KNOX BOX NOTE: A KNOX BOX SHALL BE PROVIDED ON THE OUTSIDE OF THE BUILDING TO STORE KEYS TO TENANT SPACES AND SPRINKLER ROOM. TO BE USED BY THE FIRE DEPARTMENT ONLY IN CASE OF AN EMERGENCY.

GENERAL NOTES:

PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE TO EXAMINE THE EXISTING CONDITIONS, ANY DISCREPANCIES ARE TO BE POINTED OUT PRIOR TO SUBMITTING BID OR SHALL BE NOTED IN THE BID FORMS. NO PLEA OF IGNORANCE OF EXISTING CONDITIONS SHALL JUSTIFY REQUESTS FOR ADDITIONAL FUNDS. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF EXISTING CONDITIONS.

PLANS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANY WORK EXHIBITED IN EITHER OF THEM WHETHER IN THE OTHER OR NOT, IS TO BE EXECUTED ACCORDING TO THE TRUE INTENT AND MEANING THEREOF THE SAME AS IF SET FORTH IN ALL. PROVIDED, HOWEVER, THAT SHOULD ANY LAW, ORDINANCE, OR REGULATION OF STATE, OR COUNTY, OR CITY, IN WHICH THE WORK IS TO BE DONE, BE INVIOLATION OF THE REQUIREMENTS OF ANY SUCH LAW OR ORDINANCES, OR REGULATION, THEN THE REQUIREMENT OF SUCH LAWS, ORDINANCES, OR REGULATIONS SHALL PREVAIL AND SHALL BE COMPLIED WITH BY CONTRACTOR AS A PART OF HAS WORK CALLED FOR AND NO EXTRA COMPENSATION SHALL BE ALLOWED THEREFORE.

ALL CONTRACTORS SHALL VISIT AND CAREFULLY EXAMINE SITE OF PROPOSED WORK AND ACQUAINT THEMSELVES WITH THE CONDITIONS UNDER WHICH WORK WILL BE PERFORMED AND NATURE AND EXTENT OR WORK INVOLVED.

BEFORE COMMENCEMENT OF WORK THE GENERAL CONTRACTOR AND REQUIRED SUBCONTRACTORS SHALL VERIFY DIMENSIONS AND CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS, ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

THE GENERAL CONTRACTOR SHALL MEET WITH THE BUILDING OWNER TO VERIFY AND REVIEW HIS REGULATIONS AND BUILDING PROCEDURES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING ELEVATOR USE FOR DELIVERY OF MATERIALS WITH THE LANDLORD AND SHALL INCLUDE ANY FEE FOR THE OPERATION OF SAME IN HIS BID. THE INSTALLATION OF TEMPORARY BARRICADES IN PUBLIC AREAS OR ON THE EXTERIOR OF THE BUILDING MUST MEET WITH THE

SUBSTITUTIONS OF MATERIALS OR EQUIPMENT WHERE SPECIFIED HEREIN OR ON DRAWINGS ARE NOT ACCEPTABLE UNLESS WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECTS.

ALL MATERIALS, METHODS OF INSTALLATION, AND FINISHING OF CONSTRUCTION SYSTEMS (PARTITIONS, CEILING, DOORS, FRAMES, FLOORS, ETC.) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE EXPECTED

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DAILY REMOVAL OF CONSTRUCTION DEBRIS AND SHALL THOROUGHLY CLEAN AND REMOVE ALL DEBRIS UPON COMPLETION OF FINAL WORK INCLUSIVE OF ALL TRADE DESIGNATED HEREIN AS N.I.C.

GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS, WHETHER HIS OWN, OR THOSE ON SEPARATE CONTRACT.

CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR LANDLORD OF ANY UNFORESEEN JOB CONDITIONS WHICH MIGHT AFFECT PROJECT COSTS. EXTRA WORK AND/OR COSTS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION OF SUCH WORK.

NOTHING IN THESE DRAWINGS SHALL IMPOSE LIABILITY ON THE ARCHITECT FOR CLAIMS, LAWSUITS. EXPENSE, OR DAMAGES ARISING FROM OR ANY MANNER RELATED TO THE EXPOSURE TO, OR THE HANDLING, MANUFACTURE, OR DISPOSAL OF ASBESTOS, ASBESTOS PRODUCT, OF HAZARDOUS WASTE OR ANY OF ITS VARIOUS FORMS, (IF THEY EXIST) DEFINED BY THE ENVIRONMENTAL PROTECTION

THE GENERAL CONDITIONS OF THE 'CONTRACT FOR CONSTRUCTION' A.I.A. DOCUMENT A 201. LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS. (APPLY TO THIS WORK AND ARE MADE A PART OF THIS CONTRACT TO THE SAME EXTENT AS IF WRITTEN OUT IN FULL.)

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOR VERIFYING ALL DIMENSIONS AND CONDITIONS INCLUDING OPENINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL PLANS. ANY DISCREPANCY IN PLANS TO BE BROUGHT TO THE ARCHITECTS ATTENTION BEFORE

SUB CONTRACTORS SHALL FULLY COMPLY WITH ALL LOCAL BUILDING ORDINANCES AND CODE REQUIREMENTS. ANY WORK KNOWINGLY PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS AND ORDINANCES CONT. SHALL ASSUME FULL RESPONSIBILITY FOR SUCH WORK. VISIT PREMISES: NOTE CONDITIONS PERTAINING TO WORK TO BE DONE.

INSURANCE: SUB CONTRACTORS TO CARRY AND PAY FOR WORKMAN'S COMPENSATION INSURANCE, COMPREHENSIVE AUTO LIAB. INSUR. GENERAL LIABILITY INSURANCE, CONTRACTUAL LIABILITY INSUR. (EITHER SEPARATE OR COMBINED WITH GENERAL LIABILITY COVERING ANY HOLD HARMLESS WORDING IN THE AGREEMENT BETWEEN OWNER AND CONT. INCLUDING BUT NOT LIMITED TO THE ILLINOIS SCAFFOLD ACT AND PROTECTIVE LIABILITY INSUR. ALL FOR THE OWNERS, ARCHITECTS AND ENGINEERS, ALL POLICIES SHALL BE AN INSUR. CO. AGREEABLE TO

DAMAGE TO CURRENT WORK: CONTRACTOR SHALL ADEQUATELY PROTECT PRECEDING AND EXISTING WORK FROM DAMAGE CAUSED BY HIS OPERATION BREAKAGE AND DAMAGE SHALL BE REPAIRED AT NO COST TO THE OWNER.

GUARANTEE AND WARRANTY: CONTRACTOR SHALL WARRANT THAT ALL WORK AND MATERIALS COMPLY WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL BE OF GOOD QUALITY FREE OF DEFECTS AND POOR WORKMANSHIP FOR A PERIOD OF (1) YEAR AFTER FINAL

CLEANUP: EACH CONTRACTOR SHALL REMOVE FROM PREMISES ALL RUBBISH SCRAP ETC. ACCUMULATED FROM HIS OPERATION

A NEW CULTIVATION FACILITY FOR CRAFT GROW 740 SCHNEIDER DR. SOUTH ELGIN, IL 60177

251'-0"

POTTING AREA

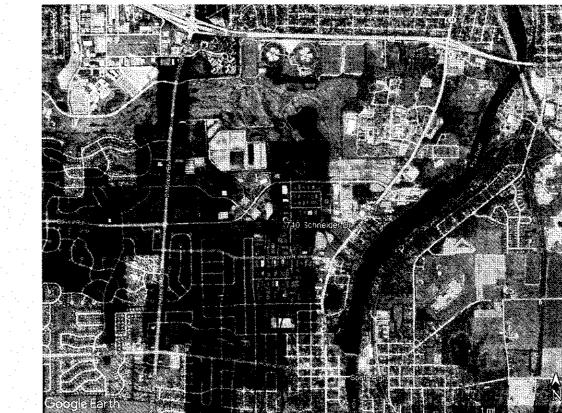
_MOST REMOTE LOCATION

POTTING AREA

MECHANICAL CORRIDOR



PROJECT LOCATION



SW- My Hirshor Firsh I Floor

SITE LOCATION MAP

BUILDING HEIGHT LIMITATIONS: ALLOWABLE HEIGHT: 55 FT. ACTUAL HEIGHT = $\pm 20'-0"$ FIRE RESISTANCE RATING RECUREMENTS FOR BUILDING ELEMENTS:
BUILDING ELEMENT REQUIRED STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES EXTERIOR BEARING WALLS INTERIOR BEARING WALLS INTERIOR NON-BEARING WALLS FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS ROOF CONSTRUCTION

BUILDING AREA: TOTAL ONE-STORY GROSS BUILDING AREA = 40,139 S.F.

INCLUDING SUPPORTING BEAMS AND JOISTS FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS: EXTERIOR BEARING/NON-BEARING WALLS 5-10 FT 10-30 FT >30 FT

INTERIOR FINISHES: EXIT ENCLOSURES/PASSAGEWAYS

BUILDING CODE INFORMATION:

<u>JURISDICTION:</u> SOUTH ELGIN, ILLINOIS — KANE COUNTY

2017 NFPA 70 NATIONAL ELECTRICAL CODE

2018 INTERNATIONAL PROPERTY MAINTENANCE CODE

2018 INTERNATIONAL ENERGY CONSERVATION CODE

2015 INTERNATIONAL GREEN CONSTRUCTION CODE

APPLICABLE CONSTRUCTION CODES:

2018 INTERNATIONAL BUILDING

2018 INTERNATIONAL FIRE CODE

2018 INTERNATIONAL MECHANICAL CODE

2018 INTERNATIONAL FUEL GAS CODE

1997 ILLINOIS ACCESSIBILITY CODE

USE GROUP AND OCCUPANCY:

ALLOWABLE AREA: UNLIMITED AREA

CLASSIFICATION: F-1 (FACTORY)

PROJECT SCOPE:

EXISTING PRE-ENGINEERED METAL BUILDING - INTERIOR BUILD-OUT AND

REFER TO THE RECORD SET OF CIVIL PLANS PREPARED FOR THE ORIGINAL BUILDING CONSTRUCTION BY OTHERS FOR PARKING, ADA ACCESSIBILITY,

RENOVATIONS TO BE USED AS A CULTIVATION FACILITY.

SIGNAGE, AND ACCESSIBLE ROUTE TO ACCESSIBLE ENTRANCE.

2018 INTERNATIONAL PLUMBING CODE AND 2014 STATE OF ILLINOIS

AND ALL LOCALLY ADOPTED AMENDMENTS TO THE ABOVE LISTED CODES

CONSTRUCTION TYPE: II B (NON-COMBUSTIBLE / UNPROTECTED, FULLY

OCCUPANCY LOAD FACTORS: AGRICULTURE = 300 S.F. PER OCCUPANT BUSINESS OFFICE AREAS = 100 S.F. PER OCCUPANT

LOAD FACTOR OCCUPANTS

 2 EXITS REQUIRED MINIMUM EGRESS DIMENSIONS: SEE LIFE SAFETY PLAN THIS SHEET FOR EGRESS TRAVEL DISTANCES MIN. CORRIDOR WIDTH = 44 INCHES MIN. DOOR WIDTH = 32 INCHES CLEAR EGRESS WIDTH PER OCCUPANT LOAD = 152 OCCUPANTS x 0.15 = 22.8" (256" PROVIDED)

CEILING HEIGHT = 7'-6'' MIN. SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY SHALL HAVE A MAX. COMMON PATH OF EGRESS TRAVEL DISTANCE = 100'-0" (PER TABLE 1006.2.1) THE ACTUAL MAX. = 91'-0"MAX EXIT ACCESS TRAVEL DISTANCE = 250 FEET FOR ONE-STORY BLDGS. WITH SPRINKLER SYSTEM. (PER TABLE 1017.2) THE ACTUAL

• DEAD END CORRIDORS = 50 FEET MAX. WITH SPRINKLER SYSTEM

REQUIRED NUMBER OF PLUMBING FIXTURES: USE GROUP F-1 (FACTORY / INDUSTRIAL) PER 2018 IBC TABLE 2902.1

REQUIRED =1 FOR EVERY 100 OCC. PROVIDED = 6 W.C. & 1 URINAL REQUIRED = 1 FOR EVERY 100 OCC.LAVATORIES: PROVIDED = 3 LAVATORIESREQUIRED = 1 FOR EVERY 400 OCC.

PROVIDED = 2 DRINKING FOUNTAINS, ONE ADA ACCESSIBLE SERVICE SINK:

REQUIRED = 1PROVIDED = 3

PAULA PSENKA

₹**6**₹ 001-015371,

T -1 TITLE SHEET / CODE INFORMATION / LIFE SAFETY PLAN

A-3 WALL TYPE SECTIONS / GENERAL NOTES

A-1 FIRST FLOOR PLAN A-2 DOOR SCHEDULE / DOOR TYPES / MISC. DETAILS

<u>MECHANICAL</u> M-1 FLOOR PLAN HVAC DUCTWORK M-1.1 FLOOR PLAN HVAC PIPING M-1.2 FLOOR PLAN SPLIT SYSTEMS

M-2 HVAC NOTES AND SCHEDULES M-2.1 HVAC SCHEDULES

E-1 ELECTRICAL PLAN E-1.1 RACK FAN ELECTRICAL PLAN TIER-1 E-1.2 RACK FAN ELECTRICAL PLAN TIER-2 E-1.3 RACK FAN ELECTRICAL PLAN TIER-3 E-1.4 RACK FAN ELECTRICAL PLAN TIER-4 E-1.5 OSCILLATING FAN ELECTRICAL TIER-2 E-1.6 HVAC ELECTRICAL PLAN E-2 GENERAL LIGHTING PLAN E-2.1 GROW LIGHTING PLAN TIER-1 E-2.2 GROW LIGHTING PLAN TIER-2 E-2.3 GROW LIGHTING PLAN TIER-3 E-2.4 GROW LIGHTING PLAN TIER-4 E-2.1A GROW LIGHTING WIRING PLAN TIER-1 E-2.2A GROW LIGHTING WIRING PLAN TIER-2 E-2.3A GROW LIGHTING WIRING PLAN TIER-3 E-2.4A GROW LIGHTING WIRING PLAN TIER-4 E-3 ELECTRICAL SCHEDULES E-3.1 ELECTRICAL SCHEDULES

E-3.2 ELECTRICAL SCHEDULES E-3.3 ELECTRICAL SCHEDULES E-3.4 ELECTRICAL SCHEDULES PLUMBING P-1 FLOOR PLAN DOMESTIC

P-2 FLOOR PLAN SANITARY P-3 GAS PIPING P-4 GENERAL NOTES DETAILS AND SCHEDULES

GENERAL NOTE: THE FOLLOWING WORK IS DEFERRED AND DRAWINGS, SPECS, AND ANY REQUIRED SHOP DRAWINGS WILL BE SUBMITTED BY OTHERS UNDER SEPARATE PERMITS SPRINKLER SYSTEMS FIRE ALARM SYSTEMS EXTERIOR SIGNAGE

SHEET ! OF I

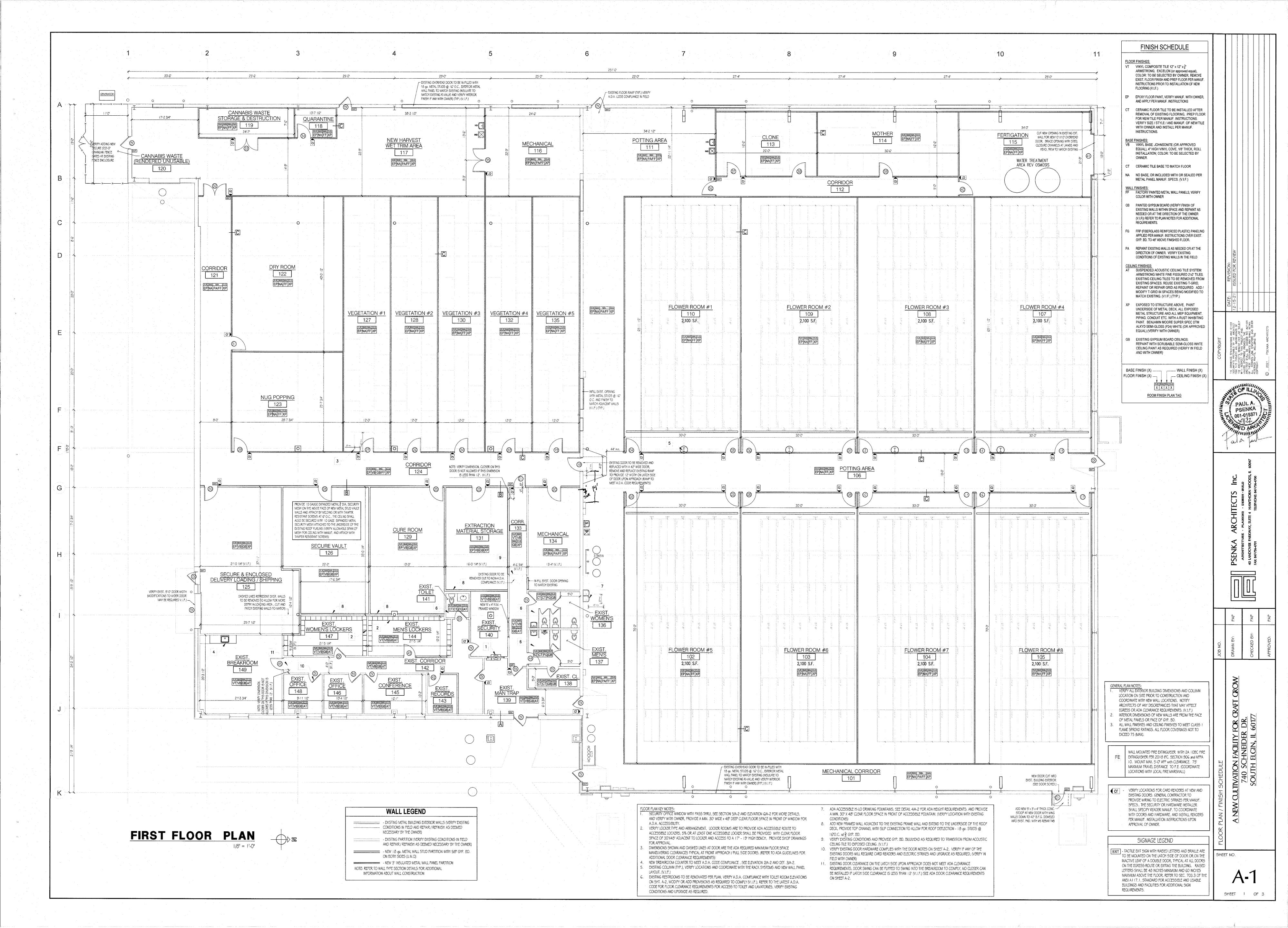
SHEET NO.

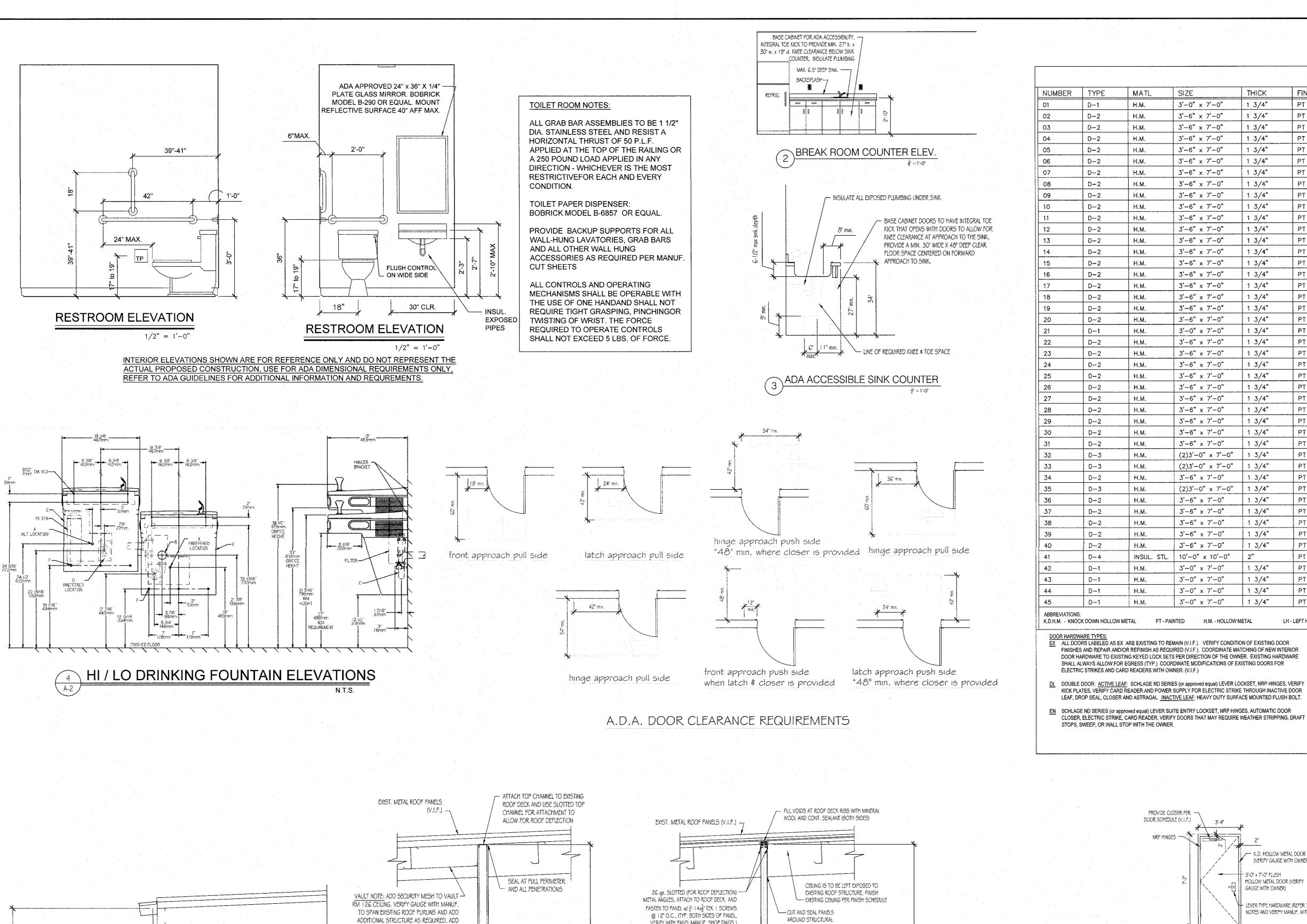
LIFE SAFETY EGRESS PLAN

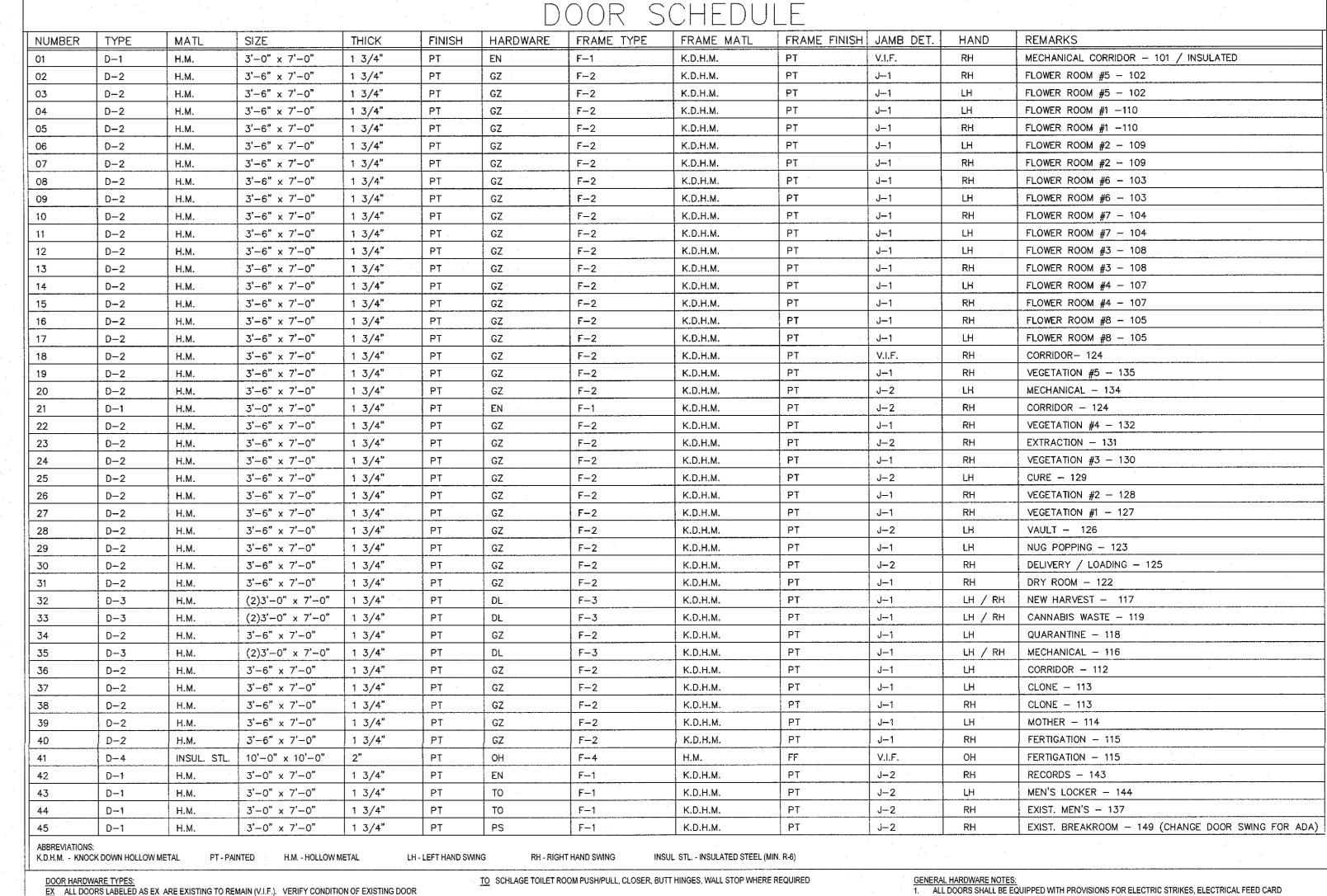
SECURE VAULT



VEGETATION #1 VEGETATION #2 VEGETATION #3 VEGETATION #4 VEGETATION #5







PA SCHLAGE ND SERIES (or approved equal) PRIVACY LEVER LOCKSET, BUTT HINGES, WALL STOP

PS SCHLAGE ND SERIES (or approved equal) PASSAGE LEVER LOCKSET. BUTT HINGES. WALL STOP

ONLY (VERIFY WITH OWNER)

HEAD SEALS. (VERIFY HARDWARE WITH OWNER typ.)

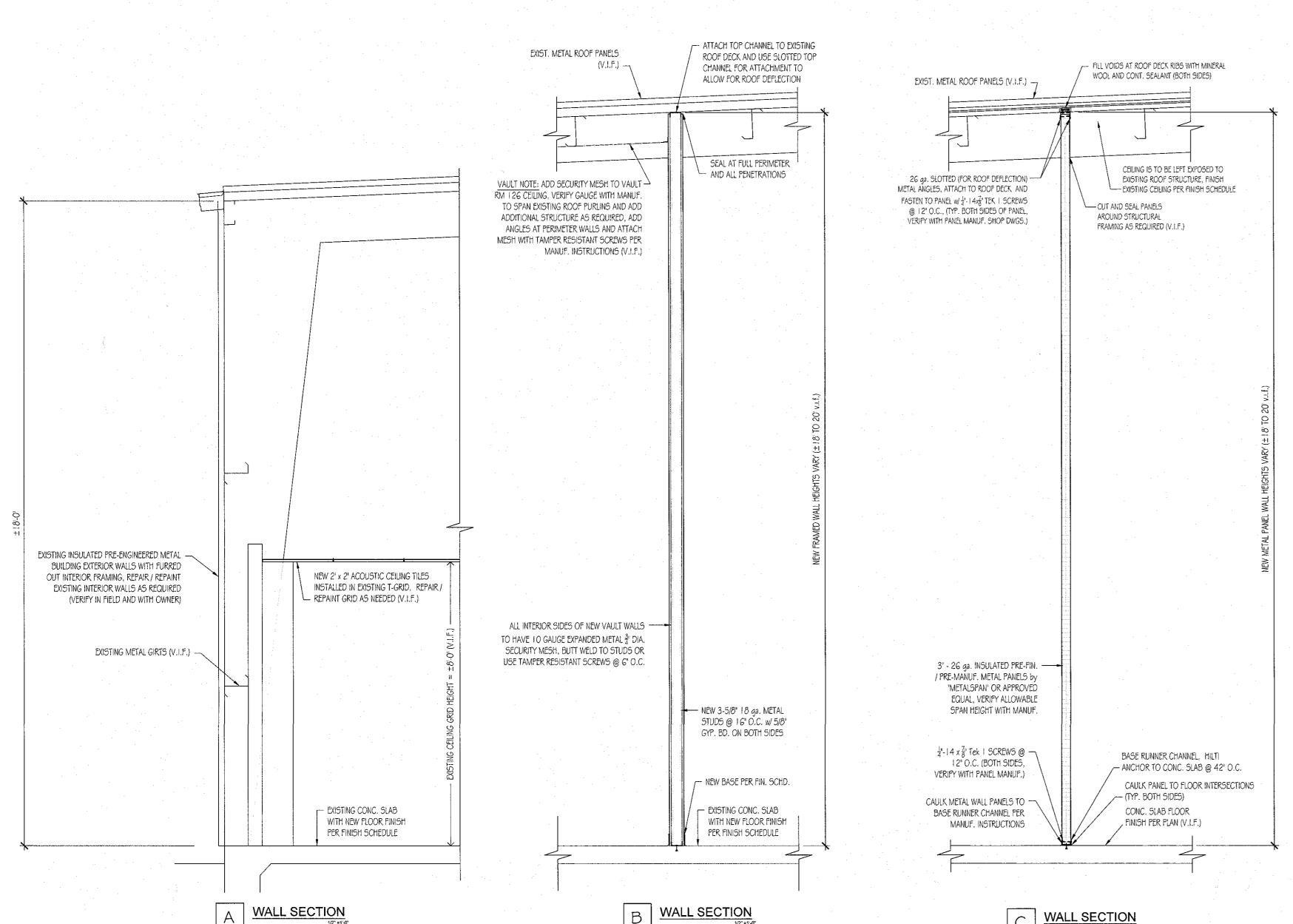
IF CARD READER WITH ELECTRIC STRIKE IS REQUIRED BY OWNER.

