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FIRE PUMP SYSTEM

- FIRE PUMP - EQUAL TO PEERLESS MODEL 5AEF8, 750 GPM @ 70 PSI BOOST, WITH 50 HP, 208 VOLT, 3 PHASE MOTOR.
- JOCKEY PUMP - EQUAL TO GRUNDFOS MODEL CR 3-7, 10 GPM, 1.5 HP, 208 VOLT, 3 PHASE.
- FIRE PUMP CONTROLLER - EQUAL TO FIRETROL MODEL FTA1930 WITH SOFT START/STOP.
- JOCKEY PUMP CONTROLLER - EQUAL TO FIRETROL MODEL FTA570F-AG.
- PROVIDE WITH AUTOMATIC TRANSFER SWITCH.
- SUCTION CONTROL VALVE - 6" CLAVAL.
- PROVIDE ALL ACCESSORIES FOR A COMPLETE, OPERATIONAL, AND CODE-COMPLIANT SYSTEM. INCLUDING, BUT NOT LIMITED TO SUCTION CONTROL VALVE, AIR RELEASE VALVE, CASING RELIEF VALVE, GAUGES, HOSE HEAD VALVES, VALVES, DRAIN VALVES, SENSING LINES, FIRE PUMP TEST HEADER, ETC.

FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.

COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.

REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.

DELEGATED FIRE SUPPRESSION DESIGN

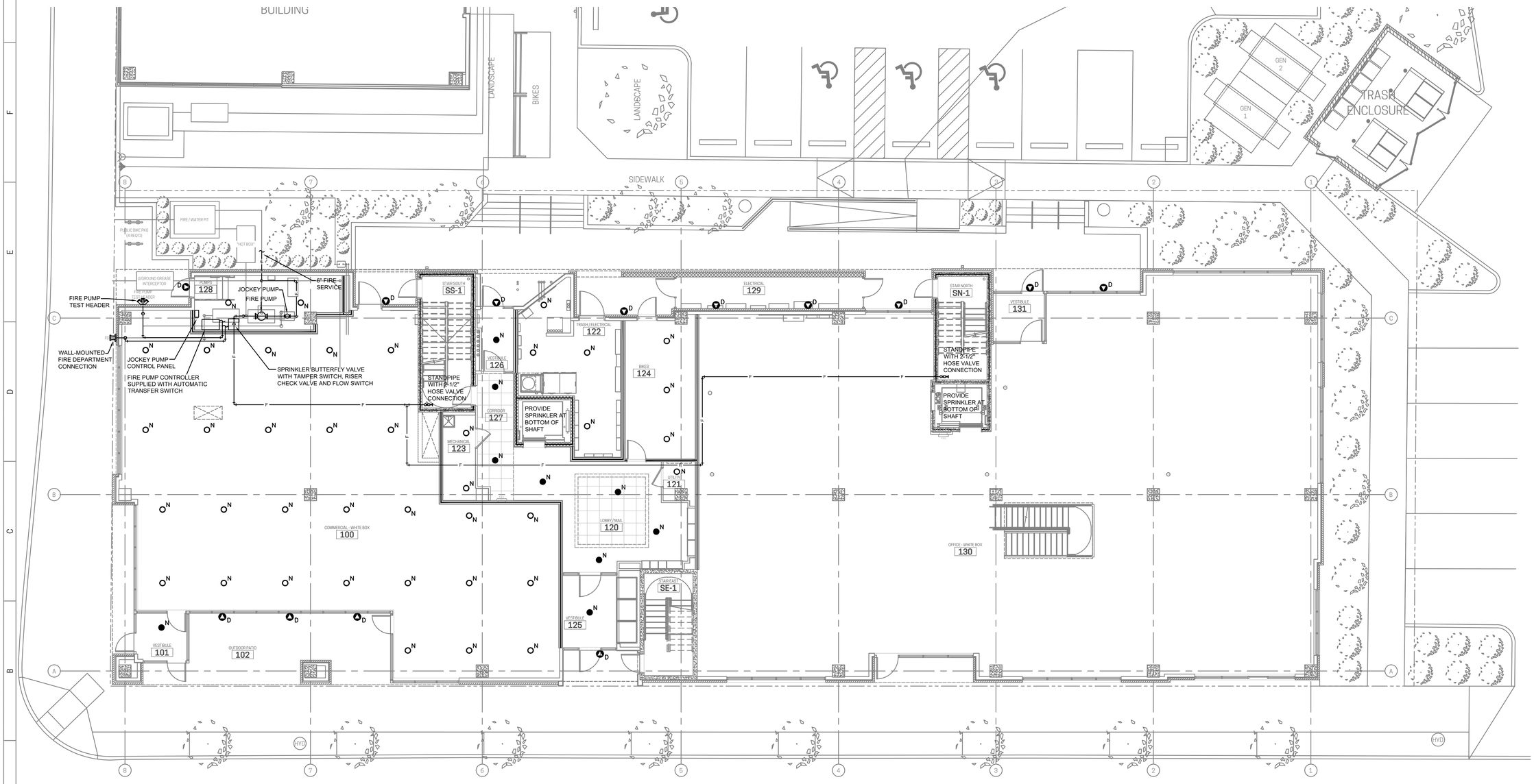
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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
○N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
●N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
▼D	DRY CONCEALED SIDEWALL SPRINKLER
⊙I	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP100 FIRE PROTECTION FIRST FLOOR PLAN

1/8"=1'-0"

N

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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PR-10535

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Drawing Title
FIRE PROTECTION FIRST FLOOR PLAN

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FIRE PROTECTION GENERAL NOTES

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DELEGATED FIRE SUPPRESSION DESIGN

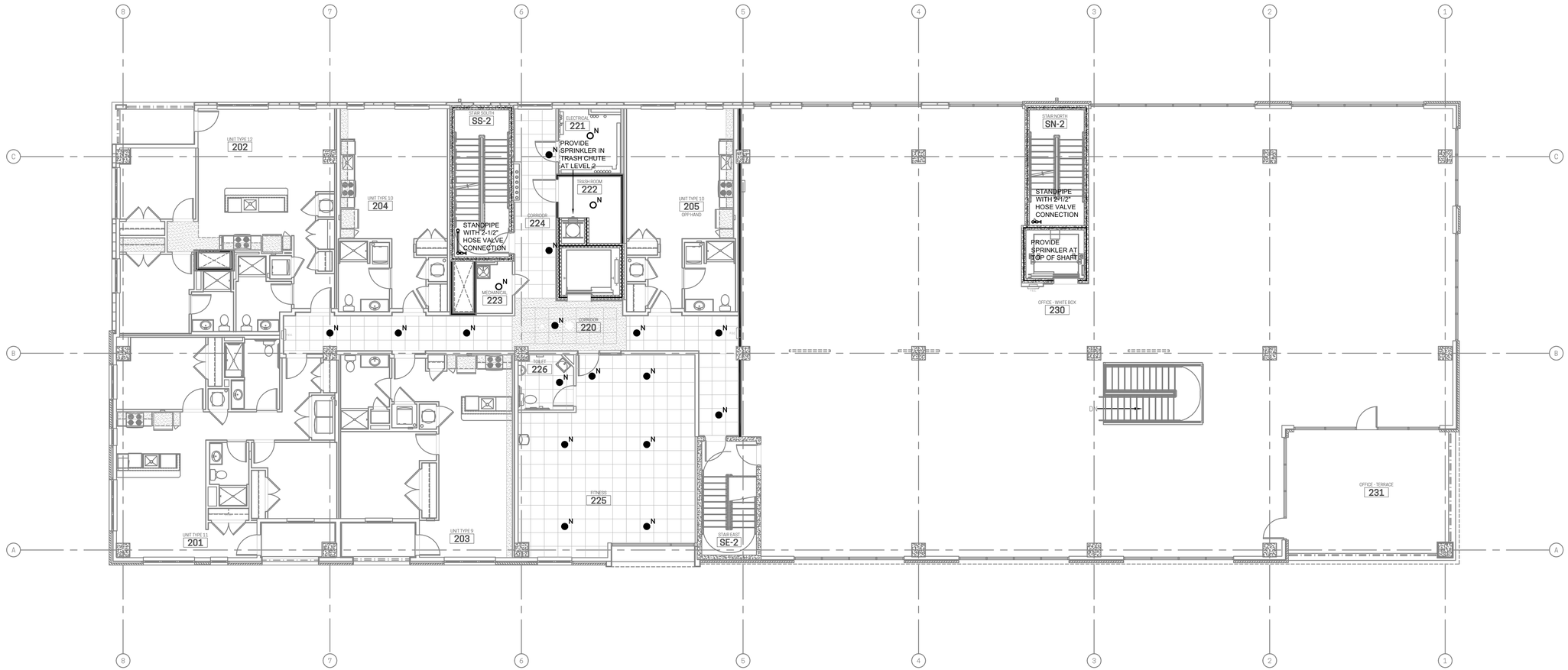
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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
D	DRY CONCEALED SIDEWALL SPRINKLER
	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP101 **FIRE PROTECTION SECOND FLOOR PLAN**

