

## GENERAL NOTES:

- SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THIS DRAWING ARE TYPICAL. DRAWINGS MAY NOT INDICATE ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.
- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS.
- PROVIDE SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES, DEVICES, AND MATERIALS OBVIOUSLY NECESSARY FOR A SOUND, SECURE, AND COMPLETE INSTALLATION.
- ABIDE AND ENFORCE ALL SAFETY RULES AND REGULATIONS SET FORTH BY THE OWNER. ALL WORKERS AND SUPERVISORS MUST ATTAIN SAFETY TRAINING CLASSES (IF APPLICABLE). BE RESPONSIBLE TO FOLLOW ALL VERBAL INSTRUCTIONS GIVEN BY OWNERS REPRESENTATIVES.
- THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED HIMSELF WITH THE PREPARATION OF CONTRACT BID PROPOSALS ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL. THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES, AND THE REASONS THEREFOR, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
- VISIT THE SITE AND ADJOINING AREAS AND EXAMINE THE EXISTING CONDITIONS TO BECOME FAMILIAR WITH THEM AND TO DETERMINE THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT. THIS CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF JUNCTION APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS TO THE BEST AVAILABLE STANDARDS AT THE SCALE INDICATED.
- LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH ENGINEER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
- SCHEDULE WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SYSTEMS SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES TO PERMIT THE OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH THE OWNER AND ALL OTHER CONTRACTORS.
- SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- BE RESPONSIBLE FOR WORKMENS IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
- BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHMENTS.
- WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETED WITH A FIRE STOP MATERIAL THAT IS LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.
- BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO HIS WORK. SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.
- ALL EXTERIOR WALL OPENINGS SHALL BE SLEAVED, PROPERLY CALKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
- RESTORE EXISTING SYSTEMS, DEVICES, FINISHED, ETC. DAMAGED OR ALTERED BY WORK TO ACCEPTABLE CONDITIONS AS DETERMINED BY THE OWNER, ARCHITECT, AND/OR ENGINEER. EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED BUT ARE TO REMAIN IN USE SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO PROPER OPERATION.
- SUBMIT A SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. CONTRACTOR SHALL SUBMIT ALL PIPING AND DUCTWORK FIELD INSTALLATION DRAWINGS FOR EACH SYSTEM TO BE INSTALLED. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF ENGINEER APPROVED SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTORS EXPENSE.
- SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR, CHECK AND VERIFY ALL FIELD MEASUREMENTS.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE ENGINEER WITH ONE (1) COMPLETE SET OF AS-BUILT DRAWINGS IN ELECTRONIC AUTOCAD SOFTWARE FORMAT AT CONTRACTORS EXPENSE AND THREE (3) COMPLETE BOUND COPIES OF OPERATION AND MAINTENANCE MANUALS. THESE SHALL BE PROVIDED TO THE OWNER AT CONTRACTORS EXPENSE. CONTRACTOR SHALL INSTRUCT THE OWNERS PERSONNEL WITH REGARD TO THE PROPER OPERATION OF ALL SYSTEMS TO THE SATISFACTION OF THE OWNER.
- NOTIFY ENGINEER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE ENGINEER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
- LESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED, ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION. ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIATED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
- PREPARE FULLY DIMENSIONED FIELD SHEET METAL AND PIPING INSTALLATION DRAWINGS (MIN. 1/4"=1'-0" SCALE). THESE DRAWINGS SHALL BE FORWARDED TO ALL CONTRACTORS. EACH CONTRACTOR SHALL SUBSEQUENTLY IN PERMISSION DELINEATE HIS RESPECTIVE WORK ON THESE COORDINATION DRAWINGS, WHEN ALL WORK HAS BEEN PROPERLY SHOWN ON THE COORDINATION DRAWINGS, AND ALL CONTRACTORS AGREE THAT THEIR RESPECTIVE WORK CAN BE INSTALLED AND WILL PROPERLY FIT TOGETHER, THEY SHALL SO ACKNOWLEDGE BY ENDORSING THE DRAWINGS). ANY WORK DONE PRIOR TO COMPLETION OF ABOVE COORDINATION PROCESS FOUND IN CONFLICT SHALL BE REMOVED AND REPLACED AT THE RESPECTIVE CONTRACTORS EXPENSE.
- INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE ENGINEER, ARCHITECT, OR THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT HIS EXPENSE.
- UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN ENGINEER FINAL PUNCH LIST, SUBMIT TO THE ENGINEER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILT MANUALS, ETC. HAVE BEEN SUBMITTED.
- BE RESPONSIBLE FOR ALL SLAB AND WALL OPENINGS, BEAM PENETRATIONS AND CORING DRILLING AS IT RELATES TO HIS WORK. PLUMBING CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ALL SLAB AND WALL OPENINGS AND BEAM PENETRATIONS, AND COR DRILLING TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
- EFFECTIVELY PROTECT ALL MATERIAL AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE, CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO OWNER.
- REFERENCED MANUFACTURERS DENOTES A MINIMUM ACCEPTABLE LEVEL OF QUALITY AND IS NOT INTENDED TO PREVENT SUBMISSION OF EQUIVALENT EQUIPMENT.
- ALL WORK BEING INSTALLED IN AIR PLENUM SPACES MUST BE INSTALLED WITH PLENUM RATED MATERIAL. ANY EXISTING NON-PLENUM RATED PLUMBING PIPE LOCATED WITHIN THESE PLENUM RATED AREAS SHALL BE WRAPPED WITH A PLENUM RATED PIPE WRAPPING MATERIAL.

## GENERAL ELECTRICAL NOTES:

- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK. IF THE CONTRACTOR OBSERVES ANY DISCREPANCIES TO THE DRAWINGS PRIOR TO THEIR BID THEY SHALL IDENTIFY SAME TO THE OWNER AND ENGINEER IN WRITTEN FORM WITH THEIR BID PROPOSAL UNLESS IDENTIFIED PRIOR TO SUBMITTING THEIR BID.
  - ELECTRICAL EQUIPMENT AND DEVICES INCLUDING ELECTRICAL CHARACTERISTICS SHOWN ON THE ELECTRICAL PLANS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES. BID SHALL INCLUDE ELECTRICAL ITEMS SHOWN BUT NOT PROVIDED BY OTHER TRADES, WHERE ELECTRICAL CHARACTERISTICS SHOWN BY OTHER TRADES DEVIATES FROM THOSE SHOWN ON THE ELECTRICAL PLANS, CONTRACTOR IS RESPONSIBLE FOR REQUESTING CLARIFICATION BY ENGINEER PRIOR TO SUBMITTING A BID.
  - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NFPA 70 (NEC) AND OTHER ADOPTED CODES AND STANDARDS BY THE LOCAL JURISDICTION.
  - GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250.
  - UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL".
  - ALTHOUGH WORK IS NOT SPECIFICALLY SHOWN OR SPECIFIED, PROVIDE SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES, DEVICES, AND MATERIALS OBVIOUSLY NECESSARY FOR A SOUND, SECURE, AND COMPLETE INSTALLATION.
  - DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL BENDS, OFFSETS, DROPS AND RISES OF RUNS. ALLOW IN PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COORDINATE WITH OTHER TRADES, AS REQUIRED, MAINTAIN WORKROOM AND KEEP OPENINGS AND PASSAGES CLEAR. THE EXACT LOCATION OF DEVICES AND EQUIPMENT ARE SUBJECT TO THE APPROVAL OF THE OWNER, WHO RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGES AT NO EXTRA COST.
  - UPON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE FREE FROM GROUNDS, SHORT CIRCUITS, OPEN CIRCUITS, OVERLOADS AND IMPROPER VOLTAGES.
  - SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK), WALLS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT ALL HORIZONTAL RACEWAYS WITH METRIC RACERAYS OR METRIC RACEWAY SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS, MC AND AC CABLES SHALL BE SECURED EVERY 6' AND WITHIN 12" FROM THE JUNCTION BOX, SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
  - PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREAS FOR ALARM AND EMERGENCY SYSTEMS. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
  - ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
  - PATCH AND PAINTING OF EXISTING WALLS TO REMAIN WHICH ARE AFFECTED BY ELECTRICAL DEMOLITION, ARE TO BE COMPLETED UNDER GENERAL CONSTRUCTION SPECIFICATION.
  - SURVEY AND RECORD THE CONDITION OF EXISTING FACILITIES TO REMAIN IN PLACE THAT MAY BE AFFECTED BY DEMOLITION OPERATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING SOURCES OF POWER TO EQUIPMENT PRIOR TO FINAL REMOVAL.
  - EXISTING WORK THAT IS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF. ALL WORK TO BE DISPOSED OF SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE.
  - IF WORK REQUIRES THE INTERRUPTION FIRE ALARM AND FIRE PROTECTION SYSTEMS, ARRANGE WITH OWNER TO CONDUCT A FIRE WATCH WHILE THESE SYSTEMS ARE OUT OF SERVICE. CONSULT WITH FIRE MARSHAL PRIOR TO FIRE WATCH.
- | SHEET NUMBER | DRAWING TITLE   |
|--------------|---|
| E001-R-2     | ELECTRICAL INDEX SHEET                                |
| E100-R-2     | ELECTRICAL DEMOLITION - LOWER LEVEL BASE SCOPE        |
| E100B-R-2    | ELECTRICAL DEMOLITION - LOWER LEVEL DUCT/ALT.         |
| E101-R-2     | ELECTRICAL DEMOLITION - FIRST FLOOR                   |
| E102-R-2     | ELECTRICAL DEMOLITION - SECOND FLOOR                  |
| E200-R-2     | ELECTRICAL PROPOSED POWER - LOWER LEVEL BASE SCOPE    |
| E200B-R-2    | ELECTRICAL PROPOSED POWER - LOWER LEVEL DUCT/ALT.     |
| E201-R-2     | ELECTRICAL PROPOSED POWER - FIRST FLOOR               |
| E201-R-2     | ELECTRICAL PROPOSED POWER - SECOND FLOOR              |
| E202-R-2     | ELECTRICAL PROPOSED POWER - ATTIC/ROOF                |
| E202A-R-2    | ELECTRICAL PROPOSED POWER - SITE PLAN                 |
| E300-R-2     | ELECTRICAL PROPOSED LIGHTING - LOWER LEVEL BASE SCOPE |
| E300B-R-2    | ELECTRICAL PROPOSED LIGHTING - LOWER LEVEL DUCT/ALT.  |
| E301-R-2     | ELECTRICAL PROPOSED LIGHTING - FIRST FLOOR            |
| E302-R-2     | ELECTRICAL PROPOSED LIGHTING - SECOND FLOOR           |
| E303-R-2     | ELECTRICAL PROPOSED LIGHTING - ATTIC                  |
| E400-R-2     | ELECTRICAL SINGLE-LINE DIAGRAM - EXISTING             |
| E401-R-2     | ELECTRICAL SINGLE-LINE DIAGRAM - PROPOSED             |
| E500-R-2     | ELECTRICAL SCHEDULES                                  |
| E501-R-2     | ELECTRICAL SCHEDULES                                  |
| E502-R-2     | ELECTRICAL SCHEDULES                                  |
| E503-R-2     | ELECTRICAL SCHEDULES                                  |
| E600-R-2     | ELECTRICAL DETAILS                                    |
- General Compliance - PA**  
DESIGN AND PERFORMANCE OF COMPONENTS AND METHODS SPECIFIED HEREIN SHALL COMPLY WITH THE LATEST ADOPTED VERSIONS OF THE STATE OF PENNSYLVANIA CODES, AND STANDARDS LISTED BELOW BUT NOT LIMITED TO:
- |              |  |
|--------------|--|
| IBC          | INTERNATIONAL BUILDING CODE                      |
| IECC         | INTERNATIONAL ENERGY CONSERVATION CODE           |
| NEC, NFPA 70 | NATIONAL ELECTRICAL CODE                         |
| NFPA 72      | NATIONAL FIRE ALARM AND SIGNALING CODE           |
| NFPA 101     | LIFE SAFETY CODE                                 |
| NFPA 70E     | STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE  |
| NFPA 110     | STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS |
| NFPA 780     | STANDARD FOR LIGHTING PROTECTION SYSTEMS         |
- WHERE CONDUIT RUNS CROSS STRUCTURAL EXPANSION JOINTS, LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED TO TRANSITION CONDUIT SYSTEM FROM ONE STRUCTURAL SECTION TO THE OTHER.
  - VERIFY THAT ANY ELECTRICAL DEVICE OR PRODUCT WHICH IS TO BE RELOCATED OR REUSED IS IN PROPER WORKING CONDITION AND IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN ITS LISTING OR LABELING. ANY DEVICE OR PRODUCT FOUND TO BE DEFECTIVE OR DAMAGED SHALL BE REPLACED WITH NEW.
  - LABEL WITH PERMANENT MARKER ALL JUNCTION BOXES AND RECEPTACLE OUTLET BOXES WITH CIRCUIT NUMBER AND PANEL IDENTIFICATION. ALL FINISHED AREA OUTLET PANS SHALL BE LABELED WITH LABEL TAPE.
  - WIRE COLOR CODING, AS PER CODE, WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ALL ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT. THE METHOD OF COLOR CODE IDENTIFICATION SHALL BE DOCUMENTED IN A MANNER THAT IS READILY AVAILABLE OR PERMANENTLY POSTED AT EACH BRANCH CIRCUIT PANELBOARD.
  - 480/277V - WYE SYSTEM:  
PHASES A = BROWN  
B = ORANGE  
C = YELLOW  
NEUTRAL = GRAY  
GROUNDING = GREEN WITH YELLOW STRIPES
  - 208/120V - WYE SYSTEM:  
PHASES A = BLACK  
B = RED  
C = BLUE  
NEUTRAL = WHITE  
GROUNDING = GREEN
  - 240/120V - DELTA SYSTEM WITH HIGH LEG:  
PHASES A = BLACK  
B (HIGH LEG) = ORANGE  
C = RED  
NEUTRAL = WHITE  
GROUNDING = GREEN
  - 240/120 SINGLE PHASE:  
PHASES A = BLACK  
B = RED  
NEUTRAL = WHITE  
GROUNDING = GREEN
  - DC SYSTEM:  
POSITIVE = RED  
MID WIRE = WHITE  
NEGATIVE = BLACK
  - REPORT INCONSISTENCIES TO THE ENGINEER IN FORM OF "RFI" REQUEST FOR INFORMATION BEFORE ANY INACCURATE WORK IS EXECUTED.
  - PROVIDE PROTECTIVE COVERINGS/WIRE GUARDS FOR ALL DEVICES AND EQUIPMENT IN GYMNASIUM.
  - OBTAIN ALL TESTS AND APPROVAL CERTIFICATIONS AS REQUIRED.
  - REMOVE ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING AND CONDUITS BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD, WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING TO REMAIN. INSTALL JUNCTION BOXES AND EXTEND FEEDER WITH MATCHING CABLE TYPE, CONDUIT AMPACITY AND CONDUIT SIZES.
  - WHERE IT IS IMPRACTICAL TO REMOVE RACEWAY BACK TO SOURCE, DISCONNECT WIRING AT LOAD (EQUIPMENT) AND AT LINE SIDE, CUT AND CAP, FLUSH TO SURFACE. REMOVE CONDUCTORS FROM EXISTING RACEWAYS TO BE REWIRED. CLEAN RACEWAY AS REQUIRED PRIOR TO REWIRING.
  - EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.

## GENERAL DEMOLITION NOTES:

- INCLUDE IN BID ALL COSTS ASSOCIATED WITH REMOVAL AND RELOCATION OF WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES, WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
- REMOVE AND/OR RELOCATE ALL EXISTING WORK WHICH INTERFERES WITH THE NEW STRUCTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ARCHITECT'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
- ALL EXISTING SYSTEMS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
- NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. FOLLOW CLOSELY THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE RELOCATED IN A LEGAL MANNER BY THE CONTRACTOR, AS DIRECTED BY THE OWNER. ITEMS OF SALVAGE SHALL BE CAREFULLY REMOVED AND STORED AT LOCATIONS DIRECTED BY THE OWNER.
- INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES. AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- PATCH AND PAINTING OF EXISTING WALLS TO REMAIN WHICH ARE AFFECTED BY ELECTRICAL DEMOLITION, ARE TO BE COMPLETED UNDER GENERAL CONSTRUCTION SPECIFICATION.
- SURVEY AND RECORD THE CONDITION OF EXISTING FACILITIES TO REMAIN IN PLACE THAT MAY BE AFFECTED BY DEMOLITION OPERATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING SOURCES OF POWER TO EQUIPMENT PRIOR TO FINAL REMOVAL.
- EXISTING WORK THAT IS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF. ALL WORK TO BE DISPOSED OF SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE.
- IF WORK REQUIRES THE INTERRUPTION FIRE ALARM AND FIRE PROTECTION SYSTEMS, ARRANGE WITH OWNER TO CONDUCT A FIRE WATCH WHILE THESE SYSTEMS ARE OUT OF SERVICE. CONSULT WITH FIRE MARSHAL PRIOR TO FIRE WATCH.

## ELECTRICAL DRAWING LIST-R

SHEET NUMBER	DRAWING TITLE
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E302-R-2	ELECTRICAL PROPOSED LIGHTING - SECOND FLOOR
E303-R-2	ELECTRICAL PROPOSED LIGHTING - ATTIC
E400-R-2	ELECTRICAL SINGLE-LINE DIAGRAM - EXISTING
E401-R-2	ELECTRICAL SINGLE-LINE DIAGRAM - PROPOSED
E500-R-2	ELECTRICAL SCHEDULES
E501-R-2	ELECTRICAL SCHEDULES
E502-R-2	ELECTRICAL SCHEDULES
E503-R-2	ELECTRICAL SCHEDULES
E600-R-2	ELECTRICAL DETAILS

### General Compliance - PA

DESIGN AND PERFORMANCE OF COMPONENTS AND METHODS SPECIFIED HEREIN SHALL COMPLY WITH THE LATEST ADOPTED VERSIONS OF THE STATE OF PENNSYLVANIA CODES, AND STANDARDS LISTED BELOW BUT NOT LIMITED TO:

IBC	INTERNATIONAL BUILDING CODE
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
NEC, NFPA 70	NATIONAL ELECTRICAL CODE
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE
NFPA 101	LIFE SAFETY CODE
NFPA 70E	STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE
NFPA 110	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS
NFPA 780	STANDARD FOR LIGHTING PROTECTION SYSTEMS

- WHERE CONDUIT RUNS CROSS STRUCTURAL EXPANSION JOINTS, LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED TO TRANSITION CONDUIT SYSTEM FROM ONE STRUCTURAL SECTION TO THE OTHER.
- VERIFY THAT ANY ELECTRICAL DEVICE OR PRODUCT WHICH IS TO BE RELOCATED OR REUSED IS IN PROPER WORKING CONDITION AND IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN ITS LISTING OR LABELING. ANY DEVICE OR PRODUCT FOUND TO BE DEFECTIVE OR DAMAGED SHALL BE REPLACED WITH NEW.
- LABEL WITH PERMANENT MARKER ALL JUNCTION BOXES AND RECEPTACLE OUTLET BOXES WITH CIRCUIT NUMBER AND PANEL IDENTIFICATION. ALL FINISHED AREA OUTLET PANS SHALL BE LABELED WITH LABEL TAPE.
- WIRE COLOR CODING, AS PER CODE, WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ALL ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT. THE METHOD OF COLOR CODE IDENTIFICATION SHALL BE DOCUMENTED IN A MANNER THAT IS READILY AVAILABLE OR PERMANENTLY POSTED AT EACH BRANCH CIRCUIT PANELBOARD.

- 480/277V - WYE SYSTEM:  
PHASES A = BROWN  
B = ORANGE  
C = YELLOW  
NEUTRAL = GRAY  
GROUNDING = GREEN WITH YELLOW STRIPES
- 208/120V - WYE SYSTEM:  
PHASES A = BLACK  
B = RED  
C = BLUE  
NEUTRAL = WHITE  
GROUNDING = GREEN
- 240/120V - DELTA SYSTEM WITH HIGH LEG:  
PHASES A = BLACK  
B (HIGH LEG) = ORANGE  
C = RED  
NEUTRAL = WHITE  
GROUNDING = GREEN
- 240/120 SINGLE PHASE:  
PHASES A = BLACK  
B = RED  
NEUTRAL = WHITE  
GROUNDING = GREEN
- DC SYSTEM:  
POSITIVE = RED  
MID WIRE = WHITE  
NEGATIVE = BLACK

- REPORT INCONSISTENCIES TO THE ENGINEER IN FORM OF "RFI" REQUEST FOR INFORMATION BEFORE ANY INACCURATE WORK IS EXECUTED.
- PROVIDE PROTECTIVE COVERINGS/WIRE GUARDS FOR ALL DEVICES AND EQUIPMENT IN GYMNASIUM.
- OBTAIN ALL TESTS AND APPROVAL CERTIFICATIONS AS REQUIRED.
- REMOVE ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING AND CONDUITS BACK TO NEAREST JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD, WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING TO REMAIN. INSTALL JUNCTION BOXES AND EXTEND FEEDER WITH MATCHING CABLE TYPE, CONDUIT AMPACITY AND CONDUIT SIZES.
- WHERE IT IS IMPRACTICAL TO REMOVE RACEWAY BACK TO SOURCE, DISCONNECT WIRING AT LOAD (EQUIPMENT) AND AT LINE SIDE, CUT AND CAP, FLUSH TO SURFACE. REMOVE CONDUCTORS FROM EXISTING RACEWAYS TO BE REWIRED. CLEAN RACEWAY AS REQUIRED PRIOR TO REWIRING.
- EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.

## GENERAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT

- KEY NOTE  
 EQUIPMENT TAG - SEE EQUIPMENT DATA SHEET.  
EOP# = EQUIPMENT ABBREVIATION  
# = EQUIPMENT NUMBER

- DETAIL BUBBLE  
# = DENOTES DETAIL NUMBER  
# = DENOTES DRAWING NUMBER OF DETAIL LOCATION

- SECTION CUT ARROW  
# = DENOTES SECTION IDENTIFICATION  
# = DENOTES DRAWING NUMBER OF SECTION DETAIL

- NEW CONDUIT/EQUIPMENT  
DENOTES EXISTING-TO-REMAIN  
DENOTES FOR DEMOLITION

- HOMERUN NUMBER, WHERE USED INDICATES DESIGNATED PANEL AND CIRCUIT NUMBER FOR REFERENCE ONLY. WHERE CONDUIT IS NOT SPECIFIED USE AC OR MC CABLE FOR APPLICATION.  
# 2#12, #1#12, 3#12 HOMERUN, ION  
# 3#12, #1#12, 3#12 HOMERUN, ION  
# 4#12, #1#12, 3#12 HOMERUN, ION  
AT 12V AND OVER 100' CIRCUIT LENGTH PROVIDE #10 MINIMUM  
AT 277V AND OVER 200' CIRCUIT LENGTH PROVIDE #10 MINIMUM  
EWC = ELECTRIC WATER COOLER

## LIGHTING SYMBOLS

- DIMMER ZONE HOMERUN
- CEILING MOUNTED DOWNLIGHT  
CONNECTED TO NORMAL CIRCUIT  
A = FIXTURE TYPE
- CEILING MOUNTED DOWNLIGHT  
CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR 90 MINUTES BATTERY BACKUP  
A = FIXTURE TYPE
- CEILING MOUNTED DOWNLIGHT  
CONNECTED TO CRITICAL/STANDBY CIRCUIT  
A = FIXTURE TYPE

- 2'X4'(2'X4'X1') FLUORESCENT CEILING MOUNTED FIXTURE  
A = FIXTURE TYPE

- 2'X4'(2'X4'X1') FLUORESCENT CEILING MOUNTED FIXTURE EQUIPPED  
CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR 90 MINUTES BATTERY BACKUP  
A = FIXTURE TYPE

- LIGHT TRACK-TYPE 'A' WITH TRACK MOUNTED FIXTURE TYPE 'B'

- WALL/CEILING SURFACE MOUNTED FLUORESCENT STRIP FIXTURE-TYPE AS NOTED  
A = FIXTURE TYPE

- WALL MOUNTED SCONCE LIGHT FIXTURE  
A = FIXTURE TYPE

- ACCENT LIGHT OR WALL WASHER  
A = FIXTURE TYPE

- EXTERIOR LIGHTING FIXTURE (BRACKET TYPE)  
A = FIXTURE TYPE

- ROADWAY LIGHTING FIXTURE-SINGLE ARM  
A = FIXTURE TYPE

- ROADWAY LIGHTING FIXTURE-DOUBLE ARM  
A = FIXTURE TYPE

- CEILING/WALL MOUNTED EXIT SIGN DIRECTIONAL ARROWS WHERE INDICATED SHADED AREAS INDICATE ILLUMINATED FACE/FACES

- EMERGENCY BATTERY LIGHT UNIT  
A = FIXTURE TYPE

- REMOTE LIGHT HEADS FOR EMERGENCY BATTERY LIGHT UNIT TYPE AS NOTED

- SINGLE POLE SWITCH  
FLUSH WALL MOUNTED @ 48" AFF, ION  
3 = THREE-WAY  
4 = FOUR-WAY  
D = INTEGRAL DIMMER  
T = TIME SWITCH

- MECHANICAL TOGGLE SWITCH

- OCCUPANCY SENSOR/VACANCY SENSOR, 180'  
RANGE WALL MOUNTED @ 10' BELOW FINISHED CEILING

- OCCUPANCY SENSOR/VACANCY SENSOR, 360'  
RANGE CEILING MOUNTED

- PHOTOCCELL CONTROL SWITCH - WALL MOUNTED OUTDOOR

- PHOTOCCELL DAYLIGHT HARVESTING CONTROL SWITCH, CEILING MOUNTED INDOOR

- AUTOMATIC LOAD CONTROL RELAY - PER UL924  
CONDITIONAL POWER IS AVAILABLE. LOAD LIGHTS SHALL BE CONTROLLABLE  
WHEN NORMAL POWER FAILS, RELAY SWITCHES TO EMERGENCY POWER SOURCE AND LOAD LIGHTS ARE FORCED ON.

- POWER PACK FOR LIGHTING

- LIGHTING DIMMER PANEL, WALL MOUNTED @ 48" AFF, ION  
TYPE A, 200W MIN WATTAGE RATING, ION

- LIGHTING CONTROLS SEQUENCE OF OPERATION  
OCCUPANCY TYPE TAG

## SINGLE LINE SYMBOLS

NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT

- POWER TRANSFORMER  
VOLTAGES, WINDINGS AND SIZE AS INDICATED
- GROUND CONNECTION
- FUSED SWITCH  
-SWITCH AMPS>>TYPE 'A' FUSE AMPS>

- UNFUSED SWITCH  
-SWITCH AMPS>
- CIRCUIT BREAKER - MOLDED CASE TYPE  
PHASES A = BLACK  
B = RED  
CIRCUIT BREAKER - DRAW-OUT TYPE  
-FRAME AMPS>>-TRIP AMPS>

- NETWORK PROTECTOR  
-FRAME AMPS>>-TRIP AMPS>

- DIGITAL MULTIMETER

- CURRENT TRANSFORMER  
NUMBER AND RATIO AS INDICATED

- TRANSIENT VOLTAGE SURGE SUPPRESSION

## POWER SYMBOLS

NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT

- JUNCTION BOX / TERMINATION TO EQUIPMENT  
INSTALLED WITHIN 2' OF EQUIPMENT WHERE REQUIRED AND DEDICATED FOR:  
VAV VARIABLE AIR VOLUME BOX  
MD MOTORIZED VOLUME DAMPER  
SD SMOKE DAMPER  
CUH CABINET UNIT HEATER  
EUH ELECTRIC UNIT HEATER  
FCU FAN COIL UNIT  
HT HEAT TRACE

- JUNCTION BOX/TERMINATION TO MOTOR  
INSTALLED WITHIN 2' OF EQUIPMENT WHERE REQUIRED AND DEDICATED FOR:  
EF EXHAUST FAN  
HD HAND DRYER

- 15 or 20A, 125V DUPLEX RECEPTACLE, FLUSH WALL MOUNTED @ 18" AFF, ION  
C = GRAY COLORED RECEPTACLE FOR COMPUTERS OR OTHER EQUIPMENT

- 15 or 20A, 125V QUADRUPLUX RECEPTACLE  
FLUSH WALL MOUNTED @ 18" AFF, ION  
XP = EXPLOSION PROOF  
AFI = ARC FLASH CIRCUIT INTERRUPTER

- 15 or 20A, 125V QUADRUPLUX RECEPTACLE  
FLUSH WALL MOUNTED @ 18" AFF, ION  
EWC = ELECTRIC WATER COOLER



### GENERAL DEMOLITION NOTES

- CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE AND VERIFY ALL QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES THAT ARE TO BE DEMOLISHED PRIOR TO BID. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
- REPAIR ANY SURFACES DISTURBED DURING REMOVAL OR REPLACEMENT OF EQUIPMENT AND DEVICES. PREPARE REPAIRED SURFACES FOR NEW FINISHES IN NEW WORK PHASE.
- DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES. NOTE RECEPTACLES SHOWN ON PLAN MAY NOT INCLUDE ALL RECEPTACLES TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND REMOVING ALL RECEPTACLES, ASSOCIATED EQUIPMENT, CONDUIT AND WIRING BACK TO SOURCE.
- DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES. NOTE LIGHT FIXTURES SHOWN ON PLAN MAY NOT INCLUDE ALL FIXTURES TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND REMOVING ALL LIGHT FIXTURES, ASSOCIATED EQUIPMENT, CONTROLS, CONDUIT AND WIRING BACK TO SOURCE.
- DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL CONNECTIONS SERVICING OUTSIDE AIR INTAKE FANS AND ANY OTHER MISCELLANEOUS EXISTING MECHANICAL HVAC EQUIPMENT AS SHOWN ON THE MECHANICAL DEMOLITION PLANS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT AND WIRE BACK TO SOURCE.

### DEMOLITION NOTES

- COORDINATE DISCONNECTION OF SERVICE WITH PECO. DISCONNECT AND REMOVE EXISTING 400A, 120/240V, 1PHASE, 3W MAIN ELECTRICAL DISTRIBUTION EQUIPMENT, DISCONNECT SWITCHES, PANELS, CT CABINET AND UTILITY METERING IN THIS AREA. DISCONNECT AND REMOVE ALL ASSOCIATED EQUIPMENT, CONDUIT AND WIRING BACK TO SOURCE.
- REMOVE EXISTING CYCLONE FENCE.
- DISCONNECT EXISTING POOL FILTER FROM UNFUSED DISCONNECT SWITCH ON THE LINE SIDE. REMOVE EXISTING WIRING BACK TO POINT OF ORIGIN. RETAIN CONDUIT FOR RE-USE. PROTECT EQUIPMENT DURING WORK.
- DISCONNECT AND REMOVE ALL CONDUIT, WIRING AND ALL ASSOCIATED APPURTENANCES FOR THE ELEVATOR INCLUDING BUT NOT LIMITED TO, DISCONNECT SWITCHES.
- DISCONNECT AND REMOVE DISTRIBUTION PANEL.

### REVISIONS

ISSUE	DATE	DESCRIPTION
06/02/23	ISSUE FOR BID	



REVIEWED BY:

PROJECT COORDINATOR

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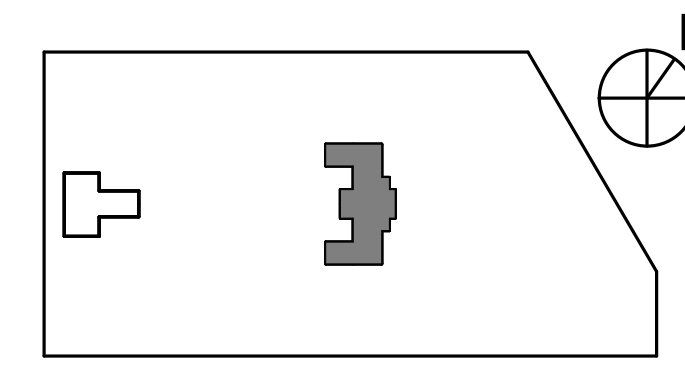
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**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2

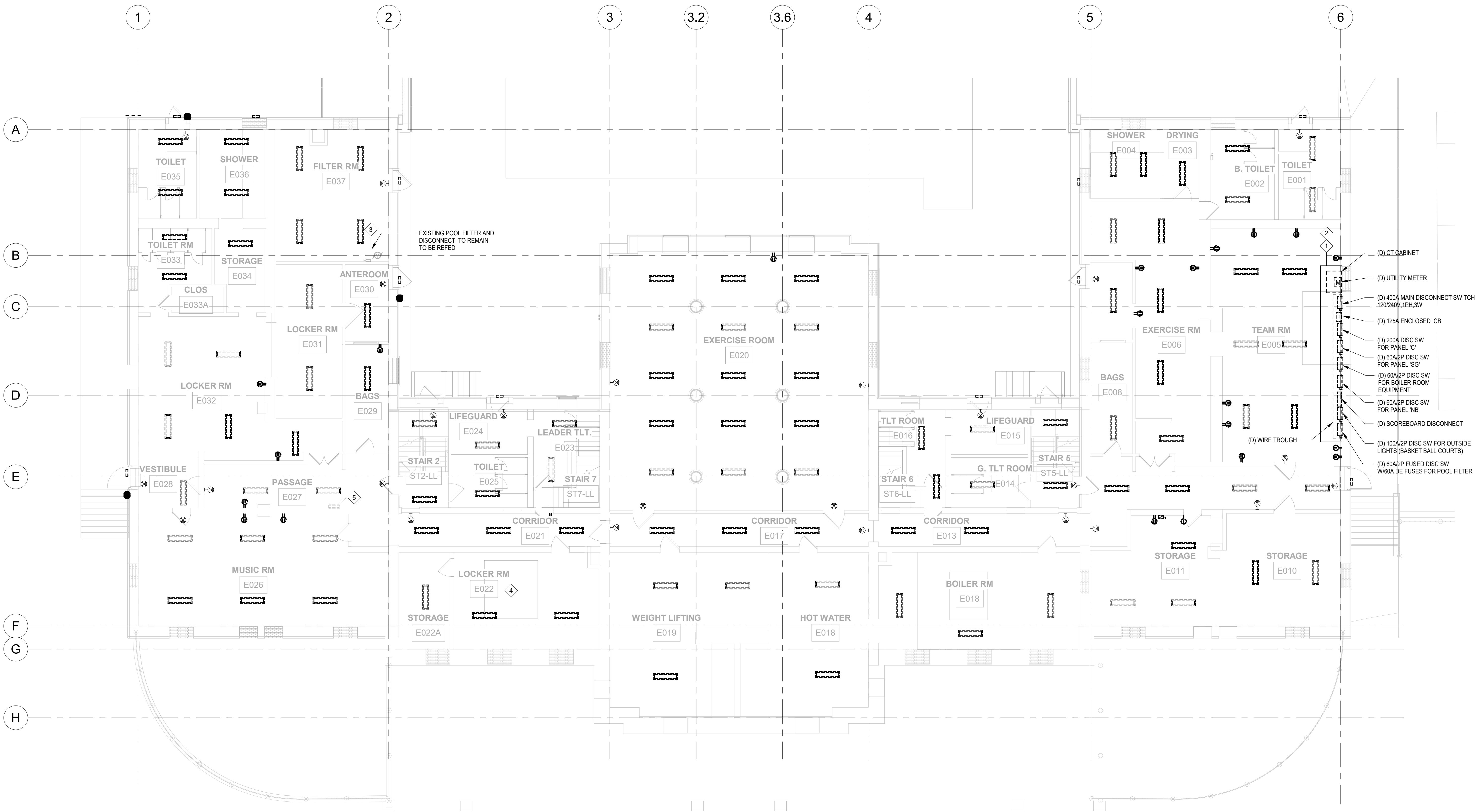
**KEY PLAN**



**DRAWING TITLE**  
ELECTRICAL DEMOLITION - LOWER LEVEL BASE SCOPE

PROJECT NO. KMLX21003	DRAWING NO. E100-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: NSL	
CHECKED BY: JR	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 ELECTRICAL DEMOLITION - REC CENTER LOWER LEVEL - BASE SCOPE  
1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023



**GENERAL DEMOLITION NOTES**

1. CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE AND VERIFY ALL QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES THAT ARE TO BE DEMOLISHED PRIOR TO BID. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
2. REPAIR ANY SURFACES DISTURBED DURING REMOVAL OR REPLACEMENT OF EQUIPMENT AND DEVICES. PREPARE REPAIRED SURFACES FOR NEW FINISHES IN NEW WORK PHASE.
3. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES. NOTE RECEPTACLES SHOWN ON PLAN MAY NOT INCLUDE ALL RECEPTACLES TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND REMOVING ALL RECEPTACLES, ASSOCIATED EQUIPMENT, CONDUIT AND WIRING BACK TO SOURCE.
4. DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES. NOTE LIGHT FIXTURES SHOWN ON PLAN MAY NOT INCLUDE ALL RECEPTACLES TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND REMOVING ALL LIGHT FIXTURES, ASSOCIATED EQUIPMENT, CONTROLS, CONDUIT AND WIRING BACK TO SOURCE.
5. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL CONNECTIONS SERVING OUTSIDE AIR INTAKE FANS AS SHOWN ON THE MECHANICAL DEMOLITION PLANS AND ANY OTHER MISCELLANEOUS EXISTING MECHANICAL/HVAC EQUIPMENT. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT AND WIRING BACK TO SOURCE.

**DEMOLITION NOTES**

1. DISCONNECT AND REMOVE BRANCH PANEL. DISCONNECT AND REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO POINT OF ORIGIN.

**REVISIONS**

ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



REVIEWED BY:  
PROJECT COORDINATOR:  
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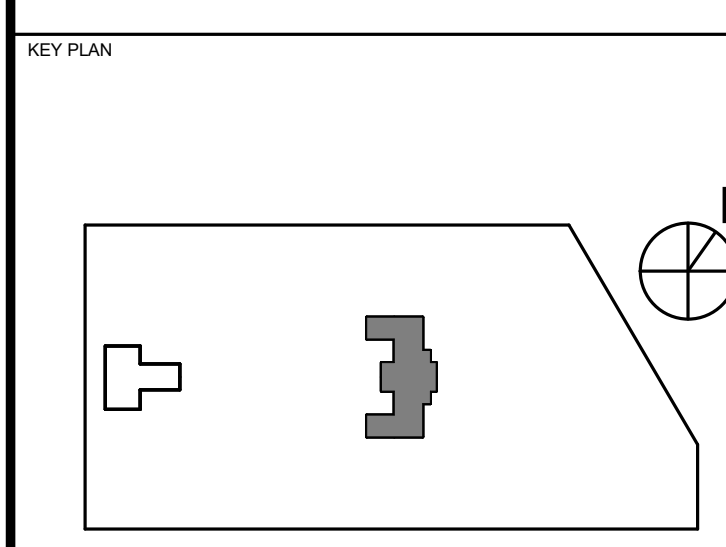
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

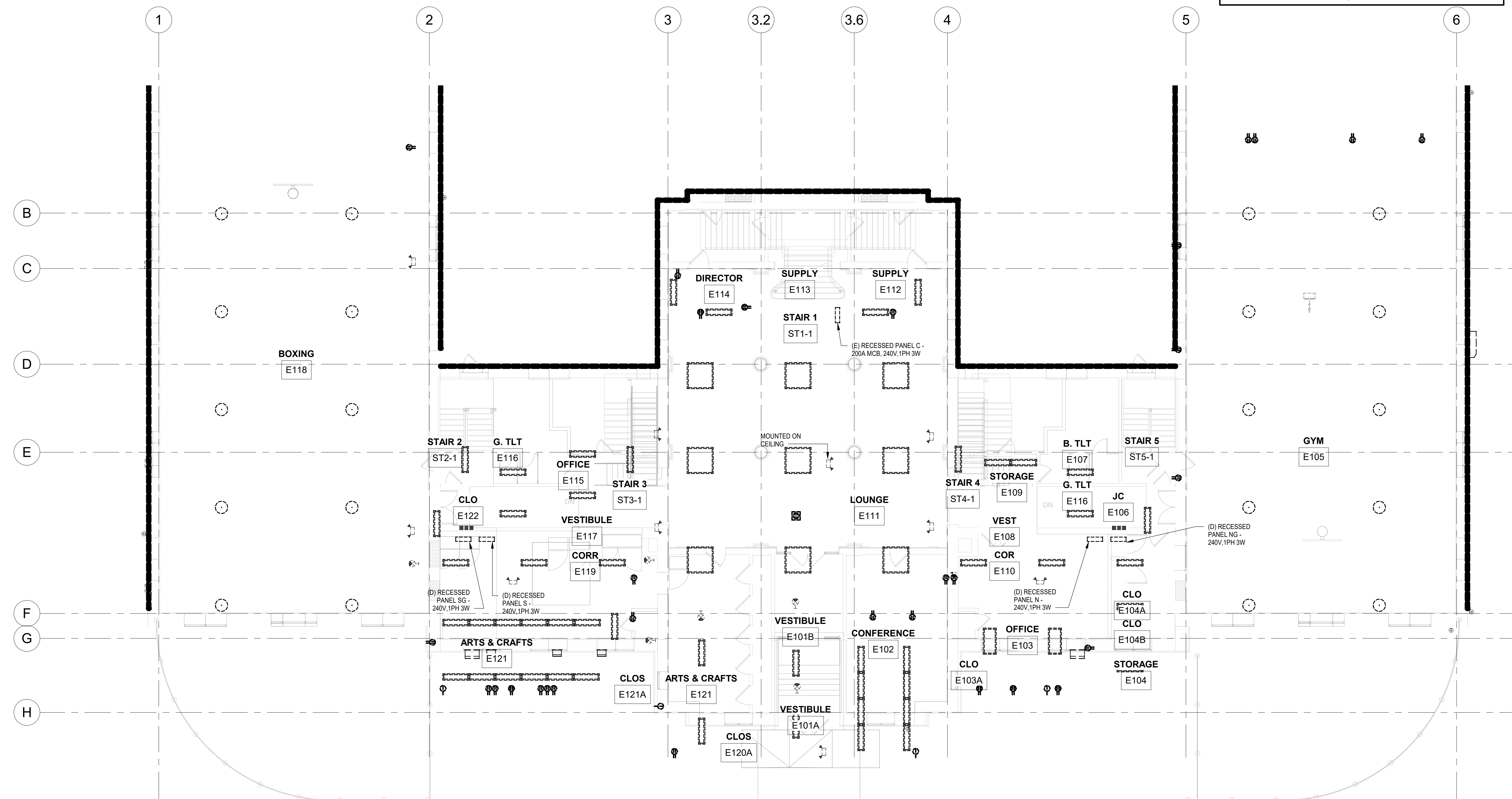


DRAWING TITLE  
**ELECTRICAL DEMOLITION - FIRST FLOOR**

PROJECT NO. KMLX21003  
DATE 04/21/2023  
SCALE AS NOTED  
DRAWN BY: NSL  
CHECKED BY: JR

DRAWING NO. E101-R.2

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



**1 ELECTRICAL DEMOLITION - REC CENTER FIRST FLOOR**  
E101-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023



- ### GENERAL DEMOLITION NOTES
- CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE AND VERIFY ALL QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES THAT ARE TO BE DEMOLISHED PRIOR TO BID. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
  - REPAIR ANY SURFACES DISTURBED DURING REMOVAL OR REPLACEMENT OF EQUIPMENT AND DEVICES. PREPARE REPAIRED SURFACES FOR NEW FINISHES IN NEW WORK PHASE.
  - DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES. NOTE RECEPTACLES SHOWN ON PLAN MAY NOT INCLUDE ALL RECEPTACLES TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND REMOVING ALL RECEPTACLES, ASSOCIATED EQUIPMENT, CONDUIT AND WIRING BACK TO SOURCE.
  - DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES. NOTE LIGHT FIXTURES SHOWN ON PLAN MAY NOT INCLUDE ALL RECEPTACLES TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND REMOVING ALL LIGHT FIXTURES, ASSOCIATED EQUIPMENT, CONTROLS, CONDUIT AND WIRING BACK TO SOURCE.
  - DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL CONNECTIONS SERVICING EXHAUST FANS AS SHOWN ON THE MECHANICAL DEMOLITION PLANS AND ANY OTHER MISCELLANEOUS EXISTING MECHANICAL/HVAC EQUIPMENT. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT AND WIRING BACK TO SOURCE.

- ### DEMOLITION NOTES
- DISCONNECT AND REMOVE BRANCH PANEL. DISCONNECT AND REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO POINT OF ORIGIN.

REVISIONS		
ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



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SEALS:



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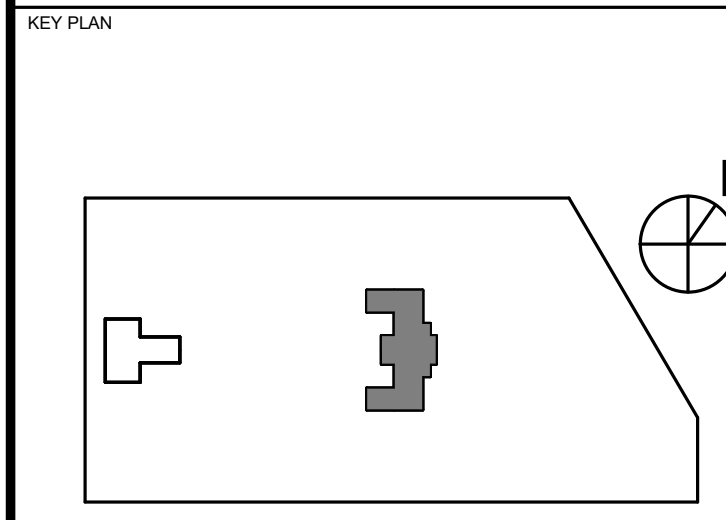
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PROJECT TITLE  
**KINGSSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**ELECTRICAL DEMOLITION - SECOND FLOOR**

PROJECT NO. KMLX21003	DRAWING NO. <b>E102-R.2</b>
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: NS	CHECKED BY: JR

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



**1 ELECTRICAL DEMOLITION - REC CENTER SECOND FLOOR**  
E102-R.2 1/8" = 1'-0"

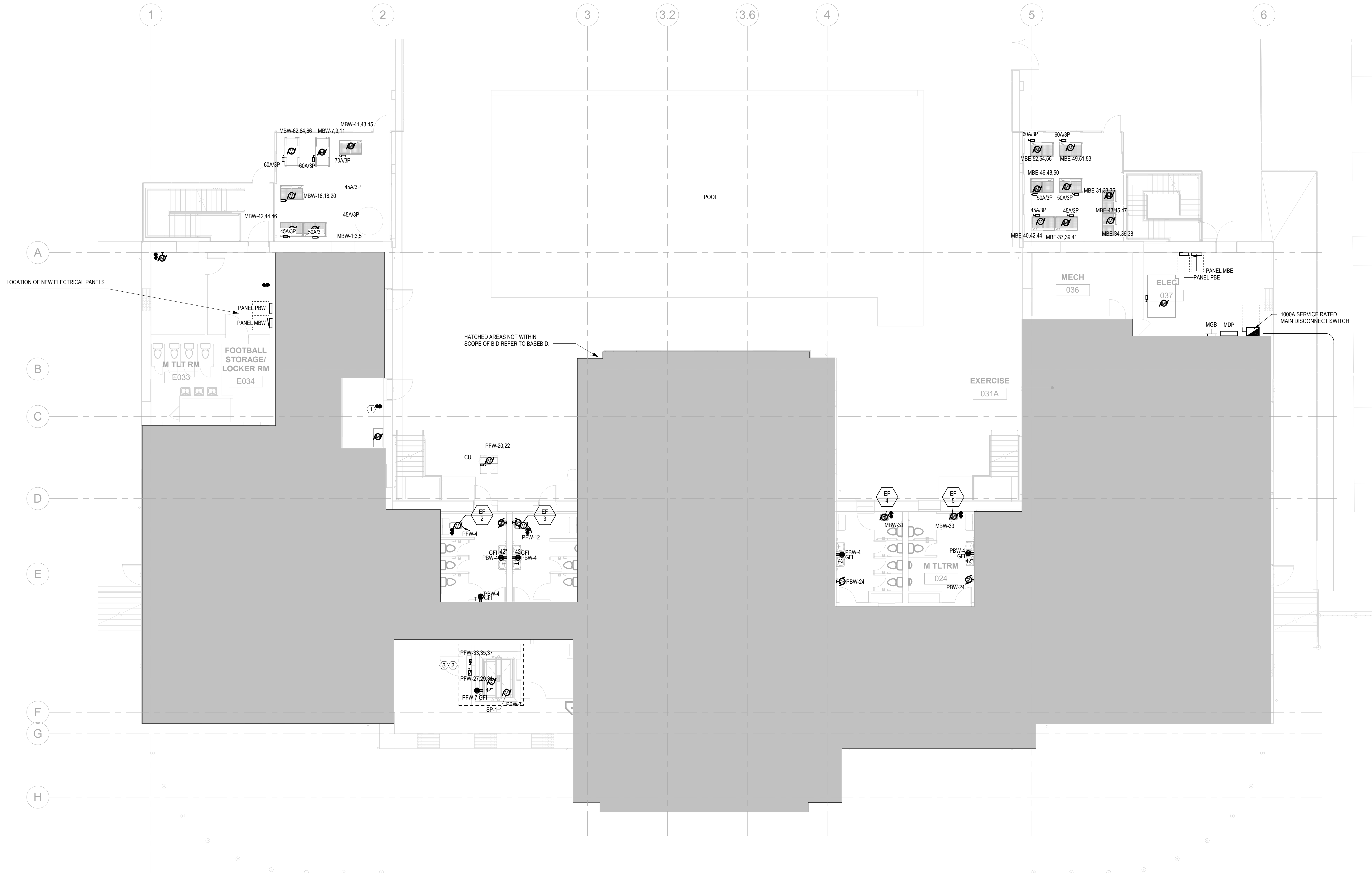
PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023





- ### GENERAL NOTES
1. ALL RECEPTACLES LOCATED IN PUBLIC SPACES TO BE TAMPER RESISTANT IN ACCORDANCE WITH NEC SECTION 406.12 EXCEPT RECEPTACLES LOCATED BY AFF.
  2. PROVIDE ALLOWNACE FOR 24 V TRANSFORMER LOOVERS XFMRs AND CIRCUITS.
  3. PROVIDE POWER TO 208V, 1PH, 19W EXTERNAL CONDENSATE PUMP LOCATED AT EACH AC UNIT. POWER CONDENSATE PUMP FROM THE SAME CIRCUIT AS THE AC UNIT IT SERVES.
  4. DATA TELECOMMUNICATIONS SECURITY RECEPTACLES AND CONDUIT TO BE PROVIDED BY CONTRACTOR. REFER TO TELECOMMUNICATIONS PLANS.
  5. FOR ALTERNATIVE BID, CONTRACTOR TO PROVIDE ALL NEW ELECTRICAL PANELS AS PER THE BASE BID AND UTILIZE NEW PANELS FOR EXISTING EQUIPMENT AND LIGHTING LOADS NOT REPLACED IN ALTERNATE BID.

