| | | | ELE | ECTRICAL LEGEND | | | |
|---|--|--|---|--|--|--|---------------------|
| ABB | REVIATIONS | | | SYMBOLS | | | |
| | LP LIGHTING PANEL | POWER | CIRCUIT PROTECTION | TELEPHONE/ DATA | | LIGHTING | |
| 1P ONE POLE 2P TWO POLE 3P THREE POLE | LTG LIGHTING MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER | OUPLEX RECEPTACLE WITH INTEGRAL DUPLEX USB PORTS | S _M MANUAL MOTOR STARTER | DATA OUTLET | LIGHTING CONTROL S. S. S. SINGLE POLE, THREE-WAY, FOUR-WAY | (NOTE: UPPER CASE LETTER INDICATES INDICATES ZONE) | TYPE, LOWER CASE LE |
| 4P FOUR POLE A AMPERE | MDP MAIN DISTRIBUTION PANEL MDF MAIN DISTRIBUTION FRAME (IT) | DUPLEX RECEPTACLE | DISCONNECT SWITCH, UNFUSED TYPE | WAP 🕥 WIRELESS ACCESS POINT, CEILING MOUNTED | S S ₃ S ₄ SWITCHES B A S _D SWITCH WITH PILOT LIGHT $COc \square b$ | | |
| AB ABOVE CEILING AC ABOVE COUNTER | (ME) MODIFY EXISTING MISC MISCELLANEOUS | DUPLEX GROUND FAULT RECEPTACLE | DISCONNECT SWITCH, FUSED TYPE | | -P | Ja 7 | |
| AFCI ARC FAULT CIRCUIT INTERRUPTER AFF ABOVE FINISHED FLOOR | MLO MAIN LUGS ONLY MOA MULTI-OUTLET ASSEMBLY | QUADRAPLEX RECEPTACLE | COMBINATION MOTOR STARTER | <u>AUDIO-VISUAL</u> | S _T TIMER SWITCH EM | EMERGENCY BATTERY PACK | |
| AIC AMPS INTERRUPTING CURRENT AFG ABOVE FINISHED GRADE | MTD MOUNTED MTG MOUNTING | Image: Constraint of the sector of the sec | | AV JUNCTION BOX (FLOOR, CEILING, WALL) AV AV AV PROVIDE BOX AND CONDUIT AS PER AV DRAWI | S _D SINGLE POLE (ELV) DIMMING SWITCH X⊗ X X X X X X X X X X X X | EXIT SIGN | |
| ARCH ARCHITECT ATS AUTOMATIC TRANSFER SWITCH | MTS MANUAL TRANSFER SWITCH | SINGLE RECEPTACLE - SPECIAL PURPOSE (AS NOTED ON DRAWINGS) | FIRE ALARM | | SOS SVS SWITCHBOX MOUNTED OCCUPANCY, VACANCY | LIGHTING FIXTURE ON EMERGENCY | |
| ATC AUTOMATIC TEMPERATURE CONTROL SYS | TEM N/A NOT APPLICABLE NAC NOTIFICATION APPLIANCE CIRCUIT PAN | | F FIRE ALARM MANUAL PULL STATION | MISCELLANEOUS | S _{LV#} LOW VOLTAGE SWITCH | | |
| BAS BUILDING AUTOMATION SYSTEM BLDG BUILDING | NEC NATIONAL ELECTRICAL CODE N/E NORMAL/EMERGENCY | FLOORBOX WITH DUPLEX, QUADRAPLEX RECEPTACLE | FIRE ALARM AUDIBLE AND STROBE LIGHT COMBINATION | WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT | SWS# LIGHTING CONTROL WALLSTATION | | |
| C CONDUIT CATV CABLE TELEVISION | NIC NOT IN CONTRACT # NUMBER | | FIRE ALARM STROBE LIGHT | NIC - DEVICES, WIRING, AND RACEWAY SHALL B | BE S OS OCUPANCY SENSOR (CEILING, WALL) | | |
| CB CIRCUIT BREAKER CKT CIRCUIT CP CORD AND PLUG | NTS NOT TO SCALE OCPD OVERCURRENT PROTECTIVE DEVICE | PB PULL BOX | FINE ALARM AUDIBLE | EXISTING TO REMAIN, UNLESS NOTED OTHERW | | | |
| C.T. CURRENT TRANSFORMER DISC DISCONNECT | P POLE PB PULL BOX PH PHASE | HH HANDHOLE | S SMOKE DETECTOR | NEW WORK | S SH PHOTO SENSOR (CEILING, WALL) | | |
| DWG DRAWING (E) EXISTING TO REMAIN EC ELECTRICAL CONTRACTOR | PNL PANEL PVC POLYVINYL CHLORIDE CONDUIT | ✓ MOTOR | Heat detectorD duct mounted smoke detector | EXISTING TO REMAIN DEMOLITION | | | |
| EC ELECTRICAL CONTRACTOR EMT ELECTRICAL METALLIC TUBING (ER) EXISTING TO BE RELOCATED | PWR POWER (R) REMOVE EXISTING (RE) RELOCATE EXISTING | T TRANSFORMER | FACP FIRE ALARM CONTROL PANEL | | | | |
| FA FIRE ALARM FAAP FIRE ALARM ANNUNCIATOR PANEL | (RE) RELOCATE EXISTING REC RECESSED ROR RATE OF RISE | HCH HANDICAPPED PUSHBUTTON | FAAP FIRE ALARM ANNUNCIATOR PANEL | | ELECTRICAL DRAWING SCH | EDUI E BUII DING 1 AND | 2 |
| FACP FIRE ALARM CONTROL PANEL FBO FURNISHED BY OWNER FLA FULL LOAD AMPS | RMC RIGID METAL CONDUIT SFL SUB FEED LUGS SLC SIGNALING LINE CIRCUIT | TAG EQUIPMENT CONNECTION | NAC NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL FS TS SPRINKLER FLOW SWITCH, TAMPER | | | DESIGN DEVELOPMENT BID SE | |
| FT FIXED TEMPERATURE FTL FEED THROUGH LUGS | SWB SWITCHBOARD TC TIME CLOCK | | FS TS SPRINKLER FLOW SWITCH, TAMPER SWITCH MONITORING MODULES | | Sheet Number Sheet Name | 10/11/2023 11/30/20 | 023 1/12/2024 |
| GC GENERAL CONTRACTOR GFCI GROUND FAULT CIRCUIT INTERRUPTER | TEL/DATA TELEPHONE/DATA | PANELBOARDS | FMM FRM FIRE ALARM MONITOR, RELAY MODULES | 3 | E0.00ELECTRICAL COVER SHEET BUILDING 1 AND 2E2.01BUILDING 1 ELECTRICAL DEMOLITION PLAN | • • | |
| GND GROUNDED | TEL TELEPHONE TVSS TRANSIENT VOLTAGE SURGE SUPPRES | SCION | | | E3.00 BUILDING 1 ELECTRICAL BASEMENT / GROUND FLOOR | • • | |
| GRC GALVANIZED RIGID CONDUIT HP HORSEPOWER | TYP TYPICAL | SURFACE MOUNTED ELECTRICAL PANELBOA | RD <u>SECURITY</u> | | E3.01 BUILDING 1 ELECTRICAL ROOF PLAN | • • | • |
| IDF INTERMEDIATE DISTRIBUTION FRAME (IT) | UON UNLESS OTHERWISE NOTED UL UNDERWRITERS LABORATORY | RECESSED MOUNTED ELECTRICAL PANELBO | ARD CR CARD READER | | E3.02 BUILDING 2 ELECTRICAL FLOOR PLANS | • • | |
| IG ISOLATED GROUND | V VOLT | SYSTEMS PANEL OR TERMINAL CABINET | KP KEYPAD | | E3.03 BUILDING 1 ELECTRICAL RCP E3.04 BUILDING 1 AND 2 ELECTRICAL SITE PLAN | • • | • |
| IMC INTERMEDIATE METAL CONDUIT JB JUNCTION BOX | W WATT | (AS NOTED ON DRAWINGS) | | | E7.01 BUILDING 1 ELECTRICAL SCHEDULES | | • |
| KCMIL THOUSAND CIRCULAR MILS | WP WEATHERPROOF WR WEATHER RESISTANT | XX/## CIRCUIT DESIGNATION | ES ELECTRIC STRIKE | | E8.00 BUILDING 1 ELECTRICAL DETAILS | • | • |
| | XFMR TRANSFORMER | | EL ELECTRIC LOCK | | | · · · · · | |
| KW KILOWATT LED LIGHT EMITTING DIODE | + INDICATES MOUNTED ABOVE COUNTEF #1/E5.1 DETAIL NUMBER/DRAWING NUMBER | | DC DOOR CONTACT | | | | |

| | | LIGHTING |
|--|-------------|--|
| <u>TROL</u> THREE-WAY, FOUR-WAY | в А | (NOTE: UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES ZONE) |
| PILOT LIGHT C | | CEILING MOUNTED LIGHTING FIXTURE |
| l | ЕМ 🌄 | EMERGENCY BATTERY PACK |
| ELV) DIMMING SWITCH | X⊗ X 💇 X ⊗H | EXIT SIGN |
| OUNTED OCCUPANCY, VACANCY OVERRIDE SWITCH | | LIGHTING FIXTURE ON EMERGENCY |
| SWITCH | | |
| TROL WALLSTATION | | |
| ENSOR (CEILING, WALL) | | |
| SOR (CEILING, WALL) | | |



ARCHITECT

215.268.3820

215-482-1133 _____

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ISSUED FOR 80% CONSTRUCTION DOCUMENT SET 1/12/24

ELECTRICAL COVER SHEET BUILDING 1 AND 2

SCALE: 12" = 1'-0"

LAWNCREST **RECREATION CENTER**

6000 RISING SUN AVE PHILADELPHIA, PA 19111

PROPERTY OWNER PHILADELPHIA PARK AND RECREATION COMMUNITY VENTURES 1515 ARCH STREET, 10TH FLOOR PHILADELPHIA, PA 19102

PROJECT USER 1501 CHERRY STREET PHILADELPHIA, PA 19102

SITIO architecture + urbanism 2104 MARKET ST, 3RD FLOOR PHILADELPHIA, PA 19103

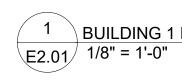
- CIVIL ENGINEER **MELIORA** 259 MORGAN STREET PHOENIXVILLE, PA 19460 610-933-0123
- LANDSCAPE ARCHITECT SALT DESIGN STUDIO 161 LEVERINGTON AVE, SUITE 1005 PHILADELPHIA, PA 19127 215-621-7600
- STRUCTURAL ENGINEER HUNT ENGINEERING 22 E KING STREET MALVERN, PA 19125 610-644-4600
- MEP + FP ENGINEERING J&M ENGINEERING 11 W THOMPSON STREET PHILADELPHIA, PA 19125 215-454-2662
- SUSTAINABILITY CONSULTANT **RE:VISION ARCHITECTURE** 133 GRAPE STREET PHILADELPHIA, PA 19127
- COMMISSIONING GREYHAWK 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

KEYPLAN

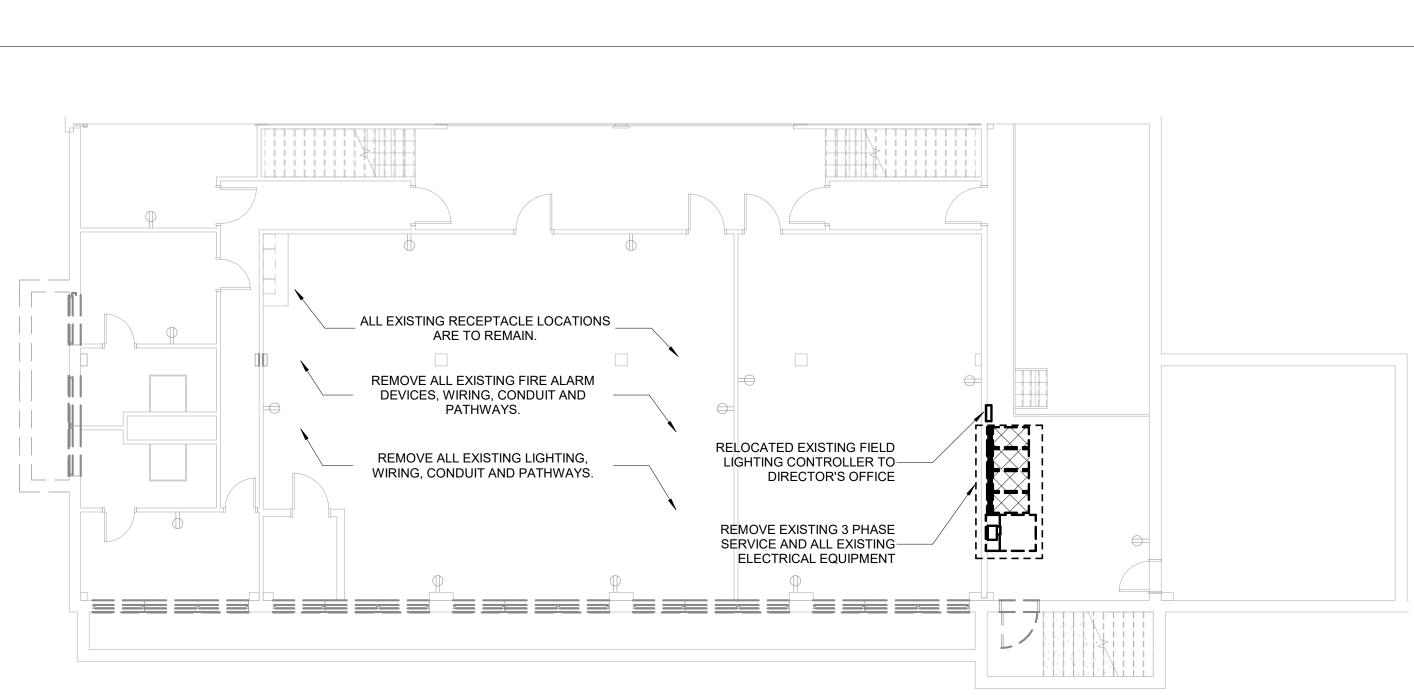
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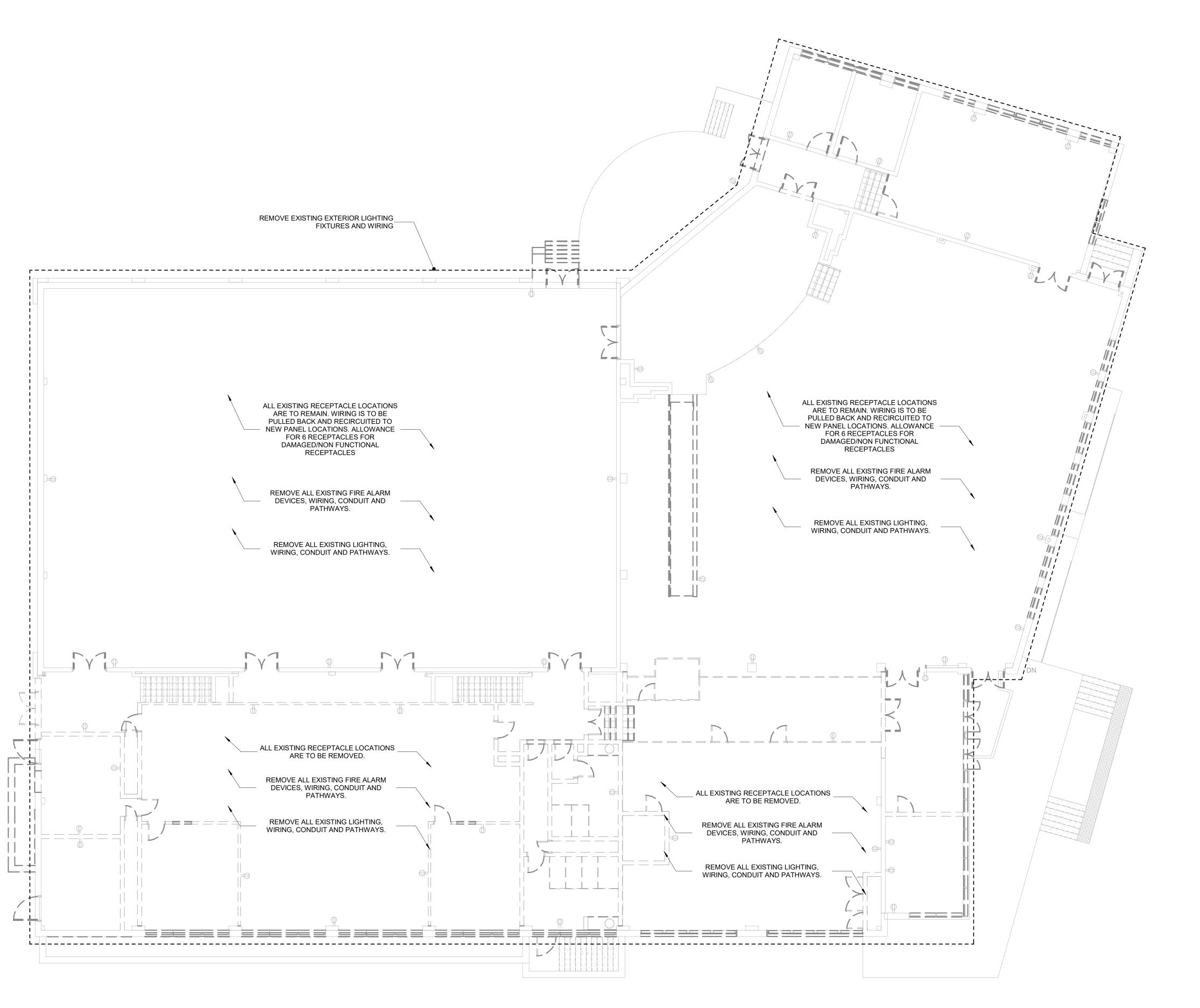
E0.00











ISSUED FOR 1/12/24

BUILDING 1 ELECTRICAL DEMOLITION PLAN

LAWNCREST **RECREATION CENTER**

6000 RISING SUN AVE PHILADELPHIA, PA 19111

PROPERTY OWNER PHILADELPHIA PARK AND RECREATION COMMUNITY VENTURES 1515 ARCH STREET, 10TH FLOOR PHILADELPHIA, PA 19102

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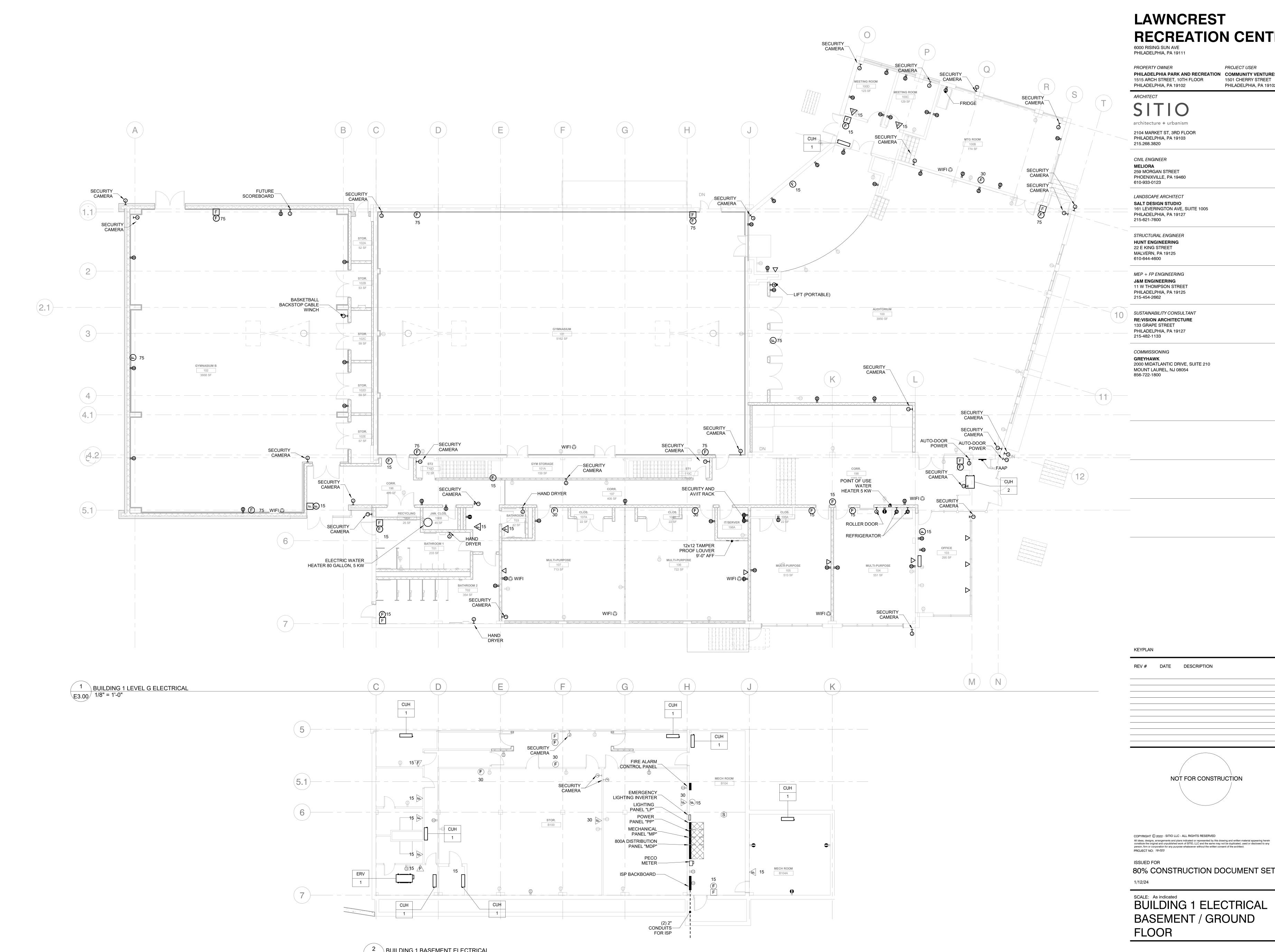
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E2.01