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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Drawing Title
FIRE PROTECTION SECOND FLOOR PLAN

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FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.

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DELEGATED FIRE SUPPRESSION DESIGN

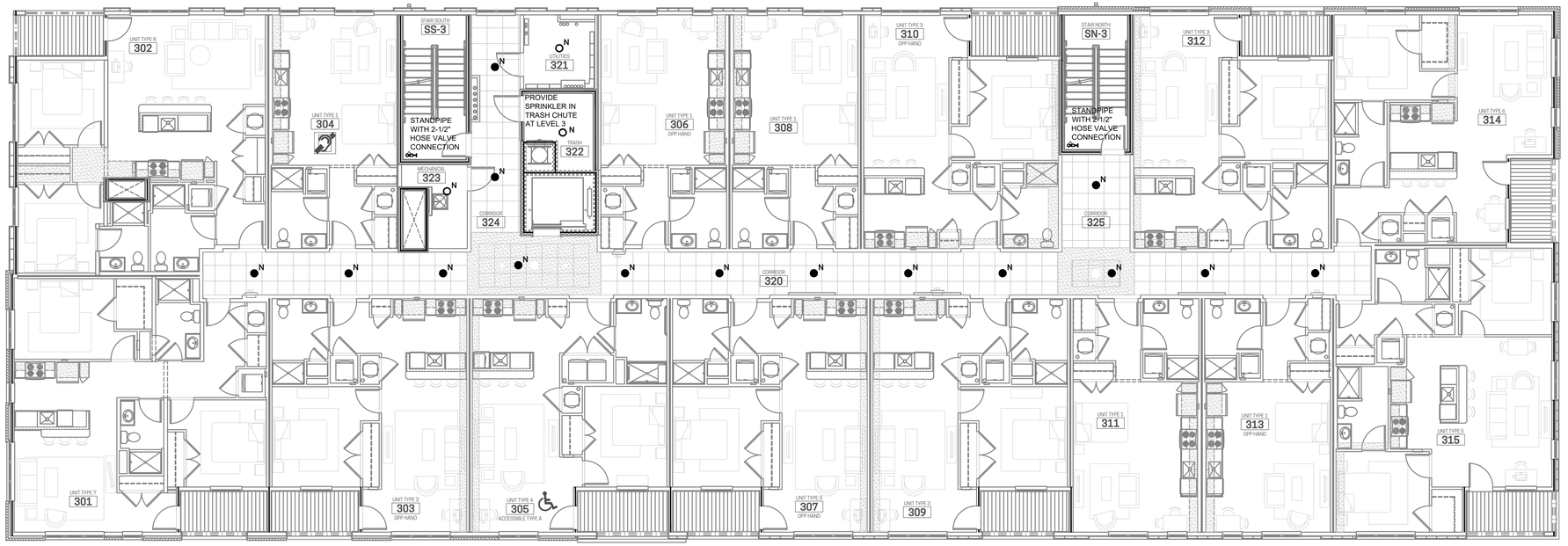
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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
D	DRY CONCEALED SIDEWALL SPRINKLER
	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP102 FIRE PROTECTION THIRD FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS
NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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Drawing Title
FIRE PROTECTION THIRD FLOOR PLAN

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FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.

COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.

REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.

DELEGATED FIRE SUPPRESSION DESIGN

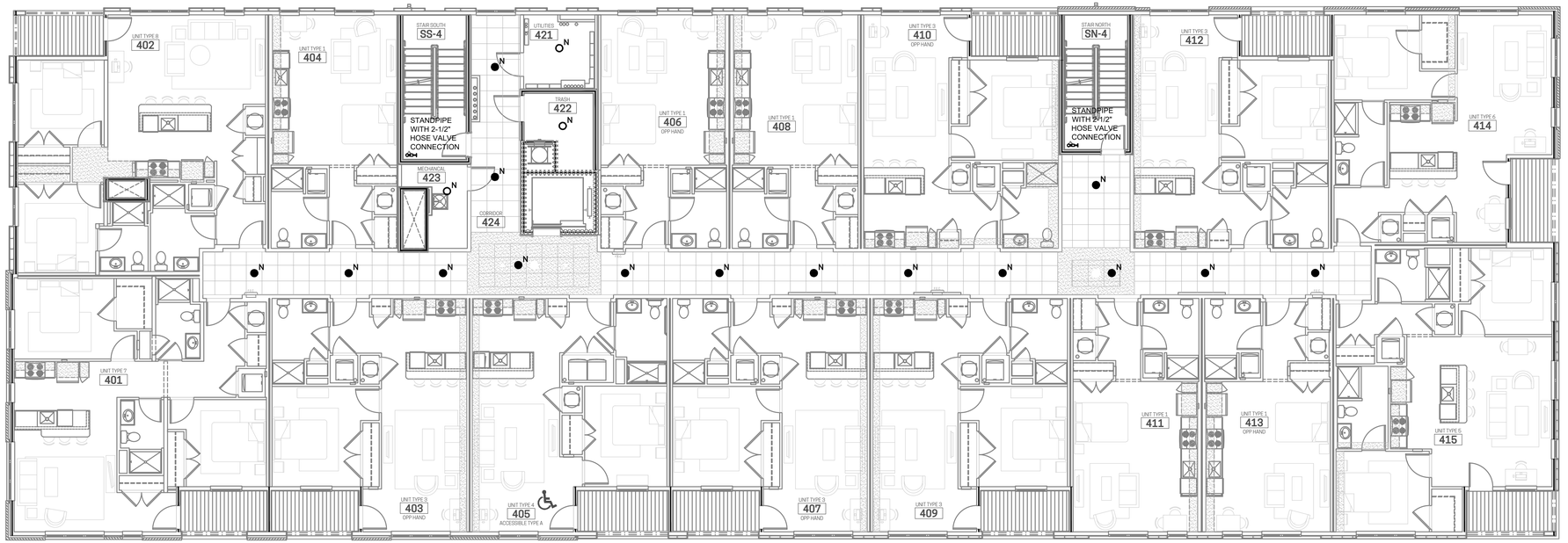
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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
D	DRY CONCEALED SIDEWALL SPRINKLER
	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP103 FIRE PROTECTION FOURTH FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS
NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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Drawing Title
FIRE PROTECTION FOURTH FLOOR PLAN

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FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.

