

THE VILLAGE AT DISCOVERY - LOT 1

LEE'S SUMMIT, MO

PRINTS ISSUED
11/20/24 - CITY SUBMITTAL

REVISIONS:
1 12/12/24 City Comment Response

rosemann & associates p.c.
ARCHITECTURE
INTERIOR DESIGN
ENGINEERING
PLANNING

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THE VILLAGE AT DISCOVERY -
LOT 1
221 NE ALURA WAY
LEE'S SUMMIT, MO

SHEET TITLE
TITLE SHEET

PROJECT NUMBER: 23096

SHEET NUMBER:

G-001

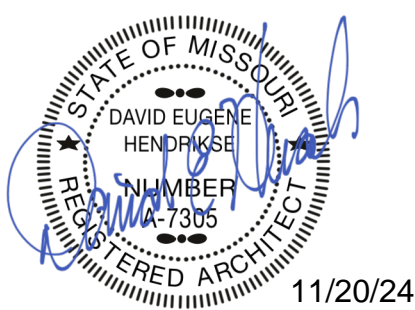
PROJECT CERTIFICATION

I, **David E. Hendrikse**, hereby specify pursuant to the governing requirements of the state, that the documents intended to be authenticated by my seal are limited to:

| | | | |
|-------|--------|-------|-------|
| G-001 | G-203 | A-105 | A-600 |
| G-002 | G-204 | A-106 | A-601 |
| G-003 | G-205 | A-120 | A-602 |
| G-004 | G-206 | A-200 | |
| G-005 | G-300 | A-300 | |
| G-006 | G-301 | A-301 | |
| G-100 | G-302 | A-302 | |
| G-101 | G-303 | A-500 | |
| G-200 | AS-100 | A-501 | |
| G-201 | A-101 | A-502 | |
| G-202 | A-102 | A-503 | |

and I hereby disclaim any responsibility for all other plans, specifications, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

SEAL



David E. Hendrikse, AIA

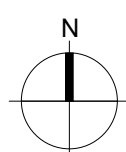
REGIONAL MAP



VICINITY MAP



THE VILLAGE AT DISCOVERY - LOT 1
LEE'S SUMMIT, MO



SHEET INDEX

| GENERAL | | | | |
|------------------|--------------|-------------------------------|------|-----------------------|
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| 11/20/24 | G-004 | GENERAL INFORMATION | | |
| 11/20/24 | G-005 | GENERAL INFORMATION | | |
| 11/20/24 | G-006 | GENERAL INFORMATION | | |
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CIVIL UNDER SEPARATE REVIEW
REFERENCE FDP

| STRUCTURAL | | | | |
|------------------|--------------|--|------|-----------------------|
| Sheet Issue Date | Sheet Number | Sheet Name | Rev. | Current Revision Date |
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|------------------|--------------|---------------------------------|------|-----------------------|
| Sheet Issue Date | Sheet Number | Sheet Name | Rev. | Current Revision Date |
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| | | | | |
|--|-------|------------|---|----------------|
| SOLID FILL INDICATES INCLUSION IN ISSUE | | | | |
| SHEET ISSUE DATE | | | | |
| 10 / 10 / 2020 | A-000 | SHEET NAME | - | 10 / 10 / 2020 |
| SHEET INDEX LEGEND | | | | |
| SHEET NUMBER AND NAME | | | | |
| CURRENT REVISION NUMBER & REVISION DATE ON SHEET | | | | |

MECHANICAL

| Sheet Issue Date | Sheet Number | Sheet Name | Rev. | Current Revision Date |
|------------------|--------------|--|------|-----------------------|
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| 11/20/24 | MEP3 | SITE LIGHTING PLAN | | |
| 11/20/24 | MEP4 | MEP PLAN - ROOF | | |
| 11/20/24 | M101 | HVAC PLAN - FIRST FLOOR | | |
| 11/20/24 | M102 | HVAC PLAN - SECOND FLOOR | | |
| 11/20/24 | M501 | HVAC DETAILS & SCHEDULES | | |

ELECTRICAL

| Sheet Issue Date | Sheet Number | Sheet Name | Rev. | Current Revision Date |
|------------------|--------------|--------------------------------|------|-----------------------|
| 11/20/24 | EP101 | POWER PLAN - FIRST FLOOR | | |
| 11/20/24 | EP102 | POWER PLAN - SECOND FLOOR | | |
| 11/20/24 | EL101 | LIGHTING PLAN - FIRST FLOOR | | |
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| 11/20/24 | E501 | ELECTRICAL DETAILS & SCHEDULES | | 1 12/12/24 |

FIRE PROTECTION

| Sheet Issue Date | Sheet Number | Sheet Name | Rev. | Current Revision Date |
|------------------|--------------|-----------------|------|-----------------------|
| 11/20/24 | FA101 | FIRE ALARM PLAN | | |

PLUMBING

| Sheet Issue Date | Sheet Number | Sheet Name | Rev. | Current Revision Date |
|------------------|--------------|------------------------------|------|-----------------------|
| 11/20/24 | P101 | PLUMBING PLAN - FIRST FLOOR | | |
| 11/20/24 | P102 | PLUMBING PLAN - SECOND FLOOR | | |
| 11/20/24 | P501 | PLUMBING DETAILS & SCHEDULES | | |

PROJECT DATA

PROJECT DESIGN INFORMATION

NEW CONSTRUCTION:

ZONING: PMIX - PLANNED MIXED USE DISTRICT
CODE:

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRIC CODE
2009 ACCESSIBILITY CODE ICC/ANSI 117-1
LEE'S SUMMIT AMENDMENTS TO ENERGY CODE

OCCUPANCY GROUP: B, BUSINESS
A-2, UNCONCENTRATED

TYPE OF CONSTRUCTION: TYPE VB

BUILDING SUMMARY:
(1) TOTAL BUILDING, (2) STORIES
HEIGHT: 42'

| SQUARE FOOTAGES: | GROSS | NET |
|------------------|-------------|-------------|
| 2-STORY | | |
| FIRST FLOOR | 14,014 S.F. | 13,756 S.F. |
| SECOND FLOOR | 14,014 S.F. | 13,756 S.F. |
| BUILDING TOTAL | 28,028 S.F. | 27,512 S.F. |

SEE CIVIL FOR SITE SUMMARY

PROJECT TEAM

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SIGNATURE BLOCK

| CODE REVIEW | CHAPTER SEVEN |
|--|--|
| PROJECT NAME: THE VILLAGE AT DISCOVERY - LOT 1 PROJECT LOCATION: LEE SUMMIT, MO CODE: 2018 IBC CODE REVIEW COMPLETED BY: AJ DOLPH | 704 FIRE-RESISTANCE RATING OF STRUCTURAL MEMBERS: 0 HOUR RATED 705.5 EXTERIOR WALLS FIRE-RESISTANCE RATING: FIRE SEPARATION DISTANCE > 10'-0" RATED EXPOSURE FROM INSIDE ONLY TABLE 705.8 MAX AREA OF EXTERIOR WALL OPENINGS: FIRE SEPARATION DISTANCE > 25'-0" UNPROTECTED, NO LIMIT SECTION 707 FIRE BARRIERS: 1 HOUR RATED SECTION 708 FIRE PARTITIONS: 1 HOUR RATED SECTION 711 HORIZONTAL ASSEMBLIES: 1 HOUR RATED SECTION 713 SHAFT ENCLOSURES: 1 HOUR RATED SECTION 714 PENETRATIONS: MATCH ASSEMBLY RATING SECTION 715 FIRE-RESISTANT JOINT SYSTEMS: MATCH ASSEMBLY RATING TABLE 716.1(2) OPENING FIRE PROTECTION & RATING: 1 HOUR FIRE BARRIER:60 MINUTE DOOR 1 HOUR PARTITION: 45 MINUTE DOOR 717 DUCTS AND AIR TRANSFER OPENINGS: REQUIRED AT RATED PENETRATIONS, 1.5 HOUR DAMPER RATING SECTION 718 CONCEALED SPACES: FIREBLOCK |
| CHAPTER THREE | CHAPTER NINE |
| SECTION 302 CLASSIFICATION: B, BUSINESS A-2, UNCONCENTRATED | 903 AUTOMATIC SPRINKLER SYSTEM: A-2, B, REQUIRED: NFPA 13 905 STANDPIPE SYSTEM: CLASS I REQUIRED 906 PORTABLE FIRE EXTINGUISHERS: REQUIRED PER NFPA 10, 75'-0" MAX TRAVEL 907 FIRE ALARM & DETECTION SYSTEM: REQUIRED PER NFPA 72 909 SMOKE CONTROL SYSTEM: COMPLY WITH IMC |
| CHAPTER FOUR | CHAPTER TEN |
| SECTIONS 402 - 428: N/A | TABLE 1004.5 MAX FLOOR AREA ALLOWANCES PER OCCUPANT: A-2, 15 NET B, 150 GROSS SECTION 1005 MEANS OF EGRESS SIZING: STAIRS 0.2/OCC., W/ SPRINKLER EXCEPTION OTHER EGRESS 0.15/OCC., W/ SPRINKLER EXCP. TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY: A-2- 49 OCC., 75' MAX. PATH OF EGRESS B, 49 OCC., 100' MAX. PATH OF EGRESS TABLE 1006.3.2 MINIMUM NUMBER OF EXITS PER STORY: 2 EXITS REQ.D W/ OCCUPANT LOAD/STORY 1-500 3 EXITS REQ.D W/ OCCUPANT LOAD/STORY 500-1000 1009.3.3 AREA OF REFUGE: NOT REQUIRED W/ SPRINKLER EXCEPTION 1009.8 TWO-WAY COMMUNICATION: REQ'D. AT EACH ELEV. LANDING ABOVE GRADE 1011.2 STAIRWAY WIDTH CAPACITY: 44" MIN. 1011.12 STAIRWAY TO ROOF: UNOCCUPIED ROOF, ACCESS VIA ROOF HATCH 1014.2 HANDRAIL HEIGHT: 34" MIN. - 38" MAX. 1014.6 HANDRAIL EXTENSIONS: EXTEND HORIZONTALLY 12" BEYOND TOP RISER CONTINUE SLOPE 1 DEPTH TREAD AT BOTTOM 1015 GUARDS: 42" MIN. HEIGHT, 4" MAX. OPENING TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE: A: 250' W/ 13 SPRINKLER B: 300' W/ 13 SPRINKLER 1019 EXIT ACCESS STAIRWAYS: 1 HOUR RATED PER 713 TABLE 1020.1 CORRIDOR RATING: A & B: NO RATING REQ.D W/ 13 SPRINKLER 1020.1.1 HOISTWAY OPENING PROTECTION: NOT REQUIRED PER 3006.2 TABLE 1020.2 MIN. CORRIDOR WIDTH: 44" MIN. 1020.4 DEAD ENDS: A: 20'-0" MAX. B: 50'-0" MAX. |
| CHAPTER FIVE | CHAPTER ELEVEN |
| TABLE 504.3 ALLOWABLE HEIGHT IN FEET ABOVE GRADE PLANE: CONSTRUCTION TYPE VB B: ACTUAL: 42' ALLOWABLE: 60'-0" A: ACTUAL: 42' ALLOWABLE: 60'-0" TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE: CONSTRUCTION TYPE VA B: ACTUAL: 2 ALLOWABLE: 3 STORIES A-2: ACTUAL: 1 ALLOWABLE: 2 STORIES 506.2 ALLOWABLE AREA FACTOR: CONSTRUCTION TYPE VB B: ACTUAL: 14,014SF ALLOWABLE: 27,000SF A-2:ACTUAL: 14,014SF ALLOWABLE: 18,000SF TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES: B - B: 0 HOUR A - B: 1 HOUR A - A: 0 HOUR TABLE 509 INCIDENTAL USES: STORAGE > 100 SF, 1HR | ACCESSIBILITY TO COMPLY WITH THIS CH. OF IBC, ICC A117.1, ADA, & FAIR HOUSING TABLE 1106.1 ACCESSIBLE PARKING SPACES: AS PER CIVIL |
| CHAPTER SIX | |
| TABLE 601 FIRE RESISTANCE REQS. FOR BUILDING ELEMENTS (HOURS): CONSTRUCTION TYPE VB PRIMARY STRUCTURAL FRAME: 0 HOUR INTERIOR BEARING WALL: 0 HOUR EXTERIOR BEARING WALL: 0 HOUR NON-BEARING WALL: 0 HOUR FLOOR CONSTRUCTION: 0 HOUR ROOF CONSTRUCTION: 0 HOUR TABLE 602 FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE: 0 HOUR <30 FEET, 0 >30 FEET | |
| CODE PLAN GENERAL NOTES: 1. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. GENERAL CONTRACTOR TO PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINETS WITH FIRE EXTINGUISHERS THROUGHOUT AT ACCESSIBLE HEIGHT. 2. SIGNS IDENTIFYING FIRE PROTECTION EQUIPMENT, CONTROLS FOR AIR CONDITIONING SYSTEMS, SPRINKLER RISERS AND VALVES, OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS SHALL BE IDENTIFIED FOR THE USE OF THE FIRE DEPARTMENT PER 2018 IBC. SIGNAGE SHALL ALSO MEET 2018 IFC REQUIREMENTS FOR HEIGHT AND LETTERING. GC TO COORDINATE WITH AUTHORITY HAVING JURISDICTION ON ALL SIGNAGE. 3. KNOX BOX QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION. 4. ANNUNCIATOR PANEL AND FACP QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALL. 5. ALL DIMENSIONS ARE APPROXIMATE ON CODE PLAN. ACTUAL ARCHITECTURAL DIMENSIONS PER ARCHITECTURAL AND STRUCTURAL PLAN. | |