2 BUILDING 1 BASEMENT ELECTRICAL E3.00 1/8" = 1'-0"

LAWNCREST **RECREATION CENTER**

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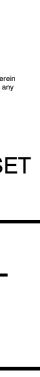
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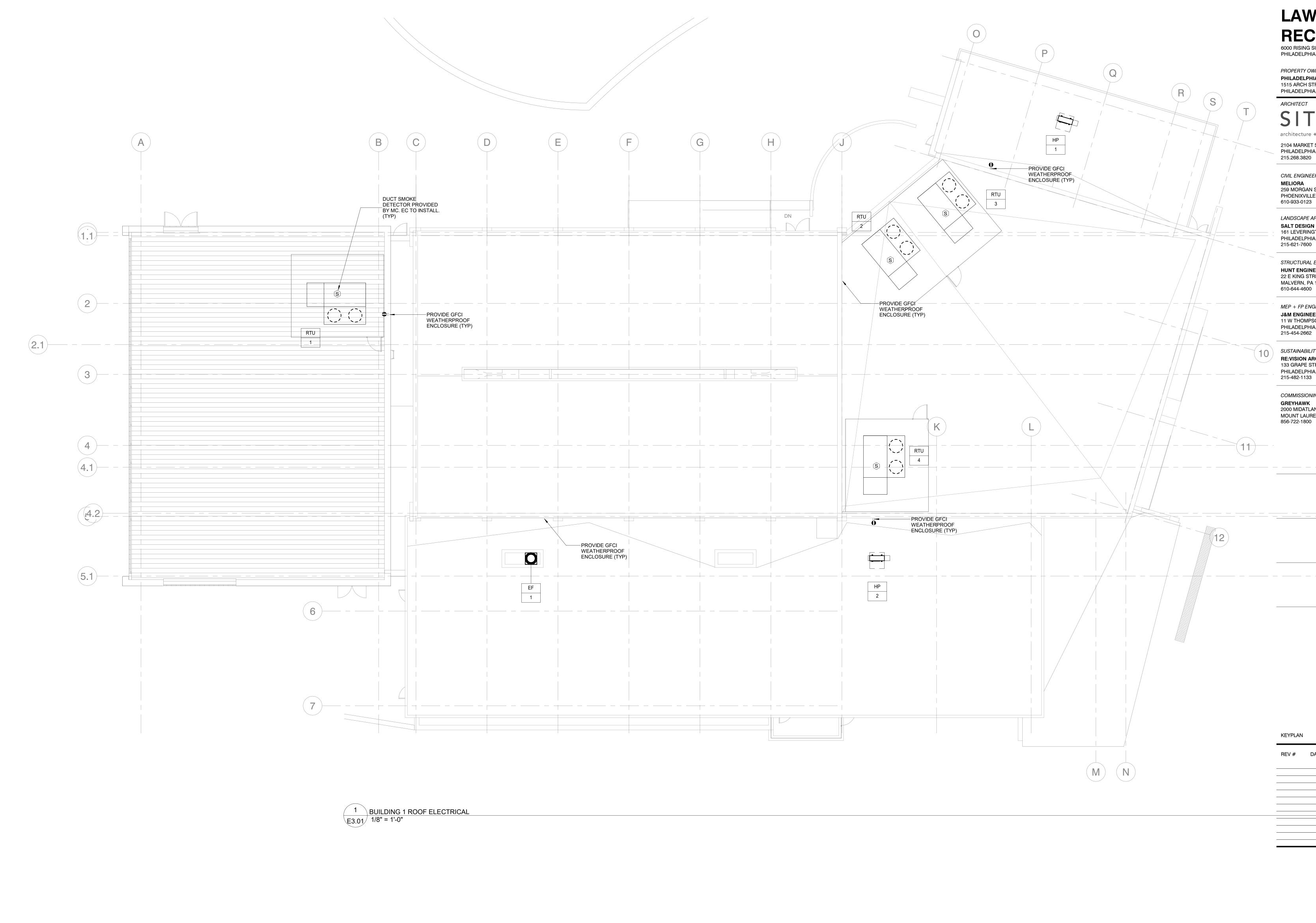
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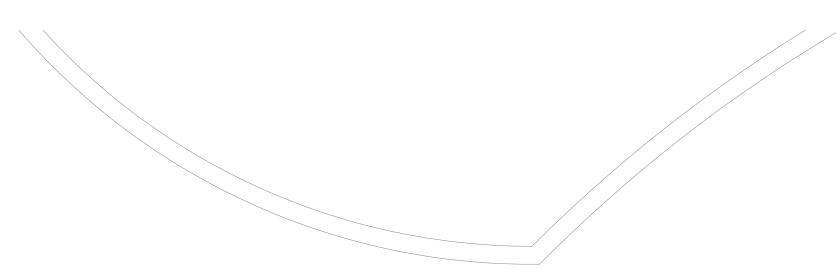
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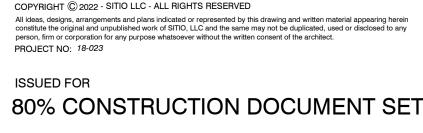
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REV # DATE DESCRIPTION NOT FOR CONSTRUCTION









1/12/24 SCALE: 1/8" = 1'-0"

BUILDING 1 ELECTRICAL ROOF PLAN

LAWNCREST **RECREATION CENTER**

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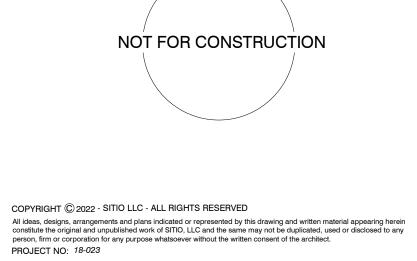
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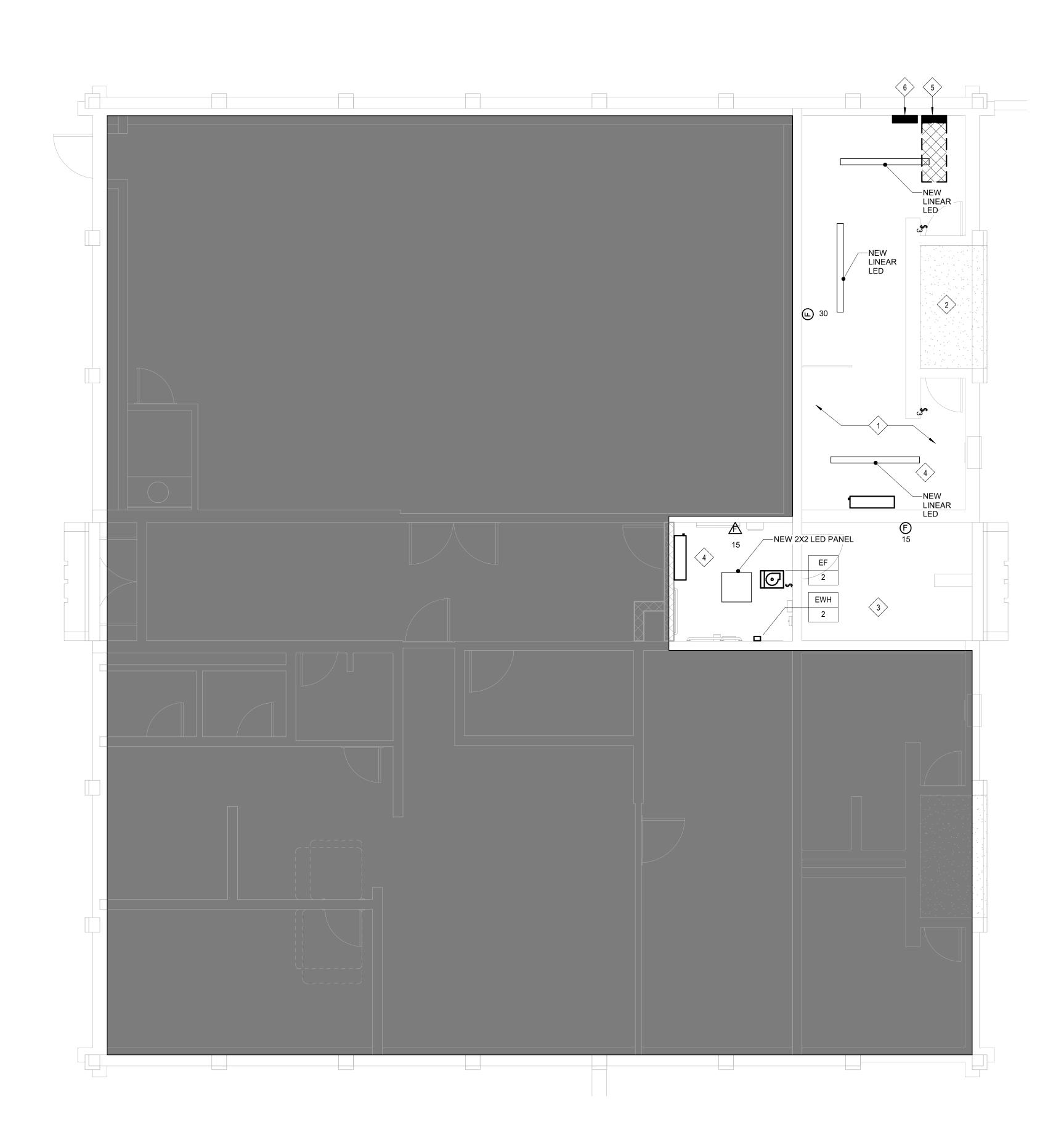
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1 BUILDING 2 ELECTRICAL E3.02 1/4" = 1'-0"





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610-933-0123 _____

215-482-1133

KEYPLAN

ISSUED FOR 80% CONSTRUCTION DOCUMENT SET

1/12/24 SCALE: As indicated

BUILDING 2 ELECTRICAL FLOOR PLANS

<u>KEYNOTES:</u>

1 NEW LED LIGHTING, FIXTURES FORTHCOMING, STAND ALONE LOW VOLTAGE DIMMING CONTROL. MINI INVERTER FOR EMERGENCY FIXTURES.

C EXTERIOR RATED LED EGRESS AND SECURITY LIGHTING. BATTERY BACKUP FOR EGRESS FIXTURES.

³ EF: 500 CFM, GREENHECK CSP IN-LINE

4 CABINET UNIT HEATER, 5 KW

5 225A, 208/120V SERVICE WITH 225A MCB DISTRIBUTION PANEL

6 FIRE ALARM CONTROL PANEL, ADDRESSABLE

LAWNCREST **RECREATION CENTER**

6000 RISING SUN AVE PHILADELPHIA, PA 19111

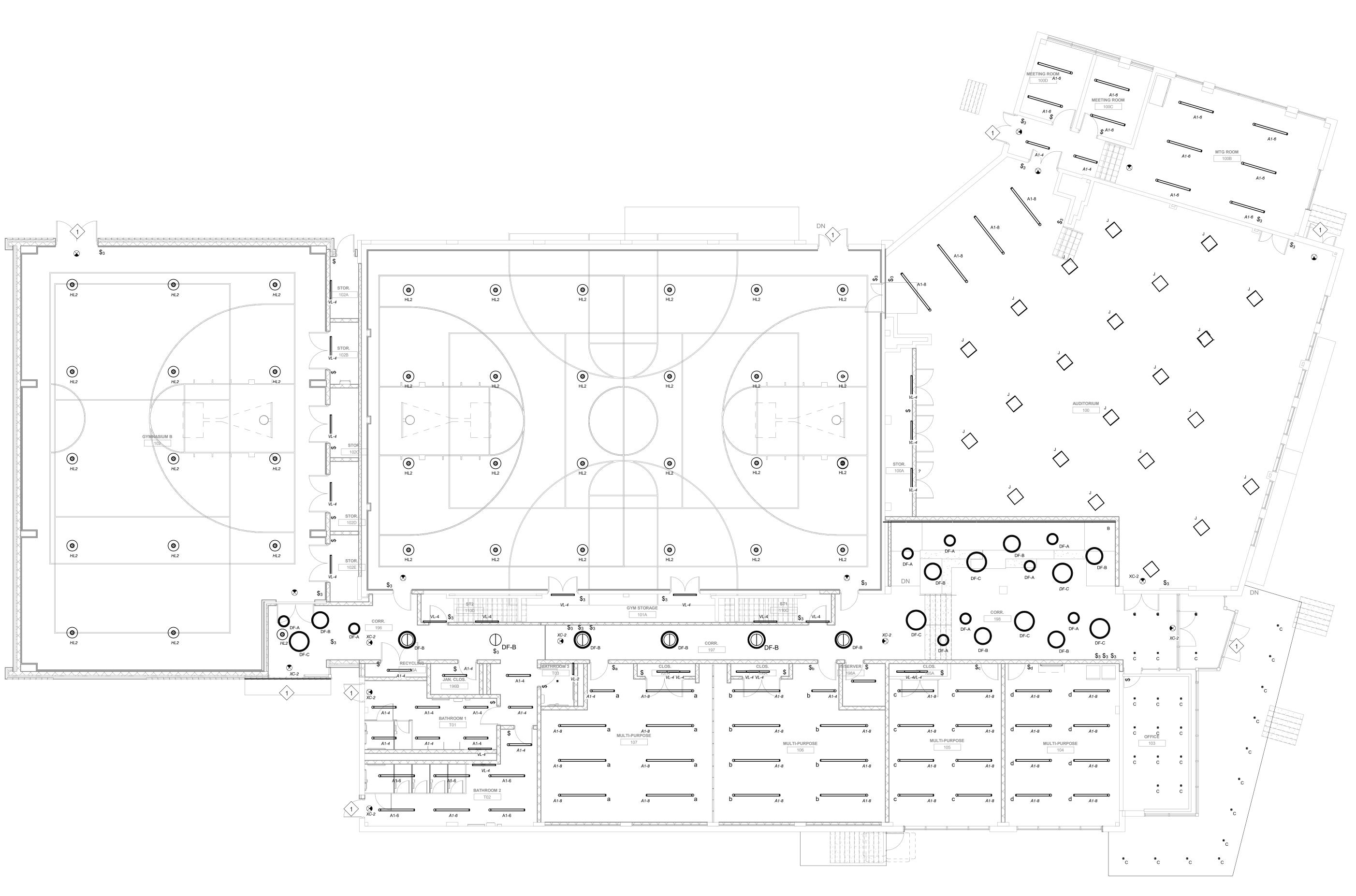
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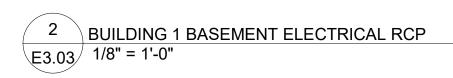


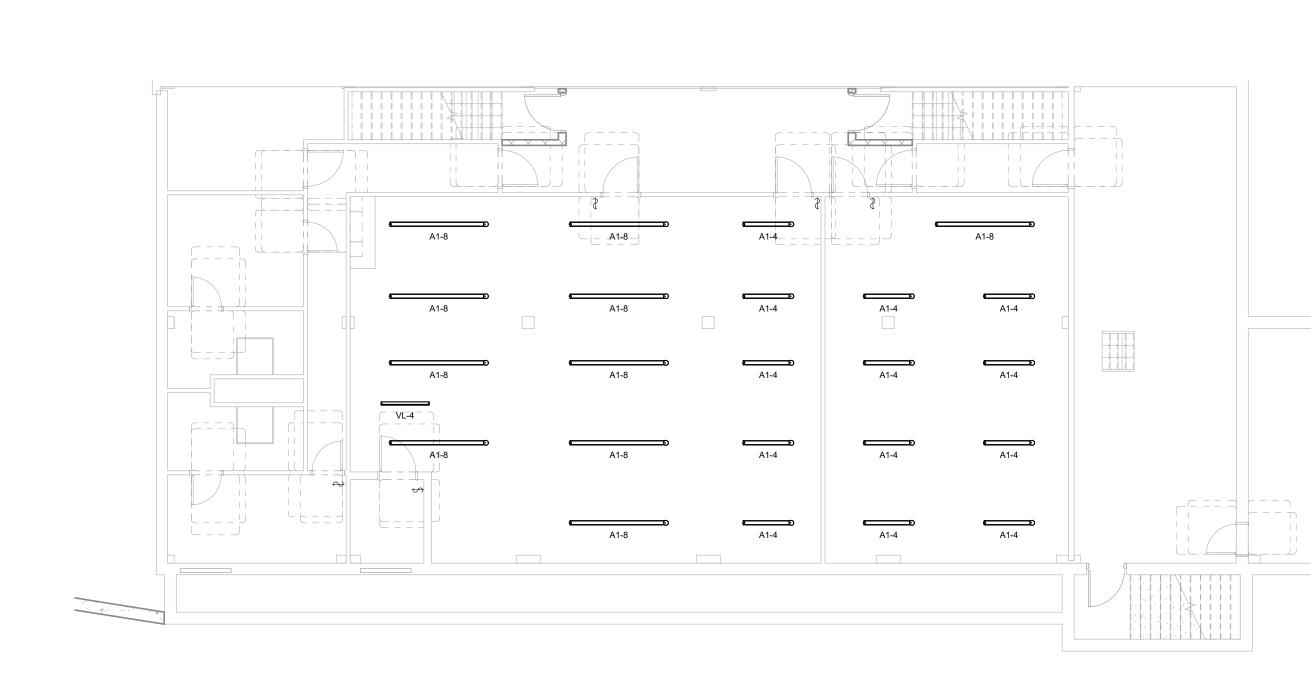


1 BUILDING 1 LEVEL G ELECTRICAL RCP E3.03/ 1/8" = 1'-0"

KEYED NOTES:

 $\langle 1 \rangle$ Exterior rated LED Egress and security Lighting. Battery Backup for Egress Fixtures.





ISSUED FOR

1/12/24 SCALE: 1/8" = 1'-0"

BUILDING 1 ELECTRICAL RCP

LAWNCREST **RECREATION CENTER**

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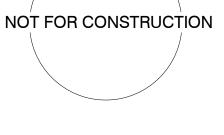
SUSTAINABILITY CONSULTANT **RE:VISION ARCHITECTURE** 133 GRAPE STREET PHILADELPHIA, PA 19127 215-482-1133

COMMISSIONING GREYHAWK 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

KEYPLAN

REV # DATE DESCRIPTION

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ISSUED FOR

BUILDING 1 AND 2 ELECTRICAL SITE PLAN

LAWNCREST **RECREATION CENTER**

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PROJECT USER 1501 CHERRY STREET PHILADELPHIA, PA 19102

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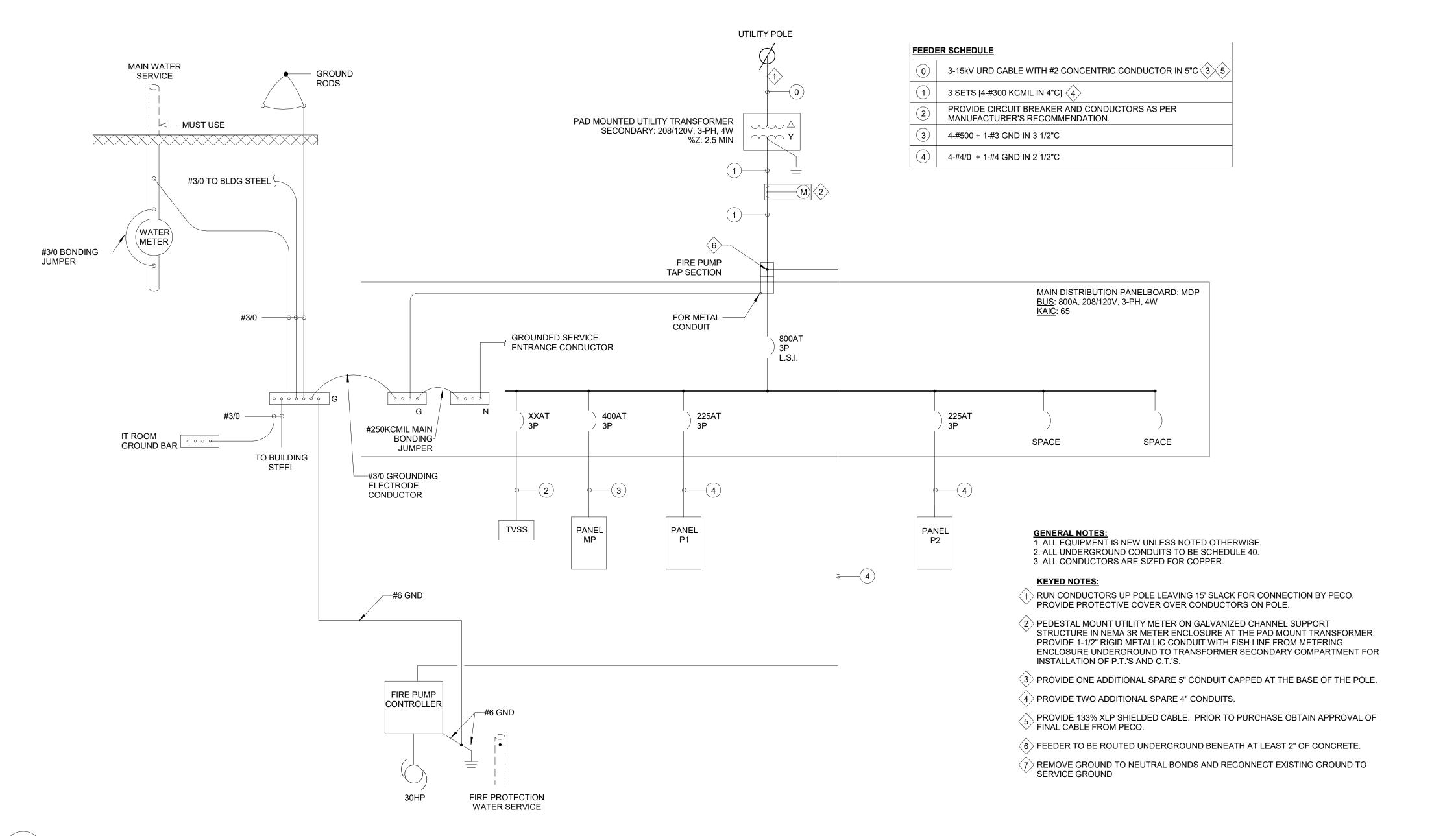
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| | | | L PANEL SCHED | OULE | | | | | | | | | MF |
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| 3 | 110 | 3 | RTU-1 | | 10.94 | | | 10.94 | | RTU-2 | 3 | 110 | 4 |
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| 7 | | | | 10.94 | | | 10.94 | | | | | | 8 |
| 9 | 110 | 3 | RTU-3 | | 10.94 | | | 10.94 | | RTU-4 | 3 | 110 | 10 |
| 11 | | | | | | 10.94 | | | 10.94 | | | | 12 |
| 13 | 35 | 2 | HP-1 | 2.60 | | | 3.70 | | | HP-2 | 2 | 50 | 14 |
| 15 | | | | | 2.60 | | | 3.70 | | | | | 16 |
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| | | | SECTION KVA A | | | 50.0 | 6 | | | TOTAL CONNE | ECTED KVA | | 3.88 |
| | | | | SECTION | | | | | | TOTAL CONNEC | TED AMPS | 39 | 9.86 |
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| IOTES | <u>.</u> | | | | | | | | | | | | |
| . ALL | LOAD | S AR | E NEW UNLESS OTHER | RWISE NOTED | | | | | | | | | |
| . PRC | VIDE | CIRC | UIT BREAKER LOCK O | N CIRCUITS S | ERVIN | G FIRE | ALARM E | QUIPM | ENT. | | | | |

| | | | | | | | | | | | | TINIO | 00 | P ' |
|--------------|------------|-------|-------------------------|---------|------|------|----|------|------|------|--------------------------|--------------------|----|---------------|
| PHAS 208/ | 5E 120V | 4 WIF | κΕ. | | | | | | | | MAIN BUS RA | ATING: AAINS: | | 25A |
| | KAIC | | | | | | | | | | | BUS: | | ML(X |
| | | | | | | | | | | | | . BUS: | | <u>^</u> X |
| OCAT | | MEC | H ROOM | | | | | | | | ISOL .GRD | | | |
| | TR | P | DESCRIPTION | А | В | С | | Α | В | С | DESCRIPTION | <u>. D00.</u> Р | TR | CK |
| 1 | 20 | 1 | ERV-1 | 0.18 | | Ű | | 1.10 | | Ű | LIGHTING INVERTER | 1 | 20 | 2 |
| 3 | | | | 0.10 | 0.16 | | | 1.10 | 1.25 | | LTG - GYM A | 1 | 20 | 4 |
| 5 | 20 | 2 | EF-1 | | 0.10 | 0.16 | | | 1.20 | 1.25 | LTG - GYM B | 1 | 20 | 6 |
| 7 | | | | 2.00 | | 0110 | | 1.50 | | | LTG - AUDITORIUM | 1 | 20 | 8 |
| 9 | 30 | 2 | EWH-1 | | 2.00 | | | | 1.50 | | LTG - STAGE | 1 | 20 | 10 |
| 11 | 05 | | | | | 2.60 | | | | 1.50 | LTG - UPPER LEVEL | 1 | 20 | 12 |
| 13 | 35 | 2 | HP-1 | 2.60 | | | | 1.50 | | | LTG - UPPER LEVEL | 1 | 20 | 14 |
| 15 | EE | 2 | HP-2 | | 4.78 | | | | 1.50 | | LTG - BASEMENT | 1 | 20 | 16 |
| 17 | 55 | 2 | HP-2 | | | 4.78 | | | | 1.08 | DRINKING FOUNTAIN GFCI | 1 | 20 | 18 |
| 19 | 25 | 2 | CUH-2 (ENTRY VESTIBULE) | 2.00 | | | | 1.00 | | | HAND DRYER | 1 | 20 | 20 |
| 21 | 25 | 2 | COH-2 (ENTRY VESTIBULE) | | 2.00 | | | | 1.00 | | HAND DRYER | 1 | 20 | 22 |
| 23 | 25 | 2 | CUH-2 (REAR VESTIBULE) | | | 2.00 | | | | 0.50 | FIRE ALARM CONTROL PANEL | 1 | 20 | 24 |
| 25 | 25 | 2 | CON-2 (REAR VESTIBULE) | 2.00 | | | | 0.50 | | | NAC PANEL | 1 | 20 | 26 |
| 27 | 15 | 2 | CUH-1 (BATHROOM) | | 0.75 | | | | 0.50 | | SECURITY PANEL | 1 | 20 | 28 |
| 29 | 15 | 2 | | | | 0.75 | | | | 0.50 | SIGNAGE | 1 | 20 | 30 |
| 31 | 15 | 2 | CUH-1 (BATHROOM) | 0.75 | | | | 0.20 | | | MECH ROOM 110 | 1 | 20 | 32 |
| 33 | 10 | | | | 0.75 | | | | 0.50 | | IT RACK | 1 | 20 | 34 |
| 35 | 15 | 2 | CUH-1 (MTG RM DOOR) | | | 0.75 | | | | 2.50 | EWH-2 (MTG ROOM) | 1 | 20 | 36 |
| 37 | 10 | | | 0.75 | | | | 1.50 | | | LTG - EXTERIOR | 1 | 20 | 38 |
| 39 | 30 | 2 | EWH-2 (MULTI-PURPOSE) | | 2.50 | | | | 1.50 | | LTG - EXTERIOR | 1 | 20 | 40 |
| 41 | 00 | - | , | | | 2.50 | | | | 0.20 | EXTERIOR GFCI | 1 | 20 | 42 |
| | | | | SECTION | | 17.5 | | - | | | TOTAL CONNECTED KVA | | | 9.34 |
| | | | | SECTION | | | | - | | | TOTAL CONNECTED AMPS | | 16 | 4.91 |
| | | | E NEW UNLESS OTHERWISE | SECTION | | 21.0 |)7 | | | | | | | |