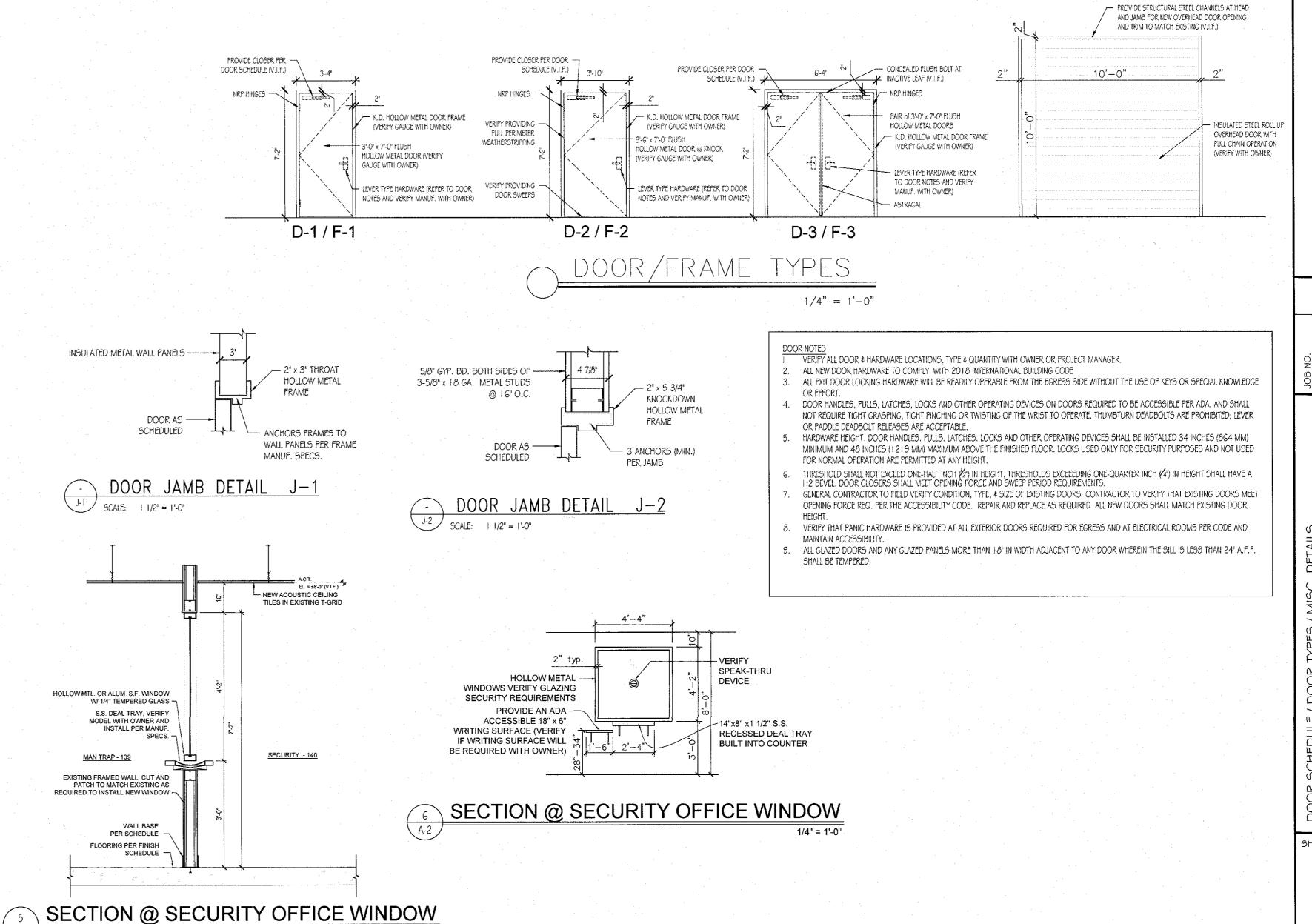
OH OVERHEAD DOOR WITH MANUAL PULL CHAIN OPERATION, LOCKING MECHANISM OPERATING FROM INSIDE

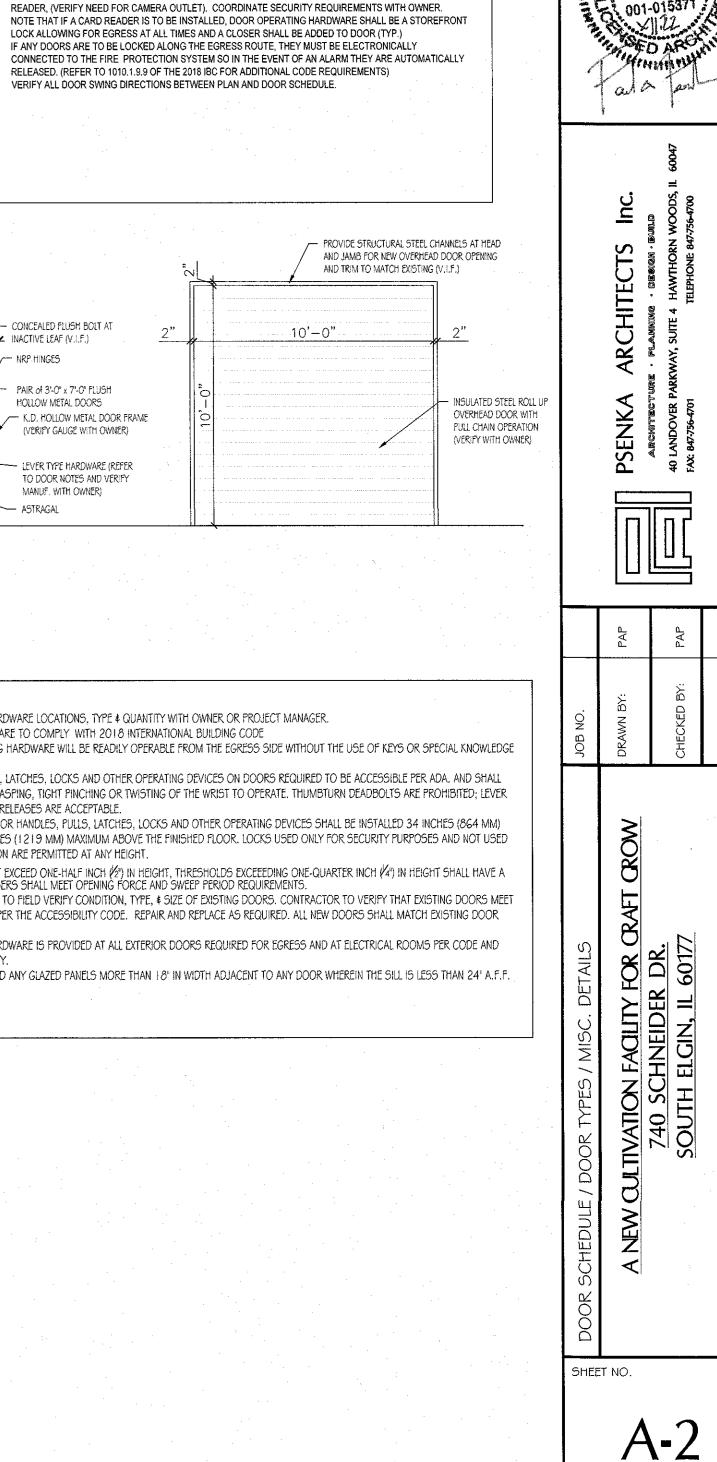
PLATES, ELECTRIC STRIKE w/ CARD READER, DROP SEAL AND GROW ZONE CLOSER. PROVIDE DOOR JAMB &

DP DOUBLE DOOR WITH PANIC PUSH BAR HARDWARE ON ACTIVE LEAF, FLUSH BOLT ON INACTIVE LEAF, VERIFY

GZ SCHLAGE ND SERIES (or approved equal) STORE ROOM LEVER LOCKSET, STAINLESS NRP HINGES, KICK







SHEET 2 OF 3

PSENKA

RELEASED. (REFER TO 1010.1.9.9 OF THE 2018 IBC FOR ADDITIONAL CODE REQUIREMENTS)

VERIFY ALL DOOR SWING DIRECTIONS BETWEEN PLAN AND DOOR SCHEDULE.

PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE TO EXAMINE THE EXISTING CONDITIONS, ANY DISCREPANCIES ARE TO BE POINTED OUT PRIOR TO SUBMITTING BID OR SHALL BE NOTED IN THE BID FORMS. NO PLEA OF IGNORANCE OF EXISTING CONDITIONS SHALL JUSTIFY REQUESTS FOR ADDITIONAL FUNDS. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF EXISTING CONDITIONS.

PLANS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. ANY WORK EXHIBITED IN EITHER OF THEM WHETHER IN THE OTHER OR NOT, IS TO BE EXECUTED ACCORDING TO THE TRUE INTENT AND MEANING THEREOF THE SAME AS IF SET FORTH IN ALL. PROVIDED, HOWEVER, THAT SHOULD ANY LAW, ORDINANCE, OR REGULATION OF STATE, OR COUNTY, OR CITY, IN WHICH THE WORK IS TO BE DONE, BE INVIOLATION OF THE REQUIREMENTS OF ANY SUCH LAW OR ORDINANCES, OR REGULATION, THEN THE REQUIREMENT OF SUCH LAWS, ORDINANCES, OR REGULATIONS SHALL PREVAIL AND SHALL BE COMPLIED WITH BY CONTRACTOR AS A PART OF HAS WORK CALLED FOR AND NO EXTRA COMPENSATION SHALL BE ALLOWED THEREFORE.

ALL CONTRACTORS SHALL VISIT AND CAREFULLY EXAMINE SITE OF PROPOSED WORK AND ACQUAINT THEMSELVES WITH THE CONDITIONS UNDER WHICH WORK WILL BE PERFORMED AND NATURE AND EXTENT OR WORK INVOLVED.

BEFORE COMMENCEMENT OF WORK THE GENERAL CONTRACTOR AND REQUIRED SUBCONTRACTORS SHALL VERIFY DIMENSIONS AND CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS, ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

THE GENERAL CONTRACTOR SHALL MEET WITH THE BUILDING OWNER TO VERIFY AND REVIEW HIS REGULATIONS AND BUILDING PROCEDURES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING ELEVATOR USE FOR DELIVERY OF MATERIALS WITH THE LANDLORD AND SHALL INCLUDE ANY FEE FOR THE OPERATION OF SAME IN HIS BID. THE INSTALLATION OF TEMPORARY BARRICADES IN PUBLIC AREAS OR ON THE EXTERIOR OF THE BUILDING MUST MEET WITH THE OWNER'S APPROVAL.

SUBSTITUTIONS OF MATERIALS OR EQUIPMENT WHERE SPECIFIED HEREIN OR ON DRAWINGS ARE NOT ACCEPTABLE UNLESS WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE ARCHITECTS AND/OR OWNERS AGENT

ALL MATERIALS, METHODS OF INSTALLATION, AND FINISHING OF CONSTRUCTION SYSTEMS (PARTITIONS, CEILING, DOORS, FRAMES, FLOORS, ETC.) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE EXPECTED ALL DOORS USED IN CONNECTION WITH EXITS, SHALL BE SO ARRANGED AS TO BE READILY OPENED WITHOUT THE USE OF A KEY, FROM THE SIDE FROM WHICH EGRESS IS MADE.

ALL WALL FINISHES AND CEILING TILE FINISHES TO MEET CLASS 1 FLAME SPREAD RATINGS. ALL FLOOR COVERINGS NOT TO EXCEED 75 (MAX).

CONTRACTOR AND HIS SUBCONTRACTORS SHALL TURN THE PROJECT OVER TO OWNER: FREE FROM ALL CONSTRUCTION DEBRIS; MATERIAL AND EQUIPMENT. ALL INTERIOR GLASS FREE FROM LABELS, AND CLEANED ON BOTH SIDES. ALL MILLWORK AND BUILT-INS FREE OF DIRT, GREASE, AND OTHER FOREIGN MATERIALS. ALL RESILIENT FLOORINGS MOP CLEANED. VINYL WALL COVERINGS FREE OF DIRT AND OTHER FOREIGN MATERIALS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE DAILY REMOVAL OF CONSTRUCTION DEBRIS AND SHALL THOROUGHLY CLEAN AND REMOVE ALL DEBRIS UPON COMPLETION OF FINAL WORK INCLUSIVE OF ALL TRADE DESIGNATED HEREIN AS N.I.C.

WITH THE WORK OF OTHER CONTRACTORS, WHETHER HIS OWN, OR THOSE ON SEPARATE CONTRACT.

CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR LANDLORD OF ANY UNFORESEEN JOB CONDITIONS WHICH MIGHT AFFECT PROJECT COSTS. EXTRA WORK AND/OR COSTS MUST BE APPROVED IN WRITING PRIOR TO

GENERAL CONTRACTOR SHALL COORDINATE HIS WORK

CONSTRUCTION OF SUCH WORK.

NOTHING IN THESE DRAWINGS SHALL IMPOSE LIABILITY ON THE ARCHITECT FOR CLAIMS, LAWSUITS, EXPENSE, OR DAMAGES ARISING FROM OR ANY MANNER RELATED TO THE EXPOSURE TO, OR THE HANDLING, MANUFACTURE, OR DISPOSAL OF ASBESTOS, ASBESTOS PRODUCT, OF HAZARDOUS WASTE OR ANY OF ITS VARIOUS FORMS, (IF THEY EXIST) DEFINED BY THE ENVIRONMENTAL

ALL WORK IN THIS CONTRACT SHALL BE GUARANTEED AGAINST ANY DEFECTIVE MATERIALS OF WORKMANSHIP FOR ONE YEAR AFTER DATE OF FINAL COMPLETION. ANY DEFECTIVE MATERIAL OR WORKMANSHIP SHALL BE REPLACED AT NO COST TO THE OWNER.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUB CONTRACT TRADES SUBMISSION OF 'AS BUILT' DRAWINGS UPON COMPLETION OF THE PROJECT.

THE GENERAL CONDITIONS OF THE 'CONTRACT FOR CONSTRUCTION' A.I.A. DOCUMENT A 201, LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS. (APPLY TO THIS WORK AND ARE MADE A PART OF THIS CONTRACT TO THE SAME EXTENT AS IF WRITTEN OUT IN FULL.)

CONSTRUCTION NOTES:

PROTECTION

DO NOT SCALE DRAWINGS; DIMENSIONS SHALL GOVERN. LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS.

ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL ORDINANCES AND BUILDING CODES.

SPECIFIC WALL CONSTRICTION TYPES ARE INDICATED ON THESE PLANS ONLY. USE CONSTRUCTION PLANS TO VERIFY WALL TYPES FOR CONSTRUCTION. NOTIFY

ARCHITECT FOR CLARIFICATION IF WALL TYPE IS UNCLEAR.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR
THE PROCUREMENT OF ALL REQUIRED BUILDING PERMITS
AND THE PAYMENT OF ALL APPLICABLE FEES.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING OF PARTITION WALLS AND DOOR OPENINGS, AS REQUIRED PER ADOPTED CODES AND STRUCTURAL

LIMITATIONS OF PARTITION FRAMING.

ALL PARTITION ENDS TO BE FLUSH AND STRAIGHT WITH METAL CORNER BEADS. CEMENT, TAPE, AND SPACKLE DRYWALL PARTITION ENDS.

ALL EXISTING WALLS, COLUMNS, ETC., THAT ARE TO REMAIN SHALL BE PATCHED AND PLASTERED AS REQUIRED TO MAKE THEM STRAIGHT, TRUE, AND FLUSH WITH NEW CONSTRUCTION, AND SUITABLE FOR A GOOD PAINT JOB. SAME SHALL MATCH NEW WORK.(IN AREAS OF REMODELING ONLY)

WHERE NEW WORK CONNECTS WITH EXISTING, THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING, AND PATCHING, HE SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS FOR THIS WORK, WHETHER OR NOT SHOWN AND/OR SPECIFIED. ALL CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PROPERLY MEMBERED/ALIGNED SO AS TO LEAVE NO EVIDENCE OF REMODELING AND DEMOLITION WORK ANY EXISTING PARTITION THAT IS NOT SHOWN ON PLANS IS TO BE DEMOLISHED AND REMOVED. V.I.F.

GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING AND PAINTING AFTER INSTALLATION OF MILLWORK.
ALL NEW WALLS ARE TO ALIGN AND TO BE LEVEL WITH EXISTING ADJACENT WALLS AND CONDITIONS UNLESS NOTED OTHERWISE.

NEW DOORS AND FRAMES SHOULD BE IN ACCORDANCE WITH BUILDING STANDARDS. WHERE EXISTING DOORS ARE SPECIFIED TO REMAIN IN DOOR SCHEDULE, THE GENERAL CONTRACTOR PRIOR TO BIDDING SHALL FIELD INSPECT THESE DOORS TO ASCERTAIN THEIR CONDITION AND SUITABILITY FOR REUSE. DEFECTIVE OR DAMAGED DOORS, INCLUSIVE OF HARDWARE AND FRAMES, SHALL BE REPAIRED TO INSURE THEIR PROPER OPERATION AND SATISFACTORY APPEARANCE. ALL EXISTING DOORS AND FRAMES SHALL BE SANDED AND FINISHED PER FINISH PLAN SPECIFICATIONS.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL HARDWARE WITH OTHER TRADES.

THE HARDWARE SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING THE PROPER LOCK CYLINDERS AS REQUIRED TO CONFORM TO THE BUILDING OWNER'S MASTER KEY SYSTEM.

THE HARDWARE SUPPLIER SHALL FURNISH THE DOOR AND FRAME MANUFACTURERS WITH THE NECESSARY TEMPLATES AND SPECIFICATIONS TO ENSURE THE PROPER INSTALLATION OF HARDWARE.

GENERAL CONTRACTOR TO PROVIDE AND INSTALL
BUILDING STANDARD HAT SHELF IN CLOSETS INDICATED.
SUPPORT AS REQUIRED. ALL SHELVES TO HAVE
HARDWOOD EDGES AND BE PAINTED TO MATCH ADJACENT
WALLS. PROVIDE CENTER SUPPORT IF REQUIRED.

ALL BUILT-IN PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO SUPPLY ALL NECESSARY INFORMATION FOR CUT-OUTS TO BE PERFORMED BY CABINET CONTRACTOR.

ALL NON BUILT-IN PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL REFER TO THE PLUMBING PLANS AND SPECIFICATIONS FOR ALL PLUMBING WORK ON THIS CONSTRUCTION PROJECT. CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN PLUMBING PLANS AND ARCHITECTURAL PLANS OR ANY DIFFERENCES BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE AS-BUILT CONDITIONS PRIOR TO COMMENCING WORK. THE MECHANICAL CONTRACTOR SHALL REFER TO THE HVAC PLANS AND SPECIFICATIONS FOR ALL HVAC WORK ON THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO INSPECT THE EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND HVAC PLANS OR ANY DIFFERENCES BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE AS-BUILT CONDITIONS PRIOR TO COMMENCING WORK.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING OFF SUPPLY AND RETURN GRILLES, DIFFUSERS, AND DUCTS TO KEEP DUST FROM ENTERING INTO THE BUILDING SYSTEM.

THE ELECTRICAL CONTRACTOR SHALL REFER TO THE POWER AND LIGHTING PLANS AND SPECIFICATIONS FOR ALL ELECTRICAL WORK ON THIS CONSTRUCTION PROJECT. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO INSPECT THE EXISTING CONDITIONS. .NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND POWER / LIGHTING ELECTRICAL PLANS OR ANY DIFFERENCES BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE AS-BUILT CONDITIONS PRIOR TO COMMENCING WORK.

ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES, ACCEPTED BY THE ARCHITECT, AND LEFT IN PERFECT OPERATING CONDITION.

OSHA RULES REGULATIONS AND REQUIREMENTS ARE A PART OF THIS PROJECT. ELECTRICAL / MECHANICAL / PLUMBING CONTRACTORS SHALL FOLLOW THEM ALONG WITH FEDERAL, STATE AND LOCAL REQUIREMENTS FOR THE SAFETY OF WORKERS ON THE JOB AND PASSERS - BY. OMISSIONS FROM THE ARCHITECT'S DRAWINGS OR SPECIFICATIONS OF ANY ITEM NECESSARY FOR THE PROPER COMPLETION AND OPERATION OF THE WORK

SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING SAME WITHOUT ANY ADDITIONAL COST TO THE OWNER REVIEW ALL CONSTRUCTION DOCUMENTS AND COORDINATE EACH INSTALLATION TO AVOID ALL CONFLICTS.

MILLWORK NOTES:

ELEC. CONTRACTOR TO WIRE AND BALANCE ALL CIRCUITS TO NEW LIGHTING AND POWER OUTLETS

ALL CABINET WORK SHALL BE DONE IN ACCORDANCE WITH ARCHITECTURAL WOODWORKING INSTITUTE QUALITY STANDARD FOR 'CUSTOM GRADE' (AS APPLIC.)

CABINET CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN

THE FIELD FOR BUILT-IN WORK PRIOR TO FABRICATION.

ALL CUSTOM CABINET WORK TO BE FURNISHED, DELIVERED, AND INSTALLED BY THE CABINET CONTRACTOR.

ALL WOOD BLOCKING TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. CONTRACTOR TO COORDINATE WITH MILLWORK CONTRACTOR FOR TYPE AND LOCATIONS REQUIRED.

THE CABINET CONTRACTOR SHALL SHOP-INSTALL, WHERE POSSIBLE ALL ELECTRICAL FIXTURES, SWITCHES, OUTLETS, ETC., OR ALL NECESSARY CUT-OUTS. THIS WORK SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.

WHERE ELECTRICAL WORK IS SPECIFIED, IN CABINET WORK, LAMPS, AND FIXTURES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CUT-OUTS FOR SWITCHES, OUTLETS, ETC., AS REQUIRED, ARE BY THE CABINET CONTRACTOR AND TO BE COORDINATED WITH THE

MILLWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WALL COVERING IN OR ON CABINET WORK. UNLESS NOTED OTHERWISE.

ALL WOOD SURFACES TO BE PAINTED SHALL BE PROPERLY SEALED, SANDED, AND SHOP PRIMED TO RECEIVE SHOP FINISH COATS BY THE CABINET CONTRACTOR. EDGES TO BE SHELF EDGED PRIOR TO

FINISH NOTES:

ELECTRICAL CONTRACTOR.

PAINTING AND DECORATING CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND REPORT ALL IRREGULARITIES IMMEDIATELY TO THE GENERAL CONTRACTOR. COMMENCEMENT OF WORK SHALL INDICATE ACCEPTANCE OF EXISTING SURFACE.

ALL PAINT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION FOR TYPE OF PAINT AND SURFACE CONDITIONS.

ALL WALL AND CEILING FINISHES TO HAVE CLASS 1 SPREAD RATING.

WALL COVERING CONTRACTOR TO COORDINATE ALL WALL COVERING APPLICATIONS OVER NEW WORK.

FLOOR COVERINGS IN CLOSETS SHALL BE THE SAME AS THAT OF THE SPACE ONTO WHICH THE CLOSET DOOR OPENS, UNLESS NOTED OTHERWISE.
FLASH PATCH ALL AREAS WHERE FLOOR IS NOT LEVEL OR

PROVIDE AND INSTALL ALL THE TILE FLOORING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
FLAME SPREAD RATING OF ALL INTERIOR FLOOR COVERINGS TO BE 75 OR LESS.

TRUE, PRIOR TO FLOOR INSTALLATION.

PROTECT ALL WORK FINISHED UNDER THIS SECTION AND ALL ADJACENT WORK AND MATERIALS BY SUITABLE COVERINGS OR OTHER METHOD DURING PROGRESS OF THE PAINTING WORK.

FILL ALL NAIL HOLES WITH SUITABLE FILLER. REMOVE ALL SPATTER OF SPILLAGE OF PAINT ON GLASS, FLOORS, AND OTHER FINISHED SURFACES.

CLEAN ALL SURFACES TO BE FINISHED AS REQUIRED TO REMOVE OIL, GREASE, DUST, AND DIRT. SAND WHERE NECESSARY AND AT EXISTING PAINTED SURFACES TO PROPERLY PREPARE SURFACES TO RECEIVE FINISH.

FINAL COATS SHALL NOT BE APPLIED UNTIL AFTER OTHER TRADE WHOSE OPERATIONS WOULD BE DETRIMENTAL TO FINISH PAINTING HAVE FINISHED WITH THEIR WORK IN THE AREAS TO BE PAINTED.

ACCESS PANELS, ELECTRICAL PANELS, AIR DIFFUSING
OUTLETS, SUPPLY AND EXHAUST GRILLES, LOUVERS,
EXPOSED CONDUIT, PRIMED OUTLET COVERS, PRIMED
WALL AND CEILING PLATES AND OTHER ITEMS IN PAINTED
AREAS SHALL BE PAINTED TO MATCH THE AREAS IN WHICH
THEY OCCUR UNLESS OTHERWISE SPECIFIED.

ALL SURFACES SHALL BE PROPERLY PREPARED, PRIOR TO THE INSTALLATION OF WALL COVERINGS.

WHERE NEW WORK CONNECTS WITH EXISTING, THE GEN. CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING AND PATCHING. HE SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS OF THIS WORK, WHETHER OR NOT SHOWN OR SPECIFIED.

WORKMANSHIP SHALL BE FIRST CLASS IN EVERY RESPECT WITH ALL MATERIALS EVENLY SPREAD AND SMOOTHLY FLOWED ON WITHOUT RUNS AND SAGS.

ALL DOORS, WHEN PAINTED, TO BE SAME COLOR BOTH SIDES, UNLESS OTHERWISE NOTED.

ALL AIR CONDITIONER CEILING DIFFUSERS AND REGISTERS SHALL BE PAINTED TO MATCH CEILING, UNLESS NOTED

SHALL BE PAINTED TO MATCH CEILING, UNLESS NOTED OTHERWISE.

ALL WOOD GROUNDS TO BE FIREPROOF WOOD IN ACCORDANCE WITH LOCAL BUILDING CODES.

LOCAL BUILDING CODES.

GENERAL CONTRACTOR SHALL PROVIDE ALL BLOCKING
CONCEALED WITHIN WALLS AND COMBINE ABOVE CEILING.
ALL OTHER BLOCKING TO BE PROVIDED BY INDIVIDUAL

PREMISES SHALL BE FIREPROOFED IN ACCORDANCE WITH

ALL WOODWORK AND BLOCKING ATTACHED TO THE

TRADES.
ALL SURFACES THAT ARE TO RECEIVE PLASTIC LAMINATE FINISHES SHALL ALSO HAVE PLASTIC LAMINATE ON THE BACK AND EDGES, WHERE APPLICABLE, UNLESS NOTED OTHERWISE.

WHERE WOOD SURFACES ARE PAINTED, WOOD IS TO BE PROPERLY SEALED, SANDED, AND SHOP PRIMED TO RECEIVE FINISH COAT, BY CASEWORK CONTRACTOR.

GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL WOOD BLOCKING OR ADDITIONAL STRUCTURAL SUPPORT WITHIN THE PARTITION OR CEILING PLENUM AS REQUIRED FOR THE THE INSTALLATION OF SPECIAL CONSTRUCTION AS NOTED. MATERIALS TO RECEIVE PAINTED OR NATURAL TRANSPARENT FINISHED SHALL BE FREE FROM DEFECTS AND BE FILLED, SEALED, AND SANDED SMOOTH BEFORE FINISHING. FINISHES SHALL BE SHOP APPLIED WITH A PRESSURIZED SPRAY GUN IN A DUST-FREE SPRAY BOOTH. FINISHES SHALL BE TOUCHED UP IN THE FIELD AFTER INSTALLATION.

GENERAL CONTRACTOR TO SUPPLY ALL NECESSARY INFORMATION FOR CUTOUTS TO CABINET WORK CONTRACTOR.

DEMOLITION NOTES:

WHERE DEMOLITION OCCURS, ALL REMAINING WALLS ARE TO BE PATCHED, SANDED SMOOTH AND PRE-PARED FOR FINISHING AS REQUIRED. PATCH AND REPAIR FLR., WALL, CLG. AS REQUIRED FOR SMOOTH, LEVEL FINISH.

ALL EXISTING WALL FINISHES TO BE REMOVED. WALLS ARE TO BE PATCHED, SANDED SMOOTH AND PREPARED FOR NEW FINISHES AS REQUIRED.

WHERE NEW PARTITION MEETS EXISTING FURRED COLUMN OR CORE WALL, REMOVE CONER BEAD, ALIGN, TAPE, AND SPACKLE NEW PARTITION TO EXISTING GYPSUM BOARD.

ALL CONSTRUCTION TO REMAIN AND EFFECTED BY DEMOLITION SHALL BE PATCHED AND SPACKLED AND BE PROPERLY MEMBERED AND ALIGNED SO AS TO LEAVE NO EVIDENCE OF PATCHING OR REPAIRS.

ALL EXISTING CARPETING SHALL BE REMOVED, INCLUDING CARPET STRIPS AND PADDING IN AREA OF CONST. (AS DIRECTED BY OWNER)

EXISTING ELECTRICAL AND TELEPHONE OUTLETS LOCATED ON DEMOLISHED WALLS ARE TO BE REMOVED INCLUDING CONDUIT AND WIRING BACK TO JUNCTION BOX.

WHERE PLUMBING FIXTURES ARE BEING REMOVED OR WHERE EXPOSED PLUMBING PIPES OCCUR, CAP LINES

BEHIND FINISHED SURFACES.

ALL EXISTING CONSTRUCTION WHERE INDICATED INCLUDING ELECTRICAL, TELEPHONE, PLUMBING, AND MECHANICAL DEVICES INDICATED ON THESE CONSTRUCTION DRAWINGS SHALL BE REMOVED IN A CAREFUL MANNER SO AS NOT TO DAMAGE ADJOINING CONSTRUCTION.

THE DRAWINGS
OCCUMENTS PROJ
THE ARCHITECT
WITH SEPECT

PSENKA ARCHITECTS Inc.

