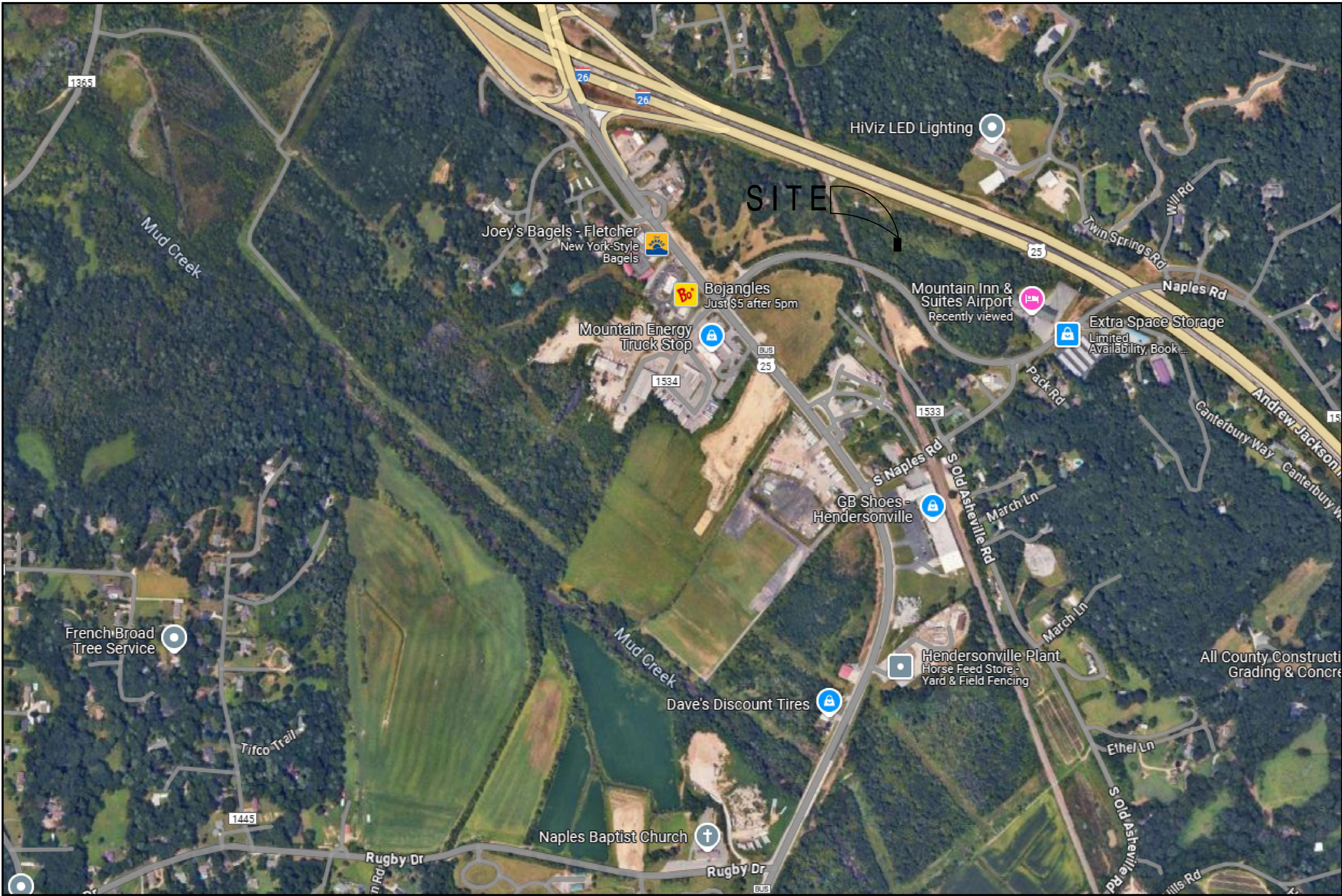


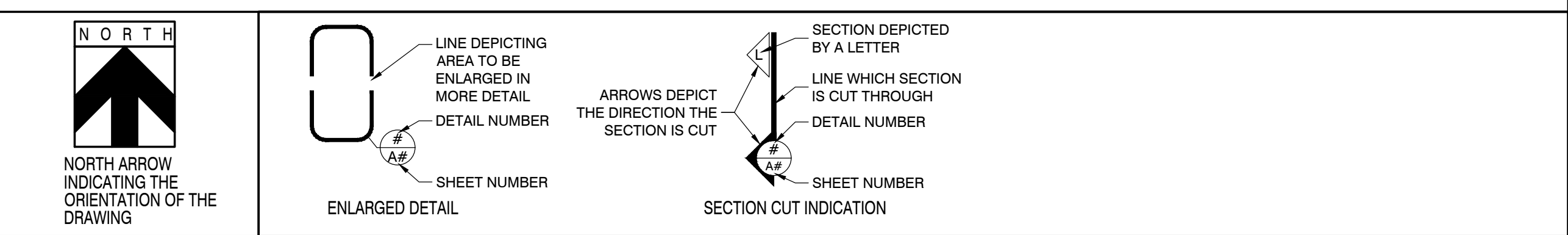
GENERAL ABBREVIATIONS

|          |  |        |                        |
|----------|--|--------|------------------------|
| 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.     | GYPSPUM                                |        |                        |
| 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                             |        |                        |
| JO.      | 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

|   |
|---|
| <b>WILDE ENGINEERING - NC FIRM LIC. NO. P-2182</b><br><b>MECHANICAL., ELECTRICAL &amp; PLUMBING (MEP)</b><br><b>15822 KELLY PARK CIRCLE</b><br><b>HUNTERSVILLE, NC</b><br><b>ph: 704-439-7038</b> |
| <b>JDH STRUCTURAL ENGINEERS PLLC -</b><br><b>NC FIRM LIC. NO. P-1593 (STRUCTURAL)</b><br><b>19545 GREENTREE WAY, SUITE B</b><br><b>CORNELIUS, NC 28031</b><br><b>ph: 704-997-7072</b>             |
| <b>WGLA ENGINEERING PLLC -</b><br><b>NC FIRM LIC. NO. P-1342 (CIVIL)</b><br><b>724 5TH AVE. WEST</b><br><b>HENDERSONVILLE, NC 28729</b><br><b>ph: 828-687-7177</b>                                |

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

SHEET INDEX

| DATE | SHEET   | SHEET TITLE  |
|------|---------|--|
|      | CS-1    | COVER SHEET - NOTES-LOCATION MAP                         |
|      |         | <b>ARCHITECTURAL</b>                                     |
|      | 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.                                 |
|      | A-5.2   | PARTIAL FRONT ELEVATION.                                 |
|      | A-5.3   | RIGHT SIDE ELEVATION.                                    |
|      | A-5.4   | PARTIAL REAR ELEVATION.                                  |
|      | A-5.5   | PARTIAL REAR ELEVATION.                                  |
|      | A-5.6   | LEFT SIDE ELEVATION.                                     |
|      | A-6.1   | BUILDING SECTION - "A-A" & SECTION DETAILS.              |
|      | A-6.2   | BUILDING SECTION - "B-B" & SECTION DETAILS.              |
|      | A-6.3   | 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. |
|      |         | <b>STRUCTURAL</b>  |
|      | S-0.00  | GENERAL NOTES.   |
|      | S-0.01  | GENERAL NOTES.   |
|      | S-1.00  | TYPICAL DETAILS.   |
|      | S-1.01  | TYPICAL DETAILS.   |
|      | S-1.02  | TYPICAL DETAILS.   |
|      | S-1.03  | TYPICAL DETAILS.   |
|      | S-2.01B | BASEMENT FOUNDATION FRAMING PLAN.                        |
|      | S-2.02  | FIRST FLOOR FOUNDATION FRAMING PLAN.                     |
|      | S-2.03  | 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.                                  |
|      | S-5.00  | ROOF FRAMING SECTIONS.                                   |
|      |         | <b>ELECTRICAL</b>  |
|      | E-01    | ELECTRICAL COVER SHEET.                                  |
|      | E-02    | ELECTRICAL SPECIFICATIONS.                               |
|      | E-03    | ELECTRICAL DETAILS.                                      |
|      | E-04    | POWER RISER DIAGRAM.                                     |
|      | E-05    | PANEL SCHEDULE & HOUSE PANEL.                            |
|      | E-10.5  | ELECTRICAL SITE PLAN.                                    |
|      | E-10.7  | ELECTRICAL SITE PLAN.                                    |
|      | E-21    | OVERALL ELECTRICAL PLAN - BASEMENT.                      |
|      | E-22    | OVERALL ELECTRICAL PLAN - FIRST FLOOR.                   |
|      | E-23    | OVERALL ELECTRICAL PLAN - SECOND FLOOR.                  |
|      | E-24    | OVERALL ELECTRICAL PLAN - THIRD FLOOR.                   |
|      | E-31    | PARTIAL ELEVATION.                                       |
|      | E-41    | ENLARGED UNIT PLAN - 1 BEDROOM.                          |
|      | E-42    | ENLARGED UNIT PLAN - 1 BEDROOM TYPE-A.                   |
|      | E-43    | ENLARGED UNIT PLAN - 2 BEDROOM TYPE-A.                   |
|      | E-44    | ENLARGED UNIT PLAN - 3 BEDROOM TYPE-A.                   |
|      | E-45    | ENLARGED UNIT PLAN - 3 BEDROOM ACCESSIBLE.               |
|      |         | <b>MECHANICAL</b>  |
|      | M-00    | MECHANICAL COVER SHEET.                                  |
|      | M-01    | MECHANICAL SCHEDULE.                                     |
|      | M-1     | MECHANICAL PLAN - BASEMENT.                              |
|      | M-2     | MECHANICAL PLAN - FIRST FLOOR.                           |
|      | M-3     | MECHANICAL PLAN - SECOND FLOOR.                          |
|      | M-4     | MECHANICAL PLAN - THRID FLOOR.                           |
|      |         | <b>PLUMBING</b>  |
|      | P-00    | PLUMBING COVER SHEET.                                    |
|      | P-1     | PLUMBING SANITARY & SUPPLY PLAN - BASEMENT.              |
|      | P-2     | PLUMBING SANITARY PLAN - FIRST FLOOR.                    |
|      | P-3     | PLUMBING SUPPLY PLAN - FIRST FLOOR.                      |
|      | P-4     | PLUMBING SUPPLY PLAN - SECOND FLOOR.                     |
|      | P-5     | PLUMBING SANITARY PLAN - SECOND FLOOR.                   |
|      | P-6     | PLUMBING SANITARY PLAN - THIRD FLOOR.                    |
|      | P-7     | PLUMBING SUPPLY PLAN - THIRD FLOOR.                      |
|      | P-8     | ENLARGED UNIT PLANS.                                     |
|      | P-9     | ENLARGED UNIT PLANS.                                     |
|      | P-10    | ENLARGED UNIT PLANS.                                     |
|      |         | <b>FIRE</b>  |
|      | FP-00   | FIRE PROTECTION COVER SHEET                              |
|      |         | <b>CIVIL</b>   |

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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 6 - 28 units  
Hendersonville, North Carolina

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

DWG DESCRIPTION:  
COVER SHEET.  
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SHEET #:  
**CS-1**

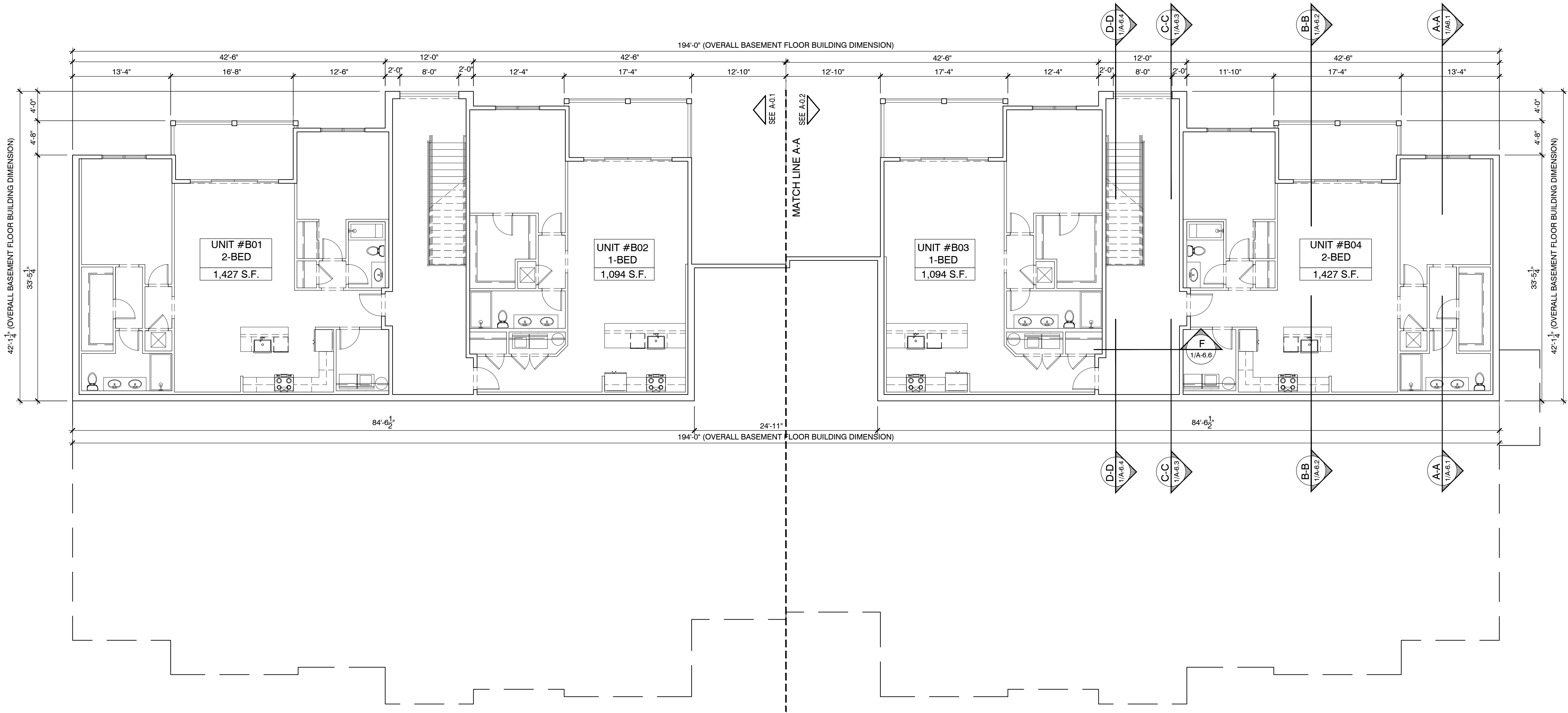


| BASEMENT WINDOW SCHEDULE |                       |               |                |       |            |                |                            |        |
|--------------------------|-----------------------|---------------|----------------|-------|------------|----------------|----------------------------|--------|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

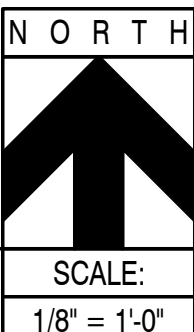
| BASEMENT EXTERIOR DOOR SCHEDULE |                 |                |                  |       |              |      |             |        |
|---------------------------------|-----------------|----------------|------------------|-------|--------------|------|-------------|--------|
| No.                             | TYPE            | Wx H           | R. O.<br>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.        |                   |             |                       |



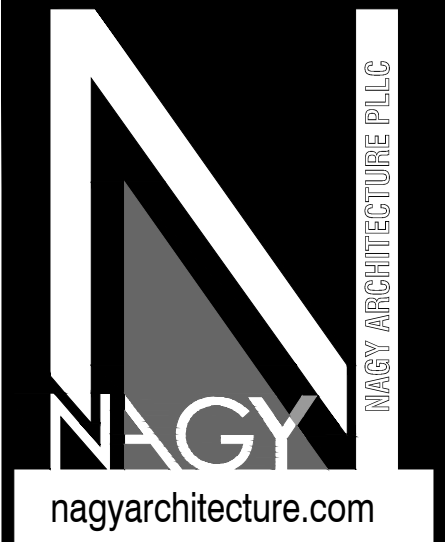
OVERALL BASEMENT FLOOR PLAN



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

1

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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 6 - 28 units  
Hendersonville, North Carolina

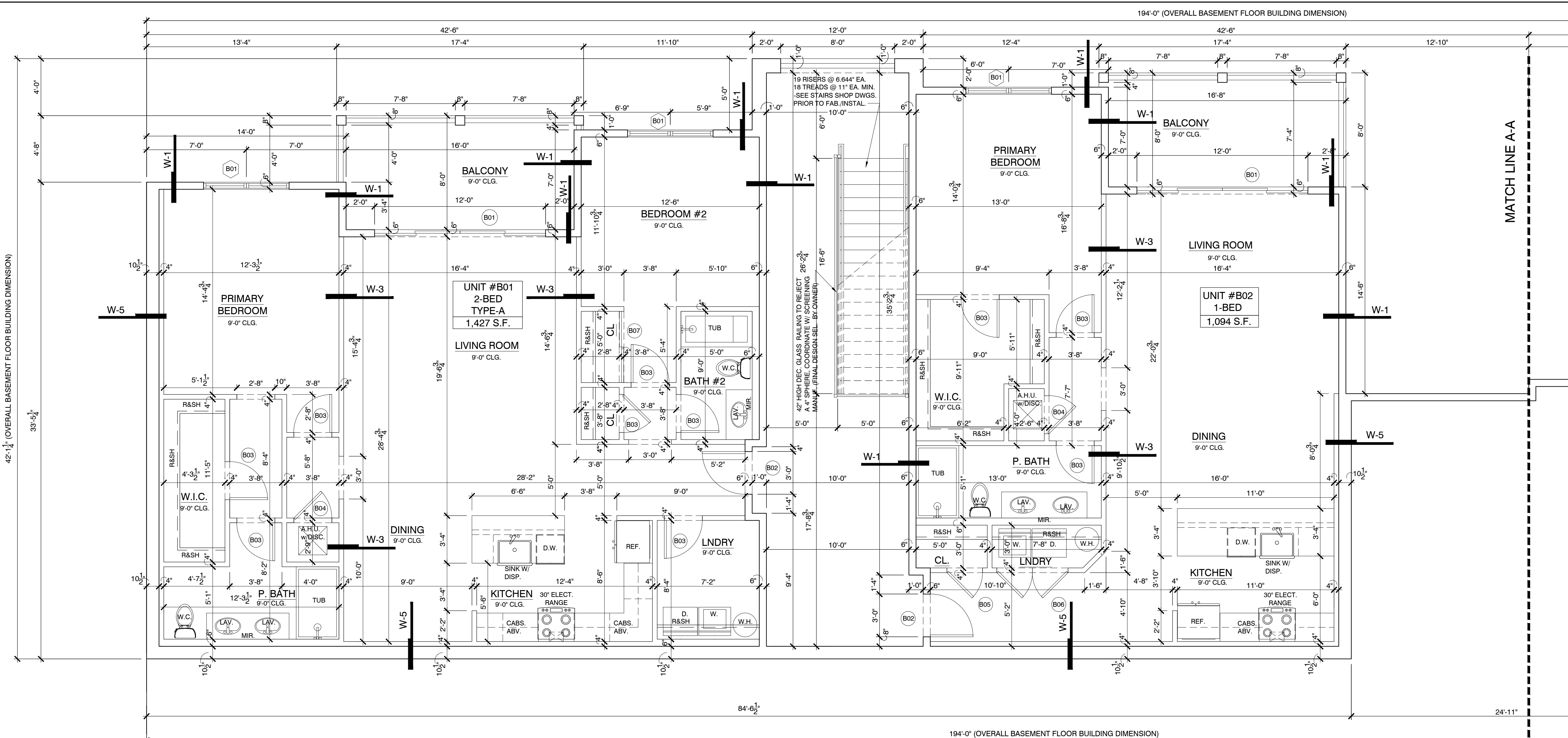
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DWG INFO:  
ISSUE DATE: 05/02/25  
PROJECT #: 22105  
DRAWN BY: GAN, LBN  
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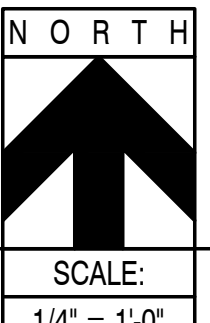
DWG DESCRIPTION:  
OVERALL BASEMENT FLR. PLAN  
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SHEET #:  
A-0.0





SEE A-02



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Luis Graef: President



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The Orchards at Naples Road  
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| # | REVISIONS | DATE |
|---|-----------|------|
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DWG INFO:  
ISSUE DATE: 05/02/25  
PROJECT #: 22105  
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DWG DESCRIPTION:  
PARTIAL BASEMENT FLR. PLAN.  
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|                |
|----------------|
| SCALE:         |
| $1/4" = 1'-0"$ |

SHEET #:  
**A-0.2**

DWG DESCRIPTION :  
PARTIAL BASEMENT FLR. PLAN  
ISSUE FOR REVIEW ONLY  
ISSUE FOR BUILDING PERM

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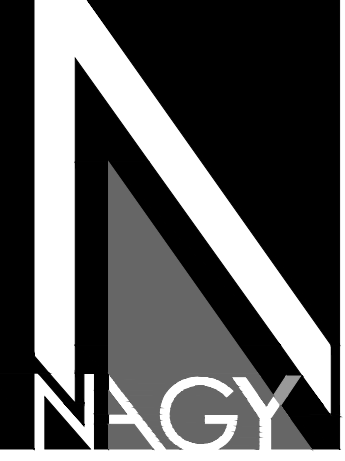
PROJECT: The Orchards at Naples Road  
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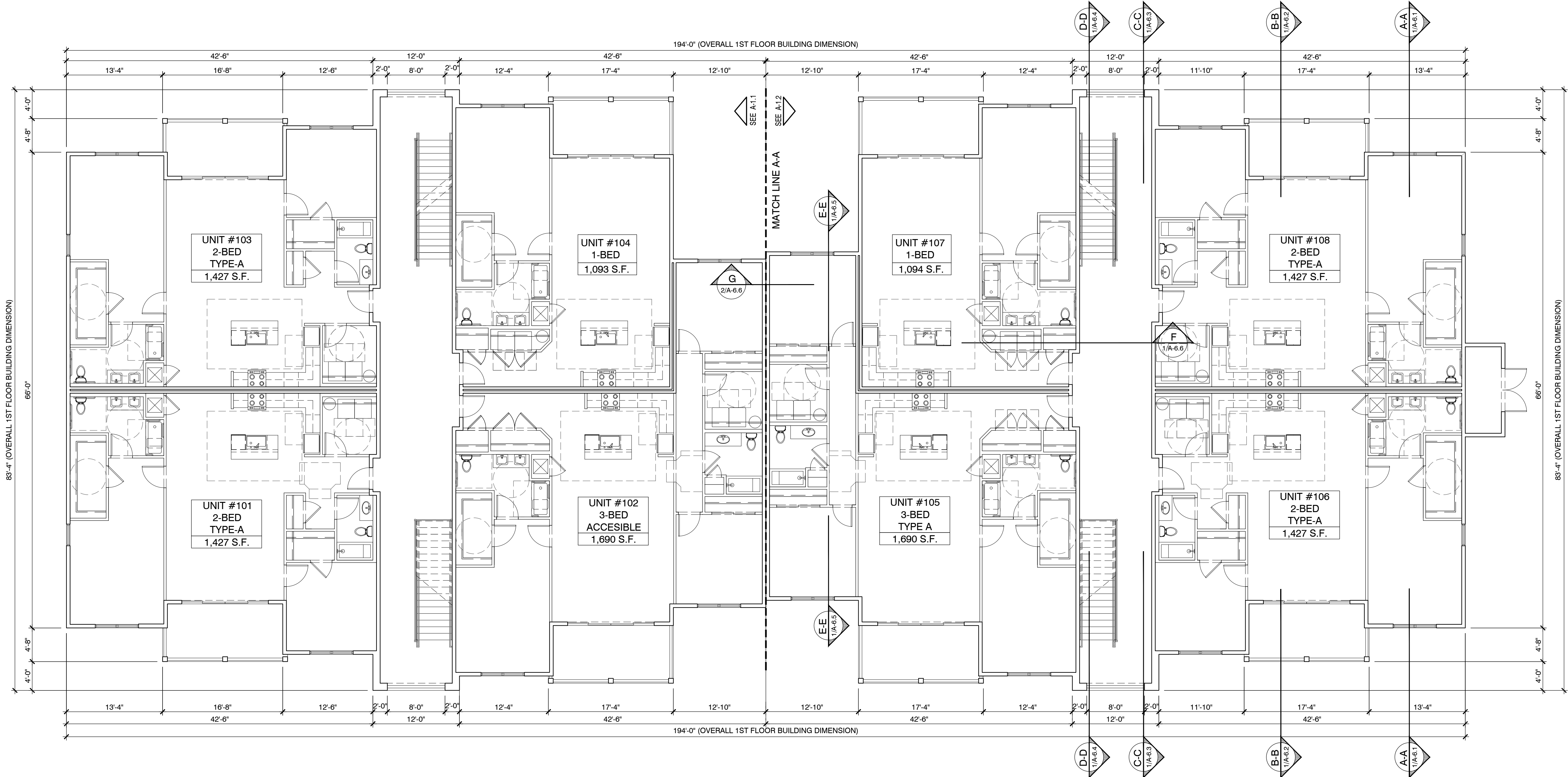


| FIRST FLOOR WINDOW SCHEDULE |                    |               |                |       |            |                |                         |
|-----------------------------|--------------------|---------------|----------------|-------|------------|----------------|-------------------------|
| No.                         | TYPE               | W x H         | R. O.<br>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 |

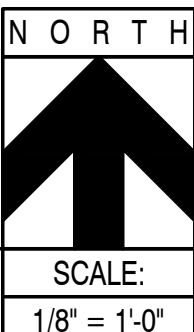
| FIRST FLOOR EXTERIOR DOOR SCHEDULE |                 |                  |                  |       |              |      |             |
|------------------------------------|-----------------|------------------|------------------|-------|--------------|------|-------------|
| No.                                | TYPE            | Wx H             | R. O.<br>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"        | X     | 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 |
| 103                                | SINGLE DR.  | 3'-0"X6'-8"    | WOOD   | -    |
| 104                                | SINGLE DR.  | 2'-8"X6'-8"    | WOOD   | -    |
| 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         | ACCESSIBLE | 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





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Luis Graef: President

PROJECT:

The Orchards at Naples Road  
Apartment Complex  
Building 6 - 28 units  
Hendersonville, North Carolina

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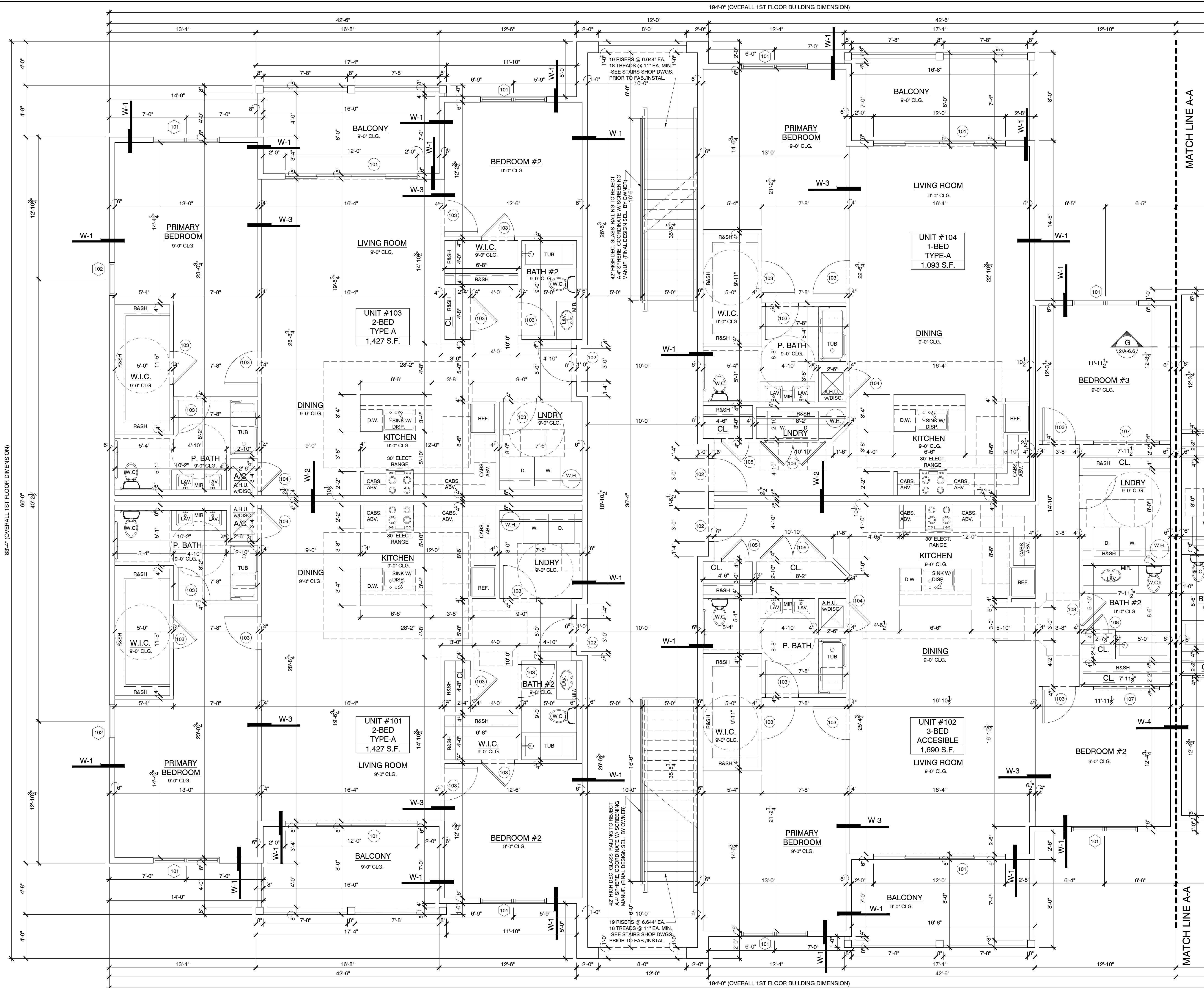
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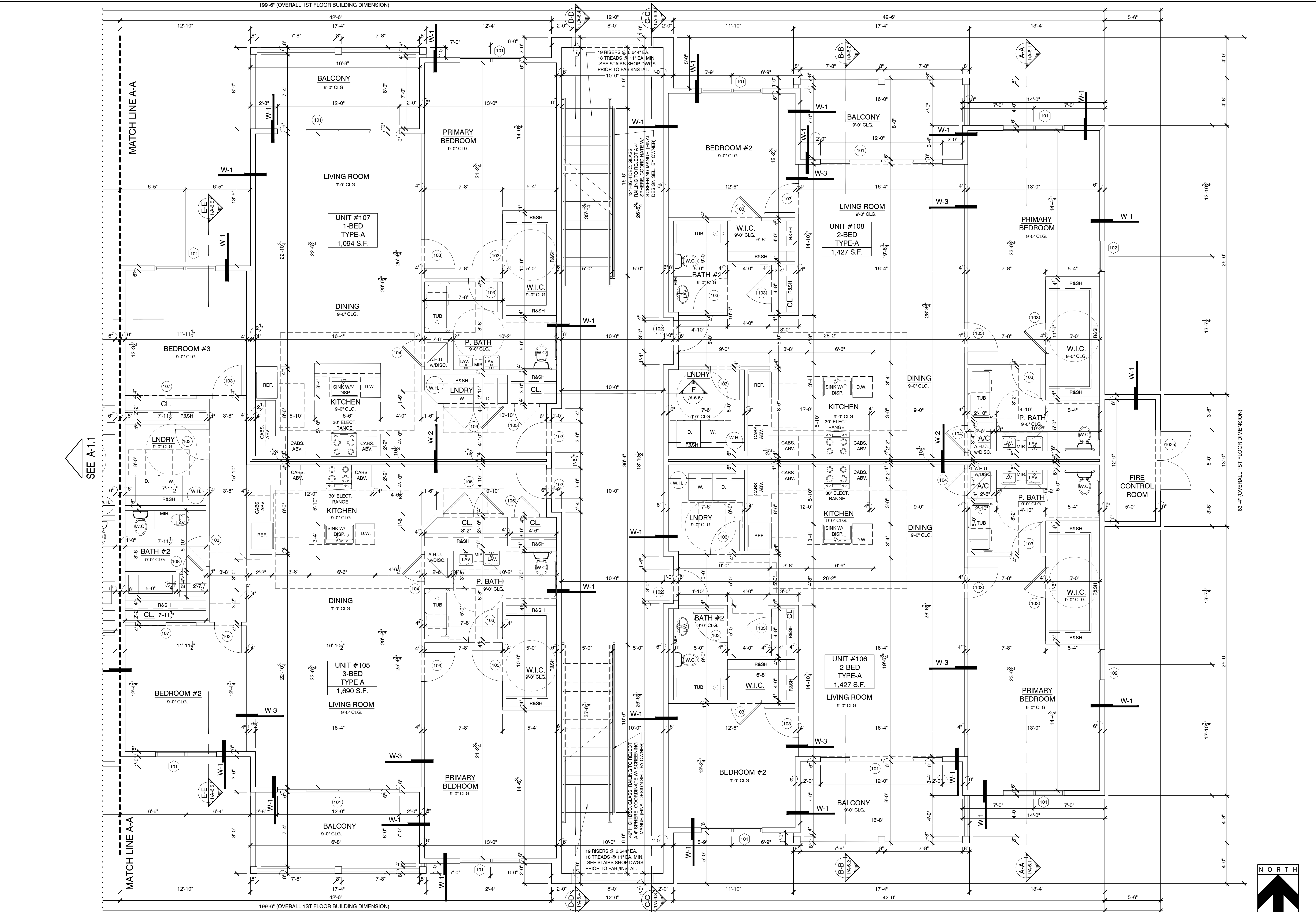
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Orchards  
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PARTIAL FIRST FLOOR PLAN

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

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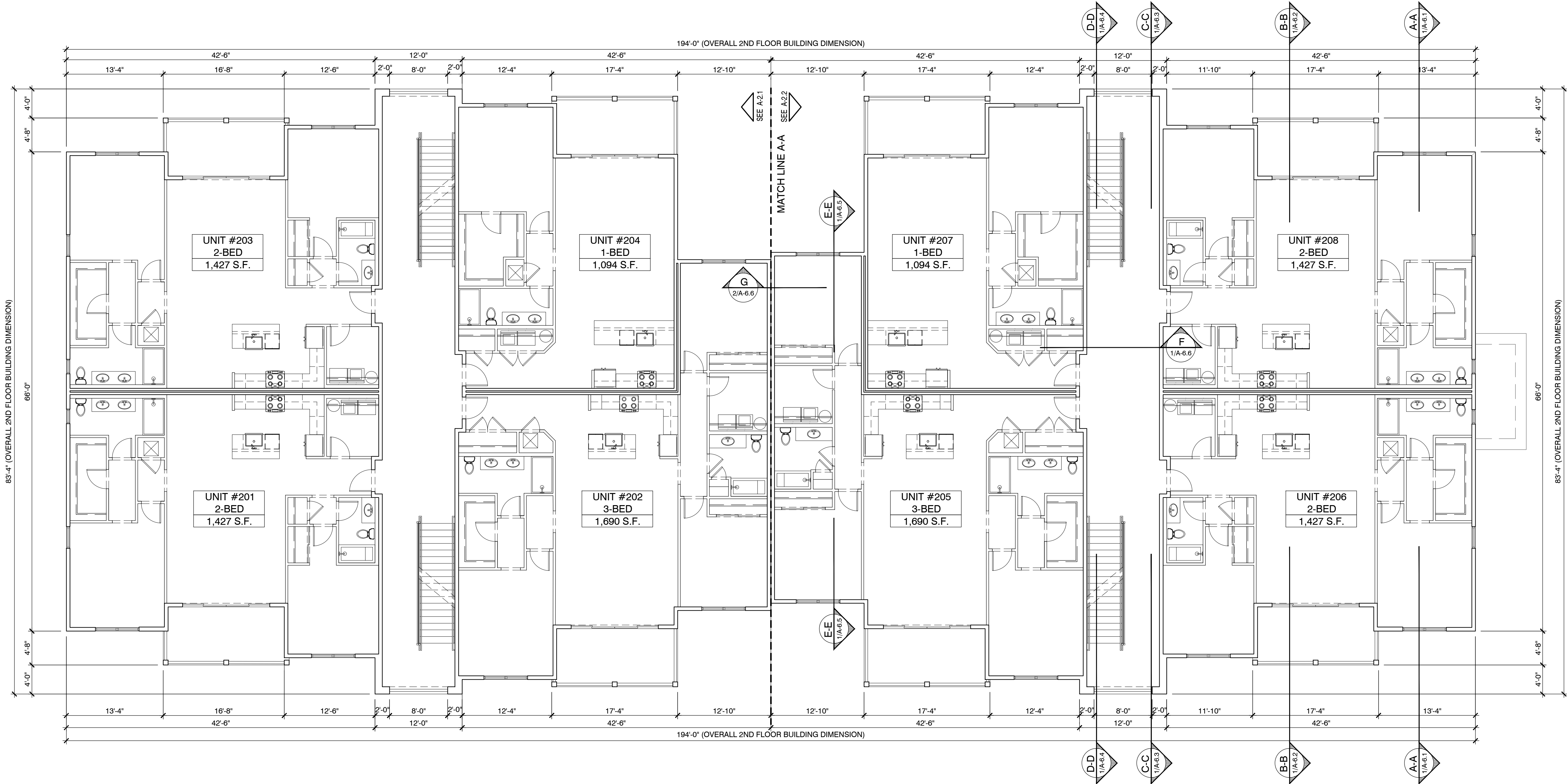


| SECOND FLOOR WINDOW SCHEDULE |                    |               |                |       |            |                |                         |        |
|------------------------------|--------------------|---------------|----------------|-------|------------|----------------|-------------------------|--------|
| No.                          | TYPE               | W x H         | R. O.<br>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 |        |

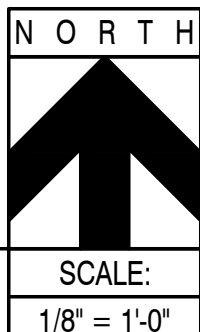
| SECOND FLOOR EXTERIOR DOOR SCHEDULE |                 |                |                  |       |              |      |             |        |
|-------------------------------------|-----------------|----------------|------------------|-------|--------------|------|-------------|--------|
| No.                                 | TYPE            | Wx H           | R. O.<br>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 UNIT'S AREA | TOTAL UNIT'S AREA | COMMON AREA | TOTAL FLR. GROSS AREA |
| 201                           | 2         | -    | 1,427 S.F. | 132 S.F.     | 1,559 S.F.        | 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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341 N main Street  
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Luis Graef: President

PROJECT:  
The Orchards at Naples Road  
Apartment Complex  
Building 6 - 28 units  
Hendersonville, North Carolina

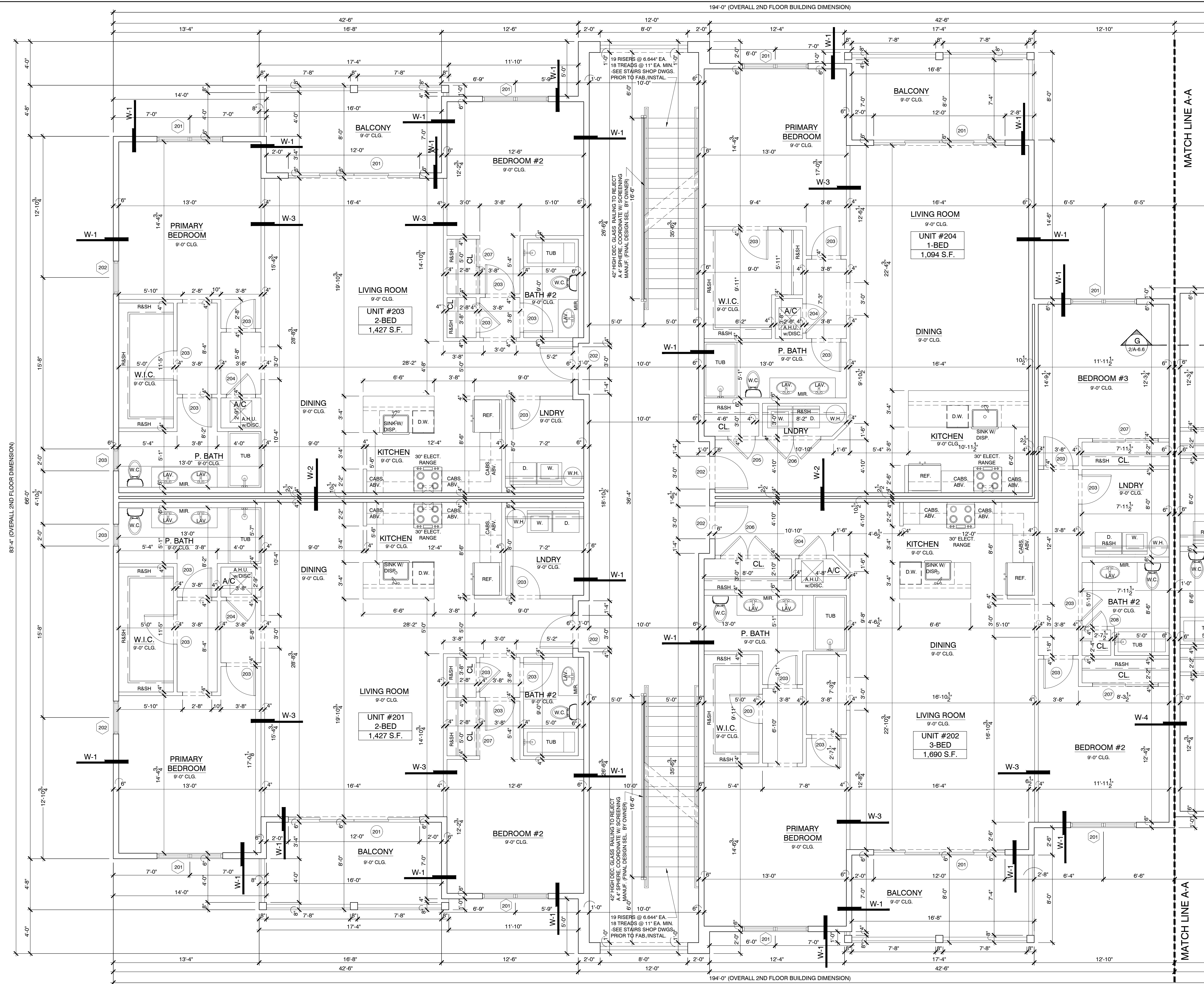
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SCALE:  
1/4" = 1'-0"

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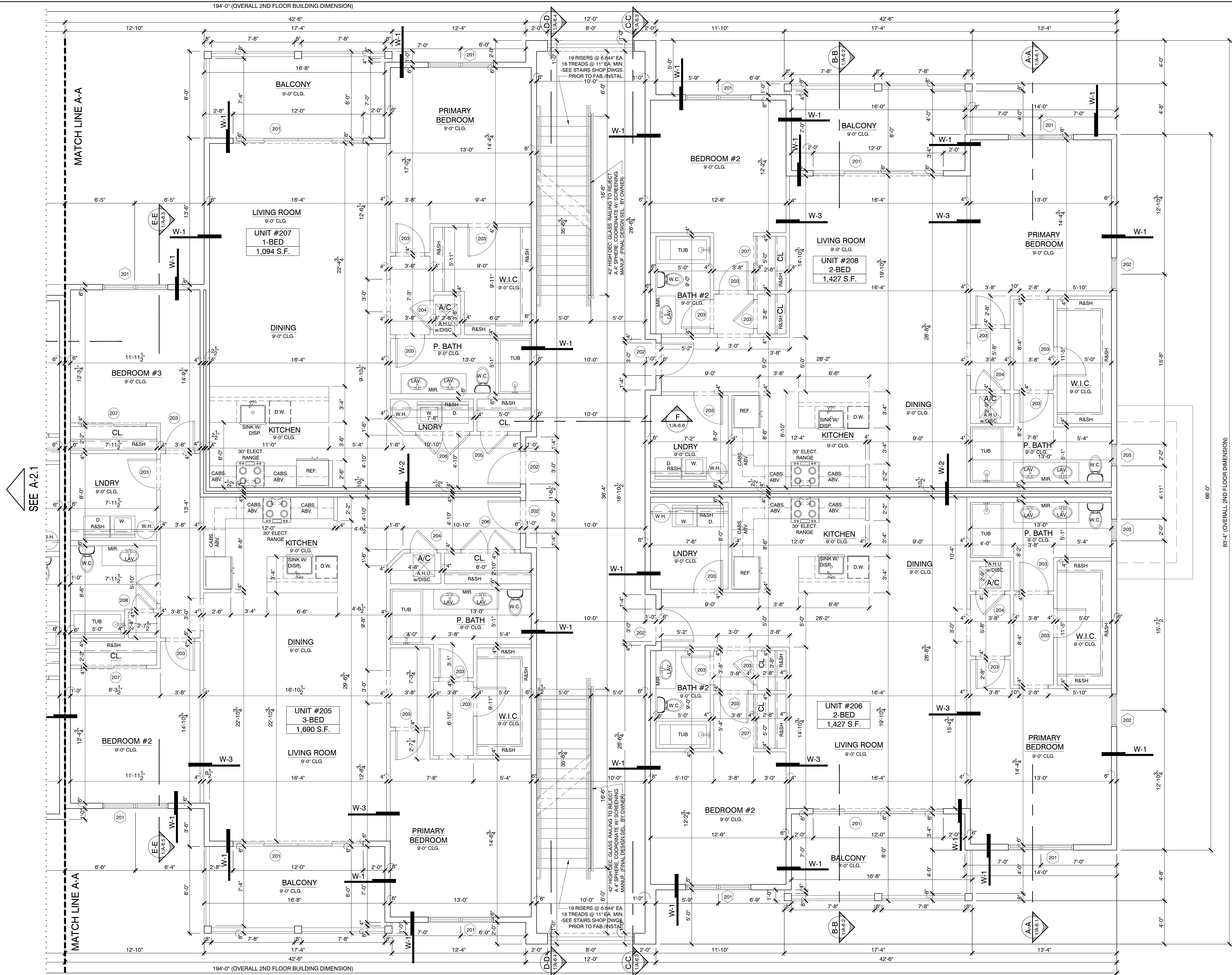
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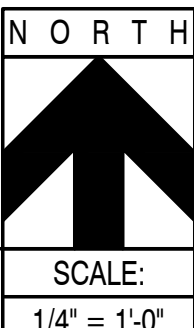
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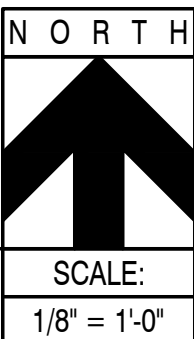
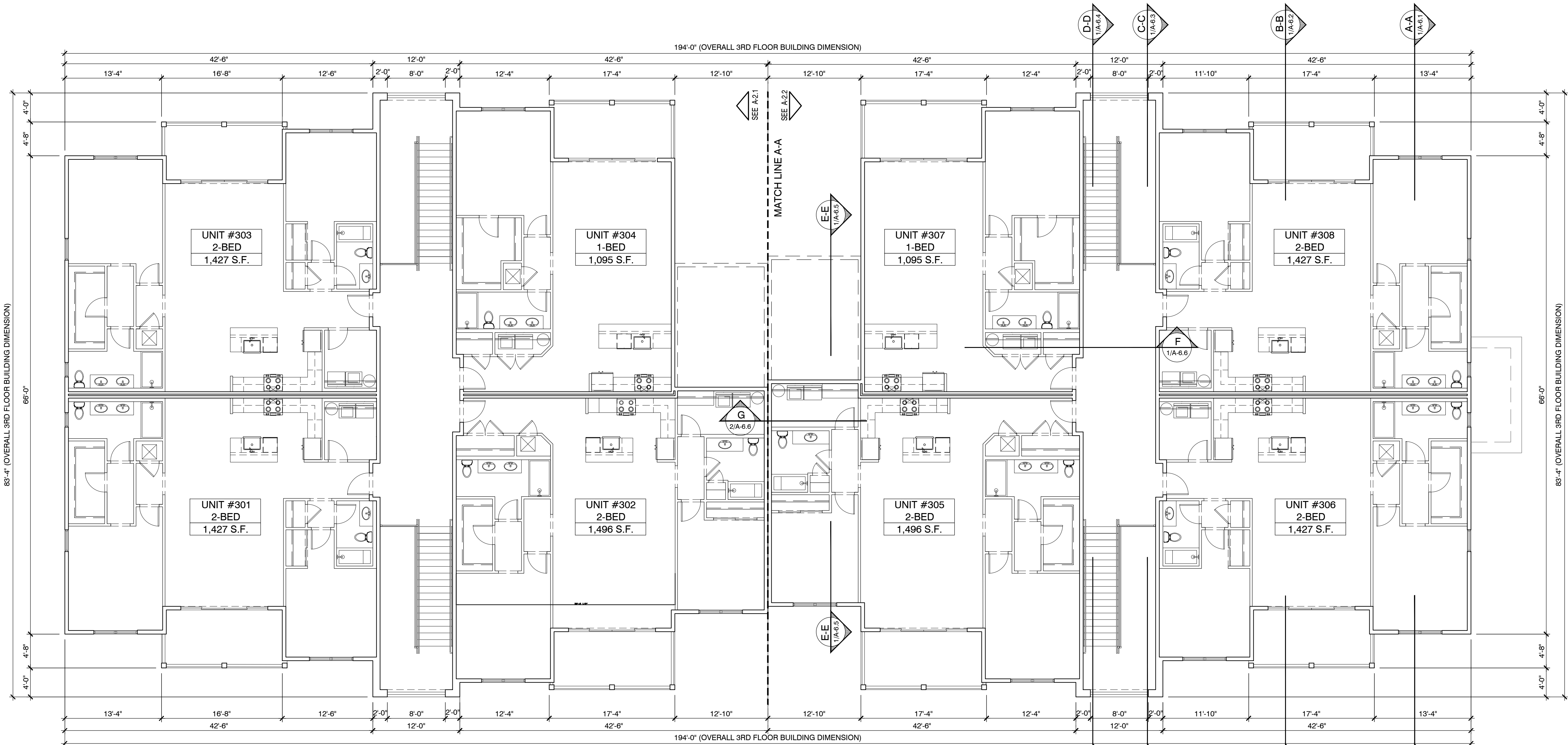


| THIRD FLOOR WINDOW SCHEDULE |                    |               |                |       |            |                |                         |        |
|-----------------------------|--------------------|---------------|----------------|-------|------------|----------------|-------------------------|--------|
| No.                         | TYPE               | W x H         | R. O.<br>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.<br>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'-6"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.    |                       |
| 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.        |                   |             |                       |

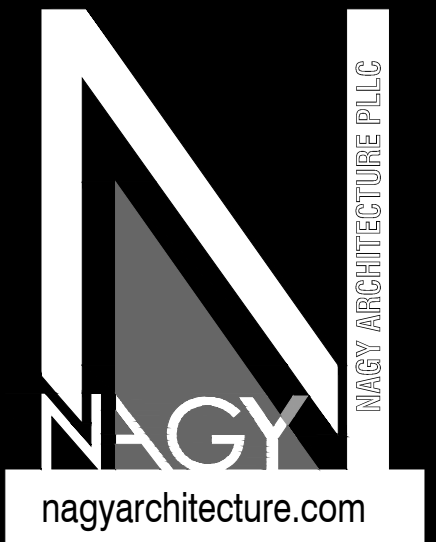


OVERALL THIRD FLOOR PLAN

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

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Luis Graef: President



PROJECT:  
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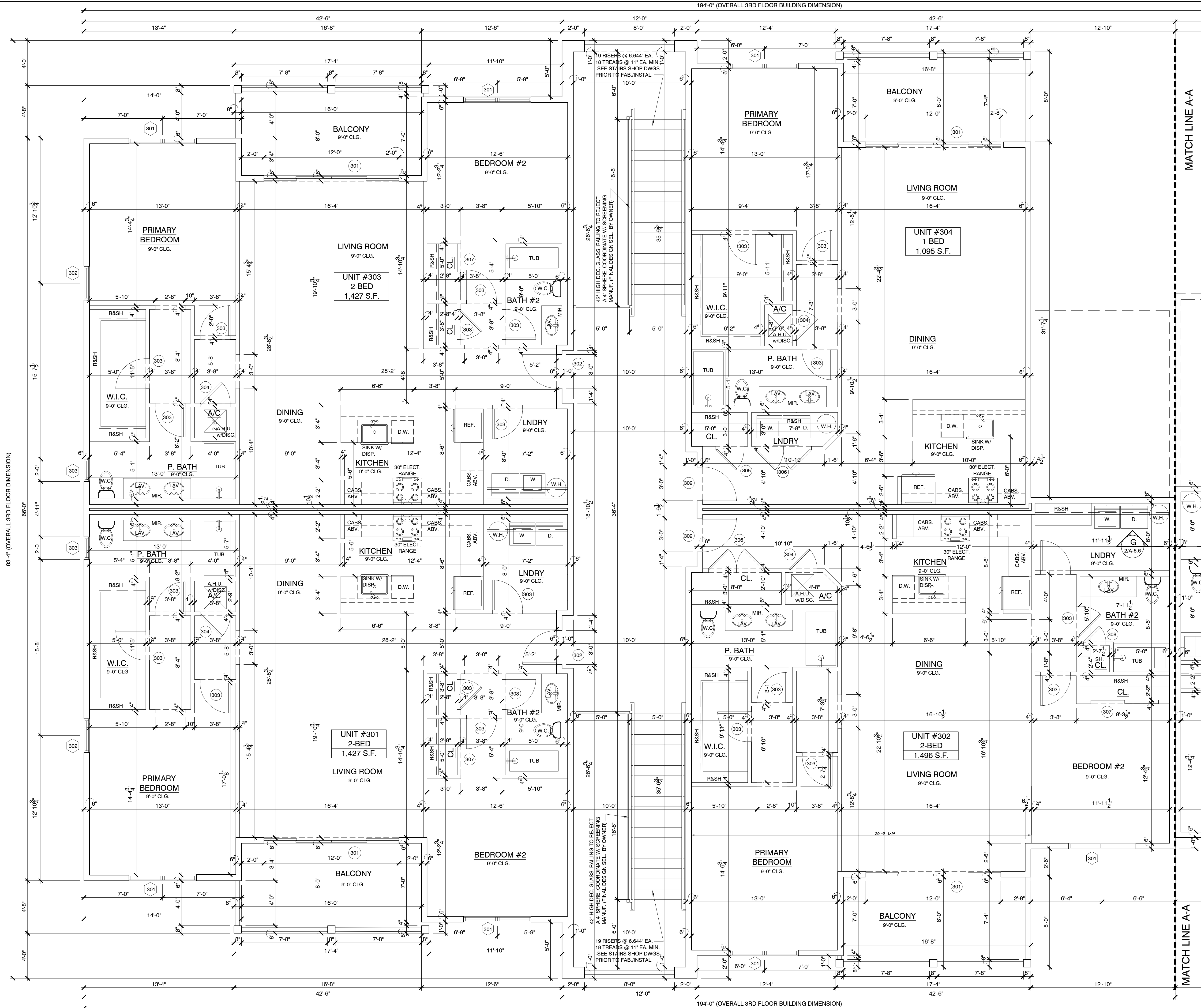
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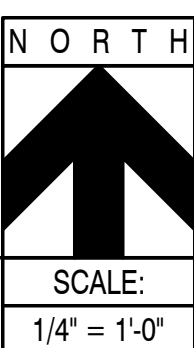
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PARTIAL THIRD FLOOR PLAN





