

GENERAL NOTES FOR DEMOLITION WORK:

1. THE CONTRACTOR SHALL, PRIOR TO SUBMITTING A BID, VISIT THE JOB SITE AND WALK THROUGH THE DIFFERENT AREAS WHERE THE DEMOLITION AND NEW WORK WILL BE PERFORMED AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND THE EXTENT OF THE DEMOLITION WORK AND CLARIFY ALL QUESTIONS WITH ARCHITECT AND/OR ELECTRICAL ENGINEER PRIOR TO BID AND INSTALLATION. NO ADDITIONAL COST TO OWNER SHALL BE ALLOWED DUE TO UNFAMILIARITY WITH EXISTING CONDITIONS.

2. THE CONTRACTOR SHALL FOLLOW ALL SAFETY PROCEDURES AND REGULATIONS AS REQUIRED BY ALL CONCERNING BODIES, INCLUDING BUT NOT LIMITED TO, THE CITY, FEDERAL, STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH, NOTIFY ALL WORKERS OF THESE REGULATIONS.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR NOT TO DAMAGE ANY EXISTING UTILITY LINES AND EQUIPMENT, IN OR BELOW SLAB, IN THE CEILING OR ABOVE THE CEILING SPACE AND IN WALLS, INCLUDING BUT NOT LIMITED TO GAS, WATER, FIRE, SEWAGE AND DRAINAGE LINES AND ELECTRICAL CONDUITS AND WIRING, ETC. WHICH SHALL BE IN THE WAY OF DEMOLITION WORK. CONTRACTOR SHALL TAKE ALL THE PRECAUTIONS, INCLUDING HAND BREAKING OF CONCRETE IF NECESSARY, TO PREVENT SUCH DAMAGE. ON THE FIRST OCCURRENCE OF ANY DAMAGE, THE CONTRACTOR SHALL STOP ALL CUTTING, HAND-BREAKING AND/OR DEMOLITION WORK AND IMMEDIATELY CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR FURTHER INSTRUCTIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REPAIRING DAMAGED UTILITY LINES AND EQUIPMENT. THE METHOD OF SUCH REPAIRS SHALL BE APPROVED BY THE ARCHITECT AND/OR ELECTRICAL ENGINEER PRIOR TO PROCEEDING.

4. FOR DEMOLITION WORK PERFORMED IN AREAS WHERE THE OPERATION OF THE EXISTING FACILITY MUST CONTINUE OR SHOULD NOT BE INTERRUPTED, CONTRACTOR SHALL PERFORM THE FOLLOWING:

a. COORDINATE THE NEW AND DEMOLITION ELECTRICAL WORK WITH OTHER TRADES' WORK SCHEDULE.

b. KEEP THE SHUTDOWN TIME TO A MINIMUM.

c. COORDINATE THE NEW AND DEMOLITION WORK NOT TO CONFLICT WITH WORKING HOURS OF THE EXISTING FACILITY, IF POSSIBLE.

d. PROVIDE TEMPORARY ELECTRICAL, TELEPHONE AND AUXILIARY SYSTEM OUTLETS AND SERVICES TO AVOID INTERRUPTING THE OPERATION OF EXISTING FACILITY.

e. INCLUDE ALL COSTS OF WORKING AFTER NORMAL BUSINESS HOURS IN BID. NO EXTRAS WILL BE ALLOWED.

5. DE-ENERGIZE ALL BRANCH CIRCUITS SERVING OUTLETS AND FEEDERS SERVING PANELS TO BE WORKED ON AS INDICATED ON DRAWINGS AND/OR REQUIRED BY OTHER TRADES TO COMPLETE THE DEMOLITION WORK. PROPERLY TAP- OFF BOTH ENDS OF CONDUCTORS TO BE REMOVED.

6. CIRCUIT BREAKERS IN EXISTING PANELS FEEDING BRANCH CIRCUIT TO BE DE-ENERGIZED AND DISCONNECTED, SHALL REMAIN AS SPARE CIRCUIT BREAKERS AND SHALL BE IDENTIFIED "SPARE" ON PANEL DIRECTORY AND SET TO "OFF" POSITION.

7. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A DEMOLITION PHASING PLAN TO ARCHITECT/ENGINEER PRIOR TO DEMOLITION FOR COMPLETE WORK.

GENERAL NOTES

PART 1 - GENERAL

1.0 GENERAL:

A. THE "GENERAL CONDITIONS OF THE CONTRACT" ARE A PART OF THIS SECTION AND SHALL BE AS BINDING AS IF REPRODUCED HEREIN.

1.1 SCOPE:

A. THE WORK UNDER THIS SECTION SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION OF ALL ELECTRICAL WORK AS INDICATED ON THE ELECTRICAL DRAWINGS AND AS HEREINAFTER SPECIFIED, TOGETHER WITH OTHER ITEMS OF MISCELLANEOUS WORK SO INDICATED, EXCEPTING ONLY WORK CLEARLY INDICATED TO BE DONE UNDER OTHER SECTIONS OF THESE SPECIFICATIONS OR UNDER OTHER CONTRACTS.

1.2 CONTRACT DRAWINGS:

A. IN GENERAL, THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT AND THEIR INTERCONNECTION; AND THOUGH NOT NECESSARILY INDICATING THE ACTUAL PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND IN SPACE AVAILABLE WILL PERMIT. THE DRAWINGS ARE NOT INTENDED TO BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LIMITATIONS OF THE BUILDING STRUCTURE OR FINISH, AND TO THE MECHANICAL DRAWINGS FOR THE LOCATION OF EQUIPMENT OF THOSE TRADES REQUIRING ELECTRICAL SERVICE CONNECTIONS. ANY DISCREPANCY, CONFLICT, OR QUESTIONABLE POINT SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT.

B. "PROVIDE" MEANS FURNISH, INSTALL, AND CONNECT UNLESS OTHERWISE NOTED.

1.3 RECORD DRAWINGS:

A. DURING THE PROGRESS OF THE WORK, MAINTAIN ONE COMPLETE SET OF RECORD DRAWINGS AS OUTLINED UNDER GENERAL NOTE 1.2. AS THE WORK IS INSTALLED, NEATLY AND CLEARLY MARK ON THESE PRINTS THE FOLLOWING INFORMATION:

1. ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS.
2. INFORMATION CONTAINED ON CHANGE ORDERS.
3. DIMENSIONED LOCATIONS OF CONCEALED CONDUITS.
4. DIAGRAMS OF EQUIPMENT CONNECTIONS.

AT THE CONCLUSION OF THE JOB, THESE PRINTS SHALL BE DELIVERED TO THE ARCHITECT.

1.4 CODES, PERMITS, AND INSPECTIONS:

A. NOTHING IN THESE SPECIFICATIONS OR ON THE DRAWINGS SHALL BE INTERPRETED AS PERMISSION TO VIOLATE CODES OR ORDINANCES. ELECTRICAL WORK SHALL CONFORM TO THE LATEST REVISIONS OF THE FOLLOWING CODES AND STANDARDS:

1. NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION.
2. UNDERWRITERS' LABORATORIES
3. LOCAL CODES AND INSPECTION AUTHORITIES.
4. NATIONAL ELECTRICAL CODE FOR ALL ITEMS NOT SPECIFICALLY COVERED BY STATE OF CALIFORNIA OR LOCAL ORDINANCES.

B. INSPECT THE JOB SITE PRIOR TO SUBMITTING A BID AND MAKE ALLOWANCE FOR EXISTING CONDITIONS WHICH MAY AFFECT THE WORK AND ARRANGE FOR AND PAY FOR TESTS AND INSPECTIONS, AND GIVE NOTICES REQUIRED BY ANY AND ALL LAWS, RULES, REGULATIONS, AND ORDINANCES WHICH PERTAIN TO THIS WORK, WHERE ADDITIONS OR ALTERATIONS ARE REQUIRED IN OR AT EXISTING ELECTRICAL INSTALLATION AS INDICATED.

