| LEGEND/ABBREVIATIONS | PROJECT | | | | INDEX | | |
|---|---|--|--|--|---|---|---|
| SYMBOL ABBREV. DEFINITION SYMBOL ABBREV. DEFINITION SYMBOL ABBREV. DEFINITION SYMBOL ABBREV. DEFINITION D. SA SUPPLY ARE DUCT UP, DOWN P. DA. DUCTES P. DA. SUPPLY ARE DUCT UP, DOWN D. SA SUPPLY ARE DUCT UP, DOWN P. DA. SUPPLY ARE DUCT UP, DOWN D. SO OUTSIGE ARE DUCT UP, DOWN D. SO OUTSIGE ARE DUCT UP, DOWN P. SO DOWN COVERED ABBREV. DEFINITION D. SO OUTSIGE ARE DUCT UP, DOWN D. SO DOWN COVERED P. DOWN COVERED ABBREV. DEFINITION P. DA. SUPPLY ARE DUCT UP, DOWN D. SO DOWN COVERED P. DOWN COVERED ABBREV. DEFINITION D. DOWN COVERED ABBREV. DEFINITION D. DOWN COVERED ABBREV. DEFINITION D. DOWN COVERED ABBREV. DEFINITION P. JULY PRESSURE STEAM P. JULY P | | GENERA UPG 2720 PLYE SILVER SPR | ELEMENTARY ATOR AND ELE RADE ERS MILL RD, ING, MD 20902 | | CS COVER SHEET FLECTRICAL E001 - ELECTRICAL LEGEND, CONVENTIONS, AND ABBREVIATIONS ED100 - BASEMENT PLAN - DEMOLITION E1010 - BASEMENT PLAN - AREA A E102 - PARTIAL FLOOR PLAN - AREA B E103 - PARTIAL FLOOR PLAN - AREA C E104 - PARTIAL FLOOR PLAN - AREA D E601 - PANTIAL SCHEDULES AND PICTURES MECHANICAL/PLUMBING MP001 - MECH/PLUMB LEGEND, CONVENTIONS, RISER, AND ABBREVIATION MP100 - BASEMENT PLAN - DEMOLITION MP101 - PARTIAL ROOF PLAN - AREA A - DEMOLITION MP100 - BASEMENT PLAN MP101 - PARTIAL ROOF PLAN - AREA A MP102 - PARTIAL ROOF PLAN - AREA A MP102 - PARTIAL ROOF PLAN - AREA A MP701 - MECHANICAL/PLUMBING ADD ALTERNATE #1 DETAILS THE SCOPE OF WORK INCLUDING REPLACING THE EXISTING GENERATO NON-LIFE SAFETY PANELS/TRANSFORMERS, AND ADDING DESIRED CIT THE EXISTING GENERATOR IS TO REMAIN ACTIVE AND RUN EXISTING GENERATOR IS INSTALLED. | TORK THIS DRAWING AND THE DESIGN THESE DISCLOSED ARE PROPRIETARY TO DATE NO. DATE NO. DATE | D THY D THY DFESS LAWS AND, |
| THERMOMETER PRESSURE GAUGE W/NEDLE VALVE PRESSURE GAUGE W/NEDLE VALVE T(N) TEMPERATURE SENSOR (NIGHT SETBACK) T'STAT THERMOSTAT FAN SWITCH FAN SWITCH FAN SWITCH FAN SWITCH DPJ DP DIFFERENTIAL PRESSURE GAUGE DPJ DP DIFFERENTIAL PRESSURE CONTROLLER DPJ DP DIFFERENTIAL PRESSURE CONTROLLER TFS FS FLOW SWITCH FS FS FLOW SWITCH PIS DIFFERENTIAL PRESSURE CONTROLLER FFM FEET PER MINUTE AFC AUTOMATIC FLOW CONTROL VALVE TFS FS FLOW SWITCH STATIC PRESSURE CONTROLLER PPM FEET PER MINUTE A AMPS V VOLTS HZ HERTZ DIFF DIFFUSER REG REGISTER AFF ABOVE FINISHED FLOOR W/W WITH PIPE ANCHOR PIPE ALIGNMENT GUIDE DIFFERENTIAL PRESSURE CONTROLLER PIPE ANCHOR PIPE AUGNMENT GUIDE TO FLAT OVAL SS STAINLESS STEEL HT. HEIGHT REG'D REQUIRED DWG DRAWING NO. NUMBER VAV VARIABLE AIR VOLUME FF EXHAUST FAN PIPE ALIGN PRESSURE CONTROLLER ARIC ARBORDANICS SOLENOID VALVE END CAP BLIND FLANGE NO. NORMALLY CLOSED | MONTGO | 850 HUNGE ROCKVIL MECHANICAL/ELECTRIC ALBAN ENG 303 INTER S HUNT VALLE | NTY PUBLIC SCHO RFORD DRIVE, LE, MD 20850 CAL/PLUMBING ENGINEERS INEERING, INC RNATIONAL CIRCLE SUITE 450 Y, MARYLAND 21030 10) 842-6411 | OLS | | PROFESSIONAL CERTIFIED POCUMENTS WERE PRE | NGINEERING, INC 303 INTERNATIONAL CIRCLE, SUITE 450 HUNT VALLEY, MD 21030 ering.com 410.842.6411 EXPIRATION DATE: |
| NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED | | | | NITC | VEV DI ANI | NITC | |
| | LOCATION MAP Noting only this was a second of the form Decompton | Calverton Ammerosia Bels ville Bels ville Bels ville Ricerdale Pair Rice | VICINITY MAP | NTS Programmer III and the second of the se | KEY PLAN | PN# PROJECT MANAGER DESIGNER | SILVER SPRING, MD 20902 |

- 1. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS OF ALL OTHER TRADES ON THE PROJECT. ELECTRICAL OR SYSTEMS CONNECTIONS INDICATED ON ARCHITECTURAL, MECHANICAL CIVIL, STRUCTURAL, KITCHEN AND ALL OTHER DRAWINGS WHICH ARE PART OF THIS PROJECT, SHALL BI CONSIDERED A PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- 2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES AND EQUIPMENT AND DIMENSIONAL INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF SERVICE EQUIPMENT AND WIRING.
- 3. COORDINATE MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS AND CASEWORK DRAWINGS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT ROUTING OF WIRING AND CONDUITS AND SHALL BE RESPONSIBLE FOR SIZING ALL BRANCH CIRCUIT WIRING TO LIMIT VOLTAGE DROP TO 3%. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE WIRING PER NEC. 20 AMPERE CIRCUITS SHALL BE SIZED AS FOLLOWS:

| | 20 | AMPERE CIRCUI | TS | |
|---------------|--------------|-------------------|-------------|----------------|
| 120 VOL | .Т | 277 VOL | Т | MINIMUM |
| WIRING LENGTH | WIRE SIZE | WIRING LENGTH | WIRE SIZE | CONDUIT SIZE |
| 0' - 101' | #12 | 0' - 130' | #12 | 3/4" |
| 101' - 200' | #10 | 130' - 210' | #10 | 3/4" |
| 201' - 250' | #8 | 210' - 340' | #8 | 3/4" |
| 251' - 300' | #6 | 340' - 540' | #6 | 3/4" |
| OVER 300' | #4 | OVER 540' | #4 | 1" |
| NOTES: | DANIEI DOADD | S WITH 200% RATED | NEUTDAL DUC | AND ALL DIMMED |

BRANCH CIRCUITS IN PANELBOARDS WITH 200% RATED NEUTRAL BUS AND ALL DIMMED LIGHTING CIRCUITS & ECM MOTORS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS.

5. ELECTRICAL BOXES IN FIRE RATED PARTITIONS SHALL NOT EXCEED 16 SQUARE INCHES IN AREA (IF 4"x4"), SHALL BE MADE OF STEEL, AND SHALL BE SUCH THAT THE CUMULATIVE AREA OF BOX "CUTOUTS" IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL SHALL BE SEPARATED BY A HORIZONTAL AND VERTICAL DISTANCE OF NOT LESS THAN 24 INCHES. THE ELECTRICAL CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENSIONED ON THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.

WIRING AND CONDUIT SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM ONLY. CONTRACTOR SHALL BE RESPONSIBLE

FOR DETERMINING EXACT WIRING AND CONDUIT SIZES. CONTRACTOR SHALL PROVIDE SPLICE BLOCKS AND REDUCING

6. NEW WALLS ARE SHADED ON THE FLOOR PLANS, EXISTING WALLS ARE NOT SHADED. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING MOUNTING OF DEVICES WITH WALL TYPE.

DEMOLITION NOTES:

- 1. DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE: NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING ELECTRICAL WORK IN AREAS INDICATED TO BE RENOVATED. ALL EXISTING ELECTRICAL WORK IS TO REMOVED UNLESS OTHERWISE NOTED. WHEN AN ITEM TO BE REMOVED, REMOVE ALL ASSOCIATED ELECTRICAL WORK BACK TO POINT-OF-SOURCE.
- 2. WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF THE BUILDING, OR WORK IN THE RENOVATION AREA INDICATED TO BE REMAIN, IT SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTORED TO NORMAL COORDINATE ANY OUTAGES WITH OWNER 7 DAYS IN ADVANCE.
- 3. WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.

PINS AS REQUIRED TO TERMINATE WIRING AND MAKE FINAL CONNECTIONS.

- 4. TURN OVER ALL CIRCUIT BREAKERS, LIGHTING AND APPLIANCE PANELBOARD COVERS, CONTACTORS, MOTOR STARTERS, TIME CLOCKS, BATTERY PACKS, CLOCKS, SPEAKERS, ETC THAT ARE IN GOOD CONDITION TO OWNER. CONTACT OWNER FOR VERIFICATION IF ITEMS ARE IN QUESTIONABLE CONDITION.
- 5. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE OWNER TO MINIMIZE DISRUPTION OF THE NORMAL DAILY FUNCTIONING OF THE OWNERS OCCUPIED AREAS.
- 6. REMOVE AND REINSTALL ALL EXISTING CEILING MOUNTED DEVICES INDICATED TO REMAIN AS REQUIRED TO SUIT NEW CEILING
- 7. ALL REMOVED DEVICE WALL PENETRATIONS SHALL BE PATCHED AND PAINTED TO MATCH EXISTING WALL COLOR OR WALL COLOR PER ARCHITECT'S DIRECTION.

ELECTRICAL LEGEND: (MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE UON)

CONDUIT

HOMERUN TO PANELBOARD; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES

BRANCH CIRCUIT CONDUIT AND WIRING CONCEALED IN CEILING OR WALL SPACE, OR SURFACE MOUNTED WHERE NO CEILING OR WALL SPACE EXISTS; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES

BRANCH CIRCUIT CONDUIT AND WIRING IN SLAB, UNDER FLOOR OR UNDERGROUND; REFER TO PANEL SCHEDULES FOR MINIMUM WIRE AND CONDUIT SIZES

DISTRIBUTION PANELBOARD, SURFACE MOUNTED AT 6'-6" AFF TO TOP OF PANEL

PANELBOARD; RECESSED, SURFACE MOUNTED; MOUNT AT 6'-6" AFF TO TOP OF PANEL.

PANELBOARD; RECESSED, SURFACE MOUNTED; MOUNT AT 5-6" AFF TO TOP OF PANEL.

PANELBOARD; RECESSED, SURFACE MOUNTED; MOUNT AT 5-6"

AFF TO TOP OF PANEL. SINGLE POLE MANUAL MOTOR STARTING SWITCH WITH HOA SWITCH;

MOUNT AT 48" AFF IN NEMA 1 ENCLOSURE UON MOTOR; AS NOTED

UNIT HEATER

SAFETY DISCONNECT SWITCH; FUSED, NONFUSED IN NEMA 1 ENCLOSURE UON; MOUNT AT 48" AFF UON; RATING AND FUSING AS NOTED

ENCLOSED CIRCUIT BREAKER IN NEMA 1 ENCLOSURE UON; MOUNT AT 5'-6" TO TOP AFF UON: SIZE AS NOTED

COMBINATION TYPE MOTOR STARTER; FVNR WITH CONTROL XFMR, RED AND GREEN INDICATING LIGHTS, HOA SELECTOR SWITCH AND CIRCUIT BREAKER DISCONNECT SWITCH IN NEMA 1 ENCLOSURE UON; MOUNT AT 5'-6" TO TOP AFF UON

JUNCTION BOX; CEILING, WALL MOUNTED

TO GROUND

EPO PUSHBUTTON, UON; MOUNT 48" AFF AS INDICATED

ELECTRICAL METER

SURGE PROTECTION DEVICE

VARIABLE FREQUENCY DRIVE FURNISHED UNDER DIVISION 15, INSTALLED UNDER DIVISION 16

TRANSFORMER

36"

MISCELLANEOUS

IN FUTURE PHASES

REFERENCE TO DRAWING NOTE #/E#.# DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER

ITEMS SHOWN DASHED/HEAVY ARE TO BE REMOVED ITEMS SHOWN SOLID/LIGHT ARE EXISTING TO REMAIN ITEMS SHOWN DASHED-DOTTED/LIGHT ARE TO OCCUR

ABBREVIATIONS:

A AMPERE, AMPERES AFF ABOVE FINISHED FLOOR AHU AIR HANDLING UNIT AIC AMPERE INTERRUPTING CAPACITY ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE CATV CABLE TELEVISION CCTV CLOSED CIRCUIT TELEVISION CONDUIT CB CIRCUIT BREAKER

DWG DRAWING ECB ENCLOSED CIRCUIT BREAKER EXHAUST FAN EPO EMERGENCY POWER OFF ETR EXISTING TO REMAIN EWC ELECTRIC WATER COOLER EXISTING

FAAP FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL FLA FULL LOAD AMPERES FSS FUSED SAFETY SWITCH GROUND GROUND FAULT EQUIPMENT PROTECTION

GROUND FAULT INTERRUPTING HOA HAND-OFF-AUTOMATIC HORSEPOWER HWH HOT WATER HEATER GENERATOR INTERMEDIATE DISTRIBUTION FRAME INTERMEDIATE METAL CONDUIT