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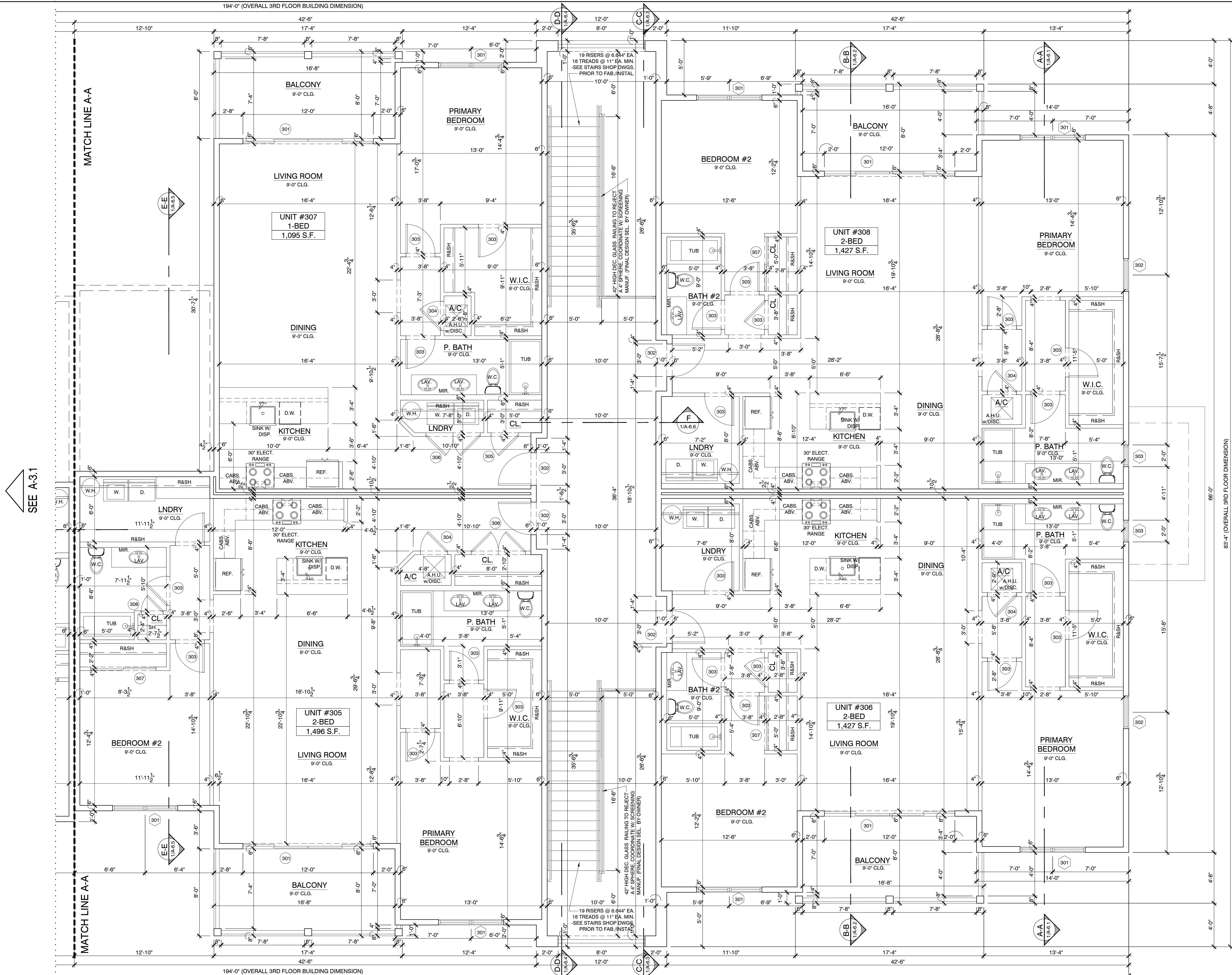
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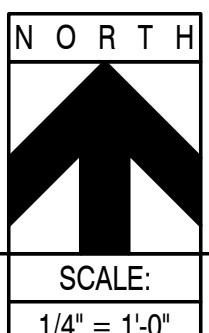
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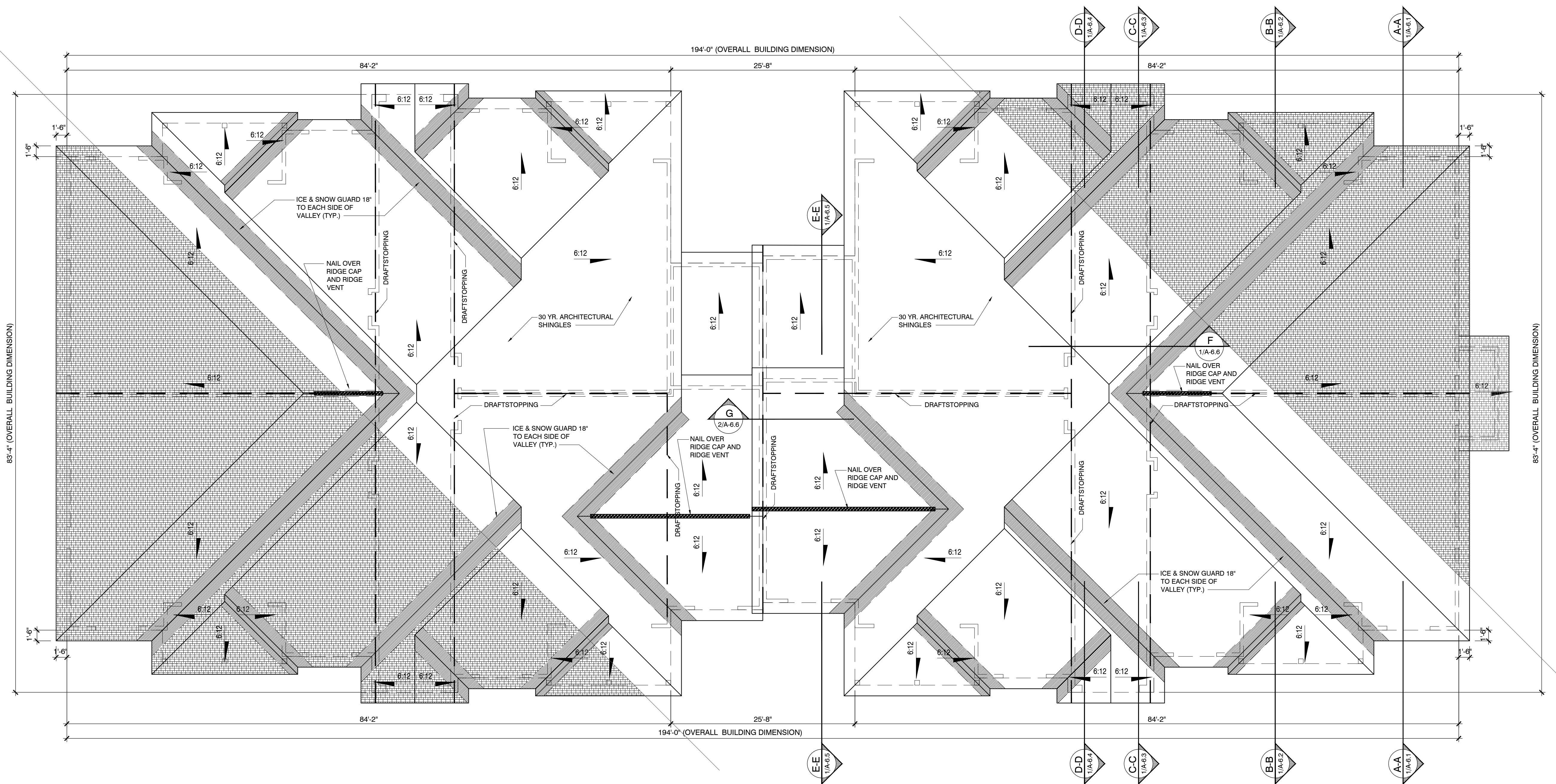
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DWG INFO:  
ISSUE DATE: 05/02/25  
PROJECT #: 22105  
DRAWN BY: GAN, LBN  
CHECKED BY: GAN

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

SHEET #:  
**A-4.0**

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ROOF PLAN

SCALE:  
1/8" = 1'-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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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 6 - 28 units  
Hendersonville, North Carolina

| # | REVISIONS | DATE |
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ISSUE FOR BUILDING PERMIT.

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: 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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Boca Raton, Florida 33432  
Mob: 561-289-1634  
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 6 - 28 units  
Hendersonville, North Carolina

| # | REVISIONS | DATE |
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CHECKED BY: GAN

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PARTIAL FRONT ELEVATION  
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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 - 1-1/2" 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.
- 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.

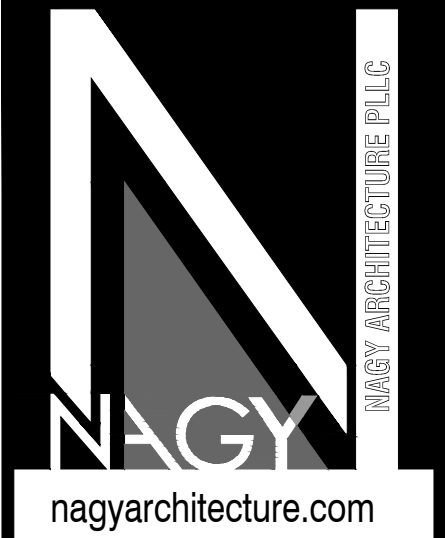


RIGHT SIDE ELEVATION

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

1

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Luis Graef: President



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Building 6 - 28 units  
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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.
  - 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.



MATCH LINE A-A

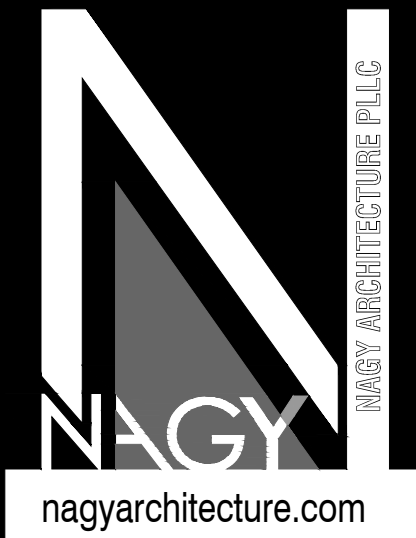
SEE A-5.5

PARTIAL REAR ELEVATION

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

1

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

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 6 - 28 units  
Hendersonville, North Carolina

| # | REVISIONS | DATE |
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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-5.4



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:

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- 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.

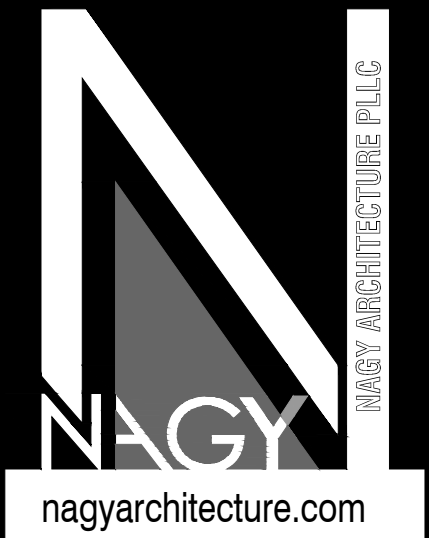


PARTIAL REAR ELEVATION

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 6 - 28 units  
Hendersonville, North Carolina

| # | REVISIONS | DATE |
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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.
  - 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, (78 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:

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-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.

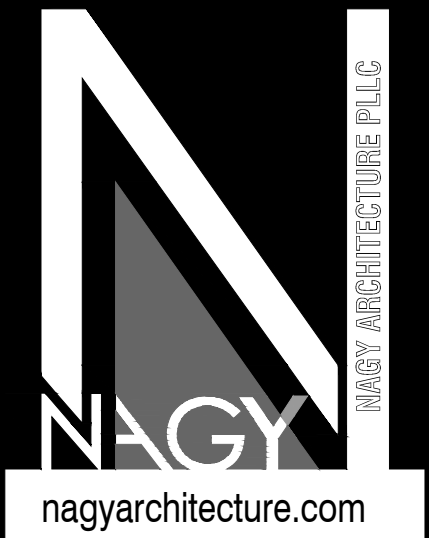


LEFT SIDE ELEVATION

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 6 - 28 units  
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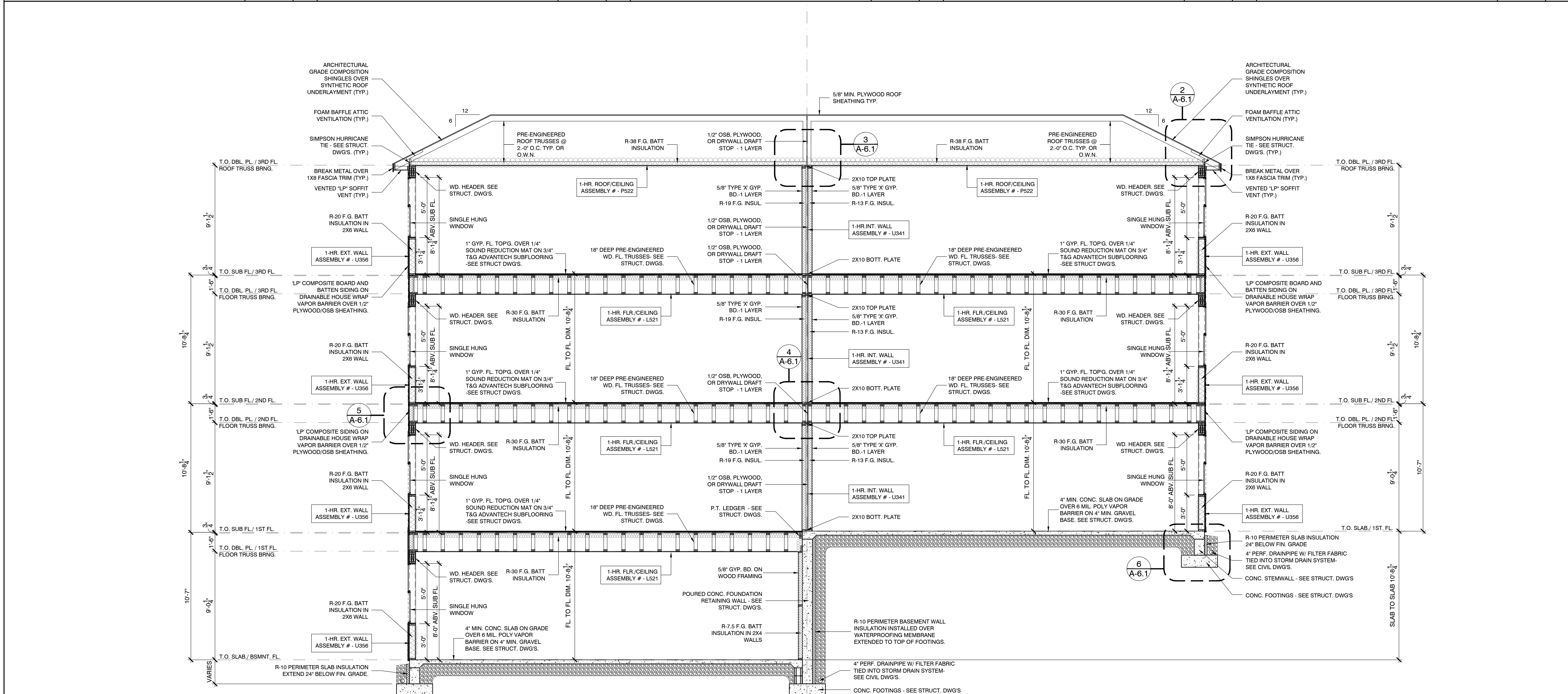
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DWG INFO:  
ISSUE DATE: 05/02/25  
PROJECT #: 22105  
DRAWN BY: GAN, LBN  
CHECKED BY: GAN

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

SHEET #:  
A-5.6

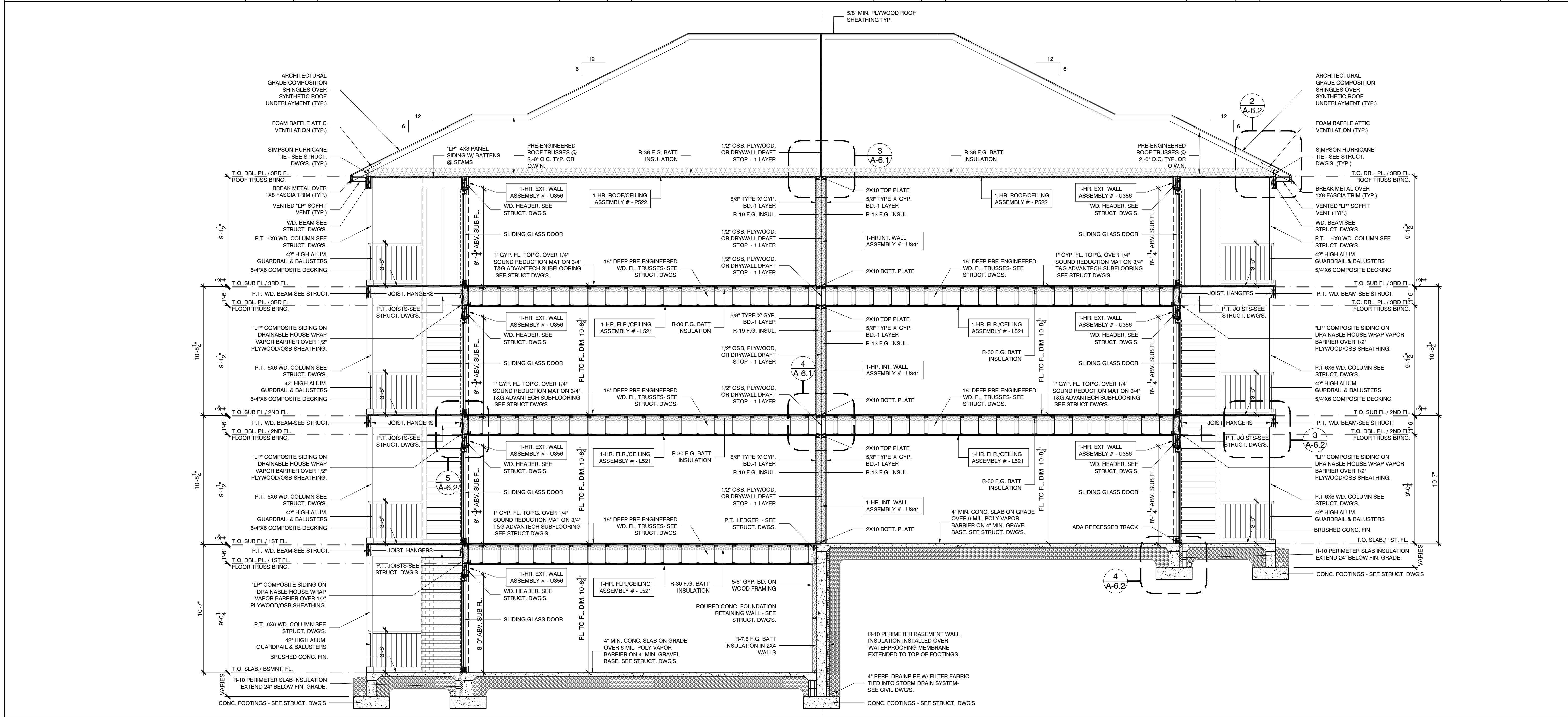




SHEET #:

**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 6 - 28 units  
Hendersonville, North Carolina

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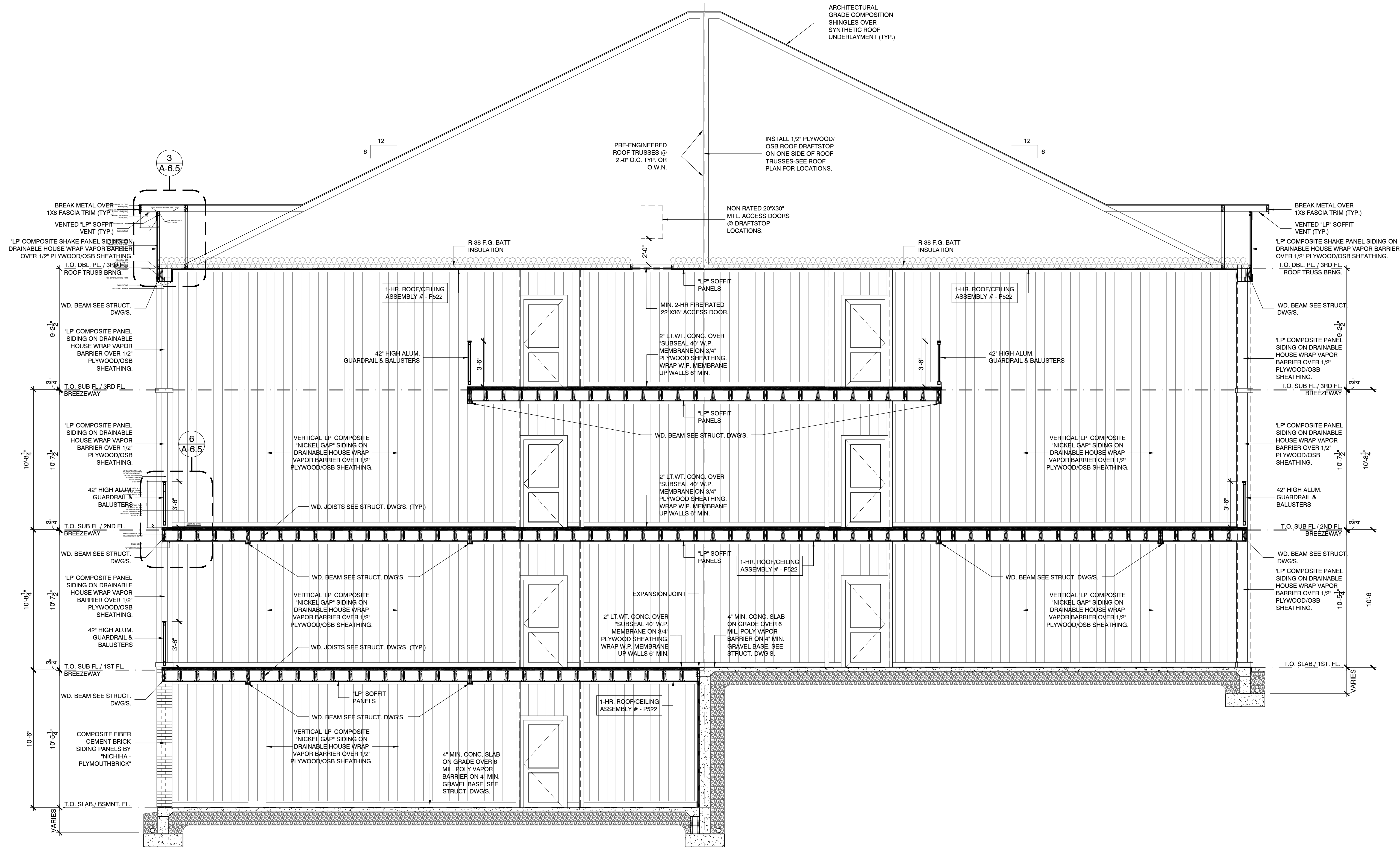
DWG INFO :  
 ISSUE DATE: 05/02/25  
 PROJECT #: 22105  
 DRAWN BY: GAN , LBN  
 CHECKED BY: GAN

DWG DESCRIPTION :  
BUILDING SECTION "C-C"  
ISSUE FOR REVIEW ONLY NOT  
ISSUE FOR BUILDING PERMIT.

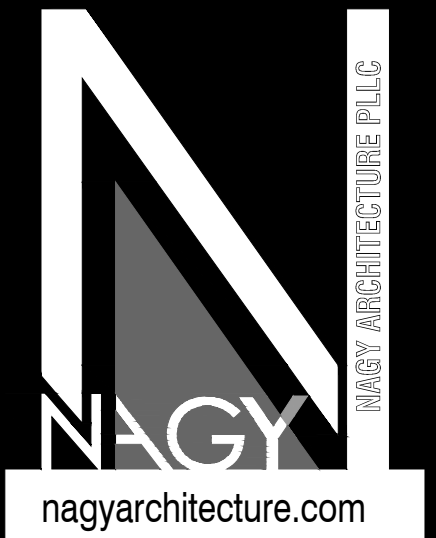
SHEET #:

**A-6.3**





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



NAGY ARCHITECTURE PLLC  
1388 NW 2nd Avenue, St. #4A  
Boca Raton, Florida 33432  
Mob: 561-289-1034  
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 6 - 28 units  
Hendersonville, North Carolina

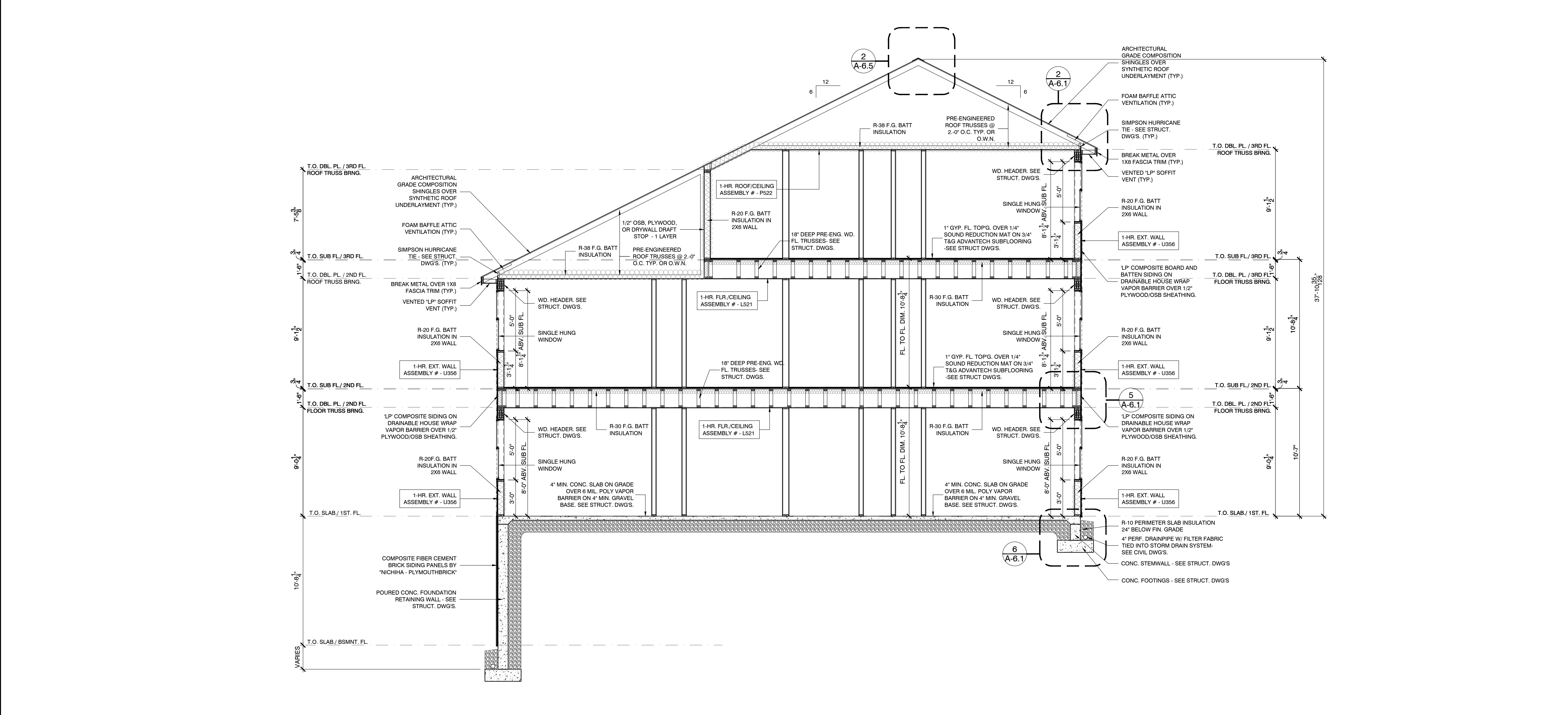
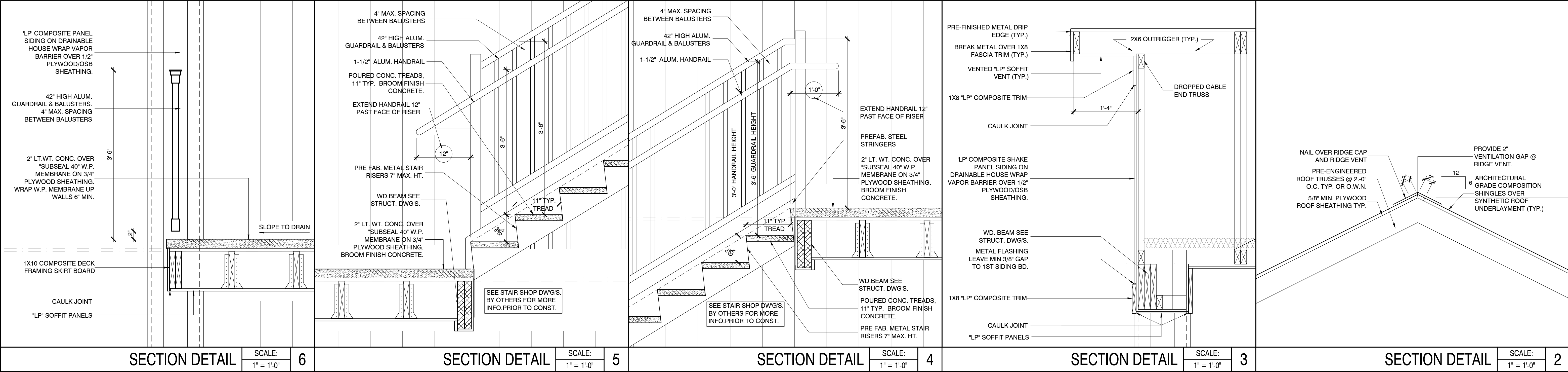
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DWG INFO:  
ISSUE DATE: 05/02/25  
PROJECT #: 22105  
DRAWN BY: GAN, LBN  
CHECKED BY: GAN

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

SHEET #:  
A-6.4





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



nagyarchitecture.com

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Luis Graef: President

PROJECT:  
The Orchards at Naples Road  
Apartment Complex  
Building 6 - 28 units  
Hendersonville, North Carolina

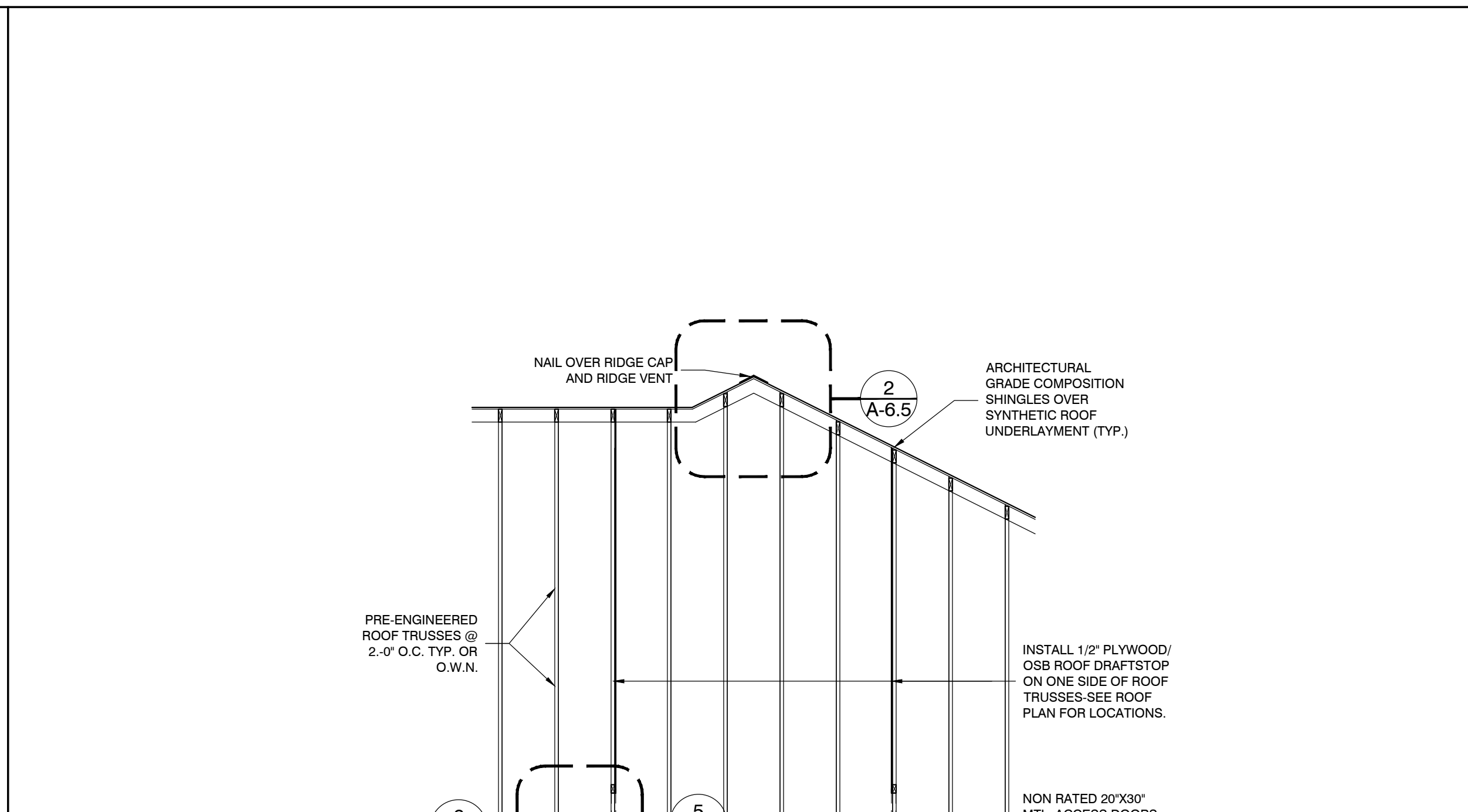
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DWG INFO:  
ISSUE DATE: 05/02/25  
PROJECT #: 22105  
DRAWN BY: GAN, LBN  
CHECKED BY: GAN

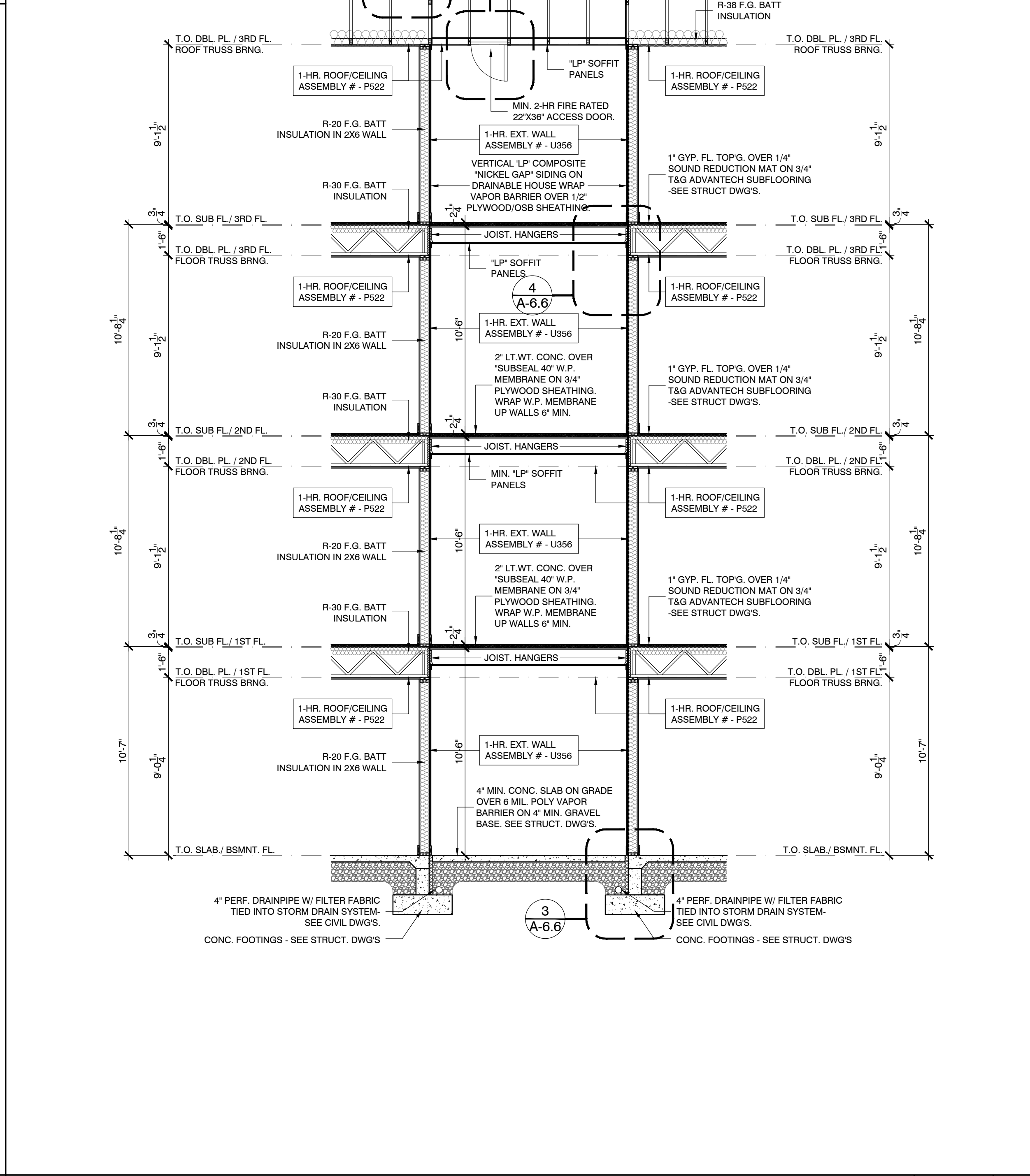
DWG DESCRIPTION:  
BUILDING SECTION "E-E"  
ISSUE FOR REVIEW ONLY NOT  
ISSUE FOR BUILDING PERMIT.

SHEET #:  
**A-6.5**





|                |            |   |
|----------------|------------|---|
| SECTION DETAIL | SCALE:     | 3 |
|                | 1" = 1'-0" |   |



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



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                |
| CONCT   | connection             | OC, O/C | on center              |
| CONN    | connection             | OF      | outer face, opp. face  |
| CONST   | construction           | OP      | opposite hand          |
| CONT    | continuous             | OPP     | opposite               |
| CTR     | center                 | OPEN    | opening                |
| DBA     | deformed bar anchor    | PRCST   | 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           | SLP     | slope                  |
| 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.
- 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  
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):
- | TRIBUTARY AREA (FT²) |               |        |        |        |
|----------------------|---------------|--------|--------|--------|
|                      | 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 \*- 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 <sub>RS</sub> " SECOND PERIOD DESIGN SPECTRAL RESPONSE "S <sub>RI</sub> " SEISMIC USE GROUP IMPORTANCE FACTOR "I <sub>p</sub> " SEISMIC DESIGN CATEGORY | D (ASSUMED) 0.30kg 1.169g II 1.0 C                    |
| 50 YEAR GROUND SNOW LOAD "Pg" EXPOSURE FACTOR "Ce" THERMAL FACTOR "CT" IMPORTANCE CATEGORY CLASSIFICATION IMPORTANCE FACTOR "Is" PI NET FLAT ROOF SNOW LOAD "P <sub>f</sub> "   | 15 PSF 1.0 1.0 10.5 PSF (ASCE 7-05, EC. 7-1) 10.5 PSF |

- WING SEISMIC FORCE RESISTING SYSTEM
- WIND 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
- 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 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 RF'S 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-ROD 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 L.T.S 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 SOLEY 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<sub>c</sub> = 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/ 4X4W X 1 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 DEPRESSED 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 MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5999.
- 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 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-4057)  
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 DUX 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 <sub>c</sub> (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 <sub>c</sub> 3000 PSI | 0.60 MAX. w/c RATIO |
|-------------------------|---------------------|
|-------------------------|---------------------|
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 U.N.O. - EXCEPT THAT REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706. ALL WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AWS 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, W/31 OR D31 WIRE & SMALLER       | - 2"     |
| #6 BAR, W/31 OR D31 WIRE & SMALLER       | - 1 1/2" |

| B. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: |          |
|---|----------|
| SLABS, WALLS & JOISTS   | - 1 1/2" |
| #14 AND #18 BARS  | - 3/4"   |
| #11 BAR AND SMALLER   | - 3/4"   |
| SHELLS, FOLDED PLATE MEMBERS                                  | - 1 1/2" |
| PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS                | - 1 1/2" |
| #6 BAR AND LARGER   | - 3/4"   |
| #6 BAR, W/31 OR D31 WIRE AND SMALLER                          | - 1/2"   |
| CONCRETE CAST AGAINST EARTH                                   | - 3"     |

| C.                                   |        |
|--------------------------------------|--------|
| #6 BAR AND LARGER                    | - 3/4" |
| #6 BAR, W/31 OR D31 WIRE AND SMALLER | - 1/2" |
| 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 STAIN



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 1932" (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 = 2,000 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.

JDH  
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19545 GREENTREE WAY, SUITE B  
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704.387.7072  
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http://jdhengineers.com




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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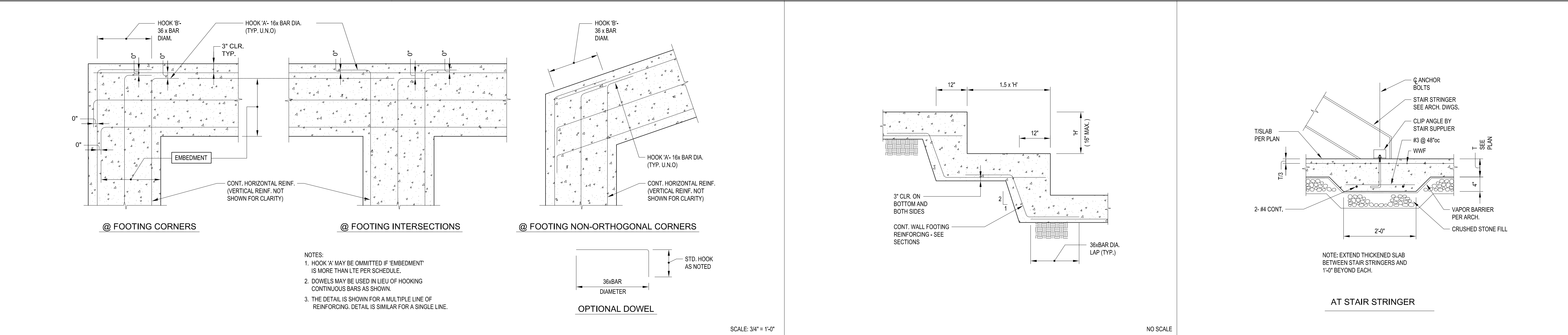
DWG INFO :  
ISSUE DATE: 09/27/24  
PROJECT #: 22105  
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DWG DESCRIPTION :

GENERAL NOTES

SHEET #:  
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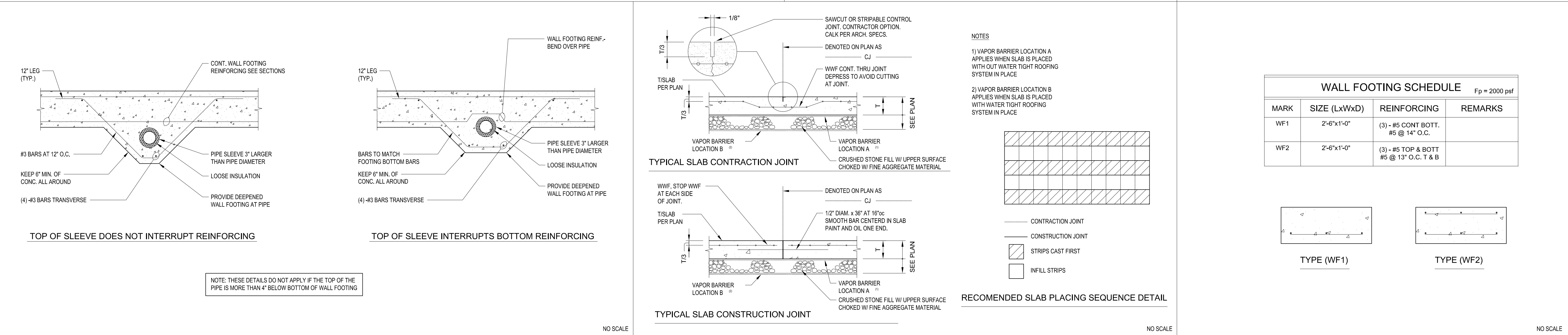
TYP. STRIP FOOTING CORNER INTERSECTION & NON-ORTHOGONAL

2

STEPPED FOOTING

3

TYP. THICKENED SLAB DETAIL



4

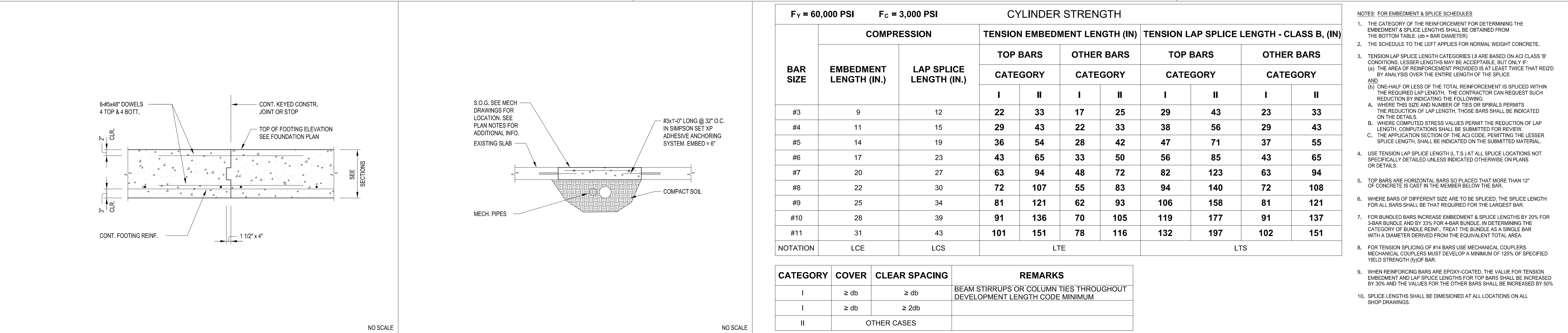
TYP. STRIP FOOTING CORNER INTERSECTION & NON-ORTHOGONAL

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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TYPICAL DETAILS

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S-1.00



WALL STUD SCHEDULE

| MARK | LEVEL                                     | STUDS              | SPACING  |
|------|---|--------------------|----------|
| W1   | B - ROOF<br><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

JDH STRUCTURAL ENGINEERS, PLLC

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Phone: 704.987.7072 Fax: 704.987.7072  
http://jdhengineers.com




NC CERTIFICATE OF LICENSE # P-1993

SIGNATURE:

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The orchards at Naples Road, LLC  
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Hendersonville, NC 28792  
Luis Graef: President



PROJECT:

The Orchards at Naples Road  
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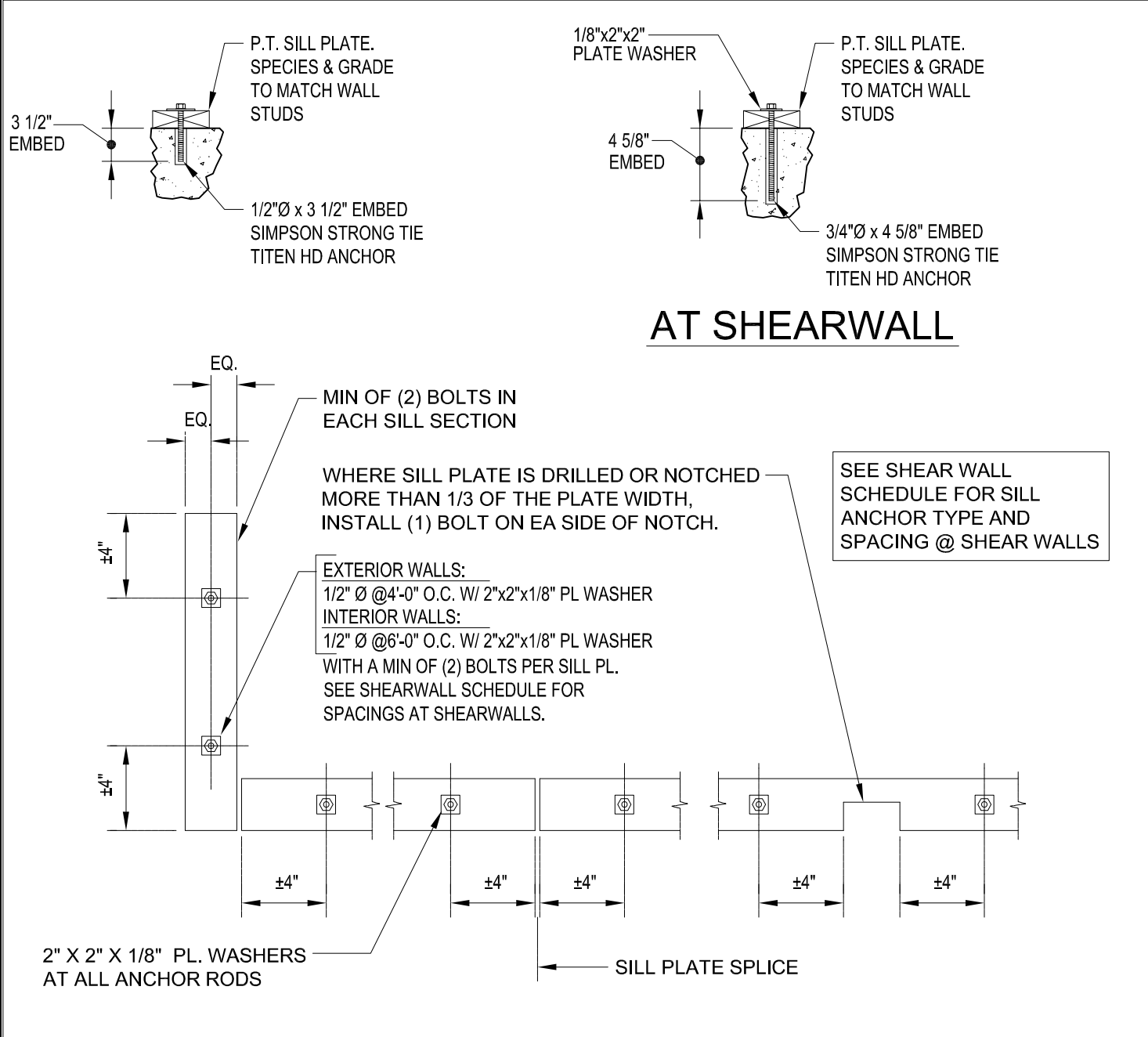
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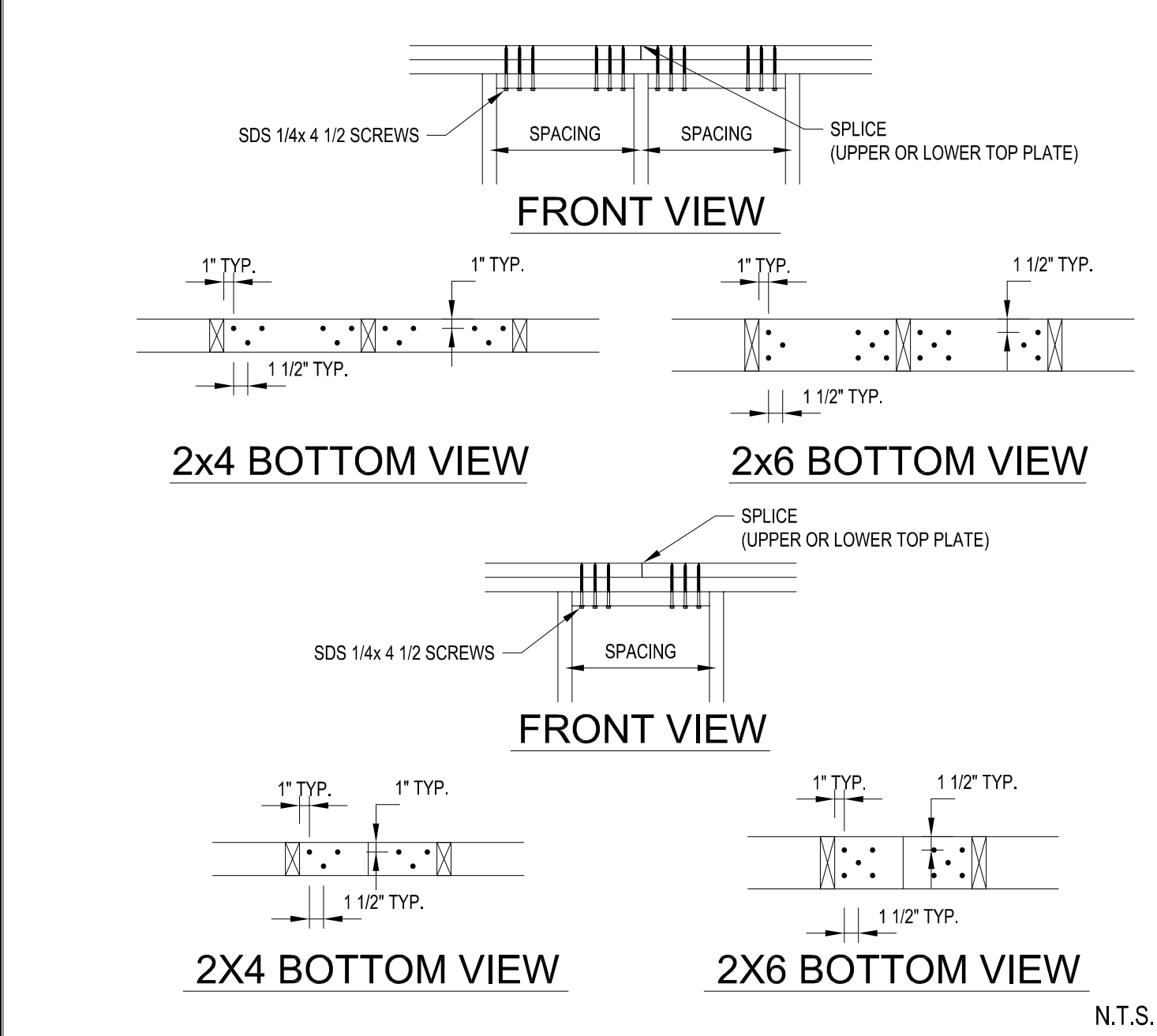
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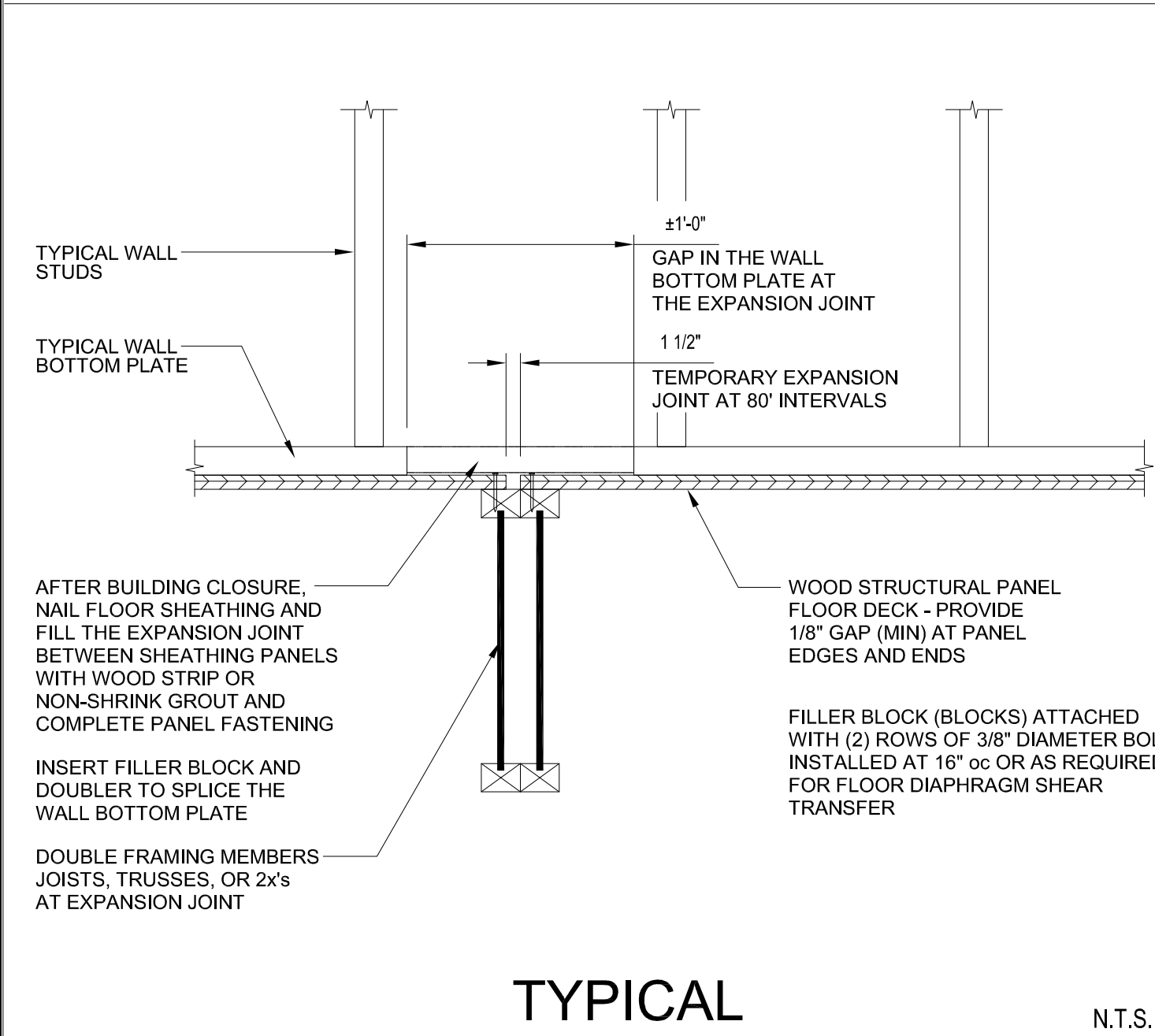