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DELEGATED FIRE SUPPRESSION DESIGN

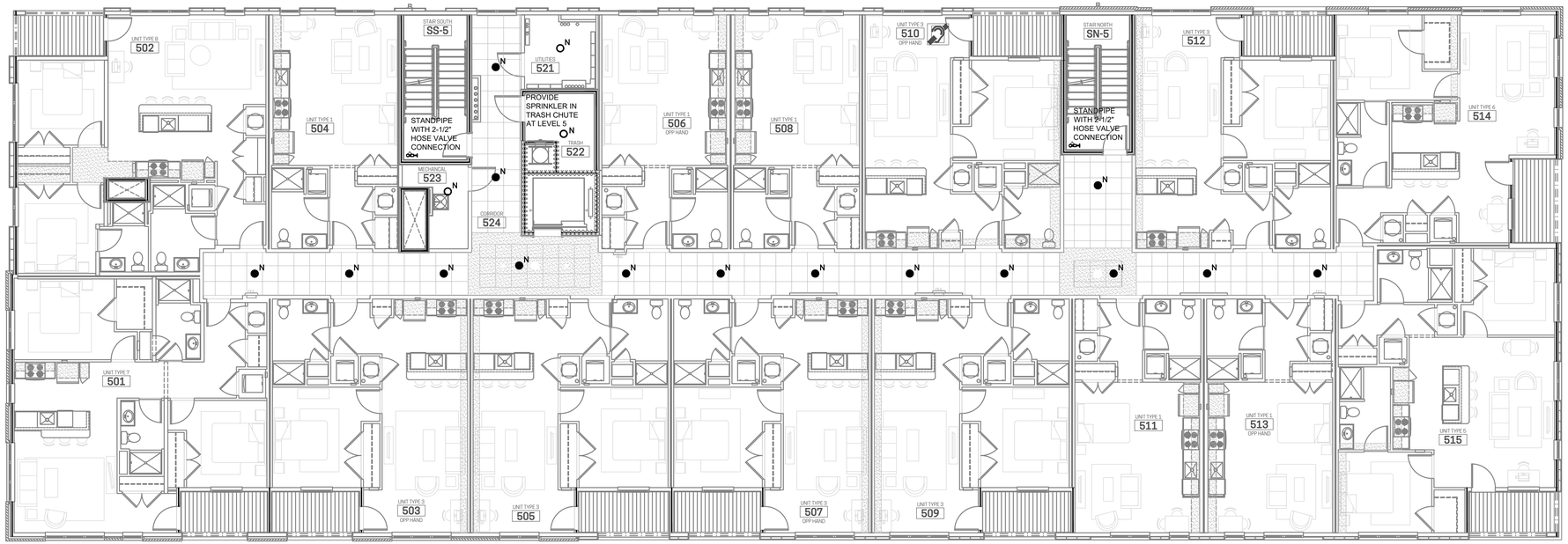
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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
D	DRY CONCEALED SIDEWALL SPRINKLER
	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP104 FIRE PROTECTION FIFTH FLOOR PLAN

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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Drawing Title
FIRE PROTECTION FIFTH FLOOR PLAN

Document No.
FP104

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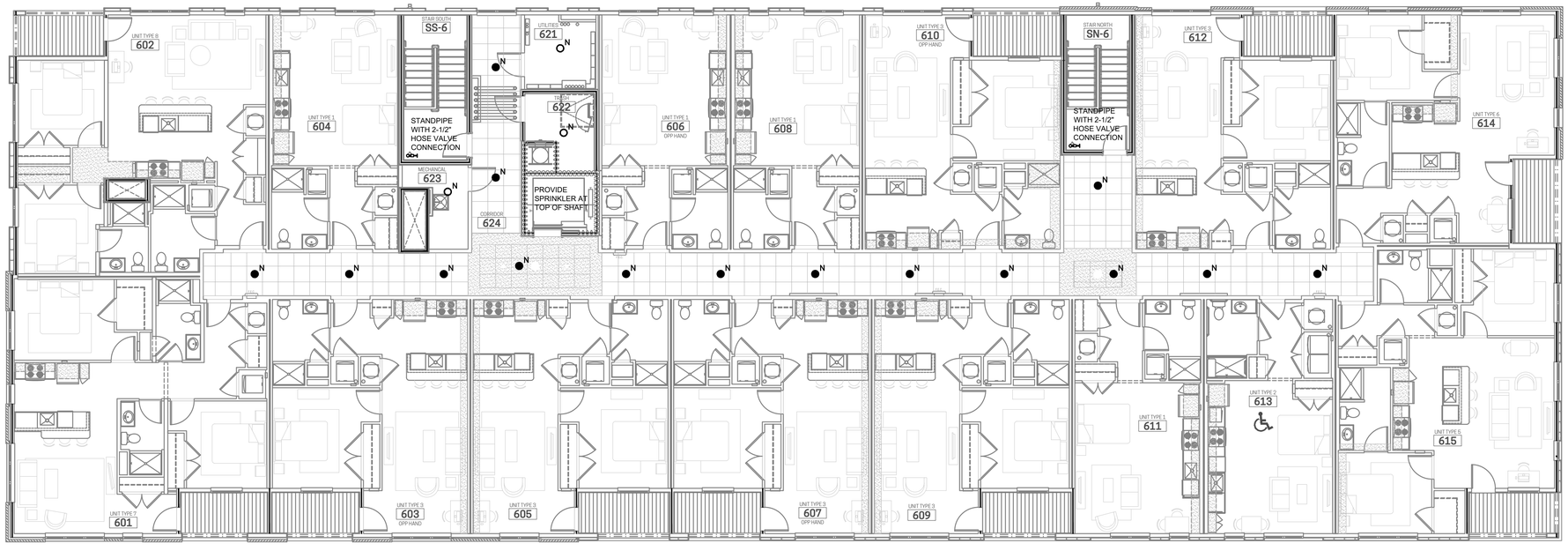
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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
D	DRY CONCEALED SIDEWALL SPRINKLER
	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP105 **FIRE PROTECTION SIXTH FLOOR PLAN**

1/8"=1'-0"

PARAMOUNT WORKS

NWC KEMPER LANE & E. McMILLAN ST
2505 KEMPER LN
CINCINNATI, OH 45206
WALNUT HILLS NEIGHBORHOOD

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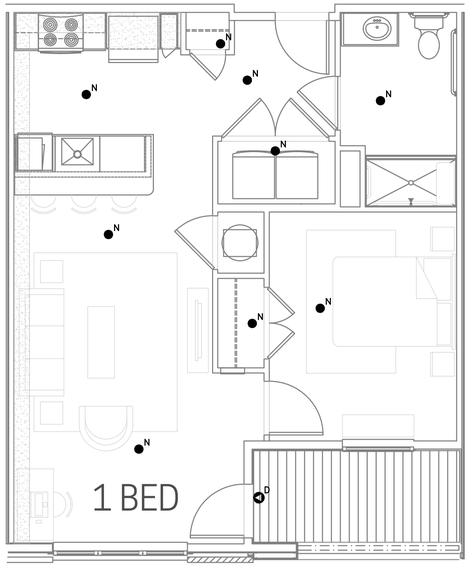
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FIRE PROTECTION SIXTH FLOOR PLAN

