO ASTM A-775.
- ALL WELDED WIRE FABRIC (WVF) SHALL CONFORM TO ASTM A-185.
- 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 SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.
- 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:
A. CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BAR, W31 OR D31 WIRE & SMALLER - 2"
#8 BAR, W31 OR D31 WIRE & SMALLER - 1 1/2"
B. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS & JOISTS
#14 AND #18 BARS - 1 1/2"
#11 BAR AND SMALLER - 3/4"
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS
SHELLS, FOLDED PLATE MEMBERS - 1 1/2"
#6 BAR AND LARGER - 3/4"
#6 BAR, W31 OR D31 WIRE AND SMALLER - 1/2"
CONCRETE CAST AGAINST EARTH - 3"
C. CONCRETE CAST AGAINST EARTH - 3"
- BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER AND PLACEMENT. BAR SUPPORTS SHALL BE PLASTIC TYPED OR STAINLESS STEEL.
- ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
- 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 90 FEET.
- 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 SHALL PASS CONTINUOUSLY THROUGH THE JOINT.
- REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS, WASHERS, MASONRY ANCHORS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGELS, ETC.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR UNDERFLOOR, PERIMETER AND OTHER DRAINS AND FOR SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADERS ARE RESPONSIBLE FOR THEIR ITEMS.
- FILL SLABS, NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE REINFORCED WITH A MINIMUM OF 6X6 W/ 4XW/1 X WVF UNLESS NOTED OTHERWISE ON OTHER DRAWINGS OR IN THE SPECIFICATIONS.
- REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE - REINFORCING

9.0 PLYWOOD/GYPBOARD SHEATHING TO WOOD NOTES:

- ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS.
- 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 18" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER.
- ALL NAILING SHALL BE CAREFULLY DRIVEN AND NOT OVERDRIVEN. THE USE OF PNEUMATIC 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 NATING 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 CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWWA STD. M4).
- 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.
- 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.
- 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 McMILLAN CORP.". BOISE, IDAHO OR APPROVED EQUAL. MICRO-LAM MATERIAL SHALL BE 2.0; SOUTHERN PINE. DO NOT CUT OR NOTCH MICRO-LAM MATERIAL WITHOUT THE MANUFACTURER'S APPROVAL.
- 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).
- HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF N.C.B.C. 2018.
- 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:
A. MINIMUM GRAVITY LOADING:
ROOF TRUSSES
TOP CHORD LIVE LOAD: 20 PSF
DEAD LOAD: 8 PSF
FLOOR TRUSSES
40 PSF
15 PSF
BOTTOM LIVE LOAD: 10 PSF
DEAD LOAD: 5 PSF
- WIND LOADING CASE: (PER N.C.B.C. 2002, SECTION 1609.8) SEE 'DESIGN CRITERIA NOTES FOR WIND COMPONENT CRITERIA ON THE SURFACE AREA
TOP CHORD LOADING: P - (TOP CHORD DL X 8)
NET UPLIFT: P + Pv X 1 X Kh X (Gc) WITH Gp PER BOCA FIG. 1609.8.1(2) ON THE SURFACE AREA
BOTTOM CHORD LOADING: P - (BOTTOM CHORD DL X 8)
NET UPLIFT: P + Pv X 1 X Kh X (Gcp) WITH Gp1 AS NOTED HEREIN
- WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE 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
- WOOD MATERIALS SHALL BE SOUTHERN PINE, DOUGLAS FIR OR LARCH AND SHALL BE KILN DRIED AND USED AT 19% MAXIMUM MOISTURE CONTENT. PROVIDE GRADE NO. 2 OR AS REQUIRED TO SATISFY STRESS REQUIREMENTS.
- 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, JOING 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.
- 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 "HB-91, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES" SHALL BE A MINIMUM REQUIREMENT.
- TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED NOR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 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 _____.
- 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.
A. QUALIFIED TO ASTM D 5456 BY APA- THE ENGINEERED WOOD ASSOCIATION.
B. MODULUS OF ELASTICITY E = 2.0 x 10 PSI
C. SHEAR MODULUS OF ELASTICITY G = 0.125 x 10 PSI
D. FLEXURAL STRESS Fb = 2,900 PSI
E. HORIZONTAL SHEAR Fv = 265 PSI
F. COMPRESSION PERP. TO GRAIN Fc = 845 PSI
- 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 ACCESSORIES SPECIFIED.
- INSTALL GP LAM LVL BEAMS AND HEADERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

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NC CERTIFICATE OF LICENSE # P-1893

SIGNATURE:

CLIENT:

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



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

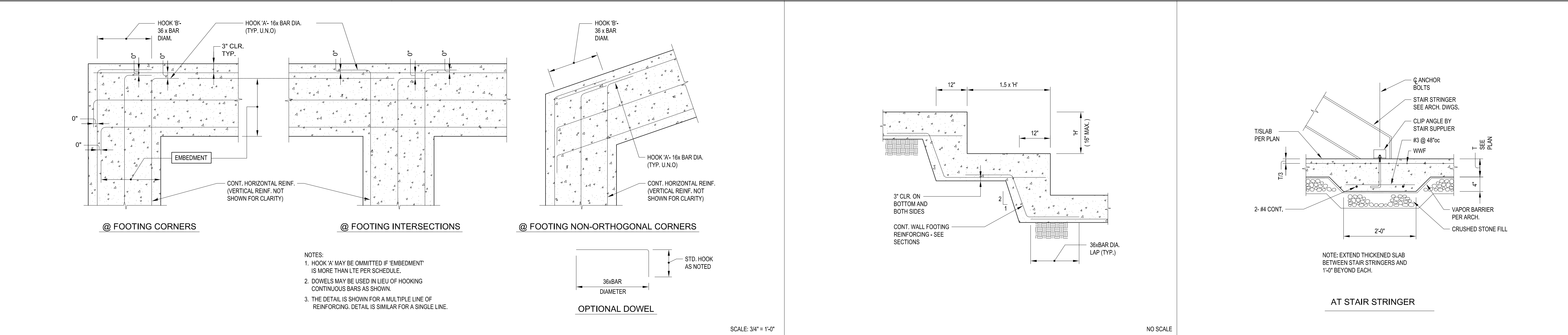
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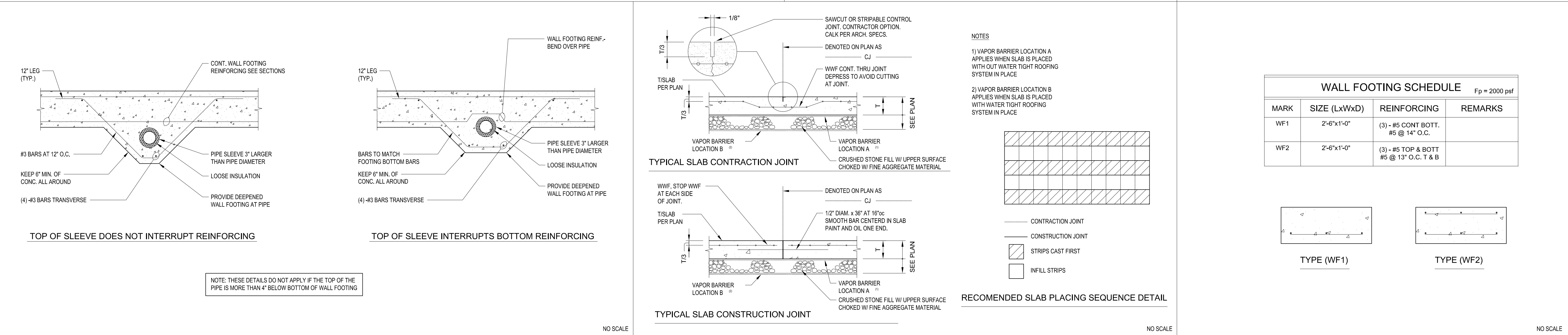
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2

STEPPED FOOTING

3

TYP. THICKENED SLAB DETAIL



4

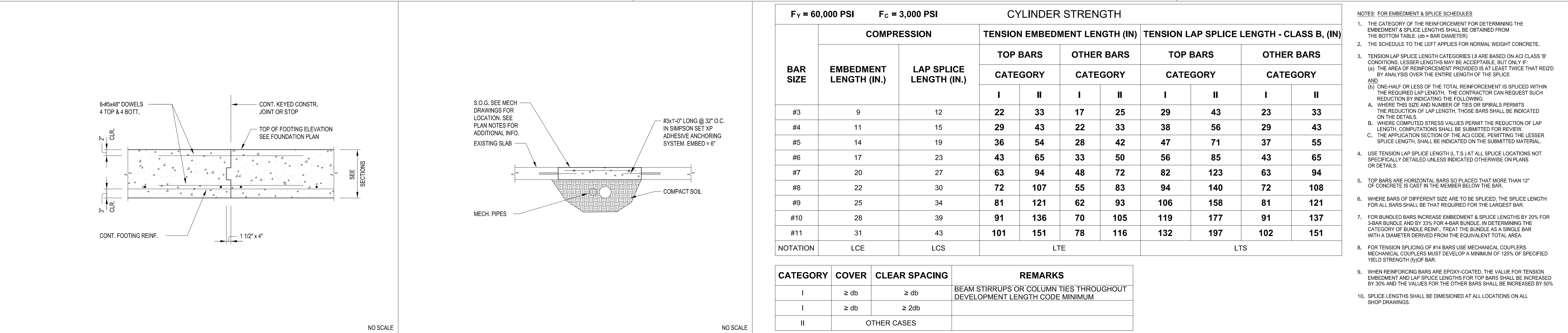
TYP. STRIP FOOTING CORNER INTERSECTION & NON-ORTHOGONAL

5

TYP. SLAB CONSTRUCTION/ CONTROL JOINT

6

WALL FOOTING SCHEDULE



7

TYP. FOOTING CONST. JOINT

8

TYP. TRENCH DETAIL

EMBEDMENT AND LAP SPLICE SCHEDULE

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WALL STUD SCHEDULE

MARK	LEVEL	STUDS	SPACING
W1	B - ROOF <small>NOTES: (H) (S)</small>	2 x 6 SPF NO. 2	24" O.C.
W2	B - 1	(3)2 x 4 SPF NO. 2	24" O.C.
	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.

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

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"
	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"
	22'-6"	3 ROWS AT 12" oc	30'	2 ROWS AT 12" oc
4	-	N / A	13'-6"	2 ROWS AT 24" oc STAGGER AT 12"
	-	N / A	27'	2 ROWS AT 12" oc

NOTES:
1. TOP AND BOTTOM ROWS OF CONNECTORS SHALL BE 2" FROM EDGE
2. BOLT HOLES ARE TO BE THE SAME DIAMETER AS THE BOLT. EVERY BOLT MUST 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.
3. FOR THREE-PIECE MEMBER, SPECIFIED NAILING IS FROM EACH SIDE.
4. FOUR-PLY MEMBERS, REGARDLESS OF DEPTH, MUST BE BOLTED.

MULTIPLE MEMBERS

1

WALL STUD SCHEDULE

2

FASTENING REQUIREMENTS

3

WOOD HEADER SCHEDULE

4

JOIST SCHEDULE

5

STEEL LINTEL SCHEDULE

6

WOOD BEAM SCHEDULE

7

WOOD HEADER SCHEDULE

8

NAIL FASTENER SCHEDULE

9

POST SCHEDULE

10

TYPICAL DECKING LAYOUT DETAILS

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"

NOTES:
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

MARK	SIZE	POST
B1	(2)2x12 SPF NO.2	SEE PLAN
B2	(2)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN
B3	(3)1-3/4x14 LVL (2.0E)	SEE PLAN
B4	(2)2x10 SPF NO.2	SEE PLAN
B5	(3)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN

NOTES:
1. SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS.
2. SEE TYPICAL POST SCHEDULE & ELEVATION ON S1.00 SERIES SHEETS
3. IF NO POST IS SHOWN ON PLAN, USE (2) WALL STUDS UNDER BEAM

WOOD HEADER SCHEDULE

MARK	SIZE	JACKS	KINGS
H1	(3)1-3/4x9-1/4 LVL (2.0E)	TRIPLE	DOUBLE
H2	(3)2x12 SPF NO.2	DOUBLE	DOUBLE

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

WOOD POST SCHEDULE

MARK	POST	CONNECTION	
		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 LENGTH= 3 IN.
SEE NAILING SCHEDULE BELOW

DECKING LAYOUT @ BLOCKED DIAPHRAGMS

DECKING LAYOUT @ UNBLOCKED DIAPHRAGMS

1

NAIL FASTENER SCHEDULE

2

POST SCHEDULE

3

TYPICAL DECKING LAYOUT DETAILS

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Luis Graef: President

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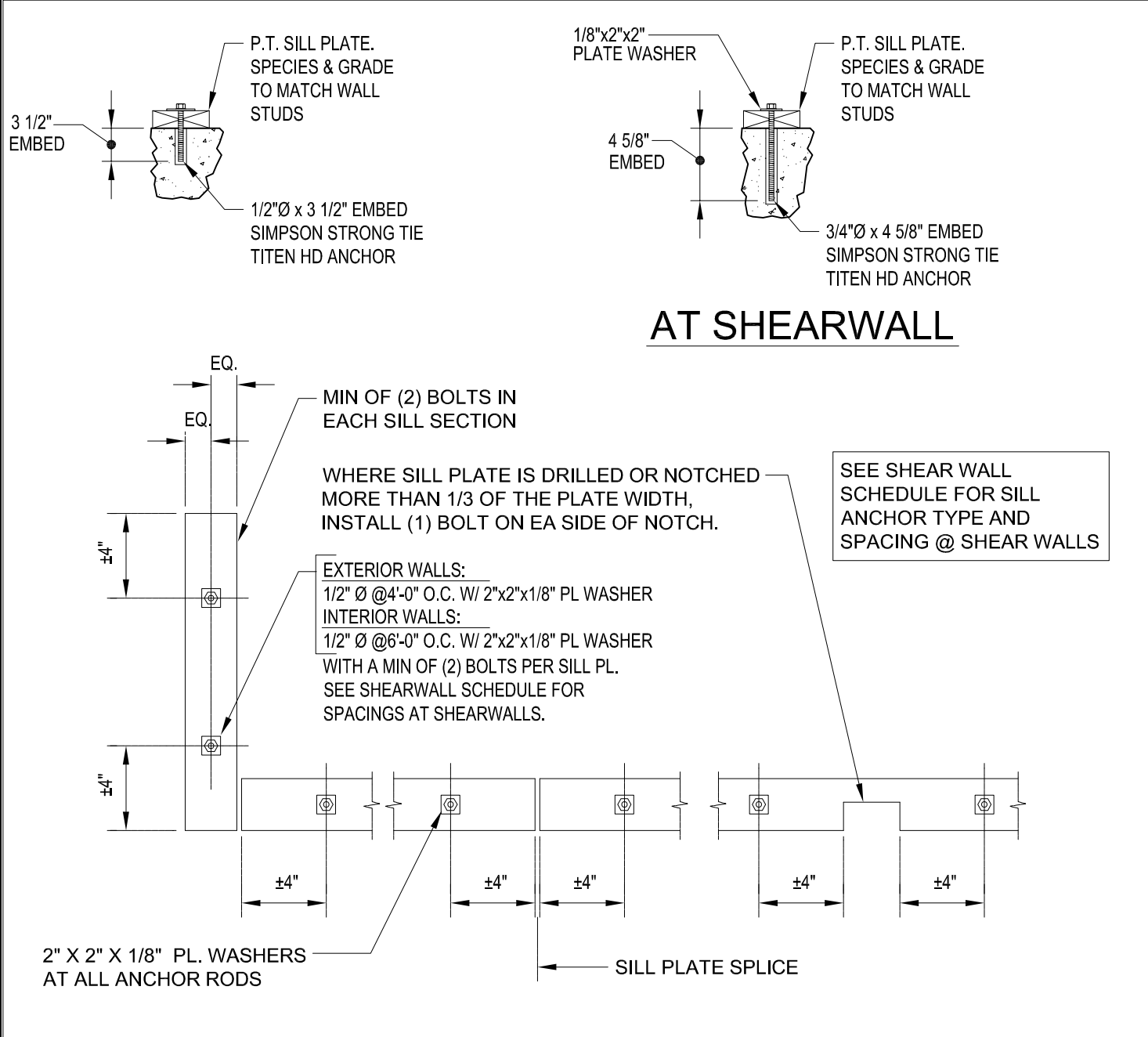
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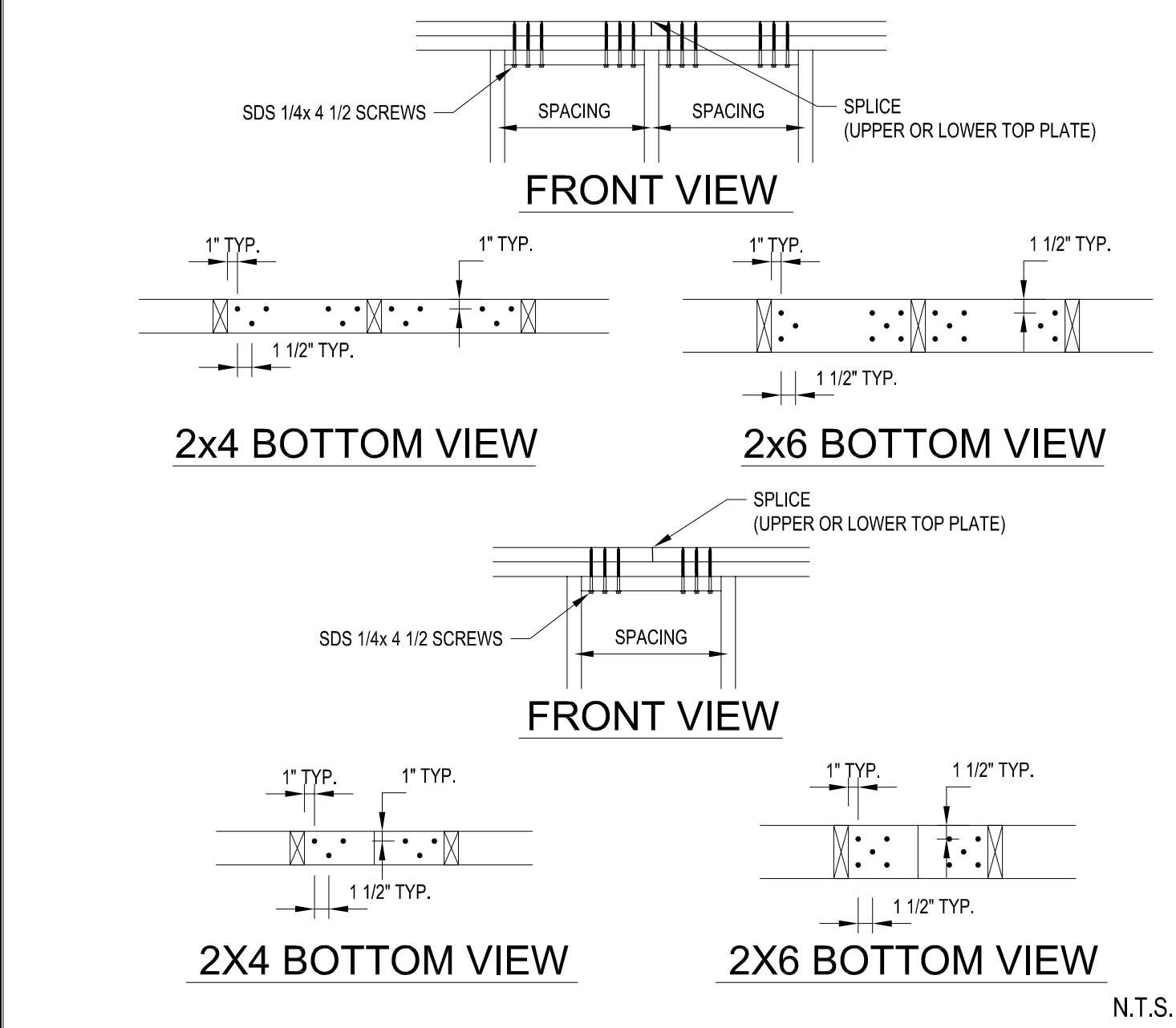
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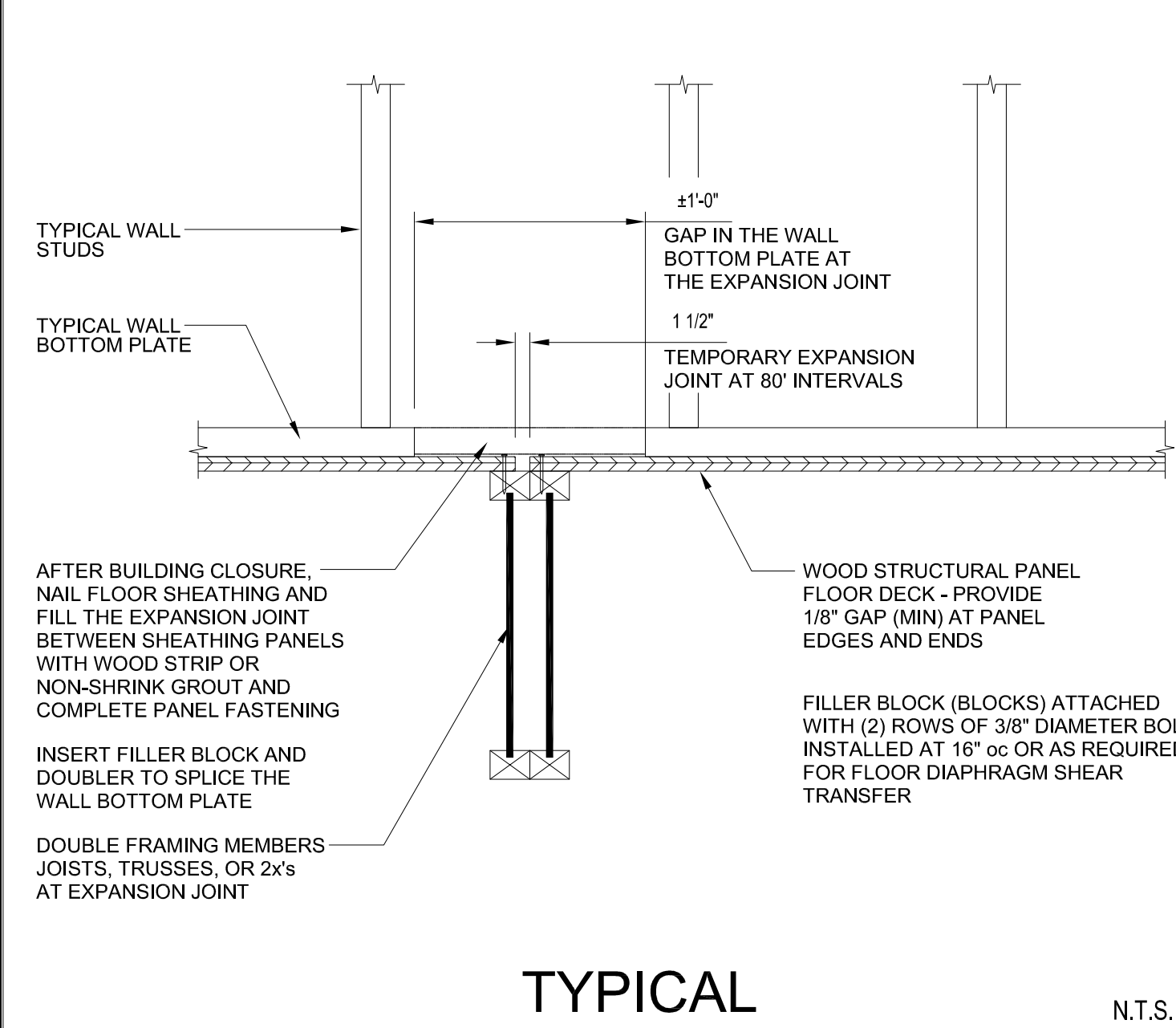
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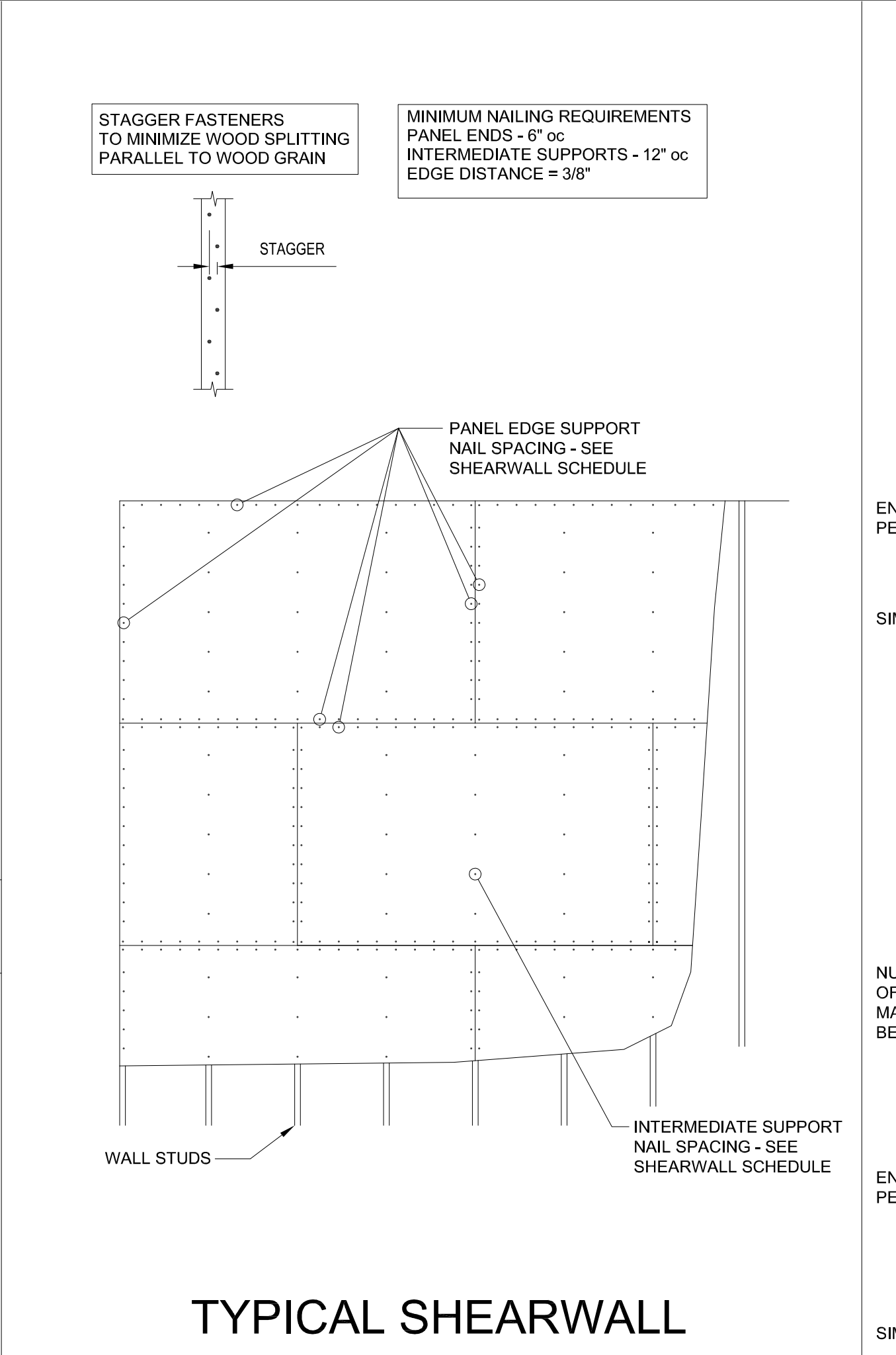
1 TYP. SILL PLATE BOLTING @ S.O.G.



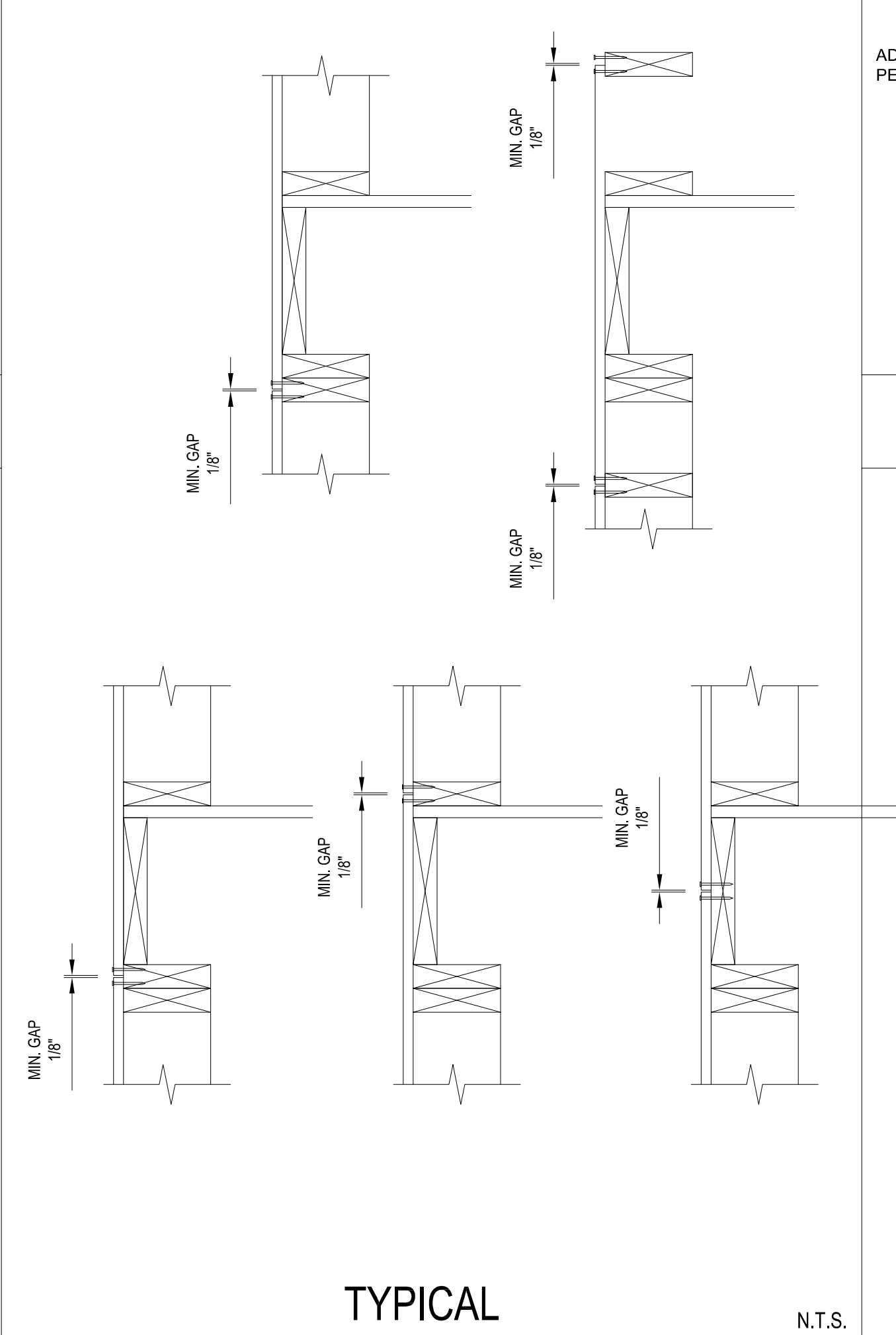
5 TOP PLATE SPLICE DETAILS



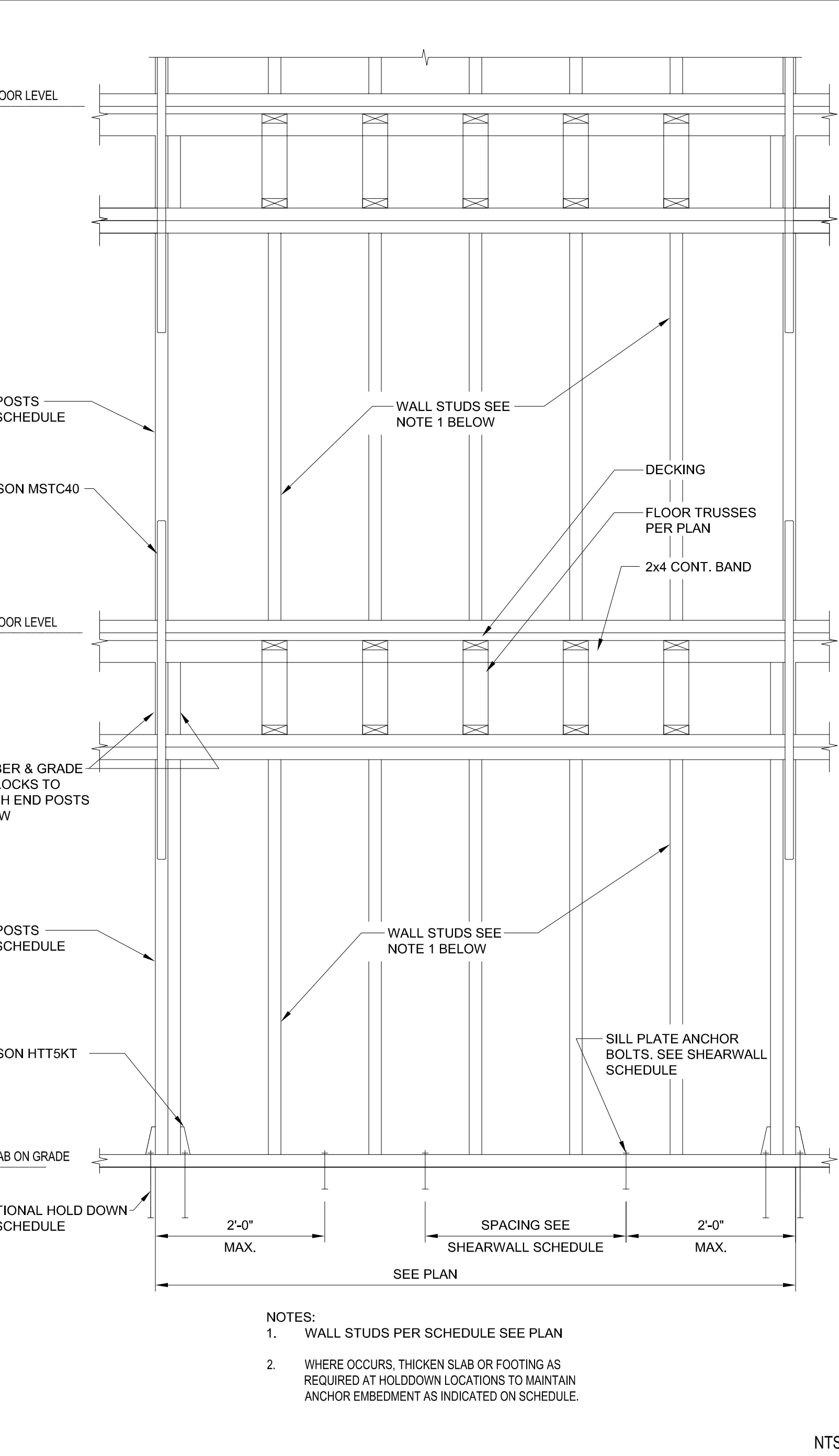
6 FLOOR EXPANSION JOINT



2 PANEL NAILING / SCREWING



7 STORY TO STORY SHEATHING



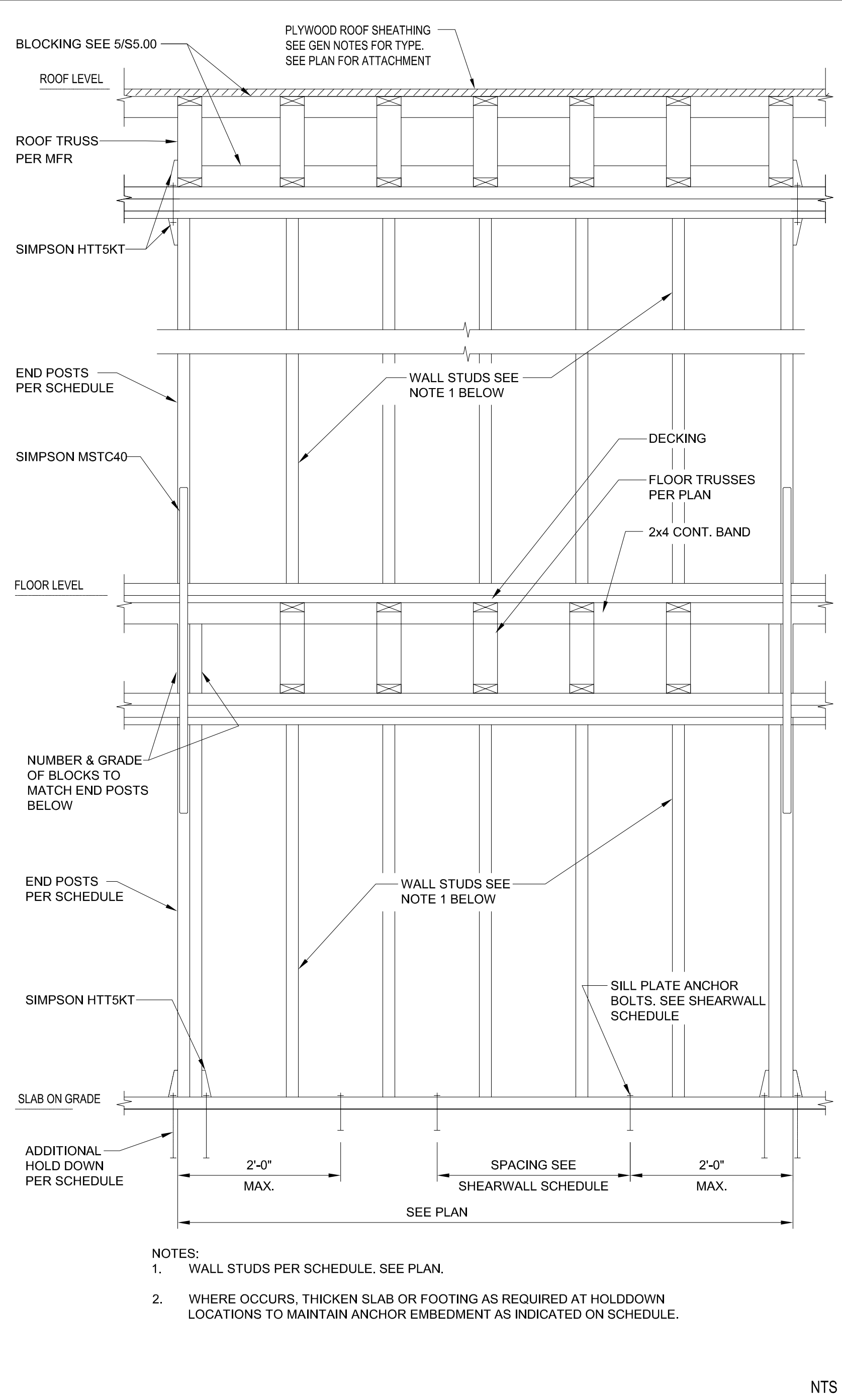
3 SW1 & SW2 ELEVATION

SHEAR WALL SCHED					
MARK	FLOOR	PANEL TYPE SEE ARCH ASSEMBLY	# OF PANELS (NOTE #3)	PANEL NAILING	
				NAIL SIZE	EDGE SUPPORT NAIL SPACING
SW-1	B - 3	7/16" PLYWOOD	SINGLE	8d	4" O.C.
	3 - Roof	7/16" PLYWOOD	SINGLE	8d	6" O.C.
SW-2	B - 3	5/8" GYP.	SINGLE	6d COOLER	6" O.C.
	3 - Roof	5/8" GYP.	SINGLE	6d COOLER	6" O.C.
SW-3	B - 3	5/8" GYP.	SINGLE	6d COOLER	6" O.C.
	3 - Roof	5/8" GYP.	SINGLE	6d COOLER	6" O.C.

NOTES:

- SEE 8/S1.2 FOR PERFORATED SHEAR WALL ELEVATION.
- END POST HOLD DOWN, USE SIMPSON HTT4 W/ 5/8"Ø KWIK BOLT 3 (EMBED = 4")
- "SINGLE" INDICATES PLYWOOD SHEATHING ON ONE SIDE OF WALL STUDS.
- ALL FOUR SIDES OF EACH PANEL MUST BE CONTINUOUSLY BLOCKED (TYPICAL)

8 SHEARWALL SCHEDULE



4 SW3 ELEVATION

JDH
STRUCTURAL
ENGINEERS, PLLC

19545 GREENTREE WAY, SUITE B
CORNELIUS, NORTH CAROLINA 28031
704.987.7072
http://jdhengineers.com

NC CERTIFICATE OF LICENSE # P-1693

SIGNATURE:

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

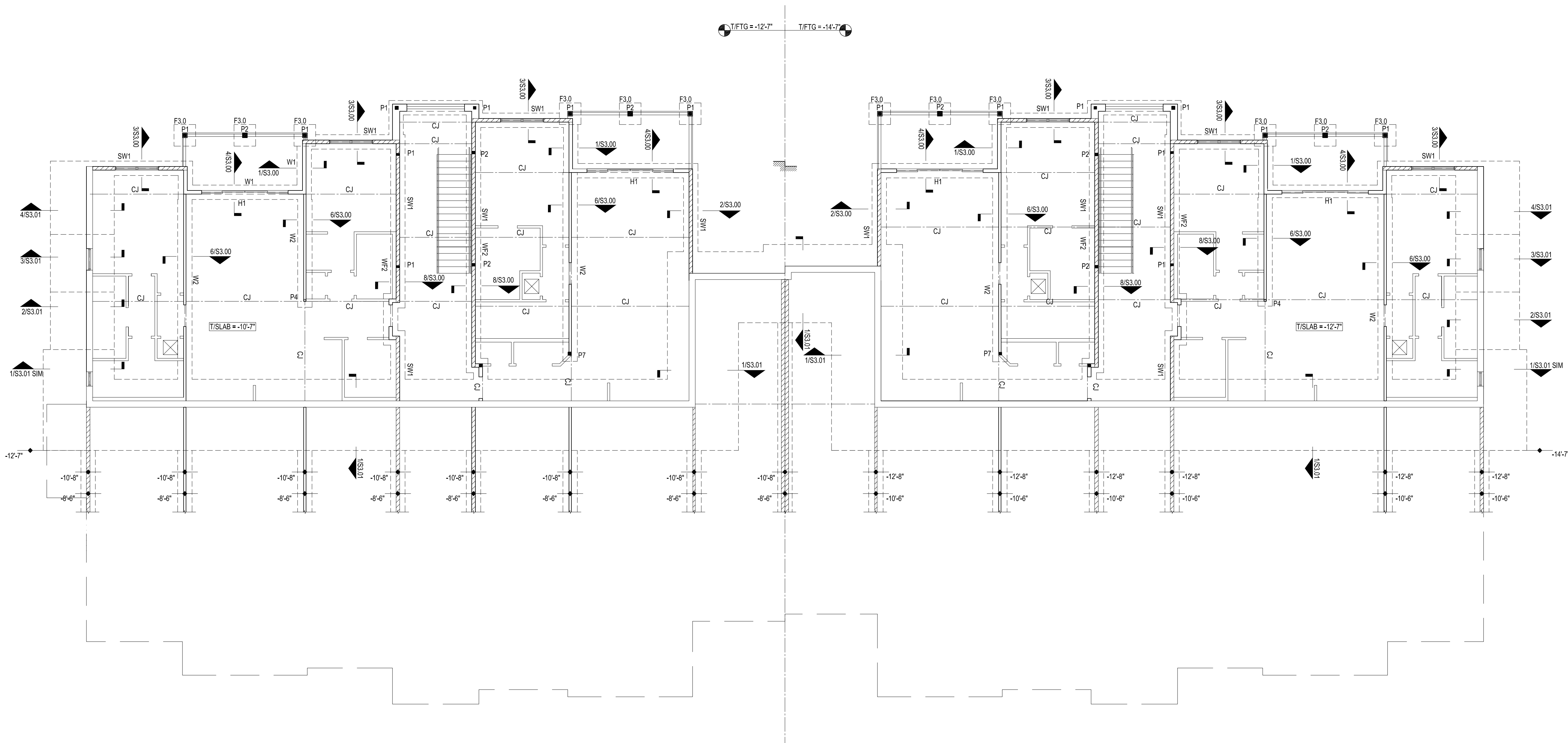
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
TYPICAL DETAILS

SHEET #:
S-1.02



BASEMENT FOUNDATION PLAN

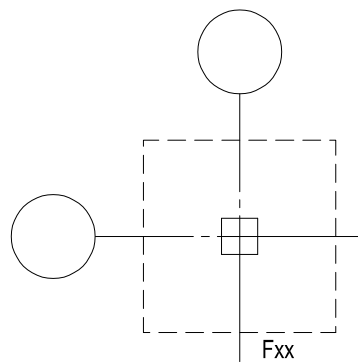
SCALE: 1/8" = 1'-0"

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- * Jx * INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- * Bx * INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- * RJx * INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FOUNDATION PLAN NOTES:

- 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.).
- 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.
- 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.
- 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.
- NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (f' = 2000psi) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.
- 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.
- 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.).
- W1 TYP U.N.O., W1 TYP U.N.O., SEE S/S-1.02 FOR SHEARWALLS W/ OPENINGS.
- ALL STUDS TO ALIGN W/ TRUSSES
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- REFER TO ARCHITECTURAL MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON- STRUCTURAL MASONRY.
- 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.
- SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.
- SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:
Fxx = FOOTING MARK PER SCHEDULE SEE S1.00



SIGNATURE:

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



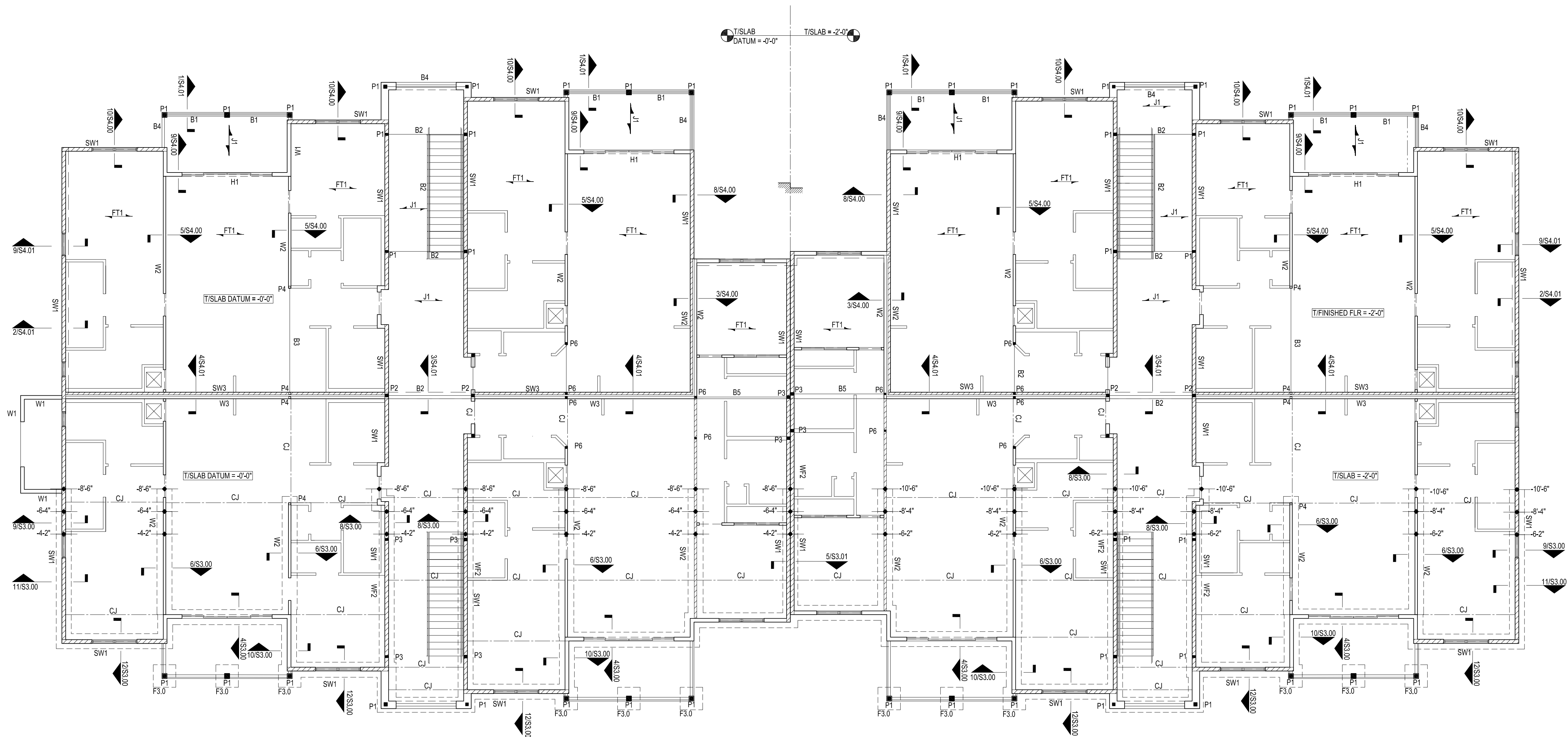
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
BUILDINGS 5 & 7 BASEMENT
FOUNDATION PLAN

SHEET #:
S-2.01B



FIRST FLOOR FOUNDATION & FRAMING PLAN

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

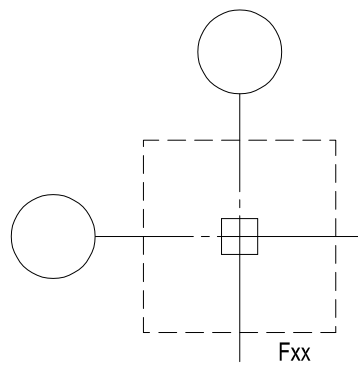
LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- * Jx * INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- * Bx * INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- * RJx * INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FOUNDATION PLAN NOTES:

- 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", TW -5'-3", T/STL -6' 1/4", ETC.).
- 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.
- 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.
- 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.
- NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (f' = 2000psi) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.
- 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.
- W1 TYP U.N.O., W1 TYP U.N.O., SEE S1S-1.02 FOR SHEARWALLS W/ OPENINGS.
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- REFER TO ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON- STRUCTURAL MASONRY.
- 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.
- SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.
- SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:
Fxx = FOOTING MARK PER SCHEDULE ON S1.00



SIGNATURE:

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



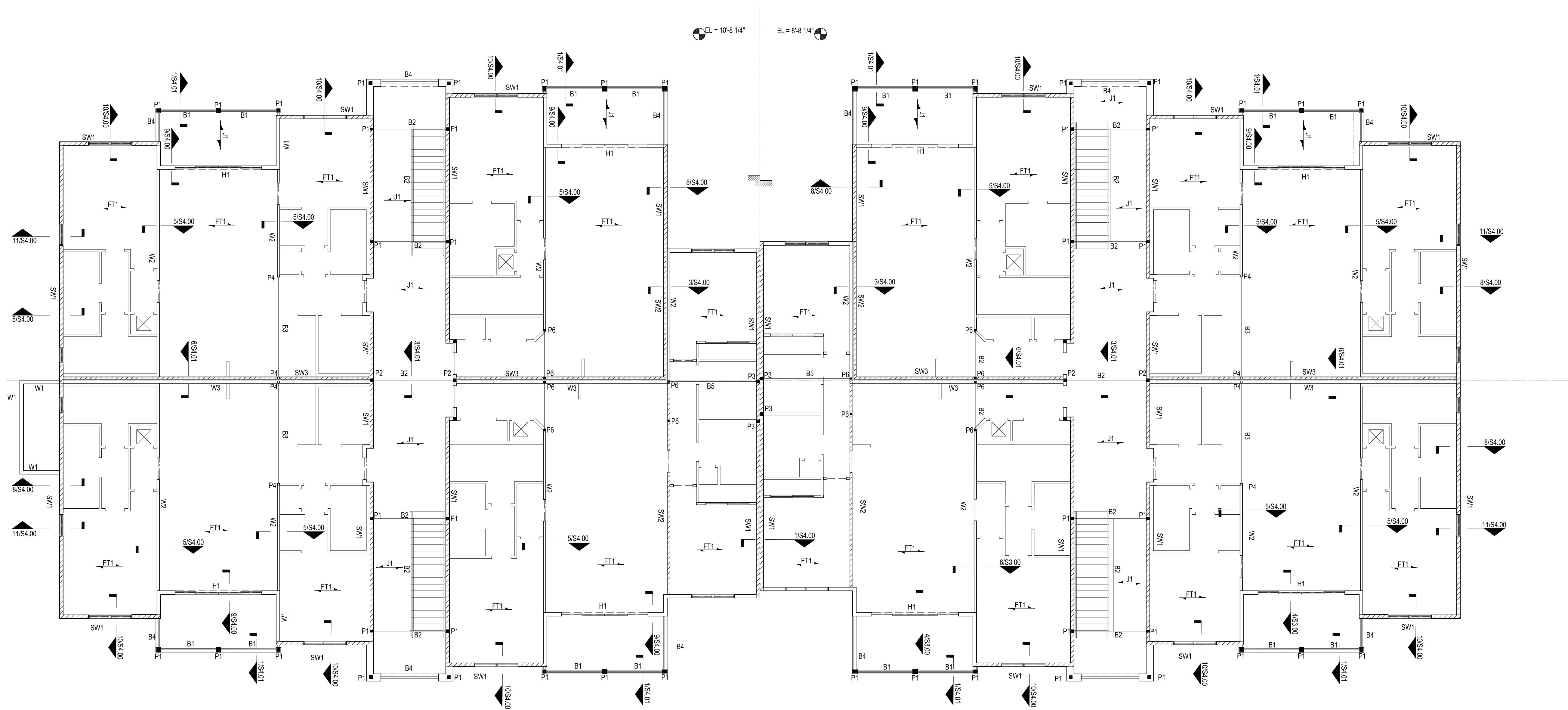
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION :
BUILDINGS 5 & 7 FIRST FLOOR
FOUNDATION & FRAMING PLAN

SHEET #:
S-2.02



SECOND FLOOR FRAMING PLAN

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

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- "RJx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

- 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.
- WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- 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.
- SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWS PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.
- TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
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- SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
- SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
- SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- 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.
- INDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.
- INDICATES SHEARWALL LOCATION AND LABEL
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.