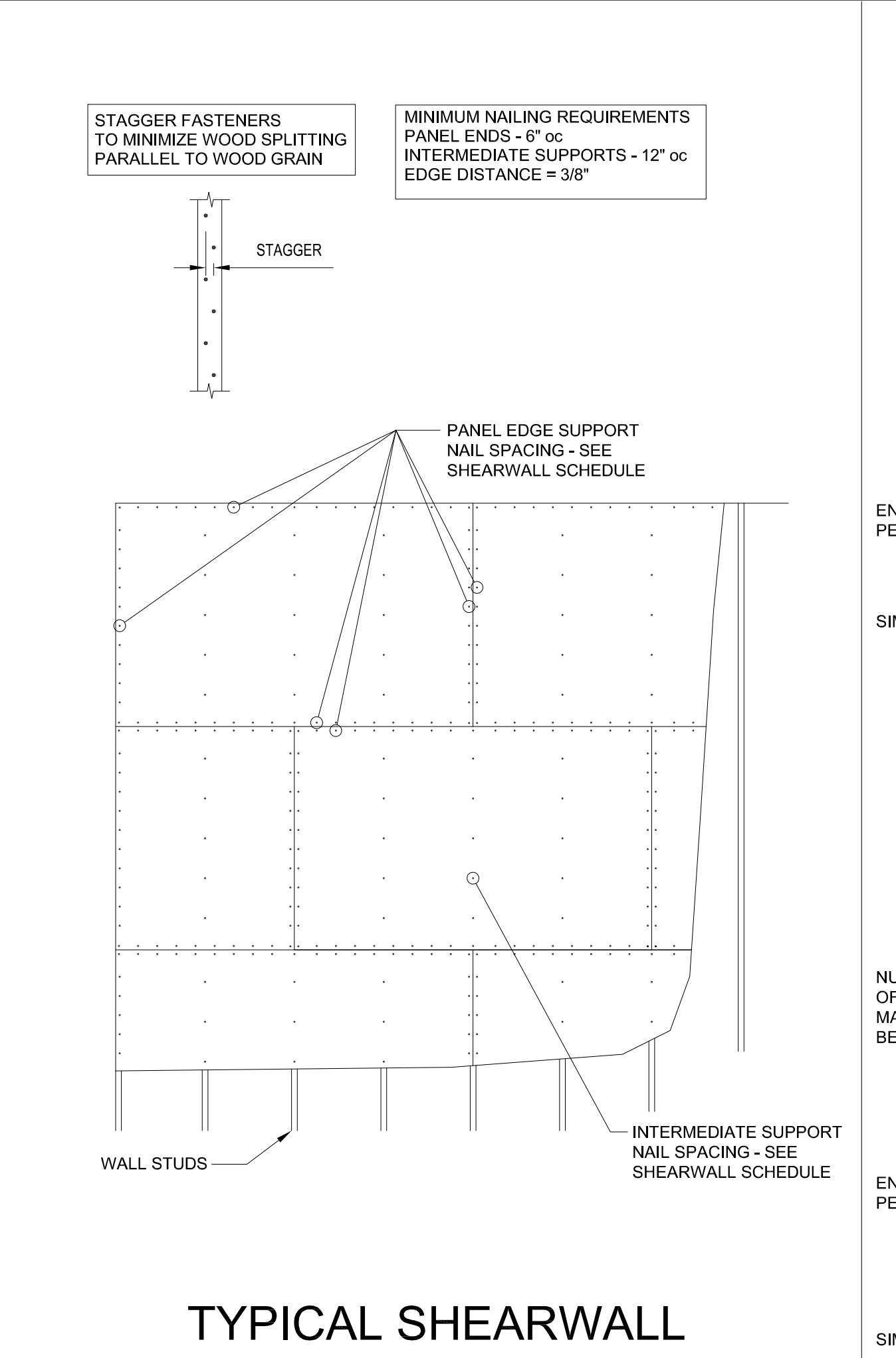
1 TYP. SILL PLATE BOLTING @ S.O.G.



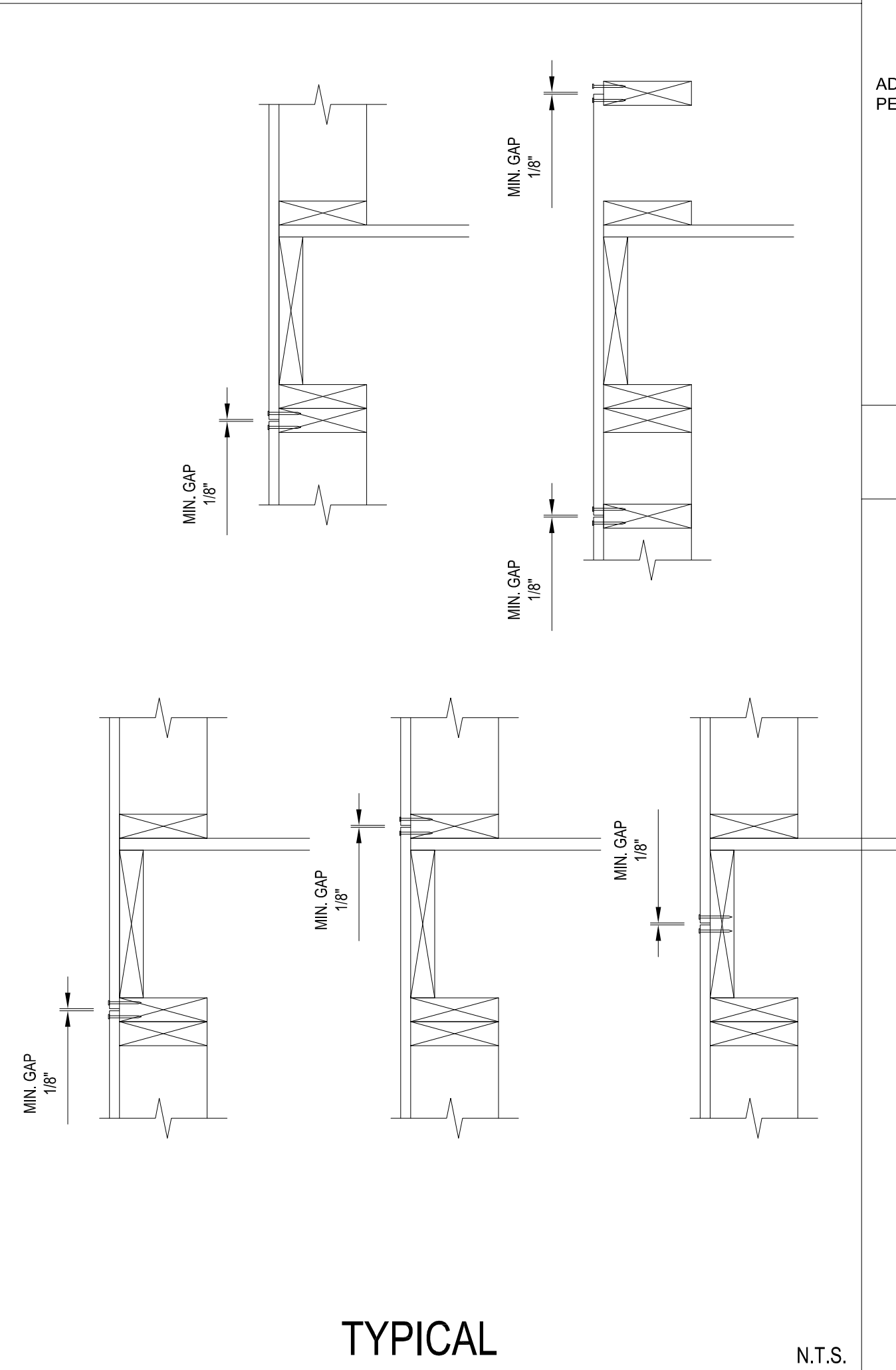
5 TOP PLATE SPLICE DETAILS



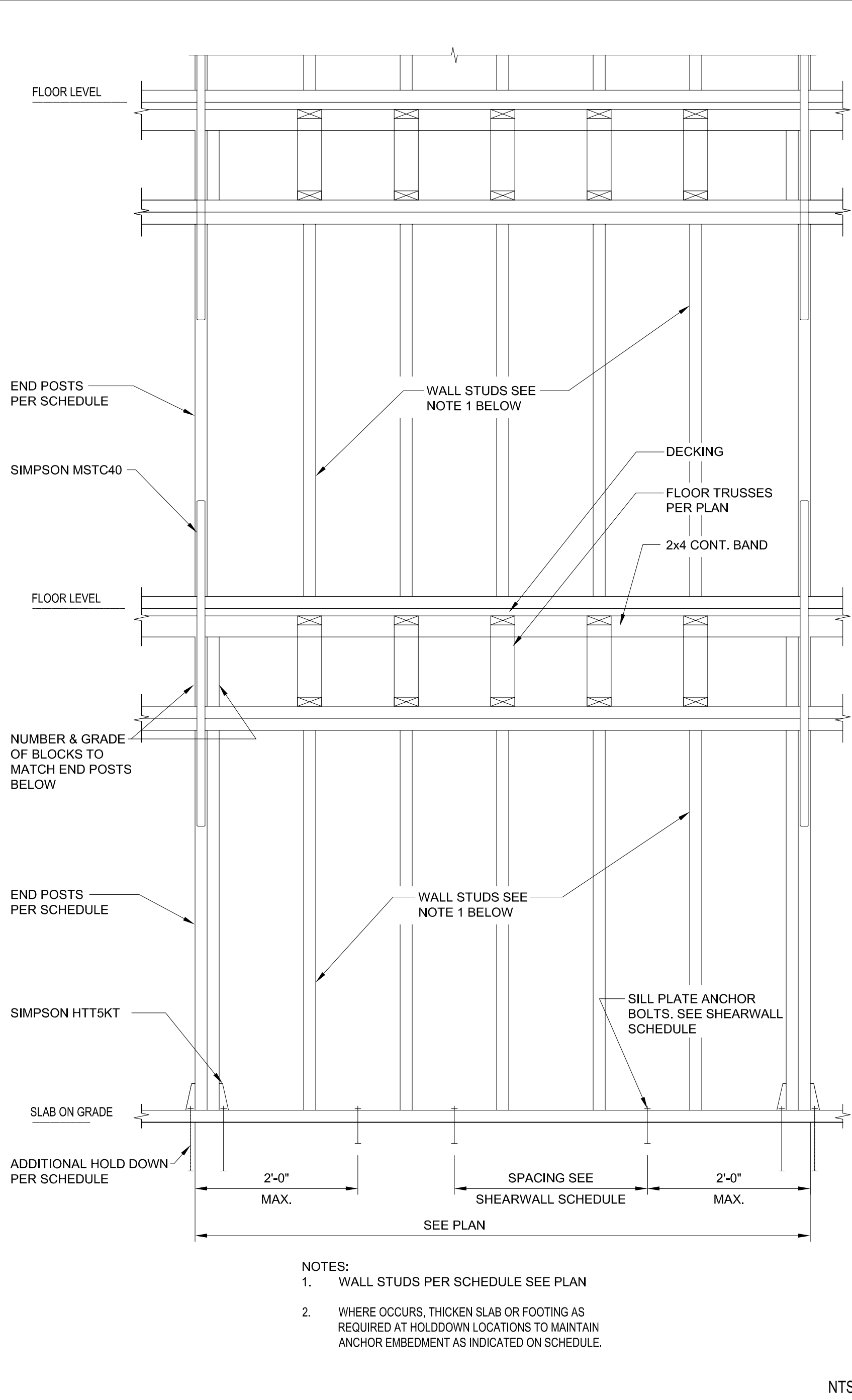
6 FLOOR EXPANSION JOINT



2 TYPICAL SHEARWALL  
2 PANEL NAILING / SCREWING



7 STORY TO STORY SHEATHING



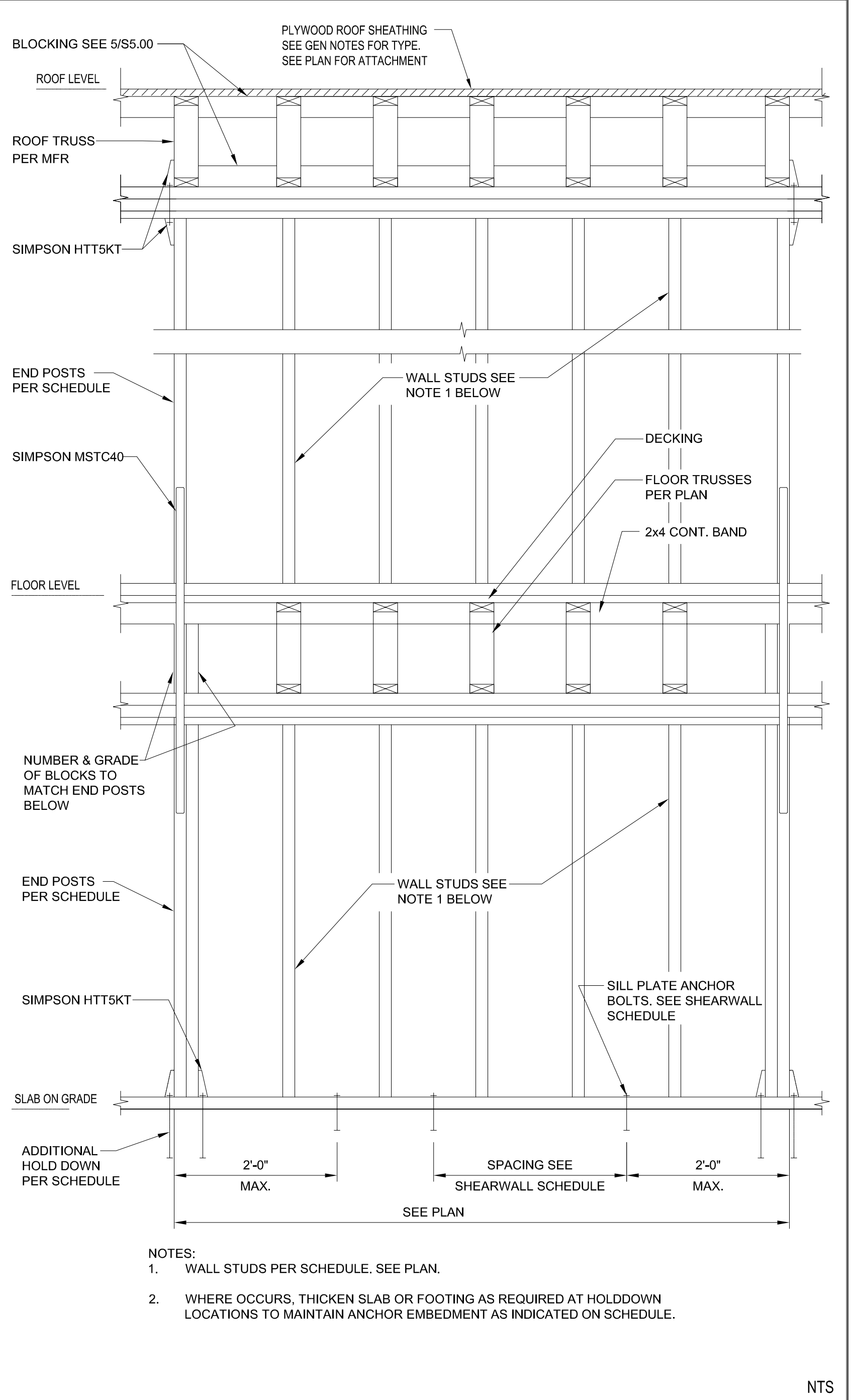
3 SW1 & SW2 ELEVATION

| SHEAR WALL SCHEDULE |          |                                    |                          |               |                              |
|---------------------|----------|------------------------------------|--------------------------|---------------|------------------------------|
| MARK                | FLOOR    | PANEL TYPE<br>SEE ARCH<br>ASSEMBLY | # OF PANELS<br>(NOTE #3) | PANEL NAILING |                              |
|                     |          |                                    |                          | NAIL SIZE     | EDGE SUPPORT<br>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

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ENGINEERS, PLLC

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SIGNATURE:

CUSTOMER:  
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

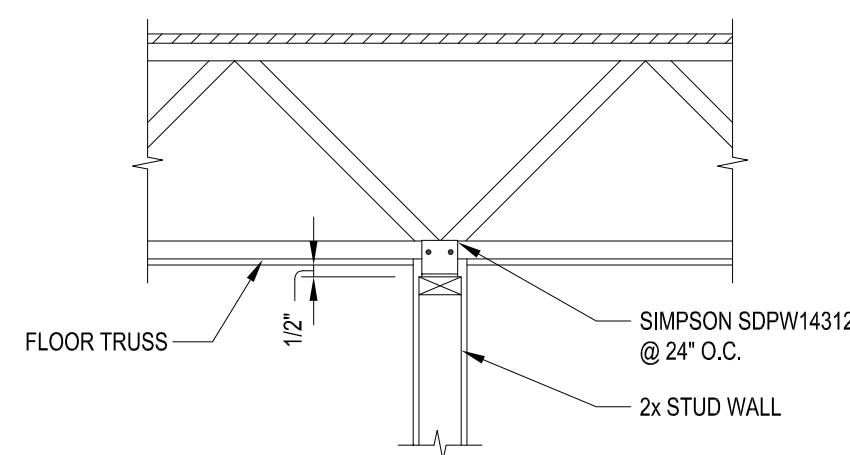
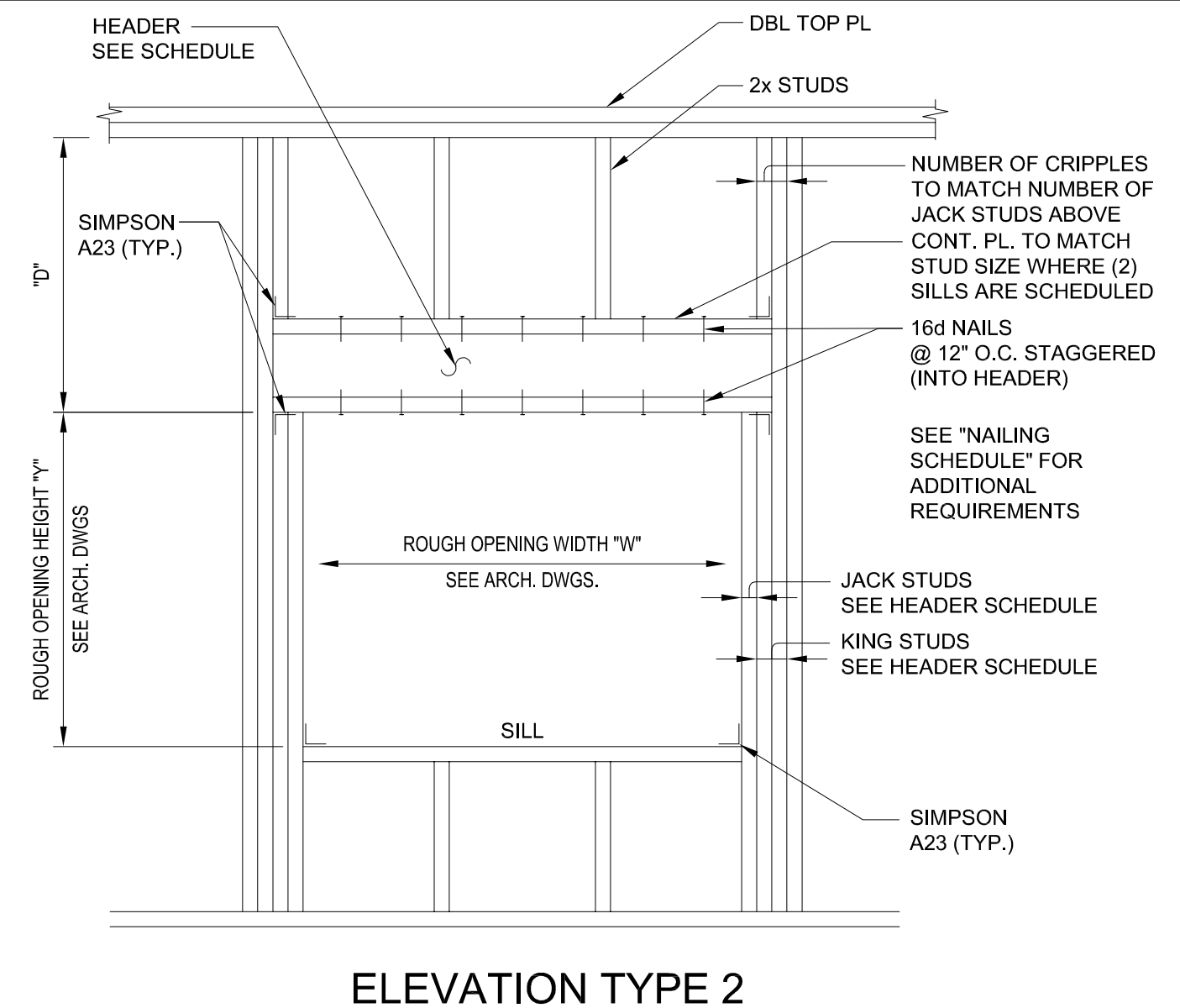
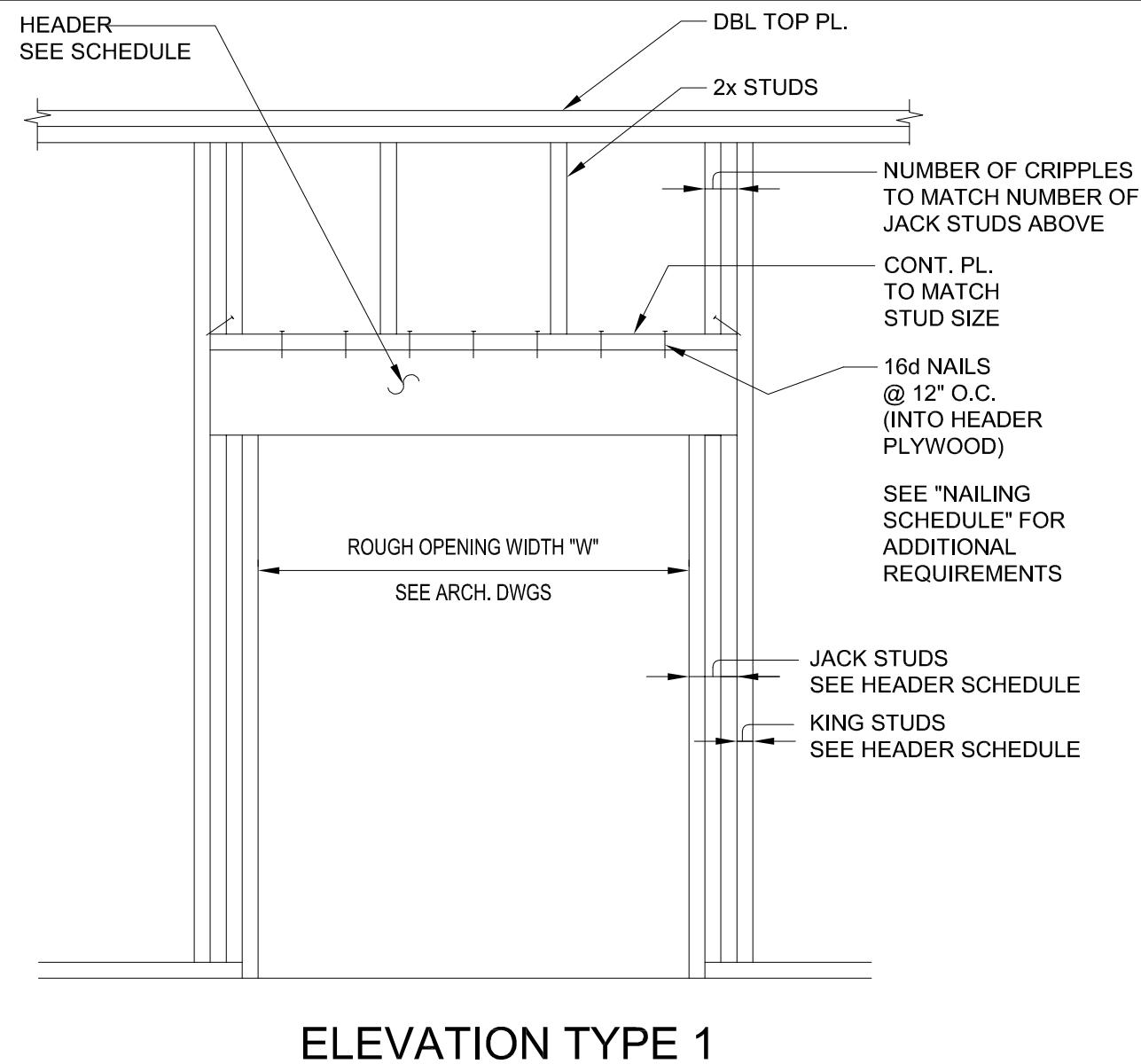
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ISSUE DATE: 09/27/24  
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TYPICAL DETAILS

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S-1.02





@ WALL PERPENDICULAR TO FLOOR TRUSS

## NOTHING OR BORING

N.T.S.

## DOOR AND WINDOW ELEVATIONS

N.T.S.

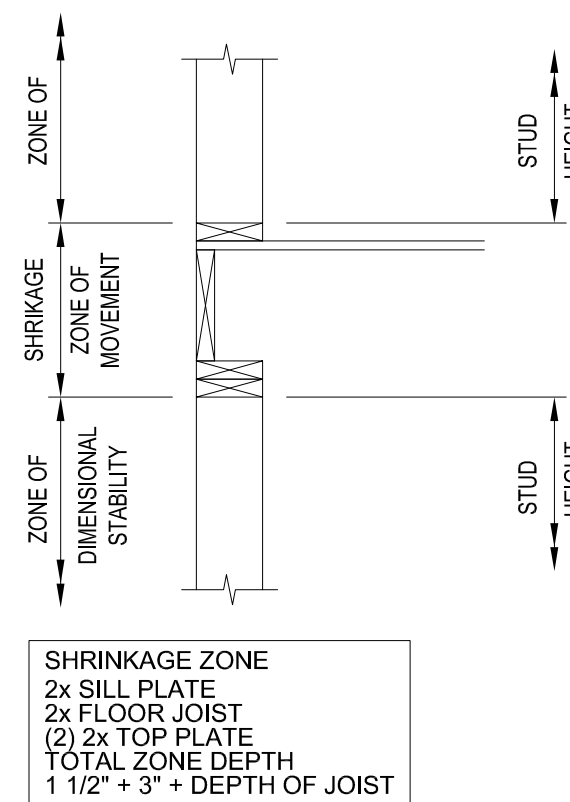
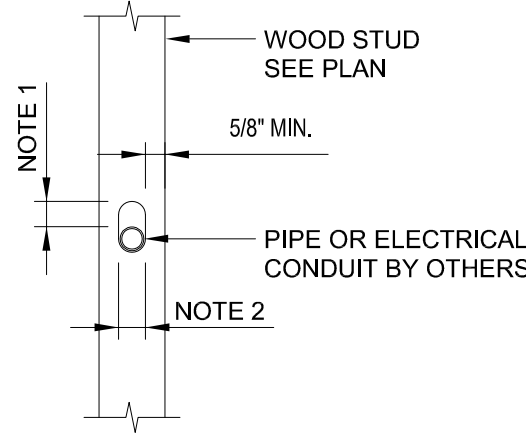
## 1 BEARING & SHEAR WALL STUDS

## 2 FRAMED OPENINGS

INTERNATIONAL BUILDING CODE 2018: SECTION 2304.3.3  
WOOD WALLS AND BEARING PARTITIONS SHALL NOT SUPPORT MORE THAN TWO FLOORS AND A ROOF  
UNLESS AN ANALYSIS SATISFACTORY TO THE BUILDING OFFICIAL SHOWS THE SHRINKAGE OF THE WOOD  
FRAMING WILL NOT HAVE ADVERSE EFFECTS ON THE STRUCTURE OR ANY P,M,E SYSTEMS OR OTHER EQUIPMENT

$S = C * D * (M_e - M_i)$

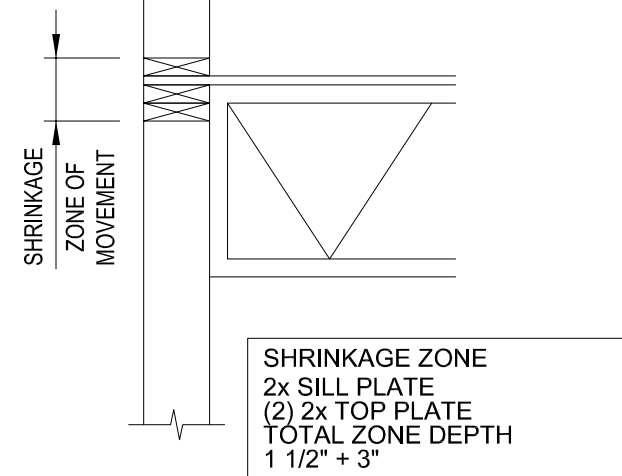
S = SHRINKAGE  
C = DIMENSIONAL CHANGE COEFFICIENT (FROM WOOD HANDBOOK;  
CONSERVATIVELY, THE WORST CASE OF  $C_1$  IS TYPICALLY USED)  
 $D_1$  = CROSS SECTIONAL DIMENSION OF WOOD SUBJECT TO SHRINKAGE  
(SHRINKAGE ZONE)  
 $M_f$  = FINAL WOOD MC  
 $M_i$  = INITIAL WOOD MC



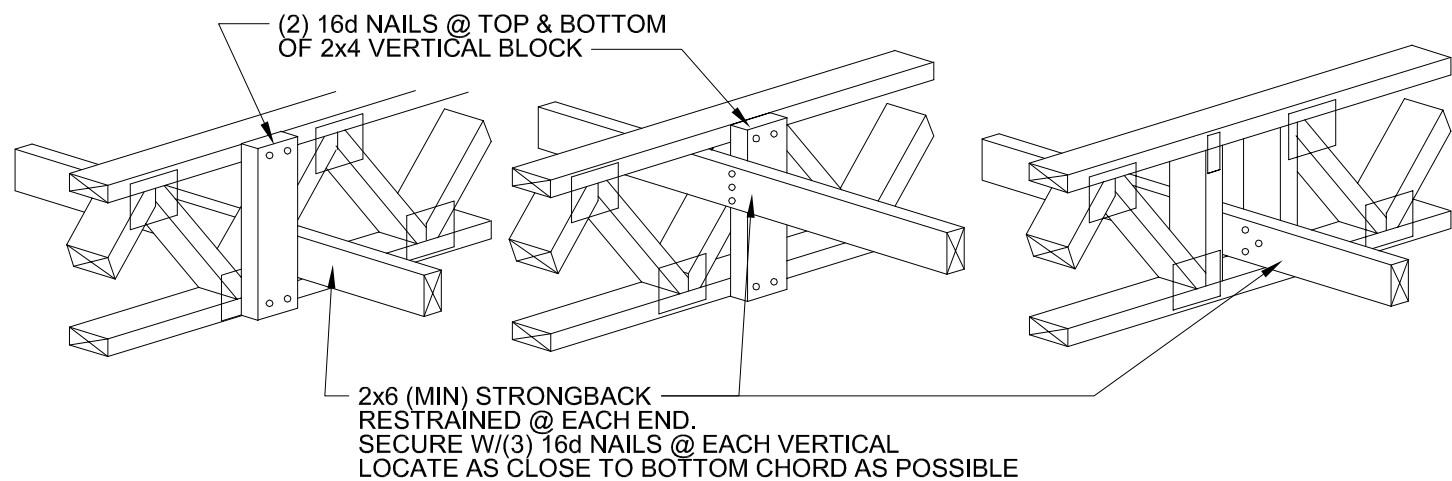
NOTE: 1  
TOTAL ACCUMULATED  
ANTICIPATED SHRINKAGE  
AT LEVEL - SEE SCHEDULE

NOTE: 2  
MAX OPENING IN BEARING  
OR EXTERIOR STUD:  
2x4 STUD: 1 1/2"  
2x6 STUD: 2 1/4"

| WOOD SHRINKAGE SCHEDULE |                       |
|-------------------------|-----------------------|
| FLOOR LEVEL             | ANTICIPATED SHRINKAGE |
| ROOF                    | N/A                   |
| 3RD FLOOR               | 0.561 in              |
| 2ND FLOOR               | 0.378 in              |
| 1ST FLOOR               | 0.187 in              |

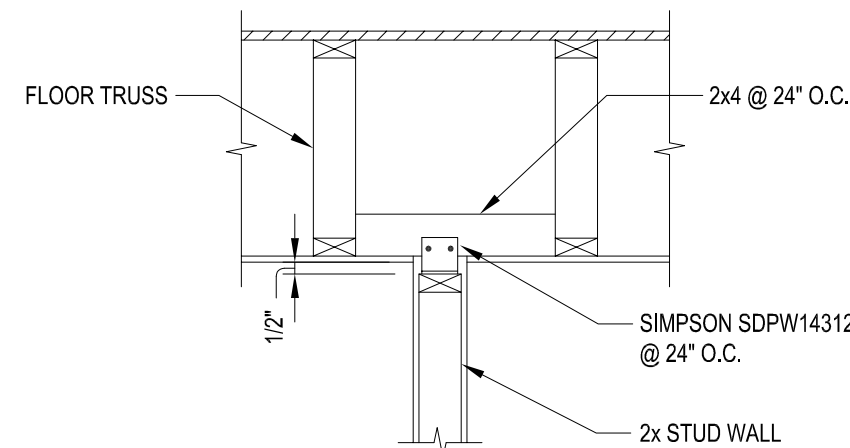


N.T.S.



STRONGBACKS SPACED AT 10'-0" (MAX) ARE REQUIRED TO MAINTAIN CERTAIN FIRE ASSEMBLIES.  
STRONGBACKS ARE RECOMMENDED TO MINIMIZE VIBRATION

## FLOOR TRUSS



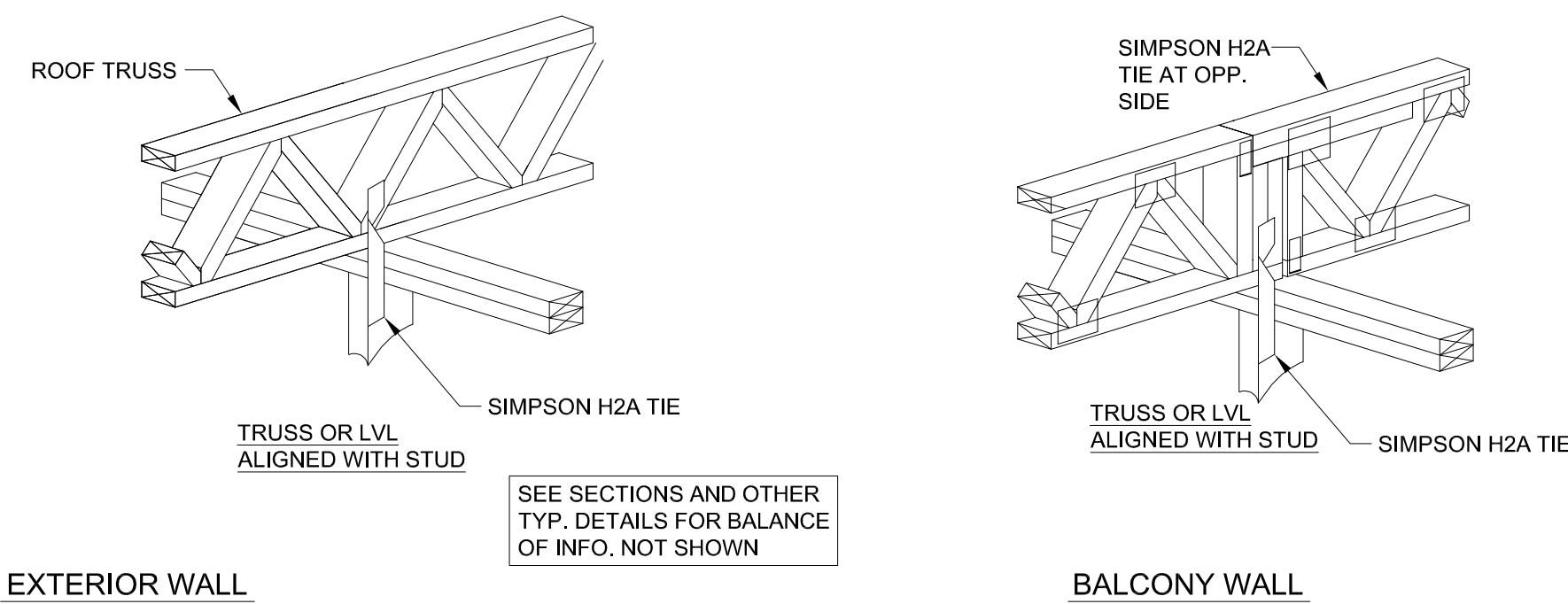
@ WALL PARALLEL TO FLOOR TRUSS

N.T.S.

### 3 WOOD SHRINKAGE DETAIL

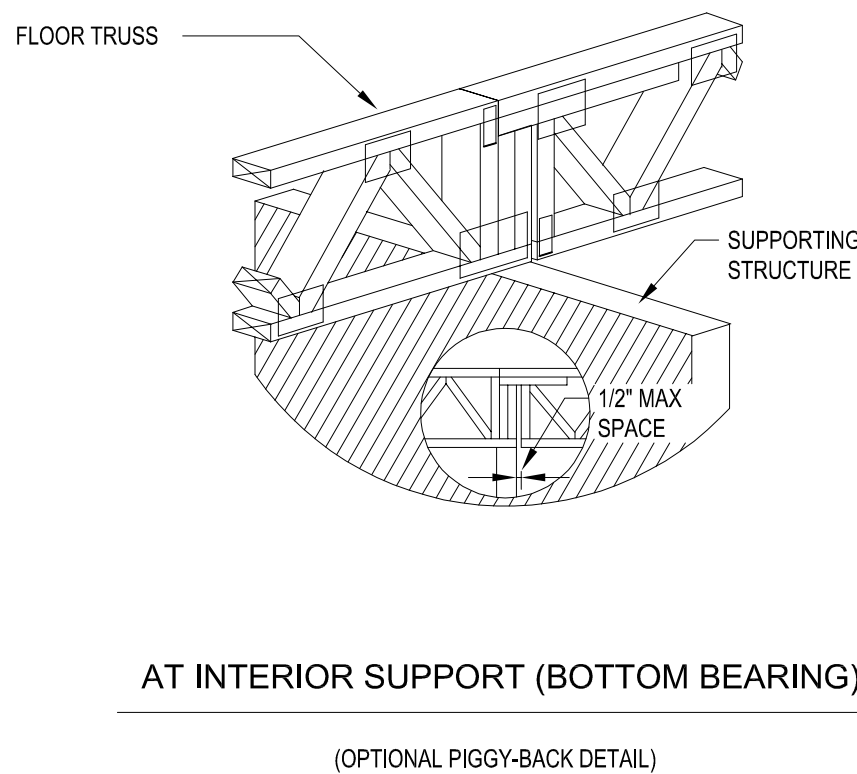
## 4 STRONG BACK DETAILS

## 5 NON LOAD BEARING INT. WALL



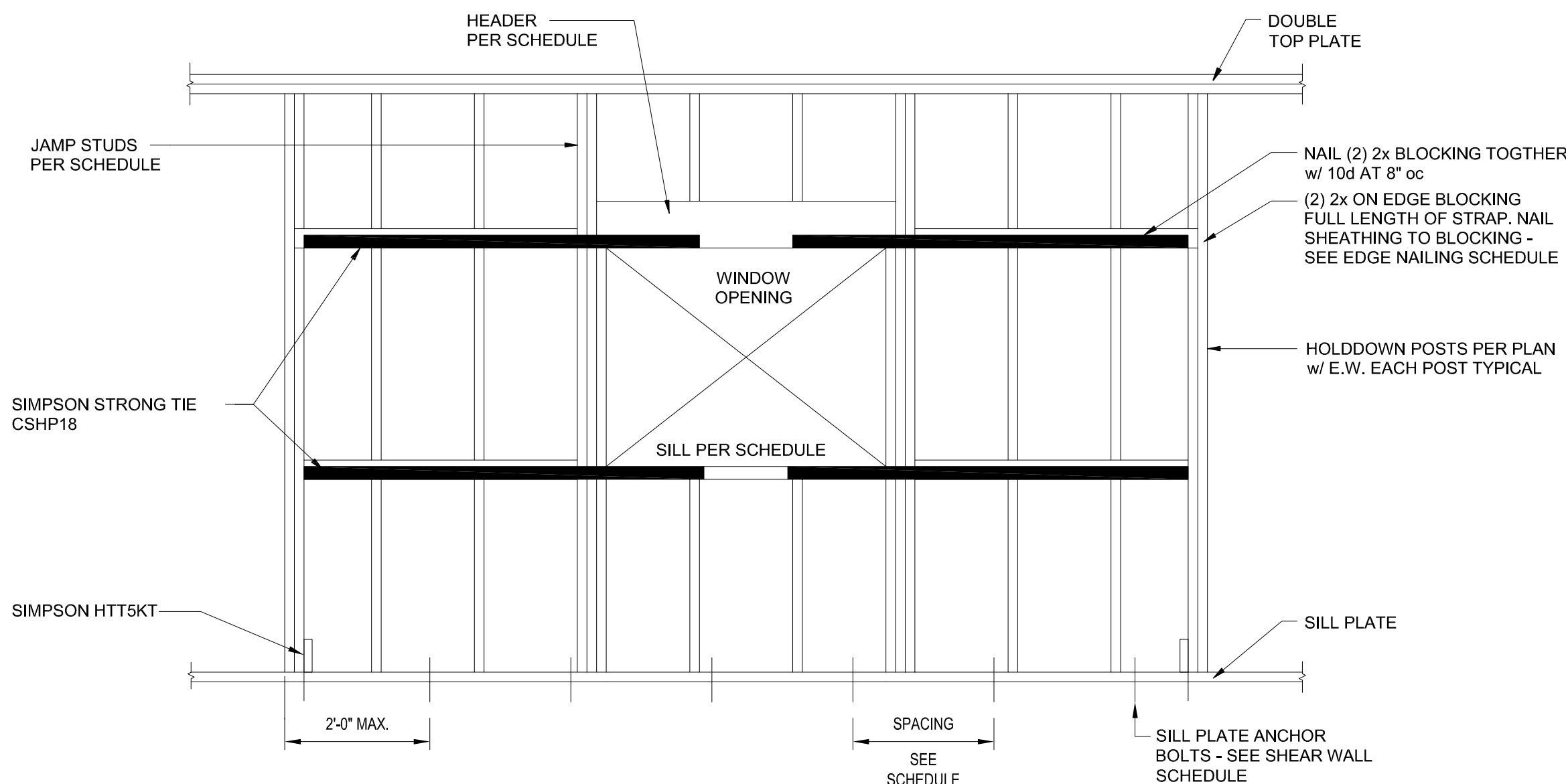
## TYPICAL

N.T.S.



## TYPICAL

N.T.S.



N.T.S.