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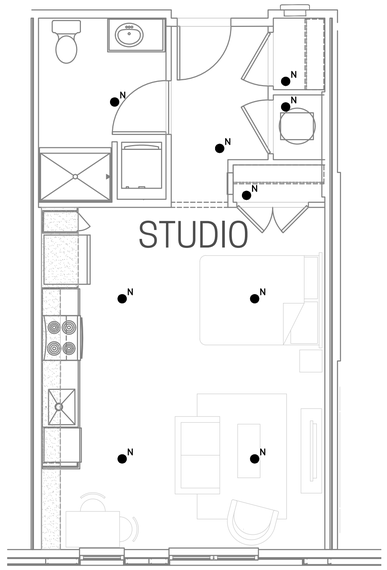
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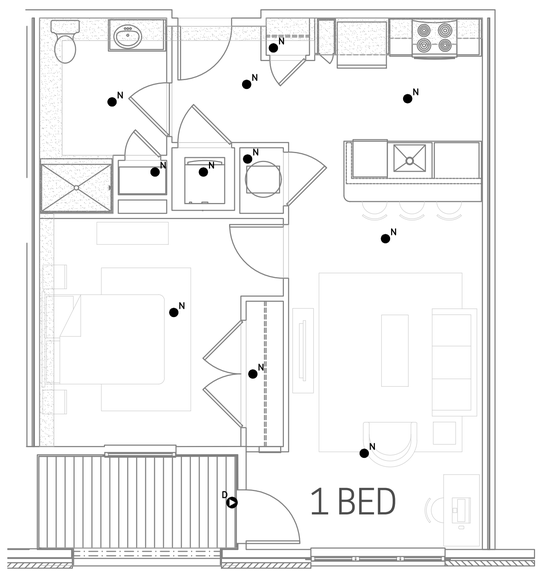
FP4 **ENLARGED PLAN - UNIT TYPE 4**

1/4"=1'-0"



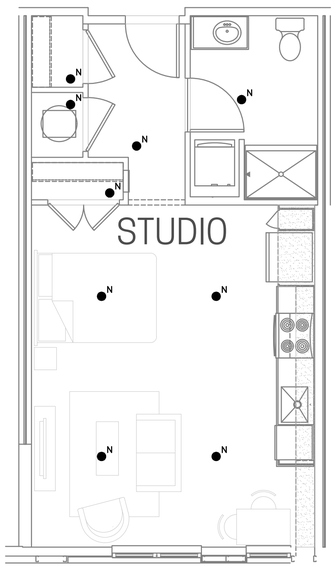
FP2 **ENLARGED PLAN - UNIT TYPE 2**

1/4"=1'-0"



FP3 **ENLARGED PLAN - UNIT TYPE 3**

1/4"=1'-0"



FP1 **ENLARGED PLAN - UNIT TYPE 1**

1/4"=1'-0"

FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.

COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.

REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.

DELEGATED FIRE SUPPRESSION DESIGN

DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.

THESE DRAWINGS SHOW THE INTENDED FIRE SUPPRESSION SCOPE. THE INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED TO OBTAIN THE PERMIT. THE DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT / OWNER FOR REVIEW PRIOR TO SUBMITTING FOR PERMIT.

REQUIRED COMPONENTS THAT ARE NOT SHOWN ON THESE DRAWINGS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
O^N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
●^N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
▼^D	DRY CONCEALED SIDEWALL SPRINKLER
O H	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION

PARAMOUNT WORKS

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Drawing Title
FIRE PROTECTION ENLARGED PLANS

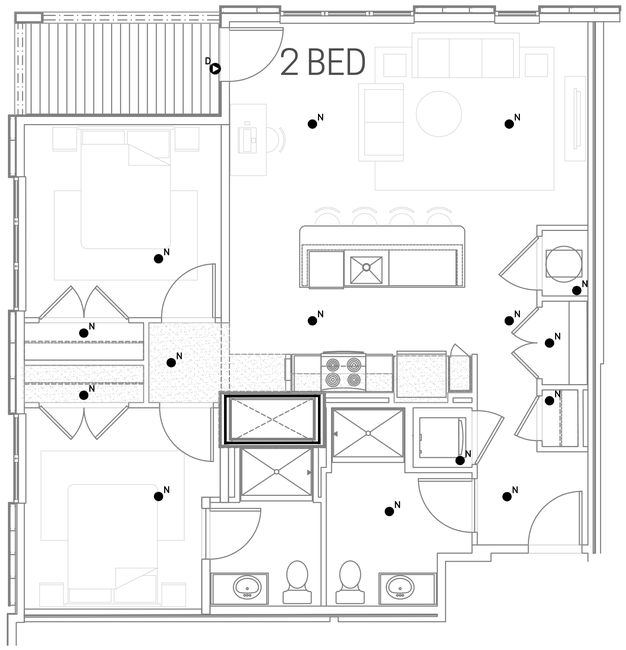
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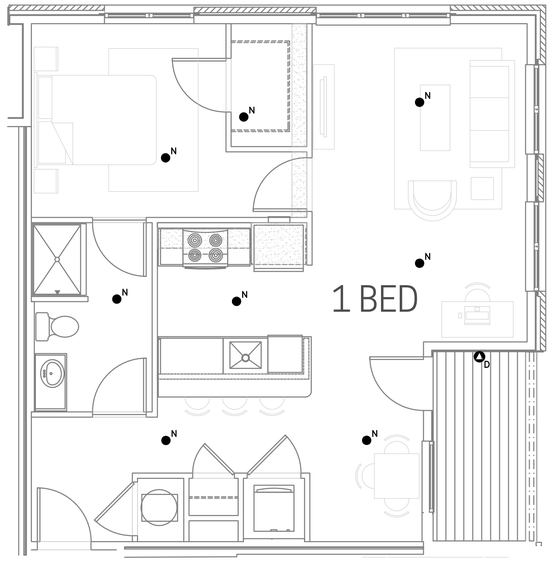
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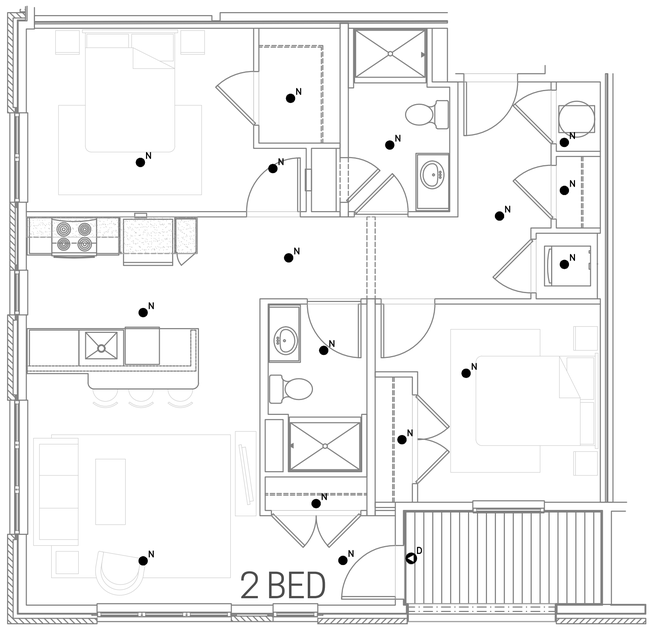
FP8 **ENLARGED PLAN - UNIT TYPE 8**