SIGNATURE:

CLIENT:
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341 N main Street
Hendersonville, NC 28792
Luis Graef: President



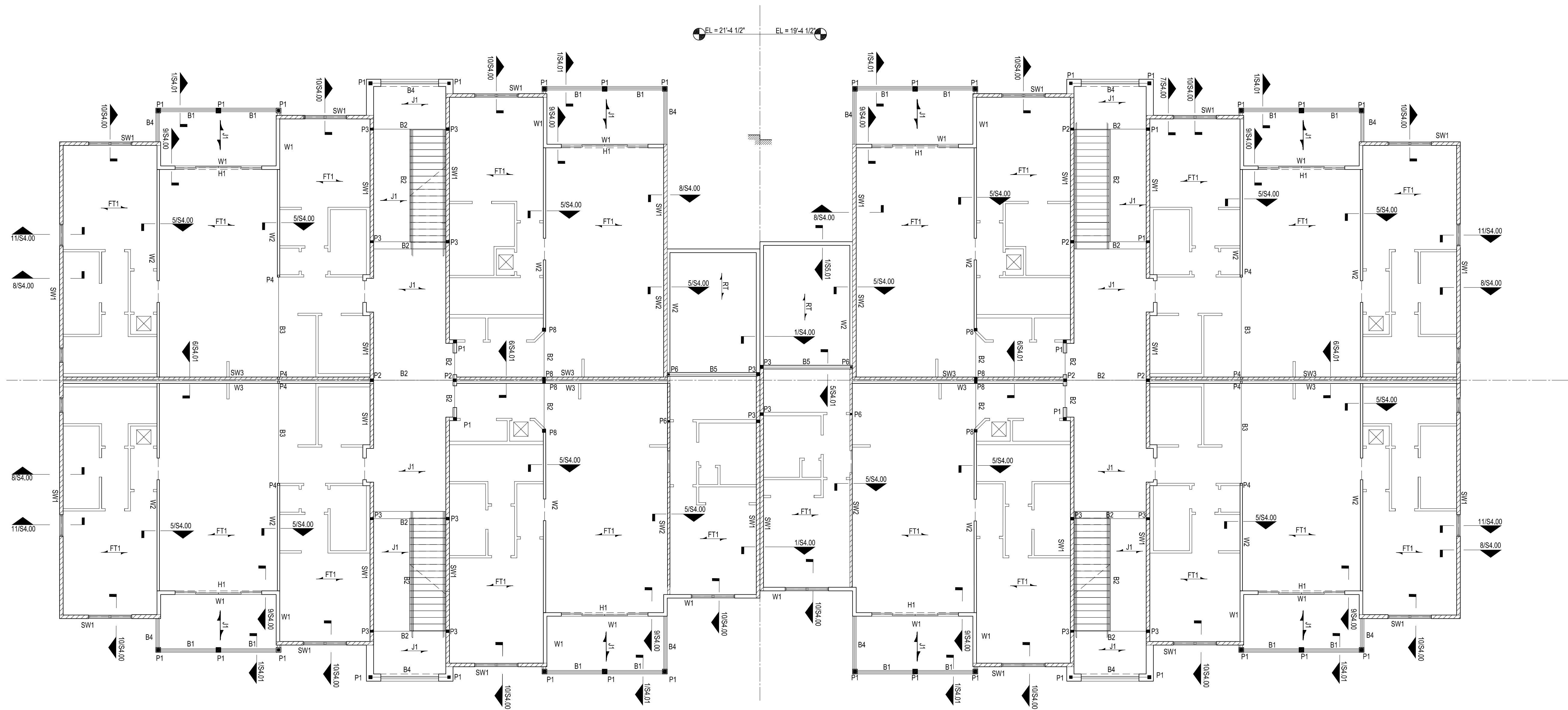
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
BUILDINGS 5 & 7 SECOND
FLOOR FRAMING PLAN

SHEET #:
S-2.03



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

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- *Jx* INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- *Bx* INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- *RJx* INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

- 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.
- WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- 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.
- 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.
- TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
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- SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
- SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
- SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- 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.
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.
- INDICATES SHEARWALL LOCATION AND LABEL
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS
- W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S1.02 FOR SHEARWALLS W/ OPENINGS.

SIGNATURE:

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



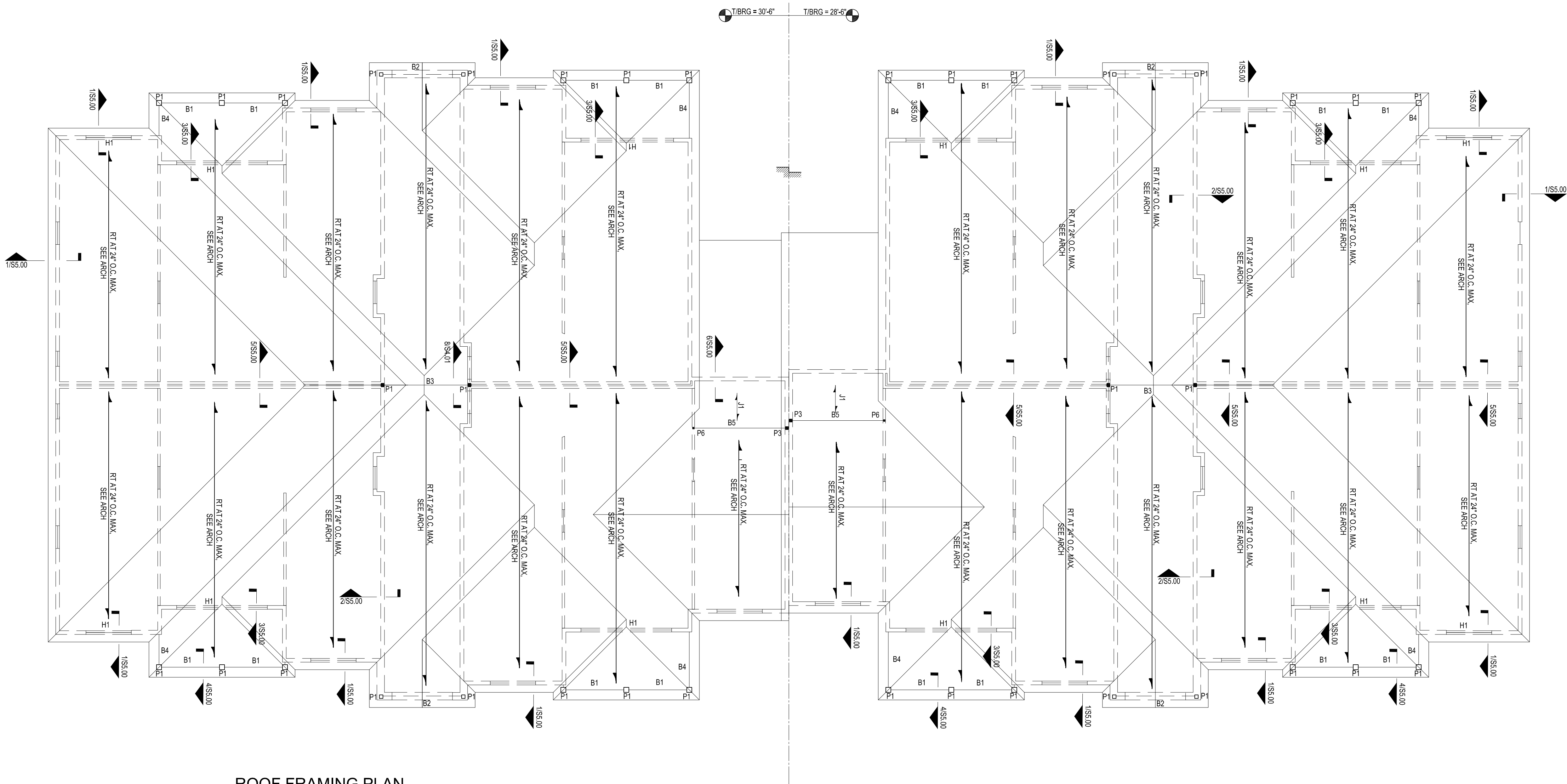
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
BUILDINGS 5 & 7 THIRD
FLOOR FRAMING PLAN

SHEET #:
S-2.04



ROOF FRAMING PLAN

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

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- "Rjx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

ROOF FRAMING PLAN NOTES:

- 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.
- WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- 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.
- 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.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
- 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.
- SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
- SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
- SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF WALL U.N.O.
- W1 TYP U.N.O., WF1 TYP U.N.O., SEE S/S-1.02 FOR SHEARWALLS W/ OPENINGS.
- SEE S/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS. USE UNBLOCKED DIAPHRAGM U.N.O.
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.
- MAU-1 AND MAU-2 DENOTES ROOF TOP UNITS. SEE MECH. DRAWINGS FOR LOCATION AND EQUIPMENT WEIGHT. JOIST SUPPLIER TO DESIGN TO SUIT. SEE S1.00 FOR ROOF LOADS.
- SEE S1.05 FOR WALL OPENINGS
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

SIGNATURE:

CLIENT:

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



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:

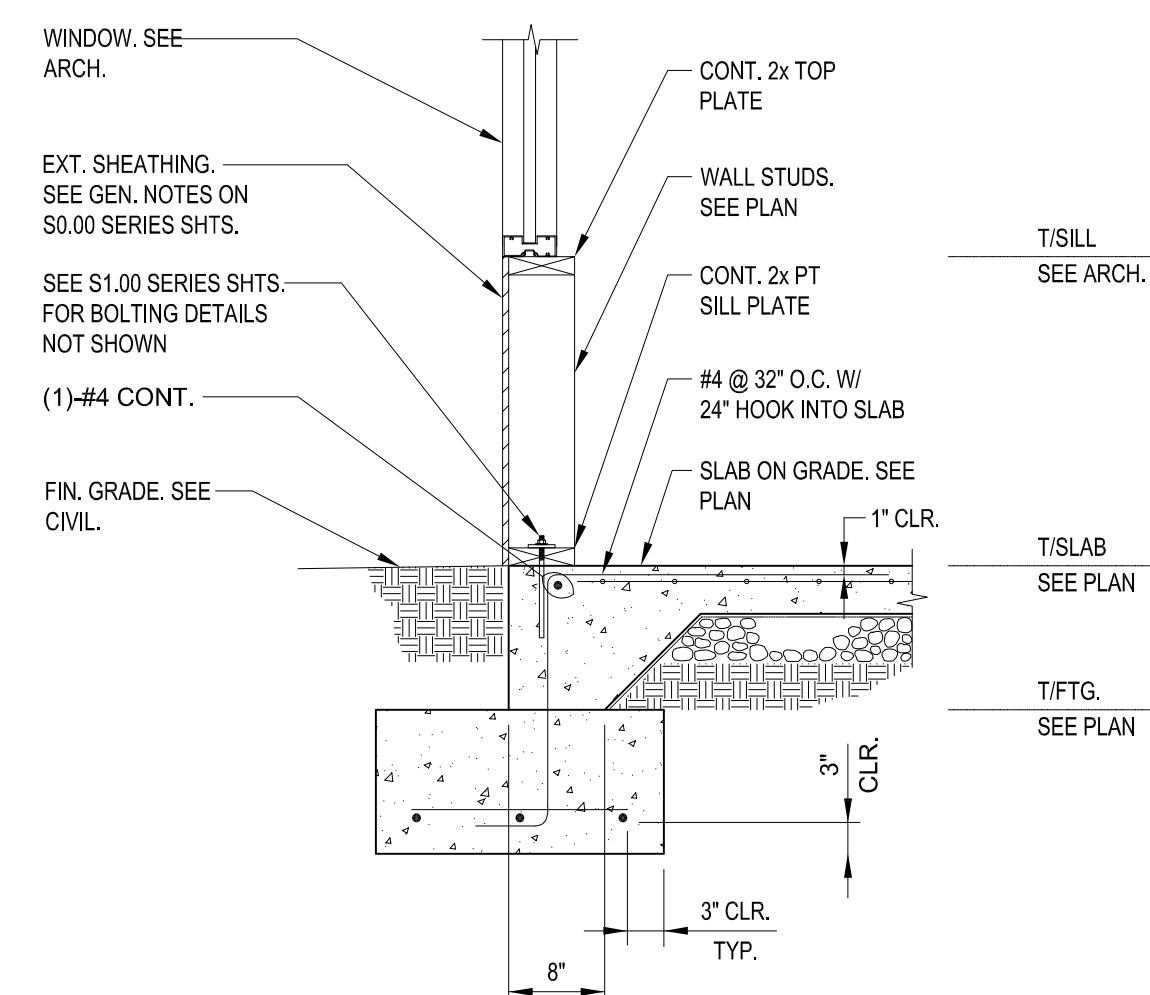
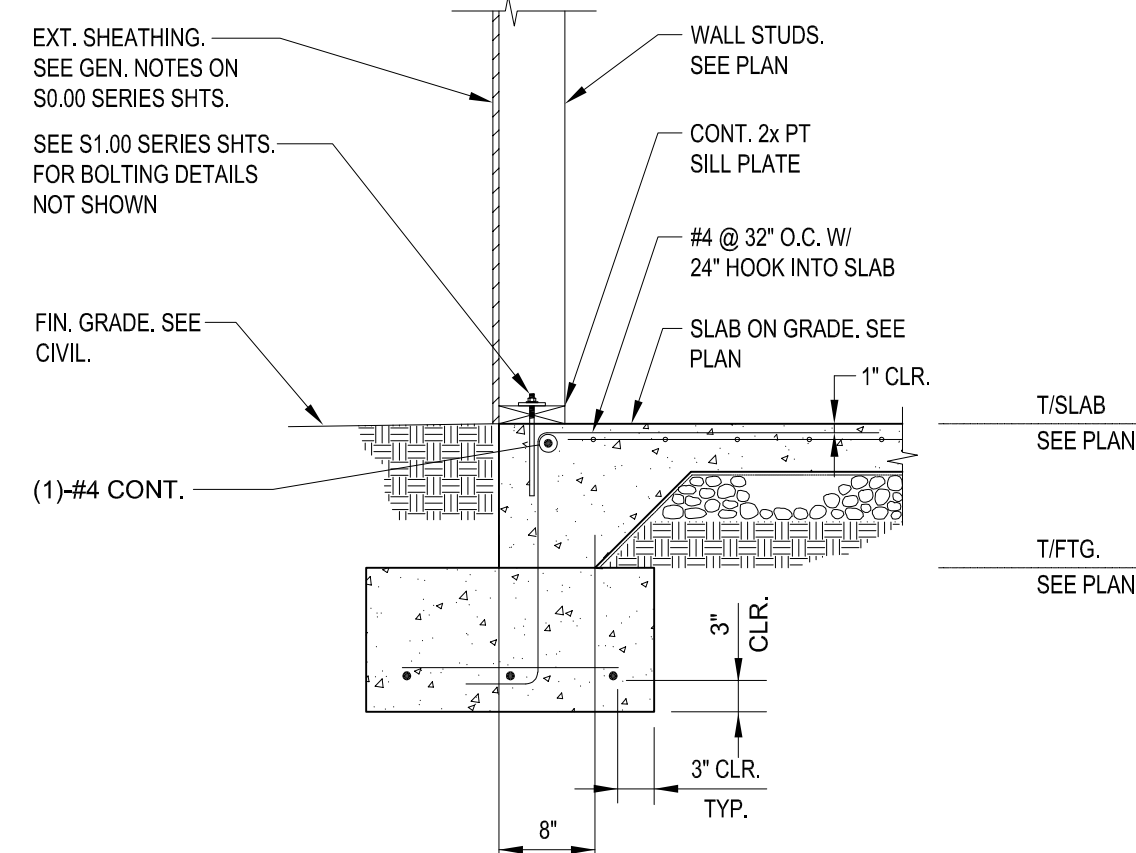
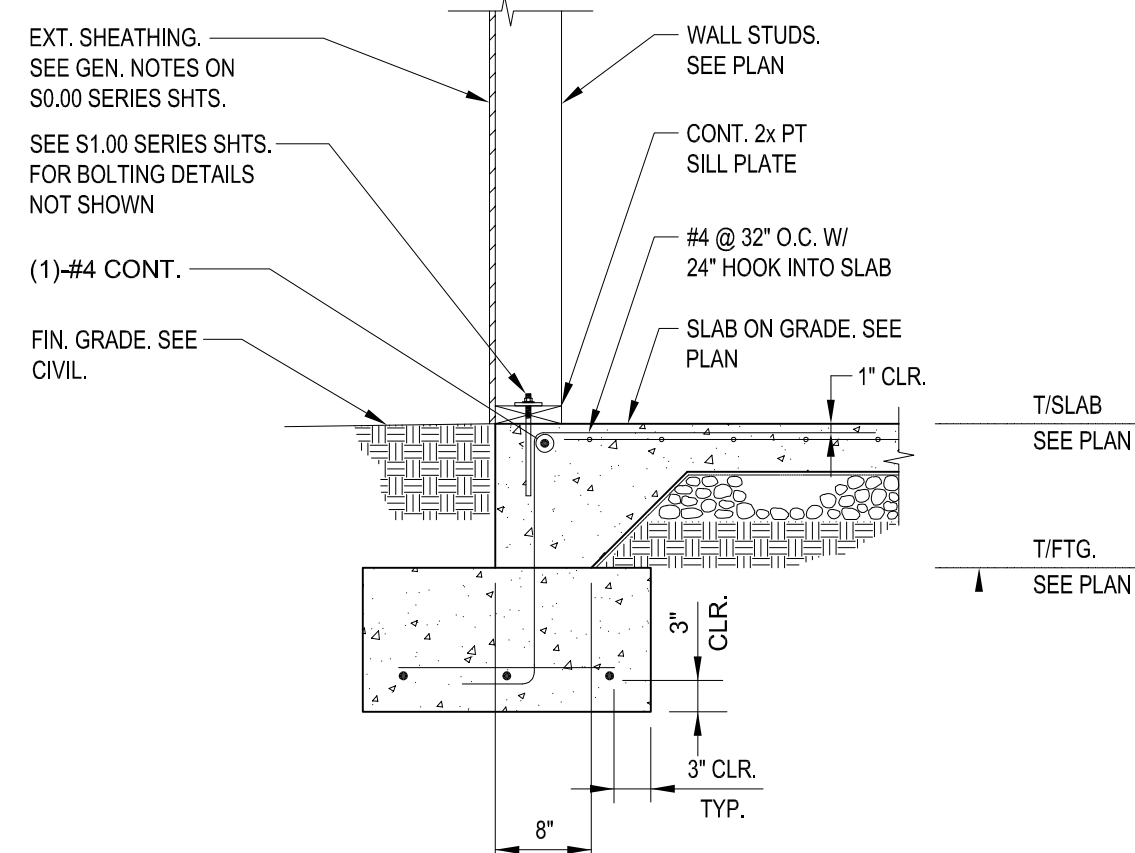
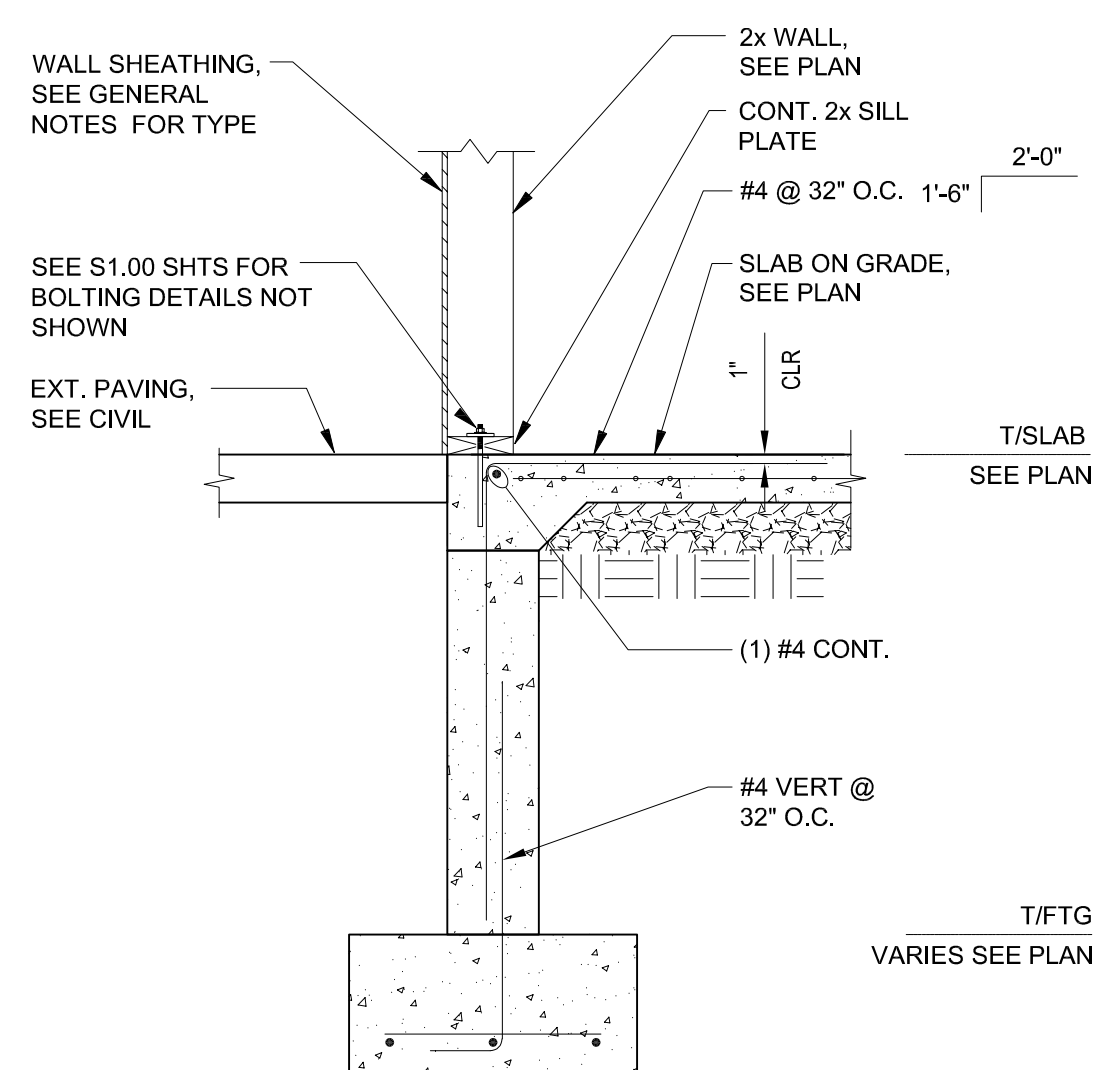
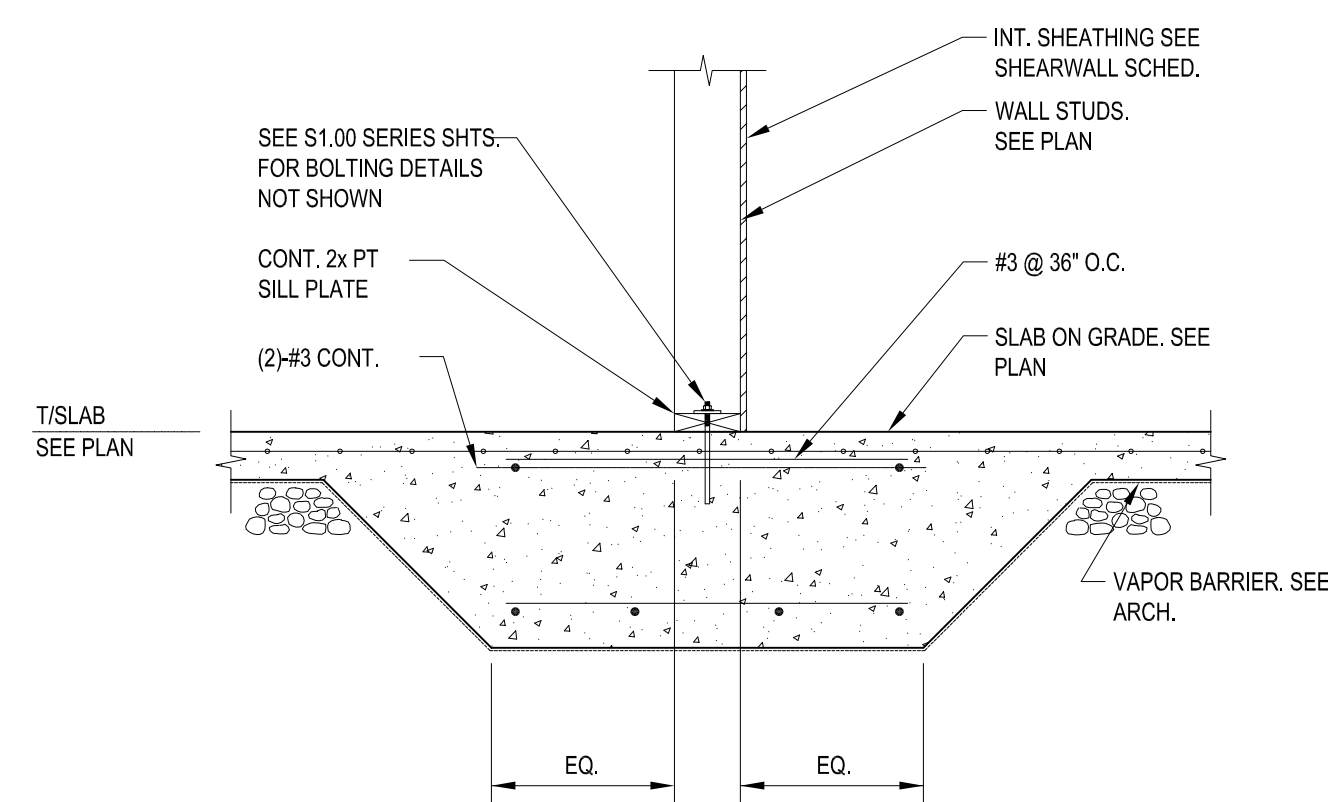
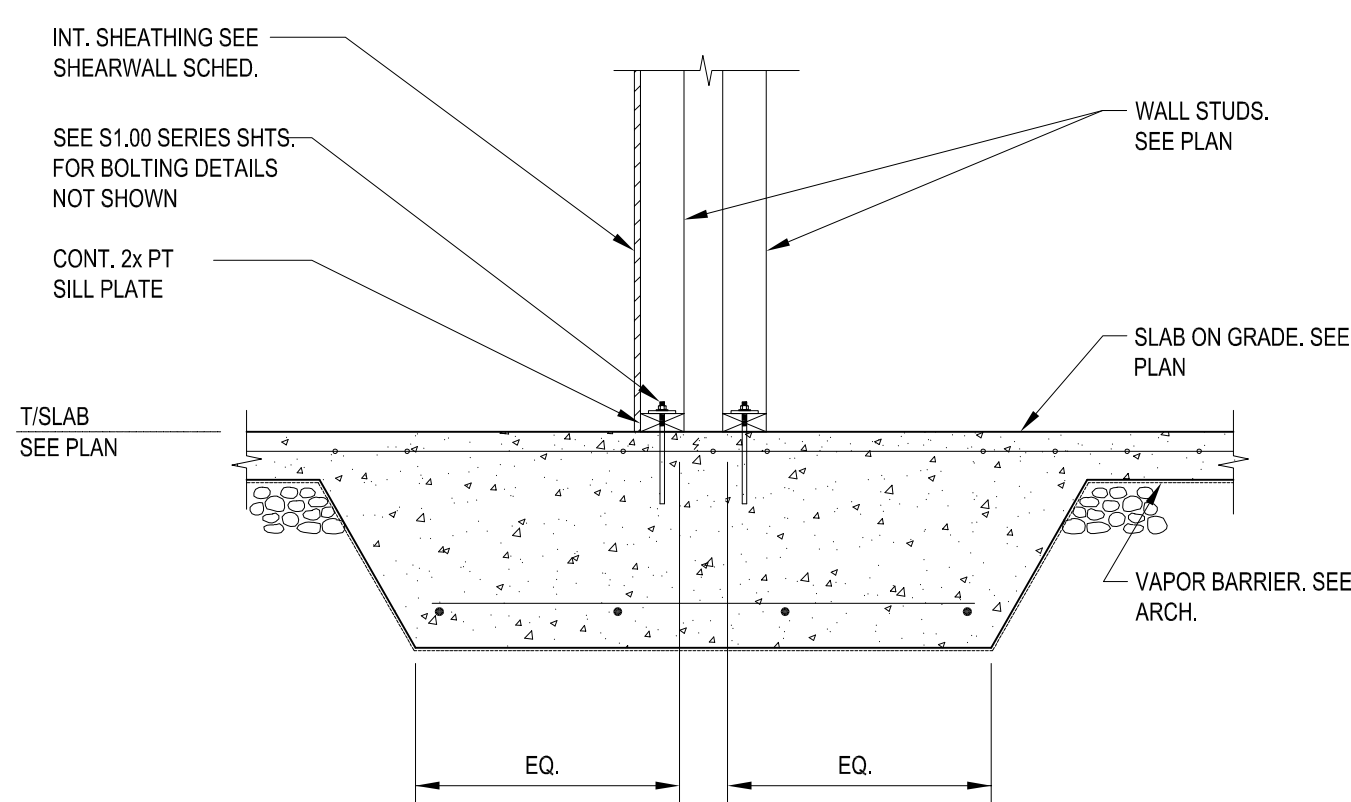
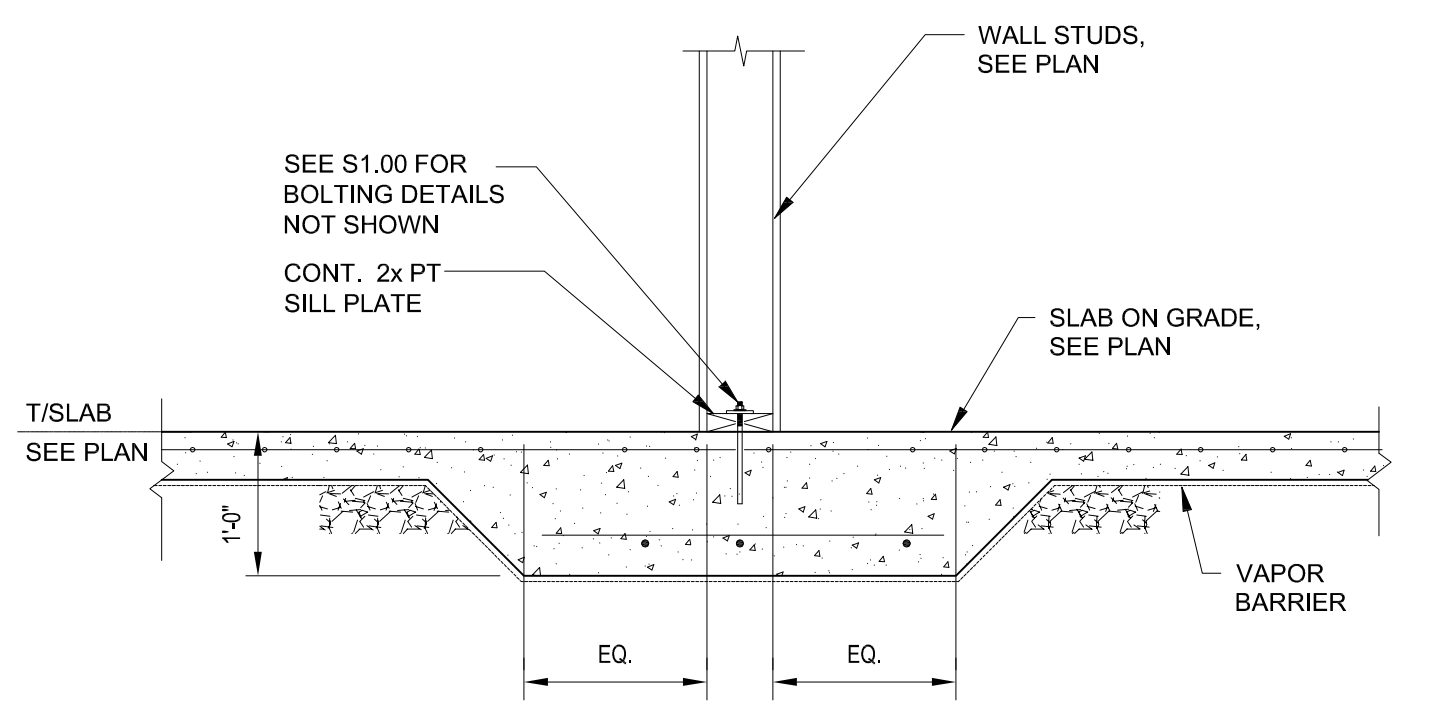
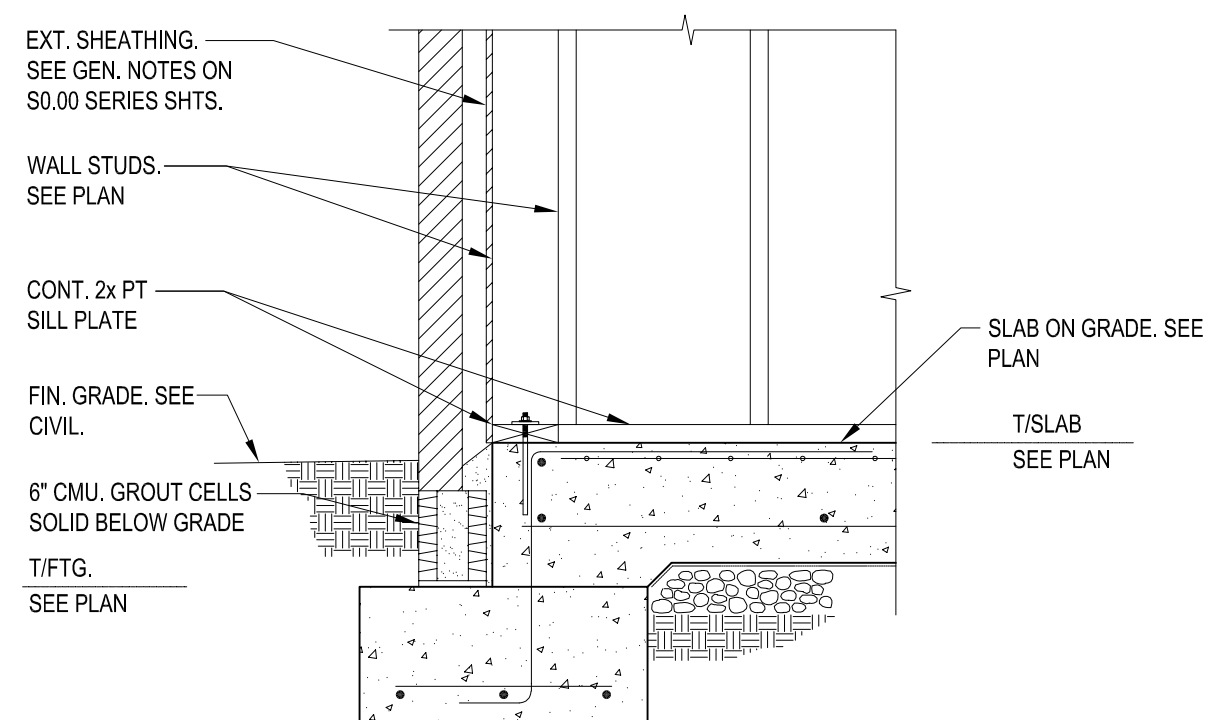
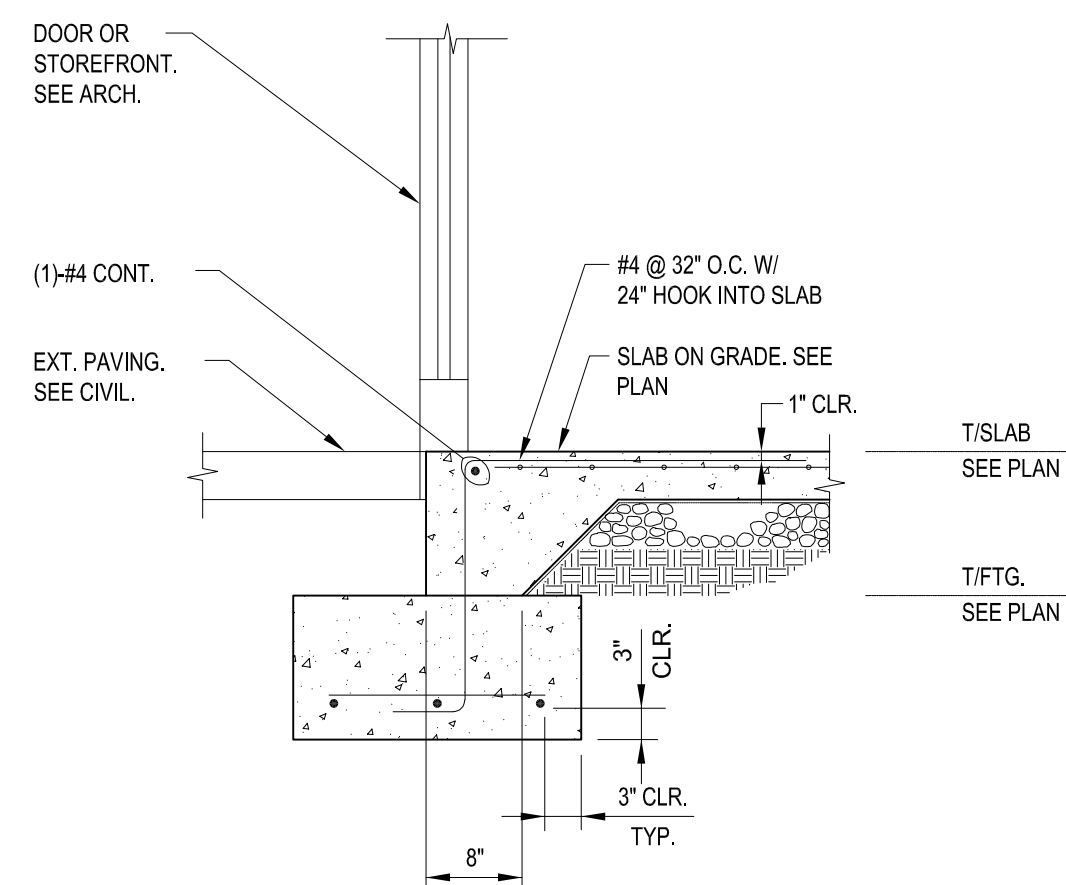
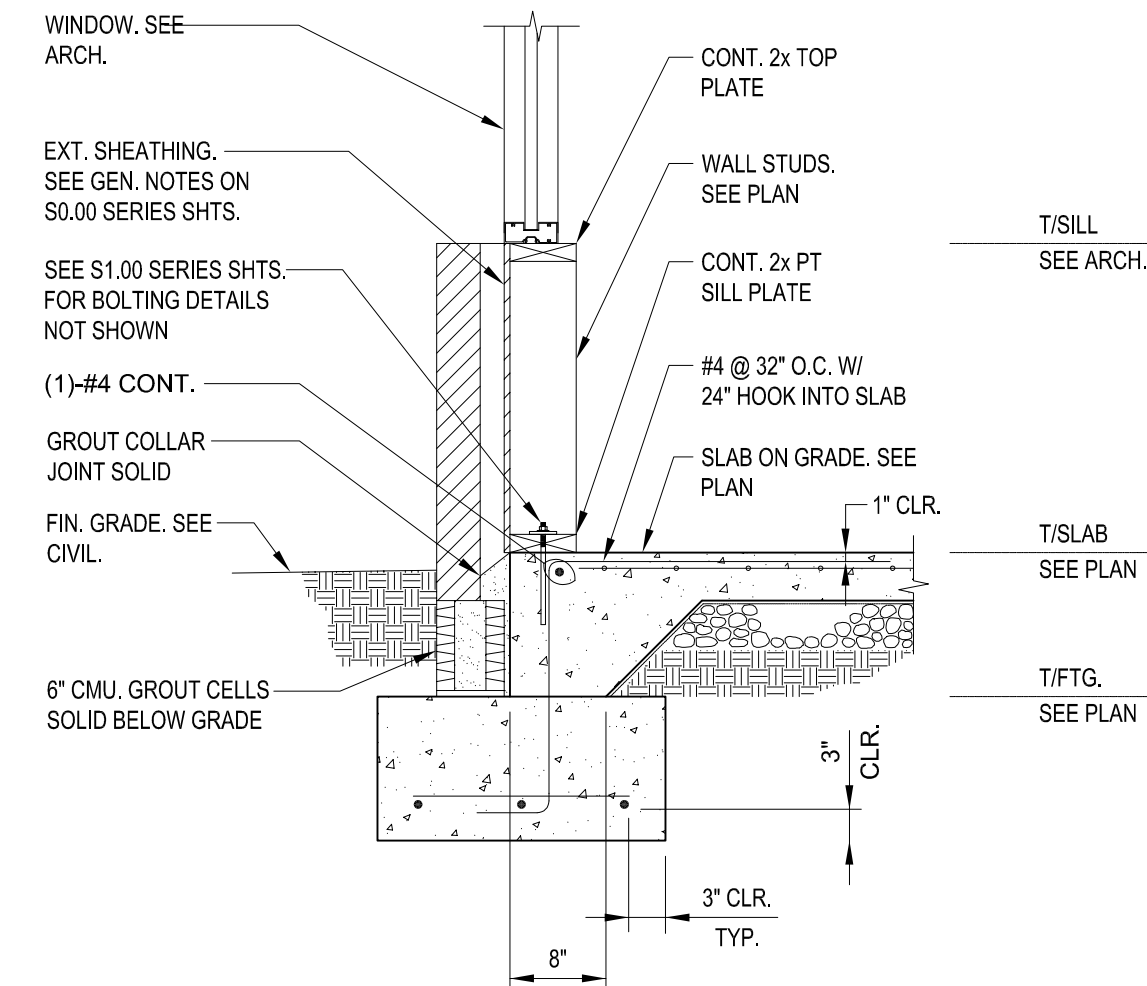
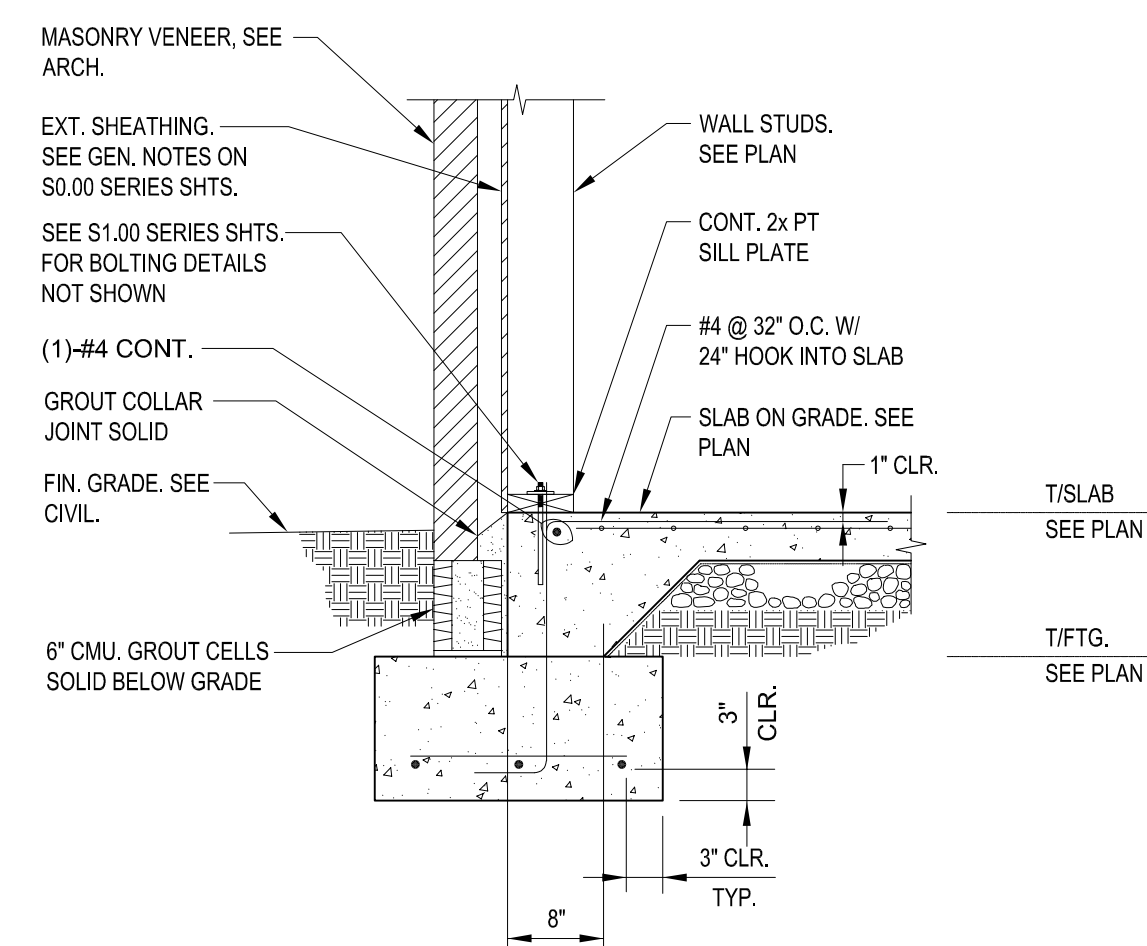
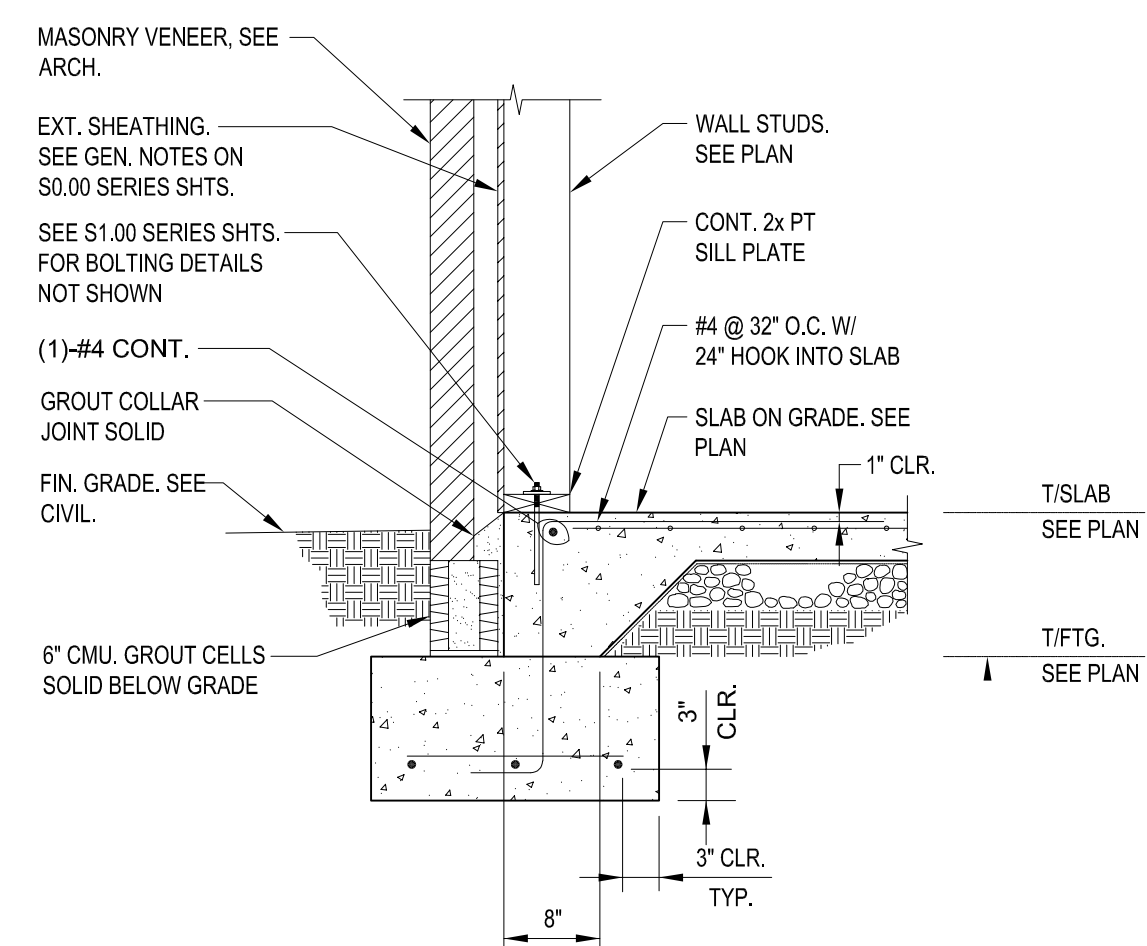
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PROJECT #: 22105
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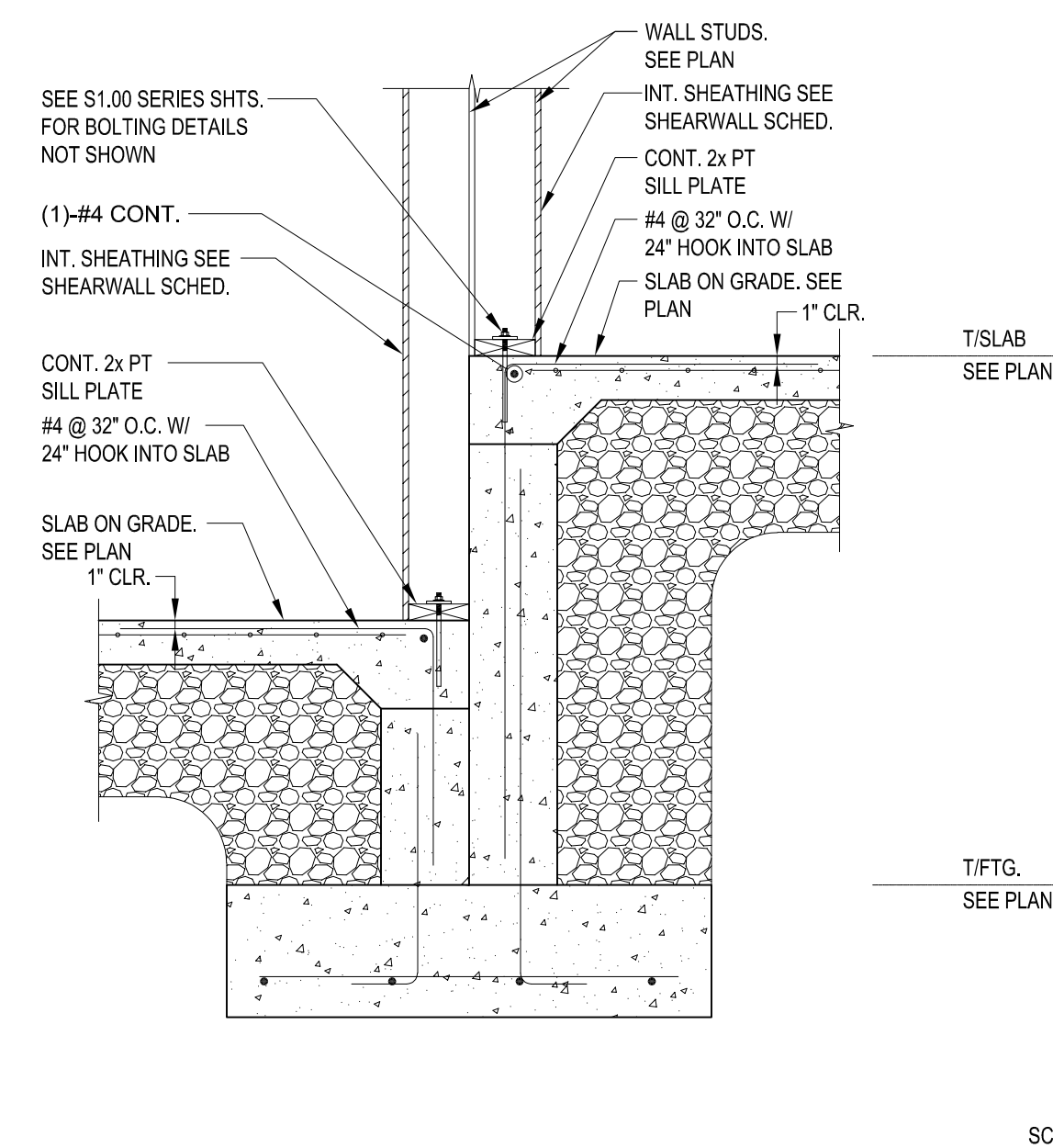
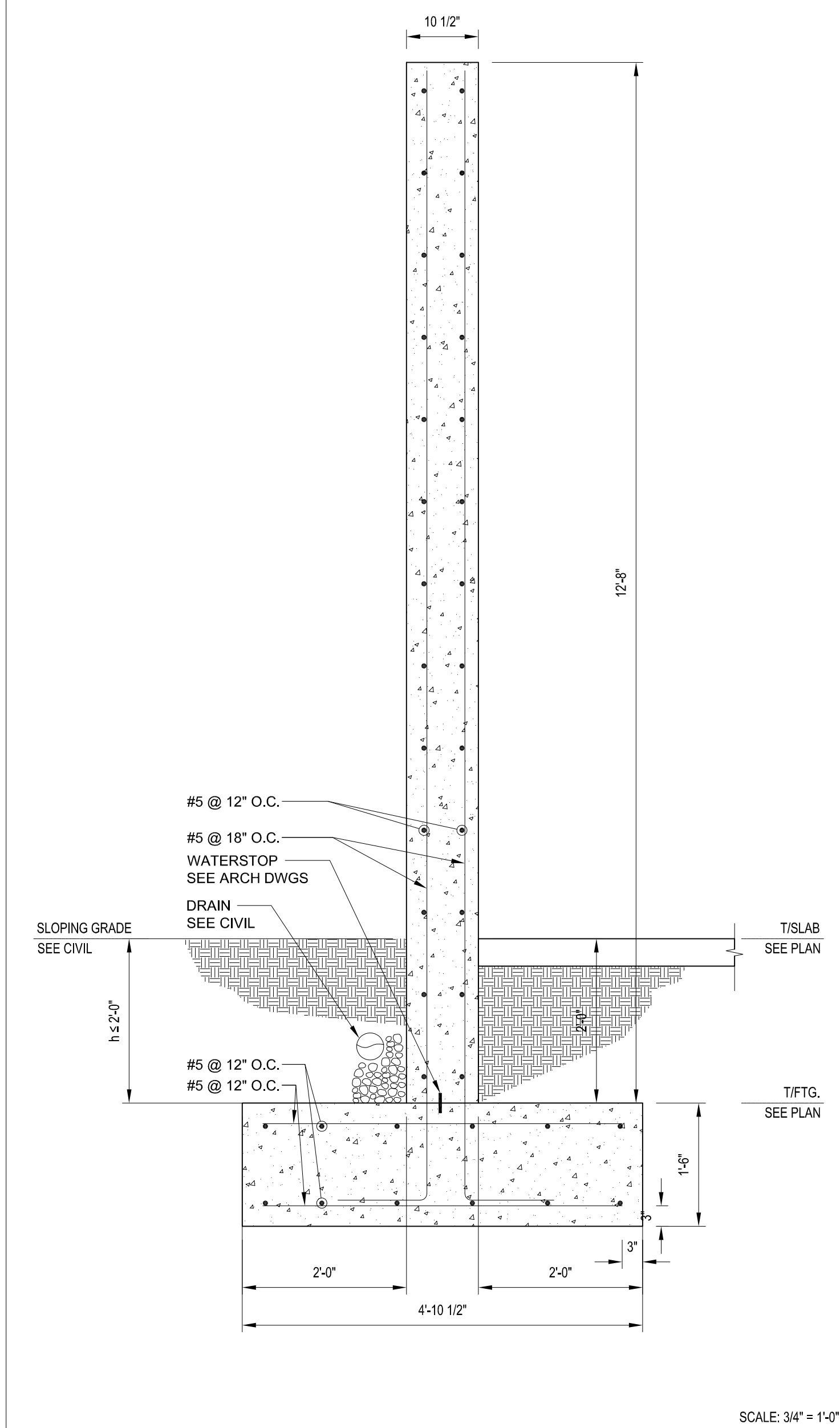
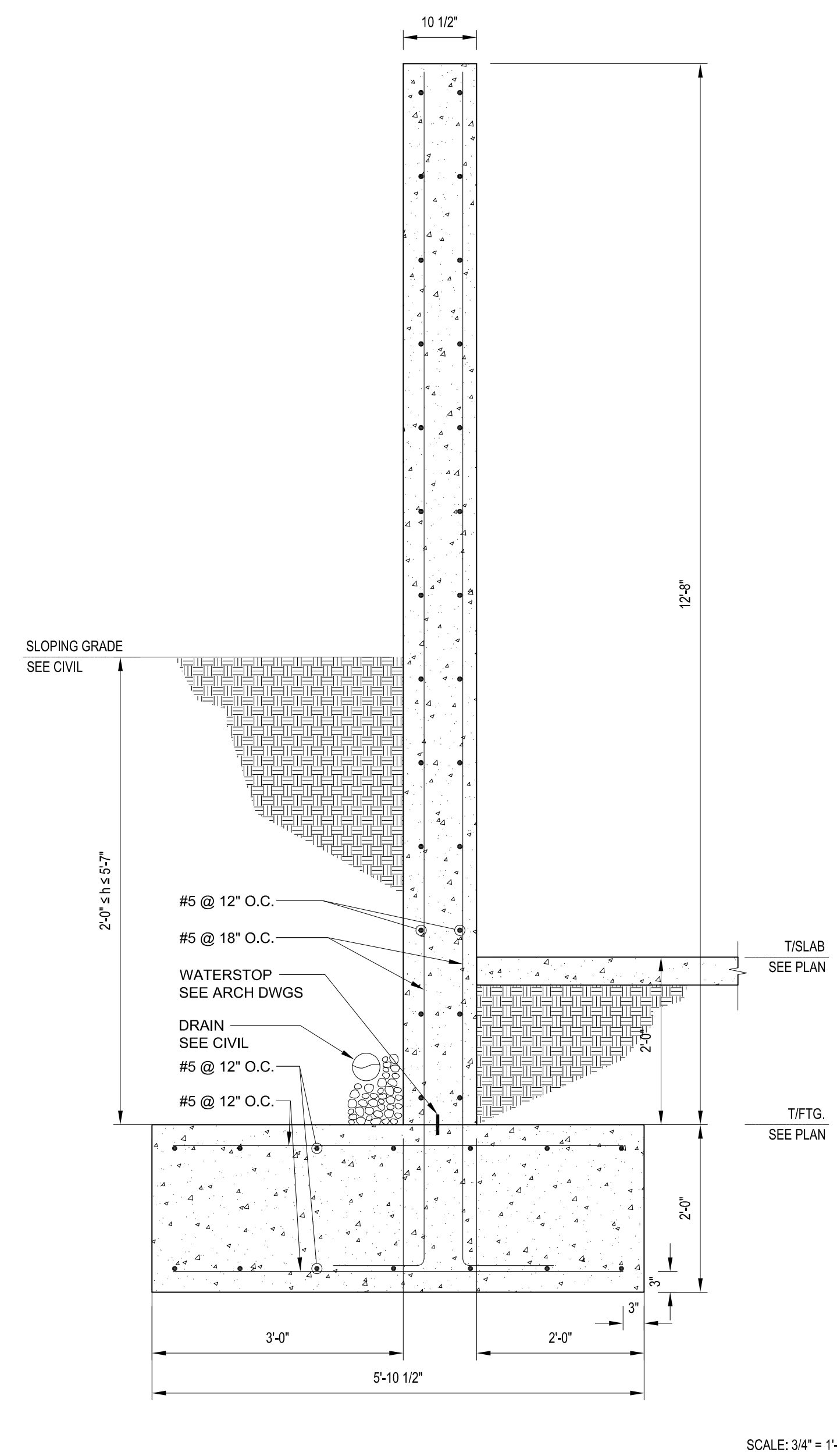
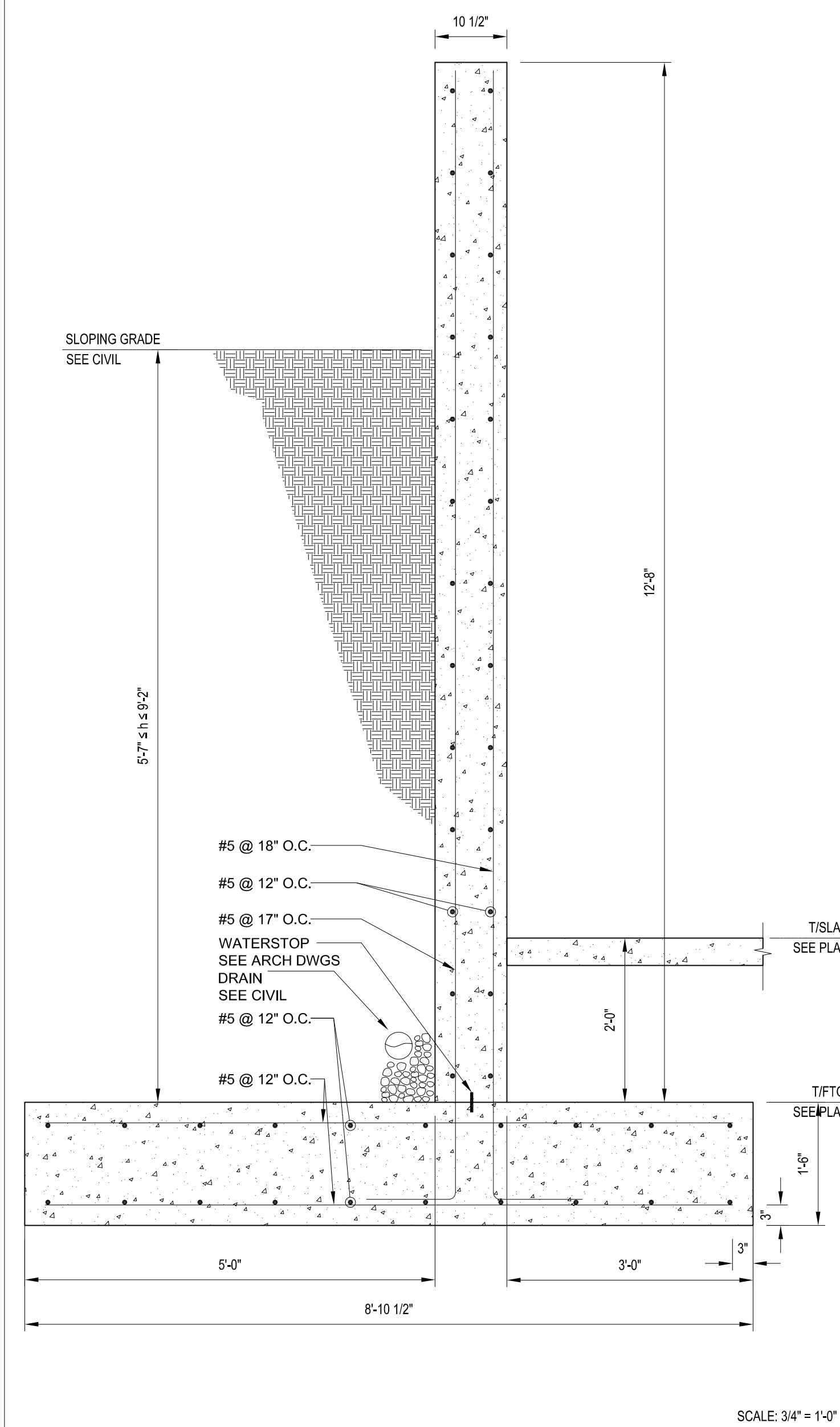
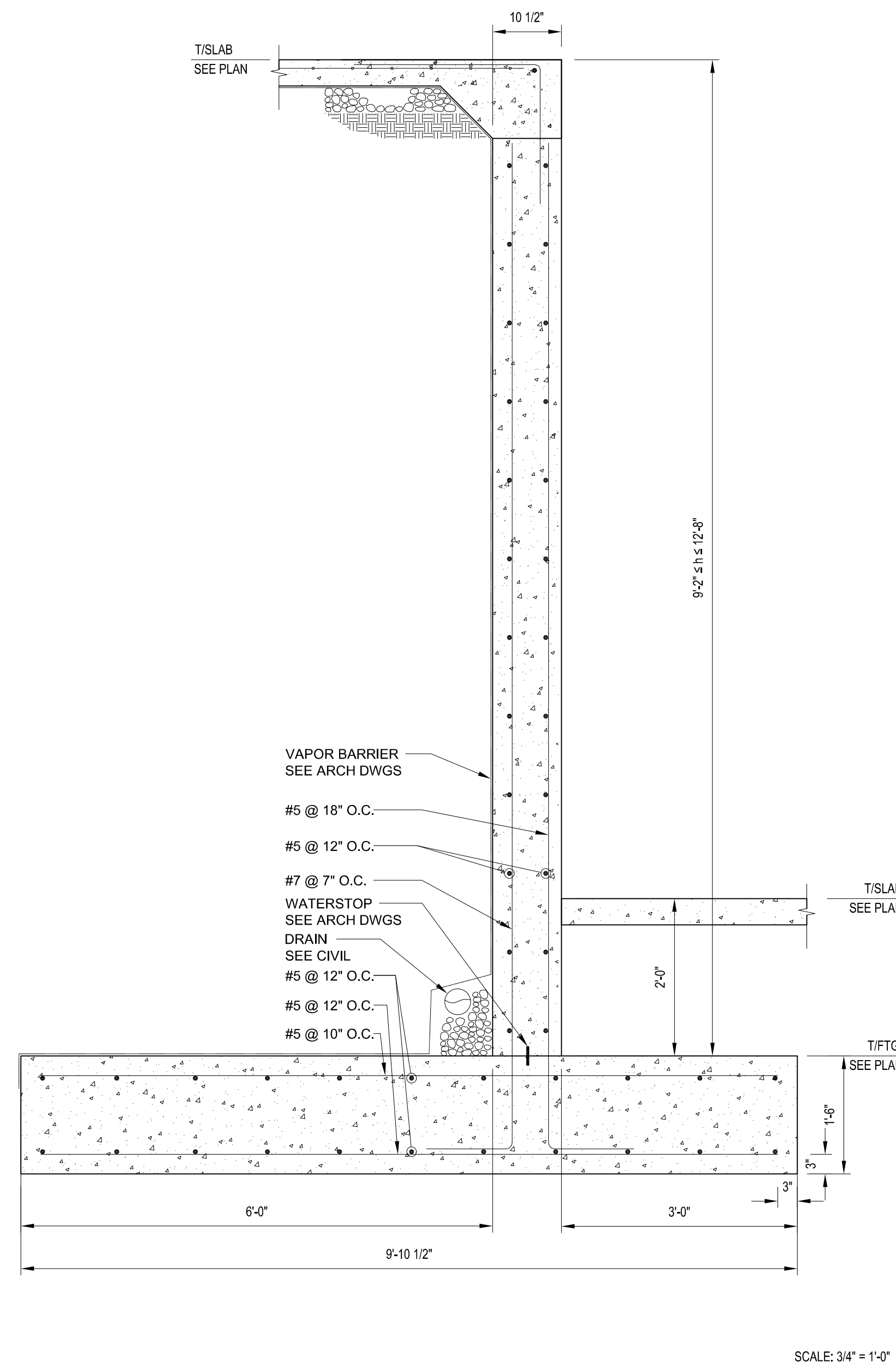
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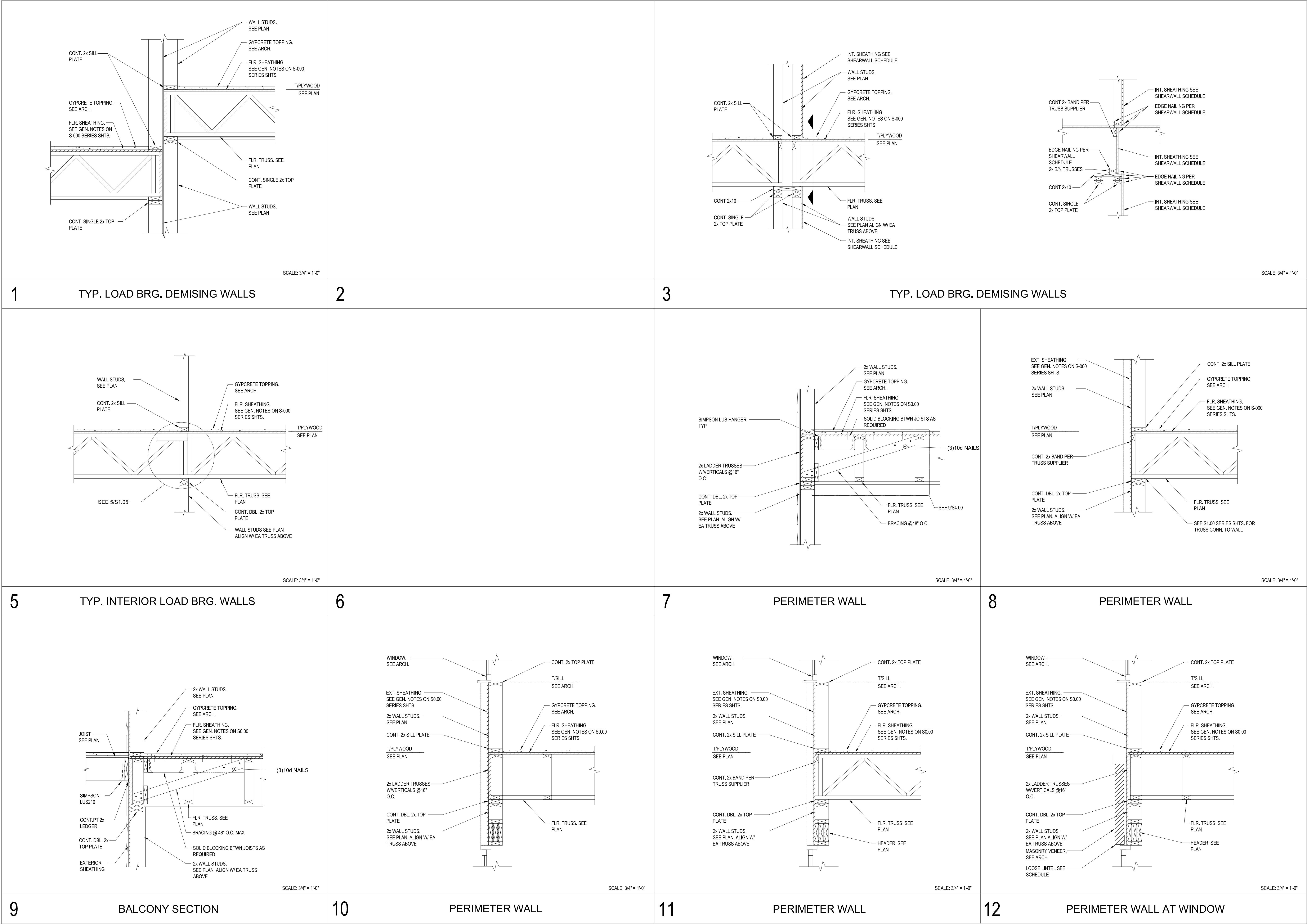
BUILDINGS 5 & 7 ROOF
FRAMING PLAN