KCMIL THOUSAND CIRCULAR MILS KILOVOLT-AMPERES KW KILOWATT LOCKED ROTOR AMPERES MINIMUM CIRCUIT AMPERES MAIN CIRCUIT BREAKER MAIN DISTRIBUTION FRAME MAIN LUGS ONLY

MAIN POINT OF PRESENCE MAIN SWITCHBOARD MOUNTED MOUNTING HEIGHT/MANHOLE NATIONAL ELECTRÍCAL CODE NATIONAL ELECTRICAL

MANUFACTURER'S ASSOCIATION NONFUSED SAFETY SWITCH NUMBER OC ON CENTERS POLE, POLES ø PHASE PNL PANEL POLYVINYL CHLORIDE

> RIGID GALVANIZED STEEL REMOVE EXISTING TRANSIENT VOLTAGE SURGE SUPPRESSOR UNIT HEATER VOLT, VOLTS

VR VANDALL RESISTANT WP WEATHERPROOF WATTS, WIRE, WIRES TRANSFORMER TELEPHONE TERMINAL BOARD UTP UNSHIELDED TWISTED PAIR

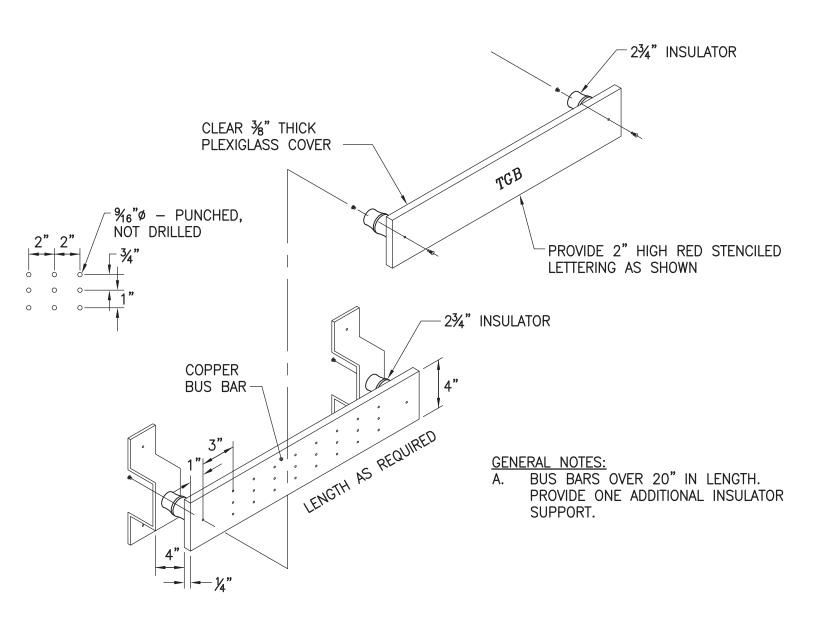
UON UNLESS OTHERWISE NOTED

RETURN AIR FAN

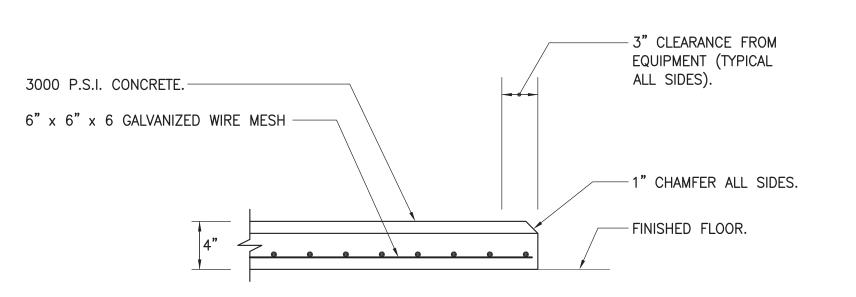
6" CLEAR 6" CLEAR H MIN. 6" CLEAR (BOTH SIDES) DRY TYPE 1/2" DIAMETER TRANSFORMER COLD ROLLED STEEL 4"x2" STEEL CHANNEL COMPRESSION **VIBRATION** ISOLATOR-

MINIMUM

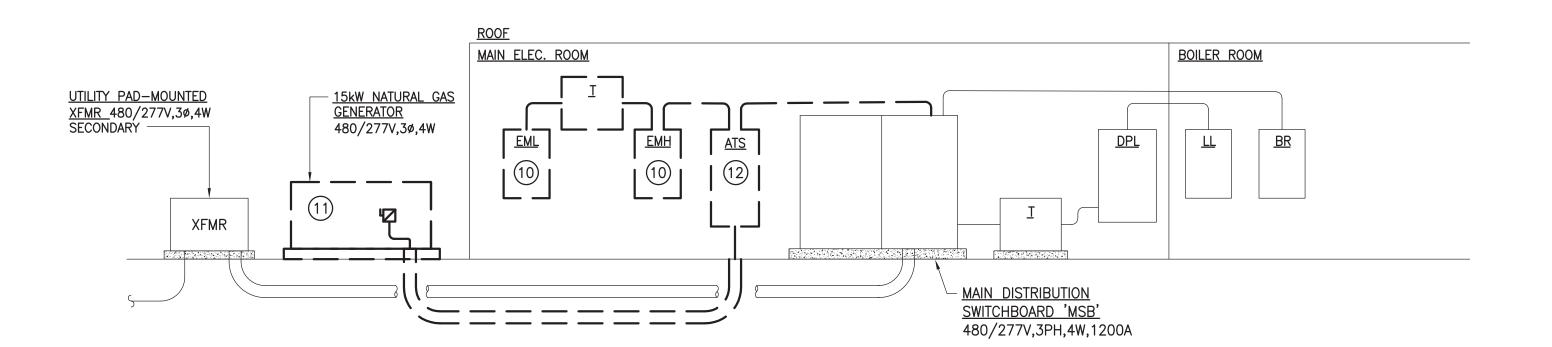
<u>DETAIL — SUSPENDED MOUNTING OF DRY TYPE</u> <u>TRANSFORMER</u>



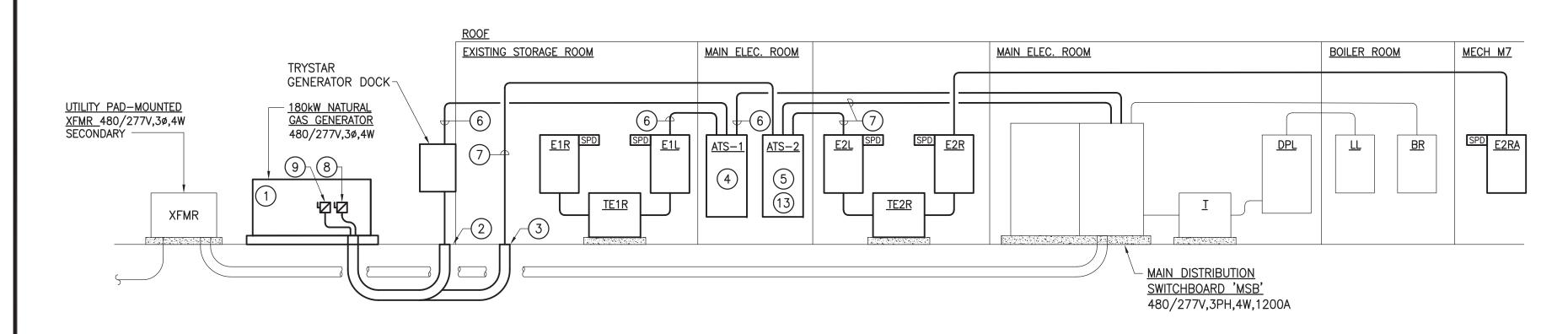
DETAIL-GROUNDING BUS BAR



CONCRETE HOUSEKEEPING PAD



PARTIAL SCHEMATIC POWER RISER DIAGRAM - DEMOLITION



<u>PARTIAL SCHEMATIC POWER RISER DIAGRAM - NEW WORK</u>

GENERAL NOTES:

- 1. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION. 2. PROVIDE TRANSFORMER PRIMARY DISCONNECTS, WHERE INDICATED, SIZED TO MATCH (OR EXCEED) THE RATING OF
- THE PRIMARY CB INDICATED ON THE DRY TYPE TRANSFORMER SCHEDULE. 3. CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED)

WITHIN 5'-0 OF EQUIPMENT TO ACCOMMODATE LUG SIZÉS.

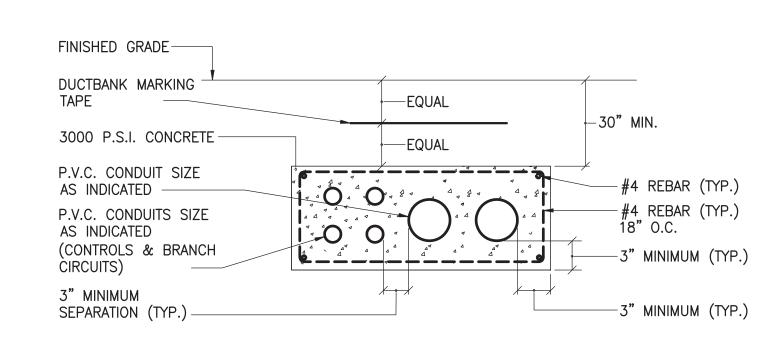
- 4. PROVIDE PLACARD POSTING THE AVAILABLE FAULT CURRENT AT THE MAIN SERVICE.
- 30" x 42" ON MYLAR AND COORDINATE LOCATION WITH OWNER IN MAIN ELECTRICAL ROOM. 6. ALL PANELBOARDS WITH 84-POLES OR LESS SHALL BE IN A

5. PROVIDE POWER RISER DIAGRAM, LAMINATED AND FRAMED

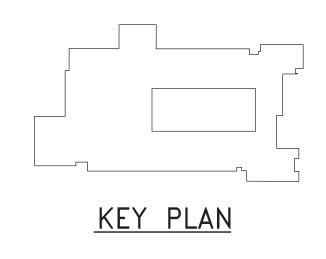
- SINGLE INTERIOR BACKBOX. 7. PROVIDE LABEL ON ALL TRANSFORMERS INDICATING WHERE IT IS SERVED FROM. LABEL SHALL COMPLY WITH NEC.
- 8. PANEL CIRCUIT BREAKER KNOCKOUTS SHALL NOT BE REMOVED UNLESS NEEDED FOR USED CIRCUITS.

RISER NOTES:

- MOUNT GENERATOR OUTPUT CIRCUIT BREAKERS WITHIN GENERATOR ENCLOSURE.
- (2) GENERATOR DUCTBANK #1
- (3) GENERATOR DUCTBANK #2. (4) 4P-100A, 42kA WITHSTAND RATING.
- (5) 4P-150A, 42kA WITHSTAND RATING.
- (6) (4) #3 + #8GW 1-1/2°C. (7) (4) #1/0 + #6GW - 1-1/2°C
- 8 3P-100A ELECTRONIC TRIP LSI-TYPE CIRCUIT BREAKER (LIFE SAFETY LOADS).
- 9 3P-150A ELECTRONIC TRIP LSI-TYPE CIRCUIT BREAKER (STANDBY LOADS).
- TEMPORARILY FEED ALL EXISTING LOADS ON THESE PANELS FROM CORRESPONDING **E2** PANELS AND REMOVE EQUIPMENT. ONCE NEW GENERATOR AND ELECTRICAL INFRASTRUCTURE IS FULLY INSTALLED AND ACTIVE, RELOCATE CIRCUITS AS INDICATED ON PANEL SCHEDULES.
- (11) REMOVE EQUIPMENT ONCE NEW EMERGENCY INFRASTRUCTURE IS FULLY INSTALLED AND ACTIVE
- (12) MAINTAIN FEEDER/ FOR TEMPORARY CONNECTION TO ATS-2. MODIFY/EXTEND FEEDER AS REQUIRED.
- (13) TEMPORARILY CONNECT MAINTAINED FEEDER TO ATS-2 TO SERVE EXISTING EMERGENCY LOADS UNTIL NEW EMERGENCY ELECTRICAL SYSTEM IS FULLY INSTALLED AND ACTIVE.