PRINTS ISSUED

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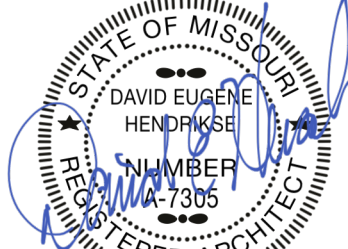
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11/20/24

THE VILLAGE AT DISCOVERY -
LOT 1

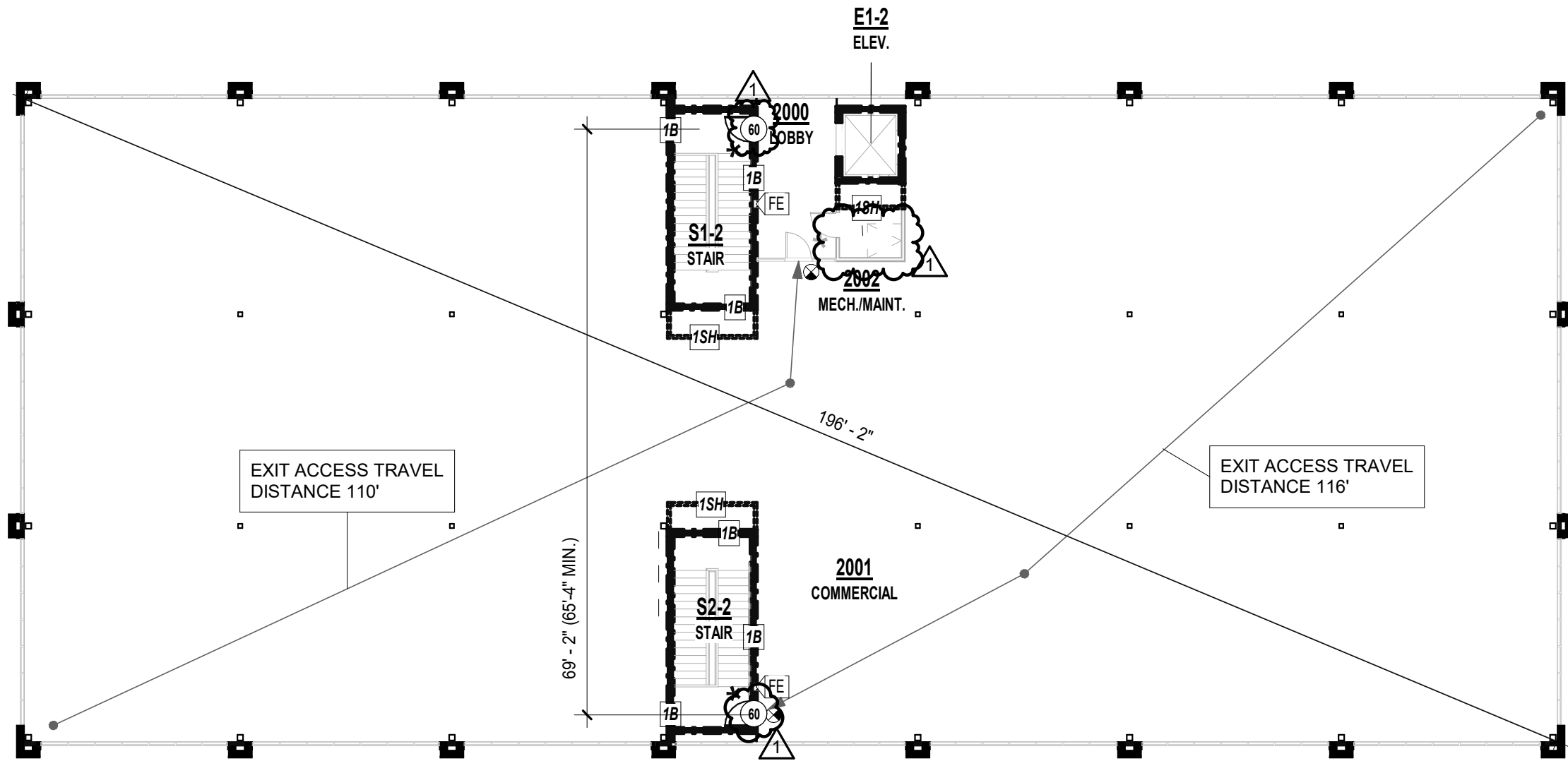
LEE'S SUMMIT, MO

SHEET TITLE
CODE ANALYSIS

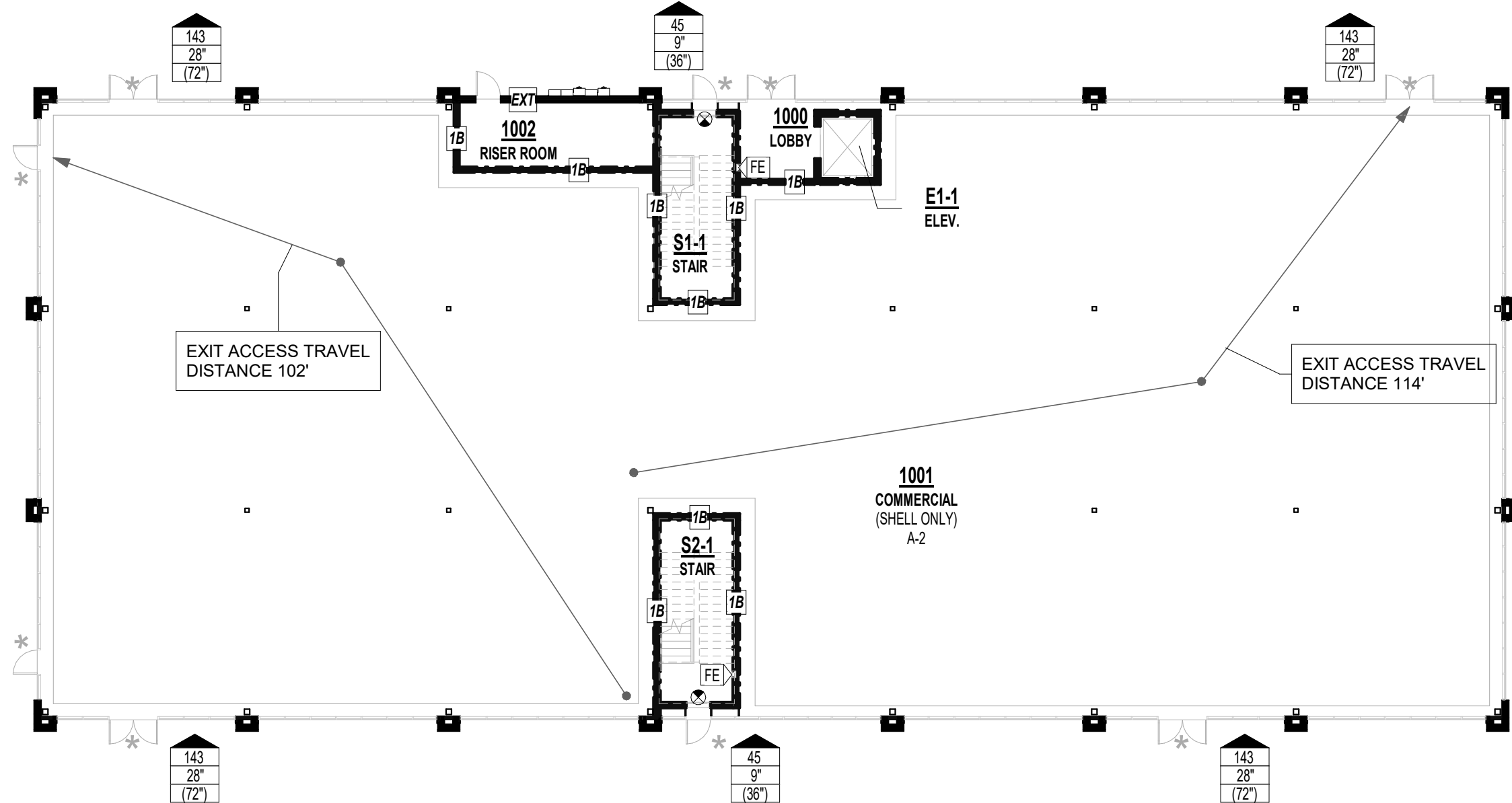
PROJECT NUMBER: 23096

SHEET NUMBER:

G-100



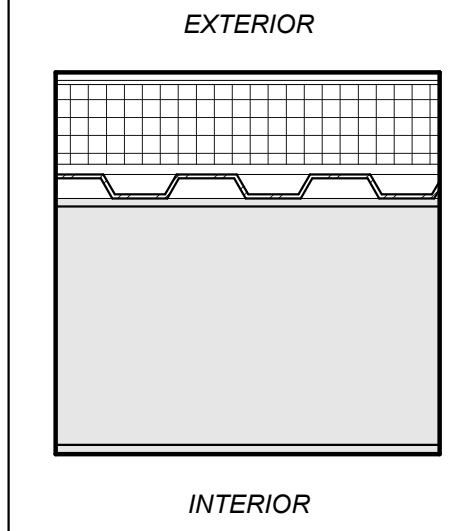
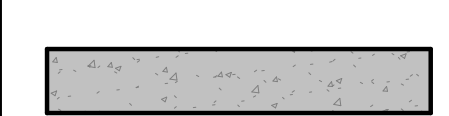
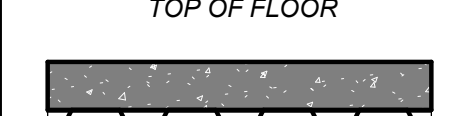
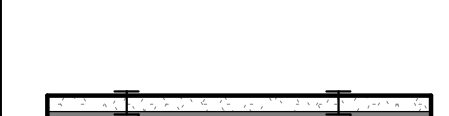
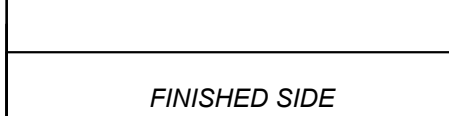
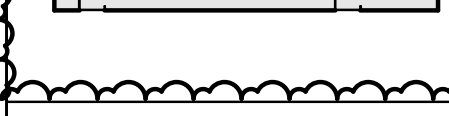


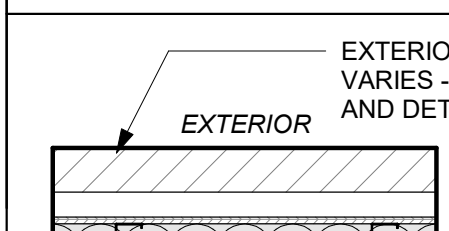
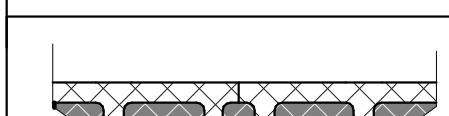
2 2ND FLOOR CODE PLAN
1/16" = 1'-0"

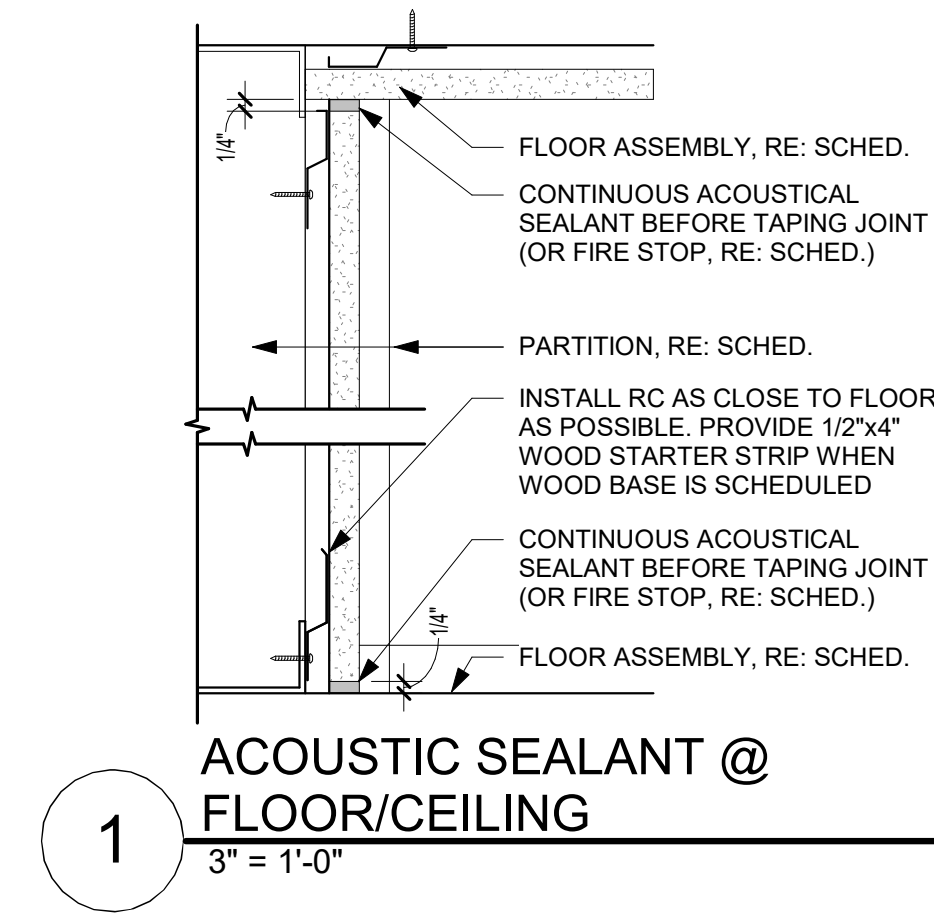


1 1ST FLOOR CODE PLAN
1/16" = 1'-0"

| Occupancy Tabulation per 2018 IBC Table 1004.5 | | | | | | |
|--|-----------------|--------------|--|----------|--------------------------|---------------------------------|
| ROOM NO. | OCCUPANCY CHP.3 | ROOM NAME | Room Occupancy | Area | IBC occupant load factor | Occupant Load calc. EXITS REQ'D |
| 1000 | A-2 | LOBBY | Assembly Unconcentrated | 89 SF | 15 | 6 |
| 1001 | A-2 | COMMERCIAL | Assembly Unconcentrated | 12769 SF | 15 | 852 4 |