SHEET #:

S-2.05

[illegible]





JDH
STRUCTURAL
ENGINEERS, PLLC

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

NC CERTIFICATE OF LICENSE # P-1593

SIGNATURE:

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

Orchards
PROPERTIES

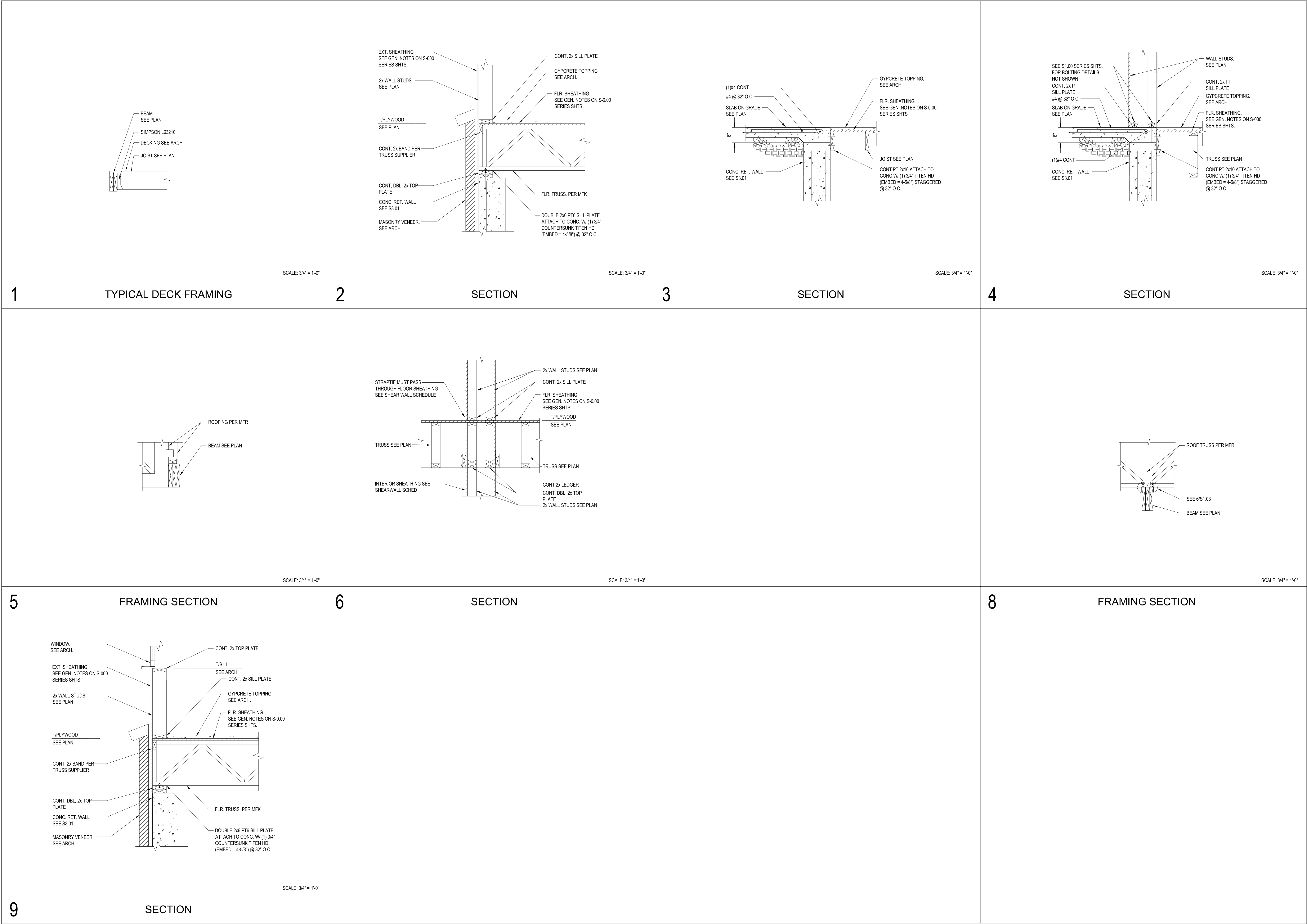
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION :
FLOOR FRAMING
SECTIONS

SHEET #:
S-4.00



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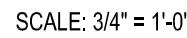
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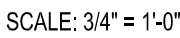
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ISSUE DATE: 09/27/24
PROJECT #: 22105
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CHECKED BY:

DWG DESCRIPTION :
FLOOR FRAMING
SECTIONS

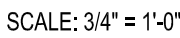
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S-4.01



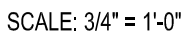
2 INTERIOR SHEAR WALL



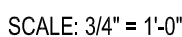
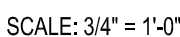
3 INTERIOR TRUSS BEARING



4 TRUSS BEARING ON BEAM

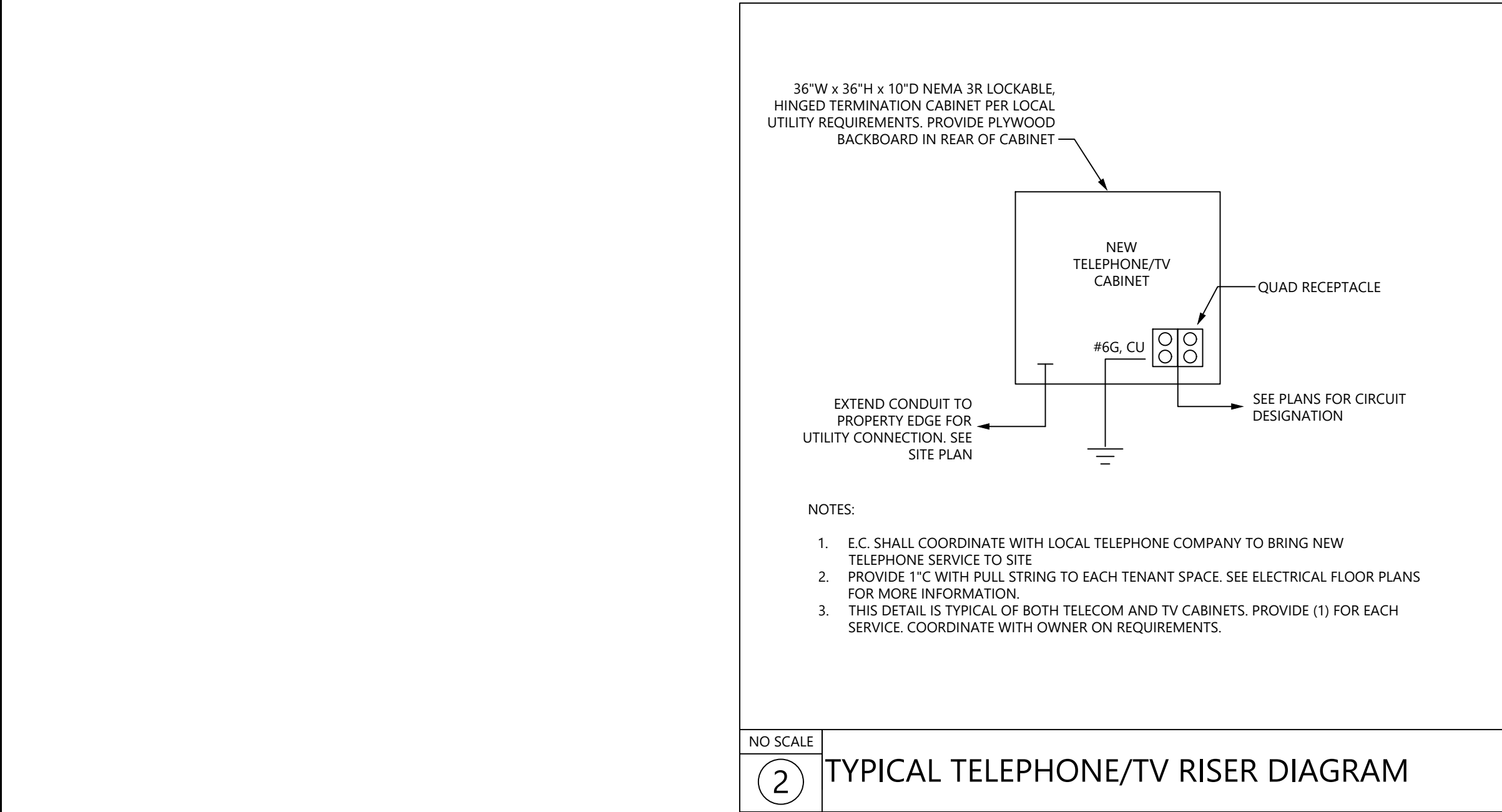
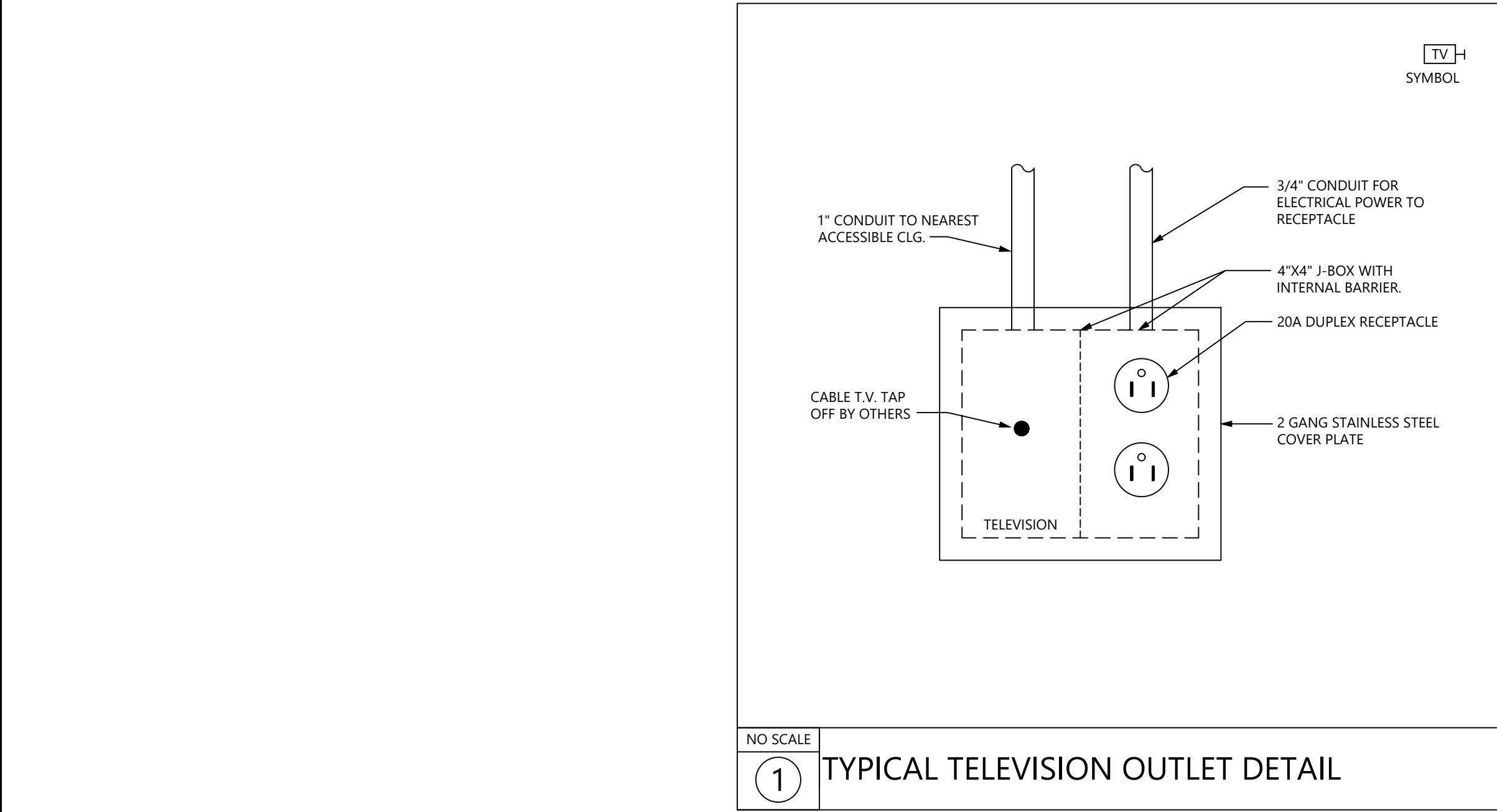


SCALE: 3/4" = 1'-0"



7 ROOF TRUSS SECTION

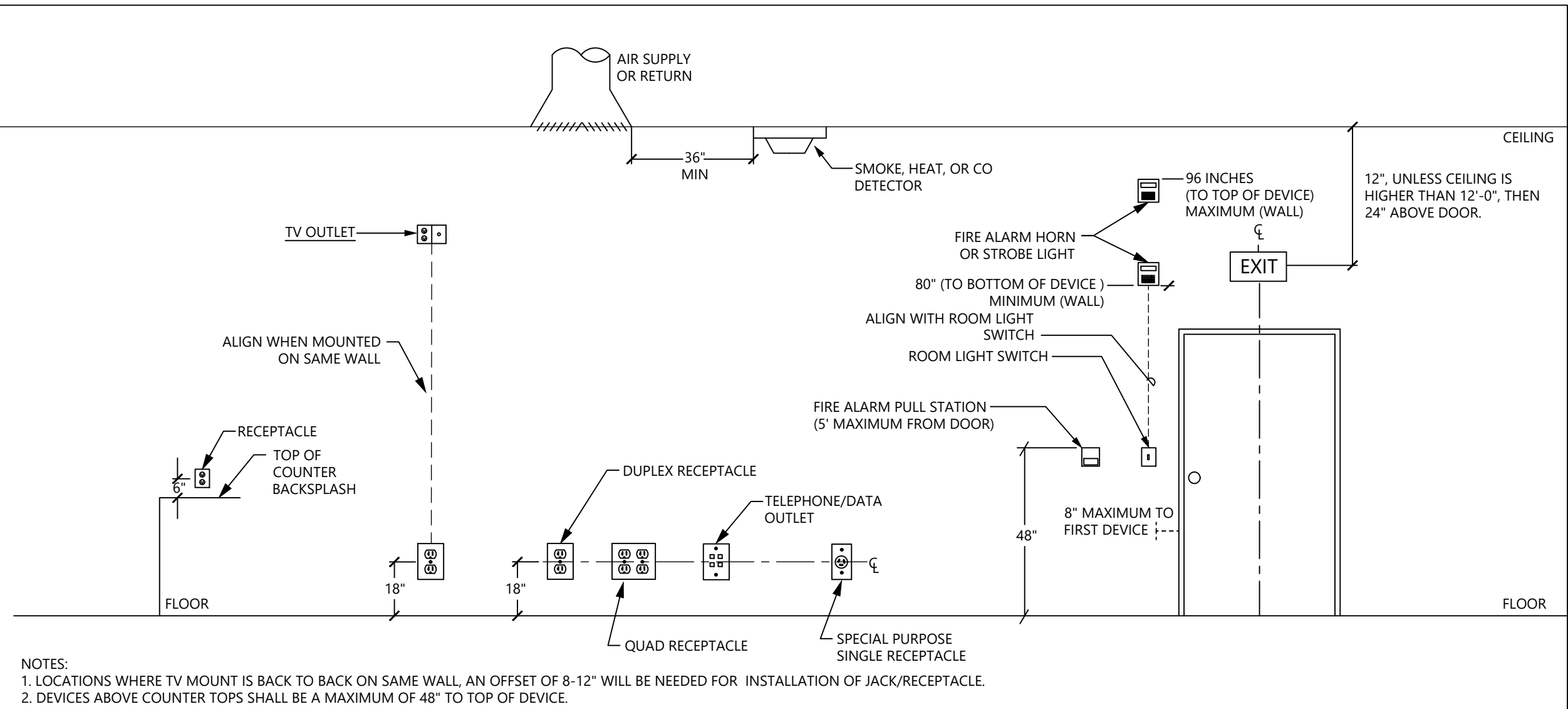
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LIGHT FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LUMENS	CCT	WATTS	DRIVER	VOLTAGE	MANUFACTURER	MODEL	REMARKS
A	6" ROUND SURFACE MOUNTED DOWNLIGHT	1,000	3000K	15W	INTEGRAL LED DRIVER	120V	PRESCOUTE	LBSD-RD	MATTE WHITE FINISH FIELD SELECTABLE LUMENS SWITCHABLE CCT
B	BREEZEWAY EXTERIOR WALL LIGHT	546	3000K	12.5W	INTEGRAL LED DRIVER	120V	LIGHTWAY	MENW-600-LED-F	VERIFY FINISH WITH ARCHITECT WET LOCATION LISTED
C	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.	WLF-COMBO	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY WET LOCATION LISTED RATED FOR OUTDOOR USE WHITE HOUSING, RED LETTERING
NOTES:									
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.								
4	FIXTURES IN FIRE RATED CEILING SHALL BE PROVIDED WITH FIRE RATED TENTS AS REQUIRED.								
5	SUSPEND ALL FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.								
6	FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SUPPLIED WITH 1100 LUMEN INVERTERS.								
7	PROVIDE INTEGRAL SURGE PROTECTION ON ALL EXTERIOR LED DRIVER FIXTURE TYPES.								
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 RESPONSIBILITY 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.								
15	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 EQUAL.								
16	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 UNDERGROUND.
	CIRCUIT HOMERUN TO PANEL CALLED OUT ON PLANS. EACH ARROWHEAD REPRESENTS (1) CIRCUIT.
	DUPLEX RECEPTACLE MOUNTED 18" AFF UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR TYPE AND EQUALS.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER OR AT HEIGHT NOTED. MOUNT 48" TO CENTER OF DEVICE IF NO HEIGHT NOTED AND/OR NOT SHOWN AT A COUNTER TOP.
	QUAD RECEPTACLE, (2) 5-20R DUPLEX RECEPTACLES.
	QUAD RECEPTACLE FOR ELECTRIC WATER COOLER. EXACT LOCATION SHALL BE COORDINATED WITH PLUMBING CONTRACTOR. PROVIDE CIRCUIT WITH GFI (CLASS-A 6mA, PERSONNEL) BREAKER.
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R.
	DUPLEX RECEPTACLE WITH GFI AT BREAKER. NEMA 5-20R. REFER TO PANEL SCHEDULES.
	WEATHERPROOF AND GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. COVER BASED ON INTERMATIC #WP1020 (CLEAR).
	JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE.
	WALL MOUNTED JUNCTION BOX. 4" SQUARE BOX WITH SINGLE GANG OPENING AND PLASTER RING, UNLESS NOTED OTHERWISE. BOX SHALL BE RECESSED IN WALL WITH NOT EXPOSED CONDUIT, UNLESS NOTED OTHERWISE.
	SPECIAL RECEPTACLE; SEE PLANS FOR TYPE.
	TV POWER AND DATA CONNECTION, SEE DETAIL. MOUNT 72" AFF UNLESS NOTED OTHERWISE.
	SIX GANG FLUSH MOUNTED FLOOR BOX WITH ACCESSIBLE COVER FOR POWER AND COMMUNICATIONS. PROVIDE FIVE NEMA 5-20R DUPLEX RECEPTACLES AND ONE COMM. PLATE WITH PROVISION FOR SIX RJ45 CAT6 JACKS. EQUAL TO WIREMOLD RB66-OG-8CT. ARCHITECT TO SELECT FINISH. STUB FROM BOX ONE CONCEALED 1 1/4" ROUTED TO WHICHEVER IS NEAREST BB, J-HOOKS, OR CABLE TRAY. EQUALS: HUBBELL, THOMAS & BETTS, OR SPECIFICATION EQUAL.

LIGHTING	
	LED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
	LED STRIP FIXTURE.
	LED LIGHTING FIXTURE.
	WALL MOUNTED 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 BACKUP. SEE LIGHTING FIXTURE SCHEDULE.
	EXTERIOR EMERGENCY FIXTURE WITH EMERGENCY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
	EMERGENCY BUGEYE FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
	EMERGENCY BUGEYE FIXTURE/EXIT SIGN COMBO FIXTURE. PROVIDE BATTERY BACKUP RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE.
	SINGLE POLE SWITCH. 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	THREE WAY SWITCH. 20 AMP, 120/277 VOLT, COOPER, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
	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.



NO SCALE
3

MOUNTING HEIGHTS OF DEVICES - ELEVATION

LOW VOLTAGE (PATHWAYS ONLY)	
	TELE/DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
	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.
FIRE ALARM	
	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR
	FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE BOX AS REQUIRED PER MANUFACTURER RECOMMENDATION. PROVIDE 1" C CONDUIT FOR CABLING.
	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.
	CEILING MOUNTED SMOKE DETECTOR. FA VENDOR PROVIDED.
	CEILING MOUNTED HEAT DETECTOR.
	CEILING MOUNTED CARBON MONOXIDE DETECTOR.
	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.
	DETECTOR WITH SOUNDER BASE (SB).
	MULTI-CRITERIA DETECTOR (SMOKE/CO/HEAT).
	ADA COMPLIANT WALL MOUNT FIRE ALARM HORN WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
	ADA COMPLIANT WALL MOUNT FIRE ALARM STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM HORN STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH WITH RED LETTERING.
ELECTRICAL EQUIPMENT	
	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
	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.
	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.