- ### NEW WORK NOTES
1. PROVIDE A 15 kVA 208/240V SINGLE PHASE TRANSFORMER FOR EXISTING 240V SINGLE PHASE POOL FILTER LOCATED IN FILTER ROOM 002.
  2. PROVIDE MAIN ELEVATOR DISCONNECT SWITCH WITH SHUNT TRIP COORDINATE MAIN ELEVATOR DISCONNECT SIZE WITH ELEVATOR VENDOR.
  3. COORDINATE ELEVATOR CAB DISCONNECT SIZE WITH ELEVATOR VENDOR.



2 ELECTRICAL PROPOSED POWER - LOWER LEVEL - DEDUCT  
 EX-200B-R.2 1/8" = 1'-0"

### REVISIONS

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



REVIEWED BY:  
 PROJECT COORDINATOR:  
 SEAL:



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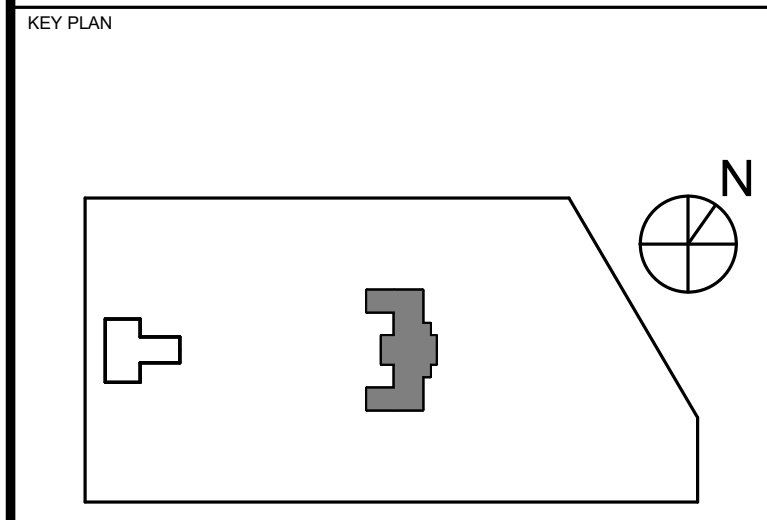
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



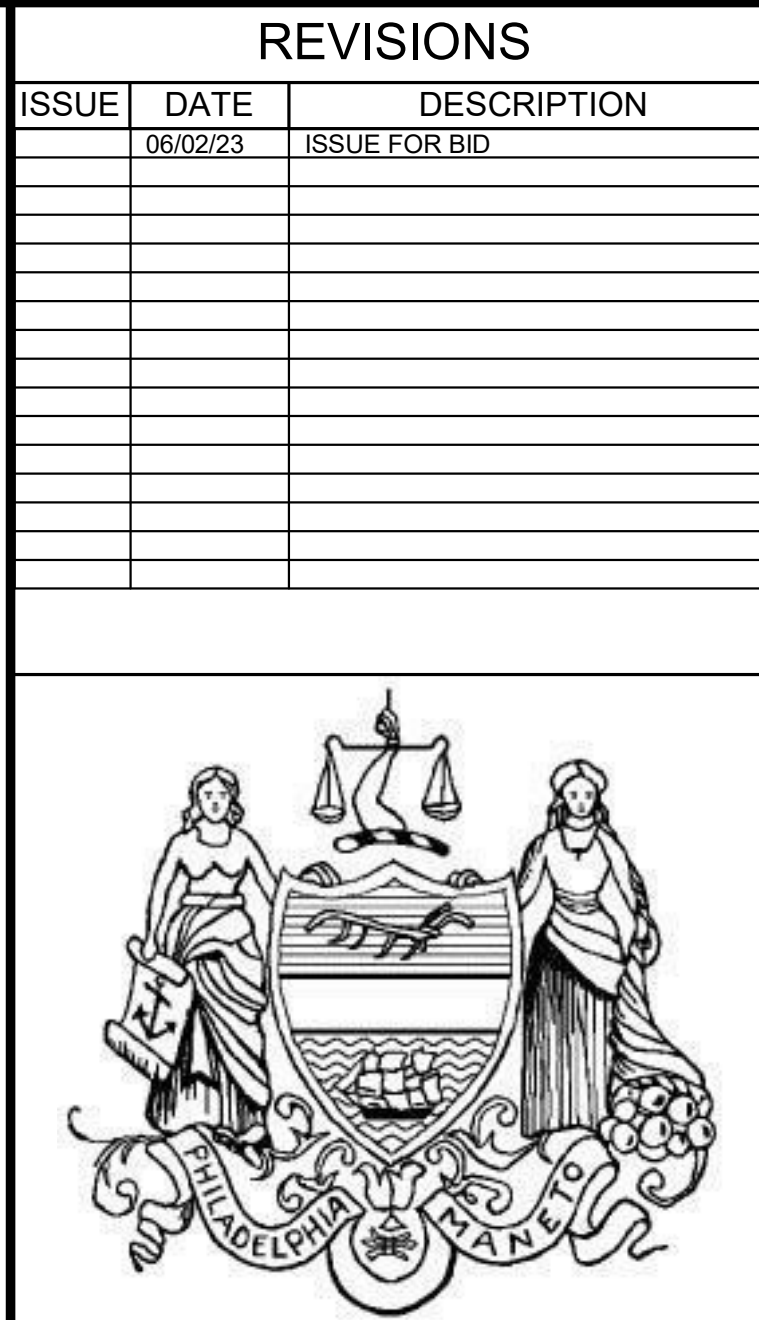
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**ELECTRICAL PROPOSED POWER - LOWER LEVEL DEDUCT ALT.**

PROJECT NO. KMLX21003	DRAWING NO. E200B-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

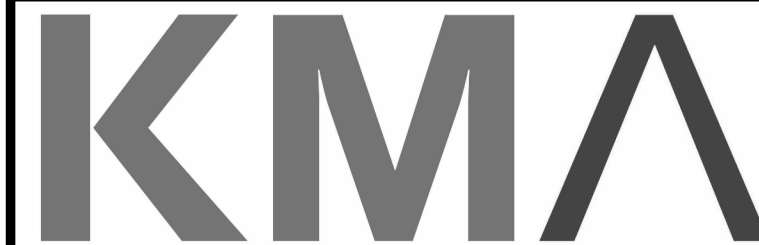
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PACKAGE 2 - IFB  
 NOT FOR CONSTRUCTION  
 06/02/2023

- GENERAL NOTES**
1. ALL RECEPTACLES LOCATED IN PUBLIC SPACES TO BE TAMPER RESISTANT IN ACCORDANCE WITH NEC SECTION 406.12. EXCEPT RECEPTACLES LOCATED 5' AFF.
  2. PROVIDE ALLOWNACE FOR 24 V CONTROL XFMR'S AND CIRCUITS.
  3. PROVIDE POWER TO 20V, 1PH, 19W EXTERNAL CONDENSATE PUMP LOCATED AT EACH AC UNIT. POWER CONDENSATE PUMP FROM THE SAME CIRCUIT AS THE AC UNIT IT SERVES.
  4. DATA/TELECOMMUNICATIONS SECURITY RECEPTACLES AND CONDUIT TO BE PROVIDED BY CONTRACTOR. REFER TO TELECOMMUNICATIONS PLANS.
  5. FOR ALTERNATIVE BID, CONTRACTOR TO PROVIDE ALL NEW ELECTRICAL PANELS AS PER THE BASE BID AND UTILIZE NEW PANELS FOR EXISTING EQUIPMENT AND LIGHTING LOADS NOT REPLACED IN ALTERNATE BID.



REVIEWED BY:  
PROJECT COORDINATOR:  
SEALS:



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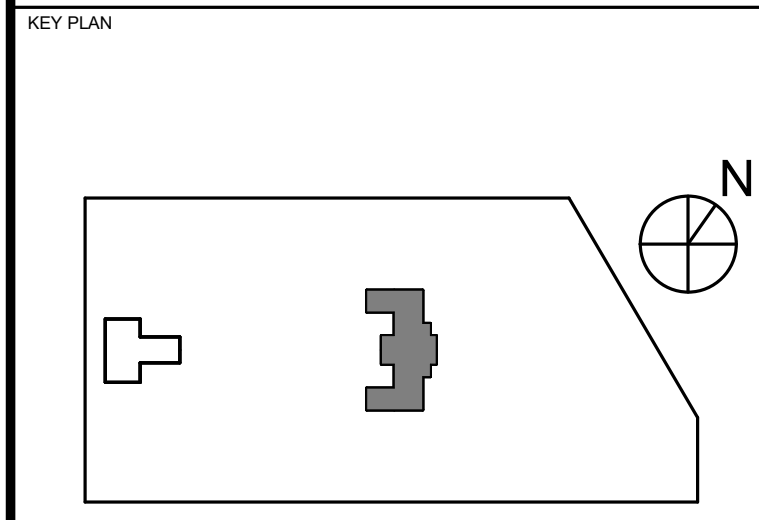
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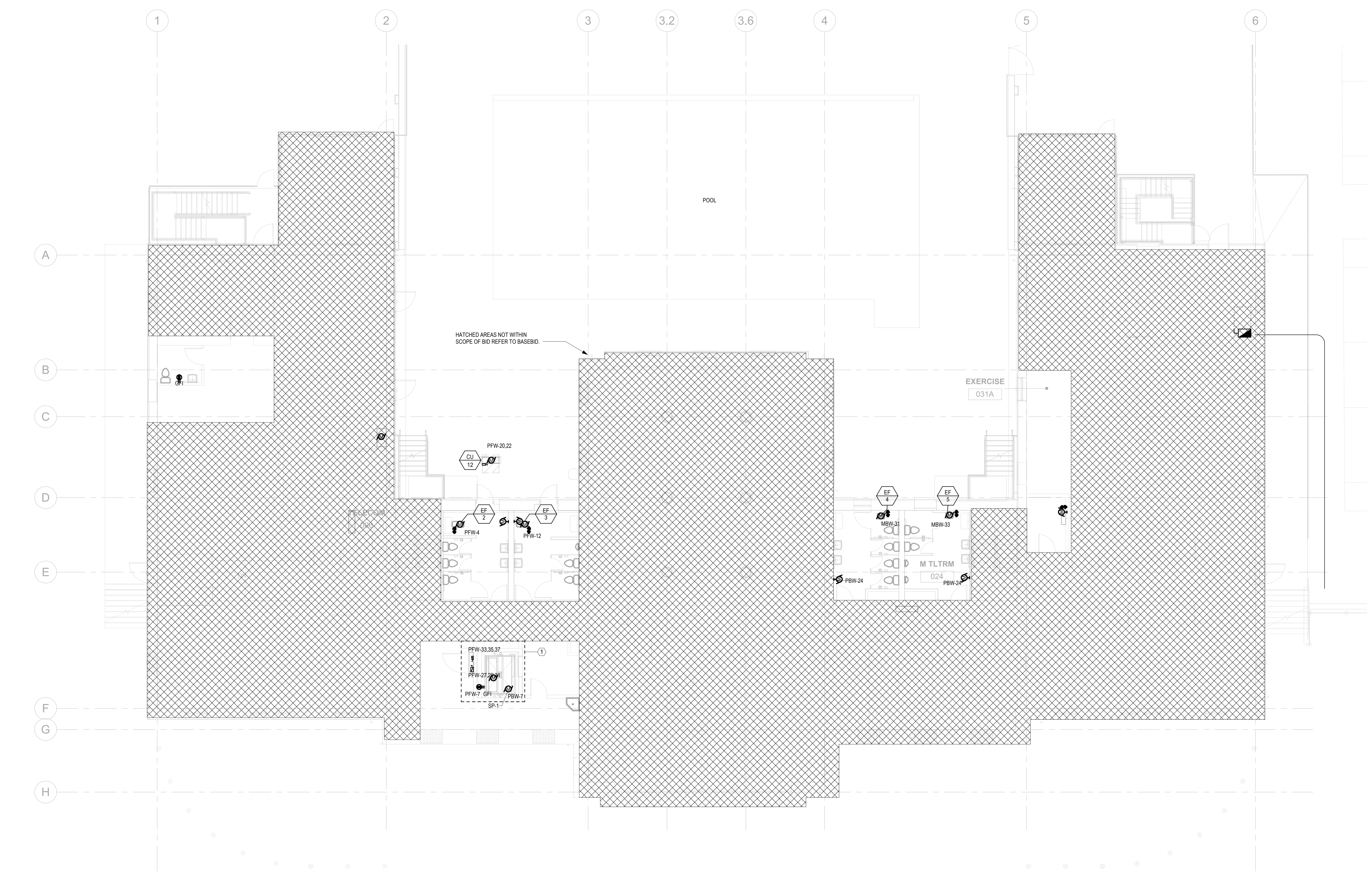
**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



**DRAWING TITLE**  
ELECTRICAL PROPOSED POWER - LOWER LEVEL ADD ALT.

PROJECT NO. KMLX21003	DRAWING NO. E200C-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



**2 ELECTRICAL PROPOSED POWER - LOWER LEVEL - ADD ALTERNATE**  
E200C-R.2 1/8" = 1'-0"

**PACKAGE 2 - IFB**  
**NOT FOR CONSTRUCTION**  
06/02/2023





**GENERAL NOTES**

1. ALL RECEPTACLES LOCATED IN PUBLIC SPACES TO BE TAMPER RESISTANT IN ACCORDANCE WITH NEC SECTION 406.12. EXCEPT RECEPTACLES LOCATED 5'8" AFF.
2. PROVIDE ALLOWANCE FOR 24 V CONTROL XFMR'S AND CIRCUITS.
3. PROVIDE POWER TO 208V, 1PH, 19W EXTERNAL CONDENSATE PUMP LOCATED AT EACH AC UNIT. POWER CONDENSATE PUMP FROM THE SAME CIRCUIT AS THE AC UNIT IT SERVES.
4. DATA/TELECOMMUNICATION/SECURITY RECEPTACLES AND CONDUIT TO BE PROVIDED BY CONTRACTOR. REFER TO TELECOMMUNICATIONS PLANS.

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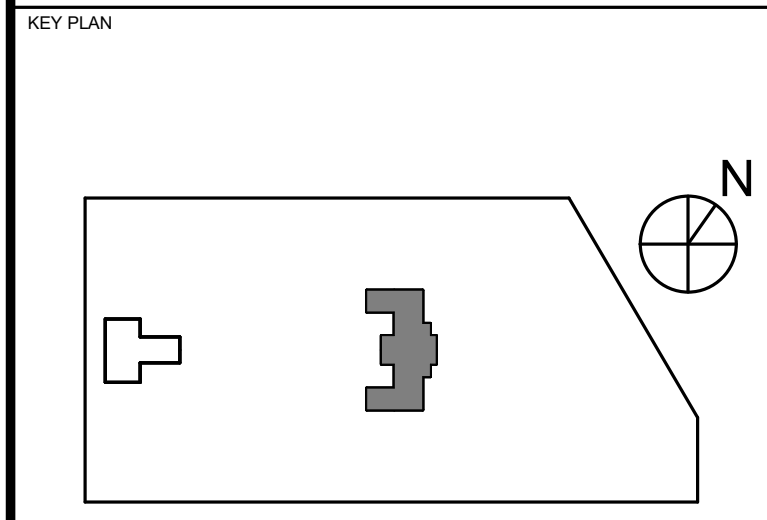
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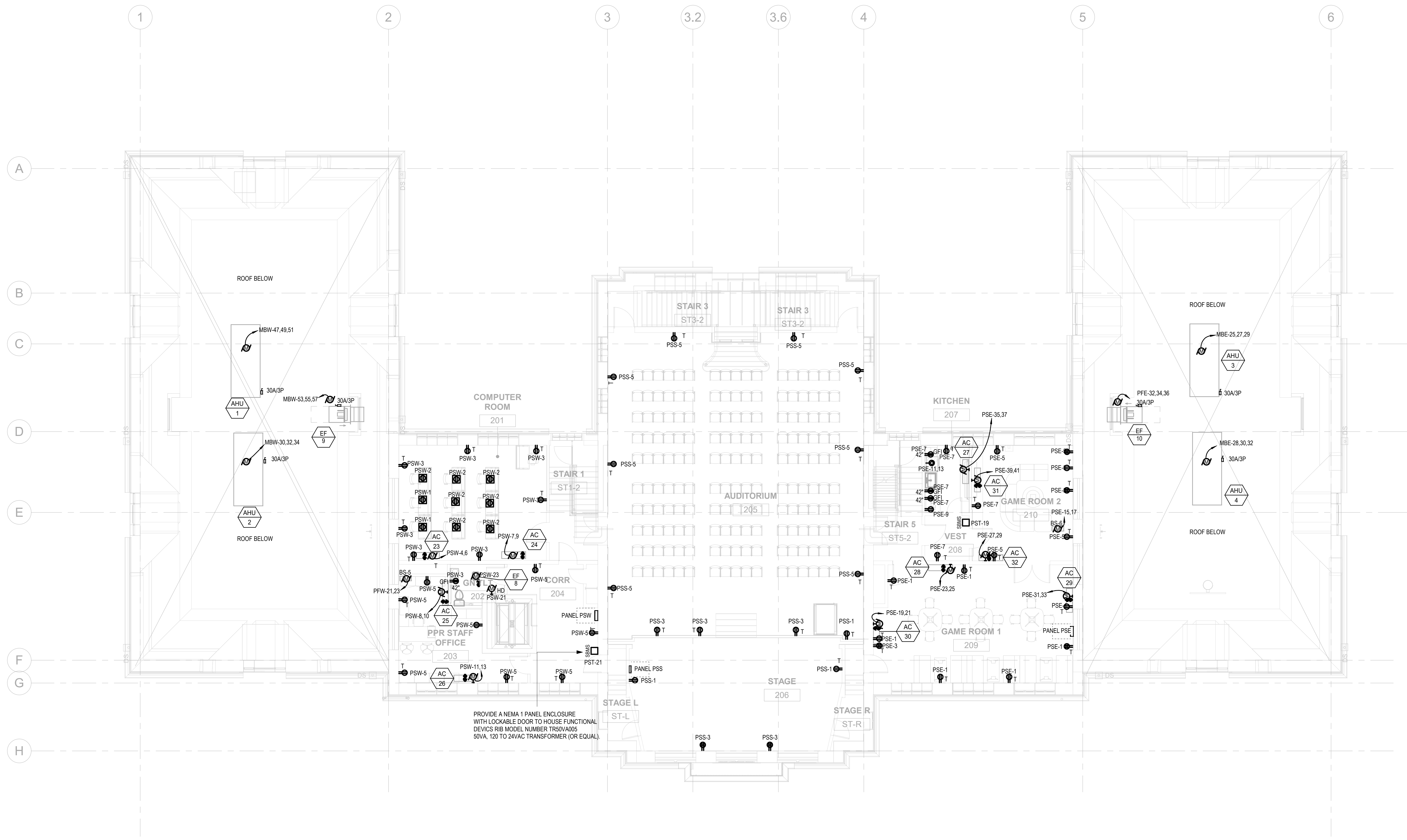
PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**ELECTRICAL PROPOSED POWER - SECOND FLOOR**

PROJECT NO. KMLX21003	DRAWING NO. E202-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: JR

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 ELECTRICAL PROPOSED POWER - REC CENTER SECOND FLOOR  
E202-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023



**GENERAL NOTES**

1. ALL RECEPTACLES LOCATED IN PUBLIC SPACES TO BE TAMPER RESISTANT IN ACCORDANCE WITH NEC SECTION 406.12. EXCEPT RECEPTACLES LOCATED 5' AFF.
2. PROVIDE ALLOWANCE FOR 24 V CONTROL XFMR'S AND CIRCUITS.
3. PROVIDE POWER TO 208V, 1PH, 15W EXTERNAL CONDENSATE PUMP LOCATED AT EACH AC UNIT. POWER CONDENSATE PUMP FROM THE SAME CIRCUIT AS THE AC UNIT IT SERVES.
4. DATA/TELECOMMUNICATION/SECURITY RECEPTACLES AND CONDUIT TO BE PROVIDED BY CONTRACTOR. REFER TO TELECOMMUNICATIONS PLANS.

**REVISIONS**

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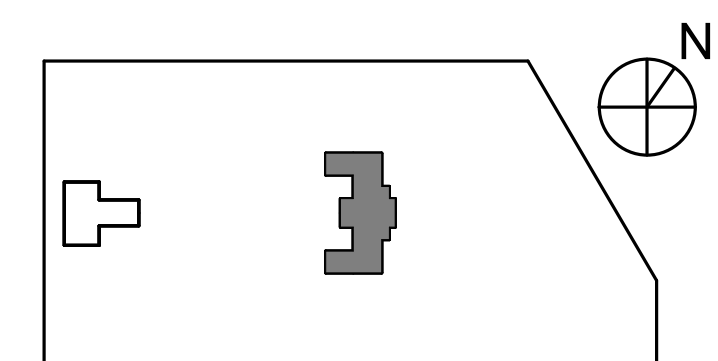
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

KEY PLAN



DRAWING TITLE  
**ELECTRICAL PROPOSED POWER - ATTIC/ROOF**

PROJECT NO. KLMLX21003

DATE 04/21/2023

SCALE AS NOTED

DRAWN BY: NSL

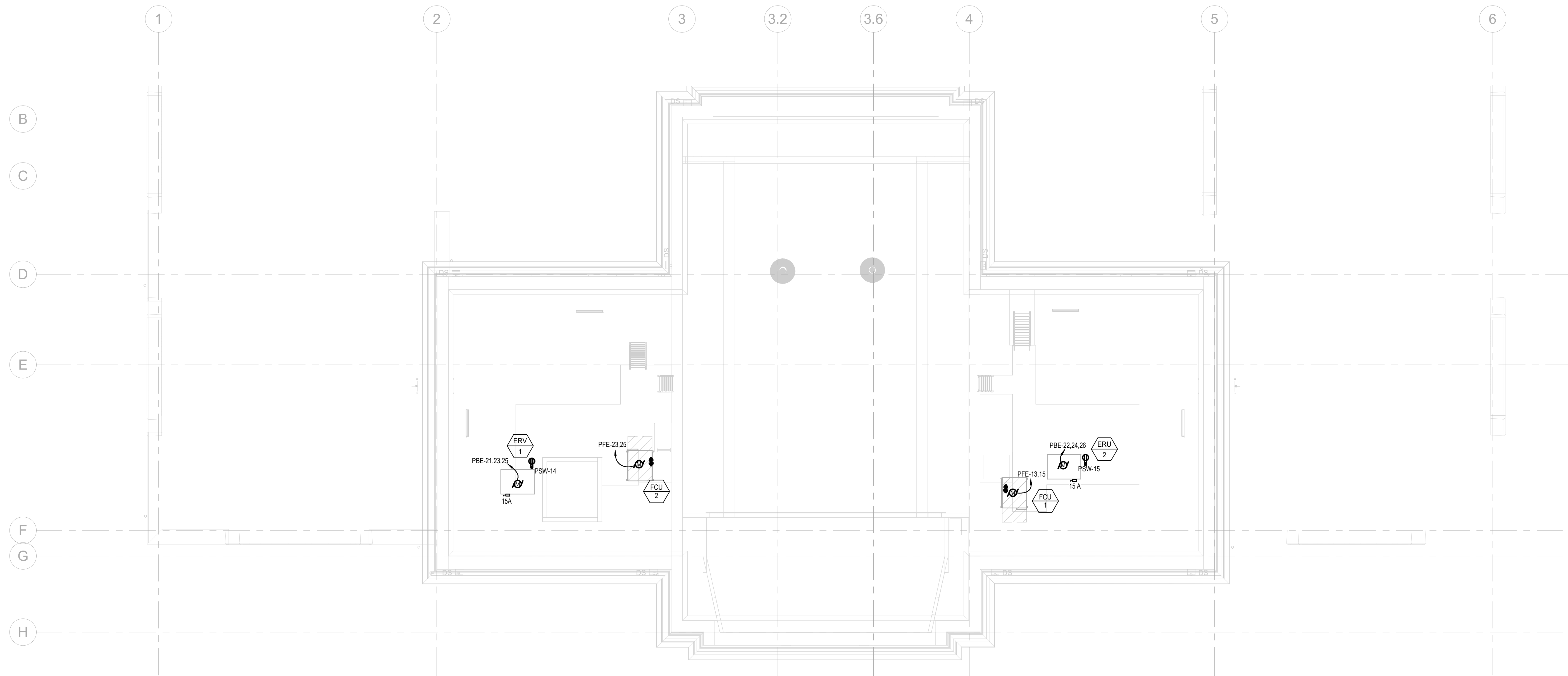
CHECKED BY: JR

DRAWING NO.

**E203-R.2**

**PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023**

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



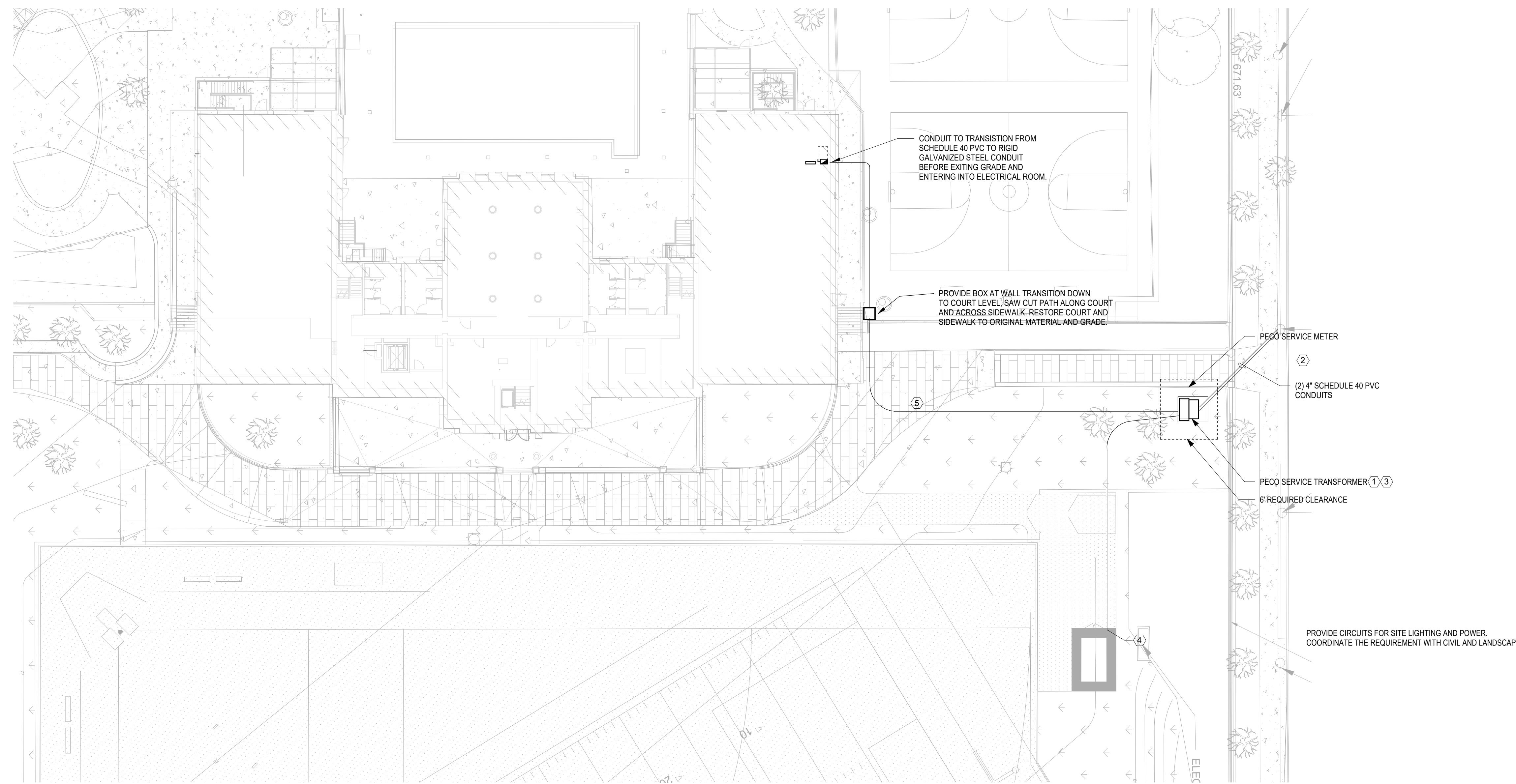
**1 ELECTRICAL PROPOSED POWER - REC CENTER ATTIC**  
E203-R.2 1/8" = 1'-0"

**GENERAL NOTES**

1. PROVIDE 24" MINIMUM COVER FOR ALL UNDERGROUND CONDUIT. PROVIDE WRAPPING TAPE 12" ABOVE ALL CONDUITS.
2. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.
3. FOR SITE LIGHTING AND POWER SEE CIVIL/SITE DRAWINGS

**NEW WORK NOTES**

1. PROVIDE CONCRETE PAD PER PECO BLUE BOOK FOR SERVICE TRANSFORMER PROVIDED BY PECO. SEE DETAIL 2 ON SHEET E600-R.2
2. PROVIDE CABLE IN 4" SCHEDULE 40 PVC CONDUITS FROM PRIMARY SIDE TERMINATIONS IN THE PECO PROVIDED TRANSFORMER TO THE PROPERTY LINE PER PECO SPECIFICATIONS. PECO WILL INTERCEPT CABLE AND CONDUITS FROM PROPERTY LINE AND MAKE ALL TERMINATIONS AT THE POLE.
3. PROVIDE GROUND RING AND GROUND RODS AT TRANSFORMER PER PECO SPECIFICATIONS
4. PROVIDE 2.5" SCHEDULE 40 PVC UNDERGROUND CONDUIT TO SHED. PROVIDE 225A PANEL WITH 200A MCB IN SHED. PROVIDE GROUND TIE TO THE FOUNDATION REBAR AND PROVIDE A MINIMUM OF ONE 8 FOOT LONG GROUND ROD. BOND NEUTRAL AND GROUND AT SERVICE DISCONNECT PER NEC 250.
5. COORDINATE INSTALLATION OF CONDUIT IN SIDE WALK AREA WITH NEW SIDEWALK WORK. SEE CIVIL/SITE DRAWINGS



1 ELECTRICAL PROPOSED POWER - SITE PLAN  
E204-R.2 1" = 20'-0"

**REVISIONS**

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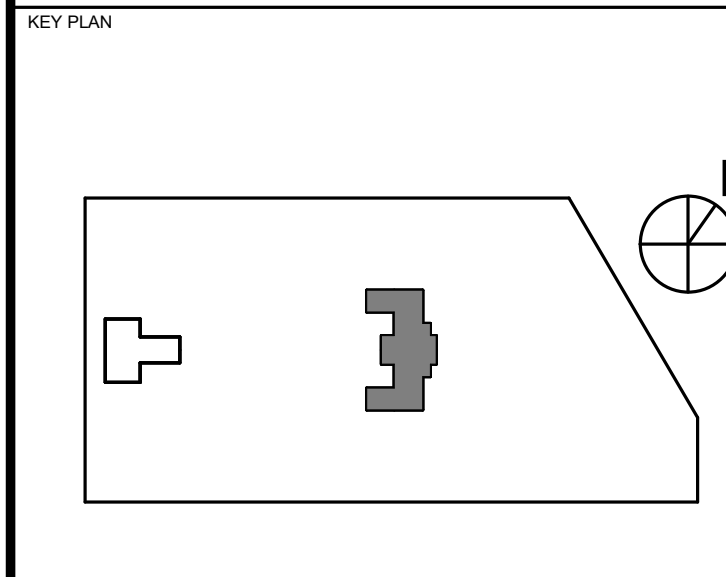
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PROJECT TITLE  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



DRAWING TITLE  
ELECTRICAL PROPOSED POWER - SITE PLAN

PROJECT NO. KMLX21003	DRAWING NO. E204-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
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PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
08/02/2023









- GENERAL NOTES**
1. LIGHTING CONTROLS SHALL BE OF AUTOMATIC TYPE FOR NON-UTILITY SPACES.
  2. LIGHTING CONTROLS FOR UTILITY SPACES SHALL BE NON-AUTOMATIC (TOGGLE-TYPE)
  3. EMERGENCY LIGHTING SHALL BE VIA EMERGENCY BATTERY UNIT INTEGRAL TO SELECTED LIGHT FIXTURE(S), OR BY CONCEALED MINI EMERGENCY BATTERY PACK.
  4. EXIT SIGNS AND BATTERY UNITS SHALL BE CIRCUITED AHEAD OF THE LIGHTING SWITCHES.
  5. MOUNT EXIT SIGNS 12" ABOVE DOORS IN THE PATH OF EGRESS.
  6. EMERGENCY EXIT SIGNS TO BE POWERED FROM LOCAL LIGHTING OR POWER PANEL ON ASSOCIATED FLOOR.
  7. FOR ALTERNATIVE BID, CONTRACTOR TO PROVIDE ALL NEW ELECTRICAL PANELS AS PER THE BASE BID AND UTILIZE NEW PANELS FOR EXISTING EQUIPMENT AND LIGHTING LOADS NOT REPLACED IN ALTERNATE BID.

**REVISIONS**

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	06/02/23	ISSUE FOR BID



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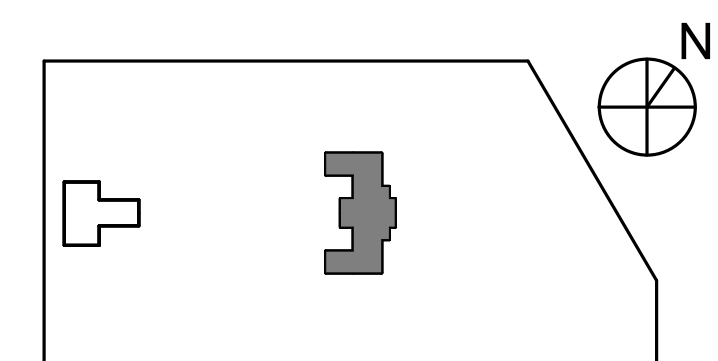
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

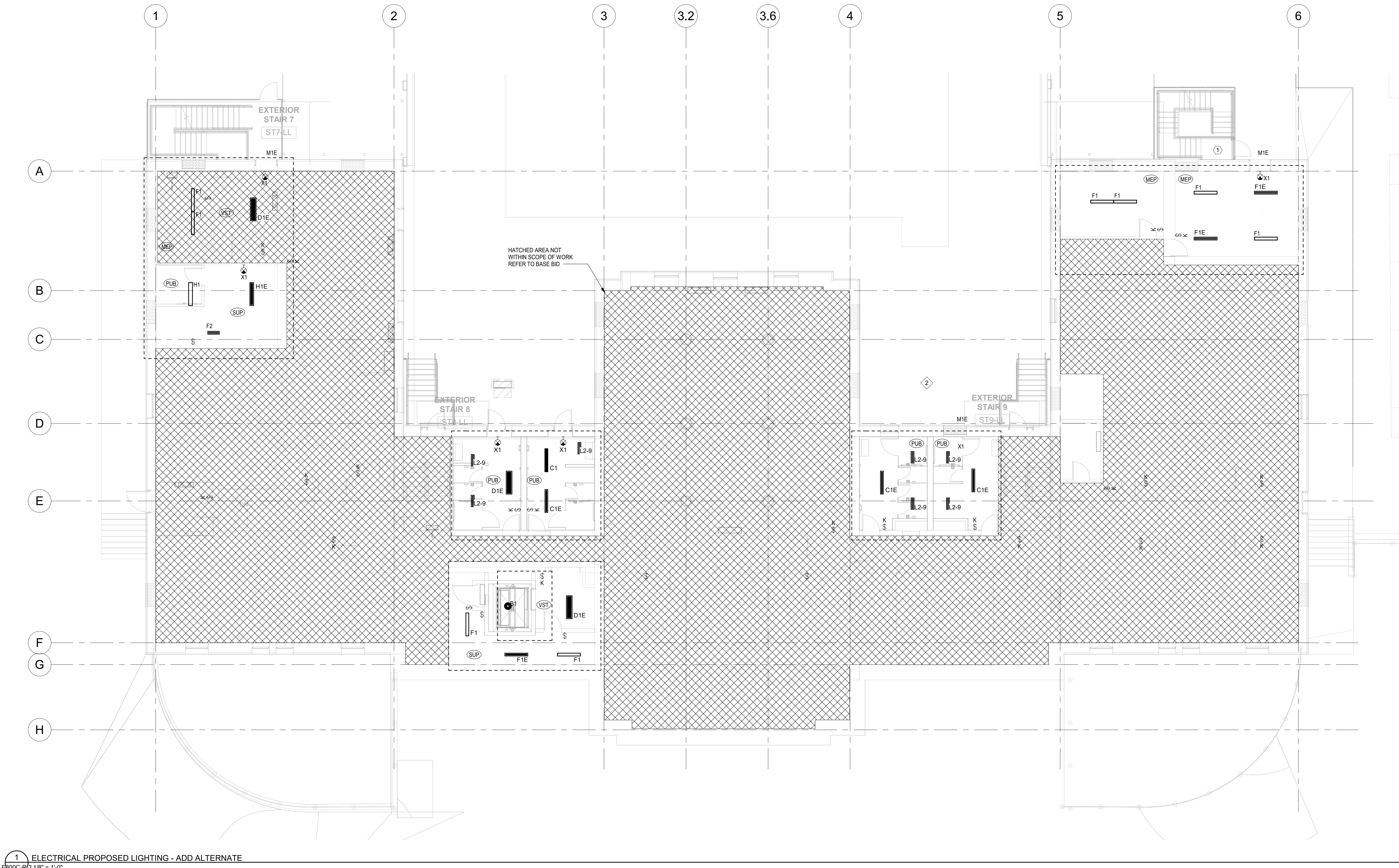
KEY PLAN



DRAWING TITLE  
**ELECTRICAL PROPOSED LIGHTING - LOWER LEVEL ADD ALTERNATE**

PROJECT NO. KMLX21003	DRAWING NO. E300C-R.2
DATE 04/21/2023	
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DRAWN BY: Author	
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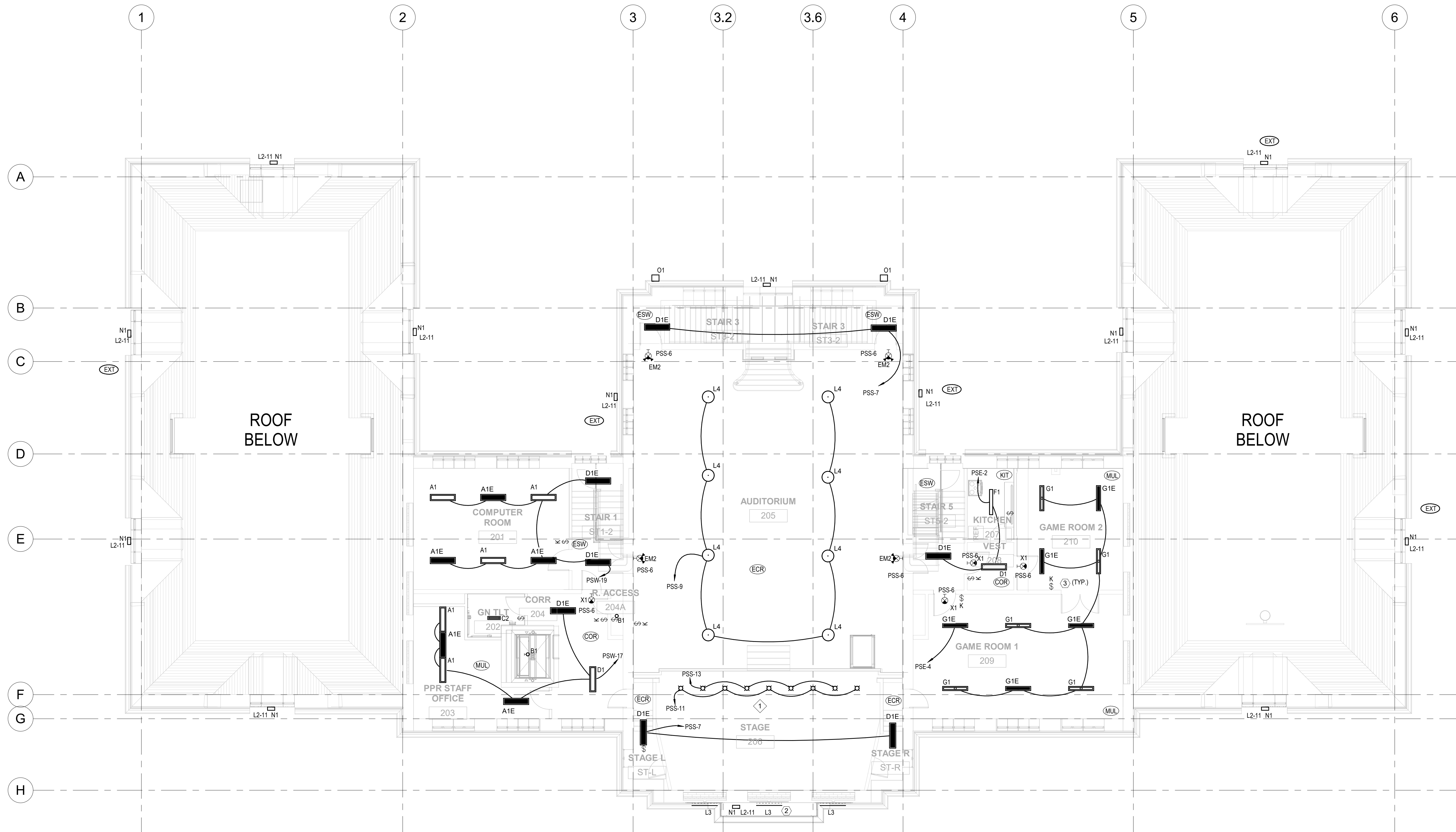


1 ELECTRICAL PROPOSED LIGHTING - ADD ALTERNATE  
 E300C-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
 NOT FOR CONSTRUCTION  
 06/02/2023







1 ELECTRICAL PROPOSED LIGHTING - REC CENTER SECOND FLOOR  
 E302-R.2 1/8" = 1'-0"

- ### GENERAL NOTES
- LIGHTING CONTROLS SHALL BE OF AUTOMATIC TYPE FOR NON-UTILITY SPACES.
  - LIGHTING CONTROLS FOR UTILITY SPACES SHALL BE NON-AUTOMATIC (TOGGLE-TYPE)
  - EMERGENCY LIGHTING SHALL BE VIA EMERGENCY BATTERY UNIT INTEGRAL TO SELECTED LIGHT FIXTURE(S), OR BY CONCEALED MINI EMERGENCY BATTERY PACKS.
  - EXIT SIGNS AND BATTERY UNITS SHALL BE CIRCUITED AHEAD OF THE LIGHTING SWITCHES.
  - MOUNT EXIT SIGNS 12" ABOVE DOORS IN THE PATH OF EGRESS.
  - WALL MOUNTED EXIT SIGNS NOT ABOVE DOORS TO BE MOUNTED 90" ABOVE FINISHED FLOOR.
  - EMERGENCY LIGHTS TO BE MOUNTED 9' ABOVE FINISHED FLOOR.

- ### NEW WORK NOTES
- PROVIDE STAGE REPLACEMENT LIGHTING WITH MODERN LED LIGHTING IN KIND, VARI LITE VL800 EVENTPAR, RGBA FIXTURES AND CONTROLS ARE THE BASIS OF DESIGN.
  - PROVIDE EXTERIOR FACADE LIGHTING AT BALCONY LEVEL.
  - FOR ALL SK, CONTRACTOR TO PROVIDE IN ADDITION TO CENTRAL LIGHTING CONTROL, A SEPARATE COST LINE ITEM TO PROVIDE A LOCAL AREA KEY CONTROLLED SWITCH.

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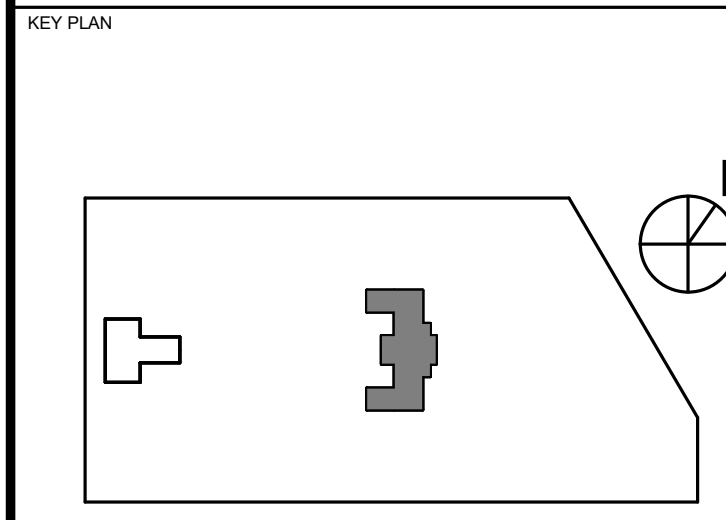
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PROJECT TITLE  
 KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2

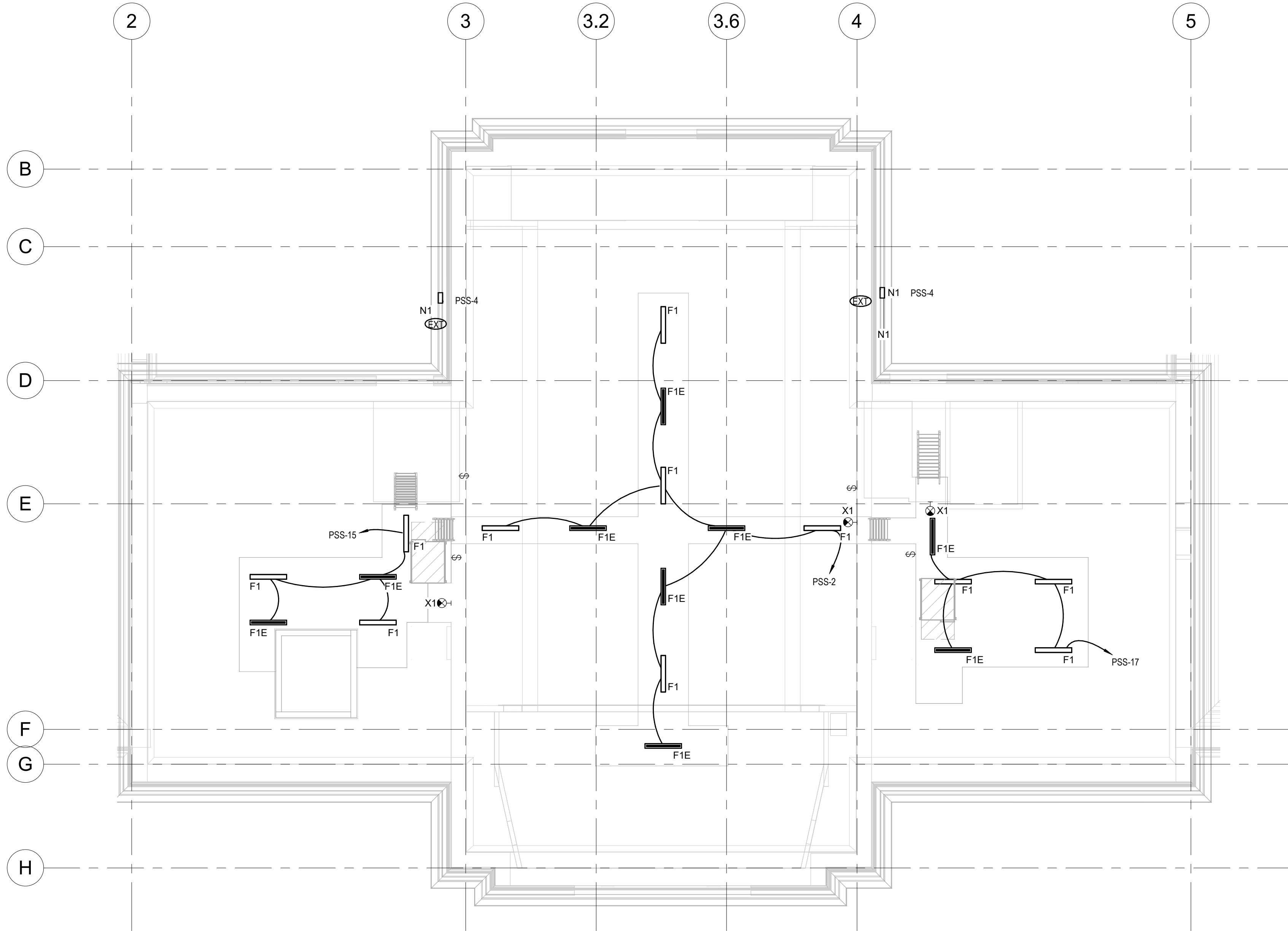


DRAWING TITLE  
 ELECTRICAL PROPOSED LIGHTING - SECOND FLOOR

PROJECT NO. KMLX21003	DRAWING NO. E302-R.2
DATE 04/21/2023	SCALE AS NOTED
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	

PACKAGE 2 - IFB  
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- GENERAL NOTES**
- LIGHTING CONTROLS SHALL BE OF AUTOMATIC TYPE FOR NON-UTILITY SPACES.
  - LIGHTING CONTROLS FOR UTILITY SPACES SHALL BE NON-AUTOMATIC (TOGGLE-TYPE)
  - EMERGENCY LIGHTING SHALL BE VIA EMERGENCY BATTERY UNIT INTEGRAL TO SELECTED LIGHT FIXTURE(S), OR BY CONCEALED MINI EMERGENCY BATTERY PACKS.
  - EXIT SIGNS AND BATTERY UNITS SHALL BE CIRCUITED AHEAD OF THE LIGHTING SWITCHES.
  - MOUNT EXIT SIGNS 12" ABOVE DOORS IN THE PATH OF EGRESS.
  - WALL MOUNTED EXIT SIGNS NOT ABOVE DOORS TO BE MOUNTED 90" ABOVE FINISHED FLOOR.
  - EMERGENCY LIGHTS TO BE MOUNTED 9' ABOVE FINISHED FLOOR.