**SIGNATURE**

CLIENT

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Luis Graef: President



PROJEC

The Orchards at Naples Road  
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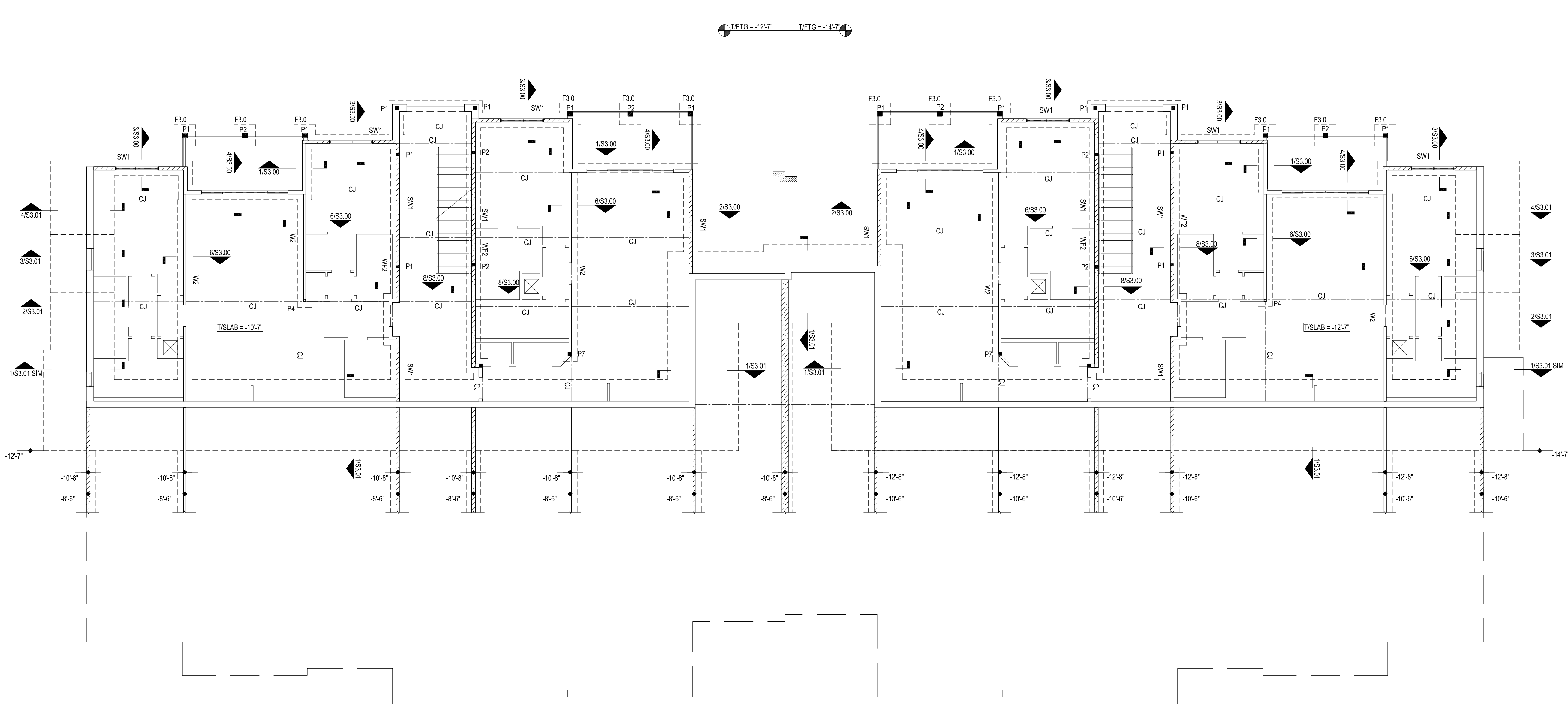
**BRIEF DESCRIPTION :**

## TYPICAL DETAILS

SHEET #

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BASEMENT FOUNDATION PLAN

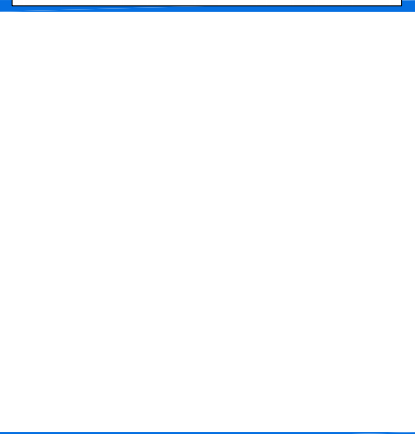
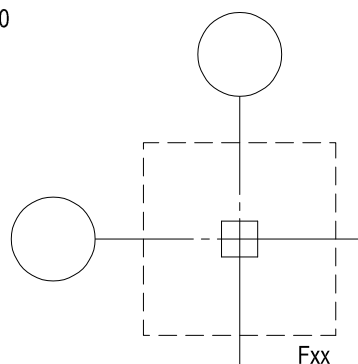
SCALE: 1/8" = 1'-0"

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'c= 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 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

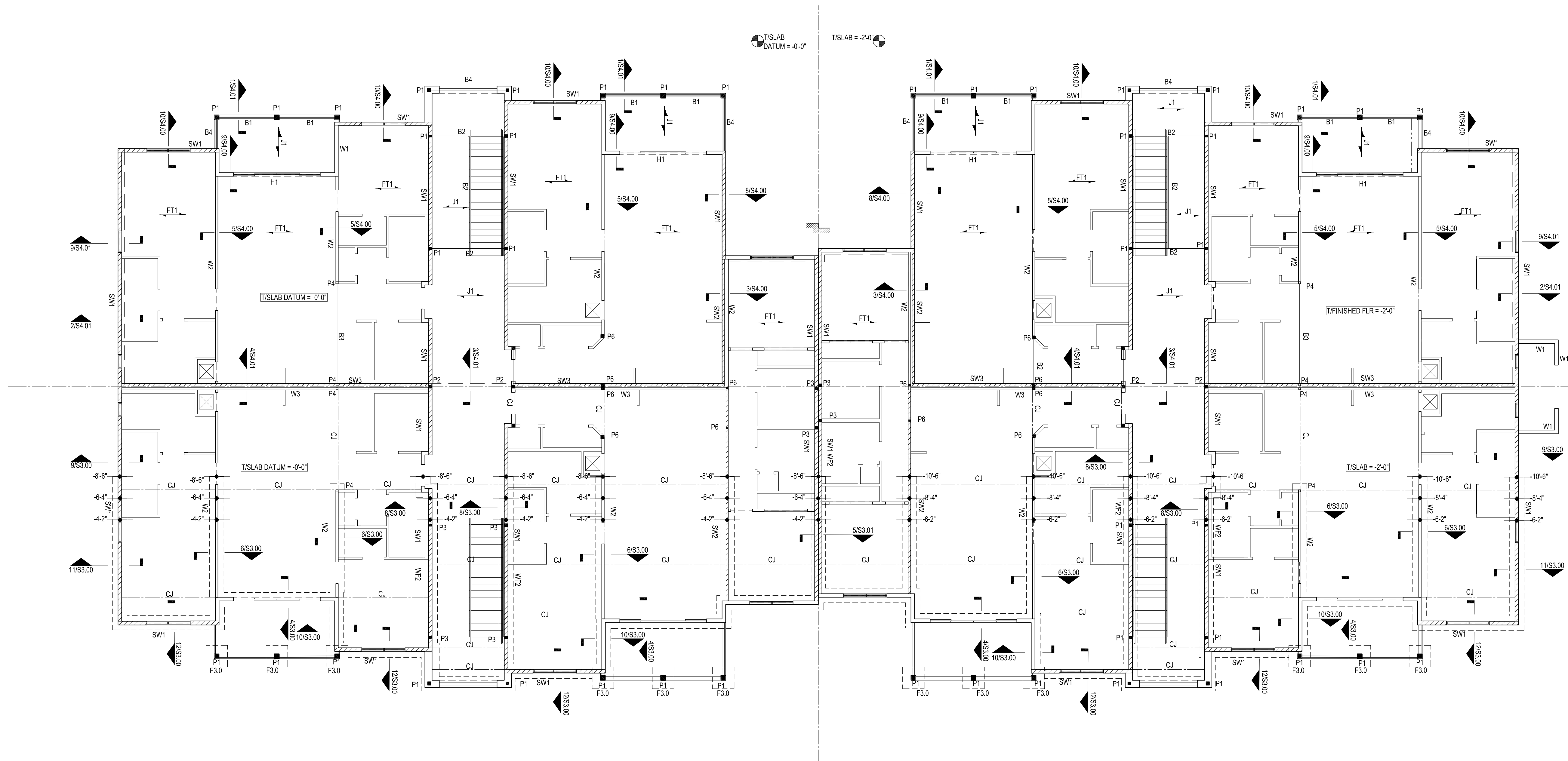
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DWG INFO:  
ISSUE DATE: 09/27/24  
PROJECT #: 22105  
DRAWN BY:  
CHECKED BY:

DWG DESCRIPTION:  
BUILDINGS 1 & 6 BASEMENT  
FOUNDATION PLAN

SHEET #:  
**S-2.01B**





FIRST FLOOR FOUNDATION & FRAMING PLAN

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

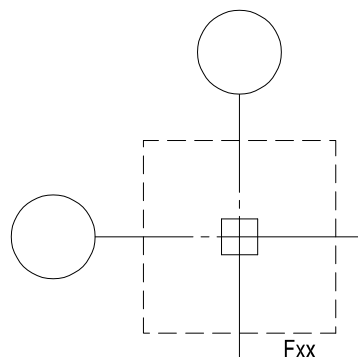
LEGEND:

- 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 -6'14", 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., WF1 TYP U.N.O. SEE S/8-S1.02 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

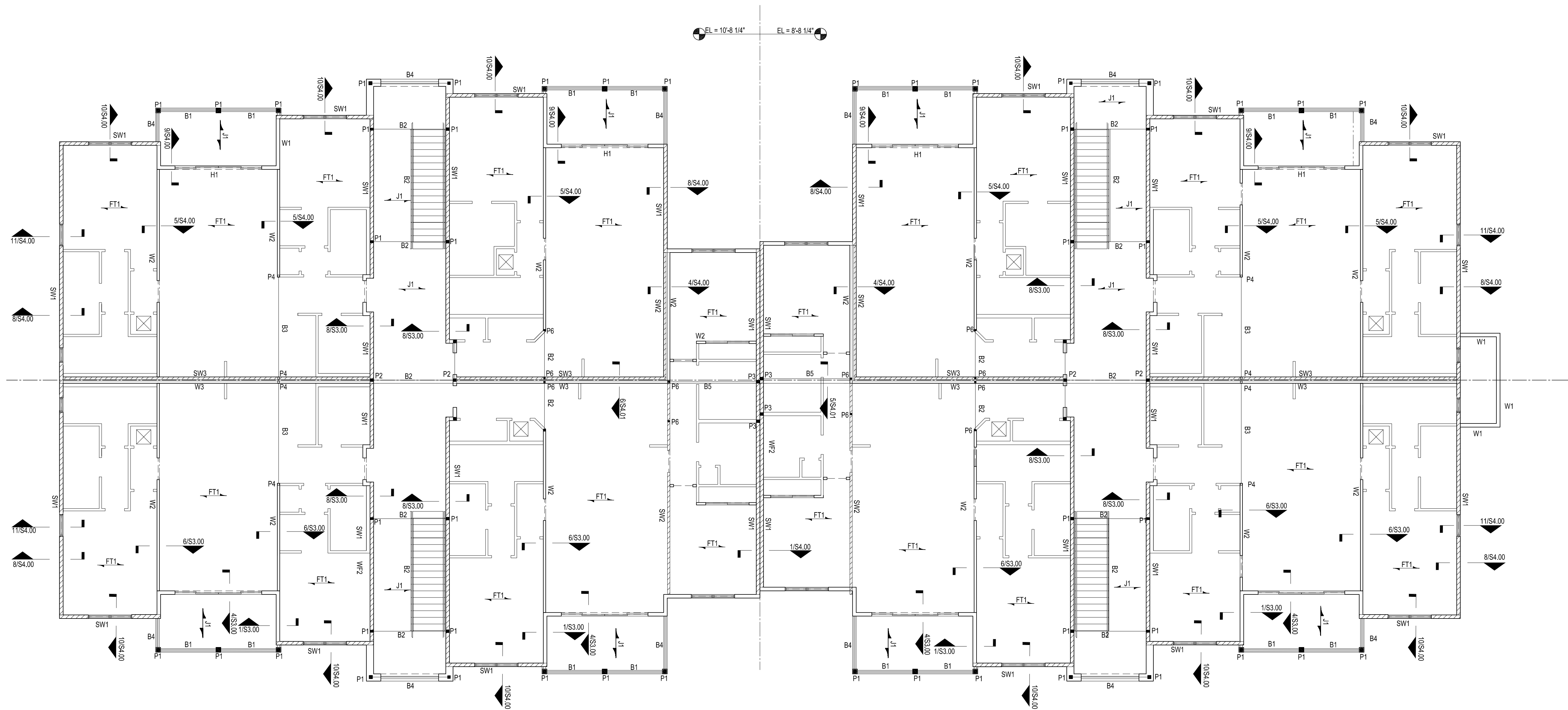
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DWG INFO:  
ISSUE DATE: 09/27/24  
PROJECT #: 22105  
DRAWN BY:  
CHECKED BY:

DWG DESCRIPTION:  
BUILDINGS 1 & 6 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.
- 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 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/S-1.02 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

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DWG INFO:

ISSUE DATE: 09/27/24  
PROJECT #: 22105  
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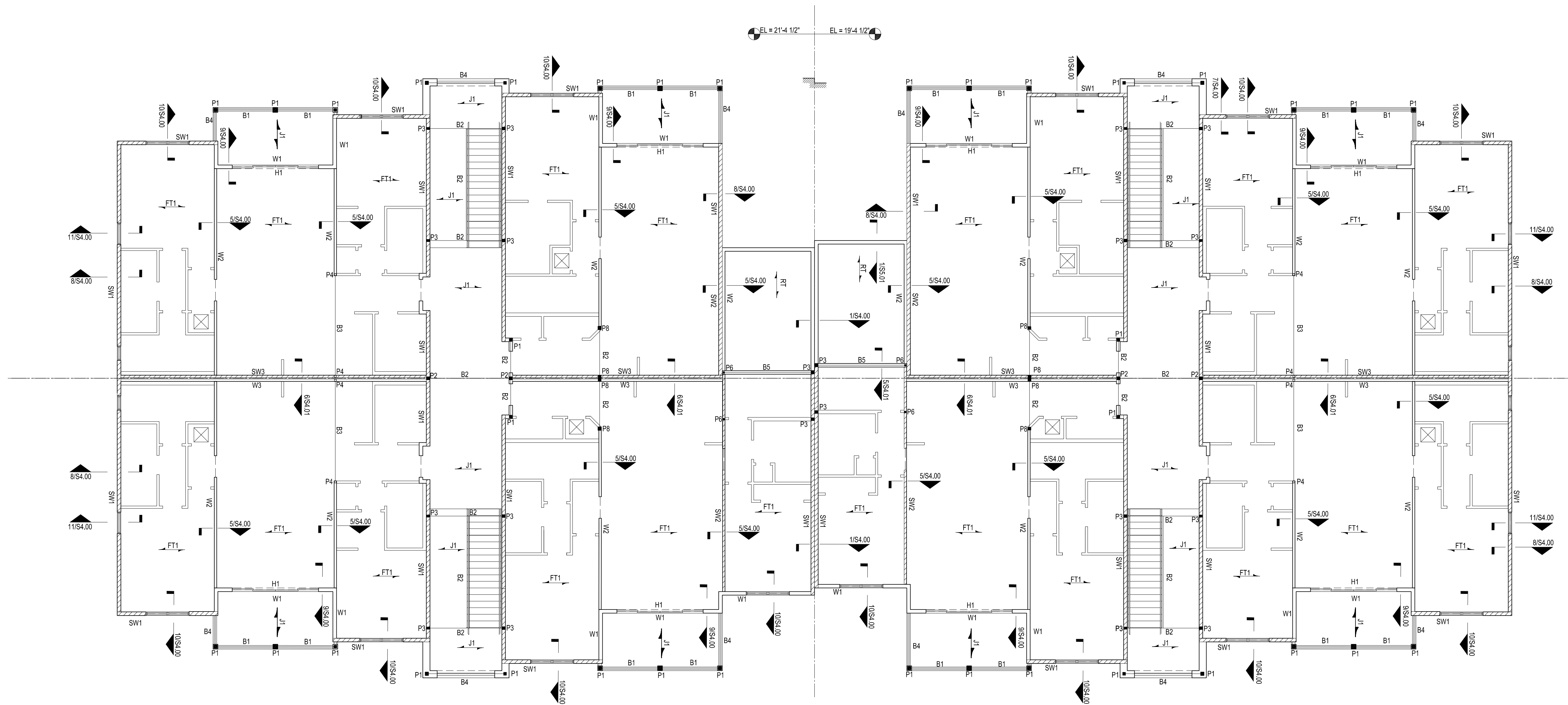
DWG DESCRIPTION:

BUILDINGS 1 & 6 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.
- 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 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/S-1.02 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

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DWG INFO:

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

DWG DESCRIPTION:

BUILDINGS 1 & 6 THIRD  
FLOOR FRAMING PLAN

SHEET #:

S-2.04

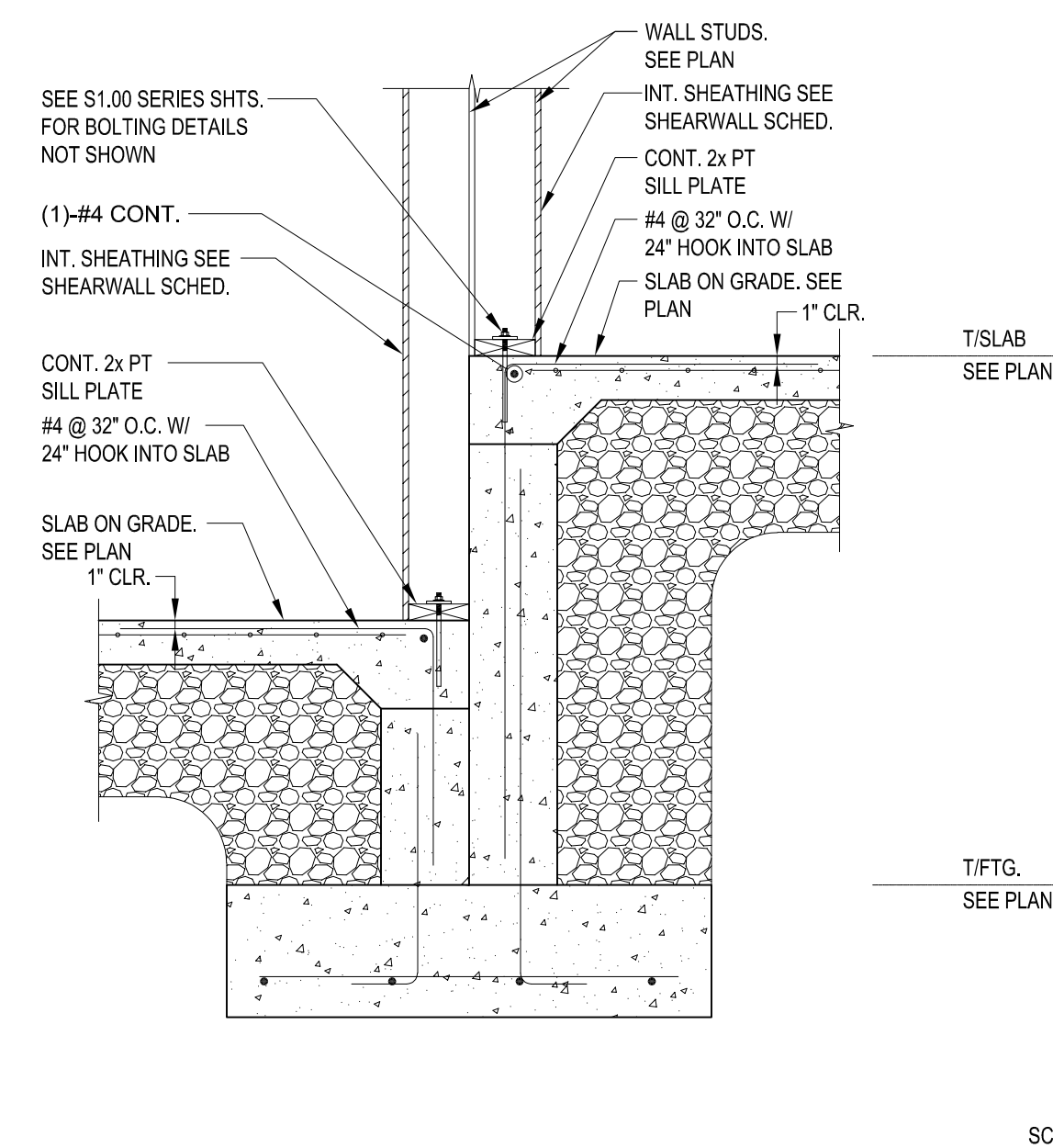
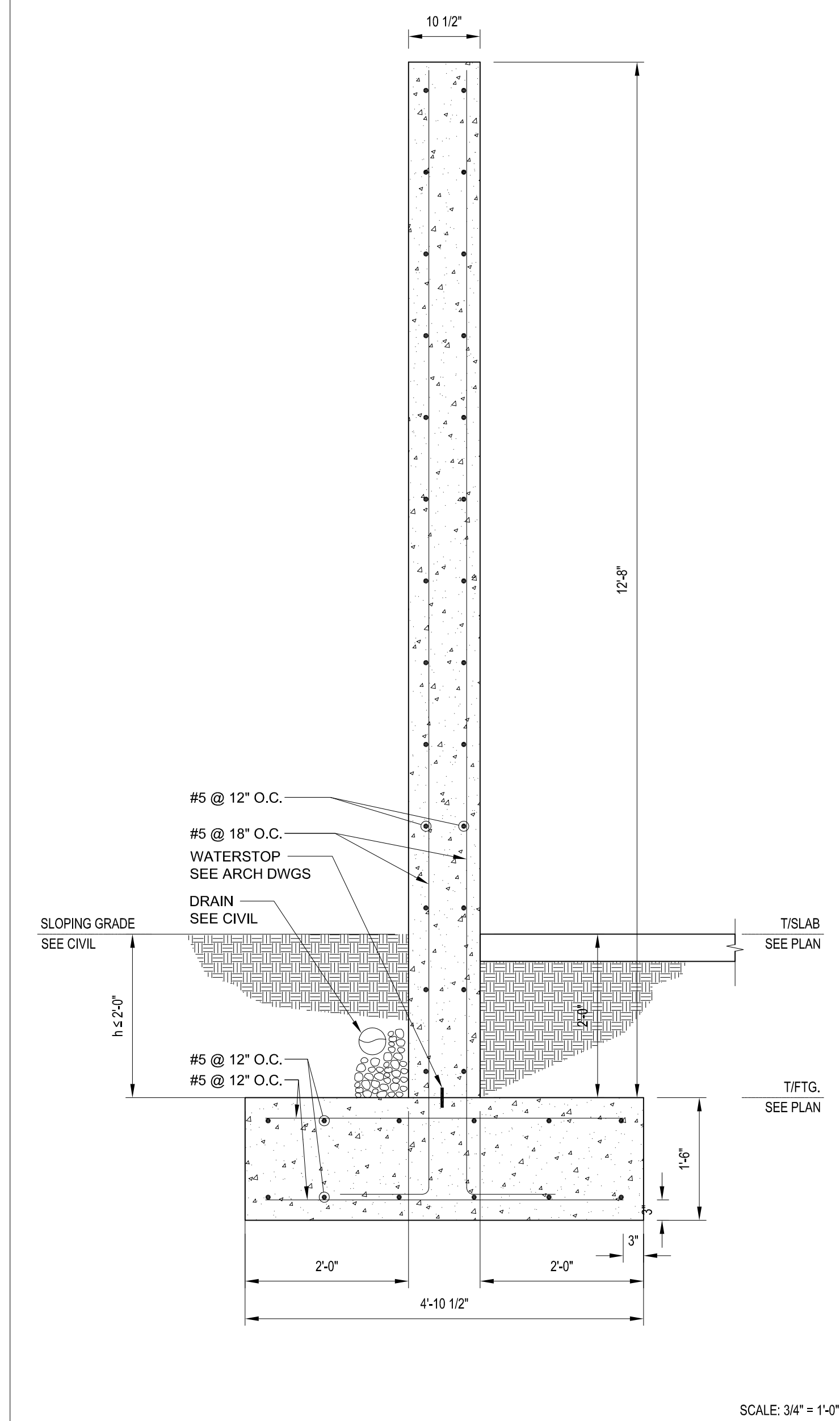
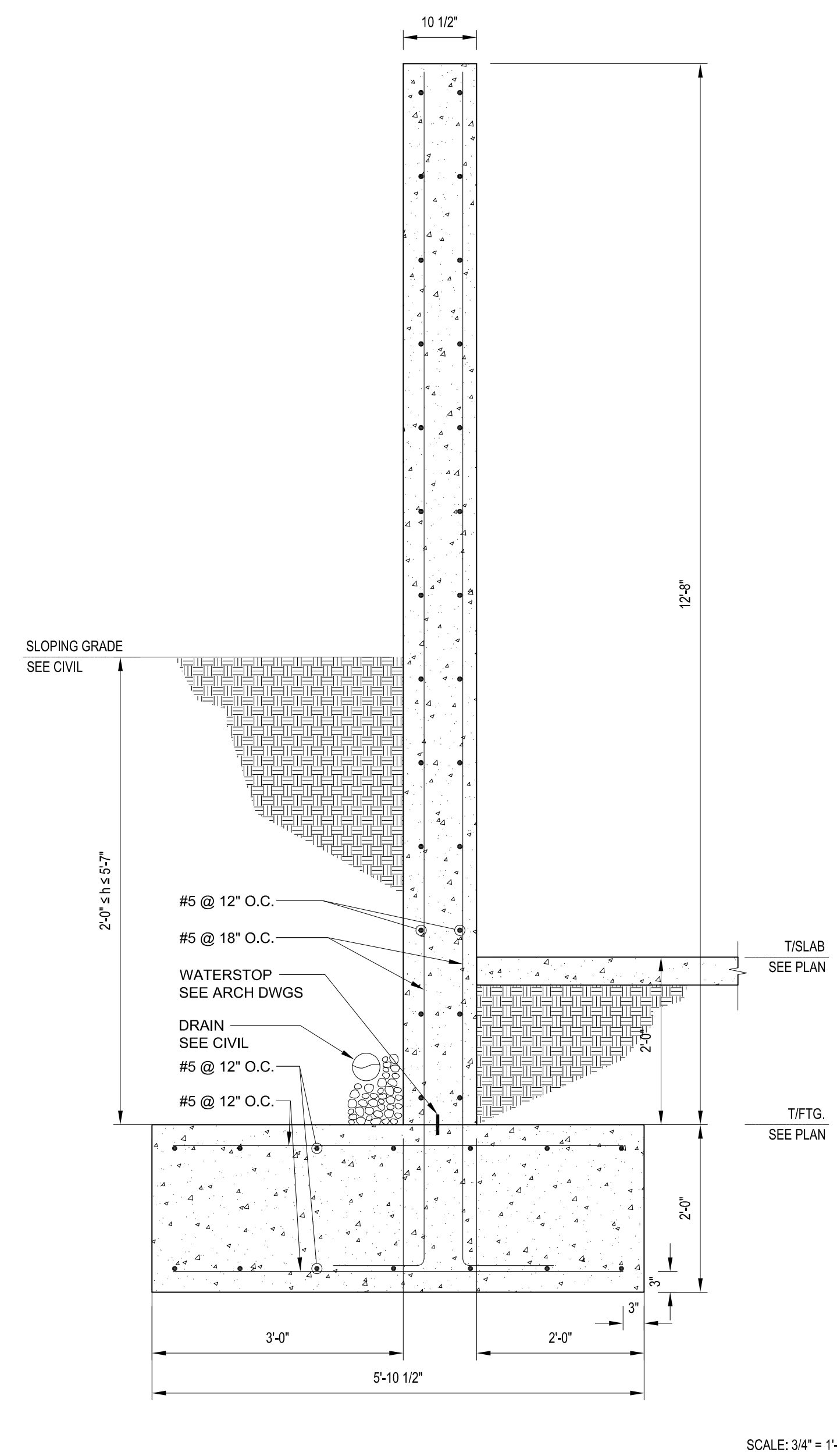
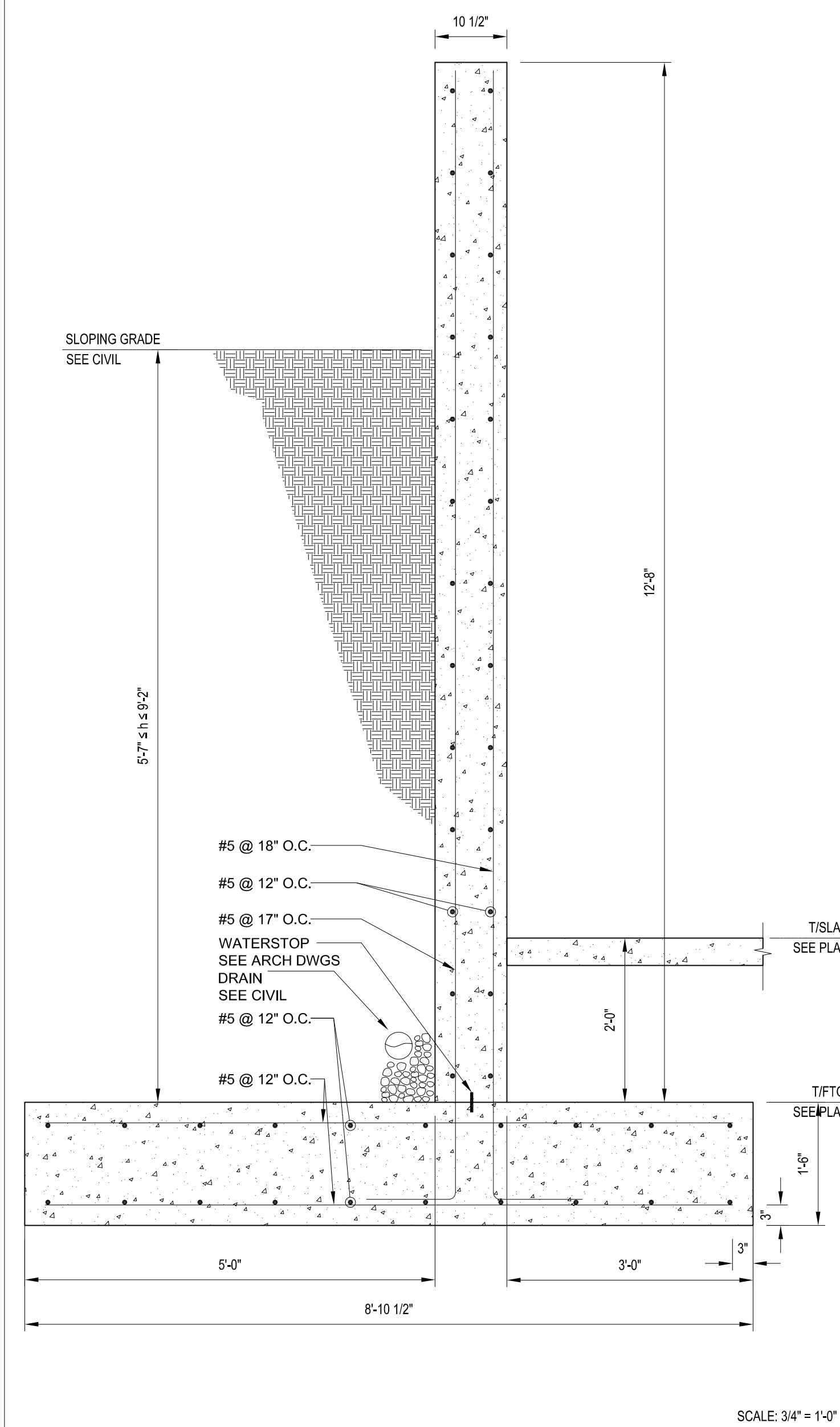
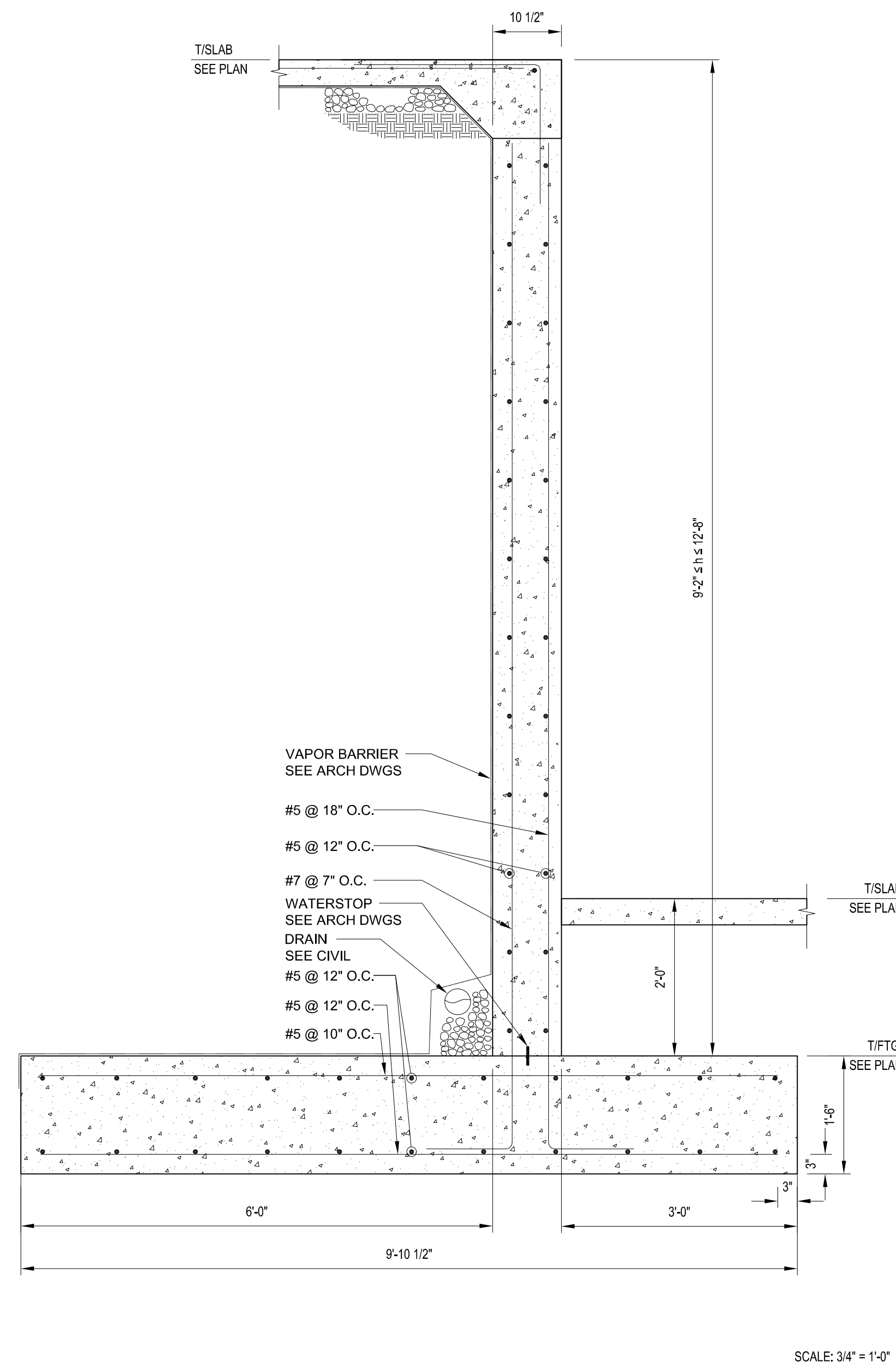




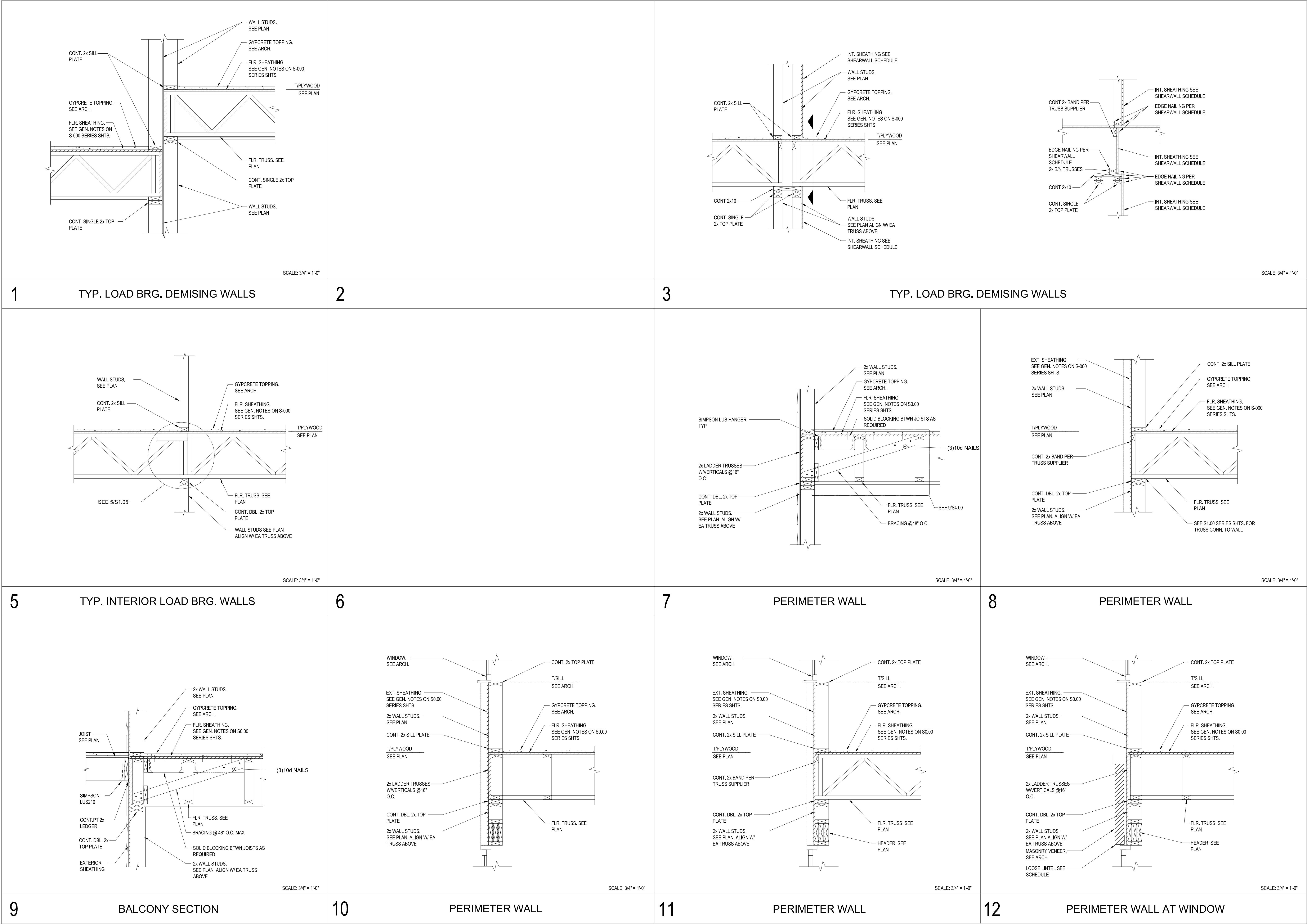












JDH  
STRUCTURAL  
ENGINEERS, PLLC

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

PROJECT:

The Orchards at Naples Road  
Apartment Complex  
Hendersonville, North Carolina

| # | REVISIONS | DATE |
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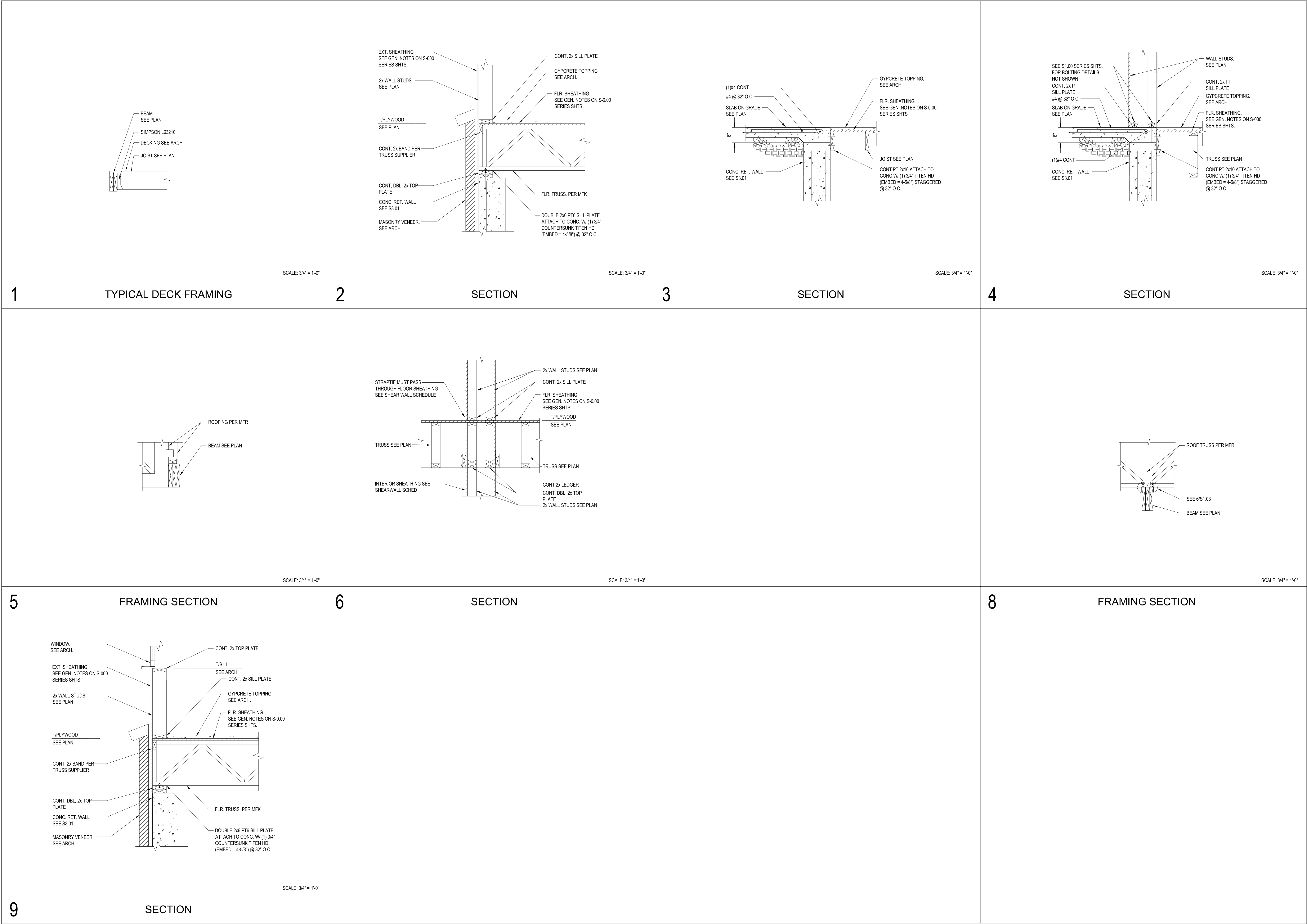
DWG DESCRIPTION :

FLOOR FRAMING  
SECTIONS

SHEET #:

S-4.00





JDH

STRUCTURAL

ENGINEERS, PLLC

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

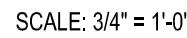
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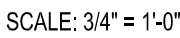
DWG DESCRIPTION :  
FLOOR FRAMING  
SECTIONS

SHEET #:  
S-4.01

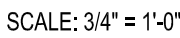




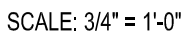
## 2 INTERIOR SHEAR WALL



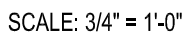
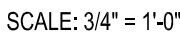
### 3 INTERIOR TRUSS BEARING



## 4 TRUSS BEARING ON BEAM



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



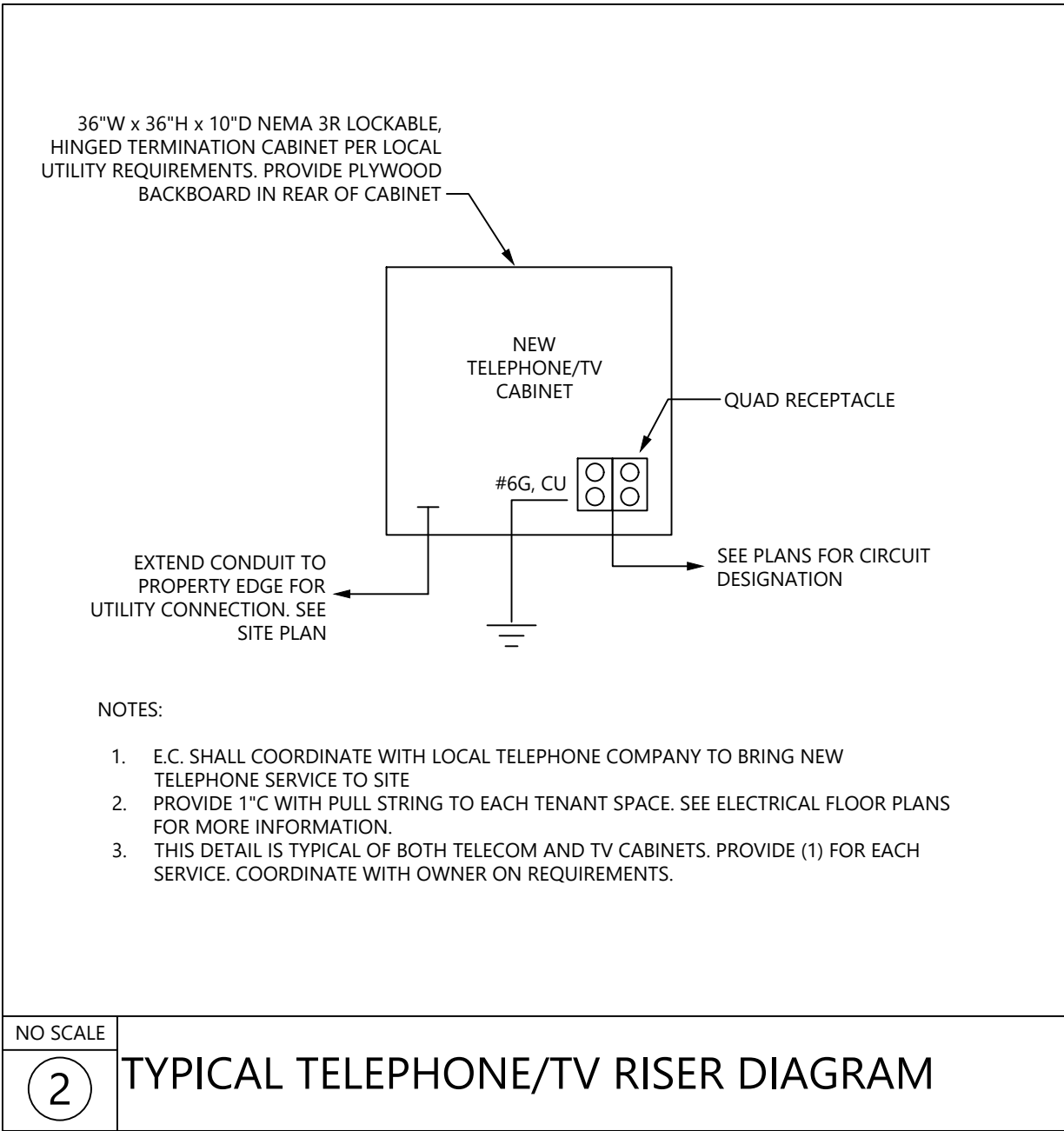
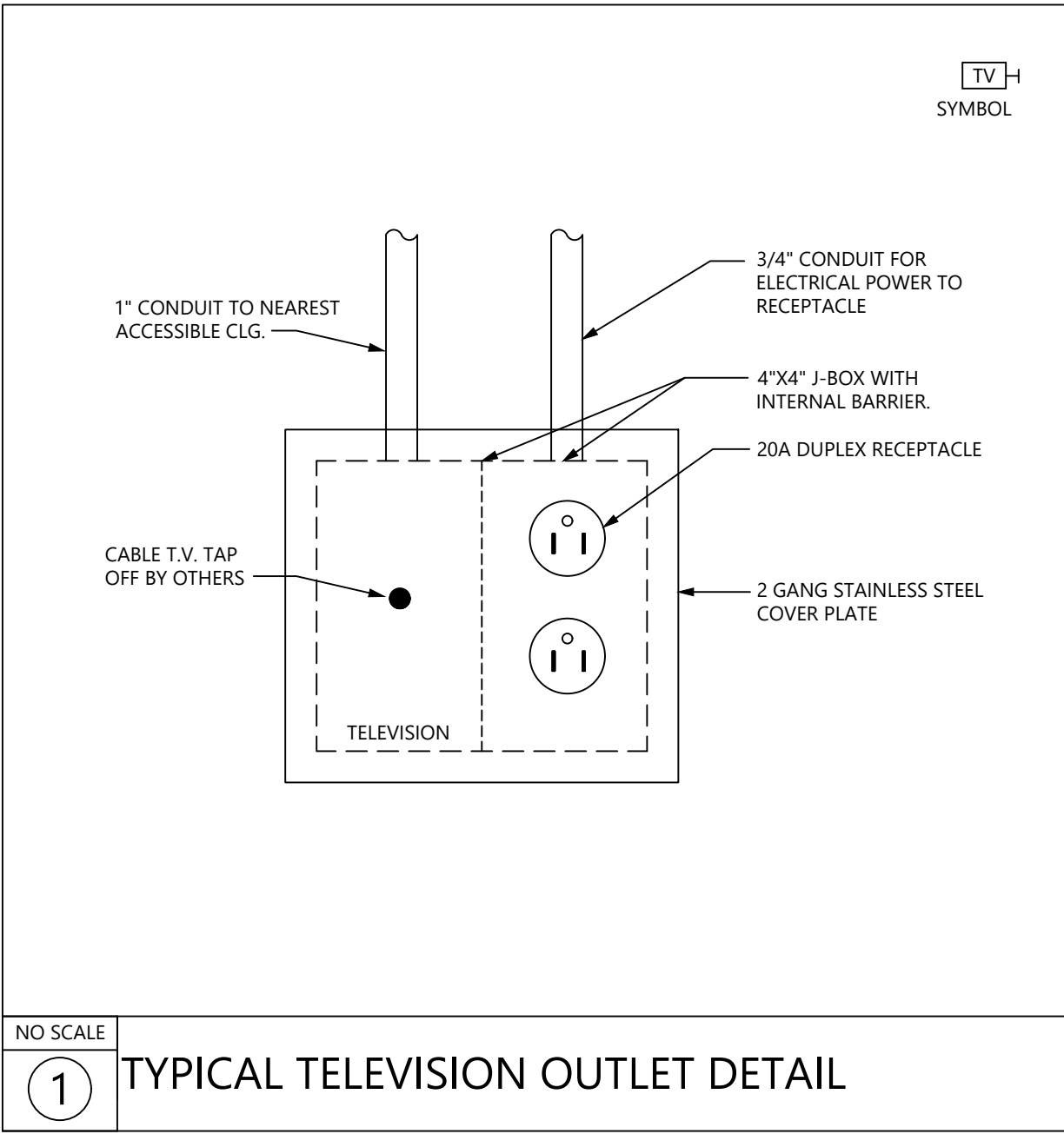
5 TRUSS BEARING SECTION DETAIL

## 6 ROOF TRUSS SECTION

## 7 ROOF TRUSS SECTION

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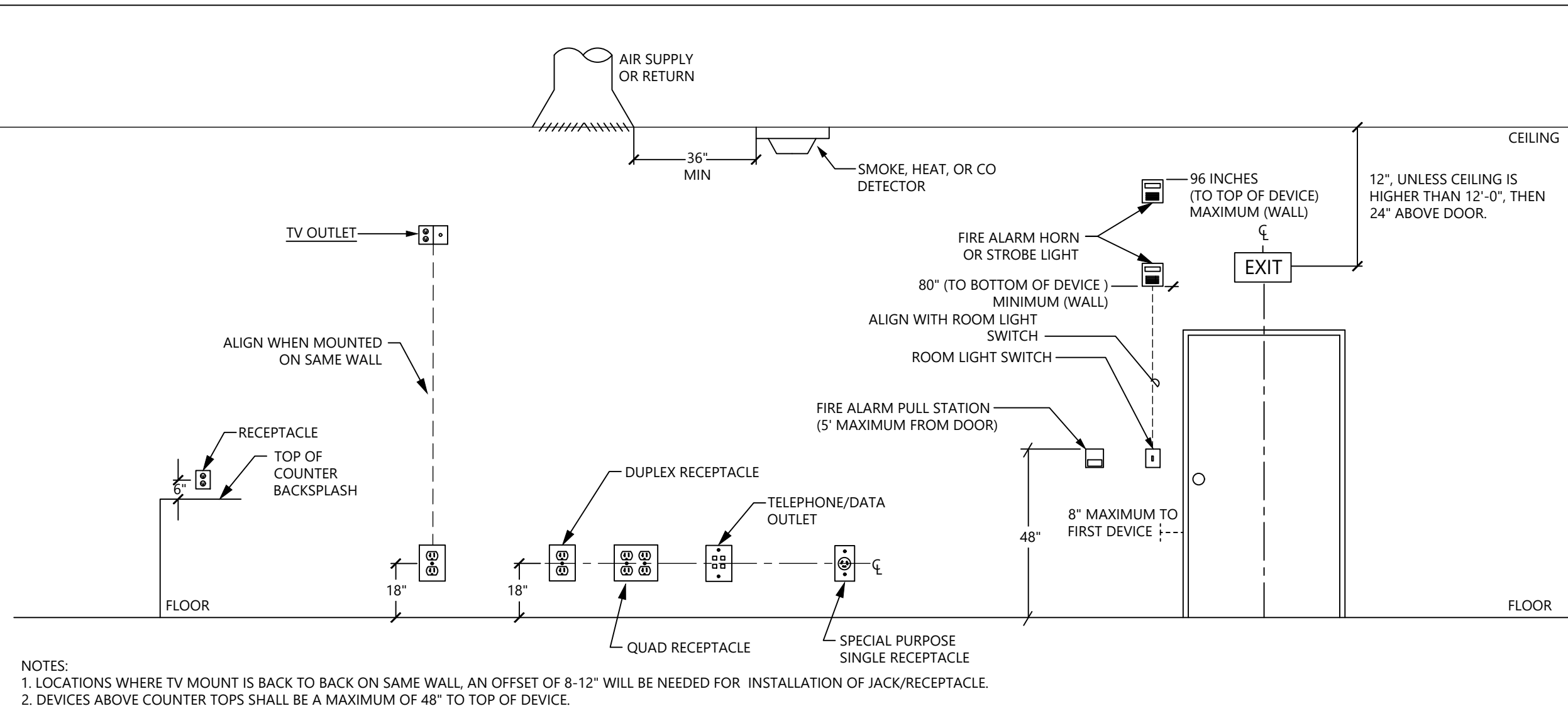




| LIGHT FIXTURE SCHEDULE |   |        |       |       |   |         |                |                |  |
|------------------------|---|--------|-------|-------|---|---------|----------------|----------------|--|
| TYPE                   | DESCRIPTION   | LUMENS | CCT   | WATTS | DRIVER  | VOLTAGE | MANUFACTURER   | MODEL          | REMARKS  |
| A                      | 6" ROUND SURFACE MOUNTED DOWNLIGHT  | 1,000  | 3000K | 15W   | INTEGRAL LED DRIVER                             | 120V    | PRESCOLITE     | LBSD-RD        | MATTE WHITE FINISH<br>FIELD SELECTABLE LUMENS<br>SWITCHABLE CCT  |
| B                      | BREEZEWAY EXTERIOR WALL LIGHT   | 546    | 3000K | 12.5W | INTEGRAL LED DRIVER                             | 120V    | LIGHTWAY       | MENW-600-LED-F | VERIFY FINISH WITH ARCHITECT<br>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<br>WET LOCATION LISTED  |
| D                      | 4 FT. LED STRIP   | 5,000  | 3500K | 42W   | INTEGRAL LED DRIVER<br>(STANDARD 0-10V DIMMING) | UNIV    | COOPER         | SNX            | PROVIDE CHAIN FOR PENDANT<br>MOUNTING<br>PROVIDE WIRE GUARD<br>LENSED<br>DLC LISTED  |
| E1                     | EXTERIOR EMERGENCY BATTERY<br>EGRESS LIGHT AIMABLE  | -      | 3500K | 2W    | INTEGRAL LED DRIVER                             | 120V    | EXIT LIGHT CO. | EL-LWET        | TEST SWITCH PROVIDED<br>SEALED 90 MINUTE BATTERY<br>WHITE  |
| E2                     | EXTERIOR EMERGENCY BATTERY<br>EGRESS LIGHT AND EXIT COMBO   | -      | 3500K | 3W    | INTEGRAL LED DRIVER                             | 120V    | EXIT LIGHT CO. | WLF-COMBO      | TEST SWITCH PROVIDED<br>SEALED 90 MINUTE BATTERY<br>WET LOCATION LISTED<br>RATED FOR OUTDOOR USE<br>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 RECEPTACES.  |
|                      | 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 RECEPTACES AND ONE COMM. PLATE WITH PROVISION FOR SIX RJ45 CAT6 JACKS. EQUAL TO WIREMOLD RF66-OG-8CT. ARCHITECT TO SELECT FINISH. STUB FROM BOX ONE CONCEALED 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<br><input checked="" type="checkbox"/> 2018 NCECC CHAPTER 4<br><input type="checkbox"/> N/A BASED ON PROJECT SCOPE<br><input type="checkbox"/> NC SPECIFIC COMCHECK PROVIDED<br><input type="checkbox"/> ASHRAE 90.1-2013  |  |
| C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS<br><input type="checkbox"/> C406.1.1 EFFICIENT MECH EQUIPMENT<br><input checked="" type="checkbox"/> C406.1.2 REDUCED LTG DENSITY<br><input type="checkbox"/> C406.1.3 ENHANCED DIGITAL LTG CNTLS<br><input type="checkbox"/> NOT APPLICABLE BASED ON PROJECT SCOPE<br><input type="checkbox"/> C406.1.4 ON-SITE RENEWABLE ENERGY<br><input type="checkbox"/> C406.1.5 DEDICATED OA SYSTEM<br><input type="checkbox"/> C406.1.6 HI-EFF SERVICE WTR HTG  |  |
| C408 - SYSTEM COMMISSIONING:<br><input type="checkbox"/> BUILDING IS LESS THAN 10,000 SQUARE FEET AND IS EXEMPT FROM THE SYSTEM COMMISSIONING REQUIREMENTS OF SECTION C408.<br><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):<br><input checked="" type="checkbox"/> LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION C405.2, EXCEPT WHERE EXEMPT.<br><input type="checkbox"/> NOT APPLICABLE  |  |
| C405.3 - EXIT SIGNS (MANDATORY REQUIREMENTS):<br><input checked="" type="checkbox"/> INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE.<br><input type="checkbox"/> NOT APPLICABLE  |  |
| C405.4 - INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT):<br><input type="checkbox"/> NOT APPLICABLE PER 2018 NCECC C503.1, EXCEPTION 2.G.<br>C405.4.1 - TOTAL <u>CONNECTED</u> INTERIOR LIGHTING POWER:<br>12,410 WATTS SPECIFIED<br>25 % REDUCTION OF SPECIFIED VS. ALLOWED (APPLICABLE IF C406.1.2 IS SELECTED)<br>C405.4.2 - TOTAL <u>ALLOWABLE</u> INTERIOR LIGHTING POWER:<br>METHOD OF COMPLIANCE:<br><input checked="" type="checkbox"/> BUILDING AREA METHOD<br><input type="checkbox"/> SPACE-BY-SPACE METHOD<br>16,468 WATTS ALLOWED |  |
| C405.5.1 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT):<br><input type="checkbox"/> NOT APPLICABLE<br>TOTAL <u>CONNECTED</u> EXTERIOR LIGHTING POWER:<br>970 WATTS SPECIFIED<br>TOTAL <u>ALLOWABLE</u> EXTERIOR LIGHTING POWER:<br>2,110 WATTS ALLOWED   |  |
| C405.6 - ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS):<br><input type="checkbox"/> SEPARATE ELECTRICAL METERING HAS BEEN PROVIDED FOR EACH DWELLING UNIT IN GROUP R-2 BUILDINGS.<br><input checked="" type="checkbox"/> NOT APPLICABLE   |  |
| C405.7 - ELECTRICAL TRANSFORMERS (MANDATORY REQUIREMENTS):<br><input type="checkbox"/> ELECTRICAL TRANSFORMERS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.7, EXCEPT WHERE EXEMPT.<br><input checked="" type="checkbox"/> NOT APPLICABLE  |  |
| C405.8 - ELECTRICAL MOTORS (MANDATORY REQUIREMENTS):<br><input checked="" type="checkbox"/> ELECTRICAL MOTORS HAVE BEEN SPECIFIED TO MEET MINIMUM EFFICIENCY REQUIREMENTS PER C405.8, EXCEPT WHERE EXEMPT.<br><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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- PRELIMINARY -  
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 |
|---|-----------|------|
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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
DRAWN BY: MFL  
CHECKED BY: JK