1/4"=1'-0"



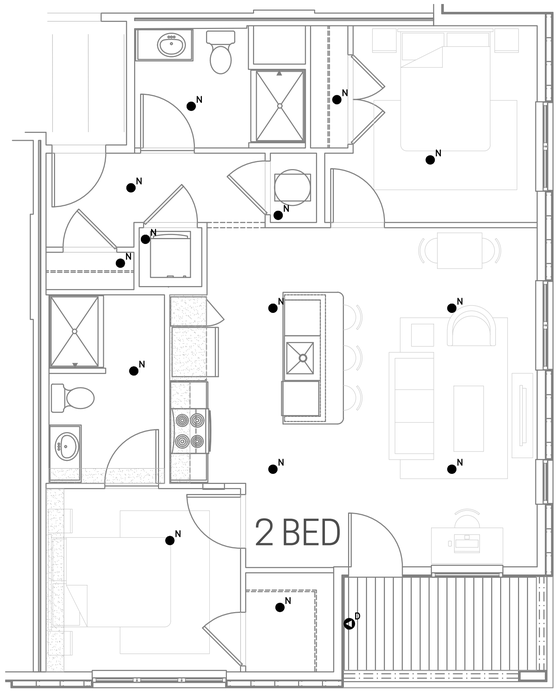
FP6 **ENLARGED PLAN - UNIT TYPE 6**

1/4"=1'-0"



FP7 **ENLARGED PLAN - UNIT TYPE 7**

1/4"=1'-0"



FP5 **ENLARGED PLAN - UNIT TYPE 5**

1/4"=1'-0"

FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.

COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.

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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
D	DRY CONCEALED SIDEWALL SPRINKLER
	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION

PARAMOUNT WORKS

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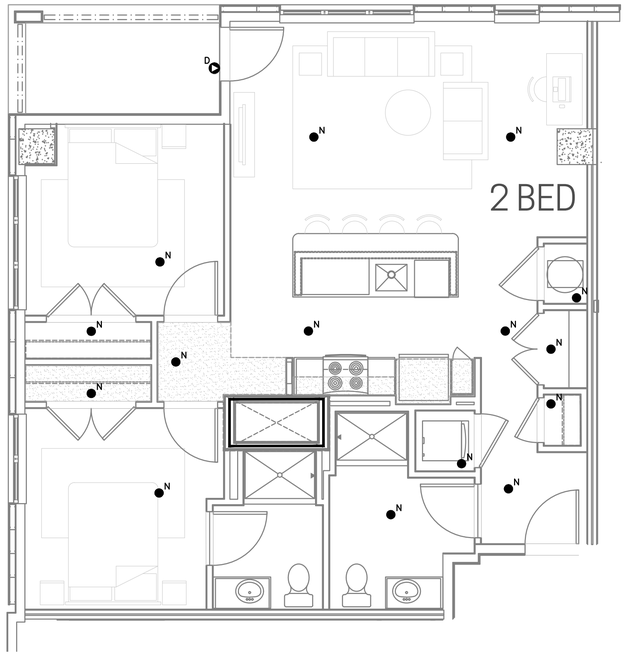
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FIRE PROTECTION ENLARGED PLANS

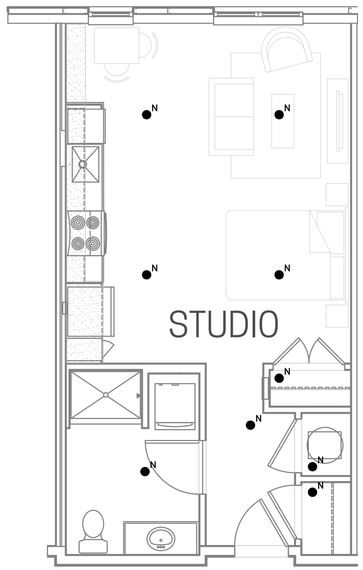
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FP12 **ENLARGED PLAN - UNIT TYPE 12**

1/4"=1'-0"



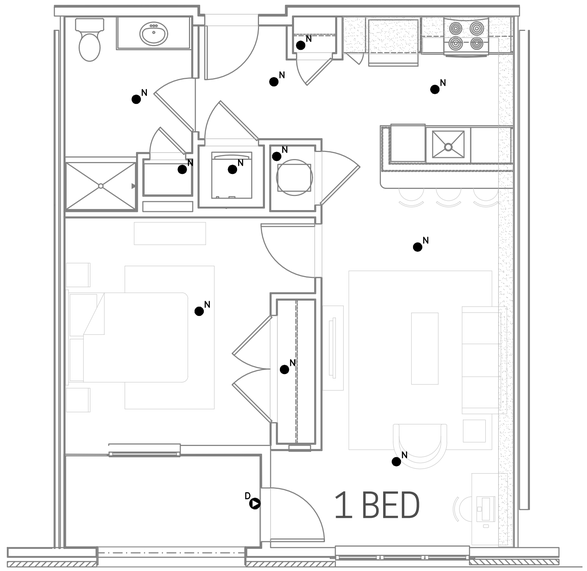
FP10 **ENLARGED PLAN - UNIT TYPE 10**

1/4"=1'-0"



FP11 **ENLARGED PLAN - UNIT TYPE 11**

1/4"=1'-0"



FP9 **ENLARGED PLAN - UNIT TYPE 9**

1/4"=1'-0"

FIRE PROTECTION GENERAL NOTES

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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
○ N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
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○ H	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION

PARAMOUNT WORKS

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DIVISION 21 - FIRE SUPPRESSION