2018 NORTH CAROLINA ENERGY CONSERVATION CODE	
COMMERCIAL ENERGY EFFICIENCY - ELECTRICAL SUMMARY	
C401 METHOD OF COMPLIANCE <input checked="" type="checkbox"/> 2018 NCECC CHAPTER 4 <input type="checkbox"/> N/A BASED ON PROJECT SCOPE <input type="checkbox"/> NC SPECIFIC COMCHECK PROVIDED <input type="checkbox"/> ASHRAE 90.1-2013	
C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS <input type="checkbox"/> C406.1.1 EFFICIENT MECH EQUIPMENT <input checked="" type="checkbox"/> C406.1.2 REDUCED LTG DENSITY <input type="checkbox"/> C406.1.3 ENHANCED DIGITAL LTG CNTLS <input type="checkbox"/> NOT APPLICABLE BASED ON PROJECT SCOPE <input type="checkbox"/> C406.1.4 ON-SITE RENEWABLE ENERGY <input type="checkbox"/> C406.1.5 DEDICATED OA SYSTEM <input type="checkbox"/> C406.1.6 HI-EFF SERVICE WTR HTG	
C408 - SYSTEM COMMISSIONING: <input type="checkbox"/> BUILDING IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408. <input checked="" type="checkbox"/> BUILDING IS GREATER THAN 10,000 SQUARE FEET AND REQUIRES SYSTEM COMMISSIONING PER SECTION C408.	
C405.2 - LIGHTING CONTROLS (MANDATORY REQUIREMENTS): <input checked="" type="checkbox"/> LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION C405.2, EXCEPT WHERE EXEMPT. <input type="checkbox"/> NOT APPLICABLE	
C405.3 - EXIT SIGNS (MANDATORY REQUIREMENTS): <input checked="" type="checkbox"/> INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE. <input type="checkbox"/> NOT APPLICABLE	
C405.4 - INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT): <input type="checkbox"/> NOT APPLICABLE PER 2018 NCECC C503.1, EXCEPTION 2.G. C405.4.1 - TOTAL <u>CONNECTED</u> INTERIOR LIGHTING POWER: 12,410 WATTS SPECIFIED 25 % REDUCTION OF SPECIFIED VS. ALLOWED (APPLICABLE IF C406.1.2 IS SELECTED) C405.4.2 - TOTAL <u>ALLOWABLE</u> INTERIOR LIGHTING POWER: METHOD OF COMPLIANCE: <input checked="" type="checkbox"/> BUILDING AREA METHOD <input type="checkbox"/> SPACE-BY-SPACE METHOD 16,468 WATTS ALLOWED	
C405.5.1 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT): <input type="checkbox"/> NOT APPLICABLE TOTAL <u>CONNECTED</u> EXTERIOR LIGHTING POWER: 970 WATTS SPECIFIED TOTAL <u>ALLOWABLE</u> EXTERIOR LIGHTING POWER: 2,110 WATTS ALLOWED	
C405.6 - ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS): <input type="checkbox"/> SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP R-2 BUILDINGS. <input checked="" type="checkbox"/> NOT APPLICABLE	
C405.7 - ELECTRICAL TRANSFORMERS (MANDATORY REQUIREMENTS): <input type="checkbox"/> ELECTRICAL TRANSFORMERS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.7, EXCEPT WHERE EXEMPT. <input checked="" type="checkbox"/> NOT APPLICABLE	
C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS): <input checked="" type="checkbox"/> ELECTRICAL MOTORS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.8, EXCEPT WHERE EXEMPT. <input type="checkbox"/> NOT APPLICABLE	

ABBREVIATIONS	
+42"	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO MOUNTED. SEE PLANS.
3R	NEMA 3R
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLER UNIT
C.B.	CIRCUIT BREAKER
EC	EMPTY CONDUIT WITH PULL CORD
E.C.	ELECTRICAL CONTRACTOR
EWC	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
FACP	FIRE ALARM CONTROL PANEL
FPN	FUSE PER NAMEPLATE
LC	LIGHTING CONTACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
U.G.	UNDERGROUND
WP	WEATHERPROOF
S.E.	SERVICE ENTRANCE
EM	EMERGENCY FIXTURE WITH BATTERY OR GEN. BACK-UP
ER	EXISTING ITEM RELOCATED TO THIS LOCATION.
RL	EXISTING ITEM TO BE RELOCATED.
RM	EXISTING ITEM TO REMAIN.
RP	EXISTING ITEM TO BE REPLACED.
RV	EXISTING ITEM TO BE REMOVED.
Isc	RMS SYMMETRICAL SHORT CIRCUIT CURRENT
AIC	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 FTO 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.	

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MECHANICAL, ELECTRICAL & PLUMBING

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Hendersonville, NC
(704) 439-7038
NC Firm License No. P-2182

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NOT FOR CONSTRUCTION

CLIENT:

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

PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:

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

DWG DESCRIPTION:

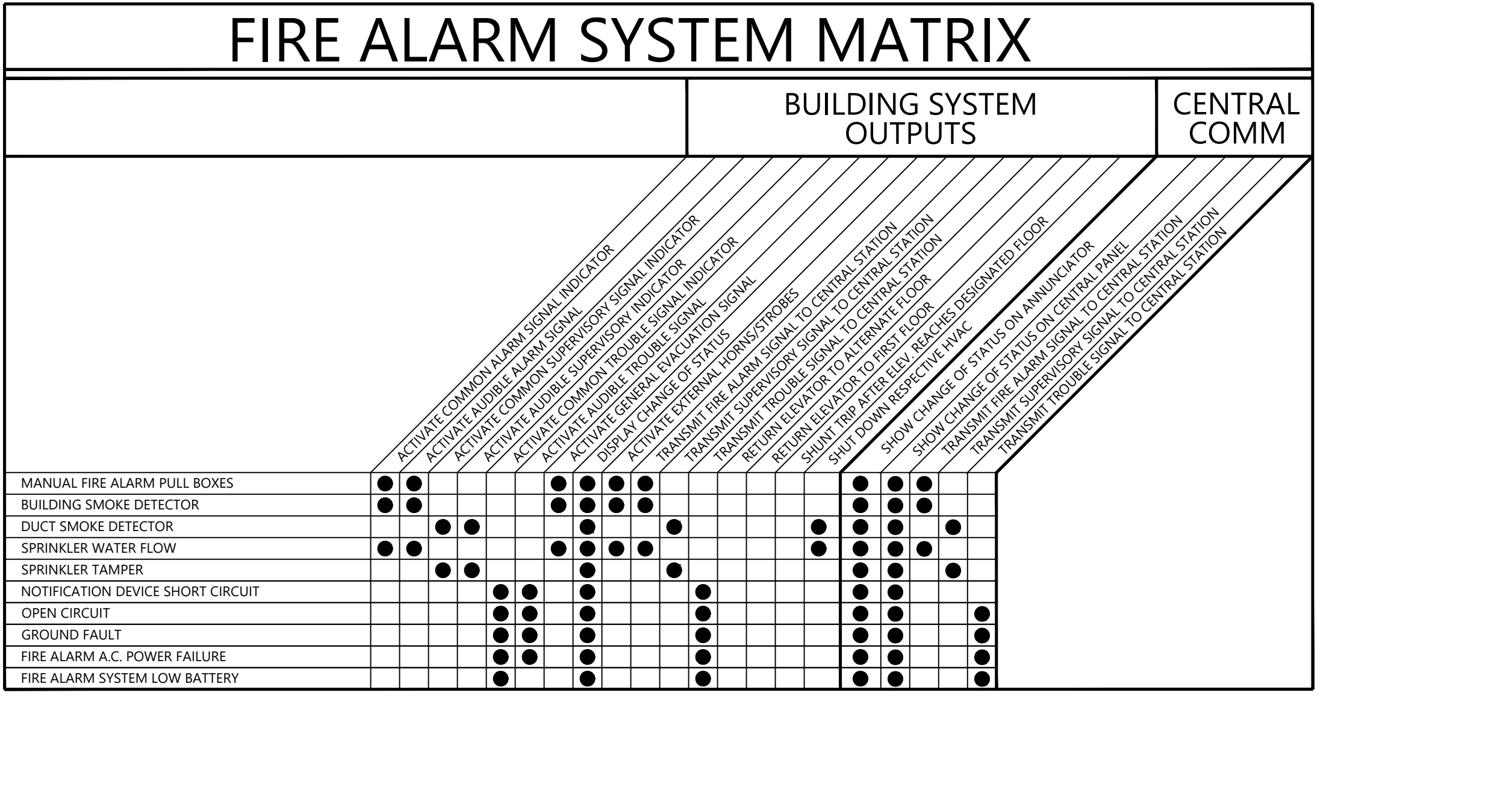
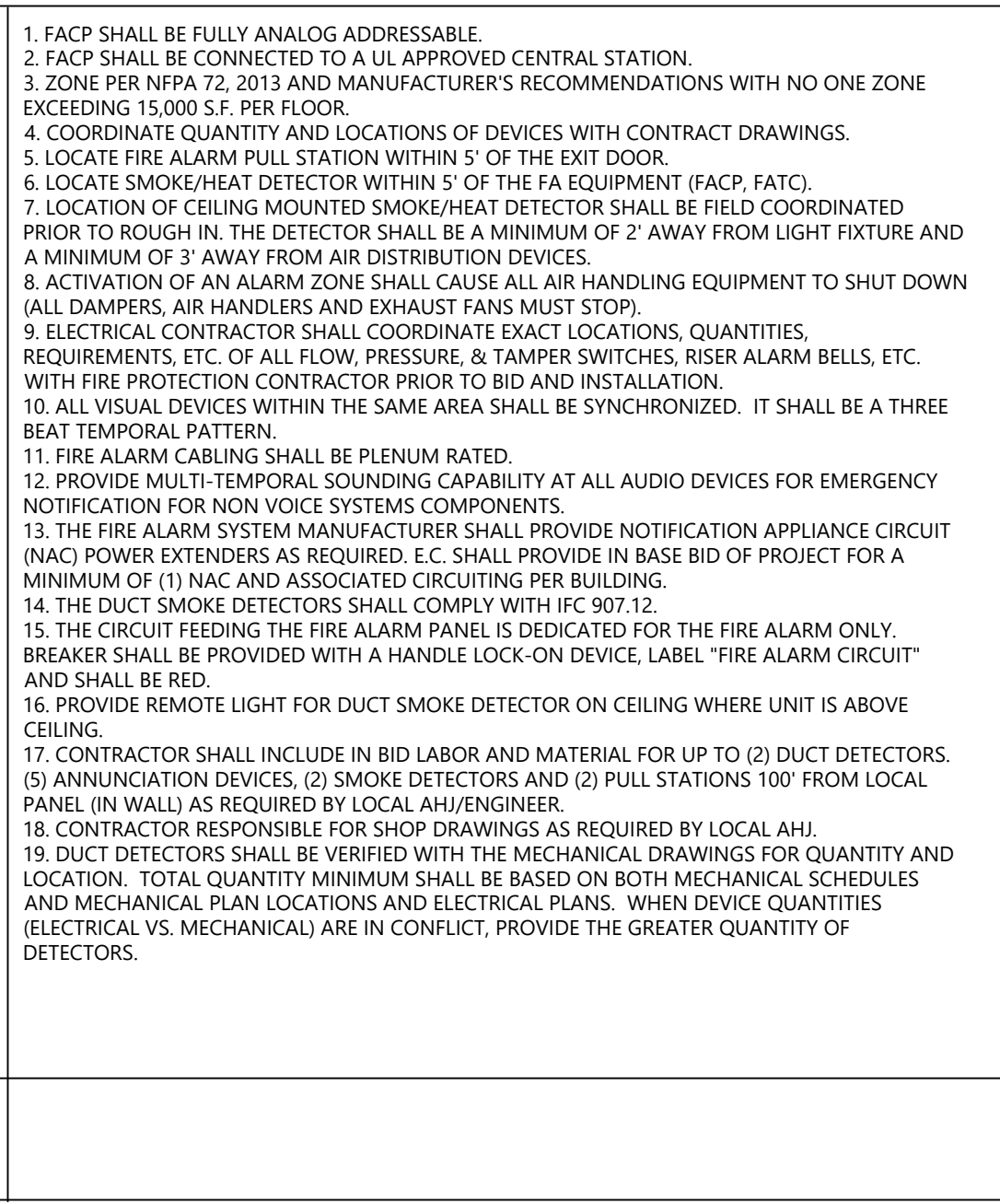
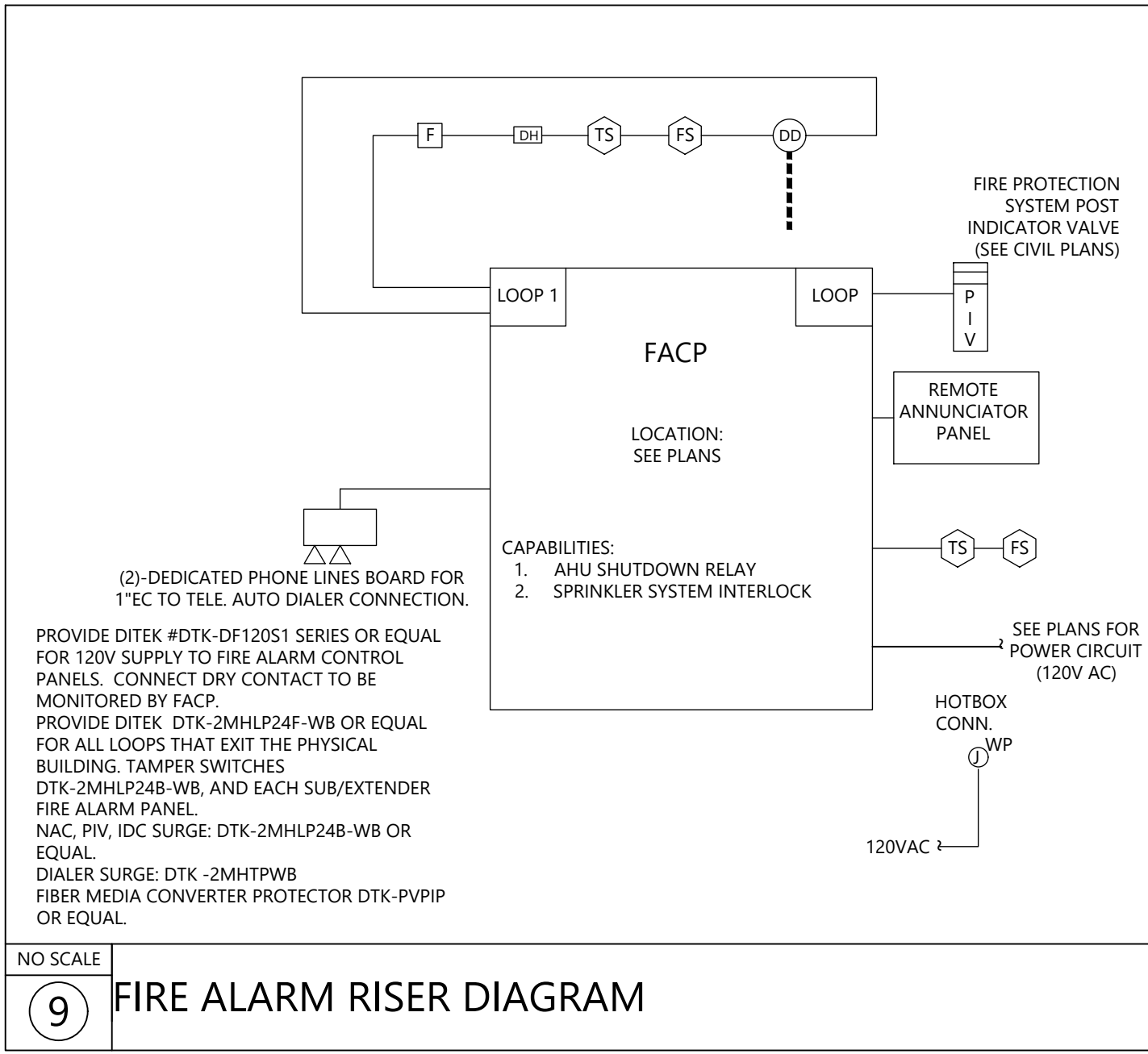
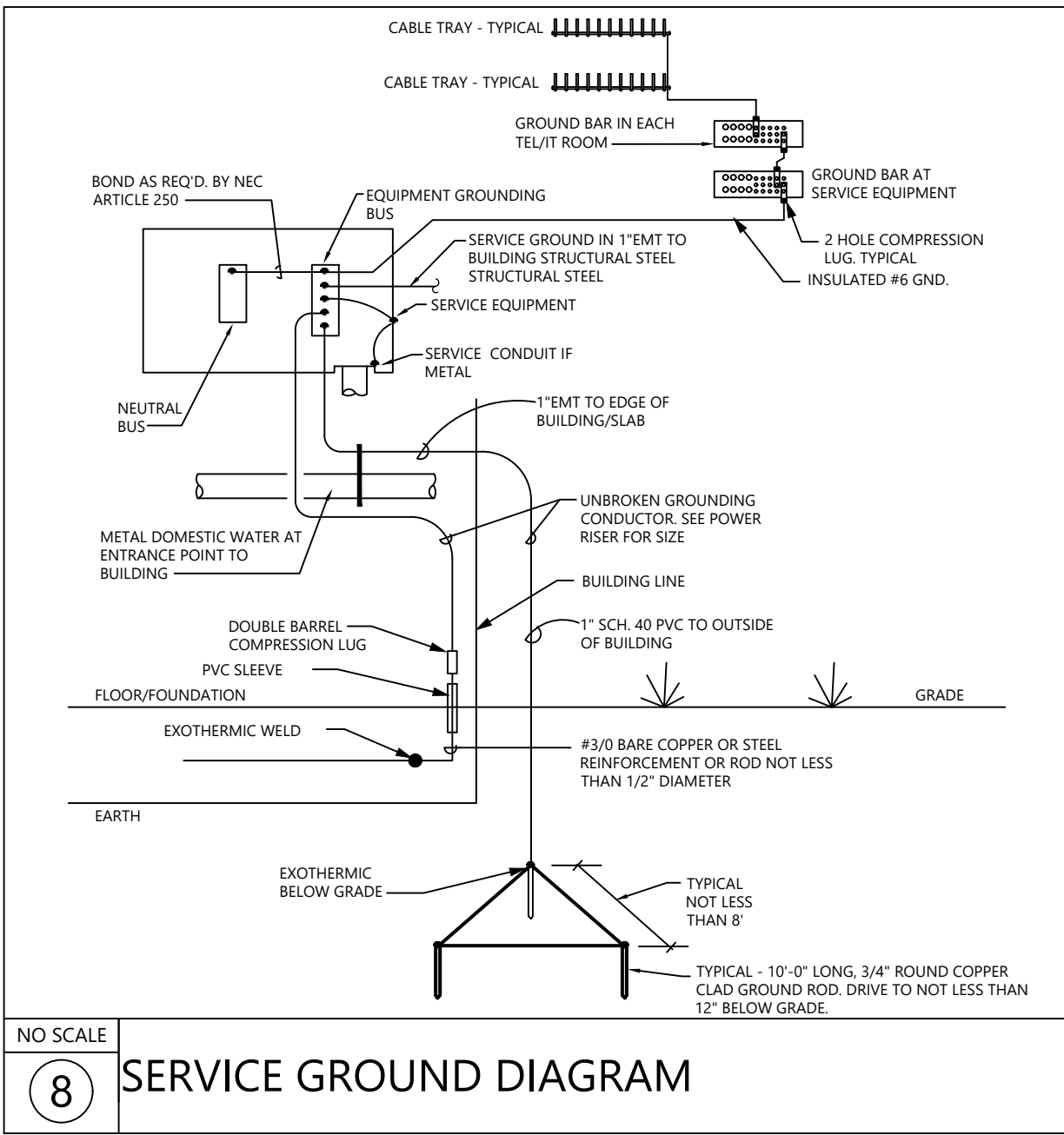
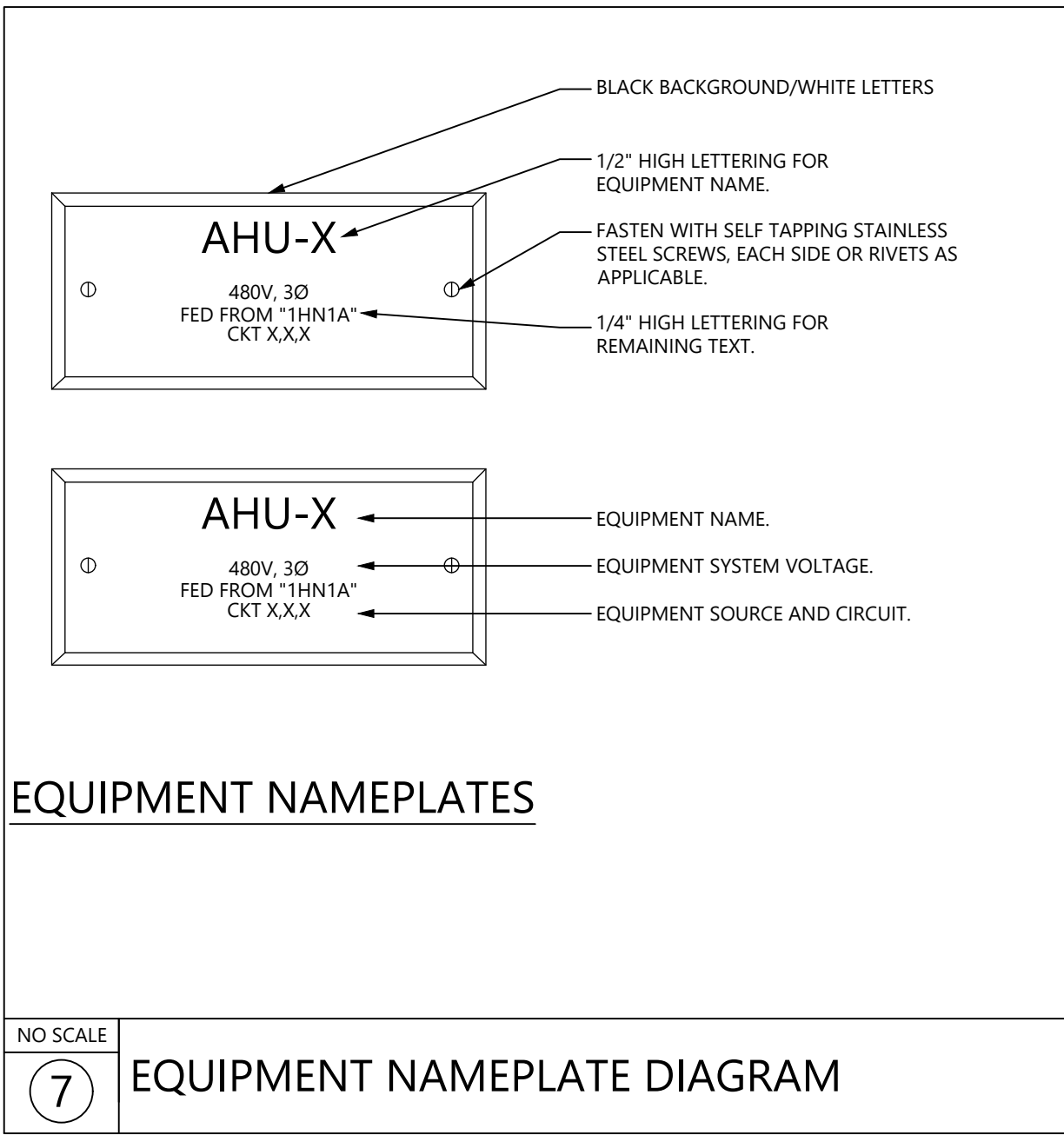
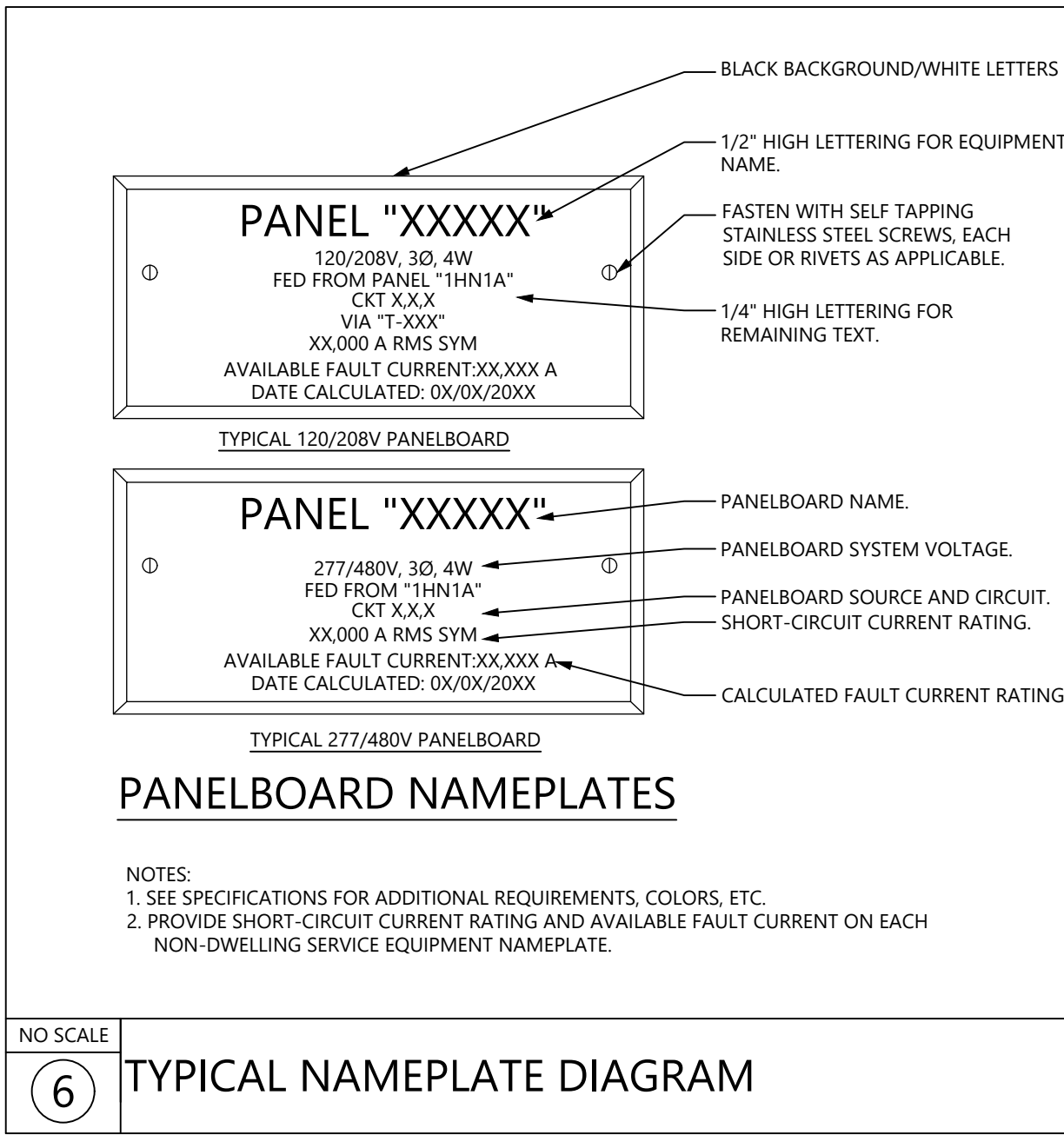
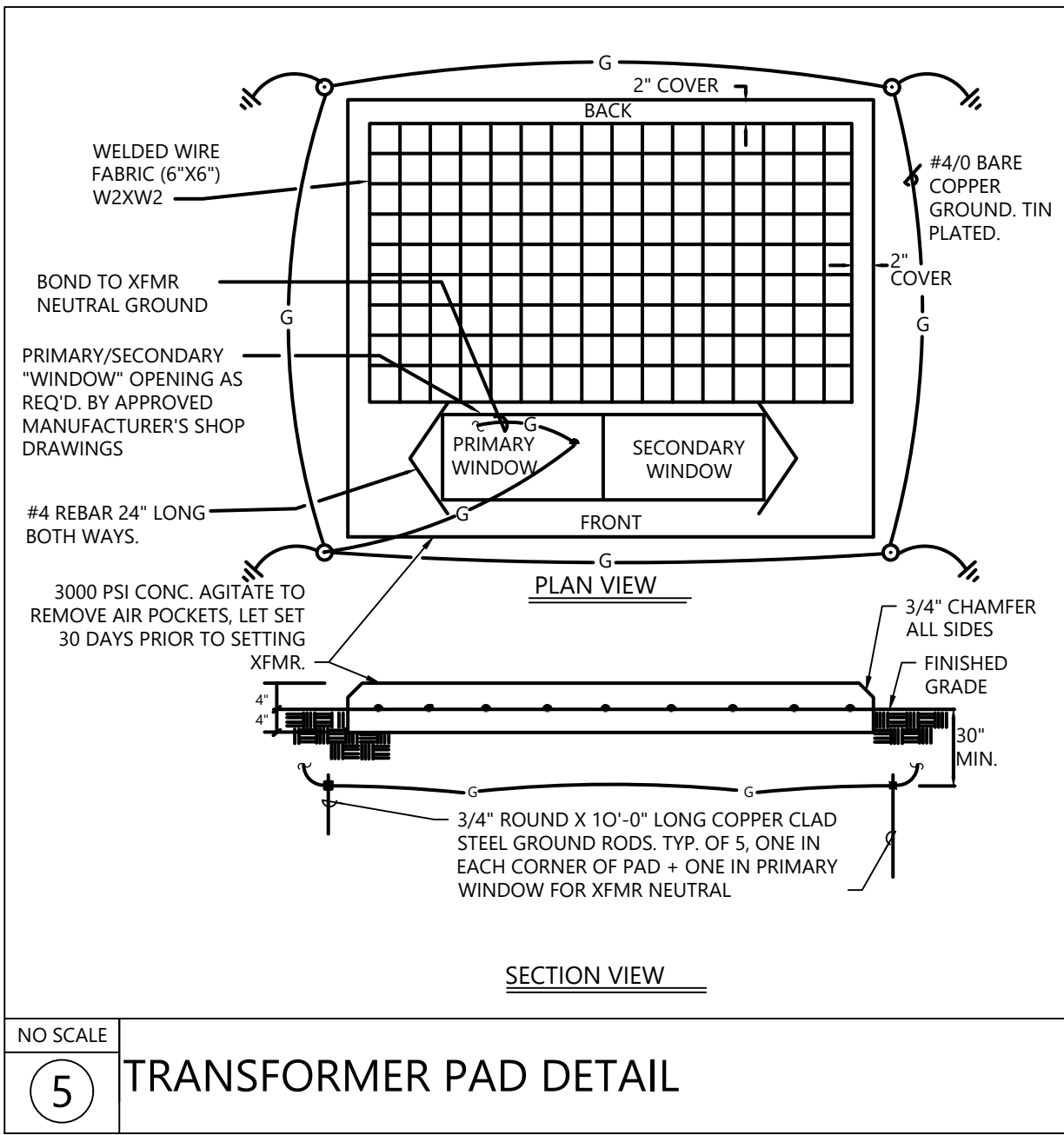
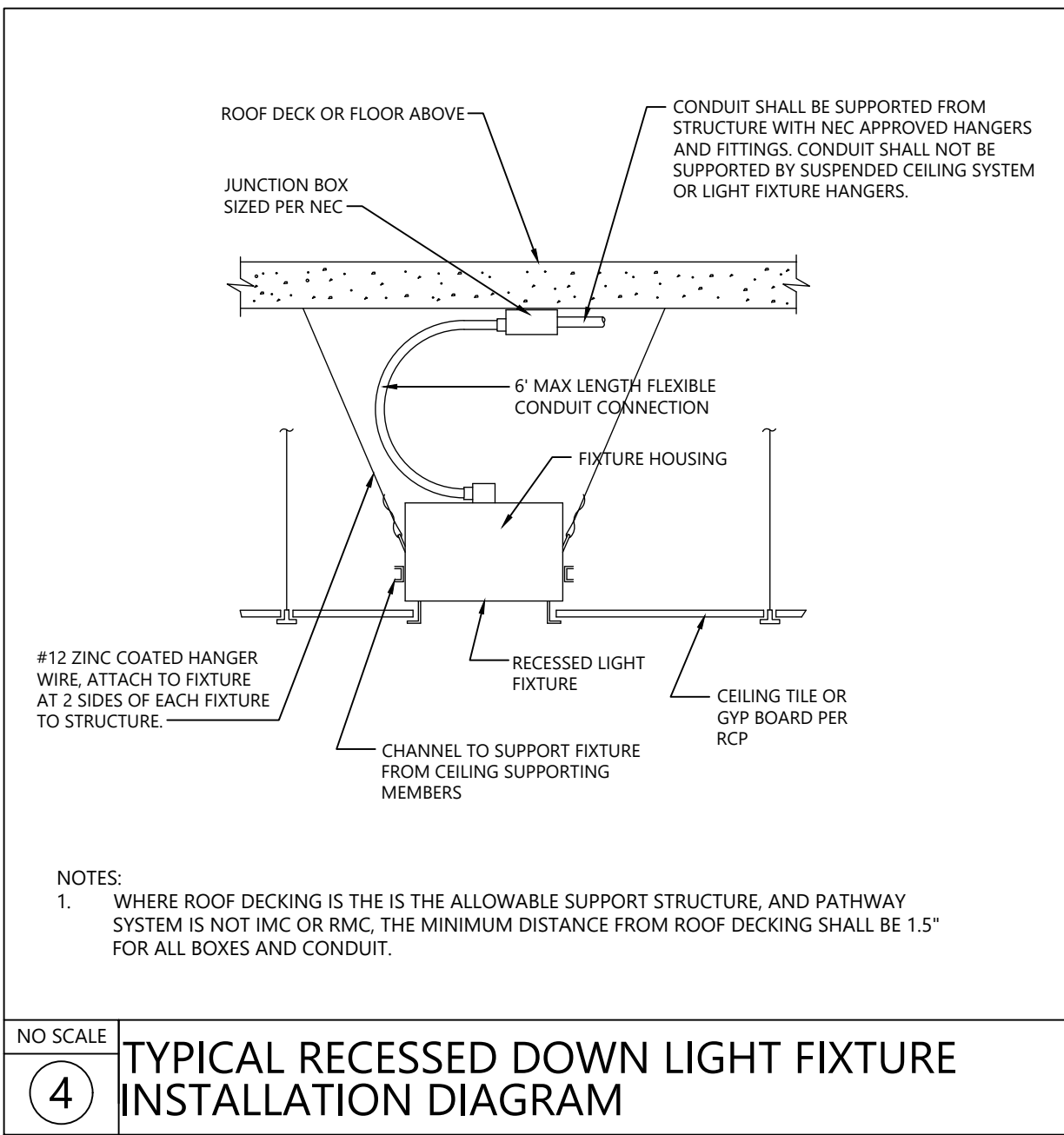
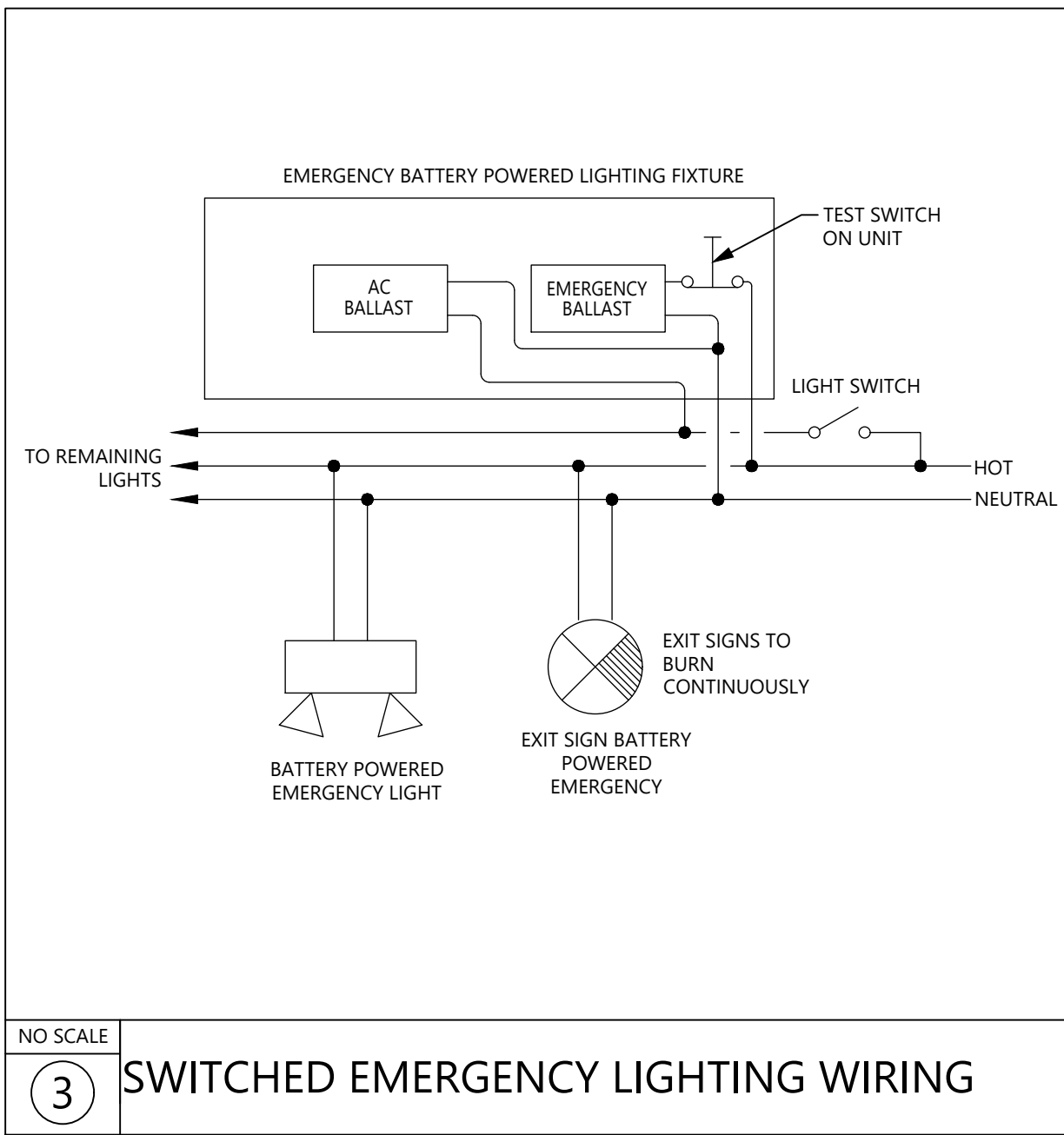
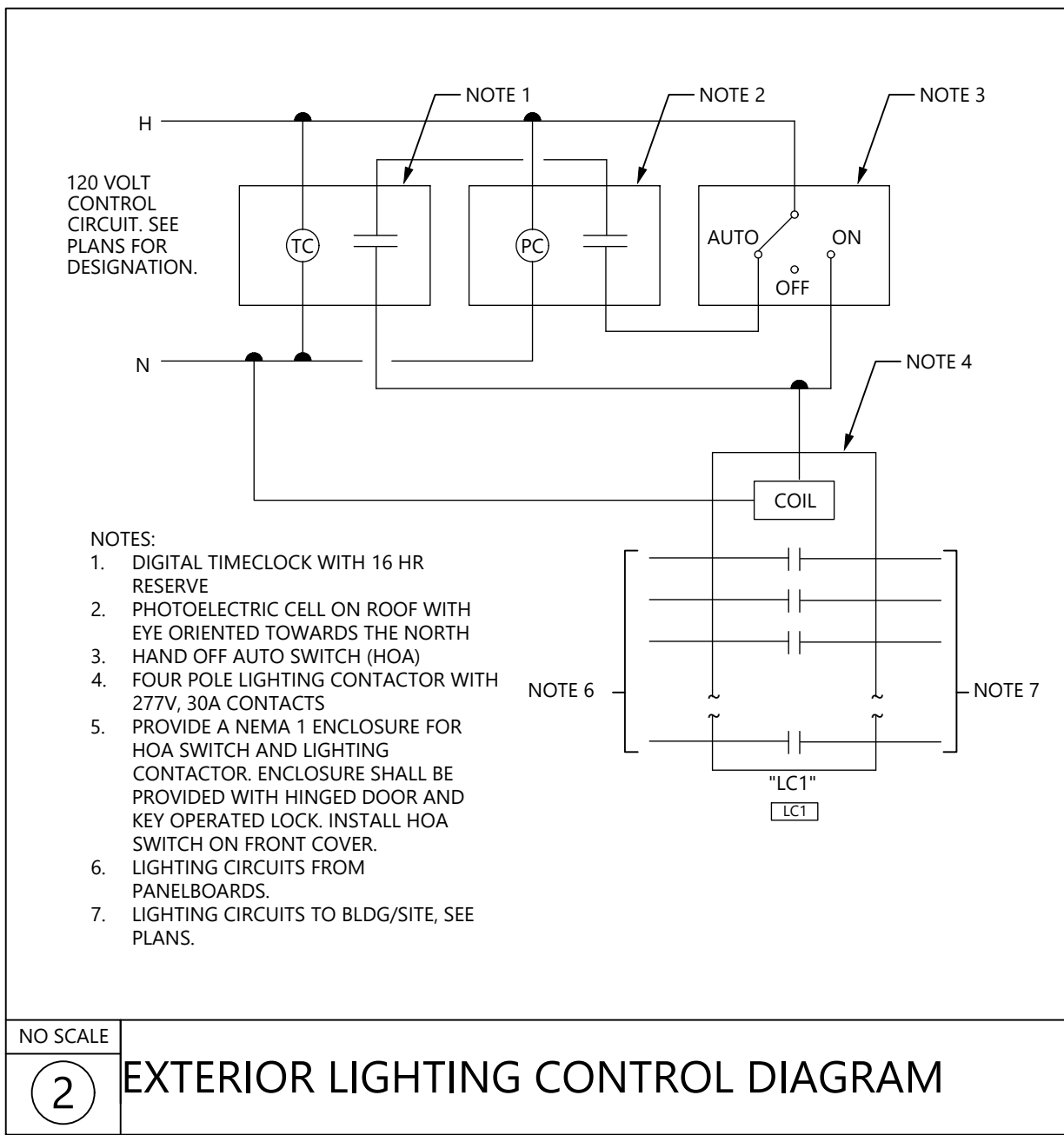
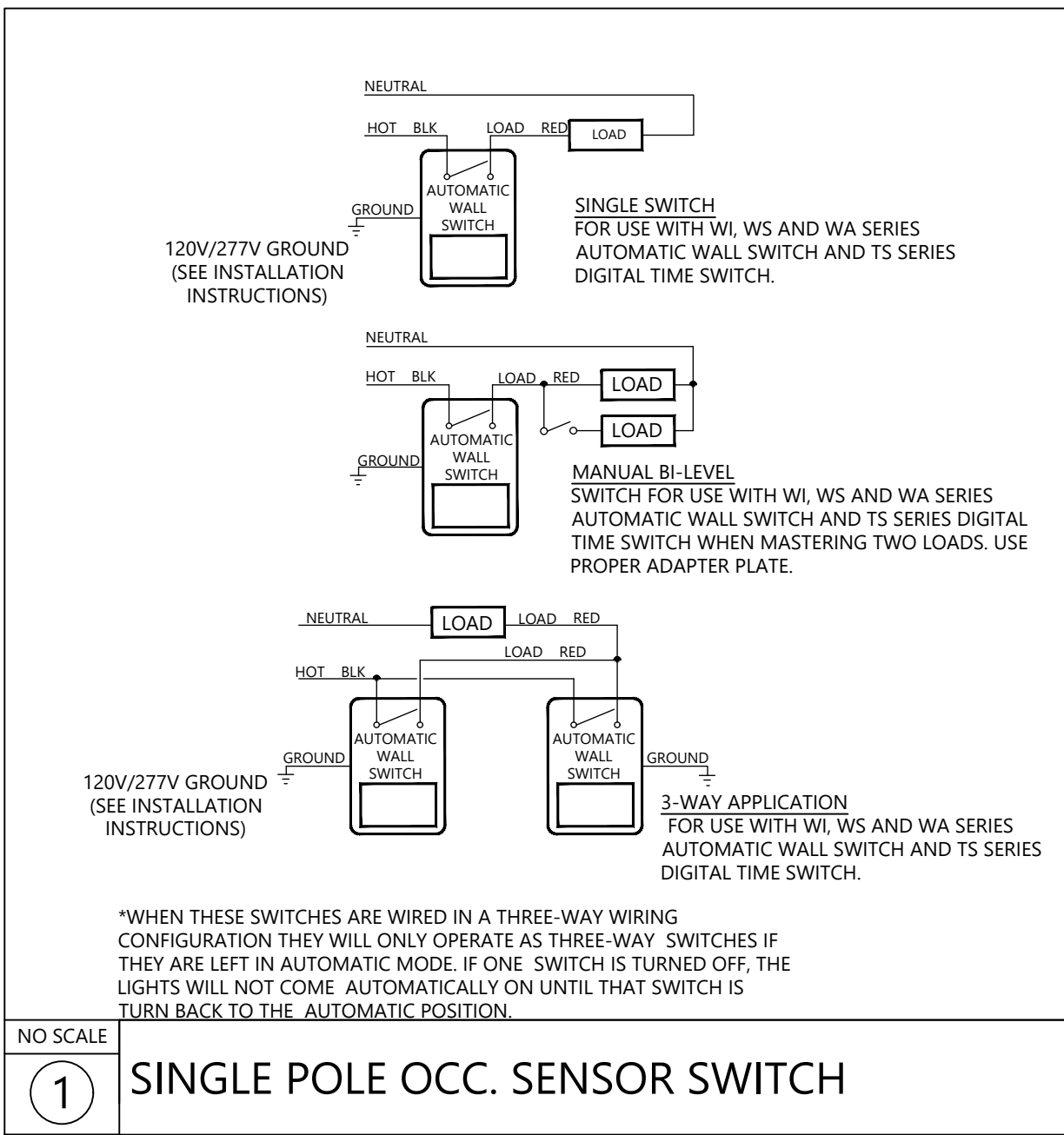
ELECTRICAL COVER SHEET

SHEET #:

E-01

WILDE # 24-125

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DWG DESCRIPTION:
ELECTRICAL DETAILS

SHEET #:
E-03

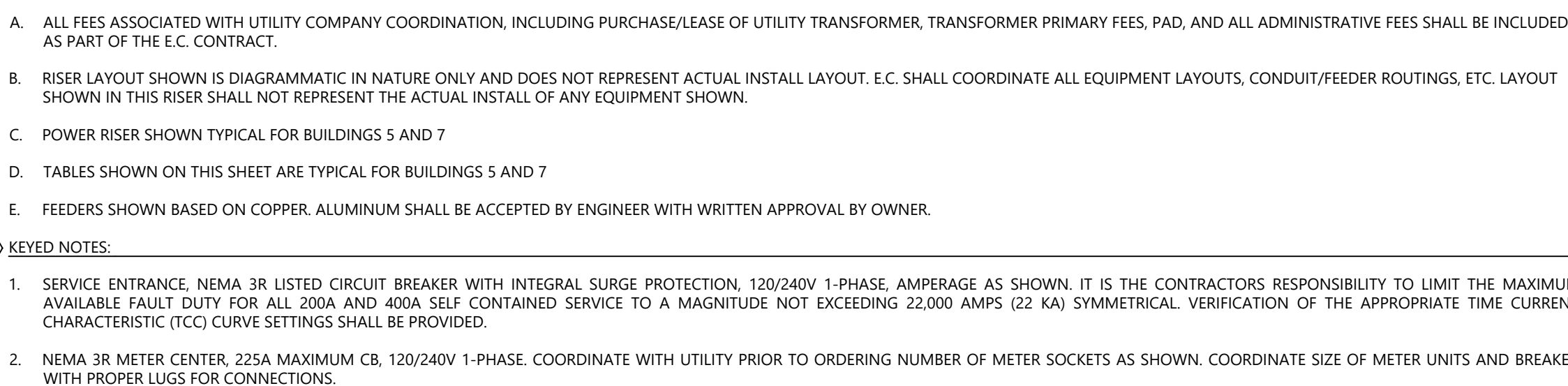
WILDE # 24-125

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DWG DESCRIPTION :

POWER RISER DIAGRAM -
BUILDINGS 5 & 7

WILDE #: 24-125



NOT TO SCALE

DEMAND LOADS: METER CENTER 'MCB'			
	NUMBER OF UNITS	UNIT KVA	TOTAL KVA
2 BEDROOM UNIT	8	40.92	327.37
1 BEDROOM UNIT	4	38.11	152.45
3 BEDROOM UNIT	2	42.07	84.14
TOTAL # OF UNITS		14	
		TOTAL:	564.0 KVA
WITH DEMAND FACTOR (PER NEC 220.84)		40%	225.6 KVA
		HOUSE PANEL:	6.7 KVA
		TOTAL:	232.3 KVA
		VOLTAGE OF SERVICE:	240 V
		SERVICE PHASE:	1 PH
		TOTAL AMPACITY:	967.8 A

NOTE:

1. THIS TABLE SHALL TAKE PRECEDENCE OVER ANY FEEDERS LISTED IN PANEL SCHEDULES, RISERS AND/OR PLANS. VOLTAGE DROP IS A FUNCTION OF DISTANCE, WHICH IS DETERMINED BY THE CONTRACTOR'S ROUTING IN THE FIELD DURING CONSTRUCTION.
2. CONSULT ENGINEER FOR FEEDERS GREATER THAN 300' IN LENGTH.
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.