**2 ELECTRICAL PROPOSED LIGHTING - ATTIC**  
E303-R.2 1/8" = 1'-0"

REVISIONS		
ISSUE	DATE	DESCRIPTION
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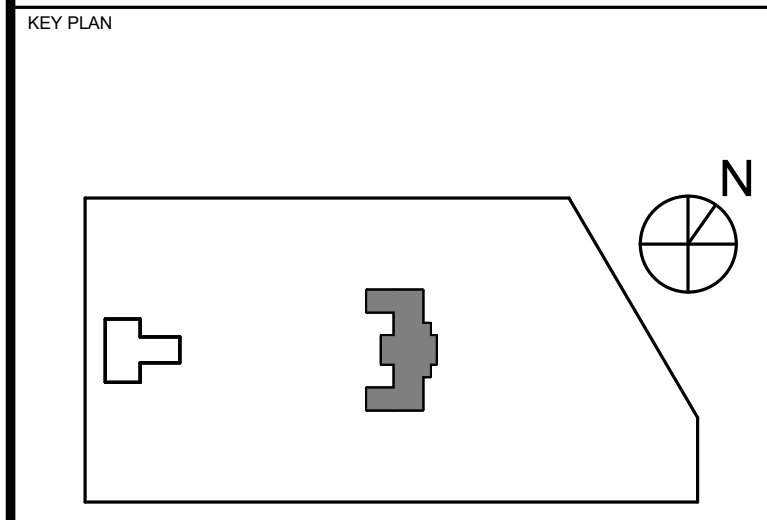
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**ELECTRICAL PROPOSED LIGHTING - ATTIC**

PROJECT NO. KMLX21003	DRAWING NO. <b>E303-R.2</b>
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: NSL	
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PACKAGE 2 - IFB  
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06/02/2023









KINGSESSING RECREATION CENTER - LIGHT FIXTURE SCHEDULE

LABEL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LUMENS	COLOR TEMP	VOLTAGE	WATTAGE	MOUNTING	COMMENTS
A1	ARCHITECTURAL EDGE LIT 1'X4' WITH EXTRUDED ALUMINUM HOUSING, CENTER RAIL AND END CAPS AND FROSTED ACRYLIC LENS.	COLUMBIA LIGHTING	VS14-35-MMHE-U-KIT-VS14 5M	3795	3500K	120	29	SURFACE	PROVIDE WITH SURFACE MOUNT KIT
A1E	SAME AS TYPE 'A1' EXCEPT WITH INTEGRAL EMERGENCY BATTERY	COLUMBIA LIGHTING	VS14-35-XXXX-U-ELL14-KIT-VS14 5M	3795	3500K	120	29	SURFACE	PROVIDE WITH SURFACE MOUNT KIT
B1	VAPORTITE LED WALL MOUNT FROSTED GLASS GLOBE WITH DIECAST ALUMINUM HOUSING AND GUARD	HUBBELL LIGHTING	VWGL-2	2722	4000K	120	20	SURFACE	
C1	4'-0" LED LINEAR WITH WHITE BAKED ENAMEL STEEL HOUSING AND...	HUBBELL LIGHTING	MPS-4-35-HL-F-W-E-U-*MPSCRK-C	5800	3500K	120	41.5	SURFACE	PROVIDE ACCESSORIES FOR...
C1E	SAME AS TYPE 'C1' EXCEPT WITH INTEGRAL EMERGENCY BATTERY	HUBBELL LIGHTING	MPS-4-35-HL-F-W-E-U-ELL14-*MPSCRK-C	5800	3500K	120	41.5	SURFACE	PROVIDE ACCESSORIES FOR...
C2	LED LINEAR WITH WHITE BAKED ENAMEL STEEL HOUSING AND...	HUBBELL LIGHTING	MPS-2-35-HL-F-W-E-U-*MPSCRK-C	3400	3500K	120	31.5	SURFACE	PROVIDE ACCESSORIES FOR...
C2E	SAME AS TYPE 'C2' EXCEPT WITH INTEGRAL EMERGENCY BATTERY	HUBBELL LIGHTING	MPS-2-35-HL-F-W-E-U-ELL14-*MPSCRK-C	3400	3500K	120	31.5	SURFACE	
D1	LED LINEAR WITH EXTRUDED ALUMINUM MATTE WHITE HOUSING AND DIE CAST ALUMINUM ENDCAPS AND SOFT DIFFUSE LENS.	HUBBELL LIGHTING	6L5-D-04-04-SOF-C1-40K-D125-1C-UNV	1600	4000K	120	13.6	SURFACE	
D1E	LED LINEAR WITH EXTRUDED ALUMINUM MATTE WHITE HOUSING AND DIE CAST ALUMINUM ENDCAPS AND SOFT DIFFUSE LENS.	HUBBELL LIGHTING	6L5-D-04-04-SOF-C1-40K-D125-1C-UNV-EF	1600	4000K	120	13.6	SURFACE	
EM1	LED EMERGENCY LIGHT WITH DUAL HEADS	DUAL LITE	EZ-2L	314	N/A	120	1.1	WALL SURFACE	PROVIDE WITH GUARD OPTION IN GYM AREAS
EM2	COMBINATION EXIT SIGN AND EMERGENCY LIGHT WITH DUAL LED HEADS	DUAL LITE	EVCHL-U-R-W-12-06L	314	N/A	120	6.5	WALL SURFACE	PROVIDE WITH WIRE GUARD OPTION IN GYM AREAS
F1	LED LINEAR LENSED STRIP LIGHT WITH HEAVY DIE-FORMED STEEL CHANNEL AND CURVED ACRYLIC FORMED DIFFUSER. CHAIN HUNG MOUNTING.	COLUMBIA LIGHTING	LCL-4-40-HL-E-U-CSHC	6494	4000K	120	42	SURFACE	PROVIDE ACCESSORIES FOR CONTINUOUS ROW MOUNTING
F1E	SAME AS TYPE 'F1' EXCEPT WITH INTEGRAL EMERGENCY BATTERY	COLUMBIA LIGHTING	LCL-4-40-HL-E-U-CSHC-ELL14	6494	4000K	120	42	SURFACE	PROVIDE ACCESSORIES FOR CONTINUOUS ROW MOUNTING
F2	LED LINEAR LENSED STRIP LIGHT WITH HEAVY DIE-FORMED STEEL CHANNEL AND CURVED ACRYLIC FORMED DIFFUSER. CHAIN HUNG MOUNTING.	COLUMBIA LIGHTING	LCL-2-40-LW-E-U-CSHC	2805	4000K	120	24	SURFACE	PROVIDE ACCESSORIES FOR CONTINUOUS ROW MOUNTING
F2E	SAME AS TYPE 'F2' EXCEPT WITH INTEGRAL EMERGENCY BATTERY	COLUMBIA LIGHTING	LCL-2-40-LW-E-U-CSHC-ELL14	2805	4000K	120	24	SURFACE	PROVIDE ACCESSORIES FOR CONTINUOUS ROW MOUNTING
G1	LED LINEAR SURFACE MOUNT WITH CURVED RIBBED ACRYLIC DIFFUSER AND DIE-FORMED TEXTURED MATTE WHITE ALUMINUM HOUSING	WILLIAMS	ASM-4-L25-8-35-5-*J-A-48-DIM-UNV	2500	3500K	120	19.5	SURFACE	PROVIDE WITH ROW ALIGNER OPTION FOR END-TO-END INSTALLATION-REFER TO DRAWINGS FOR LOCATION(S).
G1E	SAME AS TYPE 'G1' EXCEPT WITH INTEGRAL EMERGENCY BATTERY	WILLIAMS	ASM-4-XXX-8-35-5-*J-A-48-EM/10WLP	2500	3500K	120	19.5	SURFACE	PROVIDE WITH ROW ALIGNER OPTION FOR END-TO-END INSTALLATION-REFER TO DRAWINGS FOR LOCATION(S).
H1	4FT LED Narrow Wrap, 4000K, 0-10V Dimming	COLUMBIA LIGHTING	CN44-3540	3507	4000K	120	30	SURFACE	MULTI SPACE ROOM
H1E	SAME AS TYPE 'H1' EXCEPT WITH INTEGRAL EMERGENCY BATTERY	COLUMBIA LIGHTING	CN44-3540	3507	4000K	120	30	SURFACE	MULTI SPACE ROOM
K1	TBD	TBD	TBD	TBD	TBD	120	TBD	TBD	STAGE LIGHTS
L1	6" SQUARE SURFACE MOUNTED LIGHT, WHITE FINISH, 4K COLOR	NORA LIGHTING	NLOS-S62L-40-WW	1150	4000K	120	14	SURFACE	FIRST FLOOR
L2	48" SQUARE X 5" DEEP SURFACE MOUNTED FRAME LIGHT, 35K COLOR	SPI LIGHTING	AIC11896-L99W-U-3500K-H05-F800	10300	3500K	120	99	SURFACE	FIRST FLOOR
L2E	48" SQUARE X 5" DEEP SURFACE MOUNTED FRAME LIGHT, 35K COLOR WITH EMERGENCY BATTERY OPTION	SPI LIGHTING	AIC11896-L99W-U-3500K-H05-F800	10300	3500K	120	99	SURFACE	FIRST FLOOR
L3	1.5" DIAMETER X 8" LONG SURFACE MOUNTED WALL WASHER, ANODIZED FINISH	SPI LIGHTING	48" SQUARE X 5" DEEP SURFACE MOUNTED FRAME LIGHT, 35K COLOR	5700	4000K	120	56	SURFACE	SECOND FLOOR
L4	48" DIAMETER X 12" HIGH OPAL ACRYLIC DRUM PENDANT, METAL FINISHES TBD	OCL LIGHTING	L01-P1EC-48-MM-X-MOD-35K-UNV-DM1	16500	3500K	120	140	PENDANT	SECOND FLOOR MODIFIED FOR 16,500 LUMENS
M1E	LED HORIZONTAL WALL PACK WITH DIE CAST ALUMINUM ENCLOSURE AND FULL CUTOFF TEMPERED PRISMATIC GLASS LENS	WILLIAMS	VWM-H-L20-740-T3-DBZ-SDGL-PC-UNV-TPTX-25-TOOL	2834	4000K	120	27	SURFACE	MOUNTED OVER ENTRY/EXIT DOORS. MATCH EXISTING FIXTURE MOUNTING HEIGHT. PROVIDE MOUNTING...
N1	LED VERTICAL WALL PACK WITH DIE CAST ALUMINUM ENCLOSURE AND FORWARD THROW CLEAR TEMPERED GLASS LENS	WILLIAMS	VWP-L30-7-40-TFT-DBZ-CGL-120-OCWS-FSP-311-L	2844	4000K	120	36	SURFACE	EXTERIOR WALL PACKS- MATCH EXISTING FIXTURE MOUNTING HEIGHT. PROVIDE MOUNTING ACCESSORIES TO MATCH EXISTING INSTALLATION.
O	MEDIUM FLOO LIGHT WITH DIE CAST ALUMINUM HOUSING AND ACRYLIC LENS WITH EXTRA WIDE DISTRIBUTION	LSI	TMFL-LED-07L-W-UNV-40-82A-PC120	7000	4000K	120	TBD	SURFACE	ROOFTOP FLOOD LIGHTS
P1	2'-0" ROUND SURFACE MOUNT LED WITH ALUMINUM HOUSING AND FROSTED ACRYLIC LENS	WILLIAMS	RNDS-2-L25-80-40-FXA-120	2500	4000K	120	24.3	SURFACE	
P1E	2'-0" ROUND SURFACE MOUNT LED WITH ALUMINUM HOUSING AND FROSTED ACRYLIC LENS	WILLIAMS	RNDS-2-L25-80-40-FXA-120-EM/10WRM	2500	4000K	120	24.3	SURFACE	
Q1	LED HIGH BAY WITH ALUMINUM HOUSING AND CLEAR ACRYLIC DOME	COLUMBIA LIGHTING	SAV-MM-40-8-SB22-CLR-U-XXX-*WG23A	20,598	4000K	120	177	PENDANT	
R1	2"X4" LINEAR LED WITH DOWNLIGHT SPREAD OPTICS	FINELITE	HP-2-5M-D-4FT-H-835-D50-96LG-120-SC-FC-10%-C4-FE-SW	2500	3500K	120	28.3	SURFACE	
R1E	2"X4" LINEAR LED WITH DOWNLIGHT SPREAD OPTICS	FINELITE	HP-2-5M-D-4FT-H-835-D50-96LG-120-SC-FC-10%-C4-FE-SW-LGD10W	2500	3500K	120	28.3	SURFACE	
X1	SINGLE FACE EXIT SIGN	DUAL LITE	SE-S-R-W-*WGL *WIREGUARD OPTION FOR GYM AREA ONLY	N/A	N/A	120	2.6	WALL SURFACE	

LIGHTING CONTROL SEQUENCE OF OPERATIONS

**DEVICES:**

**OCC** = OCCUPANCY SENSOR TYPE - PROVIDE OCCUPANCY SENSOR(S) USING TECHNOLOGY INDICATED TO SERVE SPACE. PROVIDE TYPES AND QUANTITIES OF SENSORS AS NEEDED TO PROVIDE COVERAGE OVER A MINIMUM OF 90% OF SPACE SERVED. PROVIDE TYPES AND QUANTITIES OF POWER PACK/LOAD CONTROLLERS AS NEEDED TO CONTROL NUMBER OF ZONES AS INDICATED ON PLANS. SENSORS SHALL BE CEILING MOUNTED UNLESS SPECIFICALLY INDICATED AS WALL MOUNTED SENSORS ON PLANS.

- PIR = PASSIVE INFARED
- US = ULTRASONIC/MICROPHONIC
- DI = DUAL TECHNOLOGY (PASSIVE INFARED AND ULTRASONIC/MICROPHONIC)
- N = NO OCCUPANCY SENSOR REQUIRED

**PHOTO** = DAYLIGHT HARVESTING PHOTOCELL - PROVIDE PHOTOCELL TO ENABLE DAYLIGHT HARVESTING, WHERE LOCATION(S) OF OCCUPANCY SENSOR(S) ARE APPROPRIATE. PHOTOCELLS MAY BE INTEGRAL TO OCCUPANCY SENSOR(S).

- Y = SPACE SHALL INCLUDE PHOTOCELL(S) TO PROVIDE DAYLIGHT HARVESTING OF ZONE(S) AS INDICATED ON PLANS.
- N = NO PHOTOCELL REQUIRED

**NETWORK** = NETWORK CONNECTION TO SYSTEM HEAD-END - PROVIDE LOW VOLTAGE CABLING AS REQUIRED TO CONNECT SPACE TO SYSTEM HEAD-END, ALLOWING FOR SCHEDULED CONTROL FROM SYSTEM TIME CLOCK, REMOTE CONTROL AND MONITORING, AND REMOTE PROGRAMMING.

- Y = SPACE SHALL BE CONNECTED TO SYSTEM HEAD-END
- N = CONNECTION TO SYSTEM HEAD-END NOT REQUIRED

**UL924** = EGRESS LIGHTING WITHIN SPACE SHALL BE CONTROLLED ALONG WITH SPACE LIGHTING PER SEQUENCE OF OPERATIONS. PROVIDE UL924 RELAY PER SPECIFICATIONS FOR CODE REQUIRED OVERRIDE CONTROL OF CONTROLLED EGRESS LIGHTING, WHERE MULTIPLE LIGHTING BRANCH CIRCUITS SERVE THE SAME CONTROL ZONE, PROVIDE QUANTITY OF RELAYS AS REQUIRED TO ACCOMMODATE ZONES/CIRCUITS SERVED.

- Y = UL924 RELAY REQUIRED
- N = UL924 RELAY NOT REQUIRED (EITHER NO EGRESS LIGHTING OR EGRESS LIGHTING IS 24 HOUR)

SPACE TYPE	TAG	DEVICES					SEQUENCE OF OPERATIONS
		OCC	PHOTO	NETWORK	UL924		
CORRIDOR	COR	DT	N	Y	Y	SCHEDULE ON HOURS: LIGHTS ON FROM 6 AM TO 8 PM SCHEDULE OFF HOURS: LIGHTS OFF FROM 8PM TO 6AM AUTOMATIC ON (DURING SCHEDULE OFF HOURS): UPON OCCUPANCY DETECTION, LIGHTS ON AUTOMATIC OFF (DURING SCHEDULE OFF HOURS): 10 MINUTE DELAY, LIGHTS OFF	
DECORATIVE EXTERIOR	DEX	N	N	Y	N	SCHEDULE ON: LIGHTS TO 100% AT 15 MINUTES PRIOR TO DUSK LIGHTING SETBACK, LIGHTS TO OFF AT 9:00 PM. RETURN TO 100% AT 5:00 AM SCHEDULE OFF: LIGHTS OFF AT 15 MINUTES AFTER DAWN	
EGRESS CORRIDOR	ECR	Y	N	N	Y	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHT AT MAXIMUM LIGHT LEVEL AUTOMATIC OFF: ALL LIGHTS DIM TO MINIMUM LIGHT LEVEL 15 MINUTES AFTER OCCUPANTS EXIT WALL DEVICE: OCCUPANT TO SET DESIRED LIGHT LEVELS FOR LIGHTS. MANUAL CONTROL CANNOT FULLY SHUT OFF LIGHTS. MINIMUM OUTPUT IS SET TO 10%.	
EGRESS STAIRWELL	ESW	Y	N	N	Y	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHT AT MAXIMUM LIGHT LEVEL AUTOMATIC OFF: ALL LIGHTS DIM TO MINIMUM LIGHT LEVEL 15 MINUTES AFTER OCCUPANTS EXIT	
EXTERIOR	EXT	N	N	Y	Y	SCHEDULE ON: LIGHTS TO 100% AT 15 MINUTES PRIOR TO DUSK LIGHTING SETBACK, LIGHTS TO 50% AT 9:00 PM. RETURN TO 100% AT 5:00 AM SCHEDULE OFF: LIGHTS OFF AT 15 MINUTES AFTER DAWN	
KITCHEN	KIT	DT	Y	Y	Y	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHTS TURN ON AUTOMATIC OFF: AFTER A 15 MINUTE DELAY, LIGHTS TURN OFF WALL DEVICE: ALLOW FOR ON/OFF CONTROL AND DIMMERS TO ADJUST LIGHTING AS NEEDED.	
LOBBY/ATRIUM	LOB	DT	Y	Y	Y	SCHEDULE ON HOURS: LIGHTS ON FROM 6 AM TO 8 PM SCHEDULE OFF HOURS: LIGHTS OFF FROM 8PM TO 6AM AUTOMATIC ON (DURING SCHEDULE OFF HOURS): UPON OCCUPANCY DETECTION, LIGHTS ON AUTOMATIC OFF (DURING SCHEDULE OFF HOURS): 10 MINUTE DELAY, LIGHTS OFF	
MECHANICAL/ELECTRICAL	MEP	N	N	N	N	WALL DEVICE: ALLOW FOR ON/OFF CONTROL NO AUTOMATIC LIGHTING CONTROLS IN THIS SPACE	
MULTIPURPOSE ROOM	MUL	DT	Y	Y	Y	WALL DEVICE: ALLOW FOR ON/OFF CONTROL AND DIMMING FROM MIN TO MAX AUTOMATIC OFF: 5 MINUTE DELAY, LIGHTS OFF DAYLIGHT HARVESTING: OVERHEAD LIGHTS DIM/BRIGHTEN BASED ON DAYLIGHT AVAILABILITY THERE ARE TWO PERIMETER DAYLIGHT ZONES	
OFFICE (PRIVATE)	OFF	DT	N	N	N	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHT AT CURRENT DIMMING LEVEL WALL DEVICE: ALLOW FOR ON/OFF CONTROL AND DIMMING FROM MIN TO MAX AUTOMATIC OFF: 5 MINUTE DELAY, LIGHTS OFF	
OPEN PLAN OFFICE	OPN	DT	N	N	Y	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHTS TO 50% WALL DEVICE: ALLOW FOR LOCAL ON/OFF AND DIMMING OVERRIDE AUTOMATIC OFF: 15 MINUTE DELAY (ALL ZONES), LIGHTS OFF OPEN OFFICE: PROVIDE OCCUPANCY SENSOR COVERAGE AND SYSTEM PROGRAMMING AS NECESSARY TO MEET THE REQUIREMENTS OF IECC 2018 PART C405.2.1.3. REFER TO PLANS FOR DESIRED ZONING	
PRIVATE RESTROOM	PRT	PIR	N	N	N	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHTS ON WALL DEVICE: ALLOW FOR ON/OFF CONTROL AUTOMATIC OFF: 5 MINUTE DELAY, LIGHTS OFF	
PUBLIC RESTROOM	PUB	DT	N	N	N	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHTS ON WALL DEVICE: ALLOW FOR ON/OFF CONTROL AUTOMATIC OFF: 5 MINUTE DELAY, LIGHTS OFF	
SUPPORT / STORAGE	SUP	DT	N	N	N	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHTS ON WALL DEVICE: ALLOW FOR ON/OFF CONTROL AUTOMATIC OFF: 5 MINUTE DELAY, LIGHTS OFF	
TUB / SHOWER	TUB	DT	N	N	N	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHTS ON WALL DEVICE: ALLOW FOR ON/OFF CONTROL AUTOMATIC OFF: 20 MINUTE DELAY, LIGHTS OFF	
VESTIBULE	VST	DT	N	Y	Y	SCHEDULE ON HOURS: LIGHTS ON FROM 6AM TO 8PM SCHEDULE OFF HOURS: LIGHTS OFF FROM 8PM TO 6AM SCHEDULE DIM HOURS: LIGHTS TO 50% FROM 15 MINUTES AFTER DAWN TO 15 MINUTES BEFORE DUSK AUTOMATIC ON (DURING SCHEDULE OFF HOURS): UPON OCCUPANCY DETECTION, LIGHTS ON AUTOMATIC OFF (DURING SCHEDULE OFF HOURS): 10 MINUTE DELAY, LIGHTS OFF	
WORK	WRK	DT	N	N	N	AUTOMATIC ON: UPON OCCUPANCY DETECTION, LIGHTS ON WALL DEVICE: ALLOW FOR ON/OFF CONTROL AUTOMATIC OFF: 10 MINUTE DELAY, LIGHTS OFF	

LIGHTING CONTROL SEQUENCE OF OPERATIONS NOTES

- THE ABOVE IS BASED ON OPERATING HOURS OF 6 AM TO 8 PM. COORDINATE EXACT BUSINESS HOURS AND ASSOCIATED CONTROL SCHEDULES WITH OWNER.
- THE ABOVE IS BASED ON THE 2018 IECC.

REVISIONS

ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

SEAL



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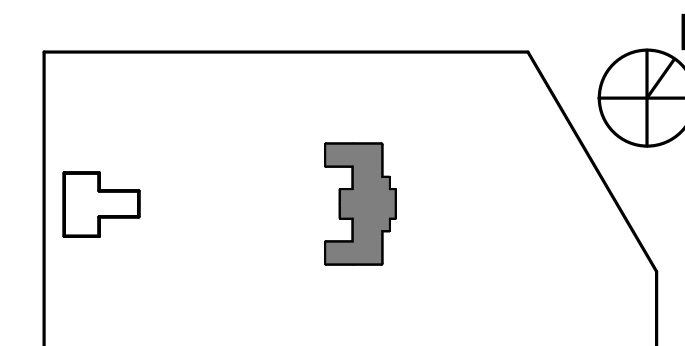
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**CITY OF PHILADELPHIA**  
**REBUILD / PHILADELPHIA PARKS AND RECREATION**  
1515 ARCH STREET  
5TH FLOOR, ONE PARKWAY BUILDING

PHILADELPHIA PENNSYLVANIA

**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

KEY PLAN



DRAWING TITLE  
**ELECTRICAL SCHEDULES**

PROJECT NO. KLMLX21003	DRAWING NO. <b>E500-R.2</b>
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: JR

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



Panelboard: PANEL PBW														
Location: VESTIBULE 001 Supply: MDP Mounting: FLUSH Enclosure: NEMA 1			Voltage: 208 V, 3Ø, 4W Bus Rating: 150 A Neutral: 100% Feed-Thru Lugs: Features & Modifications: -			Mains Type: MLO Mains Rating: 150 A Mains FN/Note: - SCCR: 18 kA								
Ckt	Description	Wire Size	Trip (A)	Poles	FN/Note	Phase A Load (VA)	Phase B Load (VA)	Phase C Load (VA)	FN/Note	Poles	Trip (A)	Wire Size	Description	Ckt
PBW-1	RECS: VEST 001	1-#12, 1-#12, 1-#12	20	1		1260	1080			1	20	1-#12, 1-#12, 1-#12	RECS: TEL COM 006	PBW-2
PBW-3	RECS: M TLT RM LL	1-#12, 1-#12, 1-#12	20	1			1620	900		1	20	1-#12, 1-#12, 1-#12	RECS: W TLT 010	PBW-4
PBW-5	RECS: MULTI SP 009	1-#12, 1-#12, 1-#12	20	1				1980	1440	1	20	1-#12, 1-#12, 1-#12	RECS: STORAGE 019	PBW-6
PBW-7	SP-1	1-#12, 1-#12, 1-#12	20	1		1200	75						AC-35	PBW-8
PBW-9	RP-1	1-#12, 1-#12, 1-#12	20	1			700	75		2	15	2-#12, 1-#12, 1-#14		PBW-10
PBW-11	WH-1	1-#12, 1-#12, 1-#12	20	1				700	365				FCU-3	PBW-12
PBW-13	AV 006 EQUIPMENT RACK	1-#12, 1-#12, 1-#12	20	1		360	365			2	15	2-#12, 1-#12, 1-#14		PBW-14
PBW-15	AV 006 EQUIPMENT RACK	1-#12, 1-#12, 1-#12	20	1			180	365					FCU-4	PBW-16
PBW-17	LIGHTS: STOR 015, VEST 016, STOR 019 LL	1-#12, 1-#12, 1-#12	20	1				136	365	2	15	2-#12, 1-#12, 1-#14		PBW-18
PBW-19	LIGHTING - INTERIOR	1-#12, 1-#12, 1-#12	20	1		119	146			1	20	1-#12, 1-#12, 1-#12	LIGHTS: MULTI SPACE 003	PBW-20
PBW-21	SBMS-1	1-#12, 1-#12, 1-#12	20	1			360	205		1	20	1-#12, 1-#12, 1-#12	LIGHTS: CLASSROOM 034	PBW-22
PBW-23	SBMS-2	1-#12, 1-#12, 1-#12	20	1				360	360	1	20	1-#12, 1-#12, 1-#12	HW 022024	PBW-24
PBW-25	SBMS-3	1-#12, 1-#12, 1-#12	20	1		360								PBW-26
PBW-27	SBMS-4	1-#12, 1-#12, 1-#12	20	1			360	150					BS-3	PBW-28
PBW-29	POWER	1-#12, 1-#12, 1-#12	20	1				0	150	2	15	2-#12, 1-#12, 1-#14		PBW-30
PBW-31	Other	1-#12, 1-#12, 1-#12	20	1		180	150			2	15	2-#12, 1-#12, 1-#14	BS-1	PBW-32
PBW-33	AC-36	2-#12, 1-#12, 1-#14	15	2			75	150						PBW-34
PBW-35								75	150	2	15	2-#12, 1-#12, 1-#14	BS-7	PBW-36
PBW-37	AC-34	2-#12, 1-#12, 1-#14	15	2		75		2110						PBW-38
PBW-39							75	2110		2	20	2-#12, 1-#12, 1-#12	PTAC	PBW-40
PBW-41	LIGHTS: CORR 018, 014, VEST 007	1-#12, 1-#12, 1-#12	20	1				187	2110	2	20	2-#12, 1-#12, 1-#12		PBW-42
<b>Connected Load:</b>						6 kVA	7 kVA	8 kVA	(Includes load connected via feed-thru lugs.)					
<b>Connected Current:</b>						46 A	53 A	72 A						
Load Classification														
Motor	2.08 kVA		114%		2.38 kVA		<b>Panel Totals</b>							
Other	6.17 kVA		100%		6.17 kVA		<b>Connected Load:</b> 21 kVA							
Lighting - Interior	0.794 kVA		125%		0.992 kVA		<b>Connected Current:</b> 59 A							
Receptacle - General	6.48 kVA		100%		6.48 kVA		<b>Demand Load:</b> 22 kVA							
Receptacle - Dedicated	0.54 kVA		100%		0.54 kVA		<b>Demand Current:</b> 61 A							
Electric Water Heating	0.7 kVA		125%		0.875 kVA									
HVAC	2.66 kVA		100%		2.66 kVA									
<b>Notes:</b>														

Panelboard: PANEL PBE														
Location: MDP Supply: MDP Mounting: Surface Enclosure: NEMA 1			Voltage: 208 V, 3Ø, 4W Bus Rating: 150 A Neutral: 100% Feed-Thru Lugs: Features & Modifications: -			Mains Type: MLO Mains Rating: 150 A Mains FN/Note: - SCCR: 18 kA								
Ckt	Description	Wire Size	Trip (A)	Poles	FN/Note	Phase A Load (VA)	Phase B Load (VA)	Phase C Load (VA)	FN/Note	Poles	Trip (A)	Wire Size	Description	Ckt
PBE-1	EMERGENCY LTS 3RD FL	1-#12, 1-#12, 1-#12	20	1		1	119			1	20	1-#12, 1-#12, 1-#12	LTS MULTI SPACE 034	PBE-2
PBE-3	LIGHTING - INTERIOR	1-#12, 1-#12, 1-#12	20	1			102	464		1	20	1-#12, 1-#12, 1-#12	LTS EXERCISE RM 032	PBE-4
PBE-5	LIGHTING - INTERIOR	1-#12, 1-#12, 1-#12	20	1				119	165	1	20	1-#12, 1-#12, 1-#12	LIGHTS: RMS 012, 013, 010, 011, STILL	PBE-6
PBE-7	AV 206 EQUIPMENT RACK	1-#12, 1-#12, 1-#12	20	1		180	205			1	20	1-#12, 1-#12, 1-#12	LTS STORAGE 020	PBE-8
PBE-9	LIGHTS: EXERCISE RM 032	1-#12, 1-#12, 1-#12	20	1			549	1080		1	20	1-#12, 1-#12, 1-#12	RECS: STORAGE 037, 036 LL	PBE-10
PBE-11	LIGHTS: DOJU 017 LL	1-#12, 1-#12, 1-#12	20	1				633	1260	1	20	1-#12, 1-#12, 1-#12	RECS: EXERCISE RM 031, LL	PBE-12
PBE-13	LTS TELECOM	1-#12, 1-#12, 1-#12	20	1		209	360			1	20	1-#12, 1-#12, 1-#12	AV 206 EQUIPMENT RACK	PBE-14
PBE-15	RECS: DOJU	1-#12, 1-#12, 1-#12	20	1			1440							PBE-16
PBE-17	RECS: EXERCISE RM 032 LL	1-#12, 1-#12, 1-#12	20	1				1440						PBE-18
PBE-19	RECS: CORR 025 & 033	1-#12, 1-#12, 1-#12	20	1		1080	1440			1	20	1-#12, 1-#12, 1-#12	RECS: CLASSROOM 034 LL	PBE-20
PBE-21							937	937						PBE-22
PBE-23	ERU-1	3-#12, 1-#12, 1-#12	20	3				937	937	3	20	3-#12, 1-#12, 1-#12	ERU-2	PBE-24
PBE-25						937	937							PBE-26
PBE-27														PBE-28
PBE-29														PBE-30
PBE-31														PBE-32
PBE-33														PBE-34
PBE-35														PBE-36
PBE-37														PBE-38
PBE-39														PBE-40
PBE-41														PBE-42
<b>Connected Load:</b>						5 kVA	6 kVA	5 kVA	(Includes load connected via feed-thru lugs.)					
<b>Connected Current:</b>						46 A	46 A	46 A						
Load Classification														
Motor	5.62 kVA		113%		6.323 kVA		<b>Panel Totals</b>							
Lighting - Interior	2.967 kVA		125%		3.209 kVA		<b>Connected Load:</b> 16 kVA							
Receptacle - General	7.74 kVA		100%		7.74 kVA		<b>Connected Current:</b> 46 A							
Receptacle - Dedicated	0.54 kVA		100%		0.54 kVA		<b>Demand Load:</b> 18 kVA							
							<b>Demand Current:</b> 49 A							
<b>Notes:</b>														

Panelboard: PANEL PFW														
Location: VESTIBULE 107 Supply: MDP Mounting: Surface Enclosure: NEMA 1			Voltage: 208 V, 3Ø, 4W Bus Rating: 150 A Neutral: 100% Feed-Thru Lugs: Features & Modifications: -			Mains Type: MLO Mains Rating: 150 A Mains FN/Note: - SCCR: 18 kA								
Ckt	Description	Wire Size	Trip (A)	Poles	FN/Note	Phase A Load (VA)	Phase B Load (VA)	Phase C Load (VA)	FN/Note	Poles	Trip (A)	Wire Size	Description	Ckt
PFW-1	LIGHTING - INTERIOR	1-#12, 1-#12, 1-#12	20	1		51	162			1	20	1-#12, 1-#12, 1-#12	LIGHTING	PFW-2
PFW-3							490			1	20	1-#12, 1-#12, 1-#12	EF-2	PFW-4
PFW-5	LIGHTING - INTERIOR	1-#12, 1-#12, 1-#12	20	1				153						PFW-6
PFW-7	RECEPTACLE	1-#12, 1-#12, 1-#12	20	1		180	180			1	20	1-#12, 1-#12, 1-#12	LIGHTING - INTERIOR	PFW-8
PFW-9	HW 010/013	1-#12, 1-#12, 1-#12	20	1			360	1440		1	20	1-#12, 1-#12, 1-#12	RECS: OFFICES 106, 112 1ST FLR	PFW-10
PFW-11	EF-1	1-#12, 1-#12, 1-#12	20	1				400	490	1	20	1-#12, 1-#12, 1-#12	EF-3	PFW-12
PFW-13	Other	1-#12, 1-#12, 1-#12	20	1		250	75							PFW-14
PFW-15							75			2	20	2-#12, 1-#12, 1-#12	AC-38	PFW-16
PFW-17	LIGHTING - INTERIOR	1-#12, 1-#12, 1-#12	20	1				1056						PFW-18
PFW-19	HD 103/116	1-#12, 1-#12, 1-#12	20	1		360	1560			2	20	2-#12, 1-#12, 1-#12	CU-12	PFW-20
PFW-21	BS-5	2-#12, 1-#12, 1-#14	15	2			150	1560						PFW-22
PFW-23							150	1440		1	20	1-#12, 1-#12, 1-#12	RECS: OFFICES 108, 110 1ST FLR	PFW-24
PFW-25	RECS: BOXING 101 1ST FLR	1-#12, 1-#12, 1-#12	20	1		1440	0							PFW-26
PFW-27								0		3	20	3-#12, 1-#12, 1-#12	ELEVATOR	PFW-28
PFW-29								0						PFW-30
PFW-31						383								PFW-32
PFW-33							667	383		3	20	3-#12, 1-#12, 1-#12	DOAS-1	PFW-34
PFW-35	P1	3-#12, 1-#12, 1-#12	20	3				667	383					PFW-36
PFW-37						667	667							PFW-38
PFW-39							667			3	20	3-#12, 1-#12, 1-#12	P2	PFW-40
PFW-41								667						PFW-42
PFW-43														PFW-44
PFW-45														PFW-46
PFW-47														PFW-48
<b>Connected Load:</b>						6 kVA	6 kVA	5 kVA	(Includes load connected via feed-thru lugs.)					
<b>Connected Current:</b>						50 A	49 A	45 A						
Load Classification														
Motor	5.73 kVA		109%		6.23 kVA		<b>Panel Totals</b>							
Other	0.94 kVA		100%		0.94 kVA		<b>Connected Load:</b> 17 kVA							
Lighting - Interior	1.44 kVA		125%		1.8 kVA		<b>Connected Current:</b> 48 A							
Receptacle - General	0.18 kVA		100%		0.18 kVA		<b>Demand Load:</b> 19 kVA							
Receptacle - Dedicated	4.4 kVA		100%		4.4 kVA		<b>Demand Current:</b> 50 A							
<b>Notes:</b>														

Panelboard: PANEL PFE														
Location: ARTS&CRAFTS 119 Supply: MDP Mounting: Surface Enclosure: NEMA 1			Voltage: 208 V, 3Ø, 4W Bus Rating: 150 A Neutral: 100% Feed-Thru Lugs: Features & Modifications: -			Mains Type: MLO Mains Rating: 150 A Mains FN/Note: - SCCR: 18 kA								
Ckt	Description	Wire Size	Trip (A)	Poles	FN/Note	Phase A Load (VA)	Phase B Load (VA)	Phase C Load (VA)	FN/Note	Poles	Trip (A)	Wire Size	Description	Ckt
PFE-1	Lighting - Interior	1-#12, 1-#12, 1-#12	20	1		17								PFE-2
PFE-3	LTS ART N CRAFT	1-#12, 1-#12, 1-#12	20	1			153	192		1	20	1-#12, 1-#12, 1-#12	LIGHTING - INTERIOR	PFE-4
PFE-5	RECS: BATHROOMS 103, 116 1ST FLR	1-#12, 1-#12, 1-#12	20	1				720	214	1	20	1-#12, 1-#12, 1-#12	LTS VEST 117	PFE-6
PFE-7	LIGHTING - INTERIOR	1-#12, 1-#12, 1-#12	20	1		1056	180			1	20	1-#12, 1-#12, 1-#12	RECEPTACLE	PFE-8
PFE-9	RECS: RMS 115, 119 1ST FLR	1-#12, 1-#12, 1-#12	20	1			1080	1440		1	20	1-#12, 1-#12, 1-#12	RECS: GYMNASIUM 121 1ST FLR	PFE-10
PFE-11	UH-1	1-#12, 1-#12, 1-#12	20	1				250						PFE-12
PFE-13	FCU-1	2-#12, 1-#12, 1-#12	20	2		1500	180			1	20	1-#12, 1-#12, 1-#12	ELC-2	PFE-14
PFE-15							1500	180		1	20	1-#12, 1-#12, 1-#12	RECS: COUNTER ARTS AND CRATFS RM	PFE-16
PFE-17	RECS: MAIN HALL 1ST FLR	1-#12, 1-#12, 1-#12	20	1				1440	75	2	20	2-#12, 1-#12, 1-#12	AC-37	PFE-18
PFE-19	ART 119 REFRIGERATOR	1-#12, 1-#12, 1-#12	20	1		180	75							









## GENERAL SYMBOLS

	POINT OF CONNECTION (NEW TO EXISTING)
	EXTENT OF DEMOLITION
	POINT OF CONNECTION TO EQUIPMENT SUPPLIED BY CONTRACTOR
	CENTERLINE
	DIAMETER
	BREAK LINE (SINGLE LINE)
	EQUIPMENT TAG - SEE EQUIPMENT DATA SHEET: EQ# = EQUIPMENT ABBREVIATION # = EQUIPMENT NUMBER
	DETAIL BUBBLE: 1# = DENOTES DETAIL NUMBER # = DENOTES DRAWING NUMBER OF DETAIL LOCATION
	SECTION CUT ARROW: A = DENOTES SECTION IDENTIFICATION # = DENOTES DRAWING NUMBER OF SECTION DETAIL
	DRAINAGE RISER IDENTIFIER: S&V = WASTE STACK X = NUMBER
	SUPPLY PIPING RISER OR ROOM IDENTIFIER: CW = SERVICE TYPE X = NUMBER

## LINE STYLES

	SANITARY PIPING
	VENT PIPING
	RAIN WATER CONDUCTOR
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	NATURAL GAS PIPING
	PUMP DISCHARGE PIPING
	INDIRECT WASTE PIPING
	MEDICAL AIR PIPING
	MEDICAL VACUUM PIPING
	MEDICAL OXYGEN PIPING

## PLUMBING SYMBOLS

	SHUT-OFF VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	VACUUM RELIEF VALVE
	BALANCING VALVE
	T&P RELIEF VALVE (ANGLE VALVE)
	MIXING VALVE
	CHECK VALVE
	UNION
	GAS COCK
	BACKFLOW PREVENTER
	WATER HAMMER ARRESTOR
	CAPPED END
	FLOOR CLEANOUT
	FLOOR DRAIN
	ROOF DRAIN
	WALL & BELOW FLOOR CLEANOUT
	PIPE DROP AND RISE
	PIPE UP AND DOWN
	PRESSURE GAUGE
	THERMOMETER
	RECIRCULATING PUMP
	WALL HYDRANT
	HOSE BIBB
	WATER METER
	GAS METER

## PLUMBING ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
ABV	ABOVE
BFF	BACKFLOW PREVENTER
BFLD	BELOW FINISHED FLOOR
BLDG	BUILDING
BLV	BELOW
BWV	BACKWATER VALVE
CLG	CUBIC FEET PER HOUR
CEILING	CEILING
CONN	CONNECTION
CONT	CONTINUATION
CW	COLD WATER
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
EA	EACH
EL	ELEVATION
EQ	EQUAL
EW	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXISTING
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FL	FLOOR
FLW	FILTERED WATER
G	GAS
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
GCO	GRADE CLEANOUT
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
INV	INVERT
INDIRECT WASTE	INDIRECT WASTE
IE	INVERT ELEVATION
LAV	LAVATORY
LDR	LEADER
MAX	MAXIMUM
MGAP	MEDICAL GAS ALARM PANEL
MGZV	MEDICAL GAS ZONE VALVE BOX
MIN	MINIMUM
MR	MOP RECEPTOR
MOP	MOP SINK
MV	MIXING VALVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OFD	OVER FLOW ROOF DRAIN
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
REC	RECOVERY
RPVZ	REDUCED PRESSURE ZONE VALVE
(R)	REMOVE
(RE)	RELOCATE EXISTING
RWC	RAIN WATER CONDUCTOR
S	SANITARY
SH	SHOWER
SK	SINK
SLUMP	SUMP
SS	SOIL STACK
SSK	SERVICE SINK
ST	STORM WATER
SW	SOFT WATER
TP	TRAP PRIMER
TW	TEMPERED WATER
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
VS	VENT STACK
W	WASTE
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WFL	WATER SUPPLY FIXTURE UNITS
WH	WALL HYDRANT
WS	WASTE STACK

## PLUMBING GENERAL NOTES

PLUMBING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THIS DRAWING ARE TYPICAL. PLUMBING DRAWINGS MAY NOT INDICATE ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.

### SAFETY REQUIREMENTS

- THE PLUMBING CONTRACTOR SHALL ABIDE AND ENFORCE ALL SAFETY RULES AND REGULATIONS SET FORTH BY THE OWNER. ALL WORKERS AND SUPERVISORS MUST ATTAIN SAFETY TRAINING CLASSES (IF APPLICABLE). THE CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL VERBAL INSTRUCTIONS GIVEN BY OWNERS REPRESENTATIVES.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WARNING SIGNS, RIGGING, HANDLING AND PROTECTION OF MATERIAL. ALL EQUIPMENT MATERIALS SHALL BE NEW AND WITHOUT BLEMISHES OR DEFECTS. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF THE APPROVING AGENCY.

### GENERAL REQUIREMENTS

- SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THIS DRAWING ARE TYPICAL. DRAWINGS MAY NOT INDICATE ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.
- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS.
- THE TERM "PROVIDE" MEANS "FURNISH AND INSTALL".
- ABIDE AND ENFORCE ALL SAFETY RULES AND REGULATIONS SET FORTH BY THE OWNER. ALL WORKERS AND SUPERVISORS MUST ATTAIN SAFETY TRAINING CLASSES (IF APPLICABLE). BE RESPONSIBLE TO FOLLOW ALL VERBAL INSTRUCTIONS GIVEN BY OWNERS REPRESENTATIVES.
- THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED HIMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND TO COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL. THE SAME AS IS SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
- VISIT THE SITE AND ADJOINING AREAS AND EXAMINE THE EXISTING CONDITIONS TO BECOME FAMILIAR WITH THEM AND TO DETERMINE THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT. THIS CONTRACTOR SHALL FURNISH THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS TO THE BEST AVAILABLE STANDARDS AT THE SCALE INDICATED.
- LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH ENGINEER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
- SCHEDULE WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT THE OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORKING SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH THE OWNER AND ALL OTHER CONTRACTORS.
- SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
- BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.
- WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATINGS OF THE PENETRATED WALL OR FLOOR.
- BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO HIS WORK. SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.
- ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
- RESTORE EXISTING SYSTEMS, DEVICES, FINISHED, ETC. DAMAGED OR ALTERED BY WORK TO ACCEPTABLE CONDITIONS AS DETERMINED BY THE OWNER, ARCHITECT, AND/OR ENGINEER. EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED BUT ARE TO REMAIN IN USE SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO PROPER OPERATION.
- SUBMIT A SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT FOUR (4) SETS OF COMPLETE SHOP DRAWINGS AND CATALOGS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. CONTRACTOR SHALL SUBMIT FOUR (4) PRINTS OF ALL PIPING AND DUCTWORK FIELD INSTALLATION DRAWINGS FOR EACH SYSTEM TO BE INSTALLED. ENGINEER SHALL RETAIN TWO (2) COPIES FOR RECORD AND RETURN TWO (2) COPIES TO CONTRACTOR (VA CONTRACTUAL REQUIREMENTS). ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF ENGINEER APPROVED SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. CHECK AND VERIFY ALL FIELD MEASUREMENTS.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE ENGINEER WITH ONE (1) COMPLETE SET OF AS-BUILT DRAWINGS IN ELECTRONIC AUTOCAD SOFTWARE FORMAT AT CONTRACTOR'S EXPENSE AND THREE (3) COMPLETE BOUND COPIES OF OPERATION AND MAINTENANCE MANUALS. THESE SHALL BE PROVIDED TO THE OWNER AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL WITH REGARD TO THE PROPER OPERATION OF ALL SYSTEMS TO THE SATISFACTION OF THE OWNER.
- NOTIFY ENGINEER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE ENGINEER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
- OBTAIN THE SERVICES OF AN INDEPENDENT ABCR OR NEBB CERTIFIED BALANCING CONTRACTOR TO ADJUST EQUIPMENT TO ACHIEVE DESIGN AIR AND WATER FLOWS. ALL REQUIRED MEASURED PARAMETERS SHALL BE PRESENTED IN THE BALANCING REPORTS IN ORDER TO PROPERLY EVALUATE THE PERFORMANCE AND CAPACITY AT THE EQUIPMENT. BELTS AND SHEAVES SHALL BE REPLACED AS REQUIRED.
- SUBMIT COPIES OF THE AIR BALANCE REPORT TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, TWO COPIES SHALL BE TURNED OVER TO THE OWNER AND ONE COPY SHALL BE SUBMITTED TO THE TOWNSHIP INSPECTOR AT OR PRIOR TO FINAL INSPECTION.
- UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED, ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION. ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIATED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
- PREPARE FULLY DIMENSIONED FIELD SHEET METAL AND PIPING INSTALLATION DRAWINGS (MIN. 1/4"=1'-0" SCALE). THESE DRAWINGS SHALL BE FORWARDED TO ALL CONTRACTORS. EACH CONTRACTOR SHALL SUBSEQUENTLY IN SUCCESSION DELINEATE HIS RESPECTIVE WORK ON THESE COORDINATION DRAWINGS. WHEN ALL WORK HAS BEEN PROPERLY SHOWN ON THE COORDINATION DRAWINGS, AND ALL CONTRACTORS AGREE THAT THEIR RESPECTIVE WORK CAN BE INSTALLED AND WILL PROPERLY FIT TOGETHER, THEY SHALL SO ACKNOWLEDGE BY ENDORSING THE DRAWINGS). ANY WORK DONE PRIOR TO COMPLETION OF ABOVE COORDINATION PROCESS FOUND IN CONFLICT SHALL BE REMOVED AND REPLACED AT THE RESPECTIVE CONTRACTOR'S EXPENSE.
- INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE ENGINEER, ARCHITECT, OR THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT HIS EXPENSE.
- UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN ENGINEER FINAL PUNCH LIST, SUBMIT TO THE ENGINEER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB AND WALL OPENINGS, BEAM PENETRATIONS AND CORING DRILLING AS IT RELATES TO HIS WORK. PLUMBING CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ALL SLAB AND WALL OPENINGS AND BEAM PENETRATIONS, AND COR DRILLING TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
- EFFECTIVELY PROTECT ALL MATERIAL AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO OWNER.
- REFERENCED MANUFACTURERS DENOTES A MINIMUM ACCEPTABLE LEVEL OF QUALITY AND IS NOT INTENDED TO PREVENT SUBMISSION OF EQUIVALENT EQUIPMENT.
- ALL WORK BEING INSTALLED IN AIR PLENUM SPACES MUST BE INSTALLED WITH PLENUM RATED MATERIAL. ANY EXISTING NON-PLENUM RATED PLUMBING PIPE LOCATED WITHIN THESE PLENUM RATED AREAS SHALL BE WRAPPED WITH A PLENUM RATED PIPE WRAPPING MATERIAL.

### PROJECT COORDINATION

- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING ALL WORK WITH ALL TRADES.
- COORDINATE THE INSTALLATION OF ALL WORK WITH THE LOCAL UTILITIES AND OTHER BUILDING TRADES. THE CONTRACTOR SHALL INFORM THE OWNER IN WRITING WHEN HE INTENDS TO SCHEDULE WORK WHICH INVOLVES EXISTING SYSTEMS AND/OR UTILITIES. NOTICE SHALL BE GIVEN ONE WEEK PRIOR TO THE ANTICIPATED WORK. THE CONTRACTOR MUST RECEIVE APPROVAL FROM THE OWNER PRIOR TO PERFORMING SUCH WORK.
- PLUMBING WORK SHALL BE DONE AT SUCH A TIME AND MANNER THAT WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATIONS OF THE SITE AND/OR BUILDING ACTIVITIES. PROVISIONS SHALL BE MADE TO PERMIT THE USE OF ALL EXISTING PIPING SYSTEMS AT ALL TIMES. PROVIDE TEMPORARY FACILITIES TO SECURE THESE CONDITIONS AND REMOVE SUCH TEMPORARY FACILITIES WHEN NO LONGER REQUIRED.
- COORDINATE PLUMBING SYSTEM SHUT DOWN REQUIREMENTS WITH OWNER.
- WHERE SHUTDOWN PERIODS CANNOT BE OF A DURATION TO ACCOMMODATE THE NEW WORK, THE CONTRACTOR SHALL PERFORM THE WORK IN A SERIES OF PRE-PLANNED STAGES OF MINIMAL ALLOWABLE SHUTDOWN PERIODS. PROVIDE TEMPORARY FACILITIES TO ALLOW REUSE OF SERVICES BETWEEN WORKING STAGES.
- THE CONTRACTOR SHALL FURNISH A SCHEDULE INDICATING HIS PORTION OF TIME, WITHIN OVERALL SCHEDULE, REQUIRED TO COMPLETE THE WORK IN CONJUNCTION WITH ALL TRADES.
- DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL COORDINATE WITH BUILDING REPRESENTATIVES THE TEMPORARY SHUTDOWN OR CAPPING OF ANY PLUMBING SYSTEMS.
- CONTRACTOR SHALL PROVIDE THE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION OWNER FURNISHED ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB AND WALL OPENINGS, BEAM PENETRATIONS AND CORING DRILLING AS IT RELATES TO HIS WORK. PLUMBING CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

### GENERAL COMPLIANCE - PA

- ALL PLUMBING MATERIAL, FIXTURES AND EQUIPMENT SHALL BE LISTED BY THE FOLLOWING APPLICABLE STANDARDS:
  - 2016 PHILADELPHIA PLUMBING CODE
  - 2018 INTERNATIONAL FUEL GAS CODE
  - 2018 INTERNATIONAL BUILDING CODE
  - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
  - AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
  - AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM)
  - AMERICAN WATER WORKS ASSOCIATION (AWWA)
  - CAST IRON SOIL PIPE (CISPI)
  - MANUFACTURING STANDARDIZATION SOCIETY (MSS)
  - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
  - NATIONAL SANITATION FOUNDATION (NSF)
  - UNDERWRITERS LABORATORIES (UL)

### PROTECTION OF WORK

- EFFECTIVELY PROTECT ALL MATERIAL AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO OWNER.