DWG DESCRIPTION:  
ELECTRICAL COVER SHEET

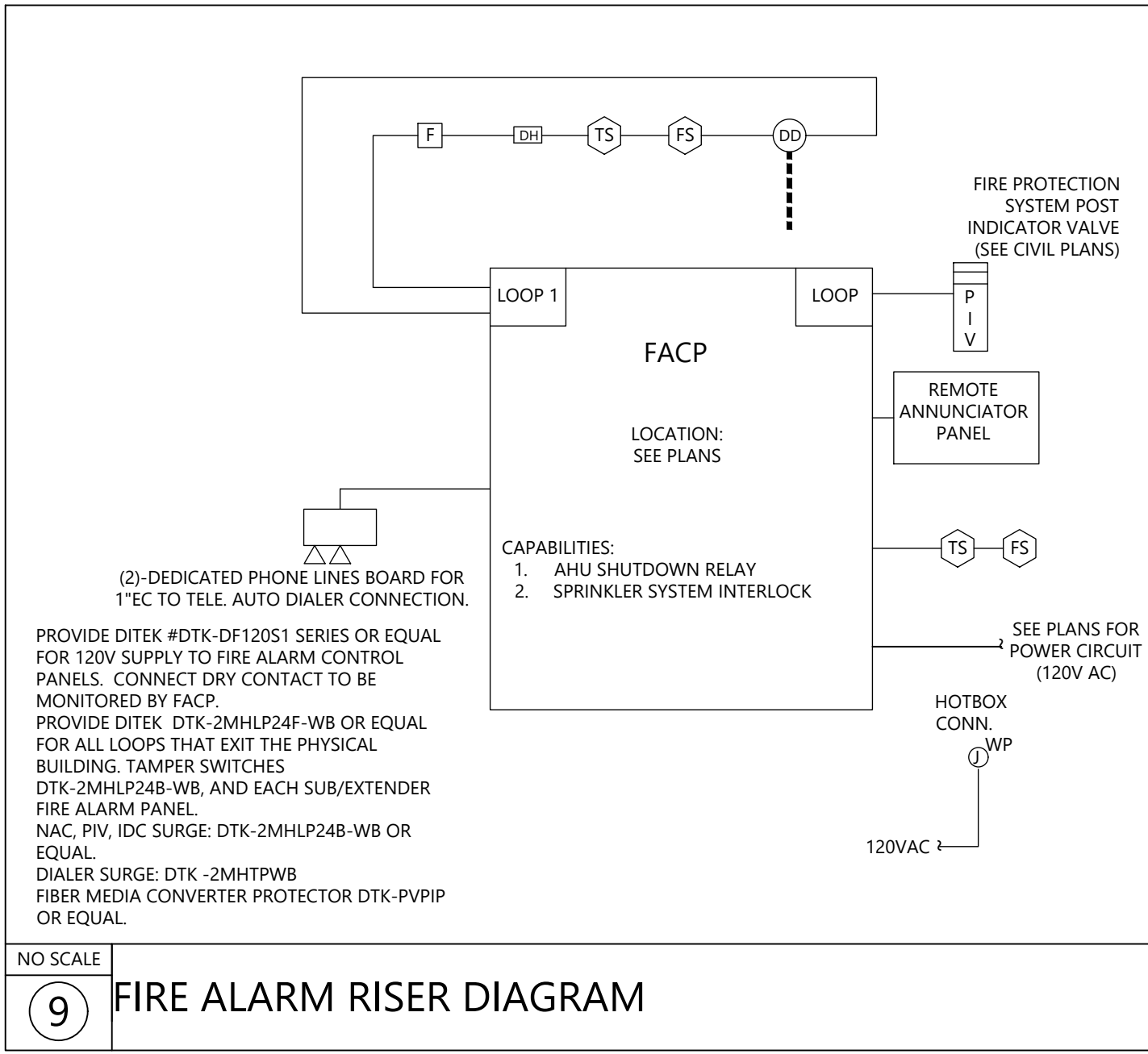
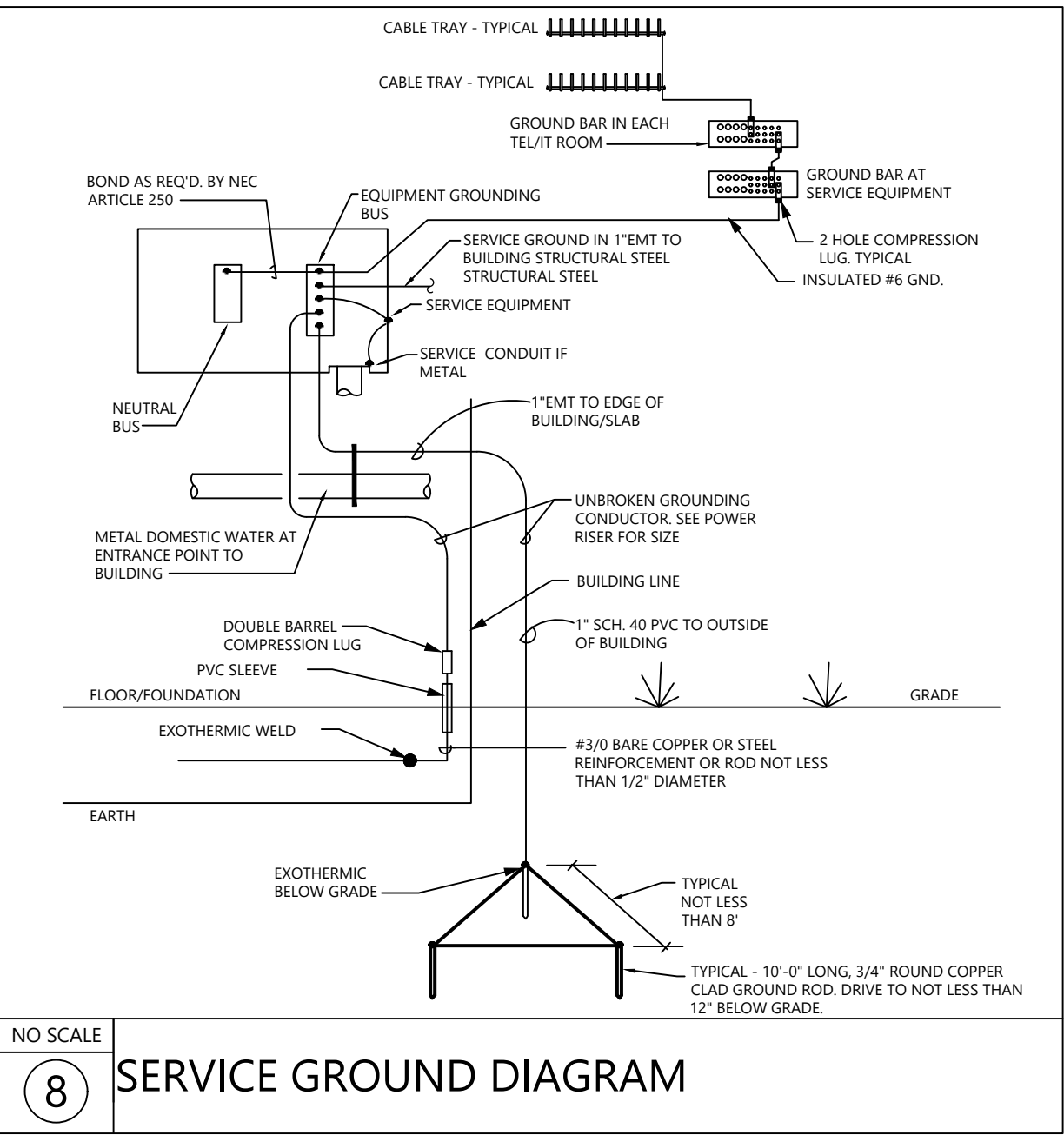
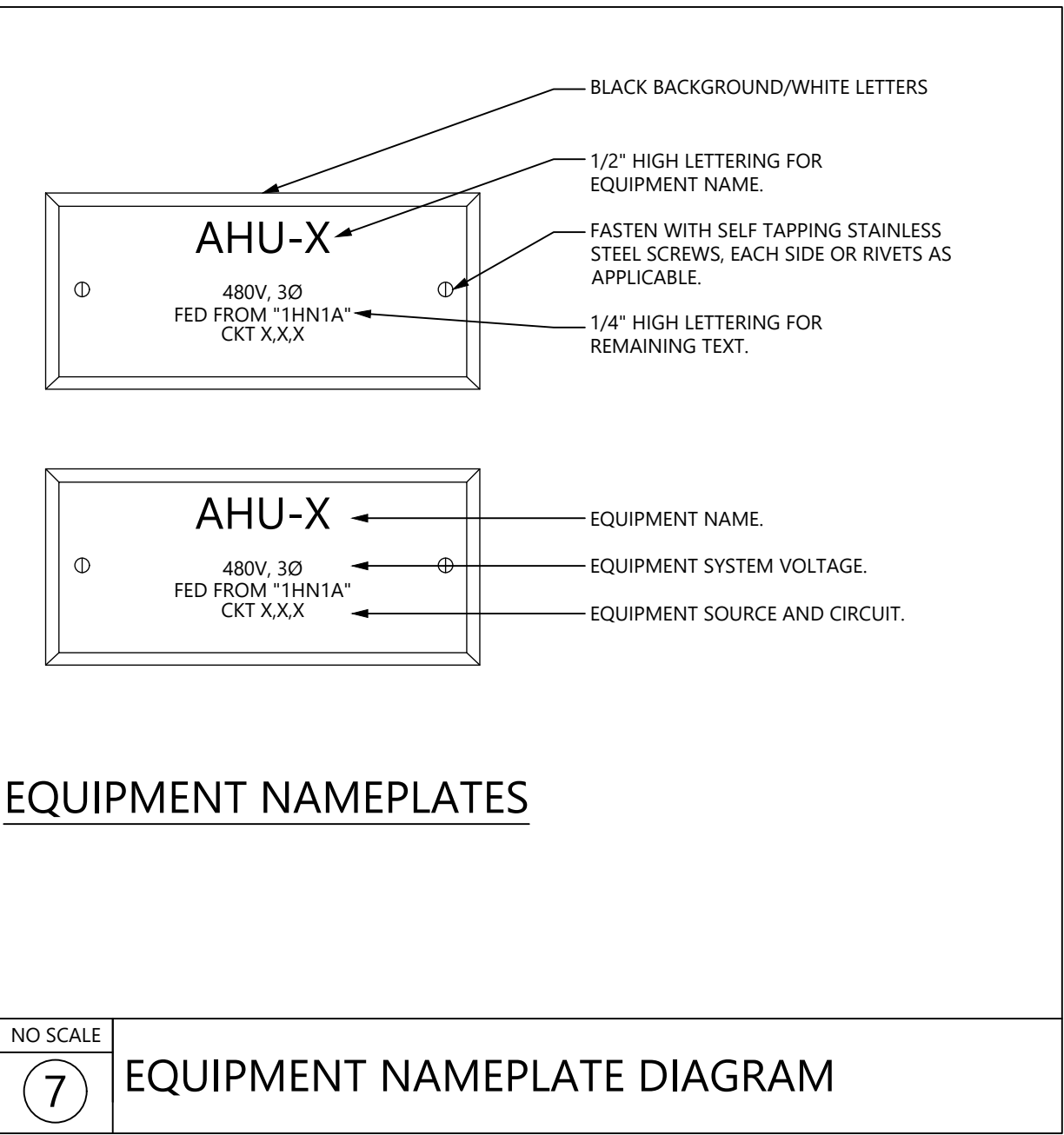
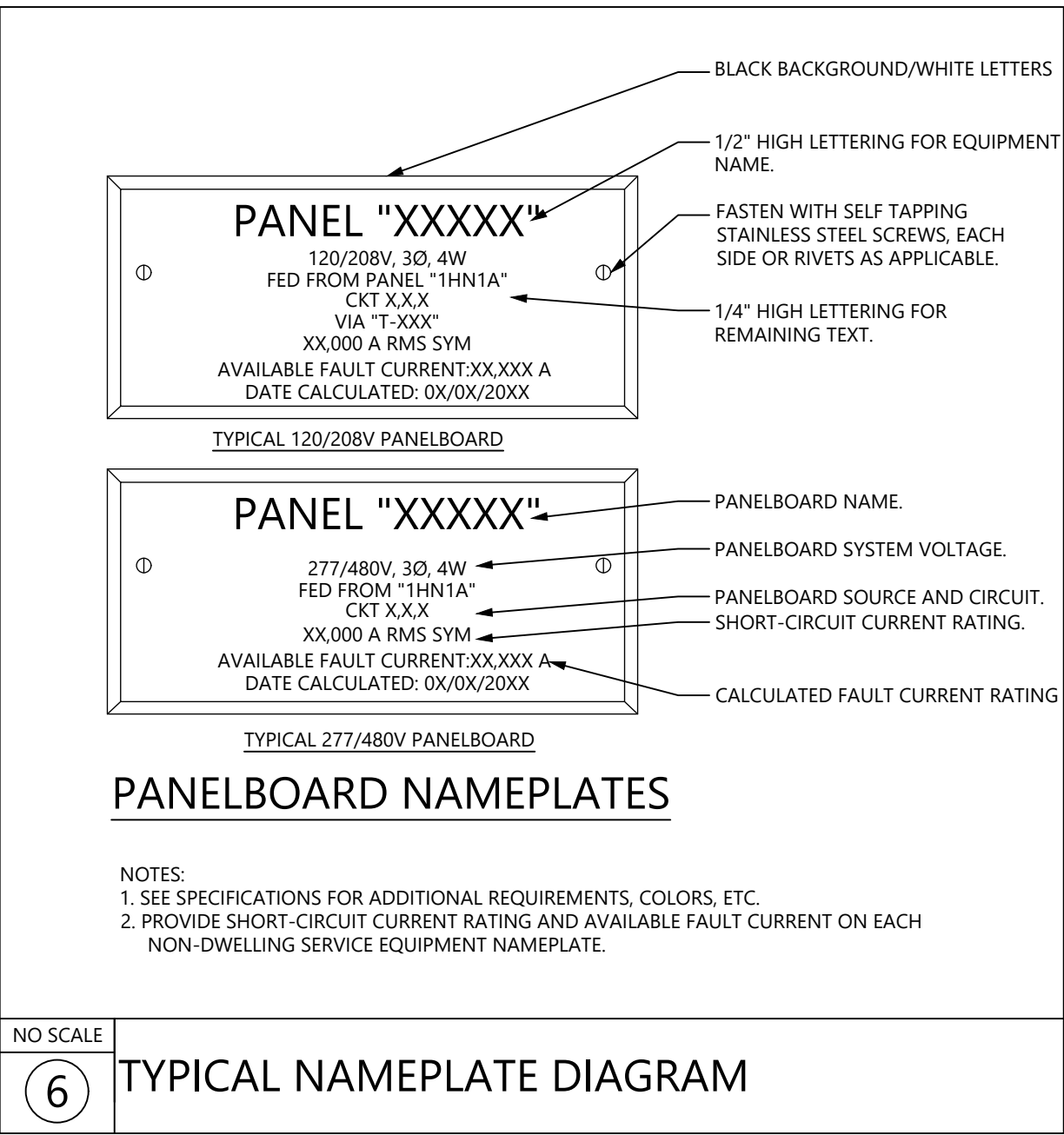
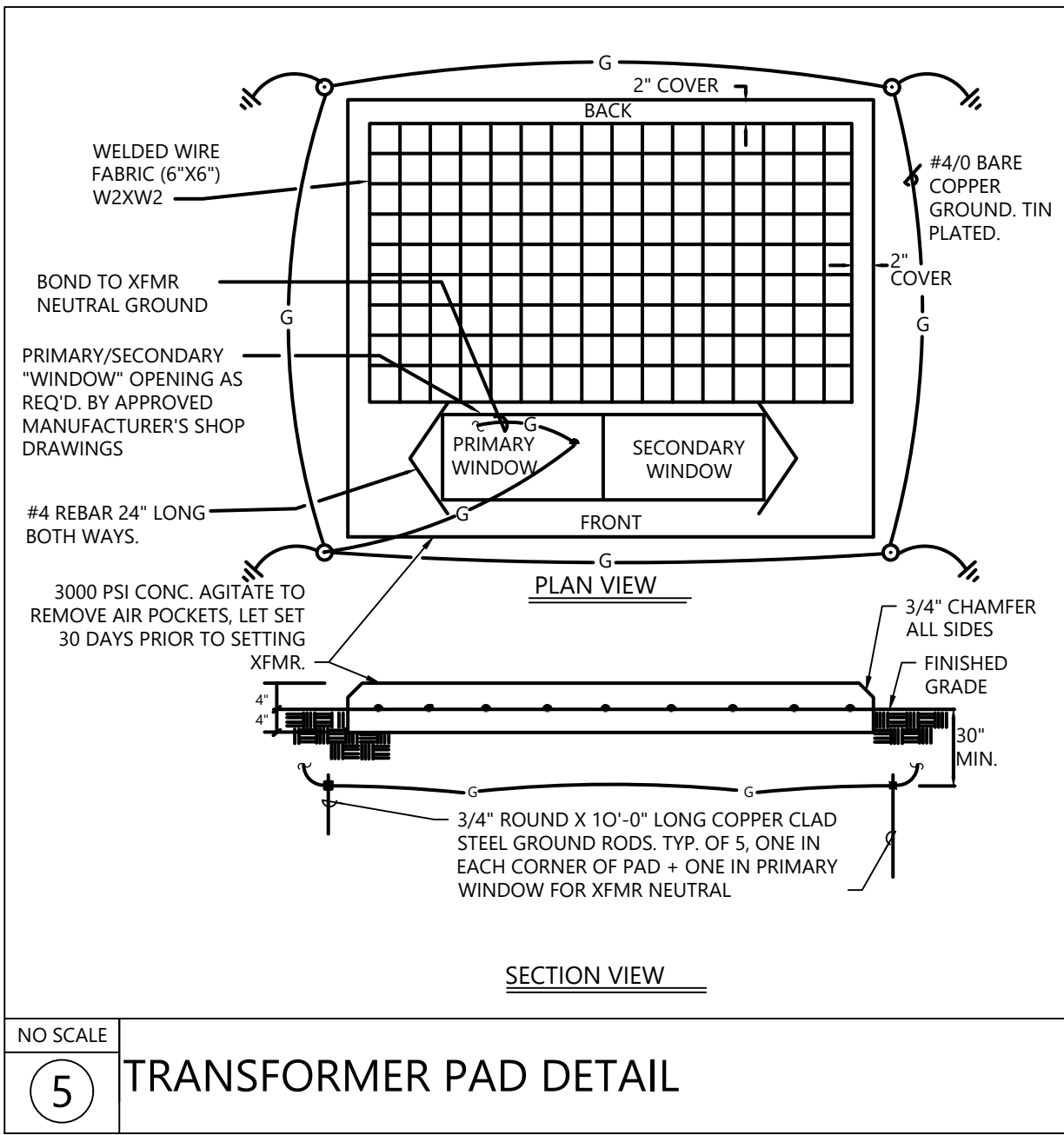
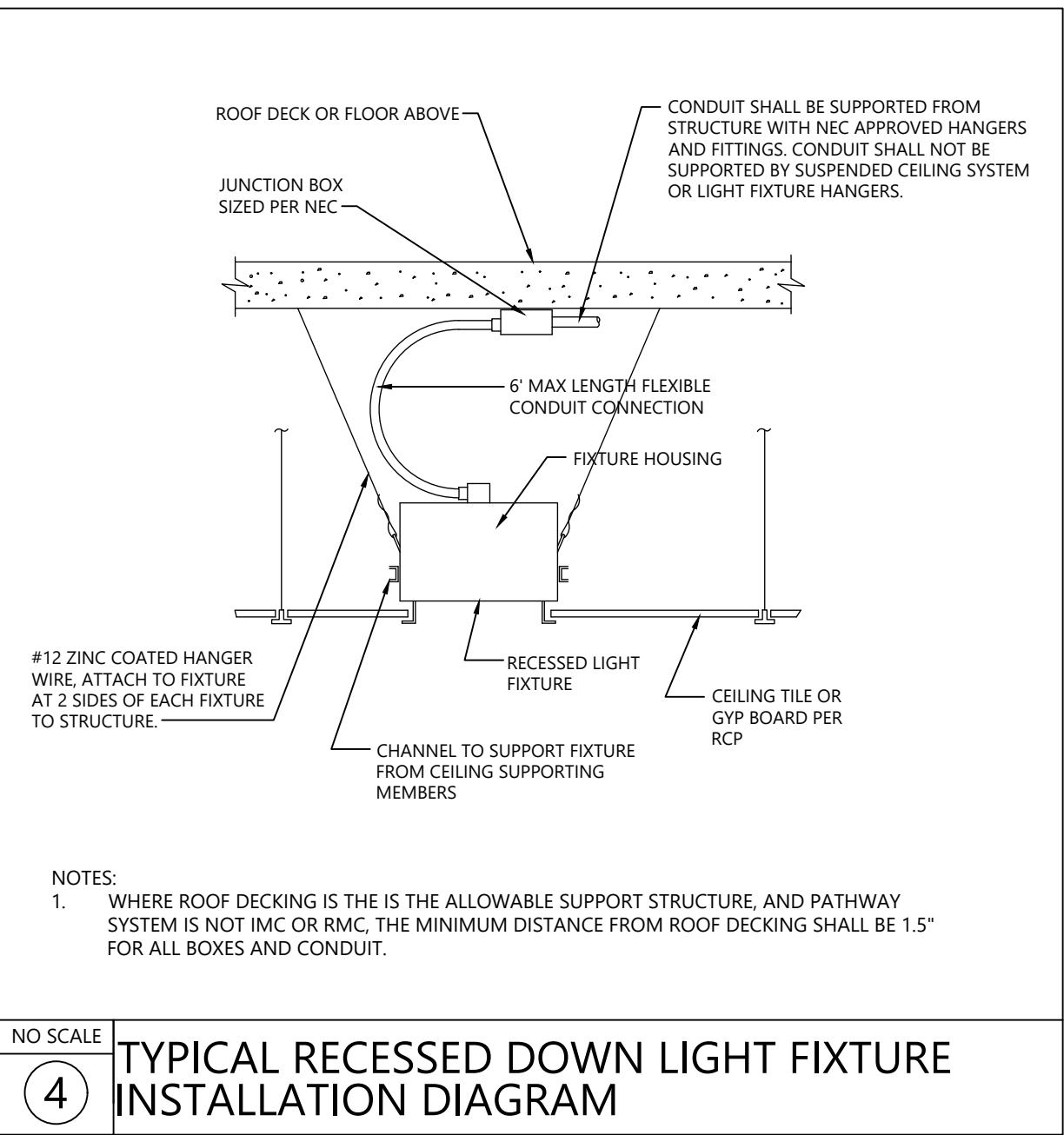
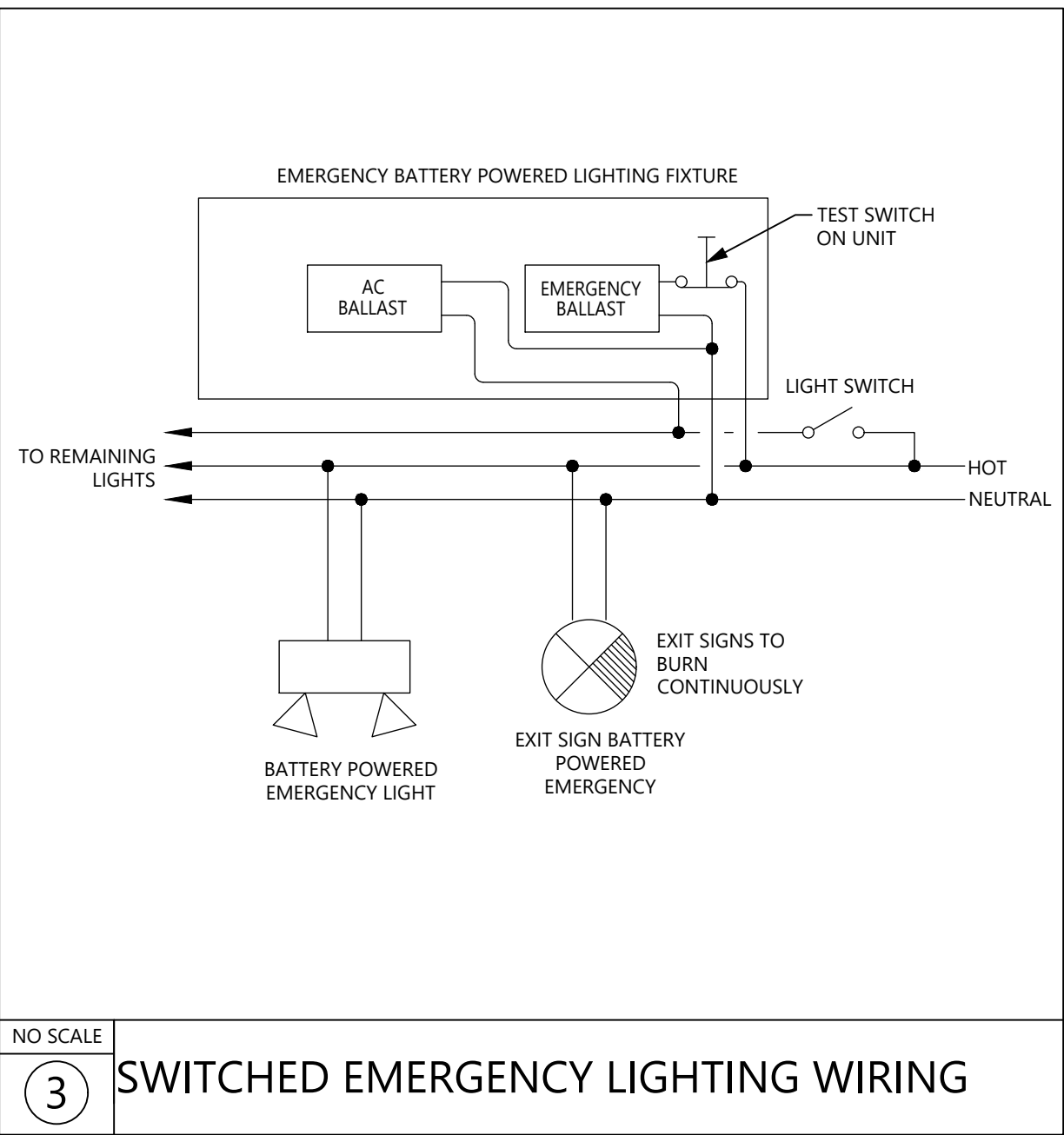
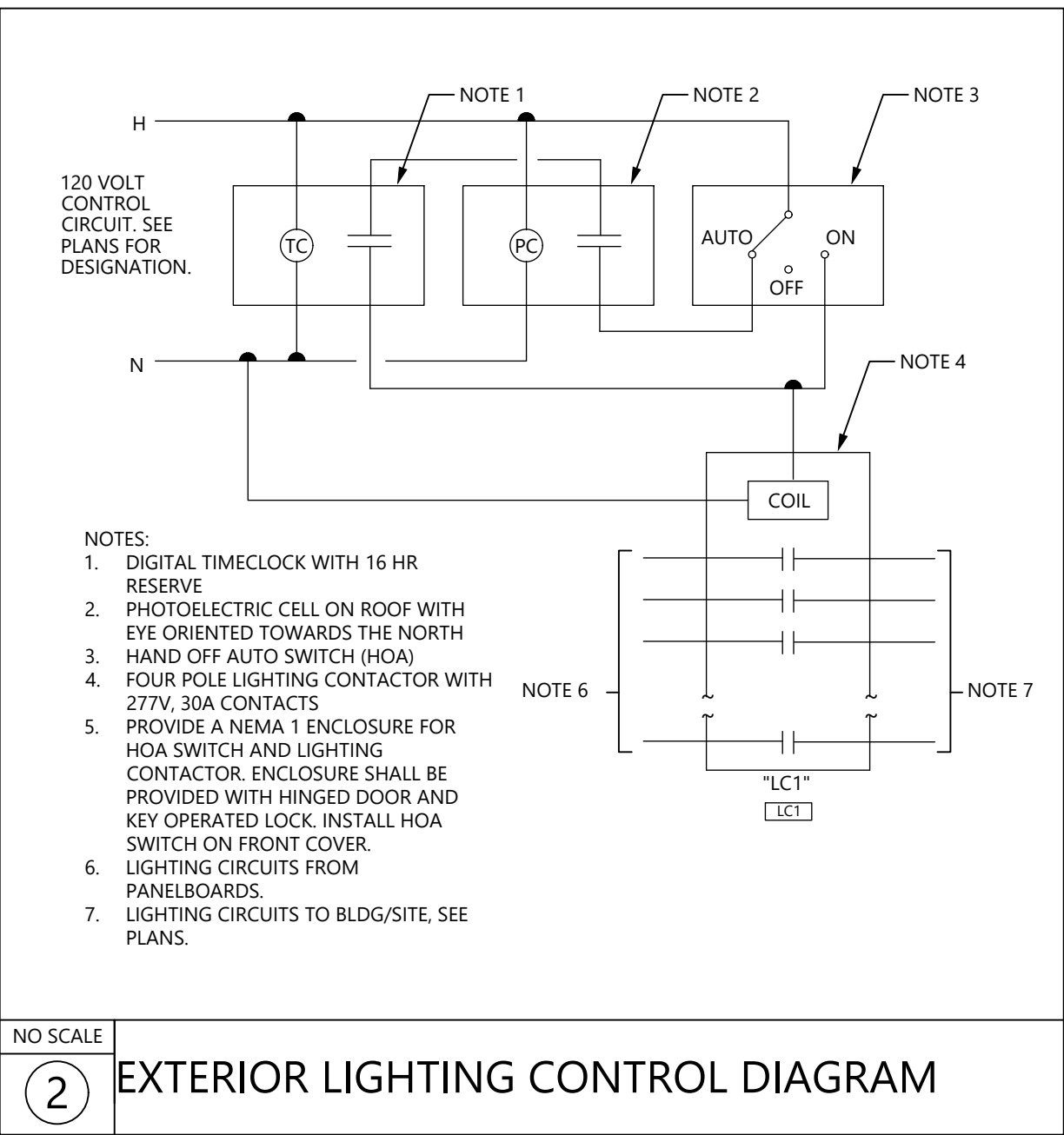
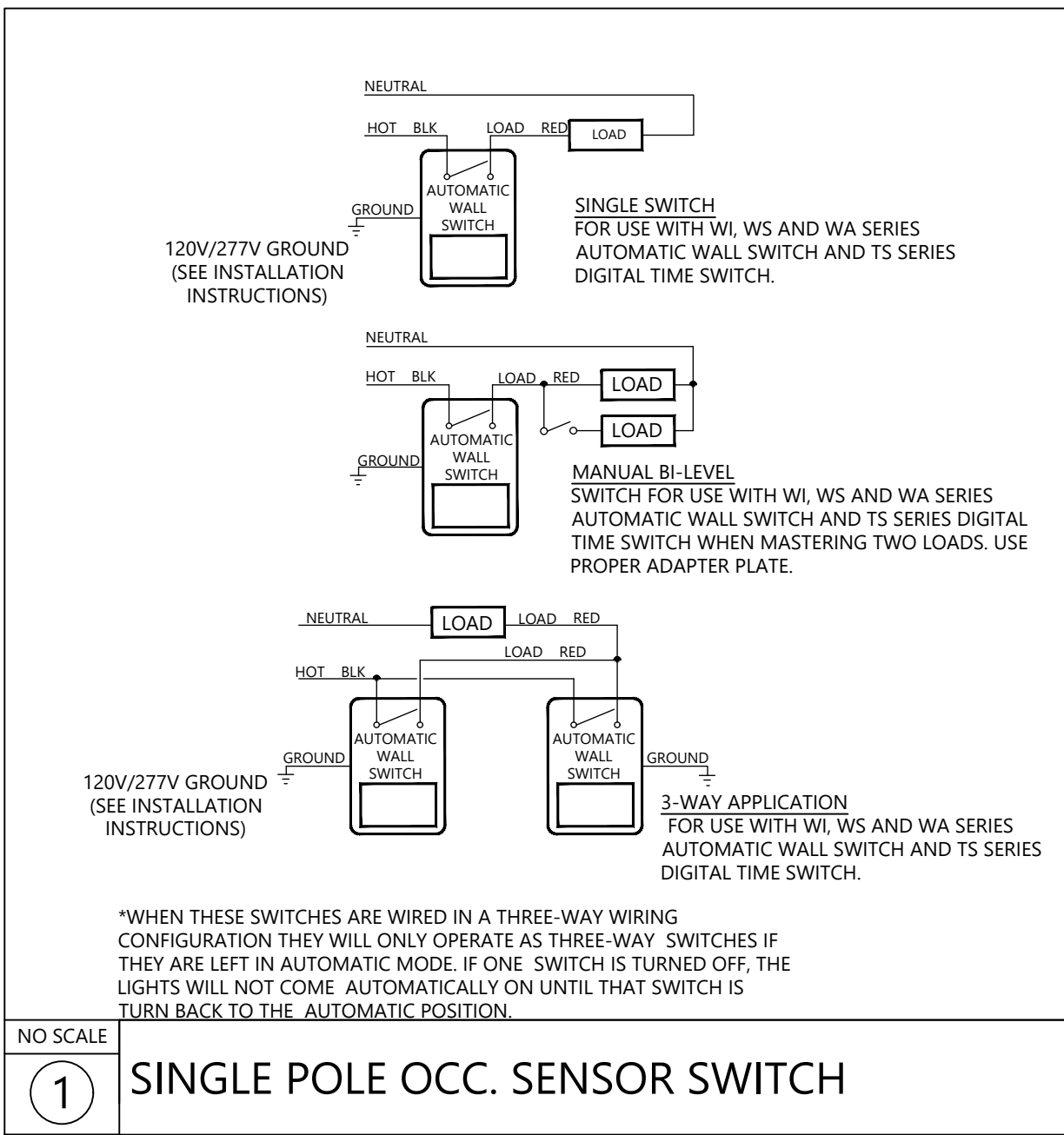
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WILDE # 24-125









1. FACP SHALL BE FULLY ANALOG ADDRESSABLE.  
2. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.  
3. ZONE PER NFPA 72, 2013 AND MANUFACTURER'S RECOMMENDATIONS WITH NO ONE ZONE EXCEEDING 15,000 S.F. PER FLOOR.  
4. COORDINATE QUANTITY AND LOCATIONS OF DEVICES WITH CONTRACT DRAWINGS.  
5. LOCATE FIRE ALARM PULL STATION WITHIN 5' OF THE EXIT DOOR.  
6. LOCATE SMOKE/HEAT DETECTOR WITHIN 5' OF THE FA EQUIPMENT (FACP, FATC).  
7. LOCATION OF CEILING MOUNTED SMOKE/HEAT DETECTOR SHALL BE FIELD COORDINATED PRIOR TO ROUGH IN. THE DETECTOR SHALL BE A MINIMUM OF 2' AWAY FROM LIGHT FIXTURE AND A MINIMUM OF 3' AWAY FROM AIR DISTRIBUTION DEVICES.  
8. ACTIVATION OF AN ALARM ZONE SHALL CAUSE ALL AIR HANDLING EQUIPMENT TO SHUT DOWN (ALL DAMPERS, AIR HANDLERS AND EXHAUST FANS MUST STOP).  
9. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS, QUANTITIES, REQUIREMENTS, ETC. OF ALL FLOW, PRESSURE, & TAMPER SWITCHES, RISER ALARM BELLS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO BID AND INSTALLATION.  
10. ALL VISUAL DEVICES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED. IT SHALL BE A THREE BEAT TEMPORAL PATTERN.  
11. FIRE ALARM CABLING SHALL BE PLENUM RATED.  
12. PROVIDE MULTI-TEMPORAL SOUNDING CAPABILITY AT ALL AUDIO DEVICES FOR EMERGENCY NOTIFICATION FOR NON VOICE SYSTEMS COMPONENTS.  
13. THE FIRE ALARM SYSTEM MANUFACTURER SHALL PROVIDE NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER EXTENDERS AS REQUIRED. E.G. SHALL PROVIDE IN BASE BID OF PROJECT FOR A MINIMUM OF (1) NAC AND ASSOCIATED CIRCUITING PER BUILDING.  
14. THE DUCT SMOKE DETECTORS SHALL COMPLY WITH IFC 907.12.  
15. THE CIRCUIT FEEDING THE FIRE ALARM PANEL IS DEDICATED FOR THE FIRE ALARM ONLY. BREAKER SHALL BE PROVIDED WITH A HANDLE LOCK-ON DEVICE, LABEL "FIRE ALARM CIRCUIT" AND SHALL BE RED.  
16. PROVIDE REMOTE LIGHT FOR DUCT SMOKE DETECTOR ON CEILING WHERE UNIT IS ABOVE CEILING.  
17. CONTRACTOR SHALL INCLUDE IN BID LABOR AND MATERIAL FOR UP TO (2) DUCT DETECTORS, (5) ANNUNCIATION DEVICES, (2) SMOKE DETECTORS AND (2) PULL STATIONS 100' FROM LOCAL PANEL (IN WALL) AS REQUIRED BY LOCAL AHJ/ENGINEER.  
18. CONTRACTOR RESPONSIBLE FOR SHOP DRAWINGS AS REQUIRED BY LOCAL AHJ.  
19. DUCT DETECTORS SHALL BE VERIFIED WITH THE MECHANICAL DRAWINGS FOR QUANTITY AND LOCATION. TOTAL QUANTITY MINIMUM SHALL BE BASED ON BOTH MECHANICAL SCHEDULES AND MECHANICAL PLAN LOCATIONS AND ELECTRICAL PLANS. WHEN DEVICE QUANTITIES (ELECTRICAL VS. MECHANICAL) ARE IN CONFLICT, PROVIDE THE GREATER QUANTITY OF DETECTORS.

|                                   |  | BUILDING SYSTEM OUTPUTS              |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             | CENTRAL COMM                          |
|-----------------------------------|--|--------------------------------------|----------------------------|---------------------------------------|-----------------------------|---------------------------------------|-----------------------------|---------------------------------------|-----------------------------|---------------------------------------|-----------------------------|---------------------------------------|
|                                   |  | ACTIVE COMMON ALARM SIGNAL INDICATOR | ACTIVE COMMON ALARM SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR |
|                                   |  | ACTIVE COMMON ALARM SIGNAL INDICATOR | ACTIVE COMMON ALARM SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR | ACTIVE COMMON SUPPLY SIGNAL | ACTIVE COMMON SUPPLY SIGNAL INDICATOR |
| MANUAL FIRE ALARM PULL BOXES      |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| BUILDING SMOKE DETECTOR           |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| DUCT SMOKE DETECTOR               |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| SPRINKLER WATER FLOW              |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| SPRINKLER TAMPER                  |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| NOTIFICATION DEVICE SHORT CIRCUIT |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| OPEN CIRCUIT                      |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| GROUND FAULT                      |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| FIRE ALARM A.C. POWER FAILURE     |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |
| FIRE ALARM SYSTEM LOW BATTERY     |  |                                      |                            |                                       |                             |                                       |                             |                                       |                             |                                       |                             |                                       |

**Wilde engineering**  
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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

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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
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DWG DESCRIPTION:  
ELECTRICAL DETAILS

SHEET #:  
**E-03**

WILDE # 24-125





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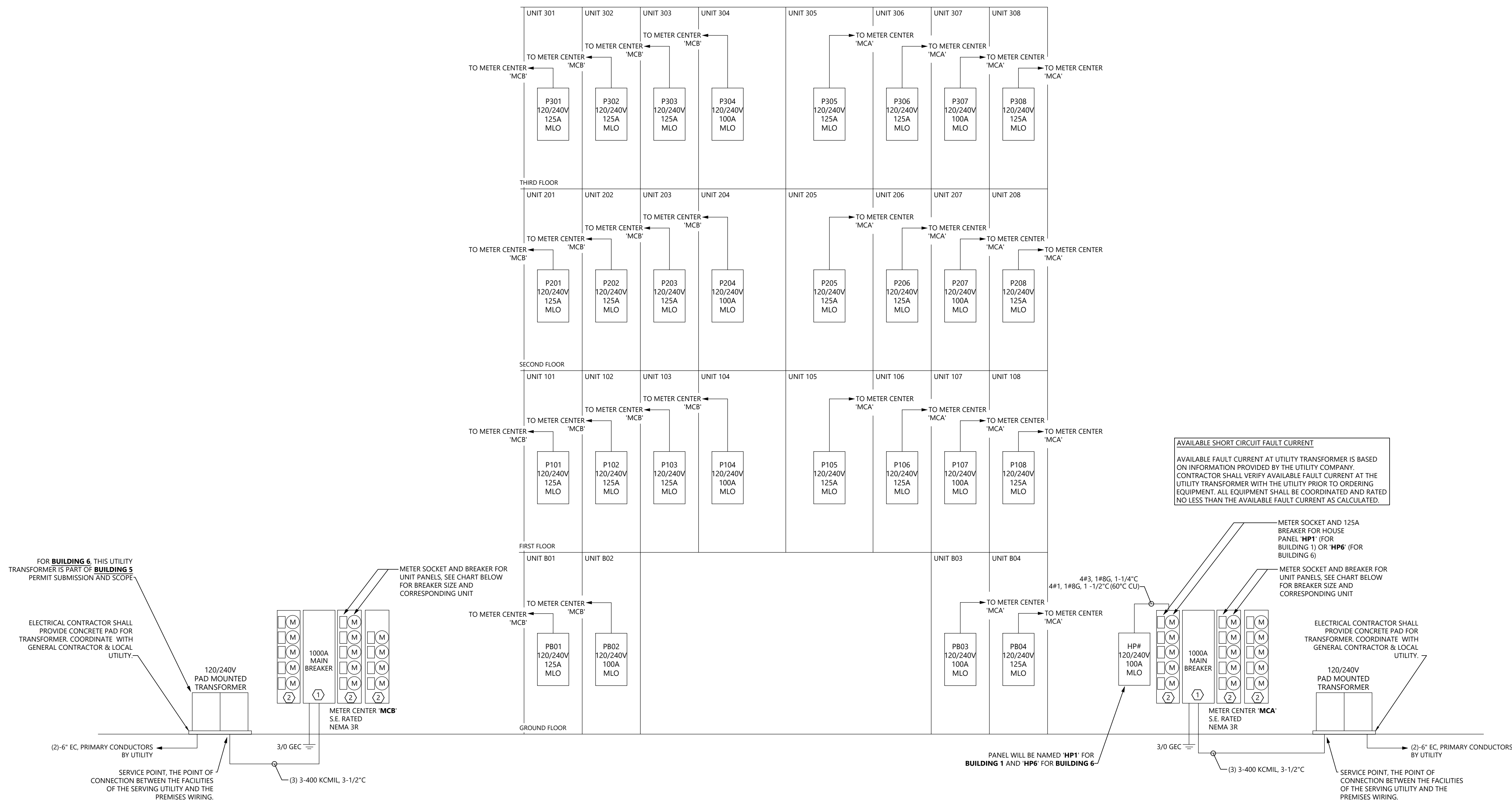
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DWG DESCRIPTION :

POWER RISER DIAGRAM -  
BUILDINGS 1 & 6

SHEET #:  
**E-04**



- POWER RISER GENERAL NOTES:
- A. ALL FEES ASSOCIATED WITH UTILITY COMPANY COORDINATION, INCLUDING PURCHASE/LEASE OF UTILITY TRANSFORMER, TRANSFORMER PRIMARY FEES, PAD, AND ALL ADMINISTRATIVE FEES SHALL BE INCLUDED AS PART OF THE E.C. CONTRACT.
  - B. RISER LAYOUT SHOWN IS DIAGRAMMATIC IN NATURE ONLY AND DOES NOT REPRESENT ACTUAL INSTALL LAYOUT. E.C. SHALL COORDINATE ALL EQUIPMENT LAYOUTS, CONDUIT/FEEDER ROUTINGS, ETC. LAYOUT SHOWN IN THIS RISER SHALL NOT REPRESENT THE ACTUAL INSTALL OF ANY EQUIPMENT SHOWN.
  - C. POWER RISER SHOWN TYPICAL FOR BUILDINGS 1 AND 6
  - D. TABLES SHOWN ON THIS SHEET ARE TYPICAL FOR BUILDINGS 1 AND 6
  - E. FEEDERS SHOWN BASED ON COPPER. ALUMINUM SHALL BE ACCEPTED BY ENGINEER WITH WRITTEN APPROVAL BY OWNER.

## KEYED NOTES:

1. SERVICE ENTRANCE, NEMA 3R LISTED CIRCUIT BREAKER WITH INTEGRAL SURGE PROTECTION, 120/240V 1-PHASE, AMPERAGE AS SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO LIMIT THE MAXIMUM AVAILABLE FAULT DUTY FOR ALL 200A AND 400A SECT CONTAINED SERVICE TO A MAGNITUDE NOT EXCEEDING 22,000 AMPS (22 KA) SYMMETRICAL VERIFICATION OF THE APPROPRIATE TIME CURRENT CHARACTERISTIC (TCC) CURVE SETTINGS SHALL BE PROVIDED.
2. NEMA 3R METER CENTER, 252A MAXIMUM CB, 120/240V 1-PHASE. COORDINATE WITH UTILITY PRIOR TO ORDERING NUMBER OF METER SOCKETS AS SHOWN. COORDINATE SIZE OF METER UNITS AND BREAKER WITH PROPER LIVES FOR CONNECTIONS.

1 POWER RISER DIAGRAM - BUILDINGS 1 & 6 (28-UNIT BLDG)

NOT TO SCALE

| DEMAND LOADS: METER CENTER 'MCA'    |                    |    |                     |              |
|-------------------------------------|--------------------|----|---------------------|--------------|
|                                     | NUMBER<br>OF UNITS |    | UNIT KVA            | TOTAL<br>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      |

| DEMAND LOADS: METER CENTER 'MCB'    |                    |    |          |              |
|-------------------------------------|--------------------|----|----------|--------------|
|                                     | NUMBER<br>OF UNITS |    | UNIT KVA | TOTAL<br>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    |
|                                     |                    |    |          |              |
|                                     |                    |    | TOTAL:   | 225.6 KVA    |
| VOLTAGE OF SERVICE:                 |                    |    |          | 240 V        |
| SERVICE PHASE:                      |                    |    |          | 1 PH         |
| TOTAL AMPACITY:                     |                    |    |          | 939.9 A      |

| RESIDENTIAL FEEDER SIZING TABLE, COPPER CONDUCTORS (240V, 1-PHASE, 3-WIRE)   |                    |                          |                          |                          |                          |                          |                          |
|--|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| SERVICE RATING<br>(AMPS)   | MAXIMUM DISTANCE   |                          |                          |                          |                          |                          |                          |
|  | 0 - 150'           | 151' - 175'              | 176' - 200'              | 201' - 225'              | 226' - 250'              | 251' - 275'              | 276' - 300'              |
| 100  | 3#3, 1#6G,<br>1" C | 3#2, 1#6G,<br>1-1/4" C   | 3#1, 1#4G,<br>1-1/4" C   |                          | 3#1/0, 1#4G,<br>1-1/2" C |                          | 3#2/0, 1#3G,<br>1-1/2" C |
| 110  |                    | 3#2, 1#6G,<br>1-1/4" C   | 3#1, 1#4G,<br>1-1/4" C   | 3#1/0, 1#3G,<br>1-1/2" C |                          |                          | 3#2/0, 1#2G,<br>1-1/2" C |
| 125  |                    | 3#1, 1#6G,<br>1-1/4" C   | 3#1/0, 1#4G,<br>1-1/2" C |                          | 3#2/0, 1#4G,<br>1-1/2" C |                          | 3#3/0, 1#3G,<br>2" C     |
| 150  |                    | 3#1/0, 1#6G,<br>1-1/2" C | 3#2/0, 1#4G,<br>1-1/2" C |                          | 3#3/0, 1#4G,<br>2" C     |                          | 3#4/0, 1#3G,<br>2" C     |
| 175  |                    | 3#2/0, 1#6G,<br>1-1/2" C | 3#3/0, 1#4G,<br>2" C     |                          | 3#4/0, 1#4G,<br>2" C     | 3-250, 1#3G,<br>2-1/2" C | 3-300, 1#2G,<br>2-1/2" C |
| 200  |                    | 3#3/0, 1#6G,<br>2" C     |                          | 3#4/0, 1#4G,<br>2" C     | 3-250, 1#4G,<br>2" C     | 3-300, 1#3G,<br>2-1/2" C | 3-350, 1#2G,<br>2-1/2" C |
| 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 "THIN", "THWN", "THWN-2" TYPE CONDUCTORS IN EMT CONDUIT.   |                    |                          |                          |                          |                          |                          |                          |
| 4. CONDUCTOR SIZES BASED ON COPPER CONDUCTORS.   |                    |                          |                          |                          |                          |                          |                          |
| 5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL LOAD REQUIREMENTS FOR WIRE SIZE, COUNTS, AND TYPE.   |                    |                          |                          |                          |                          |                          |                          |



| NEW PANEL: HP1 & HP6 (NOTE #9)   |      |      |                              |                   |      |      |                      |       |                           |      |      |          |
|--|------|------|------------------------------|-------------------|------|------|----------------------|-------|---------------------------|------|------|----------|
| VOLTAGE: 120/ 240  |      |      |                              | MOUNTING: SURFACE |      |      |                      |       |                           |      |      |          |
| PHASE / WIRE: 1φ/ 3W   |      |      |                              |                   |      |      |                      |       |                           |      |      |          |
| AMPS: 100  |      |      |                              | MAIN: LUGS ONLY   |      |      |                      |       |                           |      |      |          |
| 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    | ECUH-1                    | 20   | 10   | 1.00     |
| 1.00   | 8    | 20   | DOMESTIC BACKFLOW (NOTE #10) | 13                | ●    |      |                      | 14    |                           | 10   | 1.00 |          |
| 1.00   | 8    | 20   | FIRE BACKFLOW (NOTE #10)     | 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    |                           |      |      |          |
| 7.9  |      |      |                              | SUB TOTALS        |      |      |                      | 5.1   |                           |      |      |          |
| LOAD (kVA)   |      |      |                              | Conn.             | D.F. | Dmd. | TOTAL LOAD PER PHASE |       |                           |      |      |          |
| LIGHTS   |      |      |                              | 0.5               | 1.25 | 0.6  | CONNECTED            |       |                           |      |      |          |
| HEATING  |      |      |                              | 4.0               | 1.00 | 4.0  | L1=                  | 6.7   | kVA                       | 55.5 | AMPS |          |
| COOLING  |      |      |                              | 0.0               | 1.00 | 0.0  | L2=                  | 6.3   | kVA                       | 52.5 | AMPS |          |
| VENTILATION  |      |      |                              | 0.0               | 1.00 | 0.0  |                      |       |                           |      |      |          |
| MOTORS   |      |      |                              | 0.0               | 1.00 | 0.0  | DEMAND               |       |                           |      |      |          |
| KITCHEN  |      |      |                              | 0.0               | 0.65 | 0.0  | L1=                  | 6.8   | kVA                       | 56.5 | AMPS |          |
| REC. (1st 10kVA)   |      |      |                              | 4.9               | 1.00 | 4.9  | L2=                  | 6.3   | kVA                       | 52.5 | AMPS |          |
| REC. (>10kVA)  |      |      |                              | 0.0               | 0.50 | 0.0  |                      |       |                           |      |      |          |
| WATER HEATER   |      |      |                              | 0.0               | 1.00 | 0.0  | DEMAND AT 125%       |       |                           |      |      |          |
| MISC.  |      |      |                              | 3.6               | 1.00 | 3.6  | L1=                  | 8.5   | kVA                       | 70.7 | AMPS |          |
| SPARE  |      |      |                              | 0.0               | 1.00 | 0.0  | L2=                  | 7.9   | kVA                       | 65.6 | 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 1 AND 6                                 |      |      |                              |                   |      |      |                      |       |                           |      |      |          |
| 10. CIRCUIT ONLY CONNECTED TO PANEL 'HP1'. BREAKER SHALL BE SPARE FOR PANEL 'HP6'. |      |      |                              |                   |      |      |                      |       |                           |      |      |          |



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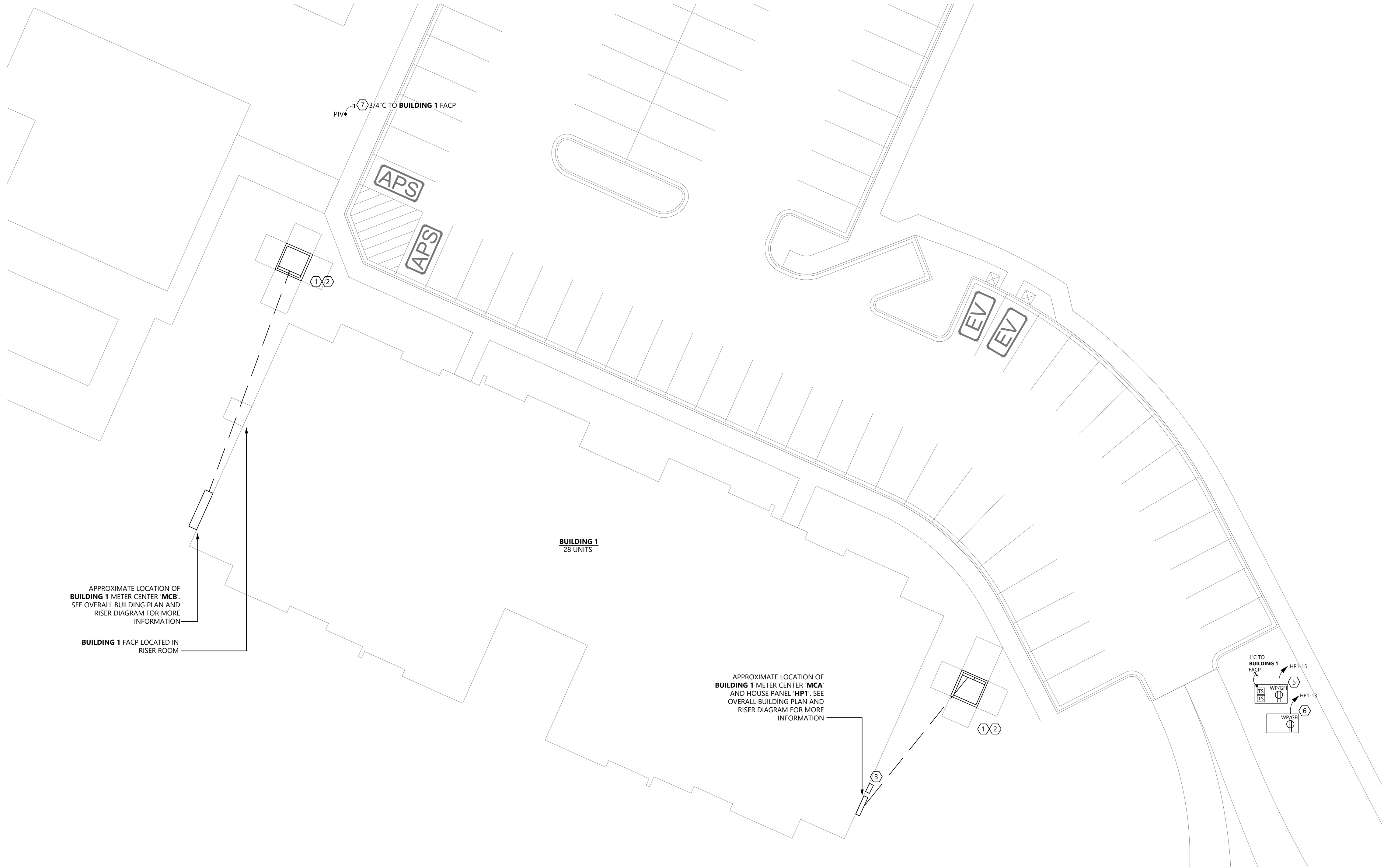
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PANEL SCHEDULE -  
HOUSE PANEL

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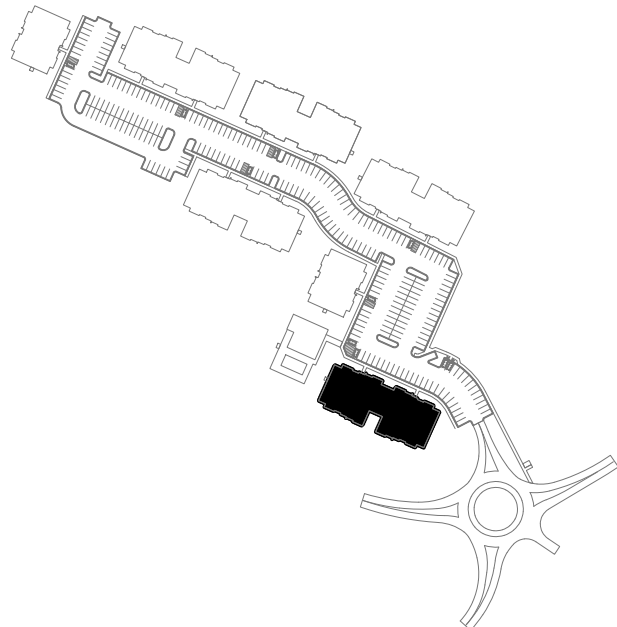
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1 ELECTRICAL SITE PLAN - BUILDING 1  
1/16"=1'-0"

KEY PLAN  
(NOT TO SCALE)



- SITE PLAN NOTES:
- UTILITY TRANSFORMER, COORDINATE EXACT LOCATION WITH LOCAL UTILITY AND CIVIL PLAN.
  - PROVIDE (2)-6" CONDUIT FROM PAD MOUNTED TRANSFORMER TO DESIGNATED POINT AT EDGE OF PROPERTY FOR LOCAL POWER UTILITY USE. CONDUIT LOCATION, SIZE, AND BENDING RADIUS SHALL BE COORDINATED WITH UTILITY BEFORE INSTALLATION. PULLBOXES AS REQUIRED BY CODE/LOCAL UTILITY. E.C. TO PROVIDE UP TO 150' OF ADDITIONAL (2)-6" CONDUIT AND COMPLETE INSTALLATION BASED ON UTILITY COORDINATION.
  - 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.
  - 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".
  - FIRE SERVICE BACKFLOW, PROVIDE 1" CONDUIT TO FACP INDICATED ON PLANS FOR TAMPER SWITCHES. COORDINATE EXACT QUANTITY AND LOCATION WITH CIVIL PLANS.
  - DOMESTIC SERVICE BACKFLOW, COORDINATE EXACT LOCATION WITH CIVIL PLANS.
  - POST INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
  - UTILITY TRANSFORMER PART OF **BUILDING 3** PERMIT SUBMISSION AND SCOPE.