1. GENERAL FIRE SUPPRESSION REQUIREMENTS
   a. DELEGATED DESIGN - PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE PROTECTION SYSTEM, INCLUDING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE FIRE SUPPRESSION WORK. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY/AUTHORITY HAVING JURISDICTION AND INCLUDE IN SCOPE. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND HYDRAULIC CALCULATIONS REQUIRED FOR FIRE PROTECTION PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL. ALL REQUIRED COMPONENTS ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.
   b. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR MUST REFER TO SITE PLANS, ARCHITECTURAL PLANS AND ELEVATIONS, AND PRICING INSTRUCTIONS FROM THE GENERAL CONTRACTOR TO DEVELOP THEIR PRICE. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR'S PRICE (INCLUDING TAXES) SHOULD INCLUDE ALL LABOR AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE SUPPRESSION SYSTEM.
   c. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL BE LICENSED BY THE STATE OF OHIO TO INSTALL FIRE SUPPRESSION SYSTEMS.
   d. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NFPA, AND ALL APPLICABLE STATE, LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
   e. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR AT HIS OWN COST MUST FURNISH HIS OWN PROFESSIONALLY ENGINEERED, SIGNED/SEALED PERMIT DRAWINGS. DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND GENERAL CONTRACTOR FOR REVIEW AND COORDINATION WITH OTHER DISCIPLINES. THIS WORK MUST BE PERFORMED PRIOR TO SUBMITTAL.
   f. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE AND CERTIFIED SHOP DRAWINGS, HYDRAULIC CALCULATIONS, DESCRIPTIVE DATA, PERFORMANCE DATA AND RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL SPECIFIED EQUIPMENT INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW CONCURRENTLY WITH SUBMITTING FOR BUILDING DEPARTMENT APPROVAL. ARCHITECT MAY REQUIRE SPRINKLER LOCATIONS TO BE MOVED FOR COORDINATION PURPOSES OR AESTHETIC REASONS.
   g. REFER TO ARCHITECTURAL DRAWINGS, GENERAL NOTES, INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS, AND DRAWINGS EXCEPT AS NOTED HEREIN WHICH APPLY IN ALL RESPECTS TO THIS SECTION.
   h. COORDINATE PIPING CHASES, SHAFTS, ABOVE CEILING WORK, ETC. WITH ARCHITECT. ALL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO WORK.
   i. THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY SPRINKLER PIPING PENETRATIONS. THIS INCLUDES CORING HOLES IN SLABS, ETC.
   j. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY. ALL EQUIPMENT MUST BEAR UL LABEL.
   k. INSTALL EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL CODE RECOMMENDED CLEARANCES.
   l. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE FIRE SUPPRESSION WORK PRIOR TO BID. ALL WORK SHALL BE DONE AT TIMES CONVENIENT TO THE OWNER AND ONLY DURING NORMAL WORKING HOURS, UNLESS SPECIFIED OTHERWISE. FIRE SUPPRESSION/SPRINKLER CONTRACTOR SHALL TAKE THEIR OWN MEASUREMENTS.
   m. WHERE NOT PROVIDED BY OTHERS, PROCURE AND PAY FOR ALL PERMITS, FEES, TAXES AND INSPECTIONS NECESSARY TO COMPLETE THE FIRE SUPPRESSION WORK. FURNISH CERTIFICATE OF APPROVAL FOR WORK FROM INSPECTION AUTHORITY TO OWNER BEFORE FINAL ACCEPTANCE FOR WORK. CERTIFICATE OF FINAL INSPECTION AND APPROVAL SHALL BE SUBMITTED WITH THE CONTRACTOR'S REQUEST FOR PAYMENT. NO FINAL PAYMENT WILL BE APPROVED WITHOUT THIS CERTIFICATE.
   n. ALL WORK SHALL BE ACCURATELY LAID-OUT WITH OTHER TRADES, PRIOR TO INSTALLATION & FABRICATION, TO AVOID ALL CONFLICTS AND OBTAIN A NEAT AND WORKMANLIKE INSTALLATION WHICH WILL AFFORD MAXIMUM ACCESSIBILITY FOR EQUIPMENT OPERATION, MAINTENANCE CLEARANCES AND HEADROOM.
2. USE OF INFORMATION PROVIDED BY EBS
   a. THE INFORMATION PROVIDED IS INTENDED TO CONVEY DESIGN INTENT ONLY. ALL MEANS AND METHODS, SEQUENCES, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION AS WELL AS ANY ASSOCIATED SAFETY PRECAUTIONS AND PROGRAMS, AND ALL INCIDENTAL AND TEMPORARY DEVICES REQUIRED TO CONSTRUCT THE PROJECT, AND TO PROVIDE A COMPLETE AND FULLY OPERATIONAL FIRE PROTECTION SYSTEM ARE THE RESPONSIBILITY OF THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR.
3. CONTRACTOR COORDINATION
   a. COORDINATION DRAWINGS SHOWING SYSTEM AND COMPONENT INSTALLATION LAYOUT, ROUTING, DETAILS, ETC. SHALL BE PRODUCED BY THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR AND UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY AS APPLICABLE. ALL SYSTEMS INSTALLED BY EACH SUB-CONTRACTOR SHALL BE COORDINATED WITH ONE ANOTHER AND APPROVED BY GENERAL CONTRACTOR/CONSTRUCTION MANAGER PRIOR TO INSTALLATION AND/OR FABRICATION. IF QUESTIONS CONCERNING DESIGN INTENT ARISE DURING COORDINATION, EBS CAN ASSIST WHERE APPROPRIATE.
4. SYSTEM DESIGN
   a. FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED ACCORDING TO NFPA 13.
   b. FLOW TEST INFORMATION:
      TEST DATE: 12/01/2021
      HYDRANT FLOWED - 1ST HYDRANT SOUTH OF WILLIAM HOWARD TAFT ON KEMPER LN
      HYDRANT GAUGED - 2ND HYDRANT SOUTH OF WILLIAM HOWARD TAFT ON KEMPER LN
      STATIC - 50 PSI
      RESIDUAL - 45 PSI
      FLOW - 844 GPM
   c. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THEIR OWN FLOW TEST INFORMATION. FLOW TEST INFORMATION IS PROVIDED TO GIVE THE CONTRACTOR THE MOST RECENT INFORMATION AVAILABLE ON FILE AND MAY NO LONGER BE ACCURATE. CHANGES IN DESIGN AND ASSOCIATED ADDITIONAL COSTS INCURRED FOR USE OF INACCURATE FLOW TEST INFORMATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
   d. PROVIDE NEW 6" DUAL SERVICE WATER BRANCH FROM THE MAIN IN THE STREET PER THE GREATER CINCINNATI WATER WORKS STANDARD DETAIL 108-13A.
   e. A FIRE PUMP WILL BE REQUIRED FOR THIS PROJECT.
   f. PROVIDE SPRINKLERS IN CONCEALED, COMBUSTIBLE SPACES WHERE REQUIRED BY NFPA 13.
   g. PROVIDE STANDPIPES AND HOSE VALVE CONNECTIONS WHERE REQUIRED.
   h. PROVIDE FLOOR CONTROL VALVE, CHECK VALVE, MAIN DRAIN VALVE, AND FLOW SWITCH FOR ISOLATION, CONTROL, AND ANNUNCIATION OF WATER FLOW FOR EACH INDIVIDUAL FLOOR LEVEL.
   i. RESIDENTIAL AREAS AND COMMON SPACES CAN BE DESIGNED AS LIGHT HAZARD OCCUPANCIES.