NEW PANEL: HP5 & HP7 (NOTE #9)																			
VOLTAGE: 120/ 240					MOUNTING: SURFACE														
PHASE / WIRE: 1φ/ 3W					MAIN: LUGS ONLY														
AMPS: 100																			
AIC: 22,000																			
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #				CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA							
					L1		L2												
0.90	12	20	REC - GENERAL	1	●			2	LIGHTING - EXTERIOR	20	8	0.50							
0.72	10	20	REC - GENERAL	3			●	4	FACP (NOTE #8)	20	10	1.00							
1.08	8	20	REC - GENERAL	5	●			6	IRRIGATION CONTROLS	20	10	1.00							
1.08	6	20	REC - GENERAL	7			●	8	FIRE ALARM BELL (NOTE #8)	20	10	0.50							
1.08	6	20	REC - GENERAL	9	●			10	LIGHTING CONTACTOR LC1	20	12	0.10							
1.00	12	20	TELECOM CABINET	11			●	12			10	1.00							
		20	SPARE	13	●			14	ECUH-1	20	10	1.00							
		20	SPARE	15			●	16	SPARE	20									
		20	SPARE	17	●			18	SPARE	20									
			SPACE ONLY	19			●	20	SPACE ONLY										
			SPACE ONLY	21	●			22	SPACE ONLY										
			SPACE ONLY	23			●	24	SPACE ONLY										
				25	●			26											
				27			●	28											
				29	●			30											
				31			●	32											
				33	●			34											
				35			●	36											
				37	●			38											
				39			●	40											
				41	●			42											
5.9				SUB TOTALS								5.1							
LOAD (kVA)				Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE												
LIGHTS				0.5	1.25	0.6	CONNECTED												
HEATING				2.0	1.00	2.0	L1= 5.7 kVA	47.2 AMPS											
COOLING				0.0	1.00	0.0	L2= 5.3 kVA	44.2 AMPS											
VENTILATION				0.0	1.00	0.0	DEMAND												
MOTORS				0.0	1.00	0.0													
KITCHEN				0.0	0.65	0.0													
REC. (1st 10kVA)				4.9	1.00	4.9	L1= 5.8 kVA	48.2 AMPS											
REC. (>10kVA)				0.0	0.50	0.0	L2= 5.3 kVA	44.2 AMPS											
WATER HEATER				0.0	1.00	0.0	DEMAND AT 125%												
MISC.				3.6	1.00	3.6							L1= 7.2 kVA	60.3 AMPS					
SPARE				0.0	1.00	0.0							L2= 6.6 kVA	55.2 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. PANEL SHALL BE NEMA 3R RATED.

8. PROVIDE HANDLE LOCK-ON DEVICE. BREAKER SHALL BE RED.

9. PANEL SCHEDULE IS TYPICAL FOR BUILDINGS 5 AND 7



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Luis Graef: President



Orchards
PROPERTIES

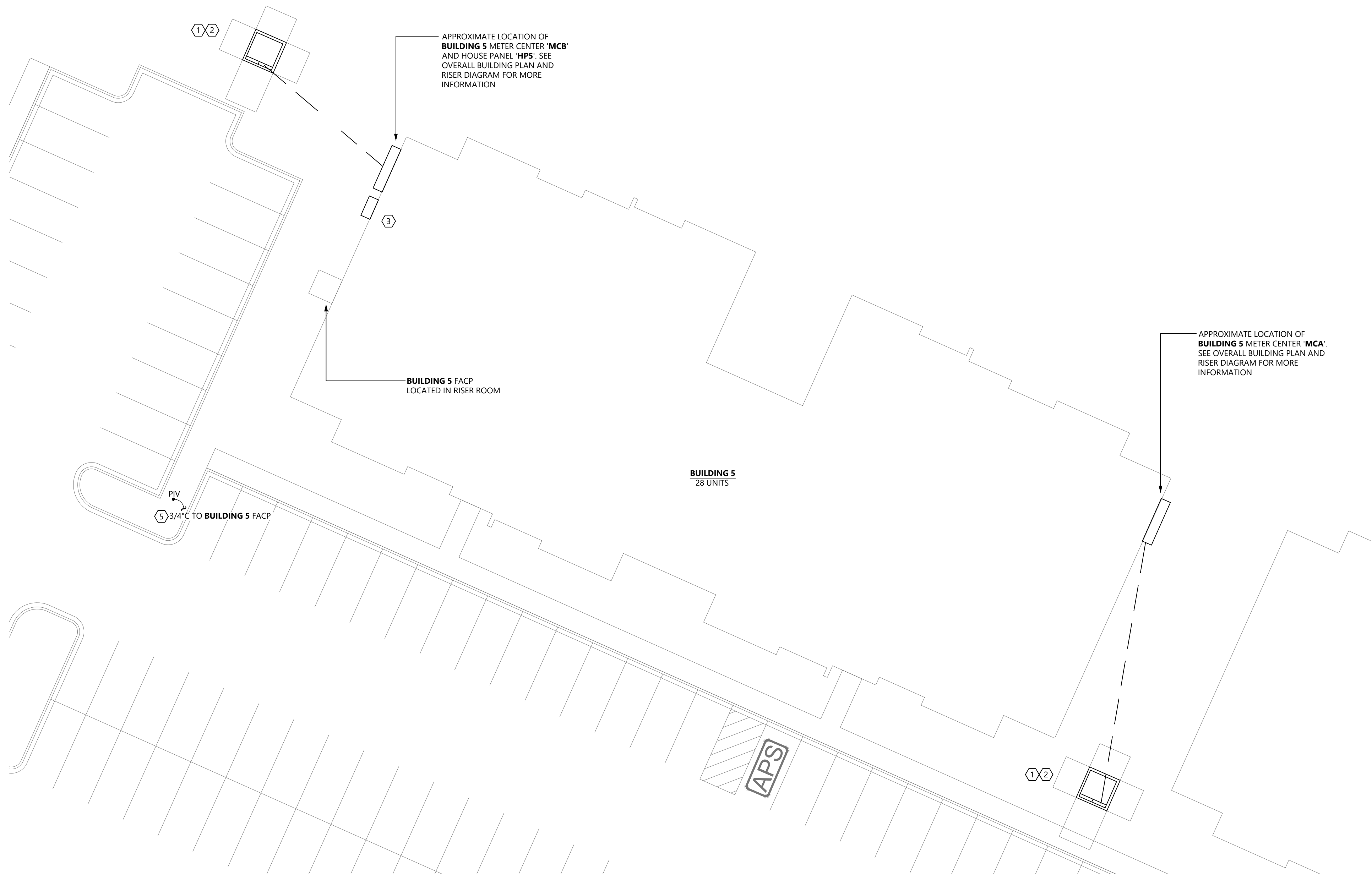
PROJECT:
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ISSUE DATE: 4/11/25
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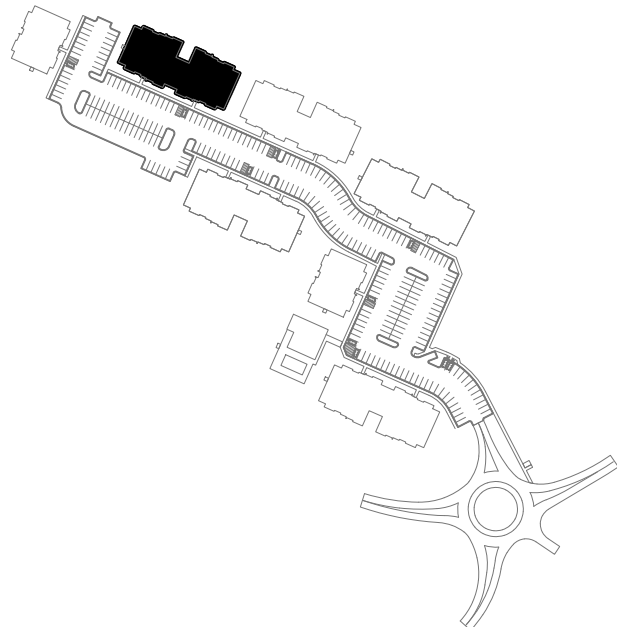
DWG DESCRIPTION:
PANEL SCHEDULE -
HOUSE PANEL

SHEET #:
E-05



1 ELECTRICAL SITE PLAN - BUILDING 5
1/16"=1'-0"

KEY PLAN
(NOT TO SCALE)



- SITE PLAN NOTES:
1. UTILITY TRANSFORMER, COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN.
 2. 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 6** PERMIT SUBMISSION AND SCOPE.



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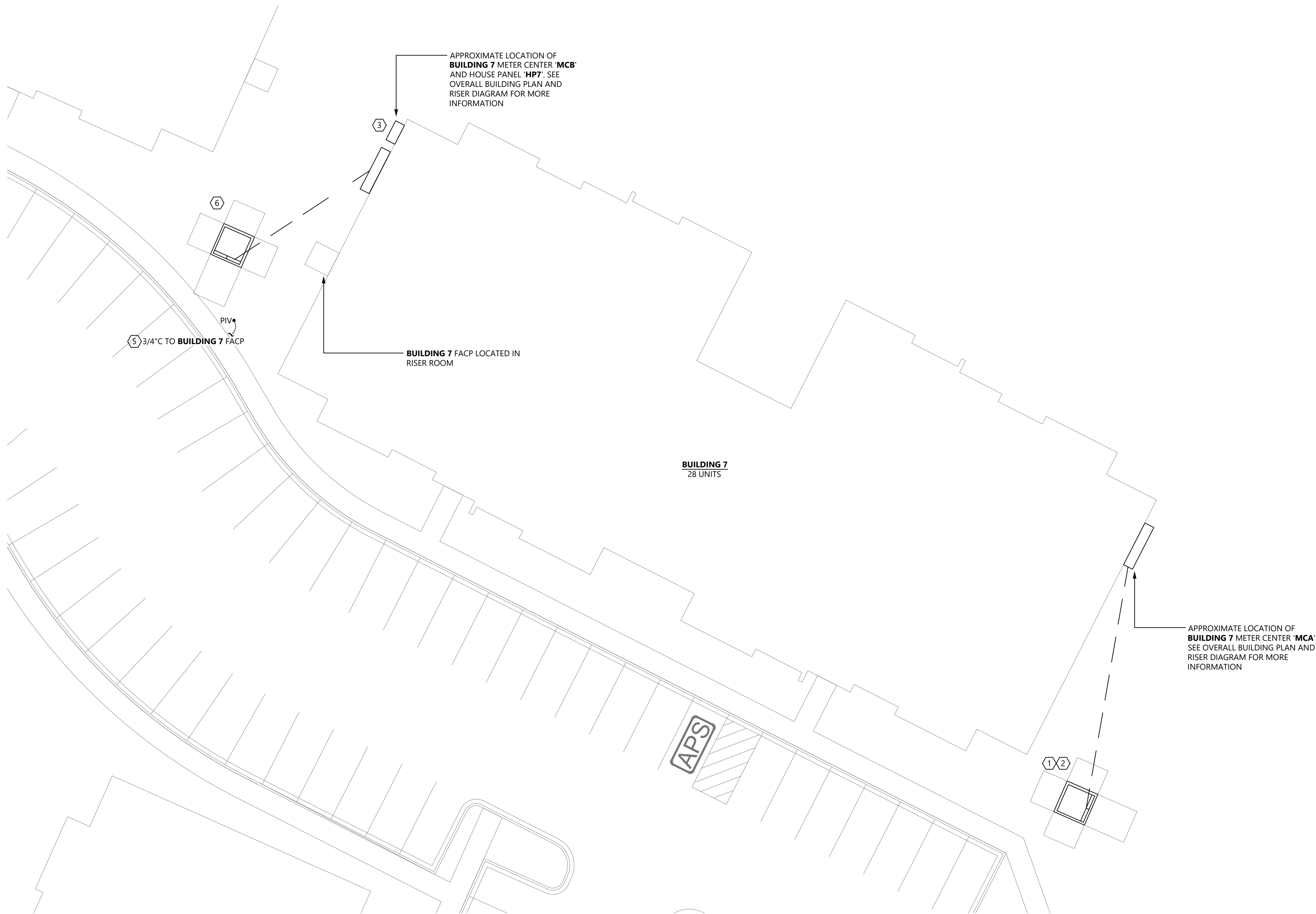
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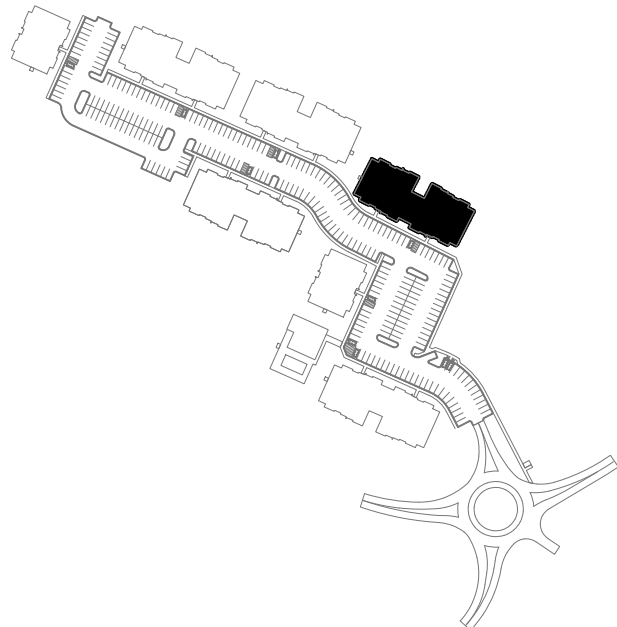
DWG DESCRIPTION:
ELECTRICAL SITE PLAN -
BUILDING 5

SHEET #:
E-10.5



1 ELECTRICAL SITE PLAN - BUILDING 7
1/16"=1'-0"

KEY PLAN
(NOT TO SCALE)



- SITE PLAN NOTES:
1. UTILITY TRANSFORMER, COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN.
 2. 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 6** PERMIT SUBMISSION AND SCOPE.



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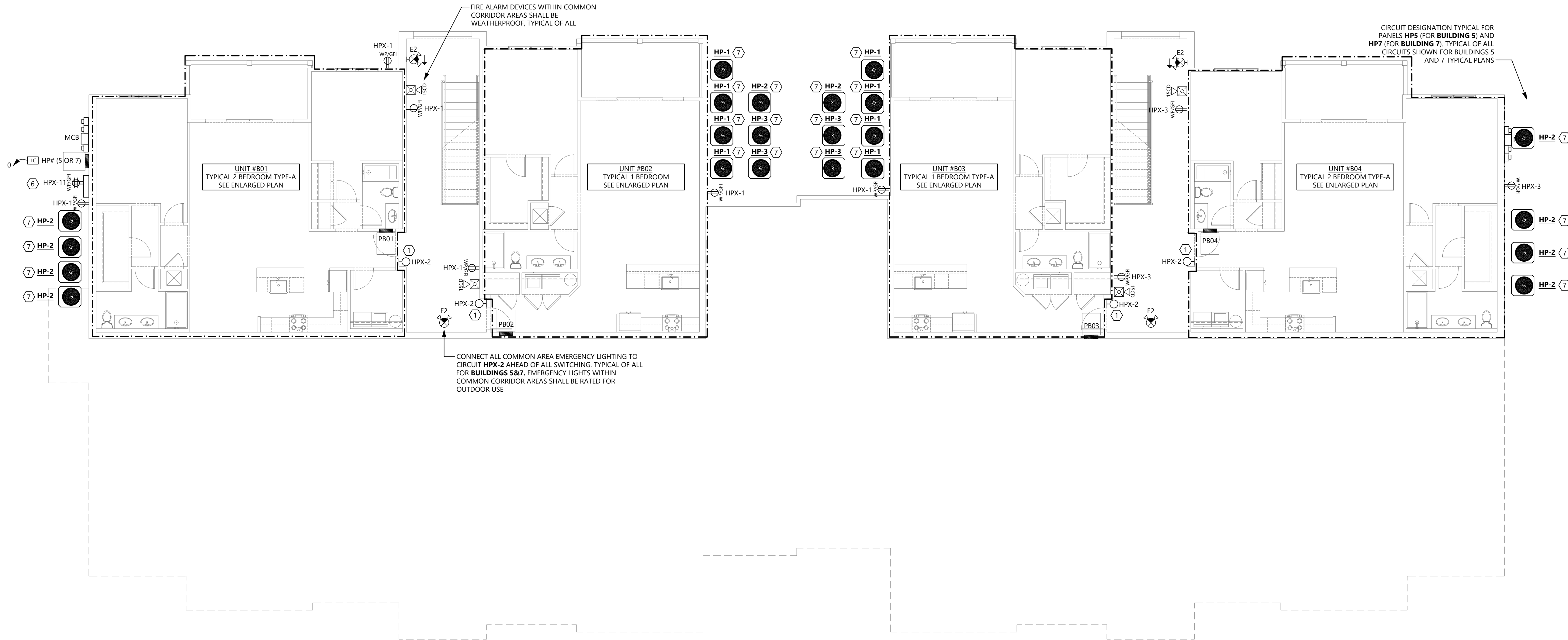
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DWG DESCRIPTION:
ELECTRICAL SITE PLAN -
BUILDING 7

SHEET #:
E-10.7



- 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 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 CONTRACTOR FOR ASSOCIATED BUILDING. CONTRACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTRACTOR DETAIL.
 - COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
 - POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - 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.

1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - BASEMENT LEVEL
1/8" = 1'-0"



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DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - BASEMENT -
BUILDINGS 5 & 7

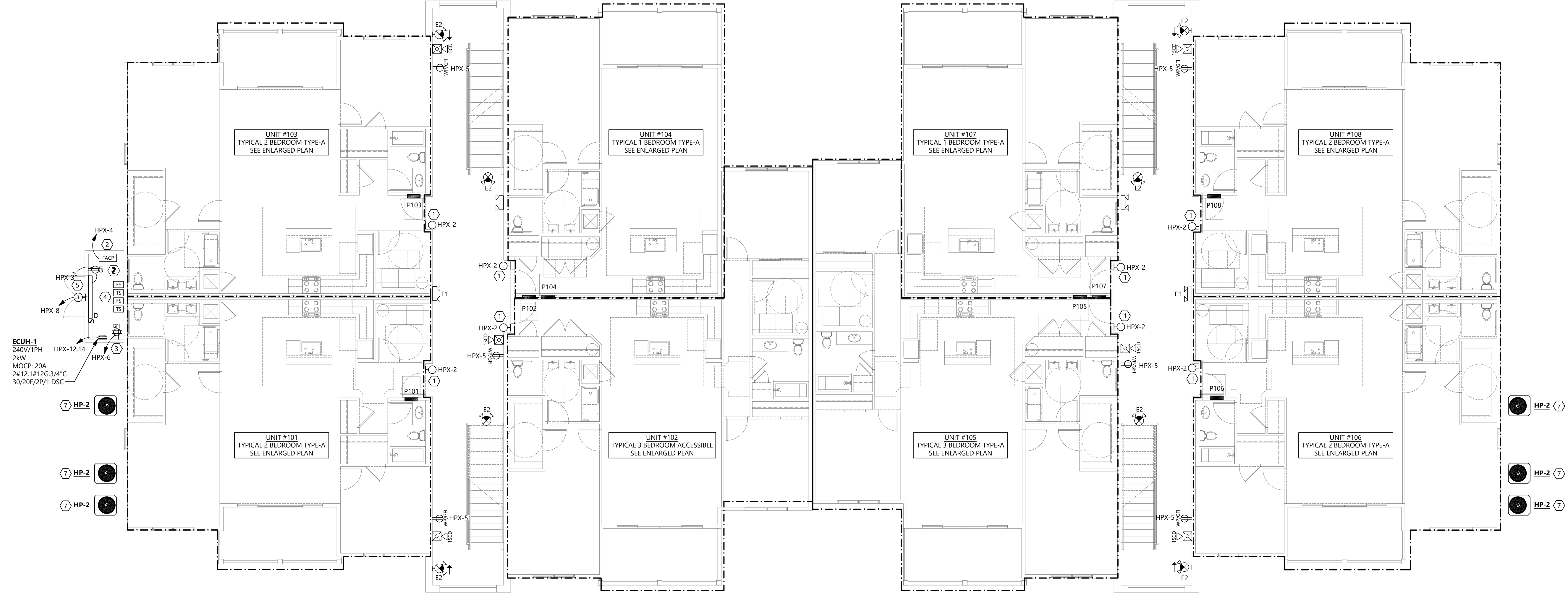
SHEET #:

E-21

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - OVERALL PLAN													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOC P	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
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 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 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):
1. 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 CONTRACTOR FOR ASSOCIATED BUILDING. CONTRACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTRACTOR 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 (3)-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.



1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - FIRST FLOOR
1/8"=1'-0"



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PROJECT:

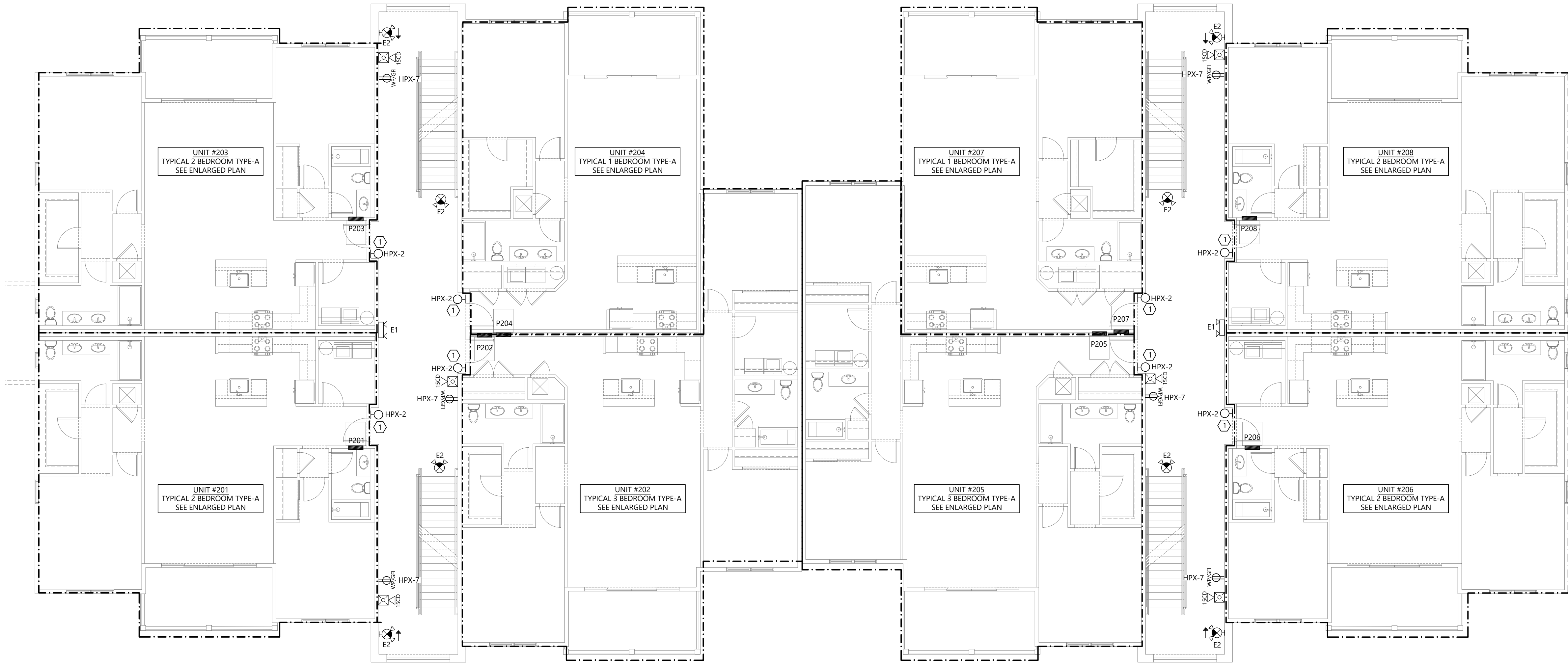
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DWG INFO:
ISSUE DATE: 4/11/25
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DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - FIRST FLOOR -
BUILDINGS 5 & 7

SHEET #:
E-22



1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - SECOND FLOOR
1/8"=1'-0"

- GENERAL NOTES:
- CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS. PROVIDE COPY OF AS-BUILT DRAWINGS TO OWNER AND ENGINEER AT PROJECT COMPLETION.
 - ALL CONDUIT SHALL BE CONCEALED BEHIND WALLS AND ABOVE CEILINGS. NO EXPOSED CONDUIT PERMITTED.
 - 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.
 - LABEL ALL RECEPTACLES WITH CIRCUIT AND PANEL INFORMATION.
 - PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS FOR ALL CONDUITS STUBBED ABOVE CEILING.
 - 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.
 - PROVIDE 90 MINUTE BATTERY BACKUP FOR ALL EMERGENCY FIXTURES SHOWN ON THIS PLAN. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING.
 - COORDINATE ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED MECHANICAL SUBMITTALS PRIOR TO ORDERING AND INSTALLATION.
 - ALL 15A AND 20A RECEPTACLES IN COMMON AREAS SHALL BE TAMPER RESISTANT.
 - SMOKE/HEAT DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF MECHANICAL AIR TERMINALS AND DIFFUSERS.
 - COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- KEYED NOTES (ALL MAY NOT BE ON THIS SHEET):
- WALL SCONCE (FIXTURE TAG 'B') AT EACH APARTMENT ENTRY DOOR. REFER TO ENLARGED UNIT PLANS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT. ROUTE THROUGH LIGHTING CONTACTOR FOR ASSOCIATED BUILDING. CONTACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTACTOR DETAIL.
 - COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
 - POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - 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.

PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE

CLIENT:

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



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

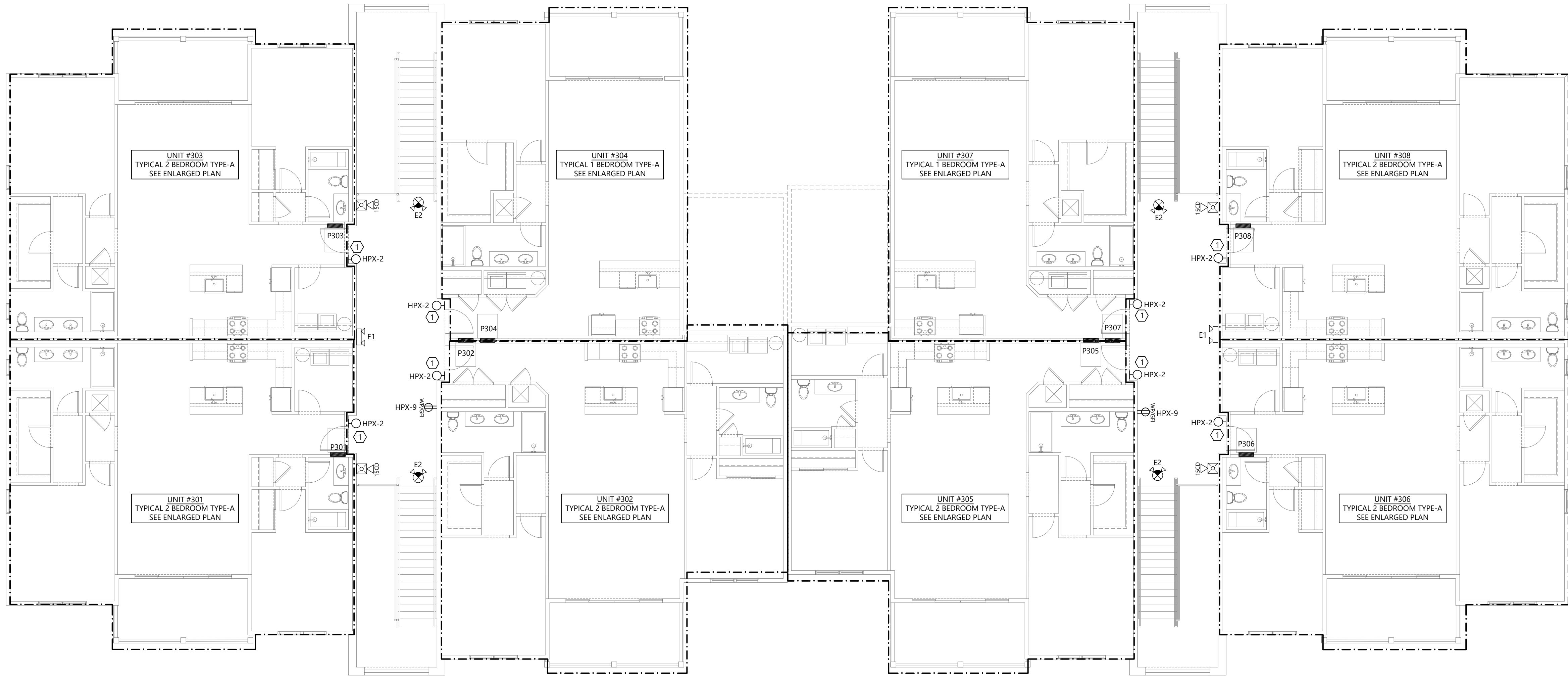
DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - SECOND FLOOR -
BUILDINGS 5 & 7

SHEET #:

E-23

- 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 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 CONTRACTOR FOR ASSOCIATED BUILDING. CONTRACTOR TO BE LOCATED ADJACENT TO BUILDING HOUSE PANEL. SEE LIGHTING CONTRACTOR DETAIL.
 - COORDINATE FACP LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
 - POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
 - 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.



1 OVERALL PLAN - BUILDINGS 5 & 7 (28-UNIT BLDG) - THIRD FLOOR
1/8"=1'-0"

PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE

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



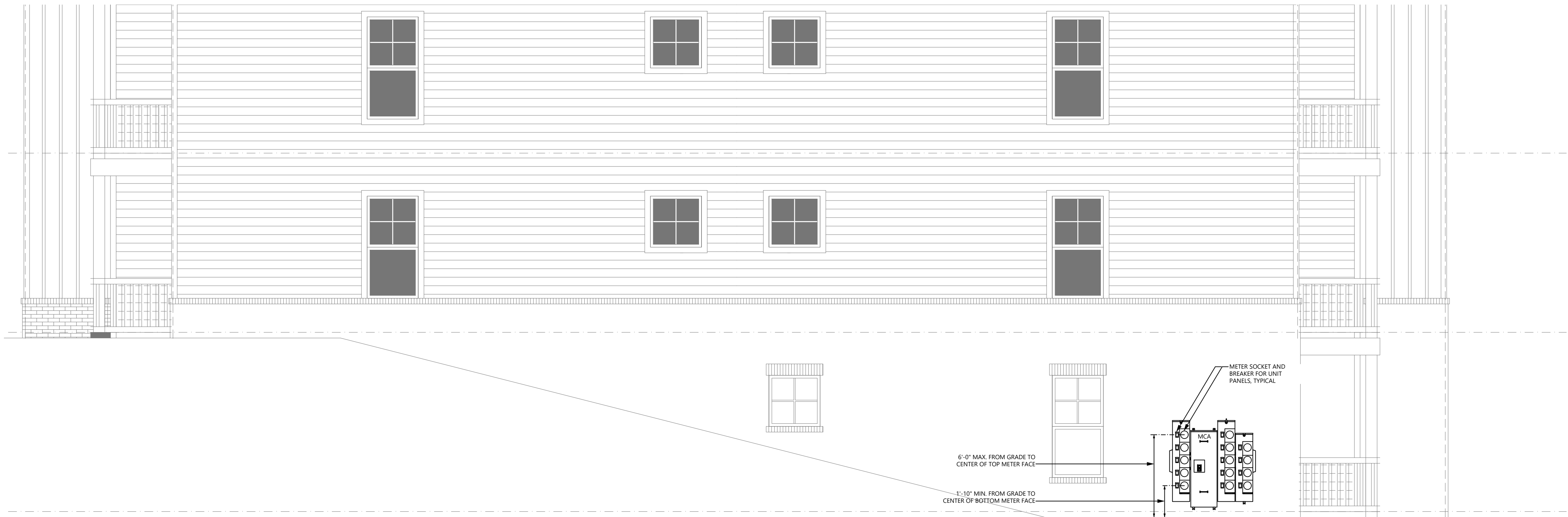
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

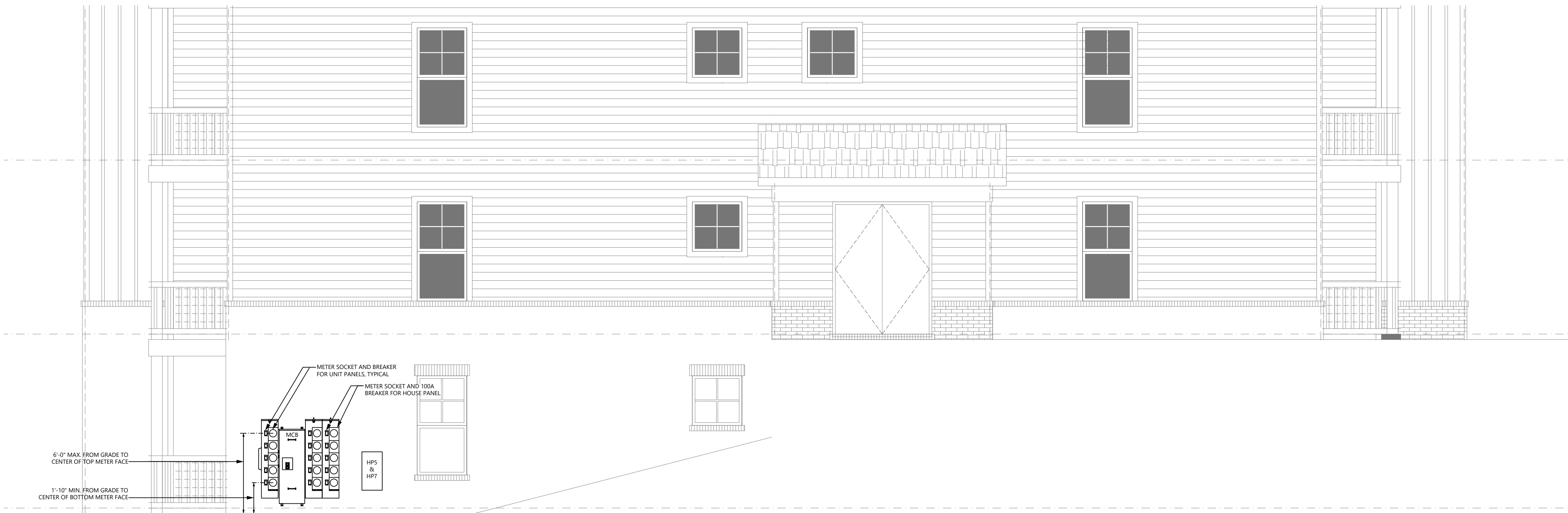
DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DESCRIPTION:
OVERALL ELECTRICAL
PLAN - THIRD FLOOR -
BUILDINGS 5 & 7

SHEET #:
E-24



1 PARTIAL PLAN EAST ELEVATION - BUILDINGS 5 & 7 (28-UNIT BUILDINGS)
1/4"=1'-0"



2 PARTIAL PLAN WEST ELEVATION - BUILDINGS 5 & 7 (28-UNIT BUILDINGS)
1/4"=1'-0"

#	REVISIONS	DATE

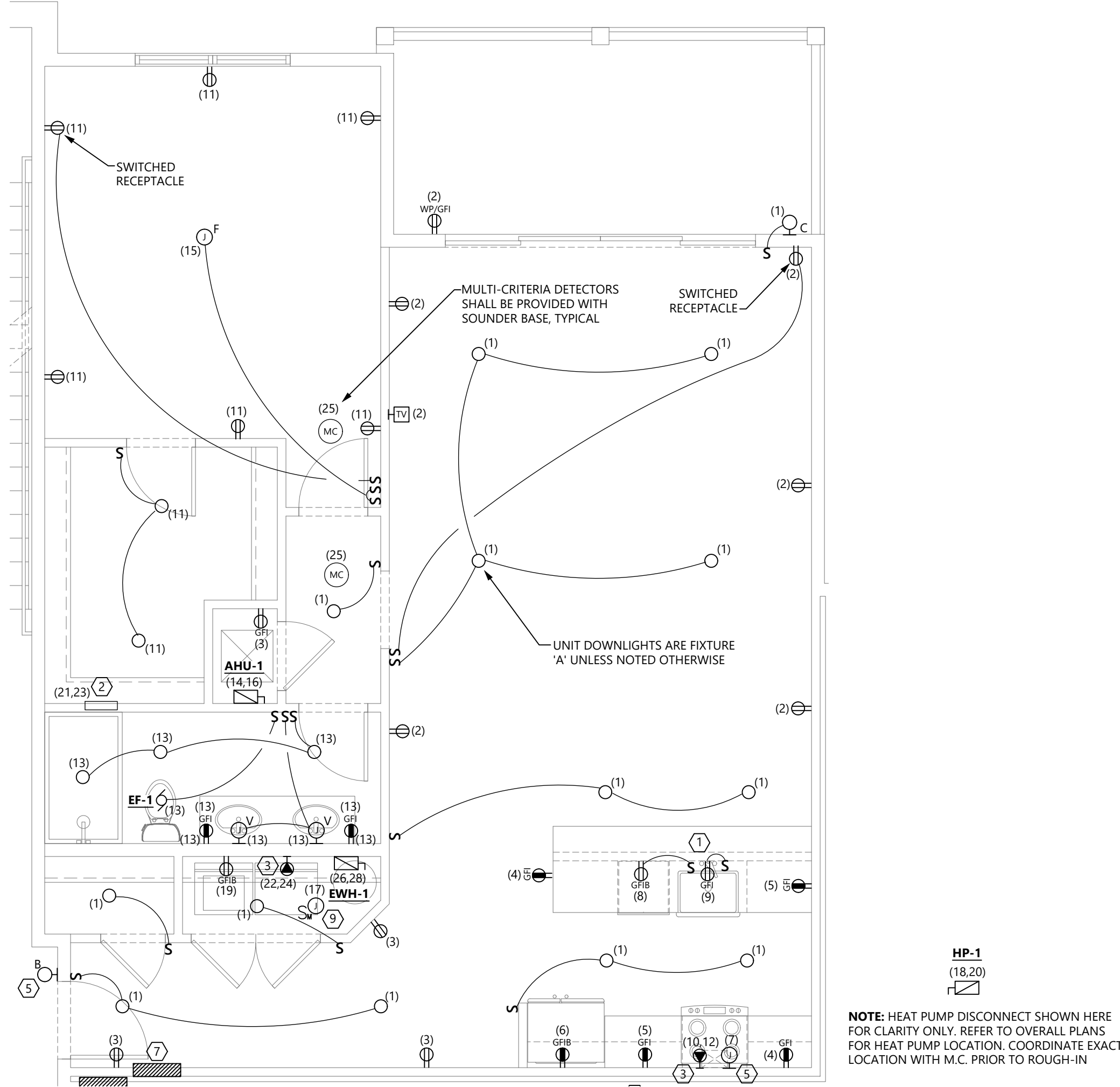
TYPICAL PANEL SCHEDULE FOR 1 BEDROOM UNITS

NEW PANEL: 1-BDRM											
VOLTAGE: 120/ 240 PHASE / WIRE: 1ϕ/ 3W AMPS: 100 AIC: 10,000						MOUNTING: FLUSH MAIN: LUGS ONLY					
LOAD	WIRE	TRIP	LOAD NAME	CKT #	L1	L2	CKT #	LOAD NAME	TRIP	WIRE	LOAD
KVA											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				
0.00	12	20	REC - BEDROOM	11		●	12	RANGE	50	6	0.00
0.00	12	20	BATHROOM	13	●		14				
0.00	12	20	BEDROOM FAN	15		●	16	AIR HANDLER	20	12	0.00
0.00	12	20	DRYER BOOSTER FAN	17	●		18	HEAT PUMP	15	8	0.00
0.00	12	20	WASHER (NOTE #7)	19		●	20				
0.00	12	20	TELECOM BOX	21	●		22	DRYER	30	10	0.00
0.00	12	20	TELECOM BOX	23		●	24				
0.00	12	20	FIRE ALARM (NOTE #8)	25	●		26	WATER HEATER	50	6	0.00
0.00		20	SPARE	27		●	28				
0.00		20	SPARE	29	●		30	SPARE	20	6	0.00
				31		●	32				
				33	●		34				
				35		●	36				
				37	●		38				
				39		●	40				
				41	●		42				
0.0 SUB TOTALS 0.0											
LOAD (kVA)											
	Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE							
				CONNECTED							
LIGHTS	0.0	1.25	0.0	L1=	0.0	kVA	0.0	AMPS			(NOTE #10)
HEATING	0.0	1.00	0.0	L2=	0.0	kVA	0.0	AMPS			
COOLING	0.0	1.00	0.0								
VENTILATION	0.0	1.00	0.0								
MOTORS	0.0	1.00	0.0	DEMAND							
KITCHEN	0.0	0.65	0.0	L1=	0.0	kVA	0.0	AMPS			(NOTE #10)
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	DEMAND AT 125%							
MISC.	0.0	1.00	0.0	L1=	0.0	kVA	0.0	AMPS			(NOTE #10)
SPARE	0.0	1.00	0.0	L2=	0.0	kVA	0.0	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.											

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 1 BEDROOM UNITS													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCB	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
AHU-1	1 BEDROOM AIR HANDLER	240	1	-	-	16.8	20	3#12,1#12G,3/4"C	30	2	20	1	1
HP-1	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
EF-1	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH				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 SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
3	WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

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

SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION												
UNIT / SUITE: 1BDRM, 1BDRM TYPE-A (Optional Calculation)												
Voltage (L-L): 240 Volts			Project Name: Naples Road Apartments									
Phase: 1			Project #: 24-125									
Floor Area: 1094 Sq Ft			By: Matt Lewis									
			Date: 3/13/2025									
LOAD		kVA	QTY	kVA	NOTES							
General Lighting Load		3.28	1	3.28	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)		3.63	1	3.63	Enter quantity for only the largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".							
HP Compressor (240V)		2.19	0	0.00								
Strip Heat (240V)		2.00	0	0.00								
Electric Space Heat (240V)		0.00	0	0.00								
Elec Thermal / Other (240V)		0.00	0	0.00								
Water Heater (240V)		9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal							
Water Heater (120V)		1.50	0	0.00								
Dishwasher		0.80	1	0.80								
Disposal		1.00	1	1.00	(1) 20A Ckt for Dishwasher & Disposal							
Microwave		1.50	1	1.50	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.							
Refrigerator		0.80	1	0.80								
		0.00	0	0.00								
		0.00	0	0.00								
		0.00	0	0.00								
TOTAL CONNECTED LOAD FOR UNIT				38.11	kVA							
DEMAND LOAD (PHASE)												
1st 10 kVA @ 100%		10.00	kVA	Gen Ltg, Small Appliance, Laundry		7.78						
Remaining @ 40%		9.7928	kVA	1st 3 kVA @ 100%		3.00	kVA					
A/C & Cooling @ 100%		3.63	kVA	> 3 kVA to 120 kVA @ 35%		1.67	kVA					
HP Compressor @ 100%		0.00	kVA	> 120 kVA @ 25%		0.00	kVA					
HP Strip Heat @ 65%		0.00	kVA	Remaining L-N Loads @ 100%		4.10	kVA					
Electric Space Heat @ 65%		0.00	kVA	Dryer Load @ 70%		3.50	kVA					
Electric Space Heat @ 40%		0.00	kVA	Range Load @ 70%		4.48	kVA					
Electric Thermal & Other Heating		0.00	kVA	Unbalanced load > 200A @ 70%		0.00	kVA					
TOTAL DEMAND LOAD (PHASE)				23.42 kVA 97.60 AMPS	TOTAL DEMAND LOAD (NEUTRAL)				16.75 kVA 69.81 AMPS			
Quantity of 15A general lighting circuits (w/ AFCI-P) = 2 OR Quantity of 20A general lighting circuits (w/ AFCI-P) = 2						AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.						
NOTES:												
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire												



1 ENLARGED UNIT PLAN - 1 BEDROOM

- 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 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

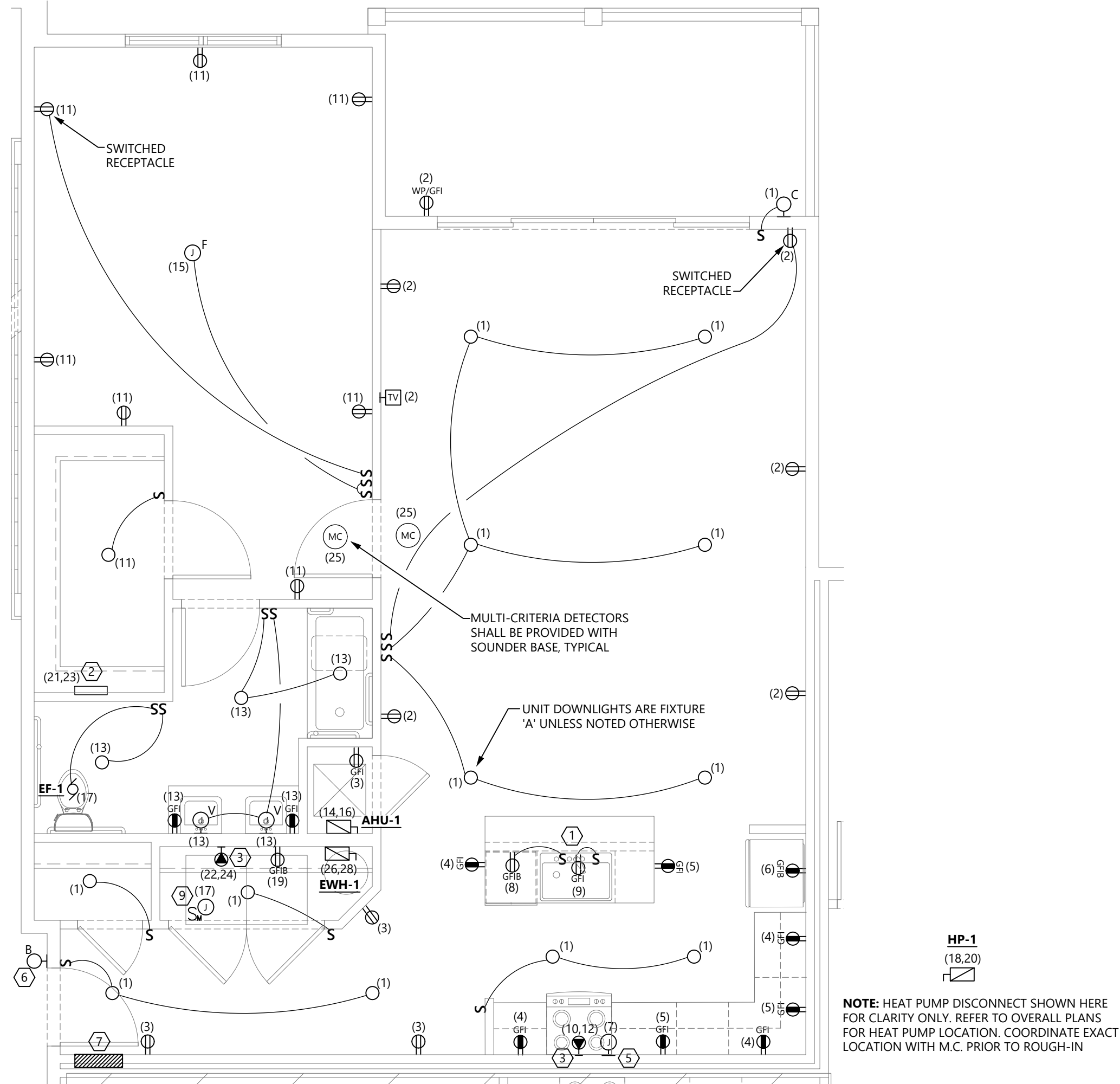
TYPICAL PANEL SCHEDULE FOR 1 BEDROOM TYPE-A UNITS

NEW PANEL: 1-BDRM TYPE-A																				
VOLTAGE: 120/ 240								MOUNTING: FLUSH												
PHASE / WIRE: 1φ/ 3W																				
AMPS: 100								MAIN: LUGS ONLY												
AIC: 10,000																				
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #	L1		L2	CKT #	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 - BEDROOM	11	●		●	12			6	0.00								
0.00	12	20	REC - BATHROOM	13	●			14	AIR HANDLER	20	12	0.00								
0.00	12	20	BEDROOM FAN	15	●		●	16			12	0.00								
0.00	12	20	DRYER BOOSTER FAN	17	●			18	HEAT PUMP	15	8	0.00								
0.00	12	20	WASHER (NOTE #7)	19	●		●	20			8	0.00								
0.00	12	20	TELECOM BOX	21	●			22	DRYER	30	10	0.00								
0.00	12	20	TELECOM BOX	23	●		●	24			10	0.00								
0.00	12	20	FIRE ALARM (NOTE #8)	25	●			26	WATER HEATER	50	6	0.00								
0.00		20	SPARE	27	●		●	28			6	0.00								
0.00		20	SPARE	29	●			30	SPARE	20		0.00								
				31	●		●	32												
				33	●			34												
				35	●		●	36												
				37	●			38												
				39	●		●	40												
				41	●			42												
				0.0																
				SUB TOTALS																
0.0																				
LOAD (KVA) Conn. D.F. Dmd. TOTAL LOAD PER PHASE																				
LIGHTS	0.0	1.25	0.0	CONNECTED				(NOTE #10)												
HEATING	0.0	1.00	0.0	L1=	0.0	KVA	0.0	AMPS												
COOLING	0.0	1.00	0.0	L2=	0.0	KVA	0.0	AMPS												
VENTILATION	0.0	1.00	0.0																	
MOTORS	0.0	1.00	0.0	DEMAND				(NOTE #10)												
KITCHEN	0.0	0.65	0.0	L1-	0.0	KVA	0.0	AMPS												
REC. (1st 10kVA)	0.0	1.00	0.0	L2-	0.0	KVA	0.0	AMPS												
REC. (>10kVA)	0.0	0.50	0.0																	
WATER HEATER	0.0	1.00	0.0	DEMAND 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												
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.																				