1. INFORMATION GIVEN ON THE DRAWINGS REGARDING EXISTING INSTALLATIONS OR CONDITIONS HAS BEEN OBTAINED FROM THE BEST SOURCES AVAILABLE BUT CANNOT BE GUARANTEED ACCURATE IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION BEFORE PROCEEDING WITH ANY NEW WORK THAT WILL BE AFFECTED. INCLUDE AS A PART OF THE CONTRACT ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT.

2. RELOCATE AND/OR RECONNECT EXISTING CIRCUITS WHERE CONTINUITY HAS BEEN AFFECTED OR AS MAY BE REQUIRED TO PROVIDE FOR NEW CONSTRUCTION.

C. ALL WORK TO COMPLY WITH THE APPLICABLE CODES 2020 CITY OF LOS ANGELES ELECTRICAL CODE (BASED ON 2019 CALIFORNIA ELECTRICAL CODE WITH ADOPTED PORTION OF 2017 NATION ELECTRICAL CODE), 2020 L.A. BUILDING CODE(LABC), 2020 L.A. MECHANICAL CODE (LAMC), 2019 NATIONAL FIRE ALARM CODE (NFPA 72), 2019 CALIFORNIA ENERGY CODE, AND 2020 L.A. GREEN CODE (LAGC).

GENERAL NOTES:

1. PROVIDE REQUIRED WORKING SPACE, ADEQUATE ILLUMINATION AND ACCESS TO WORK SPACE ABOUT ELECTRICAL EQUIPMENT IN ACCORDANCE WITH 2017 N.E.C. AND 2019 C.E.C.

A. EQUIPMENT AND FIXTURES SHALL BE U.L. LISTED OR CITY APPROVED.

ITEMS AND EQUIPMENT INSTALLED EXTERIOR TO STRUCTURES SHALL BE APPROVED FOR WET OR DAMP LOCATIONS, AS APPROPRIATE FOR THE LOCATION.

4. THE OPERATING HANDLE OF FEEDER PROTECTIVE DEVICES, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE MOUNTED A MAXIMUM OF 8'-6" FROM FINISHED FLOOR. OUTLET AND LIGHT SWITCH MOUNTING HEIGHTS SHALL BE AS DIRECTED BY THE ARCHITECT.

5. VERIFY TIME SWITCHES, CONTROL SERVICES LOCATION AND SEQUENCE OF OPERATION WITH OWNER. IT SHALL BE CLEARLY MARKED.

6. SUBSTITUTIONS OF SPECIFIED MATERIAL SHALL BE MADE ONLY WITH WRITTEN APPROVAL FROM THE ENGINEER.

7. ELECTRICAL CONTRACTOR SHALL FOLLOW LATEST ELECTRICAL & ARCHITECTURAL DRAWINGS ISSUED FOR CONSTRUCTION.

8. VERIFY ALL THE MECHANICAL WORK WITH THE MECHANICAL ENGINEER.

9. CONNECT COMPLETE TOILET EXHAUST FANS AND COMBINATION FIRE SMOKE DAMPER. PROVIDE REQUIRED RATED CONTROL SENSORS, SWITCHES, AND DISCONNECT SWITCH IN SIGHT FOR EACH EQUIPMENT, TYPICAL. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.

10. CONNECT T-STAT AS PER MECHANICAL DRAWINGS.

11. CONNECT COMPLETE KITCHEN EQUIPMENT AS PER KITCHEN CONSULTANT PLAN.

12. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND FOLLOW THE LATEST STRUCTURAL DRAWING AND ROUTE CONDUIT AROUND SHEER WALLS. NO PENETRATIONS SHALL BE MADE THROUGH ANY SHEER WALL WITHOUT EXPRESS APPROVAL FROM THE STRUCTURAL ENGINEER.

13. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) COMBINATION TYPE PROTECTION ON ALL BRANCH CIRCUITS SERVING OUTLETS IN THE DWELLING UNITS EXCEPT IN THE BATHROOMS AND GARAGES, TYPICAL.

14. ALL 125 VOLTS 15 AND 20 AMPERE RECEPTACLE OUTLETS AS REQUIRED IN SECTION 220.52 IN DWELLING UNITS SHALL BE TAMPER-RESISTANCE TYPE, TYPICAL.

15. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL ON RECEPTACLE OUTLETS LOCATED IN THE FOLLOWING:

- A. ALL OCCUPANCIES: BATHROOMS, GARAGES, KITCHENS, OUTDOORS, AND WITHIN 6' OF THE EDGE OF SINKS.
- B. DWELLING UNITS: ACCESSORY BUILDING WITH FLOORS AT OR BELOW GRADE, CRAWL SPACES, UNFINISHED BASEMENTS, BOATHOUSES, LAUNDRY AREAS, AND WITHIN 6' OF THE OUTSIDE EDGE OF SHOWER STALLS AND BATHTUBS.
- C. OTHER THAT DWELLING UNITS: ROOFTOPS, SERVICE BAYS, INDOOR WET LOCATIONS, LOCKER ROOMS WITH SHOWER FACILITIES, AT PUBLIC TIRE INFLATION AND AUTOMATIC VACUUM MACHINES.

16. ALL RECEPTACLE OUTLETS IN THE KITCHEN AREA AND LAUNDRY AREA SHALL BE GFCI TYPE. IF RECEPTACLE OUTLET ARE INSTALLED AT THE BACK OF A LARGE EQUIPMENT (LIKE THE WASHING MACHINE, DRYER, DISHWASHER, ETC.), THEN THE RECEPTACLE OUTLET SHALL BE NON-GFCI TYPE, BUT THE CIRCUIT BREAKER THAT FEED THE OUTLET SHALL BE GFCI TYPE, TYPICAL.

17. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDER.

PART 2 - PRODUCTS

2.1 GENERAL:

A. ALL MATERIALS USED IN THE ELECTRICAL WORK HEREIN SPECIFIED SHALL BE NEW AND SUITED TO THE USE INTENDED AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC. AND SHALL MEET THEIR REQUIREMENTS AND BEAR THEIR LABEL WHENEVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIAL WHICH IN HIS OPINION IS NOT IN COMPLIANCE WITH THIS SPECIFICATION, EITHER BEFORE OR AFTER INSTALLATION. ALL MATERIALS SHALL BE OF THE TYPES OR MAKES HEREINAFTER SPECIFIED, AND NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT SUBMITTAL FOR REVIEW BY THE ARCHITECT. "PRODUCTS" AND "MATERIALS" ARE USED INTERCHANGEABLY AND MEAN MATERIALS, FIXTURES AND EQUIPMENT.

2.2 CONDUIT:

A. PROVIDE ONLY NEW CONDUIT WITH UL LISTING OR LABEL AND DELIVER TO THE SITE IN STANDARD LENGTHS. UNLESS OTHERWISE INDICATED, PROVIDE CONDUITS FOR ALL TYPES OF CONDUCTORS OR CABLES OF ALL SYSTEMS AND VOLTAGES.

1. RIGID STEEL CONDUIT AND COUPLINGS: HOT-DIPPED GALVANIZED OR SHERARIZED INSIDE AND OUT, WITH GALVANIZED THREADS. PROVIDE INSULATED METALLIC BUSHINGS EXCEPT THAT SIZES 1 INCH AND SMALLER SHALL BE NONMETALLIC TYPE.

2. ELECTRICAL METALLIC STEEL TUBING: HOT-DIPPED GALVANIZED OR SHERARIZED INSIDE AND OUT. PROVIDE INSULATED AND BUSHED TAP-ON TYPE CONNECTORS AND COUPLINGS AS MADE BY TOMIC OR T & B, OR WRENCH TIGHTENED COMPRESSION TYPE.

3. FLEXIBLE CONDUIT: MANUFACTURED FROM ALUMINUM OR SINGLE STRIP GALVANIZED STEEL. PROVIDE INSULATED AND DIE-CAST CONNECTORS WITH RIDGES THAT THREAD INTO THE INSIDE OF THE CONDUIT TO INSURE A FORCE FIT AS MADE BY D & H ELECTRICAL COMPANY OR EQUAL.