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DWG DESCRIPTION:  
ELECTRICAL SITE PLAN -  
BUILDING 1

SHEET #:  
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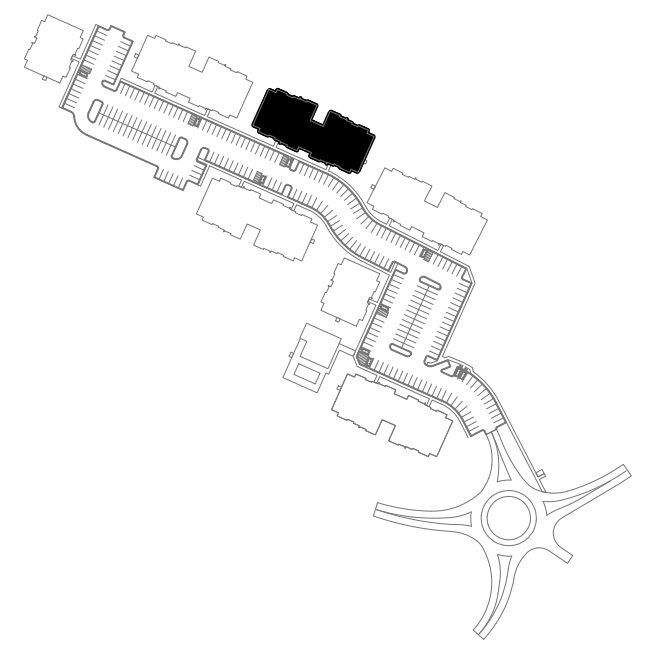
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1 ELECTRICAL SITE PLAN - BUILDING 6  
1/16"=1'-0"

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. FIRE SERVICE BACKFLOW, PROVIDE 1" CONDUIT TO FACP INDICATED ON PLANS FOR TAMPER SWITCHES. COORDINATE EXACT QUANTITY AND LOCATION WITH CIVIL PLANS.
  6. DOMESTIC SERVICE BACKFLOW, COORDINATE EXACT LOCATION WITH CIVIL PLANS.
  7. POST INDICATOR VALVE, 3/4" TO FACP INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH CIVIL PLANS.
  8. UTILITY TRANSFORMER PART OF **BUILDING 5** PERMIT SUBMISSION AND SCOPE.



- 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

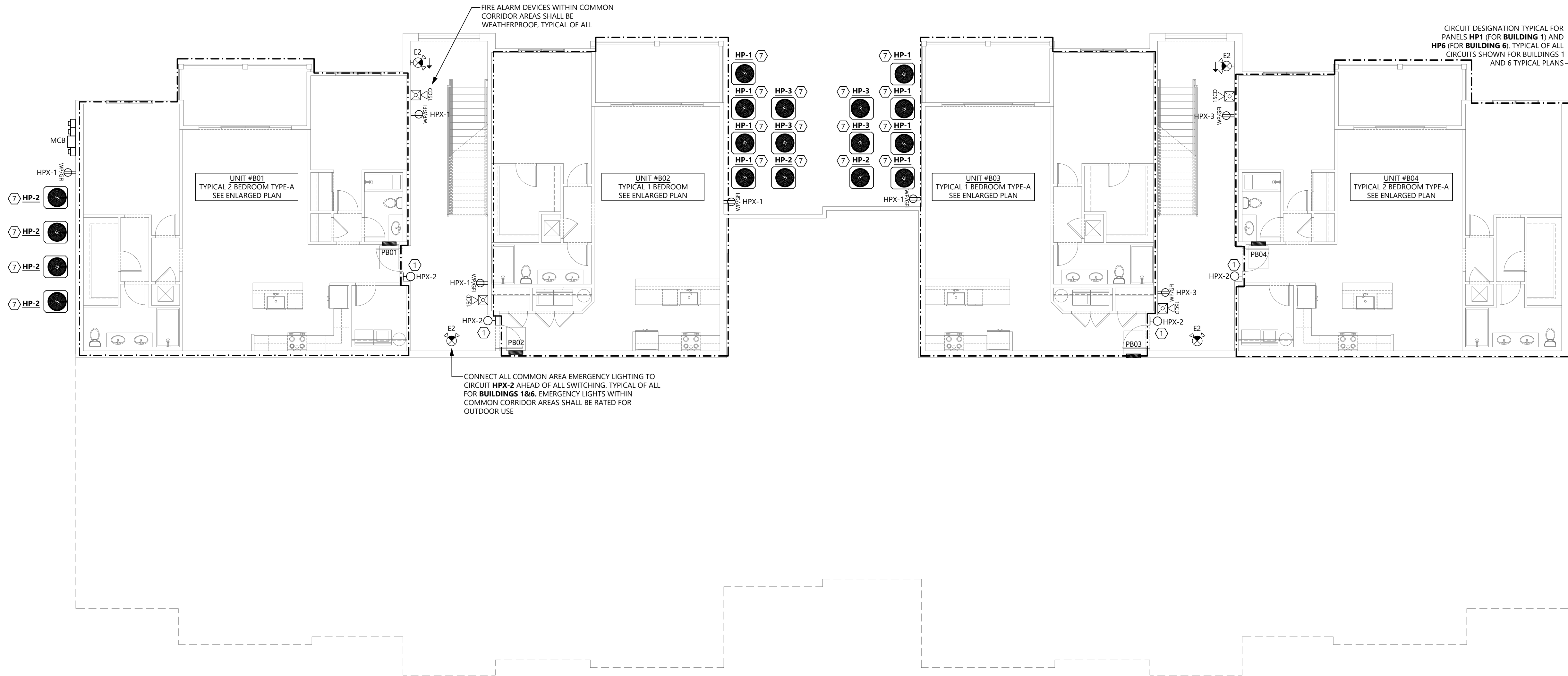
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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
DRAWN BY: MFL  
CHECKED BY: JK

DWG DESCRIPTION:  
ELECTRICAL SITE PLAN -  
BUILDING 6

SHEET #:  
E-10.6





- 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 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.

1 OVERALL PLAN - BUILDINGS 1 & 6 (28-UNIT BLDG) - BASEMENT  
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

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

DWG DESCRIPTION:  
OVERALL ELECTRICAL  
PLAN - BASEMENT -  
BUILDINGS 1 & 6

SHEET #:  
E-21

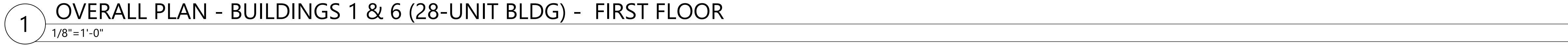


**GENERAL NOTES:**

- 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 CEILING. NO EXPOSED CONDUIT PERMITTED.
- C. MC CABLE SHALL NOT BE EXPOSED. CIRCUITS NOT CONCEALED BY CEILING SHALL BE RUN IN CONDUIT. CIRCUITS INSTALLED BEHIND HARD CEILING 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 SCENE, CULTURE 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 FACE LOCATION WITH FIRE RISER, IRRIGATION CONTROLS, ETC. WITHIN UTILITY ROOM.
3. POWER FOR IRRIGATION CONTROLS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. ALL QUANTITIES, LOCATIONS, ETC. OF TAMPER AND FLOW SWITCHES SHALL BE COORDINATED WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
5. FIRE ALARM BELL. COORDINATED EXACT QUANTITY, LOCATION, REQUIREMENTS, ETC. WITH FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK AND ORDERING OF EQUIPMENT, DEVICES, ETC.
6. MAIN TELECOM CABINET FOR BUILDING. PROVIDE 36"x36" NEMA 3R CABINET AND (2)-(4)" C/R FROM CABINET TO MAIN PROPERTY LINE AND CONNECTION TO UTILITY. PROVIDE WP/GF 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 PLANS AND PANEL SCHEDULE FOR CIRCUIT DESIGNATION, DISCONNECT SIZE, ETC.



**Wilde** —  
engineering  
MECHANICAL, ELECTRICAL & PUMPING

15822 Kelly Park Cir  
Huntersville, NC  
(704) 459-7038  
NC Firm License No. P-2182

- PRELIMINARY -  
NOT FOR CONSTRUCTION

SIGNATURE:

CLIENT:  
The Orchards at Naples Road, LLC  
1 N Main Street  
Andersonville, NC 28792  
Chris Graef, President



PROJECT:

The Orchards at Naples Road  
Apartment Complex  
Hendersonville, North Carolina

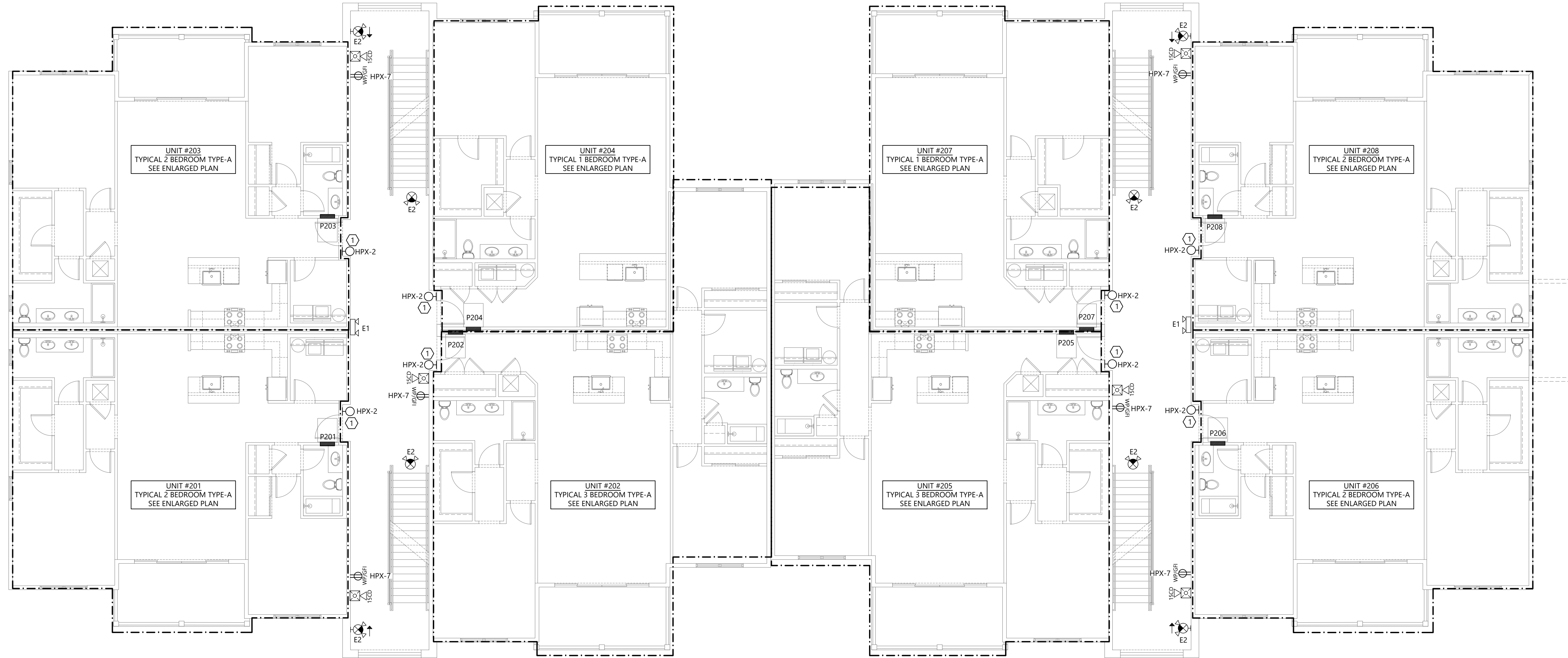
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DWG INFO :  
 ISSUE DATE: 4/11/25  
 PROJECT #: 22105  
 DRAWN BY: MFL  
 CHECKED BY: JK

DWG DESCRIPTION :  
OVERALL ELECTRICAL  
PLAN - FIRST FLOOR -  
BUILDINGS 1 & 6

SHEET #:  
**E-22**





1 OVERALL PLAN - BUILDINGS 1 & 6 (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.
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  - 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.
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- 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

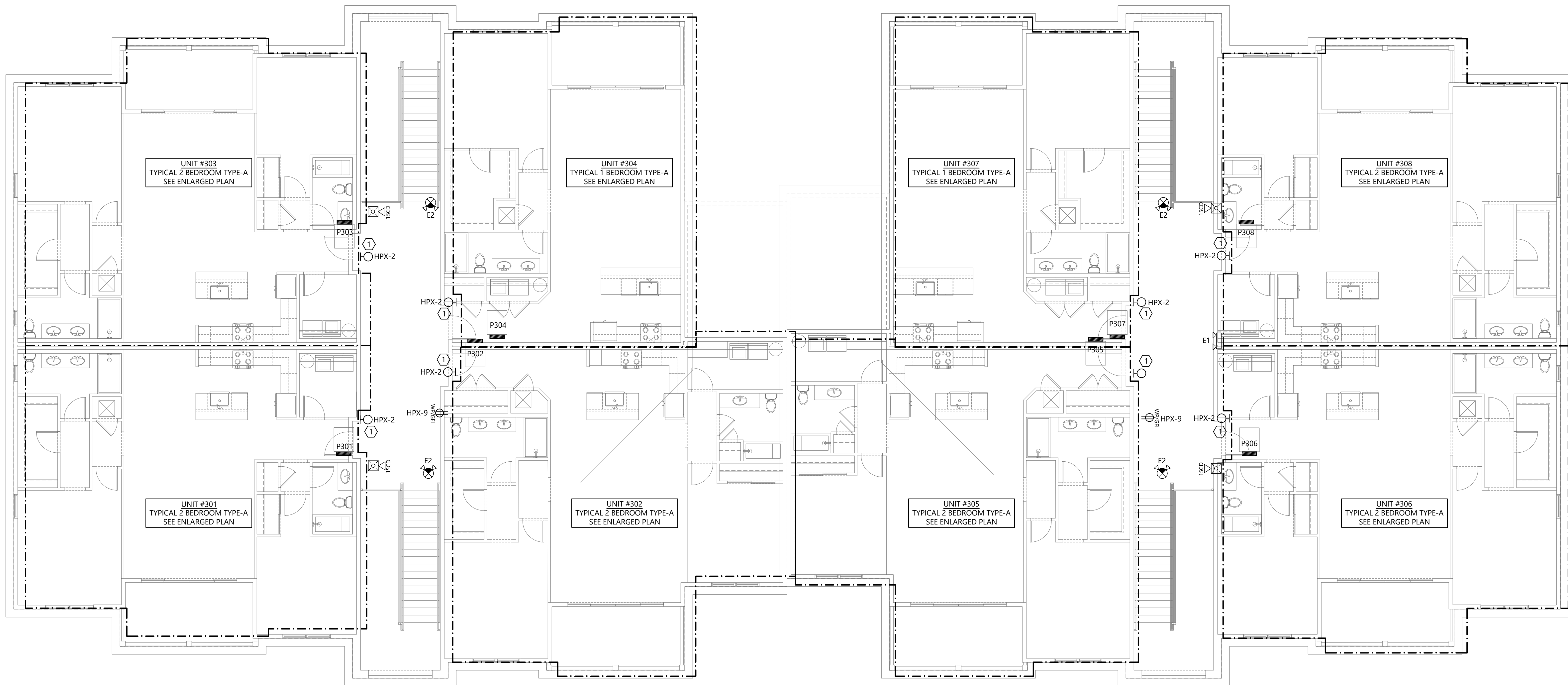
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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
DRAWN BY: MFL  
CHECKED BY: JK

DWG DESCRIPTION:  
OVERALL ELECTRICAL  
PLAN - SECOND FLOOR -  
BUILDINGS 1 & 6

SHEET #:  
E-23





1 OVERALL PLAN - BUILDINGS 1 & 6 (28-UNIT BLDG) - THIRD 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.
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  - 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.
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  - 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.

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

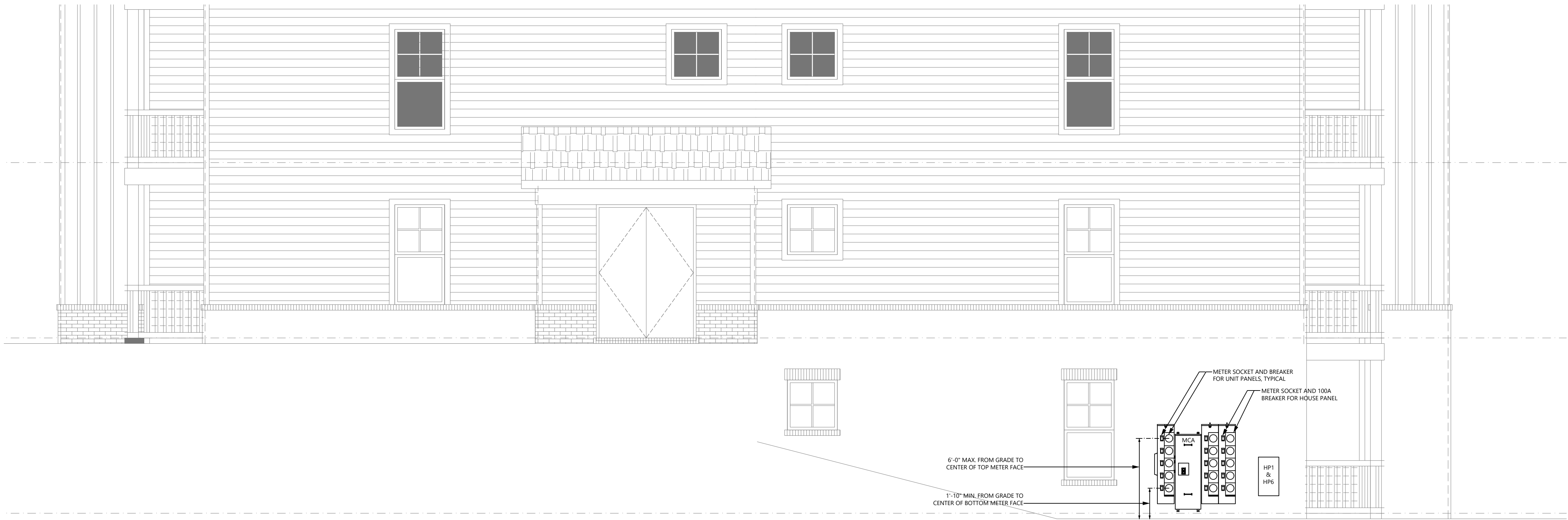
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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
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CHECKED BY: JK

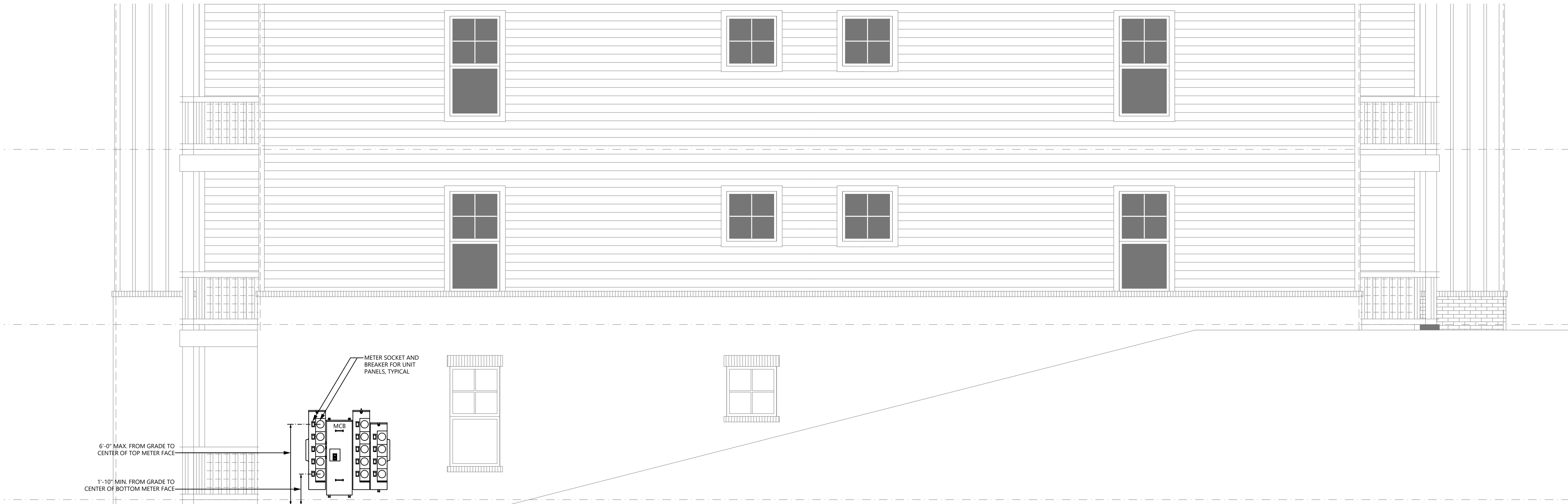
DWG DESCRIPTION:  
OVERALL ELECTRICAL  
PLAN - THIRD FLOOR -  
BUILDINGS 1 & 6

SHEET #:  
**E-24**





1 PARTIAL PLAN EAST ELEVATION - BUILDINGS 1 & 6 (28-UNIT BUILDINGS)  
1/4" = 1'-0"



2 PARTIAL PLAN WEST ELEVATION - BUILDINGS 1 & 6 (28-UNIT BUILDINGS)  
1/4" = 1'-0"

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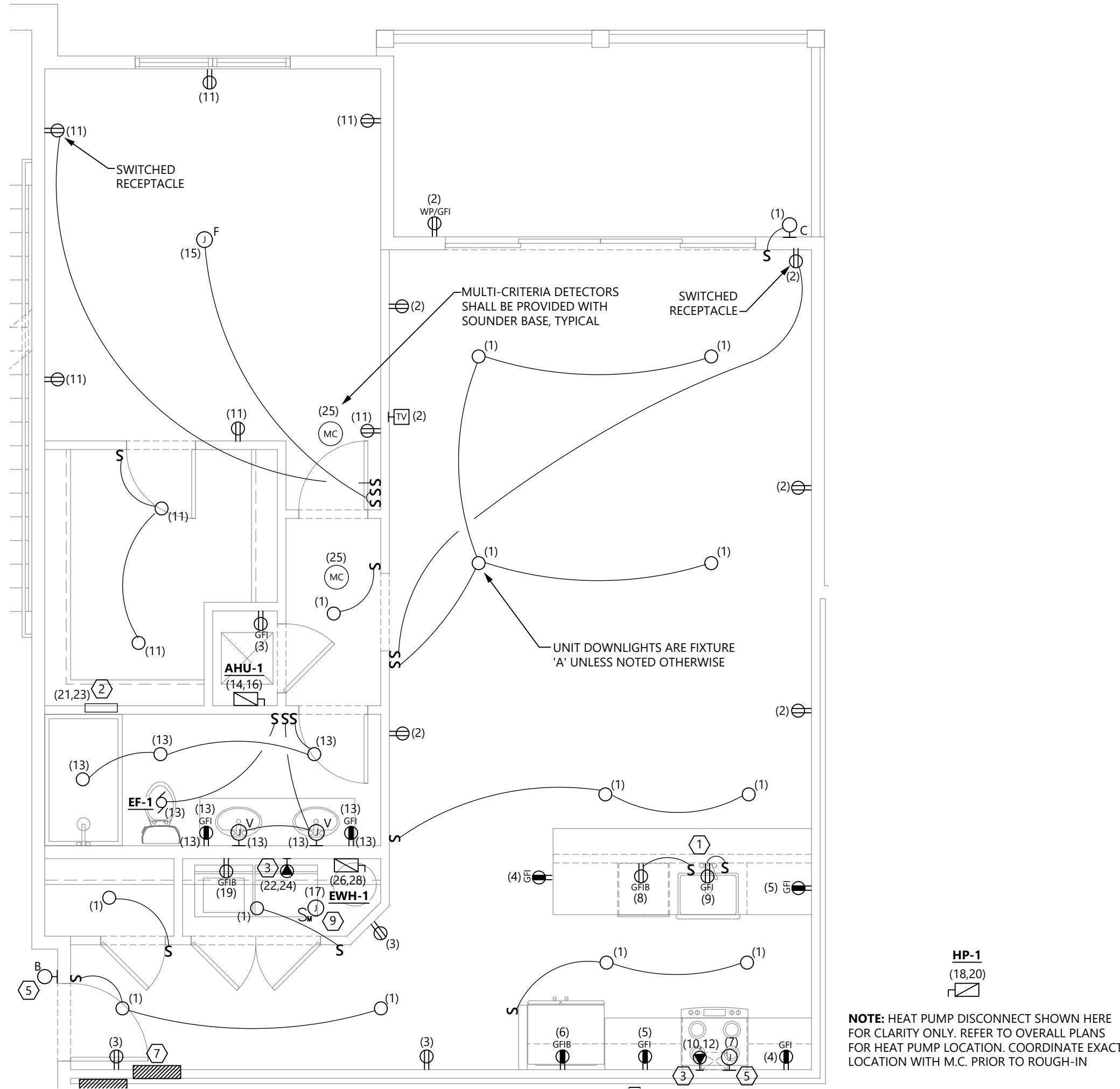
TYPICAL PANEL SCHEDULE FOR 1 BEDROOM UNITS

| NEW PANEL: 1-BDRM  |      |       |                      |           |                      |     |     |  |                        |            |      |             |            |
|--|------|-------|----------------------|-----------|----------------------|-----|-----|--|------------------------|------------|------|-------------|------------|
| VOLTAGE: 120/ 240<br>PHASE / WIRE: 1ϕ/ 3W<br>AMPS: 100<br>AIC: 10,000                    |      |       |                      |           |                      |     |     | MOUNTING: FLUSH<br><br>MAIN: LUGS ONLY |                        |            |      |             |            |
| LOAD<br>KVA  | WIRE | TRIP  | LOAD NAME            | CKT #     | L1                   |     | L2  | CKT #                                  | LOAD NAME              | TRIP       | WIRE | LOAD<br>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                                     |                        | 50         | 6    | 0.00        |            |
| 0.00   | 12   | 20    | REC - BEDROOM        | 11        |                      |     | ●   | 12                                     | RANGE                  |            | 6    | 0.00        |            |
| 0.00   | 12   | 20    | BATHROOM             | 13        | ●                    |     |     | 14                                     |                        | 20         | 12   | 0.00        |            |
| 0.00   | 12   | 20    | BEDROOM FAN          | 15        |                      |     | ●   | 16                                     | AIR HANDLER            |            | 12   | 0.00        |            |
| 0.00   | 12   | 20    | DRYER BOOSTER FAN    | 17        | ●                    |     |     | 18                                     |                        | 15         | 8    | 0.00        |            |
| 0.00   | 12   | 20    | WASHER (NOTE #7)     | 19        |                      |     | ●   | 20                                     | HEAT PUMP              |            | 8    | 0.00        |            |
| 0.00   | 12   | 20    | TELECOM BOX          | 21        | ●                    |     |     | 22                                     |                        | 30         | 10   | 0.00        |            |
| 0.00   | 12   | 20    | TELECOM BOX          | 23        |                      |     | ●   | 24                                     | DRYER                  |            | 10   | 0.00        |            |
| 0.00   | 12   | 20    | FIRE ALARM (NOTE #8) | 25        | ●                    |     |     | 26                                     |                        | 50         | 6    | 0.00        |            |
| 0.00   |      | 20    | SPARE                | 27        |                      |     | ●   | 28                                     | WATER HEATER           |            | 6    | 0.00        |            |
| 0.00   |      | 20    | SPARE                | 29        | ●                    |     |     | 30                                     | SPARE                  | 20         | 6    | 0.00        |            |
|  |      |       |                      | 31        |                      |     |     | 32                                     |                        |            |      |             |            |
|  |      |       |                      | 33        | ●                    |     |     | 34                                     |                        |            |      |             |            |
|  |      |       |                      | 35        |                      |     | ●   | 36                                     |                        |            |      |             |            |
|  |      |       |                      | 37        | ●                    |     |     | 38                                     |                        |            |      |             |            |
|  |      |       |                      | 39        |                      |     | ●   | 40                                     |                        |            |      |             |            |
|  |      |       |                      | 41        | ●                    |     |     | 42                                     |                        |            |      |             |            |
| SUB TOTALS   |      |       |                      |           |                      |     |     |  |                        |            |      |             |            |
| 0.0  |      |       |                      |           |                      |     |     |  |                        |            |      | 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                  |           |                      |     |     |  |                        |            |      |             |            |
| COOLING  | 0.0  | 1.00  | 0.0                  | L1=       | 0.0                  | kVA | 0.0 | AMPS                                   | DEMAND                 | (NOTE #10) |      |             |            |
| VENTILATION  | 0.0  | 1.00  | 0.0                  | L2=       | 0.0                  | kVA | 0.0 | AMPS                                   |                        |            |      |             |            |
| MOTORS   | 0.0  | 1.00  | 0.0                  |           |                      |     |     |  |                        |            |      |             | (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                                   | DEMAND AT 125%         | (NOTE #10) |      |             |            |
| REC. (>10kVA)  | 0.0  | 0.50  | 0.0                  |           |                      |     |     |  |                        |            |      |             |            |
| WATER HEATER   | 0.0  | 1.00  | 0.0                  |           |                      |     |     |  |                        |            |      |             |            |
| 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  | 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)  |  |            |        |                                      |                                   | 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 @ 55%  |  |            | 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 | kVA  |
|  |  |            |        | 97.60                                | AMPS                              |   |  |      |     | 69.81 | AMPS |
| 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

- 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 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.
- KEYED NOTES:
- <



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              |                        |      |      |            |            |
| 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  |                      |                 |                        |      |      |            | (NOTE #10) |
| MOTORS   |      |      |                      | 0.0   | 1.00 | 0.0  | DEMAND               |                 |                        |      |      |            |            |
| 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 | (NOTE #10) |            |
| 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  | 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<br>(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   | 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 |        |            |                                   |  |   |       |



TYPICAL PANEL SCHEDULE FOR 2 BEDROOM TYPE-A UNITS

| NEW PANEL: 2-BDRM TYPE-A   |      |      |                      |       |      |      |                      |  |                        |      |      |          |            |
|--|------|------|----------------------|-------|------|------|----------------------|--|------------------------|------|------|----------|------------|
| VOLTAGE: 120/ 240<br>PHASE / WIRE: 1p/ 3W<br>AMPS: 125<br>AIC: 10,000                    |      |      |                      |       |      |      |                      | MOUNTING: FLUSH<br><br>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                                     | HEAT PUMP              | 20   | 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                                     | 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   |      |          |            |
|  |      |      |                      |       |      |      |                      |  |                        |      |      | 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 - 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<br>(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                   |
| A/C & Cooling @ 100%   |  | 5.44       | kVA  | > 3 kVA to 120 kVA @ 35%   |   | 2.02                   |
| HP Compressor @ 100%   |  | 0.00       | kVA  | > 120 kVA @ 25%  |   | 0.00                   |
| HP Strip Heat @ 65%  |  | 0.00       | kVA  | Remaining L-N Loads @ 100%   |   | 4.10                   |
| Electric Space Heat @ 65%  |  | 0.00       | kVA  | Dryer Load @ 70%   |   | 3.50                   |
| Electric Space Heat @ 40%  |  | 0.00       | kVA  | Range Load @ 70%   |   | 4.48                   |
| Electric Thermal & Other Heating   |  | 0.00       | kVA  | Unbalanced load > 200A @ 70%   |   | 0.00                   |
| TOTAL DEMAND LOAD (PHASE)  |  | 25.63      | kVA  | TOTAL DEMAND LOAD (NEUTRAL)  |   | 17.10                  |
|  |  | 106.90     | AMPS |  |   | 71.26                  |
| Quantity of 15A general lighting circuits (w/ AFCI-P) = 3<br>OR<br>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   |  |            |      |  |   |                        |

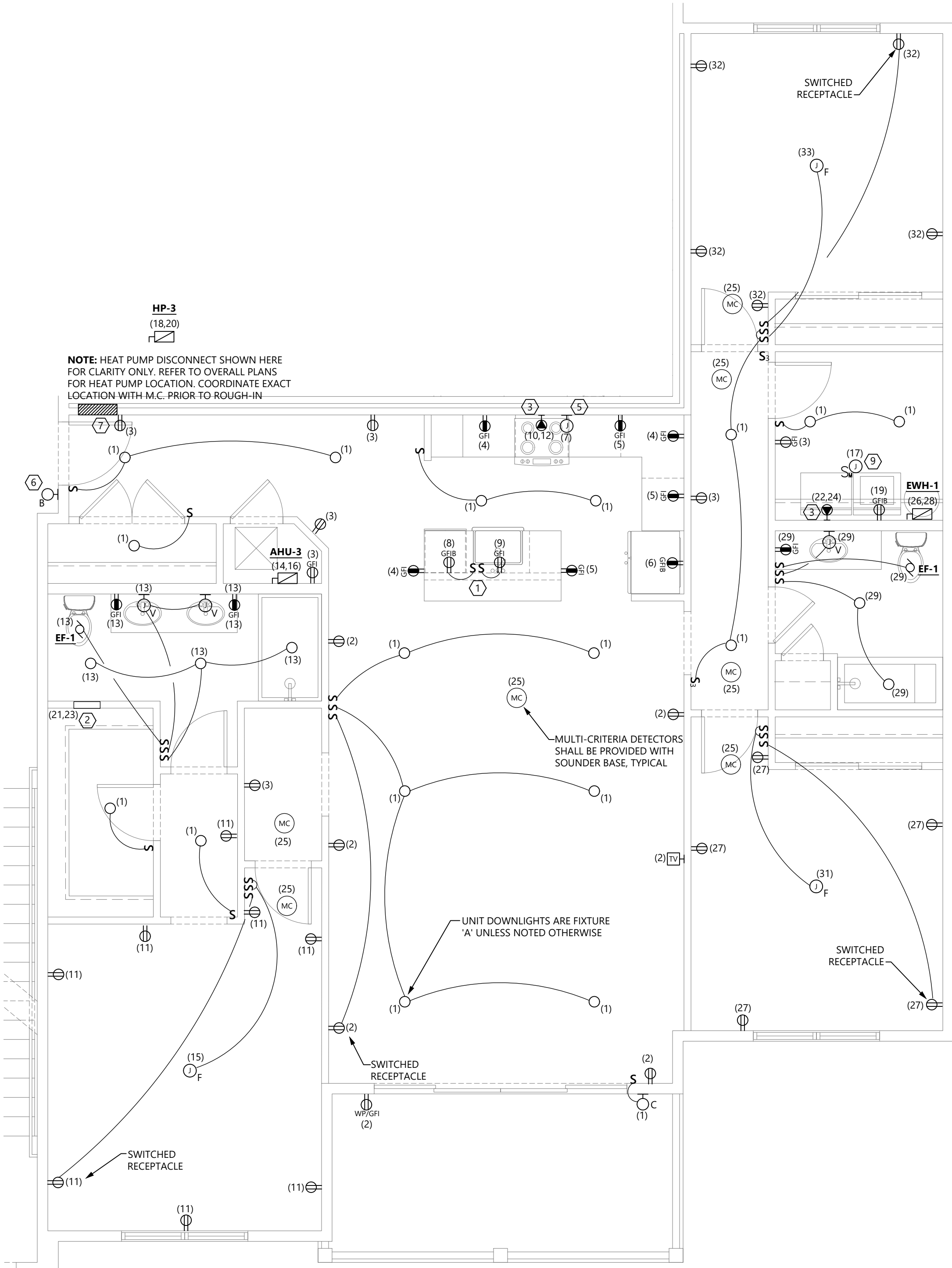


TYPICAL PANEL SCHEDULE FOR 3 BEDROOM TYPE-A UNITS

| NEW PANEL: 3-BDRM TYPE-A   |      |      |                      |       |    |  |    |       |                        |  |      |             |
|--|------|------|----------------------|-------|----|--|----|-------|------------------------|--|------|-------------|
| VOLTAGE: 120/ 240<br>PHASE / WIRE: 1φ/ 3W<br>AMPS: 125<br>AIC: 10,000                    |      |      |                      |       |    |  |    |       |                        | MOUNTING: FLUSH<br><br>MAIN: LUGS ONLY |      |             |
| LOAD<br>KVA  | WIRE | TRIP | LOAD NAME            | CKT # | L1 |  | L2 | CKT # | LOAD NAME              | TRIP                                   | WIRE | LOAD<br>KVA |
|  |      |      |                      |       |    |  |    |       |                        |  |      |             |
| 0.00   | 12   | 20   | LIGHTING             | 1     | ●  |  |    | 2     | REC - LIVING ROOM      | 20                                     | 12   | 0.00        |
| 0.00   | 12   | 20   | REC - GENERAL        | 3     |    |  | ●  | 4     | REC - KITCHEN          | 20                                     | 12   | 0.00        |
| 0.00   | 12   | 20   | REC - KITCHEN        | 5     | ●  |  |    | 6     | REFRIGERATOR (NOTE #7) | 20                                     | 12   | 0.00        |
| 0.00   | 12   | 20   | RANGE HOOD           | 7     |    |  | ●  | 8     | DISHWASHER (NOTE #7)   | 20                                     | 12   | 0.00        |
| 0.00   | 12   | 20   | DISPOSAL             | 9     | ●  |  |    | 10    | RANGE                  | 50                                     | 6    | 0.00        |
| 0.00   | 12   | 20   | REC - MASTER BEDROOM | 11    |    |  | ●  | 12    |                        |  |      | 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    |                        |  |      | 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    |                        |  |      | 0.00        |
| 0.00   | 12   | 20   | TELECOM BOX          | 21    | ●  |  |    | 22    | DRYER                  | 30                                     | 10   | 0.00        |
| 0.00   | 12   | 20   | TELECOM BOX          | 23    |    |  | ●  | 24    |                        |  |      | 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    |                        |  |      | 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 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                    |     |  |  |
|  |  |            |     |                                   | 109.41  | AMPS                   |     |  |  |
| TOTAL DEMAND LOAD (PHASE)                                    |  |            |     |                                   | TOTAL DEMAND LOAD (NEUTRAL)   |                        |     |  |  |
|  |  |            |     |                                   | 17.41 kVA   |                        |     |  |  |
|  |  |            |     |                                   | 72.53 AMPS  |                        |     |  |  |
| Quantity of 15A general lighting circuits (w/ AFCI-P) = 3    |  |            |     |                                   | 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) = 3    |  |            |     |                                   |   |                        |     |  |  |
| NOTES:   |  |            |     |                                   |   |                        |     |  |  |
| 1. Calculations are based on a 120/240-Volt, 1-Phase, 3-Wire |  |            |     |                                   |   |                        |     |  |  |



ENLARGED UNIT PLAN - 3 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 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.

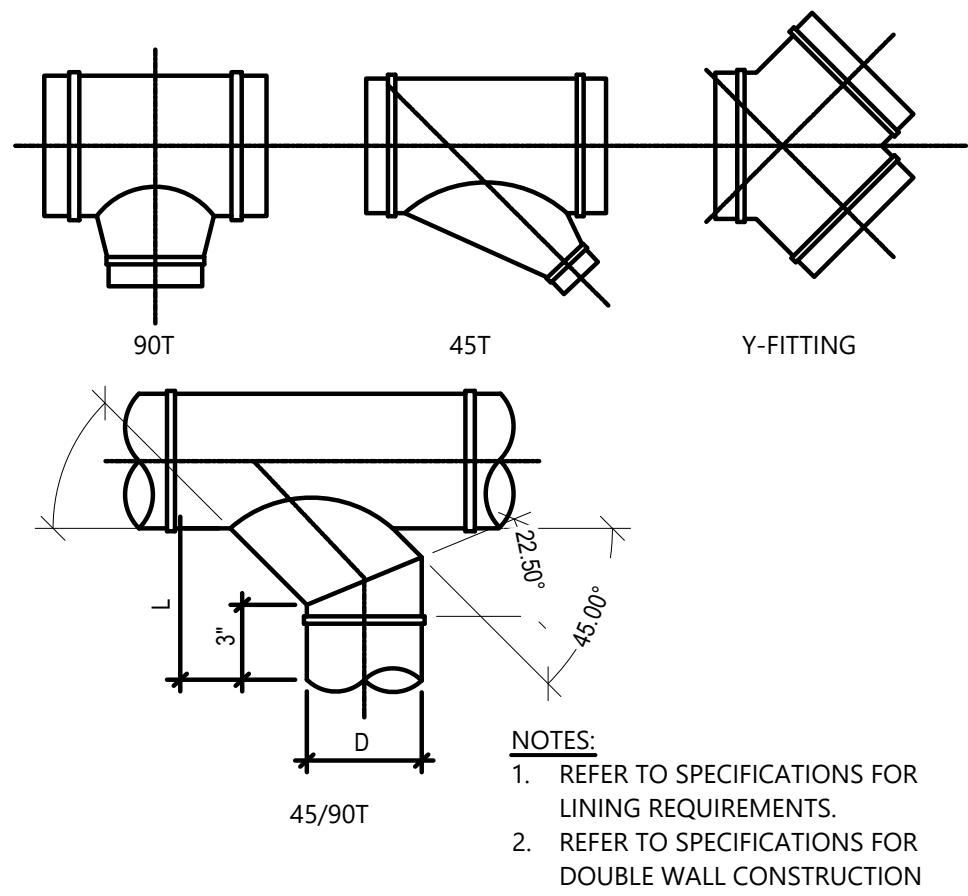
KEYED NOTES:

- 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.