ARGMITECTURE - PLANNING - BESTIGN - BUILD

40 LANDOVER PARKWAY, SUITE 4 HAWTHORN WOODS, IL 60047

FAX: 847756-4701

TELEPHONE 847756-4700

OW DRAWN BY:
CHECKED BY:

W CULTIVATION FACILITY FOR CRAFT CR 740 SCHNEIDER DR. SOUTH ELGIN, IL 60177

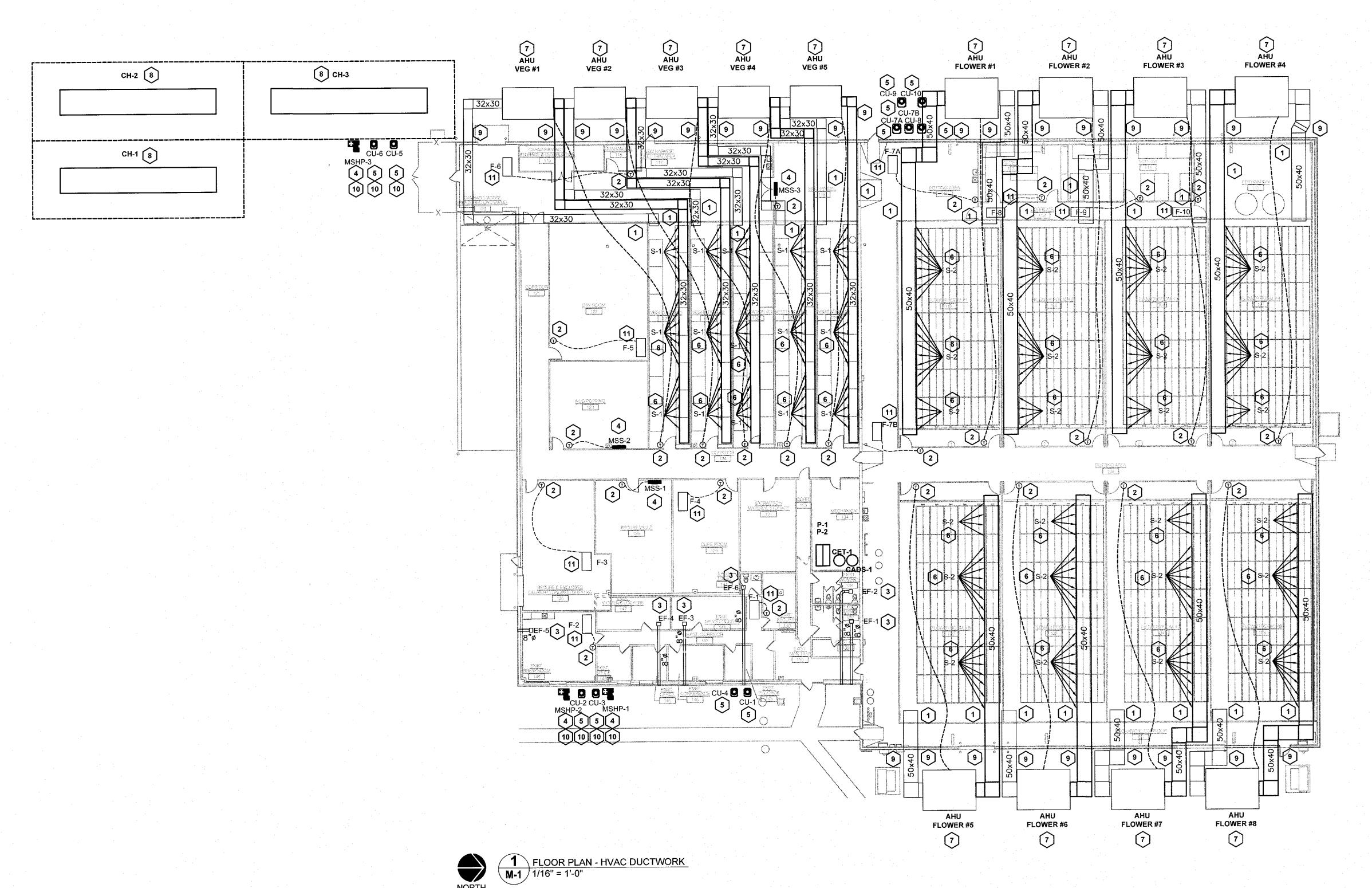
SHEET NO.

A-3SHEET 3 OF 3

HVAC KEYED " O" NOTES

- 1. PROVIDE SUPPLY & RETURN AIR DUCTWORK AS HIGH AS POSSIBLE. COORDINATE WITH ALL OTHER BUILDING ELEMENTS.
- 2. LOCATION OF NEW THERMOSTAT/HUMIDISTAT. FIELD VERIFY FINAL LOCATION.
- 3. PROVIDE CEILING MOUNTED EXHAUST FAN AND ROUTE TO EXTERIOR WALL.
- 4. PROVIDE NEW DUCTLESS MINI-SPLIT AND REMOTE AIR COOLED HEAT PUMP AS SCHEDULED. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
- 5. PROVIDE NEW CONDENSING UNIT ON NEW CONDENSATE PAD AT GRADE.
- 6. PROVIDE SIDEWALL SUPPLY GRILLE.
- 7. PROVIDE AND INSTALL NEW AHU ON GRADE/CONCRETE PAD.
- 8. PROVIDE AND INSTALL NEW CHILLER ON GRADE/CONCRETE PAD.
- 9. ROUTE DUCT UP AS HIGH AS POSSIBLE. MAINTAIN PATH FOR EGRESS WALKWAY.
- 10. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
- 11. PROVIDE AND INSTALL NEW HORIZONTAL FURNACE AS HIGH AS POSSIBLE. ROUTE DUCTWORK

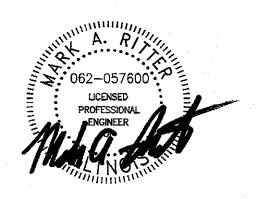






112 NORTH KANSAS ST. EDWARDSVILLE, IL 62025 P: 618-659-8709 F: 618-656-8353

ILLINOIS DESIGN FIRM 184.006312



SIGNATURE,

12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

OGRI Holdings, LLC 740 Schneider South Elgin, IL 6017

PROJECT NO. R21-049 12/10/21 CDB DRAWN KDW CHECKED

FLOOR PLAN -**HVAC DUCTWORK**

M-1

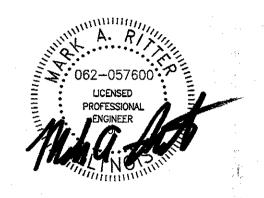
HVAC KEYED " " NOTES

- A. PROVIDE NEW AHU ON CONCRETE PAD AT GRADE.
- B. CHILLERS ON CONCRETE PAD.
- C. PROVIDE 2 WAY VALVE ON CWS/CWR AND HWS/HWR FOR ISOLATION. PROVIDE 3 WAY VALVE FOR CONTROL ON BOTH CWS/CWR AND HWS/HWR.
- D. PROVIDE NEW 2 WAY ISOLATION VALVES FOR CHILLER (BOTH CWS/CWR). CHILLER TO CLOSE 2-WAY VALVES IF CHILLER IS OFF. CHILLER TO OPEN VALVES AND START CHILLER ON PROOF OF FLOW.
- E. ESTIMATED CHILLED WATER SYSTEM VOLUME IS ~10,200 GALLONS. IT IS BELIEVED THAT A CHILLED WATER BUFFER TANK IS NOT REQUIRED. CHILLER SUPPLIER TO VERIFY.
- F. PROVIDE BASE MOUNTED PUMP(S), INCLUDE VFD & MULTI-PURPOSE VALVES.
- G. PROVIDE BOILER. ROUTE FLUE AND COMBUSTION AIR THROUGH ROOF. MAINTAIN ALL CLEARANCES AS REQUIRED BY CODE AND EQUIPMENT SUPPLIER. BOILER CONNECTIONS ARE 6". BOILER HEADER FROM PIPING INJECTION LOOP TO SYSTEM LOOP TO BE 6".



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GRI Holdings, LLC 740 Schneider South Elgin, IL 60177

PROJECT NO. R21-049

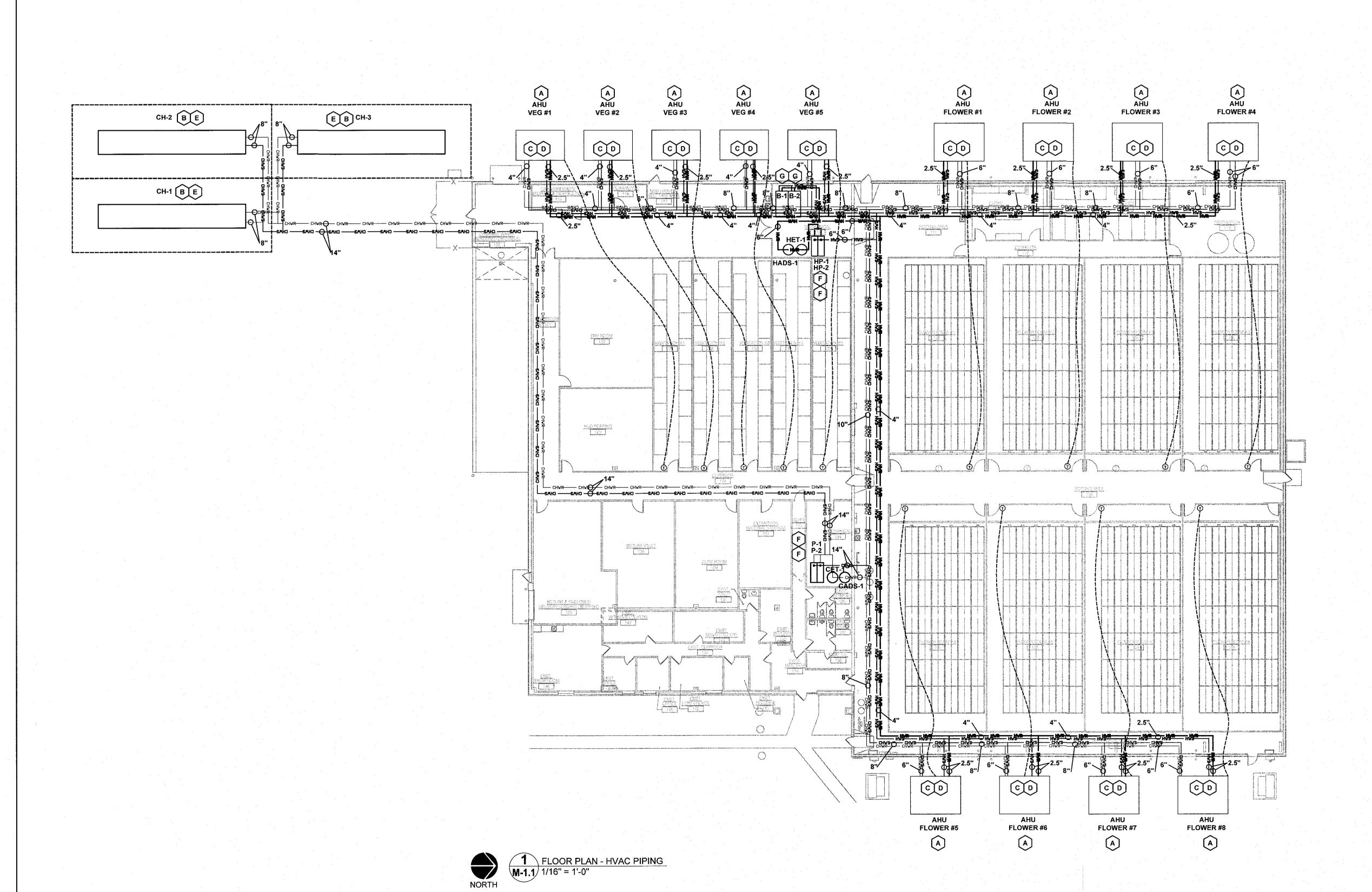
DATE 12/10/21

DRAWN CDB

CHECKED KDW

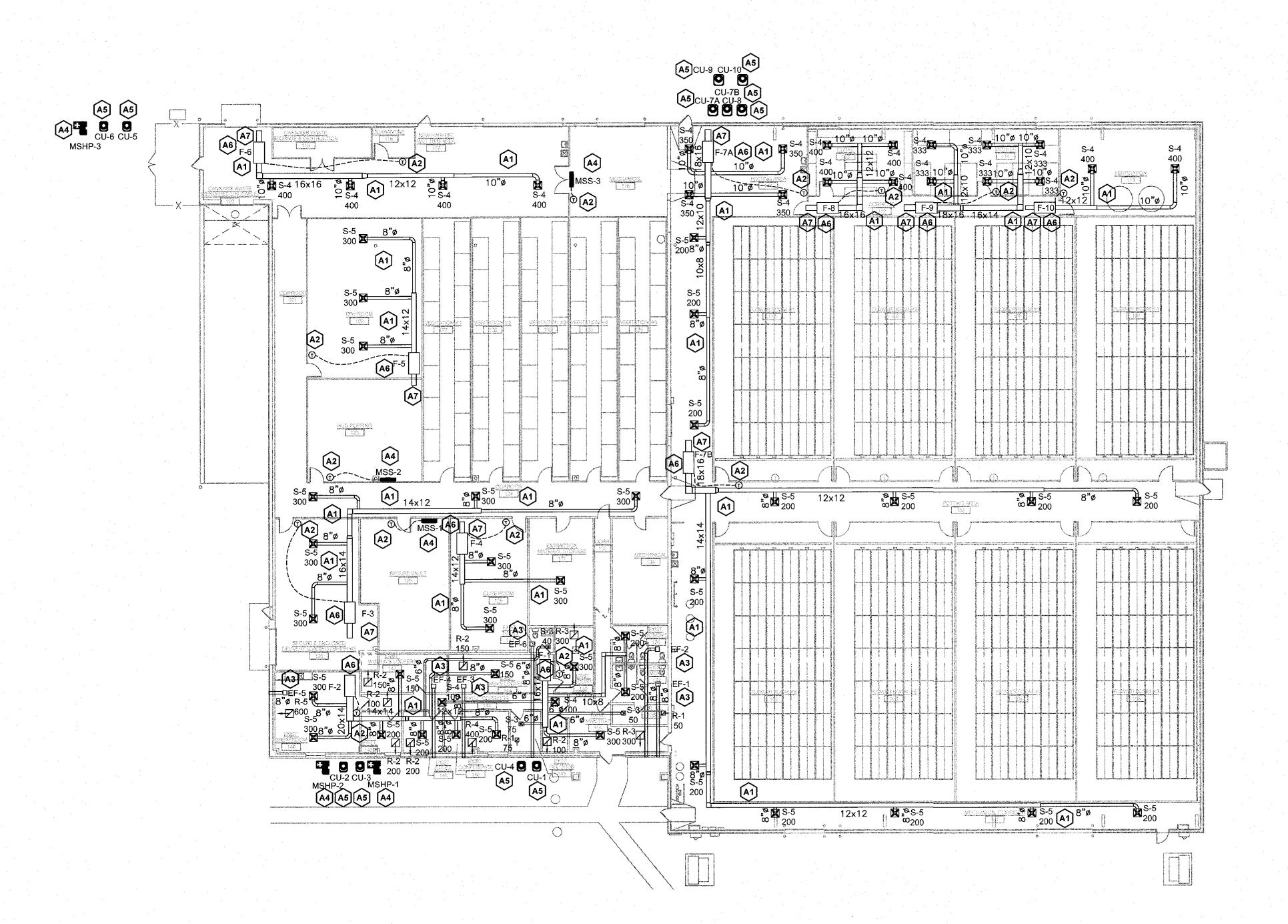
FLOOR PLAN -HVAC PIPING

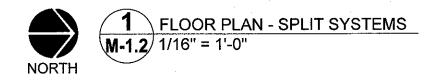
M-1.1



HVAC KEYED " O" NOTES

- A1. PROVIDE SUPPLY & RETURN AIR DUCTWORK AS HIGH AS POSSIBLE. COORDINATE WITH ALL OTHER BUILDING ELEMENTS.
- A2. LOCATION OF NEW THERMOSTAT. FIELD VERIFY FINAL LOCATION.
- A3. PROVIDE CEILING MOUNTED EXHAUST FAN AND ROUTE TO EXTERIOR WALL.
- A4. PROVIDE NEW DUCTLESS MINI-SPLIT AND REMOTE AIR COOLED HEAT PUMP AS SCHEDULED. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
- A5. PROVIDE NEW CONDENSING UNIT ON NEW CONDENSATE PAD AT GRADE. ROUTE REFRIGERANT PIPING IN MOST DIRECT PATH.
- A6. PROVIDE AND INSTALL NEW HORIZONTAL FURNACE AS HIGH AS POSSIBLE. ROUTE DUCTWORK APPROXIMATELY AS SHOWN.
- A7. ADD FILTER IN RETURN PATH ON RETURN SIDE.

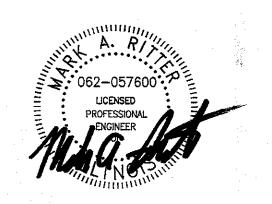




WRF ENGINEERS, LLC

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12/10/2021

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LICENSE EXPIRES

GRI Holdings, LLC 740 Schneider South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

DRAWN

KDW

FLOOR PLAN -SPLIT SYSTEMS

M-1.2

SCHEDULE OF AIR SEPARATOR											
MARK	MANUFACTURER AND MODEL NO.	CONNECTION SIZE	GPM	PRESSURE DROP	AIR REMOVAL	REMARKS					
HADS-1	TACO 4910ADH	10"	681	~0.75'	AIR & DIRT HIGH VELOCITY						
CADS-1	TACO 4916ADH	16"	3102	~1.5'	AIR & DIRT HIGH VELOCITY						

NOTES:
1. PROVIDE PIPE TRANSITIONS AS REQUIRED.

SCHEDULE OF EXPANSION TANKS										
MARK	MANUFACTURER	CVCTEM	GALLO	N VOLUME	REMARKS					
MARK	AND MODEL NO.	SYSTEM	TANK	ACCEPTANCE	KEWAKKS					
HET-1	TACO CA-300	HEATING	79	79						
CET-1	TACO CA-1300	COOLING	344	344						

1. SET ON CONCRETE HOUSEKEEPING PAD.

2. PROVIDE NEW RPZ ON MAKEUP WATER LINE. DESIGN BASE IS WATTS 009 SIZED AT ¾".

3. FLOOR MOUNT VERTICAL UNIT.

ROOM AMBIENT REFERENCE GUIDE											
	MOTHER ROOM	CLONE ROOM	VEGETATIVE ROOM	FLOWERING ROOM	DRY/CURE ROOM						
Temperature	60 - 75 degrees F	72 - 78 degrees F	60 - 75 degrees F	72 - 74 degrees F	65 - 70 degrees F						
Humidity Level	40 - 50% rH	45 - 50% rH	40 - 50% rH	40 - 50% rH	55 - 60% rH						
CO2 Content	NA	NA	NA	NA	NA						

HVAC CONTROLS / MONITORING

PROVIDE WEB-BASED MONITORING FOR THE FOLLOWING CRITICAL POINTS:

- PROVIDE A SEPARATE REMOTE SENSOR AND TIE THRU THE MICRO PROCESSOR OF THE AC UNIT. MONITOR THE CO2 LEVELS AND PROVIDE ALARM SET POINTS (ADJUSTABLE).
- MONITOR THE TEMPERATURE IN EACH LOCATION. PROVIDE ALARM POINTS. (ADJUSTABLE)
- HUMIDITY:
- MONITOR THE HUMIDITY IN EACH LOCATION. PROVIDE ALARM POINTS. (ADJUSTABLE)

4. M	ONITORING OF EACH AC U	NIT SYSTEM OPERATING PARA	METERS.					
		SCHEDULE OF	GRILLE	S AND D	IFFUS	ERS		
MARK	MANUFACTURER AND MODEL NO.	TYPE	CFM	MOUNT	NECK	DAMPER	MATERIAL	
S-1	KRUEGER 880	DOUBLE DEFLECTION 3/4" BLADES STEEL GRILLE	500	DUCT	12"X10"	YES	STEEL	,
	<u> </u>							

MARK	MANUFACTURER AND MODEL NO.	TYPE	CFM	MOUNT	NECK	DAMPER	MATERIAL.	FINISH	REMARKS
S-1	KRUEGER 880	DOUBLE DEFLECTION 3/4" BLADES STEEL GRILLE	500	DUCT	12"X10"	YES	STEEL	WHITE	1-2
S-2	KRUEGER 880	DOUBLE DEFLECTION 3/4" BLADES STEEL GRILLE	1275	DUCT	24"X14"	YES	STEEL	WHITE	1-2
S-3	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	40-75	CEILING	6"	YES	STEEL	WHITE	1-2, 5
S-4	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	100	CEILING	6"	YES	STEEL	WHITE	1-3
S-5	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	150-300	CEILING	8"	YES	STEEL	WHITE	1-3
S-6	KRUEGER SHR W/OBD	LOUVERED 4-WAY CEILING FLUSH FACE DIFFUSER	333-400	CEILING	10"	YES	STEEL	WHITE	1-3
R-1	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35° DEFL.	50-75	ACT	6"X6"	NO	STEEL	WHITE	1-2, 4-5
R-2	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35° DEFL.	100-200	ACT	8"X6"	NO	STEEL	WHITE	1-4
R-3	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35° DEFL.	300	ACT	8"X8"	NO	STEEL	WHITE	1-4
R-4	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35° DEFL.	400	ACT	10"X8"	NO	STEEL	WHITE	1-4
R-5	KRUEGER S80 RETURN	RETURN 3/4" SPACE & 35° DEFL.	600	ACT	12"X10"	NO	STEEL	WHITE	1-4

NOTE:

1. SEE DRAWINGS FOR LOCATION AND SIZES OF GRILLES AND DIFFUSERS. 2. INCLUDE OPTIONAL BALANCING DAMPER IN NECK.

- 3. MODULE SIZE IS 24"X24". 4. PROVIDE DUCT CONNECTIONS WHERE SHOWN.
- 5. MODULE SIZE IS 12"X12".

							AIR HA	NDLING	UNIT S	CHEDUL	E													
		AIR FLOW		HILLED W	ATER COO	LING COIL			Н	OT WATER H	EATIN	G COIL				FAN D	ATA		Е	LECTRIC	CAL P	OWER	FILTER DATA	UNIT DATA
MARK	CARRIER MODEL NUMBER	SUPPLY AIR FLOW	TOTAL MBH	SENSIBLE MBH	TEMP	DEG. F	TEMP GPM	FLUID PRESSURE			GPM	FLUID	FLUID		APPROX. EXT. SP	TOTAL SP	RPM	APPROX. MOTOR BHP	VOLT	PHASE	HZ	MOP	A TYPE	WEIGHT LBS.
	001114 0175 40144	CFM	007.50	405.00	°F DB/WB	ENT.	LVG.	DROP (FT)	MBH	ENT. LVG.	45.4	DROP (FT)		LVG. 100.2°		(IN W.C.) 3.34"	2236	7.9	460	2	60	40.4 45	MERV 13	6209 LBS
AHU VEG #1	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69 204.5		446.74	36.90 75.82					2.0"					3				
AHU VEG #2	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69 204.5	21'	446.74	36.90 75.82	45.1	1.2'	120°	100.2°	2.0"	3.34"	2236	7.9	460	3	60	40.4 45	MERV 13	6209 LBS
AHU VEG #3	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69 204.5	21'	446.74	36.90 75.82	45.1	1.2'	120°	100.2°	2.0"	3.34"	2236	7.9	460	3	60	40.4 45	MERV 13	6209 LBS
AHU VEG #4	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69 204.5	21'	446.74	36.90 75.82	45.1	1.2'	120°	100.2°	2.0"	3.34"	2236	7.9	460	3	60	40.4 45	MERV 13	6209 LBS
AHU VEG #5	39MW SIZE 40W	10,000	967.53	405.36	95/78	78.1/74.2	39.69/39.69 204.5	21'	446.74	36.90 75.82	45.1	1.2'	120°	100.2°	2.0"	3.34"	2236	7.9	460	3	60	40.4 45	MERV 13	6209 LBS
AHU FLOWER #1	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2'	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS
AHU FLOWER #2	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS
AHU FLOWER #3	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2'	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS
AHU FLOWER #4	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2'	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS
AHU FLOWER #5	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2'	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS
AHU FLOWER #6	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2'	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS
AHU FLOWER #7	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2'	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS
AHU FLOWER #8	39MW SIZE 85W	25,500	1107.79	662.21	95/78	76.6/66.7	51.89/51.89 234.4	19.4'	507.94	52.00 69.93	51.3	2.2'	120°	100.2°	2.0"	3.20"	1917	20.6	460	3	60	60.2 70	MERV 13	8478 LBS

I. UNIT HAS DOUBLE WALL R-13 SEALED INSULATED PANELS.

- 2. EXTERIOR PANELS HAVE PAINTED FINISH. 3. INTERIOR PANELS ARE GALVANIZED.
- 4. UNITS HAVE LEVEL 2 THERMAL BREAK.
- 5. UNIT INCLUDES 6" BASE RAIL.6. UNIT INCLUDE 4" PLEATED FILTER, MERV 13.
- 7. UNIT HAS 304 STAINLESS STEEL DRAIN PAIN.
- 8. UNIT HAS SUPPLY FAN WITH VFD.
- 9. CHILLED WATER COIL/LOOP SIZED FOR 30% PROPYLENE GLYCOL.
- 10. HOT WATER HEATING COIL/LOOP DOES NOT HAVE GLYCOL.

		H	OT WATER	BOILER SC	HEDULE		· · · · · · · · · · · · · · · · · · ·	
PLAN	MEG	MODEL	М	ВН	FUEL	LVACE	A 7	REMARKS
MARK	MFG	MODEL	INPUT OUTPUT	FUEL	LWT	Δ 1	REWARNS	
B-1	LOCHINVAR CREST	FCB6000	6000	5766	N. GAS	120°	20	W/ PRIMARY PUMP
B-2	LOCHINVAR CREST	FCB6000	6000	5766	N. GAS	120°	20	W/ PRIMARY PUMP

NOTE, BOILER(S) SHALL BE PROVIDED WITH THE FOLLOWING OPTIONS:

- UNIT TO HAVE 96.1% THERMAL EFFICIENCY. UNIT HAS TOUCH SCREEN OPERATING CONTROL.
- UNIT HAS BUILT-IN CASCADING CAPABILITY.
- UNIT IS CAPABLE OF BUILDING MANAGEMENT SYSTEM INTEGRATION.
- UNIT HAS OUTDOOR RESET CONTROL WITH OUTDOOR AIR SENSOR.
- UNIT HAS CONTROL FOR SYSTEM PUMPS AND BOILER PUMPS.
- UNIT HAS 20:1 TURNDOWN. UNIT HAS DIRECT SPARK IGNITION.
- UNIT SHALL USE VERTICAL VENTING THROUGH ROOF.
- 10. UNIT SHALL HAVE ALARM BELL OPTION. 11. UNIT SHALL HAVE CONDENSATE NEUTRALIZATION KIT.
- 12. UNIT SHALL COME WITH VARIABLE SPEED BOILER PUMP.

		SCHEDULE OF	AIR C	OOLE	D CHIL	LERS				•		AMBIENT A	AIR: <u>95°F</u>
MARK	MANUFACTURER	FLUID	TONG		/APORATO		WPD	MCA	EL MOP	ECTRICAL	EER	WEIGHT LBS	REMARKS
	AND MODEL NO.	TYPE	TONS	EWT °F	LVVIF	GPM	VVPD	IVICA	IVIOP	VOLT/PH	LEK		
CH-1	CARRIER 30XV500	30% PROPYLENE GLYCOL	441.9	46	36	1020	20.6'	949.3	1200	460/3	8.683	27,938	1-11
CH-2	CARRIER 30XV500	30% PROPYLENE GLYCOL	441.9	46	36	1100	24.6'	938.3	1200	460/3	9.136	26,356	1-11
CH-3	CARRIER 30XV500	30% PROPYLENE GLYCOL	441.9	46	36	1100	24.6′	938.3	1200	460/3	9.136	26,356	1-11

NOTE:

1. SEE DRAWINGS FOR LOCATIONS OF CHILLERS.

- 2. INCLUDE BASE UNIT. 3. INCLUDE 2-WAY ISOLATION VALVES.
- 4. INCLUDE SUCTION LINE INSULATION. 5. INCLUDE CONTROL TRANSFORMER.
- 6. INCLUDE FLOODED EVAPORATOR, WITH HEATER FOR BRINE APPLICATION, 2 PASS WITH HEATER.
- 7. INCLUDE VARIABLE SPEED CONDENSER FANS.
- 8. INCLUDE COIL TRIM PANELS. 9. INCLUDE LOW AMBIENT HEAD PRESSURE CONTROL.
- 10. STANDARD TIER.
- 11. INCLUDE BACNET/MODBUS TRANSLATOR INTERFACE CARD.

	<u> </u>		PUMF	SCHE	DULE				
PLAN	MANUE MODEL USE COM FT		FT	IMP	ELEC	TRICAL			
MARK	MANUF.	MODEL	USE	GPM	HEAD	SIZE	HP	VOLT/Ø	REMARKS
HP-1	TACO	SFI4013D	HEATING WATER LOOP	681	100	11.30	30	460/3	1-3
HP-2	TACO	SFI4013D	HEATING WATER LOOP	681	100	11.30	30	460/3	1-3
CP-1	TACO	SFI8013D	CHILLED WATER LOOP	3102	135	13.10	150	460/3	1-3
CP-2	TACO	SFI8013D	CHILLED WATER LOOP	3102	135	13.10	150	460/3	1-3

NOTES:
1. VFD'S FOR THE PUMPS SHALL BE PROVIDED BY THE PUMP SUPPLIER.
2. PUMPS SHALL BE SELF SENSING.
3. PUMPS SHALL BE PRESSURE CLASS 250 RATED.

	SC	HEDULE OF	EXH	AUST	FANS	5			
MADIC	MANUFACTURER	TVDE	CFM	EXT.	RPM	MAX.	ELE	ECTRICAL	REMARKS
MARK	AND MODEL NO.	TYPE	CFIVI	S.P.	RPIVI	SONES	POWER	VOLT/PH	KEWAKKS
EF-1	GREENHECK SP-A290	CEILING	225	0.40"	1046	3.0	81 WATTS	115/1	1-7
EF-2	GREENHECK SP-A290	CEILING	225	0.40"	1046	3.0	81 WATTS	115/1	1-7
EF-3	GREENHECK SP-B150	CEILING	125	0.40"	885	2.0	128 WATTS	115/1	1-7
EF-4	GREENHECK SP-B150	CEILING	125	0.40"	885	2.0	128 WATTS	115/1	1-7
EF-5	GREENHECK SP-A290	CEILING	225	0.40"	1046	3.0	81 WATTS	115/1	1-7
EF-6	GREENHECK SP-B110	CEILING	.75	0.40"	773	1.3	80 WATTS	115/1	1-7

NOTE, UNIT SHALL BE PROVIDED WITH THE FOLLOWING OPTIONS:

- PROVIDE SOLID STATE SPEED CONTROL, SHIPPED LOOSE. PROVIDE ROUND HOODED WALL CAP, PAINTED TO MATCH COLOR AS SELECTED.
- PROVIDE ALUMINUM GRILLE WITH WHITE FINISH. PROVIDE ROUND DUCT CONNECTION.
- PROVIDE ISOLATION KIT.
- MOTOR IS UL 507 LISTED. 7. PROVIDE ROUND DUCT CONNECTOR.

MARK	MANUFACTURER	MOUNTING	CAPACITY	SEER	OEM	ELE	CTRICAL	REMARKS
MARK	AND MODEL NO.	STYLE	BTUh	COP @ 17°	CFM	MCA	VOLT/PH	KEIVIARKS
MSS-1	MITSUBISHI PKA-A24KA7		10,000-	21.4	F70 700	1	208-230/1	SEE
MSHP-1	MITSUBISHI PUZ-A24NHA7	WALL	24,000	21.4 2.95	570-700	19	208-230/1	NOTES
MSS-2	MITSUBISHI PKA-A24KA7	34644	10,000-	21.4	F70 700	1	208-230/1	SEE
MSHP-2	MITSUBISHI PUZ-A24NHA7	WALL	24,000	2.95	570-700	19	208-230/1	NOTES
MSS-3	MITSUBISHI PKA-A24KA7		10,000-	21.4		1	208-230/1	SEE
MSHP-4	MITSUBISHI PUZ-A24NHA7	WALL	24,000	2.95	570-700	19	208-230/1	NOTES

- PROVIDE LOW AMBIENT OPERATION WITH THE INSTALLATION OF LOW AMBIENT KIT (WIND BAFFLES).
- PROVIDE MOUNTING RAILS FOR CONDENSING UNIT, 24" TALL MINMUM.
- PROVIDE CONDENSATE LIFT KIT.