## REVISIONS

ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

SEAL:



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www.saltdesignstudio.com

**M.E.P./F.P./SITE CIVIL ENGINEERS:**  
Pennoni Associates  
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Philadelphia PA 19103  
www.pennoni.com

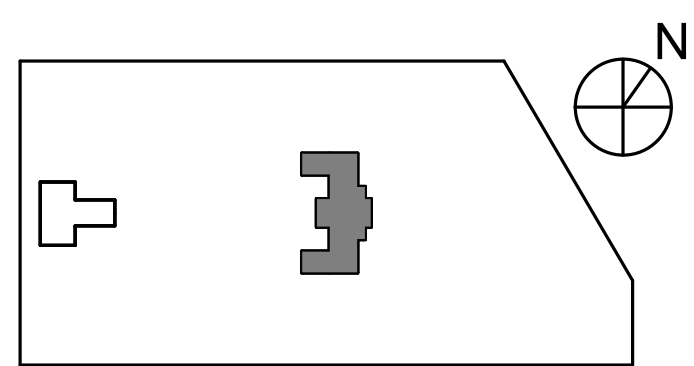
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REBUILD / PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
5TH FLOOR, ONE PARKWAY BUILDING

PHILADELPHIA PENNSYLVANIA

PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

KEY PLAN



DRAWING TITLE  
**PLUMBING INDEX SHEET**

PROJECT NO. KMLX21003	DRAWING NO. <b>P001-R.2</b>
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHG
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE WRITTEN BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023



REVISIONS

ISSUE	DATE	DESCRIPTION
06/02/23	ISSUE FOR BID	



REVIEWED BY:

PROJECT COORDINATOR:

SEAL:



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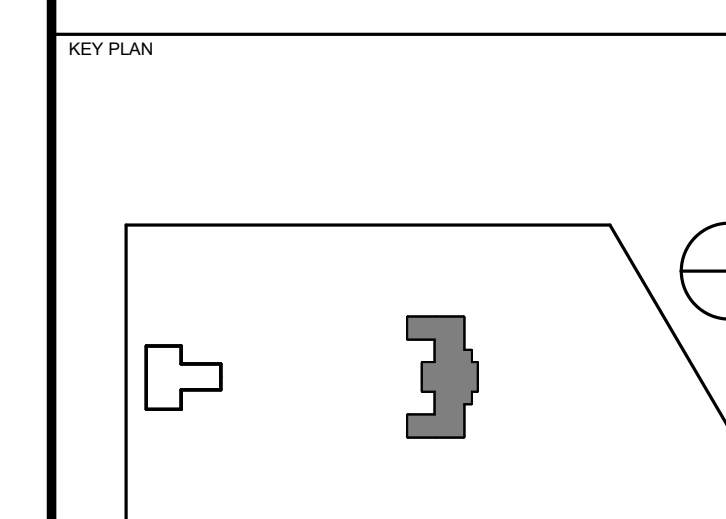
**LANDSCAPE ARCHITECT:**  
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**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



**DRAWING TITLE**  
PLUMBING DEMOLITION - LOWER LEVEL BASE SCOPE

**PROJECT NO.** KLMLX21003  
**DATE** 04/21/2023  
**SCALE** AS NOTED  
**DRAWN BY:** LJP  
**CHECKED BY:** RHC

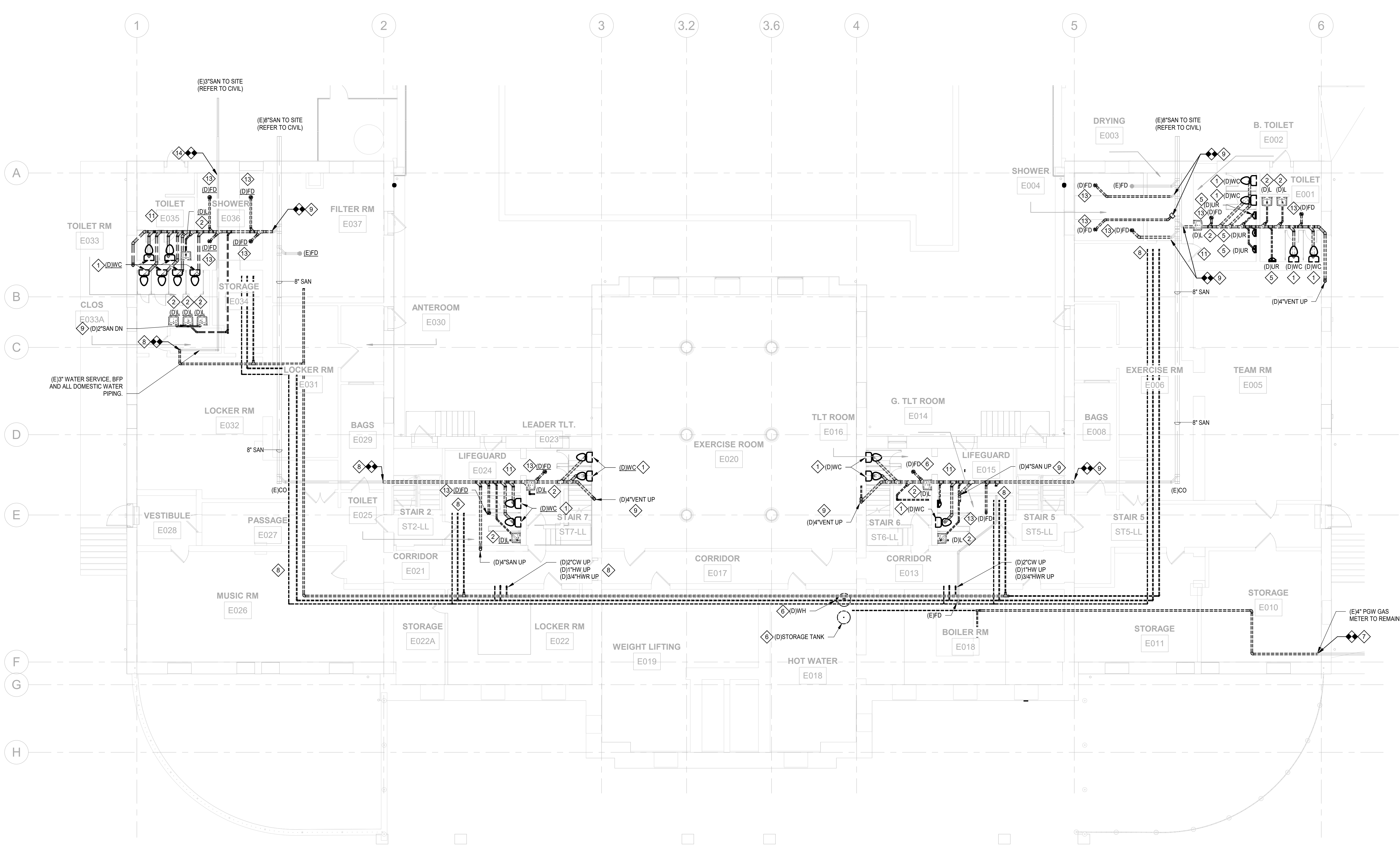
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- COORDINATE ELECTRICAL INSTALLATION WITH ELECTRICAL DESIGN DRAWINGS.
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- ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
- PROVIDE SURESEAL #97042 OR EQUAL TRAP PRIMER FOR FLOOR DRAINS.
- ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
- ALL PIPING IS CONSIDERED TO BE NEW UNLESS OTHERWISE IDENTIFIED AS EXISTING TO REMAIN OR TO BE DEMOLISHED.

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1 PLUMBING DEMOLITION - REC CENTER LOWER LEVEL BASE SCOPE  
1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

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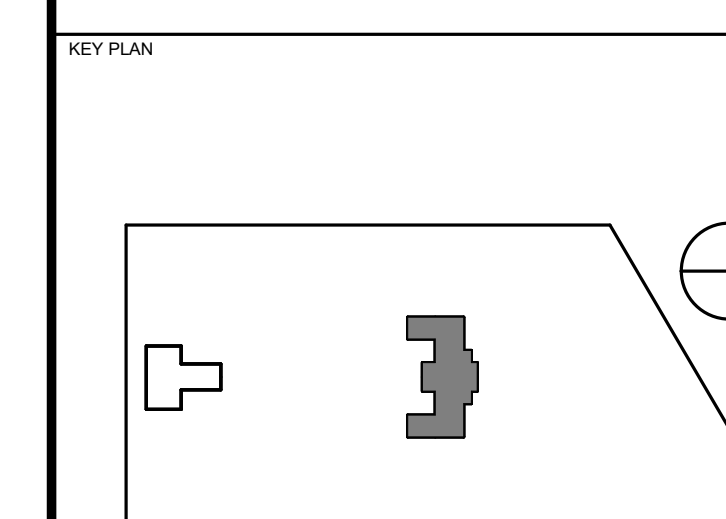
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING DEMOLITION - LOWER LEVEL DEDUCT ALTERNATE**

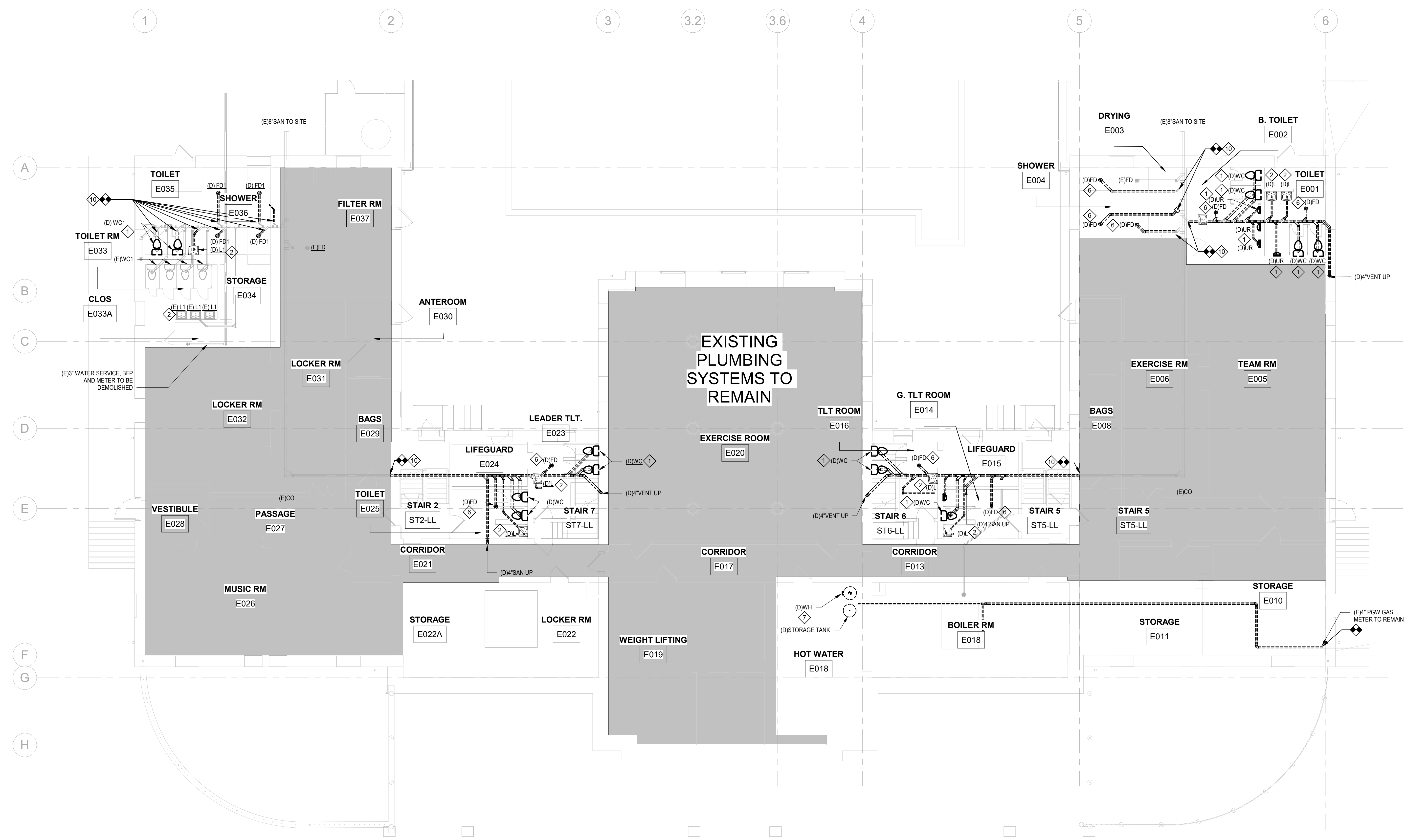
PROJECT NO. KMLX21003	DRAWING NO. P100B-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

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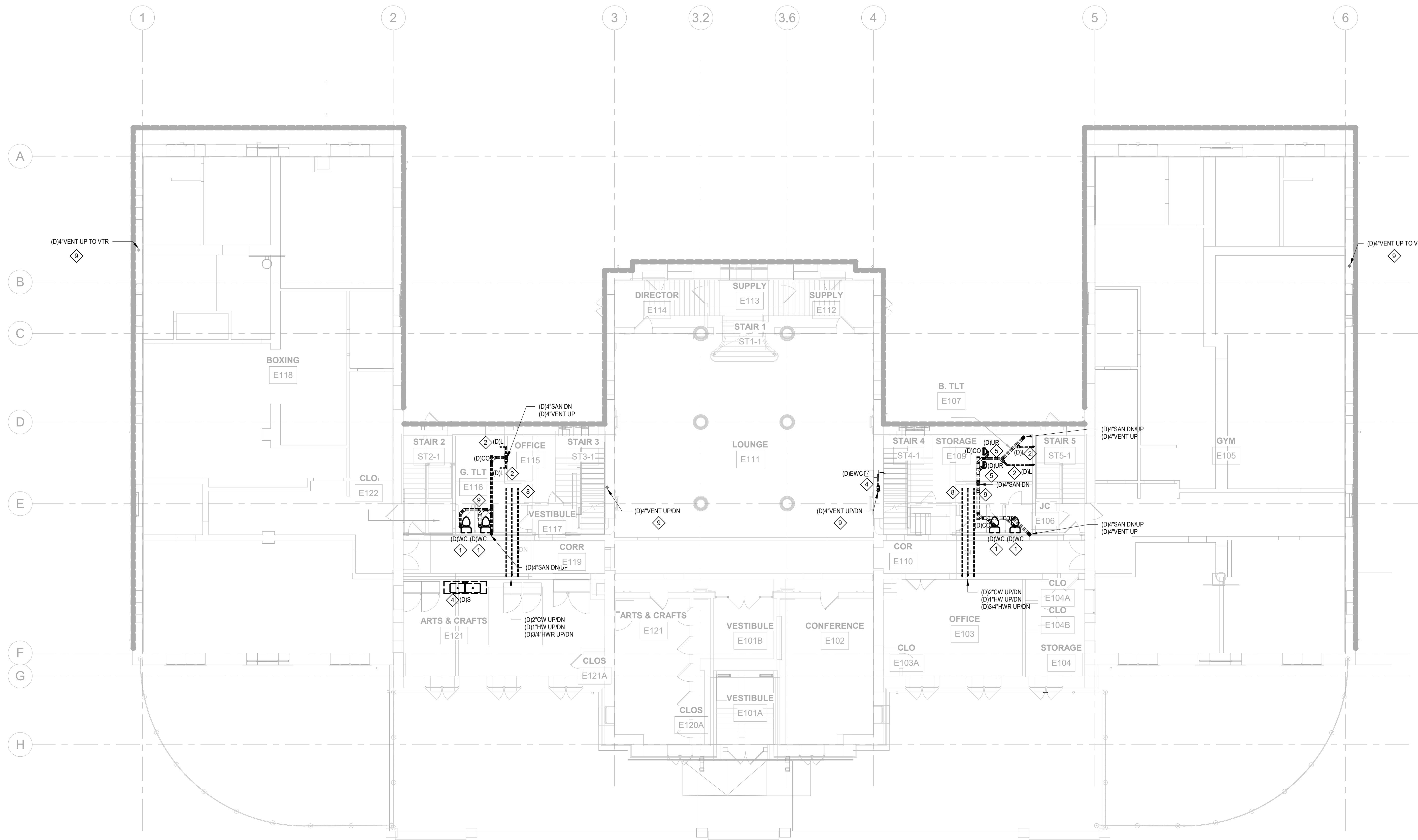
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1 PLUMBING DEMOLITION - REC CENTER LOWER LEVEL DEDUCT ALT.  
P100B-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

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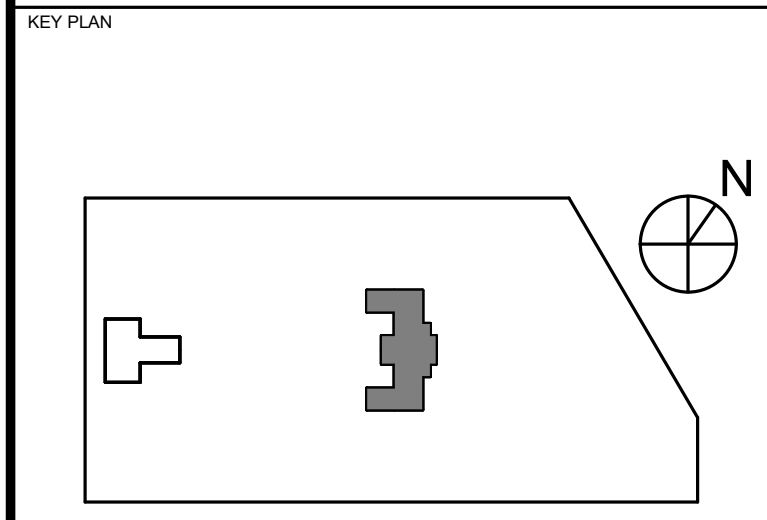
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING DEMOLITION - FIRST FLOOR**

PROJECT NO. KMLX21003  
 DATE 04/21/2023  
 SCALE AS NOTED  
 DRAWN BY: LJP  
 CHECKED BY: RHC

DRAWING NO. P101-R.2

PACKAGE 2 - IFB  
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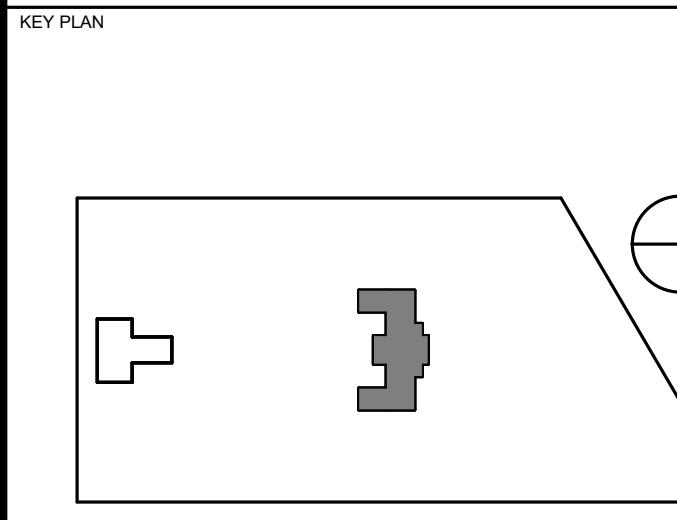
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**CITY OF PHILADELPHIA**  
REBUILD / PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
5TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA PENNSYLVANIA

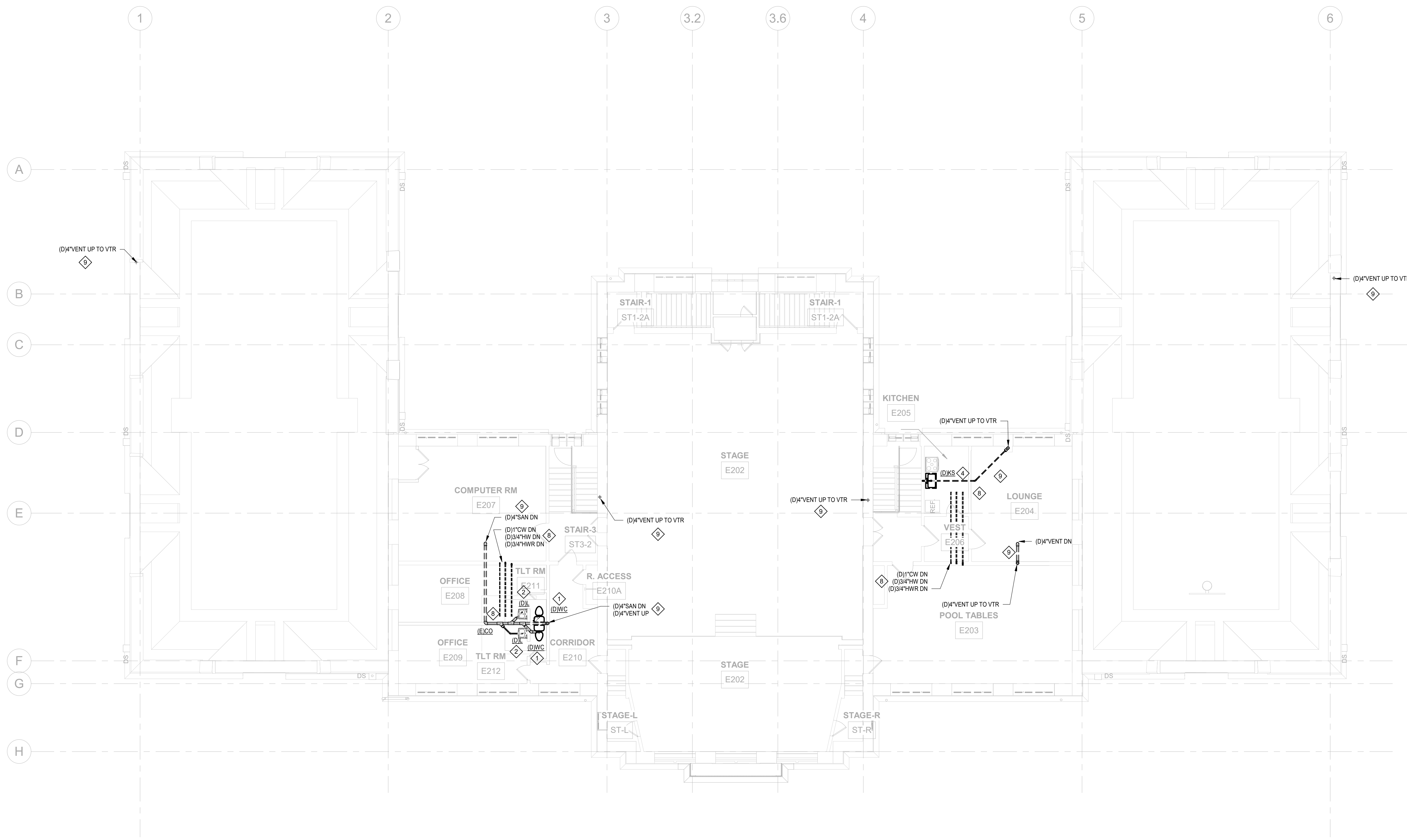
**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



**DRAWING TITLE**  
PLUMBING DEMOLITION - SECOND FLOOR

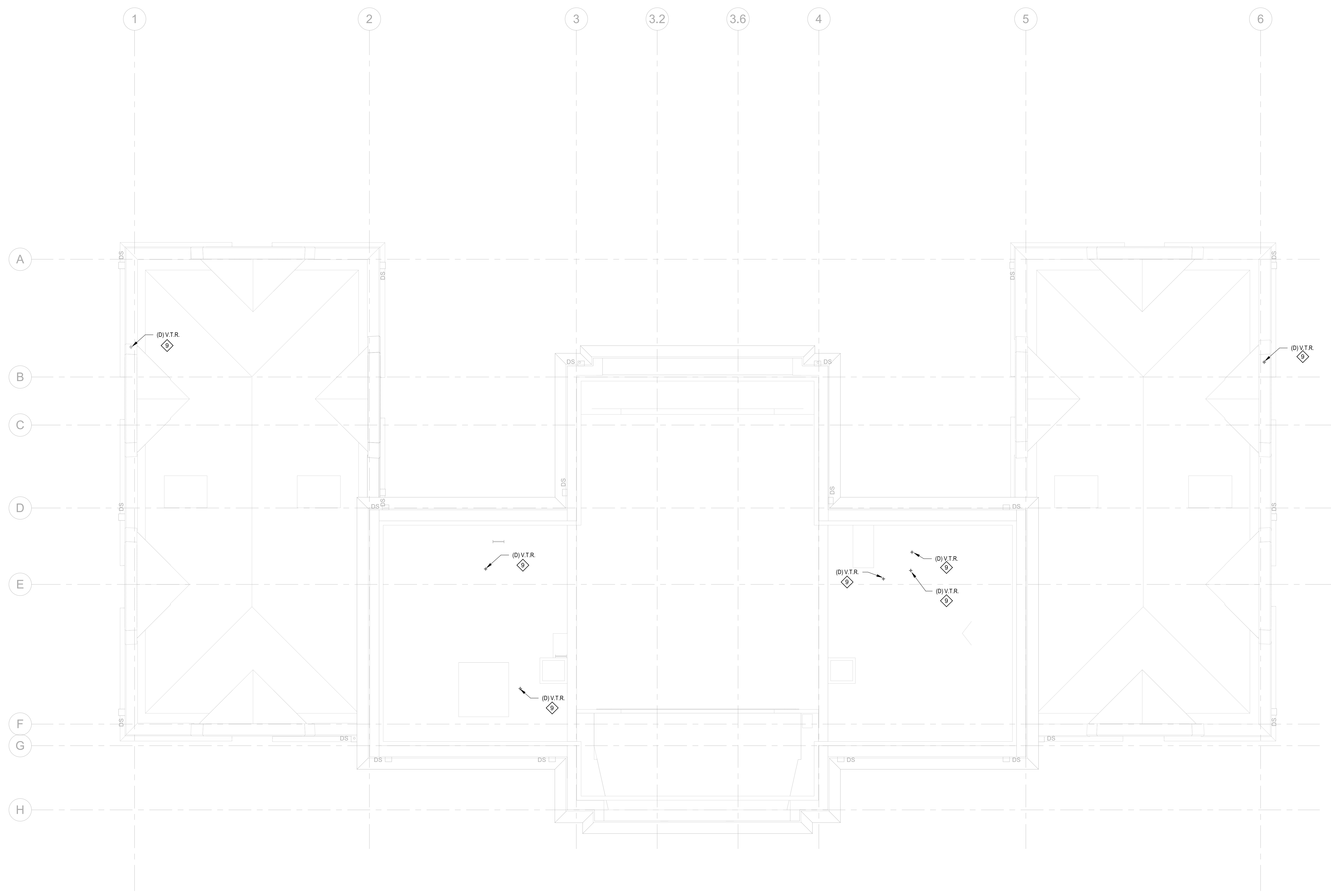
PROJECT NO. KMLX21003	DRAWING NO. P102-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 PLUMBING DEMOLITION - REC CENTER SECOND FLOOR  
K102-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023



1 PLUMBING DEMOLITION - REC CENTER ROOF/ATTIC  
 P103-R.2 1/8" = 1'-0"

**PLUMBING NOTES:**

1. REFER TO P-0.1 FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
2. REFER TO SCHEDULES AND PLUMBING DETAILS PERTAINING TO THIS PROJECT.
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5. ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
6. COORDINATE ELECTRICAL INSTALLATION WITH ELECTRICAL DESIGN DRAWINGS.
7. ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR GREATER SHALL BE PITCHED AT 1/8" SLOPE UNLESS OTHERWISE NOTED.
8. ALL SANITARY AND STORM PIPING OF 3" IN SIZE OR SMALLER SHALL BE PITCHED AT 1/4" SLOPE UNLESS OTHERWISE NOTED.
9. ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
10. PROVIDE SURESEAL #7042 OR EQUAL TRAP PRIMER FOR FLOOR DRAINS.
11. ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
12. ALL PIPING IS CONSIDERED TO BE NEW UNLESS OTHERWISE IDENTIFIED AS EXISTING TO REMAIN OR TO BE DEMOLISHED.

**DEMOLITION KEYNOTES:**

1. DISCONNECT AND REMOVE EXISTING WATER CLOSET FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
2. DISCONNECT AND REMOVE EXISTING LAVATORY FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
3. DISCONNECT AND REMOVE EXISTING KITCHEN SINK FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
4. DISCONNECT AND REMOVE EXISTING UTILITY SINK/ELECTRIC WATER COOLER FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
5. DISCONNECT AND REMOVE EXISTING URINAL FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
6. DISCONNECT AND REMOVE EXISTING WATER HEATER AND STORAGE TANK EQUIPMENT IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, TRAPS, HANGERS AND SUPPORTS.
7. DISCONNECT AND REMOVE ALL NATURAL GAS PIPING TO POINT INDICATED ON PLANS IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, VALVES, AND SUPPORTS.
8. DISCONNECT AND REMOVE ALL DOMESTIC WATER PIPING IN THE ENTIRE BUILDING BACK TO POINT INDICATED ON DRAWINGS. THIS INCLUDES DOMESTIC HOT AND COLD WATER PIPING, FITTINGS, VALVES AND SUPPORTS.
9. DISCONNECT AND REMOVE SANITARY/VENT OR STORM PIPING TO POINTS INDICATED ON DRAWING OR IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, TRAPS, AND SUPPORTS.
10. PLUMBING CONTRACTOR SHALL ABANDON PIPING IN PLACE OR BE RESPONSIBLE FOR EXISTING SLAB REMOVAL, TRENCHING, BACKFILLING AND PROVIDING NEW SLAB. THE CONTRACTOR SHALL MATCH NEW FLOORING WITH EXISTING OR PROPOSED FINISHED FLOOR. CONTRACTOR SHALL TRENCH IN ALL AREAS WHERE PIPING IS IDENTIFIED TO BE REMOVED. REFER TO TRENCHING, EXCAVATION, AND BACKFILLING SPECIFICATIONS.
11. PRIOR TO CONSTRUCTION START THE CONTRACTOR SHALL SCOPE WITH CAMERA ALL OF THE DRAINAGE LINES (SANITARY AND STORM) TO IDENTIFY THE ROUTING OF PIPING BELOW THE SLAB. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FLOOR PLAN HIGHLIGHTED ROUTING. THE DEMOLITION OF SLAB AND PIPING BELOW SLAB SHALL NOT START TILL PLANS ARE PROVIDED TO ENGINEER.
12. DISCONNECT AND REMOVE EXISTING ROOF DRAIN IN ITS ENTIRETY, BUT NOT LIMITED TO DRAIN, STRAINER, AND SUPPORTS.
13. DISCONNECT AND REMOVE EXISTING FLOOR DRAIN IN ITS ENTIRETY, BUT NOT LIMITED TO DRAIN, PIPING, AND FITTING.
14. DISCONNECT AND REMOVE DOMESTIC WATER SERVICE PIPING AND BACKFLOW PREVENTOR BACK TO POINT INDICATED ON THE DRAWINGS. THIS SCOPE OF WORK APPLIES ONLY WHEN ADD ALTERNATE SCOPE OF WORK IS ACCEPTED.

**REVISIONS**

ISSUE	DATE	DESCRIPTION
06/02/23	ISSUE FOR BID	



REVIEWED BY:

PROJECT COORDINATOR:

SEAL:



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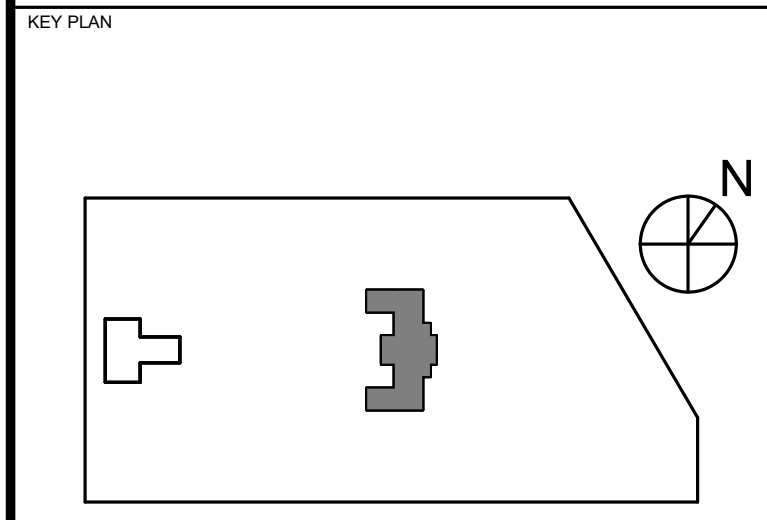
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING DEMOLITION - ATTIC**

PROJECT NO. KMLX21003	DRAWING NO. <b>P103-R.2</b>
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

**PACKAGE 2 - IFB**  
**NOT FOR CONSTRUCTION**  
**06/02/2023**

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**REVISIONS**

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR:

SEALS:



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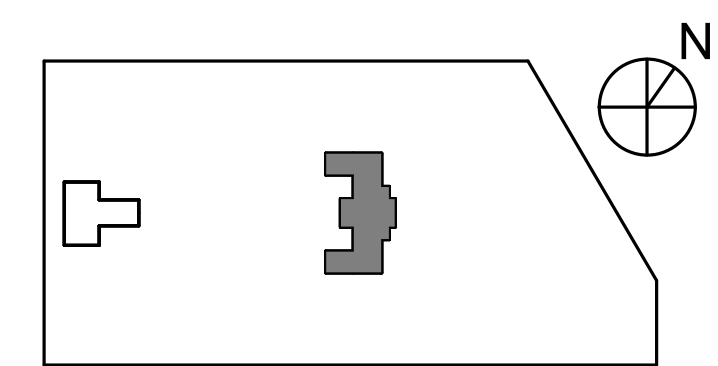
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**PROJECT TITLE**  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

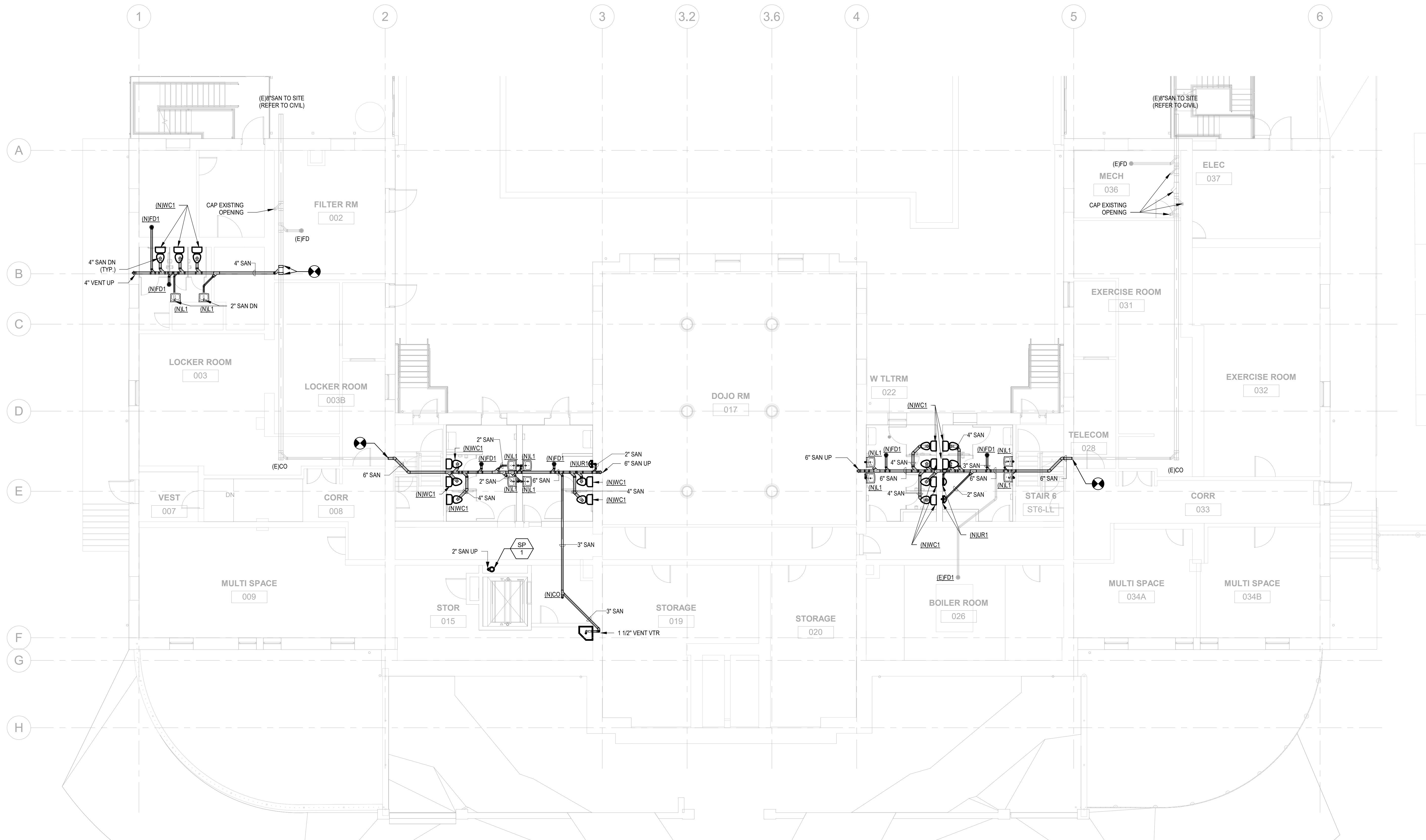
**KEY PLAN**



**DRAWING TITLE**  
**PLUMBING PROPOSED DRAINAGE - LOWER LEVEL BASE SCOPE**

PROJECT NO. KMLX21003	DRAWING NO.
DATE 04/21/2023	P200-R.2
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

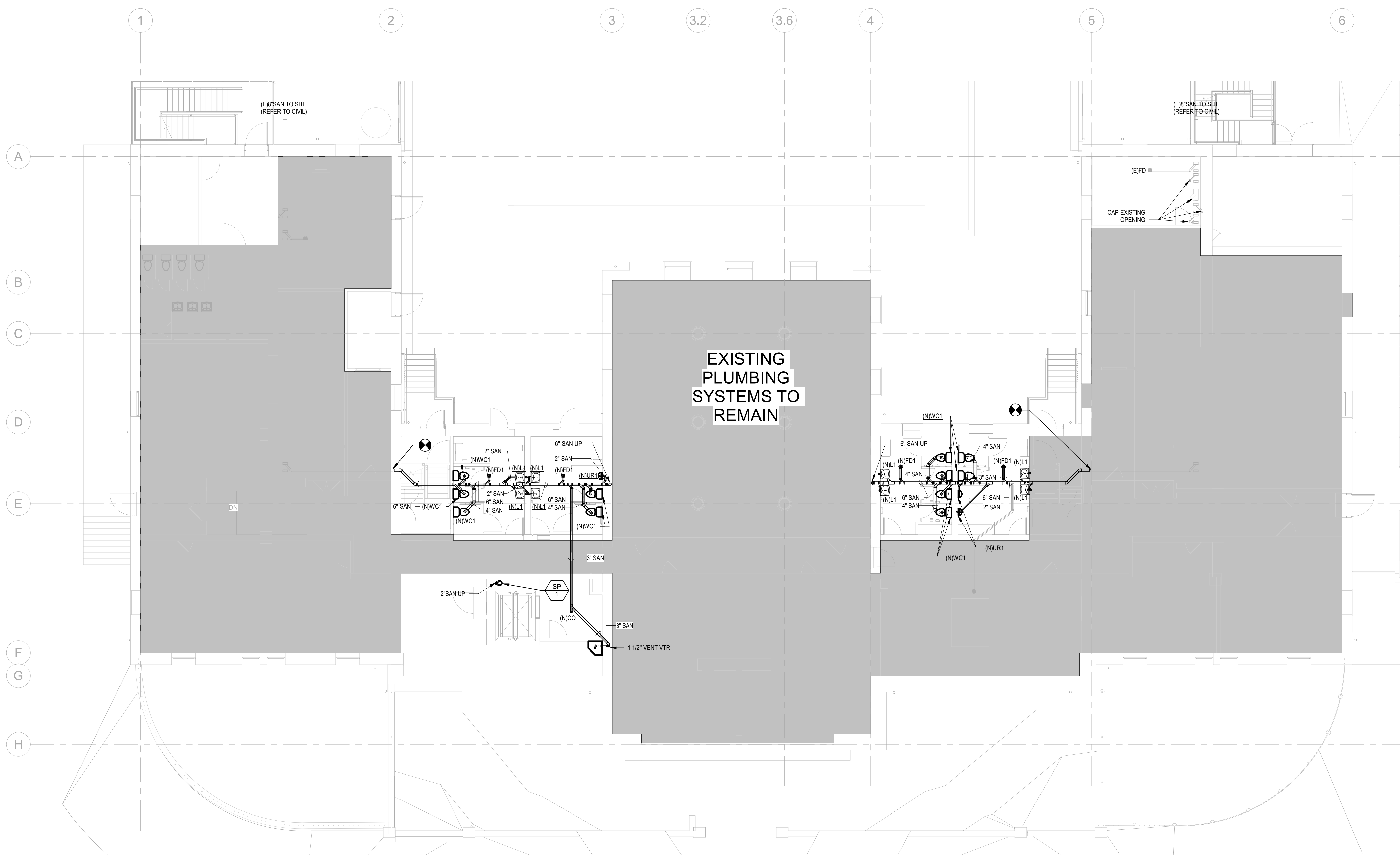
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**1 PLUMBING PROPOSED DRAINAGE - REC CENTER LOWER LEVEL BASE SCOPE**  
 P200-R.2 1/8" = 1'-0"

**PACKAGE 2 - IFB**  
**NOT FOR CONSTRUCTION**  
**06/02/2023**





1 PLUMBING PROPOSED DRAINAGE - REC CENTER LOWER LEVEL DEDUCT ALT.  
 P200B-R.2 1/8" = 1'-0"

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**REVISIONS**

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



REVIEWED BY:  
 PROJECT COORDINATOR:  
 SEALS:



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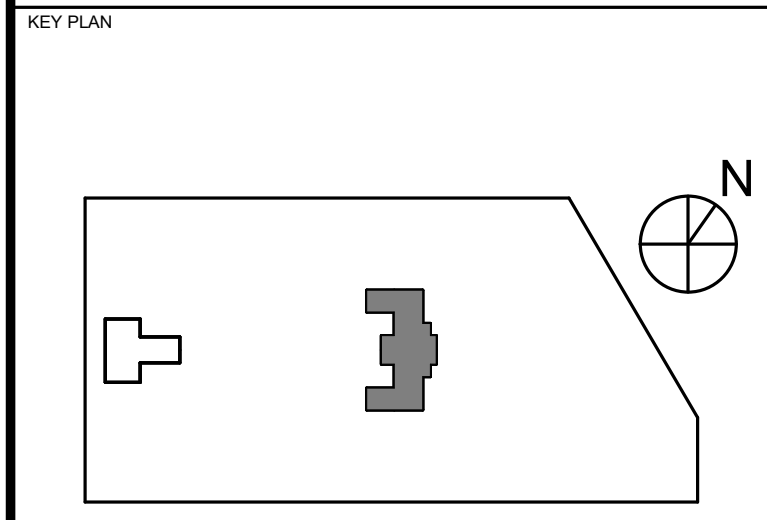
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING PROPOSED DRAINAGE - LOWER LEVEL DEDUCT ALT.**

PROJECT NO. KMLX21003	DRAWING NO. P200B-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: CEM	
CHECKED BY: Approver	

PACKAGE 2 - IFB  
 NOT FOR CONSTRUCTION  
 06/02/2023

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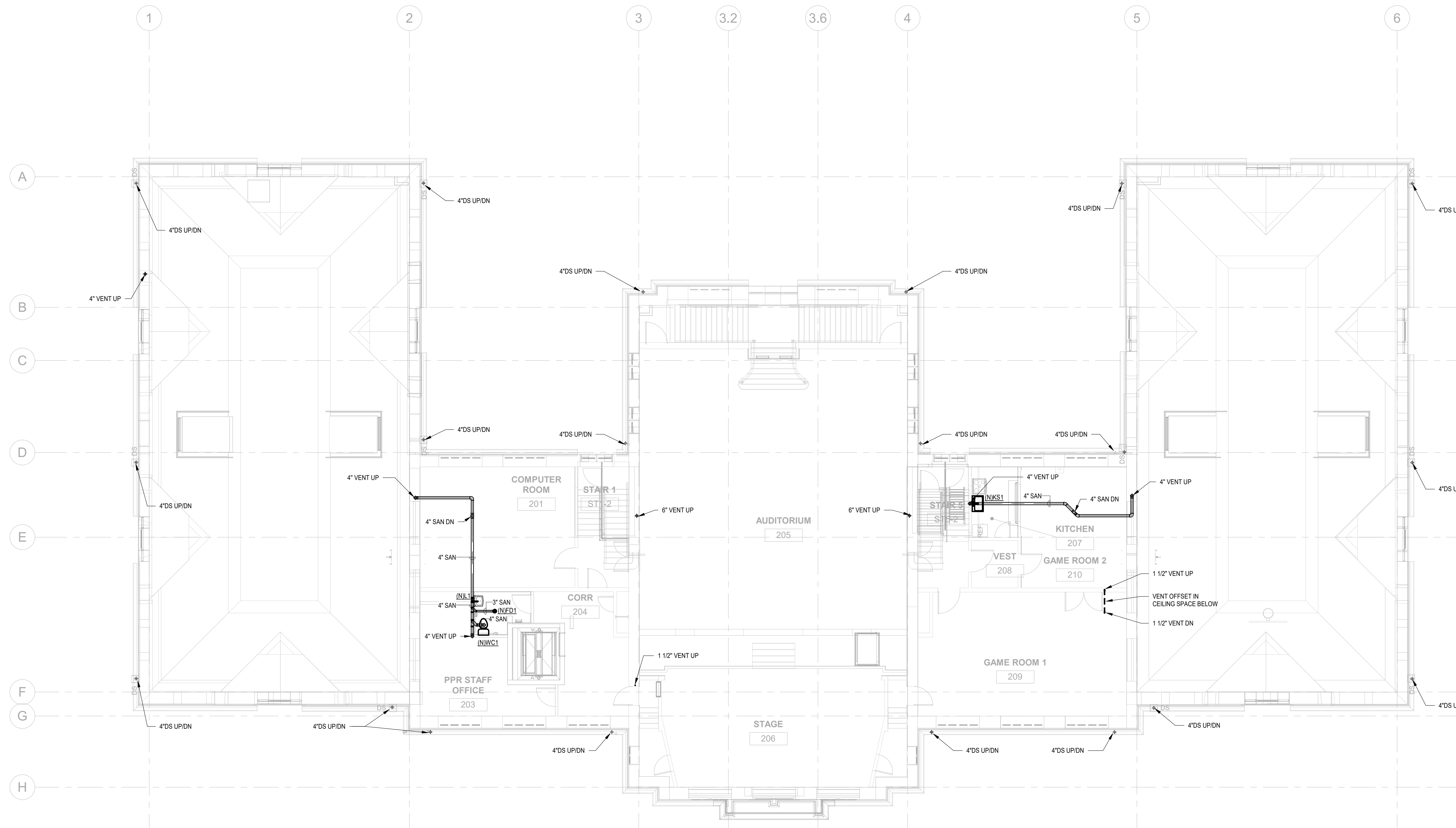






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1 PLUMBING PROPOSED DRAINAGE - REC CENTER SECOND FLOOR  
 P202-R.2 1/8" = 1'-0"

**REVISIONS**

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

SEALS



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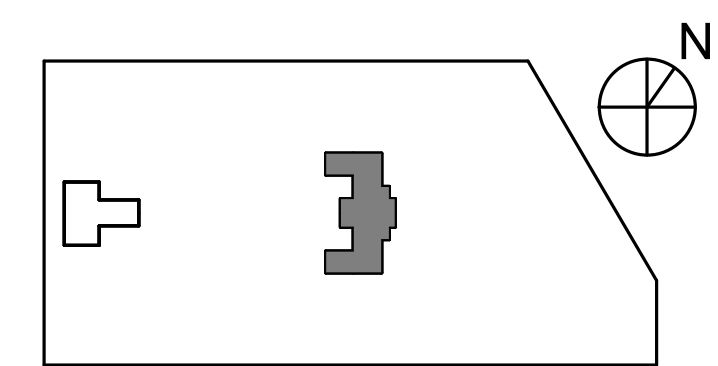
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