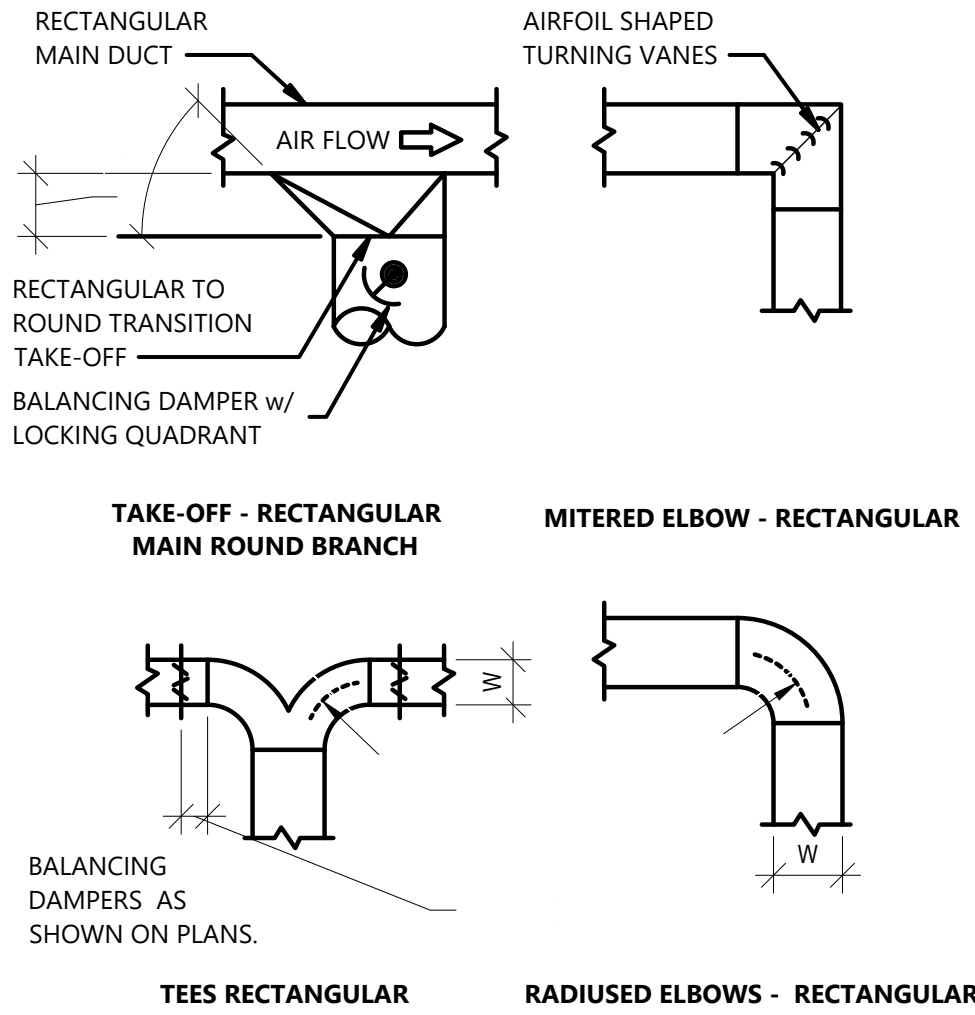
| MECHANICAL EQUIPMENT CONNECTION SCHEDULE - 3 BEDROOM UNITS |   |                           |       |      |     |      |      |                  |                   |      |      |      |       |
|--|---|---------------------------|-------|------|-----|------|------|------------------|-------------------|------|------|------|-------|
| TAG  | EQUIPMENT DESCRIPTION   | EQUIPMENT CHARACTERISTICS |       |      | FLA | MCA  | MOCP | FEEDER           | DISCONNECT SWITCH |      |      |      | NOTES |
|  |   | VOLTAGE                   | PHASE | KW   |     |      |      |                  | SIZE              | POLE | FUSE | NEMA |       |
| AHU-3  | 1 BEDROOM AIR HANDLER   | 240                       | 1     | -    | -   | 26.4 | 30   | 3#10,1#10G,1"C   | 30                | 2    | 30   | 1    | 1     |
| HP-3   | 1 BEDROOM HEAT PUMP   | 240                       | 1     | -    | -   | 17   | 25   | NOTE 3           | 30                | 2    | 25   | 3R   | 1,3   |
| EWH-1  | ELECTRIC WATER HEATER   | 240                       | 1     | 9.60 | -   | -    | 50   | 3#6,1#10G,1"C    | 60                | 2    | 50   | 1    | 1     |
| 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   |                           |       |      |     |      |      |                  |                   |      |      |      |       |

- PRELIMINARY -  
NOT FOR CONSTRUCTION

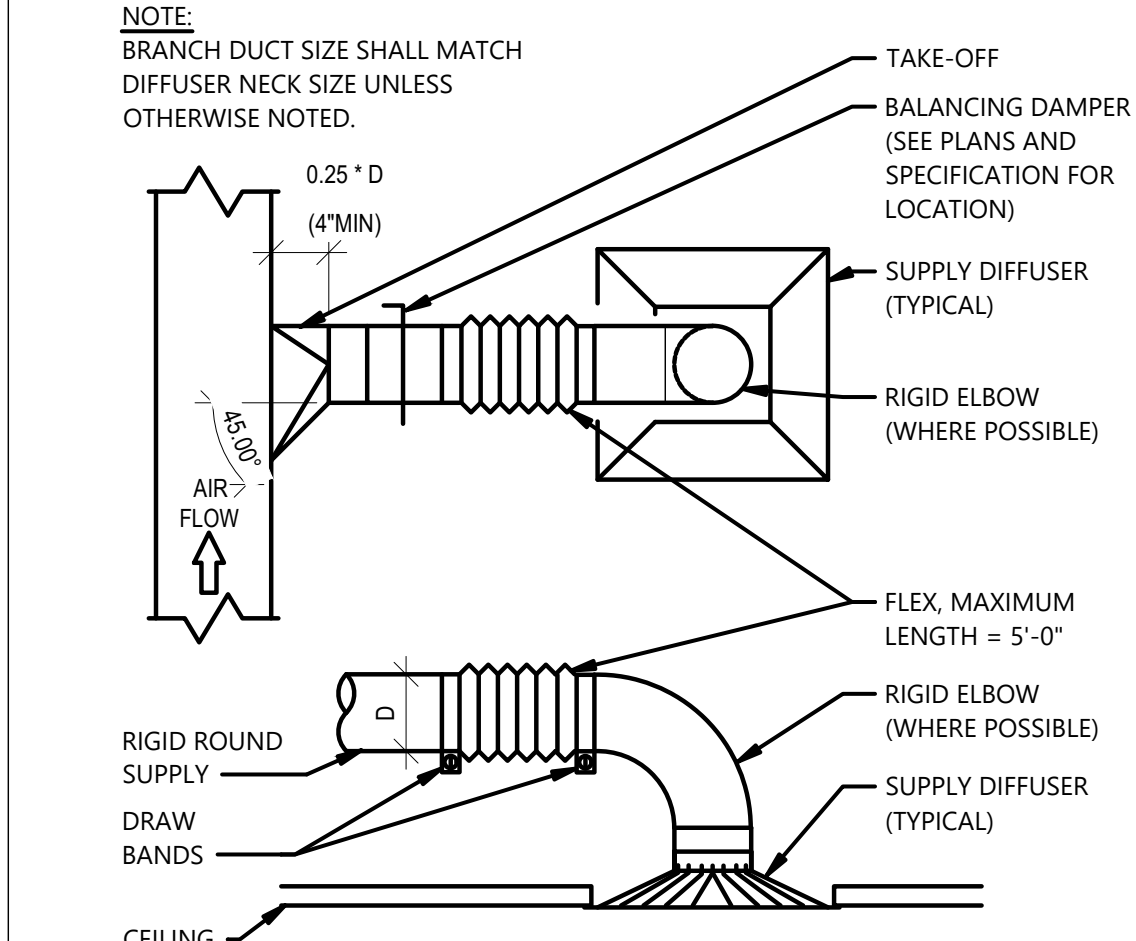




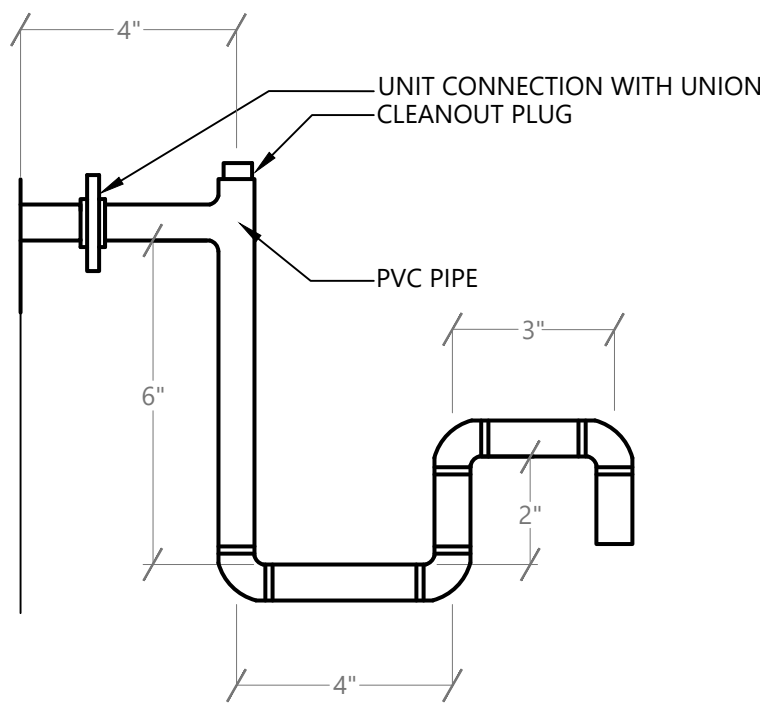
NO SCALE  
① ROUND DUCT FITTINGS DETAIL



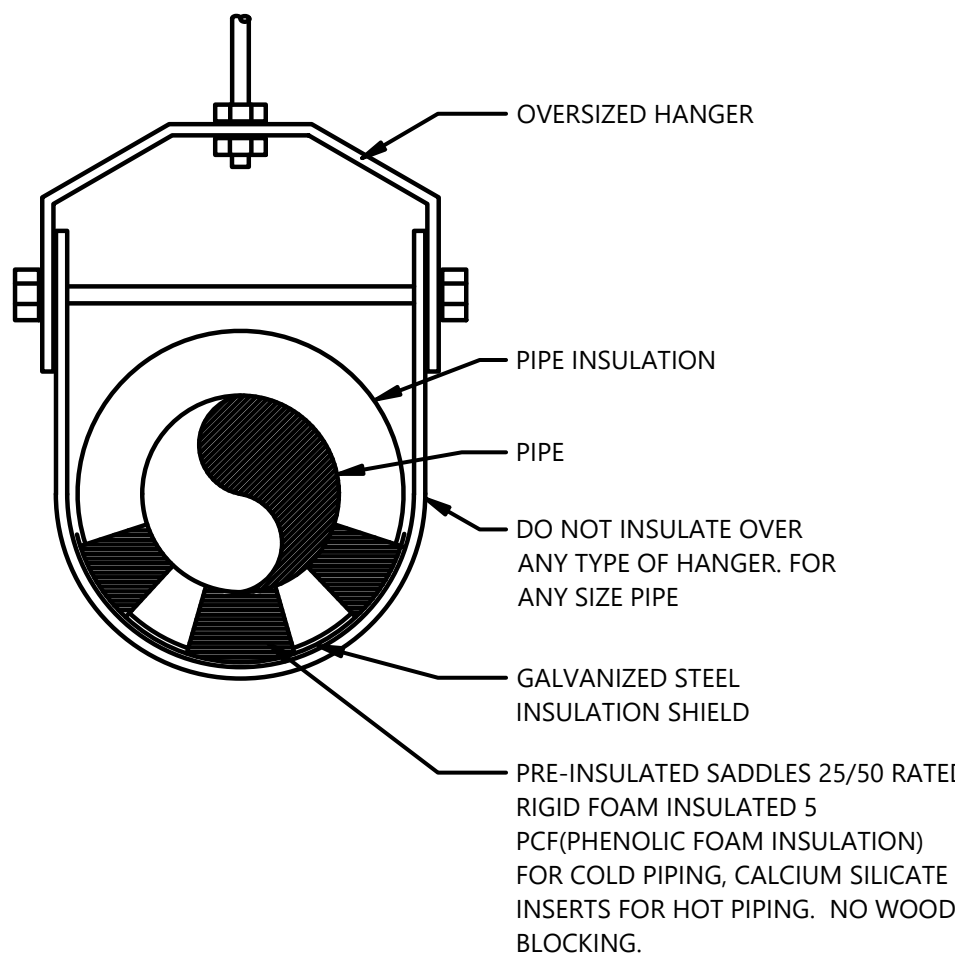
NO SCALE  
② RECTANGULAR DUCT FITTINGS DETAIL



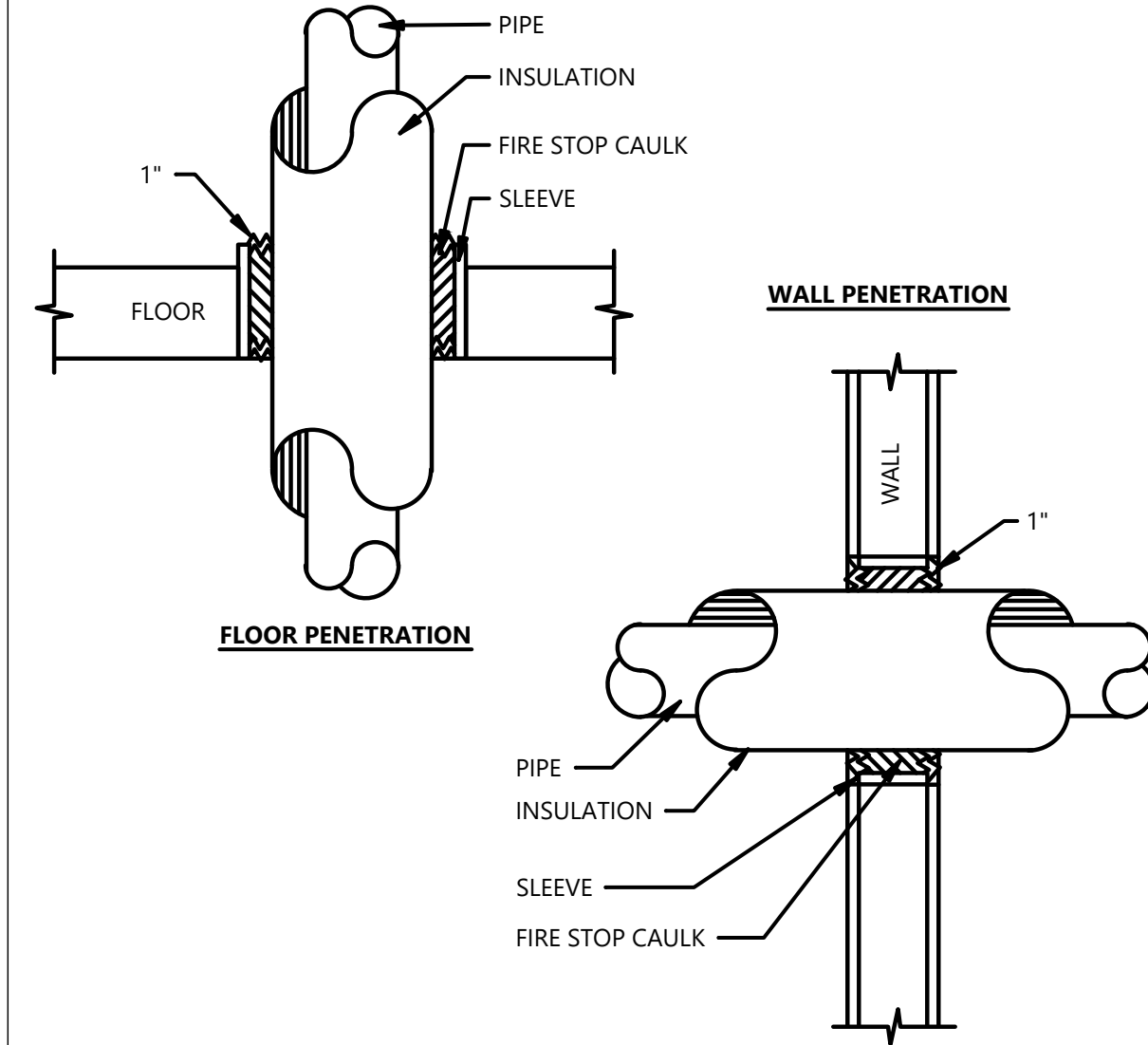
NO SCALE  
③ ROUND BRANCH DUCT TAKE-OFF DETAIL



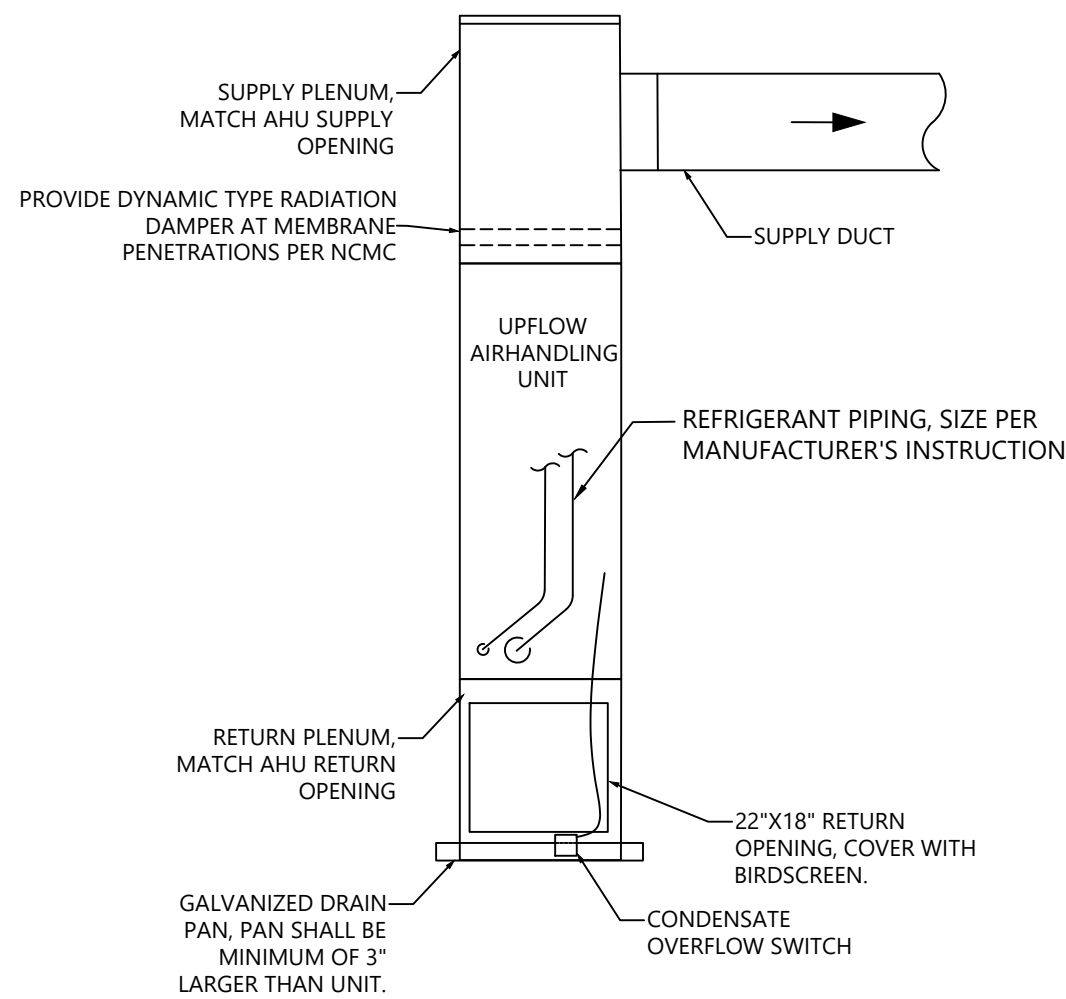
NO SCALE  
④ DRAIN CONNECTION DETAIL



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.<br>(MBH) | SUPPLY AIR FAN |             |                   |     |     | ELECTRIC HEATER<br>(KW) | VOLTAGE/PH | MCA<br>(A) | MOCP<br>(A) |     |        |
|       |       |                  |           |                    | SA<br>(CFM)    | OA<br>(CFM) | ESP<br>(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:
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7
- 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.                   | SEER2 | NOM. CAP                    | HSPF2 | VOLTAGE/PH      | MCA  | MOCP |        |
|      |       |                   |           |              | (MBH)                       |       | (MBH)                       |       |                 |      |      |        |
| HP-1 | 1-3   | GOODMAN           | GLZS4MA18 | R32          | 18                          | 14.5  | 18                          | 7.5   | 230/1           | 11.4 | 15   | 175    |
| 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:
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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 | MOC |        |
|       |            |              |           |               |                     |               | (CFM)   |      | (IN. W.C.) | (HP)       |                 |       | (A) | (A) |        |
| 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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11

12
- 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<br>(KW) | VOLTS | PHASE | AMPS |
| ECUH-1 | 1-5   | QMARK        | CWH1202DSF | WALL     | 2                | 240   | 1     | 8.3  |

- NOTES:
- 1

2

3

4

5
- 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<br>(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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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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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
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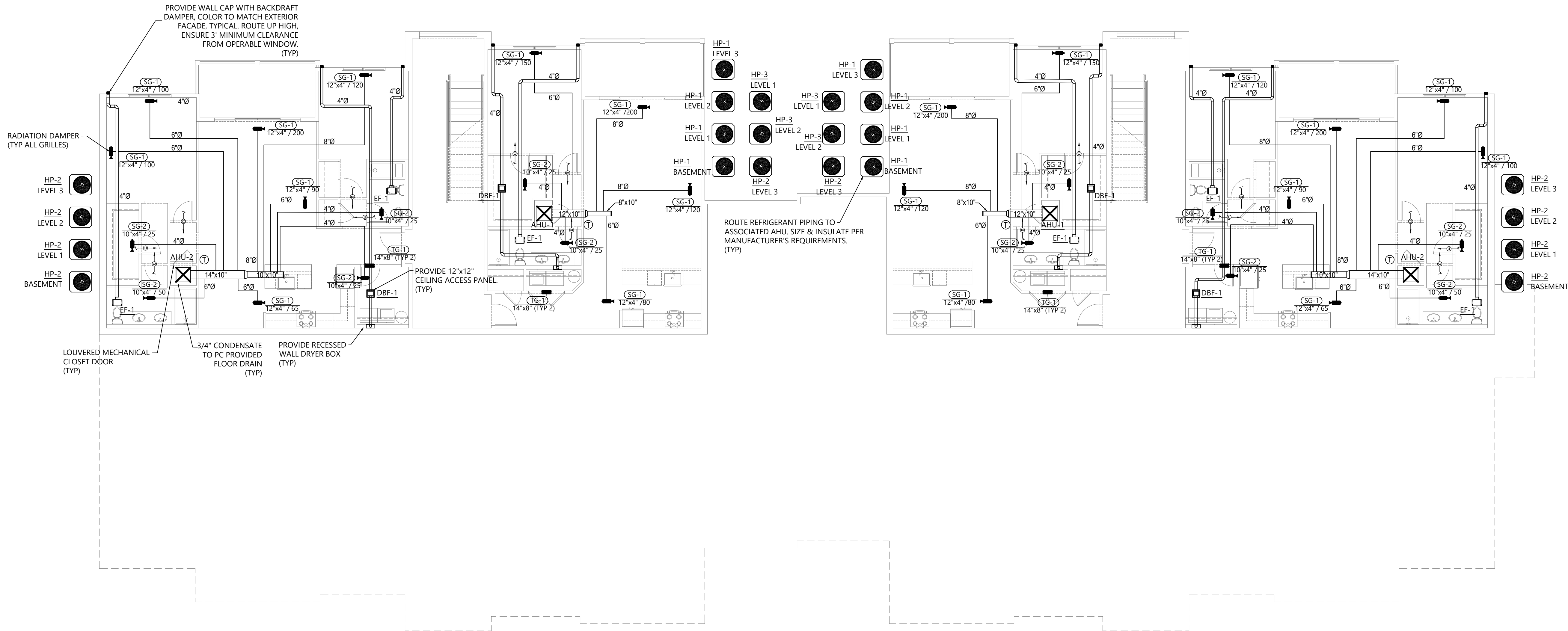
DWG DESCRIPTION:

MECHANICAL  
SCHEDULES

SHEET #:

M-01





1 MECHANICAL PLAN - BUILDINGS 1 & 6 (28 UNIT BUILDING) - BASEMENT  
1/8" = 1'-0"

- PRELIMINARY -  
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Hendersonville, North Carolina

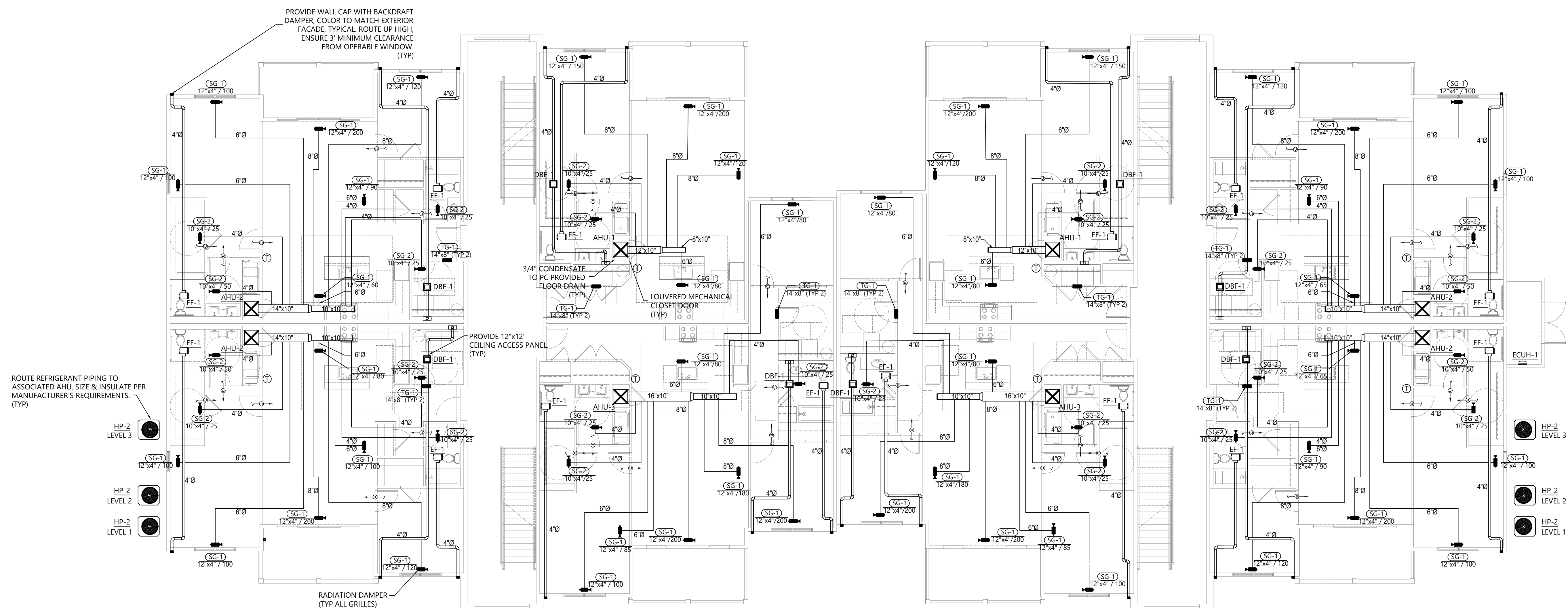
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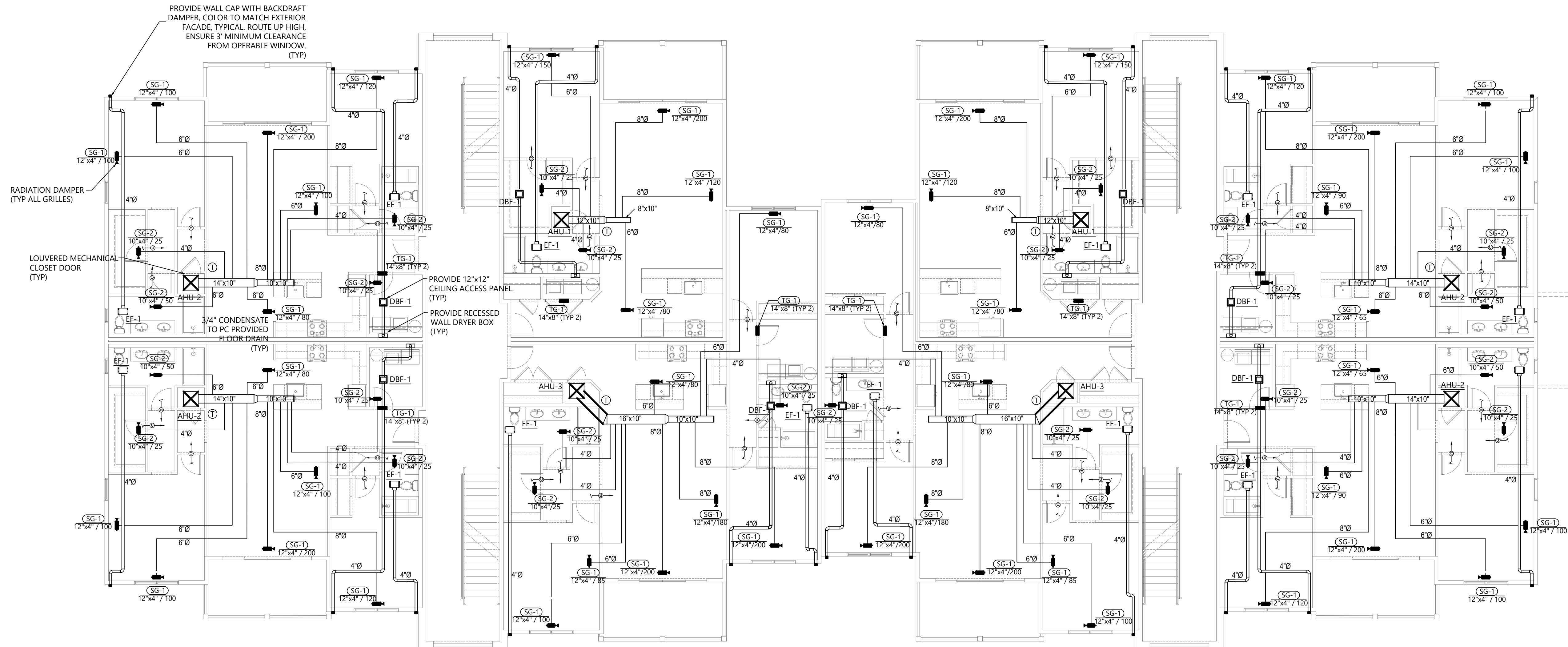
DWG DESCRIPTION:  
MECHANICAL PLAN -  
BASEMENT -  
BUILDINGS 1 & 6

SHEET #:  
**M-1**









1 MECHANICAL PLAN - BUILDINGS 1 & 6 (28 UNIT BUILDING) - SECOND FLOOR  
1/8"=1'-0"

- PRELIMINARY -  
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Luis Graef: President



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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
DRAWN BY: RS  
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DWG DESCRIPTION:  
MECHANICAL PLAN -  
SECOND FLOOR -  
BUILDINGS 1 & 6

SHEET #:  
**M-3**



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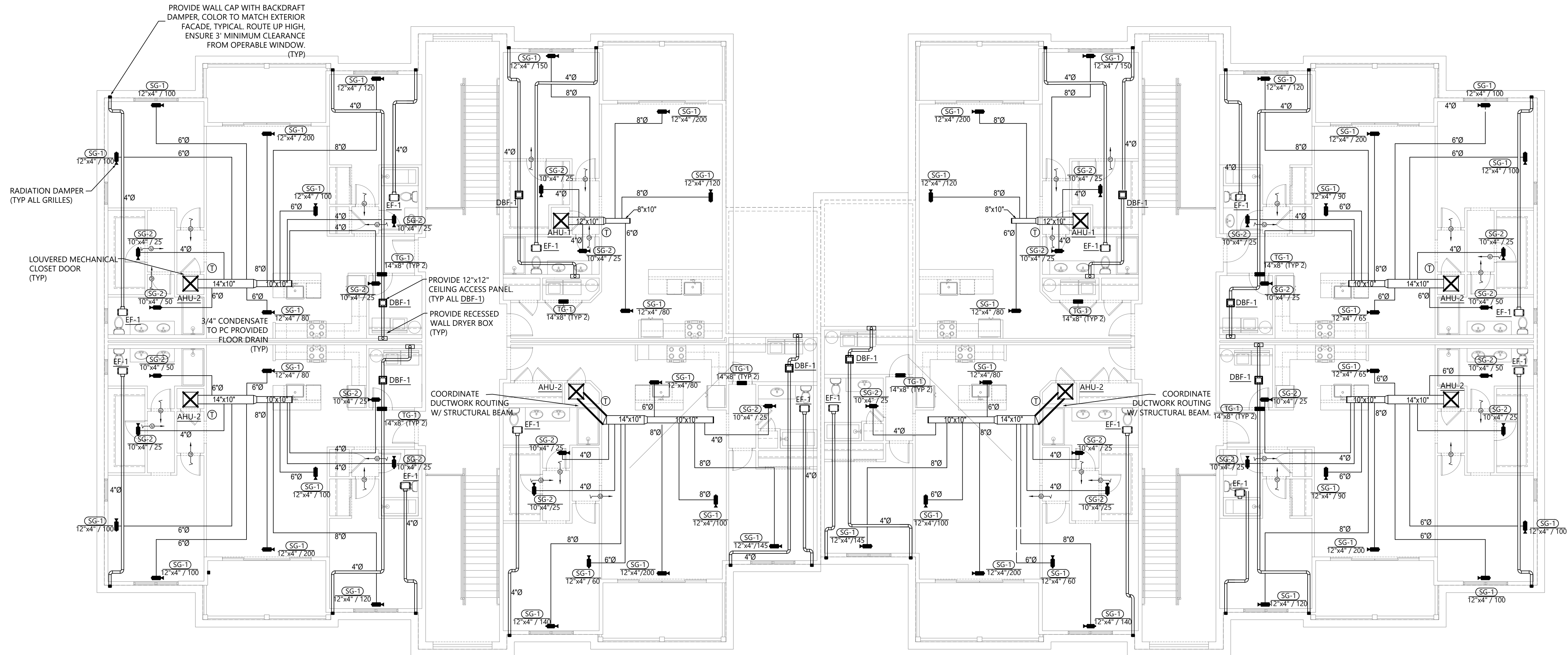
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DWG INFO:  
ISSUE DATE: 4/11/25  
PROJECT #: 22105  
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DWG DESCRIPTION:  
MECHANICAL PLAN -  
THIRD FLOOR -  
BUILDINGS 1 & 6

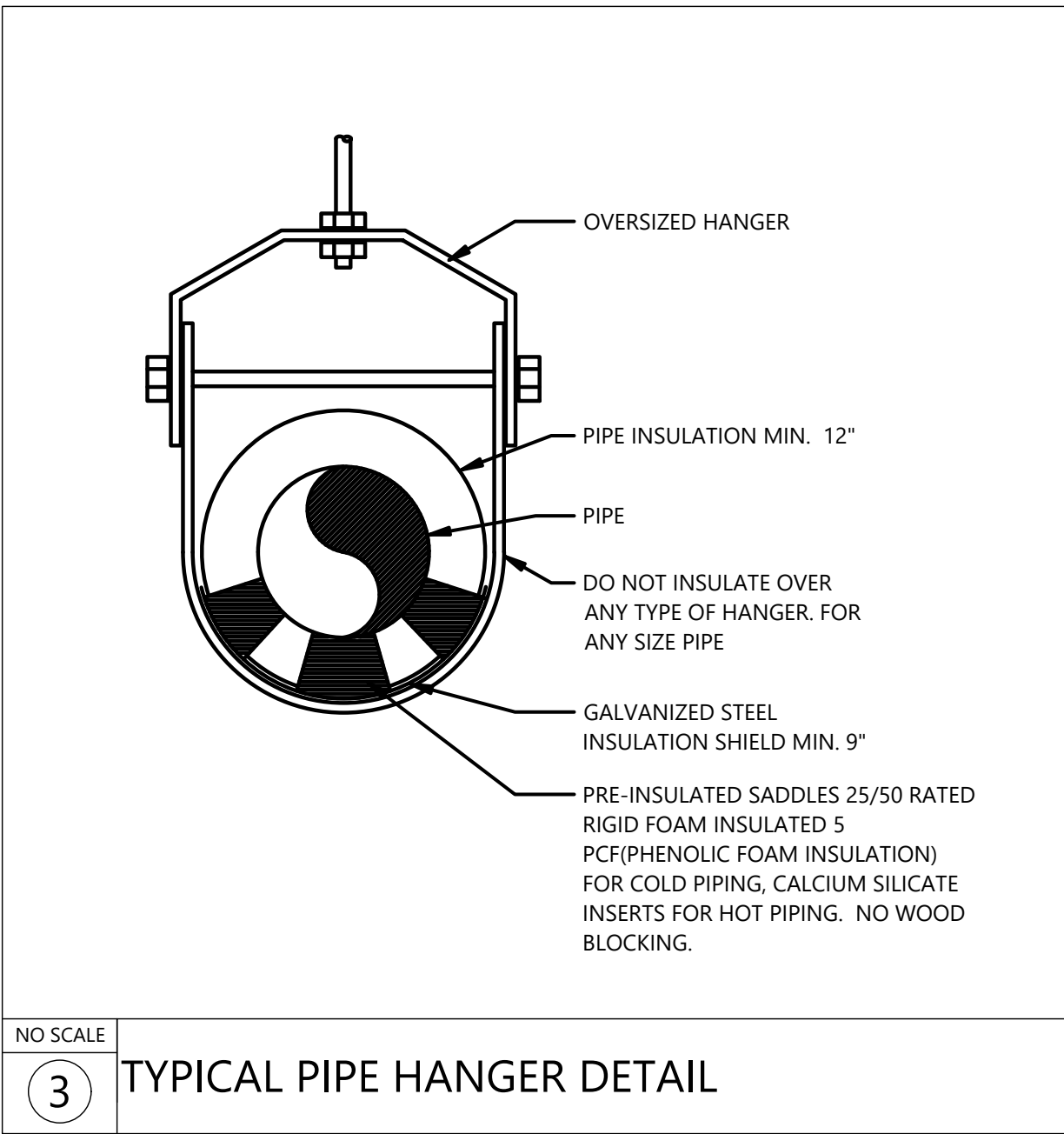
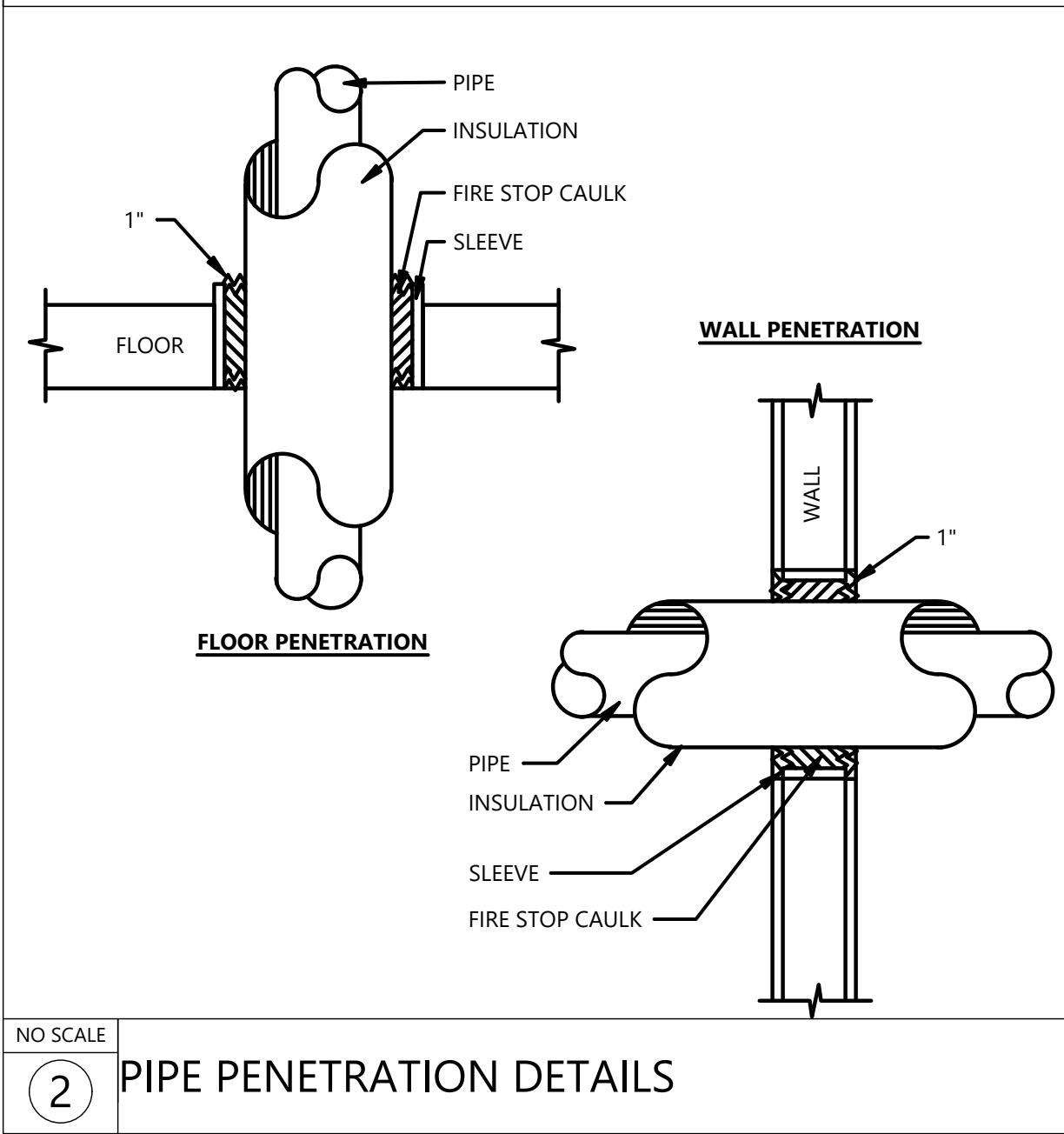
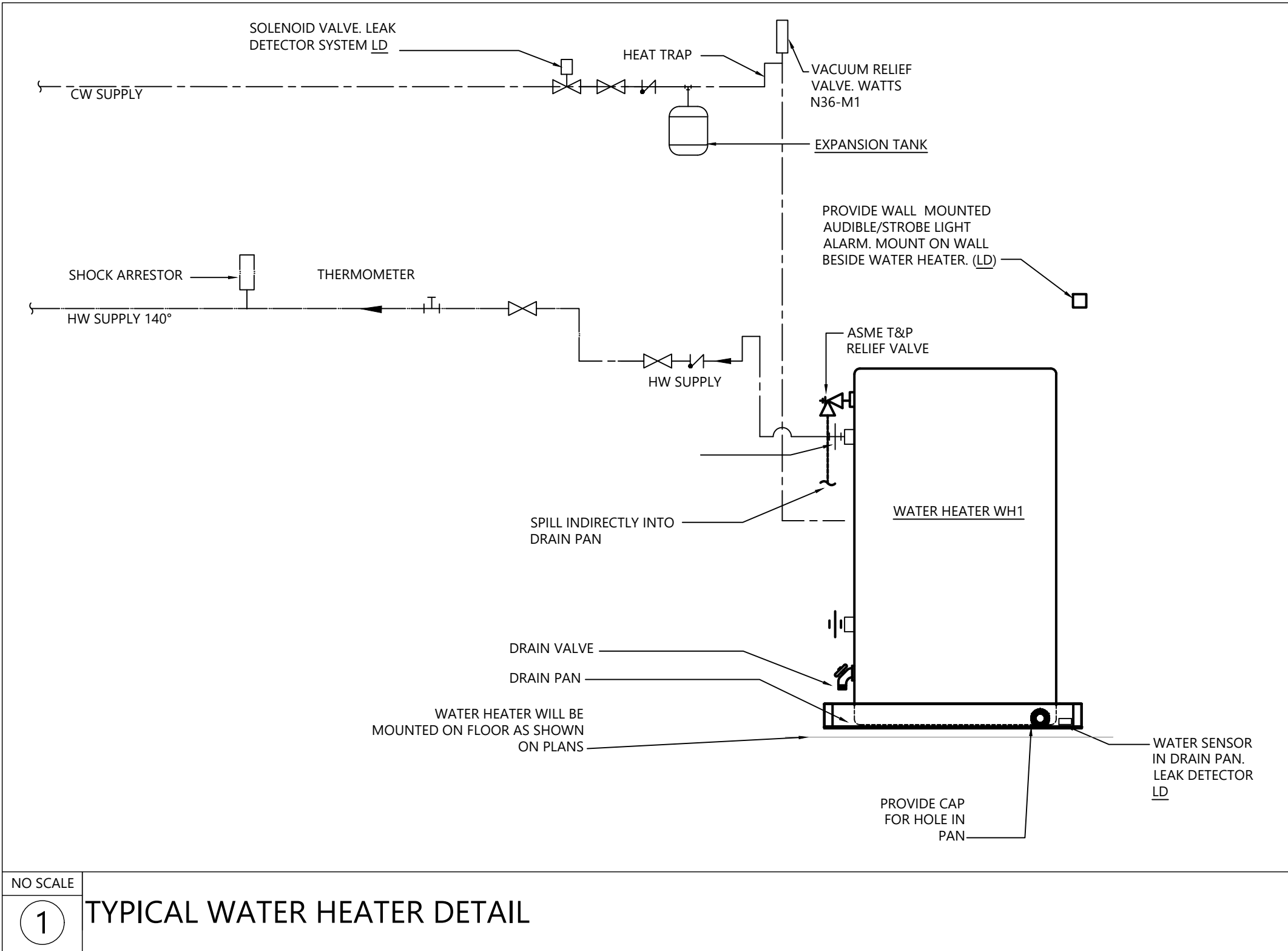
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M-4



1 MECHANICAL PLAN - BUILDINGS 1 & 6 (28 UNIT BUILDING) - THIRD FLOOR  
1/8"=1'-0"





| 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 | RELIANT 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              | Z415B                   | -                         | CAST IRON            | -   | FLOOR    | -           | -         | -                                   | -                | -    | 4"     | 2"     | -        |

| ELECTRIC TANK WATER HEATER SCHEDULE |                |          |                    |          |                         |         |       |
|-------------------------------------|----------------|----------|--------------------|----------|-------------------------|---------|-------|
| Tag                                 | Service        | Location | HEATING INPUT (kW) | Volt/Ph  | Mfg/Model #             | Gallons | Notes |
| EWH-1                               | LAUNDRY CLOSET | ON FLOOR | 9.6kW              | 240V/1ph | BRADFORD WHITE/ENSS0T-6 | 50      | -     |

| PLUMBING LEGEND          |                               |  | PLUMBING MATERIALS AND NOTES  |               |                      |
|--------------------------|-------------------------------|--|---|---------------|----------------------|
| NEW PIPING               | ABBR.                         | DESCRIPTION                                | DOMESTIC WATER PIPING:  |               |                      |
| ---                      | CW                            | COLD 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).  |               |                      |
| ---                      | HW                            | HOT WATER PIPING                           | 2. STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.  |               |                      |
| ---                      | HWR                           | HOT WATER RETURN PIPING                    | 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:   |               |                      |
| ---                      | W                             | SANITARY WASTE PIPING                      | SERVICE TYPE  | PIPE SIZES    | INSULATION THICKNESS |
| ---                      | V                             | SANITARY VENT PIPING                       | DOMESTIC HOT WATER & CIRCULATION  | 1/2" - 1-1/2" | 1"                   |
| ---                      | D                             | DRAIN                                      | DOMESTIC HOT WATER & CIRCULATION  | 1-1/2" - 4"   | 1-1/2"               |
| ---                      | -                             | ELBOW DOWN                                 | DOMESTIC COLD WATER   | 1/2" - 1-1/4" | 1/2"                 |
| ---                      | -                             | ELBOW UP                                   | DOMESTIC COLD WATER   | 1-1/2" - 4"   | 1"                   |
| ---                      | -                             | PIPE CONTINUES                             | 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. |               |                      |
| ---                      | -                             | BALL VALVE                                 | 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.   |               |                      |
| ---                      | CV                            | CHECK VALVE                                | 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.   |               |                      |
| ---                      | FCO                           | FLOOR CLEAN OUT                            | 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.   |               |                      |
| ---                      | WCO                           | WALL CLEAN OUT                             | 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.  |               |                      |
| ---                      | YCO                           | YARD CLEAN OUT                             | SANITARY WASTE / VENT PIPING:   |               |                      |
| ---                      | HB                            | HOSE BIBB/WALL HYDRANT                     | 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.   |               |                      |
| ---                      | SA                            | SHOCK ARRESTOR - SUFFIX INDICATES PDI SIZE | 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).  |               |                      |
| ---                      | -                             | THERMOMETER                                | 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.  |               |                      |
| ---                      | -                             | PRESSURE GAUGE                             | 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.  |               |                      |
| ADDITIONAL ABBREVIATIONS |                               |  | 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.   |               |                      |
| ABV                      | ABOVE                         | KW   | 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.  |               |                      |
| AFF                      | ABOVE FINISHED FLOOR          | LAV  |   |               |                      |
| AFG                      | ABOVE FINISHED GRADE          | MBH  |   |               |                      |
| BAS                      | BUILDING AUTOMATION SYSTEM    | MFG  |   |               |                      |
| BEL                      | BELOW                         | MH   |   |               |                      |
| BFF                      | BELOW FINISHED FLOOR          | PH   |   |               |                      |
| BTUH                     | BRITISH THERMAL UNIT / HOUR   | PSI  |   |               |                      |
| CFH                      | CUBIC FEET PER HOUR           | SF   |   |               |                      |
| CLG                      | CEILING                       | SFU  |   |               |                      |
| CONT                     | CONTINUATION                  | T&P  |   |               |                      |
| DFU                      | DRAINAGE FIXTURE UNIT (WASTE) | TYP  |   |               |                      |
| DN                       | DOWN                          | UR   |   |               |                      |
| (E)                      | EXISTING                      | VB   |   |               |                      |
| EX                       | EXISTING                      | VV   |   |               |                      |
| FEE                      | EXISTING FLOOR ELEVATION      | VTR  |   |               |                      |
| FIN                      | FINISH                        | WC   |   |               |                      |
| FL                       | FLOOR                         | EC   |   |               |                      |
| FR                       | FROM                          | GC   |   |               |                      |
| FU                       | FIXTURE UNITS                 | MC   |   |               |                      |
| GPC                      | GALLONS PER CYCLE (METERING)  | PC   |   |               |                      |
| GPF                      | GALLONS PER FLUSH             |  |   |               |                      |
| GPM                      | GALLONS PER MINUTE            |  |   |               |                      |
| HP                       | HORSE POWER                   |  |   |               |                      |
| INV                      | INVERT ELEVATION              |  |   |               |                      |

- ### PLUMBING GENERAL NOTES
- GENERAL REQUIREMENTS:
- 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.
  - SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.
  - 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.
  - WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL PLUMBING MATERIALS AND EQUIPMENT.
  - 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.
  - 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.
  - WHERE DISCREPANCIES ARE FOUND IN THE DRAWINGS AND SPECIFICATIONS THE MORE STRINGENT SHALL APPLY. CONTACT ENGINEER FOR CLARIFICATION.
  - ALL PIPING SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
  - 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.
  - 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.
  - PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC.
  - 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.
  - 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.
  - PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
  - ATTACH HANGERS TO STRUCTURE. HANGERS SHALL NOT ATTACH TO THE DECK.
  - PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY WALLS, GYPBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS.
  - 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.
  - PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES, DOMESTIC WATER SYSTEM, SANITARY WASTE AND VENT SYSTEM, NATURAL GAS SYSTEM.
- PLUMBING FIXTURES AND EQUIPMENT:
- PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.
  - PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
  - NO PRIVATE LABELED MATERIALS WILL BE ACCEPTED AS EQUALS TO PRODUCTS SPECIFIED HEREIN.
  - 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  
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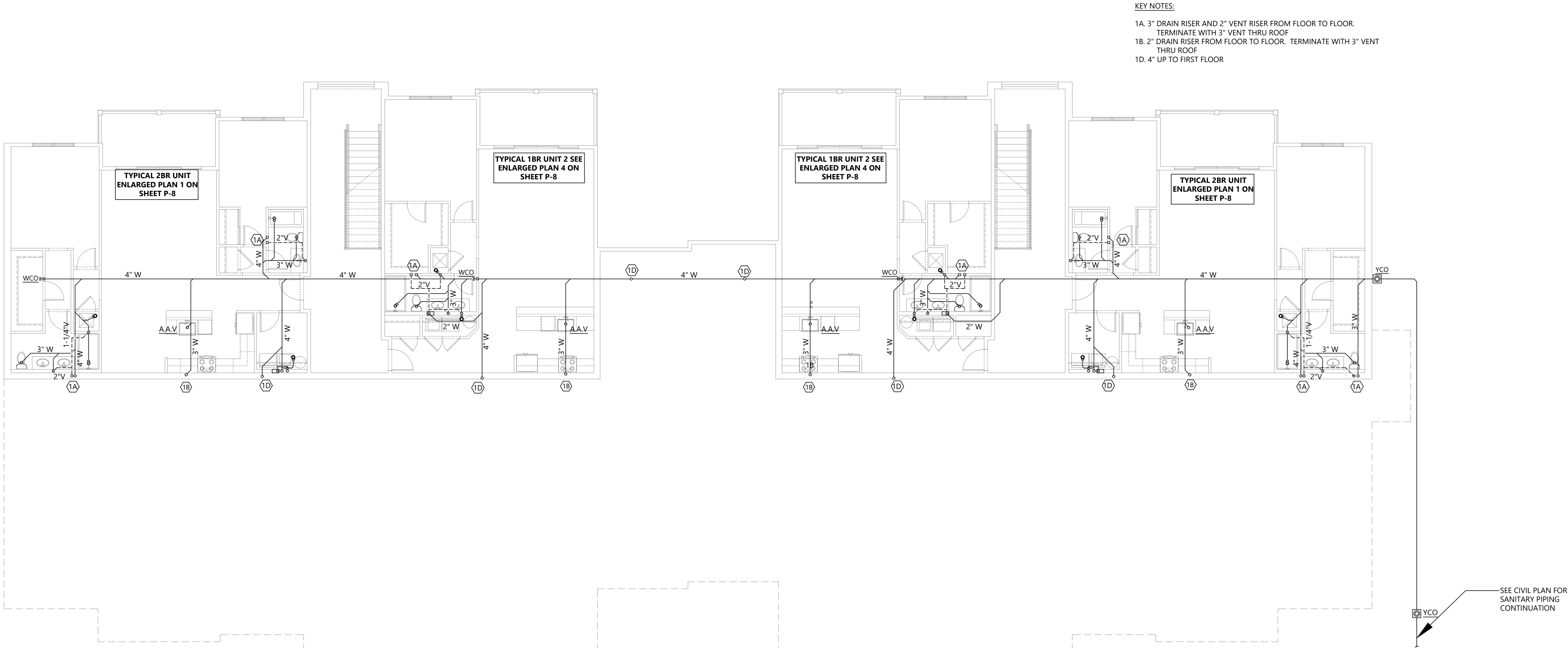
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PROJECT #: 22105  
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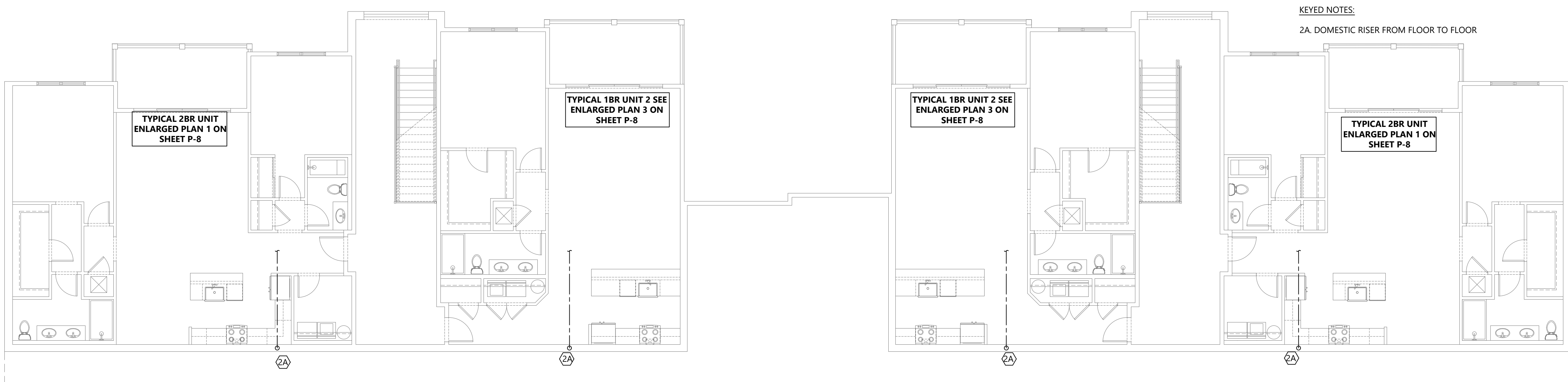
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**P-00**

WILDE # 24-125





1 PLUMBING SANITARY PLAN BLDGS 1 & 6 BASEMENT  
1/8"=1'-0"



2 PLUMBING DOMESTIC SUPPLY PLAN BLDGS 1 & 6 BASEMENT  
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

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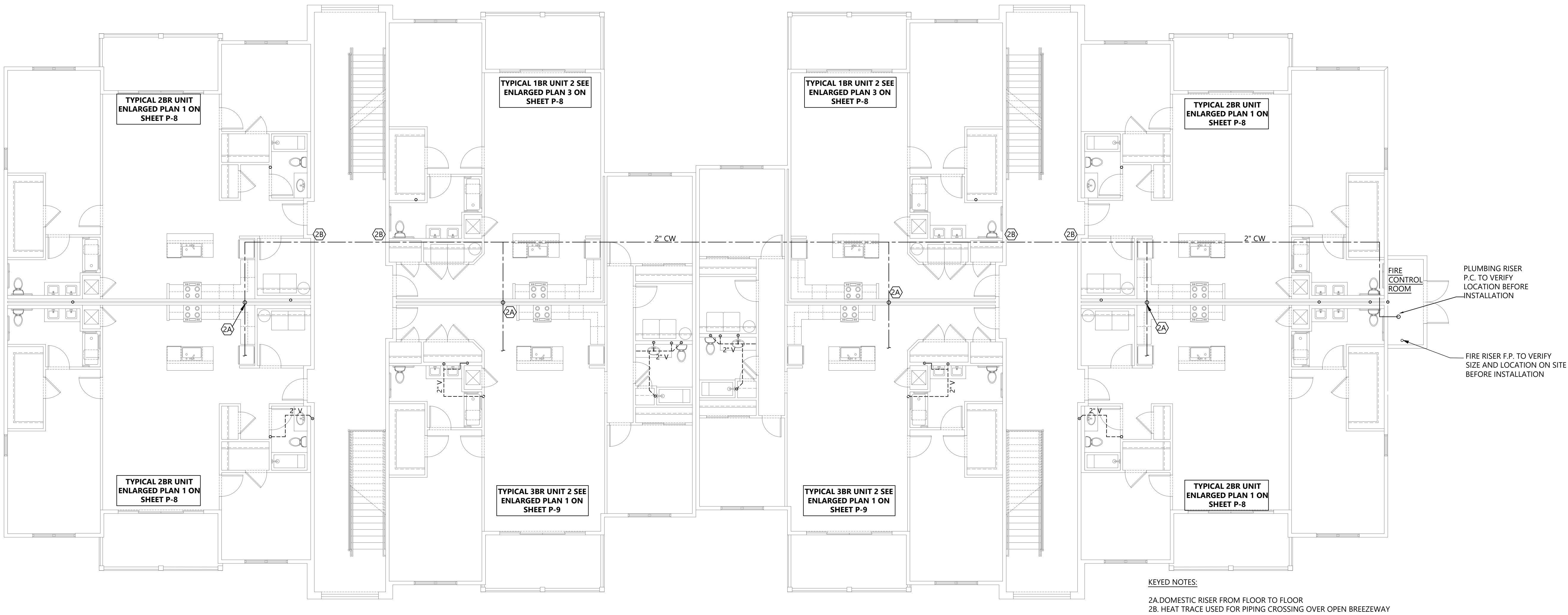
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DWG DESCRIPTION:  
**PLUMBING PLAN  
BLDGS 1 & 6  
BASEMENT**

SHEET #:

**P-1**





**1** PLUMBING SUPPLY PLAN BLDGS 1 & 6 FIRST FLOOR  
1/8"=1'-0"

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

- PRELIMINARY -  
NOT FOR CONSTRUCTION

SIGNATURE:

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Hendersonville, NC 28792  
Luis Graef: President



PROJECT:  
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Hendersonville, North Carolina