| 1002 | U | RISER ROOM | Accessory Storage Areas, Mechanical Equipment Room | 192 SF | 300 | 1 |
| E1-1 | B | ELEV. | (none) | 52 SF | | |
| S1-1 | B | STAIR | (none) | 224 SF | | |
| S2-1 | B | STAIR | (none) | 227 SF | | |
| | | | | 13553 SF | | 859 |
| 2000 | B | LOBBY | Business Areas | 177 SF | 150 | 2 |
| 2001 | B | COMMERCIAL | Business Areas | 12833 SF | 150 | 86 |
| 2002 | B | MECH./MAINT. | Accessory Storage Areas, Mechanical Equipment Room | 42 SF | 300 | 1 |
| E1-2 | B | ELEV. | (none) | 50 SF | | |
| S1-2 | B | STAIR | (none) | 225 SF | | |
| S2-2 | B | STAIR | (none) | 227 SF | | |
| | | | | 13554 SF | | 89 |
| Building total | | | | 27106 SF | | 948 |

| CODE PLAN LEGEND | |
|------------------|---|
| | NUMBER OF OCCUPANTS EXITING REQUIRED EXIT WIDTH EXIT WIDTH PROVIDED BY DESIGN |
| | EXT. - RATED PARTITION (IBC CH. 6) |
| | NON - RATED PARTITION |
| | 1 HR RATED PARTITION (IBC 708) |
| | 1 HR RATED BARRIER (IBC 707) |
| | 1 HR RATED SHAFT ENCLOSURE (IBC 713) |
| | ROOM NUMBER |
| | FIRE EXTINGUISHER CABINET OR SURFACE MTD. AT CONC. |
| | FIRE DEPARTMENT KNOX BOX (DEFER SUBMITTAL FOR LOC.) |
| | FIRE DEPARTMENT CONNECTION |
| | DOOR RATING |
| | DOOR WITH PANIC HARDWARE (SEE DOOR SCHEDULE) |
| | EXIT SIGNAGE: SEE ELECTRICAL |
| | EGRESS STARTING POINT |
| | EGRESS DISTANCE OF TRAVEL |
| | EGRESS DIRECTION OF TRAVEL |