KEY PLAN



DRAWING TITLE  
**PLUMBING PROPOSED DRAINAGE - SECOND FLOOR**

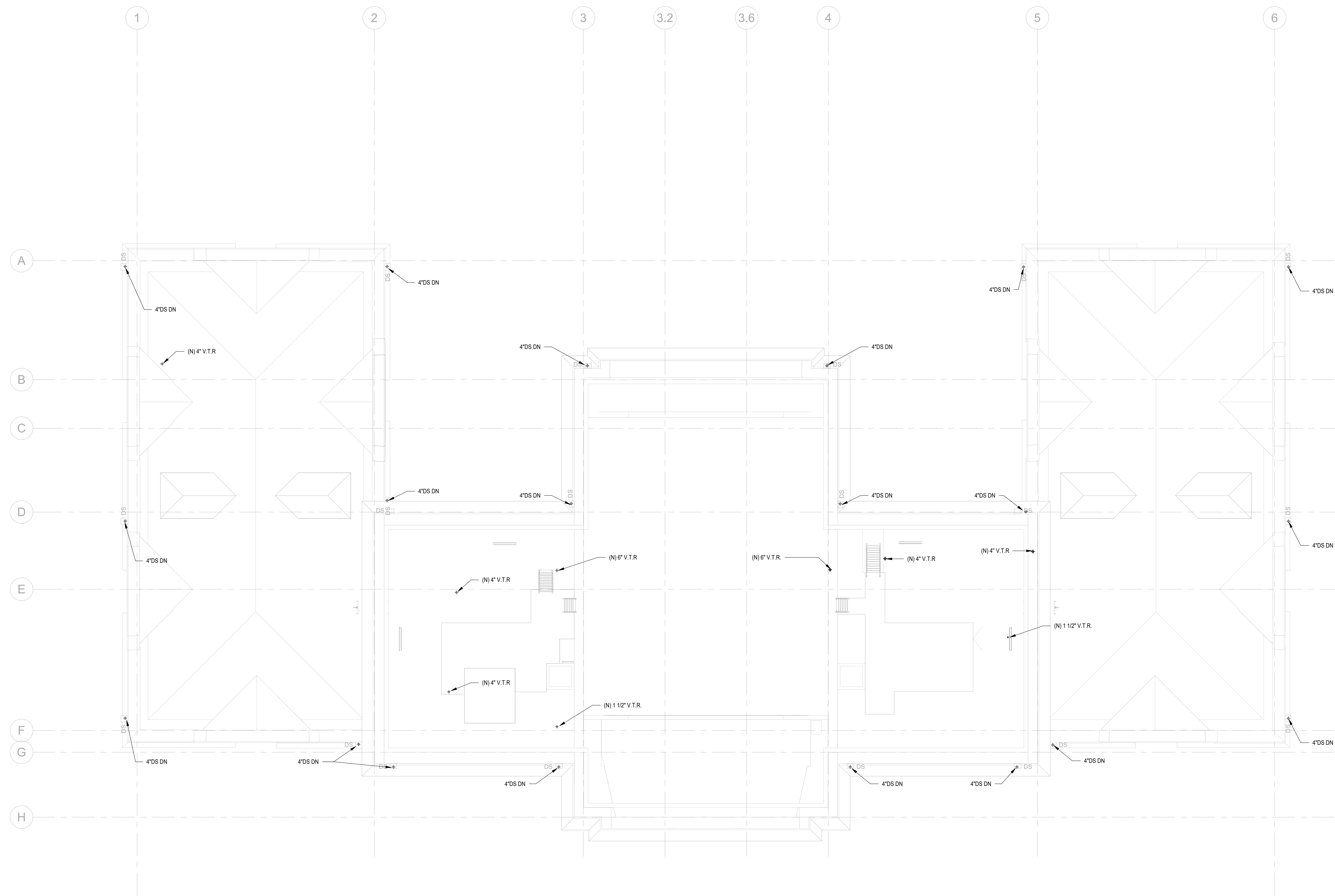
PROJECT NO. KMLX21003	DRAWING NO. P202-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

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PACKAGE 2 - IFB  
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 06/02/2023

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1 PLUMBING PROPOSED DRAINAGE - REC CENTER ATTIC  
 203-R.2 1/8" = 1'-0"

**REVISIONS**

ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



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PROJECT COORDINATOR

SEALS



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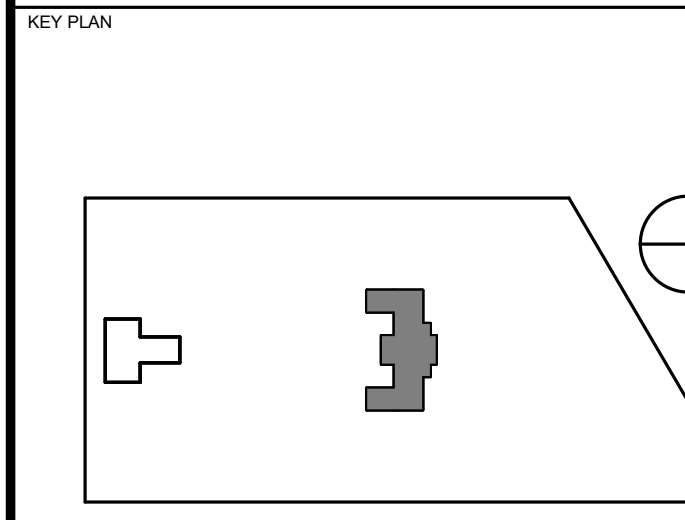
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING PROPOSED DRAINAGE - ROOF**

PROJECT NO. KMLX21003	DRAWING NO. <b>P203-R.2</b>
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

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**NOT FOR CONSTRUCTION**  
 06/02/2023

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REVIEWED BY:

PROJECT COORDINATOR

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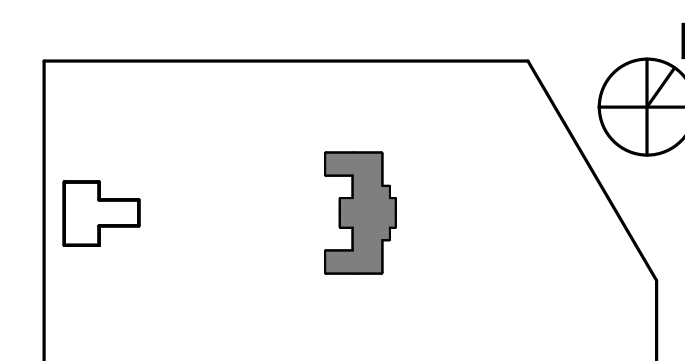
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**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2

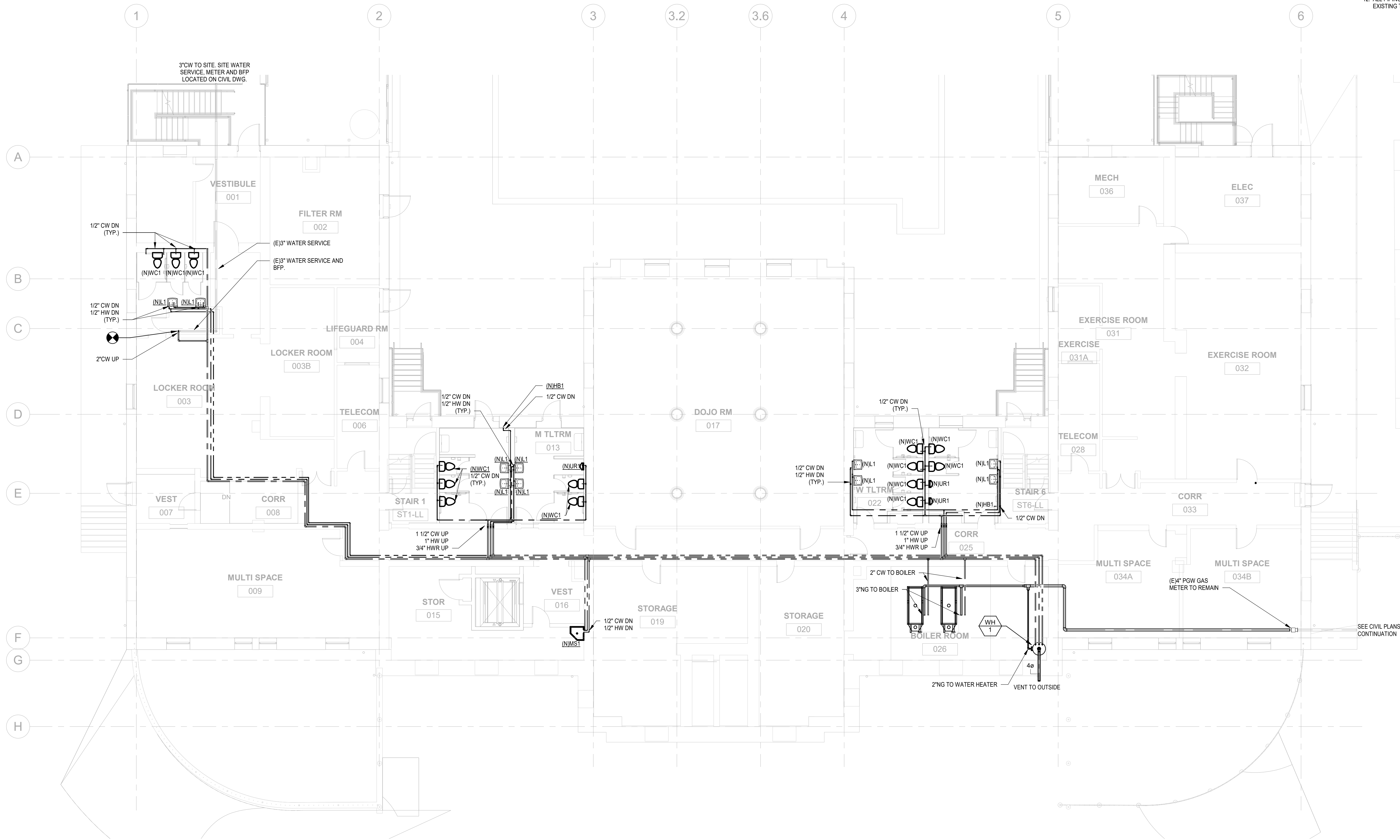
**KEY PLAN**



**DRAWING TITLE**  
PLUMBING PROPOSED SUPPLY - LOWER LEVEL BASE SCOPE

PROJECT NO. KMLX21003	DRAWING NO.
DATE 04/21/2023	<b>P300-R.2</b>
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

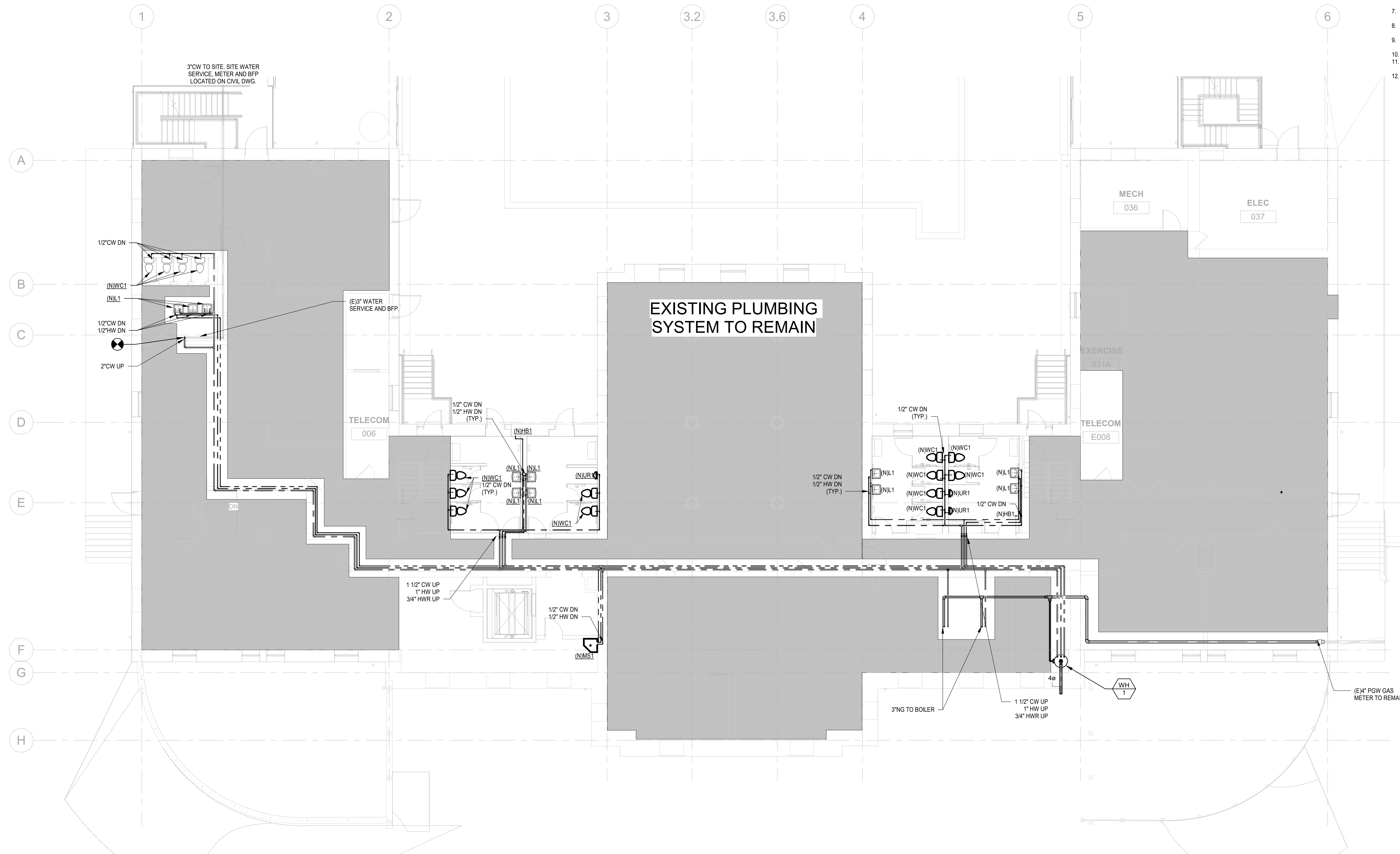
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



**1 PLUMBING PROPOSED SUPPLY - REC CENTER LOWER LEVEL BASE SCOPE**  
P300-R.2 1/8" = 1'-0"

**PACKAGE 2 - IFB**  
**NOT FOR CONSTRUCTION**  
06/02/2023





**PLUMBING NOTES:**

- REFER TO P-0.1 FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
- REFER TO SCHEDULES AND PLUMBING DETAILS PERTAINING TO THIS PROJECT.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
- COORDINATE ELECTRICAL INSTALLATION WITH ELECTRICAL DESIGN DRAWINGS.
- ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR GREATER SHALL BE PITCHED AT 1/8" SLOPE UNLESS OTHERWISE NOTED.
- ALL SANITARY AND STORM PIPING OF 3" IN SIZE OR SMALLER SHALL BE PITCHED AT 1/4" SLOPE UNLESS OTHERWISE NOTED.
- ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
- PROVIDE SURESEAL #97042 OR EQUAL TRAP PRIMER FOR FLOOR DRAINS.
- ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
- ALL PIPING IS CONSIDERED TO BE NEW UNLESS OTHERWISE IDENTIFIED AS EXISTING TO REMAIN OR TO BE DEMOLISHED.

**REVISIONS**

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR:

SEALS:



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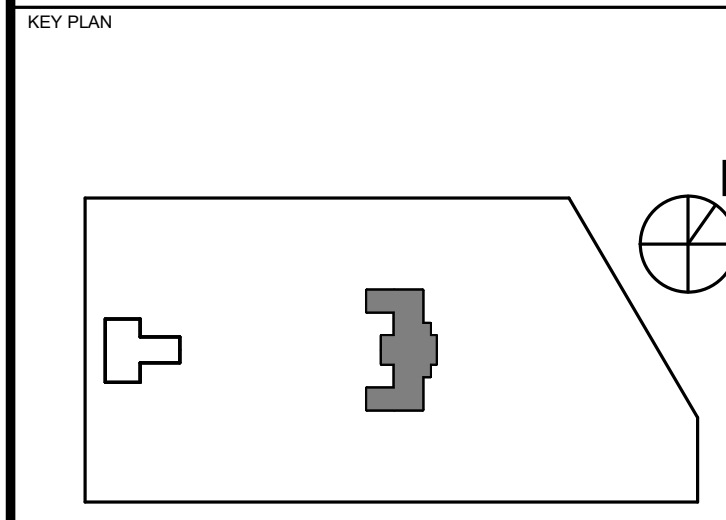
**LANDSCAPE ARCHITECT:**  
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CITY OF PHILADELPHIA  
REBUILD / PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
5TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING PROPOSED SUPPLY - LOWER LEVEL DEDUCT ALT.**

PROJECT NO. KMLX21003	DRAWING NO. P300B-R.3
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: CEM	
CHECKED BY: Approver	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

1 PLUMBING PROPOSED SUPPLY - REC CENTER LOWER LEVEL DEDUCT ALT.  
PROB-23 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

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REVIEWED BY:

PROJECT COORDINATOR

SEALS



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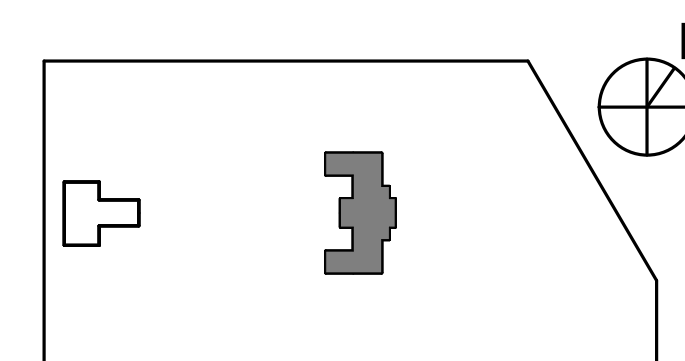
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

KEY PLAN



DRAWING TITLE  
**PLUMBING PROPOSED SUPPLY - LOWER LEVEL ADD ALT.**

PROJECT NO. KMLX21003	DRAWING NO. P300C-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



(E)3' CW TO SITE. SITE WATER SERVICE, METER AND BFP LOCATED ON CIVIL DWG.

(N)2" CW LP  
 (N)2" BFP  
 (N)2" CW DN

2" CW UNDERSLAB

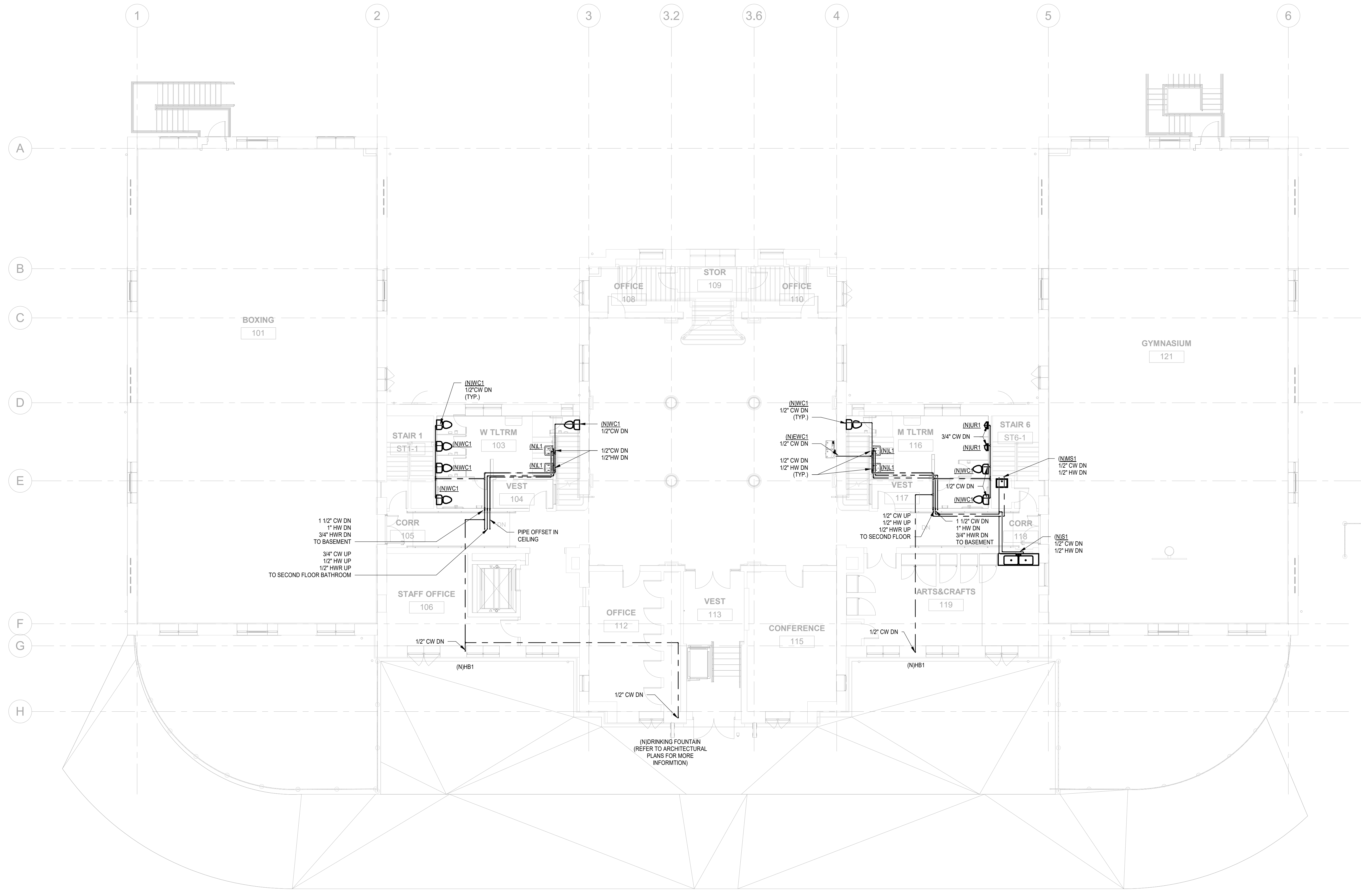
(N)1/2" CW DN (TYP.)  
 (N)1/2" CW DN (TYP.)

1" HW  
 2" CW

**REFER TO BASE SCOPE**

**1 PLUMBING PROPOSED SUPPLY - REC CENTER LOWER LEVEL ADD. ALT**  
 P300C-R.2 1/8" = 1'-0"

**PACKAGE 2 - IFB**  
**NOT FOR CONSTRUCTION**  
**06/02/2023**



1 PLUMBING PROPOSED SUPPLY - REC CENTER FIRST FLOOR  
 P301-R.2 1/8" = 1'-0"

**PLUMBING NOTES:**

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**REVISIONS**

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REVIEWED BY:  
 PROJECT COORDINATOR:  
 SEALS:



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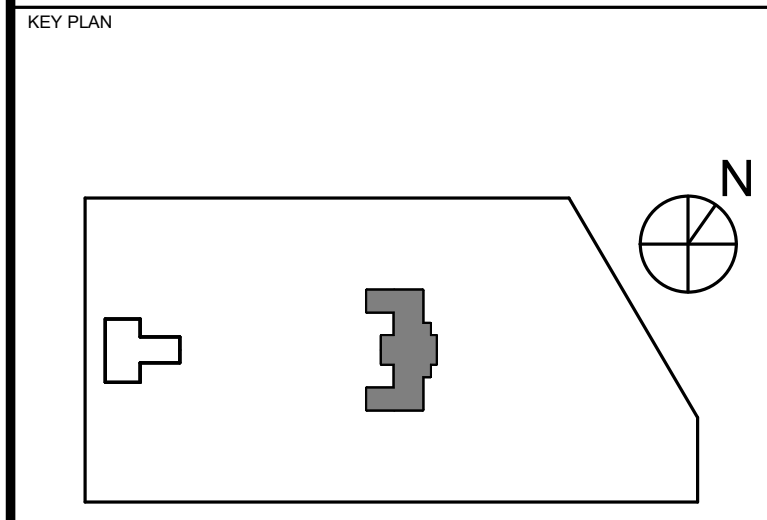
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PROJECT TITLE  
 KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



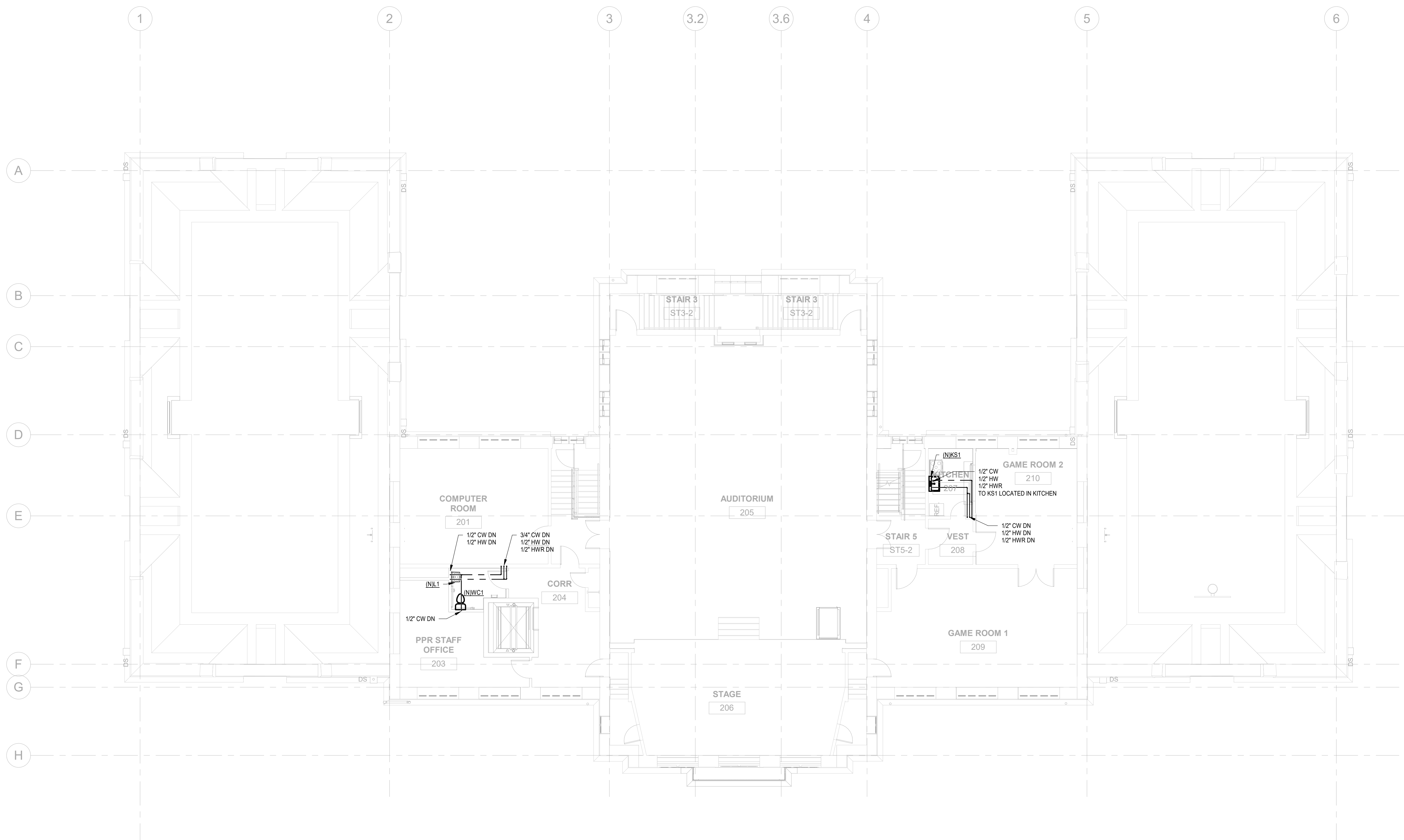
DRAWING TITLE  
 PLUMBING PROPOSED SUPPLY - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. P301-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PACKAGE 2 - IFB  
 NOT FOR CONSTRUCTION  
 06/02/2023





1 PLUMBING PROPOSED SUPPLY - REC CENTER SECOND FLOOR  
 P302-R.2 1/8" = 1'-0"

**PLUMBING NOTES:**

1. REFER TO P-0.1 FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
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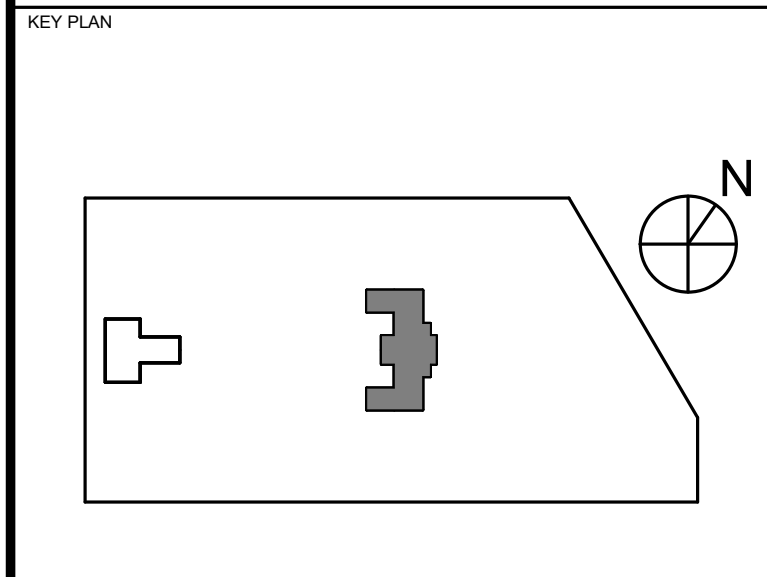
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PROJECT TITLE  
 KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



DRAWING TITLE  
 PLUMBING PROPOSED SUPPLY - SECOND FLOOR

PROJECT NO. KMLX21003	DRAWING NO. P302-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHG

PACKAGE 2 - IFB  
 NOT FOR CONSTRUCTION  
 06/02/2023

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

REVISIONS

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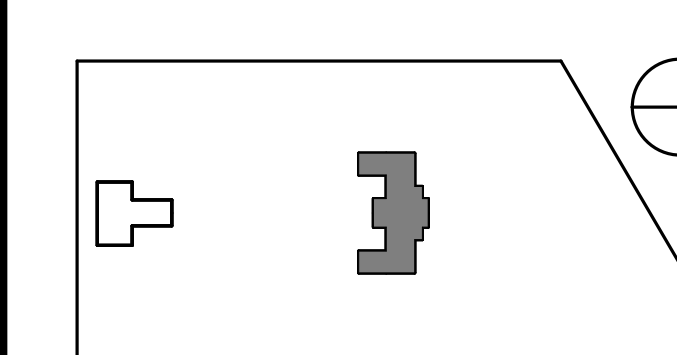
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**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2

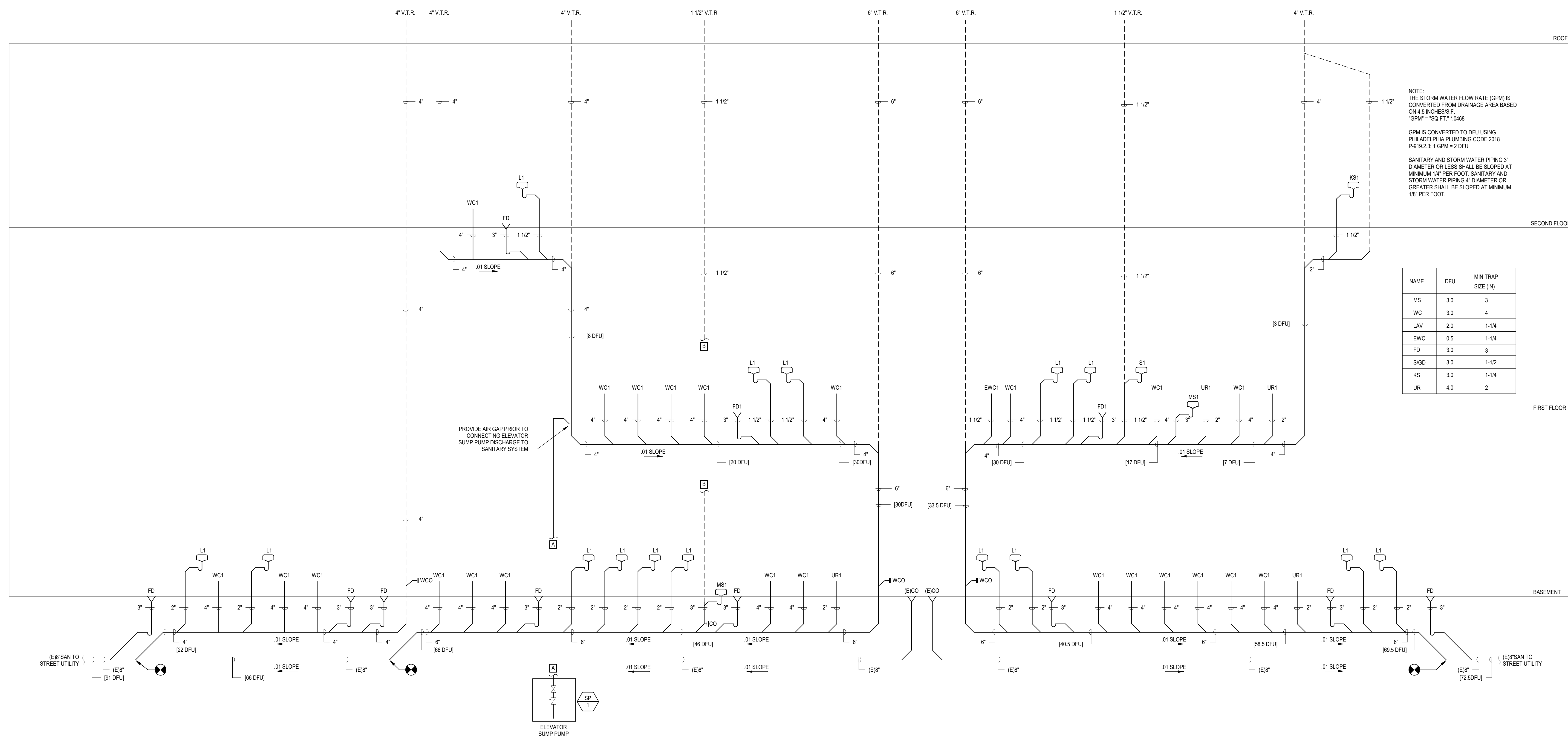
KEY PLAN



**DRAWING TITLE**  
PLUMBING SANITARY RISER BASE SCOPE

PROJECT NO. KMLX21003	DRAWING NO.
DATE 04/21/2023	<b>P400-R.2</b>
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHC	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 SANITARY RISER DIAGRAM - BASE SCOPE  
P400-R.2 NOT TO SCALE

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

REVISIONS

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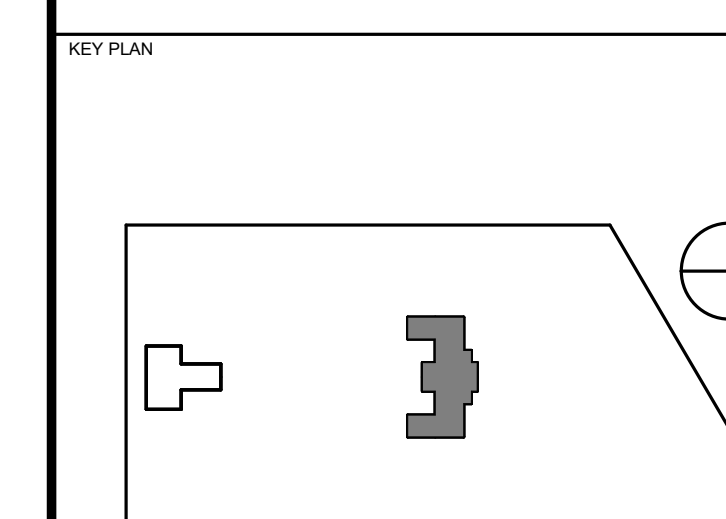
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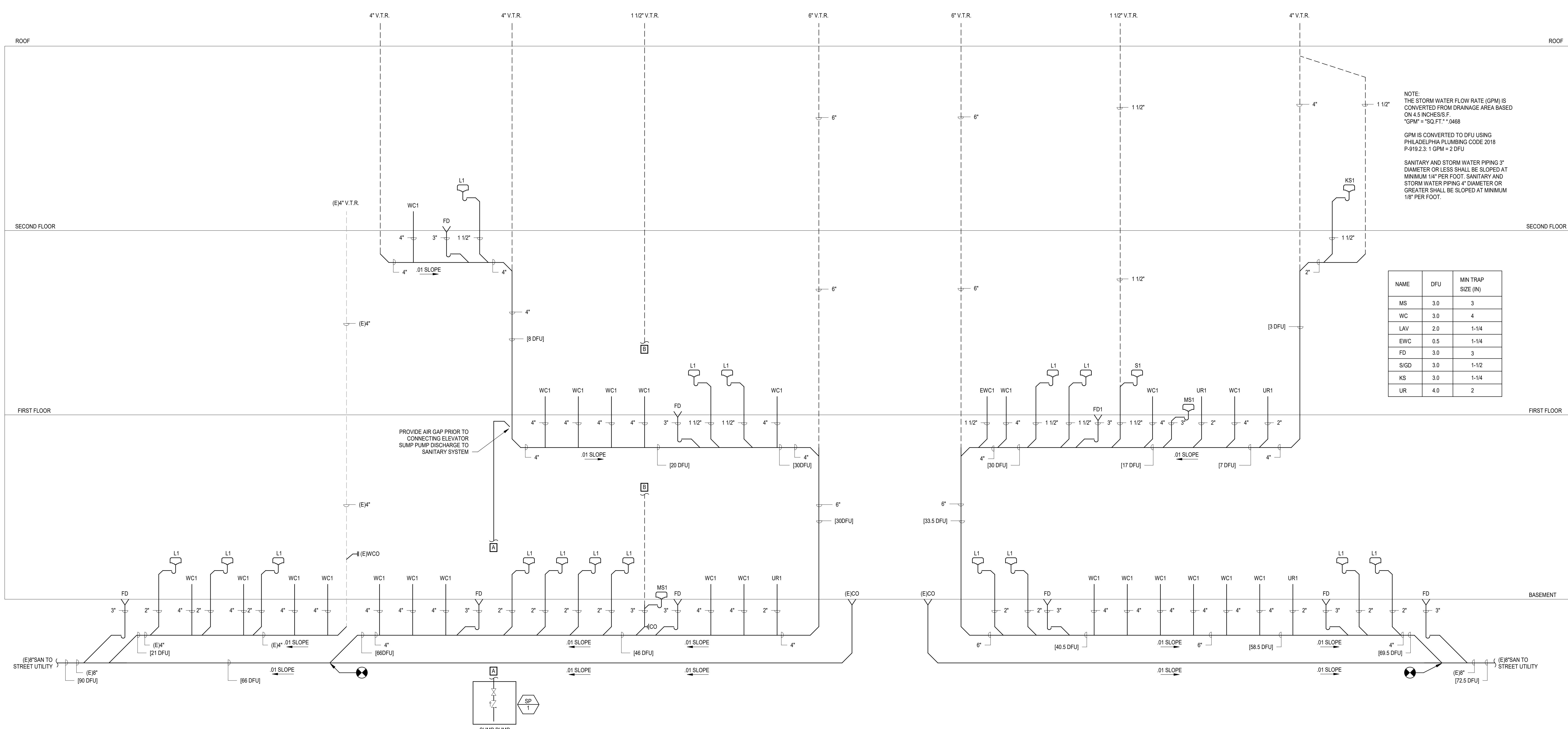
PHILADELPHIA PENNSYLVANIA  
**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



**DRAWING TITLE**  
PLUMBING SANITARY RISER DEDUCT ALT.

PROJECT NO. KMLX21003	DRAWING NO. P400B-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: Author	CHECKED BY: Approver

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



NOTE:  
THE STORM WATER FLOW RATE (GPM) IS CONVERTED FROM DRAINAGE AREA BASED ON 4.5 INCHES/S.F.  
\*GPM\* = \*SQ.FT.\* \*.0488

GPM IS CONVERTED TO DFU USING PHILADELPHIA PLUMBING CODE 2018 P-919.2.3.1 (GPM = 2 DFU)

SANITARY AND STORM WATER PIPING 3" DIAMETER OR LESS SHALL BE SLOPED AT MINIMUM 1/4" PER FOOT. SANITARY AND STORM WATER PIPING 4" DIAMETER OR GREATER SHALL BE SLOPED AT MINIMUM 1/8" PER FOOT.

NAME	DFU	MIN TRAP SIZE (IN)
MS	3.0	3
WC	3.0	4
LAV	2.0	1-1/4
EWC	0.5	1-1/4
FD	3.0	3
SLGD	3.0	1-1/2
KS	3.0	1-1/4
UR	4.0	2

1 SANITARY RISER DIAGRAM - DEDUCT ALT.  
P400B-R.2 NOT TO SCALE

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023





REVISIONS

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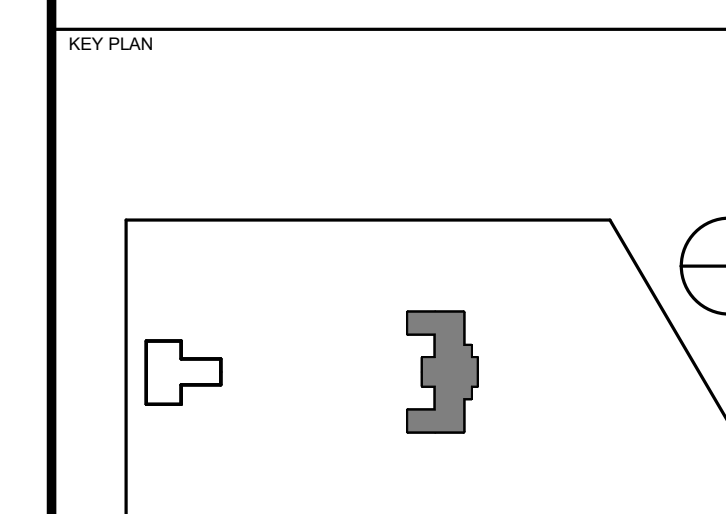
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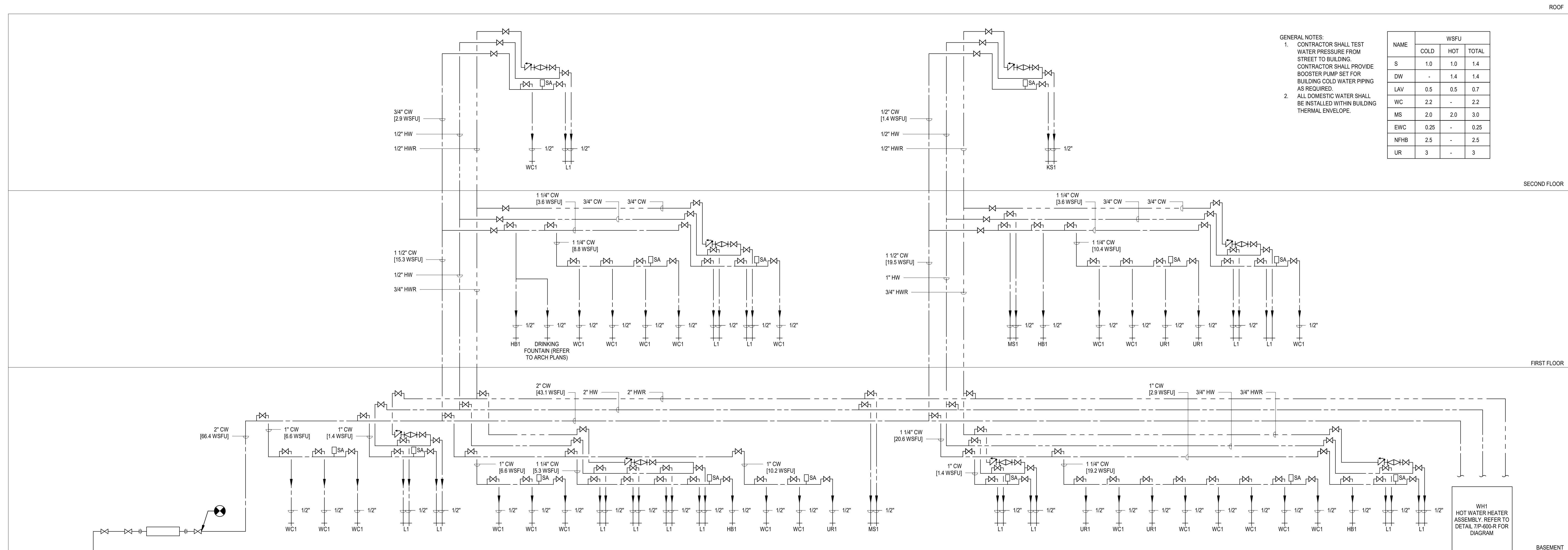
PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING SUPPLY RISER BASE SCOPE**

PROJECT NO. KMLX21003	DRAWING NO. P401-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHG

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



GENERAL NOTES:  
1. CONTRACTOR SHALL TEST WATER PRESSURE FROM STREET TO BUILDING.  
2. CONTRACTOR SHALL PROVIDE BOOSTER PUMP SET FOR BUILDING COLD WATER PIPING AS REQUIRED.  
3. ALL DOMESTIC WATER PIPING BE INSTALLED WITHIN BUILDING THERMAL ENVELOPE.

NAME	WSFU		
	COLD	HOT	TOTAL
S	1.0	1.0	1.4
DW	-	1.4	1.4
LAV	0.5	0.5	0.7
WC	2.2	-	2.2
MS	2.0	2.0	3.0
EWC	0.25	-	0.25
NFHB	2.5	-	2.5
UR	3	-	3

1 DOMESTIC WATER RISER DIAGRAM - BASE SCOPE  
R401-R.2 NOT TO SCALE

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

REVISIONS

ISSUE	DATE	DESCRIPTION
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REVIEWED BY:

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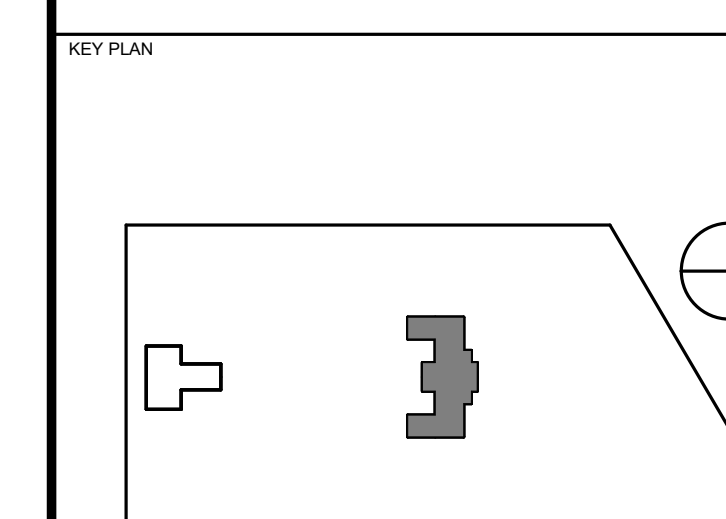
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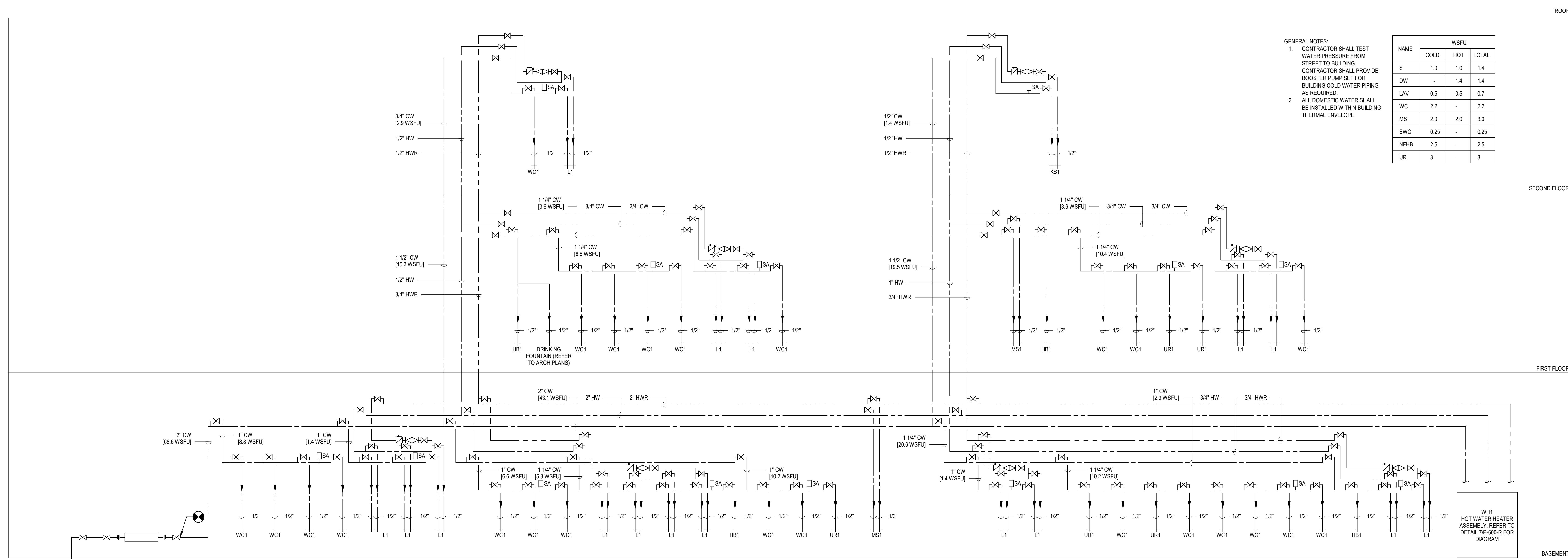
PROJECT TITLE  
**KINGSESSING RECREATION CENTER SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**PLUMBING SUPPLY RISER DEDUCT ALT.**

PROJECT NO. KMLX21003	DRAWING NO. <b>P401B-R.2</b>
DATE 04/21/2023	
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DRAWN BY: Author	
CHECKED BY: Approver	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



- GENERAL NOTES:
- CONTRACTOR SHALL TEST WATER PRESSURE FROM STREET TO BUILDING. CONTRACTOR SHALL PROVIDE BOOSTER PUMP SET FOR BUILDING COLD WATER PIPING AS REQUIRED.
  - ALL DOMESTIC WATER SHALL BE INSTALLED WITHIN BUILDING THERMAL ENVELOPE.