| PHAS | SE | 4 WIF | RE | | | | | | | | MAIN BUS R | ATING | |
|------|------|----------|----------------------------|---------|---------|------|---|------|------|------|-----------------------------|---------|-----|
| 208/ | 120V | | | | | | | | | | Π | MAINS | 22 |
| 65 | KAIC | | | | | | | | | | NEUT | L. BUS | |
| URFA | CE | | | | | | | | | | GRE |). BUS: | . — |
| OCAT | ION: | MECH | H ROOM | | | | | | | | ISOL .GRE |). BUS | |
| СКТ | TR | Р | DESCRIPTION | Α | В | С | | А | В | С | DESCRIPTION | Р | T - |
| 1 | 20 | 1 | RCPTL - ENTRY CORRIDOR | 0.36 | | | | 0.90 | | | RCPTL - MTG ROOM 100B | 1 | |
| 3 | 20 | 1 | RCPTL - OFFICE 103 | | 0.36 | | | | 1.08 | | RCPTL - MTG ROOM 100C, 100D | 1 | |
| 5 | 20 | 1 | RCPTL - MULTIPURPOSE 104 | | | 1.44 | | | | 1.50 | RCPTL - STORAGE B100 | 1 | |
| 7 | 20 | 0 | | 0.50 | | | | 1.80 | | | RCPTL - BASEMENT | 1 | |
| 9 | 20 | 2 | REFRIGERATOR | | 0.50 | | | | 1.80 | | RCPTL - BASEMENT | 1 | |
| 11 | 20 | <u>_</u> | | | | 0.50 | | | | 0.72 | RCPTL - MECH B104, B104A | 1 | |
| 13 | 20 | 2 | REFRIGERATOR | 0.50 | | | | 0.92 | | | LTG - SITE | 1 | |
| 15 | 20 | 1 | RCPTL - MULTIPURPOSE 105 | | 0.54 | | | | 0.40 | | LTG - SITE | 1 | |
| 17 | 20 | 1 | RCPTL - MULTIPURPOSE 106 | | | 0.72 | | | | | SPARE | 1 | |
| 19 | 20 | 1 | RCPTL - BATHROOM 1 AND 2 | 0.36 | | | | | | | SPARE | 1 | |
| 21 | 20 | 1 | RCPTL - CORR 196, JAN 196B | | 0.36 | | | | | | SPARE | 1 | |
| 23 | 20 | 1 | RCPTL - GYM A | | | 0.72 | | | | | SPARE | 1 | |
| 25 | 20 | 1 | RCPTL - GYM B | 1.44 | | | | | | | SPARE | 1 | |
| 27 | 20 | 1 | GYM B BACKSTOP WINCH | | 1.92 | | | | | | SPARE | 1 | |
| 29 | 20 | 1 | RCPTL - AUDITORIUM | | | 1.44 | | | | | SPARE | 1 | |
| 31 | 20 | 1 | RCPTL - AUDITORIUM STAGE | 0.36 | | | | | | | SPARE | 1 | |
| 33 | 20 | 0 | | | 0.50 | | | | | | SPARE | 1 | |
| 35 | 20 | 2 | AUDITORIUM LIFT | | | 0.50 | | | | | SPARE | 1 | |
| 37 | 20 | 1 | SPARE | | | | | | | | SPARE | 1 | |
| 39 | 20 | 1 | SPARE | | | | | | | | SPARE | 1 | |
| 41 | 20 | 1 | SPARE | | | | | | | | SPARE | 1 | |
| | | | S | SECTION | I KVA A | 7.1 | 4 | _ | | | TOTAL CONNECTED KVA | | |
| | | | S | SECTION | I KVA B | 7.4 | 6 | - | | | TOTAL CONNECTED AMPS | | |
| | | | S | SECTION | I KVA C | 7.5 | 4 | - | | | | | |



1 ELECTRICAL SINGLE LINE BUILDING 1 E7.01 N.T.S.

| | | _ |
|----|-----|---|
| | P2 | |
| 22 | 5A | |
| А | MLO | |
|) | X | |
|) | × | |
| | | |
| 2 | CKT | |
|) | 2 | |
|) | 4 | |
| | 6 | |
|) | 8 | |
|) | 10 | |
|) | 12 | |
|) | 14 | |
|) | 16 | |
|) | 18 | |
|) | 20 | |
|) | 22 | |
|) | 24 | |
|) | 26 | |
|) | 28 | |
| | 30 | |
|) | 32 | |
|) | 34 | |
|) | 36 | |
|) | 38 | |
|) | 40 | |
|) | 42 | |
| 22 | | |
| 61 | .53 | |
| | | |
| | | |
| | | |

| | | | LIGHTING FIXTURE SCHEDULE | | | | | | | |
|------|------------------|-------------------|--|------|-----|--------|------------|---------|--------------|-----------------|
| TYPE | DESCRIPTION | MANUFACTURER | MODEL/CATALOG NUMBER | | | | VA/FIXTURE | VOLTAGE | MOUNTING | REMARKS |
| | | | | TYPE | CRI | LUMENS | | | | |
| A1-4 | LINEAR SURFACE | SELUX | L1DI-1C25-1C25-835-BW-WB-MOD-04-SP-1-DIM-FS-xS2-EC | LED | 80 | 2896 | 25.52 | 120 | THREADED ROD | 0-10V DIMMING |
| A1-6 | LINEAR SURFACE | SELUX | L1DI-1C25-1C25-835-BW-WB-MOD-06-SP-1-DIM-FS-xS2-EC | LED | 80 | 4344 | 38.28 | 120 | THREADED ROD | 0-10V DIMMING |
| A1-8 | LINEAR SURFACE | SELUX | L1DI-1C25-1C25-835-BW-WB-MOD-08-SP-1-DIM-FS-xS2-EC | LED | 80 | 5792 | 51.04 | 120 | THREADED ROD | 0-10V DIMMING |
| A2-6 | LINEAR SURFACE | SELUX | L10-1C25-835-BW-MOD-04-SP-1-DIM-FS-xS2-EC | LED | 80 | 5792 | 51.04 | 120 | THREADED ROD | 0-10V DIMMING |
| A2-8 | LINEAR SURFACE | SELUX | L10-1C25-835-BW-MOD-06-SP-1-DIM-FS-xS2-EC | LED | 80 | 5792 | 51.04 | 120 | THREADED ROD | 0-10V DIMMING |
| В | DOWNLIGHT | LUMINAIRE LED | V3SEALPERD-D-WET-EPDO-SW-80-500-35-38FT-120-D1-1C-#EC##-DTR-W-TF-NEF | LED | 80 | 1500 | 14.00 | 120 | THREADED ROD | 0-10V DIMMING |
| С | DOWNLIGHT | LUMINAIRE LED | VRDL4-GB-MIN1-ZT-2000LM-WD-35K-80CRI-120-CPL-AMF- <blank>-<blank></blank></blank> | LED | 80 | 1500 | 14.00 | 120 | THREADED ROD | 0-10V DIMMING |
| D1-2 | PENDANT RING | LUMENWERX | P1022-25-35K-CLV-1-WM-PMW-MOD HIR/ST-OAH | LED | 80 | 700 | 6.20 | 120 | THREADED ROD | 0-10V DIMMING |
| D1-3 | PENDANT RING | LUMENWERX | P1022-37-35K-CLV-1-WM-PMW-MOD HIR/ST-OAH | LED | 80 | 700 | 6.20 | 120 | THREADED ROD | 0-10V DIMMING |
| D1-4 | PENDANT RING | LUMENWERX | P1022-48-35K-CLV-1-WM-PMW-MOD HIR/ST-OAH | LED | 80 | 700 | 6.20 | 120 | THREADED ROD | 0-10V DIMMING |
| D2-2 | PENDANT RING | LUMENWERX | C1022-25-35K-CLV-1-WM-PMW-MOD SURF MT/HIR | LED | 80 | 700 | 6.20 | 120 | SURFACE | 0-10V DIMMING |
| D2-3 | PENDANT RING | LUMENWERX | C1022-37-35K-CLV-1-WM-PMW-MOD SURF MT/HIR | LED | 80 | 700 | 6.20 | 120 | SURFACE | 0-10V DIMMING |
| D2-4 | PENDANT RING | LUMENWERX | C1022-48-35K-CLV-1-WM-PMW-MOD SURF MT/HIR | LED | 80 | 700 | 6.20 | 120 | SURFACE | 0-10V DIMMING |
| Е | WALL | LITHONIA LIGHTING | WDGE1 LED | LED | 80 | 700 | 6.20 | 120 | WALL | 0-10V DIMMING |
| F | MULLION | LUMINAIRE LED | BLD WALLPACK | LED | 80 | 700 | 6.20 | 120 | MULLION | 0-10V DIMMING |
| G | CANOPY | JUNO | MD1LG2 | LED | 80 | 700 | 6.20 | 120 | CANOPY | 0-10V DIMMING |
| HL2 | HIGH BAY | SPECTRUM | ALOCTV22GV-150L-35K-DRIVER-OPTIONS-MOUNTING-AL22/MWI-DR22A-WAG22-MW | LED | 80 | 15000 | 102.00 | 120 | THREADED ROD | 0-10V DIMMING |
| J | 2X2 TROFFER | LITHONIA LIGHTING | 2VTL2 72 ADP DRIVER LP835 OPTIONS + 2X2SMKSHP PAF | LED | 80 | 7200 | 56.80 | 120 | RECESSED | 0-10V DIMMING |
| SL-1 | LINEAR PENDANT | NULITE | PXR3-06-L35-VOLTAGE-DRIVER-1-OPTIONS-RD-FINISH-2FT (MOUNT ON WALL & AIMED OUTWARD) | LED | 80 | 1200 | 10.00 | 120 | SURFACE | 0-10V DIMMING |
| VL-4 | LINEAR PENDANT | NULITE | PXR3-06-L35-VOLTAGE-DRIVER-1-OPTIONS-RD-FINISH-4FT (MOUNT ON WALL & AIMED OUTWARD) | LED | 80 | 2400 | 20.00 | 120 | SURFACE | 0-10V DIMMING |
| Х | EXIT | LITHONIA LIGHTING | LRP, LEAR EDGE LIT, GEEN ON MIRROR, AC EMERGENCY OPERATION | LED | - | - | - | 120 | SURFACE | |
| Α | PEDESTRIAN LIGHT | SELUX | DSC4L-DG-L1-MP350-40 | LED | | | | | POLE | REFER TO L DWGS |
| A1 | PEDESTRIAN LIGHT | SELUX | DSC4L-DG-L2-MP350-40 | LED | | | | | POLE | REFER TO L DWGS |
| B/C | COURT LIGHT | EPHESUS | (B) EPH-VN-04-E-750-U-T4FT-36650, (C) EPH-VN-04-E-750-U-T4FT-59156 | LED | | | | | POLE | REFER TO L DWGS |

2. ALL EXTERIOR LIGHTING FIXTURES TO BE DARK SKY COMPLIANT 3. VANDAL LIGHTING FIXTURES PER PPR STANDARDS

| 1100VA, 1 | 20V, 1-PH/ | ASE | | | |
|---------------------------|------------|------------|---|----------------------------|--------------|
| CIRCUIT | TRIP | POLE | DESCRIPTION | | LOAD |
| 1 | 10 | 1 | EM LTG - CORRIDORS, EXIT SIGNS | | 500 |
| 2 | 10 | 1 | EM LTG - EXTERIOR | | 70 |
| 3 | 10 | 1 | EM LTG - INTERIOR | | 500 |
| | | | | TOTAL VA CONNECTED AMPS | 1070 8.92 |
| <u>iotes:</u> . provid | E SEPARA | ATION OF M | NORMAL AND EMERGENCY LIGHTING CIRCUITS. | | |

ISSUED FOR 80% CONSTRUCTION DOCUMENT SET

SCALE: 1/8" = 1'-0" **BUILDING 1 ELECTRICAL**

1/12/24

SCHEDULES

ARCHITECT

SITIO architecture + urbanism 2104 MARKET ST, 3RD FLOOR PHILADELPHIA, PA 19103 215.268.3820

610-933-0123 _____

LAWNCREST **RECREATION CENTER**

6000 RISING SUN AVE PHILADELPHIA, PA 19111

PROPERTY OWNER PHILADELPHIA PARK AND RECREATION COMMUNITY VENTURES 1515 ARCH STREET, 10TH FLOOR PHILADELPHIA, PA 19102

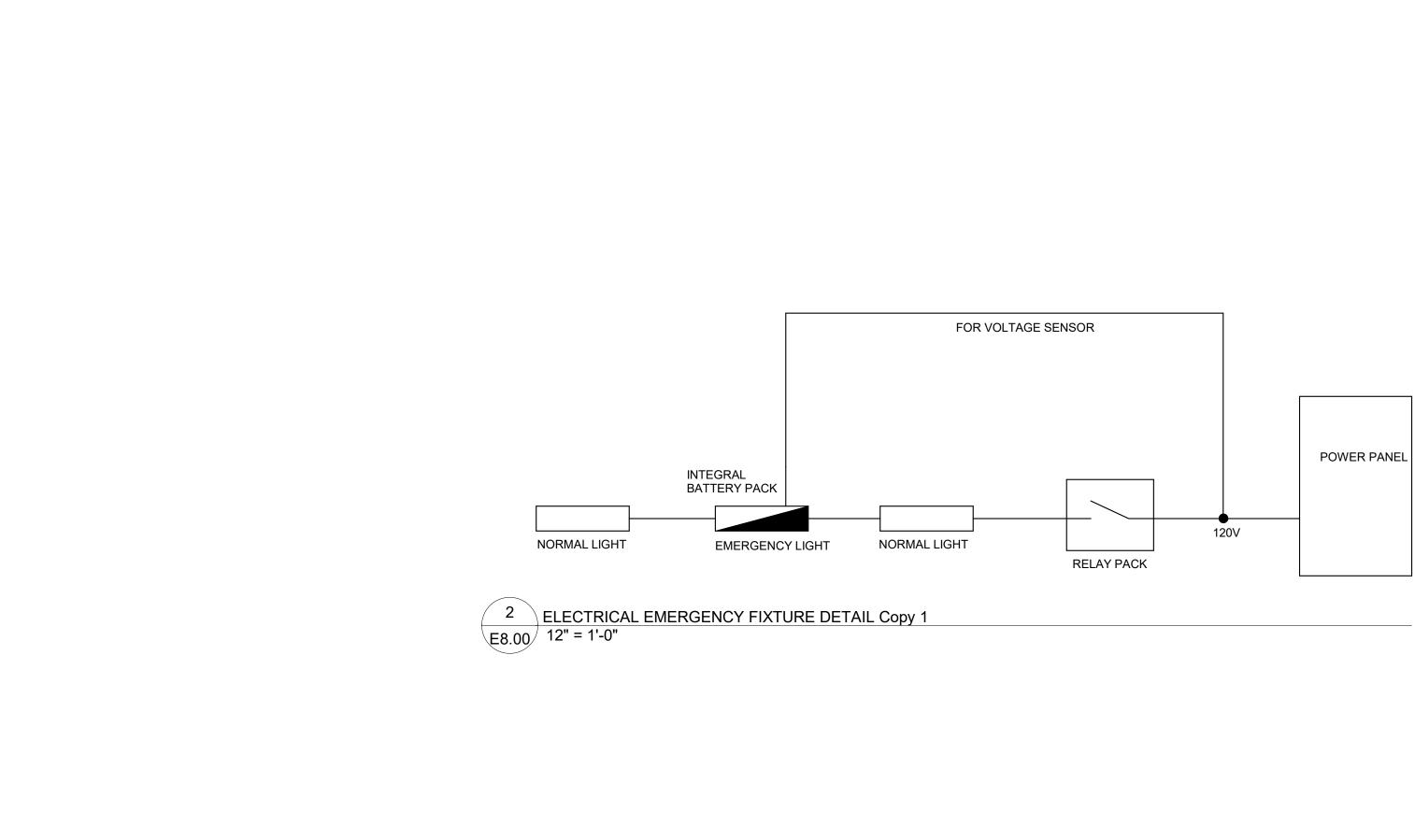
PROJECT USER 1501 CHERRY STREET PHILADELPHIA, PA 19102

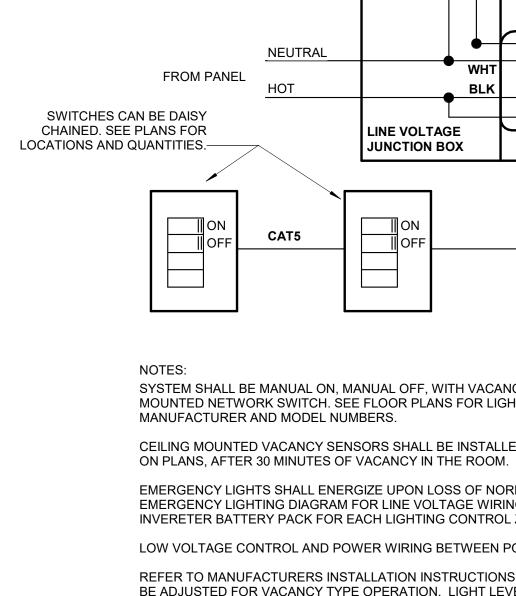
- CIVIL ENGINEER **MELIORA** 259 MORGAN STREET PHOENIXVILLE, PA 19460
- LANDSCAPE ARCHITECT SALT DESIGN STUDIO 161 LEVERINGTON AVE, SUITE 1005 PHILADELPHIA, PA 19127 215-621-7600
- STRUCTURAL ENGINEER HUNT ENGINEERING 22 E KING STREET MALVERN, PA 19125 610-644-4600
- MEP + FP ENGINEERING **J&M ENGINEERING** 11 W THOMPSON STREET PHILADELPHIA, PA 19125 215-454-2662
- SUSTAINABILITY CONSULTANT **RE:VISION ARCHITECTURE** 133 GRAPE STREET PHILADELPHIA, PA 19127 215-482-1133
- COMMISSIONING GREYHAWK 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

KEYPLAN

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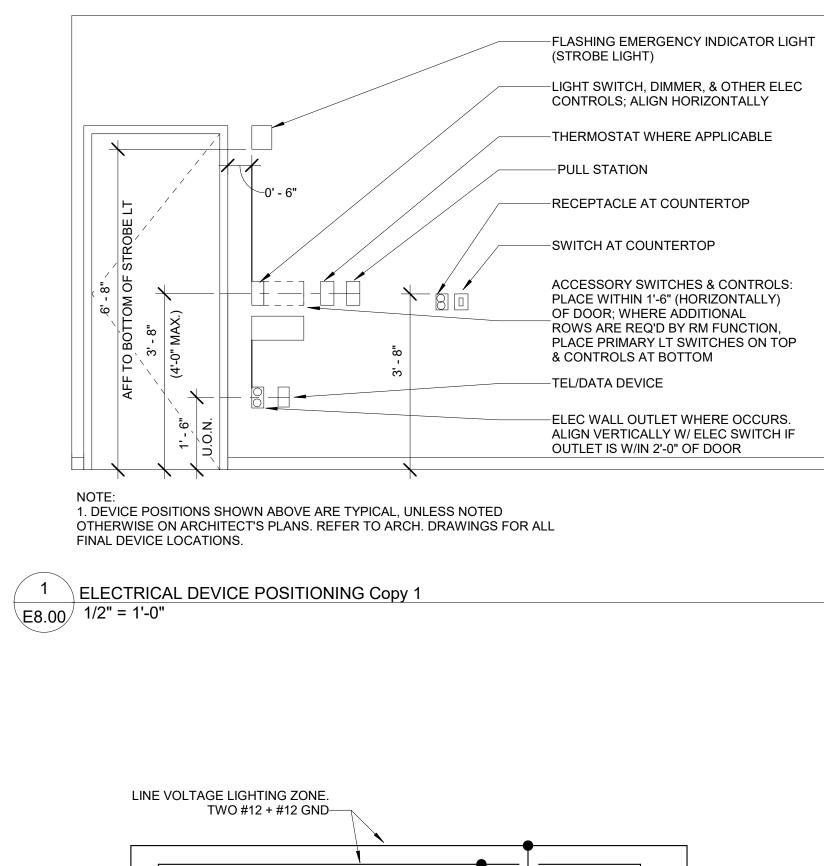
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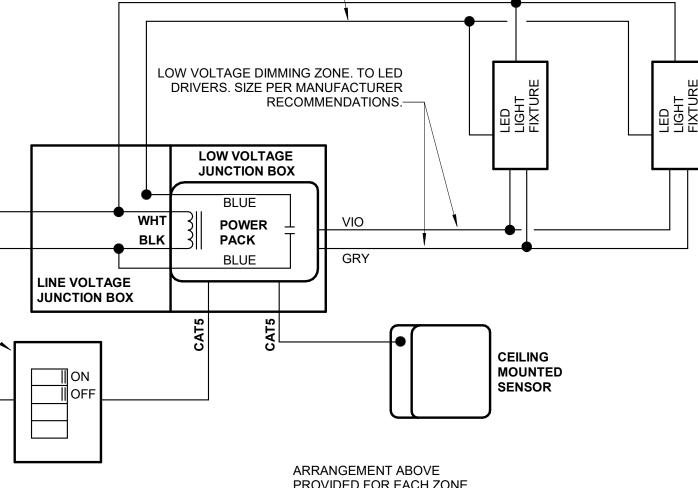




REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR WIRING AND ADJUSTMENT OF SENSORS. CEILING SENSORS SHALL BE ADJUSTED FOR VACANCY TYPE OPERATION. LIGHT LEVEL SETTINGS SHALL BE ADJUSTED TO THE OWNER AND ARCHITECT'S SATISFACTION. USE THE MANUFACTURER'S CONFIGURATION TOOL FOR SYSTEM SET UP AND LIGHT LEVEL ADJUSTMENTS. VACANCY SENSORS AND WALL SWITCHES SHALL BE ADJUSTED TO SATISFACTION OF OWNER AND ARCHITECT. INSTRUCT THE

3 ELECTRICAL LOW VOLTAGE LIGHTING DETAIL Copy 1 E8.00 12" = 1'-0"





PROVIDED FOR EACH ZONE.

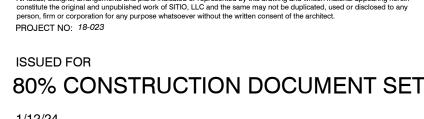
SYSTEM SHALL BE MANUAL ON, MANUAL OFF, WITH VACANCY OFF CONTROL. EACH ZONE ON/OFF WILL BE THRU THE WALL MOUNTED NETWORK SWITCH. SEE FLOOR PLANS FOR LIGHTING ZONE ARRANGEMENT. SEE SPECIFICATIONS FOR SYSTEM

CEILING MOUNTED VACANCY SENSORS SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF ALL LIGHTING ZONES AS INDICATED

EMERGENCY LIGHTS SHALL ENERGIZE UPON LOSS OF NORMAL POWER THRU A DEDICATED MINI INVERTER BATTERY PACK. SEE EMERGENCY LIGHTING DIAGRAM FOR LINE VOLTAGE WIRING FOR EACH EMERGENCY FIXTURE. PROVIDE AN EMERGENCY

INVERETER BATTERY PACK FOR EACH LIGHTING CONTROL ZONE. LOW VOLTAGE CONTROL AND POWER WIRING BETWEEN POWER PACK AND SENSOR SHALL BE INSTALLED IN CONDUIT.