4. LIQUID TIGHT FLEXIBLE CONDUIT: IDENTICAL TO FLEXIBLE STEEL CONDUIT BUT WITH OVERALL POLYVINYL CHLORIDE PLASTIC JACKET. PROVIDE INSULATING CONNECTORS, APPLETON SIN SERIES OR EQUAL.

5. RIGID PLASTIC CONDUIT: EXTRUDED FROM VIRGIN POLYVINYL CHLORIDE COMPOUND, SCHEDULE 40 HEAVY WALL, IN 10'-0" LENGTHS WITH COUPLINGS.

2.3 WIRE AND CABLE:

A. ALL WIRE AND CABLE SHALL BE ANNEALED COPPER WITH 98% CONDUCTIVITY AND 800-VOLT INSULATION.

1. CONDUCTORS NO.10 AWG AND SMALLER SHALL BE SOLID TYPE THIN OR THIN INSULATION; NO.8 AWG AND LARGER SHALL BE STRANDED TYPE THIN OR THIN INSULATION. USE TYPE THIN IN WET LOCATIONS, IN CONDUITS INSTALLED WITHIN OR JUST UNDER ROOFING MATERIALS AND FOR ALL AREAS EXTERIOR TO BUILDINGS.

2.4 LIGHTING FIXTURES:

A. PROVIDE RECESSED, SURFACE AND PENDANT MOUNTED LIGHTING FIXTURES, COMPLETE WITH LAMPS, AND BALLASTS WHERE REQUIRED, AS SHOWN OF THE DRAWINGS AS SPECIFIED.

1. FLUORESCENT BALLASTS OF PROPER TYPE AND CHARACTERISTICS FOR THE LAMPS IN THE FIXTURE AND WITH VOLTAGE RATING AS REQUIRED BY THE CIRCUIT WHICH THE FIXTURE IS CONNECTED.

2. PROVIDE LAMPS AS INDICATED ON THE DRAWINGS.

2.5 WIRING DEVICES:

A. WIRING DEVICES SHALL BE OF THE MOLDED COMPOSITION SPECIFICATION GRADE. ALL DEVICES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED AND WITH FINISH MATCHING DEVICE PLATES. LOCAL SWITCHES SHALL HAVE ALTERNATING CURRENT RATINGS EQUAL TO FULL NOMINAL CAPACITY.

1. RECEPTACLES: PROVIDE TYPE IN ACCORDANCE WITH NEMA STANDARD CONFIGURATION AS SHOWN.

2. SWITCHES: SINGLE POLE, 3-WAY AND 4-WAY AS SHOWN, FINISH AS SELECTED.

3. PROVIDE PLATES FOR ALL OUTLET BOXES AND FITTINGS OF ALL SYSTEMS EXCEPT AT OUTLETS WHERE FIXTURE CANOPES ARE USED.

2.6 NAMEPLATES:

A. PROVIDE A NAMEPLATE FOR EACH PANEL BOARD, DISCONNECT SWITCH, AND FOR ANY OTHER CONTROL DEVICE OR MAJOR ITEM OF ELECTRICAL EQUIPMENT, AS FOLLOWS:

1. PROVIDE BLACK-ON-WHITE LAMINATED PLASTIC NAMEPLATES ENGRAVED IN 1/4" HIGH LETTERS TO CORRESPOND WITH THE DESIGNATIONS ON THE DRAWINGS. PROVIDE OTHER OR ADDITIONAL INFORMATION ON NAMEPLATES WHERE INDICATED.

2. ATTACH NAMEPLATES TO EQUIPMENT WITH RIVETS, BOLTS, OR APPLICABLE SHEET METAL SCREWS. GLUE-ON TYPES AND POP RIVET TYPES ARE NOT ACCEPTABLE.

3. PROVIDE DEMO TYPE PLASTIC TAPE FOR EACH RECEPTACLE AND J-BOX INDICATING CIRCUIT NUMBERS AND PANEL. PROVIDE ADDITIONAL INFORMATION AS INDICATED ON THE DRAWINGS. THE COLOR CODE FOR THE TAPES SHALL BE AS FOLLOWS:

A. ORANGE FOR ISOLATED GROUND CIRCUITS.

B. GREEN FOR STANDARD 120V CIRCUITS.

2.7 OUTLETS:

A. OUTLET AND JUNCTION BOXES USED IN CONCEALED WORK, SHALL BE GALVANIZED OR SHERARIZED ONE-PIECE, PRESSED STEEL KNOCKOUT TYPE SIZED IN ACCORDANCE WITH THE CODE FOR THE NUMBER OF CONDUCTORS OR THE NUMBER AND SIZE OF CONDUITS ENTERING THE BOX, BUT SHALL NOT BE LESS THAN 4" SQUARE AND 1-1/2" DEEP. PLASTER RINGS SHALL BE PROVIDED FOR ALL FLUSH MOUNTED BOXES.

2.8 PANEL BOARDS:

A. PROVIDE RECESSED MOUNTED PANEL BOARDS WITH MAIN LUGS, SUB FEED LUGS, BUS SIZE AND CIRCUIT BREAKERS OF A RATING AS SHOWN ON THE DRAWINGS.

B. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH INTERRUPTING CAPACITY AS INDICATED ON THE PANEL SCHEDULES AND SHALL BE SERIES RATED WITH FEEDER OVER CURRENT DEVICES.

C. PROVIDE NEATLY TYPED CIRCUIT DIRECTORY CARD, CLEARLY IDENTIFYING ALL CIRCUITS, MOUNTED IN A CARD HOLDER, BEHIND HEAVY PLASTIC ON THE INSIDE OF THE HINGED DOOR.

PART 3 - EXECUTION

3.1 MATERIALS AND WORKMANSHIP:

A. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER TO CONFORM WITH THE CONTRACT DOCUMENTS. THE INSTALLATION SHALL BE ACCOMPLISHED IN CONFORMANCE WITH THE APPLICABLE RULES.

3.2 WIRE AND WIRING METHODS:

A. ALL WIRING AND CABLE INCLUDING LOW VOLTAGE AND CONTROL CIRCUITS SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.

1. COLOR CODE ALL BRANCH CIRCUIT AND CONTROL CIRCUIT WIRING BY MEANS OF FACTORY COLOR CODED CONDUCTORS. EACH PHASE SHALL BE THE SAME COLOR THROUGHOUT THE SYSTEM AND SHALL BE A DIFFERENT COLOR FROM OTHER PHASES AND OTHER SYSTEMS THE IDENTIFIED NEUTRAL CONDUCTOR SHALL BE WHITE, AND GROUND WIRES SHALL BE GREEN.

3.3 CONDUIT AND TUBING:

A. EXCEPT WHEN OTHERWISE INDICATED AS MORE STRINGENT, PROVIDE THE TYPE OF CONDUIT LEGALLY PERMITTED OR REQUIRED FOR EACH LOCATION OR CONDITION. UNLESS OTHERWISE INDICATED, CONDUITS SHALL BE CONCEALED WHERE POSSIBLE WITHIN OR BEHIND FINISHED WALLS OR CEILINGS.

1. ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY WITHIN BUILDINGS ABOVE GRADE IN DRY LOCATIONS AND WHERE NOT SUBJECT TO MECHANICAL INJURY OR OTHERWISE PROHIBITED.

2. USE FLEXIBLE CONDUIT ONLY AS FOLLOWS:

- a) WHERE INDICATED.
- b) CONCEALED RUNS IN DRY LOCATIONS WHERE STRUCTURAL CONDITIONS PREVENT THE USE OF OTHER TYPES OF CONDUIT.
- c) FINAL CONNECTION TO VIBRATING EQUIPMENT.
- d) CONNECTION TO RECESSED LIGHT FIXTURES FROM NEARBY JUNCTION BOX.

3. RIGID PLASTIC CONDUITS SHALL BE INSTALLED FOR UNDERGROUND WORK.

4. USE RIGID METAL CONDUIT WHERE LEGALLY REQUIRED, WHERE EXPOSED TO THE WEATHER; ALSO WHERE SUBJECT TO MECHANICAL INJURY.

B. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC CONDUIT EXCEPT AS PERMITTED BELOW. GRC SHALL BE USED IN ALL AREAS. IMC SHALL BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH. EMT SHALL BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH, NOT IN CONCRETE SLABS OR WALLS AND NOT SUBJECT TO DAMAGE. PVC SHALL BE USED IN OR BELOW CONCRETE AND DIRECT BURIED IN EARTH. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT NOT TO EXCEED 36".

2. WHERE THE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN BY DOUBLE LOCKBUTTS AND BUSHINGS (GRC AND IMC ONLY), FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. RUN EXPOSED CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS.

3. COVER METALLIC CONDUIT IN CONTACT WITH EARTH OR FILL WITH POLYETHYLENE TAPE SPIRAL WRAPPED, 1/2" LAPPED TO PROVIDE DOUBLE THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE. CONDUIT AND DUCTS NOT UNDER BUILDINGS AND FEEDER DUCTS SHALL BE INSTALLED PER NEC 300.5, EXCEPT THAT THE BENDS IN CONDUIT LARGER THAN 1" IN DIAMETER SHALL BE MADE WITH GALVANIZED STEEL CONDUIT TREATED AS NOTED ABOVE. MAKE JOINTS WITH COMPOUND TO BE WATER TIGHT.

4. CONDUIT SIZES SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED ON DRAWINGS. NO CONDUIT SMALLER THAN 3/4 INCH TRADE SIZE SHALL BE USED.

5. PENETRATION THROUGH FLOOR SLABS WHERE SUBJECT TO DAMAGE SHALL BE IN WRAPPED RIGID STEEL. SCHEDULE 40 PVC ELBOWS AND PENETRATIONS MAY BE USED IN SLAB ON GRADE WHERE PENETRATIONS OCCUR IN PROTECTED AREAS (WALLS, ELECTRICAL ROOMS, ETC.).

6. CONDUITS AND OUTLETS SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE, EXCEPT THAT CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS. CONDUIT SHOWN TO BE INSTALLED IN CABINETS, COUNTERTOPS, AND CASEWORK SHALL BE RUN AS DIRECTED BY THE ENGINEER.

7. ALL CONDUIT SERVING ROOF MOUNTED EQUIPMENT AND DEVICES INCLUDING HVAC EQUIPMENT, GFCI MAINTENANCE RECEPTACLES AND DUCT TYPE SMOKE DETECTORS SHALL BE ROUTED IN THE CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.

8. FLEXIBLE METALLIC AND NON-METALLIC CONDUIT SYSTEMS SHALL HAVE A CODE SIZED COPPER GROUND CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.

9. FLEXIBLE METAL CONDUIT/CUT-IN BOXES FOR LOW VOLTAGE SYSTEMS (TEL/DATA) MAY BE USED IN WALL CAVITIES PROVIDED THE INSTALLATION COMPLIES WITH NEC ARTICLE 348. ALL CONDUIT FOR LOW VOLTAGE WIRING SYSTEMS IN NEW WALL PARTITIONS SHALL BE EMT. FLEXIBLE METAL CONDUIT FOR THESE SYSTEMS IS NOT ACCEPTABLE IN NEW WALLS.

10. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE A 200 POUND TEST PULL CORD INSTALLED TO FACILITATE INSTALLATION OF FUTURE WIRE.

3.4 LIGHTING FIXTURES:

A. FURNISH AND INSTALL FIXTURES COMPLETE IN CONFORMANCE WITH THE SPECIFICATION, THE REQUIREMENTS SPECIFIED BELOW, AND DETAILED ON THE DRAWINGS. DETAILS SHOWN ON THE DRAWINGS ARE INDICATIVE OF THE GENERAL TYPE DESIRED AND ARE NOT INTENDED TO RESTRICT SELECTION TO FIXTURES OF ANY PARTICULAR MANUFACTURER. (SUBMIT FOR ARCHITECT'S APPROVAL)

1. LIGHTING FIXTURES SHALL BE SET PLUMB, SQUARE, LEVEL, AND IN ALIGNMENT AND SHALL BE SECURED IN ACCORDANCE WITH THE MANUFACTURERS' DIRECTIONS AND SHOP DRAWINGS EXCEPT AS OTHERWISE NOTED. ACCESSORIES SUCH AS STRAPS, MOUNTING PLATES, NIPPLES, OR BRACKETS SHALL BE PROVIDED FOR PROPER INSTALLATION.

2. FOR FLUORESCENT FIXTURES, THE CATALOG NUMBERS ARE THOSE FOR INDIVIDUAL UNITS, WHERE CONTINUOUS ROWS ARE INDICATED, PROVIDE ALL NECESSARY ACCESSORIES, WHERE SINGLE-LAMP FIXTURES ARE INDICATED IN CONTINUOUS ROWS PROVIDE TANDDEM UNITS WITH 2-LAMP BALLASTS WHEREVER POSSIBLE.

3. LAMPS OF THE PROPER SIZE, TYPE, WATTAGE, AND VOLTAGE RATINGS AS INDICATED ON THE DRAWINGS SHALL BE DELIVERED TO THE PROJECT IN THE ORIGINAL CARTONS AND INSTALLED IN THE FIXTURES JUST PRIOR TO THE COMPLETION OF THE PROJECT. LAMPS THAT HAVE BEEN USED DURING THE CONSTRUCTION SHALL BE REPLACED WITH NEW UNITS SO AS TO ASSURE A NEW INSTALLATION AT THE TIME OF FINAL ACCEPTANCE.

4. ELECTRICAL CONTRACTOR SHALL CONNECT COMPLETE ALL THE FIXTURES SUPPLIED BY THE OWNER.

5. FOR OUTSIDE COMMON AREA LIGHTING ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT TYPE OF CONTROL REQUIRED WITH THE OWNER/ARCH. PRIOR TO ANY INSTALLATION PROVIDE THE NECESSARY CONTROL SYSTEM AS DIRECTED & CONNECT COMPLETE WITH NO EXTRA CHARGE "NO EXTRA ALLOWED".

6. PROVIDE 365 DAY ASTRONOMICAL TIMER CLOCK FOR ALL ITS. EXTERIOR LIGHTING CIRCUITS. EQUIPMENT CONNECTIONS:

A. ALL WIRING FOR THE CONNECTION OF MOTORS AND CONTROL EQUIPMENT AS INDICATED ON THE DRAWING SHALL BE FURNISHED AND INSTALLED UNDER THIS SECTION OF THESE SPECIFICATIONS. FLEXIBLE CONNECTIONS OF SHORT LENGTH SHALL BE PROVIDED FOR EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT AND FOR ALL MOTORS. LIQUID-TIGHT FLEXIBLY CONDUIT SHALL BE USED IN WET LOCATIONS. A SEPARATE GROUND CONDUCTOR SHALL BE PROVIDED ACROSS ALL FLEXIBLE CONNECTIONS.