   j. STORAGE AND MECHANICAL SPACES SHALL BE DESIGNED AS ORDINARY HAZARD GROUP 1 OCCUPANCIES.
   k. COMMERCIAL TENANT SPACES SHALL BE DESIGNED AS ORDINARY HAZARD GROUP 2 OCCUPANCIES.
5. MONITORING/DETECTION/NOTIFICATION
   a. FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR ALL MONITORING AND ALARM DEVICES FOR THE SPRINKLER SYSTEM. FIRE ALARM PANEL WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
   b. PROVIDE FLOW SWITCH AT THE SPRINKLER SYSTEM RISER.
   c. PROVIDE TAMPER SWITCHES TO MONITOR ALL SPRINKLER CONTROL VALVES.
6. INTERIOR PIPING
   a. WHERE ALLOWED BY CODE, PIPING CAN BE CPVC. THE PIPE SHALL BE RIGID CHLORINATED POLYVINYL CHLORIDE (CPVC), TYPE IV GRADE I, WITH A CELL CLASSIFICATION OF 23547 AS DEFINED IN ASTM D1784. THE PRODUCT SHALL BE ORANGE IN COLOR, AND APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) FOR USE WITH POTABLE WATER. MATERIAL SHALL BE BLAZEMASTER CPVC MATERIAL AS PROVIDED BY NOVEON, INC. (FORMERLY THE BF GOODRICH COMPANY). FITTINGS SHALL BE UL LISTED CPVC FITTINGS AND SHALL MEET ASTM F437 (SCH 80 THREADED), ASTM F437 (SCH 80 SOCKET), OR ASTM F438 (SCH 40 SOCKET) AS APPLICABLE, BY SPEARS MANUFACTURING CO. OR EQUIVALENT. SOLVENT CEMENTS SHALL BE THOSE REFERENCED IN GEORG FISCHER HARVEL LLC INSTALLATION INSTRUCTIONS (SUCH AS SPEARS FS-5 OR EQUIVALENT), WHICH MEET ASTM F656 AND ASTM F493, AND APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) FOR USE WITH POTABLE WATER. SOCKET TYPE JOINTS SHALL BE MADE USING THE ONE-STEP SOLVENT CEMENT JOINING METHOD IN ACCORDANCE WITH GF HARVEL INSTALLATION INSTRUCTIONS.
   b. WHERE CPVC PIPING IS NOT ALLOWED, PIPING SMALLER THAN 2" SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 125, CAST-IRON THREADED FITTINGS. PIPING LARGER THAN 2" SHALL BE SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL GROOVED PIPE COUPLINGS (ROLL-GROOVED TYPE). 2" PIPING CAN BE SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 125, CAST-IRON THREADED FITTINGS OR SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL GROOVED PIPE COUPLINGS (ROLL-GROOVED TYPE).
7. SPRINKLERS
   a. SPRINKLERS IN FINISHED CEILINGS SHALL BE FULLY RECESSED WITH FLAT WHITE COVER PLATE.
   b. SPRINKLERS IN AREAS WITH NO CEILINGS SHALL BE BRASS UPRIGHT OR BRASS PENDENT.
   c. PROVIDE DRY SIDEWALL SPRINKLERS TO PROTECT BALCONIES.
   d. PROVIDE SPRINKLERS IN TRASH CHUTES AND ELEVATOR SHAFTS.
8. ADDITIONAL STOCK
   a. PROVIDE 2 ADDITIONAL SPRINKLERS OF EACH TYPE, WRENCHES, SIGNAGE, ETC. AT PROJECT TURNOVER.
9. FIRE DEPARTMENT CONNECTION
   a. PROVIDE PIPING TO THE WALL-MOUNTED FIRE DEPARTMENT CONNECTION FOR SPRINKLER SYSTEM. PIPING SERVING FIRE DEPARTMENT CONNECTION SHALL CONNECT TO SPRINKLER SYSTEM DOWNSTREAM OF THE FIRE PUMP AND SHALL HAVE A CHECK VALVE INLINE.
10. HANGERS & SUPPORTS
   a. FURNISH ALL PIPE SUPPORTS REQUIRED FOR THEIR WORK. ALL PIPING SHALL BE SUPPORTED PER CODE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING.
11. ESCUTCHEON PLATES
   a. INSTALL ONE-PIECE CHROME PLATED BRASS WALL PLATE EQUIPPED WITH SET SCREW AROUND ALL EXPOSED PIPE PASSING THROUGH WALLS IN FINISHED AREAS.
12. ACCESS PANELS
   a. LOCATE VALVES IN READILY ACCESSIBLE LOCATIONS. WHERE VALVES SHALL BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS, PROVIDE ACCESS PANELS. ACCESS PANELS SHALL BE PAINTABLE METAL. COORDINATE ACCESS PANEL SIZES AND LOCATIONS WITH THE ARCHITECT.
13. FIRESTOPPING
   a. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH RATED SEPARATIONS PER LOCAL CODES & REGULATIONS & PER UL RECOMMENDATIONS FOR ASSEMBLIES ENCOUNTERED IN PROJECT.
   b. THE FIRESTOPPING MATERIAL SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATED WALL, FLOOR, CEILING & ROOF BEING PENETRATED. REFER TO ARCHITECT'S DRAWINGS FOR WALL, FLOOR, CEILING & ROOF FIRE RATINGS PRIOR TO BIDDING WORK.
14. CATHODIC PROTECTION
   a. PROVIDE DIELECTRIC INSULATION AT POINTS WHERE COPPER OR BRASS PIPE COMES IN CONTACT WITH FERROUS PIPING, REINFORCING STEEL OR OTHER DISSIMILAR METAL IN STRUCTURE.
15. CUTTING AND PATCHING
   a. CUT AND PATCH WALLS AND FLOORS TO MATCH BUILDING CONSTRUCTION WHERE REQUIRED TO INSTALL ALL FIRE SUPPRESSION WORK.
16. INSTALLATION
   a. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR SLABS.
   b. WHERE PIPING PASSES THROUGH CONCRETE WALLS, MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOORS, AND ROOF SLABS, OPENINGS SHALL BE CUT CLEAN AROUND THE PIPING WITH NOT MORE THAN 2 INCHES OF SPACE BETWEEN THE PIPING AND THE OPENING. PIPE SLEEVES WILL BE REQUIRED WHERE THERE IS MORE THAN 2 INCHES OF SPACE BETWEEN THE PIPE AND THE OPENING.
17. TESTING
   a. ALL FIRE SUPPRESSION WORK SHALL BE TESTED & APPROVED BY INSPECTOR PRIOR TO BEING BACKFILLED, CONCEALED & PUT INTO SERVICE.
18. SHOP DRAWINGS
   a. SUBMIT TO THE ARCHITECT PDF FILE COPIES OF COMPLETE & CERTIFIED SHOP DRAWINGS, DESCRIPTIVE DATA, PERFORMANCE DATA & RATINGS, DIAGRAMS AND SPECIFICATIONS ON ALL PIPING, DEVICES, AND EQUIPMENT, INCLUDING ACCESSORIES, AND MATERIALS FOR REVIEW.
   b. THE MAKE, MODEL NUMBER, TYPE, FINISH & ACCESSORIES OF ALL EQUIPMENT AND MATERIALS SHALL BE REVIEWED & APPROVED BY THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR & GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT FOR REVIEW.
   c. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE FIRE SUPPRESSION/SPRINKLER CONTRACTOR/VENDOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS & APPLICABLE CODES.
19. OWNER'S INSTRUCTIONS
   a. PROVIDE TWO SETS OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS WITH DRAWINGS, TYPEWRITTEN INSTRUCTIONS AND OPERATING SEQUENCES AND DESCRIPTIVE DATA SHEETS. ASSEMBLE EACH SET IN A HARD-BOUND COVER.
20. WARRANTY
   a. THE FIRE SUPPRESSION CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN EQUIPMENT, MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND THE FIRE SUPPRESSION CONTRACTOR WILL REPAIR OR REPLACE DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE TO THE OWNER.
   b. RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE EQUIPMENT, MATERIALS AND WORKMANSHIP.