OWNER ON HOW TO OPERATE THE SYSTEM PRIOR TO TURN OVER.



SCALE: As indicated **BUILDING 1 ELECTRICAL** DETAILS

ARCHITECT

215-482-1133

1/12/24

LAWNCREST **RECREATION CENTER**

6000 RISING SUN AVE PHILADELPHIA, PA 19111

PROPERTY OWNER PHILADELPHIA PARK AND RECREATION COMMUNITY VENTURES 1515 ARCH STREET, 10TH FLOOR PHILADELPHIA, PA 19102

PROJECT USER 1501 CHERRY STREET PHILADELPHIA, PA 19102

SITIO architecture + urbanism 2104 MARKET ST, 3RD FLOOR PHILADELPHIA, PA 19103 215.268.3820

- CIVIL ENGINEER **MELIORA** 259 MORGAN STREET PHOENIXVILLE, PA 19460 610-933-0123
- LANDSCAPE ARCHITECT SALT DESIGN STUDIO 161 LEVERINGTON AVE, SUITE 1005 PHILADELPHIA, PA 19127 215-621-7600
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- MEP + FP ENGINEERING J&M ENGINEERING 11 W THOMPSON STREET PHILADELPHIA, PA 19125 215-454-2662
- SUSTAINABILITY CONSULTANT **RE:VISION ARCHITECTURE** 133 GRAPE STREET PHILADELPHIA, PA 19127
- COMMISSIONING GREYHAWK 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

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E8.00

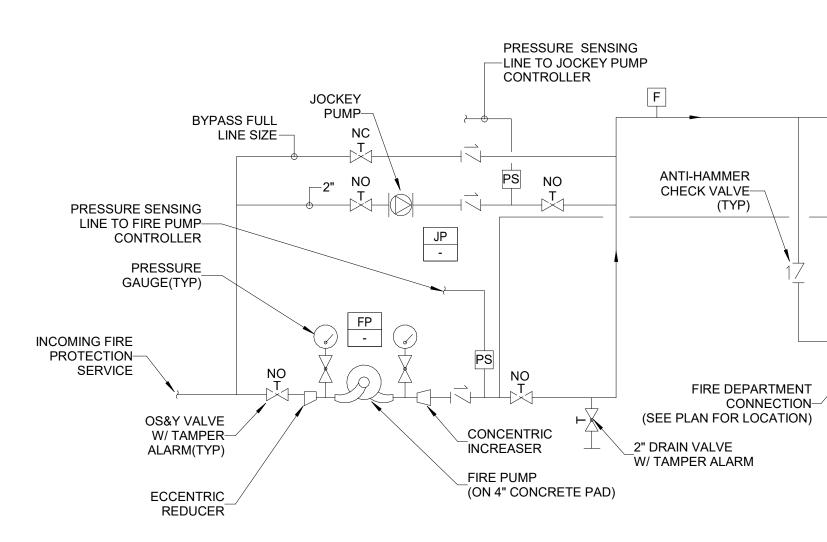
FIRE PROTECTION LEGEND

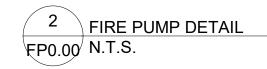
| | ABBREVIATIONS | | | SYMBOLS | |
|---------------------------|---|----------------|------------------------|--------------------------------|-------------------------------------|
| AFF AHJ | ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION | | EXISTING TO REMAIN | TS IOI | BALL VALVE W/ TAM |
| AP CLG CONT DN | ACCESS PANEL CEILING CONTINUED DOWN | | EXISTING TO BE REMOVED | TS N | BUTTERFLY VALVE V |
| DP DSP DWG | DRY PIPE FIRE PROTECTION PIPING DRY STANDPIPE DRAWING | | NEW WORK | $\overset{\bullet}{\boxtimes}$ | CHECK VALVE |
| (E) EX FD | EXISTING TO REMAIN EXISTING FLOOR DRAIN | 0 | PIPE UP | | DOUBLE CHECK VAL |
| FDC FDHC FP GC | FIRE DEPARTMENT CONNECTION FIRE DEPARTMENT HOSE CONNECTION FIRE PUMP/FIRE PROTECTION PIPING GENERAL CONTRACTOR | | PIPE DOWN | \bigwedge | OS&Y GATE VALVE |
| HP JP MAX | HORSE POWER JOCKEY PUMP MAXIMUM | | PIPE DROP | \bigcirc | VERTICAL VALVE |
| MC MIN (N) | MECHANICAL CONTRACTOR MINIMUM NEW WORK | -0 | PIPE TAKE-OFF UP | $\bigcirc \dashv$ | STANDPIPE HOSE C |
| Ň/Á NC NIC NO | NOT APPLICABLE NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN | | PIPE CAP | 040 | FIRE DEPARTMENT |
| NTS PA PC | NOT TO SCALE PRE-ACTION FIRE PROTECTION PIPING PLUMBING CONTRACTOR | - X | PIPE ANCHOR | | FIRE PUMP TEST CC |
| PRV PSI (R) (RL) | PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH EXISTING TO BE REMOVED EXISTING TO BE RELOCATED | = | PIPE GUIDE | $-\!\!\!-\!\!\!D$ | WATER GONG |
| ŘPM SW TDH | REVOLUTIONS PER MINUTE SAFEWASTE TOTAL DEVELOPED HEAD(DYNAMIC) | \otimes | UPRIGHT HEAD | $\stackrel{O}{\diamondsuit}$ | FLOW SWITCH |
| TYP VIF | TYPICAL VERIFY IN FIELD | \odot | EXPOSED PENDENT | | PRESSURE GAGE W/ |
| | |) N | CONCEALED PENDENT | Ϋ́. | |
| | | | SIDEWALL HEAD | XX - | EQUIPMENT TAG EQUIPMENT TYPE DES |

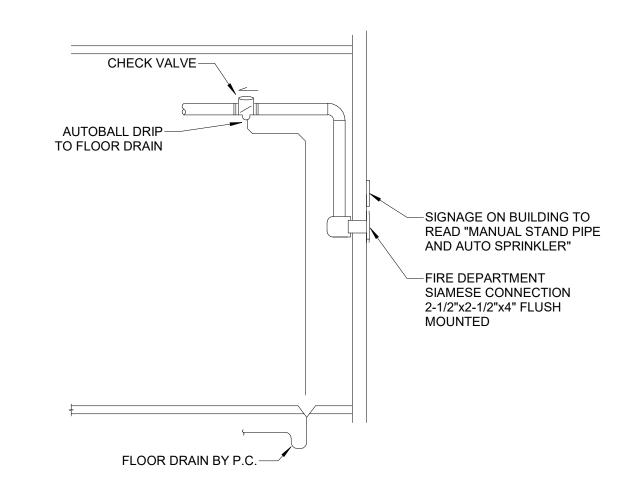
 $\langle xx \rangle$

CONNECT NEW TO EXISTING

CUT AND CAP







3 FDC DETAIL FP0.00 N.T.S.

BALL VALVE W/ TAMPER SWITCH

BUTTERFLY VALVE W/ TAMPER SWITCH

CHECK VALVE

DOUBLE CHECK VALVE ASSEMBLY

OS&Y GATE VALVE

STANDPIPE HOSE CONNECTION

FIRE DEPARTMENT SIAMESE CONNECTION

FIRE PUMP TEST CONNECTION

FLOW SWITCH

PRESSURE GAGE W/ BALL VALVE

EQUIPMENT TAG EQUIPMENT TYPE DESIGNATOR

HYDRAULIC CALCULATION NODE X STANDPIPE/SPRINKLER RISER LOCATION RISER TYPE RISER NUMBER

FIRE PROTECTION DESIGN INFORMATION

OWNER: CITY OF PHILADELPHIA

LOCATION: 6098 RISING SUN AVENUE

SYSTEM TYPE: WET PIPE SPRINKLER SYSTEM

SPRINKLER DESIGN CRITERIA: 0.2 GPM/SF OVER 1500 SF IN THE MECHANICAL AND ELECTRICAL ROOMS, ORDINARY

HAZARD GROUP 2.

0.2 GPM/SF OVER 1500 SF IN COMMERCIAL SHELL SPACES, ORDINARY HAZARD GROUP 2.

0.15 GPM/SF OVER 1950 SF FOR DRY PIPE SYSTEM OVER PARKING GARAGE/AREAS, ORDINARY HAZARD GROUP 1.

0.1 GPM/SF OVER 1,500 SF IN ALL OTHER AREAS, LIGHT HAZARD.

250 GPM HOSE ALLOWANCE FOR ORDINARY HAZARD AND 100 GPM HOSE ALLOWANCE FOR LIGHT HAZARD.

WATER SUPPLY INFORMATION:

JUNE 14, 2018

| STREET WATER MAIN: 8" |
|---|
| STATIC PRESSURE = 89 PSI |
| RESIDUAL PRESSURE = 62 PSI AT 2150 GPM FLOWING. |
| |

*FIRE PUMP CALCS UNDER REVIEW. FIRE PUMP IS ANTICIPATED.

FIRE PROTECTION (TO SYSTEM) -1:4-FIRE PUMP TEST CONNECTION _(SEE PLAN FOR LOCATION AND NUMBER OF OUTLETS REQUIRED)



ARCHITECT

 $C \mid T \mid C$ 21 C architecture + urbanism 2104 MARKET ST, 3RD FLOOR PHILADELPHIA, PA 19103 215.268.3820

215-482-1133

KEYPLAN

PROJECT NO: 18-023

80% CONSTRUCTION DOCUMENT SET 1/12/24

FIRE PROTECTION COVER SHEET

ISSUED FOR SCALE: As indicated

LAWNCREST **RECREATION CENTER**

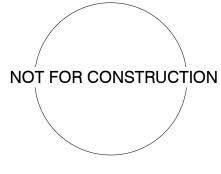
6000 RISING SUN AVE PHILADELPHIA, PA 19111

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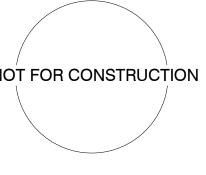
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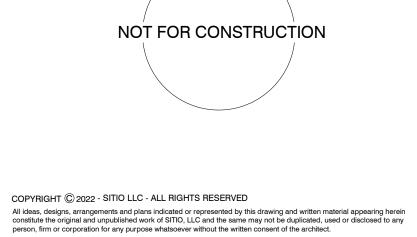
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- STRUCTURAL ENGINEER HUNT ENGINEERING 22 E KING STREET MALVERN, PA 19125 610-644-4600
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- SUSTAINABILITY CONSULTANT **RE:VISION ARCHITECTURE** 133 GRAPE STREET PHILADELPHIA, PA 19127
- COMMISSIONING GREYHAWK 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

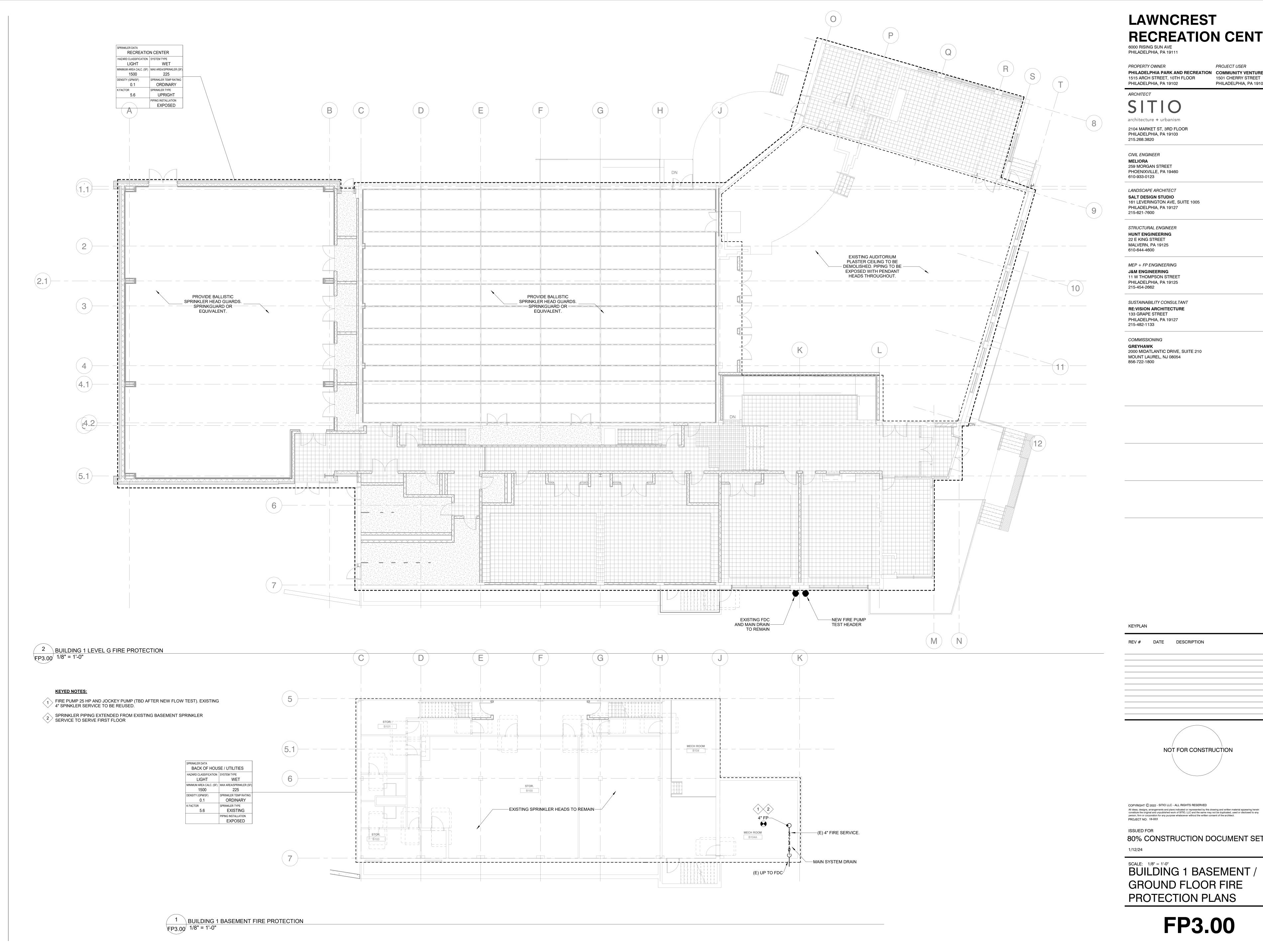
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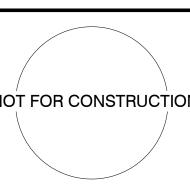
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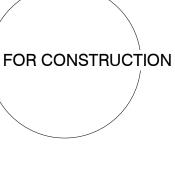
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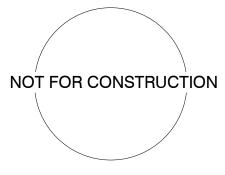


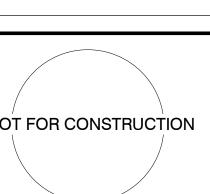


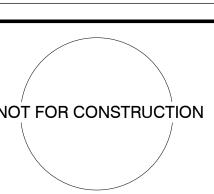


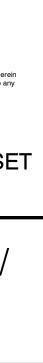
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HVAC SYMBOLS

- CEILING SUPPLY DIFFUSER WITH AIR FLOW ADJUSTMENT WITH AIR FLOW ADJUSTMENT
- CEILING RETURN GRILLE WITH WITH AIR FLOW ADJUSTMENT \square
- CEILING EXHAUST AIR GRILLE WITH AIR FLOW ADJUSTMENT \ge

SUPPLY/OUTSIDE AIR DUCT ELBOW (UP AND DOWN)

RETURN AIR DUCT ELBOW (UP AND DOWN)

EXHAUST AIR DUCT ELBOW (UP AND DOWN)

| | EXISTING TO REMAIN | N |
|-------------------|--|---|
| | EXISTING TO BE REMOVED (DEMO PLANS) | |
| | NEW WORK | |
| | RETURN PIPING (NEW WORK PLANS) | $\overset{\uparrow}{\!$ |
| | MITERED VANED ELBOW - 90 DEG. | 0 |
| | RADIUS ELBOW - 90 DEG. | —) |
| \bigcirc | GAS METER | |
| \triangleleft G | NATURAL GAS CONNECTION | |
| | | |

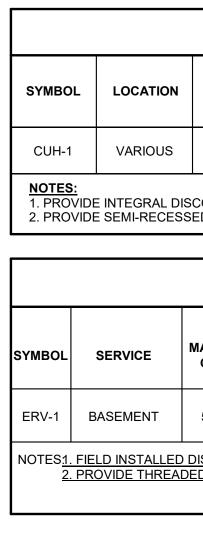
| | | | | | | | | | | | | | | | | | | | | F | ROOF | | JNIT | SCI | HED | ULE | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|--|--|---|--|---|---|---|---|---|--|---|---------------------------------|-----------------------------|------------|------------|---------|----------|--------|----------|---------|----------|---------|---------|--------|----------|----------|-------|--------|--------|----------|----------|--------|--------|-------|----------|----------------------|
| | | | | | | | ાડા | JPPLY F | FAN | E | XHAUST | FAN | | | FILTERS | | | | | COC | | CITY | | | | HOT GAS | S REHEAT | CAPACIT | Y HEAT | PUMP H | EATING (| CAPACITY | GAS | BACKUF | P HEAT | | UNIT ELE | CTRICA | L | | RASIS M | ANUFACTURER |
| SYMBOL | LOCATION | SERVICI | _ 1 | TOTAL | MIN OA | DESIGN ESP | | | FAN | | мото | R ESF | PR | E-FILTEF | ר FI | INAL-FIL | | | MIN NET O | CAP (MBH) | | . EAT | (°F) | LAT | 「 (°F) | MIN | EAT | LAT | MIN | EAT | LAT | | | -v | | | | | | | BASIS WI | |
| 0111202 | | 0Little | - | CFM | CFM | (IN WC | | | RPM | CFM | HP | | | E EF | F % T | YPE | - | TYPE | TOTAL | SENS | TEMP. F | DB | WB | DB | WB | CAPACIT | | (°F) | CAPACIT | | (°F) | (°F) | (MBH) | EAT | LAT | V/PH/HZ | FLA | MC | A MOCI | (LBS) | NAME | MODEL NO. |
| RTU-1 | ROOF | GYM B | ; | 5000 | 1380 | 1.0 | 8 | 2 | 2000 | 5000 | 8 | 1.0 | 2" PLEA | | RV 8 PLE | | /IERV 14 | R410A | 144 | 115 | 95 | 75 | 62 | 54 | 54 | 95 | 54 | 70 | 195 | 68 | 80 | 40 | 120 | 55 | 95 | 208/3/60 | 99 | 108 | 3 125 | 3470 | TRANE | HORIZON ASHP K180 |
| RTU-2 | ROOF | GYM A | | 5000 | 1940 | 1.0 | 8 | 2 | 2000 | 5000 | 8 | 1.0 | 2" PLEA | | | 4" N ATED | /IERV 14 | R410A | 144 | 115 | 95 | 75 | 62 | 54 | 54 | 95 | 54 | 70 | 195 | 68 | 80 | 40 | 120 | 55 | 95 | 208/3/60 | 99 | 108 | 3 125 | 3470 | TRANE | HORIZON ASHP K180 |
| RTU-3 | ROOF | AUDITORI | UM | 5000 | 1000 | 1.0 | 8 | 2 | 2000 | 5000 | 8 | 1.0 | 2" PLEA | | RV 4 8 PLE | 4" N ATED | /IERV 14 | R410A | 144 | 115 | 95 | 75 | 62 | 54 | 54 | 95 | 54 | 70 | 195 | 68 | 80 | 40 | 120 | 55 | 95 | 208/3/60 | 99 | 108 | 3 125 | 3470 | TRANE | HORIZON ASHP K180 |
| RTU-4 | ROOF | CLASSROO | OMS | 5000 | 1120 | 1.0 | 8 | 2 | 2000 | 5000 | 8 | 1.0 | 2" PLEA ⁻ | TED 8 | RV 8 PLE | 4" N ATED | /IERV 14 | R410A | 144 | 115 | 95 | 75 | 62 | 54 | 54 | 95 | 54 | 70 | 195 | 68 | 80 | 40 | 120 | 55 | 95 | 208/3/60 | 99 | 108 | 3 125 | 3470 | TRANE | HORIZON ASHP K180 |
| NOTES | FACTOR RTU SHA SYSTEM ROOFTO CONTRO VARIABL PROVIDE PROVIDE PROVIDE PROVIDE | OP SYSTEMS / Y CONTROL S ALL RESET DI S TO BE INST OP UNITS PRC DL. DEHUMIDI E SPEED SUI E FACTORY IN E FACTORY E E AIRFLOW M E MERV 13 FIL | SYSTEM SCHAR ALLED VIDED FICATIC PPLY FA NSTALLI NERGY ONITOF | / WITH V GE AIR T ON VIBR WITH DU ON SETT ANS PRC ED RETU TRECOV RING ST/ | YAV TYPE EMPERA ATION IS JAL REFI ING SHA VIDED V JRN AIR ERY WH ATION FO | E FAN CC ATURE D SOLATIOI RIGERAN LL BE 60' VITH FAC SMOKE I EEL FOR | DNTROL, URING V N ROOF IT CIRCU %RH AS CTORY IN DETECT(ALL RTI | , DISCH WINTER CURB JITS, W MEASL NSTALL ORS FC US. | HARGE A R MONT WITH S /ITH VAR URED O LED VAR OR EACI | AIR TEN HS UP OUND RIABLE NN THE RIABLE H SYST | IPERATUR TO 80F TC LAGGING SPEED LE RETURN / FREQUEN | RE CON MINIMI ON ROC AD CO AIR HUM CY DRIV | TROL, EC ZE GAS B F SURFA MPRESSC IIDITY SEI /ES FOR | ONOMIZ ACKUP H CE. SEE DR FOR M NSOR. SUPPLY | ER CYCL HEATING INSTALL MODULAT FAN AND | E, AND E OPERAT ATION D FING CO | ENERGY FIONS. ETAILS I OLING C | Y RECOVE FOR INFC CONTROL | RY WHEEI). . REFRIGE | _ WITH EXH | IAUST FANS | FOR BUI | lding Pi | RESSUF | RIZATION | l. | | | ITY | | | | | | | | | | | | | |

| | | | | AIR DEVICE S | CHEDUL | -E |
|-------------|----------|--|---|---|-----------------------|---|
| DESIGNATION | MATERIAL | FINISH | FACE/ SLOTS/ SPACING | BORDER | BASIS | REMARKS |
| CD | STEEL | WHITE POWDER COATED | LOUVERED FACE | SURFACE MOUNT FOR HARD CEILINGS. 24x24 LAY-IN FOR TILE CEILINGS | PRICE SMD 4A-4 WAY | PROVIDE OPPOSED BLADE DAMPER. EXPOSED BORDER WITH PLASTER FRAME FOR HARD CEILINGS, LAY IN FRAME FOR TILE. PROVIDE SQUARE TO ROUND NECK ADAPTER |
| SDG | ALUMINUM | FACTORY PRIME FOR FIELD PAINTING | DOUBLE DEFLECTION CORE WITH 3/4" SPACING | 7/8" BORDER WITH CURVATURE TO MATCH SPIRAL DUCT | PRICE SDGE | SPIRAL DUCT DIFFUSER MATCHED TO SUPPLY DUCT SIZE, WITH INSTALLATION GASKETS AND OPPOSED BLADE DAMPER FOR BALANCING. |
| WSR | STEEL | WHITE POWDER COATED | VERTICAL FACE BARS, DOUBLE DEFLECTION | 1-1/4" BORDER WITH CONCEALED SCREWS | PRICE 520 | OPPOSED BLADE DAMPER. PLASTER FRAME FOR DRYWALL INSTALLATIONS |
| CRR | STEEL | WHITE POWDER COATED | 35 FIXED DEGREE BARS, 22"X22" GRILLE SIZE | SURFACE MOUNT FOR HARD CEILINGS, 24X24 LAY-IN FOR TILE CEILINGS | PRICE 530 | OPPOSED BLADE DAMPER. EXPOSED BORDER WITH PLASTER FRAME FOR HARD CEILINGS. T-BAR BORDER FOR GRID CEILINGS. MECH CONTRACTOR TO PROVIDE TRANSITION FROM RA DUCT TO 24"X24" GRILLE CONNECTION. |
| WEG | STEEL | WHITE POWDER COATED | 35 FIXED DEGREE BARS, VERTICAL BARS, 3/4" SPACING | 1-1/4" BORDER WITH CONCEALED SCREWS | PRICE 530/S | OPPOSED BLADE DAMPER. |
| WRR | STEEL | WHITE POWDER COATED | 30 FIXED DEGREE BARS, VERTICAL BARS, 1/2" SPACING | 1-1/4" BORDER WITH CONCEALED SCREWS | PRICE 99 | HEAVY DUTY RETURN GRILLE |
| CEG | ALUMINUM | WHITE POWDER COATED | 35 FIXED DEGREE HORIZONTAL BARS | 1-1/4" BORDER | PRICE 630 | OPPOSED BLADE DAMPER. PLASTER FRAME WHERE REQ'D. |

NOTES: 1. REFER TO FLOOR PLANS FOR BALANCING CFM AND THE TAKE-OFF SCHEDULE FOR THE NECK SIZE OF EACH DEVICE.