(DETAIL - GENERATOR DUCTBANK #1 & #2



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

06-09-2023

PROJECT MANAGER

DESIGNER

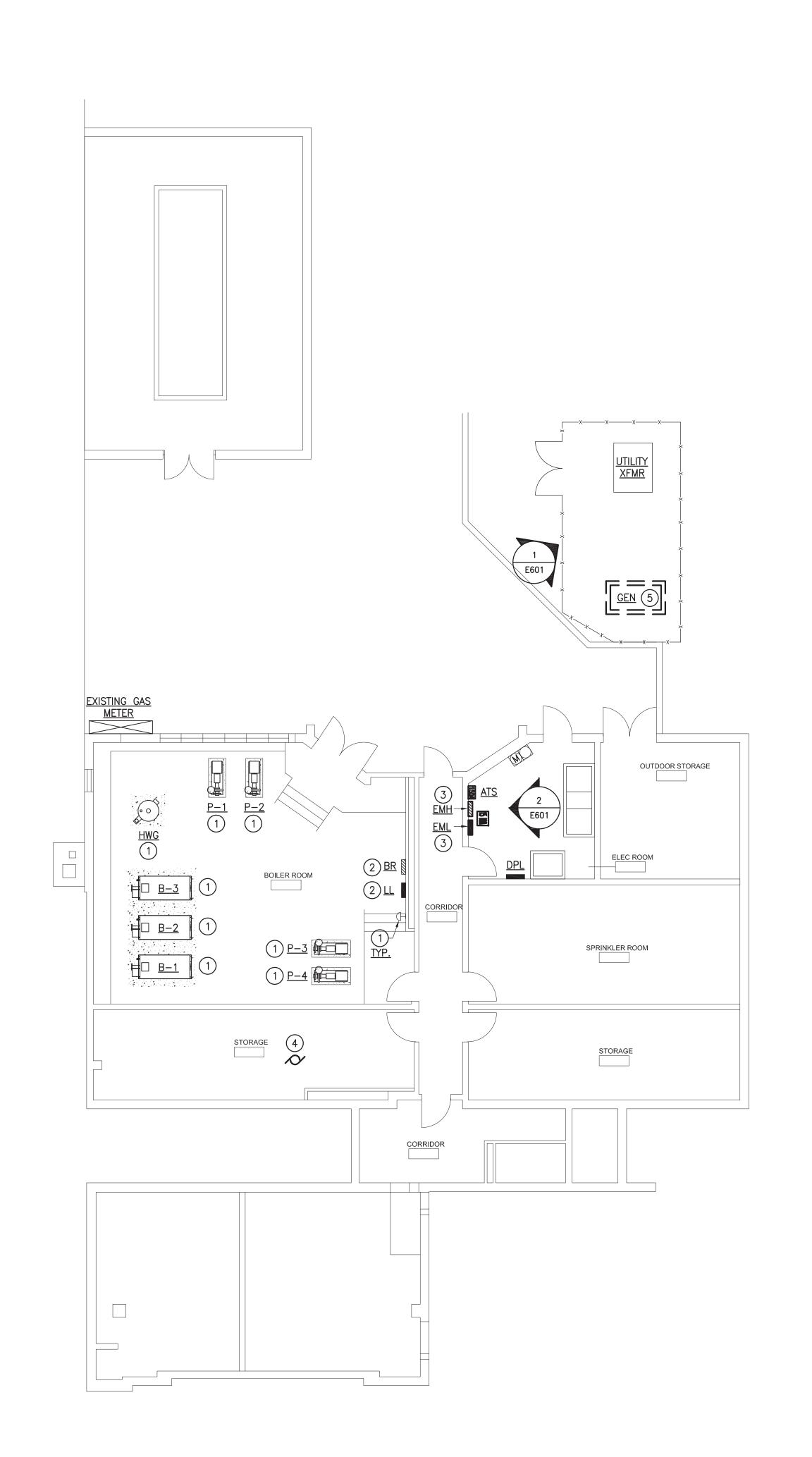
ONVENTION

EMERGENCY

ELECTRICAL LEGEND, AND ABBREVIATIONS OAKLAND TERRACE ES – EMERG SILVER SPRING, MD 20902

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BASEMENT PLAN — DEMOLITION

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

- **GENERAL NOTES:**
- 1. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED)
 WITHIN 5'-0 OF EQUIPMENT TO ACCOMMODATE LUG SIZES.
- 3. ALL PANELBOARDS WITH 84-POLES OR LESS SHALL BE IN A SINGLE INTERIOR BACKBOX.
- 4. VERIFY APPROPRIATE BREAKERS ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE ON EMERGENCY POWER ARE BEING RELOCATED TO EMERGENCY PANELS.
- **DRAWING NOTES:**
- RECIRCUIT DEVICE/EQUIPMENT AND ASSOCIATED ELECTRICAL APPURTENANCES TO INDICATED EMERGENCY PANEL. REFER TO PANEL SCHEDULES FOR MORE INFORMATION. MODIFY/EXTEND CIRCUIT AS REQUIRED.
- 2 PANEL WITH CIRCUITS TO BE RELOCATED TO EMERGENCY PANELS. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.
- RECIRCUIT ALL LIFE SAFETY BRANCH CIRCUITS (LIGHTING/FA) ON THIS PANEL TO NEW EMERGENCY E1 PANELS AND RECIRCUIT ALL NON-LIFE SAFETY BRANCH CIRCUITS ON THIS PANEL TO NEW EMERGENCY E2 PANELS. REFER TO PANEL SCHEDULES FOR MORE INFORMATION. MODIFY/EXTEND CIRCUIT AS REQUIRED.
- 4 UNDER ADD ALTERNATE #1, RX. FAN ON ROOF. MAINTAIN CIRCUIT FOR RECONNECTION OF NEW FAN. MODIFY/EXTEND CIRCUIT AS
- GENERATOR TO REMAIN ACTIVE AND RUNNING CURRENT EMERGENCY LOADS UNTIL NEW GENERATOR IS INSTALLED. ONCE NEW GENERATOR IS INSTALLED, RELOCATE REMAINING CIRCUITS TO NEW EMERGENCY PANELS AND REMOVE EXISTING GENERATOR, REMOVE EXISTING GAS IN ITS ENTIRETY TO GENERATOR, AND EXISTING EMERGENCY EQUIPMENT.

KEY PLAN

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

0 8 16

ED100

BID SET 06-09-2023

DESIGNER BSF

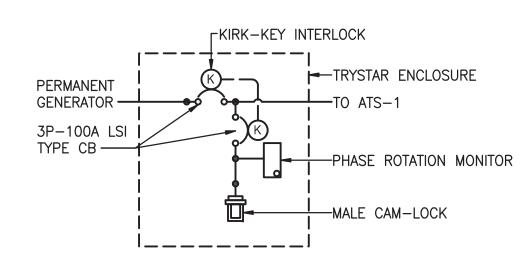
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DEMOLITION

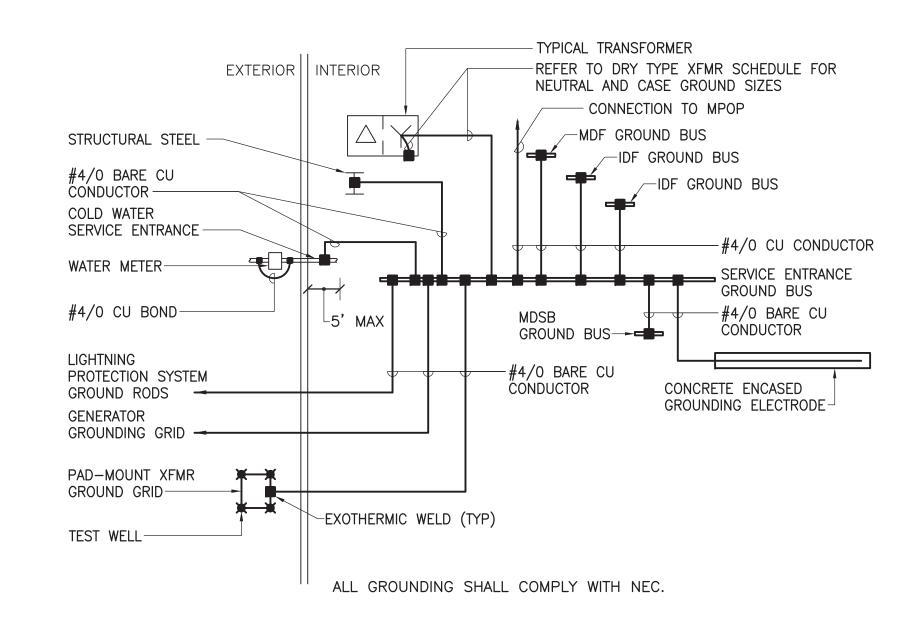
BASEMENT PLAN

PROJECT MANAGER EMERGENCY UPGRADE

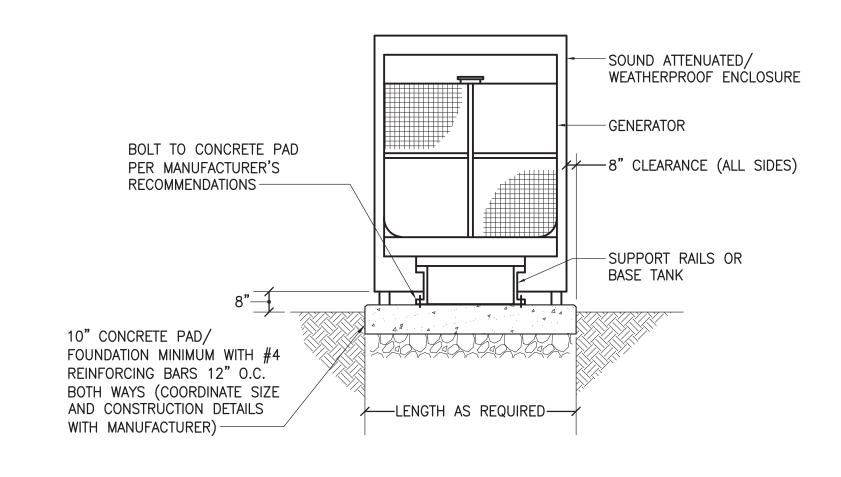
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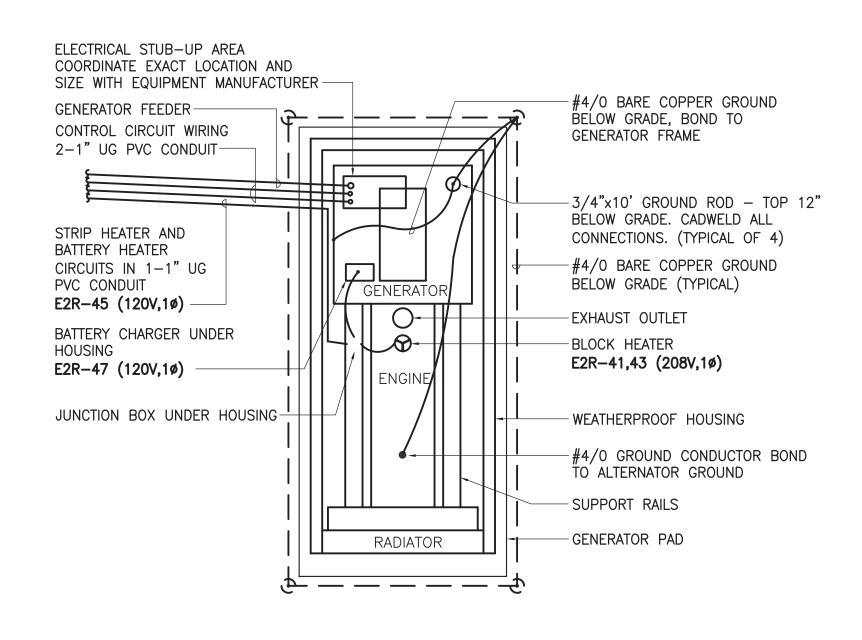


GENERATOR DOCKING STATION
SCALE: NONE

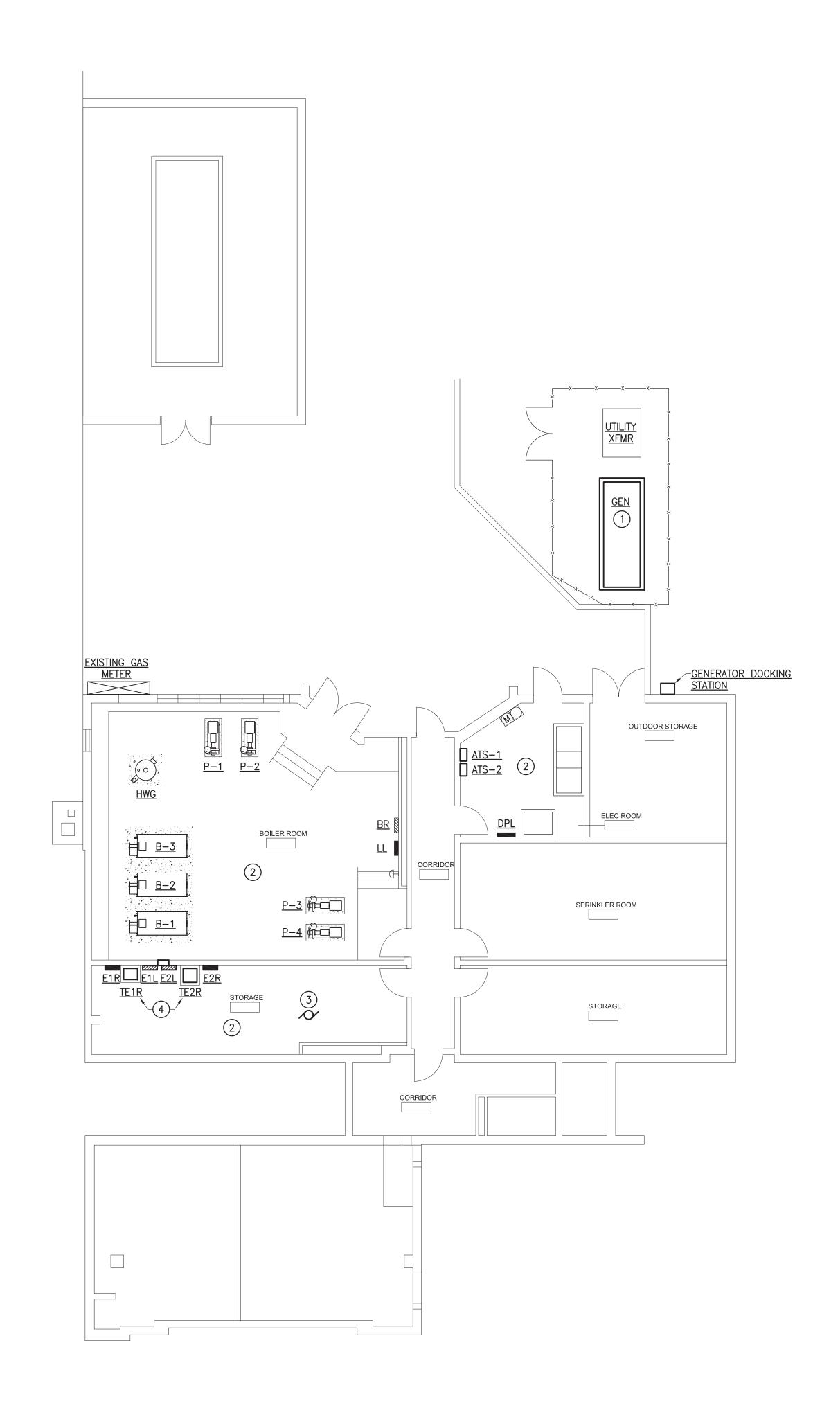


PARTIAL GROUNDING SINGLE LINE SCHEMATIC DIAGRAM SCALE: NONE





GENERATOR CONNECTION AND PAD DIAGRAMS
SCALE: NONE



BASEMENT PLAN

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

GENERAL NOTES:

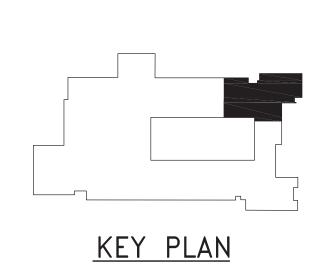
- REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- 2. CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED) WITHIN 5'-0 OF EQUIPMENT TO ACCOMMODATE LUG SIZES.
- 3. ALL PANELBOARDS WITH 84-POLES OR LESS SHALL BE IN A SINGLE INTERIOR BACKBOX.
- 4. VERIFY APPROPRIATE BREAKERS ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE ON EMERGENCY POWER ARE
- 5. ALL NEW EMERGENCY RECEPTACLES SHALL BE TAMPER-PROOF AND RED IN COLOR.