3.5 TESTS:

A. IN ADDITION TO TESTS REQUIRED BY OTHER SECTIONS, PERFORM OR CAUSE TO BE PERFORMED, ANY TESTS SPECIFIED FOR ELECTRICAL WORK WHEN THE WORK IS SUBSTANTIALLY COMPLETE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. UPON COMPLETION OF THE WORK AND ADJUSTMENT OF ALL EQUIPMENT, CONDUCT AN OPERATING TEST AND SUBMIT FOR APPROVAL AT SUCH TIME AS THE ARCHITECT DIRECTS. CONDUCT THE TEST IN THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF THE ARCHITECT. DEMONSTRATE THAT ALL SYSTEMS AND EQUIPMENT ARE:

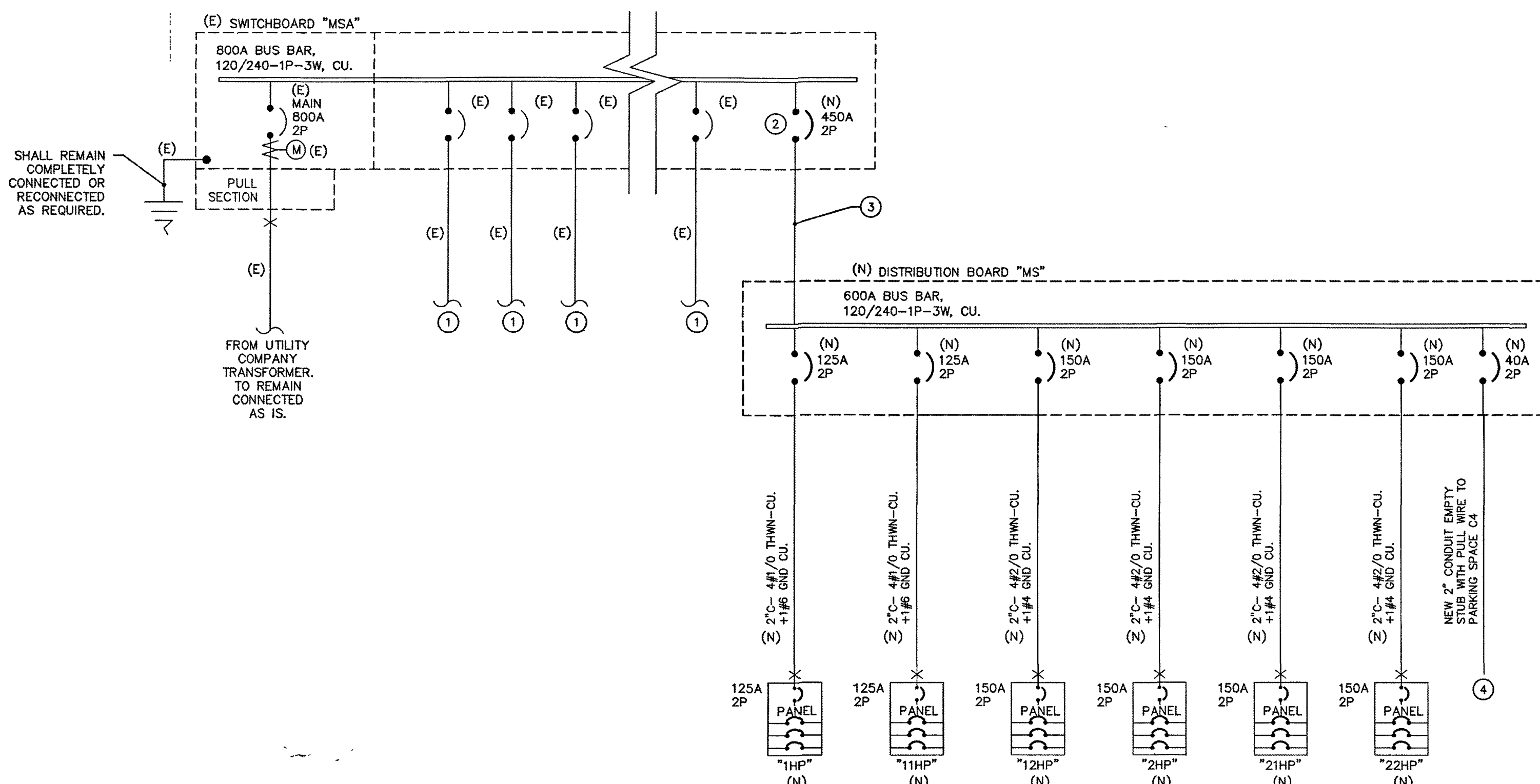
- a) OPERATING IN ACCORDANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- b) FREE FROM ALL ELECTRICAL AND MECHANICAL DEFECTS.
- c) FREE FROM SHORT CIRCUITS AND GROUNDS OTHER THAN INTENTIONAL GROUNDS.

2. CONDUCT ALL OTHER AND ADDITIONAL TESTS THAT ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION OR ARE REQUESTED BY THE ARCHITECT.

3. ALL COSTS INCURRED, INCLUDING REQUIRED INSTRUMENTS AND PERSONNEL FOR THE TESTS, SHALL BE PAID FOR BY THE CONTRACTOR.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	LIGHT OUTLET
	3-SWITCH DESIGNATION 3-ORIG. NO. (SEE PANEL)
	A-FIXTURE TYPE (SEE SCHEDULE)
	HOME RUN CONDUIT CONCEALED IN WALL OR CEILING. CROSS LINES INDICATE NUMBER OF THIN/THIN U.O.N.
	THREE PHASE WIRES WITH DEDICATED NEUTRAL WIRES AND ONE GROUND WIRE
	THREE PHASE WIRES WITH COMMON NEUTRAL WIRE AND ONE GROUND WIRE
	THREE PHASE WIRES WITH NO NEUTRAL WIRE AND ONE GROUND WIRE
	CONDUIT RUN IN FLOOR OR U.G.
	CONDUIT RUN/EXPOSED
	CONDUIT STUB UP
	CONDUIT STUB DOWN
	SOUND SYSTEM CONDUIT
	TELEPHONE CONDUIT ONLY
	CONDUIT SEAL
	GROUND CONNECTION
	CONDUIT STUB OUT WITH CAP
	PANEL MOUNTED CIRCUIT BREAKER
	PANEL MOUNTED FUSED SWITCH
	SINGLE POLE SWITCH 45° AFF. O.C. U.O.N.
	TWO POLE SWITCH 45° AFF. O.C. U.O.N.
	THREE WAY SWITCH 45° AFF. O.C. U.O.N.
	MOMENTARY CONTACT SWITCH
	MOTOR RATED SWITCH
	DISCONNECT SWITCH, FUSED
	DISCONNECT SWITCH, NON FUSED
	DIMMER SWITCH
	PUSH BUTTON
	MAGNETIC MOTOR STARTER
	PANEL BOARD
	SWITCHBOARD
	TERMINAL CABINET
	TELEPHONE BACKBOARD
	SURFACE RACEWAY
	TRANSFORMER
	MOTOR CONNECTION
	120V, 15A DUPLEX RECEPT. 15° AFF. O.C. U.O.N.
	120V, 20A DUPLEX RECEPTACLE 15° AFF. O.C. U.O.N.
	200/250V RECEPTACLE 15° AFF. O.C. U.O.N.
	FLOOR MOUNTED RECEPTACLE/CEILING
	RECEPTACLE WITH G.F.C.I. TYPE 15° AFF. O.C. U.O.N.
	ISOLATED GROUND RECEPTACLE 15° AFF. O.C. U.O.N.(I.G.)
	HALF SWITCHED RECEPTACLE 15° AFF. O.C. U.O.N.
	200/250V RECEPTACLE 15° AFF. O.C. U.O.N.
	SPECIAL RECEPTACLE 15° AFF. O.C. U.O.N.
	LOCK ON DEVICE
	JUNCTION BOX
	FLOOR MOUNTED J-BOX
	ALL TELEPHONE OUTLET TO BE FURNISHED WITH 4 PAIR 8/24 CAT - 5 TYP. 15° AFF. O.C. U.O.N.
	ALL TELEPHONE OUTLET TO BE FURNISHED WITH 4 PAIR 8/24 CAT - 5 TYP. FLOOR/CEILING MOUNTED
	TELEPHONE/DATA OUTLET 15° AFF. O.C. U.O.N.
	DATA OUTLET 15° AFF. O.C. U.O.N.
	INTERCOM OUTLET
	SPEAKER OUTLET
	CLOCK OUTLET
	THERMOSTAT OUTLET 48° AFF. O.C. U.O.N.
	CABLE TV OUTLET
	ILLUMINATED EXIT SIGN (WALL OR CLG.)
	SMOKE DETECTOR
	DOOR BELL PUSH BUTTON
	DOOR BELL



SCALE: N.T.S.