BALL VALVE

| | BALL VALVE | ← U— | 3/4" MINIMUM DOOR UNDERCUT FOR RETURN AIR FLOW | | MECHANICAL EQUIPMENT TAG SEE EQUIPMENT SCHEDULE |
|---|---|-------------|---|----------|---|
| 1 | REDUCED PRESSURE ZONE BACKFLOW PREVENTOR. SEE SPECS BELOW. | ←L— | LOUVER DOOR. PROVIDE MINIMUM 18"x18" LOUVER SIZE | XX XX | EQUIPMENT TYPE DESIGNATOR |
| | CHECK VALVE | ← ∤ | AIRFLOW DIRECTIONAL ARROW | X | MECHANICAL SECTION MARKER |
| | PIPE UP | | | XX | SHEET NUMBER |
| | PIPE DOWN | T | SCHEDULING THERMOSTAT. SEE SPECIFICATIONS BELOW. | | CUT TO THIS POINT. REMOVE DUCTWORK OR PIPING DOWNSTREAM OF THIS POINT |
| | PIPE DROP | | | ¥ | AND CUT AND CAP AS SHOWN. |
| | PIPE TAKE-OFF UP | FD | FIRE DAMPER INSTALLED IN DUCTWORK | Θ | CONNECT TO EXISTING AT THIS POINT. PROVIDE NEW DUCTWORK OR PIPING DOWNSTREAM OF THIS POINT AND CONNECT TO EXISTING AS SHOWN. |



| | EXHAUST FAN SCHEDULE | | | | | | | | | | | | |
|--------|----------------------|---|-----|-----|---------|----------|-------|----------|-------|-----------|-----------|---------|--|
| | | | | | | | | ELEC | RICAL | BASIS MAN | UFACTURER | | |
| SYMBOL | LOCATION | SERVICE | CFM | ESP | FAN RPM | MOTOR HP | SONES | V/PH/HZ | FLA | NAME | MODEL NO | REMARKS | |
| EF-1 | ROOF | BATHROOMS | 600 | 0.5 | 1500 | FRAC | 8.8 | 208/1/60 | 1.5 | GREENHECK | G-090-VG | - | |
| | | ICAL CONTRACTOR SHA E FACTORY CURB. COOF | | | | | | • | | · | | | |

| | | | | | | | | | | 0 | UTD | OOR | HEA | Γ ΡυΜΡ | SCI | HED | ULE | | | | | | | | | |
|--------|----------------------------|---|--------------|----------------|---------------------|------------------------------|-----------------|------------------|----------------------|--------------|--------------|------------------|--------------|------------------------|-------|-------|-----|----------|----------|--------|----------|--------------------|------------------|------------|----------|--|
| | | | | DEEDIO | | | NO. OF | | COOLIN | IG | | | HEATIN | IG | COMPR | ESSOR | FA | NS | ELEC | TRICAL | | NOIDE | OPERATING | | | |
| SYMBOL | LOCATION | SERVICE | TYPE | REFRIG TYPE | SEER | HSPF | INDOOR UNITS | NOM CAP (MBH) | MIN AMB TEMP (°F) | EAT °F DB | EAT °F WB | NOM CAP (MBH) | EAT °F DB | CORRECTED CAP (MBH) | NO. | HP | NO. | HP | V/PH/HZ | MCA | MOCP | NOISE RATING dB | WEIGHT (LBS.) | | BASIS | |
| HP-1 | ROOF | MEETING ROOMS | MINI-SPLIT | 410A | 21 | 11 | 1 | 36 | 14 | 93 | 75 | 36 | 35 | 30 | 1 | 5 | 2 | 1.5 | 208/1/60 | | | 50 | 200 | MITSUBISHI | SUZ KA36 | |
| HP-2 | ROOF | BASEMENT OFFICE 103 | SPLIT VRF | 410A | 17 | 11 | 2 | 60 | 14 | 93 | 75 | 60 | 35 | 50 | 1 | 2 | 1 | 1/8 | 208/1/60 | | | 50 | 400 | MITSUBISHI | MXZ SM60 | |
| NOTES: | ALL CONTRO 2. PROVIDE N | AL CONTRACTO DLS WIRING BET MANUFACTUREF ROOF LINE FOR | WEEN THE IND | OOR AND | OUTDOO JNTING H/ | <u>R UNITS. E</u> ARDWARE | EACH SYSTE | EM WILL BE | E PROVIDEI | D WITH | FACTOF | RY CONTRO | DLS | | | | | <u> </u> | | | <u> </u> | | | | | |

| | | | HEAT PUMP | | | ESP (IN | | CO | OLING | | | | | HEATING | | ELEC | TRICAL | | NOISE | OPERATING | BASIS MA | NUFACTURER |
|--------|--------------|------------------|-----------|----------------|------|---------|-------|------|-------|----|----|----|----------------------|---------|-------|----------|-----------|-----------|--------------------|------------------|------------|------------|
| SYMBOL | LOCATION | TYPE | SYSTEM | REFRIG TYPE | CFM | WC) | | () | | | | | MIN NET CAP (MBH) | EAT F | LAT F | V/PH/HZ | MCA | MOCP | NOISE RATING dB | WEIGHT (LBS.) | NAME | MODEL NO |
| | | | | | | | TOTAL | SENS | DB | WB | DB | WB | | | | | | | | (LD3.) | | |
| AC-1 | MEETING ROOM | DUCTED | HP-1 | 410A | 1200 | 0.25" | 36 | 32 | 74 | 62 | 56 | 55 | 36 | 69 | 90 | 208/1/60 | NOTE 1 | NOTE 1 | 50 | 35 | MITSUBISHI | PEAD 36AA7 |
| AC-2A | OFFICE | WALL CASSETTE | HP-2 | 410A | 300 | 0.01" | 12 | 8 | 74 | 62 | 56 | 55 | 12 | 69 | 90 | 208/1/60 | NOTE 1 | NOTE 1 | 50 | 35 | MITSUBISHI | MSZ GL12NA |
| AC-2B | STORAGE | WALL CASSETTE | HP-2 | 410A | 800 | 0.25" | 24 | 20 | 74 | 62 | 56 | 55 | 24 | 69 | 90 | 208/1/60 | NOTE 1 | NOTE 1 | 50 | 35 | MITSUBISHI | MSZ GL24NA |
| AC-2C | STORAGE | WALL CASSETTE | HP-2 | 410A | 800 | 0.25" | 24 | 20 | 74 | 62 | 56 | 55 | 24 | 69 | 90 | 208/1/60 | NOTE 1 | NOTE 1 | 50 | 35 | MITSUBISHI | MSZ GL24NA |
| | | ED BY OUTDOOR H | 1 | • | | 1 | 1 | | • | • | | 1 | | | | | 1 | | | • | | |

| | HVAC DRAWING SCHEDULE | BUILDING | 1 AND | 2 |
|--------------|---|-------------------------------------|-----------------------|---------------------|
| Sheet Number | Sheet Name | DESIGN DEVELOPMENT 10/11/2023 | BID SET 11/29/2023 | 80% CD 1/12/2024 |
| H0.00 | HVAC COVER SHEET BUILDING 1 AND 2 | • | • | • |
| H2.01 | BUILDING 1 HVAC DEMOLITION PLAN | • | • | • |
| H3.00 | BUILDING 1 BASEMENT / GROUND FLOOR HVAC PLANS | • | • | • |
| H3.01 | BUILDING 1 ROOF HVAC PLAN | • | • | • |
| H3.02 | BUILDING 2 HVAC FLOOR PLAN | • | • | • |
| H6.01 | BUILDING 1 HVAC VENTILATION TABLES | | | • |
| H8.00 | BUILDING 1 HVAC DETAILS | | • | • |

| | | | Н | EATE | R SCH | HEDUL | .E | | | |
|---|------------------|-----|----|--------|-----------------|----------|--------|-------------------|-----------|--------------------------------|
| | | | | ELECTR | | | WEIGHT | DIMENSIONS | BASIS MAN | IUFACTURER |
| | TYPE | CFM | KW | AMPS | NO. OF STEPS | V/PH/HZ | (LBS) | L x D x H (IN) | NAME | MODEL NO |
| | SURFACE MOUNT | 100 | 4 | 14.8 | 2 | 208/1/60 | 26 | 16X2X22 | INDEECO | CCI SERIES MODEL 931U04000N |
| - | | | | | | | | | | |

<u>NOTES:</u> 1. PROVIDE INTEGRAL DISCONNECT SWITCH, THERMAL CONTROL CUT-OUT, UL LISTED, MAGNETIC RELAY, AND THERMOSTAT. 2. PROVIDE SEMI-RECESSED TRIM KIT FOR EACH CUH-1.

| | ENE | RGY | RECOV | ERY | VENT | ILATOR \$ | SCH | EDU | ILE |
|---------------|---------------|----------------|------------|------------|--------|-----------------|-----|-----|--|
| | | | | FIL | TERS | ELECTR | | | BASIS |
| MAX OA CFM | MAX EA CFM | ESP (IN WC) | EFFICIENCY | TYPE | MERV | V/PH/HZ | FLA | w | |
| 500 | 500 | 0.4 | 50% | 1" | MERV 6 | 120/1/60 | 1.8 | 200 | - RENEWAIRE HE 1.5XINH |
| | | - | | | | CONTROL BY A FA | | - | ED TIMECLOCK. INITIALLY SET TO RUN 24/7. |

| COPYRIGI |
|--------------------------------|
| All ideas, de constitute th |
| person, firm |
| PROJECT |
| |
| ISSUEI |
| 80% |
| 00 /0 |

SCALE: As indicated HVAC COVER SHEET BUILDING 1 AND 2

ARCHITECT 215.268.3820

610-933-0123 _____

215-482-1133

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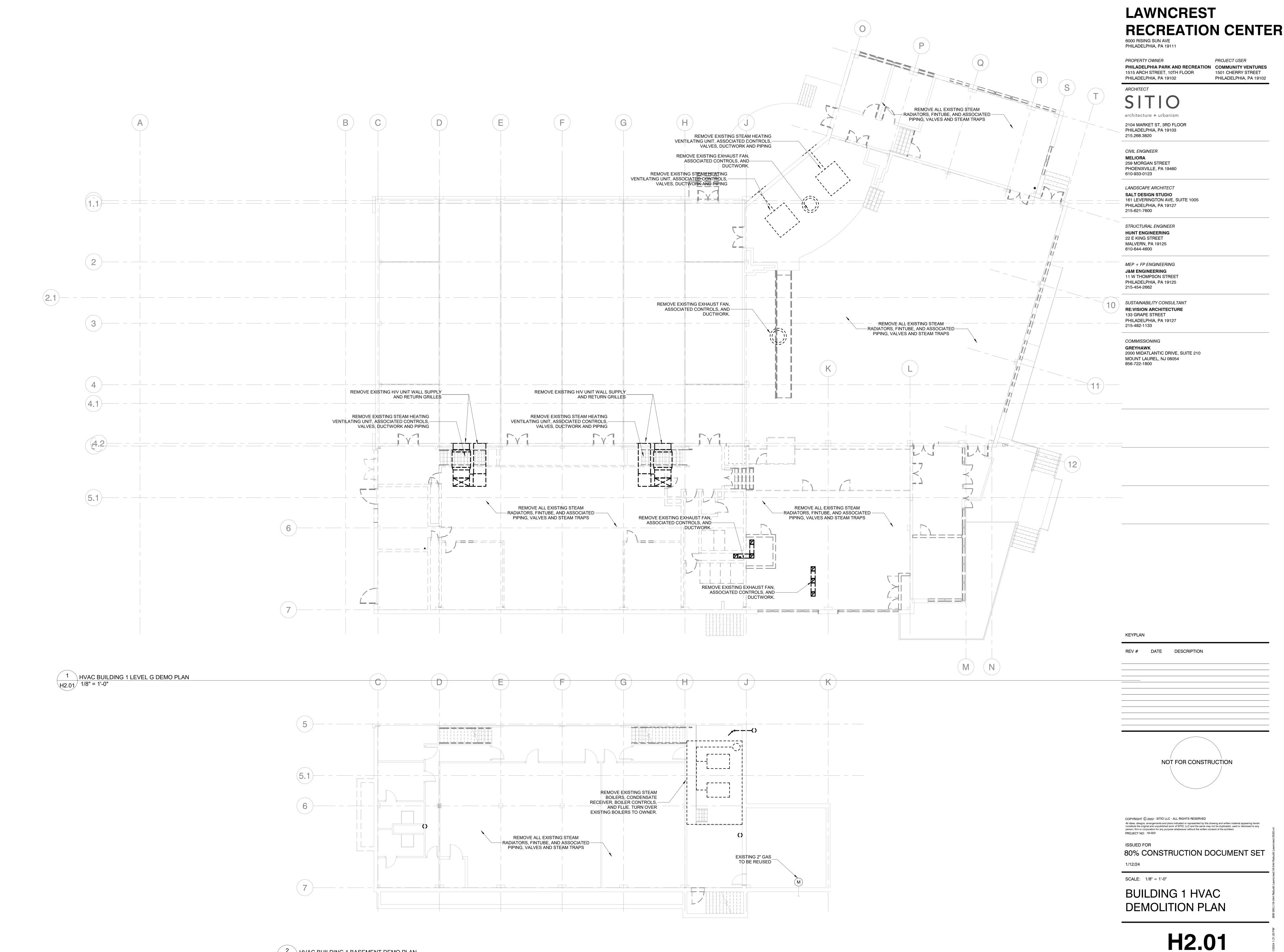
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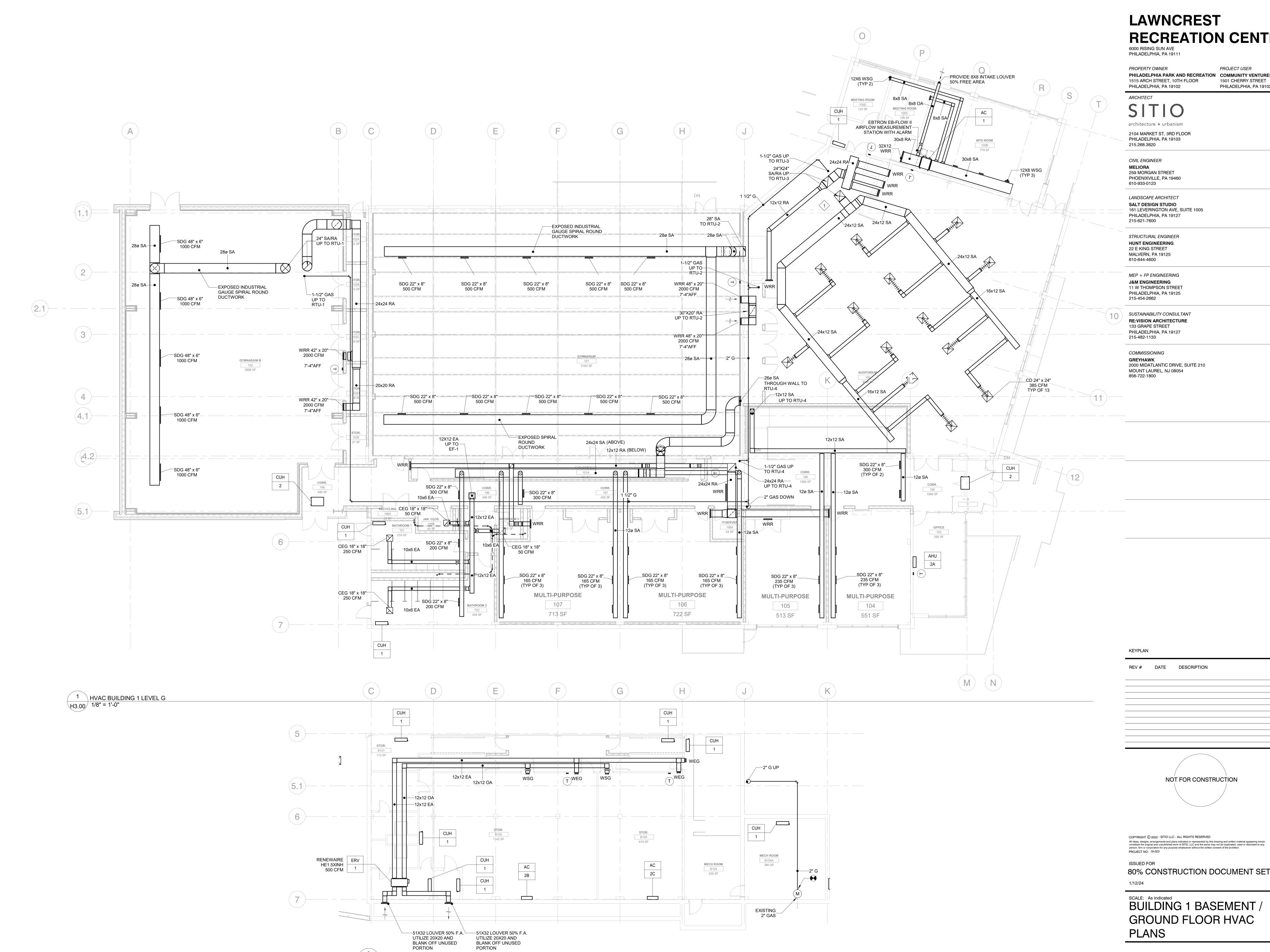
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H0.00



PHILADELPHIA, PA 19102



2 HVAC BUILDING 1 BASEMENT H3.00 1/8" = 1'-0"

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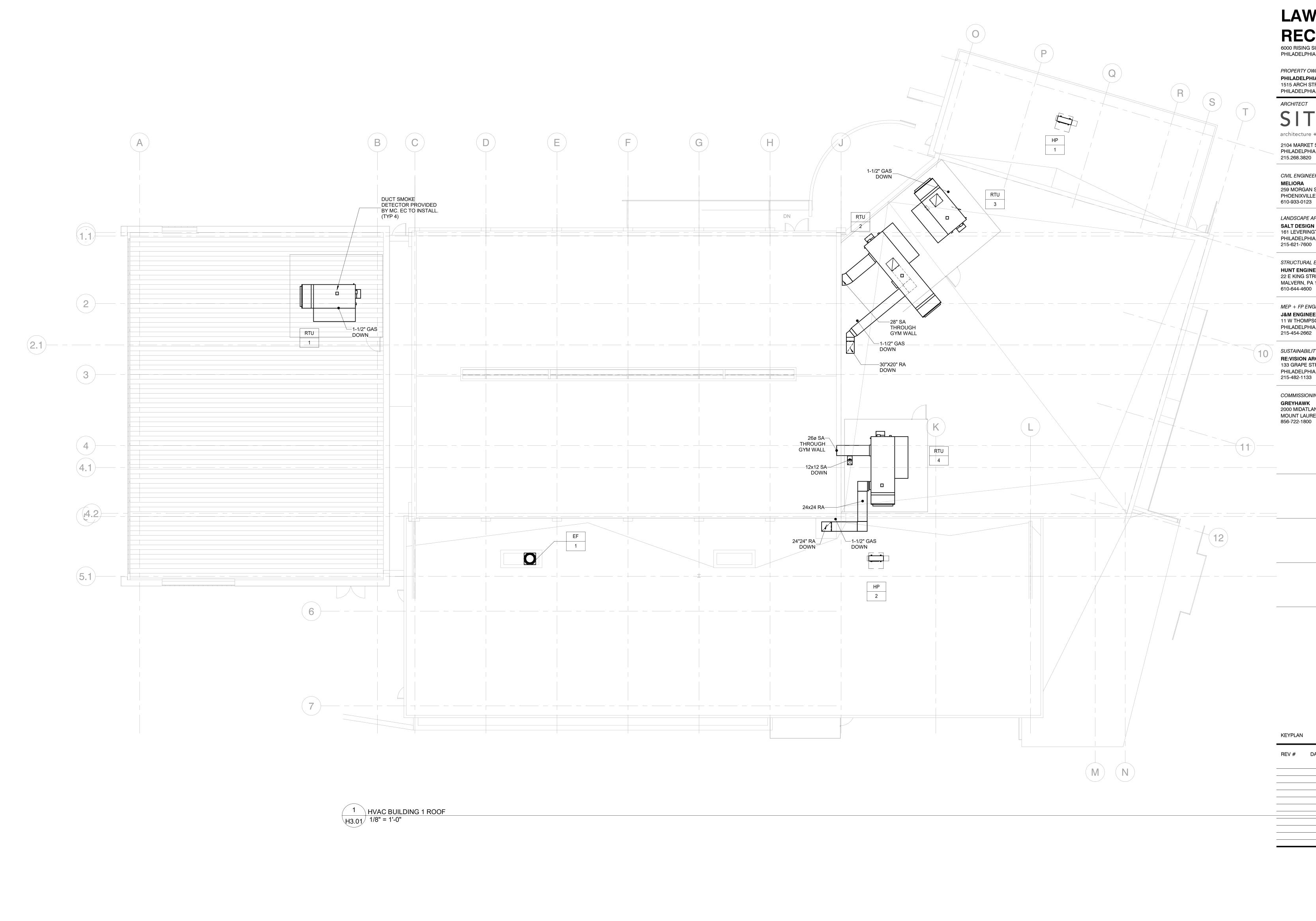
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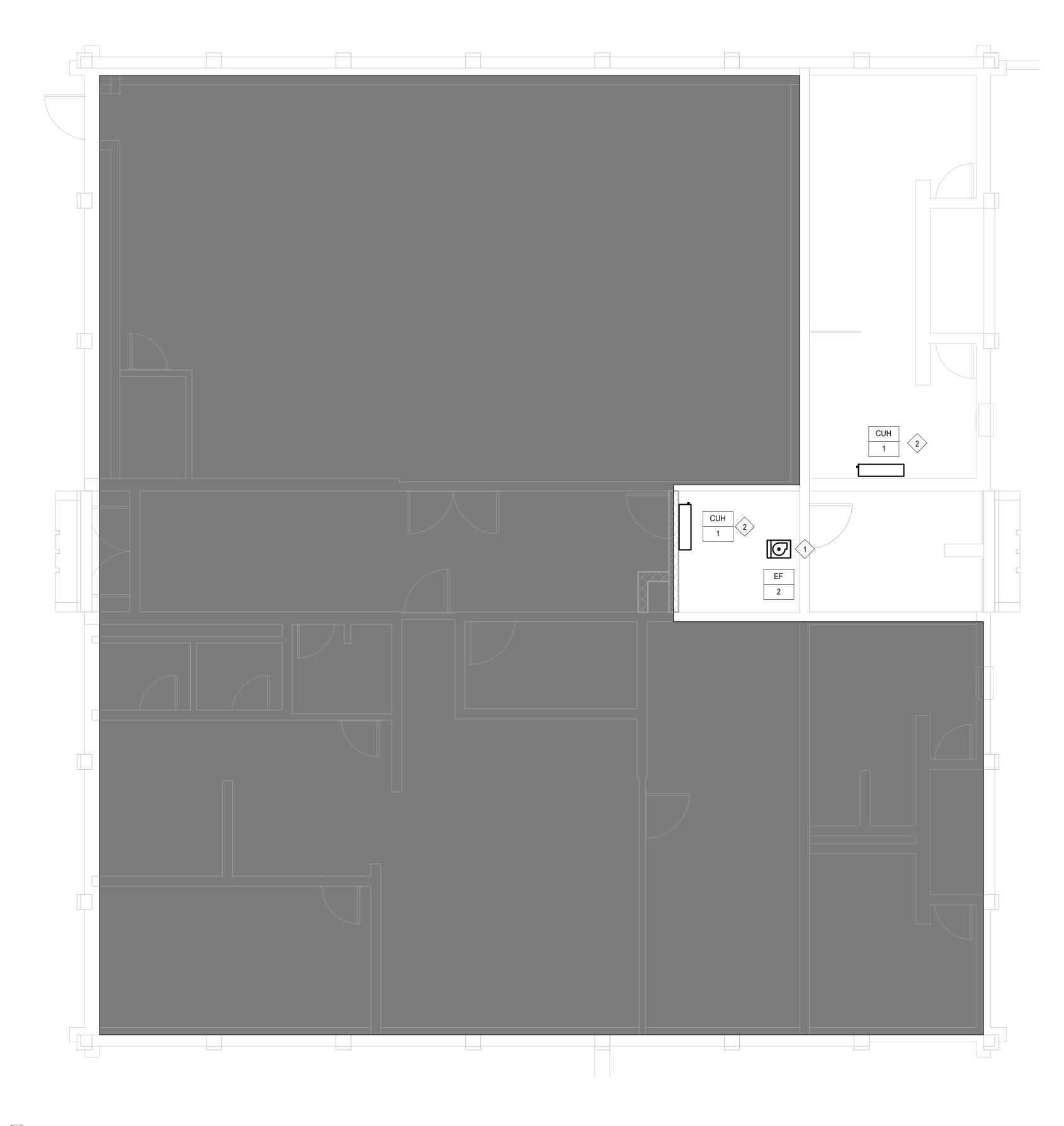
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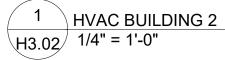
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- STRUCTURAL ENGINEER HUNT ENGINEERING 22 E KING STREET MALVERN, PA 19125 610-644-4600
- MEP + FP ENGINEERING **J&M ENGINEERING** 11 W THOMPSON STREET PHILADELPHIA, PA 19125 215-454-2662
- 10 SUSTAINABILITY CONSULTANT RE:VISION ARCHITECTURE 133 GRAPE STREET PHILADELPHIA, PA 19127 215-482-1133
 - COMMISSIONING **GREYHAWK** 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