BEING RELOCATED TO EMERGENCY PANELS.

- 6. RECIRCUIT ALL RESTROOM LIGHTING FIXTURES AND CONTROLS TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND CIRCUIT AS REQUIRED
- 7. RECIRCUIT ALL FIRE ALARM BRANCH CIRCUITS ON NORMAL PANELS TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND CIRCUIT AS REQUIRED.

DRAWING NOTES:

- 1) NEW CONCRETE PAD TO BE POURED TO ACCOMODATE NEW GENERATOR.
- 2 RECIRCUIT ALL LIGHITNG FIXTURES AND CONTROLS IN THIS ROOM TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND CIRCUIT AS REQUIRED.
- 3 UNDER ADD ALTERNATE #1, NEW FAN ON ROOF. RECONNECT TO CIRCUIT MAINTAINED DURING DEMOLITION. MAKE ALL CONNECTIONS TO DISCONNECT PROVIDED WITH UNIT.
- TRANSFORMERS MAY BE STACKED IF SPACE REQUIREMENTS CANNOT BE MET WITH PROPOSED LOCATIONS. REFER TO DETAIL ON E001.



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

0 8 16

E100

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ENT PLAN

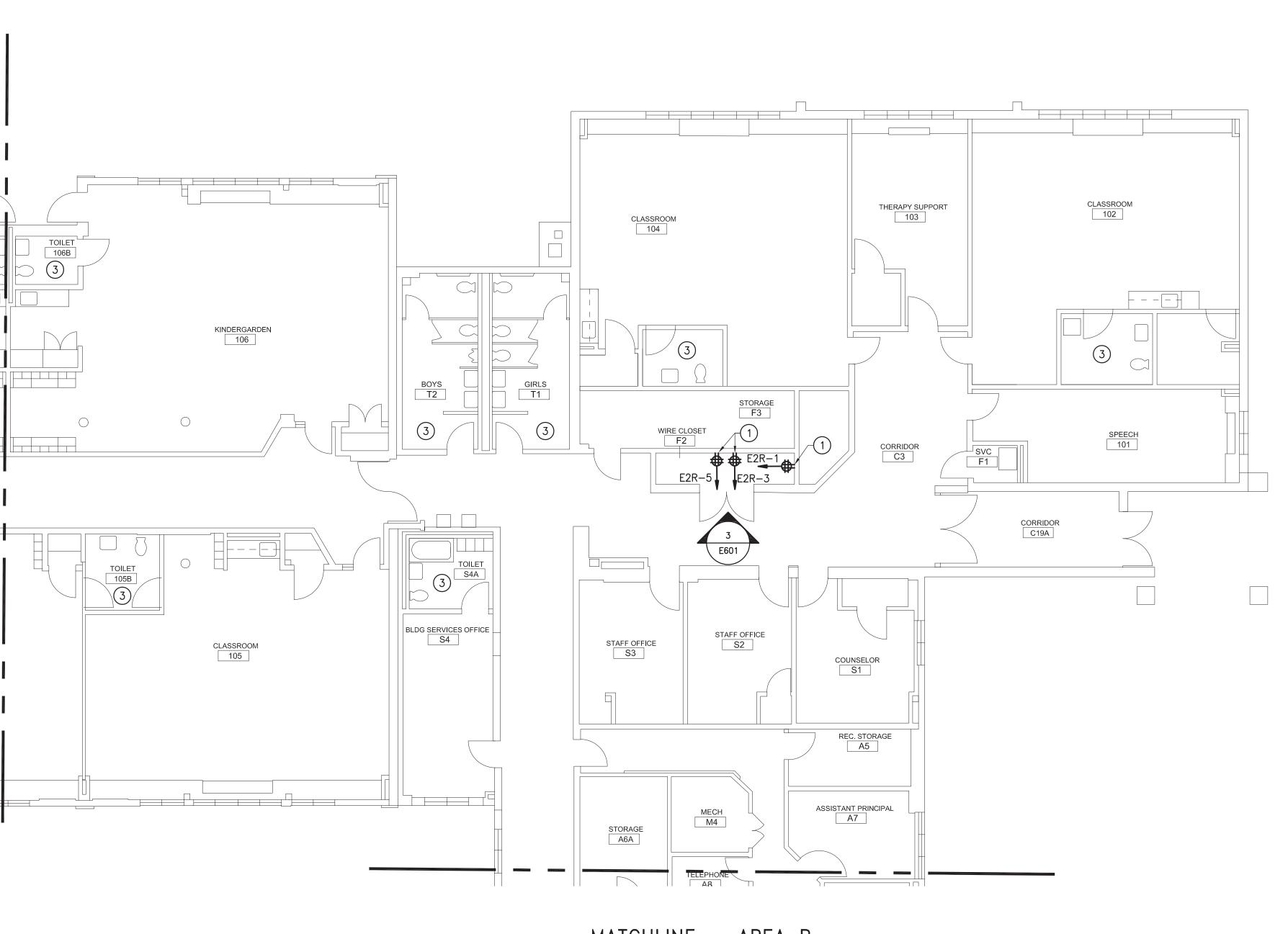
TERRACE ES – EMERGENCY
RING, MD 20902

DANEME SILVER SPRI

PN# 22079

PROJECT DRH

DESIGNER BSF



MATCHLINE - AREA B

PARTIAL FLOOR PLAN — AREA A

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

- 1. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- 2. CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED) WITHIN 5'-0 OF EQUIPMENT TO ACCOMMODATE LUG SIZES.
- 3. ALL PANELBOARDS WITH 84-POLES OR LESS SHALL BE IN A SINGLE INTERIOR BACKBOX.
- 4. VERIFY APPROPRIATE BREAKERS ASSOCIATED WITH MECHANICAL EQUIPMENT TO BE ON EMERGENCY POWER ARE BEING RELOCATED TO EMERGENCY PANELS.
- ALL NEW EMERGENCY RECEPTACLES SHALL BE TAMPER—PROOF AND RED IN COLOR.
- RECIRCUIT ALL RESTROOM LIGHTING FIXTURES AND CONTROLS
 TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND
 CIRCUIT AS REQUIRED
- RECIRCUIT ALL FIRE ALARM BRANCH CIRCUITS ON NORMAL PANELS TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND CIRCUIT AS REQUIRED.

DRAWING NOTES:

- 1) MOUNT TO SUIT DATA RACKS.
- 2 NOT USED.
- 3 RECIRCUIT ALL LIGHITNG FIXTURES AND CONTROLS IN THIS ROOM TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND CIRCUIT AS REQUIRED.

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EXPIRATION DATE: 12-13-2023"



V - AREA A

TERRACE ES - EMERGENCY UPGR

PARTIAL FLOOR
OAKLAND TERRACE ES -

PN# 22079

PROJECT DRH

DESIGNER DS E

DESIGNER BSF

E101

KEY PLAN

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



- REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL REDUCE FEEDER SIZE (IF REQUIRED)
 WITHIN 5'-0 OF EQUIPMENT TO ACCOMMODATE LUG SIZES.
- 3. ALL PANELBOARDS WITH 84-POLES OR LESS SHALL BE IN A SINGLE INTERIOR BACKBOX.
- SINGLE INTERIOR BACKBOX.

 4. VERIFY APPROPRIATE BREAKERS ASSOCIATED WITH
- MECHANICAL EQUIPMENT TO BE ON EMERGENCY POWER ARE BEING RELOCATED TO EMERGENCY PANELS.

 5. ALL NEW EMERGENCY RECEPTACLES SHALL BE TAMPER—PROOF AND RED IN COLOR.
- 6. RECIRCUIT ALL RESTROOM LIGHTING FIXTURES AND CONTROLS TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND
- 7. RECIRCUIT ALL FIRE ALARM BRANCH CIRCUITS ON NORMAL PANELS TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND CIRCUIT AS REQUIRED.

DRAWING NOTES:

CIRCUIT AS REQUIRED

- (1) MOUNT TO SUIT HEALTH REFRIGERATOR.
- 2) IF NO EXISTING FIXTURE IS ON EMERGENCY POWER IN THE ADMIN RECEPTION, CIRCUIT (1) FIXTURE TO NEAREST EMERGENCY CIRCUIT WITH (2)#12 + #12GW 3/4°C.
- 3 RECIRCUIT ALL LIGHITNG FIXTURES AND CONTROLS IN THIS ROOM TO BE SERVED FROM ASSOCIATED <u>E1</u> PANEL. MODIFY/EXTEND CIRCUIT AS REQUIRED.
- PANEL WITH CIRCUITS TO BE RELOCATED TO EMERGENCY PANELS. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.
- (5) MOUNT TO SUIT EXISTING PA SYSTEM. COORDINATE EXACT LOCATION IN FIELD.
- 6 WALK-IN COOLER.
- (7) WALK-IN FREEZER.

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PROFESSIONAL CERTIFICATION. I EREBY CERTIFY THAT THESE DCUMENTS WERE PREPARED OR PPROVED BY ME, AND THAT I AM DULY LICENSED PROFESSIONAL NGINEER UNDER THE LAWS OF HE STATE OF MARYLAND, CENSE No. 51986, CENSE No. 51986,

ENGINEERING, INC.
303 INTERNATIONAL CIRCLE,
SUITE 450
HUNT VALLEY, MD 21030

410.842.6411



L FLOOR PLAN - AREA B ERRACE ES - EMERGENCY UPGRADE

PN# 22079

PROJECT MANAGER DRH

DESIGNER BSF

KEY PLAN

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

E102



- 1. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

"THIS DI AND CO DISCLOS ALBAN E SHALL N IN WHOL THE EXF OF ALBA

EMERGENCY UPGRADE

22079 PROJECT MANAGER

DESIGNER BSF

E103 BID SET 06-09-2023



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OAKLAND TERRACE ES SILVER SPRING, MD

22079 DESIGNER BSF

BID SET 06-09-2023





GENERATOR & UTILITY TRANSFORMER







MAIN SWITCHBOARD





MDF ROOM

| | TING: FREE STANDING AGE: 480/277V, 3ø, 4 WIRE | | A.I.C. RA | | | 9 | | | | LOCATION: MAIN ELEC RM 1600 AMPERE MAIN CIRCUIT BRE | VKED |
|-----|--|---|-----------|------|-------|------|--------|-----|-------|---|------|
| - | AGE. 400/21/11, 09, 4 TIME | | DISTRI | | | | N | | | 1000 AINI LIKE MANG GIROOFI BIKE | |
| FDR | | | CUIT BRE | | N SEC | 7110 | WIRING | | | I | CON |
| NO | SERVES | | FRAME | TRIP | SETS | NO | SIZE | GND | С | REMARKS | KV |
| 1 | SPACE | 3 | | | | | | | | | |
| 2 | TRANSFORMER 1 | 3 | 300 | | | | | | | | |
| 3 | PANEL HD | 3 | 400 | | | | | | | | |
| 4 | CHILLER | 3 | 500 | | | | | | | | |
| 5 | BLANK | | | | | | | | | | |
| 6 | BLANK | | | | | | | | | | |
| 7 | EXISTING CIRCUIT | 3 | 250 | | | | | | | | |
| 8 | PANEL BR | 3 | 225 | | | | | | | | |
| 9 | PANEL HC | 3 | 225 | | | | | | | | |
| 10 | PANEL HA | 3 | 125 | | | | | | | | |
| 11 | PANEL HB | 3 | 125 | | | | | | | | |
| 12 | PANEL E1L (VIA ATS-1) | 3 | 100 | 100 | 1 | 4 | 3 | 8 | 1-1/2 | | 11. |
| 13 | PANEL E2L (VIA ATS-2) | 3 | 150 | 150 | 1 | 4 | 1/0 | 6 | 1-1/2 | | 76. |
| 14 | SPACE | 3 | | | | | | | | | |
| 15 | SPACE | 3 | | | | | | | | | |
| 16 | SPACE | 3 | | | | | | | | | |
| 17 | SPACE | 3 | | | | | | | | | |
| 18 | PANEL EMH | 3 | 40 | | | | | | | | |
| 19 | EXISTING CIRCUIT | 3 | 80 | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |

| DRY | TYPE | TRANS | FC | RME | R SCHEDULE | | | | | | | |
|------|------|----------------------|----|-----|------------------|-------------------|-----------------|----------|----------|---------------------|---------|----------------------|
| XFMR | KVA | PRIMARY VOLTAGE Ø CB | | | PRIMARY WIRING | SECONDARY WIRING | SECO VOLTAGE | NDA ø | RY CB | NEUTRAL/CASE GND | REMARKS | MOUNTING DISCRIPTION |
| TE1R | 15 | 480 | 3 | 30 | 3#10+#10GW-3/4"C | 4#6+#10GW-1 1/4"C | 208/120 | 3 | 60 | #8 | | SUSPENDED |
| TE2R | 45 | 480 | 3 | 90 | 3#3+#8GW-1 1/4"C | 4#1/0+#6GW-2"C | 208/120 | 3 | 150 | #6 | | FLOOR |