SPECIFIC NOTES:

- EXISTING LOADS TO REMAIN COMPLETELY CONNECTED OR RECONNECTED AS REQUIRED. TYPICAL TO ALL EXISTING PANELS, UNLESS NOTED TO BE DEMO.
- THIS NEW CIRCUIT BREAKERS IN MAIN SWITCHBOARD "MSA" SHALL MATCH THE EXISTING AIC RATING OF THE EXISTING CIRCUIT BREAKER ON THE EXISTING SWITCHBOARD "MSA". IF SPACE FOR THE NEW CIRCUIT BREAKER ON THE EXISTING SWITCHBOARD "MSA" IS NOT AVAILABLE, PROVIDE A BUS TAP ON THE EXISTING SWITCHBOARD BUS BAR AND LOCATE THE 600A FUSE DISCONNECTING SWITCH WITH (3) 500A FUSES WITHIN 10' OR 25' FROM THE BUS TAP.
- USED 2 PARALLEL SET OF 3" C-4#300 KCMIL CU + 1#1/2 GND CU. THIS FEEDER CONDUCTOR SIZE IS GOOD FOR THE CIRCUIT BREAKER INSTALLED ON THE EXISTING SWITCHBOARD "MSA" OR THE BUS TAP IS MADE WITH THE 600A FUSE DISCONNECTING SWITCH WITH 450A FUSE.
- VERIFY WITH ARCHITECT FOR EXACT LOCATION.

GENERAL NOTES

- ALL DRY LOCATION CONDUIT IS METAL, ALL CONDUCTORS ARE COPPER TYPE "THHN/THWN" U.O.N.
- ALL TERMINATION SHALL BE RATED FOR 75 DEGREES CELSIUS CONNECTIONS FOR COPPER CONDUCTORS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE DISTRIBUTION BOARD FOR APPROVAL PRIOR TO ORDERING EQUIPMENT.
- A.I.C. OF THE NEW DISTRIBUTION BOARD SHALL NOT BE LESS THAN THE AVAILABLE A.I.C. ON THE EXISTING SWITCHBOARD "MSA" AND ALSO WITH THE NEW PANEL A.I.C., TYPICAL.
- ALL METALLIC CONDUIT SHALL BE GROUNDED.
- ALL ELECTRICAL PANELS, DISTRIBUTION BOARD, EQUIPMENT, SWITCHES AND ETC., THAT ARE INSTALLED ON EXTERIOR LOCATIONS SHALL BE RATED FOR WET LOCATION AND WEATHERPROOF.
- PROVIDE WEATHERPROOF SEAL TO ALL EXTERIOR PENETRATION.
- PROVIDE PERMANENT LABEL ON EACH OF THE NEW DISTRIBUTION BOARD AND NEW PANELS.

LOAD CALCULATION FOR RESIDENTIAL UNITS ON THE 1ST & 2ND FLOOR (1130 BROADWAY STREET KING CITY, CA. 95930)

GENERAL LOADS						APPLICATION OF DEMAND FACTOR												OTHER LOADS					
UNIT PANEL	METER NO.	UNIT NO.	UNIT AREA (FT²)	LTG @ 3VA/FT²	SMALL APPL. LOAD	LAUNDRY	SUB-TOTAL	1ST TO 100,000VA @ 100%	FROM 3,000VA TO 120,000VA @ 35%	NET IMPORTED LOAD	GARBAGE DISPOSAL	DISH WASHER	EXHAUST HOOD	EXHAUST FAN	SUB-TOTAL	RANGE	PTAC	SUB-TOTAL	NET COMPUTED LOAD (VA)	UNIT AMPERE			
101	1	1	300	900	2,999		3,899	3,000	315	3,315					48	64	1,200	3,500	3,500	8,714	36 A		
102	1	1	300	900	3,000		3,900	3,000	315	3,315					48	64	1,200	3,500	3,500	8,714	36 A		
103	1	1	296	888	3,000		3,888	3,000	311	3,311					48	64	1,200	3,500	3,500	8,710	36 A		
104	1	1	296	888	3,000		3,888	3,000	311	3,311					48	64	1,200	3,500	3,500	8,710	36 A		
105	1	1	300	900	3,000		3,900	3,000	315	3,315					48	64	1,200	3,500	3,500	8,714	36 A		
106	1	1	296	888	3,000		3,888	3,000	311	3,311					48	64	1,200	3,500	3,500	8,710	36 A		
107	1	1	305	915	3,000		3,915	3,000	320	3,320					48	64	1,200	3,500	3,500	8,719	36 A		
108	1	1	309	927	3,000		3,927	3,000	324	3,324					48	64	1,200	3,500	3,500	8,723	36 A		
109	1	1	299	897	3,000		3,897	3,000	314	3,314					48	64	1,200	3,500	3,500	8,713	36 A		
110	1	1	302	906	3,000		3,906	3,000	317	3,317					48	64	1,200	3,500	3,500	8,716	36 A		
111	1	1	291	873	3,000		3,873	3,000	306	3,306					48	64	1,200	3,500	3,500	8,705	36 A		
112	1	1	299	897	3,000		3,897	3,000	314	3,314					48	64	1,200	3,500	3,500	8,713	36 A		
114	1	1	292	876	3,000		3,876	3,000	307	3,307					48	64	1,200	3,500	3,500	8,706	36 A		
115	1	1	309	927	3,000		3,927	3,000	324	3,324					48	64	1,200	3,500	3,500	8,723	36 A		
116	1	1	287	861	3,000		3,861	3,000	301	3,301					48	64	1,200	3,500	3,500	8,700	36 A		
117	1	1	359	1,077	3,000		4,077	3,000	377	3,377					48	64	1,200	3,500	3,500	8,776	37 A		
118	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
119	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
120	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
121	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
122	1	1	357	1,071	3,000		4,071	3,000	375	3,375					48	64	1,200	3,500	3,500	8,774	37 A		
123	1	1	502	1,506	3,000		4,506	3,000	527	3,527					48	64	1,200	3,500	3,500	8,926	37 A		
124	1	1	372	1,116	3,000		4,116	3,000	391	3,391					48	64	1,200	3,500	3,500	8,790	37 A		
125	1	1	780	2,340	3,000	3,000	6,340	3,000	1,869	4,569	1,587	1,200			48	64	2,851	10,500	10,500	25,455	106 A		
201	1	1	304	912	3,000		3,912	3,000	319	3,319					48	64	1,200	3,500	3,500	8,718	36 A		
202	1	1	300	900	3,000		3,900	3,000	315	3,315					48	64	1,200	3,500	3,500	8,714	36 A		
203	1	1	296	888	3,000		3,888	3,000	311	3,311					48	64	1,200	3,500	3,500	8,710	36 A		
204	1	1	296	888	3,000		3,888	3,000	311	3,311					48	64	1,200	3,500	3,500	8,710	36 A		
205	1	1	300	900	3,000		3,900	3,000	315	3,315					48	64	1,200	3,500	3,500	8,714	36 A		
206	1	1	296	888	3,000		3,888	3,000	311	3,311					48	64	1,200	3,500	3,500	8,710	36 A		
207	1	1	305	915	3,000		3,915	3,000	320	3,320					48	64	1,200	3,500	3,500	8,719	36 A		
208	1	1	309	927	3,000		3,927	3,000	324	3,324					48	64	1,200	3,500	3,500	8,723	36 A		
209	1	1	299	897	3,000		3,897	3,000	314	3,314					48	64	1,200	3,500	3,500	8,713	36 A		
210	1	1	302	906	3,000		3,906	3,000	317	3,317					48	64	1,200	3,500	3,500	8,716	36 A		
211	1	1	291	873	3,000		3,873	3,000	306	3,306					48	64	1,200	3,500	3,500	8,705	36 A		
212	1	1	299	897	3,000		3,897	3,000	314	3,314					48	64	1,200	3,500	3,500	8,713	36 A		
214	1	1	292	876	3,000		3,876	3,000	307	3,307					48	64	1,200	3,500	3,500	8,706	36 A		
215	1	1	309	927	3,000		3,927	3,000	324	3,324					48	64	1,200	3,500	3,500	8,723	36 A		
216	1	1	287	861	3,000		3,861	3,000	301	3,301					48	64	1,200	3,500	3,500	8,700	36 A		
217	1	1	359	1,077	3,000		4,077	3,000	377	3,377					48	64	1,200	3,500	3,500	8,776	37 A		
218	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
219	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
220	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
221	1	1	361	1,083	3,000		4,083	3,000	379	3,379					48	64	1,200	3,500	3,500	8,778	37 A		
222	1	1	357	1,071	3,000		4,071	3,000	375	3,375					48	64	1,200	3,500	3,500	8,774	37 A		
223	1	1	502	1,506	3,000		4,506	3,000	527	3,527					48	64	1,200	3,500	3,500	8,926	37 A		
224	1	1	372	1,116	3,000		4,116	3,000	391	3,391					48	64	1,200	3,500	3,500	8,790	37 A		
TOTAL:		47	15,814	47,442	140,999	3,000	191,441			158,655	1,587	1,200	752	2,256	5,795		63,220	214,375		171,500	427,685		