| ROOF/CEILING ASSEMBLY - METAL | FLOOR/CEILING ASSEMBLY | INTERIOR PARTITION ASSEMBLIES (METAL-NON-RATED) |
|--|--|--|
| <div><div>EXTERIOR</div><div></div><div>INTERIOR</div></div> <div>METAL DECK - NON-RATED - TPO<ul style="list-style-type: none">TPO ROOFING PER SPECIFICATIONS, TO MEET IECCEPDM ROOFING MEMBRANE PER SPECIFICATIONSPRE-SLOPED POLYISO RIGID INSULATION FOR CRICKETSRIGID INSULATION, THICKNESS TO MEET IECC ROOFING REQUIREMENTSVAPOR BARRIERMETAL DECKING PER STRUCTURAL DWGS.STEEL JOISTS PER STRUCTURAL DWGS.<p>NOTES:</p><p>a. CRICKETS AS INDICATED ON ROOF PLAN TO BE FORMED OUT OF PRE-SLOPED POLYISO RIGID INSULATION. SLOPE TO DRAIN</p></div> <div>R38</div> | <div><div>F1</div><div>CONCRETE - NON-RATED - SLAB ON GRADE<ul style="list-style-type: none">CONCRETE SLAB ON GRADE PER STRUCT. DWGS.<p>NOTES:</p><p>a. SEE STRUCTURAL FOR REINFORCING AND THICKNESS</p><p>b. VERIFY SLAB ELEVATIONS WITH CIVIL AND LANDSCAPE</p></div><div><div>TOP OF FLOOR</div><div>F32</div><div>METAL DECK AND CONCRETE - 1HR<ul style="list-style-type: none">3" CONCRETE TOPPING SLAB PER STRUCT.WELDED WIRE FABRIC PER STRUCT. DWGS.1 1/2" METAL DECKING PER STRUCT. DWGS.<p>NOTES:</p><p>a. SHALL COMPLY WITH UL DESIGN D916 (MAY 16, 2023)</p></div><div><div>BOTTOM OF FLOOR</div><div>F51</div><div>METAL 2-1/2" C-H STUD - 1HR - HORIZ ASSEM<ul style="list-style-type: none">(1) LAYER 1" GWB LINER PANEL2-1/2" MIN C-H STUD @ 24" O.C. PER AER 09038(1) LAYER 5/8" TYPE 'C' GWB PER ASSEMBLY<p>NOTES:</p><p>a. ASSEMBLY TO COMPLY WITH AER 09038 (OCT 2021)</p><p>b. MAX SPAN TO BE PER AER 09038</p></div></div></div></div> | <div><div>FINISHED SIDE</div><div>P59</div><div>METAL 6" - NON-RATED - INTERIOR (INSIDE PILASTER)<ul style="list-style-type: none">6" METAL STUDS, SPACED 16" O.C. (GAUGE DETERMINED BY WALL HEIGHT)</div></div> <div><div>P52</div><div>METAL 3 5/8" STUD - NON-RATED PARTITION - INTERIOR SOUND DAMPENING<ul style="list-style-type: none">(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD(1) LAYER 1/2" RESILIENT CHANNEL, 25 MSG, SPACED 24" O.C.3-5/8" METAL STUDS SPACED 16" O.C. (GAUGE DETERMINED BY WALL HEIGHT)3-1/2" BATT INSULATION, NON FACED(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD<p>NOTES:</p><p>a. ATTACH GYPSUM WITH 1-1/4" TYPE 'W' STEEL SCREWS SPACED 12" O.C.</p></div></div> |
| | | <div><div>P70</div><div>METAL 6" STUD - 1HR BARRIER - INTERIOR<ul style="list-style-type: none">(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD PER UL(1) LAYER 1/2" RESILIENT CHANNEL, 25 MSG, SPACED 24" O.C.6" METAL STUDS SPACED PER UL AND STRUCTURAL ENGINEER (MIN 20 MSG)6" BATT INSULATION PER UL(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD PER UL<p>NOTES:</p><p>a. ASSEMBLY TO COMPLY WITH UL DESIGN U423 (FEB 14, 2022)</p><p>b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS</p><p>c. STC SHALL BE 50 OR OVER AT UNITS, MEETING ASTM E90 (STC 50 BASED UPON TESTING NGC 2013019 WITH STUDS SPACED 24" O.C.)</p><p>d. WHERE BARRIER IS USED FOR STRUCTURAL SHEAR, GC TO COORDINATE ADDITIONAL LAYERS OF STRUCTURAL MATERIAL PER STRUCTURAL DRAWINGS. THESE LAYERS TO BE ADDITIVE TO THE ASSEMBLY LISTED ABOVE AND SHALL BE INCORPORATED PER UL 263.</p></div></div> |
| | | <div><div>EXTERIOR SHAFT</div><div>P74</div><div>METAL 2 1/2" C-H STUD - 1HR RATED SHAFT - INTERIOR<ul style="list-style-type: none">(1) LAYER 5/8" TYPE 'X' GYPSUM BOARD PER UL2-1/2" C-H STUDS SPACED 24" O.C.(1) LAYER 1" SHAFT WALL LINER<p>NOTES:</p><p>a. ASSEMBLY TO COMPLY WITH UL DESIGN U415, SYSTEM A (FEB 14, 2022)</p><p>b. REFER TO UL FOR SCREW PATTERN AND OTHER REQUIREMENTS</p></div></div> |
| | | <div><div>EXTERIOR PARTITION ASSEMBLIES (METAL)</div></div> |
| | | <div><div><div>EXTERIOR FINISH, MATERIAL VARIES - SEE ELEVATIONS AND DETAILS</div><div>EXTERIOR</div><div>P80</div><div>INTERIOR</div></div><div>METAL 6" STUD - NON-RATED PARTITION - EXTERIOR<ul style="list-style-type: none">EXTERIOR FINISH SYSTEM PER ELEVATIONS - BRICK SHOWNWEATHER RESISTANT BARRIER PER SPECIFICATIONS(1) LAYER SHEATHING PER STRUCT. DRAWINGS6" METAL STUDS SPACED PER STRUCTURAL ENGINEER (MIN 20 MSG)BATT INSULATION PER IECC<p>NOTES:</p><p>a. R-11 MIN. INSULATION R-VALUE</p><p>b. STUD CAVITIES TO BE LEFT EXPOSED</p></div></div> |
| | | <div><div>INTERIOR ASSEMBLIES (CMU)</div></div> |
| | | <div><div>P40</div><div>CMU 8" BLOCK - 1HR FIRE BARRIER - INTERIOR<ul style="list-style-type: none">8" CMU (REINFORCING PER STRUCT)<p>NOTES:</p><p>a. RATING SHALL MEET IBC 2018 SECTION 721 - PRESCRIPTIVE FIRE RESISTANCE FOR 1HR RATING SHALL MEET TABLE 721.1(2).3. - CONCRETE MASONRY UNITS. ALL TIES. MORTAR TO MEET IBC SECTION 721.</p><p>b. APPLY WATERPROOFING AT ALL SUBGRADE PORTION OF WALLS</p></div></div> |



PRINTS ISSUED
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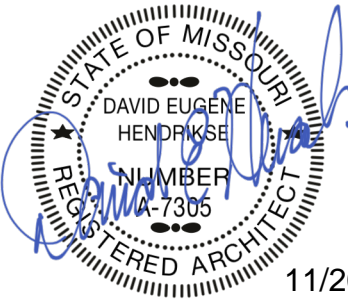
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THE VILLAGE AT DISCOVERY -
LOT 1

LEE'S SUMMIT, MO

SHEET TITLE
ASSEMBLIES

PROJECT NUMBER: 23096

SHEET NUMBER:

G-101



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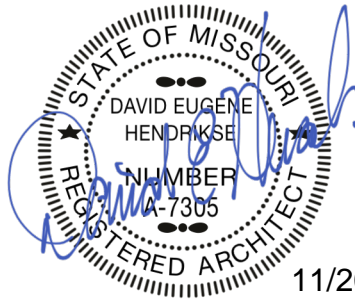
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11/20/24

THE VILLAGE AT DISCOVERY -

LOT 1

LEE'S SUMMIT, MO

SHEET TITLE


UL ASSEMBLIES - D916

PROJECT NUMBER: 23096

SHEET NUMBER:

G-204

| | | | |
|--|--|--|--|
| <p>B. Cellular Concrete — Roof Topping Mixture* — concentrate mixed with water and Portland cement per manufacturers specifications. Min. thickness of 2-in. as measured to the top surface of the structural concrete or foamed plastic (Item 10A) when used. Cast dry density and 28-day min. compressive strength of 190 psi as determined with ASTM C495— 66.</p> <p>AERIX INDUSTRIES — Cast dry density of 37 (+ or -) 3.0 pcf.</p> | | | |
| <p>CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.</p> | | | |
| <p>ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.</p> | | | |
| <p>C. Cellular Concrete-Roof Topping Mixture* — Concentrate mixed with water and Portland cement per manufacturers specifications. 28-day min. compressive strength of 190 psi as determined with ASTM C495-66.</p> <p>SIPLAST INC — Mix No. 1 or 2. Cast dry density of 32+3 (Mix No. 1) or 36+3 (Mix No. 2) pcf.</p> | | | |
| <p>D. Perlite Concrete — 6 cu ft. of Perlite Aggregate* to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min. thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 10A) when it is used.</p> <p>See Perlite Aggregate (CFFX) in Fire Resistance Directory for names of manufacturers.</p> | | | |
| <p>E. Cellular Concrete — Roof Topping Mixture* — Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86.</p> <p>AERIX INDUSTRIES — Mix No. 3.</p> | | | |
| <p>SIPLAST INC — Mix No. 3.</p> | | | |
| <p>F. Floor Topping Mixture* — (Optional, not shown) — Approx 4.5 gal of water to 41 lbs of NVS Premix floor topping mixture. Slurry coat 1/8 in. thickness beneath foamed plastic (Item 10) when used , 1 in. min topping thickness.</p> <p>SIPLAST INC</p> <p>Floor Topping Mixture may be covered with Built-Up or Single Membrane Roof Covering.</p> | | | |
| <p>10. Foamed Plastic* — (optional — Not Shown) For use only with vermiculite (Item 9A) or cellular (Item 9C) concretes — Rigid polystyrene foamed plastic insulation having slots and/or holes sandwiched between vermiculite concrete slurry which is applied to the normal or lightweight concrete surface and vermiculite concrete topping (Item 9A).</p> <p>SIPLAST INC</p> <p>VERMICULITE PRODUCTS INC</p> <p>10A. Foamed Plastic* — For use only with cellular concrete. Nominal 24 by 48 in. polystyrene foamed plastic insulation boards having a density of 1.0 + 0.1 pcf encapsulated within cellular concrete topping (Item 9B). Each insulation board shall contain six nominal 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC, transversely and 16 in. OC longitudinally.</p> <p>See Foamed Plastic* (BRYX) category in Building Materials Directory or Foamed Plastic* (CCVW) category in Fire Resistance Directory for list of manufacturers.</p> | | | |
| <p>11. Foamed Plastic* — (Optional, not shown). Polyisocyanurate roof insulation, applied over concrete floor with no restriction on insulation thickness. When polyisocyanurate insulation is used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.</p> | | | |
| <p>12. Metal Lath — (Not Shown) — (Required with Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC, otherwise optional) - Metal lath may be used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joist and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd is secured to both sides of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members spaced 15 in. OC max. When used, the metal lath is to be fully covered with Spray-Applied Fire Resistive.</p> <p>See Foamed Plastic (CCVW) category for list of manufacturers.</p> | | | |
| <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification</p> | | | |
| <p>(such as Canada), respectively.</p> <p>Last Updated on 2023-05-16</p> | | | |
| <p>The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.</p> <p>UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2023 UL LLC."</p> | | | |