NAME	WSFU		
	COLD	HOT	TOTAL
S	1.0	1.0	1.4
DW	-	1.4	1.4
LAV	0.5	0.5	0.7
WC	2.2	-	2.2
MS	2.0	2.0	3.0
EW	0.25	-	0.25
NFHB	2.5	-	2.5
UR	3	-	3

1 DOMESTIC WATER RISER DIAGRAM - DEDUCT ALT.  
P401B-R.2 NOT TO SCALE

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023



REVISIONS

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



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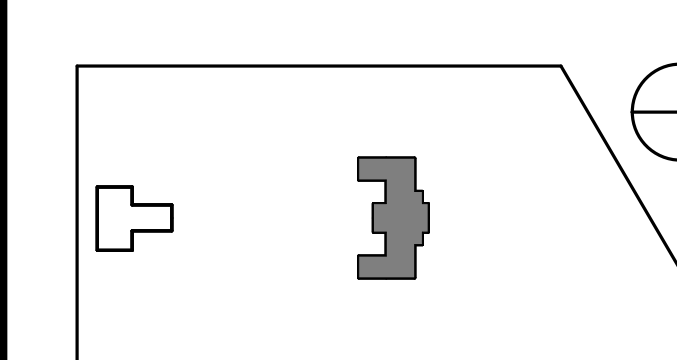
**CITY OF PHILADELPHIA**  
 REBUILD / PHILADELPHIA PARKS AND RECREATION

1515 ARCH STREET  
 5TH FLOOR, ONE PARKWAY BUILDING  
 PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

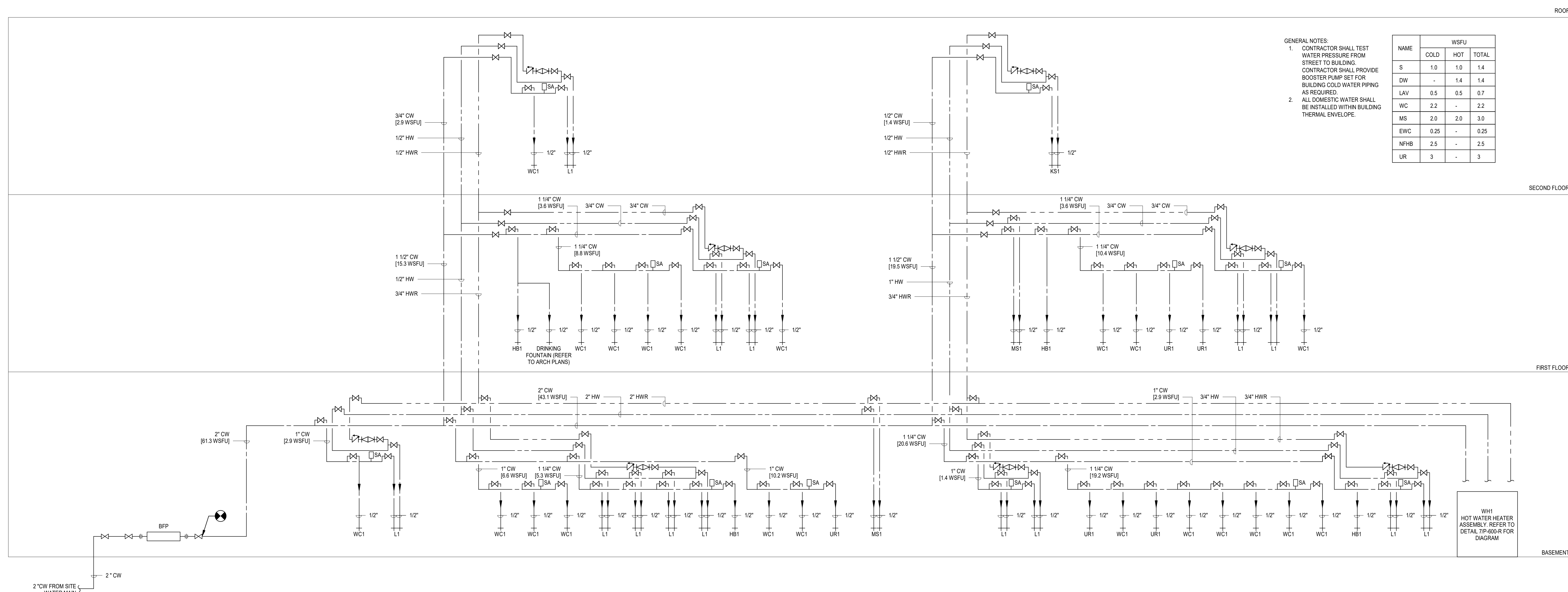
KEY PLAN



DRAWING TITLE  
**PLUMBING SUPPLY RISER ADD ALT.**

PROJECT NO. KMLX21003	DRAWING NO. P401C-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: Author	CHECKED BY: Approver

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	COLD	HOT	TOTAL
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DW	-	1.4	1.4
LAV	0.5	0.5	0.7
WC	2.2	-	2.2
MS	2.0	2.0	3.0
EWC	0.25	-	0.25
NFHB	2.5	-	2.5
UR	3	-	3

1 DOMESTIC WATER RISER DIAGRAM - ADD ALT.  
 P401C-R.2 NOT TO SCALE

PACKAGE 2 - IFB  
 NOT FOR CONSTRUCTION  
 06/02/2023

PIPE SCHEDULE															
SERVICE	SANITARY/VENT/STORM UNDERGROUND				SANITARY/VENT/STORM ABOVE GROUND				NATURAL GAS INDOORS/OUTDOORS		DOMESTIC COLD WATER INDOORS 40-80 F		DOMESTIC HOT WATER INDOORS 80-140 F		
	PIPE SIZE	MATERIAL/JOINTS		PIPE SIZE	MATERIAL/JOINTS		PIPE SIZE	MATERIAL/JOINTS		PIPE SIZE	MATERIAL/JOINTS		PIPE SIZE	MATERIAL/JOINTS	
PIPE MATERIALS	2" & UP	ASTM A74, CISPI 310, C564 CAST IRON SOIL PIPE - HUB AND SPIGOT, NEOPRENE GASKET		1 1/4" & UP	ASTM A888, CISPI 310 CAST IRON SOIL PIPE - HUB AND SPIGOT, STAINLESS STEEL CLAMPS		3/4" - 3"	ASTM A53 SCH 80 STEEL/THREADED		1/2" - 4"	ASTM B88 HARD-DRAWN TYPE L COPPER/ANSI B16.22 SOLDER 95/5TA SOLDERED		1/2" - 4"	ASTM B88 HARD-DRAWN TYPE L COPPER/ANSI B16.22 SOLDER 95/5TA SOLDERED	
	FITTINGS	HUB AND SPIGOT		FITTINGS	DWW HUBLESS		4" & UP	ASTM A53 SCH 40 SEAMLESS STEEL/ANSI B16.9 BUTT WELD		-	-		-	-	
MAX. OPERATING PRESSURE SEAMLESS/ERW	150 PSIG SEAMLESS				150 PSIG SEAMLESS				150 PSIG SEAMLESS		150 PSIG SEAMLESS		150 PSIG SEAMLESS		
PIPE MINIMUM INSULATION THICKNESS	PIPE SIZE	INSULATION THICKNESS (STORM ONLY)		PIPE SIZE	INSULATION THICKNESS (STORM ONLY)		PIPE SIZE	INSULATION THICKNESS		PIPE SIZE	INSULATION THICKNESS		PIPE SIZE	INSULATION THICKNESS	
	2"	1"		1-1/4" - 2"	1"		3/4" - 1-1/2"	-		3/4" - 1-1/2"	1"		3/4" - 1"	1"	
	2-1/2" - 4"	1"		2-1/2" - 4"	1"		2" - 4"	-		2" - 4"	1"		2" - 4"	1"	
	6"	1"		6"	1"		6"	-		6"	1-1/2"		6"	1-1/2"	
INSULATION TYPE	-		-		-		-		-		-		-		
JACKET	-		-		-		-		-		-		-		
WEATHERPROOFING	NONE		NONE		NONE		YELLOW ANTI-COROSION PAINT		0.016 ALUMINUM (OUTDOORS ONLY)		0.016 ALUMINUM (OUTDOORS ONLY)		0.016 ALUMINUM (OUTDOORS ONLY)		
MAXIMUM K-VALUE	-		-		-		MAX PRESSURE DROP - 0.3 in W.C.		Kmax = 0.23 AT 60 DEG F MEAN TEMP		Kmax = 0.23 AT 60 DEG F MEAN TEMP		Kmax = 0.24 AT 120 DEG F MEAN TEMP		
PIPE VALVES	PIPE SIZE	ISOLATION/THROTTLE		PIPE SIZE	ISOLATION/THROTTLE		PIPE SIZE	ISOLATION/THROTTLE		PIPE SIZE	ISOLATION/THROTTLE		PIPE SIZE	ISOLATION/THROTTLE	
	-	-		-	-		3/4" - 2"	GATE VALVE/GLOBE VALVE		3/4" - 3"	BALL VALVE/BALL VALVE		3/4" - 3"	BALL VALVE/BALL VALVE	

NOTES:  
1. CONTRACTOR SHALL FOLLOW ALL REQUIRED LISTINGS & MANUFACTURES INSTALLATION REQUIREMENTS IN ORDER TO MAINTAIN ALL WARRANTIES  
2. JOIN HUBLESS CAST-IRON SOIL PIPING AND FITTINGS ACCORDING TO CISPI 301 AND CISPI'S 'CAST IRON SOIL PIPE AND FITTING HANDBOOK' FOR HUBLESS-COUPLING JOINTS.  
3. HUBLESS COUPLINGS SHALL BE, HEAVY-DUTY, CLASS 1, ASTM C-1540, ALL STAINLESS STEEL, NEOPRENE GASKET, 3/8" HEX-HEAD SCREW & 80 LBS, INSULATION TORQUE.

HANGER SCHEDULE	
STEEL PIPE SIZE	SPACING OF SUPPORTS
1/2"	6'-0"
1/2" TO 1"	8'-0"
1-1/4" & LARGER	10'-0"

PLUMBING FIXTURE SCHEDULE													
NO.	DESCRIPTION	FIXTURES				ROUGH INS				SUPPORTS, CARRIERS	TYPE	MFR & MODEL NO.	ACCESSORIES AND OR NOTES
		MANUFACTURER	MODEL NO.	IW	SAN	V	CW	HW					
WC1	WATER CLOSET	AMERICAN STANDARD	MADERA 2857.128.020	4"	2"	1/2"	-	-	-	FLOOR MOUNTED	-	VITREOUS CHINA, ELONGATED FLOOR MOUNTED WATER CLOSET WITH 1.28 GPF, FLUSHVALVE. CONTRACTOR TO PROVIDE MANUAL ONLY FLUSH AND AMERICAN STANDARD ELGONATED SEAT 5901110T.020.	
WC2	WATER CLOSET	AMERICAN STANDARD	EDGEMERE 204AA.104	4"	2"	1/2"	-	-	-	FLOOR MOUNTED	-	VITREOUS CHINA, ELONGATED FLOOR MOUNTED WATER CLOSET WITH 1.28 GPF, TANK TYPE. CONTRACTOR TO PROVIDE MANUAL ONLY FLUSH AND AMERICAN STANDARD ELGONATED SEAT 5901110T.020.	
UR1	URINAL	AMERICAN STANDARD	WASHBROOK 6590503.020	2"	1-1/2"	1/2"	-	-	-	WALL-MOUNTED	-	VITREOUS CHINA, WHITE, 0.125 GPF HIGH EFFICIENCY WITH MANUAL FLUSHVALVE.	
L1	LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012.020	1-1/2"	1-1/2"	1/2"	1/2"	-	-	WALL-MOUNTED	J.R. SMITH	VITREOUS CHINA, RECTANGLE WALL MOUNT LAVATORY WITH OVERFLOW. (20"x18") CONTRACTOR TO PROVIDE HANGERS. CONTRACTOR TO PROVIDE AMERICAN STANDARD RELIANT 3 7385.003 FAUCET WITH 0.5 GPM, CHROME, CENTER SET, SINGLE HANDLE. MANUAL FAUCET ONLY, ASSE 1070 VALVE TO BE INCLUDED.	
MS1	MOP SINK	MUSTEE	63M	3"	1-1/2"	1/2"	3/4"	-	-	FLOOR-MOUNTED	-	FLOOR MOUNTED, 24"x24"x10" (HIGH) DURASTONE ONE PIECE MOLDED CONSTRUCTION. FURNISH COMPLETE WITH SERVICE SINK FAUCET #63.600A. HOSE AND HOSE HOLDER 365.700 AND MOP HANGER #63.600 ATTACHED TO 3"x24" S.S WALL PLATE, BUMPERS 363.401 AND DURAGAURD WALL GUARDS #67.242A.	
EW1	ELECTRIC WATER COOLER	OASIS	PG88BFSL	1-1/2"	1-1/2"	1/2"	-	-	-	WALL HUNG	-	REFRIGERATED DRINKING FOUNTAIN WITH MECHANICAL ACTIVATION SPORTS BOTTLE FILLER, BI-LEVEL, ADA, 8 GPH, NON-FILTERED. PROVIDE GREYSTONE FINISH.	
H81	HOSE BIBB	J.R. SMITH	5509QT	-	-	1/2"	-	-	-	WALL HUNG	-	BACKFLOW PREVENTER, STAINLESS STEEL CASE AND KEY OPERATED.	
KS1	SINK	AMERICAN STANDARD	185B.10321800.075	1-1/2"	1-1/2"	1/2"	1/2"	-	-	COUNTERTOP MOUNTED	-	23x18 SINGLE BOWL STAINLESS STEEL SINK, 1 HOLE, AMERICAN STANDARD 4931.380.002 PULL DOWN KITCHEN FAUCET, 7. PROVIDE PROFLO PFPT107 P-TRAP, PROFLO STRAINER PF14325S, PROFLO PFTP100 DRAIN EXTENSION AND PROFLO PFXCAZ32CL12 SUPPLY KIT. PROVIDE KITCHEN SINK WITH GARBAGE DISPOSAL REFER TO ARCHITECT DRAWINGS. MANUAL FAUCET ONLY.	
S1	SINK	AMERICAN STANDARD	18DB.10332200.075	1-1/2"	1-1/2"	1/2"	1/2"	-	-	COUNTERTOP MOUNTED	-	33x22 DOUBLE BOWL STAINLESS STEEL SINK, 1 HOLE, AMERICAN STANDARD 4931.380.002 PULL DOWN KITCHEN FAUCET, 7. PROVIDE PROFLO PFPT107 P-TRAP, PROFLO STRAINER PF14325S, PROFLO PFTP100 DRAIN EXTENSION AND PROFLO PFXCAZ32CL12 SUPPLY KIT. PROVIDE KITCHEN SINK WITH GARBAGE DISPOSAL REFER TO ARCHITECT DRAWINGS. MANUAL FAUCET ONLY.	

PLUMBING SPECIALTY EQUIPMENT SCHEDULE				
NO.	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES AND/OR NOTES
FD1	FLOOR DRAIN	JAY R. SMITH	2005Y-A-P050	ROUND TOP, CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD.
SA1	SHOCK ABSORBER	JOSAM	#75001-S	SHOCK ABSORBER WITH WROUGHT COPPER SHELL, HYDRO-PNEUMATIC AIR CUSHION, TRIPLE O-RING SEALED PISTON, WROUGHT COPPER ADAPTER AND MALE THREADED CONNECTION.
FCO	FLOOR CLEANOUT	JAY R. SMITH	4020 SERIES	CAST IRON BODY WITH ROUND ADJUSTABLE SCORIATED SECURED ROUND NICKEL BRONZE TOP.
WCO	LINE CLEAN OUT	JAY R. SMITH	4710 SERIES	STAINLESS STEEL SHALLOW COVER WITH CENTER SCREW.

WATER HEATER SCHEDULE						
FIXTURE	MANUFACTURER AND MODEL NO.	STORAGE CAPACITY (Gallons)	RECOVERY CAPACITY	FIRST HOUR GPH	ELECTRIC AND GAS REQUIREMENTS	APPROXIMATE DIMENSIONS
WH1	MFR: BRADFORD WHITE	100	GPH: 261	GPH: 361	CFH: 199	HEIGHT: 60"
	MODEL NO: EF-100T-199E-3N(A)		*F RISE: 90	*F RISE: 90	VOLT: 120	WIDTH: 28-1/4"

SUMP PUMP SCHEDULE										
FIXTURES	MANUFACTURER AND MODEL NO.	SYSTEM CAPACITY	PUMP				MOTOR			NOTES
			SUCTION PRESSURE	DISCHARGE PRESSURE	# OF MOTORS	MOTOR HP	MOTOR RPM	V/PH/HzS		
SP1	SE-50	50 GPM	-	20 FT HD	1	1/2	3600	120/3/60	PUMP SHALL BE OIL MINDER OR INCLUDE FEATUR TO SHUT OFF IN DETECTION OF OIL, PROVIDE CHECK VALVE	

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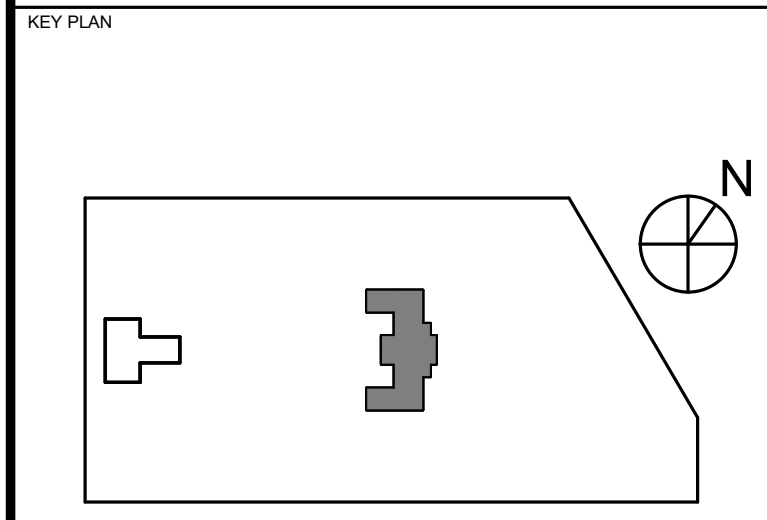
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1515 ARCH STREET  
5TH FLOOR, ONE PARKWAY BUILDING

PROJECT TITLE  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



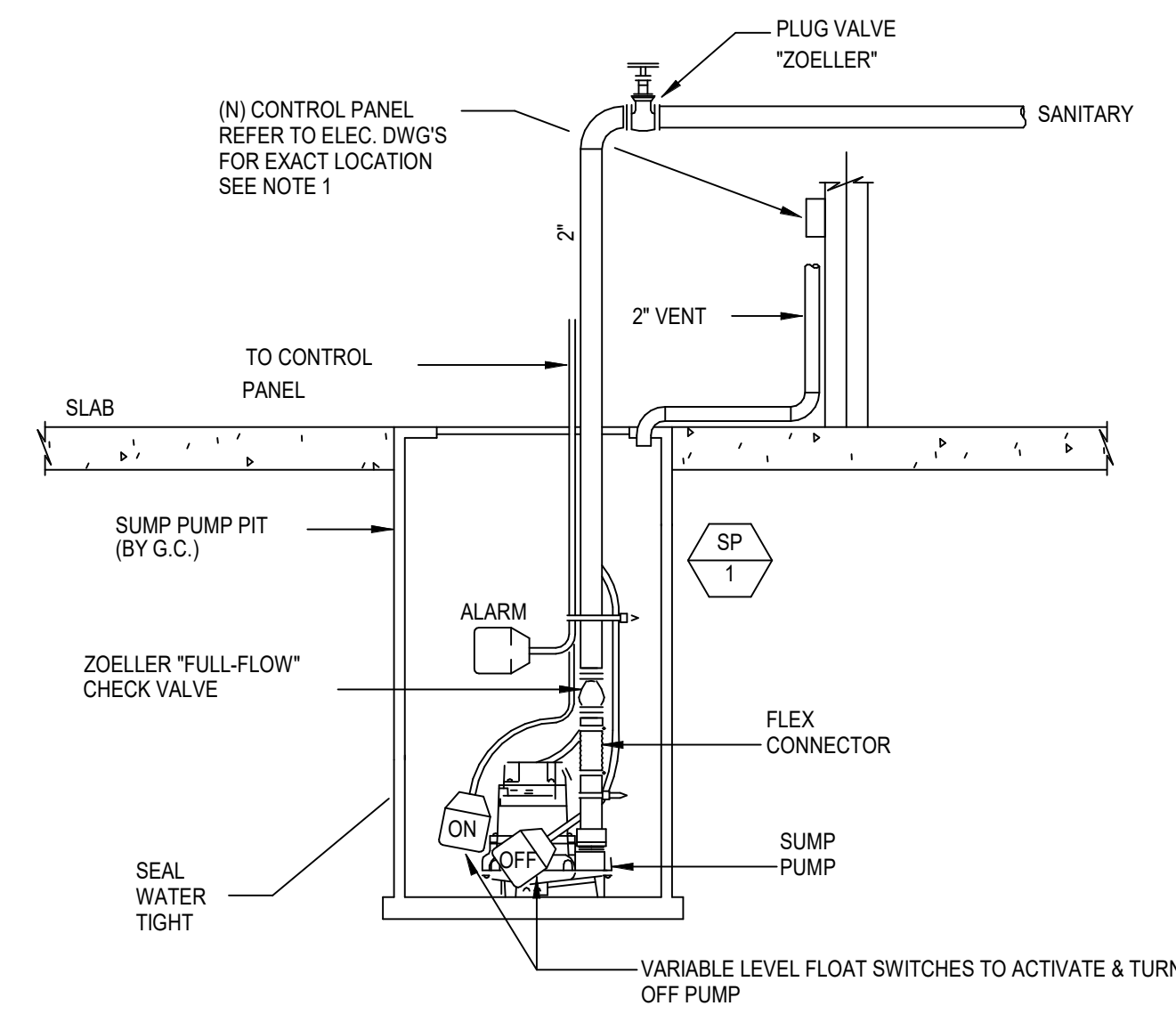
DRAWING TITLE  
PLUMBING SCHEDULES

PROJECT NO. KMLX21003  
DRAWING NO. P500-R.2

DATE 04/21/2023  
SCALE AS NOTED  
DRAWN BY LJP  
CHECKED BY RHC

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PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

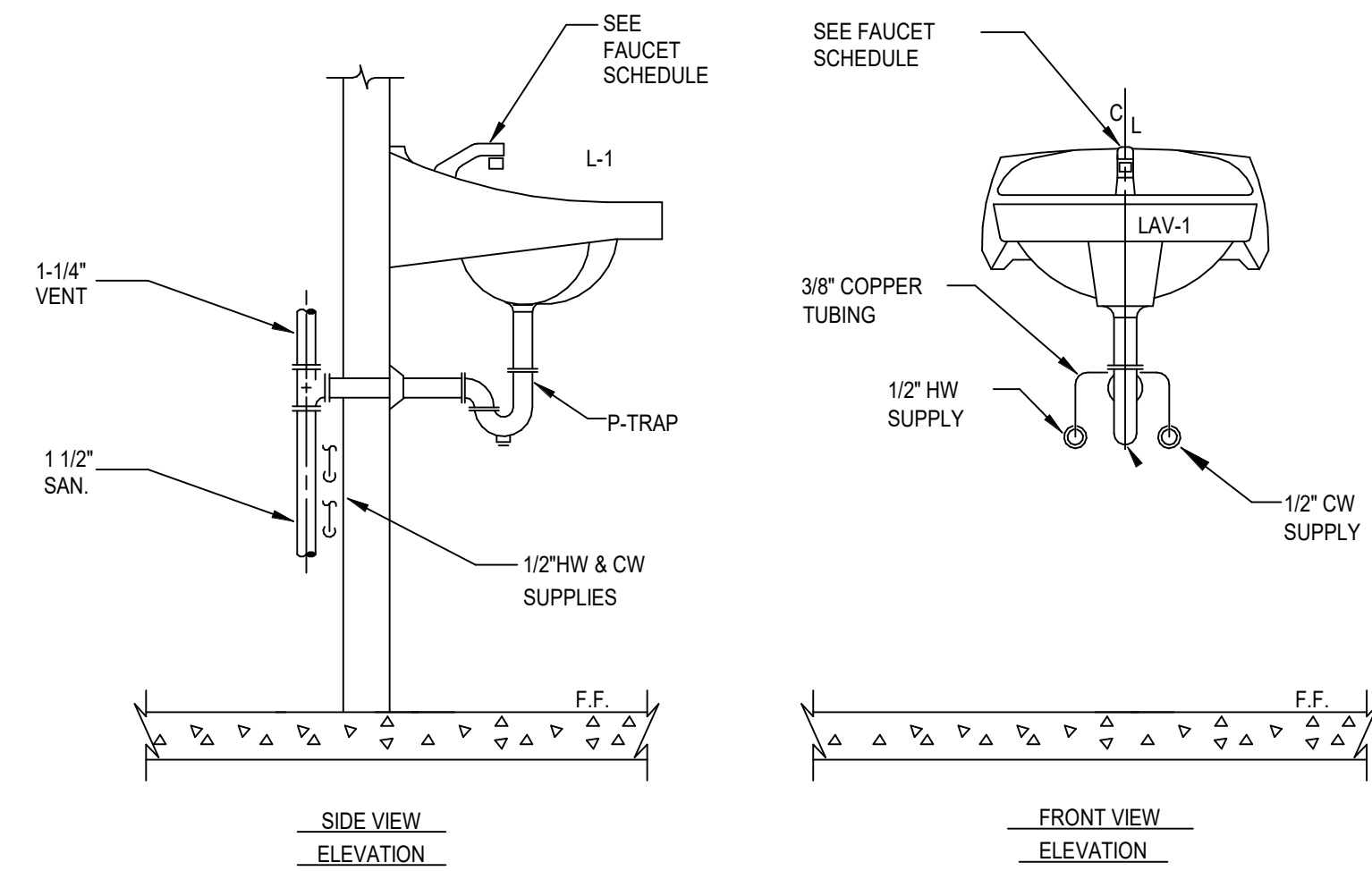


1 DETAIL - ELEVATOR SUMP PUMP

NOT TO SCALE

NOTES:

1. PLUMBING CONTRACTOR TO COORDINATE LOCATION OF SUMP PUMP CONTROL PANEL WITH THE ELECTRICAL DRAWINGS. PLUMBING CONTRACTOR TO WALL MOUNT CONTROL PANEL WITH THE ELECTRICAL CONTRACTOR MAKING THE FINAL CONNECTIONS.
2. PLUMBING CONTRACTOR TO INSTALL A CHECK VALVE ON THE DISCHARGE PIPING AT LEAST 12" ABOVE OUTLET OF THE PUMP.

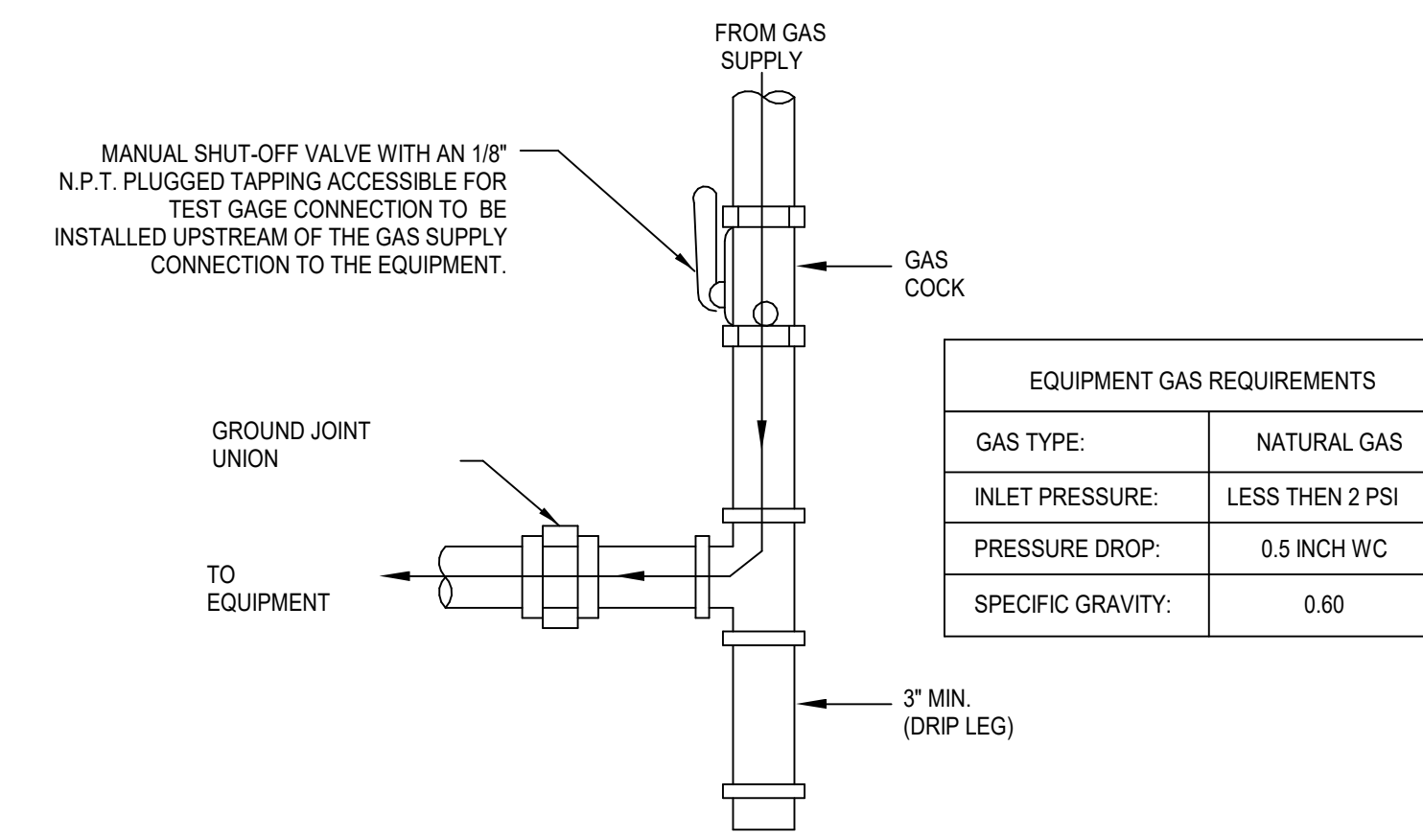


2 DETAIL - LAVATORY

NOT TO SCALE

NOTE:

1. PLUMBING CONTRACTOR TO PROVIDE & INSTALL ALL NEEDED PIPING, FITTINGS, TAIL PIECE, WATER SUPPLIES AND SHUT OFF VALVES FOR A COMPLETE AND FUNCTIONAL SYSTEM.



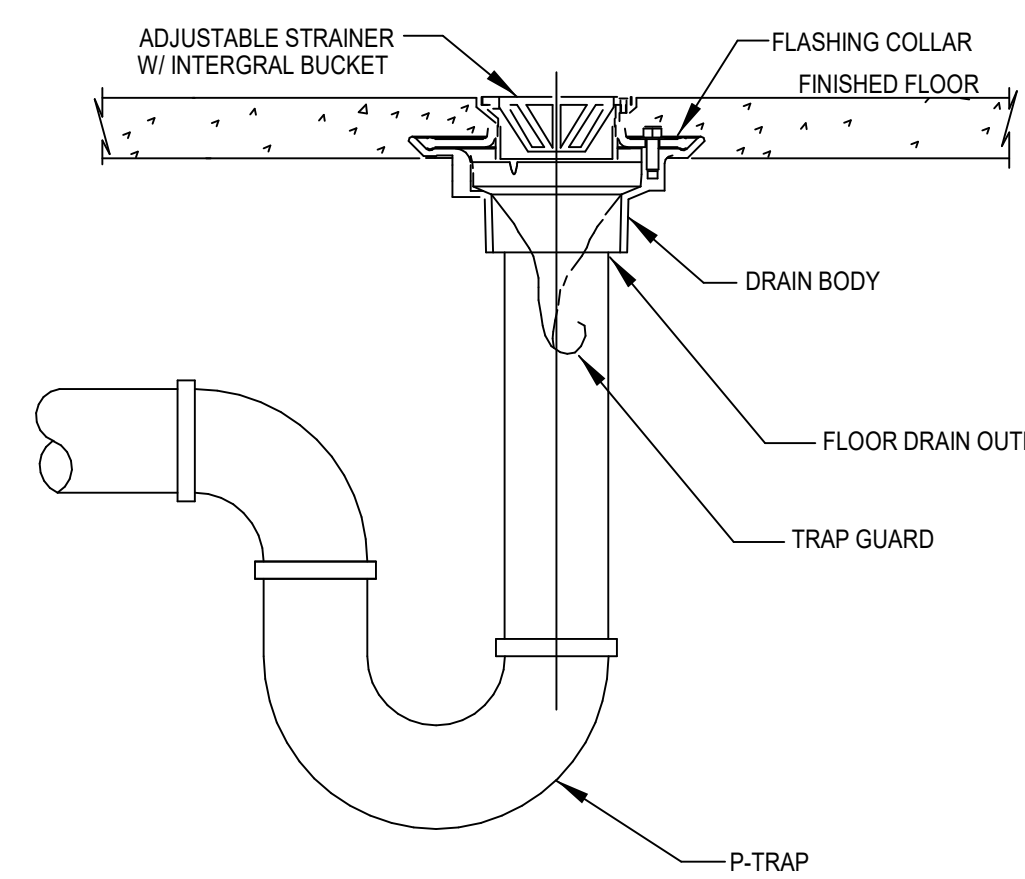
3 DETAIL - NATURAL GAS SEDIMENT TRAP

NOT TO SCALE

NOTE:

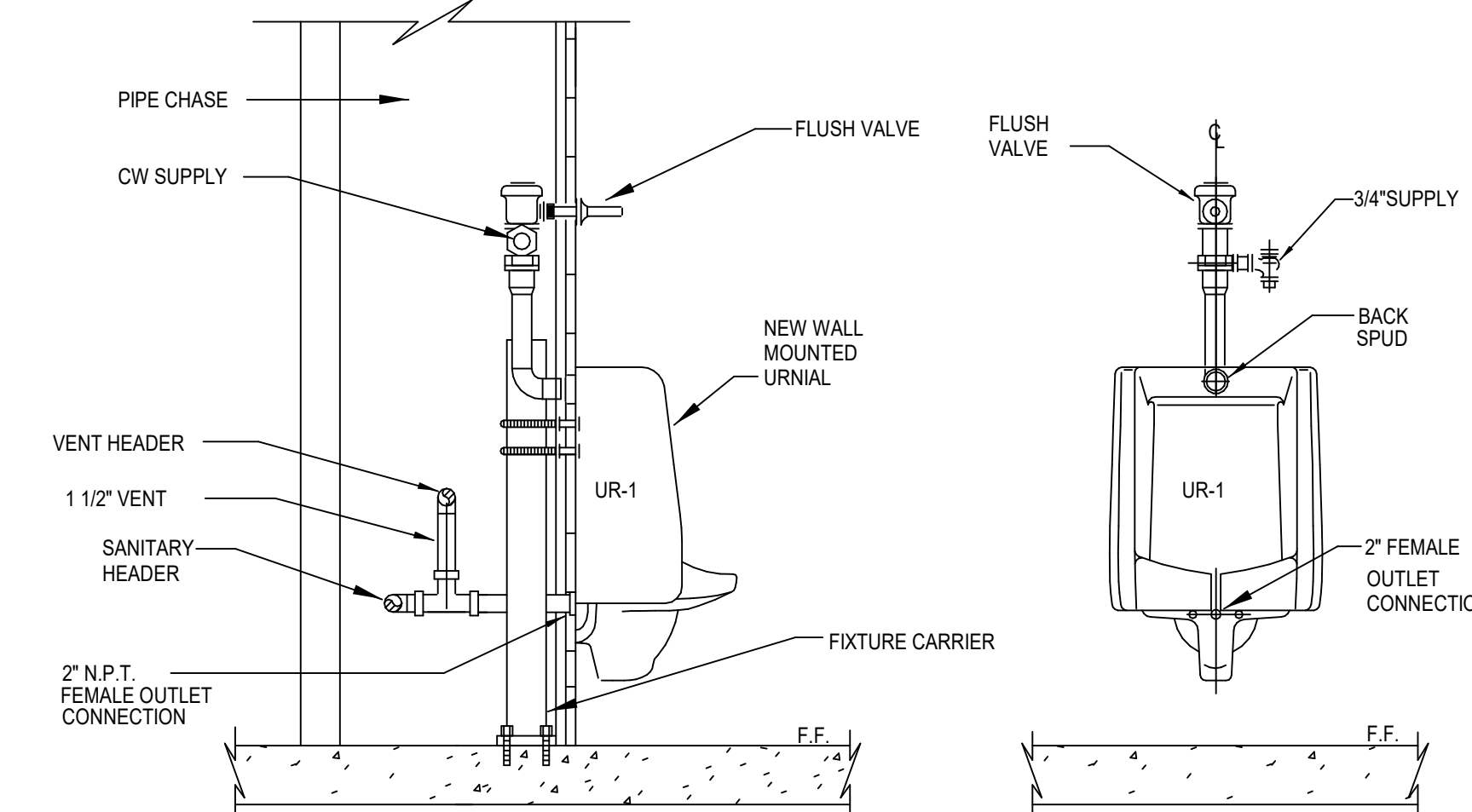
1. PLUMBING CONTRACTOR TO VERIFY THE GAS PRESSURE BEING SUPPLIED BY NATURAL GAS AUTHORITY AND IF REQUIRED, CONTRACTOR WILL FURNISH IN-LINE TYPE PRESSURE REGULATOR'S AT EQUIPMENT.

EQUIPMENT GAS REQUIREMENTS	
GAS TYPE:	NATURAL GAS
INLET PRESSURE:	LESS THEN 2 PSI
PRESSURE DROP:	0.5 INCH WC
SPECIFIC GRAVITY:	0.60



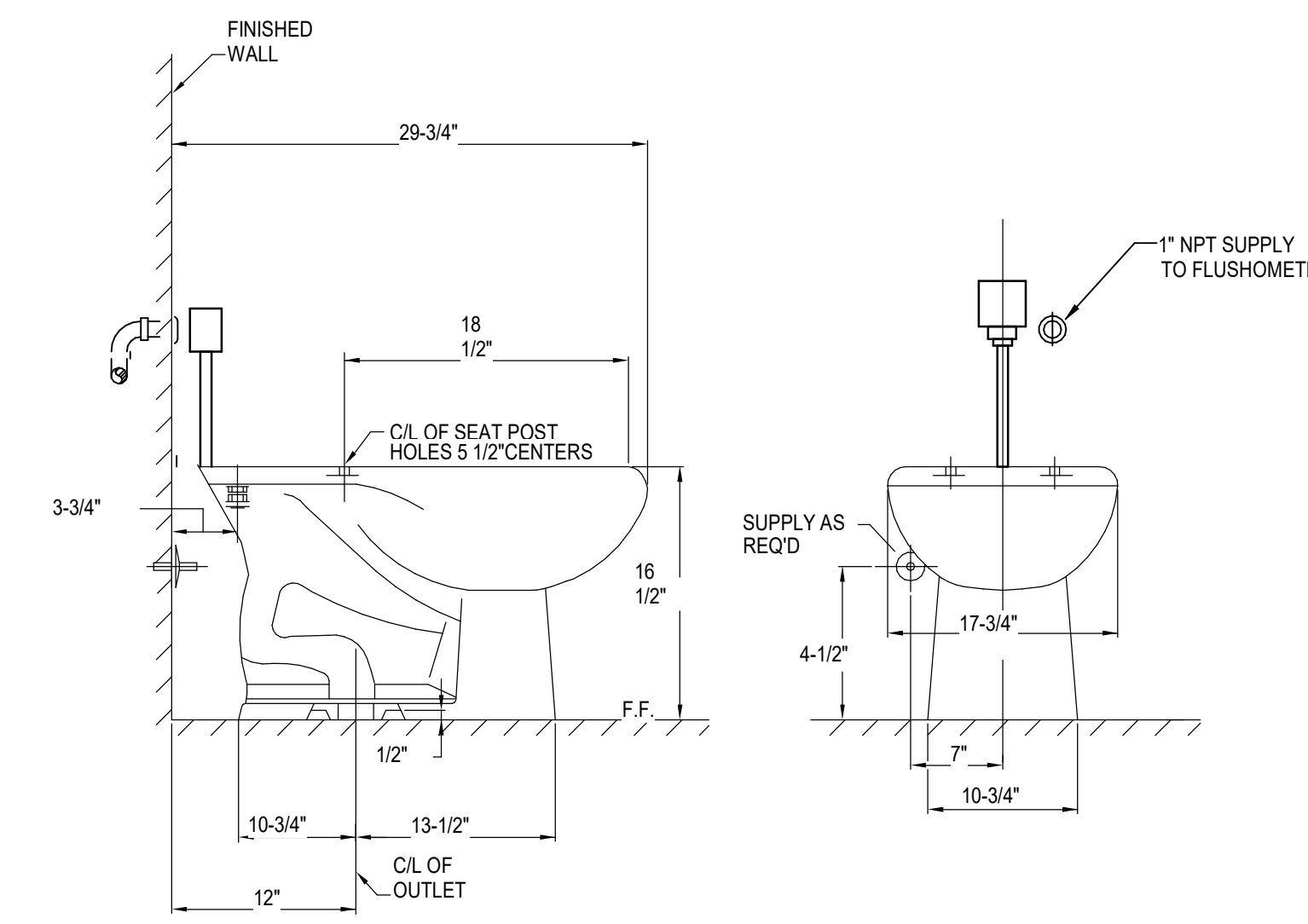
4 DETAIL - FLOOR DRAIN TRAP PRIMER

NOT TO SCALE



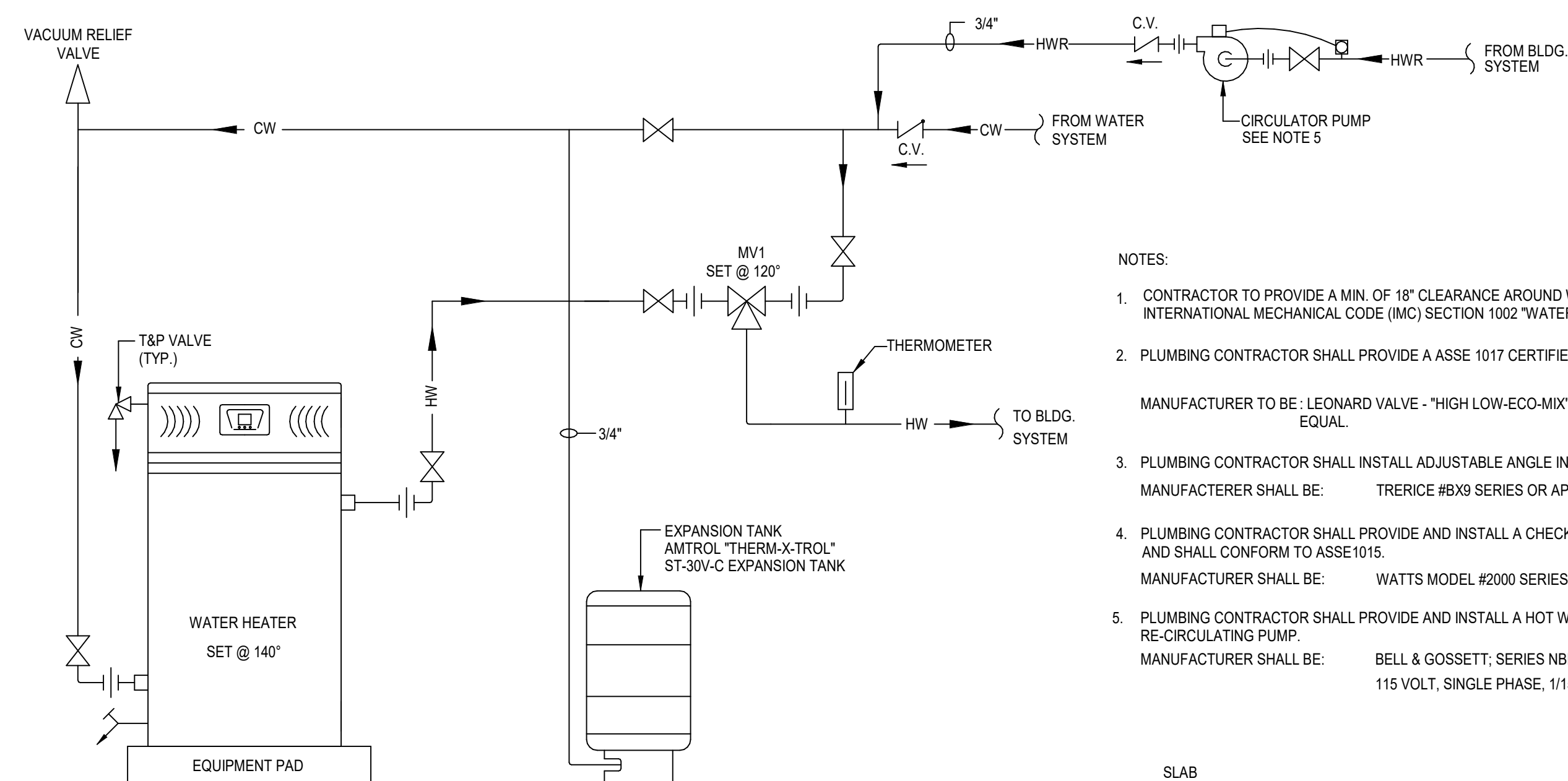
5 DETAIL - URINAL

NOT TO SCALE



6 DETAIL - WATER CLOSET

NOT TO SCALE



7 DETAIL - TYPICAL WATER HEAT WITH HOT WATER RECIRCULATION

NOT TO SCALE

NOTES:

1. CONTRACTOR TO PROVIDE A MIN. OF 18" CLEARANCE AROUND WATER HEATER PER INTERNATIONAL MECHANICAL CODE (IMC) SECTION 1002 "WATER HEATERS".
2. PLUMBING CONTRACTOR SHALL PROVIDE A ASSE 1017 CERTIFIED THERMOSTATIC MIXING VALVE (MV).  
MANUFACTURER TO BE: LEONARD VALVE - "HIGH LOW-ECO-MIX" MODEL #TM-920B-LT-DT OR APPROVED EQUAL.
3. PLUMBING CONTRACTOR SHALL INSTALL ADJUSTABLE ANGLE INDUSTRIAL THERMOMETER.  
MANUFACTURER SHALL BE: TRERICE #8X9 SERIES OR APPROVED EQUAL.
4. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A CHECK-VALVE ASSEMBLY (CV) AND SHALL CONFORM TO ASSE1015.  
MANUFACTURER SHALL BE: WATTS MODEL #2000 SERIES OR APPROVED EQUAL.
5. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A HOT WATER RETURN RE-CIRCULATING PUMP.  
MANUFACTURER SHALL BE: BELL & GOSSETT; SERIES NBF-25 W/ AUTOMATIC TIMER #13210; 115 VOLT, SINGLE PHASE, 1/15 HP, 1.1 AMP OR APPROVED EQUAL.

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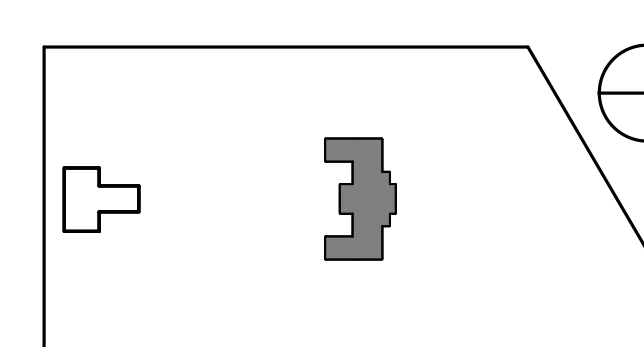
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PROJECT TITLE

KINGSESSING RECREATION  
CENTER BUILDING AND SITE  
IMPROVEMENTS - PACKAGE 2

KEY PLAN



DRAWING TITLE

PLUMBING DETAILS

PROJECT NO.

KLMLX21003

DRAWING NO.