| VOLTA | GE: 4 | ANEL E1L 80/277V,3ø,4W ERE BUS | | | CATE | | UIT FR | OM PAN | IEL E | MH 100% RATE | LO | CATION | : ELE | | L ROC | | 00 A.I.C. |
|-------|----------|--------------------------------------|-----|-------|-------|------|--------|--------|----------|---------------------|----------|--------|-------------|-------|--------|------|-----------|
| CONN | - IVII L | INE BOO | BRI | EAKER | A IVI | | IT WIR | ING | | 100 /6 KATE | | EAKER | D 03 | CIRCU | IT WIR | | CONN |
| | СКТ | DESCRIPTION | _ | | NO | SIZE | GND | С | СКТ | DESCRIPTION | _ | AMPS | NO | SIZE | GND | С | KVA |
| 1.8 | 1 | E. LTG - 1ST FLOOR** | 1 | 20 | 2 | 12 | 12 | 3/4 | 2 | PANEL E1R (VIA XFMR | | | | REFER | TO XEI | /IR | 1.5 |
| 1.8 | | E. LTG - BASEMENT** | 1 | 20 | 2 | 12 | 12 | 3/4 | 4 | TE1R) | 3 | 30 | | | EDULE | VIIX | 1.1 |
| 1.8 | | E. LTG - NEW A/B SECT** | 1 | 20 | 2 | 12 | 12 | 3/4 | 6 | | <u> </u> | | _ | | | | 1.1 |
| | 7 | | | | | | | | 8 | LTG - ADMIN | 1 | 20 | 2 | 12 | 12 | 3/4 | 1.0 |
| | 9 | | | | | | | | 10 | LTG - ADMIN | 1 | 20 | 2 | 12 | 12 | 3/4 | 1.0 |
| | 11 | | | | | | | | 12 | | | | | | | | - |
| | 13 15 | | | | | | | | 14 16 | | | | | | | | ╂ |
| | 17 | | | | | | | | 18 | | | | | | | | |
| | 19 | | | | | | | | 20 | | | | | | | | 1 |
| | 21 | | | | | | | | 22 | | | | | | | | ╫ |
| | 23 | | | | | | | | 24 | | | | | | | | |
| | 25 | | | | | | | | 26 | | | | | | | | |
| | 27 | | | | | | | | 28 | | | | | | | | |
| | 29 | | | | | | | | 30 | | | | | | | | |
| | 31 | | | | | | | | 32 | | | | | | | | |
| | 33 | | | | | | | | 34 | | | | | | | | |
| | 35 | | | | | | | | 36 | | | | | | | | |
| | 37 | | | | | | | | 38 | | | | | | | | 0.1 |
| | 39 | | | | | | | | 40 | SPD | 3 | 30 | 4 | 10 | 10 | 3/4 | 0.1 |
| | 41 | | | | | | | | 42 | | | | | | | | 0.1 |

| /OLTA | GE: 2 | ANEL E1R 208/120V,3ø,4W | | | | | UIT FR | OM PAN | NEL EI | | LO | CATION | : ELE | | L ROC | | |
|-------|-------|----------------------------|-----|------|-----|-------|--------|--------|--------|-------------|------|--------|-------|-------|---------|-------|----------|
| 100 | AMP | ERE BUS | | 60 | A M | СВ | | | | 100% RATE | D NE | UTRAL | BUS | | | 42,00 | 00 A.I.C |
| CONN | | | BRI | AKER | | CIRCU | IT WIR | ING | | | BR | EAKER | | CIRCU | IT WIRI | NG | CONN |
| KVA | CKT | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | СКТ | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | KVA |
| 1.4 | 1 | FA SYSTEM** | 1 | 20 | 2 | 12 | 12 | 3/4 | 2 | | | | | | | | |
| 1.0 | 3 | LTG - ADMIN | 1 | 20 | 2 | 12 | 12 | 3/4 | 4 | | | | | | | | |
| 1.0 | 5 | LTG - ADMIN | 1 | 20 | 2 | 12 | 12 | 3/4 | 6 | | | | | | | | |
| | 7 | | | | | | | | 8 | | | | | | | | |
| | 9 | | | | | | | | 10 | | | | | | | | |
| | 11 | | | | | | | | 12 | | | | | | | | |
| | 13 | | | | | | | | 14 | | | | | | | | |
| | 15 | | | | | | | | 16 | | | | | | | | |
| | 17 | | | | | | | | 18 | | | | | | | | |
| | 19 | | | | | | | | 20 | | | | | | | | |
| | 21 | | | | | | | | 22 | | | | | | | | |
| | 23 | | | | | | | | 24 | | | | | | | | |
| | 25 | | | | | | | | 26 | | | | | | | | |
| | 27 | | | | | | | | 28 | | | | | | | | |
| | 29 | | | | | | | | 30 | | | | | | | | |
| | 31 | | | | | | | | 32 | | | | | | | | |
| | 33 | | | | | | | | 34 | | | | | | | | |
| | 35 | | | | | | | | 36 | | | | | | | | |
| | 37 | | | | | | | | 38 | | | | | | | | 0.1 |
| | 39 | | | | | | | | 40 | SPD | 3 | 30 | 4 | 10 | 10 | 3/4 | 0.1 |
| | 41 | | | | | | | | 42 | | | | | | | | 0.1 |

| PANE VOLTA | | 2RA 208/120V,3ø,4W | | | | | | | | | | UNTING | | | AL ROO | М | |
|---------------|------|-----------------------|----|-------|-----|-------|---------|-----|-----|----------------|------|--------|-----|-------|---------|-------|-----------|
| 100 | AMPI | ERE BUS | | 50 | A M | СВ | | | | 100% RATED |) NE | UTRAL | BUS | | | 42,00 | 00 A.I.C. |
| CONN | | | BR | EAKER | | CIRCL | IIT WIR | ING | | | BRI | EAKER | | CIRCL | IT WIRI | NG | CONN |
| KVA | CKT | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | СКТ | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | KVA |
| 1.2 | 1 | QUAD - IT ROOM | 1 | 20 | 2 | 12 | 12 | 3/4 | 2 | | | | | | | | |
| 1.2 | 3 | QUAD - IT ROOM | 1 | 20 | 2 | 10 | 10 | 3/4 | 4 | | | | | | | | |
| | 5 | | | | | | | | 6 | | | | | | | | |
| | 7 | | | | | | | | 8 | | | | | | | | |
| | 9 | | | | | | | | 10 | | | | | | | | |
| | 11 | | | | | | | | 12 | | | | | | | | |
| | 13 | | | | | | | | 14 | | | | | | | | |
| | 15 | | | | | | | | 16 | | | | | | | | |
| | 17 | | | | | | | | 18 | | | | | | | | |
| | 19 | | | | | | | | 20 | | | | | | | | |
| | 21 | | | | | | | | 22 | SPD | 3 | 30 | 4 | 10 | 10 | 3/4 | |
| | 23 | | | | | | | | 24 | | | | | | | | |
| TOTAL | CON | NECTED LOAD | | 2.4 | KVA | | | | | KVA PER PHASE: | Α | 1.2 | В | 1.2 | С | 0.0 | |

| PANE | | | | | | | | OM PAN | | | | | UNTING CATION | | | N BOO | NA. | |
|------|----------|---------------------------|----|-------|-----|-------|---------|----------|----------|-------|-------------|----|------------------|----------|-------|---------|-----------------|--------|
| | | 180/277V,3ø,4W ERE BUS | | | A M | | JUII FR | OW PAN | ELB | | 100% RATE | | | | | AL ROC | | 0 A.I. |
| CONN | | | BR | EAKER | | CIRCL | JIT WIR | ING | | | | BR | EAKER | | CIRCU | JIT WIR | NG | CON |
| KVA | CKT | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | CKT | | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | KV |
| 9.0 | 1 | | | | | | | | 2 | | | | | | | | | 0.0 |
| 9.0 | 3 | P-1** | 3 | 70 | 3 | 4 | 8 | 1-1/4 | | P-2** | | 3 | 70 | 3 | 4 | 8 | 1-1/4 | 0.0 |
| 9.0 | 5 | | | | | | | | 6 | 1 | | | | | | | | 0.0 |
| 3.8 | 7 | | | | | | | | 8 | | | | | | | | | 0.0 |
| 3.8 | 9 | P-3** | 3 | 30 | 3 | 10 | 10 | 3/4 | 10 | P-4** | | 3 | 30 | 3 | 10 | 10 | 3/4 | 0.0 |
| 3.8 | 11 | | | | | | | | 12 | | | | | | | | | 0.0 |
| 1.0 | 13 | POWER METER* | 1 | 20 | 2 | 12 | 12 | 3/4 | 14 | | | | | | | | | |
| 1.0 | 15 | POWER METER* | 1 | 20 | 2 | 12 | 12 | 3/4 | 16 | | | | | | | | | |
| 1.0 | 17 | POWER METER* | 1 | 20 | 2 | 12 | 12 | 3/4 | 18 | | | | | | | | | |
| | 19 | | | | | | | | 20 | | | | | | | | | |
| | 21 | | | | | | | | 22 | | | | | | | | | |
| | 23 | | | | | | | | 24 | | | | | | | | | |
| | 25 | | | | | | | | 26 | | | | | | | | | |
| | 27 | | | | | | | | 28 | | | | | | | | | |
| | 29 | | | | | | | | 30 | | | | | | | | | |
| | 31 | | - | | | | | | 32 | | | | | \vdash | | | | |
| | 33 | | | | | | | | 34 | | | | | | | | | |
| 12.2 | 35 | | - | | | | | <u> </u> | 36 38 | | | + | | | | | | |
| 12.3 | 37 39 | PANEL E2R (VIA XFMR | 3 | 90 | | REFER | | | 40 | SPD | | 3 | 30 | 4 | 10 | 10 | 3/4 | 0.1 |
| 9.7 | 41 | TE2R) | ~ | 30 | | SCH | EDULE | . | 40 | | | | 30 | | 10 | | J/ 1 | 0.1 |

| PANE | L E2 | 2R | *RE | LOCAT | ED C | IRCUIT | FROM P | PANEL | EML | | MC | UNTING | : SU | RFACE | | | |
|-------|-------|----------------------|-----|-------|-------|--------|---------------------------------------|---------------------------------------|------|-----------------------|------|--------|-------|--------|----------|-------|-----------|
| /OLTA | GE: 2 | 208/120V,3ø,4W | **R | ELOCA | TED F | FROM P | ANEL L | L | ***R | ELOCATED FROM PANEL K | LO | CATION | : ELE | CTRICA | L ROO | М | |
| 150 | AMPI | ERE BUS | | 150 | A M | СВ | | | | 100% RATED |) NE | UTRAL | BUS | | | 42,00 | 00 A.I.C. |
| CONN | | | BR | EAKER | | CIRCL | JIT WIRII | NG | | | BR | EAKER | | CIRCL | IIT WIRI | NG | CONN |
| KVA | СКТ | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | СКТ | DESCRIPTION | Р | AMPS | NO | SIZE | GND | С | KVA |
| 1.2 | 1 | QUAD - IT ROOM | 1 | 20 | 2 | 12 | 12 | 3/4 | 2 | REC - HEALTH FRIDGE | 1 | 20 | 2 | 12 | 12 | 3/4 | 1.0 |
| 1.2 | 3 | QUAD - IT ROOM | 1 | 20 | 2 | 12 | 12 | 3/4 | 4 | BOILER-1** | 1 | 25 | 2 | 10 | 10 | 3/4 | 2.0 |
| 1.2 | 5 | QUAD - IT ROOM | 1 | 20 | 2 | 12 | 12 | 3/4 | 6 | BOILER-2** | 1 | 25 | 2 | 10 | 10 | 3/4 | 2.0 |
| 0.5 | 7 | EPO - BOILER ROOM** | 1 | 20 | 2 | 12 | 12 | 3/4 | 8 | BOILER-3** | 1 | 25 | 2 | 10 | 10 | 3/4 | 2.0 |
| 0.6 | 9 | HWG** | 1 | 20 | 2 | 12 | 12 | 3/4 | 10 | WATER CIRC PUMP** | 1 | 20 | 2 | 12 | 12 | 3/4 | 0.8 |
| 0.8 | 11 | HEAT TRACE DOAS-1* | 1 | 20 | 2 | 12 | 12 | 3/4 | 12 | SECURITY REC 1ST FLR* | 1 | 20 | 2 | 12 | 12 | 3/4 | 0.4 |
| 0.8 | 13 | HEAT TRACE DOAS-2* | 1 | 20 | 2 | 12 | 12 | 3/4 | 14 | SECURITY REC 1ST FLR* | 1 | 20 | 2 | 12 | 12 | 3/4 | 0.4 |
| 0.5 | 15 | HEAT TAPE COOLER*** | 1 | 20 | 2 | 12 | 12 | 3/4 | 16 | SOUND RACK* | 1 | 20 | 2 | 12 | 12 | 3/4 | 0.8 |
| 0.5 | 17 | HEAT TAPE FREEZER*** | 1 | 20 | 2 | 12 | 12 | 3/4 | 18 | SECURITY REC BSMT* | 1 | 20 | 2 | 12 | 12 | 3/4 | 0.4 |
| 0.5 | 19 | FREEZER LIGHTS*** | 1 | 20 | 2 | 12 | 12 | 3/4 | 20 | REC - TELE EQUIP* | 1 | 20 | 2 | 12 | 12 | 3/4 | 0.8 |
| 1.0 | 21 | WALK-IN COOLER*** | 1 | 20 | 2 | 12 | 12 | 3/4 | 22 | | | | | | | | 1.0 |
| 0.5 | 23 | COOLER LIGHTS*** | 1 | 20 | 2 | 12 | 12 | 3/4 | 24 | COOLER COMPRESSOR*** | 3 | 20 | 3 | 12 | 12 | 3/4 | 1.0 |
| 0.5 | 25 | FREEZER FAN*** | 2 | 20 | 2 | 12 | 12 | 3/4 | 26 | 6 | | | | | | | 1.0 |
| 0.5 | 27 | I INCLECTION | _ | 20 | _ | 12 | '2 | 3/4 | 28 | | | | | | | | 1.0 |
| 8.0 | 29 | | | | | | | | 30 | COOLER COMPRESSOR*** | 3 | 20 | 3 | 12 | 12 | 3/4 | 1.0 |
| 0.8 | 31 | FREEZER HEAT TAPE*** | 3 | 20 | 3 | 12 | 12 | 3/4 | 32 | | | | | | | | 1.0 |
| 0.8 | 33 | | | | | | | | 34 | PA SYSTEM | 1 | 20 | 2 | 12 | 12 | 3/4 | 1.0 |
| | 35 | | | | | | | | 36 | | | | | | | | |
| | 37 | | | | | | | | 38 | | | | | | | | |
| | 39 | | | | | | | | 40 | | | | | | | | |
| 0.5 | 41 | GEN BLOCK HEATER | _ | 20 | 2 | 12 | 12 | 3/4 | 42 | | | | | | | | |
| 0.5 | 43 | IGEN DLOCK MEATER | 2 | 20 | 2 | 12 | 12 | 3/4 | 44 | | | | | | | | |
| 0.5 | 45 | STIP/BATTERY HEATER | 1 | 20 | 2 | 12 | 12 | 3/4 | 46 | | | | | | | | |
| 0.5 | 47 | GEN BATTERY CHARGER | 1 | 20 | 2 | 12 | 12 | 3/4 | 48 | | | | | | | | |
| 1.2 | 49 | | | | | | | | 50 | | | | | | | | 0.1 |
| 1.2 | 51 | PANEL E2RA | 3 | 50 | 4 | 6 | 10 | 1 | 52 | SPD | 3 | 30 | 4 | 10 | 10 | 3/4 | 0.1 |
| 0.0 | 53 | | | | | | | | 54 | | | | | | | | 0.1 |
| OTAL | CON | NECTED LOAD | | 35.0 | KVA | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | KVA PER PHASE: | Α | 12.3 | В | 13.0 | С | 9.7 | |

OAKLAND TERRACE ES - E

PN# 22079

PROJECT DRH

DESIGNER BSF

E601

BID SET 06-09-2023

PLUMBING GENERAL NOTES:

- A. COORDINATE NEW WORK BETWEEN ALL DISCIPLINES.
- B. REFER TO SECTIONS ON ARCHITECTURAL AND MECHANICAL DRAWINGS FOR PIPE ROUTING THROUGH THE FACILITY.
- C. COORDINATE PLUMBING PIPING ENCLOSURES WITH ARCHITECTURAL DRAWINGS PRIOR TO
- SETTING PIPING BELOW SLABS.