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 1 BEDROOM UNITS													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCP	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
AHU-1	1 BEDROOM AIR HANDLER	240	1	-	-	16.8	20	3#12,1#12G,3/4"C	30	2	20	1	1
HP-1	1 BEDROOM HEAT PUMP	240	1	-	-	11.4	15	NOTE 3	30	2	15	3R	1,3
EW-H-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
EF-1	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH				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 SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
3	WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

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

SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION						
UNIT / SUITE: 1BDRM, 1BDRM TYPE-A				(Optional Calculation)		
Voltage (L-L):		240 Volts		Project Name: Naples Road Apartments		
Phase:		1		Project #: 24-125		
Floor Area:		1094 Sq Ft		By: Matt Lewis		
				Date: 3/13/2025		
LOAD		kVA	QTY	kVA	NOTES	
General Lighting Load		3.28	1	3.28	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)		3.63	1	3.63	Enter quantity for only the largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".	
HP Compressor (240V)		2.19	0	0.00		
Strip Heat (240V)		2.00	0	0.00		
Electric Space Heat (240V)		0.00	0	0.00		
Elec Thermal / Other (240V)		0.00	0	0.00		
Water Heater (240V)		9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal	
Water 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		
Microwave		1.50	1	1.50	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.	
Refrigerator		0.80	1	0.80		
		0.00	0	0.00		
		0.00	0	0.00		
		0.00	0	0.00		
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	7.78		
Remaining @ 40%	9.7928	kVA	1st 3 kVA @ 100%	3.00	kVA	
A/C & Cooling @ 100%	3.63	kVA	> 3 kVA to 120 kVA @ 35%	1.67	kVA	
HP Compressor @ 100%	0.00	kVA	> 120 kVA @ 25%	0.00	kVA	
HP Strip Heat @ 65%	0.00	kVA	Remaining L-N Loads @ 100%	4.10	kVA	
Electric Space Heat @ 65%	0.00	kVA	Dryer Load @ 70%	3.50	kVA	
Electric Space Heat @ 40%	0.00	kVA	Range Load @ 70%	4.48	kVA	
Electric Thermal & Other Heating	0.00	kVA	Unbalanced load > 200A @ 70%	0.00	kVA	
TOTAL DEMAND LOAD (PHASE)		23.42	kVA	TOTAL DEMAND LOAD (NEUTRAL)		16.75
		97.60	AMPS			69.81
Quantity of 15A general lighting circuits (w/ AFCI-P) = 2				AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.		
OR						
Quantity of 20A general lighting circuits (w/ AFCI-P) = 2						
NOTES:						
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire						



1 ENLARGED UNIT PLAN - 1 BEDROOM TYPE-A

1/4" = 1'-0"

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 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.
- COORDINATE TV OUTLET BOX HEIGHTS AND LOCATIONS WITH ARCHITECT

TYPICAL PANEL SCHEDULE FOR 2 BEDROOM TYPE-A UNITS

NEW PANEL: 2-BDRM TYPE-A													
VOLTAGE: 120/ 240 PHASE / WIRE: 1p/ 3W AMPS: 125 AIC: 10,000								MOUNTING: FLUSH MAIN: LUGS ONLY					
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #				CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA	
					L1		L2						
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			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			10	0.00	
0.00	12	20	DRYER BOOSTER FAN	17	●			18			8	0.00	
0.00	12	20	WASHER (NOTE #7)	19	●		●	20	HEAT PUMP	20	8	0.00	
0.00	12	20	TELECOM BOX	21	●			22			10	0.00	
0.00	12	20	TELECOM BOX	23	●		●	24	DRYER	30	10	0.00	
0.00	12	20	FIRE ALARM (NOTE #8)	25	●			26			6	0.00	
0.00	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	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	●			42	SPARE	20			
				SUB TOTALS									0.0
LOAD (kVA)				Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE						
LIGHTS				0.0	1.25	0.0	CONNECTED				(NOTE #10)		
HEATING				0.0	1.00	0.0	L1= 0.0 kVA	0.0 AMPS					
COOLING				0.0	1.00	0.0	L2= 0.0 kVA	0.0 AMPS					
VENTILATION				0.0	1.00	0.0							
MOTORS				0.0	1.00	0.0	DEMAND				(NOTE #10)		
KITCHEN				0.0	0.65	0.0	L1- 0.0 kVA	0.0 AMPS					
REC. (1st 10kVA)				0.0	1.00	0.0	L2- 0.0 kVA	0.0 AMPS					
REC. (>10kVA)				0.0	0.50	0.0							
WATER HEATER				0.0	1.00	0.0	DEMAND 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					
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.													

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 2 BEDROOM UNITS													
TAG	EQUIPMENT DESCRIPTION	EQUIPMENT CHARACTERISTICS			FLA	MCA	MOCp	FEEDER	DISCONNECT SWITCH				NOTES
		VOLTAGE	PHASE	KW					SIZE	POLE	FUSE	NEMA	
AHU-2	1 BEDROOM AIR HANDLER	240	1	-	-	24.9	25	3#10,1#10G,1"C	30	2	25	1	1
HP-2	1 BEDROOM HEAT PUMP	240	1	-	-	13.8	20	NOTE 3	30	2	20	3R	1,3
EW-1	ELECTRIC WATER HEATER	240	1	9.60	-	-	50	3#6,1#10G,1"C	60	2	50	1	1
EF-1	BATHROOM EXHAUST FAN	120	1	0.05	-	-	-	2#12,1#12G,3/4"C	MOTOR SNAP SWITCH				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 SHALL BE REVIEWED AND APPROVED BY MECHANICAL CONTRACTOR.												
2	FAN POWERED VIA LOCAL LIGHTING CIRCUIT. CONNECT TO SWITCH SHOWN ON ENLARGED UNIT PLANS												
3	WIRE SIZE VARIES BASED ON DISTANCE FROM UNIT PANEL TO EXTERIOR HEAT PUMP. REFER TO OVERALL PLANS AND SIZE EACH UNIT HEAT PUMP TO ACCOUNT FOR VOLTAGE DROP												

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

SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION						
UNIT / SUITE: 2 BDRM, 2BDRM TYPE-A, 2BDRM ACCESSIBLE				(Optional Calculation)		
Voltage (L-L):		240 Volts		Project Name:		Naples Road Apartments
Phase:		1		Project #:		24-125
Floor Area:		1427 Sq Ft		By:		Matt Lewis
				Date:		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 largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".	
HP Compressor (240V)		2.65	0	0.00		
Strip Heat (240V)		2.00	0	0.00		
Electric Space Heat (240V)		0.00	0	0.00		
Elec Thermal / Other (240V)		0.00	0	0.00		
Water Heater (240V)		9.60	1	9.60	(1) 20A Ckt for Dishwasher & Disposal (1) 20A Ckt for Dishwasher & Disposal	
Water Heater (120V)		1.50	0	0.00		
Dishwasher		0.80	1	0.80		
Disposal		1.00	1	1.00		
Microwave		1.50	1	1.50		
Refrigerator		0.80	1	0.80	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.	
		0.00	0	0.00		
		0.00	0	0.00		
		0.00	0	0.00		
		0.00	0	0.00		
TOTAL CONNECTED LOAD FOR UNIT				40.92	KVA	
DEMAND LOAD (PHASE)				DEMAND LOAD (NEUTRAL)		
1st 10 kVA @ 100%		10.00 kVA	Gen Ltg, Small Appliance, Laundry		8.78	
Remaining @ 40%		10.1924 kVA	1st 3 kVA @ 100%		3.00 kVA	
A/C & Cooling @ 100%		5.44 kVA	> 3 kVA to 120 kVA @ 35%		2.02 kVA	
HP Compressor @ 100%		0.00 kVA	> 120 kVA @ 25%		0.00 kVA	
HP Strip Heat @ 65%		0.00 kVA	Remaining L-N Loads @ 100%		4.10 kVA	
Electric Space Heat @ 65%		0.00 kVA	Dryer Load @ 70%		3.50 kVA	
Electric Space Heat @ 40%		0.00 kVA	Range Load @ 70%		4.48 kVA	
Electric Thermal & Other Heating		0.00 kVA	Unbalanced load > 200A @ 70%		0.00 kVA	
TOTAL DEMAND LOAD (PHASE)		25.63 kVA 106.90 AMPS	TOTAL DEMAND LOAD (NEUTRAL)		17.10 kVA 71.26 AMPS	
Quantity of 15A general lighting circuits (w/ AFCI-P) = 3 OR Quantity of 20A general lighting circuits (w/ AFCI-P) = 2				AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.		
NOTES:						
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire						

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM TYPE-A UNITS

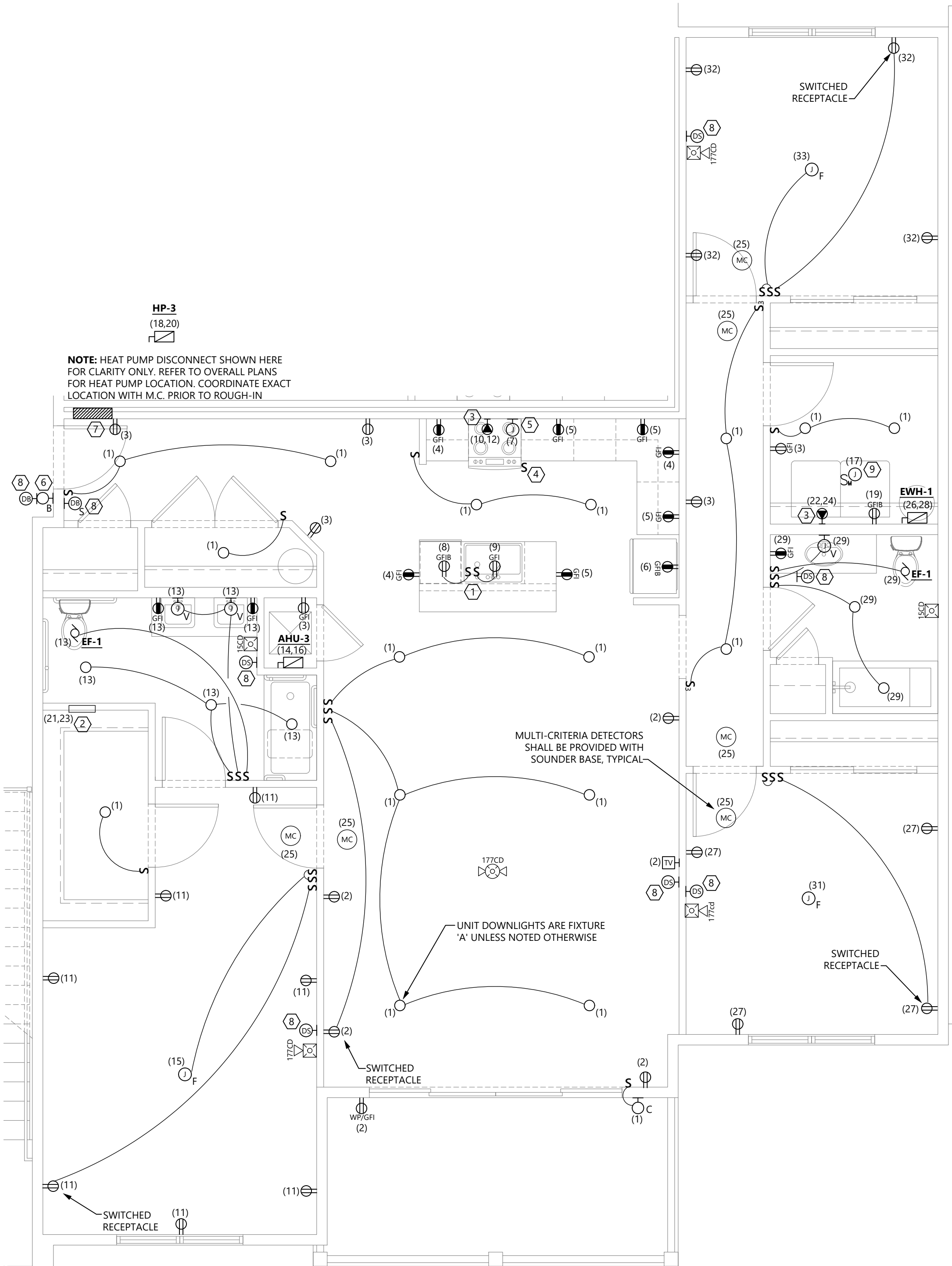
NEW PANEL: 3-BDRM TYPE-A												
VOLTAGE: 120/ 240 PHASE / WIRE: 1φ/ 3W AMPS: 125 AIC: 10,000								MOUNTING: FLUSH MAIN: LUGS ONLY				
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #				CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA
					L1		L2					
0.00	12	20	LIGHTING	1	●			2	REC - LIVING ROOM	20	12	0.00
0.00	12	20	REC - 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			6	0.00
0.00	12	20	MASTER BATHROOM	13	●			14	AIR HANDLER	30	10	0.00
0.00	12	20	FAN - MASTER BEDROOM	15			●	16			10	0.00
0.10	12	20	DRYER BOOSTER FAN	17	●			18	HEAT PUMP	25	8	0.00
0.00	12	20	WASHER (NOTE #7)	19			●	20			8	0.00
0.00	12	20	TELECOM BOX	21	●			22	DRYER	30	10	0.00
0.00	12	20	TELECOM BOX	23			●	24			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			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	●			34	SPARE	20		
		20	SPARE	35			●	36	SPARE	20		
		20	SPARE	37	●			38	SPARE	20		
		20	SPARE	39			●	40	SPARE	20		
		20	SPARE	41	●			42	SPARE	20		
0.1 SUB TOTALS 0.0												
LOAD (kVA)				Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE					
LIGHTS	0.0			1.25	0.0	CONNECTED				(NOTE #10)		
HEATING	0.0			1.00	0.0	L1= 0.1 kVA	0.8 AMPS					
COOLING	0.0			1.00	0.0	L2= 0.0 kVA	0.0 AMPS					
VENTILATION	0.0			1.00	0.0							
MOTORS	0.1			1.00	0.1	DEMAND				(NOTE #10)		
KITCHEN	0.0			0.65	0.0	L1= 0.1 kVA	0.8 AMPS					
REC. (1st 10kVA)	0.0			1.00	0.0	L2= 0.0 kVA	0.0 AMPS					
REC. (>10kVA)	0.0			0.50	0.0							
WATER HEATER	0.0			1.00	0.0	DEMAND AT 125%				(NOTE #10)		
MISC.	0.0			1.00	0.0	L1= 0.1 kVA	1.0 AMPS					
SPARE	0.0			1.00	0.0	L2= 0.0 kVA	0.0 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.												

TYPICAL PANEL SCHEDULE FOR 3 BEDROOM ACCESSIBLE UNITS

NEW PANEL: 3-BDRM ACCESSIBLE													
VOLTAGE: 120/ 240 PHASE / WIRE: 1ϕ/ 3W AMPS: 125 AIC: 10,000										MOUNTING: FLUSH MAIN: LUGS ONLY			
LOAD KVA	WIRE	TRIP	LOAD NAME	CKT #			CKT #	LOAD NAME	TRIP	WIRE	LOAD KVA		
					L1	L2							
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				6	0.00	
0.00	12	20	MASTER BATHROOM	13	●	●	14	AIR HANDLER	30	10	0.00		
0.00	12	20	FAN - MASTER BEDROOM	15	●	●	16				10	0.00	
0.10	12	20	DRYER BOOSTER FAN	17	●		18	HEAT PUMP	25	8	0.00		
0.00	12	20	WASHER (NOTE #7)	19	●	●	20				8	0.00	
0.00	12	20	TELECOM BOX	21	●		22	DRYER	30	10	0.00		
0.00	12	20	TELECOM BOX	23	●	●	24				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				6	0.00	
0.00	12	20	BATHROOM #2	29	●		30	SPARE	20			0.00	
0.00	12	20	FAN - BEDROOM #2	31	●	●	32	REC - BEDROOM #3	20	12			
0.00	12	20	FAN - BEDROOM #3	33	●		34	SPARE	20				
			SPARE	35	●	●	36	SPARE	20				
			SPARE	37	●		38	SPARE	20				
			SPARE	39	●	●	40	SPARE	20				
			SPARE	41	●		42	SPARE	20				
0.1				SUB TOTALS								0.0	
LOAD (KVA)				Conn.	D.F.	Dmd.	TOTAL LOAD PER PHASE					(NOTE #10)	
LIGHTS				0.0	1.25	0.0	CONNECTED						
HEATING				0.0	1.00	0.0	L1= 0.1 KVA	0.8 AMPS					
COOLING				0.0	1.00	0.0	L2= 0.0 KVA	0.0 AMPS					
VENTILATION				0.0	1.00	0.0							
MOTORS				0.1	1.00	0.1	DEMAND					(NOTE #10)	
KITCHEN				0.0	0.65	0.0	L1= 0.1 KVA	0.8 AMPS					
REC. (1st 10KVA)				0.0	1.00	0.0	L2= 0.0 KVA	0.0 AMPS					
REC. (>10KVA)				0.0	0.50	0.0							
WATER HEATER				0.0	1.00	0.0	DEMAND AT 125%					(NOTE #10)	
MISC.				0.0	1.00	0.0	L1= 0.1 KVA	1.0 AMPS					
SPARE				0.0	1.00	0.0	L2= 0.0 KVA	0.0 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.													

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

SINGLE DWELLING UNIT FEEDER & SERVICE LOAD CALCULATION									
UNIT / SUITE: 3BDRM, 3BDRM TYPE-A, 3BDRM ACCESSIBLE				(Optional Calculation)					
Voltage (L-L):		240 Volts		Project Name:		Naples Road Apartments			
Phase:		1		Project #:		24-125			
Floor Area:		1716 Sq Ft		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/ 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 largest of the following: "A/C and Cooling", "HP" (with or w/o strip heat), "Electric Space Heat", or "Electric Thermal & Other Heating".			
HP Compressor (240V)			3.26	0	0.00				
Strip Heat (240V)			2.00	0	0.00				
Electric Space Heat (240V)			0.00	0	0.00				
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			
Disposal			1.00	1	1.00	(1) 20A Ckt for Dishwasher & Disposal			
Microwave			1.50	1	1.50				
Refrigerator			0.80	1	0.80	Examples of fastened in place appliances are compactors, furnace motors, attic fans, water pumps, etc. Add these appliances individually where applicable.			
			0.00	0	0.00				
			0.00	0	0.00				
			0.00	0	0.00				
TOTAL CONNECTED LOAD FOR UNIT					42.07	kVA			
DEMAND LOAD (PHASE)					DEMAND LOAD (NEUTRAL)				
1st 10 kVA @ 100%			10.00	kVA	Gen Ltg, Small Appliance, Laundry			9.65	
Remaining @ 40%			10.5392	kVA	1st 3 kVA @ 100%			3.00	kVA
A/C & Cooling @ 100%			5.72	kVA	> 3 kVA to 120 kVA @ 35%			2.33	kVA
HP Compressor @ 100%			0.00	kVA	> 120 kVA @ 25%			0.00	kVA
HP Strip Heat @ 65%			0.00	kVA	Remaining L-N Loads @ 100%			4.10	kVA
Electric Space Heat @ 65%			0.00	kVA	Dryer Load @ 70%			3.50	kVA
Electric Space Heat @ 40%			0.00	kVA	Range Load @ 70%			4.48	kVA
Electric Thermal & Other Heating			0.00	kVA	Unbalanced load > 200A @ 70%			0.00	kVA
TOTAL DEMAND LOAD (PHASE)			26.26	kVA	TOTAL DEMAND LOAD (NEUTRAL)			17.41	kVA
			109.41	AMPS				72.53	AMPS
Quantity of 15A general lighting circuits (w/ AFCI-P) = 3 OR Quantity of 20A general lighting circuits (w/ AFCI-P) = 3					AMP RATING OF THE GENERAL LIGHTING & RECEPTACLE CIRCUIT(S) SHALL BE AS INDICATED IN THE PANEL SCHEDULES.				
NOTES:									
1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire									



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

- 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 A117.1 SECTION 308. 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.

- KEYED NOTES:
- 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.



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Hendersonville, NC 28792
Luis Graef, President



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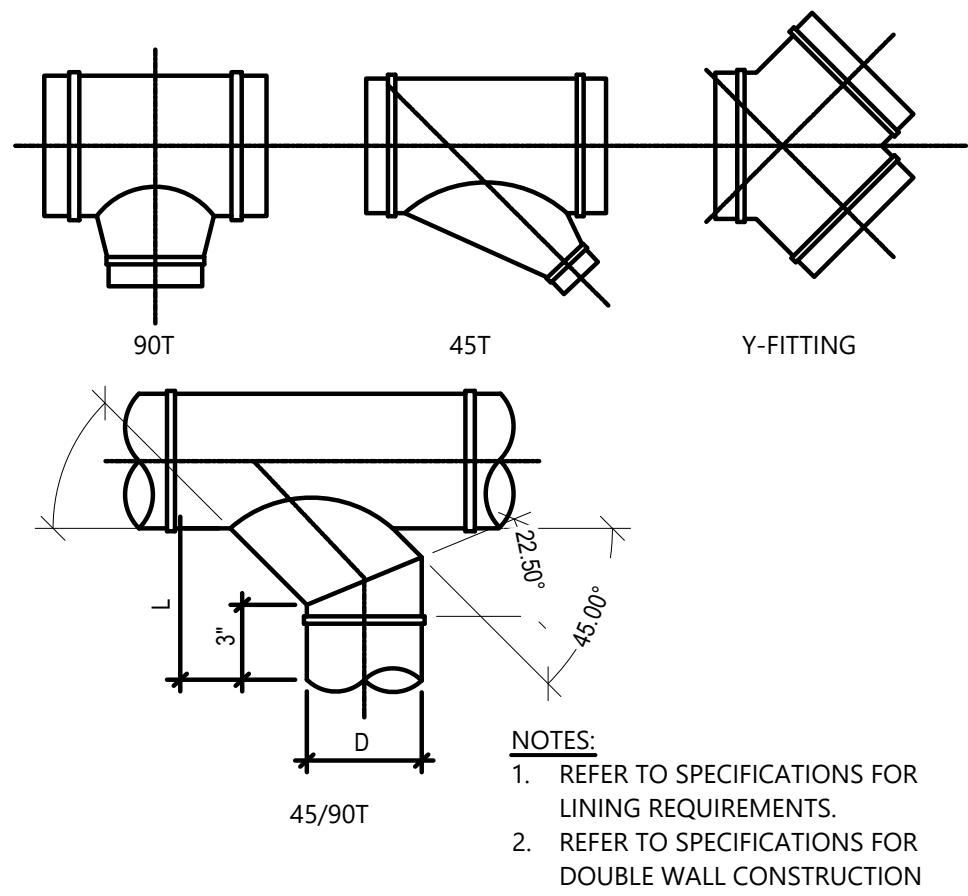
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Apartment Complex
Hendersonville, North Carolina

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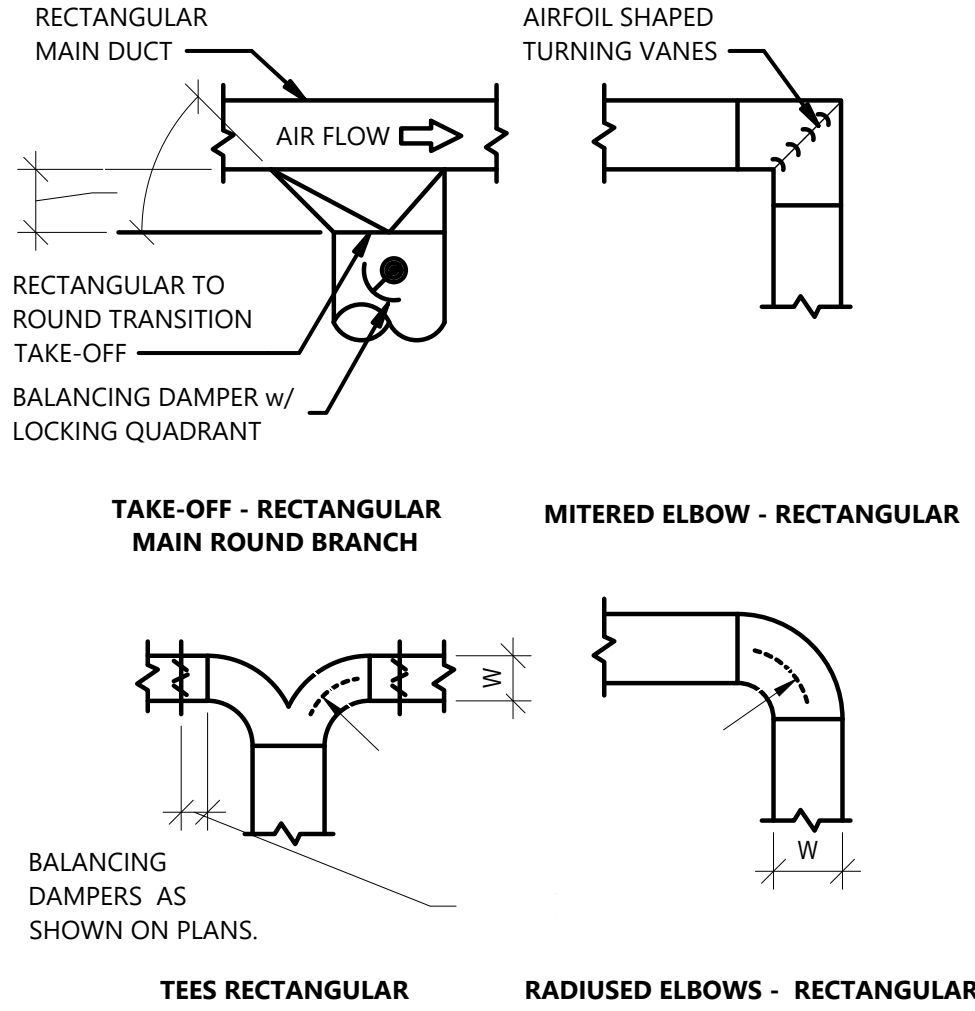
DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: MFL
CHECKED BY: JK

DWG DESCRIPTION:
ENLARGED UNIT PLAN -
3 BEDROOM ACCESSIBLE

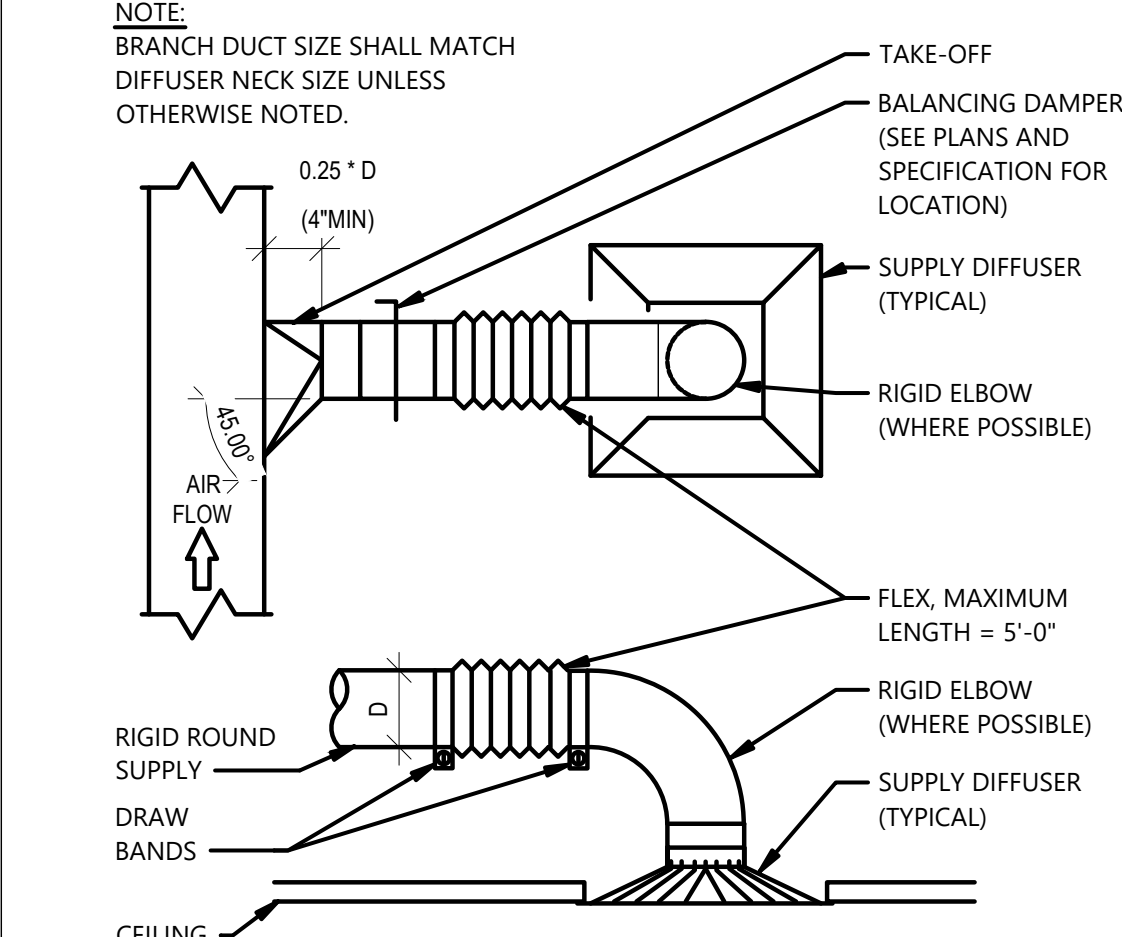
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E-45



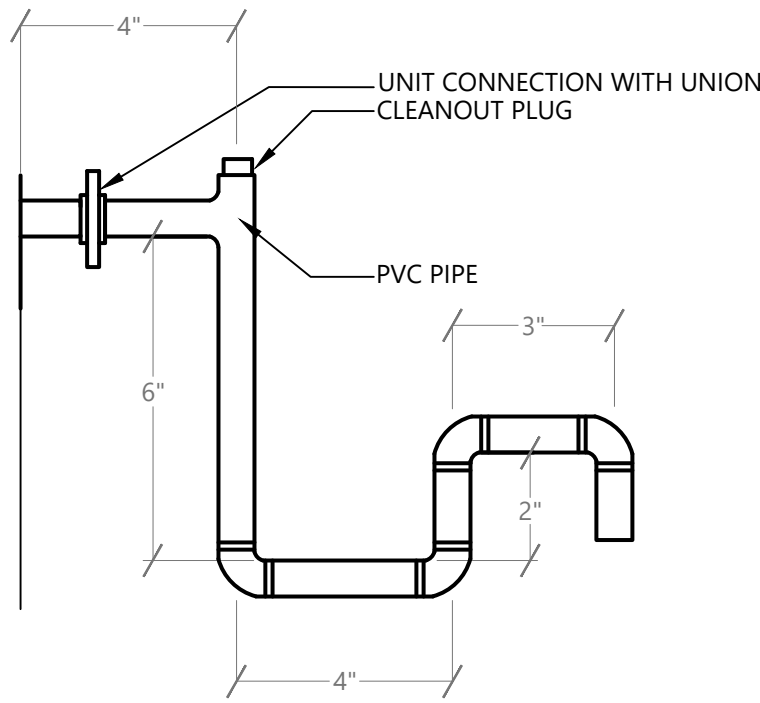
NO SCALE
① ROUND DUCT FITTINGS DETAIL



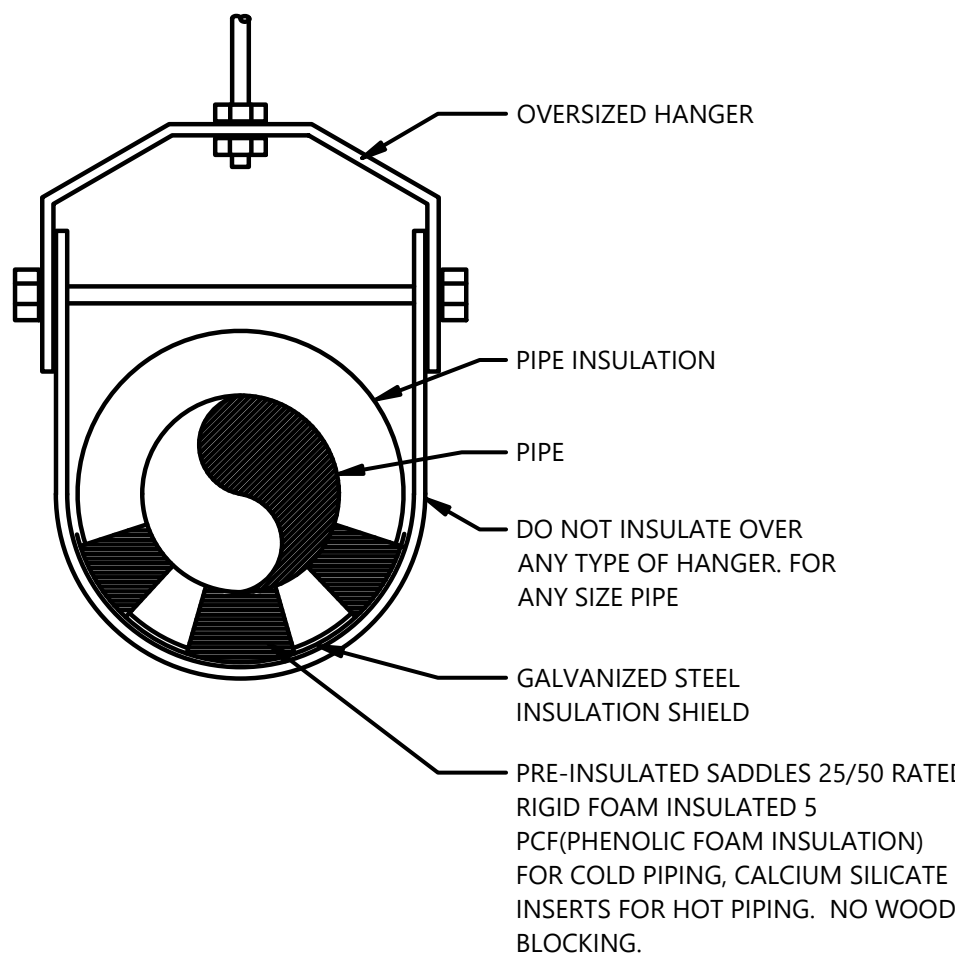
NO SCALE
② RECTANGULAR DUCT FITTINGS DETAIL



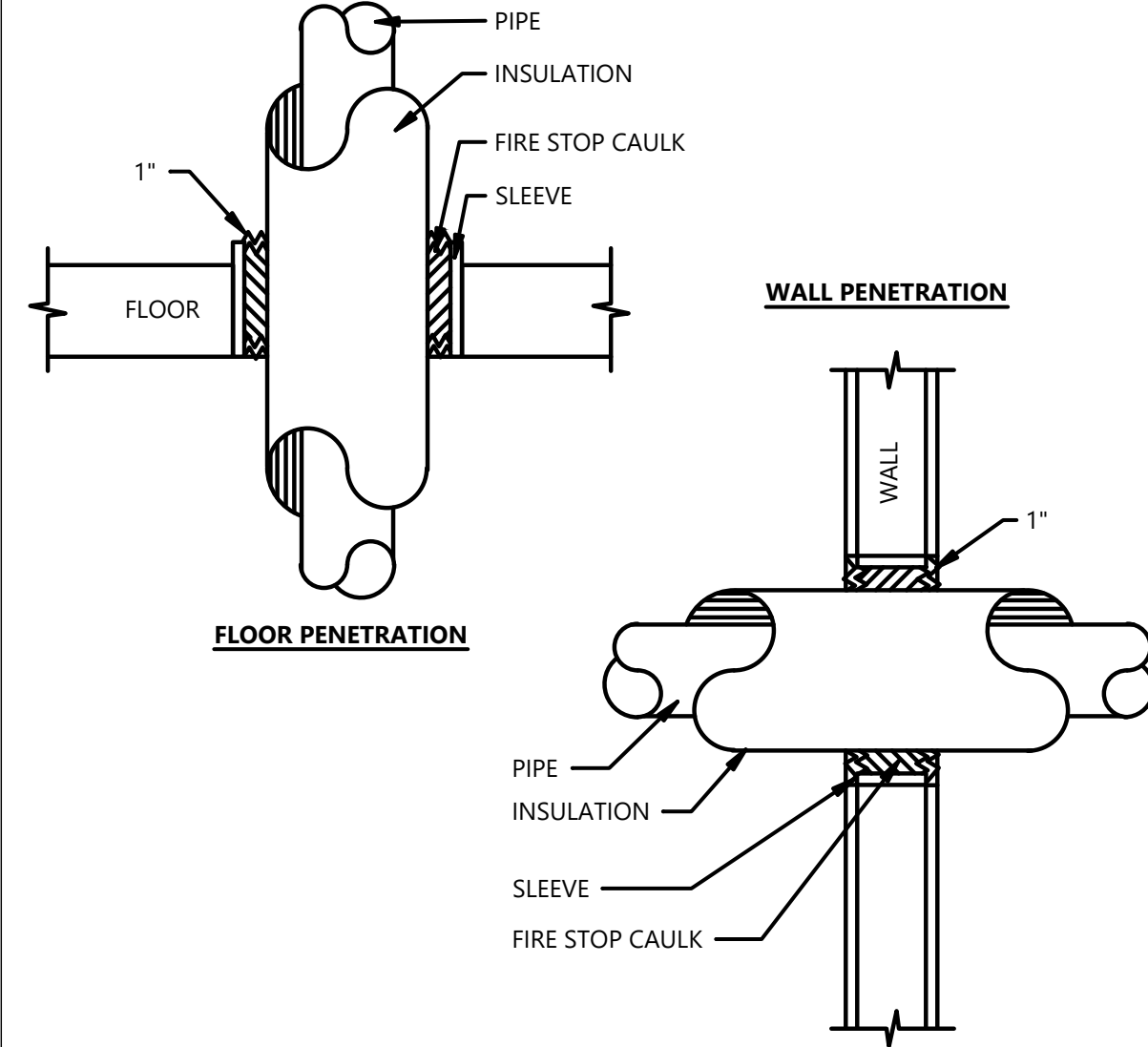
NO SCALE
③ ROUND BRANCH DUCT TAKE-OFF DETAIL



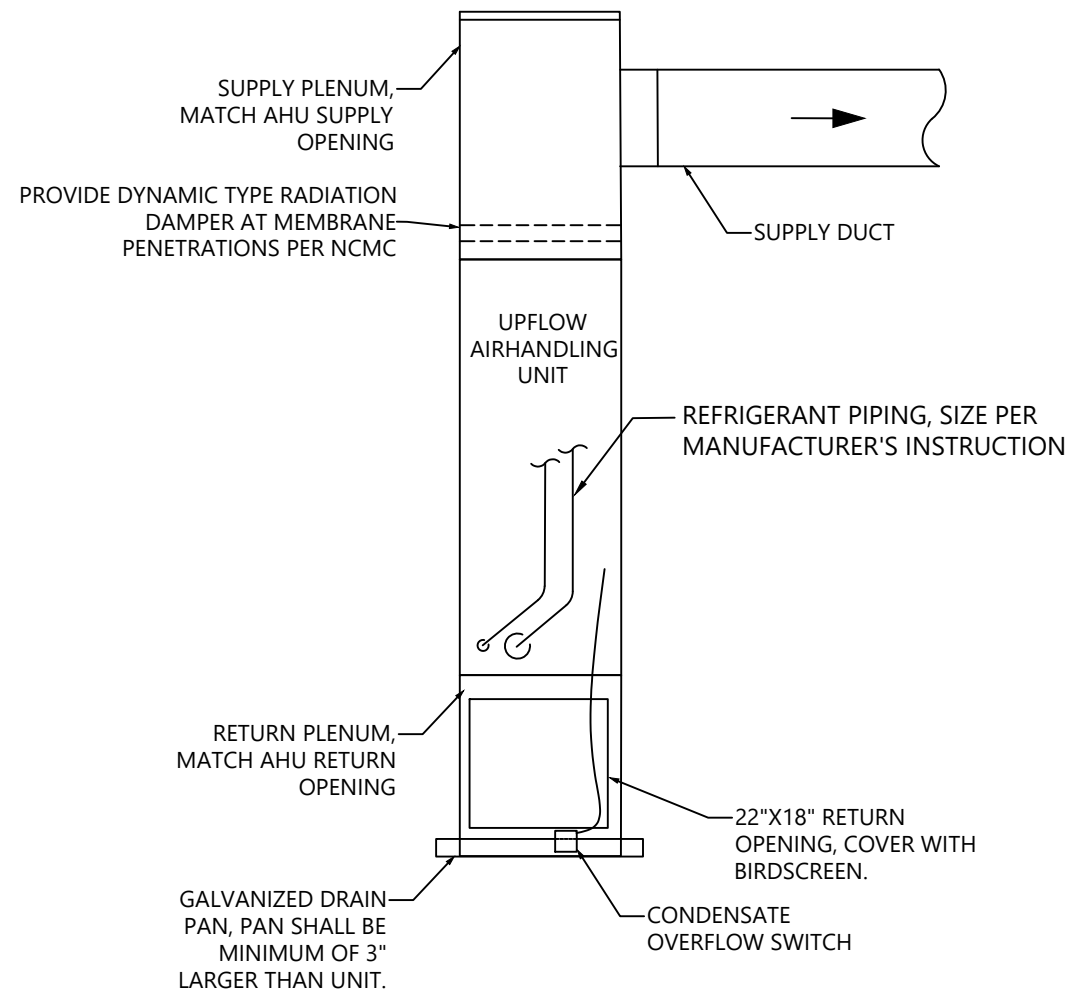
NO SCALE
④ DRAIN CONNECTION DETAIL



NO SCALE
⑤ TYPICAL PIPE HANGER DETAIL



NO SCALE
⑥ PIPE PENETRATION DETAILS



NO SCALE
⑦ APARTMENT AHU DETAIL

MECHANICAL GENERAL NOTES

- COMPLY WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- 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\"/>

SHEET METAL GENERAL NOTES

- 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\"/>

HVAC PIPING GENERAL NOTES

- CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE (OR TYPE 1\"/>

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	THERMOSTAT / TEMP SENSOR (4'-0\"/>
	SUPPLY GRILLE
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	CEILING RADIATION DAMPER
	MVD (MANUAL VOLUME DAMPER)
	DIFFUSER TAG
	NECK SIZE
	AIRFLOW-(TYPICAL QUANTITY)
	AIR HANDLING UNIT
	HEAT PUMP
	EXHAUST FAN
	ELECTRIC CABINET UNIT HEATER
	DRYER BOOSTER FAN

Building Code - 2018 North Carolina NCBC

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

#	REVISIONS	DATE

INDOOR UNIT SPLIT SYSTEM SCHEDULE

MARK	NOTES	INDOOR UNIT DATA								ELECTRICAL DATA					WEIGHT
		MFR	MODEL NO.	NOM. CAP. (MBH)	SUPPLY AIR FAN					ELECTRIC HEATER (KW)	VOLTAGE/PH	MCA (A)	MOCP (A)		
					SA (CFM)	OA (CFM)	ESP (IN. W.C.)	FLA	HP						
AHU-1	1-7	GOODMAN	AWST18	18	600	-	0.2	2.6	1/3	3	230/1	18.9	20	84	
AHU-2	1-7	GOODMAN	AWST24	24	800	-	0.3	2.6	1/3	5	230/1	28.3	30	84	
AHU-3	1-7	GOODMAN	AWST30	30	1000	-	0.3	3.8	1/2	5	230/1	29.8	30	109	

- NOTES:
- 1

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- 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 UNIT SPLIT SYSTEM SCHEDULE

MARK	NOTES	OUTDOOR UNIT DATA										WEIGHT
		MFR	MODEL NO.	REFRIG. TYPE	REFRIG. COOLING PERFORMANCE		REFRIG. HEATING PERFORMANCE		ELECTRICAL DATA			
					NOM. CAP. (MBH)	SEER2	NOM. CAP (MBH)	HSPF2	VOLTAGE/PH	MCA	MOCP	
HP-1	1-3	GOODMAN	GLZS4MA18	R32	18	14.5	18	7.5	230/1	11.4	15	(LBS)
HP-2	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:
- 1

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- PROVIDE 4" CONCRETE HOUSEKEEPING PAD.

EC TO PROVIDE ELECTRICAL DISCONNECT.

SCROLL COMPRESSOR.

FAN SCHEDULE

MARK	NOTES	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	FAN DATA					ELECTRICAL DATA				WEIGHT
						TYPE	AIRFLOW	RPM	ESP	MOTOR DATA	VOLTS	PHASE	MCA	MOCP	
							(CFM)		(IN. W.C.)				(HP)		
EF-1	1-5	BROAN	XB50	EXHAUST	APARTMENT BATHROOMS	CEILING MOUNT	50	-	0.1	5.1W	115	1	-	-	12.5
DBF-1	1, 2, 4-12	FANTECH	DEDPV705	DRYER EXHAUST	APARTMENT	INLINE	150	2600	0.2	78W	120	1	-	-	23

- NOTES:
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- FACTORY MOUNTED DISCONNECT.

GRAVITY OPERATED DAMPER.

PROVIDE RADIATION DAMPER.

EC TO PROVIDE WALL SWITCH.

FAN SHALL RUN CONTINUOUSLY WHILE BUILDING IS OCCUPIED.

UL705 CERTIFIED.

EC TO PROVIDE OUTLET WITHIN 4' OF FAN.

PLUG TYPE DISCONNECT.

UL705 CERTIFIED.

PRESSURE SWITCH, THERMAL SHUTDOWN, LED WARNING PANEL

LOCATE WARNING PANEL ABOVE DRYER IN VISIBLE LOCATION.

MC SHALL PROVIDE PERMANENT LABEL INDICATING TOTAL EQUIVALENT LENGTH .

ELECTRIC UNIT HEATER SCHEDULE

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

- NOTES:
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- FACTORY MOUNTED DISCONNECT AND THERMOSTAT.

PROVIDE SUMMER TIME SWITCH.

PROVIDE SEMI-RECESSED MOUNTING FRAME.

MOUNT HEATER @ 24" A.F.F.

U.L. LISTED.