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H3.01







ARCHITECT

SITIO architecture + urbanism 2104 MARKET ST, 3RD FLOOR PHILADELPHIA, PA 19103 215.268.3820

610-933-0123 _____

215-454-2662

KEYPLAN

1/12/24

BUILDING 2 HVAC FLOOR PLAN

KEYNOTES:

1 EF: 50 CFM, GREENHECK CSP IN-LINE 2 CABINET UNIT HEATER, 5 KW

LAWNCREST **RECREATION CENTER**

6000 RISING SUN AVE PHILADELPHIA, PA 19111

PROPERTY OWNER PHILADELPHIA PARK AND RECREATION COMMUNITY VENTURES 1515 ARCH STREET, 10TH FLOOR PHILADELPHIA, PA 19102

PROJECT USER 1501 CHERRY STREET PHILADELPHIA, PA 19102

- CIVIL ENGINEER **MELIORA** 259 MORGAN STREET PHOENIXVILLE, PA 19460
- LANDSCAPE ARCHITECT **SALT DESIGN STUDIO** 161 LEVERINGTON AVE, SUITE 1005 PHILADELPHIA, PA 19127 215-621-7600
- STRUCTURAL ENGINEER HUNT ENGINEERING 22 E KING STREET MALVERN, PA 19125 610-644-4600
- MEP + FP ENGINEERING J&M ENGINEERING 11 W THOMPSON STREET PHILADELPHIA, PA 19125
- SUSTAINABILITY CONSULTANT **RE:VISION ARCHITECTURE** 133 GRAPE STREET PHILADELPHIA, PA 19127 215-482-1133
- COMMISSIONING **GREYHAWK** 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

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H3.02

| | - | , | Ventilation | Sizing Su | ummary fo | or P - RTU- | 1 GYM B | | |
|--|------|------------------------------|---|--|---|--|-------------------------------|---|------------------------------|
| Project Name: 19-044 Lawncrest RE Prepared by: J+M Engineering | | | | | | | | | |
| 1. Summary Ventilation Sizing Method Design Condition Occupant Diversity (D) Uncorrected Outdoor Air Intake (V | /ou) | H | leating operation 1.00 | on DO | | | | | |
| System Ventilation Efficiency (Ev) Outdoor Air Intake (Vot) | | | 1.00 | 00 | | | | | |
| Outdoor Air Intake (Vot) | | | 1.00 | 00 76 CFM Time Averaged Occupancy | Outdoor Air Rate | Air | Space Outdoor Air (CFM) | Breathing Zone Outdoor Air (CFM) | Spa Ventilati Efficier |
| Outdoor Air Intake (Vot) | | Space Floor Area | Area Outdoor Air Rate | 00 76 CFM Time Averaged Occupancy | Outdoor Air Rate (CFM/person) | Air Distribution Effectiveness | Outdoor Air | Zone Outdoor Air | Ventilat |
| Outdoor Air Intake (Vot) | | Space Floor Area (ft²) | Area Outdoor Air Rate (CFM/ft²) | 00 76 CFM Time Averaged Occupancy (Occupants) | Outdoor Air Rate (CFM/person) | Air Distribution Effectiveness | Outdoor Air (CFM) | Zone Outdoor Air (CFM) | Ventilat Efficier |
| Outdoor Air Intake (Vot) | | Space Floor Area (ft²) | Area Outdoor Air Rate (CFM/ft²) (Ra) | 00 76 CFM Time Averaged Occupancy (Occupants) | Outdoor Air Rate (CFM/person) (Rp) | Air Distribution Effectiveness (Ez) | Outdoor Air (CFM) | Zone Outdoor Air (CFM) | Ventilat Efficier |

Hourly Analysis Program 5.10

Project Name: 19-044 Lawncrest REC Prepared by: J+M Engineering

Hourly Analysis Program 5.10

| Ventilation Sizing Method Design Condition | |
|---|--|
| Occupant Diversity (D) | |
| Uncorrected Outdoor Air Intake (Vou) | |
| System Ventilation Efficiency (Ev) | |
| Outdoor Air Intake (Vot) | |

| | | | | Time | People | | | Breathing | |
|----------------------------------|-------|-------------|------------------------|-------------|--------------|---------------|-------------|-------------|-------------|
| | | Space Floor | Area Outdoor | Averaged | Outdoor Air | Air | Space | Zone | Space |
| | | Area | Air Rate | Occupancy | Rate | Distribution | Outdoor Air | Outdoor Air | Ventilation |
| | | (ft²) | (CFM/ft ²) | (Occupants) | (CFM/person) | Effectiveness | (CFM) | (CFM) | Efficiency |
| Zone Name / Space Name | Mult. | (Az) | (Ra) | (Pz) | (Rp) | (Ez) | (Voz) | (Vbz) | (Evz) |
| Zone 1 | | | | | | | | | |
| GYMNASIUM A | 1 | 5162.0 | 0.30 | 40.0 | 0.00 | 0.8 | 1936 | 1549 | 1.000 |
| Totals (incl. Space Multipliers) | | | | | | | | 1549 | 1.000 |

Ventilation Sizing Summary for P - RTU-2 GYM A

Ventilation Sizing Summary for P - RTU-3 AUDITORIUM Project Name: 19-044 Lawncrest REC

| 1. Summary Ventilation Sizing Method Design Condition | | H | leating operation | on | | | | | |
|---|-------|------------------------------|---------------------------------------|--|-------------------------------------|--|-------------------------------|---|------------------------------------|
| Occupant Diversity (D) 1.000 Uncorrected Outdoor Air Intake (Vou) 611 System Ventilation Efficiency (Ev) 1.000 Outdoor Air Intake (Vot) 764 CFM | | | | | | | | | |
| | | | | | | | | | |
| 2. Space Ventilation Analysis | | Space Floor Area (ft²) | Area Outdoor Air Rate (CFM/ft²) | Time Averaged Occupancy (Occupants) | | Air | Space Outdoor Air (CFM) | Breathing Zone Outdoor Air (CFM) | Space Ventilation Efficiency |
| 2. Space Ventilation Analysis Zone Name / Space Name | Mult. | Area | Air Rate | Averaged Occupancy | Outdoor Air Rate | Air Distribution Effectiveness | Outdoor Air | Zone Outdoor Air | Ventilation |
| | Mult. | Area (ft²) | Air Rate (CFM/ft²) | Averaged Occupancy (Occupants) | Outdoor Air Rate (CFM/person) | Air Distribution Effectiveness | Outdoor Air (CFM) | Zone Outdoor Air (CFM) | Ventilation Efficiency |
| Zone Name / Space Name | Mult. | Area (ft²) | Air Rate (CFM/ft²) | Averaged Occupancy (Occupants) | Outdoor Air Rate (CFM/person) | Air Distribution Effectiveness (Ez) | Outdoor Air (CFM) | Zone Outdoor Air (CFM) | Ventilation Efficiency |

Hourly Analysis Program 5.10

01/10/2024 06:26PM

Ventilation Sizing Summary for P - RTU-4 MULTIPURPOSE Project Name: 19-044 Lawncrest REC Prepared by: J+M Engineering

Page 1 of 1

01/10/2024

06:01PM

1. Summary Ventilation Sizing Method ASHRAE Std 62.1-2010 ... Heating operation 1.000 Design Condition Occupant Diversity (D) Uncorrected Outdoor Air Intake (Vou) .. 904 CFM System Ventilation Efficiency (Ev) ... 0.807 Outdoor Air Intake (Vot) **1119** CFM

| | | | | Time | People | | | Breathing | |
|----------------------------------|-------|-------------|--------------|-------------|---------|------|-------------|-----------|-------------|
| | | Space Floor | Area Outdoor | Averaged | | | Space | | Space |
| | | Area | Air Rate | Occupancy | Rate | | Outdoor Air | | Ventilation |
| | N. 14 | (ft²) | (CFM/ft²) | (Occupants) | · · · · | | (CFM) | | Efficiency |
| Zone Name / Space Name | Mult. | (Az) | (Ra) | (Pz) | (Rp) | (Ez) | (Voz) | (Vbz) | (Evz) |
| Zone 1 | | | | | | | | | |
| BATHROOM 1 | 1 | 233.0 | 0.06 | 0.0 | 0.00 | 0.8 | 17 | 14 | 1.046 |
| BATHROOM 2 | 1 | 354.0 | 0.06 | 0.0 | 0.00 | 0.8 | 27 | 21 | 1.041 |
| CORRIDOR 196 | 1 | 499.0 | 0.06 | 0.0 | 0.00 | 0.8 | 37 | 30 | 1.035 |
| CORRIDOR 197 | 1 | 405.0 | 0.06 | 0.0 | 0.00 | 0.8 | 30 | 24 | 1.039 |
| CORRIDOR 198 | 1 | 1069.0 | 0.06 | 0.0 | 0.00 | 0.8 | 80 | 64 | 1.010 |
| MULTIPURPOSE 104 | 1 | 5551.0 | 0.06 | 10.0 | 7.50 | 0.8 | 510 | 408 | 0.807 |
| MULTIPURPOSE 105 | 1 | 513.0 | 0.06 | 10.0 | 7.50 | 0.8 | 132 | 106 | 0.983 |
| MULTIPURPOSE 106 | 1 | 722.0 | 0.06 | 10.0 | 7.50 | 0.8 | 148 | 118 | 0.974 |
| MULTIPURPOSE 107 | 1 | 713.0 | 0.06 | 10.0 | 7.50 | 0.8 | 147 | 118 | 0.975 |
| Totals (incl. Space Multipliers) | | | | | | | | 904 | 0.807 |

Page 1 of 1

Hourly Analysis Program 5.10

Prepared by: J+M Engineering

Ventilation Sizing Summary for P - HP-1 MEETING ROOMS Project Name: 19-044 Lawncrest REC

1. Summary ASHRAE Std 62.1-2010 Ventilation Sizing Method Design Condition . .. Heating operation

| Airflow Intake Ventilation Intake Zone Name (CFM) (CFM) Efficiency (CFM) (Voz) (Vou) (Ev) (Vot) |
|---|
| (Voz) (Vou) (Ev) (Vot) |
| |
| Zone 1 167 0.956 174 |
| System Total 174 |

Outdoor air intake flow rates for all terminal zones are summed to determine the total system outdoor air flow rate.

2. Space Ventilation Analysis

| | | Space Floor Area (ft²) | | Occupancy | | Air | | Breathing Zone Outdoor Air (CFM) | Space Ventilation Efficiency |
|----------------------------------|-------|------------------------------|------|-----------|------|------|-------|---|------------------------------------|
| Zone Name / Space Name | Mult. | (Az) | (Ra) | (Pz) | (Rp) | (Ez) | (Voz) | (Vbz) | (Evz) |
| Zone 1 | | | | | | | | | |
| MEETING RM 100B | 1 | 774.0 | 0.06 | 10.0 | 7.50 | 0.8 | 152 | 121 | 0.956 |
| MEETING RM 100C | 1 | 129.0 | 0.06 | 2.0 | 7.50 | 0.8 | 28 | 23 | 1.013 |
| MEETING RM 100D | 1 | 123.0 | 0.06 | 2.0 | 7.50 | 0.8 | 28 | 22 | 1.013 |
| Totals (incl. Space Multipliers) | | | | | | | | 167 | 0.956 |

01/10/2024 06:31PM

Page 1 of 1

Ventilation Sizing Summary for P - HP-2 Project Name: 19-044 Lawncrest REC

01/10/2024

06:07PM

Page 1 of 1

1. Summary ASHRAE Std 62.1-2010 Ventilation Sizing Method Design Condition . .. Heating operation

| Zone Name | Zone Outdoor Airflow (CFM) | Outdoor Air Intake | | Outdoor Air Intake (CFM) |
|-----------|-------------------------------------|-----------------------|-------|--------------------------------|
| | (Voz) | (Vou) | (Ev) | (Vot) |
| Zone 1 | 86 | | 1.000 | 86 |
| Zone 2 | 46 | | 1.000 | 46 |
| Zone 3 | 22 | | 1.000 | 22 |
| | | | | |

System Total Note: For terminal systems, Standard 62.1 considers each terminal unit to be a "ventilation system". Standard 62.1 calculations are performed separately for each terminal unit zone. Outdoor air intake flow rates for all terminal zones are summed to determine the total system outdoor air flow rate.

2. Space Ventilation Analysis 2 1 7one: 7one 1

Hourly Analysis Program 5.10

Prepared by: J+M Engineering

| | | | | Time | People | | | Breathing | |
|--|-------|---------------------|-------------------------------|--------------------------------------|---|--|----------------------|---|---------------------------------|
| | | Space Floor Area | Area Outdoor Air Rate | Averaged Occupancy | | | Space Outdoor Air | Zone Outdoor Air | Space Ventilatior |
| | | (ft²) | (CFM/ft ²) | | | Effectiveness | (CFM) | (CFM) | Efficiency |
| Zone Name / Space Name | Mult. | (Az) | (Ra) | (Pz) | (Rp) | (Ez) | (Voz) | (Vbz) | (Evz |
| Zone 1 | | | | | | | | | |
| STORAGE B100 | 1 | 1142.0 | 0.06 | 0.0 | 0.00 | 0.8 | 86 | 69 | 1.000 |
| | | | | | | | | 69 | 1.00 |
| | | | | | | | | | 1.00 |
| Totals (incl. Space Multipliers) 2.2 Zone: Zone 2 | | | | Time | People | | | | 1.000 |
| , | | Space Floor | Area Outdoor | Time Averaged | | | Space | Breathing | |
| , | | Space Floor Area | Area Outdoor Air Rate | Averaged | Outdoor Air | Air | Space Outdoor Air | | Space |
| , | | • | | Averaged Occupancy | Outdoor Air | Air Distribution | | Breathing Zone | Space |
| , | Mult. | Area | Air Rate (CFM/ft²) | Averaged Occupancy | Outdoor Air Rate (CFM/person) | Air Distribution Effectiveness | Outdoor Air | Breathing Zone Outdoor Air | Space Ventilation |
| 2.2 Zone: Zone 2 | Mult. | Area (ft²) | Air Rate (CFM/ft²) | Averaged Occupancy (Occupants) | Outdoor Air Rate (CFM/person) | Air Distribution Effectiveness | Outdoor Air (CFM) | Breathing Zone Outdoor Air (CFM) | Spac Ventilatio Efficienc |
| 2.2 Zone: Zone 2 Zone Name / Space Name | Mult. | Area (ft²) | Air Rate (CFM/ft²) (Ra) | Averaged Occupancy (Occupants) | Outdoor Air Rate (CFM/person) (Rp) | Air Distribution Effectiveness (Ez) | Outdoor Air (CFM) | Breathing Zone Outdoor Air (CFM) | Spac Ventilatio Efficienc |

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Page 1 of 1 Hourly Analysis Program 5.10 Page 1 of 2



ARCHITECT

215.268.3820

610-933-0123 -----

215-482-1133

KEYPLAN

01/10/2024 06:07PM

Page 2 of 2

PROJECT NO: 18-023

ISSUED FOR 80% CONSTRUCTION DOCUMENT SET 1/12/24

SCALE: BUILDING 1 HVAC VENTILATION TABLES

Ventilation Sizing Summary for P - HP-2

Project Name: 19-044 Lawncrest REC Prepared by: J+M Engineering

Hourly Analysis Program 5.10

| | | | | Time | People | | | Breathing | |
|----------------------------------|-------|-------------|------------------------|-------------|--------------|---------------|-------------|-------------|-------------|
| | | Space Floor | Area Outdoor | Averaged | Outdoor Air | Air | Space | Zone | Space |
| | | Area | Air Rate | Occupancy | Rate | Distribution | Outdoor Air | Outdoor Air | Ventilation |
| | | (ft²) | (CFM/ft ²) | (Occupants) | (CFM/person) | Effectiveness | (CFM) | (CFM) | Efficiency |
| Zone Name / Space Name | Mult. | (Az) | (Ra) | (Pz) | (Rp) | (Ez) | (Voz) | (Vbz) | (Evz) |
| Zone 3 | | | | | | | | | |
| OFFICE 103 | 1 | 295.0 | 0.06 | 3.0 | 0.00 | 0.8 | 22 | 18 | 1.000 |
| Totals (incl. Space Multipliers) | | | | | | | | 18 | 1.000 |



LAWNCREST **RECREATION CENTER**

6000 RISING SUN AVE PHILADELPHIA, PA 19111

PROPERTY OWNER PHILADELPHIA PARK AND RECREATION COMMUNITY VENTURES 1515 ARCH STREET, 10TH FLOOR PHILADELPHIA, PA 19102

PROJECT USER 1501 CHERRY STREET PHILADELPHIA, PA 19102

SITIO architecture + urbanism 2104 MARKET ST, 3RD FLOOR PHILADELPHIA, PA 19103

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LANDSCAPE ARCHITECT SALT DESIGN STUDIO 161 LEVERINGTON AVE, SUITE 1005 PHILADELPHIA, PA 19127 215-621-7600

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MEP + FP ENGINEERING J&M ENGINEERING 11 W THOMPSON STREET PHILADELPHIA, PA 19125 215-454-2662

SUSTAINABILITY CONSULTANT **RE:VISION ARCHITECTURE** 133 GRAPE STREET PHILADELPHIA, PA 19127

COMMISSIONING GREYHAWK 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

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H6.01

PLUMBING SYMBOLS

| | _ | |
|--|---|----------|
| NEW SANITARY PIPE | | BA |
| EXISTING SANITARY PIPE TO REMAIN | | |
| NEW VENT PIPE | | RE PR |
| EXISTING VENT PIPE TO REMAIN | | |
| NEW DOMESTIC HOT WATER PIPE | $\overset{\bullet}{\scriptstyle\checkmark}$ | CH |
| EXISTING DOMESTIC HOT WATER TO REMAIN | | |
| NEW DOMESTIC COLD WATER PIPE | \square | VA |
| EXISTING DOMESTIC COLD WATER TO REMAIN | \bigwedge | |
| DEMOLISH PIPING | \bigcirc | PL |
| | | |