PARAMOUNT WORKS
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WALNUT HILLS NEIGHBORHOOD

No.	Issuances / Revisions / Submissions	Date
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PR-10535

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FIRE PROTECTION DETAILS

Document No.
FP300

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THESE DRAWINGS AND SPECIFICATIONS ARE NOT AUTHORIZED TO BE USED AS CONTRACT DOCUMENTS. THESE DRAWINGS HAVE BEEN PREPARED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES, AND ARE INTENDED TO PROVIDE THE AUTHORITIES HAVING JURISDICTION WITH INFORMATION TO DETERMINE CODE COMPLIANCE. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT MEANS, METHODS, AND MATERIALS USED IN CONSTRUCTION ARE INSTALLED IN ACCORDANCE WITH ANY CONTRACTURAL AGREEMENT THAT MAY EXIST WITH AN OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ETC.
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FIRE PROTECTION GENERAL NOTES

INSTALL SPRINKLER SYSTEMS ON FIRST FLOOR PER NFPA 13. INSTALL SPRINKLER SYSTEMS ON FLOORS 2-5 PER NFPA 13R. PROTECT CONCEALED SPACES AS REQUIRED.

COORDINATE WITH ARCHITECT'S CODE ANALYSIS. CONTACT ARCHITECT IF ANY DISCREPANCIES.

REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.

DELEGATED FIRE SUPPRESSION DESIGN

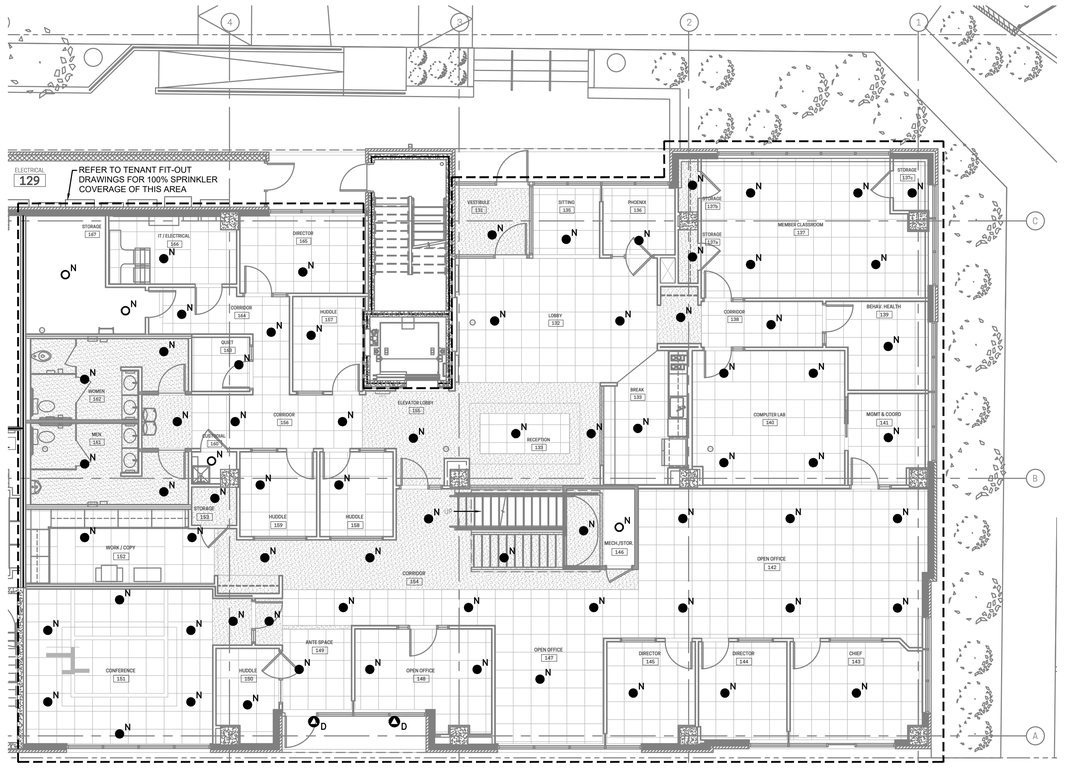
DESIGN OF THE FIRE SUPPRESSION SYSTEM IS DELEGATED TO THE INSTALLING CONTRACTOR. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE SUPPRESSION SYSTEM LIES WITH THE INSTALLING SPRINKLER CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET WHEN DETERMINING THE APPROPRIATE FIRE SUPPRESSION DESIGN. VERIFY REQUIREMENTS SPECIFIC TO THE PROJECT LOCALE, THE AUTHORITY HAVING JURISDICTION, AND INCLUDE IN SCOPE.

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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
—— F ——	FIRE SERVICE / SPRINKLER PIPING
N	EXPOSED SPRINKLER IN AREA WITH NO CEILING (BRASS FINISH)
N	SPRINKLER IN FINISHED CEILING (CONCEALED WITH COVER PLATE)
D	DRY CONCEALED SIDEWALL SPRINKLER
	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP1	TI OFFICE FIRST FLOOR
1/8"=1'-0"	

PARAMOUNT WORKS

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WALNUT HILLS NEIGHBORHOOD

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FIRE PROTECTION TI OFFICE PLANS

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TI-FP100

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FIRE PROTECTION GENERAL NOTES

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REFERENCE ARCHITECTURAL PLANS FOR CEILING HEIGHTS AND MATERIALS.

DELEGATED FIRE SUPPRESSION DESIGN

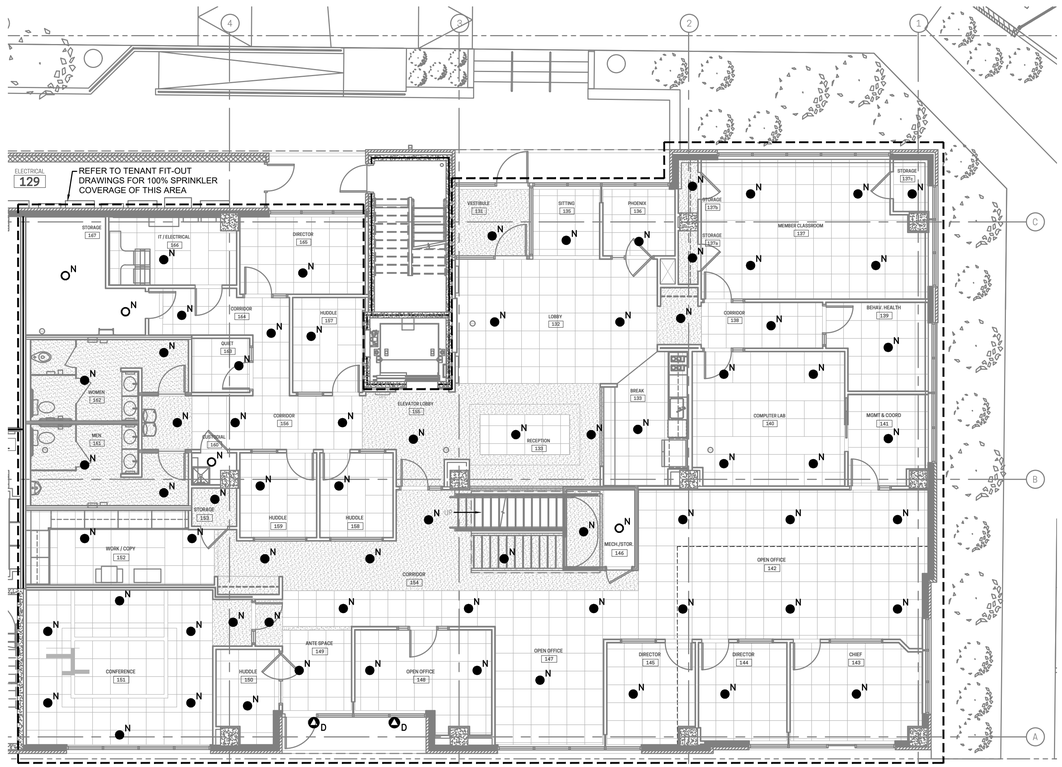
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▼ D	DRY CONCEALED SIDEWALL SPRINKLER
O+	STANDPIPE WITH 2-1/2" HOSE VALVE CONNECTION



FP2 ENLARGED PLAN - TI OFFICE SECOND FLOOR

1/8"=1'-0"

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FIRE PROTECTION TI OFFICE PLANS

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