P600-R.2

DATE

04/21/2023

SCALE

AS NOTED

DRAWN BY:

LJP

CHECKED BY:

RHG

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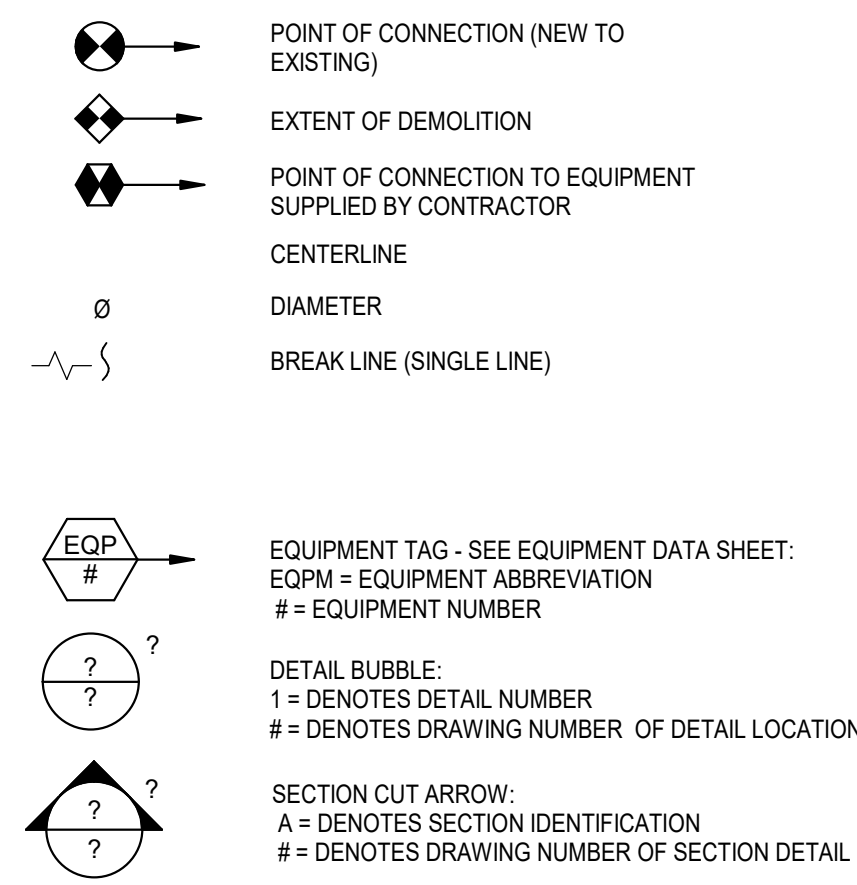
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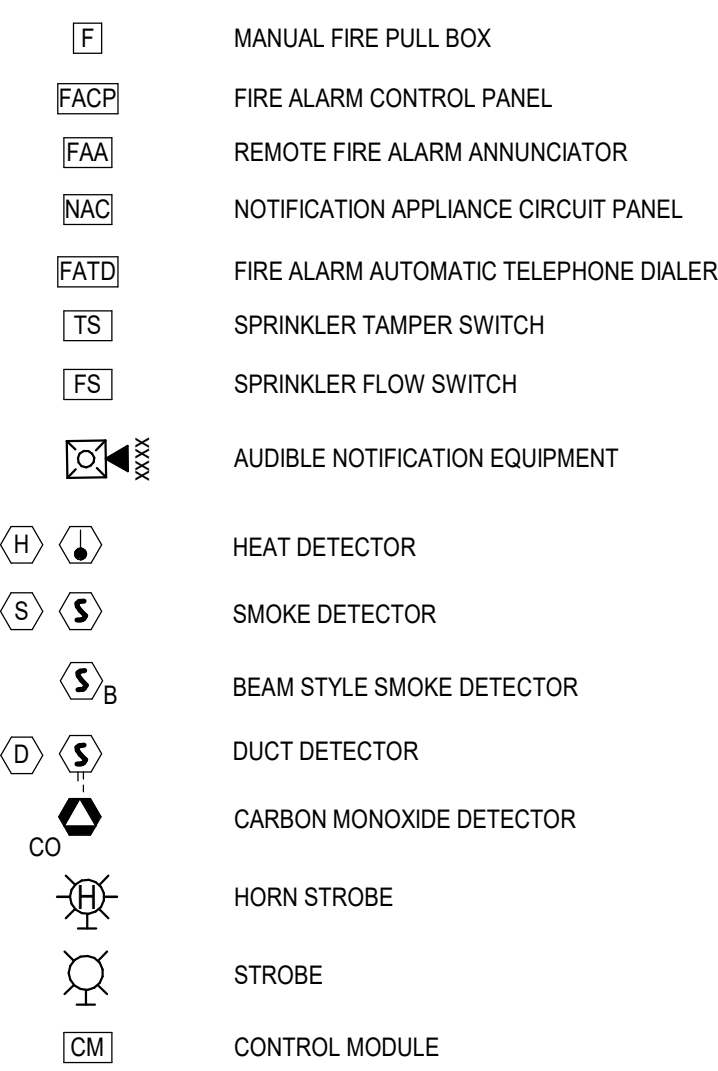
## GENERAL NOTES

- RENOVATE EXISTING FIRE ALARM CONTROL PANEL AND DEVICES IN AREAS UNDER CONSTRUCTION INDICATED ON THE DOCUMENTS TO PROVIDE A COMPLETE AND FUNCTIONING FIRE ALARM CONTROL SYSTEM. COORDINATE MODIFICATIONS WITH EXISTING FIRE ALARM VENDOR.
- COORDINATE LOCATIONS OF FIRE/SMOKE DAMPERS, DUCT DETECTORS AND REQUIRED SMOKE DETECTORS WITH THE HEATING VENTILATION AND AIR CONDITIONING DOCUMENTS FOR LOCATION AND QUANTITY OF DEVICES.
- MODIFY EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA72, MANUFACTURER'S RECOMMENDATIONS, ALL APPLICABLE LOCAL BUILDING CODES AND OWNER'S INSURANCE UNDERWRITER'S REQUIREMENTS.
- FIRE ALARM SYSTEM MATERIALS SHALL BE UL LISTED AND FM GLOBAL APPROVED.
- COORDINATE THE INSTALL OF FIRE ALARM DEVICES AND WIRING WITH ALL TRADES AND DRAWINGS PRIOR TO COMMENCING INSTALLATION.
- THE CONTRACTOR SHALL CONTACT THE BUILDING ENGINEER AND BUILDING OWNER, TO ARRANGE ACCEPTANCE OF CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL OBTAIN IN WRITTEN FORM AN ACCEPTANCE OF THE CONSTRUCTION SCHEDULE FOR DEMOLITION AND NEW WORK. THE EXISTING FIRE ALARM SYSTEM DURING THE ENTIRE CONSTRUCTION WORK MUST BE OPERATIONAL. REMOVAL OF OLD DEVICES OR RELOCATION AND RECONNECTION SHALL BE COMPLETED ONE DAY BEFORE SCHEDULED TEST. PROVIDE FIRE WATCHMAN FOR ANY PERIOD OF TIME WHEN THE EXISTING FIRE ALARM SYSTEM IS DOWN WHILE THE BUILDING IS OCCUPIED. ARRANGE FOR TEST AND ACCEPTANCE IN SUCH A WAY THAT THERE WILL BE NO EXTENDED TIME INTERVAL BETWEEN COMPLETION OF CONSTRUCTION AND FIRE ALARM TEST AND APPROVAL.
- MINIMUM CONDUIT SIZE FOR BRANCH FIRE ALARM CIRCUIT SHALL BE 3/4".
- PROVIDE ALL SYSTEM COMPONENTS REQUIRED. PROVIDE COMPONENTS OF THE SAME MANUFACTURER AND MODEL NUMBERS COMPLIANT WITH THE EXISTING FIRE ALARM SYSTEM AS NOTED IN THESE DOCUMENTS.
- INSTALL, TEST AND OBTAIN FIRE MARSHAL APPROVAL OF RENOVATED FIRE ALARM SYSTEM.
- MODIFY EXISTING FIRE ALARM SYSTEM TO MEET AND EXCEED REQUIREMENTS SHOWN IN THESE CONSTRUCTION DOCUMENTS.
- THE SYSTEM SHALL BE CONTINUOUSLY ELECTRICALLY SUPERVISED AGAINST FAILURE OF ANY COMPONENTS, APPLIANCES, WIRING, SWITCHES, ELECTRICAL CONTACTS, ECT. FIRE ALARM CONTRACTOR SHALL DETECT OPENS, SHORTS, ECT. WHICH IMPAIR THE FUNCTION OF THE SYSTEM. BOTH A VISUAL AND AUDIBLE TROUBLE SIGNAL SHALL OPERATE AT THE FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATOR PANEL. FIRE ALARM CONTROL PANEL SHALL COMMUNICATE TO CENTRAL STATION VIA COMMUNICATION LINE.
- PROVIDE MINIMUM BATTERY BACKUP FOR FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL CODES AND IN ACCORDANCE WITH NFPA 72.
- NUMBER OF CONDUCTORS, SIZE, TYPE AND COLOR CODE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL PER MANUFACTURER'S WIRING DIAGRAMS.
- ALL WIRING SHALL BE INSTALLED IN METALLIC TUBING OR METAL CONDUITS. THE INSTALLATION SHALL BE IN A MANNER WHICH WILL AFFORD THE MAXIMUM PROTECTION AGAINST THE EFFECTS OF FIRE AND OTHER PHYSICAL OR ACCIDENTAL DAMAGE. WIRING SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
- POWER SUPPLY AND FIRE ALARM CIRCUIT CONDUCTORS SHALL BE PERMITTED IN THE SAME CABLE, RACEWAY, JUNCTION BOX OR ENCLOSURE ONLY WHERE CONNECTED TO THE SAME EQUIPMENT.
- PROVIDE DUCT SMOKE DETECTORS IN THE AHU RETURN AIR DUCTS AND/OR IN SUPPLY AIR AS INDICATED ON MECHANICAL DRAWINGS AND/OR FIRE ALARM DRAWINGS. PROVIDE INTERLOCK WITH EACH AHU'S SUPPLY AIR FAN MOTOR STARTER AND/OR THE RETURN AIR FAN STARTERS TO SHUT DOWN FANS ON INITIATION OF DUCT SMOKE DETECTOR OR ALARM SIGNAL. ACTIVATION OF DUCT SMOKE DETECTOR SHALL SEND SIGNAL TO FIRE ALARM SYSTEM. ALL DUCT SMOKE DETECTORS INSTALLED NOT IN DIRECT VIEW OR READILY ACCESSIBLE LOCATION SHALL BE INSTALLED WITH REMOTE LED INDICATOR AND TEST FEATURES. THE REMOTE LED INDICATOR WITH TEST SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW RESPECTIVE DUCT SMOKE DETECTOR OR ON THE WALL WITH DIRECTORY OR PLAN OF SMOKE DETECTOR LOCATION WHERE THERE IS NO CEILING. THE DUCT SMOKE DETECTOR SHALL BE PROGRAMMABLE TO PROVIDE A SUPERVISORY SIGNAL.
- ALL HEAT DETECTORS SHALL BE OF THE FIXED TEMPERATURE TYPE. HEAT DETECTORS INSTALLED IN NORMALLY LOCKED ROOMS SHALL BE PROVIDED WITH A REMOTE LED INDICATOR. THE REMOTE LED INDICATOR SHALL BE INSTALLED ON THE WALL NEAR ACCESS DOOR WITH DIRECTORY OR PLAN OF HEAT DETECTOR LOCATION.
- ALL FIRE ALARM SYSTEM FIELD RELAYS CONTROLLING OR DEACTIVATING ANY DEDICATED SECURITY DEVICES OR POWER CONTROLS DEVICES SHALL BE INSTALLED WITHIN 3 FEET OF THE CONTROL DEVICE.
- THE FOLLOWING SPECIFICATIONS APPLY TO ALL VISUAL ALARMS:
  - THE LAMP SHALL BE A NEON STROBE TYPE OR EQUIVALENT
  - THE COLOR SHALL BE CLEAR OR NOMINAL WHITE (IE UNFILTERED OR CLEAR FILTERED WHITE LIGHT)
  - THE MAXIMUM PULSE DURATION SHALL BE TWO-TENTHS OF ONE SECOND (0.2 SECONDS) WITH A MAXIMUM DUTY CYCLE OF 40 PERCENT. THE PULSE DURATION IS DEFINED AS THE TIME INTERVAL BETWEEN INITIAL AND FINAL POINTS OF 10 PERCENT OF MAXIMUM LIGHT.
  - THE INTENSITY WILL BE ADJUSTABLE BETWEEN 15 AND 110 CANDLEAS AS REQUIRED.
  - THE FLASH RATE SHALL BE A MINIMUM OF 1 HZ AND A MAXIMUM OF 3HZ.
- REINSTALL AREA SMOKE DETECTORS AS SHOWN ON FLOOR PLANS.
- COORDINATE WORK WITH ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT SCHEDULED TO BE INTERLOCKED WITH THE MODIFIED EXISTING FIRE ALARM SYSTEM. PROVIDE ALL RE-PROGRAMMING REQUIRED.
- THE SYSTEM SHALL BE INSTALLED SO THAT TROUBLE CAN BE READILY TRACED TO A SPECIFIC FLOOR AND/OR DEVICE.
- PROVIDE AND ARRANGE THE AUDIBLE AND VISUAL ANNUNCIATION DEVICE CIRCUITS SO THERE SHALL BE A MINIMUM OF TWO CIRCUITS PER ZONE ON EVERY FLOOR AND THAT LOSS OF ONE CIRCUIT WILL NOT AFFECT MORE THAN 50% OF THE DEVICES IN A ZONE.
- MINIMUM CONDUIT SIZE FOR BRANCH FIRE ALARM CIRCUITS SHALL BE 3/4" EMT WITH COMPRESSION FITTINGS. ALL FA WIRING CONDUITS AND FITTINGS MUST BE RED OR PAINTED RED.
- LINE VOLTAGE CIRCUITS AND LOW VOLTAGE CIRCUITS SHALL RUN IN SEPARATE CONDUITS.
- ALL FIRE ALARM CABINETS AND TERMINAL BOXES SHALL BE PAINTED RED.
- PROVIDE ALL SYSTEM COMPONENTS AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE MANUFACTURER TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL FIRE ALARM STROBES IN OPEN AREAS, GARAGES, CORRIDORS, LOBBIES AND RETAIL AREAS SHALL BE SYNCHRONIZED SO THE TOTAL FREQUENCY WILL NOT EXCEED 3HZ IN ANY SINGLE AREA OF VIEW.
- FIRE ALARM CIRCUIT AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC.
- SUBMITTAL FOR FIRE ALARM SHOP DRAWINGS SHALL INCLUDE POINTS LIST WITH ALL ADDRESSES WRITTEN ON THE DRAWINGS (RISER AND FLOOR PLAN) NEXT TO EVERY DEVICE.
- RENOVATED FIRE ALARM MATRIX SHALL MATCH EXISTING.
- FIRE ALARM ABANDONED CABLES SHALL BE REMOVED.
- ALL WIRING SHALL BE COLOR CODED AND LABELED IN EVERY TERMINATION BOX.
- WIRING/CONDUCTOR MATERIAL SHALL BE SOLID OR STRANDED COPPER ONLY.
- NON-POWER LIMITED FIRE ALARM CIRCUIT TYPES NPLFP, NPLFR AND NPLF SHALL NOT BE INSTALLED EXPOSED IN DUCTS OR PLENUMS. THE CABLE TYPE NPLFP MAY BE USED ABOVE SUSPENDED CEILINGS.
- CABLES INSTALLED IN VERTICAL RUNS PENETRATING MORE THAN ONE FLOOR SHALL BE TYPE NPLFR. CABLE SHALL BE SUITABLE FOR RISER OR PLENUM USE.
- VERTICAL CABLE SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 18'.
- RUNS IN METAL CONDUIT OR RMC PASSING THROUGH A FLOOR OR WALL TO THE HEIGHT OF 7' ABOVE THE FLOOR SHALL BE ADEQUATELY PROTECTED FROM PHYSICAL DAMAGE BY THE BUILDING STRUCTURE OR SOLID METAL GUARD.
- FIRE ALARM WIRING SHALL COMPLY WITH NEC 760.130(B). PLENUM RATED FIRE ALARM WIRING OUTSIDE OF CONDUIT IS ACCEPTABLE IN THE CEILING SPACES ABOVE THE OFFICE. FA WIRING SHALL BE IN CONDUIT IN EXPOSED AREAS.
- CONNECT REINSTALLED AND NEW FIRE ALARM DEVICES TO THE EXISTING ZONE WITHIN THAT AREA OF WORK.
- ALL FIRE ALARM DEVICES SHALL BE LOCATED IN CENTER OF CEILING TILES UNLESS NOTED OTHERWISE AND APPROVED.
- BEFORE ANY WORK STARTS, SUBMIT AND OBTAIN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION (AHJ) OF THE INFORMATION, DATA, CALCULATIONS, DRAWINGS AND CATALOG CUTS AS REQUIRED BY NFPA 72 AND OTHER REQUIREMENTS AS MAY BE PROMULGATED BY AHJ.
- PROVIDE ALL SYSTEM COMPONENTS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BY THE MANUFACTURER.
- PROVIDE DEDICATED 120V, 1PH, 20A CIRCUITS FOR EACH EXTENDER FIRE ALARM PANEL.
- PROVIDE 120V, 20A, 1Ø CIRCUITS TO FEED FACP. DERIVE CIRCUITS FROM EMERGENCY POWER SOURCE AS SHOWN ON THE DRAWING.
- WHERE THERE ARE A NUMBER OF POWER REQUIRING DEVICES, SUCH AS SMOKE DETECTORS, FAN RELAYS, DOOR HOLDERS, STROBE LIGHTS AND SMOKE DAMPER OPERATORS INSTALLED IN A CIRCUIT, GROUP IN NUMBERS SO POWER REQUIRED DOES NOT EXCEED 80% OF MANUFACTURER'S POWER SUPPLY RATING. PROVIDE EXTRA CAPACITY OF POWER SUPPLIES REQUIRED TO FULFILL THAT REQUIREMENT. IN ADDITION PROVIDE EXTRA BRANCH WIRING OR LARGER SIZE WIRING TO ALLEVIATE VOLTAGE DROP. INSTALL ALL DEVICES IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- ALL WIRING CONNECTIONS SHALL BE MADE IN TERMINATION CABINETS OR FA DEVICE JUNCTION BOX ONLY. WIRING SPLICES OR T-TAPS ARE NOT ALLOWED.
- END OF LINE RESISTOR WHERE USED SHALL BE INSTALLED IN THE FLOOR TERMINAL CABINET. END OF LINE RESISTOR SHALL BE ADEQUATELY LABELED TO DISTINGUISH FROM OTHER COMPONENTS OF THE FA SYSTEM. THE WIRING CONNECTION SHALL BE POINT TO POINT FROM DEVICE TO DEVICE.
- ALL SMOKE DETECTORS INSTALLED IN NORMALLY LOCKED ROOMS SHALL BE PROVIDED WITH THE REMOTE LED INDICATOR. THE REMOTE LED INDICATOR SHALL BE INSTALLED ON THE WALL NEAR ACCESS DOOR WITH DIRECTORY OR PLAN OF SMOKE DETECTOR LOCATION.
- AREA SMOKE DETECTORS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS.
- REFER TO FIRE ALARM SYSTEM MATRIX FOR SEQUENCE OF OPERATION.
- COORDINATE WORK WITH ALL ELECTRICAL, MECHANICAL, OR PLUMBING EQUIPMENT SCHEDULED TO BE INTERLOCK WITH THE NEW FIRE ALARM SYSTEM.
- PROVIDE REQUIRED CLEARANCE AROUND THE PANELS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND NEC.
- THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED SO ANY DAMAGE TO ANY TERMINAL UNIT WILL NOT RENDER MORE THAN ONE CIRCUIT LIMITED TO THE SINGLE ZONE OF THE ELEMENT INOPERATIVE. NO MORE THAN 50% OF FIRE ALARM DEVICES CAN BE INOPERABLE PER ZONE UPON THE CIRCUIT FAILURE.
- PROVIDE 1" CONDUIT FROM FACP TO ELEVATOR MACHINE ROOM FOR CONTROL SIGNAL AND FIRE ALARM INTERFACE. PROVIDE WIRING PER EQUIPMENT SUPPLIER.
- PROVIDE MINIMUM 3/4" CONDUIT AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO ACCESS CONTROL SYSTEM FOR FIRE ALARM INTERFACE WITH ELECTRIC DOOR LOCKS. ALL STAIR AND OTHER ELECTRIC DOOR LOCKS IN THE PATH OF THE EGRESS SHALL UNLOCK SIMULTANEOUSLY UPON ACTIVATION OF THE FIRE ALARM SYSTEM OR UPON LOSS OF PRIMARY POWER TO THE FIRE ALARM SYSTEM. PROVIDE CONDUIT AND CONTROL WIRING PER EQUIPMENT SUPPLIER REQUIREMENTS. PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE BETWEEN THE FIRE ALARM AND SECURITY SYSTEM. AN AUXILIARY RELAY CONNECTED TO FIRE ALARM SYSTEM TO UNLOCK DESIGNATED DOORS SHALL BE LOCATED WITHIN 3' OF THE CONTROL DEVICE.
- PROVIDE MINIMUM 3/4" CONDUIT AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO DOOR HOLDER CONTROLLER FOR FIRE ALARM INTERFACE. PROVIDE CONDUIT AND CONTROL WIRING PER EQUIPMENT SUPPLIER REQUIREMENTS. ALL DOOR HOLDERS SHALL BE RELEASE SIMULTANEOUSLY UPON ACTIVATION OF THE FIRE ALARM SYSTEM. PROVIDE SMOKE DETECTOR AT EACH SMOKE DOOR WHERE SHOWN ON THE DRAWING. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE. AN AUXILIARY RELAY CONNECTED TO FIRE ALARM SYSTEM SHALL BE LOCATED WITHIN 3' OF CONTROL DEVICE.
- PROVIDE MINIMUM 1/2" CONDUIT AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO HVAC SHUTDOWN EQUIPMENT FOR FIRE ALARM INTERFACE. PROVIDE CONDUIT AND WIRING PER EQUIPMENT SUPPLIER REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE BETWEEN THE FIRE ALARM SYSTEM AND BUILDING MANAGEMENT SYSTEM. AN AUXILIARY RELAY CONNECTED TO THE FIRE ALARM SYSTEM SHALL BE LOCATED WITHIN 3' OF THE CENTRAL DEVICE.
- PROVIDE EXTERIOR HORN AND VISUAL DEVICE ON EXTERIOR OF THE BUILDING AT LOCATION OF FIRE DEPARTMENT ACCESS. COORDINATE EXACT LOCATION WITH DIRECTOR OF FACILITIES AND FIRE MARSHAL.

## GENERAL SYMBOLS



## FIRE ALARM SYMBOLS



## CODE COMPLIANCE

IBC	2021 INTERNATIONAL BUILDING CODE
NFPA 70	2020 NATIONAL ELECTRIC CODE
NFPA 72	2022 NATIONAL FIRE ALARM CODE
NFPA 90A	2022 STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEM
NFPA 101	2021 LIFE SAFETY CODE

## REVISIONS

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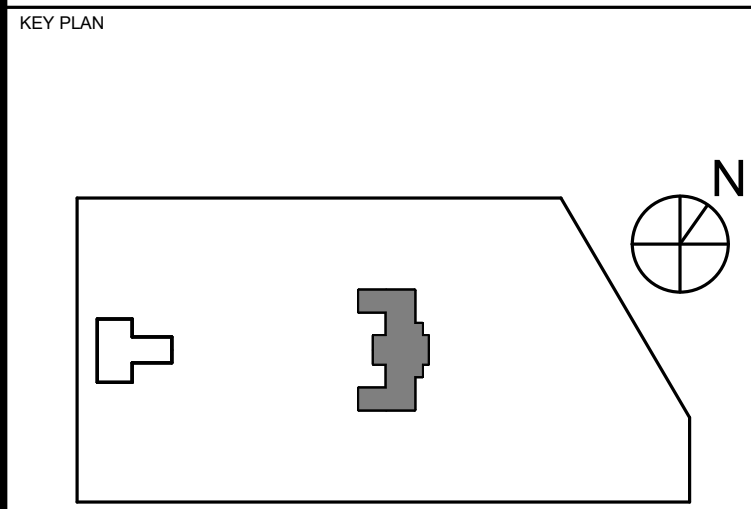
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**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



**DRAWING TITLE**  
FIRE ALARM INDEX SHEET

**PROJECT NO.** KLMLX21003  
**DRAWING NO.** FA001-R.2

**DATE** 04/21/2023  
**SCALE** AS NOTED  
**DRAWN BY:** NSL  
**CHECKED BY:** JR

**NOTE:** ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

FIRE ALARM DRAWING LIST-R	
SHEET NUMBER	DRAWING TITLE
FIRE ALARM	
FA001-R.2	FIRE ALARM INDEX SHEET
FA100-R.2	FIRE ALARM DEMOLITION - LOWER LEVEL BASE SCOPE
FA100B-R.2	FIRE ALARM DEMOLITION - LOWER LEVEL DEDUCT ALT.
FA101-R.2	FIRE ALARM DEMOLITION - FIRST FLOOR
FA102B-R.2	FIRE ALARM DEMOLITION - SECOND FLOOR
FA200-R.2	FIRE ALARM PROPOSED - LOWER LEVEL BASE SCOPE
FA200B-R.2	FIRE ALARM PROPOSED - LOWER LEVEL DEDUCT ALT.
FA200C-R.2	FIRE ALARM PROPOSED - LOWER LEVEL ADD ALTERNATE
FA201-R.2	FIRE ALARM PROPOSED - FIRST FLOOR
FA202B-R.2	FIRE ALARM PROPOSED - SECOND FLOOR
FA203-R.2	FIRE ALARM PROPOSED - ATTIC

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**06/02/2023**

**DEMOLITION NOTES**

1 EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.

**REVISIONS**

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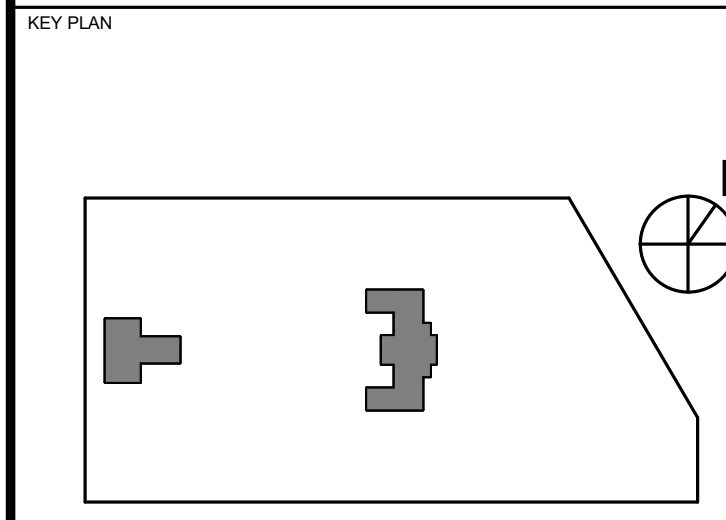
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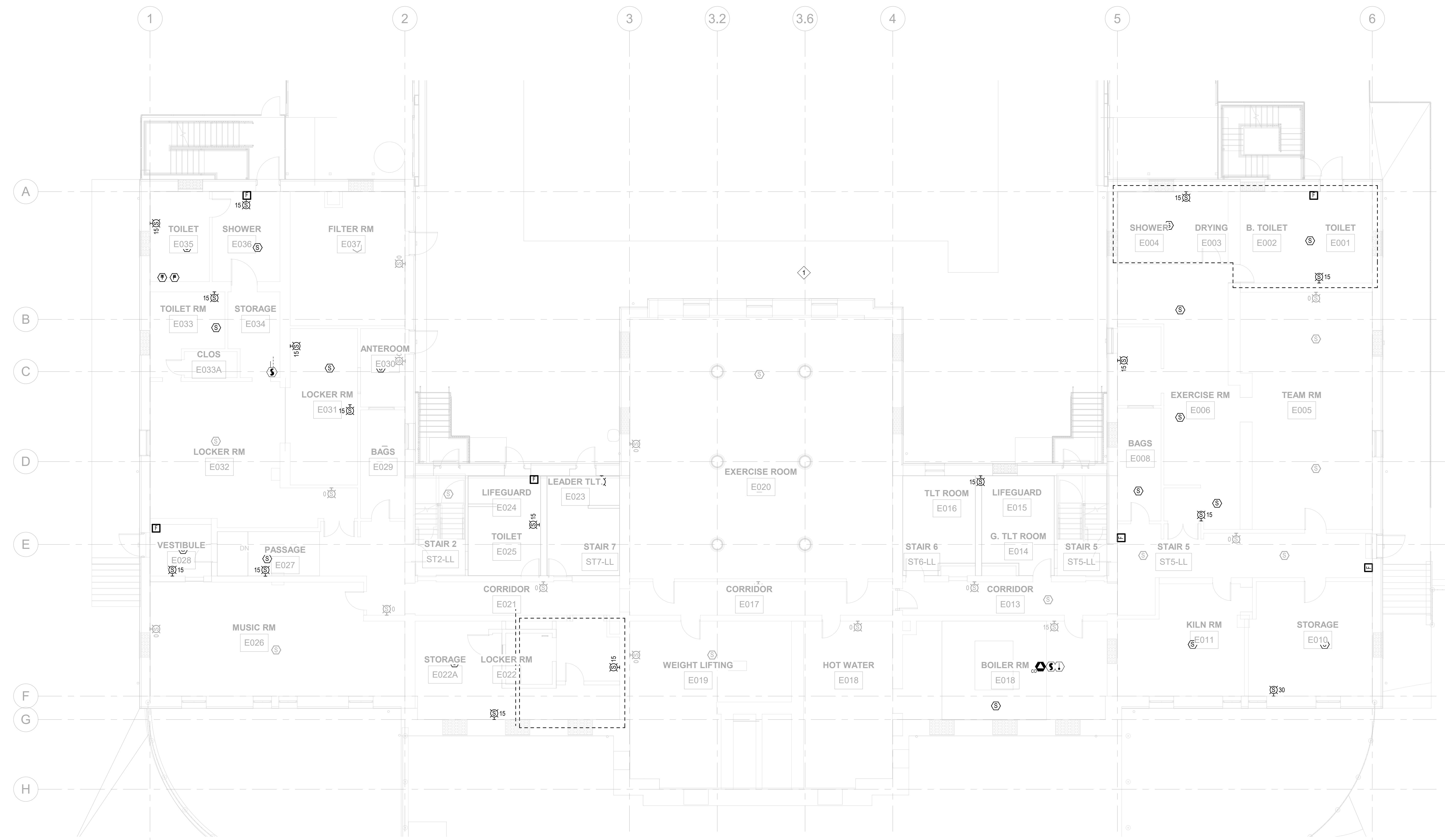
PROJECT TITLE  
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DRAWING TITLE  
 FIRE ALARM DEMOLITION - LOWER LEVEL BASE SCOPE

PROJECT NO. KMLX21003	DRAWING NO. FA100-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 FIRE ALARM DEMOLITION - REC CENTER LOWER LEVEL - BASE SCOPE  
 FA100-R.2 1/8" = 1'-0"

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GENERAL NOTES	
1.	EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
2.	CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE AND VERIFY ALL QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES THAT ARE TO BE DEMOLISHED PRIOR TO BID. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
3.	REUSE ANY EXISTING CONDUIT IF EQUIPMENT OR DEVICE IS REPLACED IN KIND. MATCH SURFACE NEW FINISH. PATCH AND MATCH FINAL SURFACE FINISHES WHERE EQUIPMENT IS REMOVED IN ITS ENTIRETY.

DEMOLITION NOTES	
1	DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES. FIRE ALARM DEVICES TO BE STORED IN A SAFE DRY PLACE FOR REUSE IN NEW WORK PHASE.

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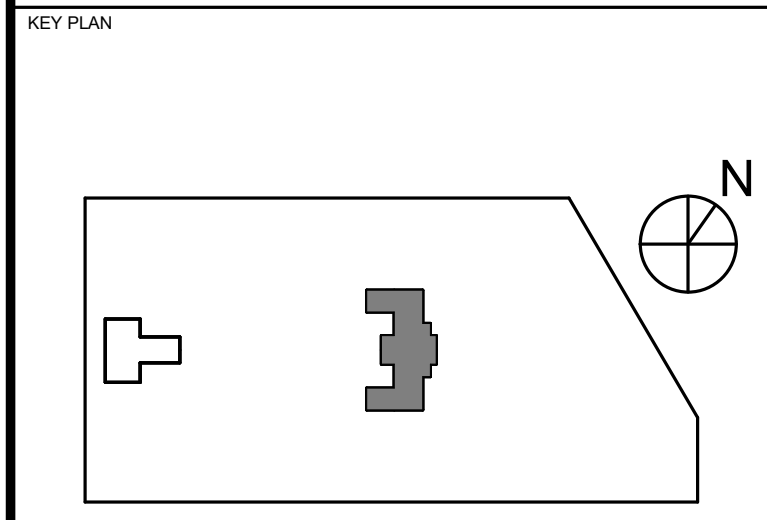
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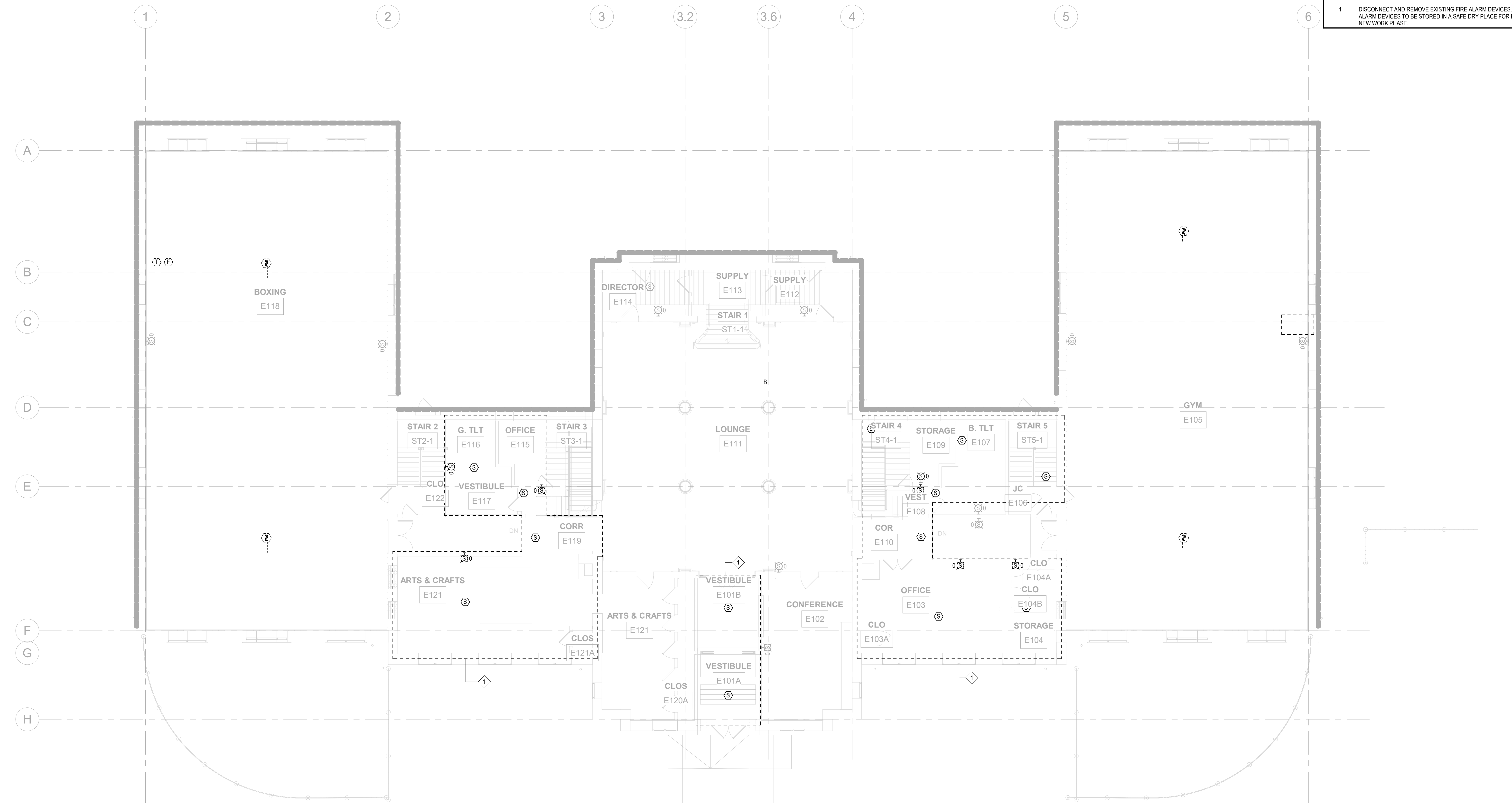
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DRAWING TITLE  
FIRE ALARM DEMOLITION - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. FA101-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: JR

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 FIRE ALARM DEMOLITION - REC CENTER FIRST FLOOR  
FA101-R.2 1/8" = 1'-0"

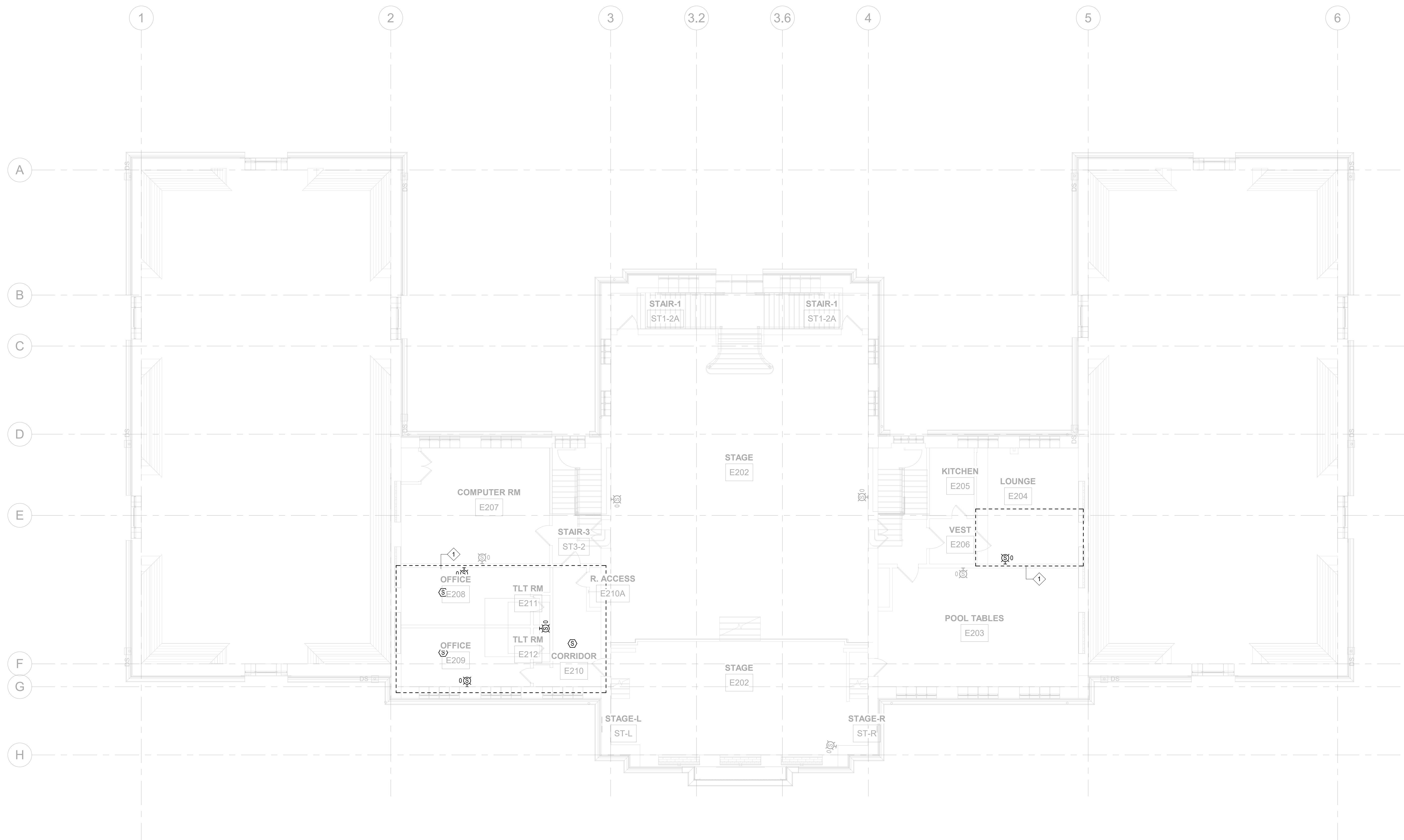
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06/02/2023

**GENERAL NOTES**

- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
- CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE AND VERIFY ALL QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES THAT ARE TO BE DEMOLISHED PRIOR TO BID. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
- REUSE ANY EXISTING CONDUIT IF EQUIPMENT OR DEVICE IS REPLACED IN KIND - MATCH SURFACE NEW FINISH PATCH AND MATCH FINAL SURFACE FINISHES WHERE EQUIPMENT IS REMOVED IN ITS ENTIRETY.

**DEMOLITION NOTES**

- DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES. FIRE ALARM DEVICES TO BE STORED IN A SAFE DRY PLACE FOR REUSE IN NEW WORK PHASE.



**1 FIRE ALARM DEMOLITION - REC CENTER SECOND FLOOR**  
 FA102-R.2 1/8" = 1'-0"

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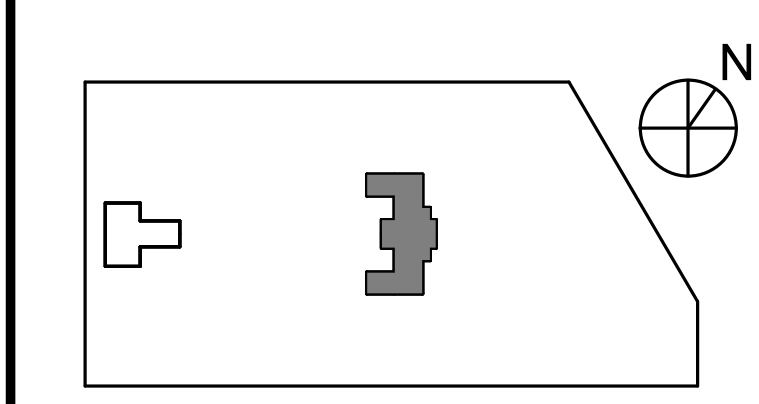
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

KEY PLAN



DRAWING TITLE  
**FIRE ALARM DEMOLITION - SECOND FLOOR**

PROJECT NO. KMLX21003	DRAWING NO. FA102-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: Author	CHECKED BY: Approver

**PACKAGE 2 - IFB**  
**NOT FOR CONSTRUCTION**  
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

- ### GENERAL NOTES
1. EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
  2. ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH EXISTING HONEYWELL SILENT KNIGHT MODEL 8820.
  3. SMOKE ALARM DEVICES SHALL BE MOUNTED TO CEILING LEVEL.
  4. STROBE LIGHTS SHALL BE MOUNTED 7' 2" ABOVE FINISHED FLOOR.
  5. FIRE ALARM PULL STATIONS SHALL BE MOUNTED 4' ABOVE FINISHED FLOOR.
  6. DESIGN ALTERNATE R-3
  7. EXISTING FIRE ALARM SYSTEM IS MONITORED BY FIDELITY ALARM CONTACT AT 1-800-224-1077

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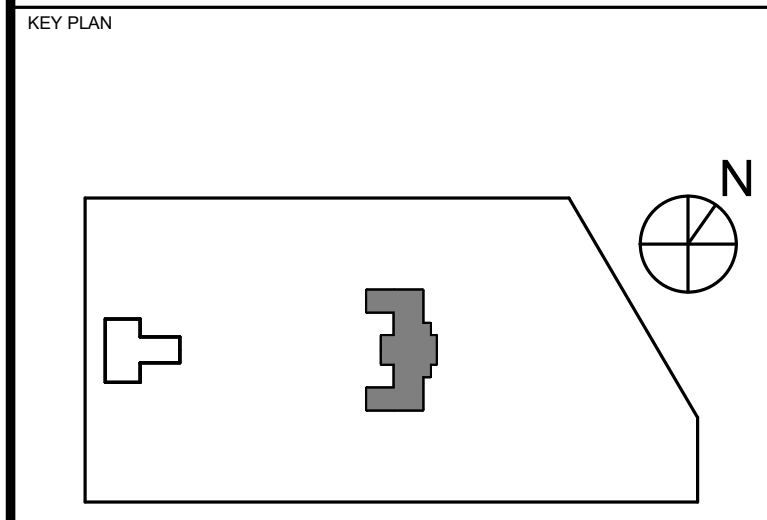
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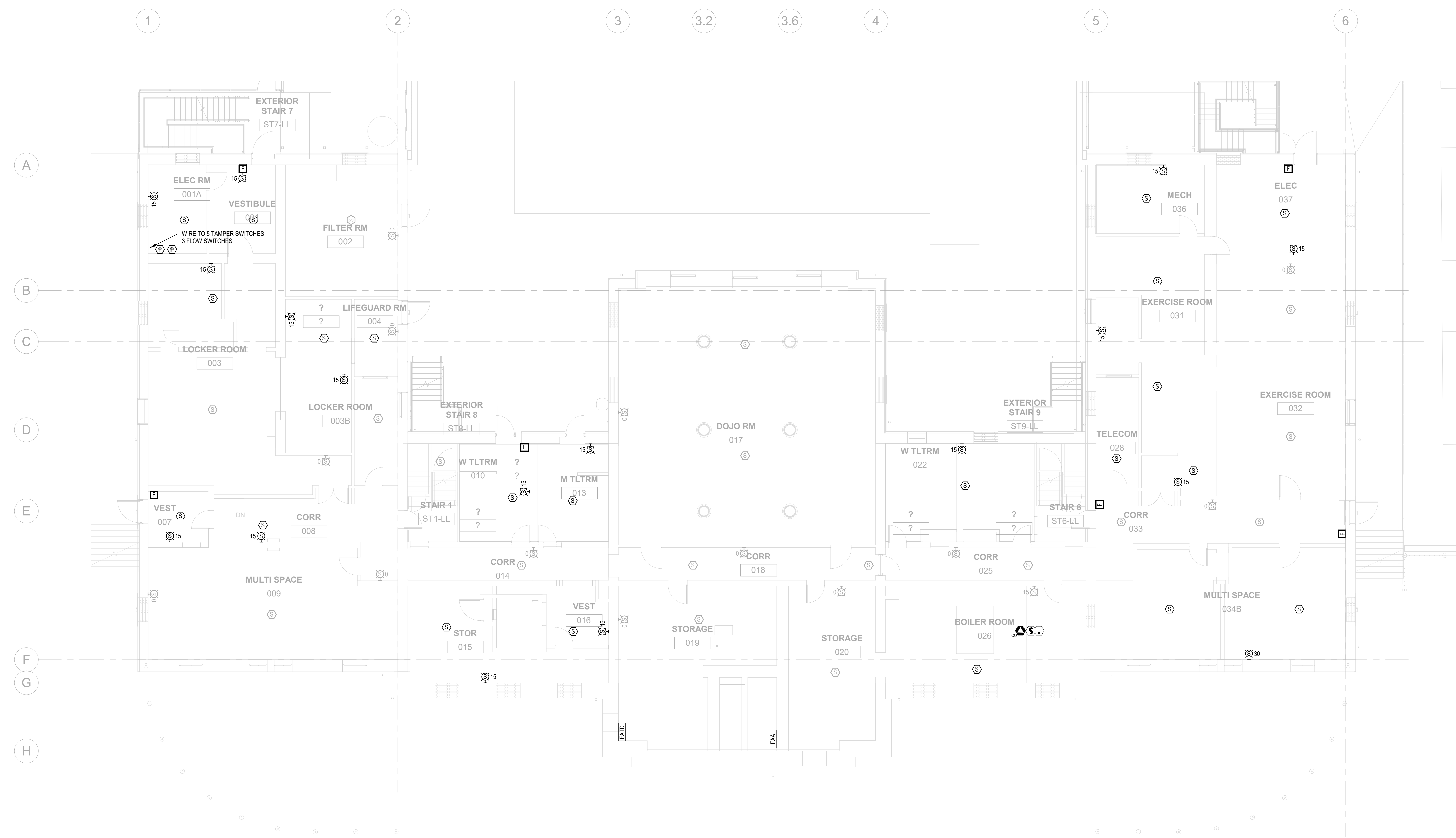
PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**FIRE ALARM PROPOSED - LOWER LEVEL BASE SCOPE**

PROJECT NO. KMLX21003	DRAWING NO. FA200-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: JR

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1 FIRE ALARM PROPOSED - REC CENTER LOWER LEVEL  
 FA200-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
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 06/02/2023



**GENERAL NOTES**

- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
- ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH COMPATIBLE WITH HONEYWELL SILENT KNIGHT MODEL 6620.
- EXISTING FIRE ALARM SYSTEM IS MONITORED BY FIDELITY ALARM CONTACT AT 1-800-224-1077

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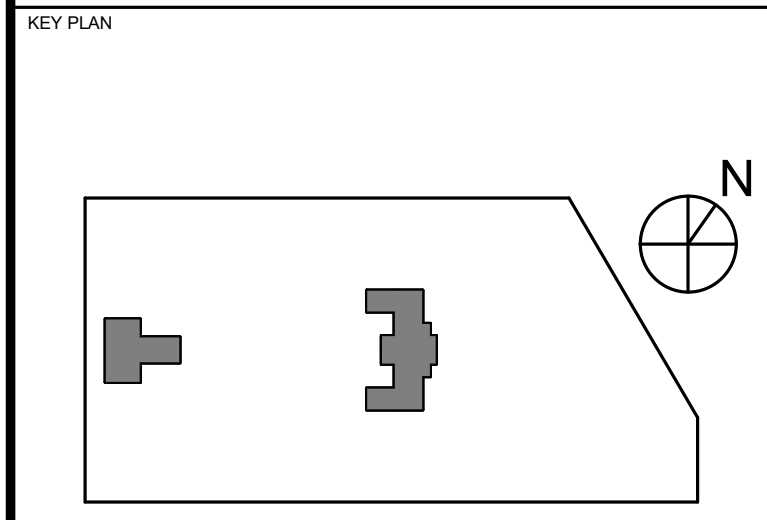
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**LEED CONSULTANT:**  
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CITY OF PHILADELPHIA  
REBUILD / PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
5TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA PENNSYLVANIA

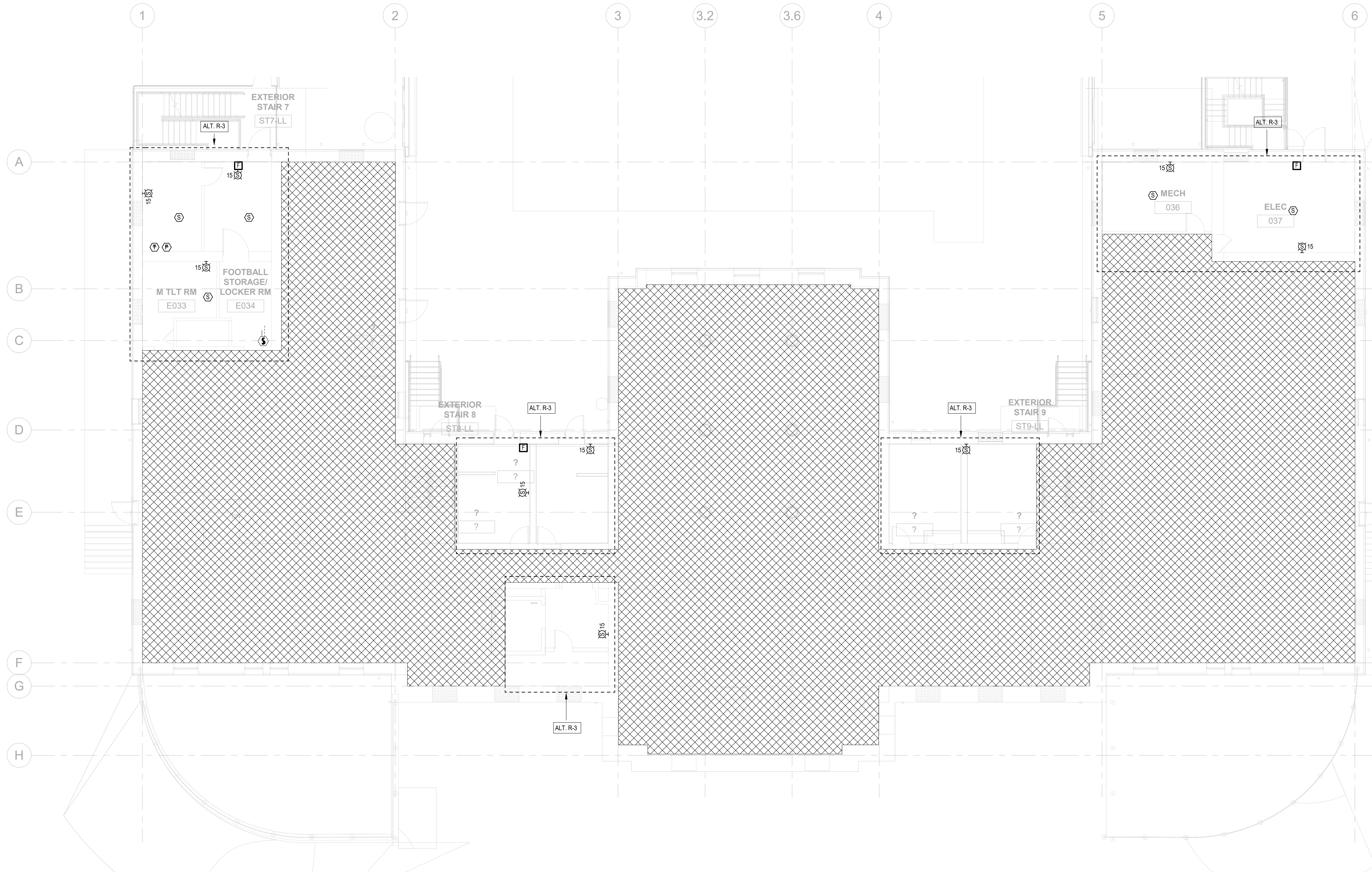
PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**FIRE ALARM PROPOSED - LOWER LEVEL DEDUCT ALT.**