HVAC	
CHECKED	KD\
DRAWN	CD
DATE	12/10/2
PROJECT NO.	R21-04

ENGINEERS, LLC

112 NORTH KANSAS ST. EDWARDSVILLE, IL 62025 P: 618-659-8709

F: 618-656-8353

ILLINOIS DESIGN FIRM 184.006312

SIGNATURE

12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

GRI Holdings, LL(740 Schneider South Elgin, IL 601

HVAC SCHEDULES

GENERAL HVAC NOTES:

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- PROVIDE WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL RULES, CODES AND REGULATIONS OF THE STATE OF PENNSYLVANIA AND JURISDICTIONAL REQUIREMENTS.
- CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY EQUIPMENT, DUCTWORK OR PIPING INSULATION IS APPLIED.
- WHERE TWO OR MORE ITEMS OF THE SAME TYPE AND EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
- COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS
- LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS & CONTROLS.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO FANS AND OTHER EQUIPMENT. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- BALANCE AIR FLOW TO ALL NEW HVAC EQUIPMENT, AS SPECIFIED AND INDICATED ON PLANS.
- ALL HVAC EQUIPMENT AND ASSOCIATED DISCONNECTS SHALL BE LABELED WITH THE EQUIPMENT NUMBER PERMANENTLY AFFIXED WITH AN ENGRAVED PLASTIC LABEL.
- WIRE TIE ALL T-BAR MOUNTED CEILING DIFFUSERS TO THE MAIN RUNNERS OF THE CEILING AND STRUCTURAL SUPPORT.
- PROVIDE VIBRATION ISOLATION TO ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS. DO NOT SCALE DRAWINGS.
- LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- INSTALL ALL EXTERIOR VENTS, EXHAUSTS, AND OUTSIDE-AIR INTAKES SO THAT ANY OUTSIDE-AIR INTAKE IS EITHER 2'-0" LOWER THAN ANY EXHAUST OR VENT WITHIN 15' OR 15' CLEAR OF ANY EXHAUST OR VENT AT THE SAME HEIGHT. COORDINATE WITH PLUMBING WORK FOR PLUMBING VENTS. OUTSIDE AIR EXHAUST AND INTAKE OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR ROOF/WALL CAPS, AS SHOWN AND SPECIFIED. OPENINGS SHALL BE PROTECTED AGAINST ALL LOCAL WEATHER CONDITIONS.
- CONTRACTOR SHALL FLASH AND SEAL ALL NEW ROOF PENETRATIONS AND OPENINGS CREATED BY PROJECT SCOPE PER ROOFING MANUFACTURERS RECOMMENDATIONS.
- COORDINATE DUCTWORK IN INTERSTITIAL SPACE WITH ROOF STRUCTURE. THIS WILL INCLUDE COORDINATING WITH NEW STRUCTURE TO PROVIDE FRAMED OPENINGS AS
- ALL DUCTWORK TO BE INSTALLED AS TIGHT TO THE UNDERSIDE OF THE ROOF STRUCTURE AS POSSIBLE TO PERMIT SPACE FOR OTHER PIPING, WIRING, ETC.
- WRAP ALL SUPPLY AND RETURN DUCTS WITH 1-1/2" DUCT WRAP.
- USE RADIUS ELBOWS ON ALL SUPPLY DUCTWORK. IF SPACE LIMITATIONS REQUIRE THE USE OF SQUARE ELBOWS, USE TURNING VANES.
- PROVIDE 150% TAKE-OFF AND MANUAL VOLUME DAMPERS AT ALL ROUND DUCT TAKE-OFFS FROM RECTANGULAR DUCTWORK, TYPICAL.
- MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- ALL CONDENSATE PIPING IS TO BE SCH. 40 PVC. PROVIDE CLEANOUTS AT EACH ACCESSIBLE 90° BEND (TEE AND REMOVABLE PLUG) ON THE CONDENSATE DRAIN PIPING FOR PIPING THAT CONTAIN TWO OR MORE 90° BENDS.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND PLUMBING WORK SHOWN ON OTHER CONTRACT DRAWINGS.
- PAINT ALL ROOF JACKS/CAPS TO MATCH EXTERIOR FINISH.
- ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED.
- ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS.
- PROVIDE ROUND U.L. CLASS 1 FLEXIBLE DUCT WITH 1" THICK FIBERGLASS INSULATION AND BI-DIRECTIONAL REINFORCED METALLIZED VAPOR BARRIER. MAXIMUM LENGTH 6'-0". FLEXIBLE DUCT SHALL BE THE SAME SIZE AS AIR DISTRIBUTION DEVICE NECK DIAMETER. SECURE FLEXIBLE DUCT TO SPIN-IN AND AIR DEVICE NECK WITH CORROSION RESISTANT METAL CLAMPS AND SEAL VAPOR BARRIER WITH SMACNA APPROVED TAPE.
- AD. ALL DUCTWORK MUST BE SEALED IN ACCORDANCE WITH SMACNA. PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT.
- INSTALL ALL DUCTS AS PER SMACNA AND NFPA 90A. ENSURE THAT DUCT FASTENERS AND SEALANTS ARE USED. SEAL ALL LONGITUDINAL SEAMS AND ALL TRANSVERSE SEAMS.
- CONTRACTOR TO PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR ALL HVAC SYSTEMS WITHIN 90 DAYS OF PROJECT COMPLETION.
- CONTRACTOR TO PROVIDE OWNER WITH AS-BUILT RECORD DRAWINGS WITHIN 90 DAYS OF PROJECT COMPLETION.
- WHEN MECHANICAL WORK IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED
- THE MECHANICAL DRAWINGS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF LINES, EQUIPMENT, SYSTEM, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE FOR DIMENSIONS.
- SOME ASSUMPTIONS WERE MADE REGARDING DUCT CONFIGURATION DURING DESIGN. THIS CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS PRIOR TO THE PURCHASE OF ANY MATERIALS AND COMMENCEMENT OF ANY WORK AND IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- PROVIDE SUFFICIENT ACCESS TO SERVICE ALL MECHANICAL EQUIPMENT.
- ALL EQUIPMENT, MATERIALS AND INSTALLATION IS TO BE WARRANTED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
- ALL DUCTWORK TO BE OF SHEETMETAL CONSTRUCTION PER SMACNA STANDARDS FOR LOW PRESSURE DISTRIBUTION. PROVIDE ALL VOLUME DAMPERS AND TURNING VANES NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM. COORDINATE SHEETMETAL LAYOUT WITH ALL OTHER TRADES PRIOR TO ANY FABRICATION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
- ALL CONTROL WORK TO BE PER MECHANICAL EQUIPMENT LIST. PROVIDE ANY NECESSARY TRANSFORMERS FOR LOW VOLTAGE CONTROL CIRCUITS. LOW VOLTAGE (24V) WIRING TO BE BY M.C.
- DUCTWORK SIZES ARE CLEAR INSIDE DIMENSIONS.
- COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- ALL REFRIGERANT LINES GET INSULATED WITH 1/2" ELASTOMERIC CELL INSULATION (ARMACELL/RUBATEX, ETC). ANY LINES EXTERIOR TO THE BUILDING SHALL HAVE AN ALUMINUM JACKET FOR WEATHER PROTECTION.
- ALL CHILLED WATER LINES SHALL HAVE 1-1/2" THICK FIBERGLASS INSULATION. ALL EXTERIOR CHILLED WATER LINES SHALL HAVE 1-1/2" THICK ELASTOMERIC CELL INSULATION AND ALUMINUM JACKET. ALL EXTERIOR CHILLED WATER INSULATION SHALL ALSO HAVE HEAT TRACE AT 5 WATTS/LF FOR FREEZE PROTECTION.
- ALL HEATING WATER LINES SHALL HAVE 2" THICK FIBERGLASS INSULATION.

			SC	HEDUL	E OF G	AS FUR	NACES			·		
MARK	MANUFACTURER	INPUT	OUTPUT	SUPPLY	TEMP.	O.A.	EXTERNAL	PILOT		ELECTRIC	CAL	REMARKS
WARK	AND MODEL NO.	MBH	МВН	CFM	RISE °F	CFM	S.P.	TYPE	HP	FLA/MCA	VOLT/PH	T CENT OF THE
F-1	CARRIER 59TP6-100V211114	100/65	97/63	1325	40-70	250	0.50"	HOT SRFC	1	14.7	115/1	1-7
F-2	CARRIER 59TP6-120V241120	120/78	117/76	1740	40-70	470	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-3	CARRIER 59TP6-100V211116	100/65	97/63	1500	40-70	132	0.50"	HOT SRFC	1	14.7	115/1	1-7
F-4	CARRIER 59TP6-80V211110	80/52	78/50	900	40-70	64	0.50"	HOT SRFC	1	14.7	115/1	1-7
F-5	CARRIER 59TP6-80V171110	80/52	78/50	900	40-70	207	0.50"	HOT SRFC	3/4	10.0	115/1	1-7
F-6	CARRIER 59TP6-120V241116	120/78	117/76	1600	40-70	340	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-7A	CARRIER 59TP6-120V241120	120/78	117/76	2000	40-70	414	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-7B	CARRIER 59TP6-120V241120	120/78	117/76	2000	40-70	414	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-8	CARRIER 59TP6-120V241116	120/78	117/76	1600	40-70	107	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-9	CARRIER 59TP6-120V241120	120/78	117/76	2000	40-70	138	0.50"	HOT SRFC	1	12.6	115/1	1-7
F-10	CARRIER 59TP6-80V171110	80/52	78/50	800	40-70	134	0.50"	HOT SRFC	3/4	10.0	115/1	1-7

1. PROVIDE CONCENTRIC VENT TERMINATION KIT.

PROVIDE CONDENSATE NEUTRALIZER KIT.

PROVIDE OR FABRICATE SIDE FILTER RETURN RACK. i. $\,\,\,$ SEE NOTES ON EVAPORATOR COIL SCHEDULE FOR EVAPORATOR COIL PLENUM MATING REQUIREMENTS.

PROVIDE PROGRAMMABLE THERMOSTAT WITH 7-DAY OPERATION AND COMPATIBLE WITH FURNACE; AUTO-CHANGE OVER TYPE.

6. MOTOR SHALL BE EC TYPE.

7. FURNACE IS 2 STAGE HEATING.

•						-				
	SCHEDU	JLE OF	DIRE	CT E	XPA	NSIO	N COILS	5		
MARK	MANUFACTURER AND MODEL NO.	CFM	DEB	WEB	DB	LB	SUCTION TEMP.	SENSIBLE MBH	TOTAL MBH	REMARK
EC-1	CARRIER CNPVP4821	1325	80	67	55	55	40	36.8	51.3	1-4
EC-2	CARRIER CNPVP6024	1740	80	67	55	55	40	46.6	63.1	1-4
EC-3	CARRIER CNPVP4821	1500	80	67	55	55	40	38.1	41.5	1-4
EC-4	CARRIER CNPVP3621	900	80	67	55	55	. 40	25.4	37.1	1-4
EC-5	CARRIER CNPVP2417	900	80	67	55	55	40	19.4	24.8	1-4
EC-6	CARRIER CNPVP6024	1600	80	67	55	55	40	37.7	47.3	1-4
EC-7A	CARRIER CNPVP6024	2000	80	67	55	55	40	42.05	53.25	1-4
EC-7B	CARRIER CNPVP6024	2000	80	67	55	55	40	42.05	53.25	1-4
EC-8	CARRIER CNPVP6024	1600	80	67	55	55	40	40.4	55.8	1-4
EC-9	CARRIER CNPVP6024	2000	80	67	55	55	40	55.4	76.1	1-4
EC-10	CARRIER CNPVP2417	800	80	67	55	55	40	15.3	18.9	1-4

- 1. DEB AND WEB ARE DESIGN CONDITION PARAMETERS (DESIGN WET BULB/DRY BULB). 2. DB AND LB ARE TARGET CONDITION OUTPUTS FROM EQUIPMENT AND ARE ASSUMED.
- ENSURE COMPARABILITY BETWEEN FURNACE, CONDENSING UNIT AND EVAPORATOR COIL TO MEET CAPACITIES.
- 4. ALL SENSIBLE AND LATENT CAPACITIES ARE MINIMUM REQUIREMENTS SUPPLIER SHALL MAKE EQUIPMENT SELECTION ADJUSTMENTS TO MEET OR EXCEED THE MINIMUM REQUIREMENTS WITHIN THIS SCHEDULE.

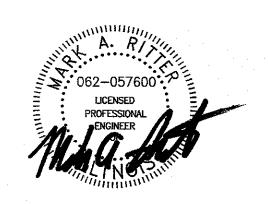
	SCHEDULE OF AIR	COOLED	CONDENSIN	IG UN	IITS	SUMMER AMBIENT: 95 °F
MARK	MANUFACTURER	NOMINAL	REFRIGERANT	EL	ECTRICAL	REMARKS
WARK	AND MODEL NO. MBH KEI KIGEKANT MC.		MCA	VOLT/PH		
CU-1	CARRIER 24ACB748A0030	48	R-410a	27.8	208-230/1	1-5
CU-2	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5
CU-3	CARRIER 24ACB748A0030	48	R-410a	27.8	208-230/1	1-5
CU-4	CARRIER 24ACB736A0030	36	R-410a	19.8	208-230/1	1-5
CU-5	CARRIER 24ACB724A0030	24	R-410a	14.5	208-230/1	1-5
CU-6	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5
CU-7A	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5
CU-7B	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5
CU-8	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5
CU-9	CARRIER 24ACB760A0030	60	R-410a	37.3	208-230/1	1-5
CU-10	CARRIER 24ACB724A0030	24	R-410a	14.5	208-230/1	1-5

- PROVIDE FREEZESTAT.
- PROVIDE HARD START KIT. PROVIDE SUPPORT FEET.
- 4. PROVIDE LINESET FROM CONDENSING UNIT TO EVAPORATOR COIL.
- 5. CONDENSING UNIT IS 2-STAGE.



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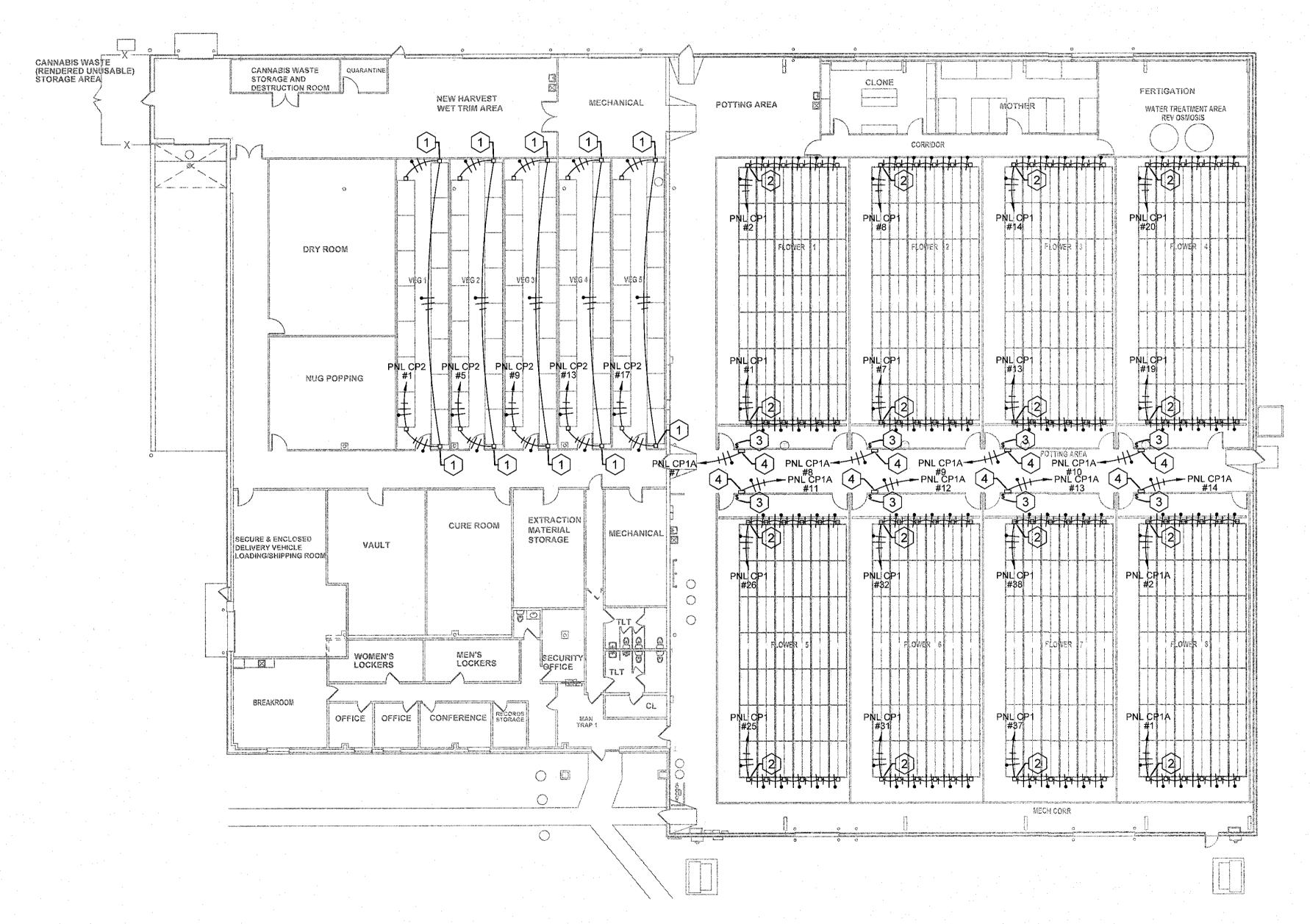
PROJECT NO.	R21-049
DATE	12/10/21
DRAWN	CDB
CHECKED	KDW

HVAC NOTES & SCHEDULES

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE. ALL BACKBOXES SHALL BE STEEL.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED 🗵 NOTES:

- 1. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS VEG ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
- 2. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS FLOWER ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
- 3. INSTALL SINGLE POLE SWITCH FOR CONTROL OF THE NIVOLA CIRCULATION FANS IN THIS ROOM.
- 4. PROVIDE 120V ELECTRICAL CONNECTIONS FOR LIGHTING SYSTEM CONTROL PANEL. COORDINATE EXACT LOCATION OF CONTROL PANEL PRIOR TO INSTALLATION.

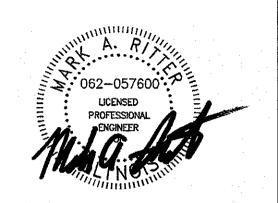






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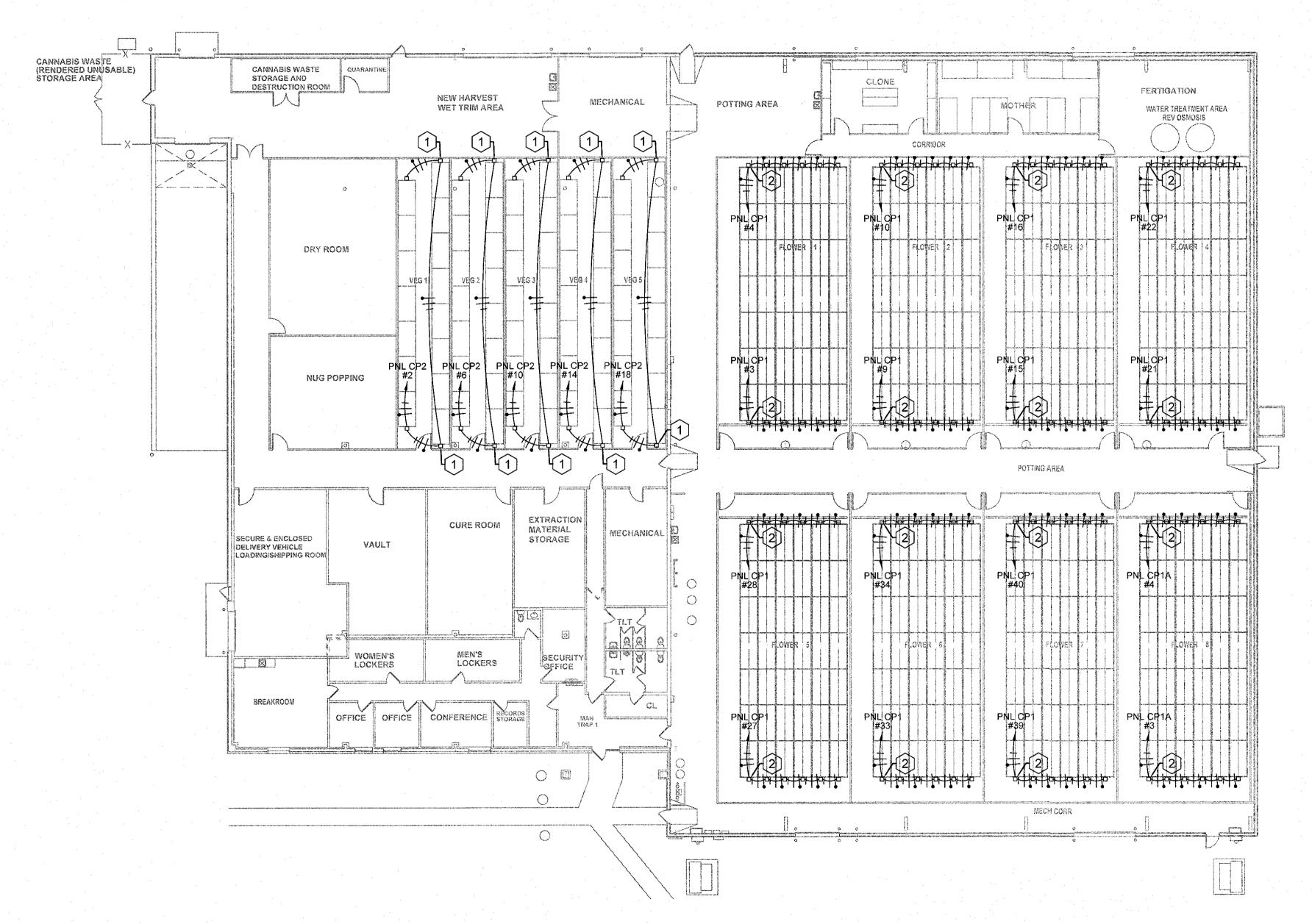
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RACK FAN ELECTRICAL PLAN - TIER 1

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE. ALL BACKBOXES SHALL BE STEEL.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED 🗵 NOTES:

- 1. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS VEG ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
- 2. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS FLOWER ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.



RACK FAN ELECTRICAL PLANS - TIER 2 E-1.2 1/16" = 1'-0"



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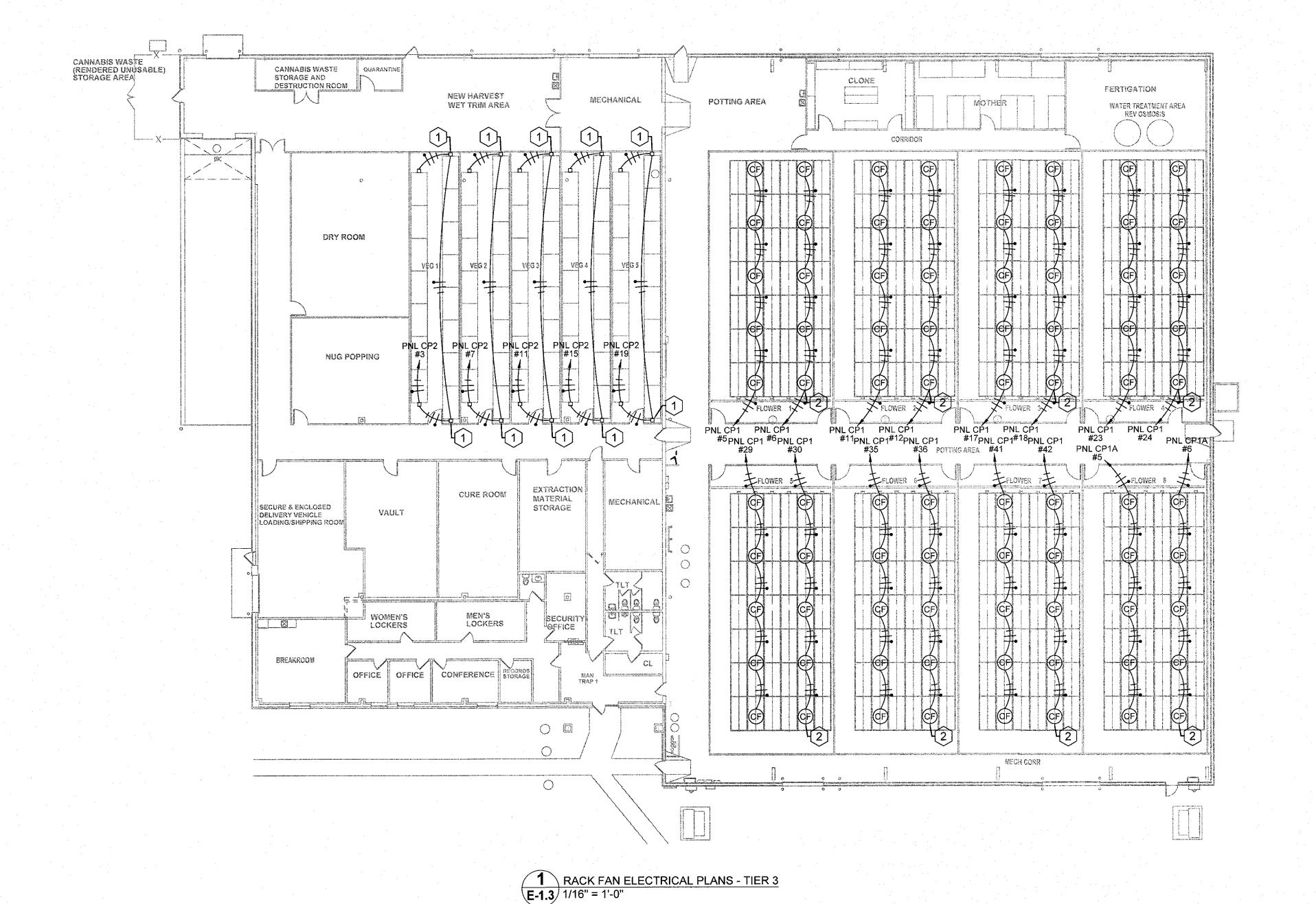
RACK FAN ELECTRICAL

PLAN - TIER 2

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE. ALL BACKBOXES SHALL BE STEEL.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED 🗵 NOTES:

- 1. VERTICAL AIR SOLUTIONS FANS AT END OF RACK. EACH RACK HAS (1) FAN. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED TO RACK. TYPICAL FOR THE TWO LOWER TIER OF RACKS IN THIS VEG ROOM. INSTALL (5) FANS ON A SINGLE 20A CIRCUIT.
- 2. NIVOLA CIRCULATION FAN, MODEL TVE-7 w/ V-9 FAN (120V) NIVOLATOR TO BE INSTALLED AT 27 FEET ABOVE FINISHED FLOOR. PROVIDE ELECTRICAL CONNECTIONS FOR FAN. TYPICAL OF ALL FANS IN THIS ROOM.





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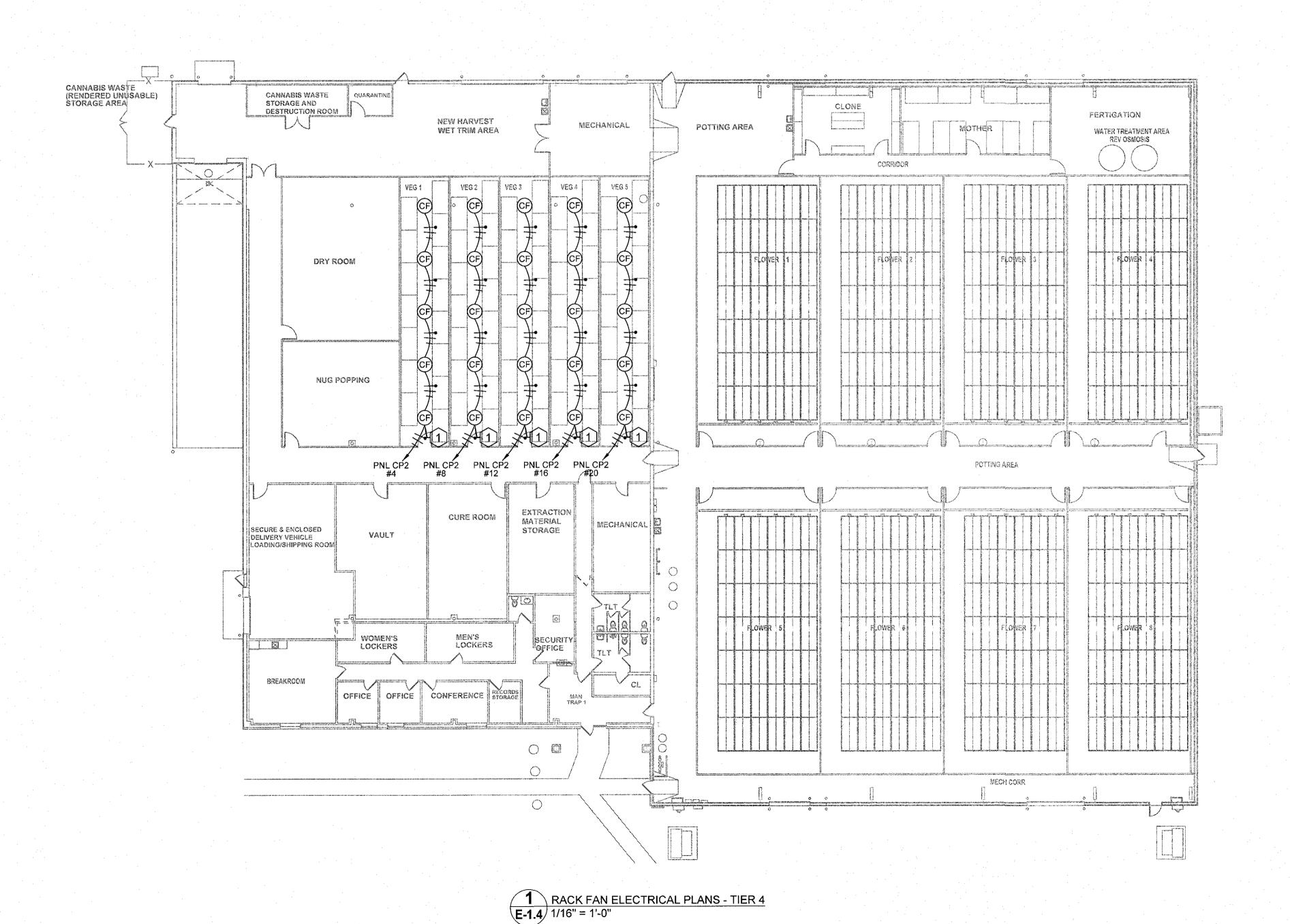
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RACK FAN ELECTRICAL PLAN - TIER 3

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE. ALL BACKBOXES SHALL BE STEEL.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED 🗵 NOTES:

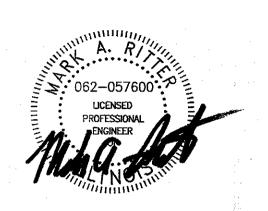
NIVOLA CIRCULATION FAN, MODEL TVE-7 w/ V-9 FAN
 (120V) NIVOLATOR TO BE INSTALLED AT 27 FEET ABOVE
 FINISHED FLOOR. PROVIDE ELECTRICAL CONNECTIONS
 FOR FAN. TYPICAL OF ALL FANS IN THIS ROOM.