NOTE: (U) SUM[A+B+C+D] = 431,936 VA

USE OPTIONAL CALCULATION - TABLE 220.84, 46-50 UNITS @ 25 %
NET DEMAND LOADS: = 112,303 VA
MINIMUM FEEDER AMPERES @ 240 /120V, 1Ø, 3W: = 468 AMPS
CALCULATION OF EXISTING AND NEW LOADS ON THE UNITS TOTAL LOAD: = 468 AMPS

LOAD SUMMARY - FOR THE MAIN SWITCHBOARD "MSA"

LOAD DESCRIPTION:										SUBTOTAL		TOTAL		AMPS		
										FDR VA		MINIMUM FDR VA				
HOUSE PANEL (COMMON AREA) LOADS: #100										=	8,733	S.F.				
GENERAL LIGHTING LOADS:										3	VA/S.F.	=	8,219			
PERIMETER LIGHTING LOADS:										0.14	VA/S.F.	x	31,620	S.F.	=	4,427
EXTERIOR COMMON AREA LOADS:										0.16	VA/S.F.	x	4,680	S.F.	=	2,428
ESTIMATED SIGN CIRCUIT LOAD:										1	UNIT	x	1,500	VA/UNIT	=	1,875
HVAC/FAN UNIT ON COMMON AREA:										6	VA/S.F.	x	2,073	S.F.	=	16,564
GATE MOTOR										4	UNIT	x	1,200	VA/UNIT	=	4,800
COMMON LAUNDRY MACHINES										4	UNIT	x	1,500	VA/UNIT	=	6,000
TOTAL COMMERCIAL LOADS/UNIT: (120/ 240 V, 1 PHASE, 3W)																42,701
TOTAL UNIT LOAD WITH SAFETY FACTOR OF:										1.5	=				<u>64,052</u>	<u>267</u>
SUB-TOTAL LOADS OF HOUSE PANEL LOADS: (120/ 240 V)											=				<u>64,052</u>	<u>267</u>
SUB-TOTAL LOADS OF UNIT LOADS: (120/ 240 V)											=				<u>112,303</u>	<u>468</u>
OVER ALL TOTAL LOADS FOR SWITCHBOARD "MSA": (120/240 V)											=				<u>176,355</u>	<u>735</u>
SERVICE OF SWITCHBOARD "MSA" SHALL BE (1 800 AMPERE AT 120/240V, 1 PHASE, 3W																

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**DAYS INN KING CITY
HOSPITALITY**

1130 BROADWAY STREET
KING CITY, CA 95330

creative engineering group

CREATIVE ENGINEERING GROUP

7123 REMMET AVE.
CANOGA PARK, CA 91303
PHONE: (818) 989-0415
FAX: (818) 989-0215
WEBSITE: www.C-E-G.com

SEAL AND STAMP



ISSUE DATES	DATE
DESCRIPTION	
MEP REVISION	02/22/2023
JOB	
SCALE:	AS SHOWN
DRAWN:	CEG
DATE:	02/22/2023
SHEET TITLE	

**PANEL
SCHEDULES 1**

SHEET NO

E-1.2

(N)PNL 21HP
VOLTAGE: 120/240 VOLTS 1 PHASE, 3 WIRE
BUS RATING: 225 AMPS
MAIN: 150A MCB
LOCATION:

CB OPT: AIC RATING: SURFACE MOUNTED

LOAD TYPE	LOAD (VA)	CN	LOAD SERVED	CB	C-FAULT	CB	LOAD SERVED	CN	LOAD (VA)	LOAD TYPE
RESIDENTIAL	1500	1	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (1) RANGE (20)	2	1500	HEAT
RESIDENTIAL	1500	2	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	3	1500	RESIDENTIAL
HEAT	1500	3	(N) (1) RANGE (20)	201	A	201	(N) (2) KITCHEN APR. (20)	4	1500	RESIDENTIAL
HEAT	1500	4	(N) (1) RANGE (20)	201	B	201	(N) (2) KITCHEN APR. (20)	5	1500	RESIDENTIAL
RESIDENTIAL	1500	5	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	6	1500	RESIDENTIAL
RESIDENTIAL	1500	6	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	7	1500	RESIDENTIAL
RESIDENTIAL	1500	7	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	8	1500	RESIDENTIAL
RESIDENTIAL	1500	8	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	9	1500	RESIDENTIAL
RESIDENTIAL	1500	9	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	10	1500	RESIDENTIAL
RESIDENTIAL	1500	10	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	11	1500	RESIDENTIAL
RESIDENTIAL	1500	11	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	12	1500	RESIDENTIAL
RESIDENTIAL	1500	12	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	13	1500	RESIDENTIAL
RESIDENTIAL	1500	13	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	14	1500	RESIDENTIAL
RESIDENTIAL	1500	14	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	15	1500	RESIDENTIAL
RESIDENTIAL	1500	15	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	16	1500	RESIDENTIAL
RESIDENTIAL	1500	16	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	17	1500	RESIDENTIAL
RESIDENTIAL	1500	17	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	18	1500	RESIDENTIAL
RESIDENTIAL	1500	18	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	19	1500	RESIDENTIAL
RESIDENTIAL	1500	19	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	20	1500	RESIDENTIAL
RESIDENTIAL	1500	20	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	21	1500	RESIDENTIAL
RESIDENTIAL	1500	21	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	22	1500	RESIDENTIAL
RESIDENTIAL	1500	22	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	23	1500	RESIDENTIAL
RESIDENTIAL	1500	23	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	24	1500	RESIDENTIAL
RESIDENTIAL	1500	24	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	25	1500	RESIDENTIAL
RESIDENTIAL	1500	25	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	26	1500	RESIDENTIAL
RESIDENTIAL	1500	26	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	27	1500	RESIDENTIAL
RESIDENTIAL	1500	27	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	28	1500	RESIDENTIAL
RESIDENTIAL	1500	28	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	29	1500	RESIDENTIAL
RESIDENTIAL	1500	29	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	30	1500	RESIDENTIAL
RESIDENTIAL	1500	30	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	31	1500	RESIDENTIAL
RESIDENTIAL	1500	31	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	32	1500	RESIDENTIAL
RESIDENTIAL	1500	32	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	33	1500	RESIDENTIAL
RESIDENTIAL	1500	33	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	34	1500	RESIDENTIAL
RESIDENTIAL	1500	34	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	35	1500	RESIDENTIAL
RESIDENTIAL	1500	35	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	36	1500	RESIDENTIAL
RESIDENTIAL	1500	36	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	37	1500	RESIDENTIAL
RESIDENTIAL	1500	37	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	38	1500	RESIDENTIAL
RESIDENTIAL	1500	38	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	39	1500	RESIDENTIAL
RESIDENTIAL	1500	39	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	40	1500	RESIDENTIAL
RESIDENTIAL	1500	40	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	41	1500	RESIDENTIAL
RESIDENTIAL	1500	41	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	42	1500	RESIDENTIAL

LOADING METHOD: PHASE A PHASE B
LOAD X 125%
PANEL CALCULATIONS:
LOAD TYPE: LOAD (VA) DEMAND FACTOR: DEMAND LOAD
RECEPTACLE: 0 PER NEC ARTICLE 220.14 0 VA
LIGHTING: 0 100% 0 VA
MOTOR: 0 100% 0 VA
ELEVATORS: 0 100% 0 VA
HEAT: 14400 41% 5801 VA
MECH: 0 100% 0 VA
HOTEL RES UNIT: 30205 PER NEC ARTICLE 220.42 15073 VA
E UNIT PANELS: 0 100% 0 VA
% OF LARGEST MOTOR: 0 100% 0 VA
HOTEL SGT: 0 100% 0 VA
RESIDENTIAL SGT: 0 100% 0 VA
TOTAL CONNECTED LOAD: 53.8 KVA
TOTAL DEMAND LOAD: 24.0 KVA
LINE TO LINE VOLTAGE: 240 VOLTS
PANEL AMPS: 85.5 AMPS

ALL CIRCUIT BREAKER MARKED WITH "*" SIGN SHALL BE ARC-FAULT TYPE CIRCUIT BREAKER, TYPICAL.
SEE SHEET E-3.0 FOR ENLARGED TYPICAL UNITS.