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EXPIRES: DECEMBER 31, 2024

THE VILLAGE AT DISCOVERY -
LOT #1
LEE SUMMIT, MO 64064

SHEET TITLE
ROOF FRAMING PLAN

PROJECT NUMBER: 2023000333
SHEET NUMBER:


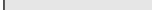



S102



1 ROOF FRAMING PLAN
S102 1/8" = 1'-0"

- ROOF FRAMING NOTES:
1. TOP OF STEEL BEAMS SHALL BE AT ELEVATION 137'-0" UNLESS NOTED THUS (+/- 0") ON PLAN
 2. SEE SHEETS S001 AND S002 FOR STRUCTURAL GENERAL NOTES
 3. SEE SHEET S002 FOR BEAM REACTION SCHEDULE
 4. LOCATION OF FLOOR AND ROOF PENETRATIONS TO BE DETERMINED. ADDITIONAL FRAMING MAY BE REQUIRED
 5. JOIST BRIDGING AND BRACING PER JOIST MANUFACTURER
 6. LOCATION OF STEEL FRAMING FOR SUPPORT OF ROOF TOP MECHANICAL UNITS AND PENETRATIONS MUST BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR BEFORE STEEL FABRICATION

PLAN LEGEND

| | |
|---|--------------------------------------|
|  | NON-RATED PARTITION; SEE ASSEMBLIES |
|  | 1 HR RATED PARTITION; SEE ASSEMBLIES |
|  | DOOR TYPE; SEE DOOR SCHEDULE |
|  | PARTITION TYPE; SEE ASSEMBLIES |
|  | FRAMING DIMENSIONS |

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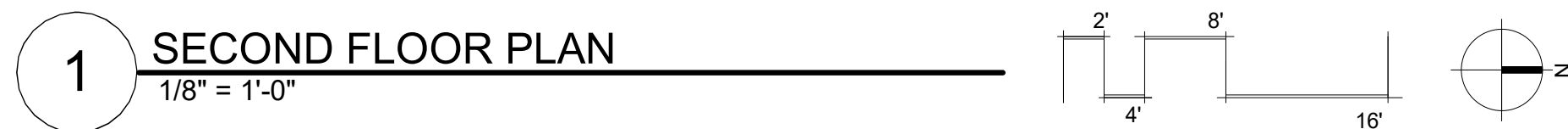
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A-102

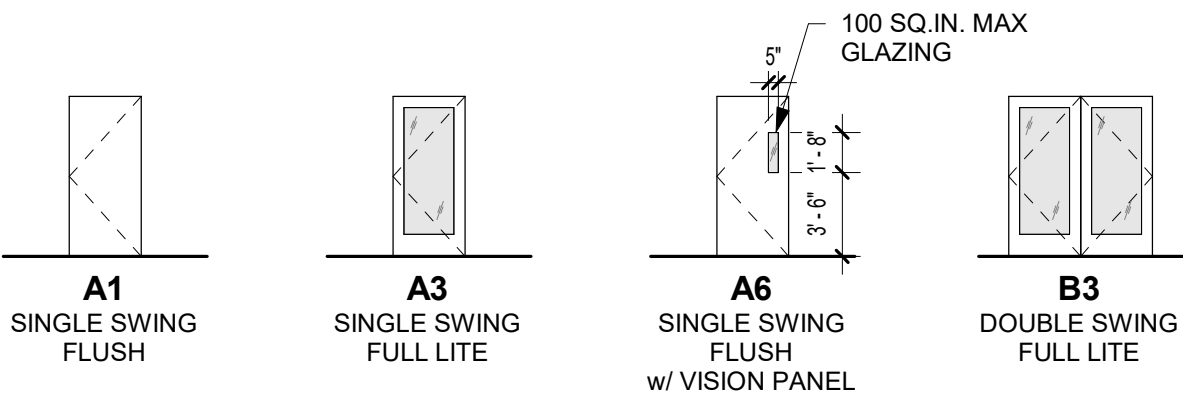


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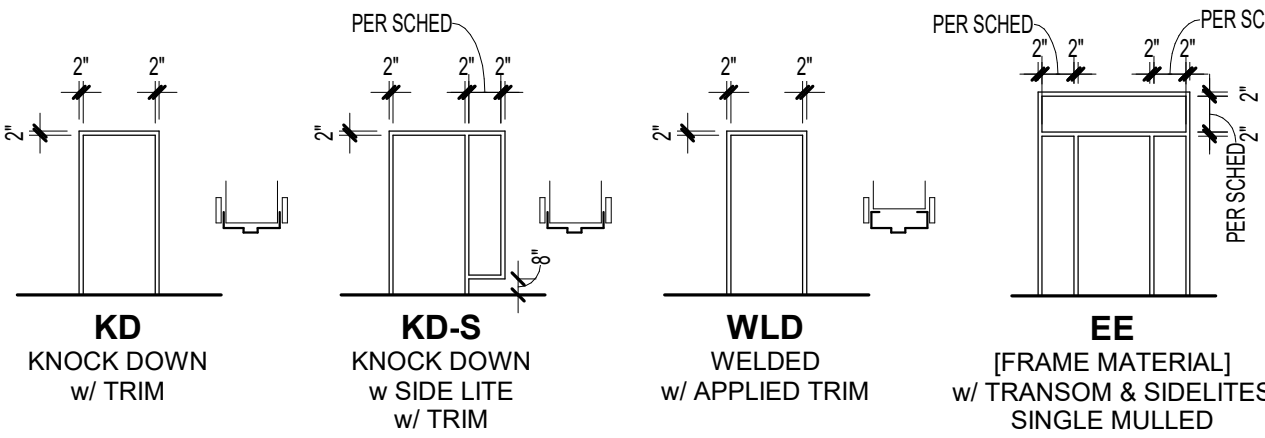
DOOR COMMENTS:

- BOTTOM RAIL TO BE MINIMUM 10" TO ALLOW FOR A 10" KICK PLATE; TYPICALL ALL DOORS.
- SEE SPECIFICATIONS FOR DOOR HARDWARE SCHEDULE; FINAL HARDWARE SCHEDULE AND FINAL GROUPS TO BE DETERMINED BY DOOR SUB-CONTRACTOR. VERIFY FINAL HARDWARE INSTALLATION WITH CLIENT AND ARCHITECT.
- DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
- DOOR FRAMES TO BE FINISHED PER SCHEDULE.
- VERIFY KEYING SCHEDULE WITH OWNER. ALL KEYS TO BE GIVEN TO OWNER AT SUBSTANTIAL COMPLETION.
- ALL DOOR HARDWARE TO BE LEVER TYPE HARDWARE, UNO.
- ALL COMMON AREA RATED DOORS TO HAVE SMOKE SEALS (GASKETS), CLOSURES, AND LATCH HARDWARE.

DOOR TYPES



FRAME TYPES



DOOR SCHEDULE ABBREVIATIONS:

| | | | | | | | |
|------|----------|----------------|------------------|----------------|------------------|---------|-----------|
| ALUM | ALUMINUM | FGL / FBG | FIBERGLASS | N/A | NOT APPLICABLE | STL | STEEL |
| ANO | ANODIZED | HC WOOD / HCWD | HOLLOW CORE WOOD | PER MFR | PER MANUFACTURER | WD CLAD | WOOD CLAD |
| BLK | BLACK | HM | HOLLOW METAL | PRE-FIN | PRE-FINISHED | | |
| BRZ | BRONZE | INSUL MTL | INSULATED METAL | PT / PTD | PAINTED | | |
| CLR | CLEAR | MTL | METAL | SC WOOD / SCWD | SOLID CORE WOOD | | |