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PROJECT NO. R21-049

DATE 12/10/21

CDB

KDW

DRAWN

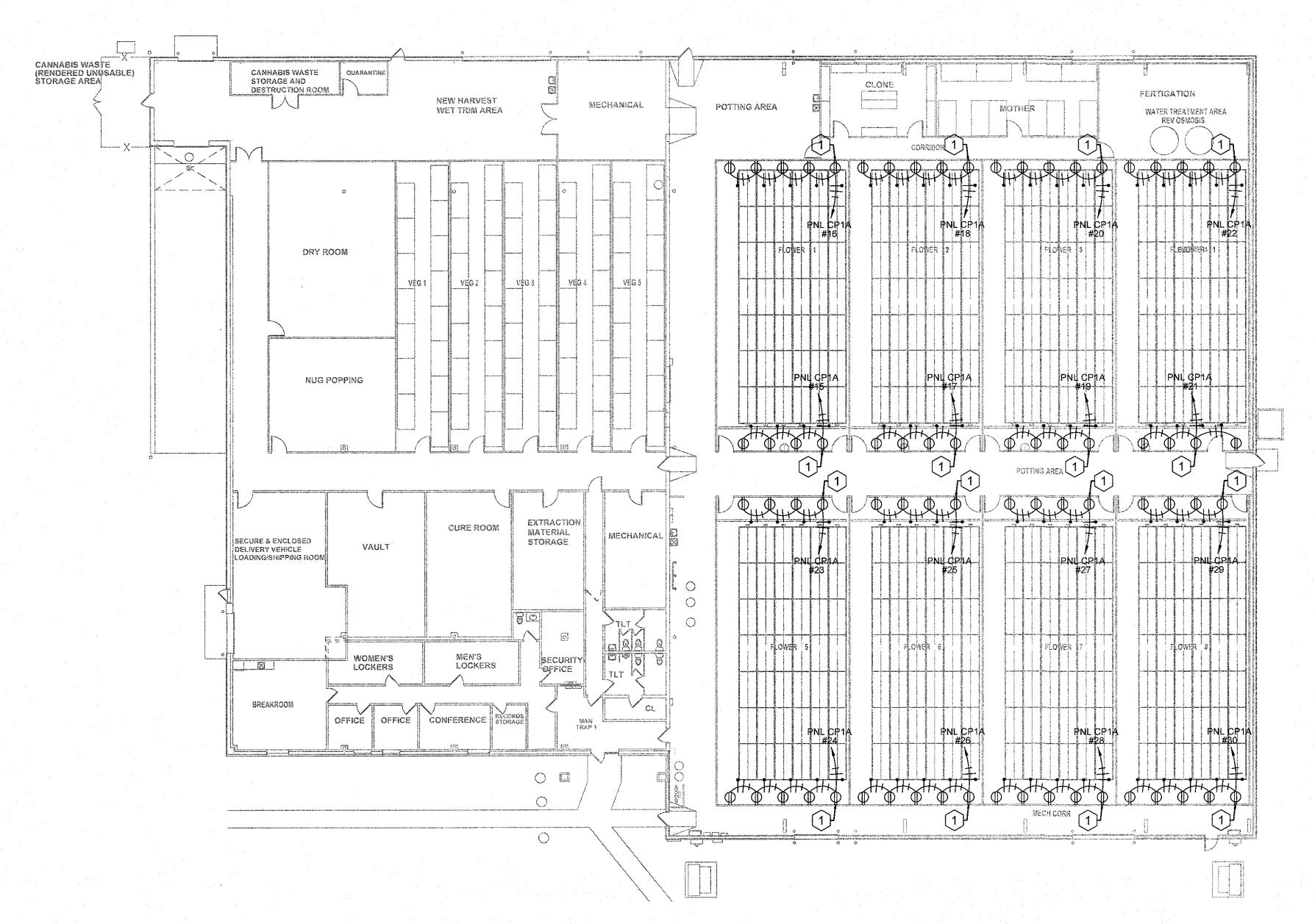
CHECKED

RACK FAN ELECTRICAL PLAN - TIER 4

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE. ALL BACKBOXES SHALL BE STEEL.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (S) NOTES:

1. PROVIDE GFI RECEPTACLE MOUNTED ON WALL APPROXIMATELY 96" A.F.F. FOR OWNER SUPPLIED OSCILLATING FAN. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER. (TYPICAL OF ALL RECEPTACLES SHOWN IN THIS ROOM).



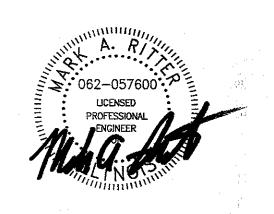
OSCILLATING FAN ELECTRICAL PLANS - TIER 2

1/16" = 1'-0"



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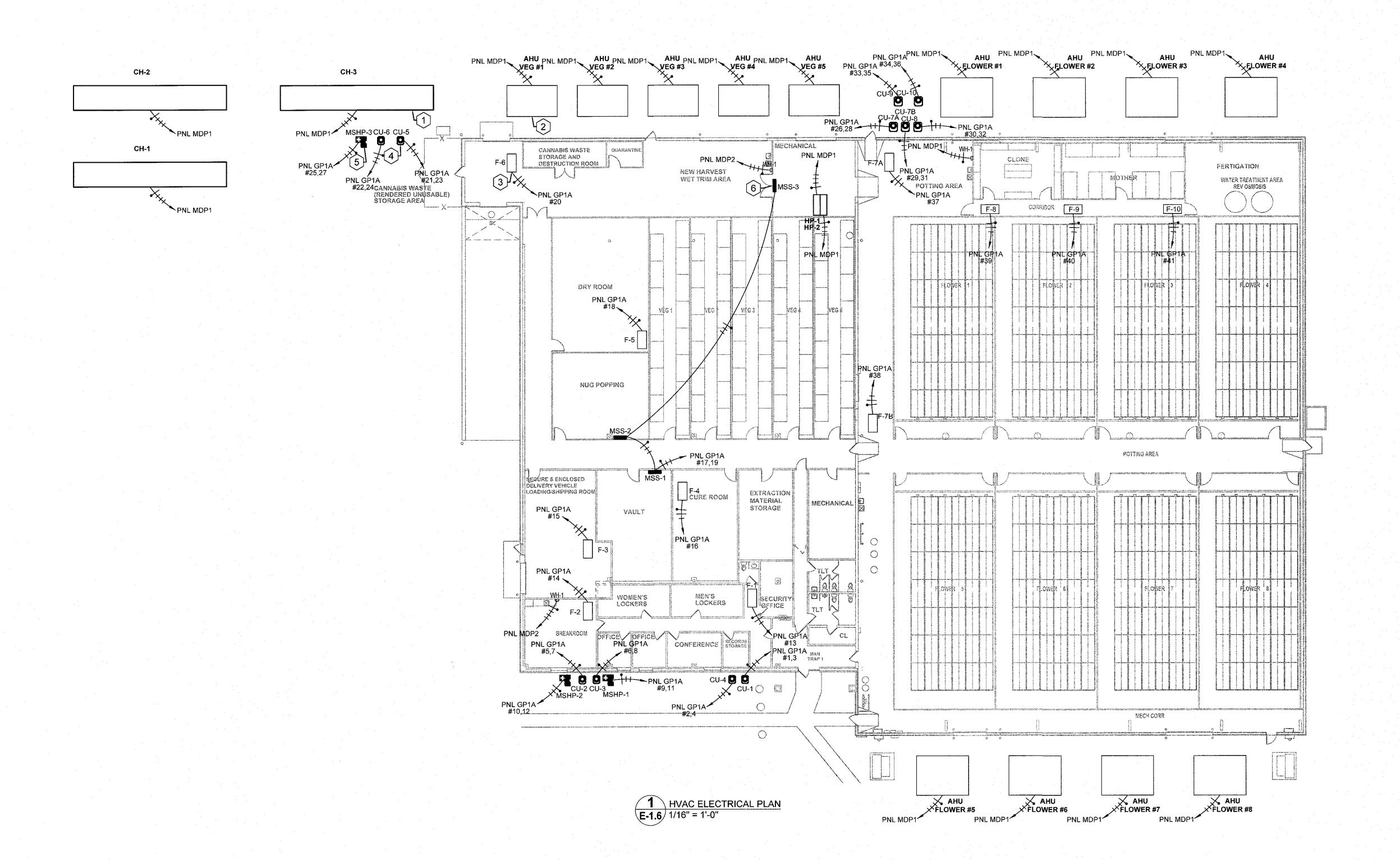
CHECKED

OSCILLATING FAN ELECTRICAL PLAN - TIER 2

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE. ALL BACKBOXES SHALL BE STEEL.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED (S) NOTES:

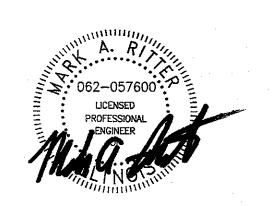
- 1. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR CHILLER. (TYPICAL OF ALL CHILLERS SHOWN ON THIS SHEET)
- 2. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR AIR HANDLING UNIT. (TYPICAL OF ALL AIR HANDLING UNITS SHOWN ON THIS SHEET)
- 3. PROVIDE TOGGLE TYPE DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR AFURNAACE. (TYPICAL OF ALL FURNACES SHOWN ON THIS SHEET)
- 4. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR AIR HANDLING UNIT. (TYPICAL OF ALL CONDENSING UNITS SHOWN ON THIS SHEET)
- 5. PROVIDE NEMA 3R DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR HEAT PUMP. (TYPICAL OF ALL HEAT PUMPS SHOWN ON THIS SHEET)
- 6. PROVIDE DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR HEAT PUMP WALL CASSETTE. (TYPICAL OF ALL WALL CASSETTES SHOWN ON THIS SHEET)





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CDB

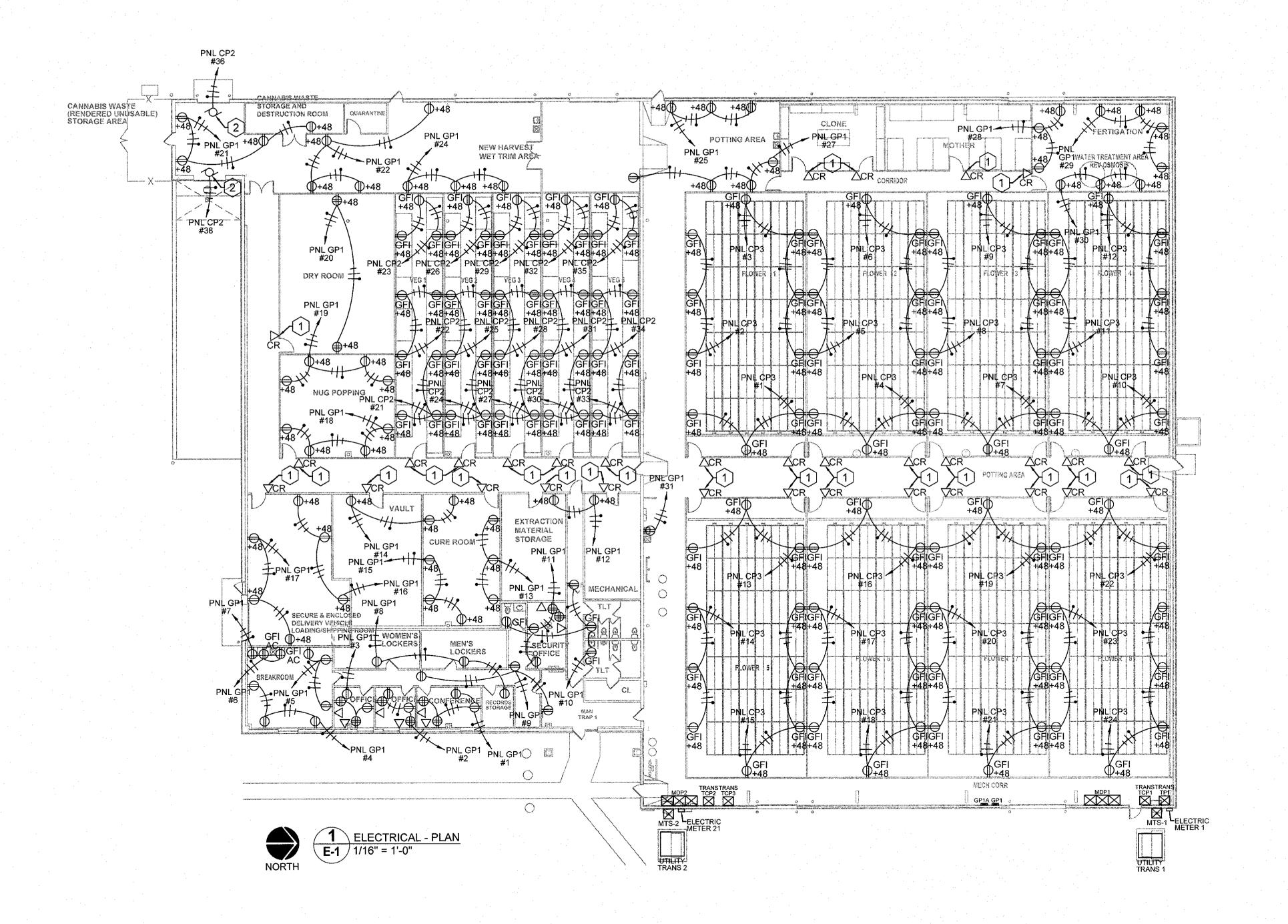
HVAC ELECTRICAL PLAN

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE. ALL BACKBOXES SHALL BE STEEL.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.

ELECTRICAL KEYED ® NOTES:

- INSTALL BLANK BOX AT NEW DOOR FOR CARD READER PROVIDED BY THE OWNERS REPRESENTATIVE.
 ROUTE A 3 /4" PVC CONDUIT FROM BLANK BOX BACK UP WALL AS HIGH AS PRACTICAL. PROVIDE PULL
 STRING IN CONDUIT.
- 2. PROVIDE TOGGLE TYPE DISCONNECT SWITCH AND ELECTRICAL CONNECTIONS FOR OVERHEAD DOOR OPERATOR. ROUTE WIRING TO OPENER AS REQUIRED.

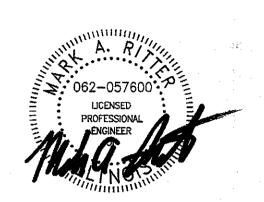
Γ		ELECTRICAL SYMBOLS LEGEND
٠ -		ELECTRICAL STRIBULS LLGLIND
	SYMBOL	DESCRIPTION
	Ф	DUPLEX RECEPTACLE
	⊕ GFI	GFI DUPLEX RECEPTACLE
	\$\Pi\$+48	DUPLEX RECEPTACLE INSTALLED 48" A.F.F.
	#	QUADPLEX RECEPTACLE
	∇	SINGLE GANG BACK BOX WITH 3/4" CONDUIT STUBBED TO ABOVE CEILING
		ELECTRICAL PANEL
	<u> </u>	ELECTRICAL WIRING IN CONDUIT





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ELECTRICAL PLAN

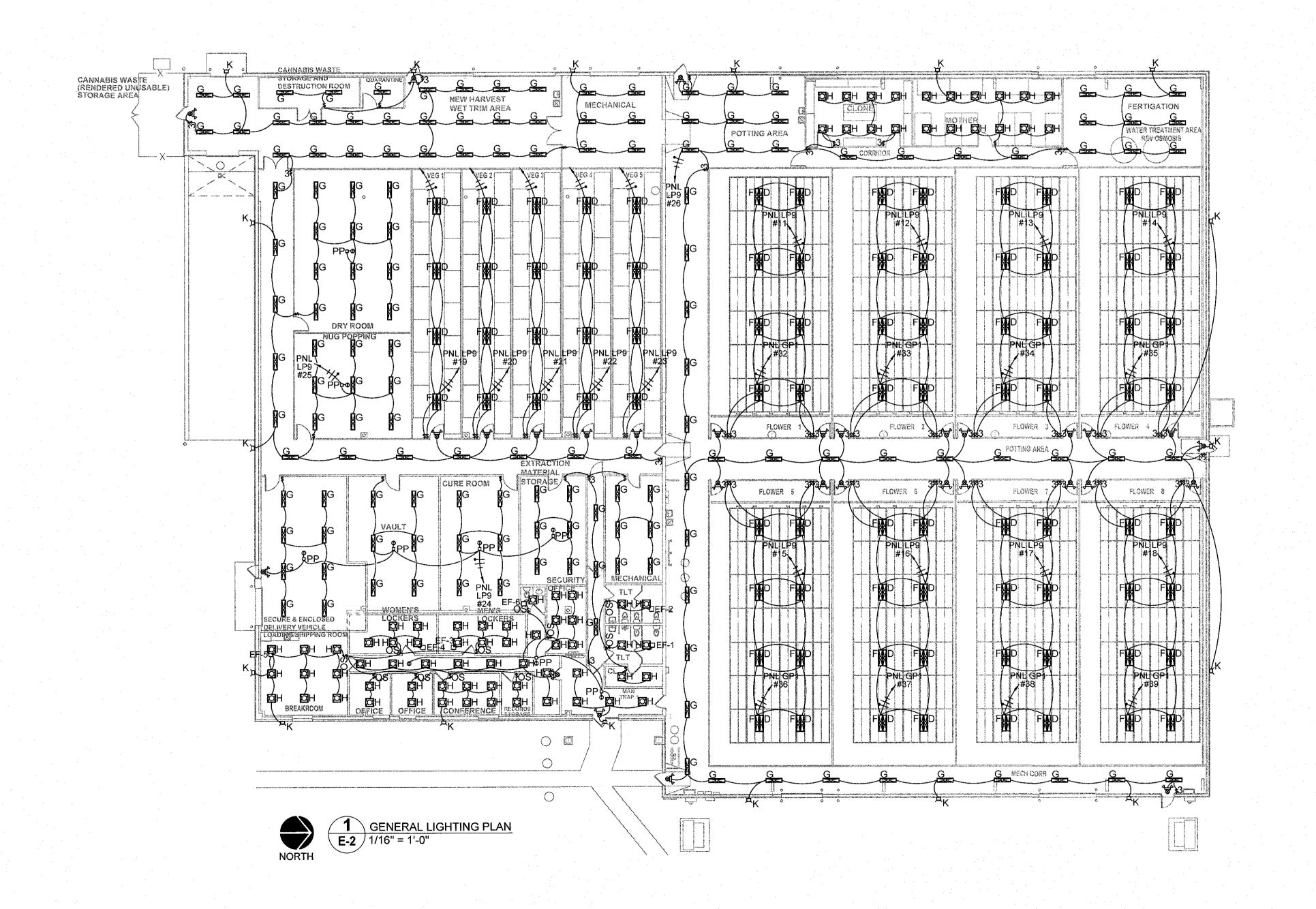
CHECKED

E-1

LIGHTING GENERAL NOTES:

- 1. PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE.
- 2. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM UNLESS SPECIFIED OTHERWISE.
- 3. ALL EXPOSED WIRING SHALL BE INSTALLED IN SURFACE MOUNTED PVC CONDUITS, 3/4" MINIMUM UNLESS SPECIFIED OTHERWISE. ALL WIRING CONCEALED WITHIN NEW WALLS AND ABOVE ACCESSIBLE CEILINGS SHALL BE PERMITTED TO BE MC CABLE.
- 4. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS.
- 5. ALL NON-GROW LIGHT FIXTURES SHALL BE INSTALLED AT 14 FT ABOVE FINISHED FLOOR IN ALL AREAS EXCEPT THE VEG AND FLOWER ROOMS. NON-GROW LIGHT FIXTURES IN VEG AND FLOWER ROOMS SHALL BE INSTALLED AT 28' A.F.F.

		LIGHTING SYMBOLS LEGEND
	SYMBOL	DESCRIPTION
,	\$	SINGLE POLE SWITCH
	\$3	THREE WAY SWITCH
	\$os	WALL OCCUPANCY SENSOR/SWITCH - SEE THE LIGHTING SCHEDULE
		2X2 LED LIGHT FIXTURE - SEE THE LIGHTING SCHEDULE
٠		4 FOOT LED LIGHT FIXTURE - SEE THE LIGHTING SCHEDULE
	A	LED GROW LIGHT FIXTURE - SEE THE LIGHTING SCHEDULE
	\otimes	EXIT SIGN - SEE THE LIGHTING SCHEDULE
	4	EMERGENCY LIGHT - SEE THE LIGHTING SCHEDULE
	×	ELECTRICAL PANEL
	/#/	ELECTRICAL WIRING IN CONDUIT





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CHECKED

GENERAL LIGHTING PLAN

E-2

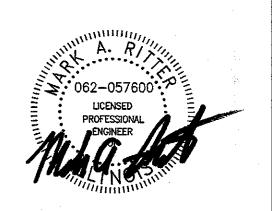
ELECTRICAL KEYED 🗵 NOTES:

- 1. TYPE "A" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN FLOWER ROOM.
- 2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
- 3. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN MOTHER ROOM.
- 4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.



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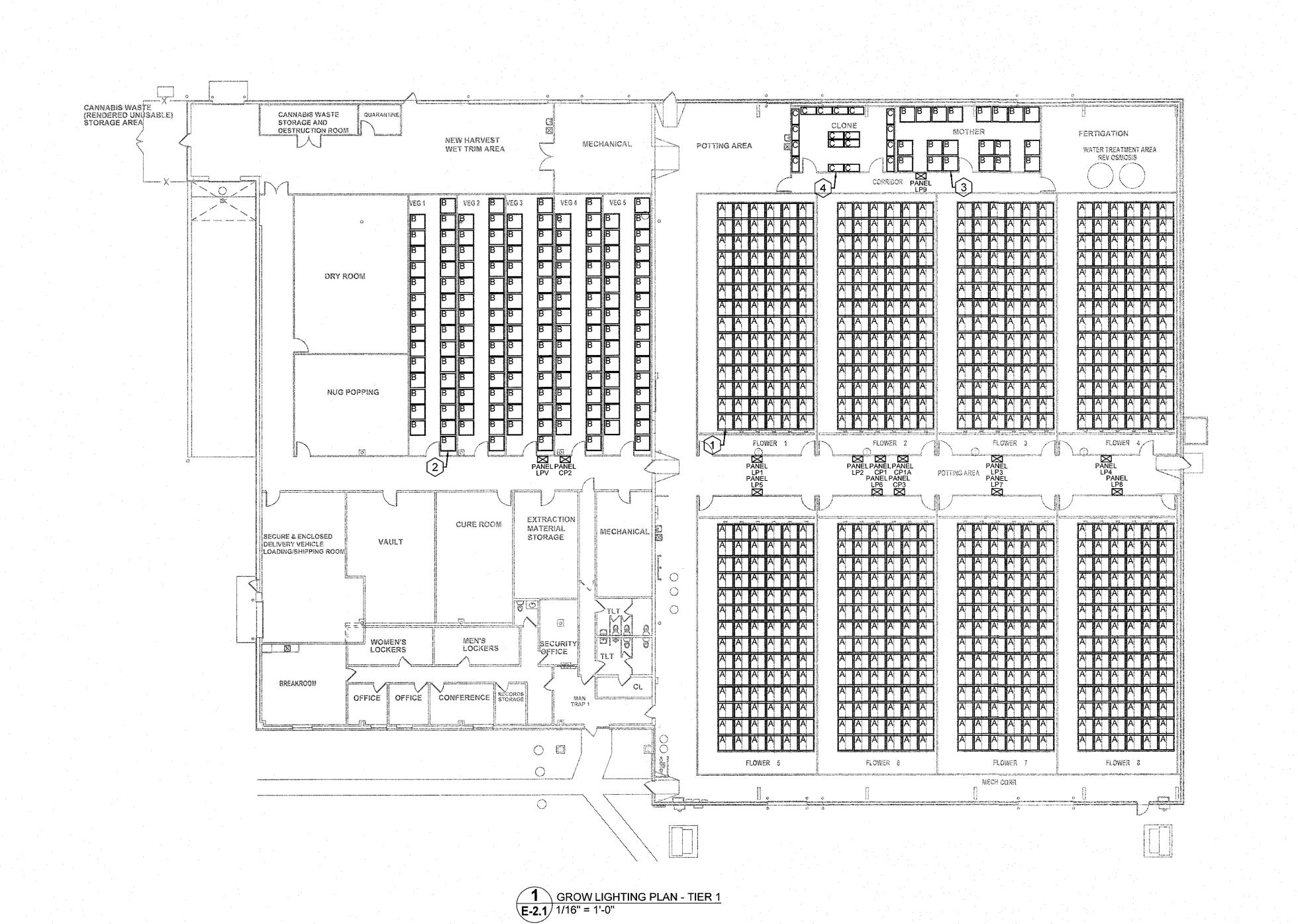
DATE 12/10/21

DRAWN CDB

CHECKED KDW

GROW LIGHTING PLAN - TIER 1

E-2.1



ELECTRICAL KEYED ® NOTES:

- 1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS)
- 2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS)



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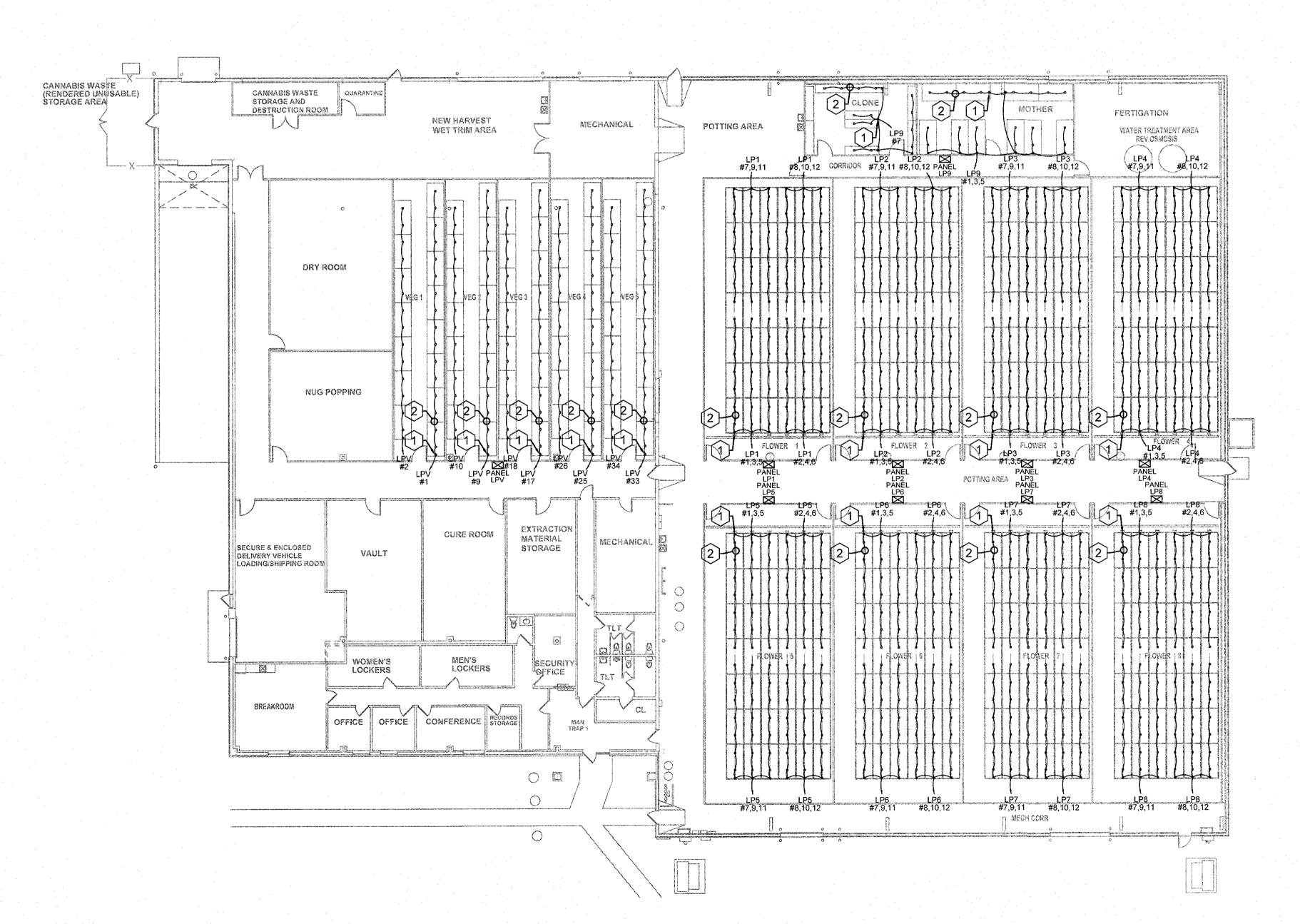
11/30/2023

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> **GROW LIGHTING** WIRING PLAN TIER 1

> > E-2.1A



1 GROW LIGHTING WIRING PLAN - TIER 1 E-2.1A 1/16" = 1'-0"

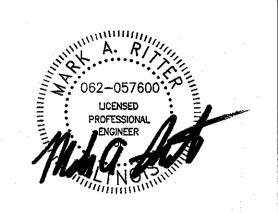
ELECTRICAL KEYED (X) NOTES:

- 1. TYPE "A" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN FLOWER ROOM.
- 2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
- 3. NOT USED..
- 4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.