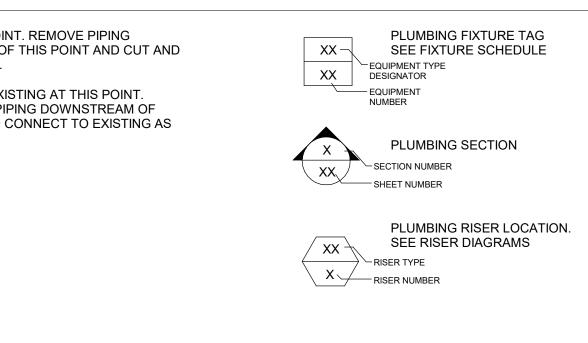
| <u>o</u> l | BALL VALVE |
|--------------|---|
| d / | REDUCED PRESSURE ZONE BACKFLOW PREVENTOR. SEE SPECS BELOW. |
| \downarrow | CHECK VALVE |
| \square | VACUUM BREAKER |
| \supset | PLUMBING PUMP |

| | | | | | | PLUMBING | FIXTURE | SCHEDULE | |
|------|--|---|---|---|--|---------------------------------|--|--|--|
| TAG | FIXTURE | BASIS OF DESIGN MANUFACTURER AND MODEL | APPLICABLE STANDARD | MATERIAL | MOUNTING AND OUTLET | DIMENSIONS | RIM HEIGHT | FAUCETS, FITTINGS, AND ACCESSORIES | BASIS |
| WC-1 | FLOOR-MOUNTED ELONGATED WATER CLOSET MANUAL FLUSH | KOHLER "HIGHCLIFF" (K-96057) | ASME A112.19.2M ADA | VITREOUS CHINA | FLOOR-MOUNTED BACK-OUTLET TOP SPUD | 26"x14"x11.75" | ADA 17"-19" SEE ARCH ELEVATION | MANUAL FLUSH VALVE: SLOAN TOP SPUD MODEL ROYAL 111-1.6 EXPOSED CHROME PLATED W/ ADA COMPLIANT NO HOLD OPEN HANDLE. SEATS: KOHLER, OLSONITE, BEMIS, OR CHURCH OPEN FRONT, LESS COVER, COMMERCIAL GRADE W/CHECK HINGE SUPPLY: CHROME PLATED BRASS, 1-1/2"TOP INLET SPUD. CARRIER: JOSAM (SINGLE OR BACK-TO-BACK) | MIN PRESSURE: 25 PSI |
| U-1 | URINAL MANUAL FLUSH | KOHLER "DEXTER (K-5016-ET) | ASME A112.19.2M | VITREOUS CHINA | WALL-MOUNTED BACK-OUTLET TOP SPUD | 14-1/8"x18-7/8"x26-1/8" | ADA 17" MAX SEE ARCH ELEVATION | MANUAL FLUSH VALVE: SLOAN "ROYAL" MODEL 186.0.125 EXPOSED CHROME PLATED W/ ADA COMPLIANT NON-HOLD OPEN HANDLE. SUPPLY: CHROME-PLATED, 3/4" TOP INLET SPUD CARRIER: JOSAM CONCEALED TYPE. | DESIGN CONSUMPTION: 0.125 GPF MIN PRESSURE: 20 PSI SIPHON JET FLUSH ACTION COLOR: WHITE WATER SENSE LABELED |
| L-1 | WALL MOUNTED LAVATORY | Kohler "Pinoir" (K-2035-1) | ASME A112.19.2M FAUCET ASME A112.18.1M | VITREOUS CHINA | WALL-MOUNTED ADA THREE HOLE | 20-1/2"x18-1/4" | ADA 34" SEE ARCH ELEVATION | FAUCET: KOHLER "CORALAIS" MODEL K-15241 FAUCET WITH STRAIGHT BLADE WRIST HANDLES AND ASSE 1070 TEMPERATURE LIMIT VALVE SET TO 110F. PROVIDE BRUSHED NICKEL FINISH. DRAIN: GRID TYPE, POLISHED CHROME, VANDAL RESISTANT. TRAP TYPE: "MCGUIRE" P-TRAP CHROME PLATED CAST BRASS BODY WITH CLEANOUT TUBULAR WALL BEND. SUPPLY KITS: "MCGUIRE" MODEL 170 CARRIER: JOSAM WALL MOUNTED CONCEALED ARM SUPPORT | FRONT OVERFLOW 0.35 GPM FAUCET FLOW RATE SINK COLOR: WHITE FAUCET FINISH: CHROME PLATED WATER SENSE LABELED |
| S-1 | KITCHEN SINK | ELKAY "CROSSTOWN" MODEL ECTSRAD25226TBG 1 HOLE | ANSI A112.19.3M FAUCET ASME A112.18.1M | STAINLESS STEEL TYPE 304 18 GAUGE MIN | UNDERMOUNT | 25"x22"x6" | SEE ARCH ELEVATION | FAUCET: ELKAY "ALLURE" MODEL LK7921SSS DECK MOUNTED STRAIGHT SWING SPOUT W/ SINGLE LEVER AND WITH DRIP-FREE REMOVABLE CARTRIDGE DRAIN: GRID TYPE, POLISHED CHROME. TRAP TYPE: "MCGUIRE" 1-1/2"P-TRAP AND TAILPIECE. | FAUCET INSTALLED IN ONE HOLE 1.5 GPM FAUCET FLOW SINK FINISH: STAINLESS STEEL FAUCET FINISH: POLISHED CHROME WATER SENSE LABELED |
| DF-1 | INDOOR DRINKING FOUNTAIN | ELKAY "SWIRLFLO" EMABFTL8WSSK BI-LEVEL WITH BOTTLE FILLER | ADA ASME A112.19.3 CSA B45.4 | STAINLESS STEEL TYPE 304 18 GAUGE MIN SATIN FINISH | WALL MOUNTED WITH FRONT ACCESS PANEL | 38.5" WIDEx42" TALL 12" DEEP | 27" ADA LOW BOWL, 34" HIGH BOWL | SELF CONTAINED COOLER, FILTER UNIT, AND WATER FOUNTAIN UNIT, DOUBLE BOWL, WITH FRONT ACCESS PANEL. COOLER SIZED FOR 8 GPH OF 50F DRINKING WATER PUSH BUTTON OPERATION, 5 YEAR WARRANTY ON THE CHILLER. AT THE COMPLETION OF CONSTRUCTION, THE PLUMBING CONTRACTOR IS TO PROVIDE (2) SPARE FILTER CARTRIDGES TO THE BUILDING OWNER. | MIN PRESSURE: 20 PSI |
| DF-2 | OUTDOOR DRINKING FOUNTAIN | ELKAY "ezH2O" MODEL LK4420BF1U HIGH/LOW BOWLS NON-REFRIGERATED | ADA ASME A112.19.3 CSA B45.4 | STAINLESS STEEL TYPE 316 | FREE STANDING | 31" WIDE x 64" TALL 14" DEEP | 27" ADA LOW BOWL, 34" HIGH BOWL | SELF CONTAINED WATER FOUNTAIN UNIT, DOUBLE BOWL, WITH FRONT ACCESS PANEL. PUSH BUTTON OPERATION AT THE COMPLETION OF CONSTRUCTION, THE PLUMBING CONTRACTOR IS TO PROVIDE (2) SPARE FILTER CARTRIDGES TO THE BUILDING OWNER. | MIN PRESSURE: 20 PSI |
| MR-1 | MOP RECEPTOR FLOOR MOUNTED | FIAT "STOCKTON" MODEL TSB 3001 | - | PRECAST TERRAZZO | FLOOR MOUNTED | 32"x32"x12" | FLOOR MOUNTED | FAUCET: "FIAT PRODUCT" MODELS 830 AA WALL MOUNTED, CHROME PLATED, W/ VACUUM BREAKER, INTEGAL STOPS. SPOUT W/PAIL HOOK, WALL BRACE AND 3/4" HOSE THREAD DRAIN: STAINLESS STEEL GRID-TYPE, POLISHED CHROME, VANDAL PROOF. RIM GUARD: STAINLESS STEEL MOP HANGER FIAT NO: 889-CC-24" HOSE & HOSE BRACKET FIAT NO: 832-AA-30" LONG STRAINER FIAT NO: 1453-BB 16 GAUGE #302 STAINLESS STEEL ATTACHED WITH FLAT HEAD SLOTTED MACHINE SCREWS SEALANT: SILICONE #833-AA STAINLESS STEEL 24" WALL GUARD: FIAT NO: MSG 24 | SPRAY OUTLET W/ 2.5 GPM FLOW RATE |

| | ELECTRIC WATER HEATER SCHEDULE | | | | | | | | | | | |
|--------|--|-----------------------|-------------------|-------------------|-------------------------------------|-----------------------|-------------------------------|------------------------------|---|--|--|--|
| SYMBOL | SERVICE | CAPACITY (GALLONS) | WATER ENT (°F) | WATER LVG (°F) | RECOVERY (90°F RISE) (GAL/HR) | ELECTRICAL V/PH/HZ | ELEMENT (WATTS) | OPERATING WEIGHT (LBS) | BASIS | | | |
| EWH-1 | BATHROOM LAVS AND JANITORS CLOSET | 80 | 50 | 120 | 21 | 208/1/60 | 4500/4500 NON-SIMULTANEOUS | 126 + 308 | BRADFORD WHITE MODEL RE280LN6 QUANTITY = REFER TO PLANS | | | |
| EWH-2 | REMOTE SINKS | - | 50 | 95 | - | 208/1/60 | 7000 INSTANTANEOUS | 4 | EEMAX MODEL SP95 QUANTITY = REFER TO PLANS | | | |
| 1. E | TES: ELECTRICAL CONTRACTOF PROVIDE DRIP PAN WITH C | | | | CT SWITCH. | · · · · · · | | | | | | |

| | PLUMBING SPECIALTIES SCHEDULE | | | | | | | |
|-------|-------------------------------|--|--------------------------|---------------------------------|----------------------------------|---------------------------------|---|---|
| TAG | FIXTURE | BASIS OF DESIGN MANUFACTURER AND MODEL | APPLICABLE STANDARD | BODY MATERIAL | COLOR/FINISH | OVERALL SIZE | ACCESSORIES AND REMARKS | OPTIONS |
| FD-1 | FLOOR DRAIN | JOSAM SUPER-FLO SERIES 3000-A | ASME A112.21.1M | CAST-IRON | SATIN BRONZE STRAINER HEAD | 5" DIA STRAINER 2" PIPE SIZE | FLASHING COLLAR, WEEPHOLES, AND ADJUSTABLE STRAINER HEAD | 1/2" TRAP PRIMER CONNECTION WHERE INDICATED ON FLOOR PLANS |
| FCO | FLOOR CLEANOUT | JOSAM MODEL 55000 | ASME A112.36.2M | CAST-IRON | NICKEL BRONZE | 6" DIAMETER | ROUND MEDIUM DUTY WITH TAPER THREAD SEAL, CLOSURE PLUG. HUB AND SPIGOT OR HUBLESS, TEE COMPATIBLE WITH PIPING. | 1/2" TRAP PRIMER CONNECTION WHERE INDICATED ON FLOOR PLANS |
| WCO | WALL CLEANOUT | JOSAM MODEL 58790 | ASME A112.36.2M | CAST-IRON | STAINLESS STEEL | 5-1/2" COVER | ROUND, CAST-BRONZE TAPER THREAD PLUG, HUB AND SPIGOT OR HUBLESS, TEE FITTING COMPATIBLE WITH PIPING, AND ACCESS COVER | VANDAL PROOF SCREWS |
| TP-1 | TRAP PRIMER | PRECISION PLUMBING PRODUCT MODEL P1-500 AND P2-500 | ASSE-1018 | BRONZE OR RESISTANT BRASS | CHROME PLATED OR ROUGH BRONZE | | WATER-SUPPLY-FED TYPE, PRESSURE DROP OF 5 TO 10 PSI IS REQUIRED TO ACTIVATE THE PRIMING VALVE. OPERATING RANGE: 35 TO 75 PSI | |
| SA-1 | SHOCK ABSORBER | JOSAM SERIES 75000 | ASSE-1010 | STAINLESS STEEL | STAINLESS STEEL | | BELLOWS TYPE WITH PRESSURIZED CUSHIONING CHAMBER TEMPERATURE RANGE: 100 TO 300 F MAX OPERATING PRESSURE: 125 PSI MAX STATIC PRESSURE: 250 PSI | |
| TMV-1 | THERMOSTATIC MIXING VALVE | WATTS SERIES LFMMV | ASSE-1070 | LEAD FREE CAST ALLOY | ROUGH ALLOY | | MIXING VALVE TO BE PROVIDED FOR EACH BATHROOM GROUP, AND TEMPERED HOT WATER SUPPLY PIPED TO FIXTURES. FLOWRATE RANGE: 0.5 TO 12 GPM TEMPERATURE RANGE: 80 TO 120 F MAX OPERATING PRESSURE: 150 PSI | |
| RD-1 | ROOF DRAIN | JOSAM LEVELEZE SERIES 21500-AE | ASME A112.21.2M | CAST-IRON | ROUGH BRONZE DOME | 15" DIAMETER | CAST-IRON W/ ADJUSTABLE EXTENSION SLEEVE, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP | UNDERDECK CLAMP, SUMP RECEIVER, BRONZE DOME MATERIAL |
| OD-1 | ROOF DRAIN OVERFLOW | J.R. SMITH MODEL 1070 | ASME A112.21.2M | CAST-IRON | ROUGH BRONZE DOME | 15" DIAMETER | | |
| OS-1 | OVERFLOW SCUPPER | JOSAM SERIES 25010 | | | | | | |
| HB-1 | WALL HYDRANT CONCEALED | WOODFORD MODEL B65 | ASSE 1019-B ASSE 1011 | BRASS BODY WITH COPPER TUBES | CHROME FINISH BOX | 7.5"x6.5" | CONCEALED INSTALLATION, NON-FREEZE WITH HOSE CONNECTION, INTEGRAL VACUUM BREAKER, "T" KEY OPERATED | 7.5" WALL DEPTH MINIMUM. COORDINATE WITH ARCH DETAILS. 125 PSI MAX PRESSURE |

| | | \blacklozenge | CUT TO THIS POIN DOWNSTREAM O CAP AS SHOWN. | |
|-----------|--|--------------------|---|--|
| \bowtie | DOMESTIC COLD WATER CONNECTION WITH CHROME STOP VALVE | $\mathbf{\hat{A}}$ | CONNECT TO EXI | |
| \bowtie | DOMESTIC HOT WATER CONNECTION WITH CHROME STOP VALVE | • | PROVIDE NEW PIF THIS POINT AND (SHOWN. | |
| M | WATER METER | 0 | PIPE UP | |
| | | —Э | PIPE DOWN | |
| | | | PIPE DROP | |



PLUMBING DRAWING SCHEDULE BUILDING 1 AND 2

| Sheet Number | Sheet Name | DESIGN DEVELOPMENT 10/11/2023 | BID SET 11/29/2023 | 80% CD 1/12/2024 |
|--------------|---|-------------------------------------|-----------------------|---------------------|
| P0.00 | PLUMBING COVER SHEET BUILDING 1 AND 2 | • | • | • |
| P2.01 | PLUMBING BUILDING 1 DEMOLITION PLAN | • | • | • |
| P3.00 | BUILDING 1 BASEMENT / GROUND FLOOR PLUMBING PLANS | • | • | • |
| P3.01 | BUILDING 1 ROOF PLUMBING PLAN | • | • | • |
| P3.02 | BUILDING 2 PLUMBING FLOOR PLANS | • | • | • |
| P4.00 | BUILDING 1 ENLARGED PLANS AND RISER DIAGRAMS | • | • | • |
| P8.00 | BUILDING 1 PLUMBING DETAILS | | • | • |

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PROJECT USER 1501 CHERRY STREET PHILADELPHIA, PA 19102

SITIO architecture + urbanism 2104 MARKET ST, 3RD FLOOR PHILADELPHIA, PA 19103 215.268.3820

ARCHITECT

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- COMMISSIONING GREYHAWK 2000 MIDATLANTIC DRIVE, SUITE 210 MOUNT LAUREL, NJ 08054 856-722-1800

KEYPLAN

1/12/24

SCALE: As indicated

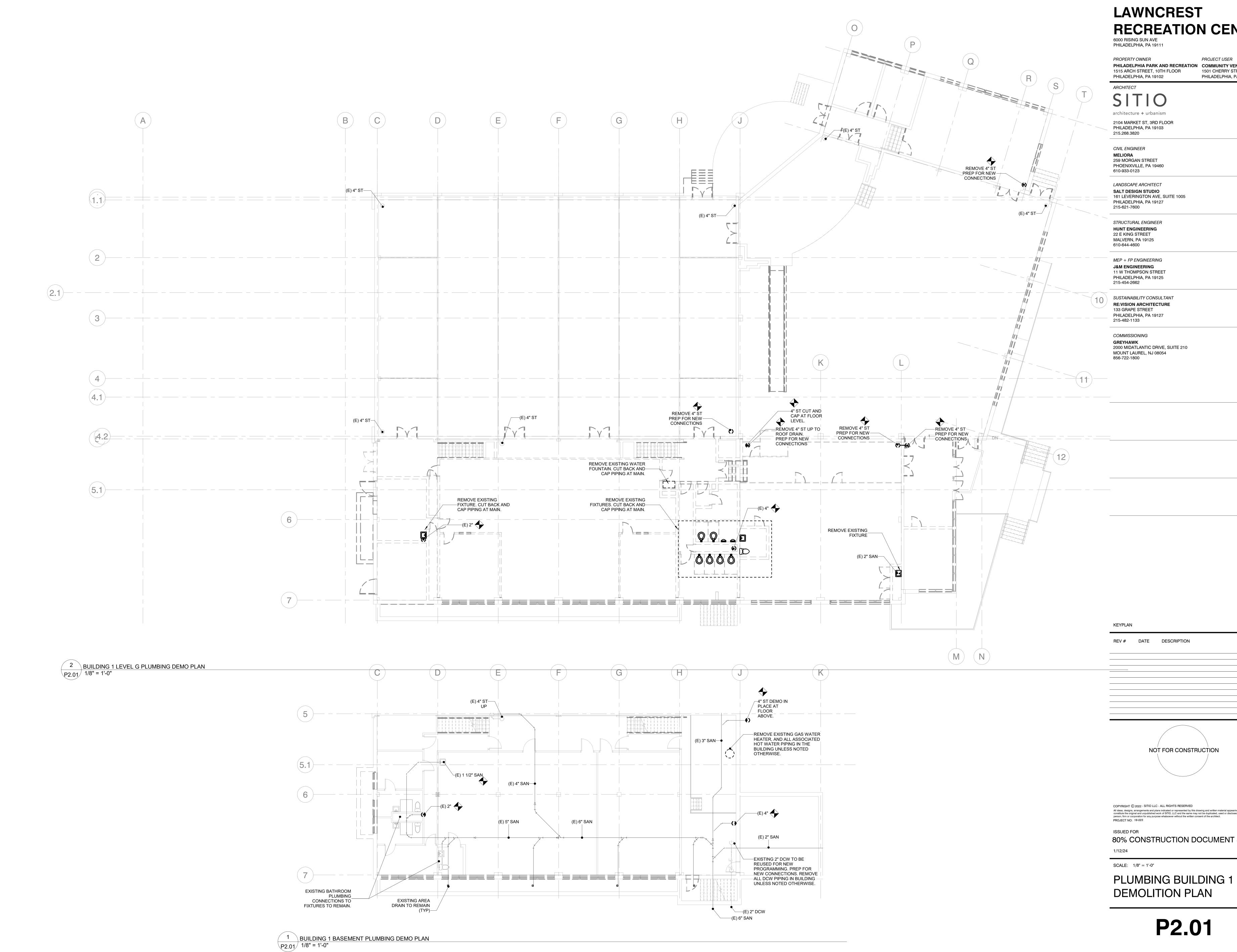
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PLUMBING COVER SHEET

P0.00

BUILDING 1 AND 2





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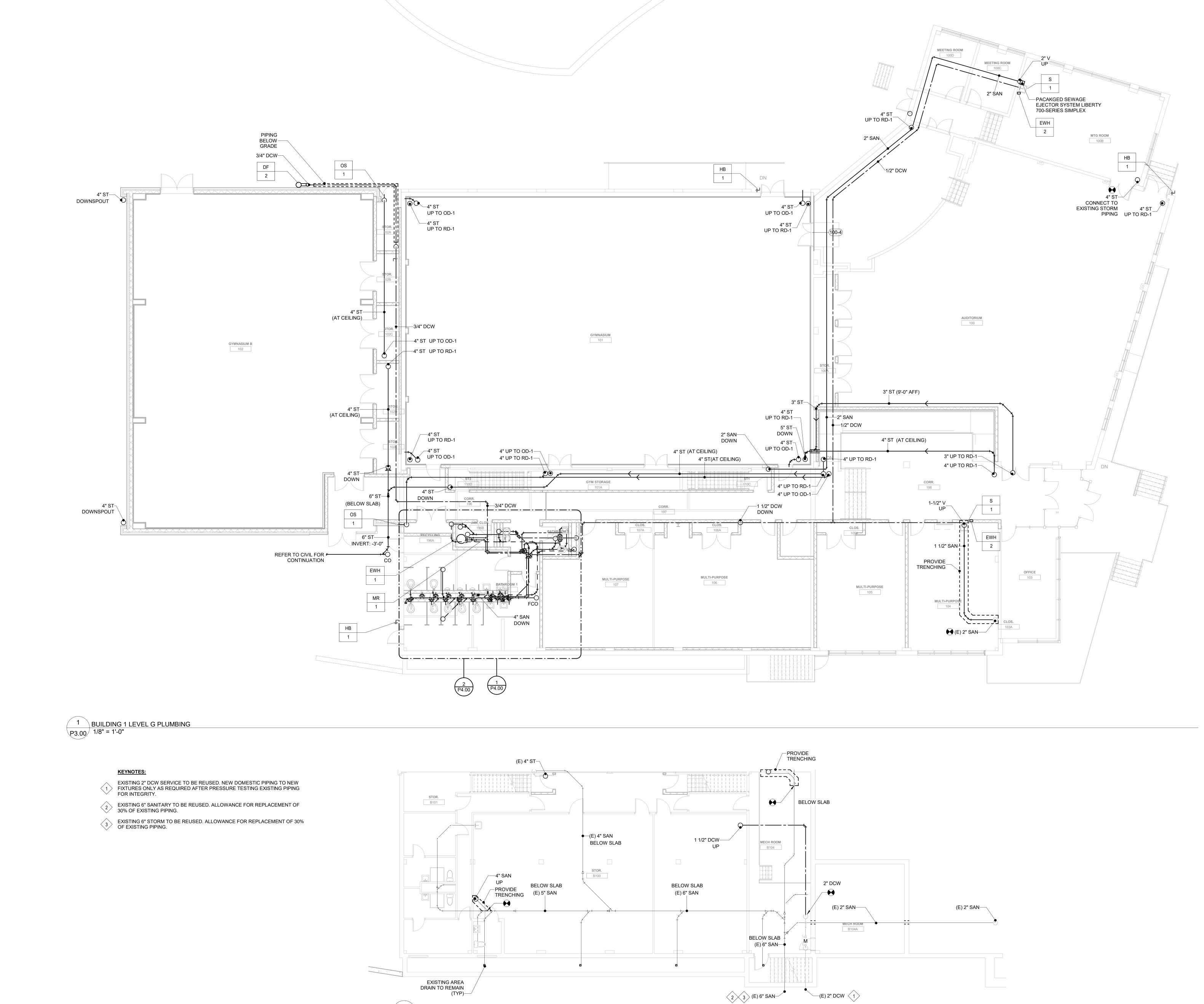
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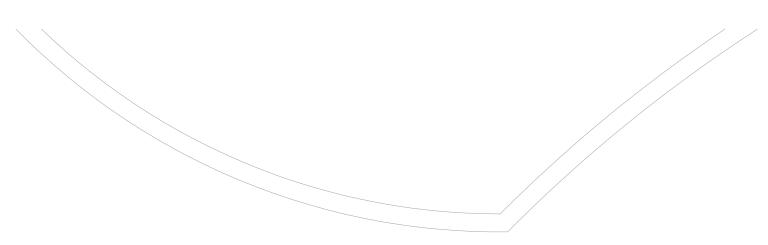
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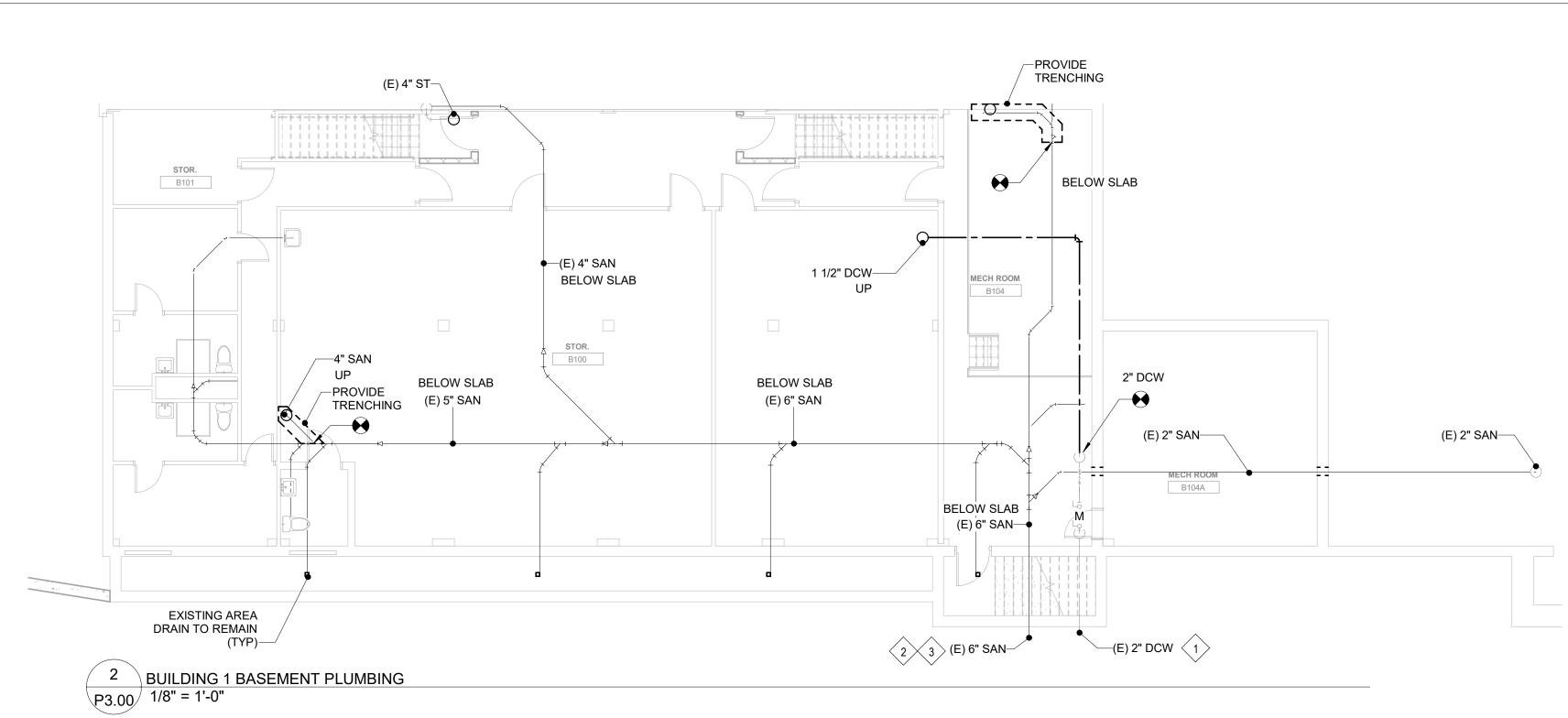
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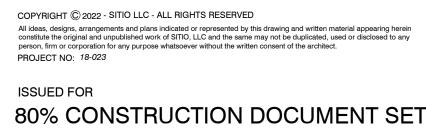
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P2.01