DOOR SCHEDULE

| Door # | Location | Location | Width | Height | Thickness | Fire Rating (Minutes) | Panic Hardware | Door | | | Frame | | Comments |
|--------|------------|--------------|-------|--------|-----------|-----------------------|----------------|-----------|---------------|-------------|------------|--------------|----------|
| | | | | | | | | Door Type | Door Material | Door Finish | Frame Type | Frame Finish | |
| 1000 | LOBBY | EXTERIOR | 6'-0" | 7'-6" | 1 3/4" | | Yes | B3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 1001A | EXTERIOR | COMMERCIAL | 6'-0" | 7'-6" | 1 3/4" | | Yes | B3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 1001B | EXTERIOR | COMMERCIAL | 6'-0" | 7'-6" | 1 3/4" | | Yes | B3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 1001C | EXTERIOR | COMMERCIAL | 6'-0" | 7'-6" | 1 3/4" | | Yes | B3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 1001D | EXTERIOR | COMMERCIAL | 3'-0" | 7'-6" | 1 3/4" | | Yes | A3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 1001E | COMMERCIAL | EXTERIOR | 3'-0" | 7'-6" | 1 3/4" | | Yes | A3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 1001F | COMMERCIAL | EXTERIOR | 6'-0" | 7'-6" | 1 3/4" | | Yes | B3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 1002 | EXTERIOR | RISER ROOM | 3'-0" | 7'-0" | 1 3/4" | | No | A1 | HM | PTD | HM | PTD | |
| S1-1 | STAIR | EXTERIOR | 3'-0" | 7'-6" | 1 3/4" | | Yes | A3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| S2-1 | STAIR | EXTERIOR | 3'-0" | 7'-6" | 1 3/4" | | Yes | A3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 2000 | LOBBY | COMMERCIAL | 3'-0" | 7'-6" | 1 3/4" | | Yes | A3 | ALUM | PRE-FIN | ALUM | PRE-FIN | |
| 2002 | LOBBY | MECH./MAINT. | 3'-0" | 6'-8" | 1 3/4" | | No | A1 | HM | PTD | HM | PTD | |
| S1-2 | STAIR | LOBBY | 3'-0" | 6'-8" | 1 3/4" | | Yes | A6 | HM | PTD | HM | PTD | |
| S2-2 | STAIR | COMMERCIAL | 3'-0" | 6'-8" | 1 3/4" | | Yes | A6 | HM | PTD | HM | PTD | |

ROOM FINISH SCHEDULE

| Name | Floor Finish | Base Finish | Wall Finish | Ceiling Finish | Comments |
|--------------|--------------|-------------|-------------|----------------|----------|
| LOBBY | | | | | |
| STAIR | | | | | |
| ELEV. | | | | | |
| STAIR | | | | | |
| COMMERCIAL | | | | | |
| LOBBY | | | | | |
| STAIR | | | | | |
| MECH./MAINT. | | | | | |
| ELEV. | | | | | |
| STAIR | | | | | |
| COMMERCIAL | | | | | |
| RISER ROOM | | | | | |
| EXTERIOR | | | | | |
| COMMERCIAL | | | | | |

PUBLIC ROOM FINISH COMMENTS:

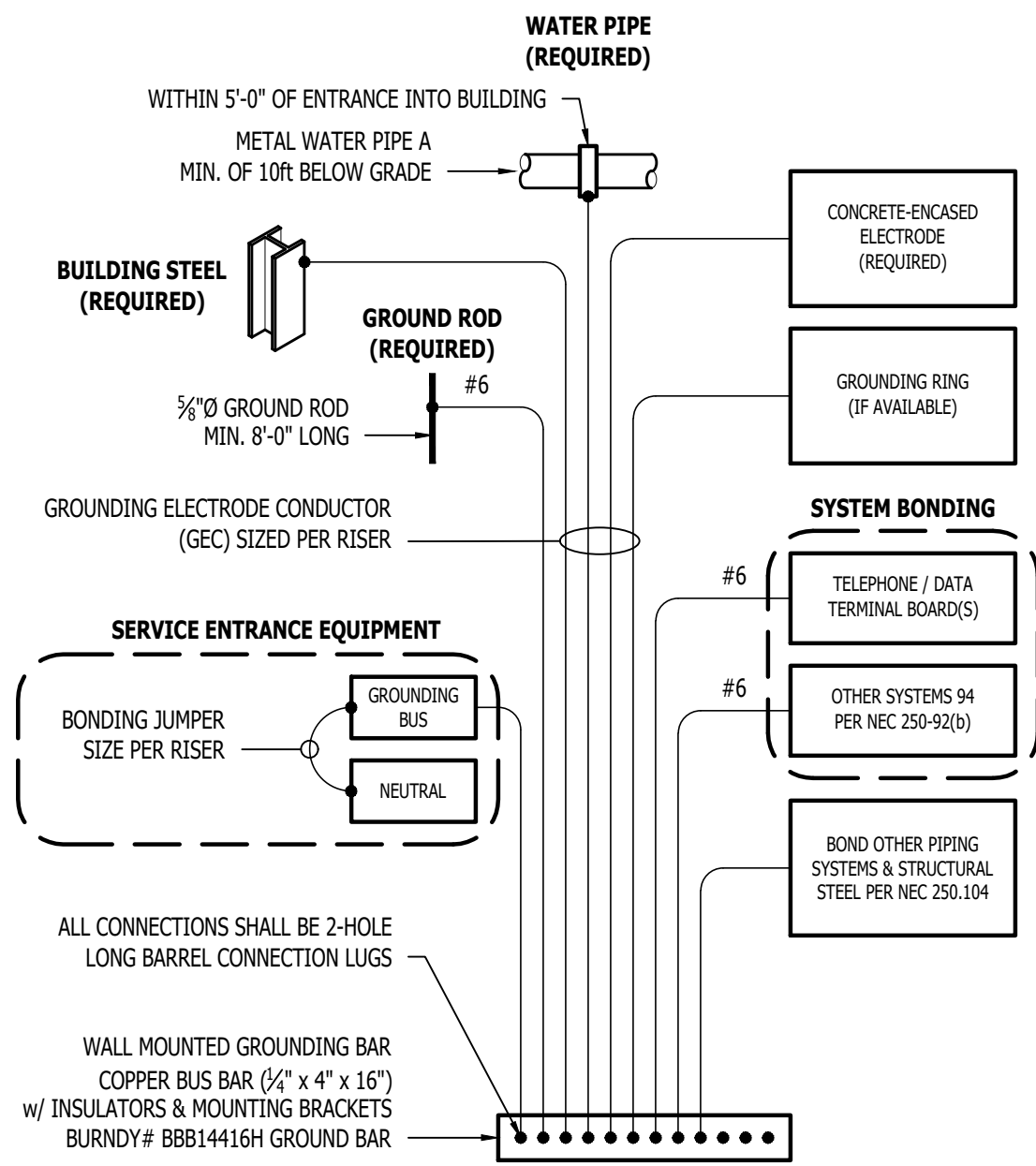
- PAINT BULKHEADS

GENERAL NOTES:

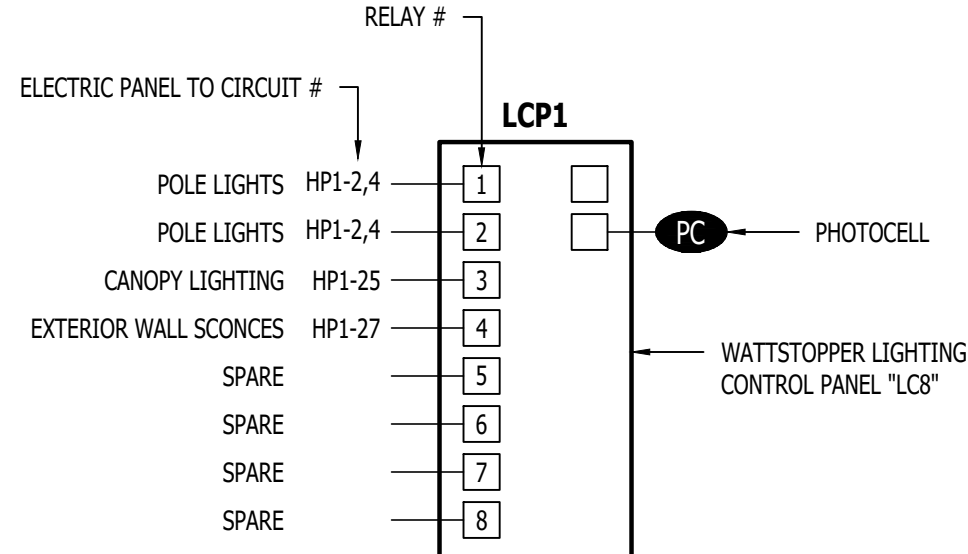
- BASE FINISH
A. RB-1 = VINYL TOED/TOELESS - STANDARD COLOR