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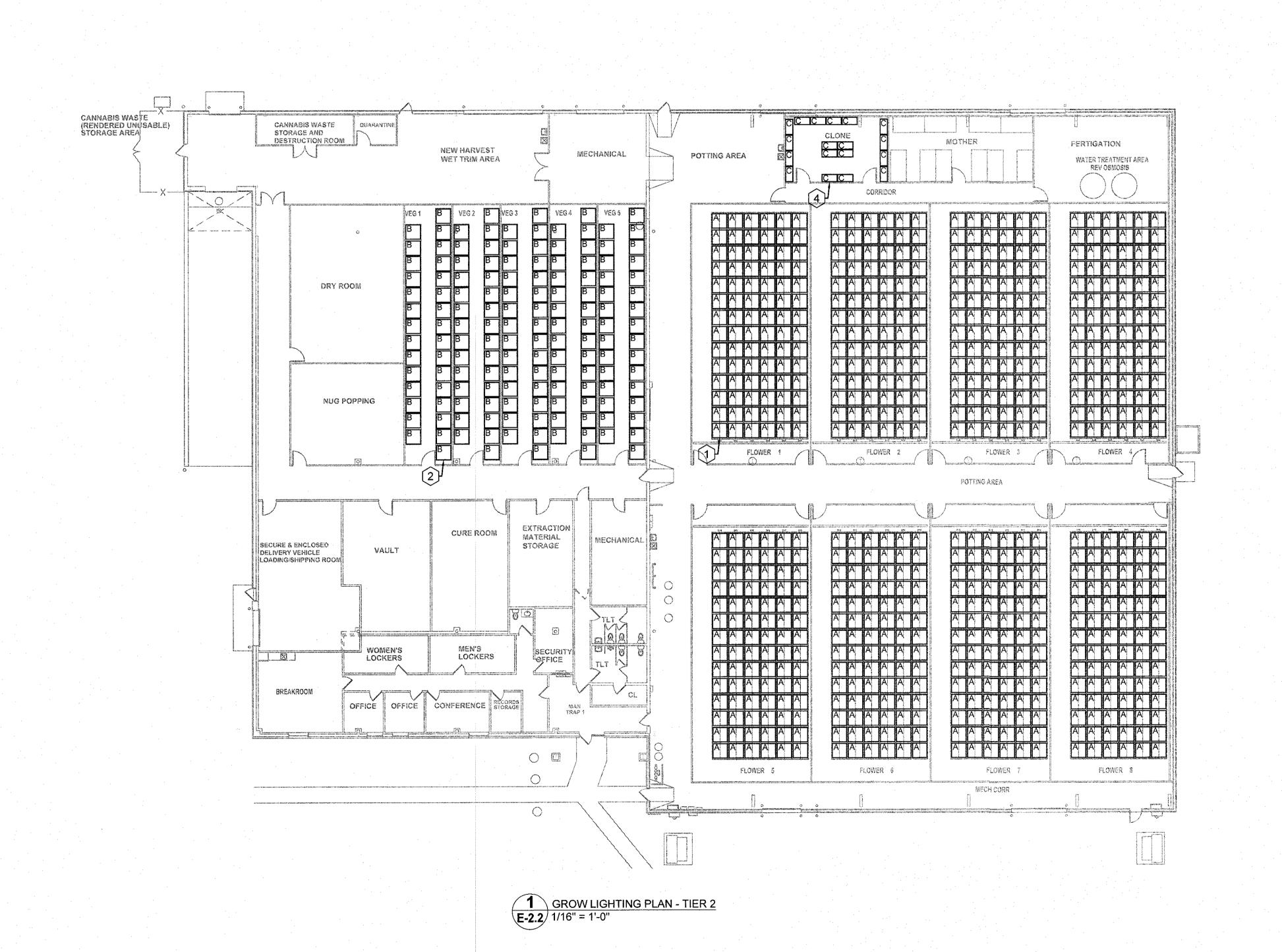
DATE 12/10/21

DRAWN CDB

CHECKED KDW

GROW LIGHTING PLAN - TIER 2

E-2.2



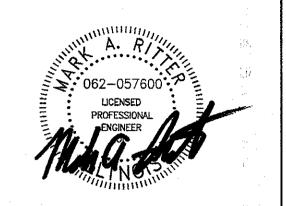
ELECTRICAL KEYED ® NOTES:

- 1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS) .
- 2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS)



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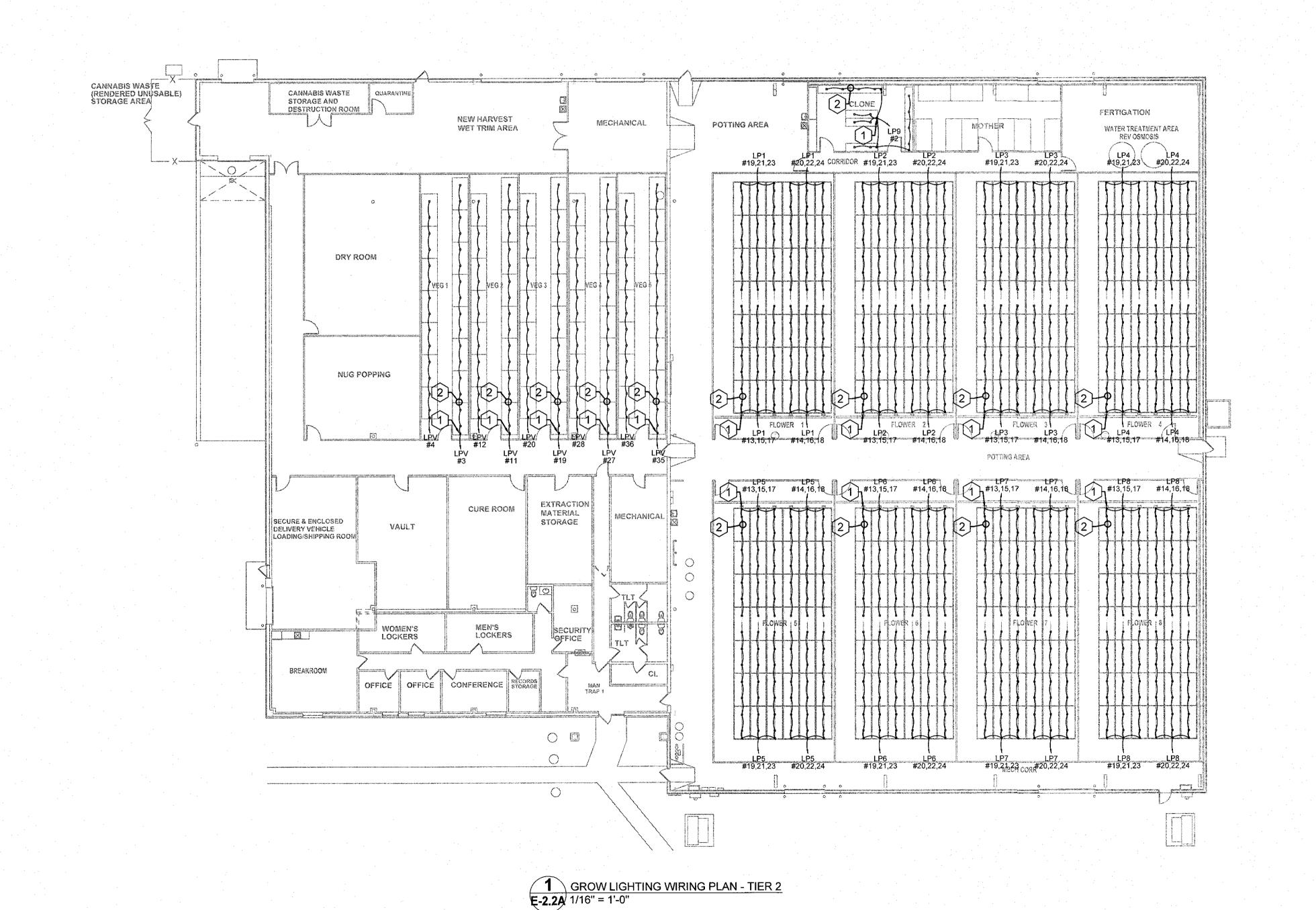
DRAWN

KDW

CHECKED

GROW LIGHTING WIRING PLAN TIER 2

E-2.2A



ELECTRICAL KEYED (S) NOTES:

- 1. TYPE "A" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN FLOWER ROOM.
- 2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
- 3. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN MOTHER ROOM.
- 4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.



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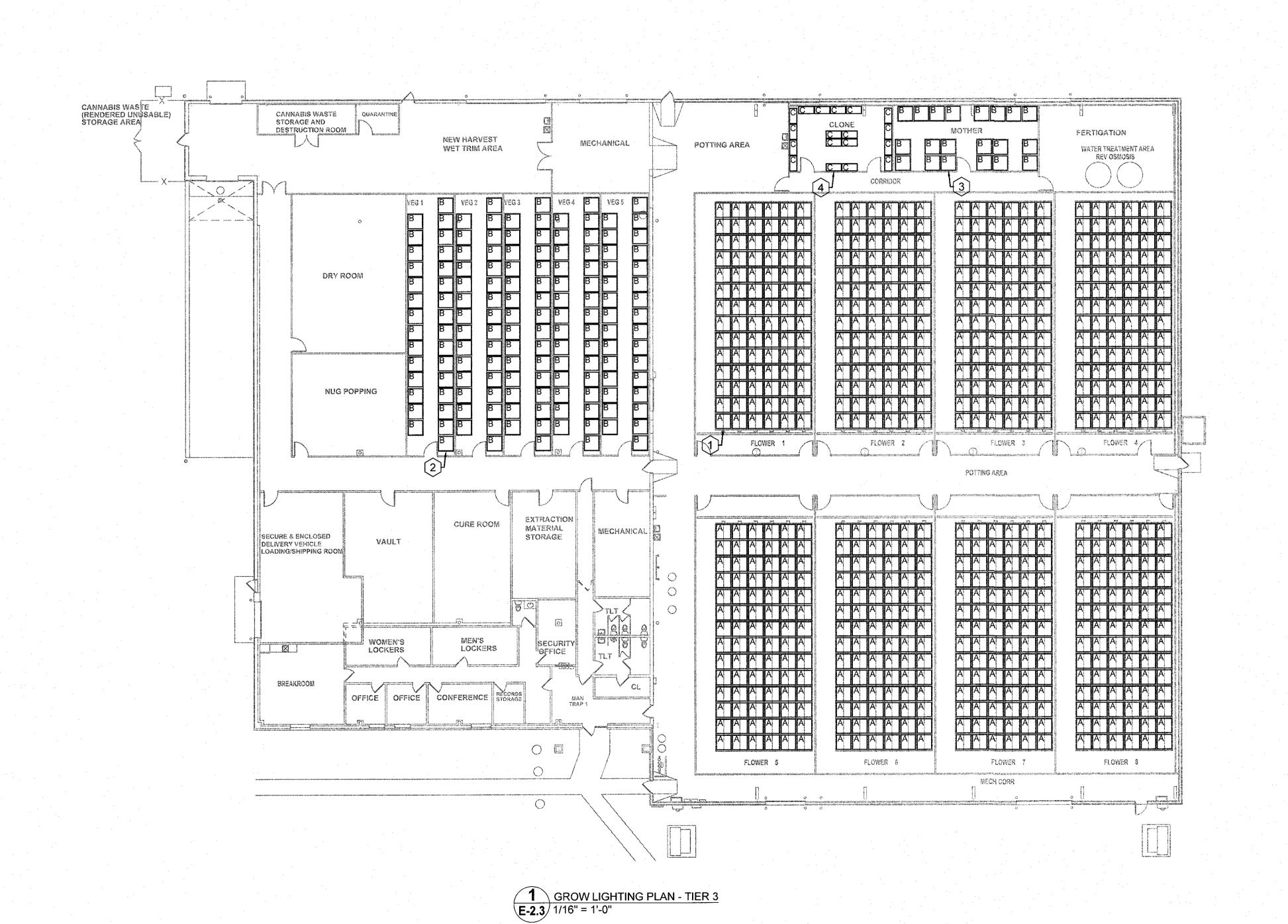
DATE 12/10/21

DRAWN CDB

CHECKED KDW

GROW LIGHTING PLAN - TIER 3

E-2.3



ELECTRICAL KEYED ® NOTES:

- 1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS).
- 2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS)



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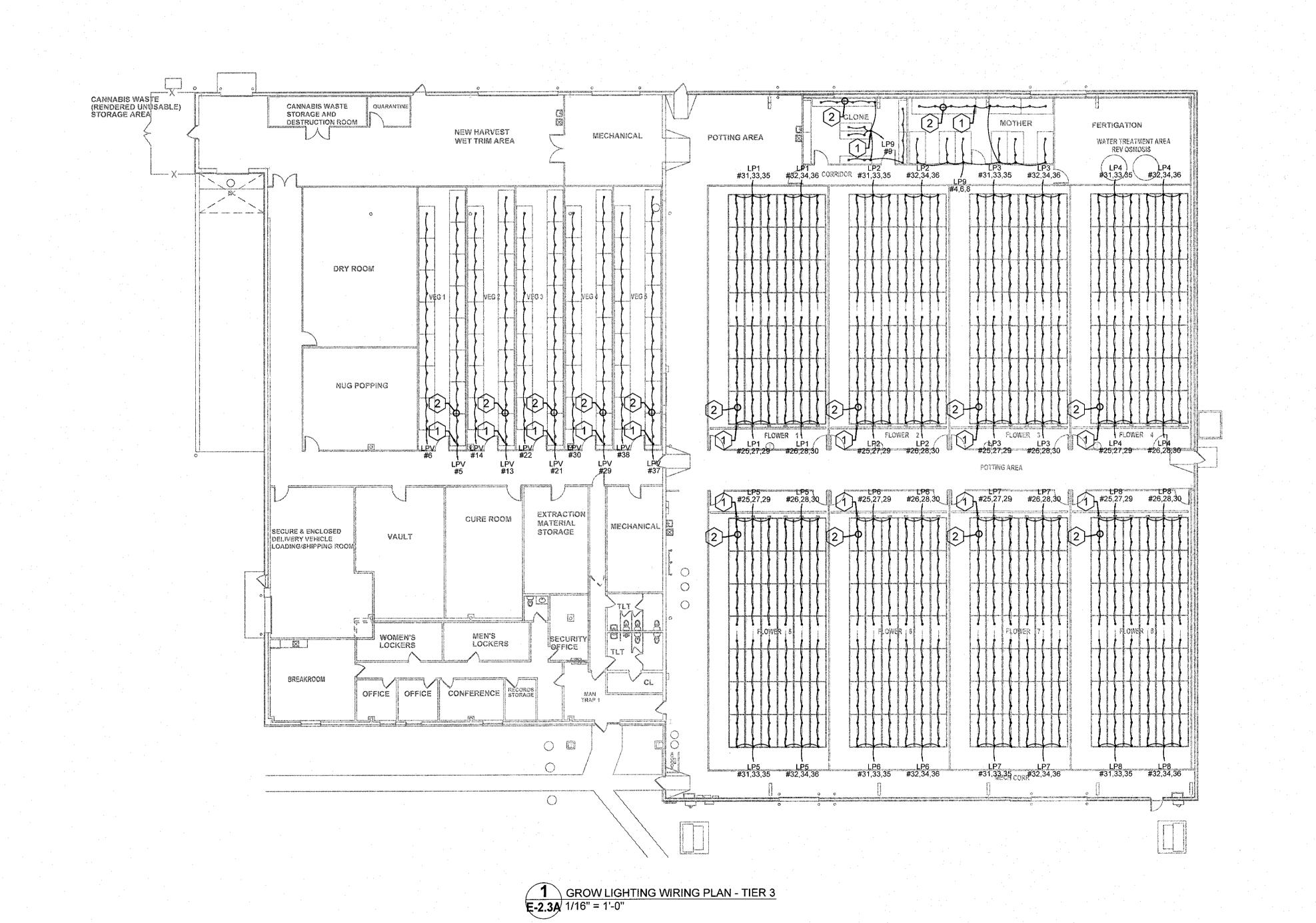
DRAWN CDB

CHECKED

GROW LIGHTING WIRING PLAN TIER 3

KDW

E-2.3A



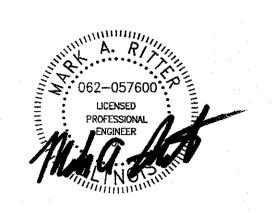
ELECTRICAL KEYED ® NOTES:

- 1. NOT USED.
- 2. TYPE "B" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN VEG ROOM.
- 3. NOT USED.
- 4. TYPE "C" GROW LIGHT FIXTURE MOUNTED TO RACK. TYPICAL OF ALL LIGHTS IN CLONE ROOM.



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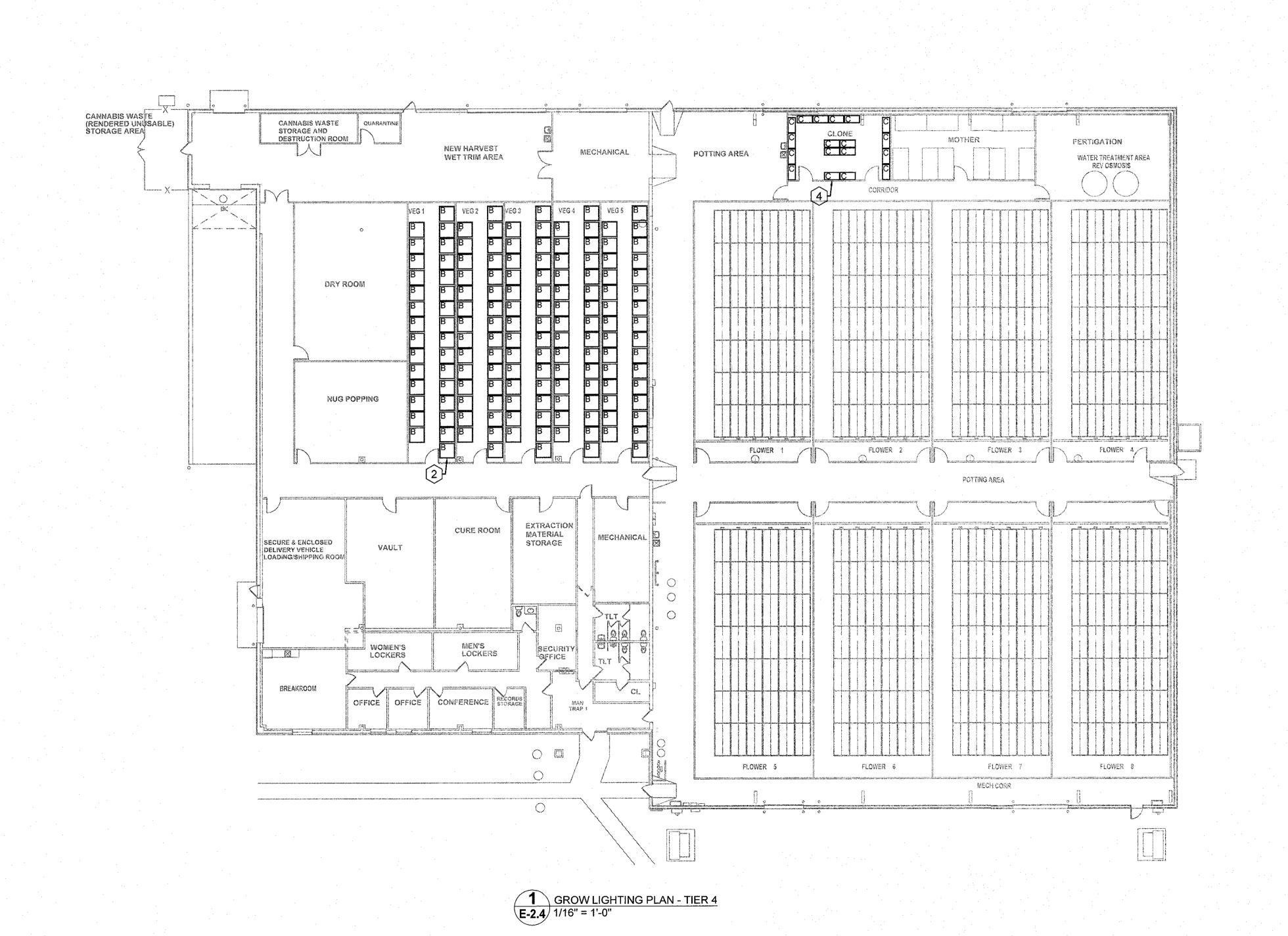
DATE 12/10/21

DRAWN CDB

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GROW LIGHTING PLAN - TIER 4

E-2.4



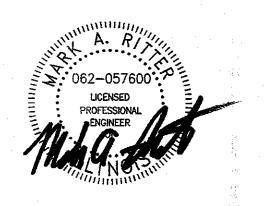
ELECTRICAL KEYED 🗵 NOTES:

- 1. PROVIDE JUNCTION BOX MOUNTED TO RACK. WIRING SHALL BE CONNECTED FROM LIGHT FIXTURE TO THE JUNCTION BOX WITH FLUENCE FLEX WIRING CONNECTOR. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS).
- 2. WIRING BETWEEN LIGHTS SHALL BE FLUENCE FLEX WIRING CONNECTORS. (TYPICAL OF ALL LIGHTS IN FLOWER, VEG, MOTHER AND CLONE ROOMS).



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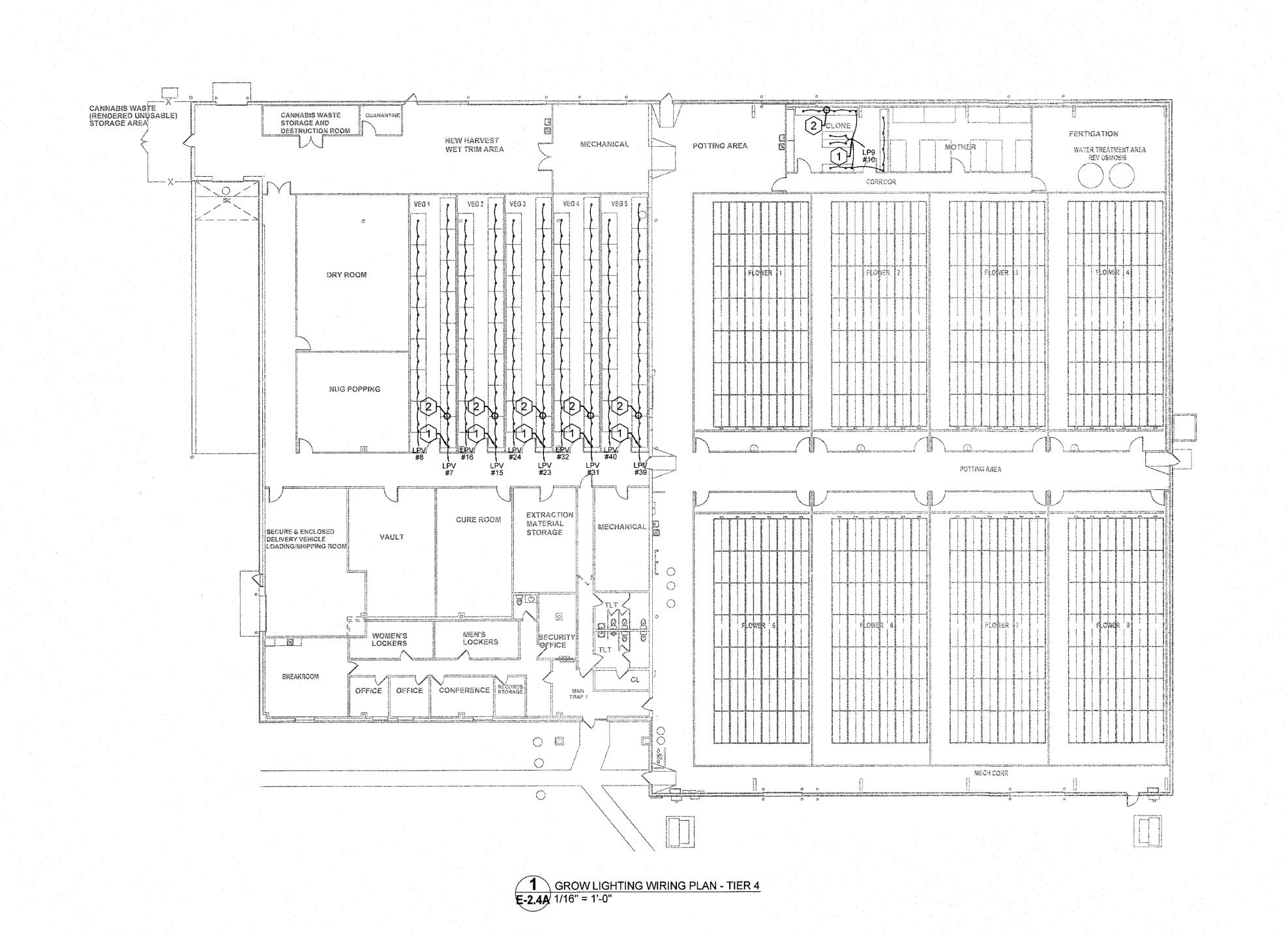
CHECKED

GROW LIGHTING WIRING PLAN

TIER 4

KDW

E-2.4A



Р	ANEI	SCHEDULE - PAN	EL L	P1
TAG: PANEL LP1 SURFACE MOUNTED PANELBOARD		A B C		7/480 VOLTS 3 PH 4 WIRE D AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP	CIRCUIT DESCRIPTION
FLOWER 1 - TIER 1 LIGHTS	20	1 2	20	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	3 — 4	20	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	5 - 6	20	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	7 - 8	20	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	9 — 10	20	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 1 LIGHTS	20	11 — 12	20	FLOWER 1 - TIER 1 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	13 — 14	20	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	15 — 16	20	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	17 — 18	20	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	19 20	20	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	21 22	20	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 2 LIGHTS	20	23 24	20	FLOWER 1 - TIER 2 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	25 26	20	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	27 — 28	20	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	29 30	20	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	31 32	20	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	33 — 34	20	FLOWER 1 - TIER 3 LIGHTS
FLOWER 1 - TIER 3 LIGHTS	20	35 — 36	20	FLOWER 1 - TIER 3 LIGHTS
SPARE	20	37 — 38	20	SPARE
SPARE	20	39 — 40	20	SPARE
SPARE	20	41 — 42	20	SPARE
÷		G N	PA	NEL RATING - 35 KAIC

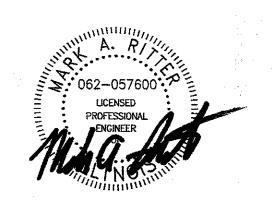
TAG: PANEL LP2 SURFACE MOUNTED PANELBOA	RD	<u>^</u>	. В С 		ļ	/480 VOLTS 3 PH 4 WIRE AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP			·	AMP	CIRCUIT DESCRIPTION
FLOWER 2 - TIER 1 LIGHTS	20	1		- 2	20	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	3	+	- 4	20	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	5		- 6	20	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	7 —		- 8	20	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	9 —	+ + -	10	20	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 1 LIGHTS	20	11 —	+	- 12	20	FLOWER 2 - TIER 1 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	13 —	++-	- 14	20	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	15 —	+	- 16	20	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	17 —		- 18	20	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	19 —		- 20	20	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	21 —		- 22	20	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 2 LIGHTS	20	23 —	-	- 24	20	FLOWER 2 - TIER 2 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	25 —		– 26	20	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	27 —	+	- 28	20	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	29 —	-	- 30	20	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	31 —		- 32	20	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	33 —	+	- 34	20	FLOWER 2 - TIER 3 LIGHTS
FLOWER 2 - TIER 3 LIGHTS	20	35 —	+	– 36	20	FLOWER 2 - TIER 3 LIGHTS
SPARE	20	37 —		- 38	20	SPARE
SPARE	20	39 —	+	- 40	20	SPARE
SPARE	20	41 —		- 42	20	SPARE

	PANEL	SCHEDUL	E - PAN	EL LI	P3
TAG: PANEL LP3 SURFACE MOUNTED PANELBOA	RD	A B	C		/480 VOLTS 3 PH 4 WIRE AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP			AMP	CIRCUIT DESCRIPTION
FLOWER 3 - TIER 1 LIGHTS	20	1		20	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	3	4	20	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	5	6	20	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	7	8	20	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	9	10	20	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 1 LIGHTS	20	11 —	12	20	FLOWER 3 - TIER 1 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	13	<u> </u>	20	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	15	<u> </u>	20	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	17	18	20	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	19		20	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	21		20	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 2 LIGHTS	20	23	24	20	FLOWER 3 - TIER 2 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	25		20	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	27		20	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	29	30	20	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	31		20	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	33	34	20	FLOWER 3 - TIER 3 LIGHTS
FLOWER 3 - TIER 3 LIGHTS	20	35	36	20	FLOWER 3 - TIER 3 LIGHTS
SPARE	20	37	38	20	SPARE
SPARE	20	39	40	20	SPARE
SPARE	20	41 —	42	20	SPARE
		G -	N	PAI	NEL RATING - 35 KAIC

F	PANEL	L SCHEDULE - PANEL LP4
TAG: PANEL LP4 SURFACE MOUNTED PANELBOAR	D .	A B C 277/480 VOLTS 3 PH 4 WIRE 400 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP	AMP CIRCUIT DESCRIPTION
FLOWER 4 - TIER 1 LIGHTS	20	1 2 20 FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	3 — 4 20 FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	5 6 20 FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	7 8 20 FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 1 LIGHTS	20	9
FLOWER 4 - TIER 1 LIGHTS	20	11 — 12 20 FLOWER 4 - TIER 1 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	13 — 14 20 FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 2 LIGHTS	20	15 ————————————————————————————————————
FLOWER 4 - TIER 2 LIGHTS	20	17 ————————————————————————————————————
FLOWER 4 - TIER 2 LIGHTS	20	19 20
FLOWER 4 - TIER 2 LIGHTS	20	21 ————————————————————————————————————
FLOWER 4 - TIER 2 LIGHTS	20	23 — 24 20 FLOWER 4 - TIER 2 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	25 — 26 20 FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	27 — 28 20 FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	29 — 30 20 FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	31 ————————————————————————————————————
FLOWER 4 - TIER 3 LIGHTS	20	33 — 34 20 FLOWER 4 - TIER 3 LIGHTS
FLOWER 4 - TIER 3 LIGHTS	20	35 — 36 20 FLOWER 4 - TIER 3 LIGHTS
SPARE	20	37 — 38 20 SPARE
SPARE	20	39 — 40 20 SPARE
SPARE	20	41 — 42 20 SPARE
		G N PANEL RATING - 35 KAIC



ILLINOIS DESIGN FIRM 184.006312



SIGNATURE 12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

GRI Holdings, LLC 740 Schneider South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

DRAWN CDB

CHECKED KDW

ELECTRICAL SCHEDULES

E-3

F	PANEL	SCHEDU	ILE -	PAN	EL LI	P5
TAG: PANEL LP5 SURFACE MOUNTED PANELBOAR	D	A E	3 C	·		7/480 VOLTS 3 PH 4 WIRE MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP				AMP	CIRCUIT DESCRIPTION
FLOWER 5 - TIER 1 LIGHTS	20	1 _		2	20	FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	3		4	20	FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	5	-	` 6	20	FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	7		8	20	FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	9		10	20	FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 1 LIGHTS	20	11 —		12	20	FLOWER 5 - TIER 1 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	13 —		 14	20	FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	15 —		 16	20	FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	17 —	_	18	20	FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	19 —		20	20	FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	21 —	-	22	20	FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 2 LIGHTS	20	23 —	_	24	20	FLOWER 5 - TIER 2 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	25		26	20	FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	27 —	-	28	20	FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	29	-	30	20	FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	31 —		 32	20	FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	33	+	34	20	FLOWER 5 - TIER 3 LIGHTS
FLOWER 5 - TIER 3 LIGHTS	20	35 —		` — 36	20	FLOWER 5 - TIER 3 LIGHTS
SPARE	20	37		38	20	SPARE
SPARE	20	39 —		` — 40	20	SPARE
SPARE	20	41 —	—	42	20	SPARE
		G —		N 	PAI	NEL RATING - 35 KAIC

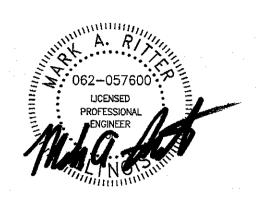
TAG: PANEL LP6 SURFACE MOUNTED PANELBOA	RD	F	A В	C			/480 VOLTS 3 PH 4 WIRE AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP					AMP	CIRCUIT DESCRIPTION
FLOWER 6 - TIER 1 LIGHTS	20	1 —		<u> </u>	_ 2	20	FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	3 —	+		4	20	FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	5 —		-	 6	20	FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	7	-	 	8	20	FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	9	-	<u> </u>	<u> </u>	20	FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 1 LIGHTS	20	11 —	<u> </u>		 12	20	FLOWER 6 - TIER 1 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	13 —	-	 	— 14	20	FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	15 —		 	16	20	FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	17 —	-	—	<u> </u>	20	FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	19 —	-	 	20	20	FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	21 —	-	 	22	20	FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 2 LIGHTS	20	23 —		-	24	20	FLOWER 6 - TIER 2 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	25 —	-	 	26	20	FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	27 —	-	 	28	20	FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	29 —		-	— 30	20	FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	31 —			32	20	FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	33 —	-		34	20	FLOWER 6 - TIER 3 LIGHTS
FLOWER 6 - TIER 3 LIGHTS	20	35 —		-	 36	20	FLOWER 6 - TIER 3 LIGHTS
SPARE	20	37 —	-		38	20	SPARE
SPARE	20	39 —	-	_	 40	20	SPARE
SPARE	20	41 —		•	42	20	SPARE