AIR TERMINAL SCHEDULE (GRILLES, REGISTERS AND DIFFUSERS)

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

1 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)

ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF
PRIMARY BEDROOM	288	12	36
LIVING/DINING ROOM	578	23	96
TOTAL	866	35	132

2 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)

ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF
PRIMARY BEDROOM	269	11	54
BEDROOM #2	212	8	36
LIVING/DINING ROOM	562	22	96
TOTAL	1043	42	186

3 BEDROOM NATURAL VENTILATION CALCULATIONS (402.2 NCMC 2018)

ROOM	SF	REQUIRED SF @ 4% OPENINGS	PROVIDED OPENINGS SF
PRIMARY BEDROOM	222	9	36
BEDROOM #2	169	7	36
BEDROOM #3	169	7	36
LIVING/DINING ROOM	639	26	96
TOTAL	1199	48	204



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Hendersonville, NC 28792
Luis Graef: President



PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:

MECHANICAL
SCHEDULES

SHEET #:
M-01

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The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

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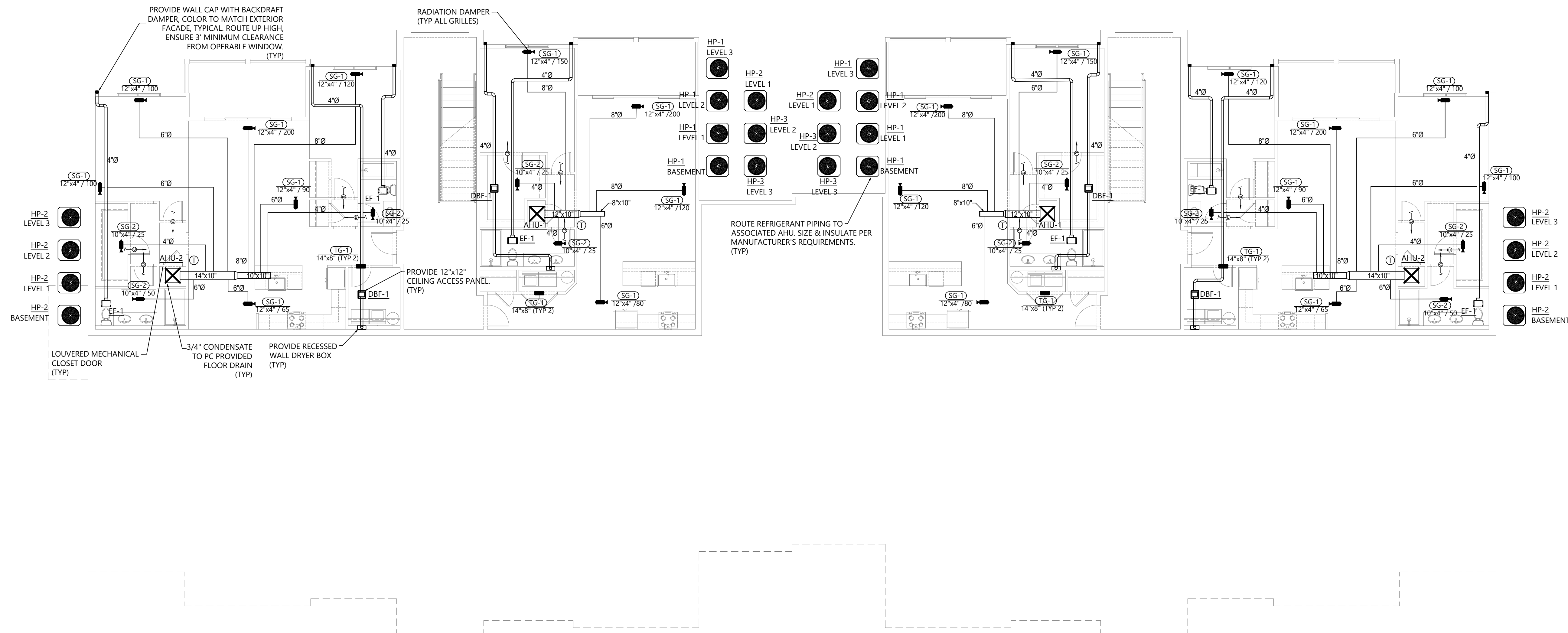
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ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DESCRIPTION:
MECHANICAL PLAN -
BASEMENT -
BUILDINGS 5 & 7

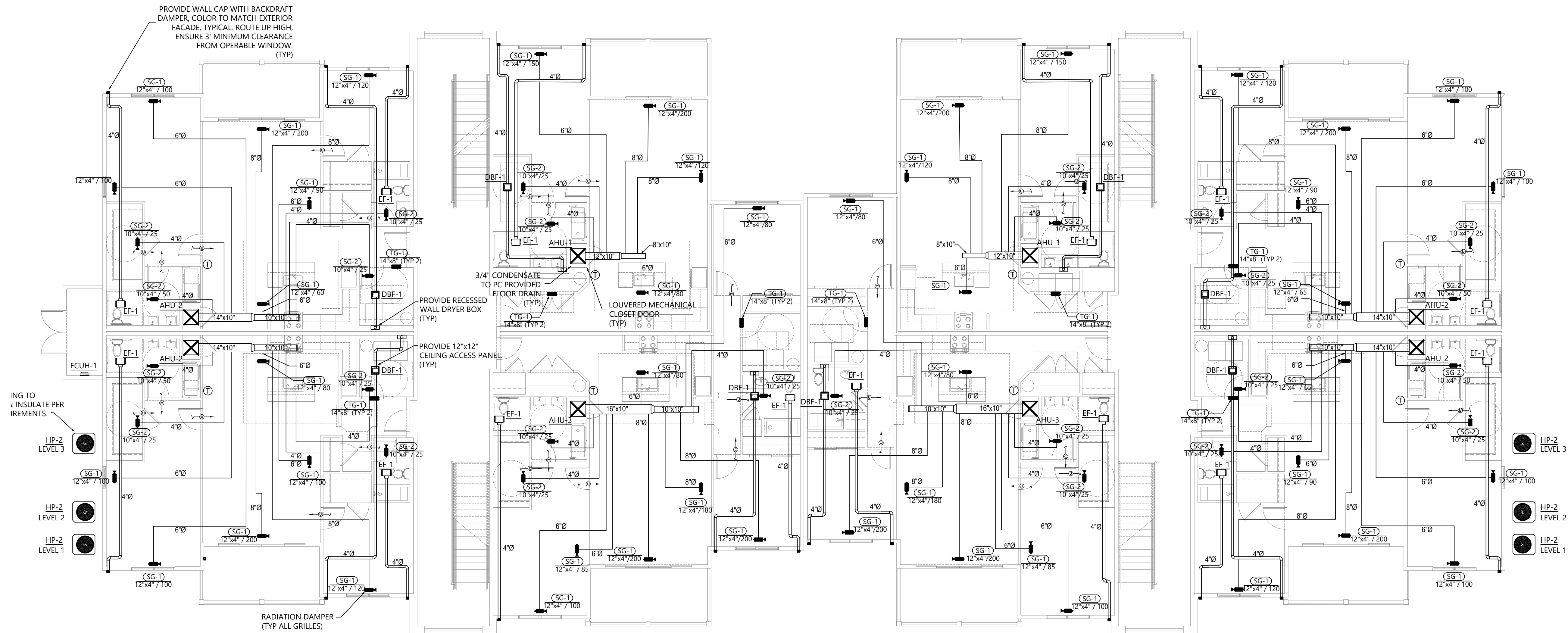
SHEET #:

M-1

WILDE # 24-125



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - BASEMENT
1/8"=1'-0"



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - FIRST FLOOR
1/8" = 1'-0"

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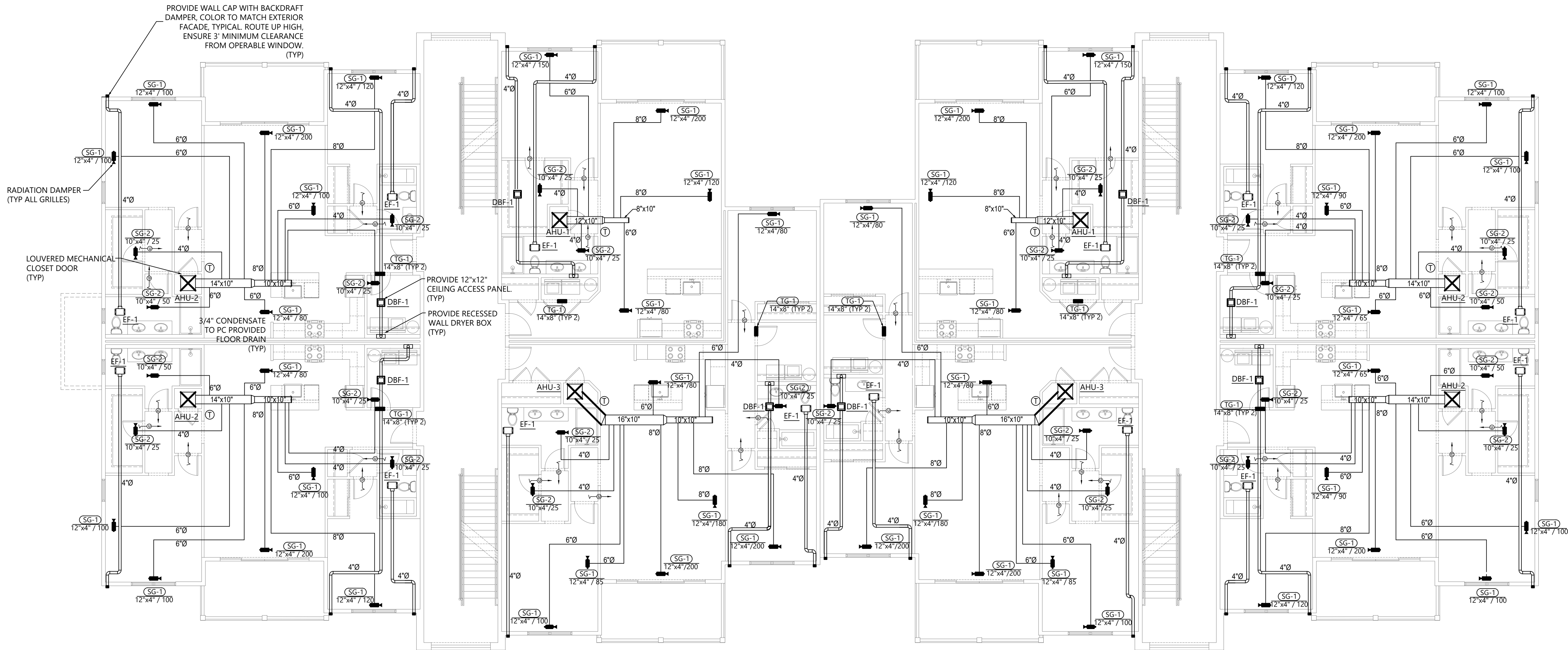
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Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
MECHANICAL PLAN -
FIRST FLOOR -
BUILDINGS 5 & 7

SHEET #:
M-2



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - SECOND FLOOR
1/8"=1'-0"

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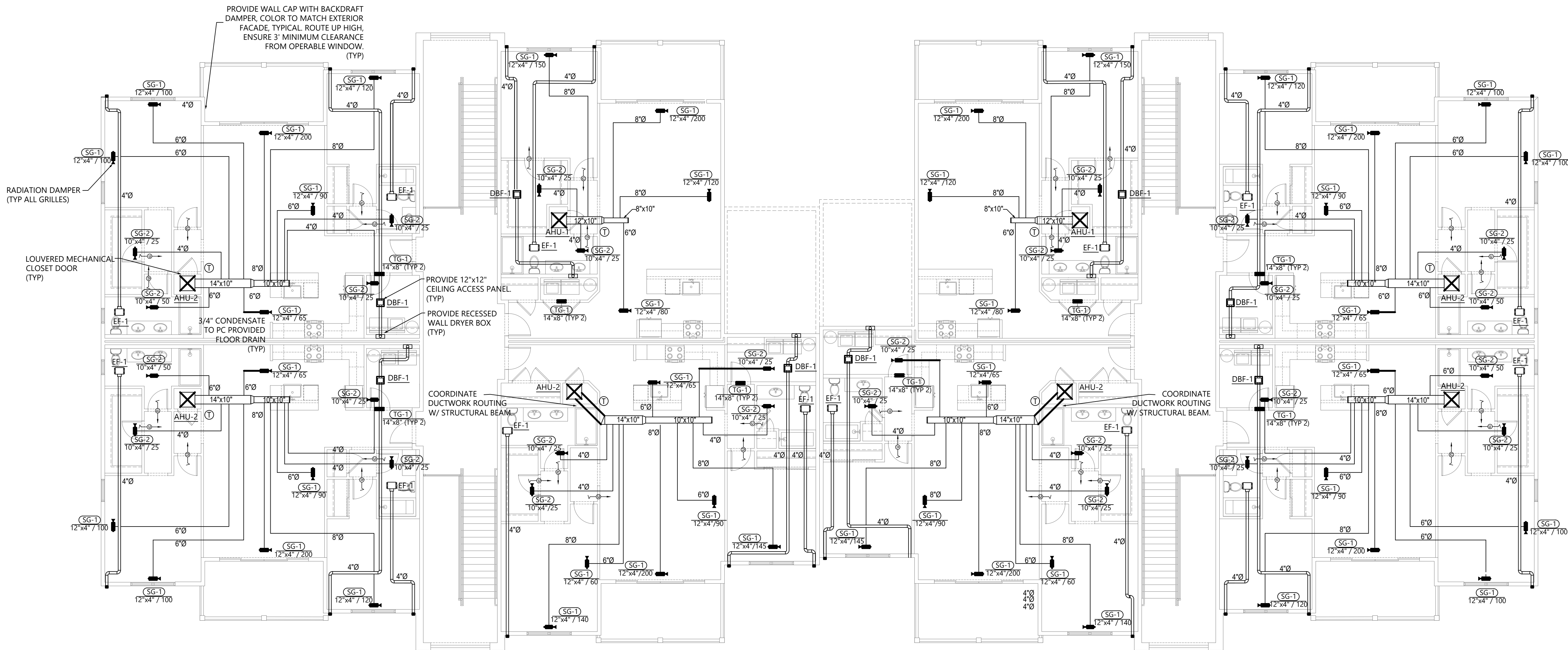
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DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
DRAWN BY: RS
CHECKED BY: JK

DWG DESCRIPTION:
MECHANICAL PLAN -
SECOND FLOOR -
BUILDINGS 5 & 7

SHEET #:
M-3



1 MECHANICAL PLAN - BUILDINGS 5 & 7 (28 UNIT BUILDING) - THIRD FLOOR
1/8" = 1'-0"

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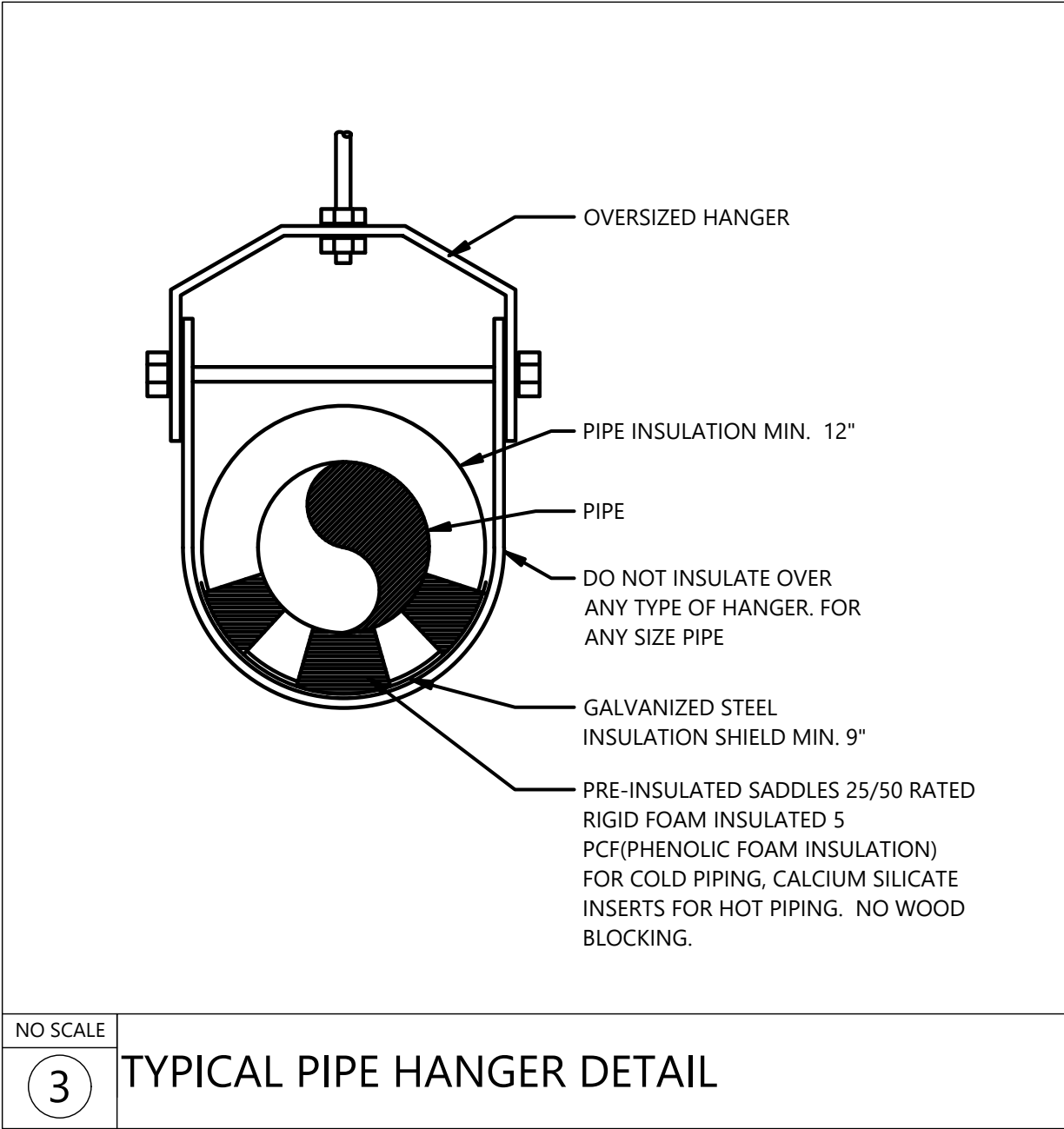
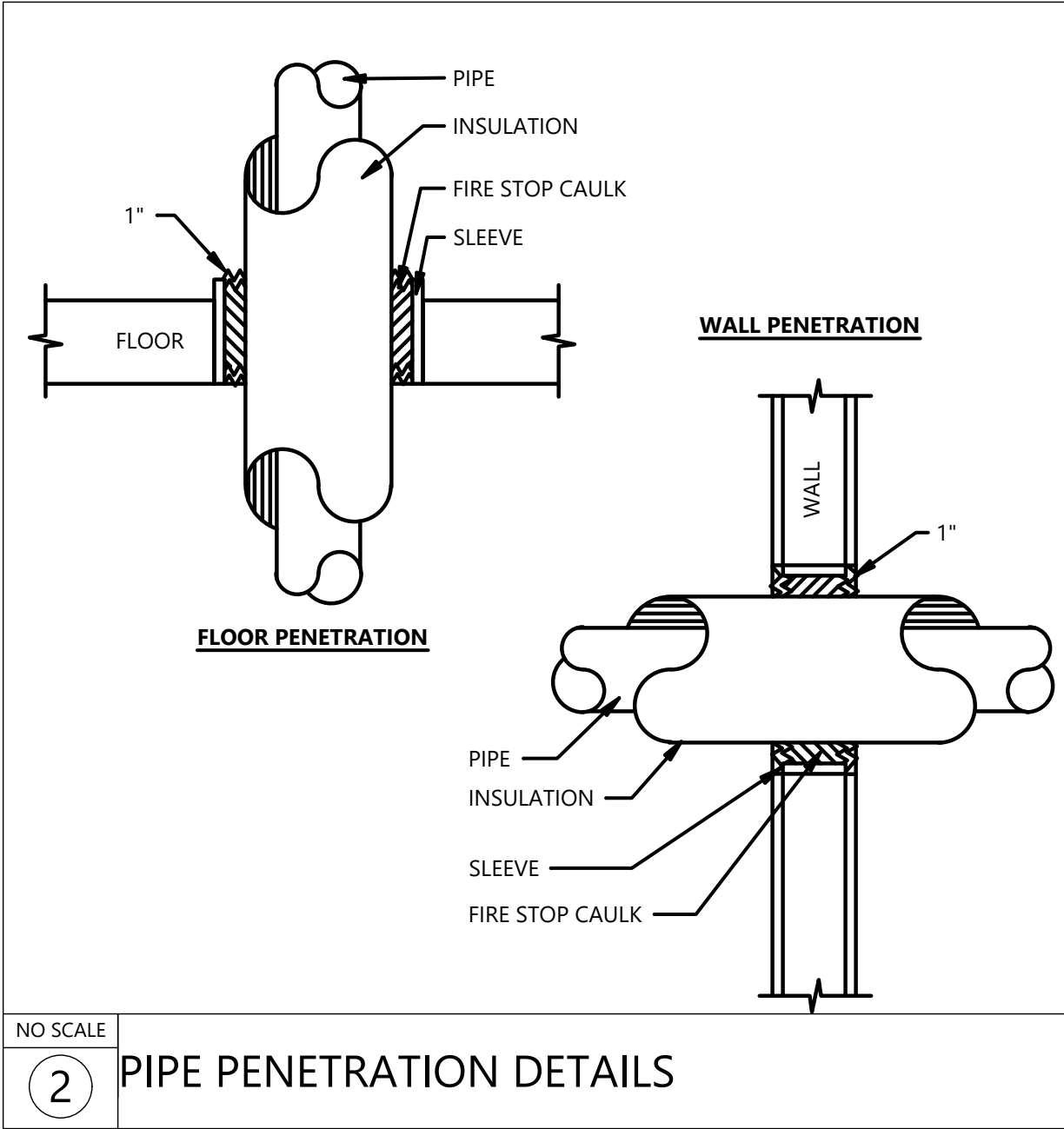
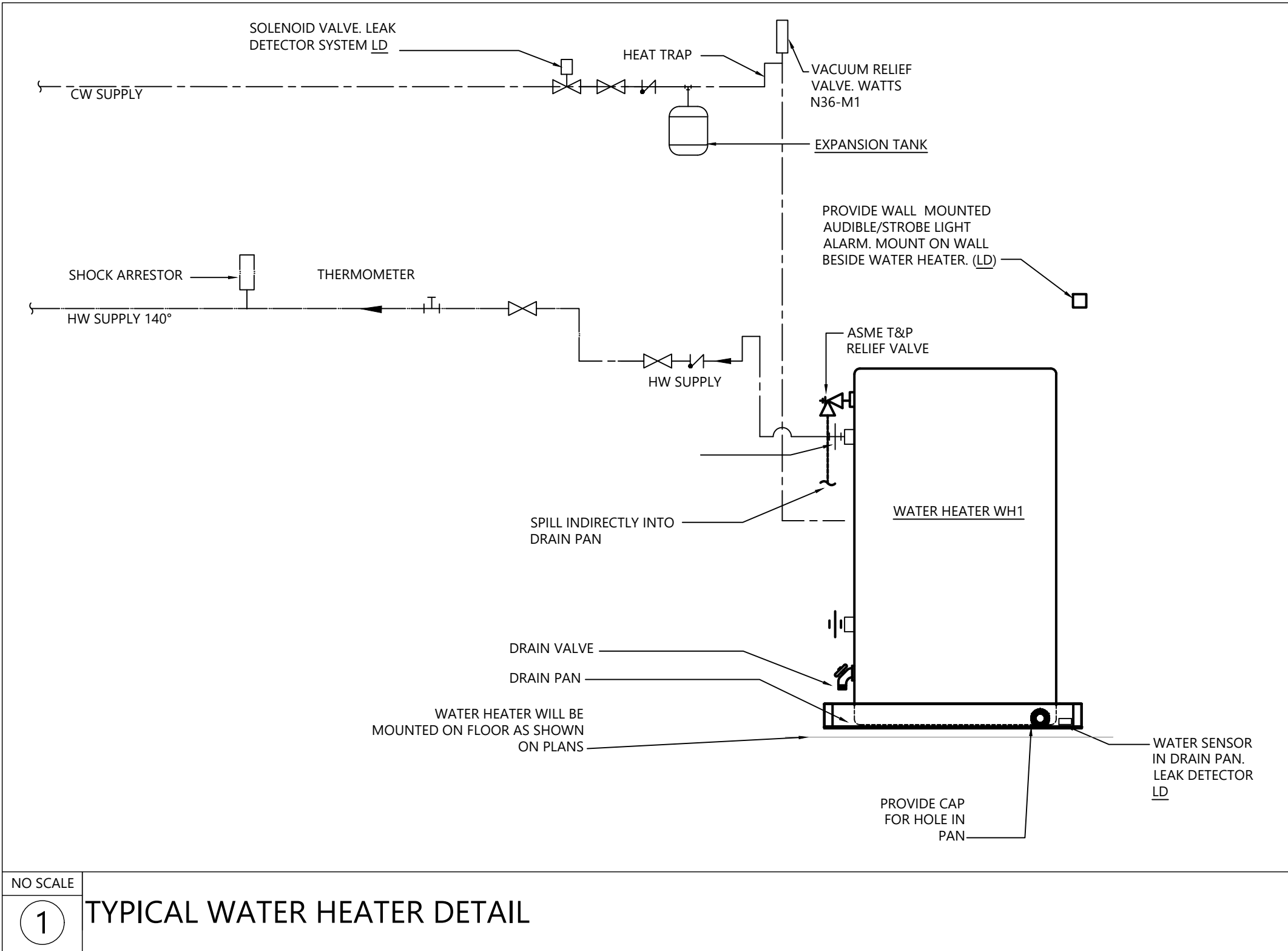
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Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION:
MECHANICAL PLAN -
THIRD FLOOR -
BUILDINGS 5 & 7

SHEET #:
M-4



PLUMBING FIXTURE SCHEDULE															
TAG		MANUFACTURER	MODEL	WATER CONSUMPTION	FINISH	ADA	MOUNTING	CONNECTION	OPERATION	ACCESSORIES	RUNOUT PIPE SIZE				COMMENTS
											CW	HW	W	V	
WATER CLOSET	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	3/4"	-	3"	2"	-
LAVATORY	LAV-1 BOWL	AMERICAN STANDARD	RELJANT DROP-IN/0476228	-	WHITE VITREOUS CHINA	YES	DROP IN	4" CENTERS	FAUCET	-	1/2"	1/2"	1-1/4"	1-1/4"	-
	LAV-1 FAUCET	KOHLER	BELLERA/K-27378-4N	.5 GPM EPA "WATERSENSE"	POLISHED CHROME	YES	DECK	4" CENTERS	MANUAL	ASSE 1070 THERMOSTATIC MIXING VALVE					-
KITCHEN SINK	SK-1 BOWL	KOHLER	STACCATO/K-3362-1	-	STAINLESS STEEL	YES	DROP IN	SINGLE HOLE	FAUCET	-	-	-	1-1/2"	1-1/2"	-
	SK-1 FAUCET	KOHLER	CRUE/K-22972	1.5 GPM EPA "WATERSENSE"	POLISHED CHROME	YES	DECK	SINGLE HOLE	MANUAL	-	1/2"	1/2"	-	-	-
SHOWER	SH-1 FAUCET	KOHLER	PURIST/K-22170-G	1.75 GPM EPA "WATERSENSE"	POLISHED CHROME	-	WALL	-	MANUAL	PRESSURE BALANCED SHOWER VALVE	1/2"	1/2"	2"	1-1/2"	-
WALL CLEANOUT	WCO	ZURN	Z1446	-	CAST IRON	-	WALL	-	MANUAL	-	-	-	4"	2"	-
FLOOR DRAIN	FD-1	ZURN	Z4158	-	CAST IRON	-	FLOOR	-	-	-	-	-	4"	2"	-

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

PLUMBING LEGEND			
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	
	D	DRAIN	
	-	ELBOW DOWN	
	-	ELBOW UP	
	-	PIPE CONTINUES	
	-	BALL VALVE	
	CV	CHECK VALVE	
	FCO	FLOOR CLEAN OUT	
	WCO	WALL CLEAN OUT	
	YCO	YARD CLEAN OUT	
	HB	HOSE BIBB/WALL HYDRANT	
	SA-#	SHOCK ARRESTOR - SUFFIX INDICATES PDI SIZE	
	-	THERMOMETER	
	-	PRESSURE GAUGE	
ADDITIONAL ABBREVIATIONS			
ABV	ABOVE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
AFG	ABOVE FINISHED GRADE	MBH	1,000 BTUH
BAS	BUILDING AUTOMATION SYSTEM	MFG	MANUFACTURER
BEL	BELOW	MH	MOUNTING HEIGHT
BFF	BELOW FINISHED FLOOR	PH	PHASE
BTUH	BRITISH THERMAL UNIT / HOUR	PSI	POUNDS PER SQUARE INCH
CFH	CUBIC FEET PER HOUR	SF	SQUARE FEET
CLG	CEILING	SFU	SUPPLY FIXTURE UNITS
CONT	CONTINUATION	T&P	TEMPERATURE AND PRESSURE
DFU	DRAINAGE FIXTURE UNIT (WASTE)	TYP	TYPICAL
DN	DOWN	UR	URINAL
(E)	EXISTING	VB	VACUUM BREAKER
EX	EXISTING	VLV	VALVE
FEE	FINISHED FLOOR ELEVATION	VTR	VENT THRU ROOF
FIN	FINISH	WC	WATER COLUMN
FL	FLOOR	EC	ELECTRICAL CONTRACTOR
FR	FROM	GC	GENERAL CONTRACTOR
FU	FIXTURE UNITS	MC	MECHANICAL CONTRACTOR
GPC	GALLONS PER CYCLE (METERING)	PC	PLUMBING CONTRACTOR
GPF	GALLONS PER FLUSH		
GPM	GALLONS PER MINUTE		
HP	HORSE POWER		
INV	INVERT ELEVATION		

PLUMBING MATERIALS AND NOTES		
DOMESTIC WATER PIPING:		
1. DOMESTIC WATER PIPING AND JOINTS ABOVE GRADE: PROVIDE TYPE 1" 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"
DOMESTIC COLD WATER	1-1/2" - 4"	1"
4. DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME-SPREAD RATING OF 25 OR LESS AND A SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED. PROVIDE PVC JACKET FOR EXPOSED PIPING IN MECHANICAL ROOMS. INSULATION SHALL BE CONTINUOUS AT ALL HANGERS. PROVIDE GALVANIZED STEEL SHIELD BETWEEN PIPE HANGER AND INSULATION.		
5. PROVIDE TWO-PIECE, BRONZE OR BRASS BODY, FULL PORT, 600 PSI WOG, BALL TYPE SHUT-OFF VALVES WITH BLOW-OUT PROOF STEMS AND ADJUSTABLE PACKING GLANDS. VALVES SHALL BE LEAD FREE PER NSF 61, ANNEX G REQUIREMENTS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.		
6. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.		
7. 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 BELOW GRADE: PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PVC PIPE IS <u>NOT</u> APPROVED.		
2. SANITARY WASTE/VENT ABOVE 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	
GENERAL REQUIREMENTS:	
1. 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 AREAS.	
7. 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 ANS/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 STRUCTURE. PROVIDE ACCESS DOORS FOR CONCEALED SPECIALTIES.	
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 NOT ATTACH TO THE DECK.	
16. PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY WALLS, GYPSBOARD 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:	
1. PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.	
2. 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 EQUIPMENT'S INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.	

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

- PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE:

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

PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

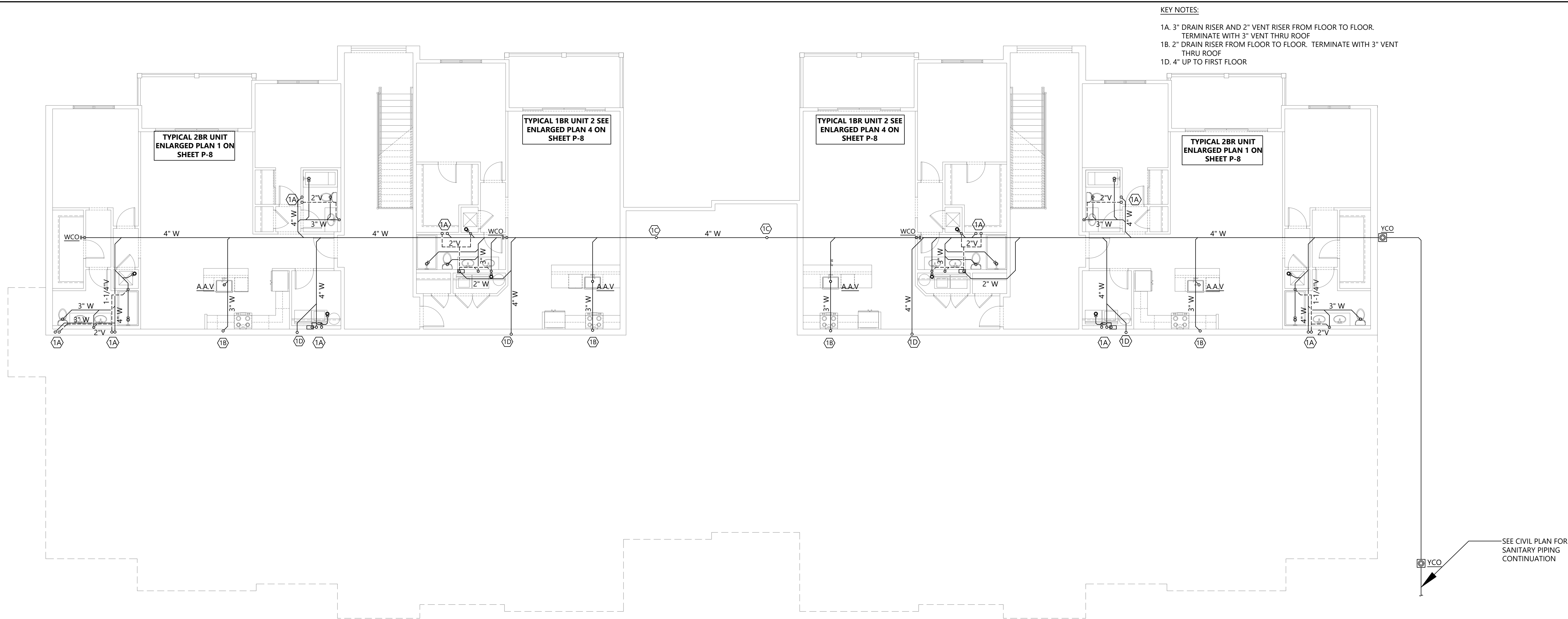
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PROJECT #: 22105
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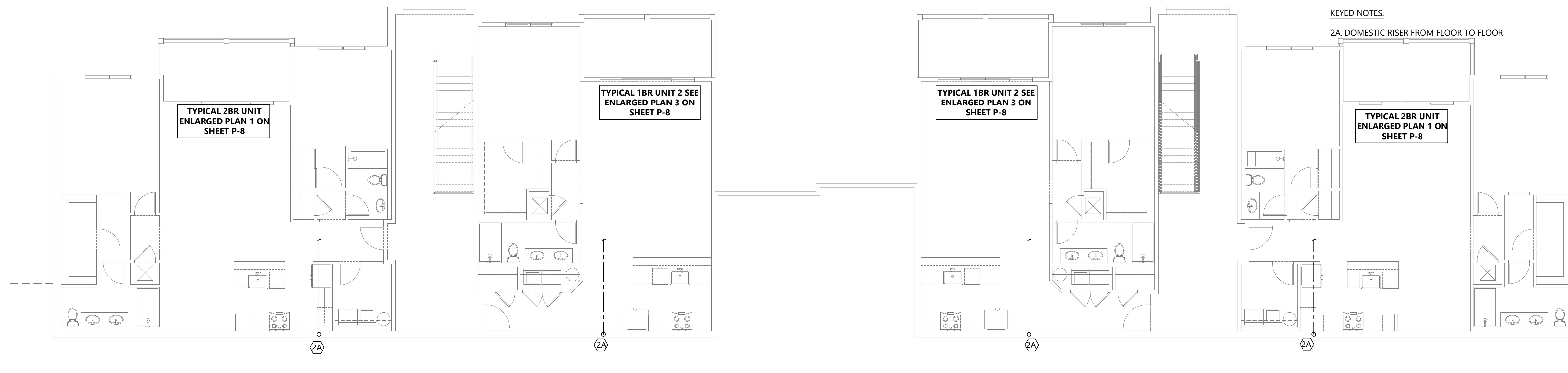
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PLUMBING COVER SHEET

SHEET #:
P-00

WILDE #: 24-125



1 PLUMBING SANITARY PLAN BLDGS 5 & 7 BASEMENT
1/8"=1'-0"



2 PLUMBING SUPPLY PLAN BLDGS 5 & 7 BASEMENT
1/8"=1'-0"

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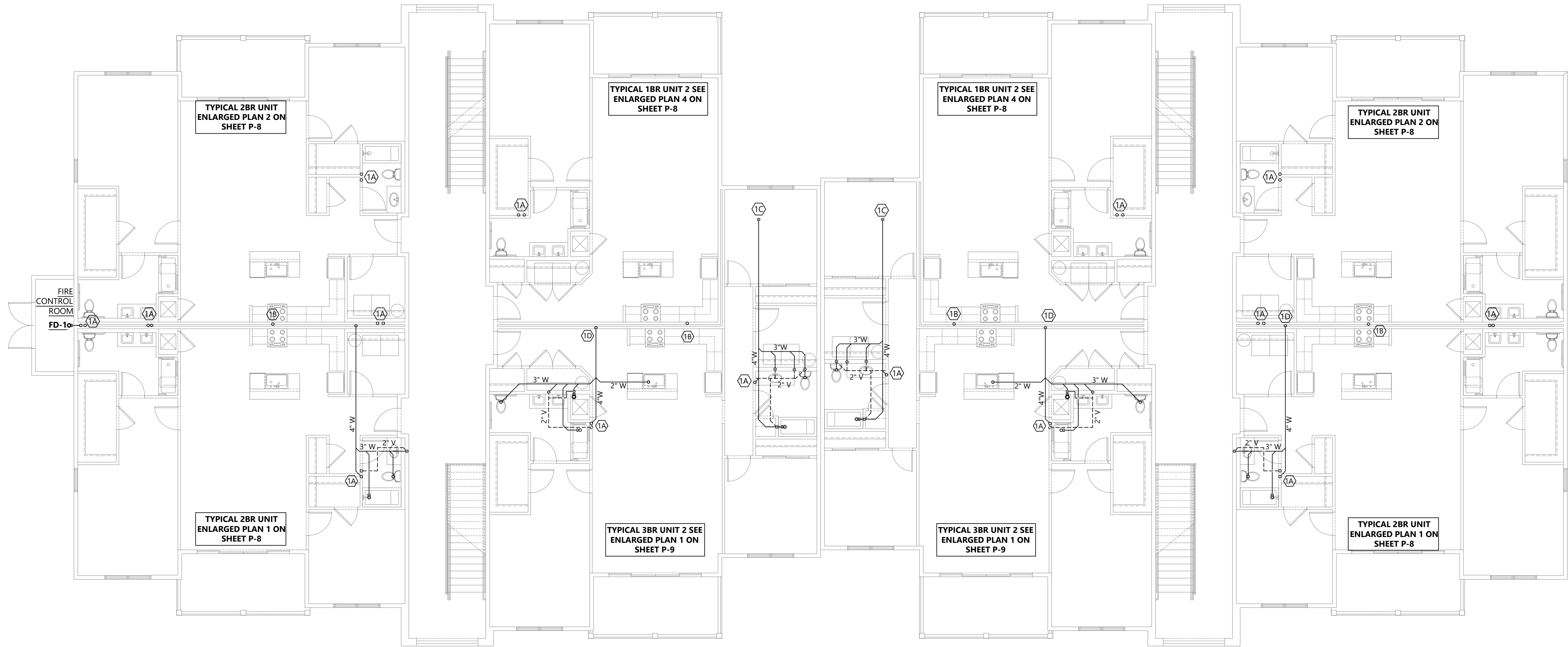
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ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
**PLUMBING SANITARY &
SUPPLY PLAN BLDGS 5
& 7 BASEMENT**

SHEET #:

P-1



- 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.

1 PLUMBING SANITARY PLAN BLDGS 5 & 7 FIRST FLOOR

1/8"=1'-0"

- PRELIMINARY -
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Luis Graef, President



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The Orchards at Naples Road
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Hendersonville, North Carolina

#	REVISIONS	DATE

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ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
PLUMBING SANITARY
PLAN BLDGS 5 & 7
FIRST FLOOR

SHEET #:
P-2

- PRELIMINARY -
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Hendersonville, North Carolina

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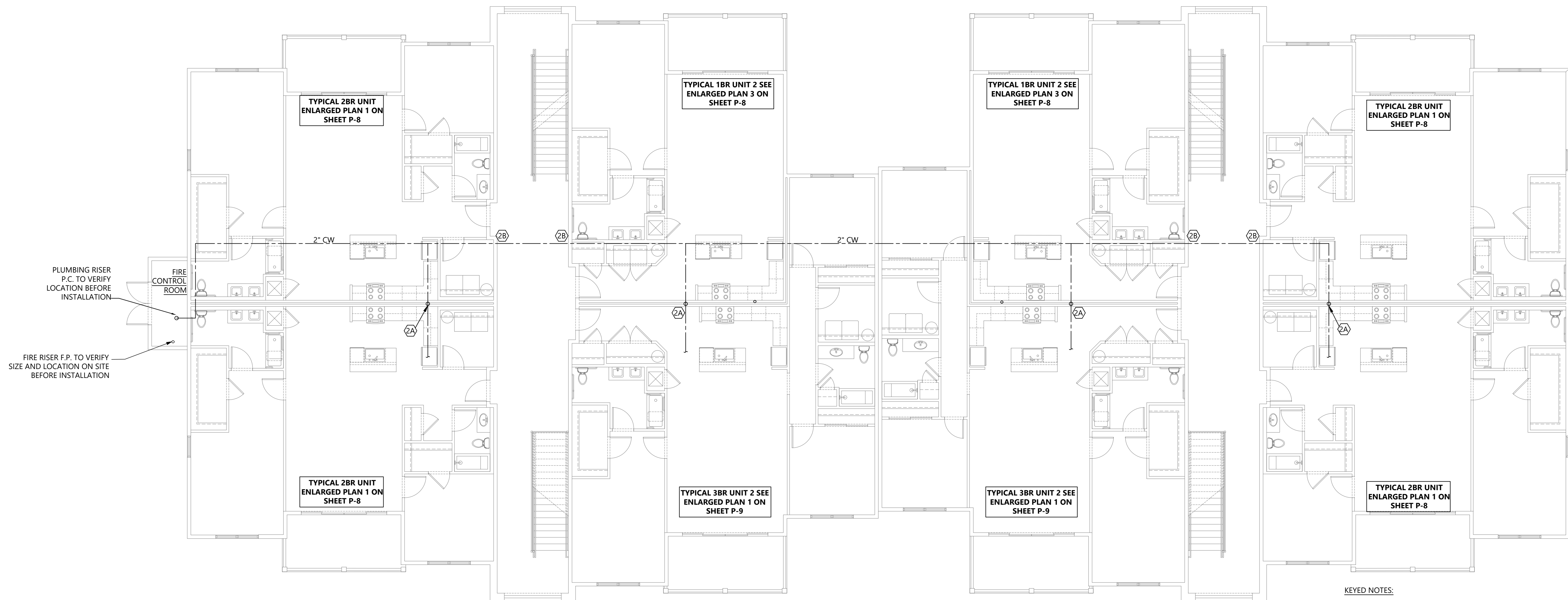
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ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
**PLUMBING SUPPLY
PLAN BLDGS 5 & 7
FIRST FLOOR**

SHEET #:

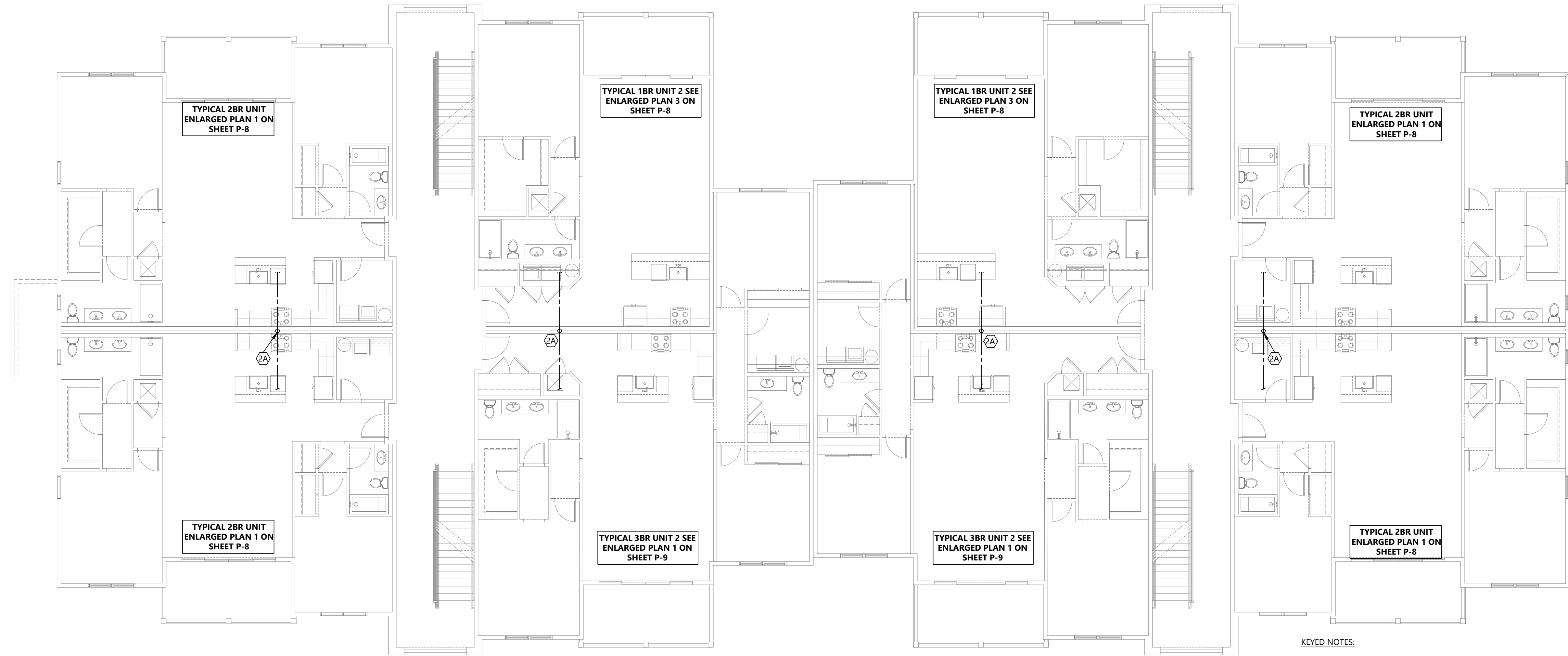
P-3

WILDE # 24-125



- KEYED NOTES:**
- 2A. DOMESTIC RISER FROM FLOOR TO FLOOR
2B. HEAT TRACE USED FOR PIPING CROSSING OVER OPEN BREEZEWAY
- 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

1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 FIRST FLOOR
1/8" = 1'-0"



1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 SECOND FLOOR
1/8"=1'-0"