ELECTRICAL SPECIFICATIONS

1. GENERAL
- 1.1. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PIECES AND COMPONENTS TO PROVIDE A COMPLETE AND COMPLIANT ELECTRICAL SYSTEM UNLESS OTHERWISE NOTED ON PLANS.
- 1.2. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
- 1.3. ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
- 1.4. PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
- 1.5. PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
2. WORKMANSHIP
- 2.1. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
- 2.2. ALL ELECTRICAL DEVICES AND LIGHT FIXTURES SHALL BE INSTALLED IN A SAFE, FIRST-CLASS MANNER WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
- CARE SHOULD BE TAKEN TO ALLOW FOR FUTURE REPLACEMENT AND ACCESS FOR SERVICE.
3. MATERIALS
- 3.1. CONDUIT & CONDUCTORS
- 3.1.1. ALL CONDUCTORS SIZES INDICATED ARE COPPER UNLESS NOTED OTHERWISE ON PLANS.
- 3.1.2. ABOVE GRADE CONDUCTORS SHALL BE TYPE THHN.
- 3.1.3. BELOW GRADE CONDUCTORS SHALL BE TYPE XHHW-2.
- 3.1.4. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 120-VOLT, 20-AMP CIRCUITS WITH CONDUCTOR LENGTHS GREATER THAN 100' SHALL BE #10 AWG MINIMUM.
- 3.1.5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
- 3.1.6. RIGID GALVANIZED OR SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR SERVICE WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER.
- 3.1.7. IN APPLICATIONS OTHER THAN THOSE LISTED IN 3.1.4, EMT OR MC CABLE IS ACCEPTABLE.
- 3.1.8. WHERE CONDUCTORS ARE PROTECTED FROM DAMAGE, ENCLOSED IN BUILDING MATERIALS, AND CONSTRUCTION IS OF A PERMITTED TYPE, NM CABLE MAY BE USED.
- 3.1.9. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALL CONSTRUCTION, OR PRE-MANUFACTURED WALL SYSTEMS, COORDINATE EXACT LOCATIONS OF ALL DEVICES WITHIN WALLS WITH WALL SUPPLIER.
- 3.1.10. CONDUIT EMBEDDED IN WALLS SHALL BE SCHEDULE 80 PVC OR LFMC, OR OTHER SYSTEM APPROVED BY WALL MANUFACTURER.
- 3.1.11. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES, VERIFY COLOR WITH ARCHITECT/OWNER.
- 3.2. DEVICES
- 3.2.1. CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
- 3.2.2. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20-AMP, EQUAL TO LEVITON #TBR-20.
- 3.2.3. SINGLE POLE TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2.
- 3.2.4. THREE-WAY TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS320-2.
- 3.2.5. DIMMER SWITCHES SHALL BE TESTED WITH FIXTURES AND LAMPS FOR COMPATIBILITY. SEE LIGHTING PLANS FOR DETAILS.
- 3.2.6. WHERE GFCI PROTECTION IS SHOWN ON PLANS AND UNLESS OTHERWISE NOTED, PROVIDE A LISTED GFCI-PROTECTED RECEPTACLE WHERE THE RECEPTACLE IS ACCESSIBLE ON PLANS. IF THE RECEPTACLE LOCATION IS NOT ACCESSIBLE AS DEFINED BY NEC, PROVIDE GFCI PROTECTION AT CIRCUIT BREAKER.
- 3.2.7. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF HVAC DIFFUSERS/GRILLES OR SIMILAR OBSTRUCTION THAT MAY AFFECT SENSOR FUNCTIONALITY. ALL SENSORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 3.2.8. ALL APPLICABLE SWITCHES, RECEPTACLES, CONTROLS, ETC. SHALL BE MOUNTED AT ADA-ACCESSIBLE HEIGHTS.
- 3.2.9. WIRING DEVICES SHOWN ON PLANS NEXT TO ONE ANOTHER SHALL UTILIZE A SINGLE COVER PLATE UNLESS NOTED OTHERWISE.
- 3.3. WIRING DEVICES SHOWN BACK-TO-BACK ON EACH SIDE OF A WALL SHALL BE OFFSET TO REDUCE SOUND TRANSMISSION.
- 3.4. EACH RECEPTACLE COVER SHALL BE NEATLY AND LEGIBLY LABELED WITH CORRESPONDING PANEL AND CIRCUIT NUMBER FOR CIRCUIT IDENTIFICATION.
4. EMERGENCY LIGHTING
- 4.1. BRANCH CIRCUIT FEEDING EMERGENCY FIXTURE(S) SHALL BE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN SAME AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.
- 4.2. EMERGENCY LIGHTING SYSTEM SHALL PROVIDE 1FC AVERAGE AND 0.1FC MINIMUM ALONG EGRESS PATHS. ADJUST ANY EMERGENCY FIXTURES AS NECESSARY TO PROVIDE PROPER ILLUMINATION WITHOUT OBSTRUCTION FROM FURNITURE OR OBSTACLES.



TYPICAL GROUNDING & BONDING DETAIL



LIGHTING CONTROL PANEL SCHEDULE

| RELAY # | OVERRIDE SWITCH | OPERATIONAL SCHEDULE |
|---------|-----------------|-----------------------------------|
| 1 | NO | ON DURING NIGHT HOURS (PHOTOCELL) |
| 2 | NO | ON DURING NIGHT HOURS (PHOTOCELL) |
| 3 | NO | ON DURING NIGHT HOURS (PHOTOCELL) |
| 4 | NO | ON DURING NIGHT HOURS (PHOTOCELL) |
| 5 | - | - |
| 6 | - | - |
| 7 | - | - |
| 8 | - | - |

LIGHTING CONTROL PANEL

| LIGHT FIXTURE SCHEDULE | | | | | | | | | | |
|------------------------|-------------------------|-----------------------------------|----------------------------------|-------------------|--------------|----------|-----|----------|-------|---|
| TAG | MANUFACTURER (OR EQUAL) | MODEL NUMBER (OR EQUAL) | DESCRIPTION | MOUNTING | LUMEN OUTPUT | CCT (°K) | CRI | VOLTA GE | WATTS | NOTES |
| C1 | HALO | SLD61295E010MW | 6" LED SURFACE CAN | CEILING / SURFACE | 1200 | 3500 | 90 | 120 | 15 | |
| C2 | HALO | SLD61295E010MW | 6" LED SURFACE CAN | CANOPY / SURFACE | 1215 | 4000 | 90 | 120 | 15 | WITH PAINTABLE TRIM; PAINT TO MATCH UNDERSIDE OF CANOPY |
| E1 | SURE LITES | APCH7R | INTERIOR EXIT LIGHT WITH HEADS | WALL / CEILING | - | - | - | UNV | 1 | WITH RED LETTERS |
| E2 | SURE LITES | APCH7R WITH APWR2 | INTR EXIT LIGHT WITH EXTR RMT HD | SURFACE / CEILING | - | - | - | UNV | 1 | WITH RED LETTERS |
| E3 | SURE LITES | APEL | EMERGENCY EGRESS LIGHT | SURFACE / WALL | - | - | - | UNV | 1 | MOUNT AT 8' A.F.F. |
| W1 | METALLUX | 4SNX-SL3-LW-UNV-CC83-CD-1-FKO-U | 4' LED WALL BRACKET | SURFACE / WALL | 4000 | 3500 | 85 | 120 | 42 | WITH 'EL14W' BATTERY BACKUP WHERE INDICATED |
| W2 | TECH LIGHTING | 7000WVEX94042UNV | UP/DOWN WALL SCONCE | EXTERIOR WALL | 554 | 4000 | 90 | 120 | 19 | |
| W3 | METALLUX | 4VT3-LD5-8-G-UNV-EL10W-L840-CD1-U | 4' VAPORTITE LED | ELEVATOR PIT | 8694 | 4000 | 80 | 120 | 67 | |

NOTES:

1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.

2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES THROUGHOUT. COORDINATE EXACT MOUNTING DETAILS WITH GENERAL CONTRACTOR.

3. CONTACT JUSTIN HATFIELD (573) 289-0880 (JHATFIELD@LAIWEB.NET) OR PAUL WARNER (314) 531-3500 (PWARNER@LAIWEB.NET) AT LIGHTING ASSOCIATES FOR NATIONAL ACCOUNT DETAILS.

4. CONTACT TRAVIS VOGT (471) 621-5210 (TVOGT@CED1135.COM) AT CED-PHILLIPS & COMPANY FOR NATIONAL ACCOUNT DETAILS.

| HOUSE ELECTRICAL PANEL 'HP1' SCHEDULE | | | | | | | | | | |
|---------------------------------------|-------------------------------|--------------|-------------------------|-------|------|----------------------------|---------------------|----------------|--|--|
| PANEL SPECIFICATIONS | | | | | | TOTAL CONNECTED LOAD | | | | |
| VOLTAGE: 120/208V 3-PH | | | NEMA RATING: 1 | | | PHASE "A" LOAD: 137.5 AMPS | | | | |
| AMPACITY: 225A MLO | | | PANEL MOUNTING: SURFACE | | | PHASE "B" LOAD: 114 AMPS | | | | |
| AIC-RATING: 10kA | | | | | | PHASE "C" LOAD: 136 AMPS | | | | |
| CIRCUIT NUMBER | DESCRIPTION | BREAKER SIZE | AMPS | PHASE | AMPS | BREAKER SIZE | DESCRIPTION | CIRCUIT NUMBER | | |
| 1 | ROOFTOP RECEPTS. | 20-1 | 4.5 | A | 6 | 20-2 | POLE LIGHTS | 2 | | |
| 3 | ELEVATOR SUMP PUMP RECEPT. | 20-1 | 8 | B | 6 | - | - | 4 | | |
| 5 | ELEVATOR PIT RECEPTS. | 20-1 | 3 | C | 41 | 60-2 | AHU-1 | 6 | | |
| 7 | EXTERIOR RECEPTS. | 20-1 | 6 | A | 41 | - | - | 8 | | |
| 9 | EXTERIOR RECEPTS. | 20-1 | 6 | B | 14 | 25-2 | CU-1 | 10 | | |
| 11 | ACCESS CONTROLS | 20-1 | 3 | C | 14 | - | - | 12 | | |
| 13 | RISER ROOM RECEPTS. | 20-1 | 6 | A | 14 | 20-2 | WALL HEATER | 14 | | |
| 15 | FACP | 20-1 | 1 | B | 14 | - | - | 16 | | |
| 17 | LOBBY RECEPTS. | 20-1 | 3 | C | 14 | 20-2 | WALL HEATER | 18 | | |
| 19 | LIGHTING CONTROL PANEL 'LCP1' | 20-1 | 1 | A | 14 | - | - | 20 | | |
| 21 | INTERIOR LIGHTING | 20-1 | 3 | B | 14 | 20-2 | WALL HEATER | 22 | | |
| 23 | STAIRTOWER LIGHTING | 20-1 | 4 | C | 14 | - | - | 24 | | |
| 25 | EXTERIOR LIGHTING | 20-1 | 5 | A | 40 | 60-3 | ELEVATOR | 26 | | |
| 27 | EXTERIOR LIGHTING | 20-1 | 5 | B | 40 | - | - | 28 | | |
| 29 | SPARE | 20-1 | | C | 40 | - | - | 30 | | |
| 31 | SPARE | 20-1 | | A | | ST | SHUNT TRIP SPACE | 32 | | |
| 33 | SPARE | 20-1 | | B | 3 | 20-1 ST | ELEVATOR CAB LIGHTS | 34 | | |
| 35 | SPARE | 20-1 | | C | | ST | SHUNT TRIP SPACE | 36 | | |
| 37 | SPARE | 20-1 | | A | | | OPEN | 38 | | |
| 39 | SPARE | 20-1 | | B | | | OPEN | 40 | | |
| 41 | SPARE | 20-1 | | C | | | OPEN | 42 | | |

NOTES:

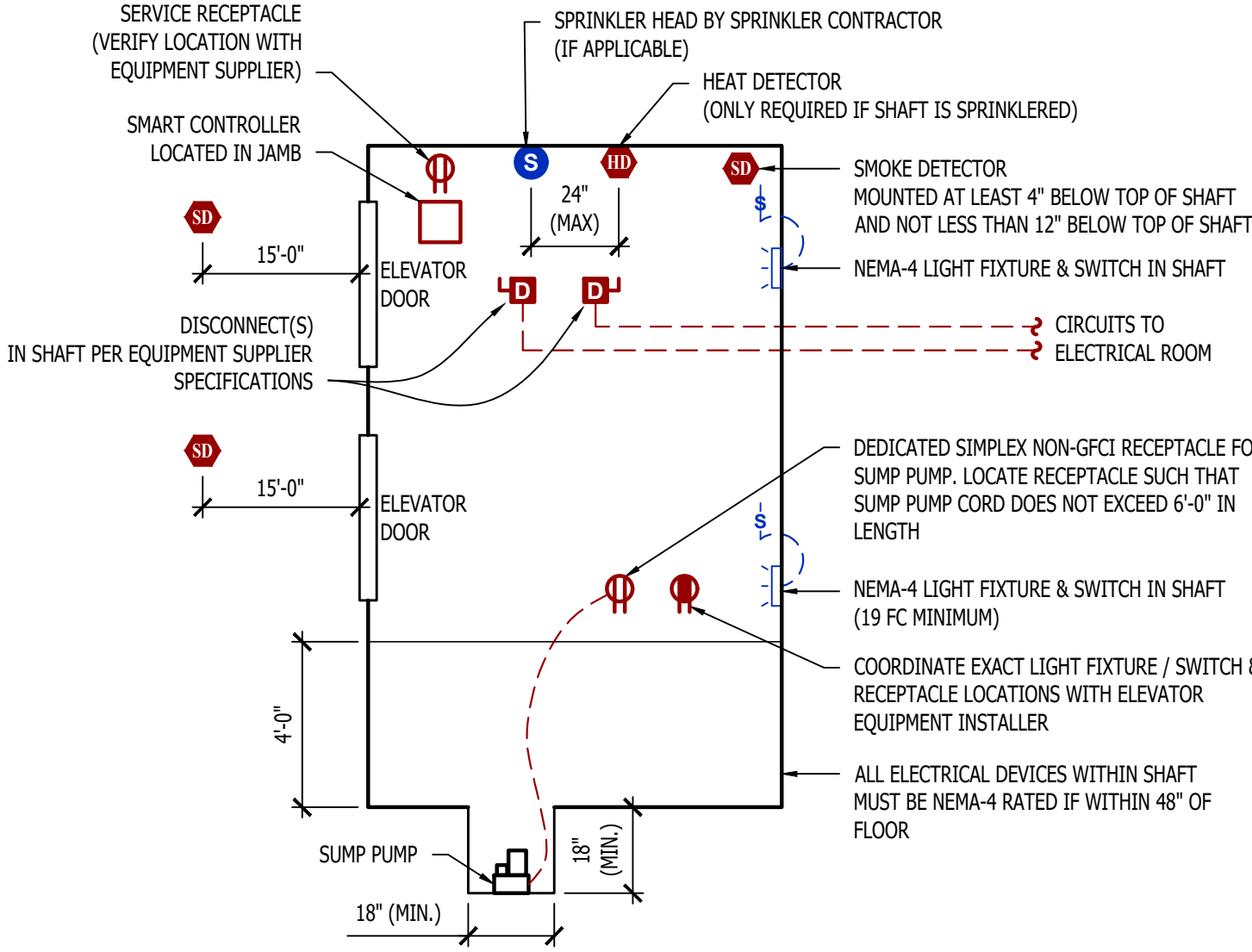
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"

B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.

C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

NOTES:

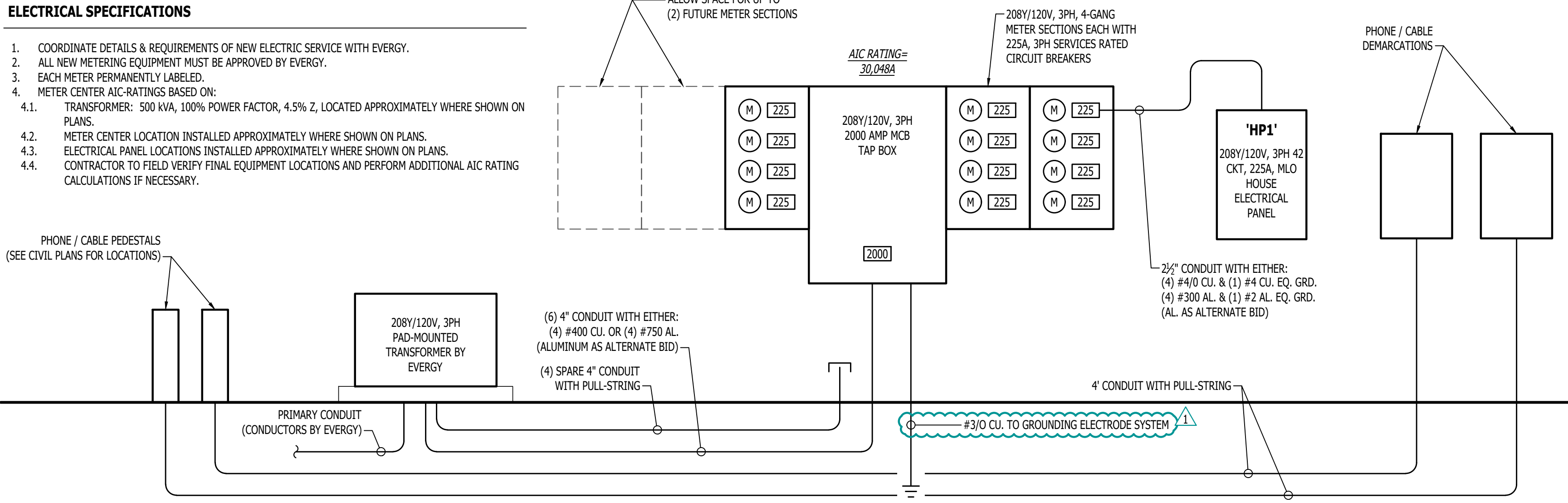
1. ALL MATERIALS LOCATED WITHIN ELEVATOR SHAFT MUST BE OF NON-COMBUSTIBLE MATERIAL.
2. ALL ELECTRICAL CONDUCTORS WITHIN ELEVATOR PIT MUST COMPLY WITH NEC 620.21.
3. SUMP PUMP RECEPTACLE, SHAFT / PIT RECEPTACLES, & SHAFT LIGHTING TO ALL BE ON EMERGENCY POWER IF ELEVATOR IS ON EMERGENCY POWER.
4. ADDITIONAL SMOKE DETECTOR REQUIRED IN ELEVATOR MACHINE ROOM (IF APPLICABLE).
5. IN CASES WHERE ELEVATOR IS NOT SHUNT-TRIP PROTECTED, A LABELED SPRINKLER SHUT-OFF MUST BE LOCATED OUTSIDE THE ELEVATOR HOISTWAY AND/OR EQUIPMENT ROOM.
6. PERMANENTLY LABEL ALL CIRCUITS AND FEEDERS.
7. SUMP PUMP DISCHARGE LINE SHALL BE HARD PIPED (NO PVC).



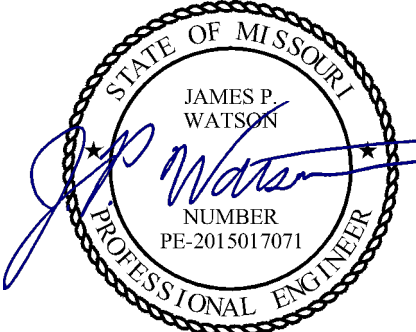
MACHINE - ROOM - LESS ELEVATOR DETAIL

ELECTRICAL SPECIFICATIONS

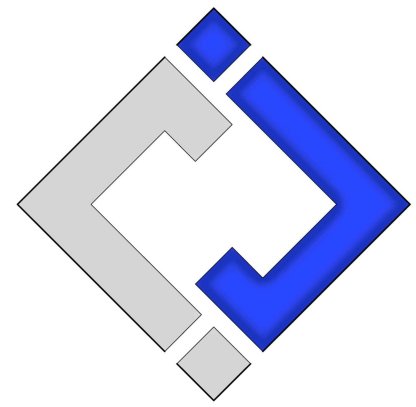
1. COORDINATE DETAILS & REQUIREMENTS OF NEW ELECTRIC SERVICE WITH EVERGY.
2. ALL NEW METERING EQUIPMENT MUST BE APPROVED BY EVERGY.
3. EACH METER PERMANENTLY LABELED.
4. METER CENTER AIC-RATINGS BASED ON:
- 4.1. TRANSFORMER: 500 KVA, 100% POWER FACTOR, 4.5% Z, LOCATED APPROXIMATELY WHERE SHOWN ON PLANS.
- 4.2. METER CENTER LOCATION INSTALLED APPROXIMATELY WHERE SHOWN ON PLANS.
- 4.3. ELECTRICAL PANEL LOCATIONS INSTALLED APPROXIMATELY WHERE SHOWN ON PLANS.
- 4.4. CONTRACTOR TO FIELD VERIFY FINAL EQUIPMENT LOCATIONS AND PERFORM ADDITIONAL AIC RATING CALCULATIONS IF NECESSARY.



POWER RISER - METER CENTER #2



James Watson, P.E. December 12, 2024
PE-2015017071
MO Certificate of Authority # 2018029680



J-SQUARED
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J2 PROJECT No: J21003

J2 DESIGN: ACW

ISSUE TITLE DATE

CITY SUBMITTAL 11 - 20 - 2024

CITY COMMENTS 12 - 12 - 2024

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Village at Discovery Park Lot 1

221 NE Alura Way
Lee's Summit, Jackson County, MO 64064

A4H APPROVAL STAMP

SHEET TITLE

ELECTRICAL DETAILS &
SCHEDULES

SHEET NUMBER

E501