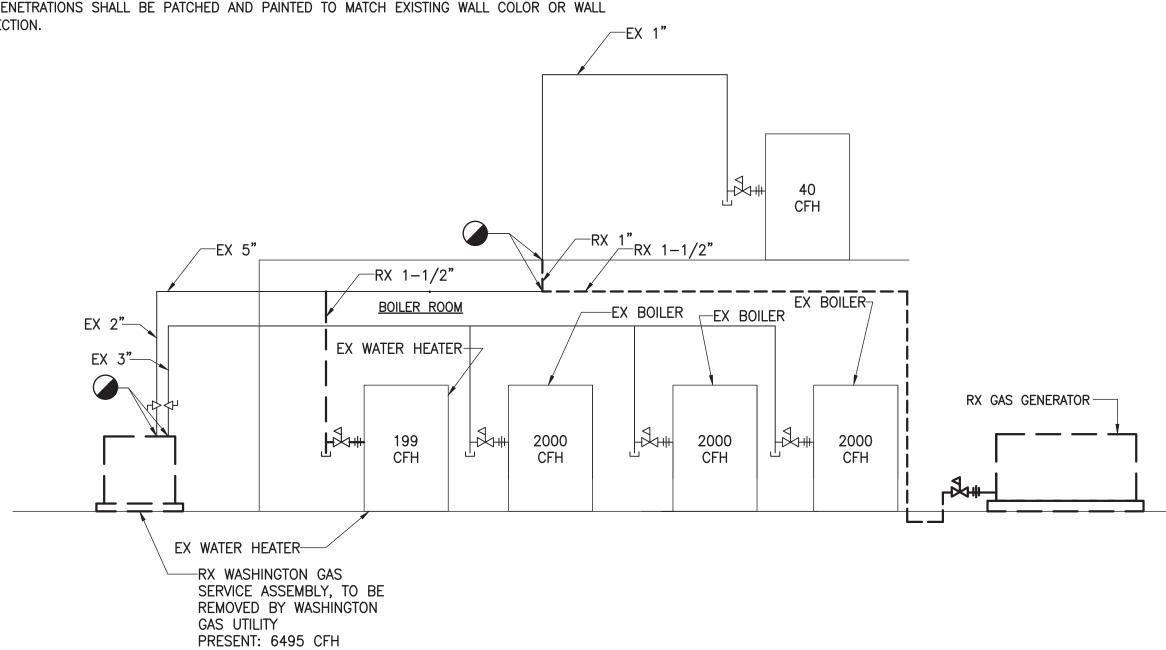
 D. FIELD VERIFY PIPING MATERIALS AND SIZES PRIOR TO CONNECTION THERETO.
- E. INSTALL PIPING TO ALLOW ACCESS TO VALVES.
- J. WHERE HOT AND COLD WATER PIPING DROPS INTO PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- K. ITEMS SUCH AS ACCESS DOORS, RISE AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- L. FIXTURES SUBJECT TO INTERMITTENT OR CONTINUOUS PRESSURE BACK-SIPHONAGE SHALL BE PROVIDED WITH A BACKFLOW PREVENTION DEVICE.
- M. COORDINATE SETTING OF KITCHEN FLOOR SINKS AND FLOOR DRAINS WITH LOCAL PLUMBING INSPECTOR.
- N. ALL PIPING NOT INDICATED IN CHASES SHALL BE LOCATED ABOVE CEILING AS HIGH AS POSSIBLE. COORDINATE ROUTING OF PIPING WITH OTHER DISCIPLINES.
- O. REFER TO ALL ARCHITECTURAL DRAWINGS FOR RATED WALL ASSEMBLY LOCATIONS.

MISCELLANEOUS

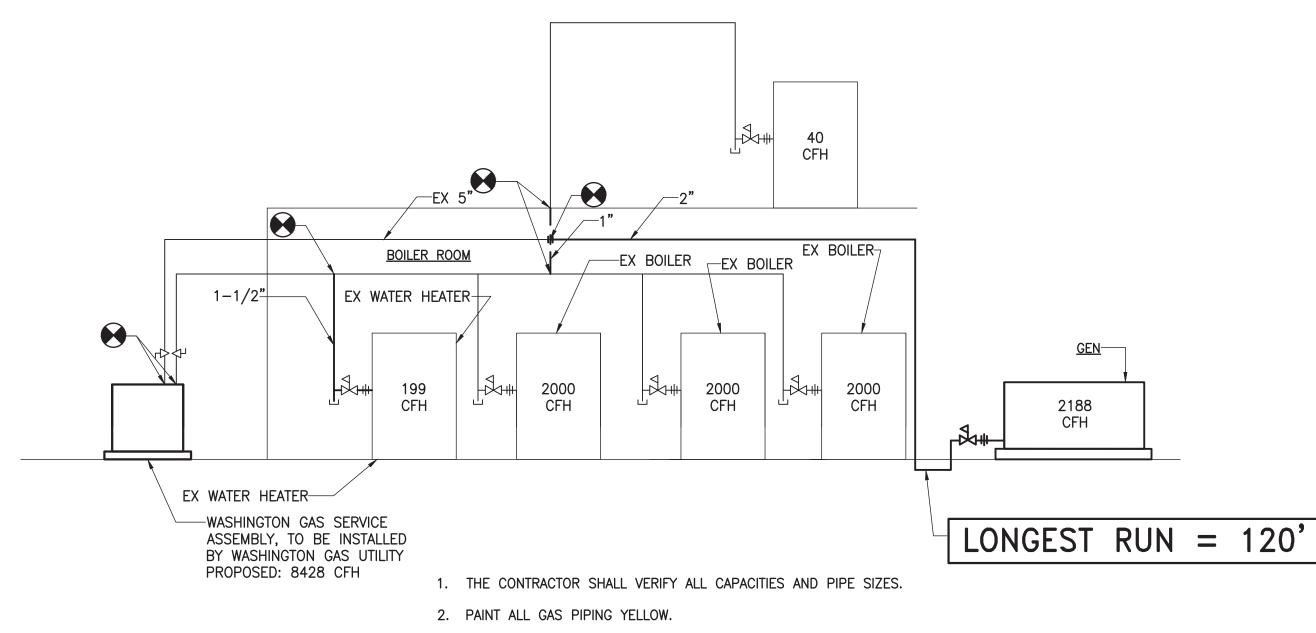
- (1) REFERENCE TO DRAWING NOTE
- #/P#.# DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER
- ITEMS SHOWN DASHED/HEAVY ARE TO BE REMOVED
 - ITEMS SHOWN BASHED/HEAVY ARE EXISTING TO REMAIN
 - ITEMS SHOWN DASHED-DOTTED/LIGHT ARE TO OCCUR
 IN FUTURE PHASES

DEMOLITION NOTES:

- 1. DEMOLITION DRAWINGS ARE DIAGRAMMATIC IN NATURE; NO ATTEMPT HAS BEEN MADE TO SHOW ALL EXISTING MECHANICAL/PLUMBING WORK IN AREAS INDICATED TO BE RENOVATED. ALL EXISTING MECHANICAL/PLUMBING WORK IS TO REMOVED UNLESS OTHERWISE NOTED. WHEN AN ITEM TO BE REMOVED, REMOVE ALL ASSOCIATED MECHANICAL/PLUMBING WORK BACK TO POINT—OF—SOURCE.
- 2. WHERE WORK PASSES THROUGH THE RENOVATION AREA TO SERVE OTHER PORTIONS OF THE BUILDING, OR WORK IN THE RENOVATION AREA INDICATED TO BE REMAIN, IT SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTORED TO NORMAL. COORDINATE ANY OUTAGES WITH OWNER 7 DAYS IN ADVANCE.
- 3. WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED AGAINST DAMAGE.
- 4. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE OWNER TO MINIMIZE DISRUPTION OF THE NORMAL DAILY FUNCTIONING OF THE OWNERS OCCUPIED AREAS.
- 5. REMOVE AND REINSTALL ALL EXISTING CEILING MOUNTED DEVICES INDICATED TO REMAIN AS REQUIRED TO SUIT NEW CEILING INSTALLATION.
- 6. ALL REMOVED DEVICE WALL PENETRATIONS SHALL BE PATCHED AND PAINTED TO MATCH EXISTING WALL COLOR OR WALL COLOR PER ARCHITECT'S DIRECTION.