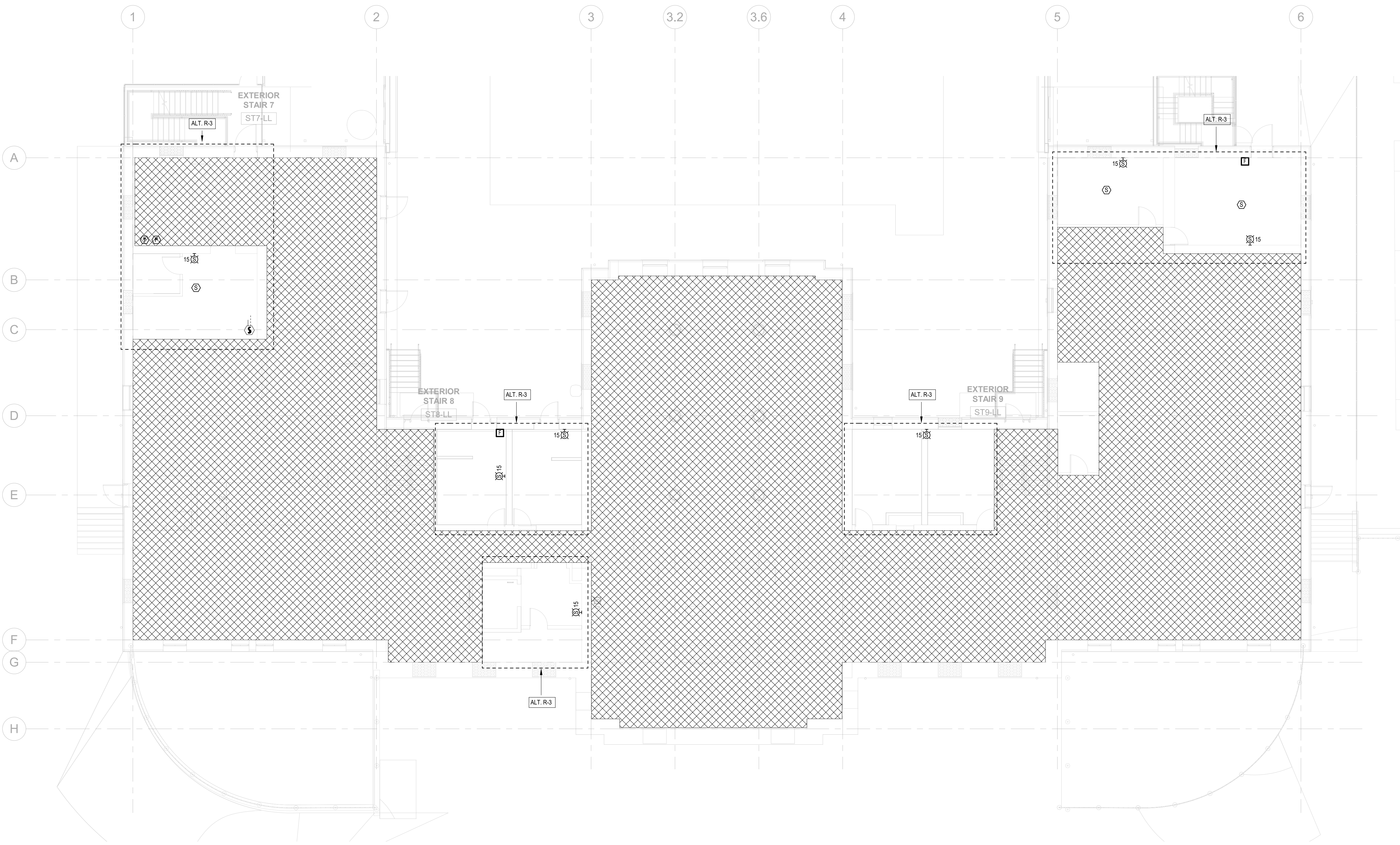
PROJECT NO. KMLX21003	DRAWING NO. <b>FA200B-R.2</b>
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

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1 FIRE ALARM PROPOSED - REC CENTER LOWER LEVEL - ALTERNATE R-3  
FA200B-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023



1 FIRE ALARM PROPOSED-ADD ALTERNATE R-3  
 FA200C-R.2/18" = 1'-0"

REVISIONS

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



REVIEWED BY:  
 PROJECT COORDINATOR:  
 SEAL:



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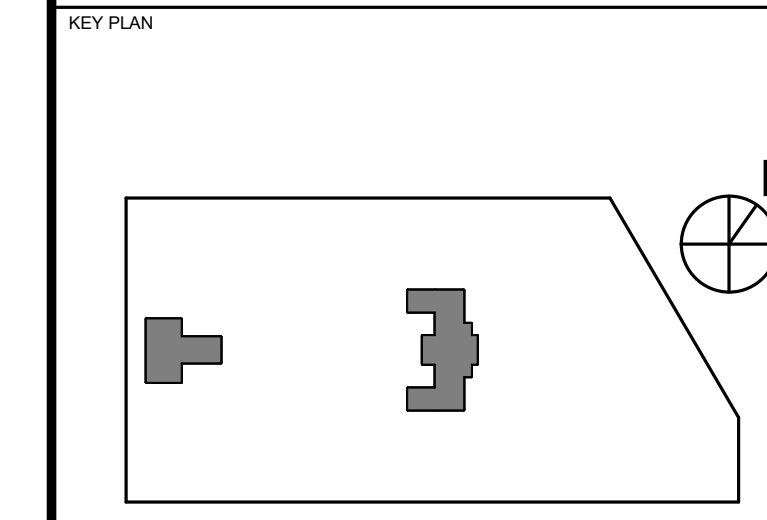
LANDSCAPE ARCHITECT:  
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PROJECT TITLE  
 KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



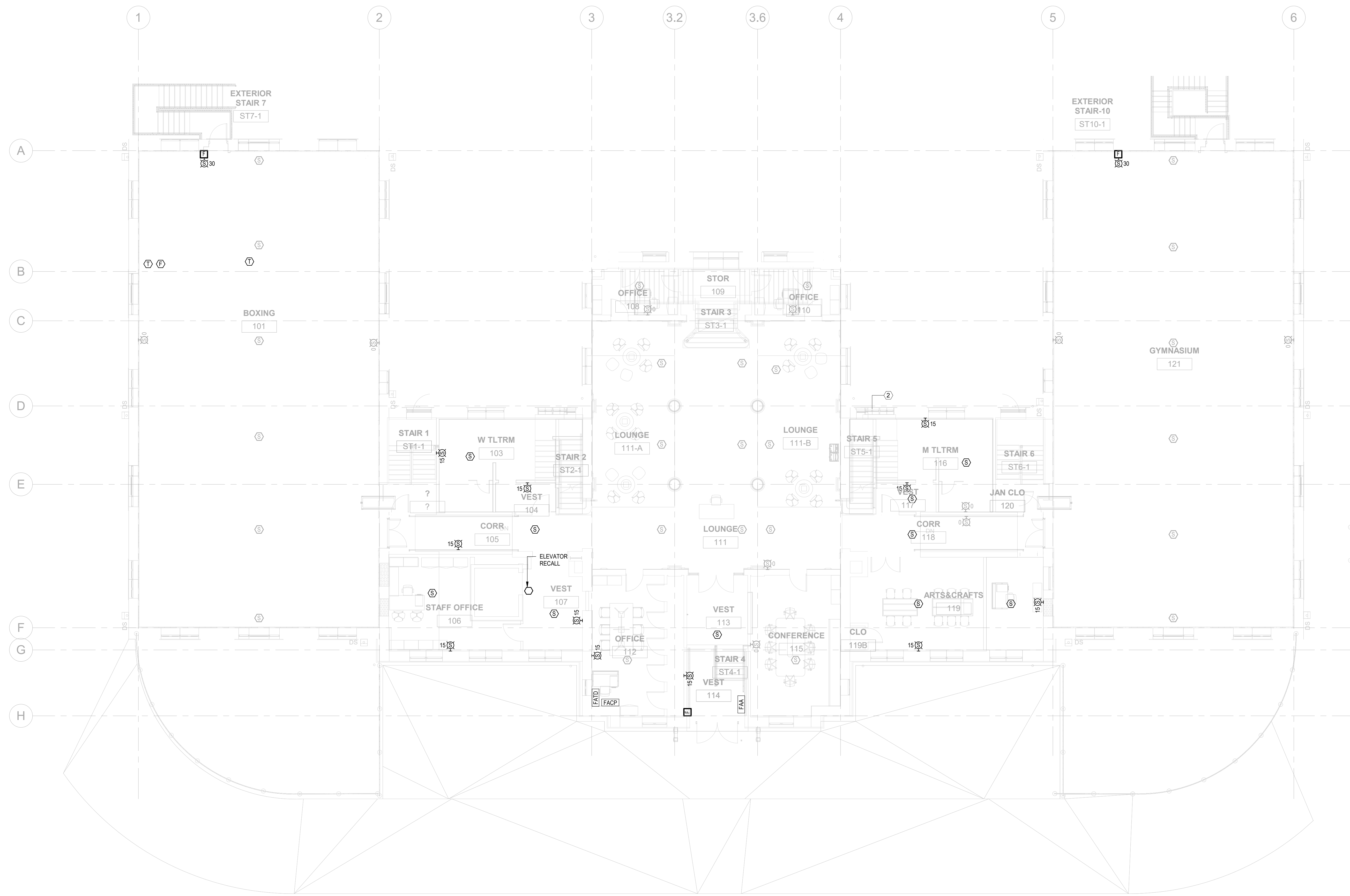
DRAWING TITLE  
 FIRE ALARM PROPOSED - LOWER LEVEL ADD ALTERNATE

PROJECT NO. KMLX21003	DRAWING NO. FA200C-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: Author	
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1 FIRE ALARM PROPOSED - REC CENTER FIRST FLOOR  
 FA201-R.2 1/8" = 1'-0"

**GENERAL NOTES**

- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
- ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH HONEYWELL SILENT KNIGHT MODEL 8820.
- SMOKE ALARM DEVICES SHALL BE MOUNTED TO CEILING LEVEL.
- STROBE LIGHTS SHALL BE MOUNTED 7' 2" ABOVE FINISHED FLOOR.
- FIRE ALARM PULL STATIONS SHALL BE MOUNTED 4' ABOVE FINISHED FLOOR.
- EXISTING FIRE ALARM SYSTEM IS MONITORED BY FIDELITY ALARM CONTACT AT 1-800-224-1077

**CONSTRUCTION NOTES**

- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.

**REVISIONS**

ISSUE	DATE	DESCRIPTION
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REVIEWED BY:

PROJECT COORDINATOR

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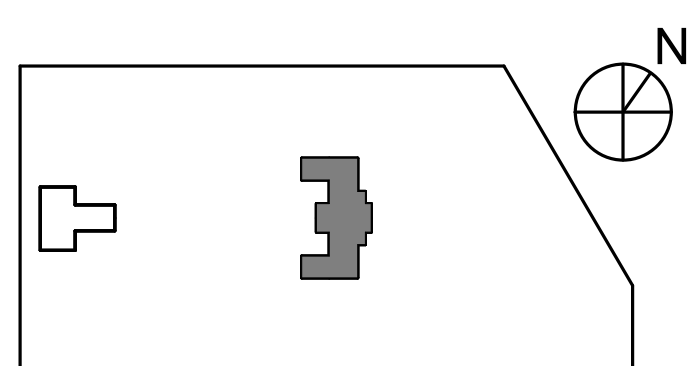
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PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**

KEY PLAN



DRAWING TITLE  
**FIRE ALARM PROPOSED - FIRST FLOOR**

PROJECT NO. KMLX21003

DRAWING NO.

DATE 04/21/2023

FA201-R.2

SCALE AS NOTED

DRAWN BY: NSL

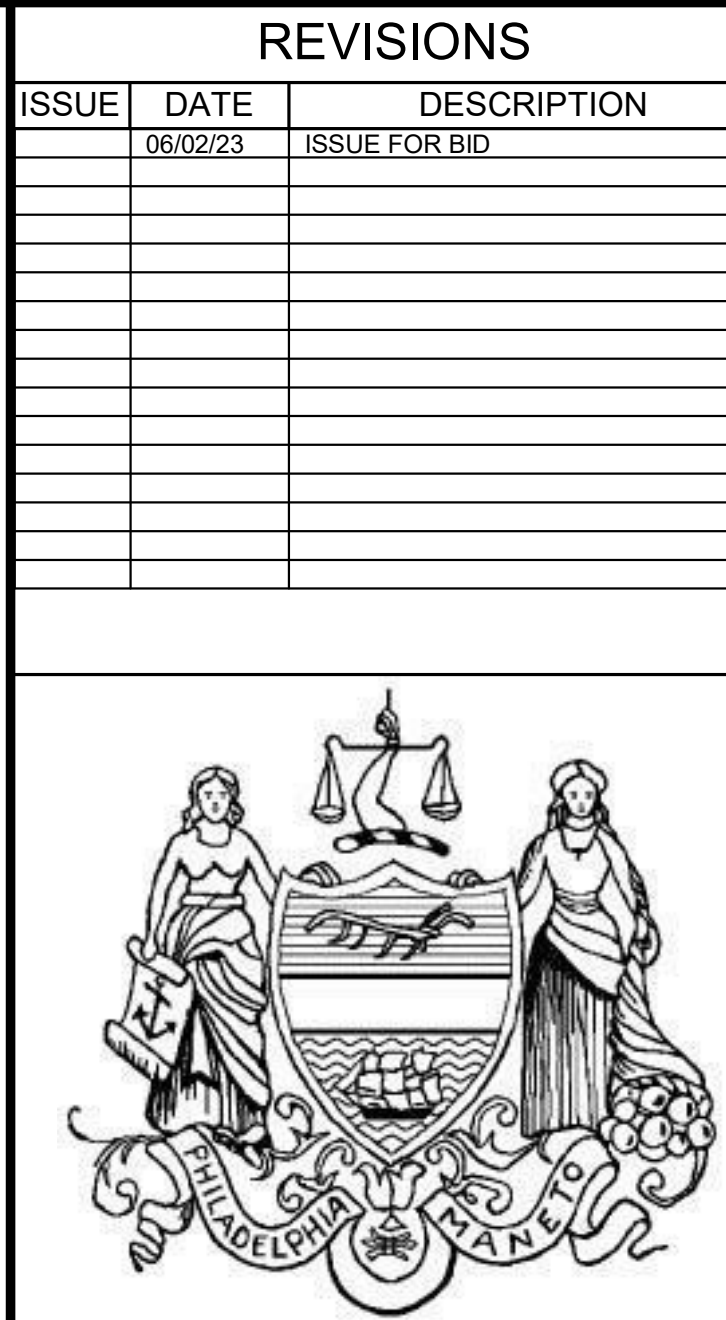
CHECKED BY: JR

PACKAGE 2 - IFB  
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 06/02/2023

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



- GENERAL NOTES**
- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
  - ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH HONEYWELL SILENT KNIGHT MODEL 860.
  - SMOKE ALARM DEVICES SHALL BE MOUNTED TO CEILING LEVEL.
  - STROBE LIGHTS SHALL BE MOUNTED 7' 2" ABOVE FINISHED FLOOR.
  - FIRE ALARM PULL STATIONS SHALL BE MOUNTED 4' ABOVE FINISHED FLOOR.
  - EXISTING FIRE ALARM SYSTEM IS MONITORED BY FIDELITY ALARM CONTACT AT 1-800-224-1077



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PROJECT COORDINATOR:  
SEALS:



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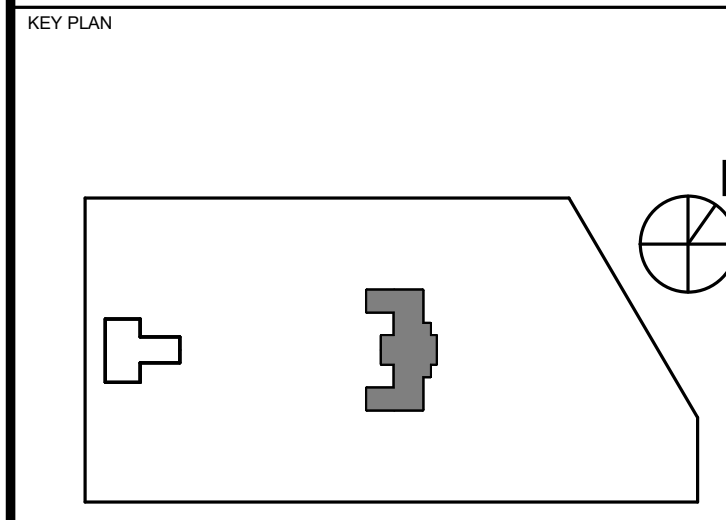
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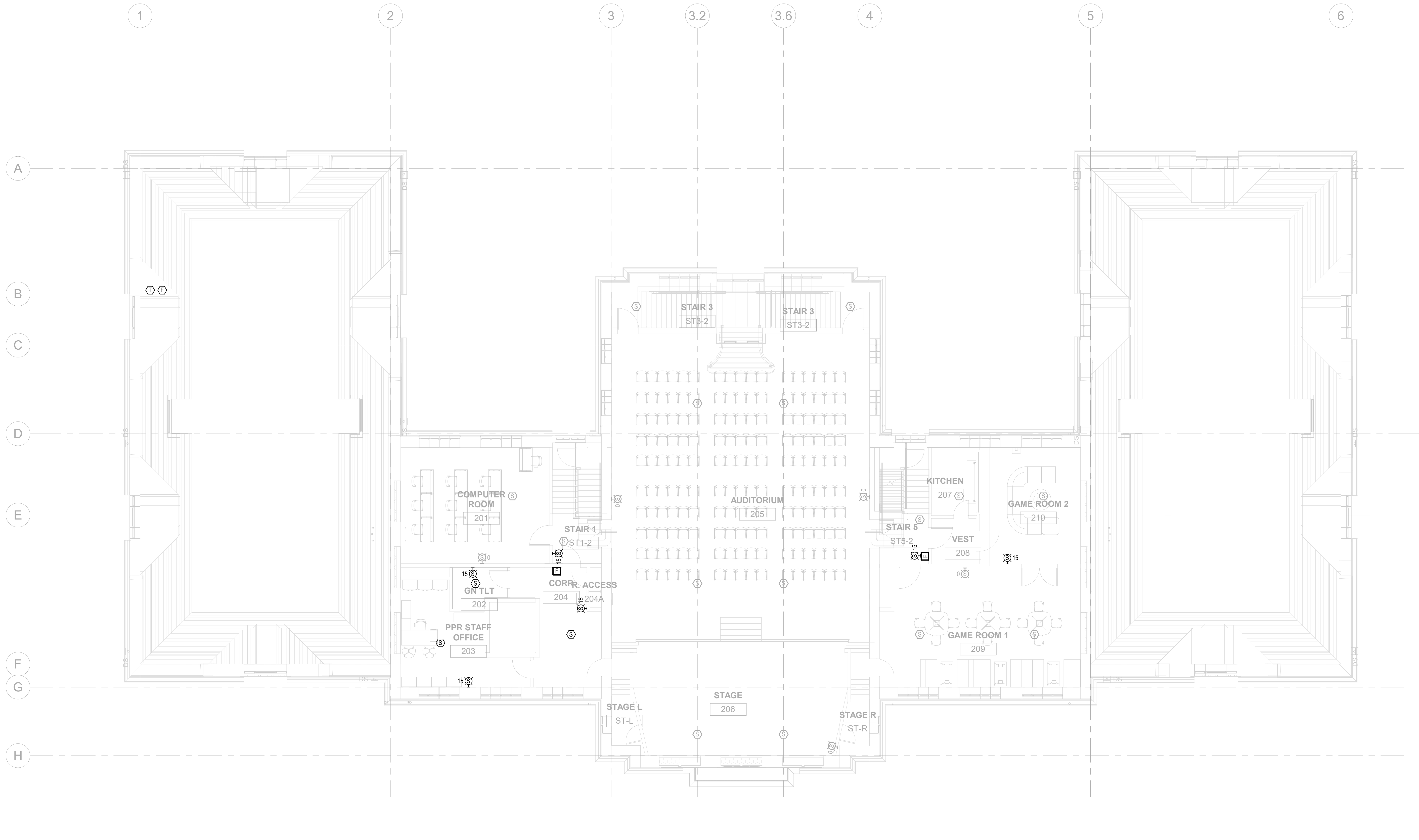
PROJECT TITLE  
**KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2**



DRAWING TITLE  
**FIRE ALARM PROPOSED - SECOND FLOOR**

PROJECT NO. KMLX21003	DRAWING NO. FA202-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: NSL	
CHECKED BY: JR	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



**1 FIRE ALARM PROPOSED - REC CENTER SECOND FLOOR**  
FA202-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

**GENERAL NOTES**

1. EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
2. ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH EXISTING HONEYWELL SILENT KNIGHT MODEL 8820.
3. SMOKE ALARM DEVICES SHALL BE MOUNTED TO CEILING LEVEL.
4. STROBE LIGHTS SHALL BE MOUNTED 7' 2" ABOVE FINISHED FLOOR.
5. FIRE ALARM PULL STATIONS SHALL BE MOUNTED 4' ABOVE FINISHED FLOOR.
6. HEAT DETECTORS SHALL BE MOUNTED AT CEILING LEVEL.
7. EXISTING FIRE ALARM SYSTEM IS MONITORED BY FIDELITY ALARM CONTACT AT 1-800-224-1077

**REVISIONS**

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PROJECT COORDINATOR

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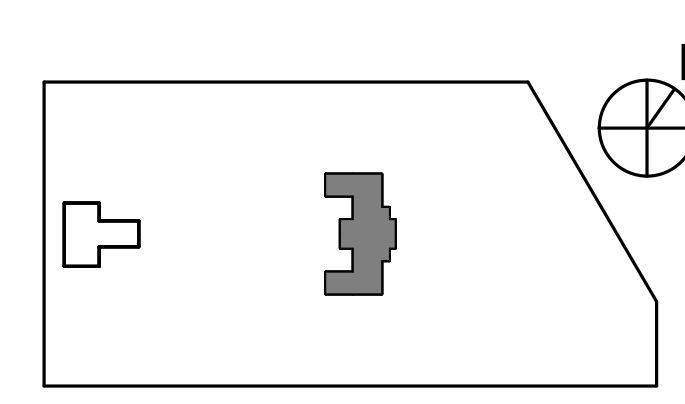
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 PHILADELPHIA PENNSYLVANIA

**PROJECT TITLE**  
 KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2

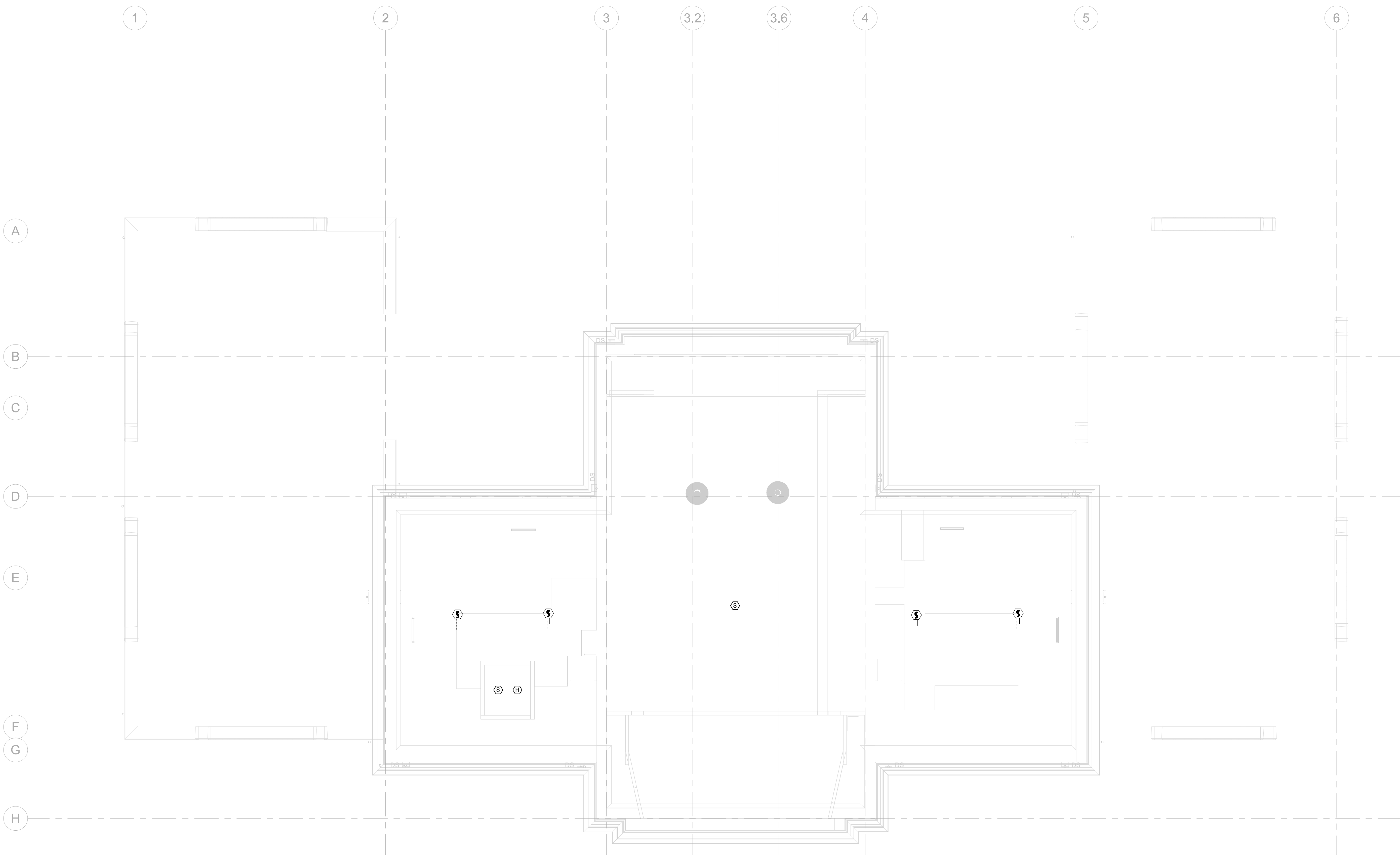
**KEY PLAN**



**DRAWING TITLE**  
 FIRE ALARM PROPOSED - ATTIC

PROJECT NO. KMLX21003	DRAWING NO. FA203-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: NSL	
CHECKED BY: JR	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



**1 FIRE ALARM PROPOSED - REC CENTER ATTIC/ROOF**  
 FA203-R.2 1/8" = 1'-0"

**PACKAGE 2 - IFB**  
**NOT FOR CONSTRUCTION**  
 06/02/2023







GENERAL NOTES:

- REFER TO FP001 FOR FIRE PROTECTION NOTES, LEGENDS, AND ABBREVIATIONS
- REFER TO SCHEDULES AND FIRE PROTECTION DETAILS PERTAINING TO THIS PROJECT
- CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS
- ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE
- COORDINATE FIRE ALARM RELATED INSTALLATION WITH ELECTRICAL CONTRACTOR AND DESIGN DRAWINGS
- ALL VALVES SHALL BE INSTALLED TO BE ACCESSIBLE
- ALL PIPE SIZES AND SPRINKLER HEAD LOCATIONS REPRESENTED ON THE DRAWINGS AND RISER DIAGRAMS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE THE REQUIRED SIZE PER HYDRAULIC CALCULATIONS. COORDINATE WITH LOCAL FIRE DEPARTMENT FOR FDC SIZE
- ALL SPRINKLER HEADS IN GYM AREAS SHALL BE PROTECTED WITH CAGE COVERING

REVISIONS

ISSUE	DATE	DESCRIPTION
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PROJECT COORDINATOR

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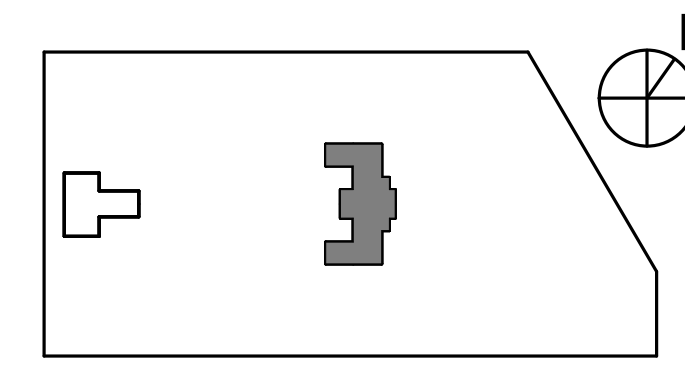
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CITY OF PHILADELPHIA  
REBUILD / PHILADELPHIA PARKS AND RECREATION  
1515 ARCH STREET  
5TH FLOOR, ONE PARKWAY BUILDING  
PHILADELPHIA PENNSYLVANIA

PROJECT TITLE  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2

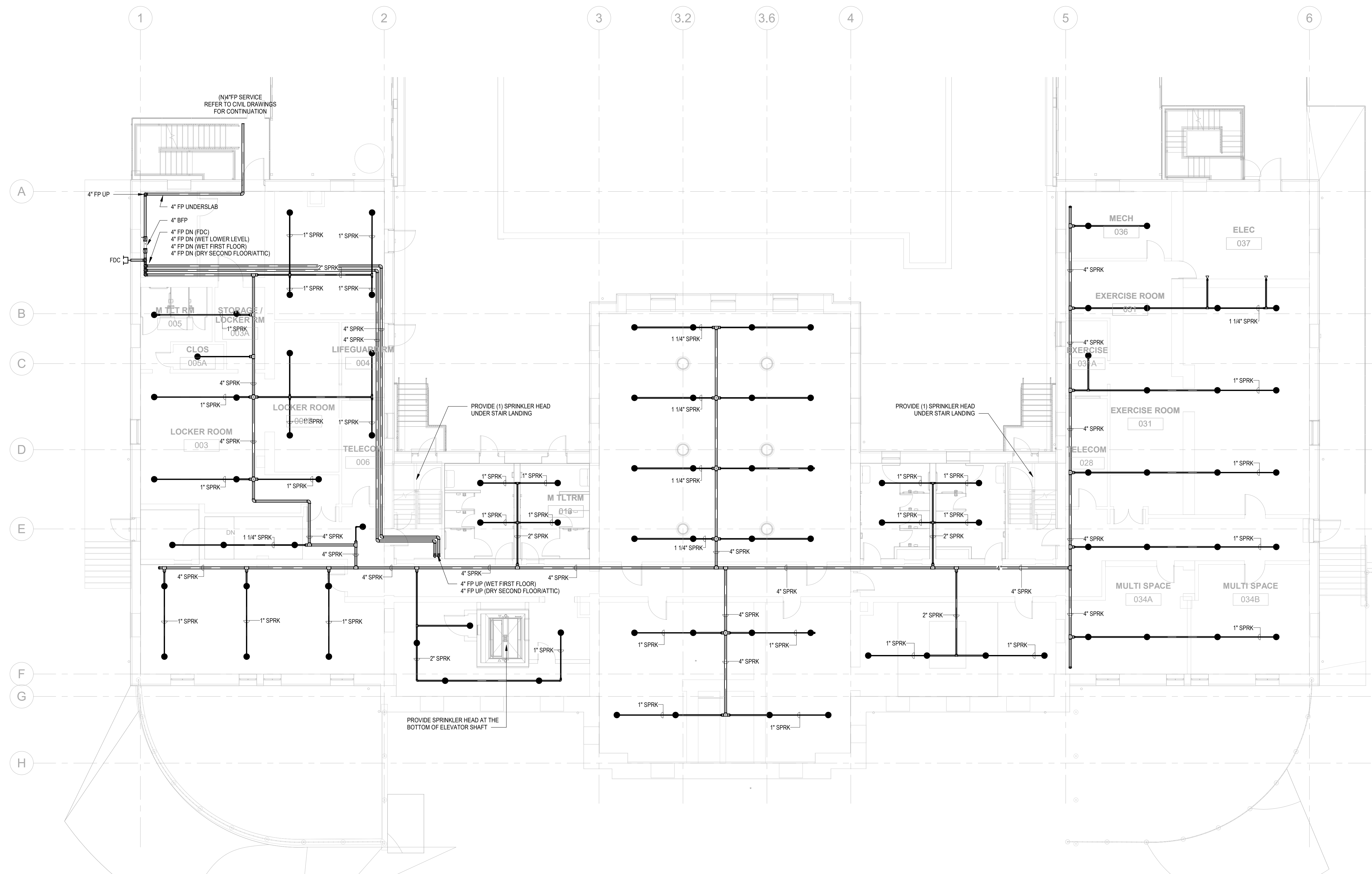
KEY PLAN



DRAWING TITLE  
FIRE PROTECTION PROPOSED - LOWER LEVEL

PROJECT NO. KMLX21003	DRAWING NO. FP100-R.2
DATE 04/21/2023	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 FIRE PROTECTION PROPOSED - REC CENTER LOWER LEVEL  
FP100-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023

GENERAL NOTES:

- REFER TO FP001 FOR FIRE PROTECTION NOTES, LEGENDS, AND ABBREVIATIONS
- REFER TO SCHEDULES AND FIRE PROTECTION DETAILS PERTAINING TO THIS PROJECT
- CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
- COORDINATE FIRE ALARM RELATED INSTALLATION WITH ELECTRICAL CONTRACTOR AND DESIGN DRAWINGS.
- ALL VALVES SHALL BE INSTALLED TO BE ACCESSIBLE.
- ALL PIPE SIZES AND SPRINKLER HEAD LOCATIONS REPRESENTED ON THE DRAWINGS AND RISER DIAGRAMS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE THE REQUIRED SIZE PER HYDRAULIC CALCULATIONS. COORDINATE WITH LOCAL FIRE DEPARTMENT FOR FDC SIZE.
- ALL SPRINKLER HEADS IN GYM AREAS SHALL BE PROTECTED WITH CAGE COVERING.

REVISIONS

ISSUE	DATE	DESCRIPTION
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PROJECT COORDINATOR

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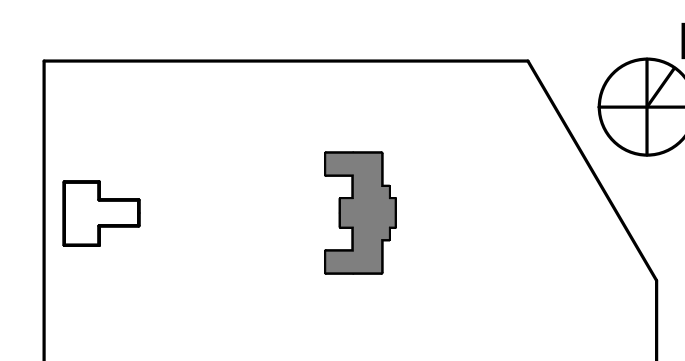
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**PROJECT TITLE**  
KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2

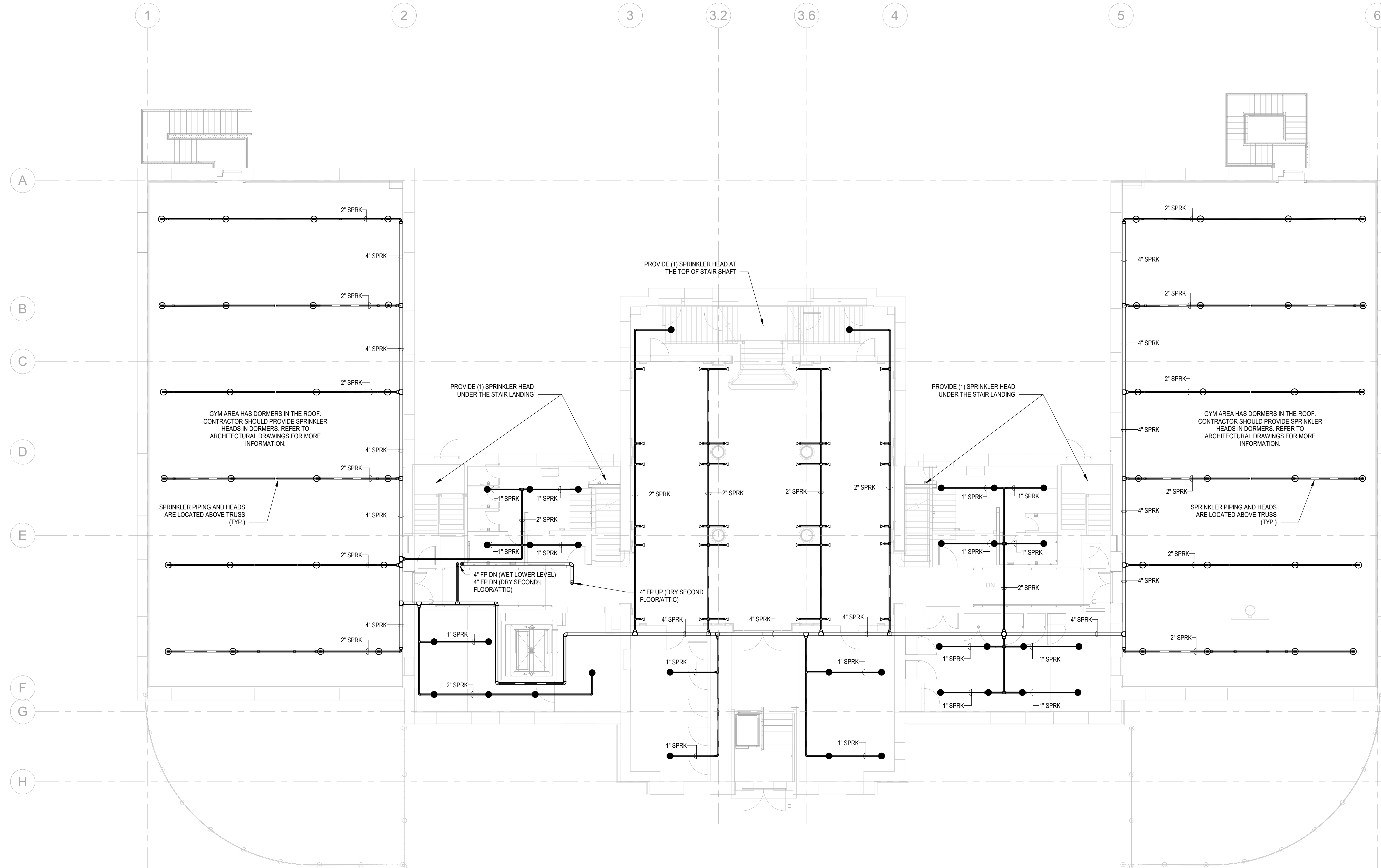
**KEY PLAN**



**DRAWING TITLE**  
FIRE PROTECTION PROPOSED - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. FP101-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHC

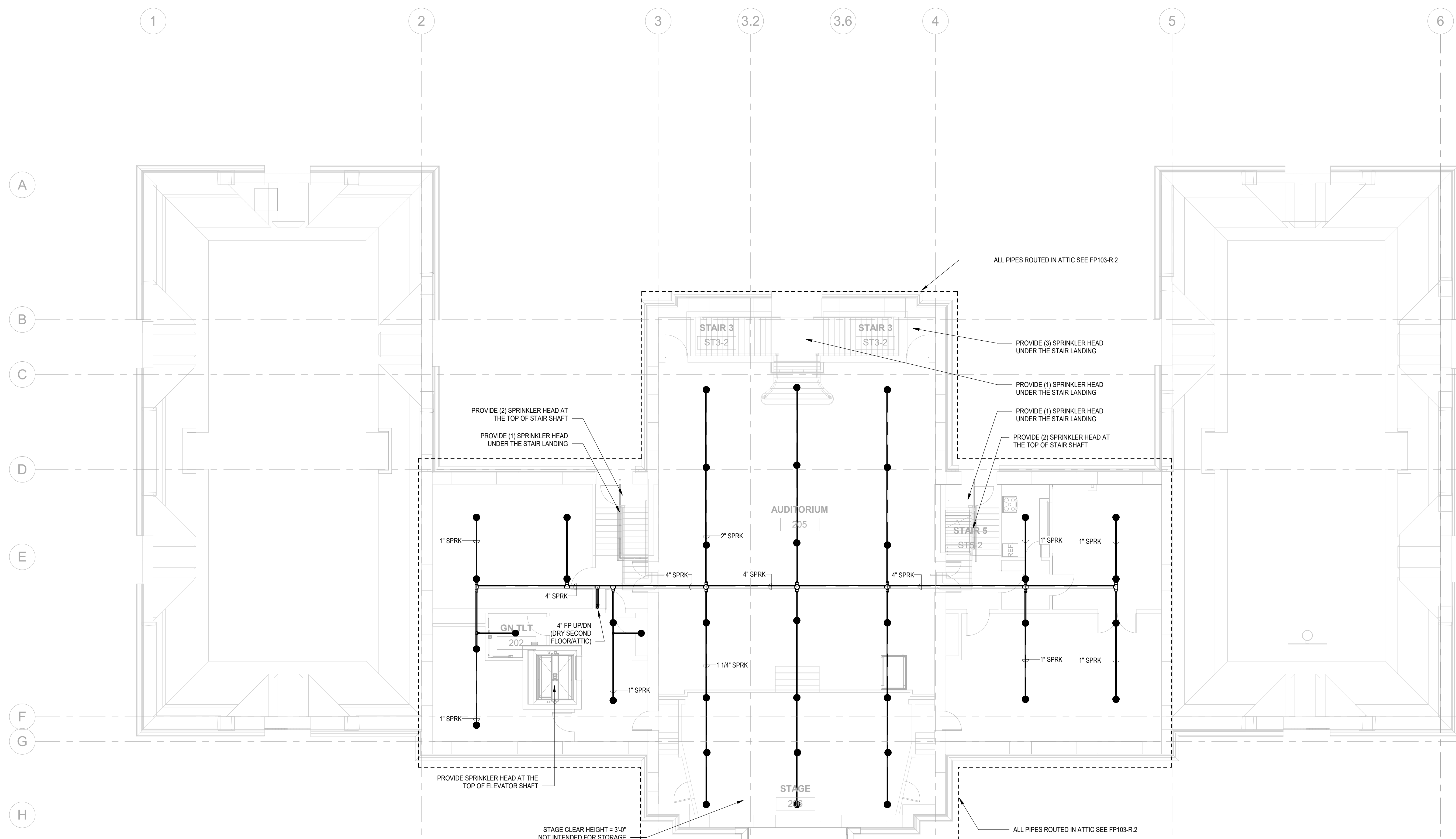
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1 FIRE PROTECTION PROPOSED - REC CENTER FIRST FLOOR  
FP101-R.2 1/8" = 1'-0"

PACKAGE 2 - IFB  
NOT FOR CONSTRUCTION  
06/02/2023





- GENERAL NOTES:
- REFER TO FP001 FOR FIRE PROTECTION NOTES, LEGENDS, AND ABBREVIATIONS
  - REFER TO SCHEDULES AND FIRE PROTECTION DETAILS PERTAINING TO THIS PROJECT
  - CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM
  - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS
  - ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE
  - COORDINATE FIRE ALARM RELATED INSTALLATION WITH ELECTRICAL CONTRACTOR AND DESIGN DRAWINGS
  - ALL VALVES SHALL BE INSTALLED TO BE ACCESSIBLE
  - ALL PIPE SIZES AND SPRINKLER HEAD LOCATIONS REPRESENTED ON THE DRAWINGS AND RISER DIAGRAMS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE THE REQUIRED SIZE PER HYDRAULIC CALCULATIONS. COORDINATE WITH LOCAL FIRE DEPARTMENT FOR FDC SIZE
  - ALL SPRINKLER HEADS IN GYM AREAS SHALL BE PROTECTED WITH CAGE COVERING

1 FIRE PROTECTION PROPOSED - REC CENTER SECOND FLOOR  
 FP102-R.2 1/8" = 1'-0"

REVISIONS		
ISSUE	DATE	DESCRIPTION
	06/02/23	ISSUE FOR BID



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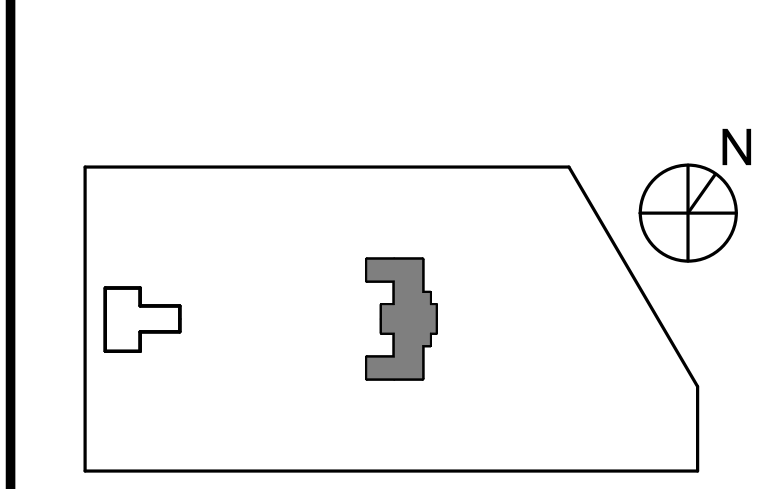
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PROJECT TITLE  
 KINGESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



DRAWING TITLE  
 FIRE PROTECTION PROPOSED - SECOND FLOOR

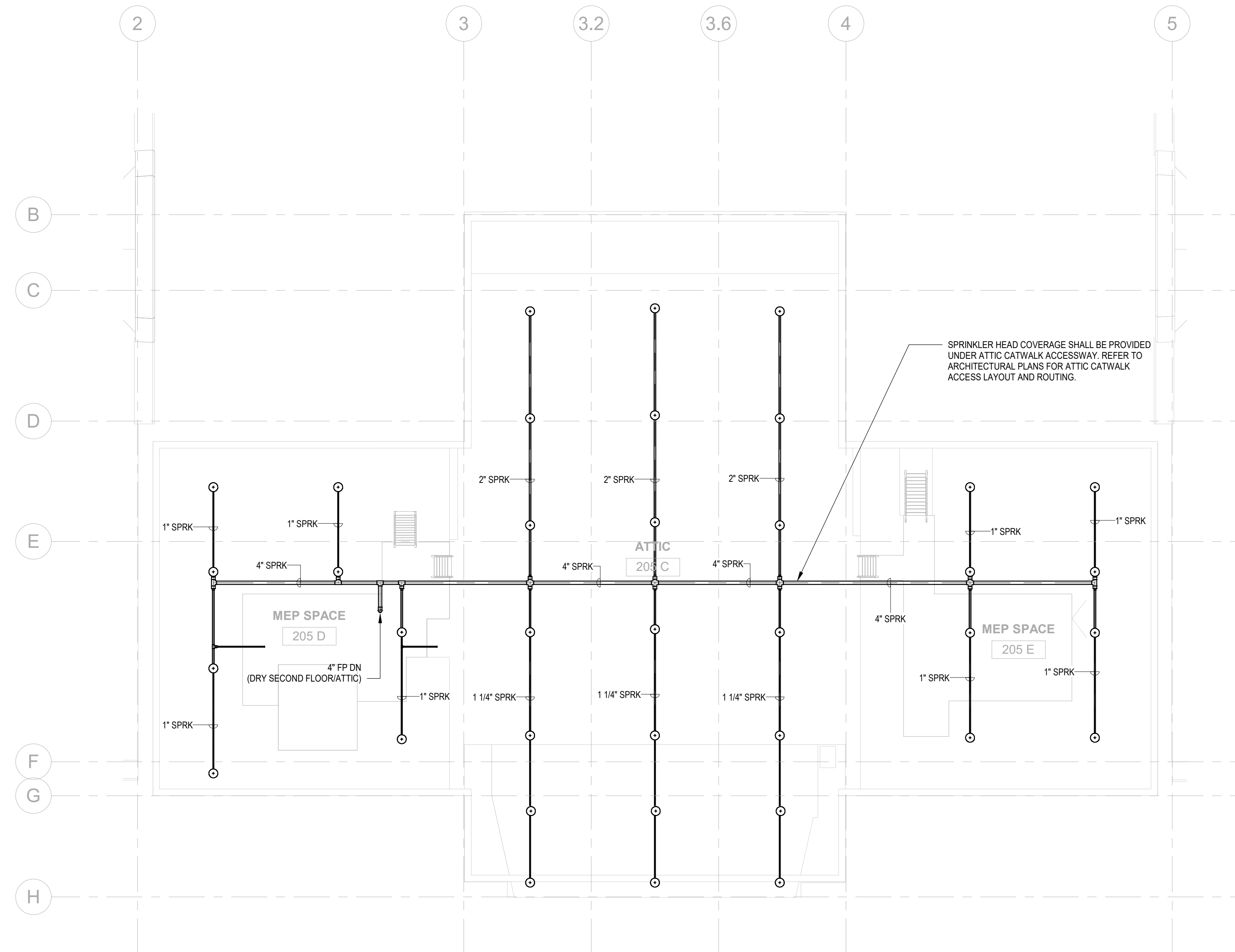
PROJECT NO. KMLX21003	DRAWING NO. FP102-R.2
DATE 04/21/2023	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHG

PACKAGE 2 - IFB  
 NOT FOR CONSTRUCTION  
 06/02/2023

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

GENERAL NOTES:

1. REFER TO FP001 FOR FIRE PROTECTION NOTES, LEGENDS, AND ABBREVIATIONS
2. REFER TO SCHEDULES AND FIRE PROTECTION DETAILS PERTAINING TO THIS PROJECT.
3. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
4. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
5. ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
6. COORDINATE FIRE ALARM RELATED INSTALLATION WITH ELECTRICAL CONTRACTOR AND DESIGN DRAWINGS.
7. ALL VALVES SHALL BE INSTALLED TO BE ACCESSIBLE.
8. ALL PIPE SIZES AND SPRINKLER HEAD LOCATIONS REPRESENTED ON THE DRAWINGS AND RISER DIAGRAMS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE THE REQUIRED SIZE PER HYDRAULIC CALCULATIONS. COORDINATE WITH LOCAL FIRE DEPARTMENT FOR FDC SIZE.
9. ALL SPRINKLER HEADS IN GYM AREAS SHALL BE PROTECTED WITH CAGE COVERING.



1 FIRE PROTECTION PROPOSED - REC CENTER ATTIC  
 F103-R.2 1/8" = 1'-0"

REVISIONS

ISSUE	DATE	DESCRIPTION
06/02/23		ISSUE FOR BID



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PROJECT COORDINATOR

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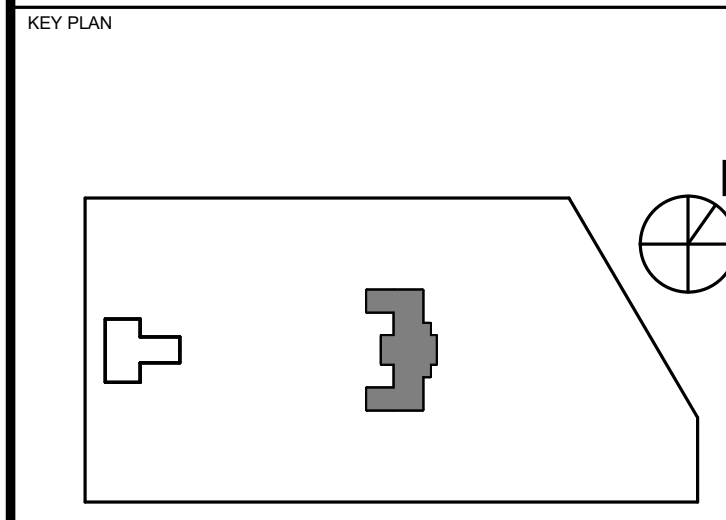
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PROJECT TITLE  
 KINGSESSING RECREATION CENTER BUILDING AND SITE IMPROVEMENTS - PACKAGE 2



DRAWING TITLE  
 FIRE PROTECTION PROPOSED - ATTIC

PROJECT NO. KMLX21003  
 DRAWING NO. FP103-R.2

DATE 04/21/2023  
 SCALE AS NOTED  
 DRAWN BY LJP  
 CHECKED BY RHG

PACKAGE 2 - IFB  
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