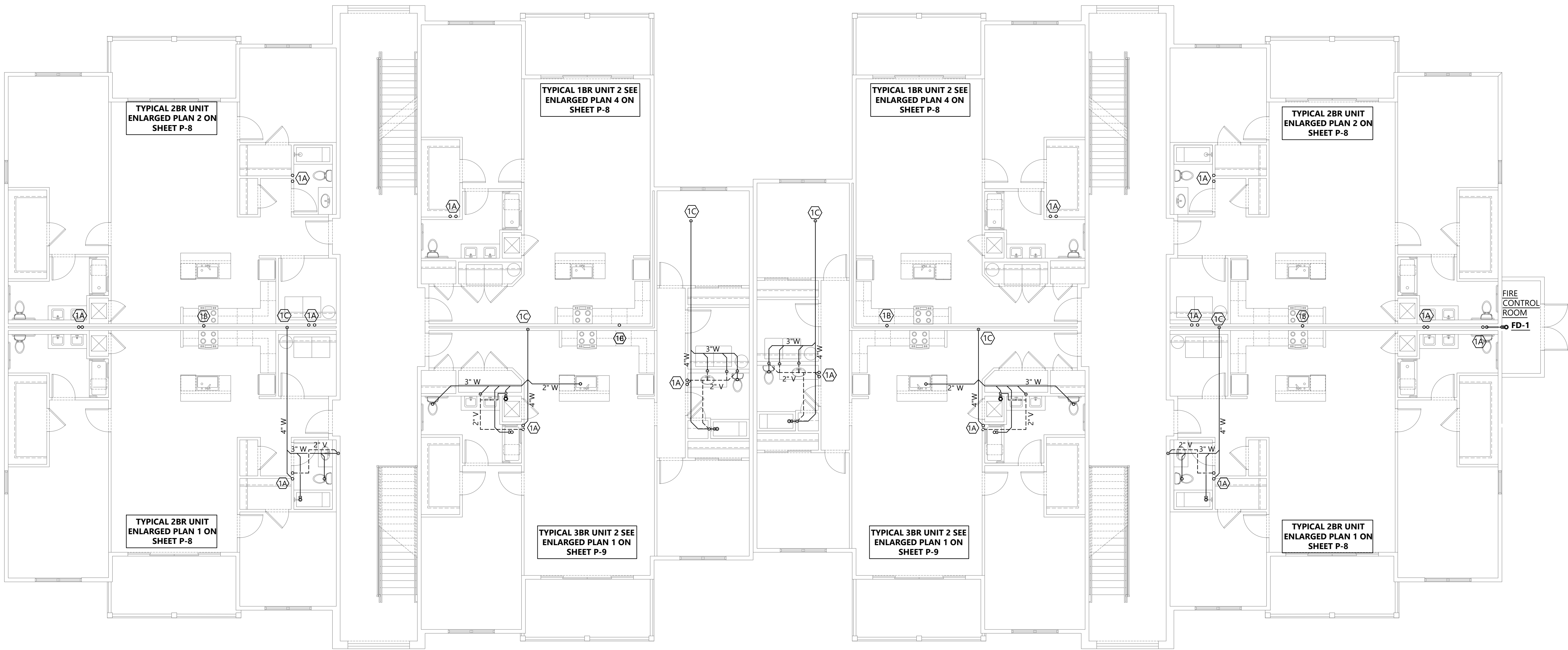
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DWG DESCRIPTION:  
**PLUMBING SUPPLY  
PLAN BLDGS 1 & 6  
FIRST FLOOR**

SHEET #:  
**P-2**





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 1 & 6 FIRST FLOOR

1/8"=1'-0"

- PRELIMINARY -  
NOT FOR CONSTRUCTION

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Hendersonville, NC 28792  
Luis Graef: President



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Hendersonville, North Carolina

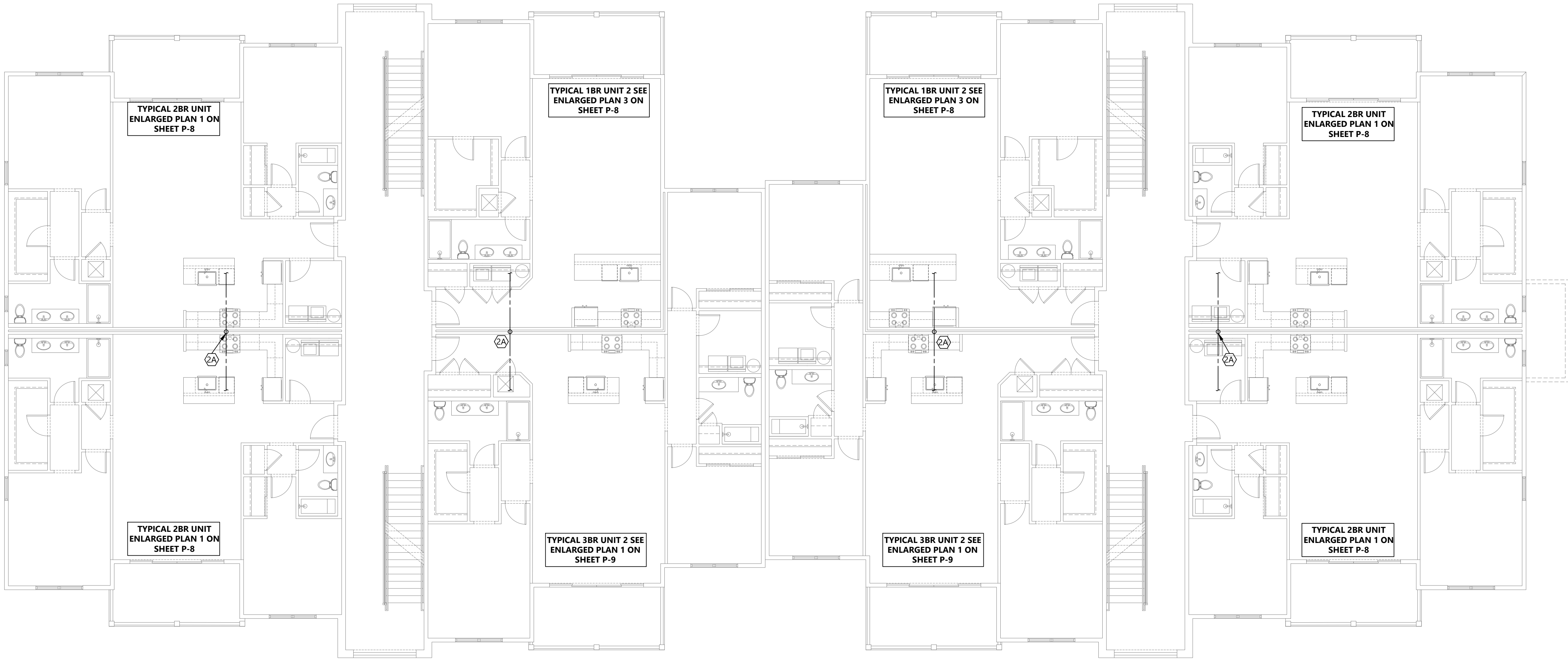
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DWG DESCRIPTION:  
**PLUMBING SANITARY  
PLAN BLDGS 1 & 6  
FIRST FLOOR**

SHEET #:  
**P-3**





KEYED NOTES:  
2A. FLOOR TO FLOOR DOMESTIC RISER

**1 PLUMBING SUPPLY PLAN BLDGS 1 & 6 SECOND FLOOR**  
1/8"=1'-0"

- PRELIMINARY -  
NOT FOR CONSTRUCTION

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341 N Main Street  
Hendersonville, NC 28792  
Luis Graef, President



PROJECT:

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Hendersonville, North Carolina

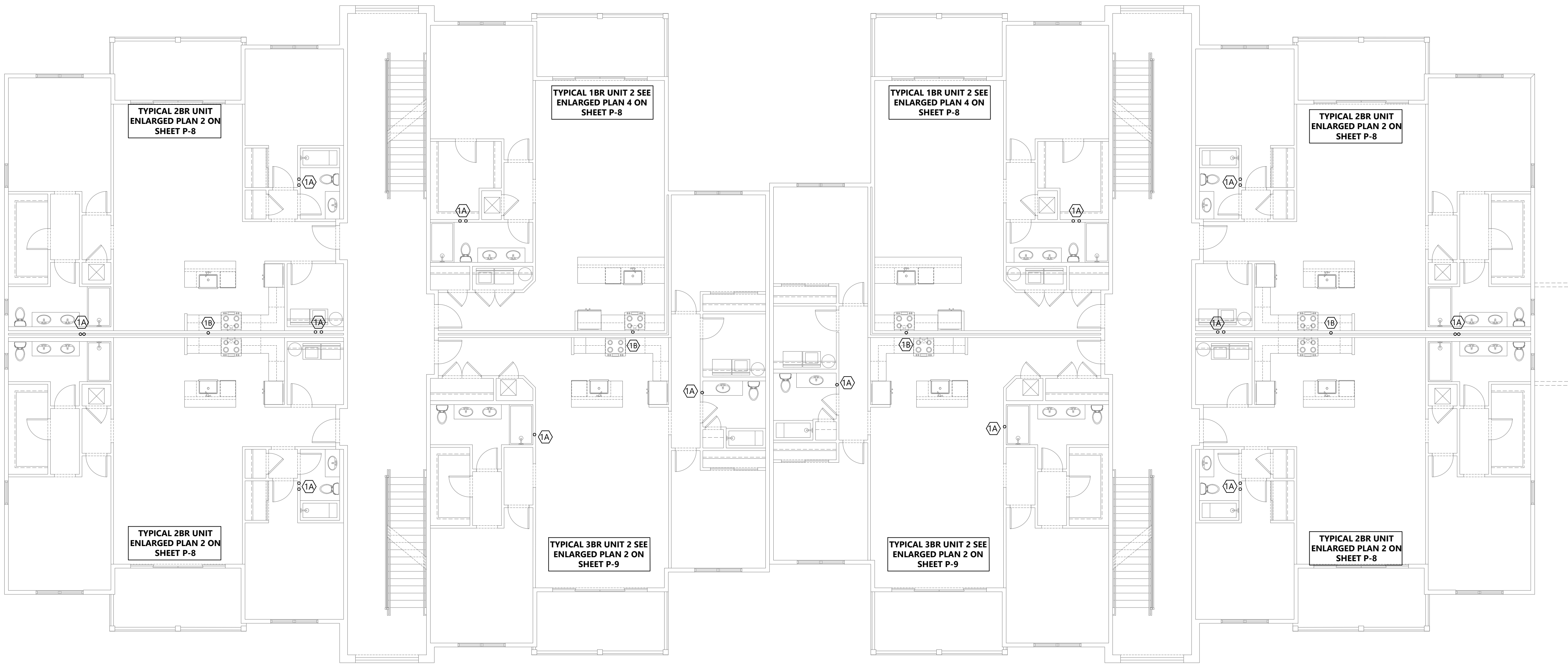
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DWG DESCRIPTION:  
**PLUMBING SUPPLY  
PLAN BLDGS 1 & 6  
SECOND FLOOR**

SHEET #:  
**P-4**





- 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 1 & 6 SECOND FLOOR

1/8"=1'-0"

- PRELIMINARY -  
NOT FOR CONSTRUCTION

SIGNATURE:

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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

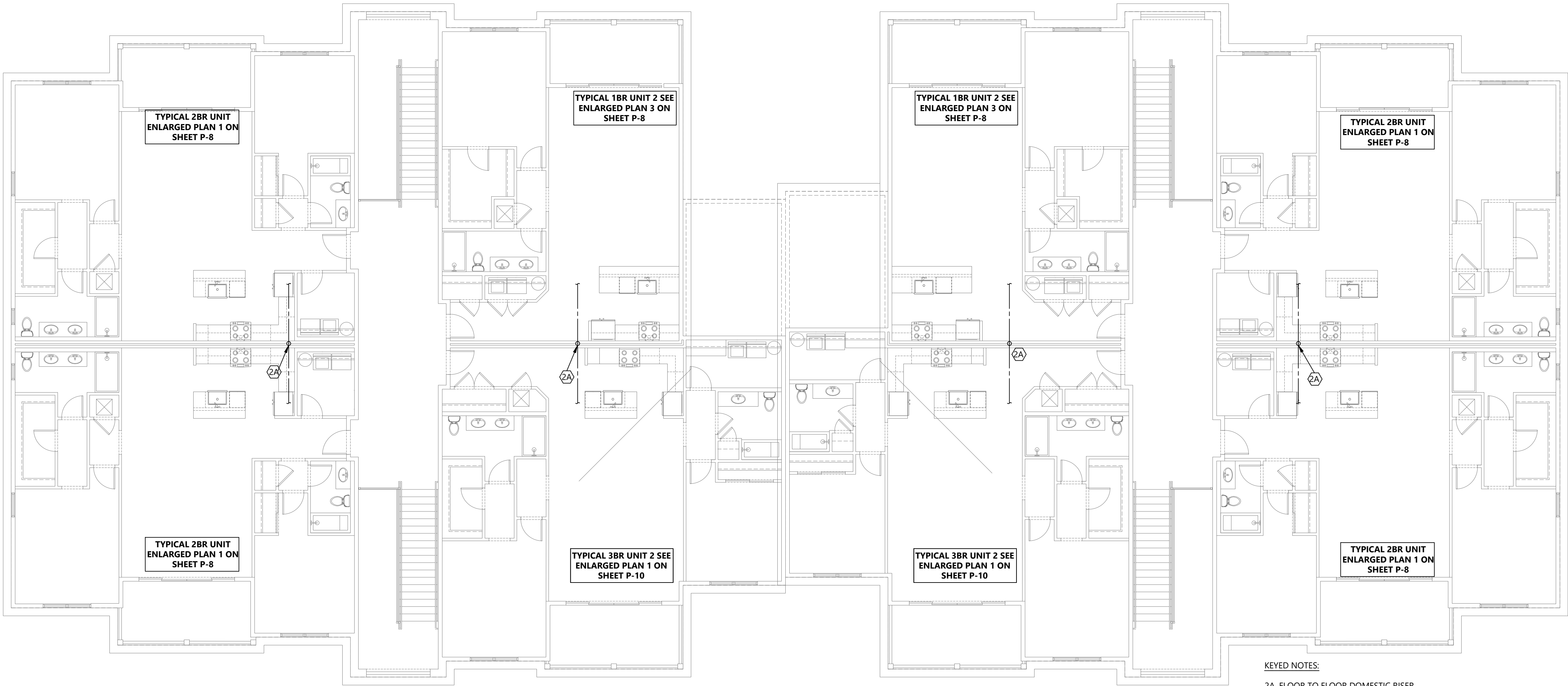
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DWG DESCRIPTION:  
PLUMBING SANITARY  
PLAN BLDGS 1 & 6  
SECOND FLOOR

SHEET #:  
P-5





KEYED NOTES:  
2A. FLOOR TO FLOOR DOMESTIC RISER

**1 PLUMBING SUPPLY PLAN BLDGS 1 & 6 THIRD FLOOR**  
1/8"=1'-0"

- PRELIMINARY -  
NOT FOR CONSTRUCTION

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PROJECT:  
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Hendersonville, North Carolina

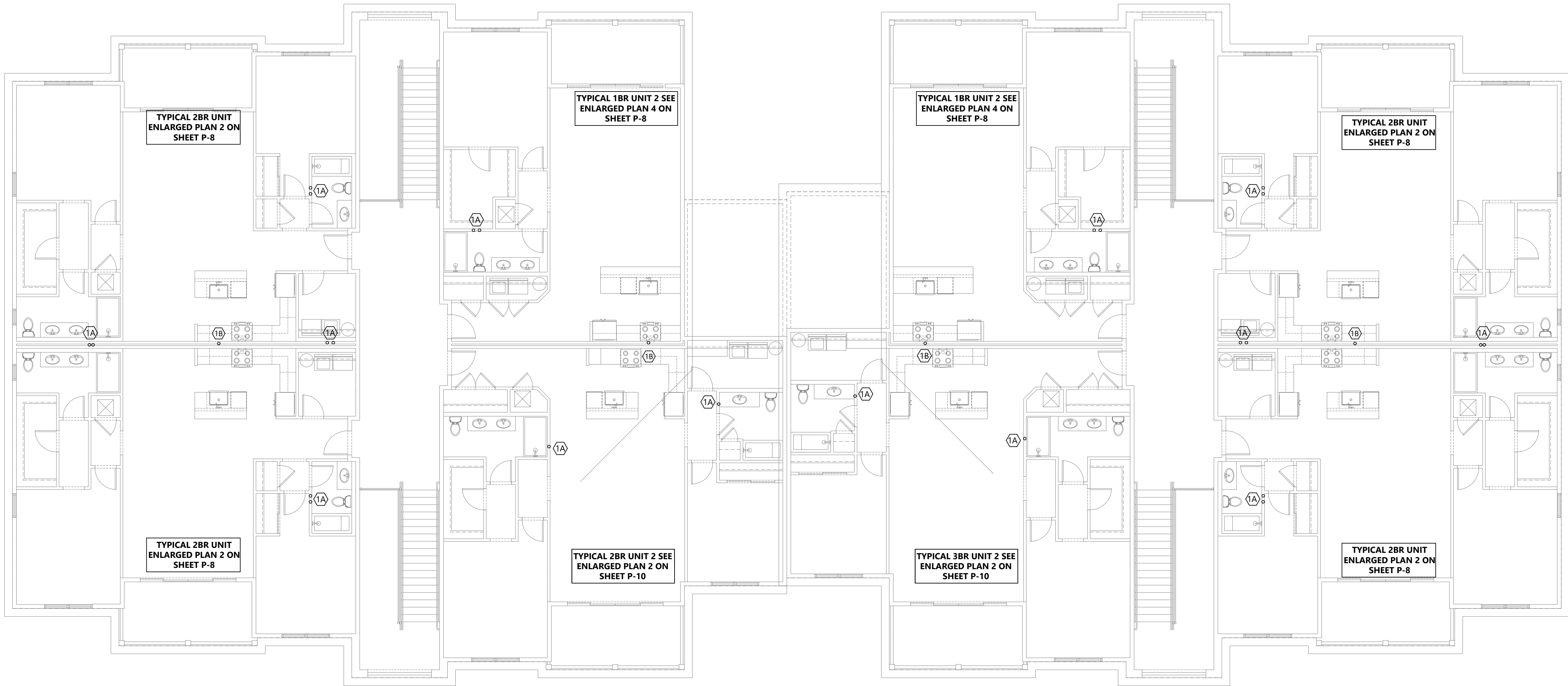
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DWG DESCRIPTION:  
**PLUMBING SUPPLY  
PLAN BLDGS 1 & 6  
THIRD FLOOR**

SHEET #:  
**P-6**





- 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 1 & 6 THIRD FLOOR**  
1/8"=1'-0"

- PRELIMINARY -  
NOT FOR CONSTRUCTION

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Luis Graef: President



PROJECT:  
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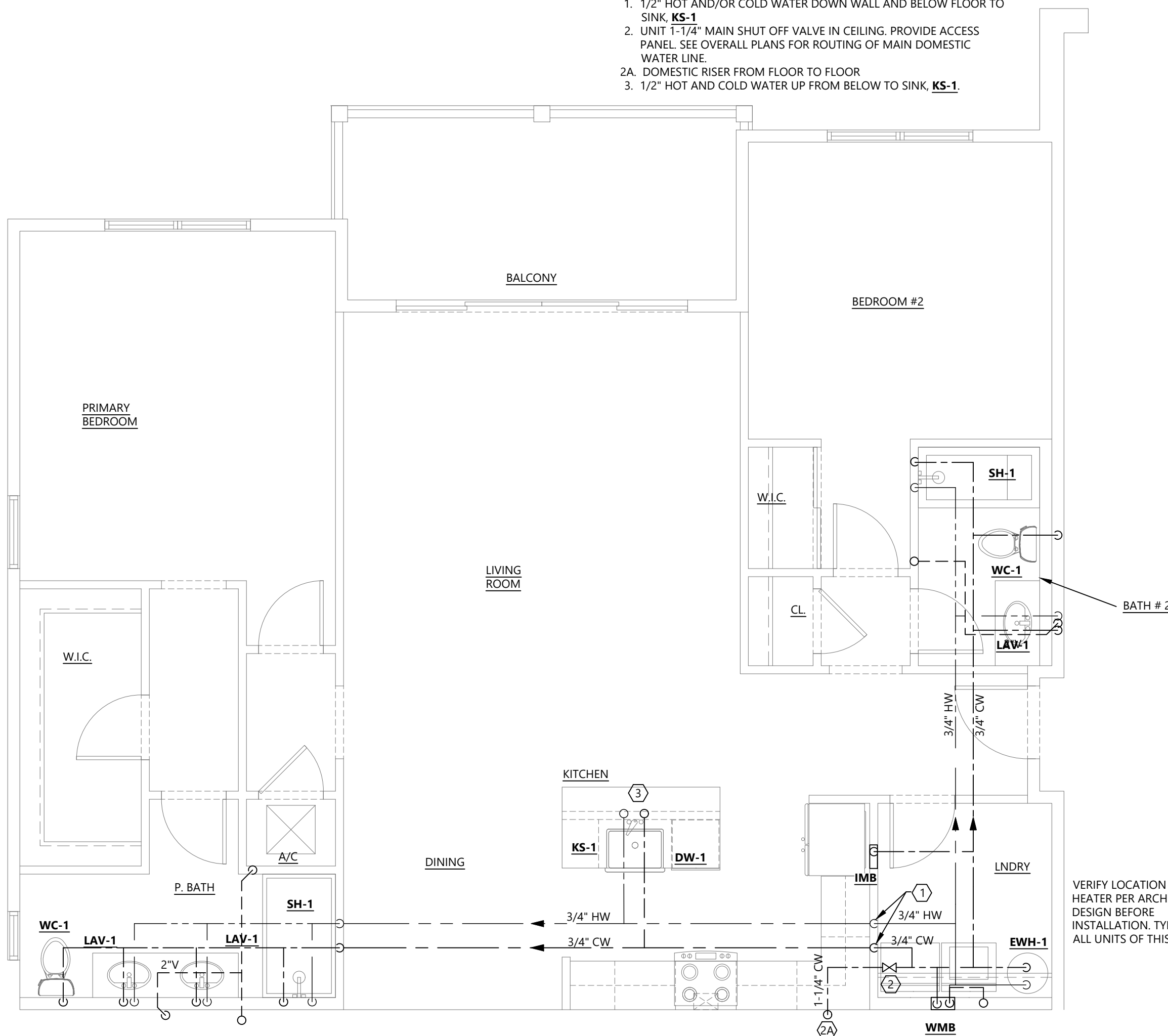
DWG DESCRIPTION:  
**PLUMBING SANITARY  
PLAN BLDGS 1 & 6  
THIRD FLOOR**

SHEET #:  
**P-7**



## KEYED NOTES:

- 1/2" HOT AND/OR COLD WATER DOWN WALL AND BELOW FLOOR TO SINK, **KS-1**
- 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**.

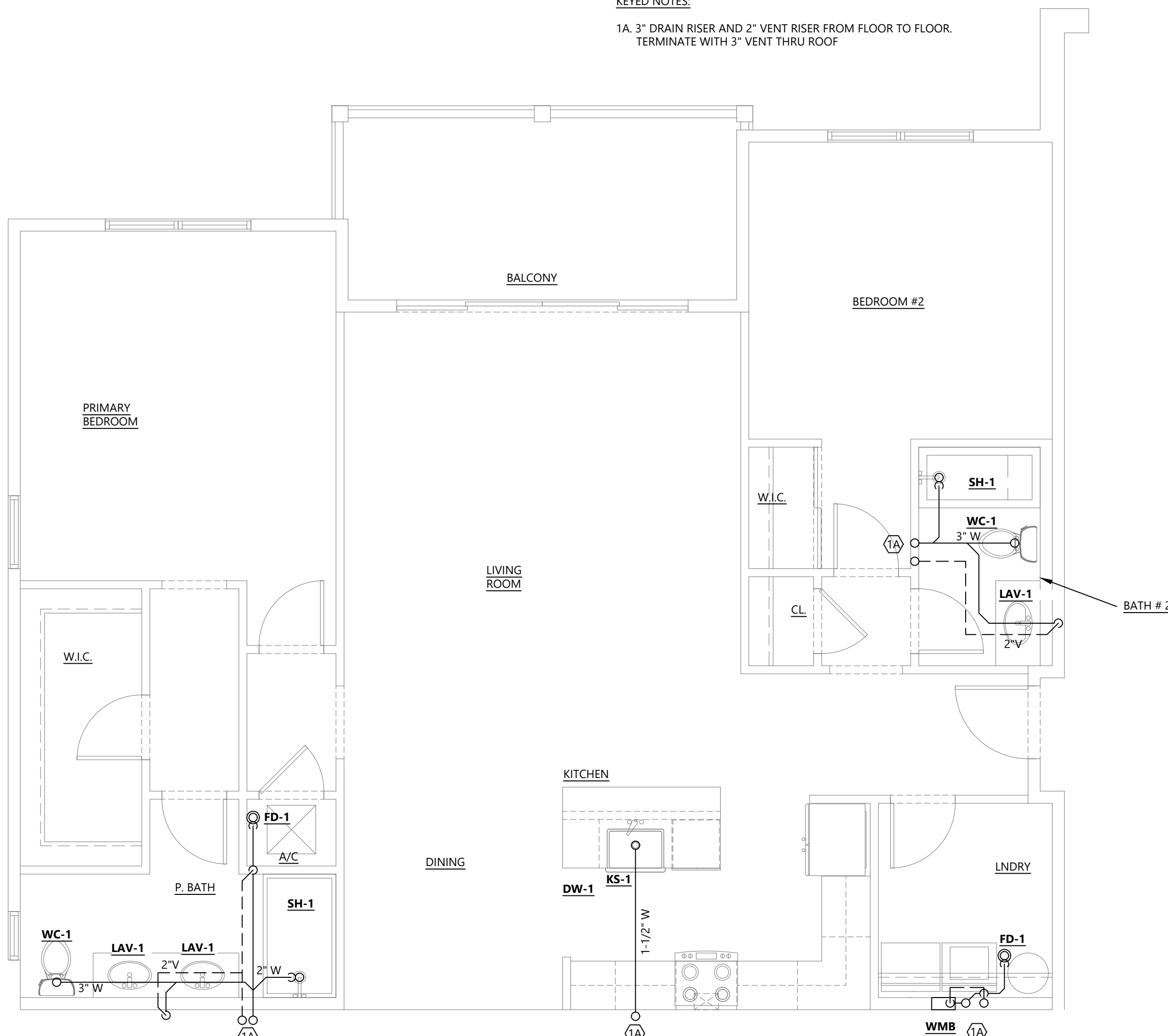


1 TYPICAL 2BR UNIT PLUMBING SUPPLY PLAN

1/4"=1'-0"

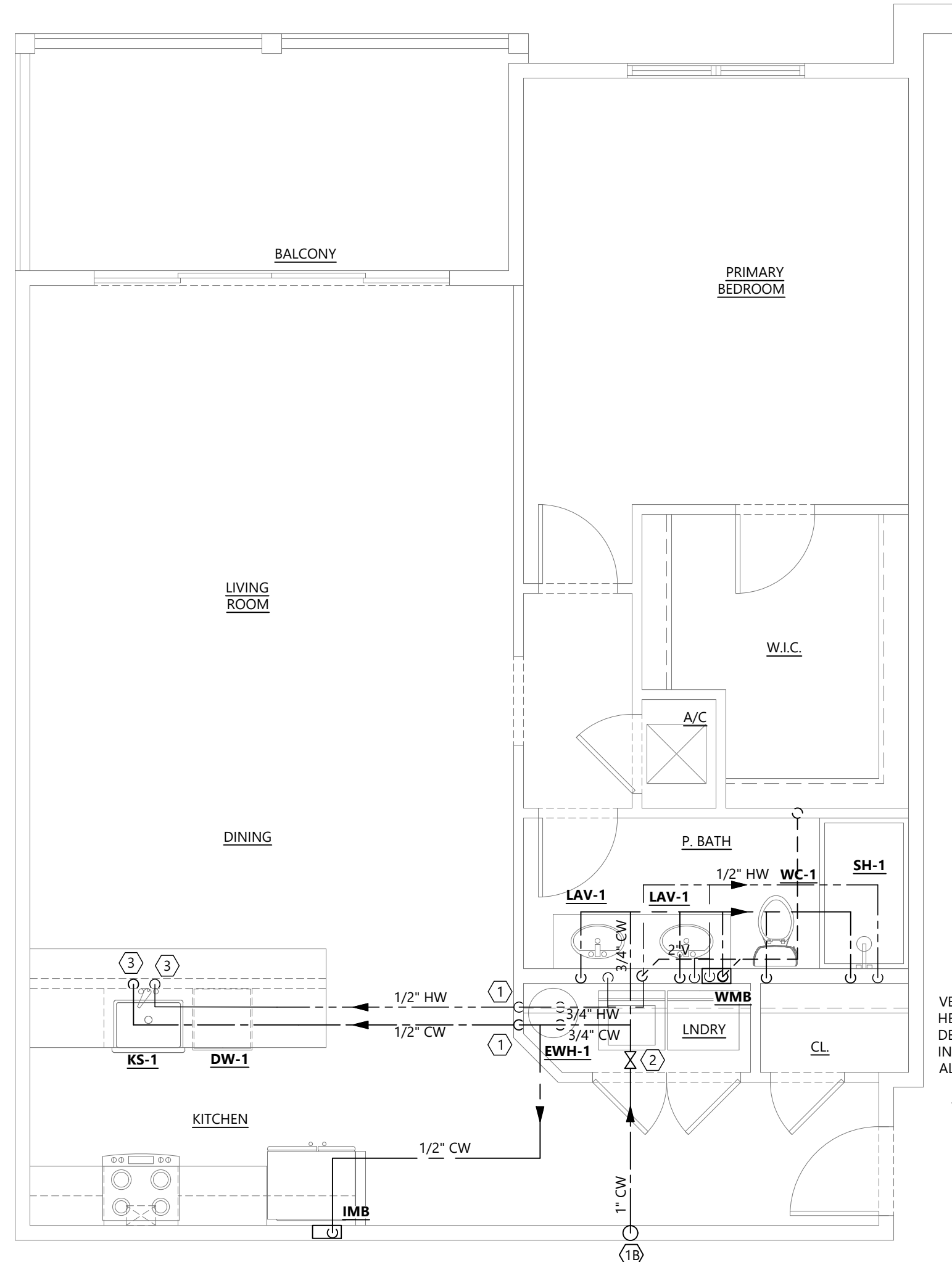
## KEYED NOTES:

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



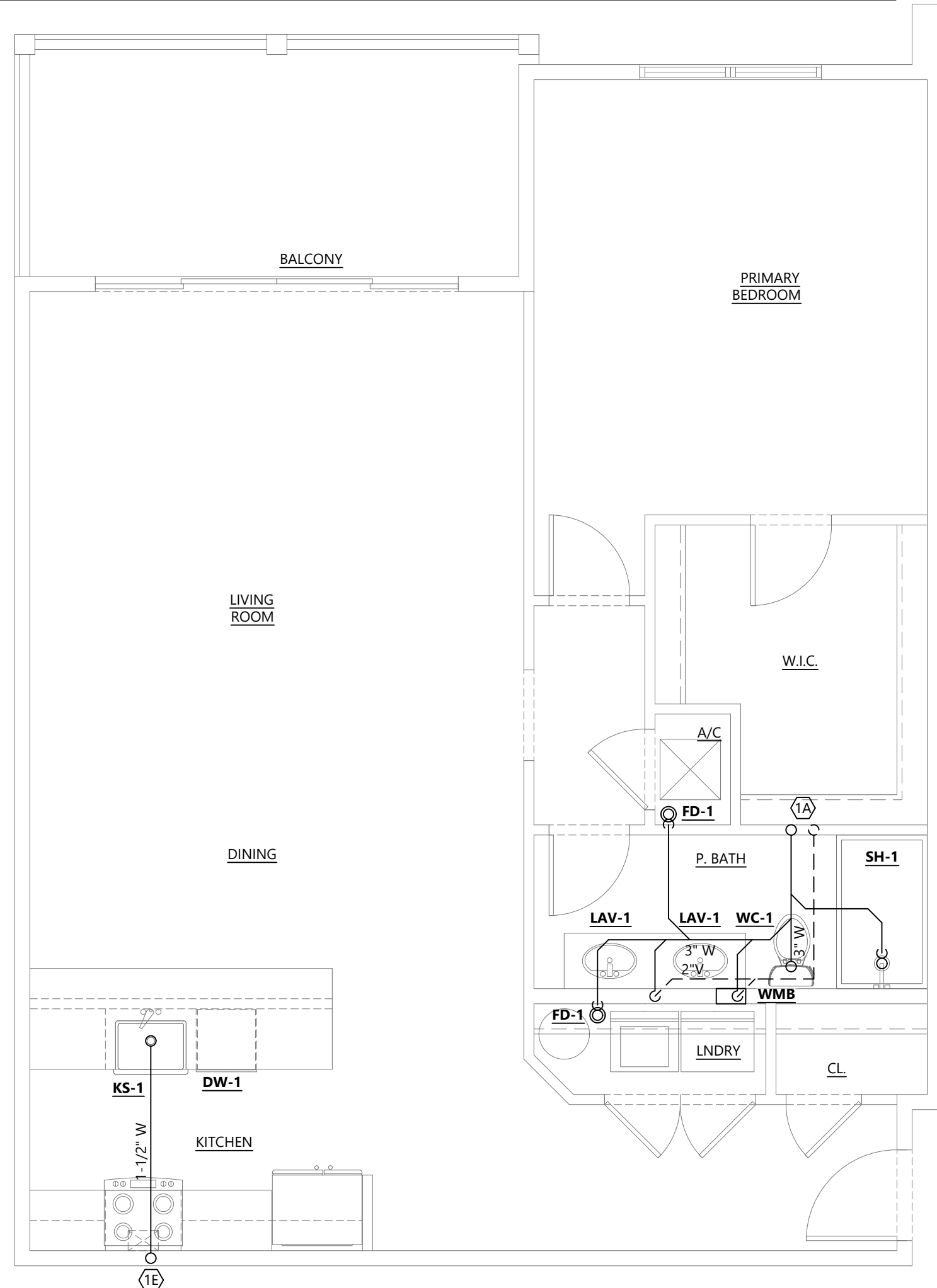
2 TYPICAL 2BR UNIT PLUMBING SANITARY PLAN

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.

- PRELIMINARY -  
NOT FOR CONSTRUCTION

SIGNATURE:

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Luis Graef: President



PROJECT:

The Orchards at Naples Road  
Apartment Complex  
Hendersonville, North Carolina

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PROJECT #: 22105  
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DWG DESCRIPTION:  
**ENLARGED UNIT  
PLANS**

SHEET #:  
**P-8**



- PRELIMINARY -  
NOT FOR CONSTRUCTION

SIGNATURE:

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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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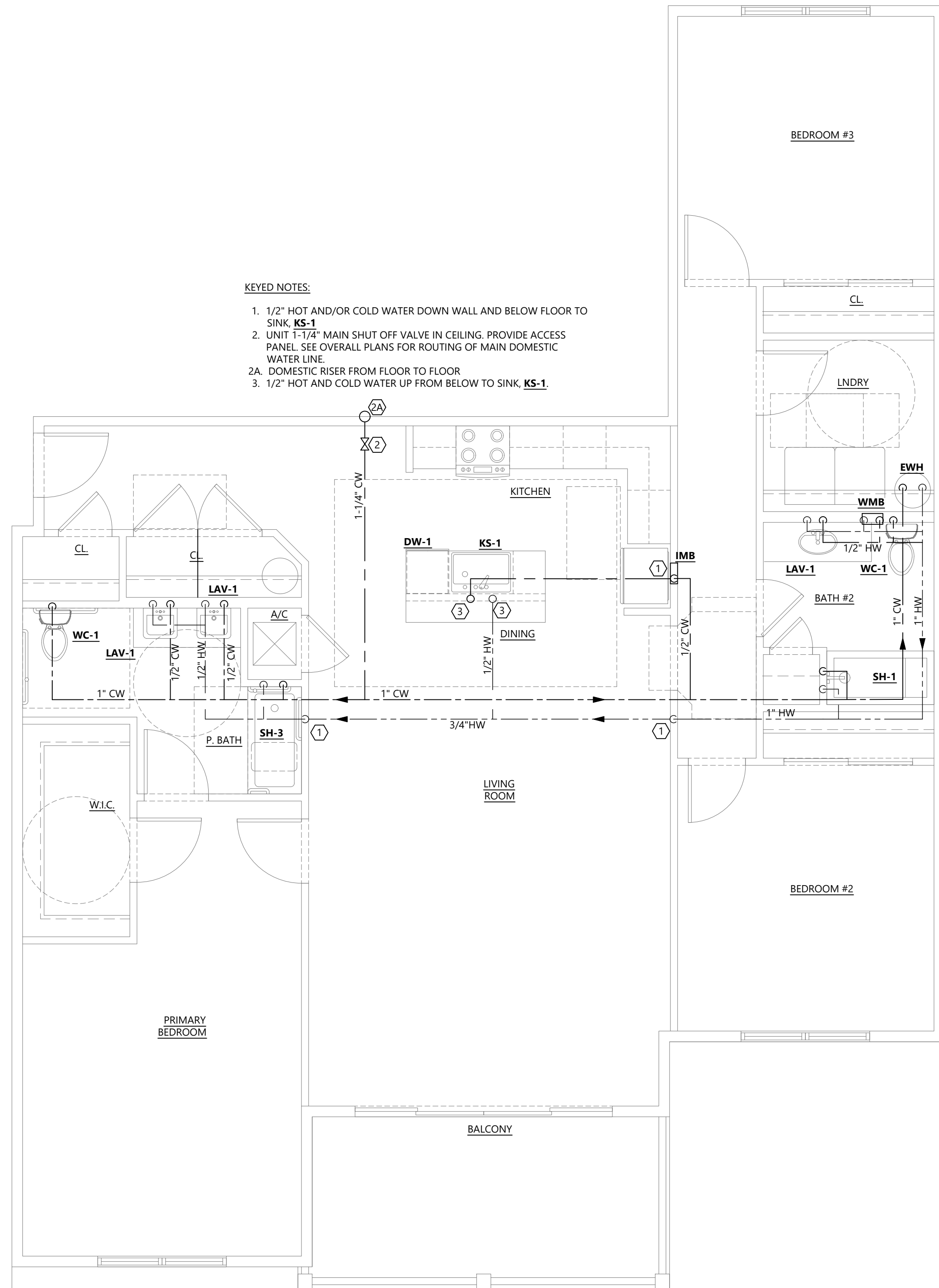
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ENLARGED UNIT  
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**P-9**

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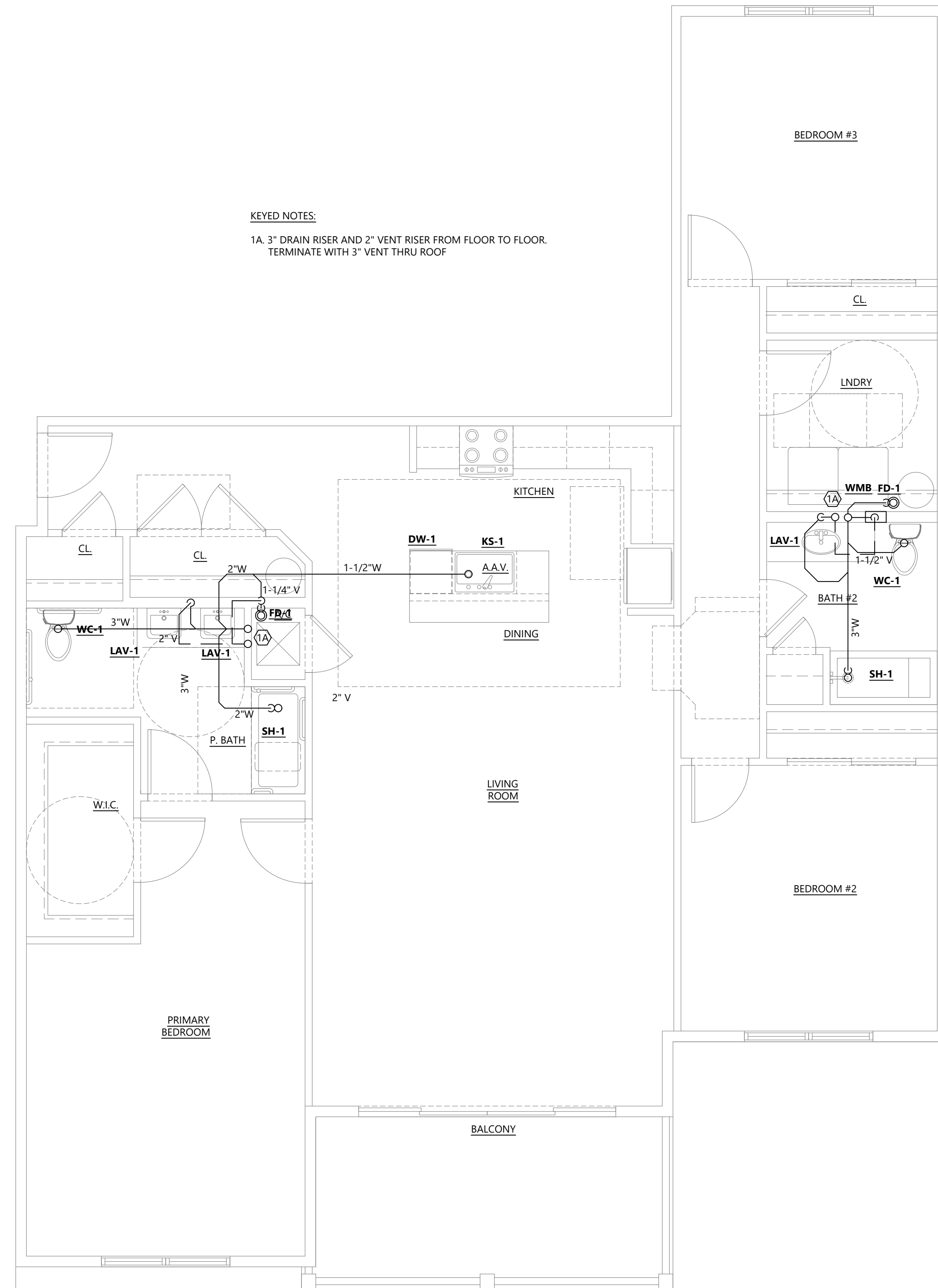


KEYED NOTES:

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

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

**1** TYPICAL 3BR 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

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



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DWG DESCRIPTION:  
**ENLARGED UNIT  
PLANS**

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**P-10**

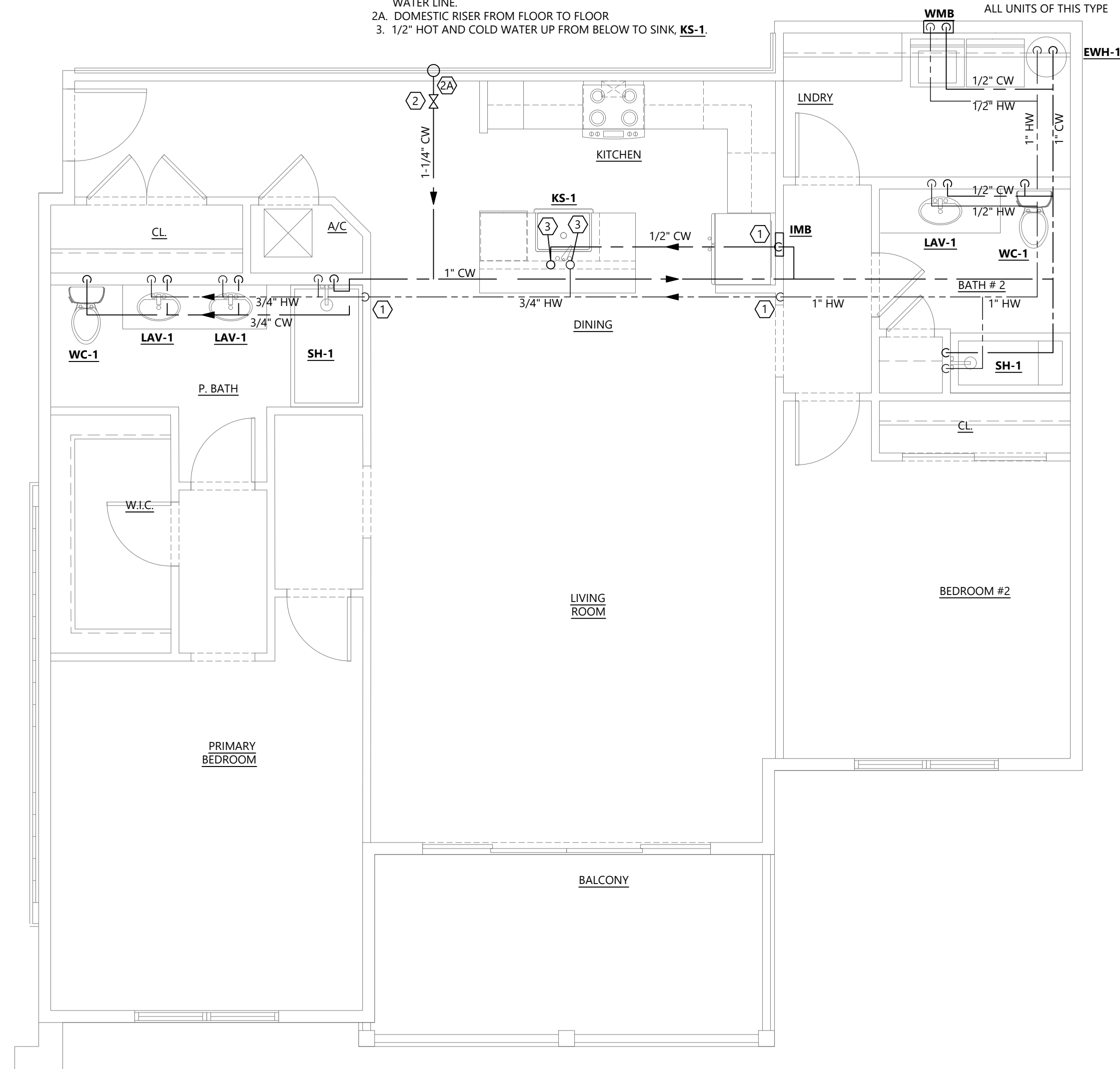
KEYED NOTES:

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

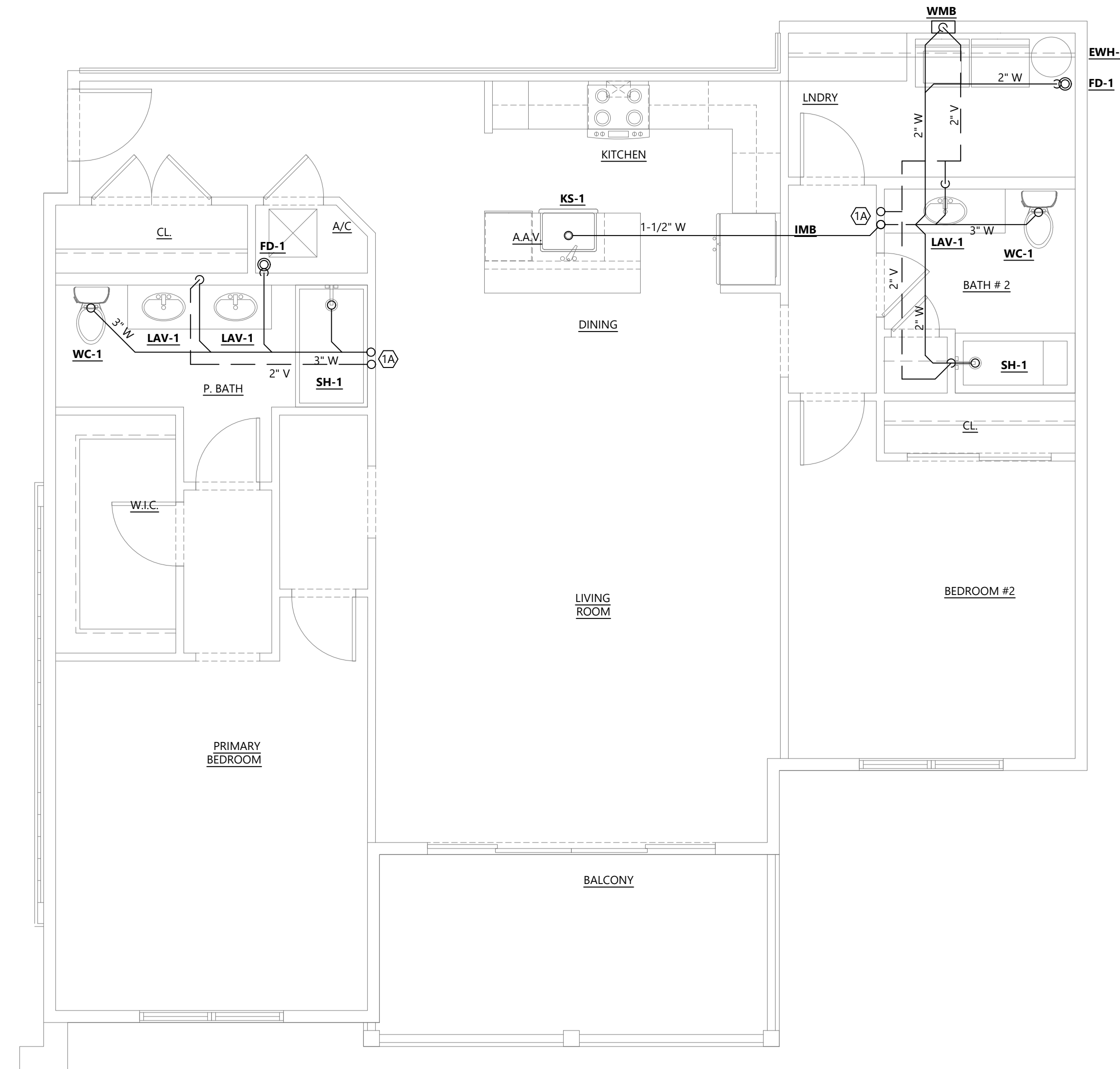
KEYED NOTES:

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**.

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



**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"



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 |

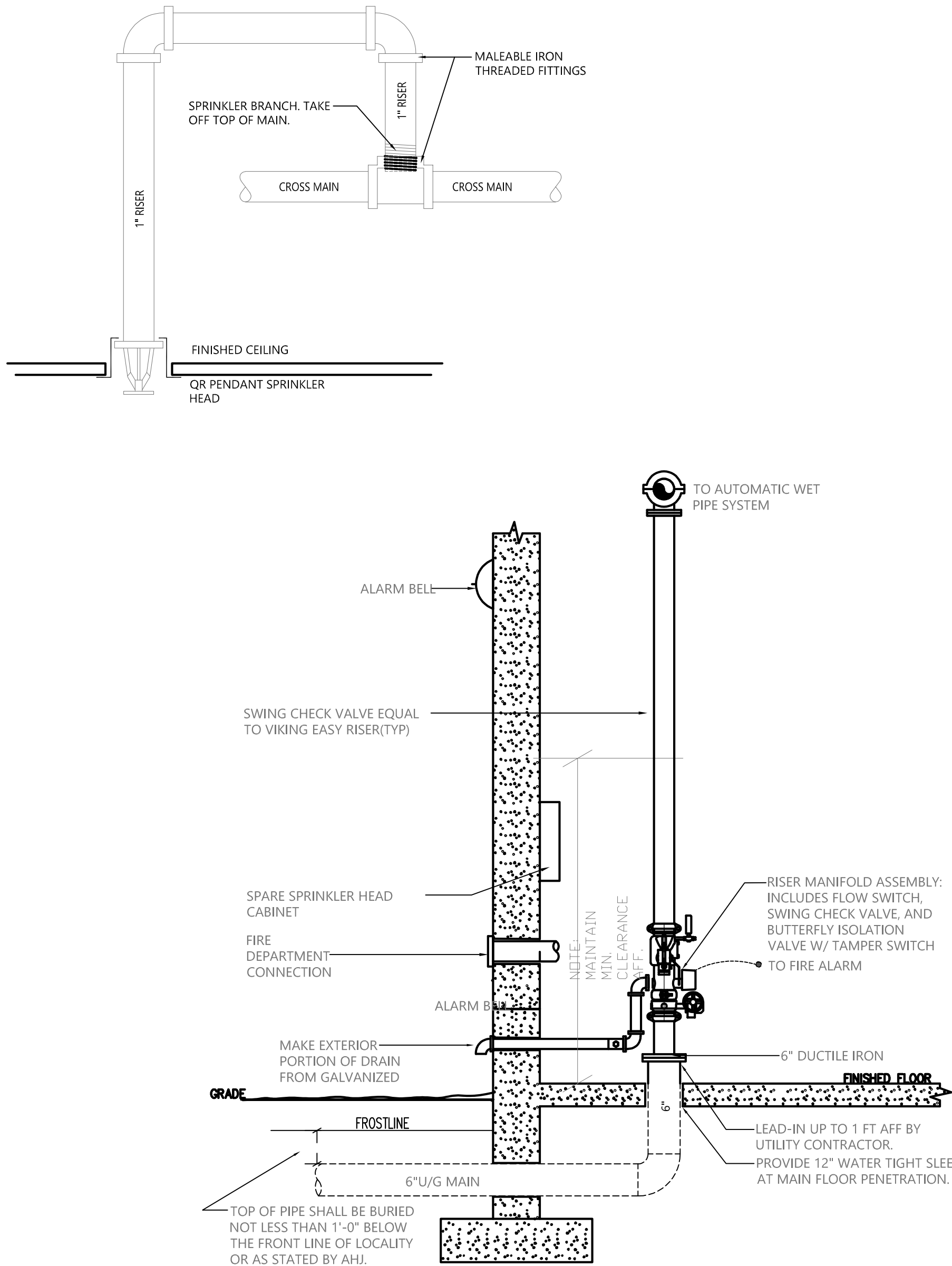
- SPRINKLER CONTRACTOR SHALL VERIFY FINISH OF ESCUTCHEON/FACEPLATE WITH ARCHITECT/OWNER.
- SPRINKLER HEADS SHALL MATCH OWNER STANDARDS.
- ESCUTCHEONS SHALL BE COMPATIBLE WITH MAKE AND MODEL OF HEAD TYPES.
- ESCUTCHEONS SHALL BE INSTALLED TO ACCOUNT/ADJUST FOR CEILING TILE DEFLECTION.

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. SPRINKLERS 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 ROUTES, HANGER LOCATIONS AND PLACEMENT OF SPRINKLERS. THESE DRAWINGS SHALL INDICATE REMOTE AREAS AND DENSITIES ALONG WITH SPACING OF THE SPRINKLER HEADS WITHIN THE BUILDING. THE DRAWINGS SHALL CROSS REFERENCE NODES AND PIPES USED TO PREPARE HYDRAULIC CALCULATIONS. THE HYDRAULIC CALCULATIONS SHALL BE PERFORMED AND BASED ON THE PREPARED DRAWINGS BY THE FIRE PROTECTION CONTRACTOR. THE HYDRAULIC CALCULATIONS SHALL PROVE THE WATER PRESSURES AND FLOWS AT THE SITE ARE SUFFICIENT TO MEET SPRINKLER REQUIREMENTS.
- 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

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

DWG DESCRIPTION :  
FIRE PROTECTION  
COVER SHEET  
BLDGS 1 & 6

SHEET #:  
**FP-00**