PARTIAL SCHEMATIC NATURAL GAS PIPING RISER DIAGRAM - DEMOLITION



3. GAS PIPING SIZED PER 2018 IFGC TABLE 402.4(5).

PARTIAL SCHEMATIC NATURAL GAS PIPING RISER DIAGRAM - NEW WORK

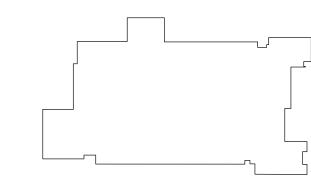
LEGEND

| | SYMBOLS | | SYMBOLS | LABI | BREVIATIONS | AB | BREVIATIONS |
|---------------|---------------------------------------|------------------|---------------------------------------|-------------|---|--------------|---|
| SYMBOL | DEFINITION | SYMBOL | DEFINITION | ABBREV. | DEFINITION | ABBREV. | DEFINITION |
| | COLD WATER | | FLOOR SINK | 140° | 140° DOMESTIC HOT WATER | HYD | HYDRAULIC |
| | TEMPERED WATER (110°) | (#) | ROOF DRAIN (W/ SQ.FT INDICATED) | 140°R | 140° DOMESTIC HOT WATER RETURN AUTOMATIC AIR VENT | IN | INCHES INVERT ELEVATION |
| | ` ′ | 1 | · · · · · · · · · · · · · · · · · · · | AAV ABV | ABOVE | I.E. | INDIRECT WASTE |
| | TEMPERED WATER RETURN (110°) | | TRAP (ELEVATION) | AD | AREA DRAIN | LOC | LIMIT OF CONTRACT |
| | 140° DOMESTIC HOT WATER | | VENT THROUGH ROOF (ELEVATION) | AFF | ABOVE FINISHED FLOOR | MAV | MANUAL AIR VENT |
| | 140° DOMESTIC HOT WATER RETURN | 0 | VENT THROUGH ROOF (PLAN) | ANC AP | ANCHOR ACCESS PANEL | NFGH NFWH | NON-FREEZE GROUND HYDRANT NON-FREEZE WALL HYDRANT |
| т | TEMPERED WATER | | MIXING VALVE | APPROX | APPROXIMATE | NRS | NON-RISING STEM & YOKE |
| F | FIRE LINE | | METER (FLUID OR GAS) | AQ | AQUASTAT | OHD | OPEN HUB DRAIN |
| • | | | · · · · · · · · · · · · · · · · · · · | AV AW | ACID VENT ACID WASTE | 0,S,&Y | OUTSIDE STEM & YOKE VALVE PRESSURE |
| —— SP ——— | SPRINKLER LINE | " | INCHES | BDV | BLOW DOWN VALVE | PCOND | PUMPED CONDENSATE |
| | SANITARY | , | FEET | BF | BLIND FLANGE | PD | PUMPED DISCHARGE |
| | VENT | — 5 — | HOSE BIBB (PLAN) | BFP | BACKFLOW PREVENTER | PH | PIPE HANGER |
| | STORM WATER | | NON-FREEZE WALL HYDRANT | BHP BOP | BRAKE HORSEPOWER BOTTOM OF PIPE | PRV PS | PRESSURE REDUCING VALVE PRESSURE SWITCH |
| DD | PUMPED DISCHARGE | 工, | | BOTT | ВОТТОМ | PSAN | PUMPED SANITARY |
| —— PD ——— | | · | HOSE BIBB (ELEV.) | BTU | BRITISH THERMAL UNIT | PSC | PUMPED STEAM CONDENSATE |
| COND | CONDENSATE DRAIN | | HOSE END DRAIN | BTUH | BRITISH THERMAL UNIT PER HOUR | RD | ROOF DRAIN |
| | FOUNDATION DRAIN | TS TS | OUTSIDE STEM & YOKE VALVE | BWV CAP | BACK WATER VALVE W/ ACCESS COVER CAPACITY | RL SAN, S | RAIN LEADER SANITARY |
| AW | ACID RESISTANT WASTE | □TS | NON-RISING STEM & YOKE | CD, COND | CONDENSATE DRAIN | SC | STEAM CONDENSATE |
| AV | ACID RESISTANT VENT | □FS | FLOW SWITCH | CI | CAST IRON | SCH | SCHEDULE |
| | | | | CLG | CEILING CLEANOUT | SP STD | SPRINKLER LINE STANDARD |
| G | COMPRESSED AIR | <u>TS</u> | TAMPER SWITCH | CONN | CONNECT | SW | STORM WATER |
| δ | BALL VALVE | <u>PS</u> | PRESSURE SWITCH | CONC | CONCRETE | Т | TEMPERATURE |
| | PIPING BELOW GRADE OR SLAB | | FIRE DEPT HOSE CONNECTION | CU FT | CUBIC FEET | TD | TRENCH DRAIN |
| | BUTTERFLY VALVE | 悬云□FS | FLOOR CONTROL VALVE ASSEMBLY | CX | COLD WATER CONNECT TO EXISTING | TS TW | TAMPER SWITCH TEMPERED WATER |
| | UNION | | 'Y' STRAINER | DDC | DOUBLE DETECTOR CHECK VALVE | TWR | TEMPERED WATER RETURN |
| 111 | | | | DFU | DRAINAGE FIXTURE UNITS | UP | PIPE UP |
| | GATE VALVE | | WATER HAMMER ARRESTOR | DIA DISH | DIAMETER DISCHARGE | UP&DN V | PIPE UP & DN VENT |
| ─ ⋈── | GLOBE VALVE | | ACCESS PANEL | DN | PIPE DOWN | VB | VACUUM BREAKER |
| —⊗—— | BALANCING VALVE | | POINT OF CONN. TO SITE UTILITIES | DS | DOWN SPOUT W/BOOT | VTR | VENT THROUGH ROOF |
| <u></u> | PLUG VALVE | <u> </u> | SQUARE FOOTAGE | DST | DEEP SEAL TRAP DRAWING | WCO | WALL CLEANOUT WATER HAMMER ARRESTOR |
| | REDUCED PRESS. BACKFLOW PREVENTER | | DUPLEX GAS OUTLET | ELEC | ELECTRIC | WSFU | WATER SUPPLY FIXTURE UNITS |
| | | <u>Q</u> | DOPLEX GAS COILET | ELEV | ELEVATION | TD | TRENCH DRAIN |
| | PRESSURE REDUCING VALVE | | ECCENTRIC REDUCER | EWT EX | ENTERING WATER TEMPERATURE | NOTE | |
| | CHECK VALVE | | CONCENTRIC REDUCER | EX F | EXISTING FIRE LINE | NOTE: | . ABBREVIATIONS MAY BE USE |
| | DOUBLE DETECTOR CHECK VALVE | | FLEXIBLE CONNECTION | FC | FUNNEL CONNECTION @ FD | NOT ALL | ABBITEVIATIONS WIAT BE USE |
| | BACKWATER VALVE | | CAPPED PIPE | FCO | FLOOR CLEANOUT | | |
| <u> </u> | FLOOR CLEANOUT | | BLIND FLANGE | FCVA FD | FLOOR CONTROL VALVE ASSEMBLY FLOOR DRAIN | | |
| | | | | FDV | FIRE DEPT. HOSE CONNECTION | | |
| | WALL CLEANOUT | <u> </u> | MANUAL AIR VENT | FS | FLOW SWITCH | | |
| 0 | PIPE UP | | AUTOMATIC AIR VENT | FT.HD | FEET OF HEAD | | |
| 0 | PIPE UP & DOWN | н⊳⊲ні | BLOW DOWN VALVE (W/HOSE END) | G | GAS | | |
| | PIPE DOWN | % 7 | PRESSURE/TEMP. RELIEF VALVE | GA | GAUGE | | |
| | | | · · · · · · · · · · · · · · · · · · · | GALV | GALVANIZED | | |
| | SIGHT GLASS | ΔΡ | PRESSURE DIFFERENCE | GPM HB | GALLONS PER MINUTE HOSE BIBB | | |
| | FLOAT VALVE | Δτ | TEMPERATURE DIFFERENCE | HED | HOSE END DRAIN | | |
| 0 | FLOOR DRAIN | | CENTER LINE | HOR | HORIZONTAL | | |
| 07 | FLOOR DRAIN WITH TRAP PRIMER | Q Q | THERMOMETER | HP HT | HORSEPOWER | | |
| <u> </u> | PRESSURE GAUGE W/ NEEDLE VALVE | | | HT HW | HEAT TRAP HOT WATER (140°F) | | |
| • | · | NOTE: NOT | ALL SYMBOLS MAY BE USED. | HWR | HOT WATER RETURN (140°F) | | |
| Ø | DIAMETER (OR ELECTRICAL PHASE) | | | | | - | |
| | BACK WATER VALVE W/ ACCESS COVER | | | | | | |
| | SOLENOID VALVE | | | | | | |
| | SLOPE OF PIPE (WITH % OF SLOPE SHOWN) | | | | | | |
| | SECTE OF THE (WITH A OF SECTE SHOWIN) | | | | | | |

DIRECTION OF FLOW

FUNNEL CONNECTION @ FLOOR DRAIN

SANITARY/WATER RISER DESIGNATION



KEY PLAN

NO. DATE DESCRIPTIO

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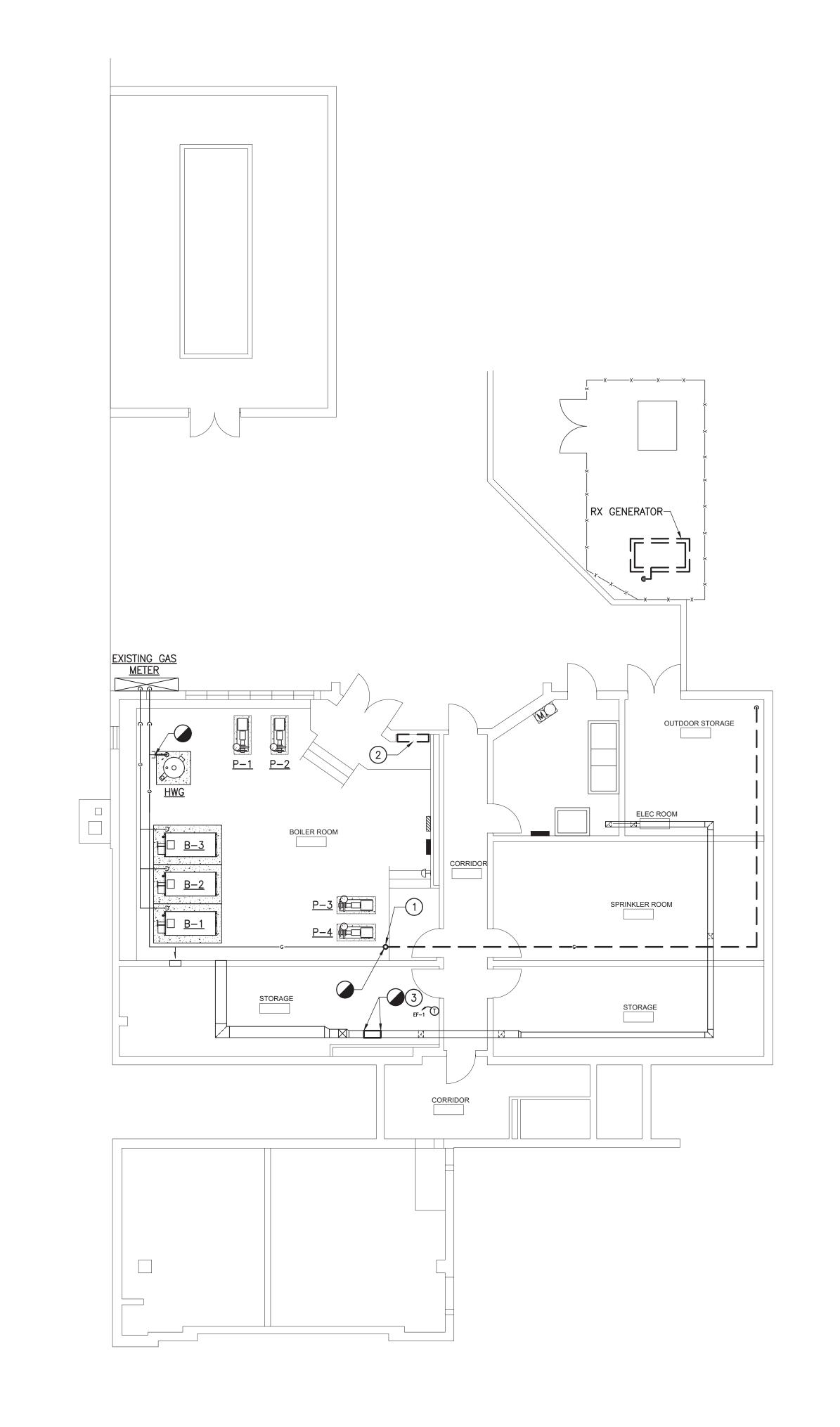
/PLUMB LEGEND, CONVENTIONS, AND ABBREVIATIONS
TERRACE ES - EMERGENCY UPGRADE

PN# 22079
PROJECT DRH

MP001

DESIGNER

BID SET 06-09-2023



BASEMENT FLOOR PLAN

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

GENERAL NOTES:

PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF, ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.

2. REMOVE EXISTING ACOUSTIC CEILING TILES AS REQUIRED FOR

DEMOLITION. REPLACE ALL DEMOLISHED CEILING COMPONENTS IN KIND TO MATCH EXISTING CONDITIONS.

DRAWING NOTES: REMOVE EXISTING PIPING ON FIRST FLOOR UP TO NATURAL GAS PIPING TO EXISTING HVAC UNITS.

2 CUT AND MODIFY BOTTOM OF EXISTING BOILER PLENUM TO ALLOW FOR 30"x12" FREE AREA. PERFORM WORK UNDER ADD ALTERNATE

3 PERFORM DEMOLITION WORK UNDER ADD ALTERNATE #1.

BASEMENT PLAN

MPD100 BID SET 06-09-2023

PROJECT MANAGER

DESIGNER

EMERGENCY UPGRADE

OAKLAND TERRACE ES – EN SILVER SPRING, MD 20902

22079

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 $\frac{KEY PLAN}{SCALE: 1/8" = 1'-0"}$

EX BOILER FLUES PARTIAL ROOF PLAN — AREA A — DEMOLITION

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

1. PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF, ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES. ALL ROOFING WORK SHALL BE PERFORMED BY AN MCPS APPROVED ROOFING VENDOR TO MAINTAIN THE EXISTING WARRANTY IN THE AREAS OF WORK.

DRAWING NOTES:

PERFORM DEMOLITION WORK UNDER ADD ALTERNATE #1.

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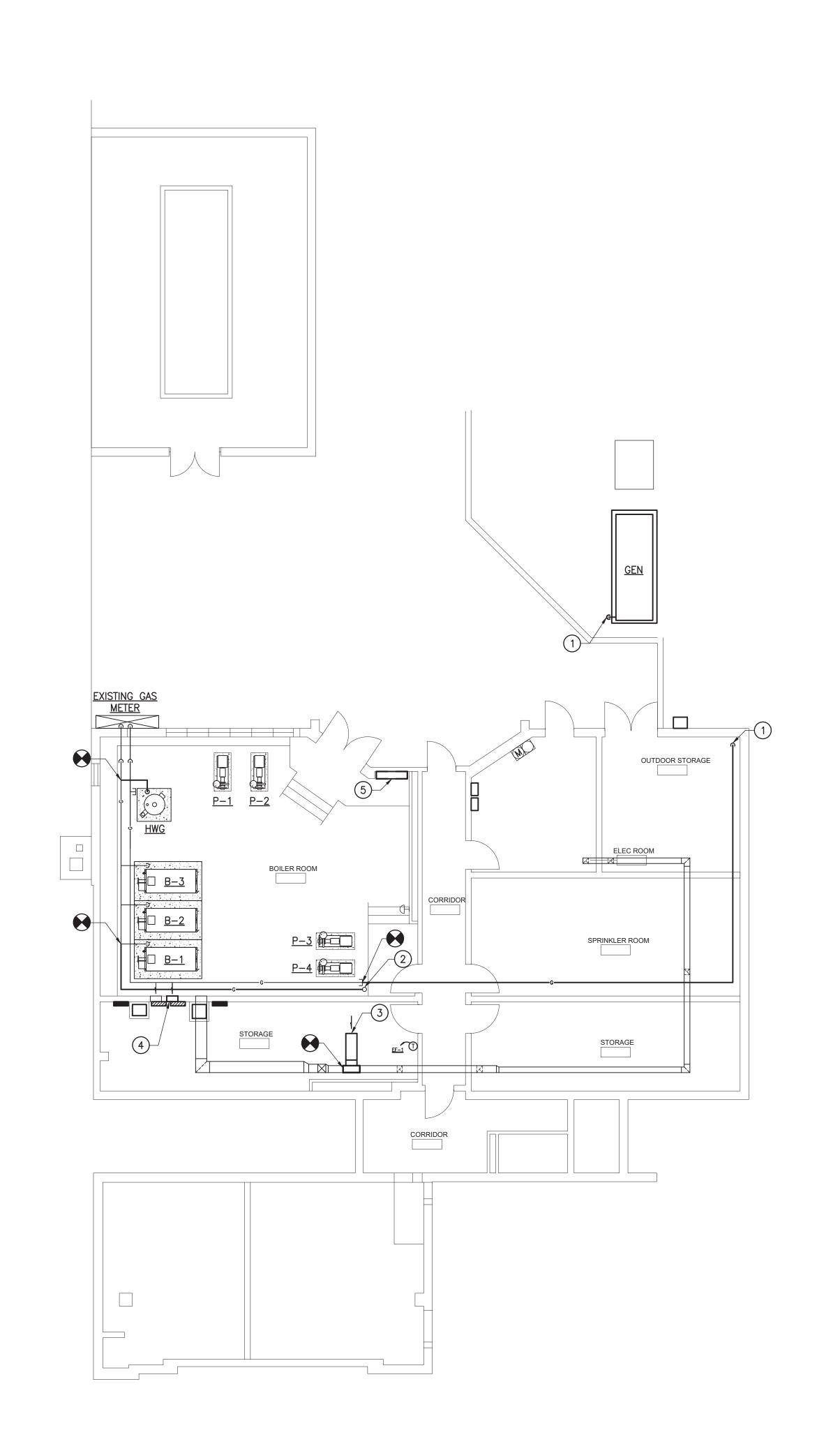


ARTIAL ROOF PLAN — AREA A
DEMOLITION
KLAND TERRACE ES — EMERGENCY UPGRADE

PN# 22079

PROJECT DRH

DESIGNER GAD



BASEMENT FLOOR PLAN

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

- PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF, ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.
- REMOVE EXISTING ACOUSTIC TILE CEILINGS AS REQUIRED FOR DEMOLITION. REPLACE ALL DEMOLISHED CEILING COMPONENTS IN KIND TO MATCH EXISTING CONDITIONS.