	PANE	SCHE	DULE	- PANI	EL LI	P7	
TAG: PANEL LP7 SURFACE MOUNTED PANELBOA	RD	ļ.	В C			/480 VOLTS AMPS	3 PH 4 WIRE MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP				AMP	CIRCUIT DES	CRIPTION
FLOWER 7 - TIER 1 LIGHTS	20	1 —	-	2	20	FLOWER 7 - TI	ER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	3 —	+-	4	20	FLOWER 7 - TI	ER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	5 —		<u> </u>	20	FLOWER 7 - TI	ER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	7		8	20	FLOWER 7 - TI	ER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	9	+ -	10	20	FLOWER 7 - TI	ER 1 LIGHTS
FLOWER 7 - TIER 1 LIGHTS	20	11 —	-	12	20	FLOWER 7 - TI	ER 1 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	13 —	-	<u> </u>	20	FLOWER 7 - TI	ER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	15 —	-	16	20	FLOWER 7 - TI	ER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	17 —		18	20	FLOWER 7 - TI	ER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	19 —			20	FLOWER 7 - TI	ER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	21 —	++-		20	FLOWER 7 - TI	ER 2 LIGHTS
FLOWER 7 - TIER 2 LIGHTS	20	23 —	+-	24	20	FLOWER 7 - TI	ER 2 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	25 —	-	26	20	FLOWER 7 - TI	ER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	27 —	+	28	20	FLOWER 7 - TI	ER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	29 —			20	FLOWER 7 - TI	ER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	31 —		32	20	FLOWER 7 - TI	ER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	33 —	++-	34	20	FLOWER 7 - TI	ER 3 LIGHTS
FLOWER 7 - TIER 3 LIGHTS	20	35 —		36	20	FLOWER 7 - TI	ER 3 LIGHTS
SPARE	20	37 —	-	38	20	SPARE	
SPARE	20	39 —	+ -		20	SPARE	w <u>.</u>
SPARE	20	41 —	-		20	SPARE	
		G -		N —	PAN	NEL RATING - 35	KAIC

F	PANEL	SCHEDU	LE - P	ANI	EL LI	P8
TAG: PANEL LP8 SURFACE MOUNTED PANELBOAR	D .	A B	C			/480 VOLTS 3 PH 4 WIRE AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP				AMP	CIRCUIT DESCRIPTION
FLOWER 8 - TIER 1 LIGHTS	20	1		- 2	20	FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	3		- 4	20	FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	5		- 6	20	FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	7		- 8	20	FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	9		- 10	20	FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 1 LIGHTS	20	11 —		- 12	20	FLOWER 8 - TIER 1 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	13		14	20	FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	15	+-	– 16	20	FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	17 —		- 18	20	FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	19 —	+	- 20	20	FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	21 —		- 22	20	FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 2 LIGHTS	20	23	_	- 24	20	FLOWER 8 - TIER 2 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	25 —		– 26	20	FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	27 —		- 28	20	FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	29		- 30	20	FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	31		- 32	20	FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	33		- 34	20	FLOWER 8 - TIER 3 LIGHTS
FLOWER 8 - TIER 3 LIGHTS	20	35		- 36	20	FLOWER 8 - TIER 3 LIGHTS
SPARE	20	37		- 38	20	SPARE
SPARE	20	39		- 40	20	SPARE
SPARE	20	41 —		- 42	20	SPARE
		G -		N 	PAI	NEL RATING - 35 KAIC



ILLINOIS DESIGN FIRM 184.006312



12/10/2021

DATE

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LICENSE EXPIRES

GRI Holdings, LLC 740 Schneider South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

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ELECTRICAL SCHEDULES

P.	ANEI	L SCHEDULE - PAN	EL L	P9
TAG: PANEL LP9 SURFACE MOUNTED PANELBOARD		A B C		7/480 VOLTS 3 PH 4 WIRE 3 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP		AMP	CIRCUIT DESCRIPTION
MOTHER TIER 1 LIGHTS	20	1 2	20	CLONE TIER 2 LIGHTS
MOTHER TIER 1 LIGHTS	20	3 - 4	20	MOTHER TIER 3 LIGHTS
MOTHER TIER 1 LIGHTS	20	56	20	MOTHER TIER 3 LIGHTS
CLONE TIER 1 LIGHTS	20	7 - 8	20	MOTHER TIER 3 LIGHTS
CLONE TIER 3 LIGHTS	20	9 — 10	20	CLONE TIER 4 LIGHTS
FLOWER 1 LIGHTING	20	11 — 12	20	FLOWER 2 LIGHTING
FLOWER 3 LIGHTING	20	13 — 14	20	FLOWER 4 LIGHTING
FLOWER 5 LIGHTING	20	15 — 16	20	FLOWER 6 LIGHTING
FLOWER 8 LIGHTING	20	17 — 18	20	FLOWER 8 LIGHTING
VEG 1 LIGHTING	20	19 20	20	VEG 2 LIGHTING
VEG 3 LIGHTING	20	21 22	20	VEG 5 LIGHTING
VEG 5 LIGHTING	20	23 24	20	OFFICES/VAULT/CURE LIGHTING
WET TRIM AREA/CORR LIGHTING	20	25 26	20	POTTING/FERT/CORR LIGHTING
SPARE	20	27 — 28	20	SPARE
SPARE	20	29 — 30	20	SPARE
SPARE	20	31 — 32	20	SPARE
SPARE	20	33 — 34	20	SPARE
SPARE	20	35 — 36	20	SPARE
SPARE	20	37 — 38	20	SPARE
SPARE	20	39 — 40	20	SPARE
SPARE	20	41 — 42	20	SPARE
		G N	PA	NEL RATING - 35 KAIC

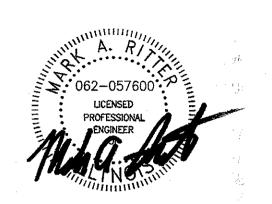
TAG: PANEL CP1 SURFACE MOUNTED PANELBOARD		A B	c)/208 VOLTS 3 PH 4 WIRE AMPS MAIN BREAKER
CIRCUIT DESCRIPTION	AMP		400/3	AMP	CIRCUIT DESCRIPTION
FLOWER 1 - TIER 1 FANS	20	1 -		20	FLOWER 1 - TIER 1 FANS
FLOWER 1 - TIER 2 FANS	20	3	4	20	FLOWER 1 - TIER 2 FANS
FLOWER 1 - TIER 3 FANS	20	5	6	20	FLOWER 1 - TIER 3 FANS
FLOWER 2 - TIER 1 FANS	20	7	8	20	FLOWER 2 - TIER 1 FANS
FLOWER 2 - TIER 2 FANS	20	9	10	20	FLOWER 2 - TIER 2 FANS
FLOWER 2 - TIER 3 FANS	20	11 —	12	20	FLOWER 2 - TIER 3 FANS
FLOWER 3 - TIER 1 FANS	20	13	14	20	FLOWER 3 - TIER 1 FANS
FLOWER 3 - TIER 2 FANS	20	15	16	20	FLOWER 3 - TIER 2 FANS
FLOWER 3 - TIER 3 FANS	20	17	18	20	FLOWER 3 - TIER 3 FANS
FLOWER 4 - TIER 1 FANS	20	19 —	20	20	FLOWER 4 - TIER 1 FANS
FLOWER 4 - TIER 2 FANS	20	21 —		20	FLOWER 4 - TIER 2 FANS
FLOWER 4 - TIER 3 FANS	20	23	24	20	FLOWER 4 - TIER 3 FANS
FLOWER 5 - TIER 1 FANS	20	25		20	FLOWER 5 - TIER 1 FANS
FLOWER 5 - TIER 2 FANS	20	27		20	FLOWER 5 - TIER 2 FANS
FLOWER 5 - TIER 3 FANS	20	29	30	20	FLOWER 5 - TIER 3 FANS
FLOWER 6 - TIER 1 FANS	20	31	32	20	FLOWER 6 - TIER 1 FANS
FLOWER 6 - TIER 2 FANS	20	33	34	20	FLOWER 6 - TIER 2 FANS
FLOWER 6 - TIER 3 FANS	20	35	36	20	FLOWER 6 - TIER 3 FANS
FLOWER 7 - TIER 1 FANS	20	37	38	20	FLOWER 7 - TIER 1 FANS
FLOWER 7 - TIER 2 FANS	20	39	40	20	FLOWER 7 - TIER 2 FANS
FLOWER 7 - TIER 3 FANS	20	41	- 42	20	FLOWER 7 - TIER 3 FANS

			ILE - P				
TAG: PANEL LPV SURFACE MOUNTED PANELBOA	ARD	A E	з с 			/480 VOLTS AMPS	3 PH 4 WIRE MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP				AMP	CIRCUIT DES	CRIPTION
VEG 1 - TIER 1 LIGHTS	20	1		- 2	20	VEG 1 - TIER	LIGHTS
VEG 1 - TIER 2 LIGHTS	20	3		- 4	20	VEG 1 - TIER 2	LIGHTS
VEG 1 - TIER 1 LIGHTS	20	5	_	- 6	20	VEG 1 - TIER (B LIGHTS
VEG 1 - TIER 4 LIGHTS	20	7		- 8	20	VEG 1 - TIER 4	LIGHTS
VEG 2 - TIER 1 LIGHTS	20	9		- 10	20	VEG 2 - TIER	LIGHTS
VEG 2 - TIER 2 LIGHTS	20	11 —	_	- 12	20	VEG 2 - TIER 2	LIGHTS
VEG 2 - TIER 1 LIGHTS	20	13 —	<u> </u>	- 14	20	VEG 2 - TIER 3	LIGHTS
VEG 2 - TIER 4 LIGHTS	20	15 —		- 16	20	VEG 2 - TIER 4	LIGHTS
VEG 3 - TIER 1 LIGHTS	20	17 —	—	- 18	20	VEG 3 - TIER	LIGHTS
VEG 3 - TIER 2 LIGHTS	20	19 —		- 20	20	VEG 3 - TIER 2	LIGHTS
VEG 3 - TIER 1 LIGHTS	20	21 —		- 22	20	VEG 3 - TIER (B LIGHTS
VEG 3 - TIER 4 LIGHTS	20	23 —		– 24	20	VEG 3 - TIER 4	LIGHTS
VEG 4 - TIER 1 LIGHTS	20	25 —		– 26	20	VEG 4 - TIER	I LIGHTS
VEG 4 - TIER 2 LIGHTS	20	27		– 28	20	VEG 4 - TIER 2	LIGHTS
VEG 4 - TIER 1 LIGHTS	20	29		- 30	20	VEG 4 - TIER :	B LIGHTS
VEG 4 - TIER 4 LIGHTS	20	31		- 32	20	VEG 4 - TIER 4	LIGHTS
VEG 5 - TIER 1 LIGHTS	20	33	<u> </u>	- 34	20	VEG 5 - TIER	I LIGHTS
VEG 5 - TIER 2 LIGHTS	20	35 —		– 36	20	VEG 5 - TIER 2	2 LIGHTS
VEG 5 - TIER 1 LIGHTS	20	37		- 38	20	VEG 5 - TIER :	3 LIGHTS
VEG 5 - TIER 4 LIGHTS	20	39 —		- 40	20	VEG 5 - TIER	1 LIGHTS
SPARE	20	41 —		- 42	20	SPARE	

PA	NEL	SCHEDU	LE - I	PANE	L CF	P1A
TAG: PANEL CP1A SURFACE MOUNTED PANELBOARD		A B C				0/208 VOLTS 3 PH 4 WIRE 0 AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP				AMP	CIRCUIT DESCRIPTION
FLOWER 8 - TIER 1 FANS	20	1 —		2	20	FLOWER 8 - TIER 1 FANS
FLOWER 8 - TIER 2 FANS	20	3	+	4	20	FLOWER 8 - TIER 2 FANS
FLOWER 8 - TIER 3 FANS	20	5	+	6	20	FLOWER 8 - TIER 3 FANS
FLOWER 1 CONTROL PANEL	20	7		8	20	FLOWER 2 CONTROL PANEL
FLOWER 3 CONTROL PANEL	20	9 —	-	10	20	FLOWER 4 CONTROL PANEL
FLOWER 5 CONTROL PANEL	20	11 —	-	12	20	FLOWER 6 CONTROL PANEL
FLOWER 7 CONTROL PANEL	20	13 —		14	20	FLOWER 8 CONTROL PANEL
FLOWER 1 - OSCILLATING FANS	20	15 —	—	16	20	FLOWER 1 - OSCILLATING FANS
FLOWER 2 - OSCILLATING FANS	20	17 —		18	20	FLOWER 2 - OSCILLATING FANS
FLOWER 3 - OSCILLATING FANS	20	19 —		20	20	FLOWER 3 - OSCILLATING FANS
FLOWER 4 - OSCILLATING FANS	20	21 —	+	22	20	FLOWER 4 - OSCILLATING FANS
FLOWER 5 - OSCILLATING FANS	20	23 —	-	24	20	FLOWER 5 - OSCILLATING FANS
FLOWER 6 - OSCILLATING FANS	20	25 —		26	20	FLOWER 6 - OSCILLATING FANS
FLOWER 7 - OSCILLATING FANS	20	27 —	+	28	20	FLOWER 7 - OSCILLATING FANS
FLOWER 8 - OSCILLATING FANS	20	29 —	+-	30	20	FLOWER 8 - OSCILLATING FANS
SPARE	20	31		32	20	SPARE
SPARE	20	33 —	+	34	20	SPARE
SPARE	20	35 —	+	36	20	SPARE
SPARE	20	37	+-	38	20	SPARE
SPARE	20	39	+	40	20	SPARE
SPARE	20	41 —	1	42	20	SPARE
	:	G		N —		



ILLINOIS DESIGN FIRM 184.006312



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GRI Holdings, LLC 740 Schneider South Elgin, IL 60177

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DATE 12/10/21

DRAWN CDB

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ELECTRICAL SCHEDULES

P/	ANEL	SCHEDULE - P	ANE	EL C	P2
TAG: PANEL CP2 SURFACE MOUNTED PANELBOARD		A B C)/208 VOLTS 3 PH 4 WIRE D AMPS MAIN BREAKER
CIRCUIT DESCRIPTION	AMP	 	3	AMP	CIRCUIT DESCRIPTION
VEG 1 - TIER 1 FANS	20	1	- 2	20	VEG 1 - TIER 2 FANS
VEG 1 - TIER 3 FANS	. 20	3	- 4	20	VEG 1 - TIER 4 FANS
VEG 2 - TIER 1 FANS	20	5	- 6	20	VEG 2 - TIER 2 FANS
VEG 2 - TIER 3 FANS	20	7	- 8	20	VEG 2 - TIER 4 FANS
VEG 3 - TIER 1 FANS	20	9	- 10	20	VEG 3 - TIER 2 FANS
VEG 3 - TIER 3 FANS	20	11 —	- 12	20	VEG 3 - TIER 4 FANS
VEG 4 - TIER 1 FANS	20	13	- 14	20	VEG 4 - TIER 2 FANS
VEG 4 - TIER 3 FANS	20	15	- 16	20	VEG 4 - TIER 4 FANS
VEG 5 - TIER 1 FANS	20	17	– 18	20	VEG 5 - TIER 2 FANS
VEG 5 - TIER 3 FANS	20	19	- 20	20	VEG 5 - TIER 4 FANS
VEG 1 - GENERAL RECEPTACLES	20	21	- 22	20	VEG 1 - GENERAL RECEPTACLES
VEG 1 - GENERAL RECEPTACLES	20	23	- 24	20	VEG 2 - GENERAL RECEPTACLES
VEG 2 - GENERAL RECEPTACLES	20	25	– 26	20	VEG 2 - GENERAL RECEPTACLES
VEG 3 - GENERAL RECEPTACLES	20	27	- 28	20	VEG 3 - GENERAL RECEPTACLES
VEG 3 - GENERAL RECEPTACLES	20	29 —	- 30	20	VEG 4 - GENERAL RECEPTACLES
VEG 4 - GENERAL RECEPTACLES	20	31	- 32	20	VEG 4 - GENERAL RECEPTACLES
VEG 5 - GENERAL RECEPTACLES	20	33	- 34	20	VEG 5 - GENERAL RECEPTACLES
VEG 5 - GENERAL RECEPTACLES	20	35	– 36	20	OVERHEAD DOOR
SPARE	20	37	- 38	20	OVERHEAD DOOR
SPARE	20	39	- 40	20	SPARE
SPARE	20	41	- 42	20	SPARE
		G -	N 		

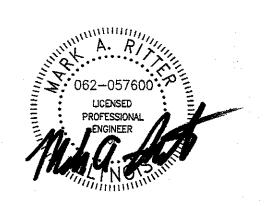
TAG: PANEL GP1 SURFACE MOUNTED PANELBOARD		A E	ļ, Ī,		120/208 VOLTS 3 PH 4 WIRE 400 AMPS MAIN BREAKER		
CIRCUIT DESCRIPTION	AMP)-) 400/3		AMP	CIRCUIT DESCRIPTION	
CONFERENCE RECEPTACLES	20	1		2	20	OFFICE RECEPTACLES	
OFFICE RECEPTACLES	20	3		4	20	BREAKROOM RECEPTACLES	
BREAKROOM RECEPTACLES	20	5		6	20	BREAKROOM COUNTER RCPTS	
BREAKROOM REFRIGERATOR	20	7		8	20	LOCKER ROOMS/STORAGE RCPT	
CORRIDOR RECEPTACLES	20	9		10	20	RESTROOM RECEPTACLES	
SECURITY OFFICE	20	11 —	-	12	20	MECHANICAL/STORAGE RCPTS	
CURE ROOM RECEPTACLES	20	13		14	20	CURE ROOM/VAULT RCPTS	
CURE ROOM RECEPTACLES	20	15 —		16	20	LOADING/SHIPPING ROOM RCPTS	
LOADING/SHIPPING ROOM RCPTS	20	17 —		18	20	NUG POPPING RECEPTACLES	
NUG POPPING RECEPTACLES	20	19 —		20	20	DRY ROOM RECEPTACLES	
WET TRIM AREA RECEPTACLES	20	21		22	20	WET TRIM AREA RECEPTACLES	
SPARE	20	23 —		24	20	WET TRIM AREA/MECH RCPTS	
POTTING AREA RECEPTACLES	20	25 —		26	20	SPARE	
POTTING AREA RECEPTACLES	20	27		28	20	FERTIGATION RECEPTACLES	
FERTIGATION RECEPTACLES	20	29 —		30	20	FERTIGATION RECEPTACLES	
WATER FOUNTAIN	20	31	;	32	20	FLOWER 1 GREEN LIGHTING	
FLOWER 2 GREEN LIGHTING	20	33	:	34	20	FLOWER 3 GREEN LIGHTING	
FLOWER 4 GREEN LIGHTING	20	35 —		36	20	FLOWER 5 GREEN LIGHTING	
FLOWER 6 GREEN LIGHTING	20	37	;	38	20	FLOWER 7 GREEN LIGHTING	
FLOWER 8 GREEN LIGHTING	20	39		10	20	SPARE	
SPARE	20	41 —		12	20	SPARE	

TAG: PANEL CP3 SURFACE MOUNTED PANELBOAR	RD	A 1	3 C		/208 VOLTS 3 PH 4 WIRE AMPS MAIN BREAKER
CIRCUIT DESCRIPTION	AMP)) 400/3	AMP	CIRCUIT DESCRIPTION
FLOWER 1 - GENERAL RCPTS	20	1 —		20	FLOWER 1 - GENERAL RCPTS
FLOWER 1 - GENERAL RCPTS	20	3	4	20	FLOWER 2 - GENERAL RCPTS
FLOWER 2 - GENERAL RCPTS	20	5	6	20	FLOWER 2 - GENERAL RCPTS
FLOWER 3 - GENERAL RCPTS	20	7	8	20	FLOWER 3 - GENERAL RCPTS
FLOWER 3 - GENERAL RCPTS	20	9	10	20	FLOWER 4 - GENERAL RCPTS
FLOWER 4 - GENERAL RCPTS	20	11 —	12	20	FLOWER 4 - GENERAL RCPTS
FLOWER 5 - GENERAL RCPTS	20	13	<u> </u>	20	FLOWER 5 - GENERAL RCPTS
FLOWER 5 - GENERAL RCPTS	20	15	<u> </u>	20	FLOWER 6 - GENERAL RCPTS
FLOWER 6 - GENERAL RCPTS	20	17 —	18	20	FLOWER 6 - GENERAL RCPTS
FLOWER 7 - GENERAL RCPTS	20	19 —		20	FLOWER 7 - GENERAL RCPTS
FLOWER 8 - GENERAL RCPTS	20	21 —		20	FLOWER 7 - GENERAL RCPTS
FLOWER 8 - GENERAL RCPTS	20	23 —	24	20	FLOWER 8 - GENERAL RCPTS
SPARE	20	25 —	26	20	SPARE
SPARE	20	27	28	20	SPARE
SPARE	20	29 —	30	20	SPARE
SPARE	20	31	32	20	SPARE
SPARE	20	33	34	20	SPARE
SPARE	20	35 —	36	20	SPARE
SPARE	20	37	38	20	SPARE
SPARE	20	39 —	40	20	SPARE
SPARE	20	41 —	42	20	SPARE

F	PANEL	SCHEDUI	E - PANE	EL GI	P1A
TAG: PANEL GP1A SURFACE MOUNTED PANELBOAI	RD	A 1	3 C	1)/208 VOLTS 3 PH 4 WIRE) AMPS MAIN LUG ONLY
CIRCUIT DESCRIPTION	AMP			AMP	CIRCUIT DESCRIPTION
CONDENSING UNIT 1	30	3	2	30	CONDENSING UNIT 4
CONDENSING UNIT 2	40	7	6	40	CONDENSING UNIT 3
MSHP-1	20	9 11	10	20	MSHP-2
FURNACE 1	20	13 —	14	20	FURNACE 2
FURNACE 3	20	15	16	20	FURNACE 4
MCC	20	17 —	18	20	FURNACE 5
MSS	20	19	20	20	FURNACE 6
CONDENSING UNIT 5	20	21 —	22	40	CONDENSING UNIT 6
MSHP-3	20	25 —	26	40	CONDENSING UNIT 7A
CONDENSING UNIT 7B	40	2931	30	40	CONDENSING UNIT 8
CONDENSING UNIT 9	40	33 —	34	20	CONDENSING UNIT 10
FURNACE 7A	20	37	38	20	FURNACE 7B
FURNACE 8	20	39 —	40	20	FURNACE 9
FURNACE 10	20	41	42	20	SPARE
		G —	N 		



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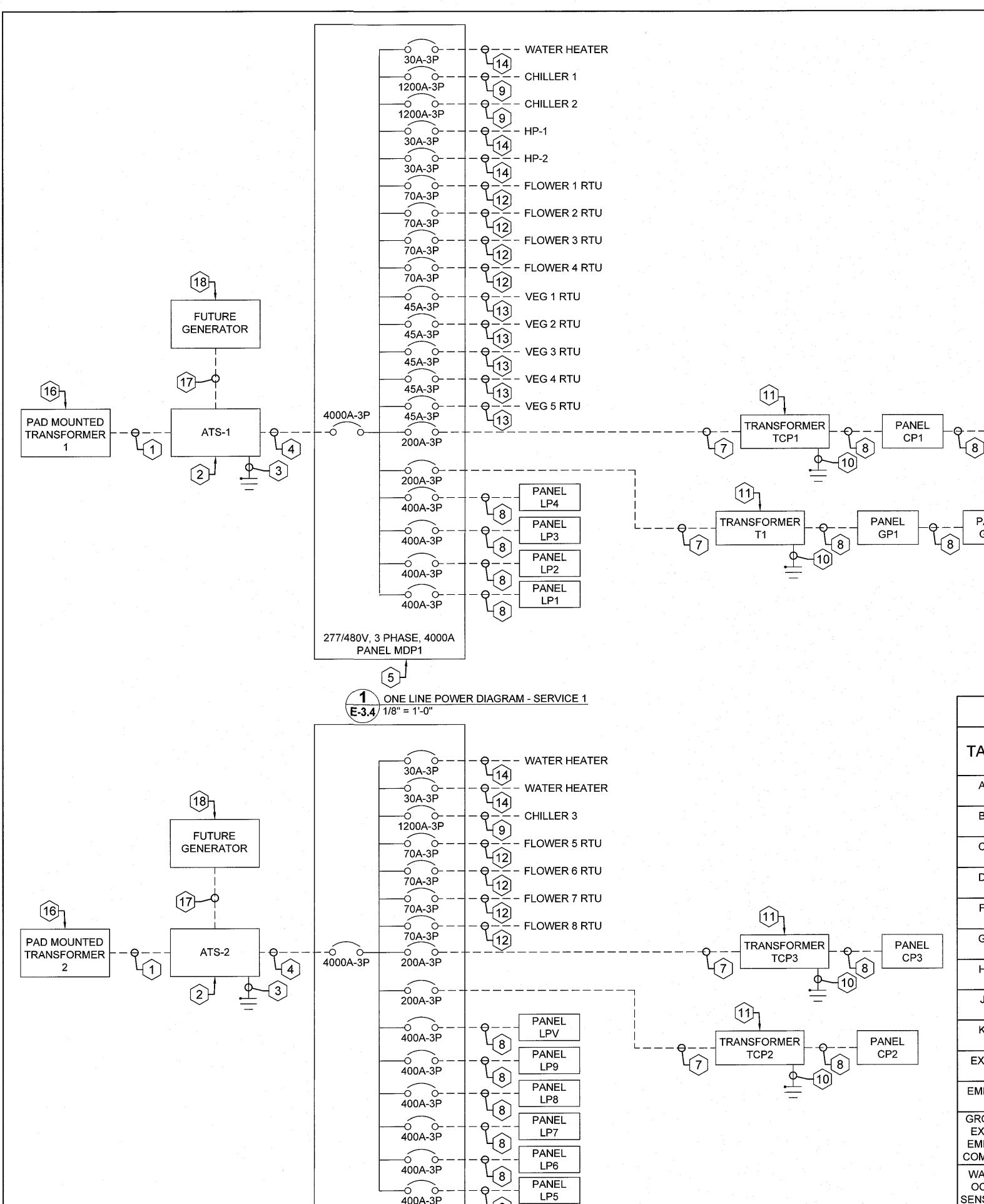
PROJECT NO. R21-049

DATE 12/10/21

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CHECKED KDW

ELECTRICAL SCHEDULES



400A-3P

1 ONE LINE POWER DIAGRAM - SERVICE 2 E-3.4 1/8" = 1'-0"

277/480V, 3 PHASE, 4000A PANEL MDP2

ELECTRICAL KEYED 🗵 NOTES:

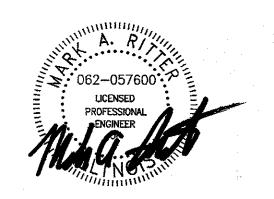
- 1. ROUTE (8) SETS OF 4-600 MCM 4" CONDUITS.
- 2. PROVIDE NEMA 3R SERVICE RATED, 4000A AUTOMATIC TRANSFER SWITCH. AUTOMATIC TRANSFER SWITCH SHALL HAVE A TAP BOX TO ACCEPT CAMLOCKS FOR A TEMPORARY ROLL-OFF GENERATOR. AUTOMATIC TRANSFER SWITCH SHALL BE SET UP IN MANUAL OPERATION.
- 3. GROUND AND BOND AUTOMATIC TRANSFER SWITCH IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- 4. ROUTE (8) SETS OF 4-600 MCM & 3/0 GROUND IN 4" CONDUITS.
- 5. PROVIDE 277/480V, 4000A, THREE PHASE, ELECTRICAL PANEL MDP1.
- 6. ROUTE 4-250 MCM & #4 AWG GND IN A 2 1/2" CONDUIT.
- 7. ROUTE 3-3/0 & #6 AWG GND IN A 2" CONDUIT.
- 8. ROUTE 4-600 MCM & #2 AWG GND IN A 4" CONDUIT.
- 9. ROUTE (3) SETS OF 3-600 MCM & 3/0 GROUND IN 4" CONDUITS.
- 10. 1/0 GROUNDING ELECTRODE CONDUCTOR TO A 5/8" x 10'-0" COPPER GROUND ROD. ROUTE 1/0 BONDING CONDUCTOR TO NEAREST BUILDING
- 11. PROVIDE A 150 KVA DRY-TYPE TRANSFORMER, 480V PRIMARY x 120/208V SECONDARY.
- 12. ROUTE 3-#4 AWG & #8 AWG GND IN A 1 1/4" CONDUIT.
- 13. ROUTE 3-#8 AWG & #10 AWG GND IN A 3/4" CONDUIT.
- 14. ROUTE 4-#10 AWG IN A 3/4" CONDUIT.
- 15. ROUTE 3-#3 AWG & #8 AWG GND IN A 1 1/4" CONDUIT
- 16. 3750 KVA PAD MOUNTED TRANSFORMER.
- 17. STUB (8) 4" PVC CONDUITS 10 FEET OUT FROM AUTOMATIC TRANSFER SWITCH PAD FOR FUTURE EXTENSION TO GENERATOR.
- 18. FUTURE GENERATOR AND WIRING.

		LI LI	IGHT	INC	SC	HED	ULE
T 4 0	B 4 A B 11 1 =		VOLT	LAMPS			DECODIDATION
TAG	MANUF.	CAT. NO.	VOLT	NO.	WATTS	TYPE	DESCRIPTION
А	FLUENCE	SPYDR 2i	277	1	630	LED	630W LED FLOWER ROOM GROW LIGHT BY OWNER.
В	FLUENCE	SPYDR 2x	277	1	345	LED	345W LED VEG AND MOTHER ROOM GROW LIGHT BY OWNER.
С	FLUENCE	RAZRx	277	1	114	LED	114W LED CLONE ROOM GROW LIGHT BY OWNER.
D	DAYBRITE	FBY12L840-UNV-LFA-HCH5-VHOOK	277	1	88	LED	2 FOOT, 12,000 LUMEN LED HIGH BAY LIGHT FIXTURE.
F	GROWLITE	GLE-GL-BB	120	1	48	LED	3 FOOT, 4,700 LUMEN GREEN LED LIGHT FIXTURE.
G	DAYBRITE	FSS440L840-UNV-DIM	277	1	31	LED	4 FOOT, 4000 LUMEN LED STRIP LIGHT FIXTURE.
Н	DAYBRITE	2FGG38L840-2-D-UNV-DIM-FSF22	277	1	33	LED	2x2 RECESSED, 3800 LUMEN LED LIGHT FIXTURE.
J	ALPHABET	NU6-RD-SW-15LM-40K-80-WH70-UNV- 10V-RET-WH-WH	277	1	14	LED	6" DIAMETER, 1200 LUMEN LED LIGHT FIXTURE.
К	STONCO	LPW3290-NWG3-3-UNV-PCB	277	1	89	LED	10,000 LUMEN LED WALL PACK WITH INTEGRAL PHOTOCELL.
EXIT	CHLORIDE	CLXNGW (IN FLOWER & VEG ROOMS) CLXNRW (IN ALL OTHER SPACES)	277			LED	THERMOPLASTIC EXIT SIGN WITH BATTERY BACKUP.
EMER	CHLORIDE	CLU2NW	277			LED	THERMOPLASTIC EXIT SIGN WITH BATTERY BACKUP.
GROW EXIT EMER COMBO	GROWLITE	GLE-S1-WB-BL-EL2-G1	277				WALL MOUNTED GREEN LED EXIT SIGN/EMERGENCY LIGHT COMBINATION.
WALL OCC SENSOR	HUBBELL	LHMTS1-N-WH	277				WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH OVERRIDE SWITCH.
DEILING OCC SENSOR	HUBBELL	OMNIDT2000	277				CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH OVERRIDE SWITCH.
POWER PACK	HUBBELL	UVPPHD	277				UNIVERSAL LIGHTING POWER PACK.