1/12/24 SCALE: As indicated BUILDING 1 BASEMENT /

GROUND FLOOR PLUMBING PLANS

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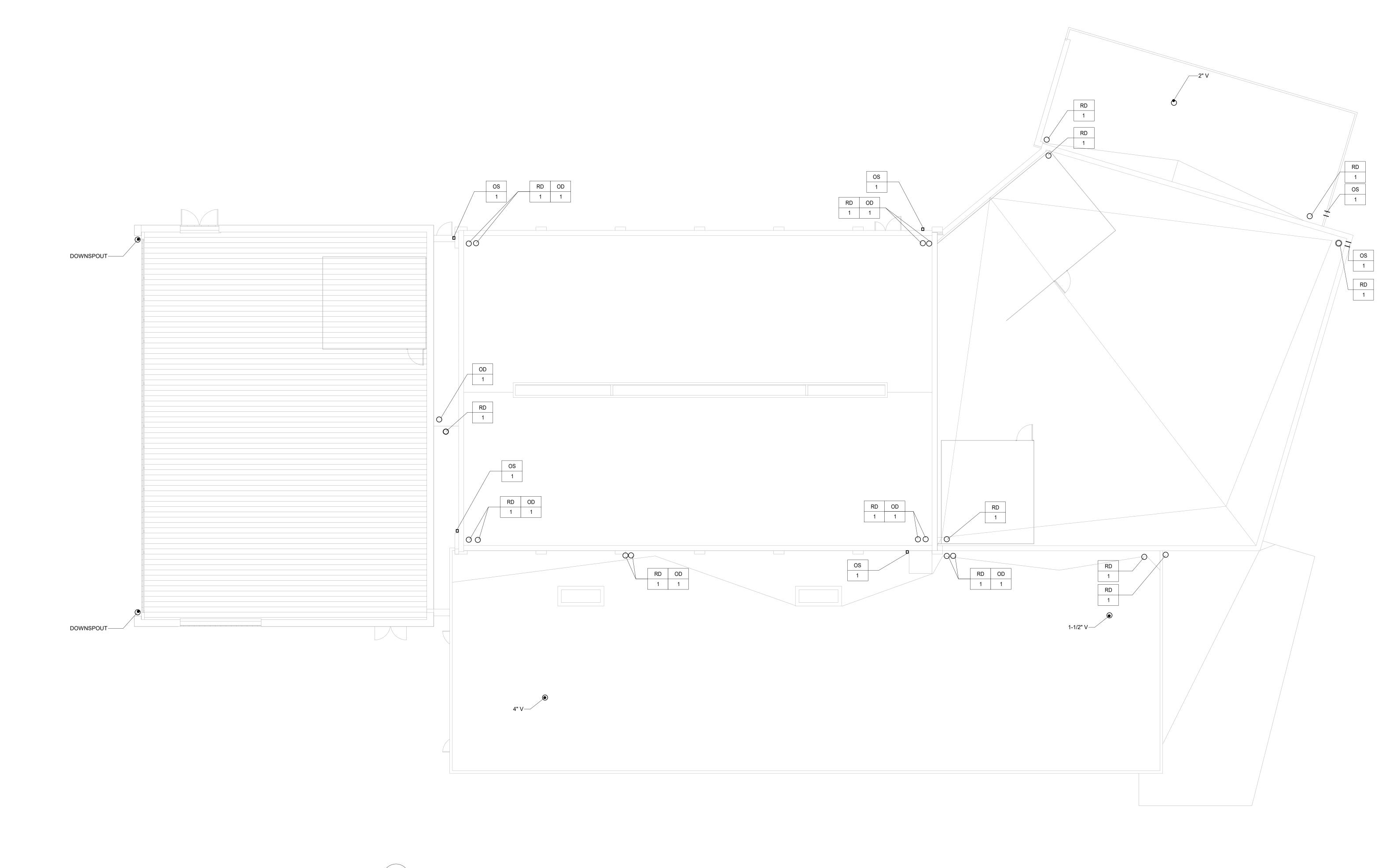
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P3.00





1 BUILDING 1 ROOF PLUMBING P3.01 1/8" = 1'-0"

ARCHITECT 215.268.3820

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

1/12/24

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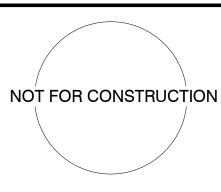
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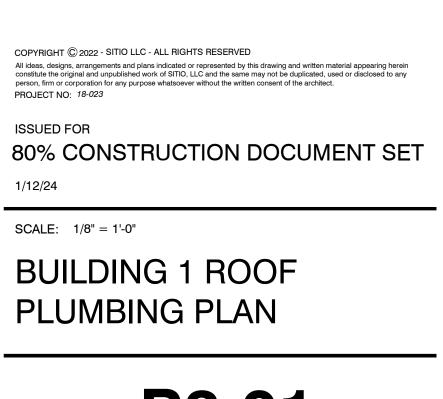
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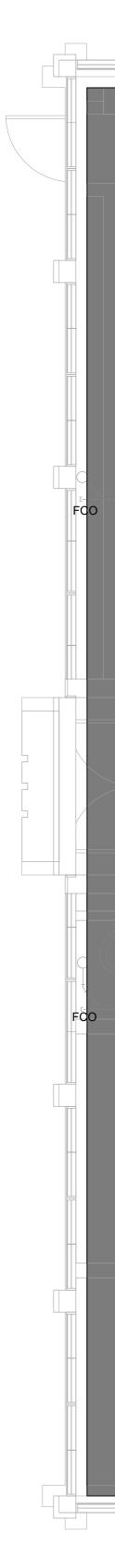
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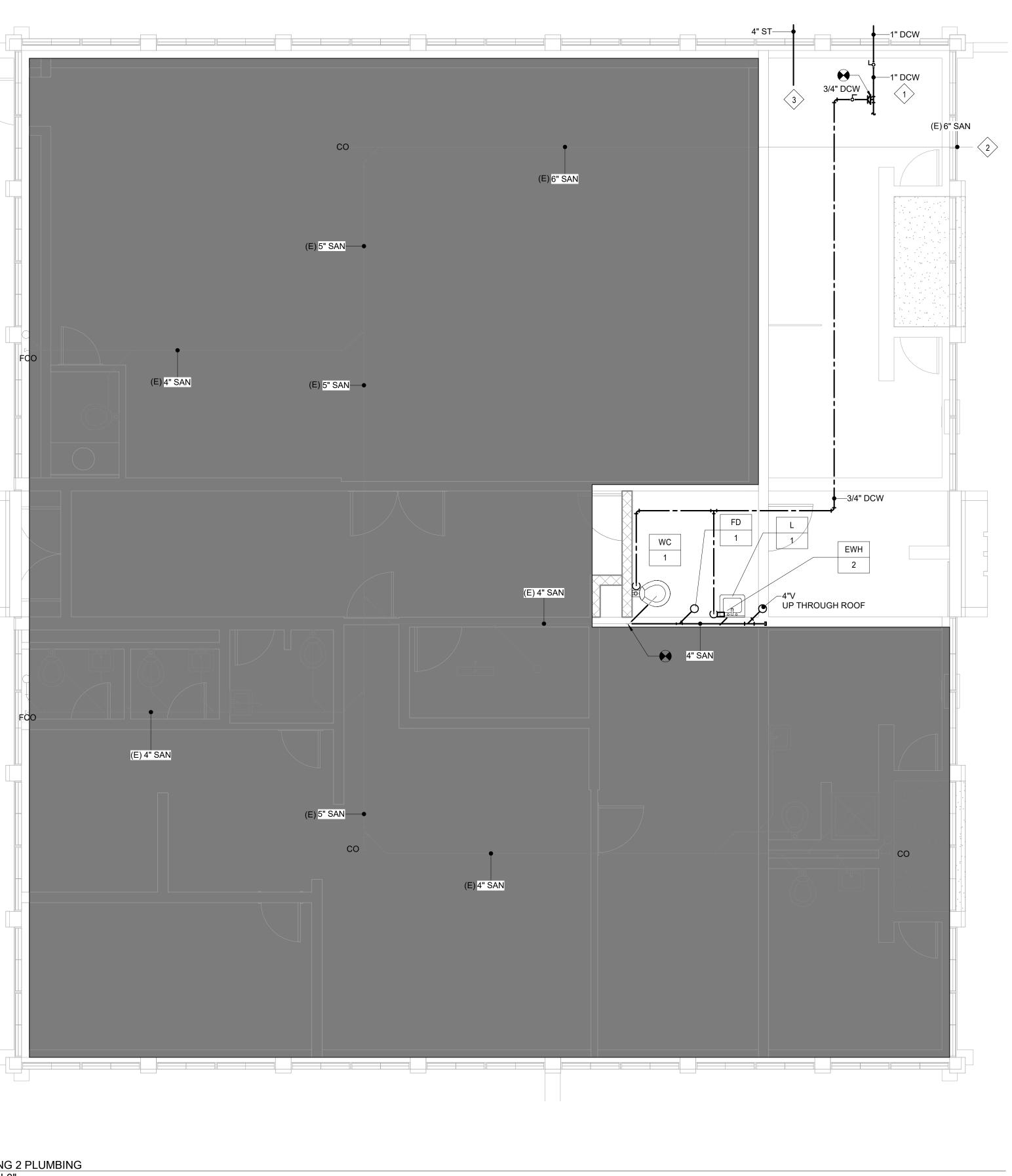




BUILDING 1 ROOF PLUMBING PLAN **P3.01**



1 BUILDING 2 PLUMBING P3.02 1/4" = 1'-0"



KEYNOTES: EXISTING 1" DCW SERVICE TO BE REUSED. NEW DOMESTIC PIPING TO NEW FIXTURES ONLY AS REQUIRED AFTER PRESSURE TESTING EXISTING PIPING FOR INTEGRITY.

2 EXISTING 6" SANITARY TO BE REUSED. ALLOWANCE FOR REPLACEMENT OF 30% OF EXISTING PIPING.

FLOOR PLANS



ARCHITECT

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REV # DATE DESCRIPTION

P3.02

KEYPLAN

3 EXISTING 4" STORM TO BE REUSED. ALLOWANCE FOR REPLACEMENT OF 30% OF EXISTING PIPING.

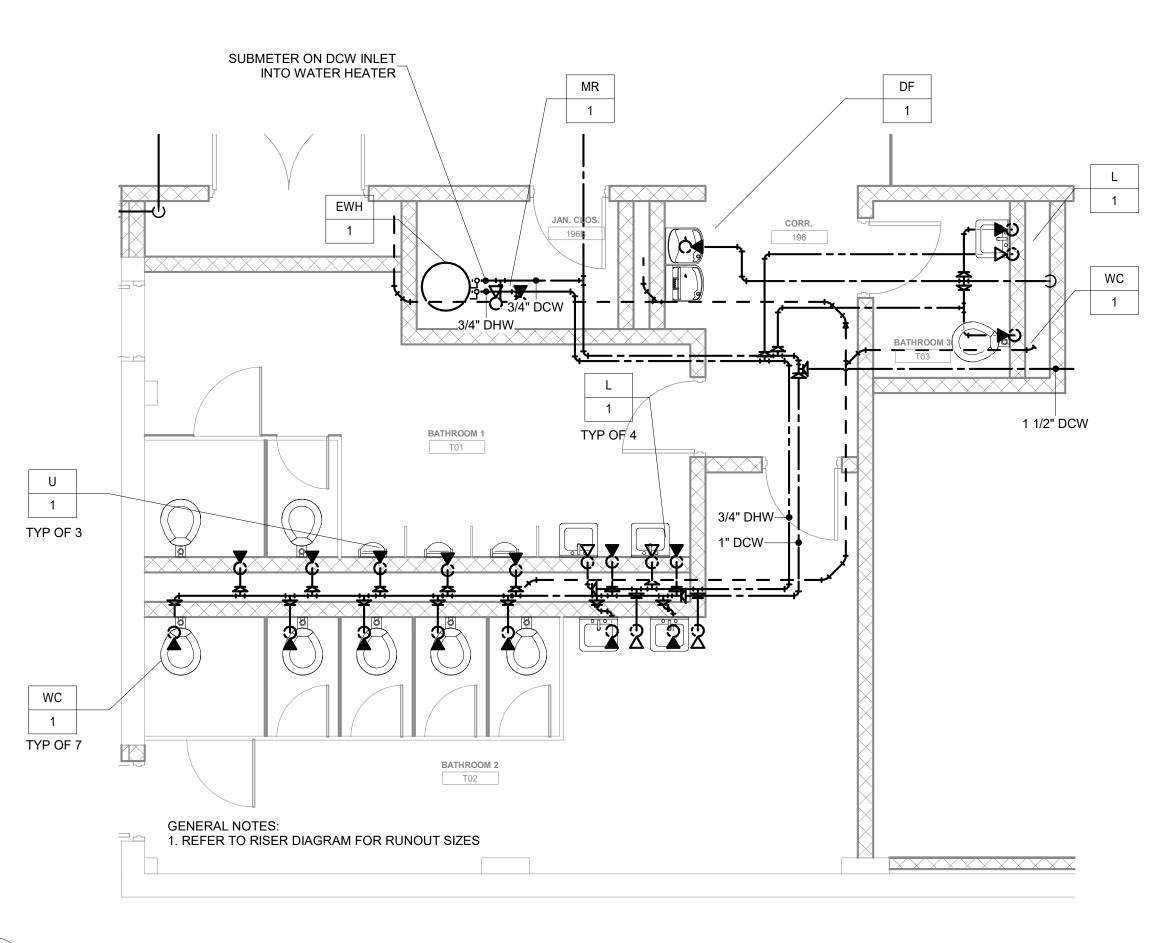
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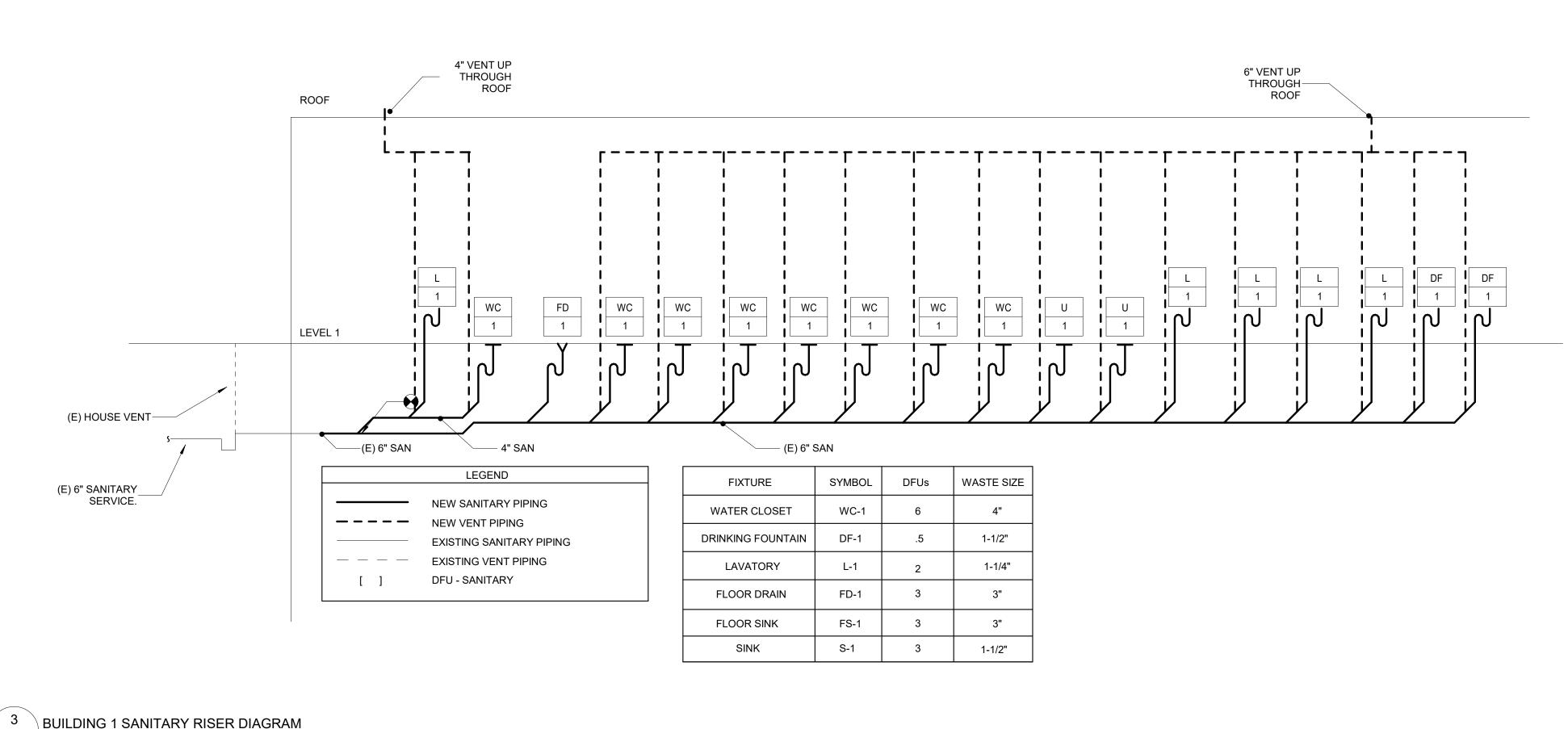
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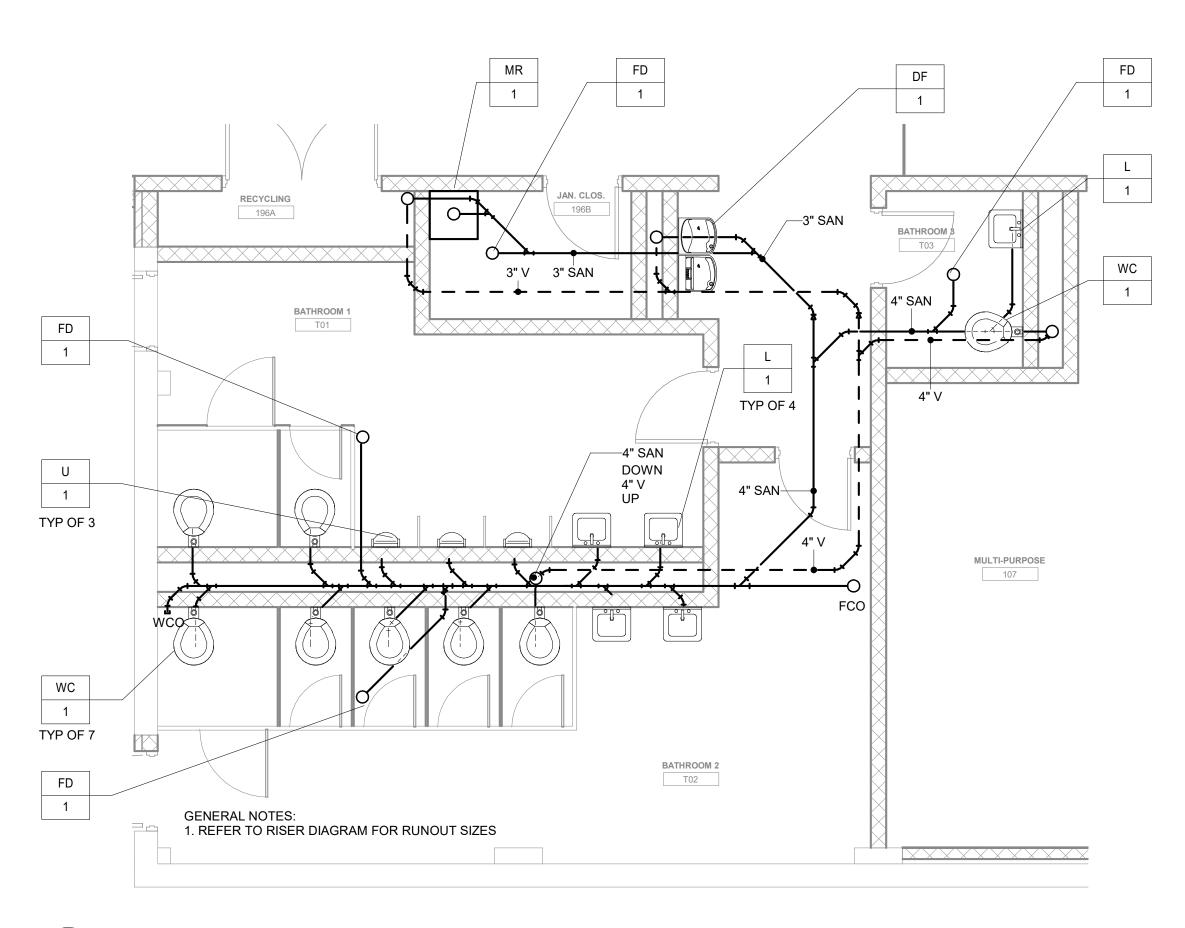
1 BUILDING 1 LEVEL G ENLARGED DOM P4.00 1/4" = 1'-0"



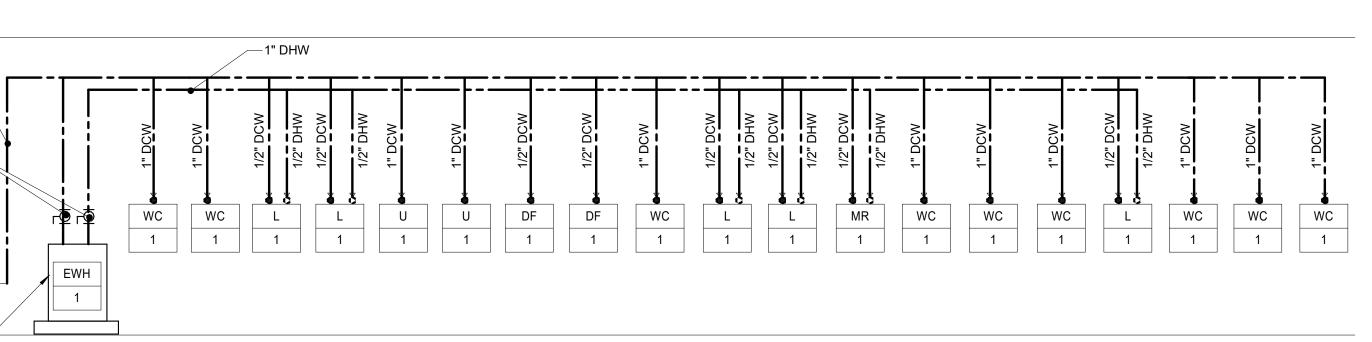
3 BUILDING 1 SANITARY RISER DIAGRAM P4.00 12" = 1'-0" ROOF 1-1/2" DCW MAIN $_{
m a}$ 1" DHW/DCW SHUTOFF— $\bigcirc -$ (E) 2" BACK FLOW PREVENTER, SHUT OFF VALVES, AND METER-GYM FLOOR

> ELECTRIC WATER HEATER LOWBOY TYPE-

4 BUILDING 1 DOMESTIC RISER DIAGRAM P4.00 12" = 1'-0"



2 BUILDING 1 LEVEL G PLUMBING ENLARGED SAN P4.00 1/4" = 1'-0"



| | FIXTURE | SYMBOL | RUNOUT SIZE | WSFU | | |
|------------------------|-------------------|--------|----------------|-------|------|----------|
| LEGEND | | | | TOTAL | COLD | НОТ |
| | WATER CLOSET | WC-1 | 1/2" | 5 | 5 | - |
| | LAVATORY | L-1 | 1/2" | 2 | 1.5 | 1.5 |
| NEW DOMESTIC HOT WATER | MOP RECEPTOR | MR-1 | 1/2" | 4 | 3 | 3 |
| | DRINKING FOUNTAIN | DF-1 | 1/2" | 0.25 | 0.25 | - |
| | URINAL | U-1 | 1/2" | 4 | 4 | - |
| | | | | | | <u> </u> |



ARCHITECT

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P4.00