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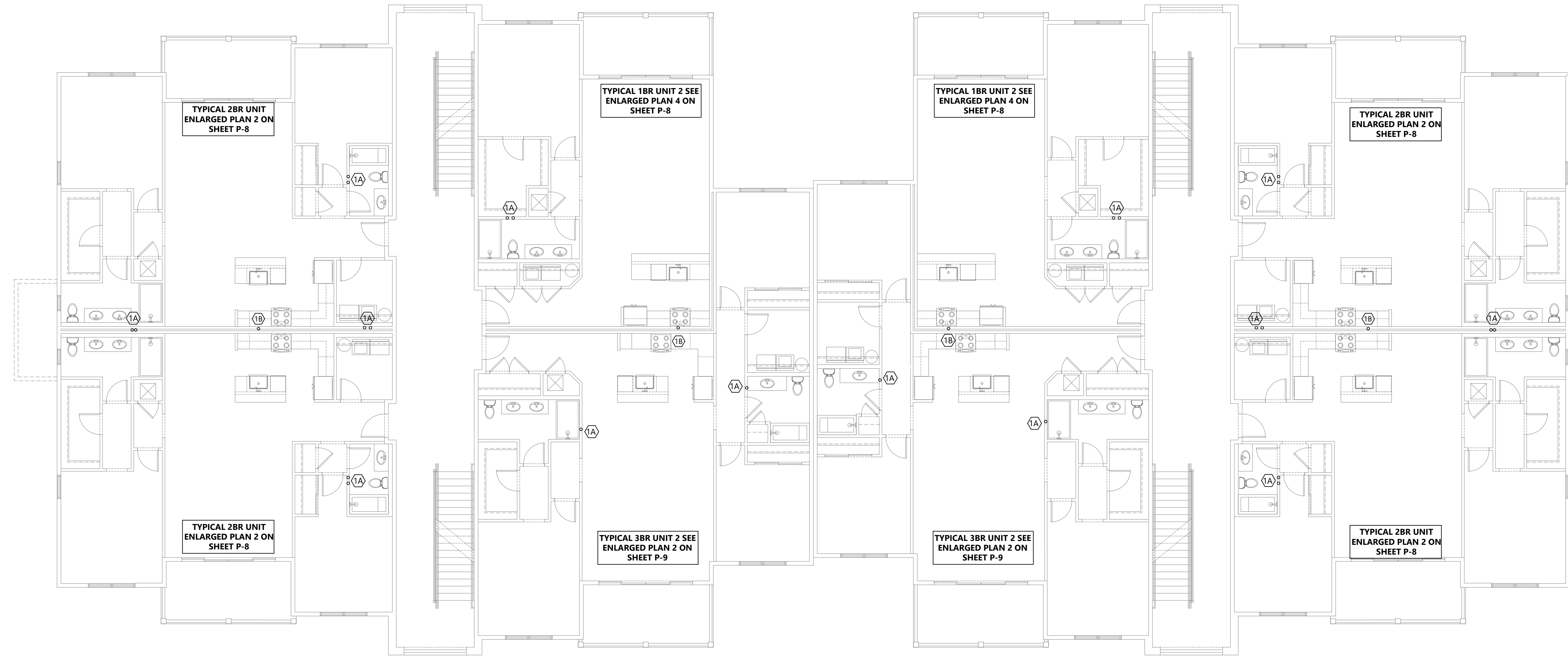
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Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
**PLUMBING SUPPLY
PLAN BLDGS 5 & 7
SECOND FLOOR**

SHEET #:
P-4



1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 SECOND FLOOR
1/8"=1'-0"

- PRELIMINARY -
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PROJECT:

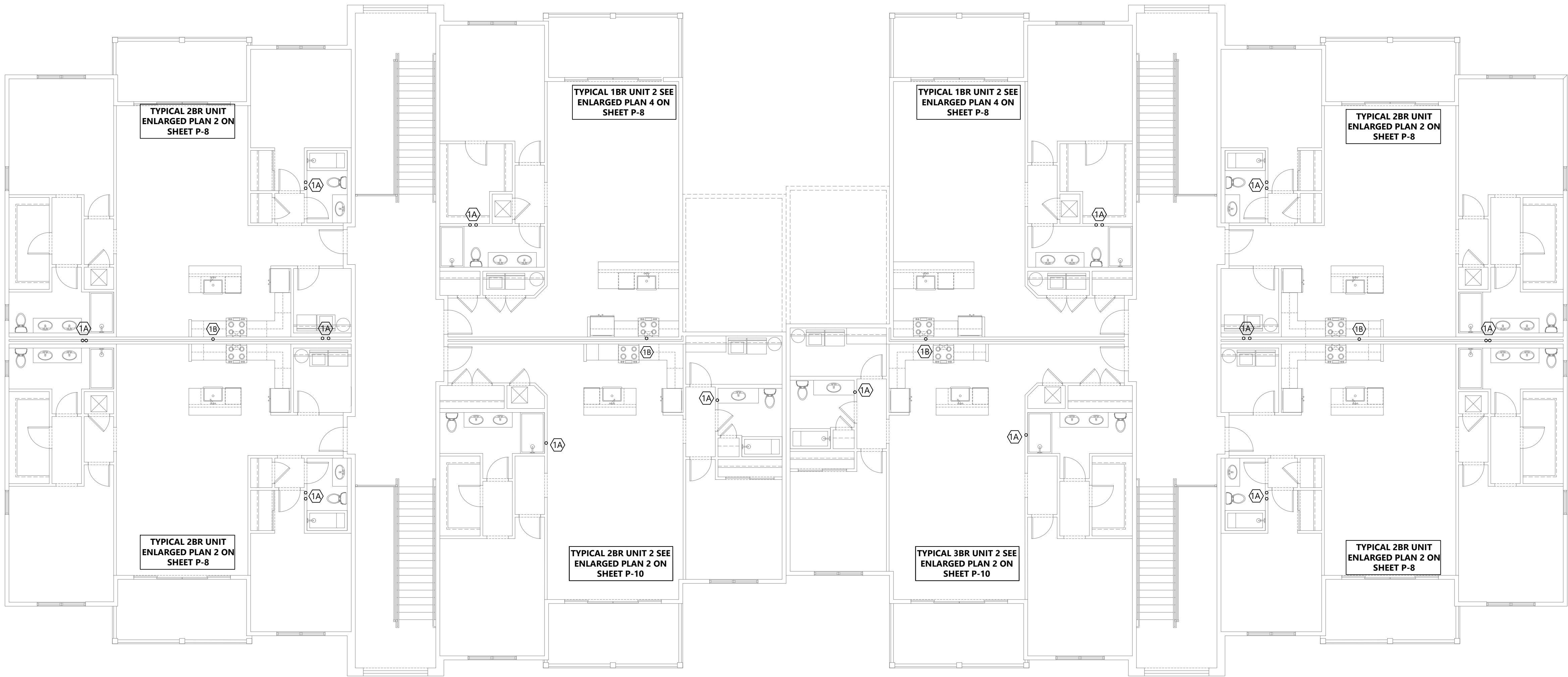
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PROJECT #: 22105
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DWG DESCRIPTION:
**PLUMBING SANITARY
PLAN BLDGS 5 & 7
SECOND FLOOR**

SHEET #:
P-5



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

1 PLUMBING SANITARY PLAN BLDGS 5 & 7 THIRD FLOOR
1/8"=1'-0"

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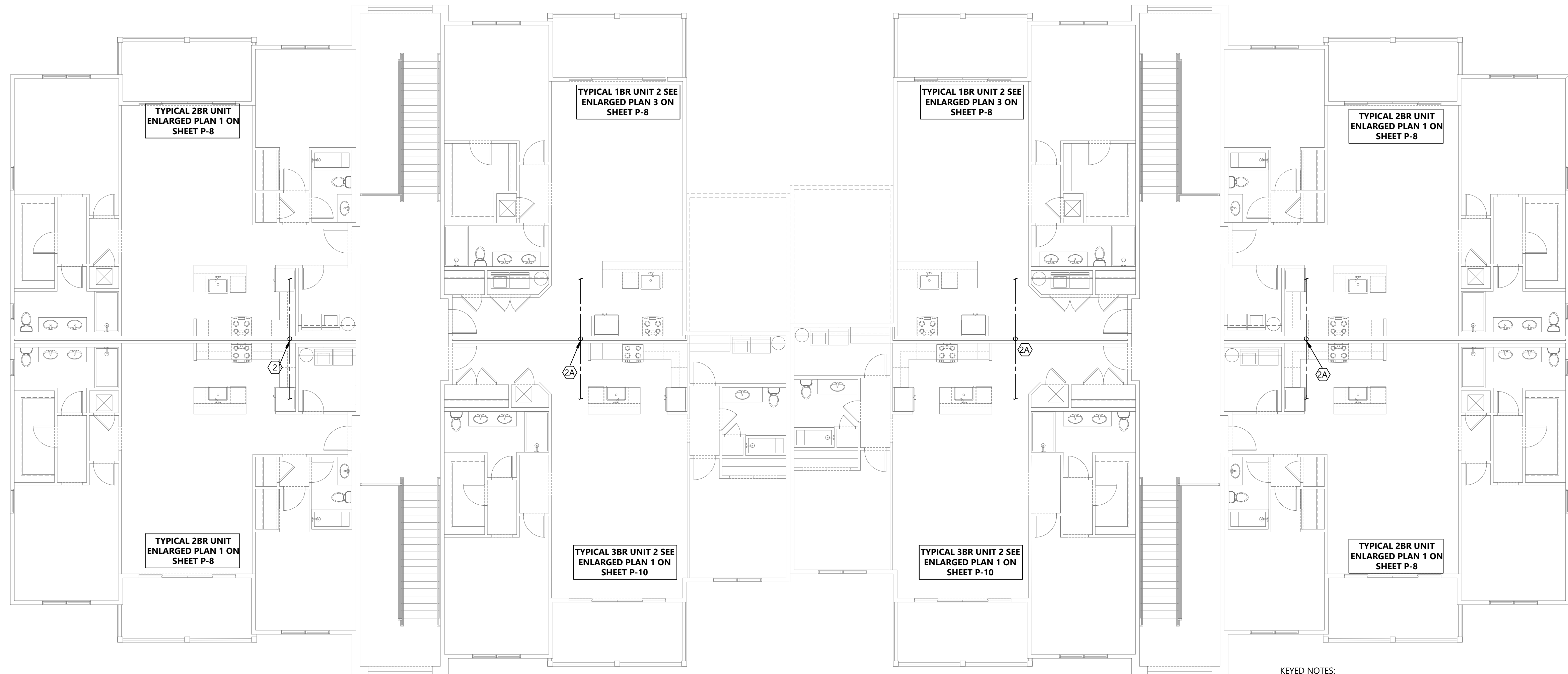
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ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
**PLUMBING SANITARY
PLAN BLDGS 5 & 7
THIRD FLOOR**

SHEET #:
P-6



KEYED NOTES:
2A. FLOOR TO FLOOR DOMESTIC RISER

1 PLUMBING SUPPLY PLAN BLDGS 5 & 7 THIRD FLOOR
1/8"=1'-0"

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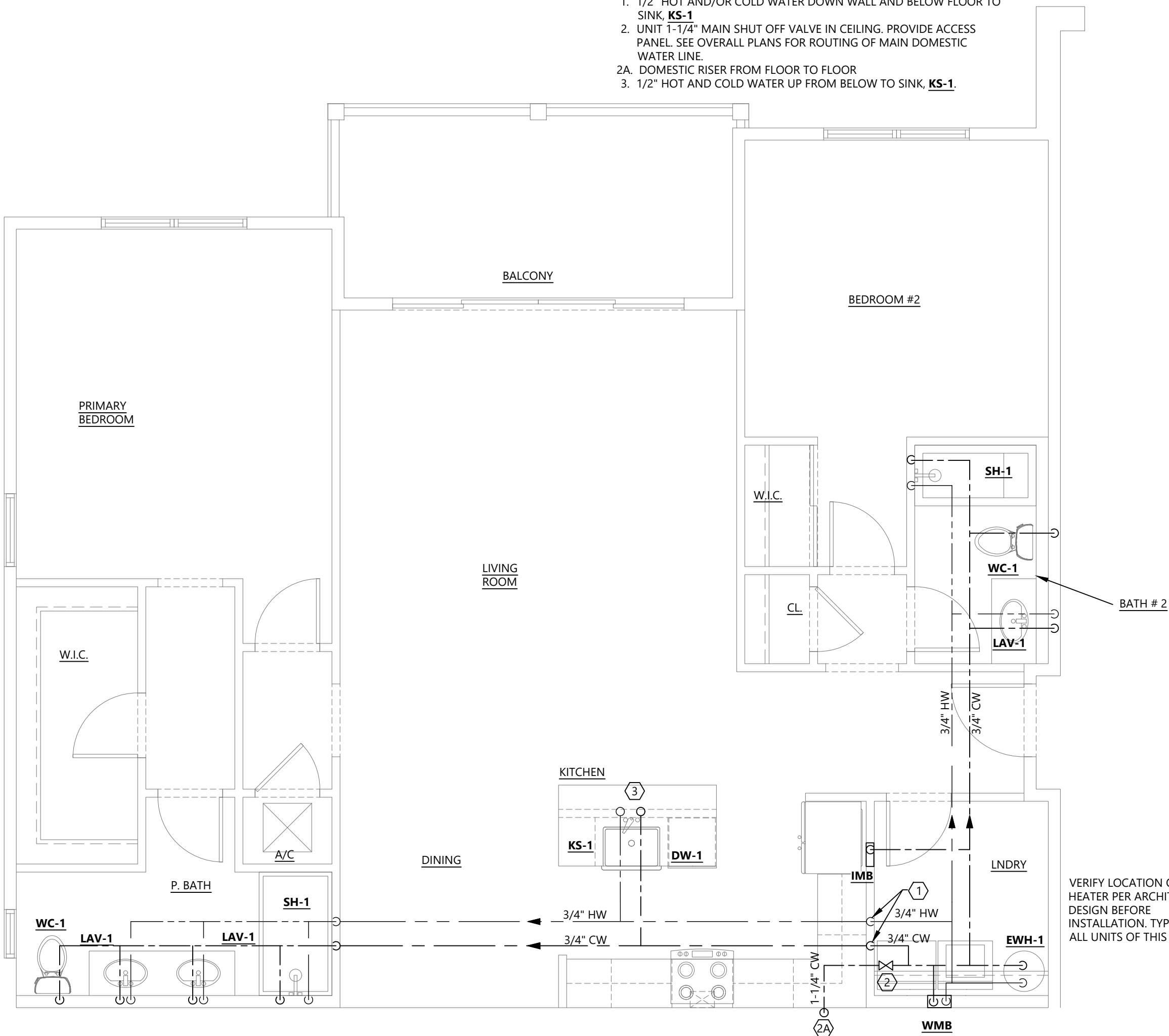
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DWG DESCRIPTION:
**PLUMBING SUPPLY
PLAN BLDGS 5 & 7
THIRD FLOOR**

SHEET #:
P-7

KEYED NOTES:

1. 1/2" HOT AND/OR COLD WATER DOWN WALL AND BELOW FLOOR TO SINK, **KS-1**
2. UNIT 1-1/4" MAIN SHUT OFF VALVE IN CEILING. PROVIDE ACCESS PANEL. SEE OVERALL PLANS FOR ROUTING OF MAIN DOMESTIC WATER LINE.
- 2A. DOMESTIC RISER FROM FLOOR TO FLOOR.
3. 1/2" HOT AND COLD WATER UP FROM BELOW TO SINK, **KS-1**.

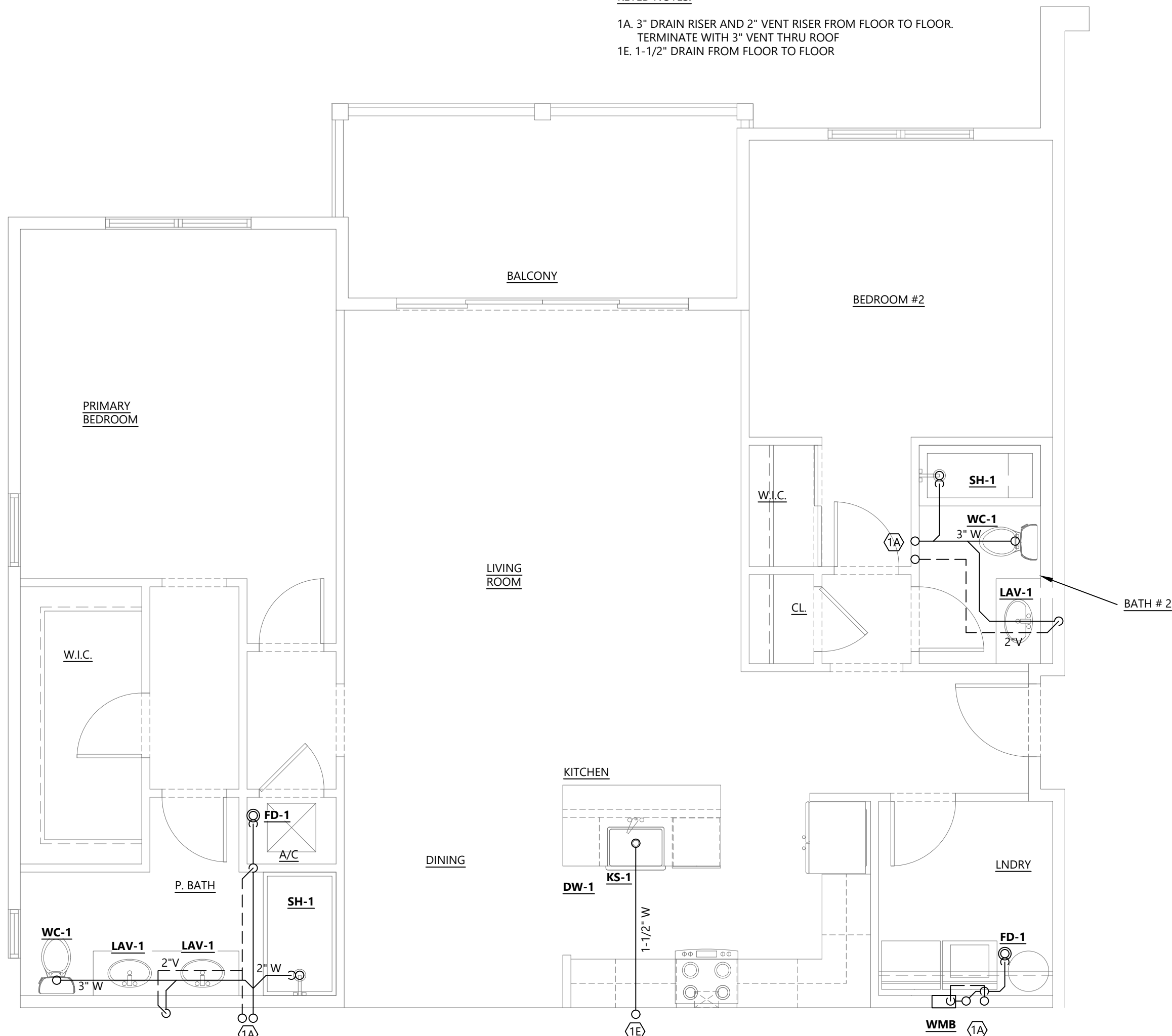


1 TYPICAL 2BR UNIT PLUMBING SUPPLY PLAN

1/4"=1'-0"

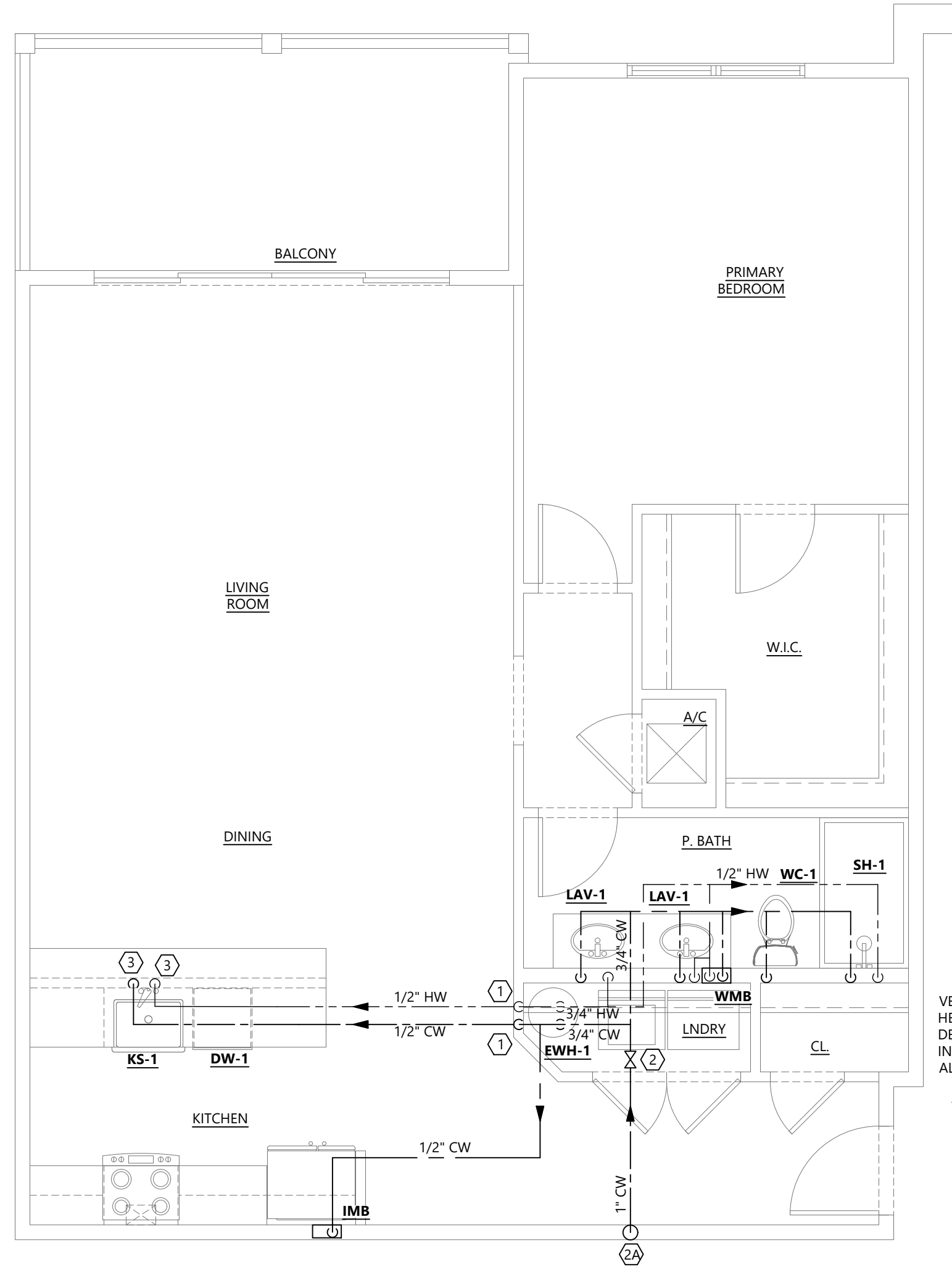
KEYED NOTES:

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



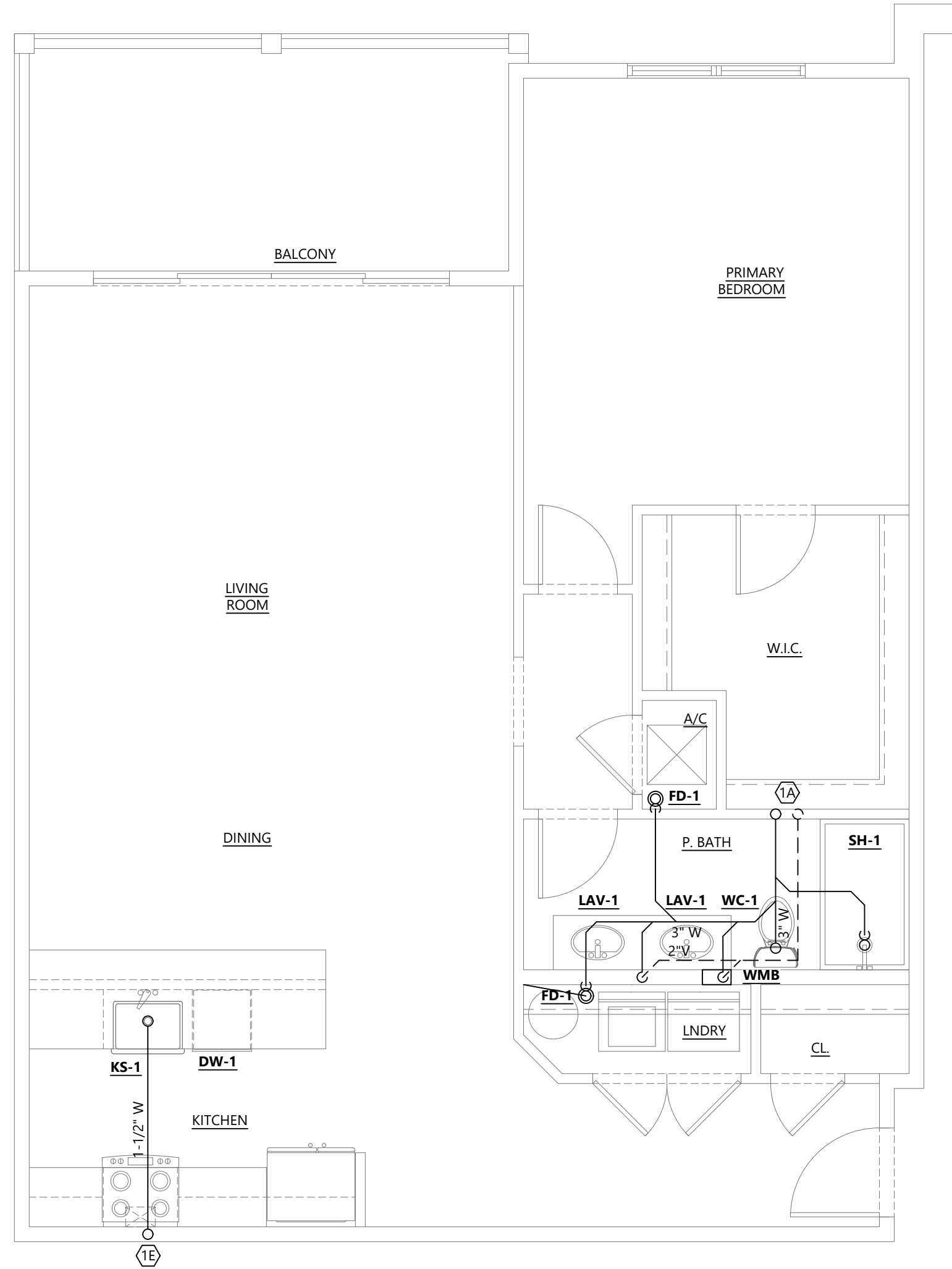
2 TYPICAL 2BR UNIT PLUMBING SANITARY PLAN

1/4"=1'-0"



3 TYPICAL 1 BR UNIT PLUMBING SUPPLY PLAN

1/4"=1'-0"



4 TYPICAL 1 BR UNIT PLUMBING SANITARY PLAN

1/4"=1'-0"

KEYED NOTES:

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

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DWG DESCRIPTION:
ENLARGED UNIT PLANS

SHEET #:
P-8

- PRELIMINARY -
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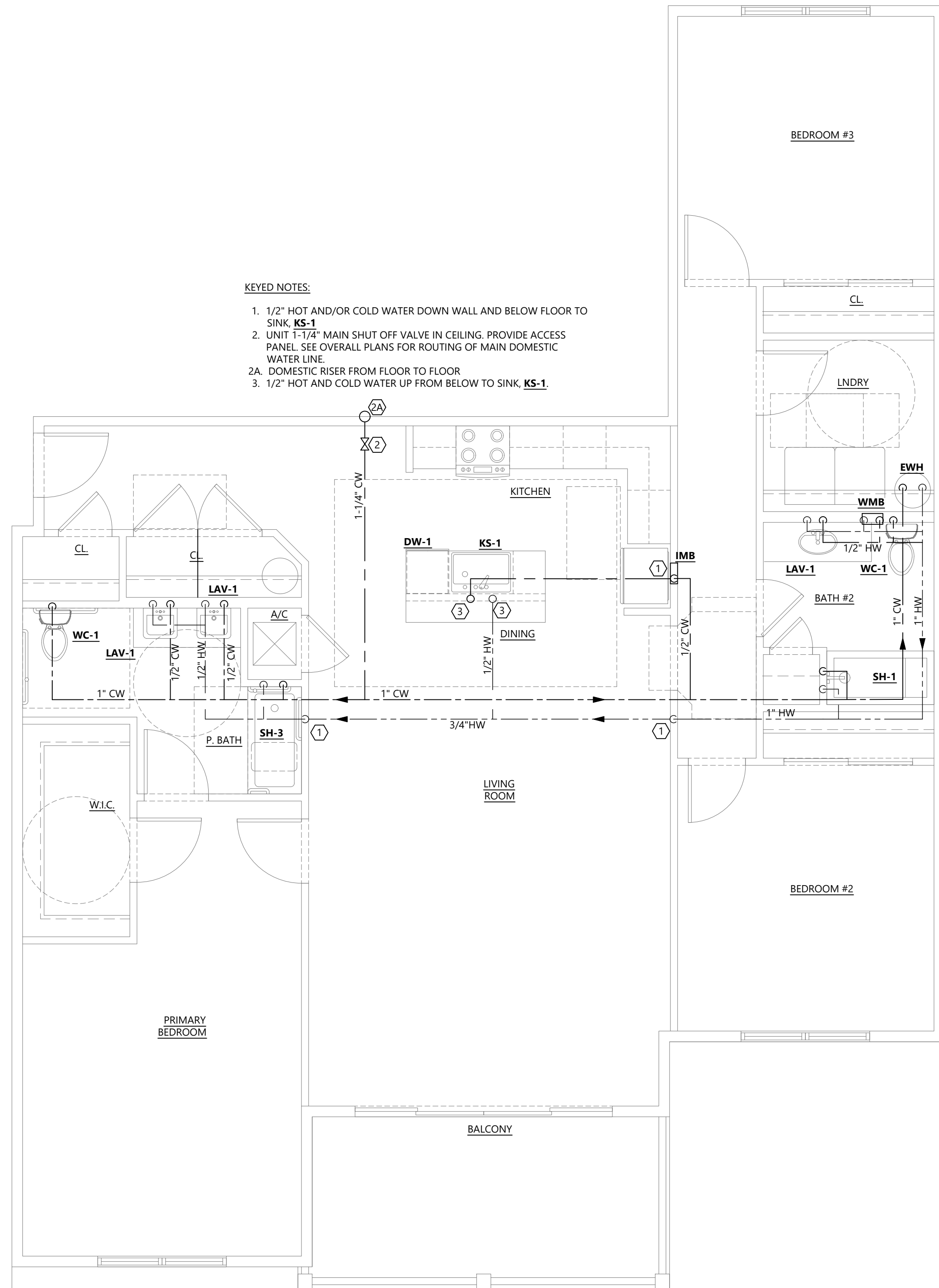
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ENLARGED UNIT
PLANS

SHEET #:

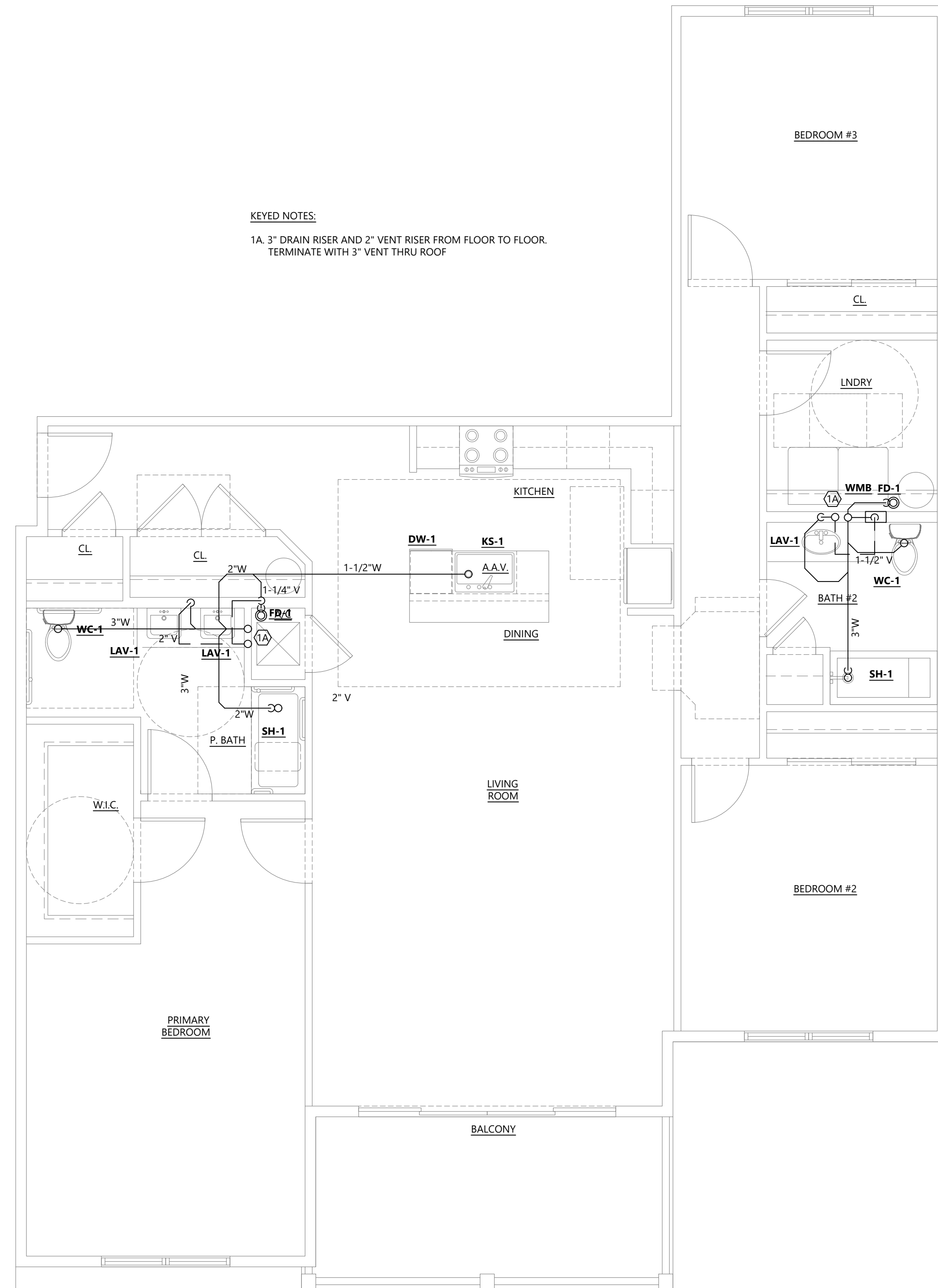
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WILDE # 24-125

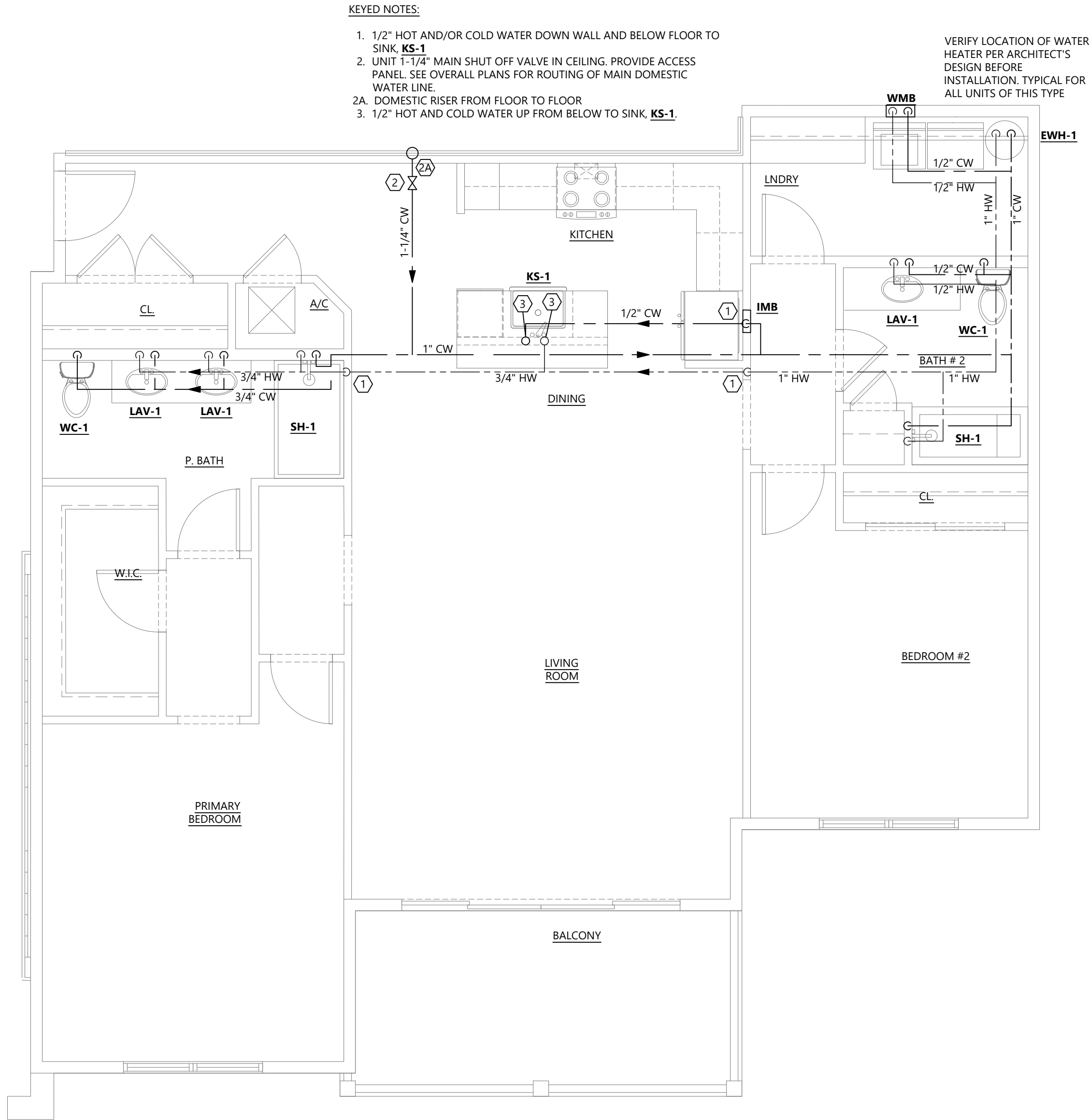


1 TYPICAL 3BR UNIT PLUMBING SUPPLY PLAN
1/4"=1'-0"

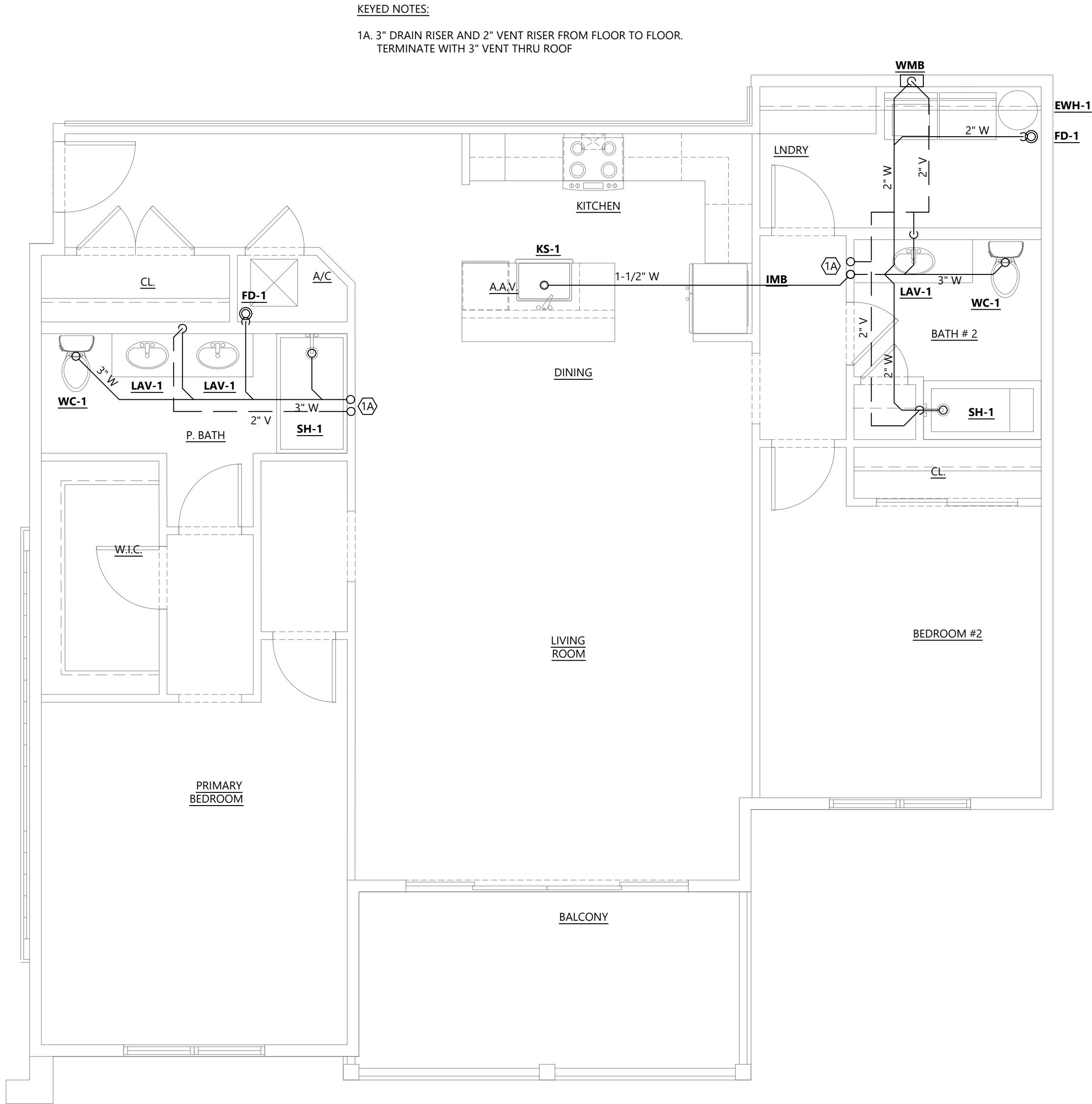
VERIFY LOCATION OF WATER
HEATER PER ARCHITECT'S
DESIGN BEFORE
INSTALLATION. TYPICAL FOR
ALL UNITS OF THIS TYPE



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



1 TYPICAL 2BR UNIT LEVEL 3 PLUMBING SUPPLY PLAN
1/4" = 1'-0"



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

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 4/11/25
PROJECT #: 22105
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DWG DESCRIPTION:
**ENLARGED UNIT
PLANS**

SHEET #:
P-10

SPRINKLER DESIGN CRITERIA

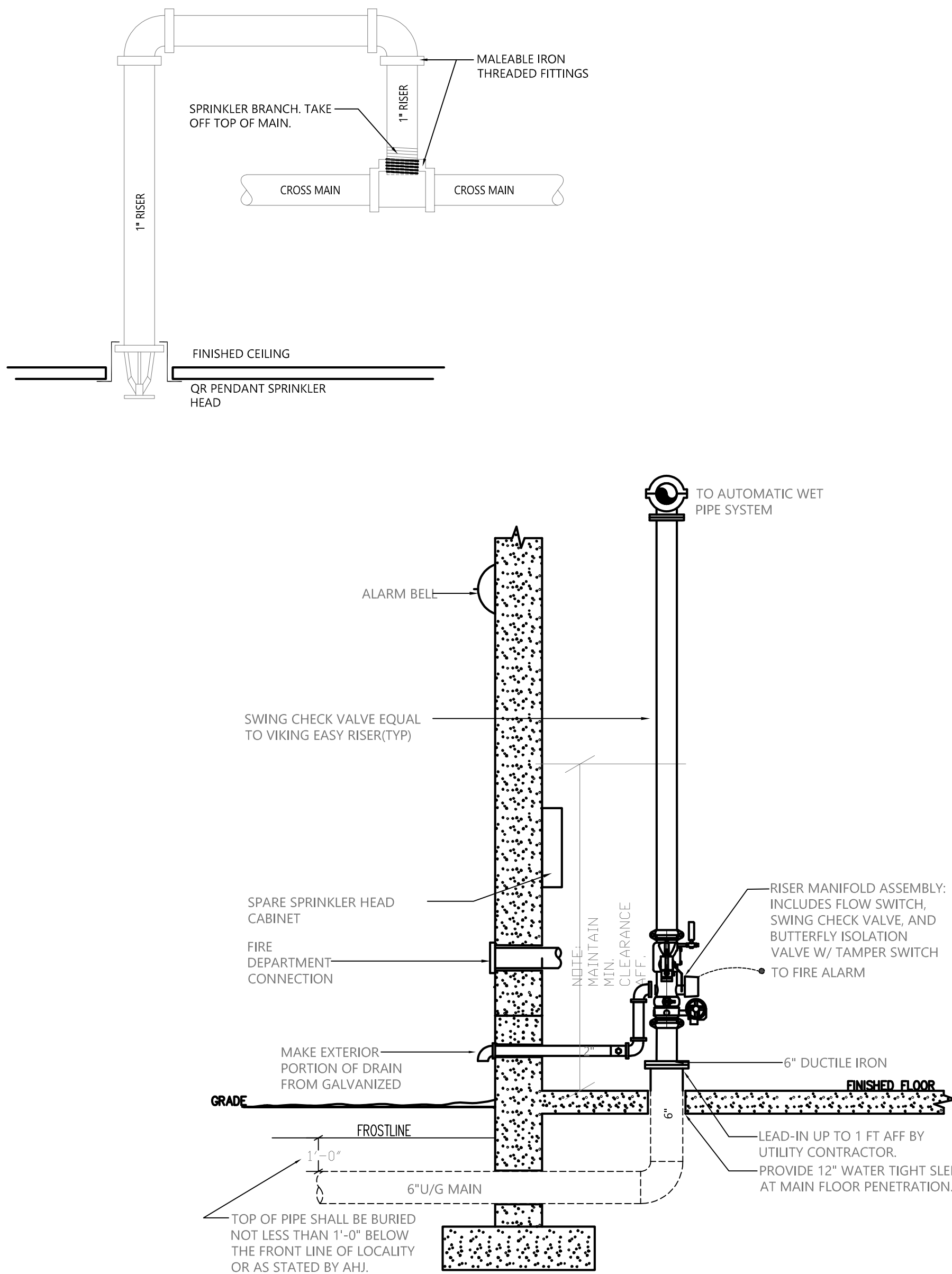
OCCUPANCY	HAZARD	REMOTE AREA	HOSE STREAM	MAX HEAD COVERAGE	REMARKS
LIGHT HAZARD	0.10 GPM/SF	1500 SF	100 GPM	225 SF/HD	QR RESIDENTIAL SPRINKLERS THROUGHOUT

- SPRINKLER CONTRACTOR SHALL VERIFY FINISH OF ESCUTCHEON/FACEPLATE WITH ARCHITECT/OWNER.
- SPRINKLER HEADS SHALL MATCH OWNER STANDARDS.
- ESCUTCHEONS SHALL BE COMPATIBLE WITH MAKE AND MODEL OF HEAD TYPES.
- ESCUTCHEONS SHALL BE INSTALLED TO ACCOUNT/ADJUST FOR CEILING TILE DEFLECTION.

- GENERAL PROJECT NOTES:
- MOUNT SPRINKLERS WITHIN CENTER OF A.C.T.
 - 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.
 - PROVIDE CONCEALED HEADS WITHIN GYPSUM CEILINGS.
 - 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

- FIRE PROTECTION CONTRACTOR TO PROVIDE DESIGN AND INSTALLATION FOR NEW FIRE SPRINKLER SYSTEMS FOR NEW APARTMENTS BUILDINGS. FIRE PROTECTION SYSTEMS SHALL BE HYDRAULICALLY CALCULATED AND DESIGNED. FIRE PORTECTION CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL NECESSARY EQUIPMENT INCLUDING PIPE, FITTINGS, VALVES AND ACCESSORIES. FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS, DESIGN OF SPRINKLER SYSTEMS, TESTING, MATERIAL AND LABOR FOR COMPLETE FIRE PROTECTION SYSTEM.
- 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.
- 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.
- OPERATION AND MAINTENANCE MANUALS TO BE PROVIDED TO THE OWNER BY THE FIRE PROTECTION CONTRACTOR.
- 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.
- 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.
- GATE VALVES WILL BE MADE OF AN IRON BODY, BRONZE TRIM, RISING OUTSIDE SCREW AND YOKE WITH SOLID WEDGE UL/FM LISTED AND APPROVED.
- 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 BREEZEWAYS IN ALL BUILDING TYPES.
- 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

- 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.
- FIRE SPRINKLER ACCEPTANCE TESTING SHALL BE PROVIDED PER NFPA-13R 2013 ED.
- SPRINKLER SYSTEM FOR THE BUILDING SHALL BE WET PIPE SPRINKLER SYSTEM, DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13R 2013 ED.
- 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.
- 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.
- 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

- 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.
- 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.
- 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.
- 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.
- THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT A SET OF NFPA SHOP DRAWINGS SHOWING THE PIPE LOUTES, 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.
- 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.
- REFER TO PLUMBING PLANS FOR RISER ROOM LOCATIONS AND BUILDING LAYOUTS



- PRELIMINARY -
NOT FOR CONSTRUCTION

SIGNATURE:

CLIENT:

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



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

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

DWG DESCRIPTION :
FIRE PROTECTION
COVER SHEET
BLDGS 5& 7

SHEET #:
FP-00