112 NORTH KANSAS ST. EDWARDSVILLE, IL 62025 P: 618-659-8709 F: 618-656-8353

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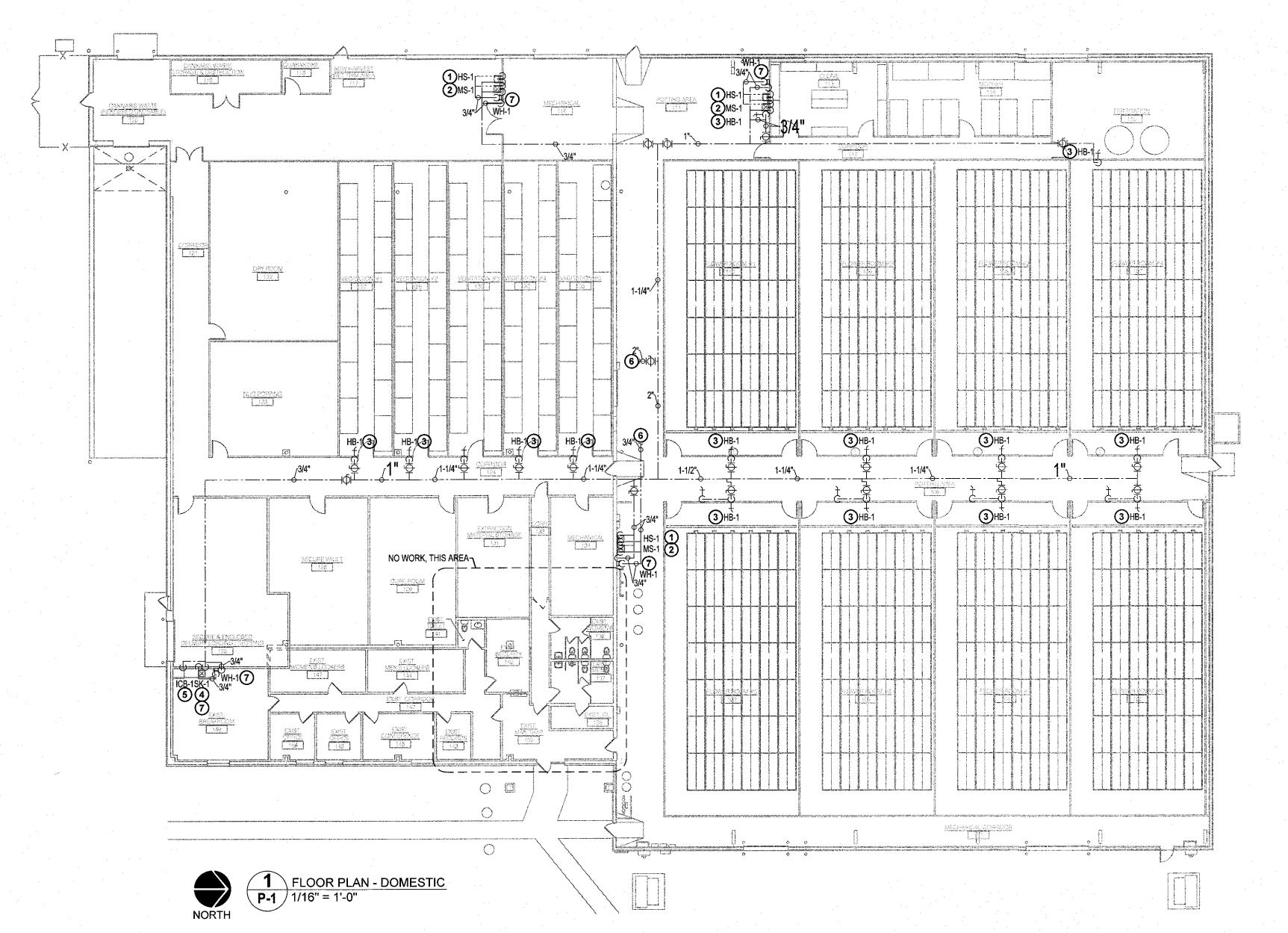
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LICENSE EXPIRES

GRI Holdings, LLC 740 Schneider South Elgin, IL 601

PROJECT NO. R21-049 12/10/21 DRAWN CHECKED

> **ELECTRICAL SCHEDULES**





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LICENSE EXPIRES

PLUMBING KEYED (X) NOTES: (THIS SHEET ONLY)

PROVIDE ISOLATION VALVES AT ALL BRANCH TEES SERVING FIXTURE(S).

A. ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE.

PROVIDE HAND SINK (HS-1) ASSEMBLY WITH 1/2" CWS & HWS PIPING.

GENERAL NOTES: (THIS SHEET ONLY)

B. SEE SHEET P-4 FOR GENERAL NOTES, DETAILS, AND SCHEDULES.

- PROVIDE MOP SINK (MS-1) ASSEMBLY WITH 1/2" CWS & HWS PIPING.
- PROVIDE WALL HOSE BIB (HB-1) WITH 3/4" CWS PIPING. COORDINATE LOCATION.
- PROVIDE SINK (SK-1) ASSEMBLY WITH 1/2" CWS & HWS PIPING.
- PROVIDE ICE MAKER CONNECTION BOX (ICB-1) ASSEMBLY WITH 3/8" CWS PIPING. COORDINATE LOCATION.
- CONNECT TO EXISTING PIPING AT NEAREST AVAILABLE, CODE COMPLIANT LOCATION.
- PROVIDE ELECTRIC INSTANTANEOUS WATER HEATER (WH-1) FOR FIXTURE(S). COORDINATE EXACT LOCATION WITH OWNER.

PLUMBING LEGEND ABOVE CEILING BELOW FLOOR COLD WATER SUPPLY HOT WATER SUPPLY HOT WATER RETURN HYD-X WALL HYDRANT HB-X HOSE BIBB HS-X HAND SINK FD-X FLOORDRAIN FLOORSINK COTF CLEANOUT TO FLOOR URINAL ICB-X ICE MAKER CONNECTION BOX LAV-X LAVATORY WC-X WATER CLOSET MS-X UR-X MOP SINK URINAL WATER HEATER DOMESTIC CIRCULATOR PUMP DCP-X DOMESTIC EXPANSION TANK DET-X SHOWER TRENCH DRAIN EXISTING COLD WATER SUPPLY PIPING COLD WATER SUPPLY PIPING EXISTING HOT WATER SUPPLY PIPING HOT WATER SUPPLY PIPING **EXISTING HOT WATER RETURN PIPING** HOT WATER RETURN PIPING ————— EXISTING BELOW-GRADE SANITARY SEWER PIPING EXISTING VENT PIPING ----- | VENT PIPING

- GAS --- GAS - EXISTING GAS PIPING

PIPE SHALL BE DEMOLISHED

ELBOW DOWN ELBOW UP BALL VALVE BALANCING VALVE CHECK VALVE HOSE BIBB HYDRANT

CIRCULATOR PUMP

NOTE: SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT

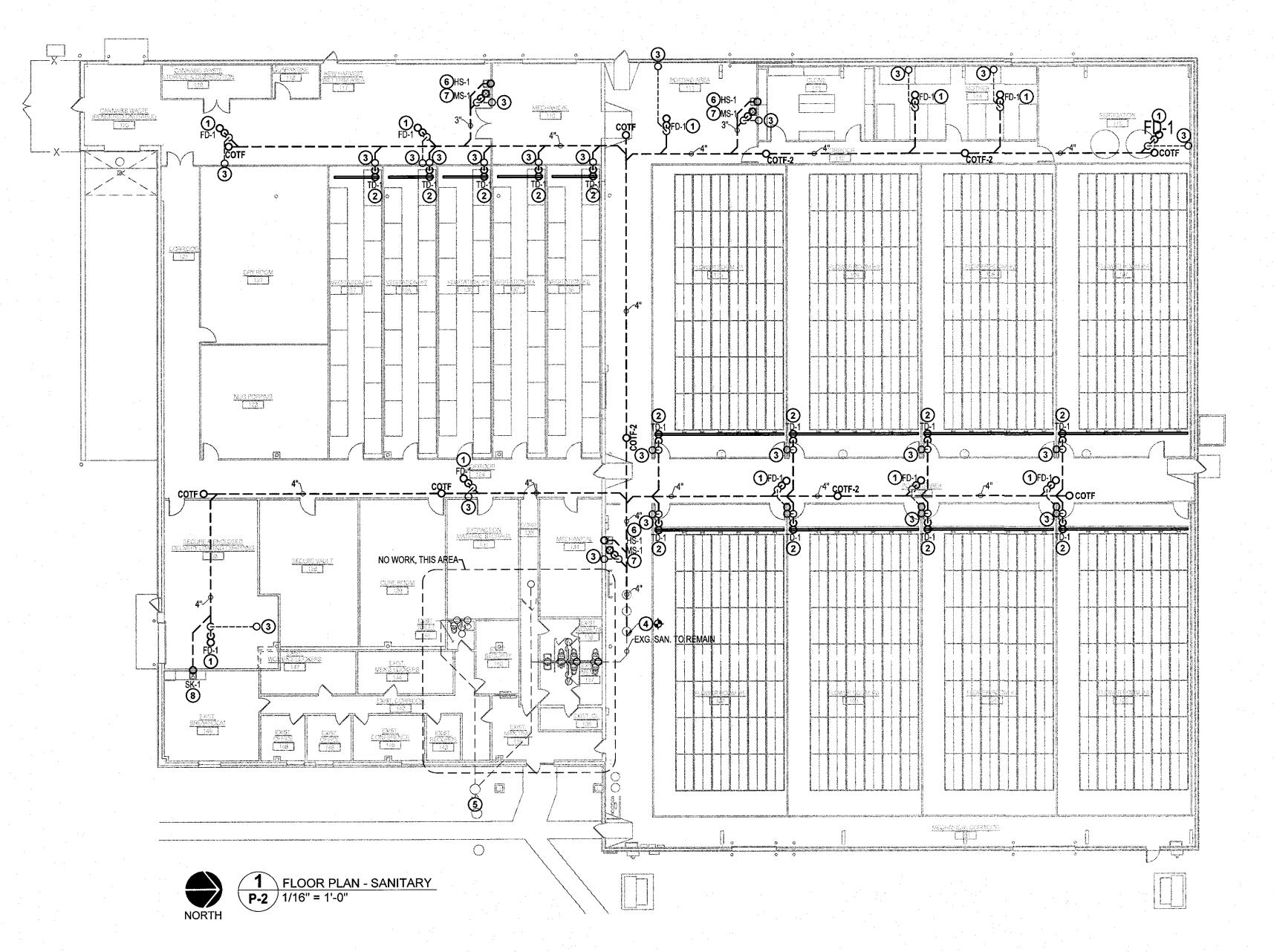
INDICATES CONNECTION TO EXISTING

— GAS — GAS PIPING

GRI Holdings, LLC 740 Schneider South Elgin, IL 60177

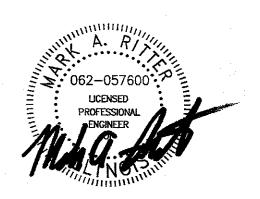
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> FLOOR PLAN -DOMESTIC





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12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

PLUMBING KEYED (X) NOTES: (THIS SHEET ONLY)

SEE SHEET P-4 FOR GENERAL NOTES, DETAILS, AND SCHEDULES.

GENERAL NOTES: (THIS SHEET ONLY)

PROVIDE FLOOR DRAIN (FD-1) WITH 3" SANITARY SEWER PIPING. COORDINATE EXACT LOCATION WITH OWNER.

ALL WORK SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE.

FLUSH WITH ADJACENT CONCRETE FLOOR. SEE "A" SHEETS FOR ADDITIONAL INFORMATION.

SAWCUT AND REMOVE EXISTING CONCRETE FLOOR AS REQUIRED TO INSTALL NEW DRAINS AND RELATED PIPING AS INDICATED. PROVIDE MIN. 4" THICK CONCRETE ON COMPACTED FULL DEPTH GRANULAR FILL,

- 2. PROVIDE TRENCH DRAIN (TD-1) WITH 3" SANITARY SEWER PIPING. PROVIDE QUANTITY OF SECTIONS REQUIRED TO PROVIDE TOTAL LENGTH REQUIRED AT EACH LOCATION. COORDINATE LOCATION/LENGTHS
- 3. VENT PIPING FROM BELOW FLOOR. ROUTE VENT PIPING UP, COMBINE VENT PIPING FROM ADJACENT FIXTURES IN AREA AND THEN ROUTE TO 4" V.T.R. COMBINE FIXTURE VENTS AS MUCH AS PRACTICAL TO
- 4. CONNECT SANITARY SEWER PIPING TO EXISTING SANITARY SEWER PIPING AT APPROXIMATE LOCATION INDICATED. PROVIDE ALL FITTINGS/ADAPTORS AS REQUIRED.
- EXISTING SANITARY SEWER TO SITE, TO REMAIN.
- PROVIDE HAND SINK (HS-1) ASSEMBLY WITH 1-1/2" SANITARY SEWER PIPING.
- PROVIDE MOP SINK (MS-1) ASSEMBLY WITH 3" SANITARY SEWER PIPING.
- 8. PROVIDE SINK (SK-1) ASSEMBLY WITH 2" SANITARY SEWER PIPING.

PROVIDE THE FEWEST ROOF PENETRATIONS AS POSSIBLE.

GRI Holdings, LLC 740 Schneider South Elgin, IL 60177

PROJECT NO. R21-049

DATE 12/10/21

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FLOOR PLAN -SANITARY

P-2



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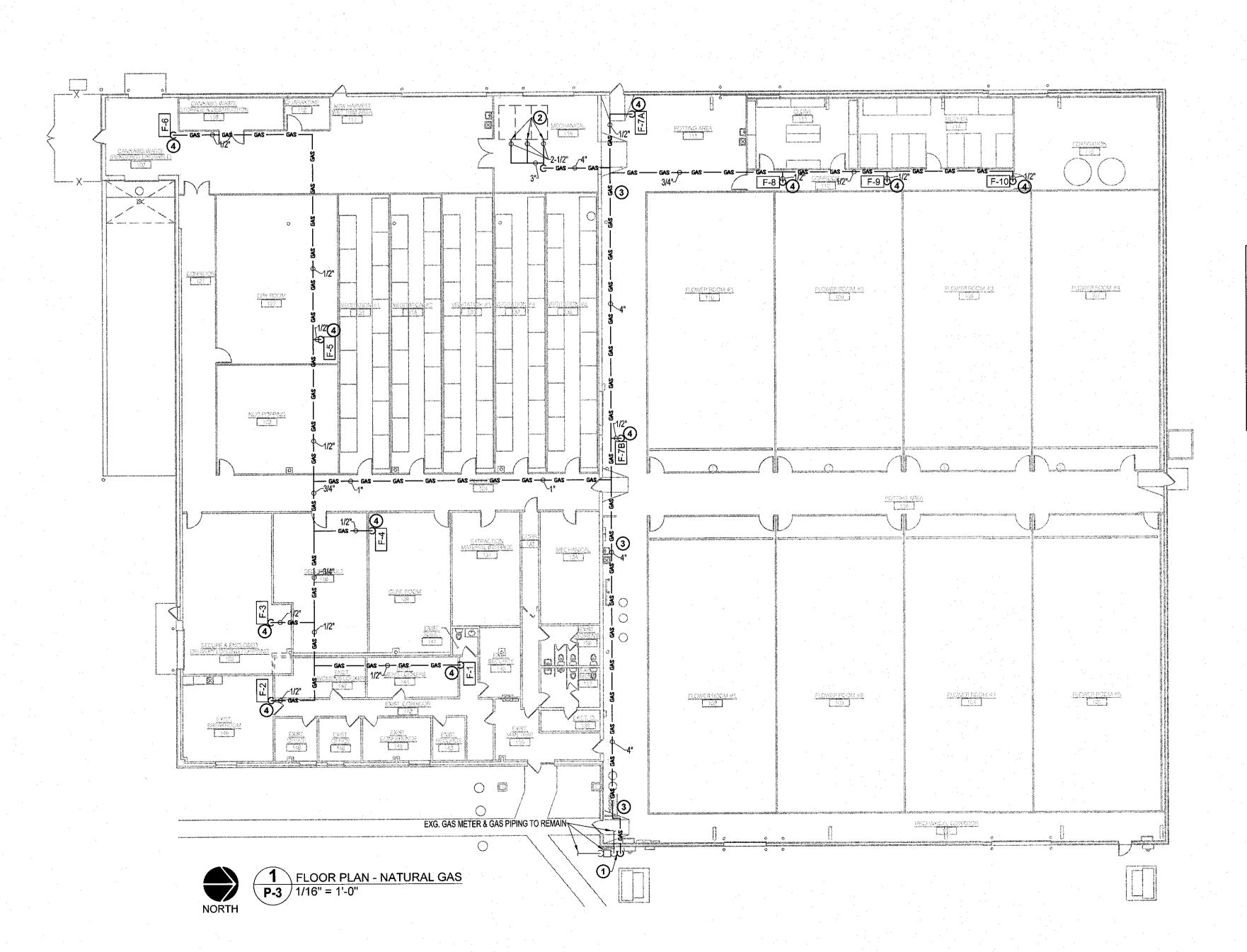
DATE 12/10/21

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CHECKED KDW

GAS PIPING PLAN

P-3



PLUMBING KEYED (X) NOTES: (THIS SHEET ONLY)

- 1. CONNECT 4" GAS PIPING TO OUTLET OF EXISTING (OR NEW, IF UTILITY CO. MUST CHANGE OUT METER FOR LARGER CAPACITY) GAS METER. MODIFY EXISTING GAS PIPING AS REQUIRED. ROUTE 4" GAS PIPING THRU EXTERIOR WALL. PROVIDE WEATHERTIGHT SEAL. ROUTE THRU BUILDING TO NEW BOILERS. NEW WORK GAS ASSUMPTIONS: 19,160MBH, 300LF PIPING, 2PSI.
- 2. CONNECT 2-1/2" GAS TO MECHANICAL EQUIPMENT. PROVIDE ISOLATION VALVE, DIRT-LEG, UNION, AND LBS. TO INCHES REGULATOR AS REQUIRED.
- COORDINATE ROUTE OF GAS PIPING WITH EXISTING BUILDING ELEMENTS AND OWNER. MOUNT/HANG PIPING FROM STRUCTURAL ELEMENTS ONLY. PAINT ALL GAS PIPING YELLOW.
- . CONNECT 1/2" GAS TO MECHANICAL EQUIPMENT. PROVIDE ISOLATION VALVE, DIRT-LEG, UNION, AND LBS. TO INCHES REGULATOR AS REQUIRED.

GENERAL PLUMBING NOTES:

- A. ALL PLUMBING WORK SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND ALL OTHER APPLICABLE LOCAL CODES AND REGULATIONS, AND SHALL BE ENFORCED BY THE PLUMBING CONTRACTOR AT ALL TIMES.
- B. PROVIDE ALL MATERIAL, LABOR, PERMITS AND FEES NECESSARY TO INSTALL A COMPLETE WATER SUPPLY, WASTE AND VENT PIPING AS INDICATED BY THESE DRAWINGS AND SPECIFICATIONS, AND AS REQUIRED TO COMPLY WITH THE INTERNATIONAL PLUMBING CODE.
- C. CONNECT ALL WATER, AND WASTE LINES ETC., FOR ALL FIXTURES. LINE SIZES SHALL BE NO SMALLER THAN THE STUB-OUT PROVIDED FOR THE FIXTURE.
- D. FURNISH AND INSTALL READILY ACCESSIBLE BALL VALVES ON ALL WATER LINES TO INDIVIDUAL FIXTURES OR BANKS OF FIXTURES AS INDICATED. ALL SHUT-OFF VALVES SHALL BE INSTALLED FOR EASY ACCESS.
- FURNISH ALL SHUT-OFF VALVES, PRESSURE REDUCING VALVES, TAIL PIECES, 'P' TRAPS, BACK FLOW PREVENTION DEVICES, AND VACUUM BREAKERS AS REQUIRED BY CODES OR REQUIRED FOR PROPER INSTALLATION.
- F. INSULATE ALL DOMESTIC WATER LINES.
- G. ALL WASTE AND VENT PIPING IS TO BE SCH 40 PVC WITH SOLVENT WELD JOINTS OR WHERE NOTED OTHERWISE.
- H. DOMESTIC SUPPLY PIPING BELOW SLAB IS TO BE SOFT TYPE "K" COPPER (NO JOINTS BELOW SLAB) WITH CONTINUOUS CLOSED CELL INSULATION AND HARD TYPE "L" ABOVE
 - ALL PIPING IS TO BE HUNG OR FASTENED TO STRUCTURE WITH MANUFACTURED HANGERS AND SUPPORTS. PIPE STRAP IS NOT TO BE USED FOR PIPE SUPPORT OR ANCHORAGE.
- FIXTURE STOPS SHALL BE 1/4 TURN TYPE . TRAPS SHALL BE 17GA. CHROME PLATED BRASS. SUPPLIES SHALL BE FLEXIBLE STAINLESS STEEL.

- REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES, AND WALL AND FLOOR FINISHES. CONTRACTOR SHALL COORDINATE ALL WORK REQUIRED WITH ALL OTHER DRAWINGS IN SET.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL WATER, SANITARY, VENT AND GAS PIPING, VALVES AND APPURTENANCES WITH RELATED STRUCTURAL, HVAC AND ELECTRICAL EQUIPMENT.
- M. FOR CLARITY ON PLANS, NOT ALL VENT PIPING IS SHOWN. CONTRACTOR SHALL GROUP
- PIPING SHALL BE CONCEALED IN CHASE WALLS, CEILING, BELOW SLAB, ETC., UNLESS INDICATED OTHERWISE. PIPING SHOW OUTSIDE OF WALLS IS FOR CLARITY ONLY.
- CONTRACTOR TO COORDINATE ALL PATCHING AND REPAIRING OF WALLS, FLOORS, CEILINGS, ETC., WITH OTHER TRADES AND GENERAL WORK.

VENT PIPING AND ROUTE TO VENTS AS REQUIRED.

- P. WHERE NOT OTHERWISE INDICATED, CONTRACTOR SHALL PROVIDE CLEANOUTS NOT MORE THAN 50 FEET APART, INCLUDING THE DEVELOPED LENGTH OF THE CLEANOUT PIPE IN SANITARY SEWER PIPING 4" AND SMALLER. WHERE NOT INDICATED, CLEANOUTS SHALL BE PLACED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE, CURRENT EDITION.
- CONTRACTOR SHALL PROVIDE PIPE SLEEVES FOR ALL PLUMBING PIPING THAT PENETRATES FOUNDATIONS AND FLOORS. PENETRATION SHALL BE CODE COMPLIANT, ALLOW PIPE MOVEMENT AND SHALL BE WATERPROOF.
- THE LAYOUTS SHOWN ON THESE SHEETS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND AS OTHER WORK WILL PERMIT. CHANGES FROM THESE DRAWINGS REQUIRED TO MAKE THIS WORK CONFORM TO THE BUILDING CONSTRUCTION OR OTHER WORK OF OTHER TRADES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER, BUT ONLY WITH THE PRIOR APPROVAL OF THE A/E. ALL MAJOR CHANGES SHALL BE SHOWN ON SHOW DRAWINGS AND NOTED AS SUCH TO BE SUBMITTED BEFORE THE CHANGES ARE MADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AIR SEALING ALL PLUMBING PENETRATIONS IN THE AIR BARRIER.

	PLUMBING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER AND MODEL NO.	FAUCET/FLUSH VALVE/TRIM	ADDITIONAL REMARKS					
HS-1	WALL HUNG, 16"x14"x8" HEAVY GA. 304 STAINLESS STEEL WITH FAUCET	ADVANCED TABCO: 7-PS-49	(WITH SINK) GOOSENECK, LEVER HANDLES						
SK-1	ACCESSIBLE, SINGLE BOWL, 18GA. STAINLESS STEEL, TOP MOUNT, 19.5"x22"x6-1/2", HOLE PUNCHING SHALL MATCH FAUCET REQUIREMENTS	ELKAY: LRAD202265	KOHLER: K-15275-4	ADA, GOOSENECK, CENTERSET FAUCET, WITH QUARTER-TURN STOPS, BRAIDED S.S. SUPPLIES, 17GA. C.P. P-TRAP, OFFSET WASTE, ADA PIPE COVERS					
MS-1	24"x24"x10" COMPOSITE MOP SINK BASIN WITH MANUAL WALL MOUNTED FAUCET WITH VACUUM BREAKER, PAIL HOOK, WALL BRACE, LEVER OR CROSS HANDLES	ZURN: Z1996-24	CHICAGO: 897-CCP	PROVIDE WITH HOSE & HOSE HOLDER, MOP HANGAR, STAINLESS STEEL BUMPER AND WALL GUARDS					
HB-1	SELF-DRAINING, CHROME FINISH HYDRANT, VACUUM BREAKER, WHEEL HANDLE	WOODFORD: 24		COORDINATE LOCATION WITH A/E AND OWNER					
ICB-1	RECESSED ICE MAKER CONNECTION BOX, BALL VALVE, WATER HAMMER ARRESTOR	GUY GRAY: AB9700		COORDINATE LOCATION WITH A/E AND OWNER					
WHA-1	WATER HAMMER ARRESTOR, BELLOW TYPE	SIOUX CHIEF: 650 SERIES							

	FLOOR DRAINS, ROOF	DRAINS, & CLEANOUT SO	CHEDULE
TAG	DESCRIPTION	MANUFACTURER AND MODEL NO.	ADDITIONAL REMARKS
FD-1	FLOOR DRAIN, ROUND DUCTILE IRON 6.5" STRAINER	SIOUX CHIEF: 832-3DiR-832-UM	6.5" DIA. HEAVY DUTY STRAINER, S.S. DEBRIS BASKET
TD-1	LIGHT DUTY, MODULAR, PRE-SLOPED TRENCH DRAINS, 1/4" DIA. PERFORATED S.S. GRATE, 4" SINGLE-POINT OUTLET	JAY R SMITH: 9930 SERIES	S.S. PEFORATED GRATE SUITABLE FOR 1,162PSI, NOMINAL TOTAL LENGTH AS INDICATED ON PLAN. PROVIDE WITH DEEP-SEAL TRAP. COORDINATE EXACT LENGTH & LOCATION WITH OWNER
COTG	CLEANOUT TO GRADE, ADJUSTABLE ROUND COATED C.I., NICKEL COVER	SIOUX CHIEF: 851-64NS	NICKEL BRONZE, SECURED TOP
COTF	FLOOR CLEANOUT, ADJUSTABLE ROUND COATED C.I., NICKEL COVER	SIOUX CHIEF: 851-64NS	NICKEL BRONZE, SECURED TOP
COTW	PVC PLUG WITH ROUND STAINLESS STEEL COVER, CHROME BOLT	SIOUX CHIEF: 870-96S	20GA. COVER, STAMPED WITH "CO"

	ELECTRIC	INSTANTANEOU	JS WATER	HEATER SCHE	DULE	
TAG	DESIGN BASE (MAKE & MODEL)	MINIMUM TURN ON (G.P.M)	MAXIMUM FLOW RATE (G.P.M.)	TEMPERATURE RISE AT 2 G.P.M. (DEGREES F.)	KILOWATTS	ELECTRICAL
WH-1	EEMX: XTP024480	0.5	20.5	82	24	480V/3PH

NOTES:

1. COORDINATE EXACT LOCATION WITH A/E AND OWNER.

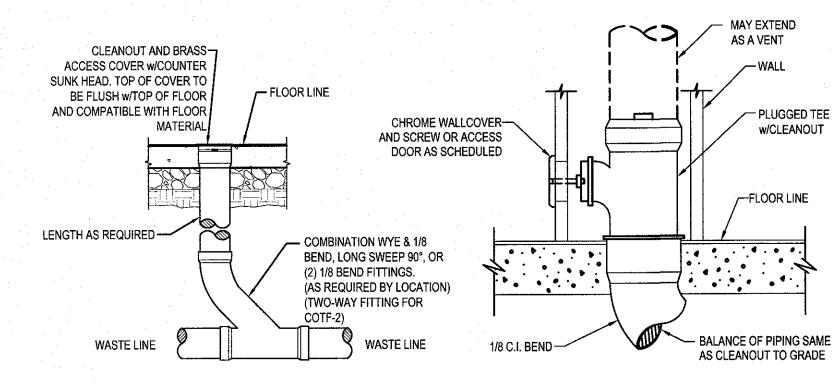
2. HIGH TEMPERATURE LIMIT SWITCH.

	THOU TELL ELOCIONE ELOCIONE
3.	ADJUSTABLE TEMPERATURE SETTINGS: 60 - 180 DEGREES F.
4.	OUTLET TEMPERATURE SHALL BE SET AT 130 DEGREES F. (TMV-

	THERMOSTATIO	MIXING VALVE SCH	IEDULE	
TAG	DESIGN BASE (MAKE & MODEL)	SERVICE	MINIMUM FLOW RATE (G.P.M.)	FLOW RATE AT 10 P.S.I. PRESSURE DROP (G.P.M.)
TMV-1	WATTS: LFUSG-B-M2	HAND SINKS	0.5	2-5
TES:				

COORDINATE EXACT LOCATION WITH A/E AND OWNER.
 OUTLET TEMPERATURE SHALL BE SET AT 110 DEGREES F. (TMV-1).

TAG	WASTE	TRAP	VENT	COLD	HOT
HS-1	1-1/2"	1-1/4"	1-1/4"	3/8"	3/8"
SK-1	2"	1-1/2"	1-1/4"	1/2"	1/2"
MS-1	3"	3"	1-1/2"	1/2"	1/2"
HB-1				3/4"	
ICB-1				3/8"	
FD-1	2"	2"	1-1/2"		
TD-1	3"	3"	1-1/2"		



CLEANOUT TO FLOOR (COTF/COTF-2)

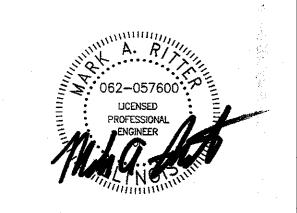
CLEANOUT TO WALL (COTW)



ENGINEERS, LLC

112 NORTH KANSAS ST. EDWARDSVILLE, IL 62025 P: 618-659-8709 F: 618-656-8353

ILLINOIS DESIGN FIRM 184.006312



SIGNATURE

12/10/2021

DATE

11/30/2023

LICENSE EXPIRES

GRI Holdings, LLC 740 Schneider South Elgin, IL 6017

PROJECT NO. R21-049 12/10/21 DRAWN CDB KDW CHECKED

GENERAL NOTES, DETAILS, AND SCHEDULES