DRAWING NOTES:

- RUN NEW GAS PIPING ALONG EXISTING PATH TO GENERATOR FROM BUILDING.
- 2 RECONNECT TO EXISTING GAS PIPING OUT TO EXISTING HVAC EQUIPMENT.
- 3 14"x14" OPEN END EXHAUST DUCT, SIZED FOR 500 CFM. PROVIDE STAINLESS STEEL BIRD SCREEN AT OPEN END TERMINATION. PROVIDE UNDER ADD ALTERNATE #1.
- 4) 16"x8" TRANSFER AIR GRILLE, SIZE FOR 350 CFM AIR TRANSFER. PROVIDE UNDER ADD ALTERNATE #1
- 5 MODIFY BOILER PLENUM TO PROVIDE LOUVER WITH 30"x12" FREE SPACE. PROVIDE MOTOR OPERATED DAMPER AT OPENING FOR LOUVER CONTROL. PROVIDE UNDER ADD ALTERNATE #1

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CE ES - EMERGENCY UPGRADE

BASEMENT PLAN

OAKLAND TERRACE ES - EN

SILVER SPRING, MD 20902

PN# 22079

PROJECT DRH

DESIGNER GAD

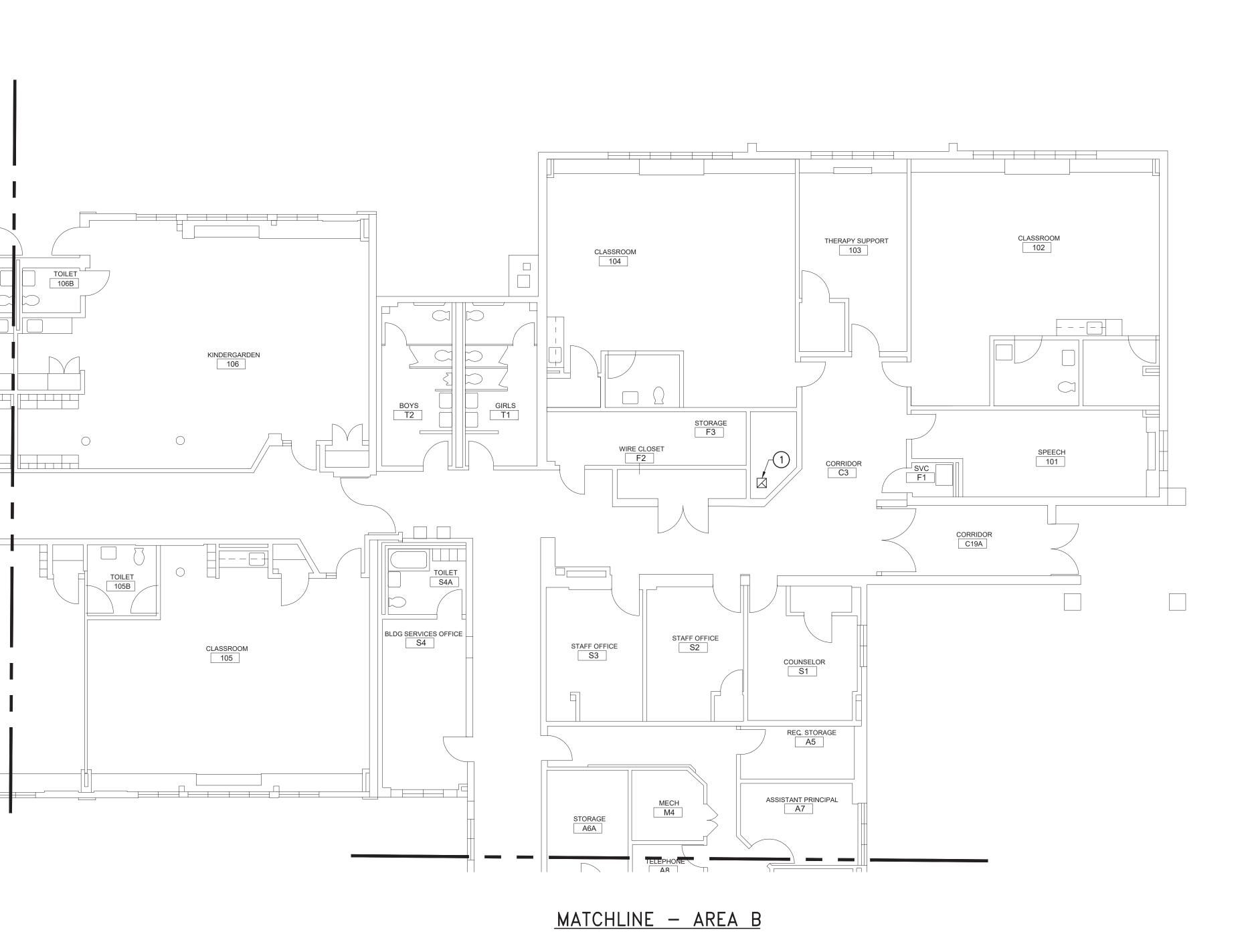
KEY PLAN
SCALE: 1/8" = 1'-0"

0 8 16

MP 10

MP100

BID SET 06-09-2023



PARTIAL FLOOR PLAN — AREA A

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

GENERAL NOTES:

- PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF, ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.
- 2. REMOVE EXISTING ACOUSTIC TILE CEILINGS AS REQUIRED FOR DEMOLITION. REPLACE ALL DEMOLISHED CEILING COMPONENTS IN KIND TO MATCH EXISTING CONDITIONS.

DRAWING NOTES:

ETR 12"x12" EA DUCT UP TO <u>EF-1</u>, PROVIDED UNDER ADD ALTERNATE #1.





OAKLAND TERRACE ES – EN SILVER SPRING, MD 20902 PARTIAL FLOOR

22079 PROJECT MANAGER

DESIGNER GAD

MP101 BID SET 06-09-2023

 $\frac{KEY PLAN}{SCALE: 1/8" = 1'-0"}$

EX EXHAUST PIPING EX BOILER FLUES PARTIAL ROOF PLAN — AREA A

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

GENERAL NOTES:

- PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS, ROOF, ETC), FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES.
- REMOVE EXISTING ACOUSTIC TILE CEILINGS AS REQUIRED FOR DEMOLITION. REPLACE ALL DEMOLISHED CEILING COMPONENTS IN KIND TO MATCH EXISTING CONDITIONS.

DRAWING NOTES:

MOUNT EXHAUST FAN ON ADAPTER CURB, PROVIDE UNDER ADD ALTERNATE #1.

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EMERGENCY UPGRADE PARTIAL ROOF PLAN

OAKLAND TERRACE ES – EN SILVER SPRING, MD 20902

22079 PROJECT MANAGER DESIGNER BSF

MP102 BID SET 06-09-2023

 $\frac{\text{KEY PLAN}}{\text{SCALE: } 1/8" = 1'-0"}$

| | | | | | | FAN | SCH | IEDUL | E | | | | |
|------|---------------------|-----------|----------|---------|----------|------|--------|------------|------|----------|--------------------|-----------------------|------------|
| | | | | | | | CHARA | ACTERISTIC | S | | | | |
| UNIT | ARFA SERVED | INTERLOCK | LOCATION | | ESP | | DRIVE | мот | OR | ELECT | RICAL | TYPE | BASED ON |
| F-X | | MILKEOOK | LOCATION | MAX CFM | (IN H20) | FRPM | TYPE | НР | TYPE | V/ø/Hz | EMERGENCY POWER | 1112 | (GREENHECK |
| 1 | NEW ELECTRICAL ROOM | TSTAT | ROOF | 1000 | 0.65 | 1565 | DIRECT | 1/4 | ECM | 115/1/60 | YES | POWER ROOF VENTILATOR | |

NOTES: 1. TSTAT=THERMOSTAT; SW=SWITCH; SP=STATIC PRESSURE, TD=WITH 15 MINUTE TIME DELAY

- 2. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH FOR ALL EXHAUST FANS, COORDINATING REQUIREMENTS AND INTERLOCKS
- 3. REFER TO CONTROL DIAGRAMS FOR SPECIFIC SEQUENCES OF OPERATION AND INTERLOCK ARRANGEMENTS
 4. INSTALL FAN UNDER ADD ALTERNATE #1

* REPLACE WITH NEW SS.
THROUGH—WALL FLASHING

BASE FLASHING

3X3 FIBER CANT.

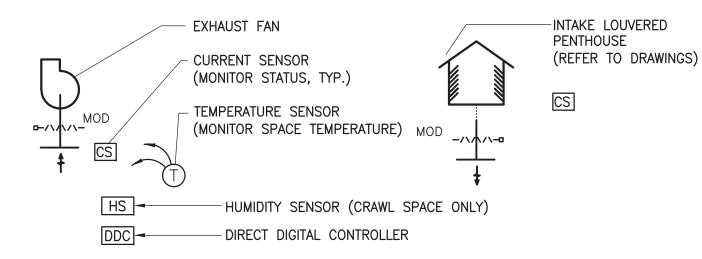
1-1/2"-0" TAPERED INSUL. 1'-6"
MIN. FROM WALL

1" INSUL.

2.3" INSUL.

EXT. DECK VERIFY TYPE

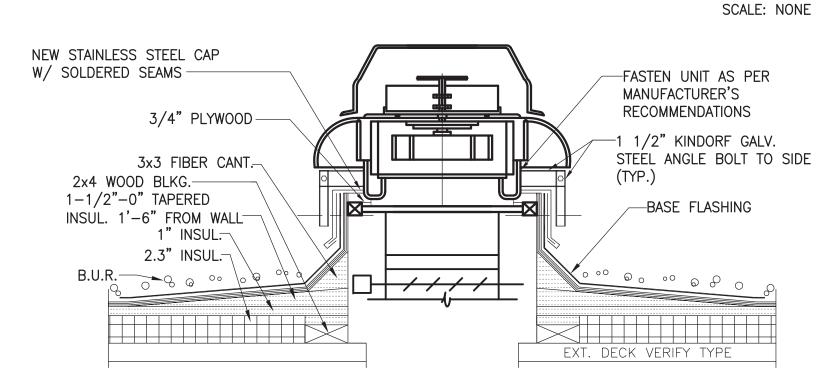
TYPICAL COUNTER FLASHING
SCALE: NONE



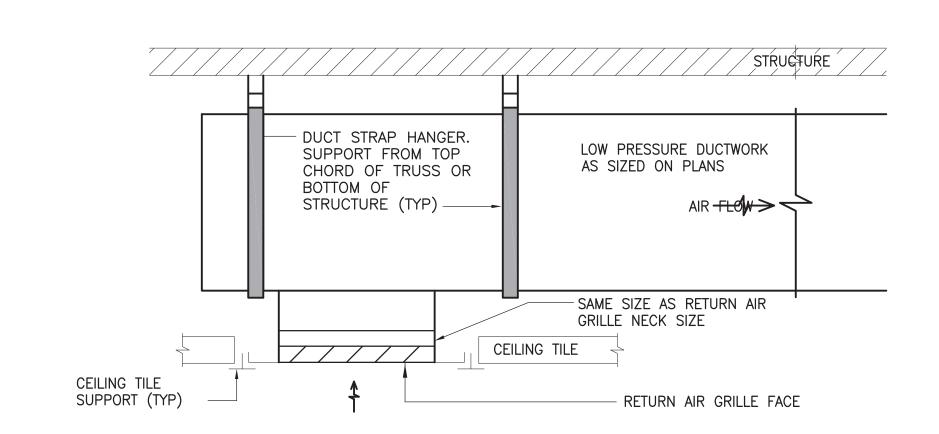
SEQUENCE OF OPERATION

- 1. VENTILATION: SPACE TEMPERATURE SENSOR SHALL ON A RISE IN TEMPERATURE TO 90°F (ADJ), ENERGIZE EXHAUST FAN. IN A FALL IN TEMPERATURE TO 85°F (ADJ), THE EXHAUST FAN SHALL DE-ENERGIZE. PROVIDE A 5°F DEADBAND BETWEEN ENERGIZING/DE-ENERGIZING FAN TO PREVENT SHORT CYCLING.
- 2. EMS: HIGH (105°F) AND LOW (40°F) TEMPERATURE ALARMS SHALL BE ANNUNCIATED AT THE CENTRAL ENERGY MANAGEMENT SYSTEM COMPUTER. EMS SHALL MONITOR FAN STATUS.
- 3. THE ENERGY MANAGEMENT SYSTEM (EMS) SHALL BE MANUFACTURED BY HI SOLUTIONS, RELIABLE CONTROL, OR SCHNEIDER ELECTRIC STRUXUREWARE/CONTINUUM; APPROVED MANUFACTURERS OF AUTOMATIC TEMPERATURE CONTROLS (ATC) COMPONENTS ARE INVENSYS, SIEMENS, JOHNSON, HONEYWELL, KELE, KREUTER, BELIMO, FUNCTIONAL DEVICES (RIB), ACI, BAPI, SERTA AND SCHNEIDER ELECTRIC. CONTROLS SYSTEMS SHALL BE INSTALLED BY PERFORMANCE CONTROLS, BUILDING AUTOMATION SERVICES, ENGINEERED SERVICES, CONTROL SOURCES, OR PRITCHETT CONTROLS.

TYPICAL ELECTRICAL EQUIPMENT ROOM CONTROL DIAGRAM



TYPICAL CENTRIFUGAL POWER ROOF VENTILATOR DETAIL SCALE: NONE



TYPICAL CEILING AIR DEVICE DETAIL
SCALE: NONE

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ADD ALTERNATE #1 DETAILS
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