(N)PNL 22HP
VOLTAGE: 120/240 VOLTS 1 PHASE, 3 WIRE
BUS RATING: 225 AMPS
MAIN: 150A MCB
LOCATION:

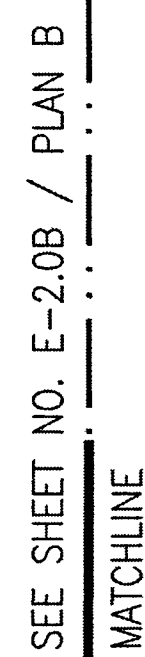
CB OPT: AIC RATING: SURFACE MOUNTED

LOAD TYPE	LOAD (VA)	CN	LOAD SERVED	CB	C-FAULT	CB	LOAD SERVED	CN	LOAD (VA)	LOAD TYPE
RESIDENTIAL	1500	1	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (1) RANGE (20)	2	1500	HEAT
RESIDENTIAL	1500	2	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	3	1500	RESIDENTIAL
HEAT	1500	3	(N) (1) RANGE (20)	201	A	201	(N) (2) KITCHEN APR. (20)	4	1500	RESIDENTIAL
HEAT	1500	4	(N) (1) RANGE (20)	201	B	201	(N) (2) KITCHEN APR. (20)	5	1500	RESIDENTIAL
RESIDENTIAL	1500	5	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	6	1500	RESIDENTIAL
RESIDENTIAL	1500	6	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	7	1500	RESIDENTIAL
RESIDENTIAL	1500	7	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	8	1500	RESIDENTIAL
RESIDENTIAL	1500	8	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	9	1500	RESIDENTIAL
RESIDENTIAL	1500	9	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	10	1500	RESIDENTIAL
RESIDENTIAL	1500	10	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	11	1500	RESIDENTIAL
RESIDENTIAL	1500	11	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	12	1500	RESIDENTIAL
RESIDENTIAL	1500	12	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	13	1500	RESIDENTIAL
RESIDENTIAL	1500	13	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	14	1500	RESIDENTIAL
RESIDENTIAL	1500	14	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	15	1500	RESIDENTIAL
RESIDENTIAL	1500	15	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	16	1500	RESIDENTIAL
RESIDENTIAL	1500	16	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	17	1500	RESIDENTIAL
RESIDENTIAL	1500	17	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	18	1500	RESIDENTIAL
RESIDENTIAL	1500	18	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	19	1500	RESIDENTIAL
RESIDENTIAL	1500	19	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	20	1500	RESIDENTIAL
RESIDENTIAL	1500	20	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	21	1500	RESIDENTIAL
RESIDENTIAL	1500	21	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	22	1500	RESIDENTIAL
RESIDENTIAL	1500	22	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	23	1500	RESIDENTIAL
RESIDENTIAL	1500	23	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	24	1500	RESIDENTIAL
RESIDENTIAL	1500	24	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	25	1500	RESIDENTIAL
RESIDENTIAL	1500	25	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	26	1500	RESIDENTIAL
RESIDENTIAL	1500	26	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	27	1500	RESIDENTIAL
RESIDENTIAL	1500	27	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	28	1500	RESIDENTIAL
RESIDENTIAL	1500	28	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	29	1500	RESIDENTIAL
RESIDENTIAL	1500	29	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	30	1500	RESIDENTIAL
RESIDENTIAL	1500	30	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	31	1500	RESIDENTIAL
RESIDENTIAL	1500	31	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	32	1500	RESIDENTIAL
RESIDENTIAL	1500	32	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	33	1500	RESIDENTIAL
RESIDENTIAL	1500	33	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	34	1500	RESIDENTIAL
RESIDENTIAL	1500	34	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	35	1500	RESIDENTIAL
RESIDENTIAL	1500	35	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	36	1500	RESIDENTIAL
RESIDENTIAL	1500	36	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	37	1500	RESIDENTIAL
RESIDENTIAL	1500	37	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	38	1500	RESIDENTIAL
RESIDENTIAL	1500	38	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	39	1500	RESIDENTIAL
RESIDENTIAL	1500	39	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	40	1500	RESIDENTIAL
RESIDENTIAL	1500	40	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	41	1500	RESIDENTIAL
RESIDENTIAL	1500	41	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	42	1500	RESIDENTIAL

LOADING METHOD: PHASE A PHASE B
LOAD X 125%
PANEL CALCULATIONS:
LOAD TYPE: LOAD (VA) DEMAND FACTOR: DEMAND LOAD
RECEPTACLE: 0 PER NEC ARTICLE 220.14 0 VA
LIGHTING: 0 100% 0 VA
MOTOR: 0 100% 0 VA
ELEVATORS: 0 100% 0 VA
HEAT: 14400 41% 5801 VA
MECH: 0 100% 0 VA
HOTEL RES UNIT: 30205 PER NEC ARTICLE 220.42 15073 VA
E UNIT PANELS: 0 100% 0 VA
% OF LARGEST MOTOR: 0 100% 0 VA
HOTEL SGT: 0 100% 0 VA
RESIDENTIAL SGT: 0 100% 0 VA
TOTAL CONNECTED LOAD: 53.8 KVA
TOTAL DEMAND LOAD: 24.0 KVA
LINE TO LINE VOLTAGE: 240 VOLTS
PANEL AMPS: 85.5 AMPS

ALL CIRCUIT BREAKER MARKED WITH "*" SIGN SHALL BE ARC-FAULT TYPE CIRCUIT BREAKER, TYPICAL.
SEE SHEET E-3.0 FOR ENLARGED TYPICAL UNITS.

(N)PNL 11HP										CB OPT		AIC RATING		OPTIONS	
VOLTAGE: 120/240 VOLTS 1 PHASE, 3 WIRE										CER					
BUS RATING: 225 AMPS										CER					
MAIN: 125A MCB										CER					
LOCATION:															
LOAD TYPE		LOAD (VA)	CN	LOAD SERVED	CB	C-FAULT	CB	LOAD SERVED	CN	LOAD (VA)	LOAD TYPE				
RESIDENTIAL	1500	1	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (1) RANGE (20)	2	1500	HEAT					
RESIDENTIAL	1500	2	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	3	1500	RESIDENTIAL					
HEAT	1500	3	(N) (1) RANGE (20)	201	A	201	(N) (2) KITCHEN APR. (20)	4	1500	RESIDENTIAL					
HEAT	1500	4	(N) (1) RANGE (20)	201	B	201	(N) (2) KITCHEN APR. (20)	5	1500	RESIDENTIAL					
RESIDENTIAL	1500	5	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	6	1500	RESIDENTIAL					
RESIDENTIAL	1500	6	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	7	1500	RESIDENTIAL					
RESIDENTIAL	1500	7	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	8	1500	RESIDENTIAL					
RESIDENTIAL	1500	8	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	9	1500	RESIDENTIAL					
RESIDENTIAL	1500	9	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	10	1500	RESIDENTIAL					
RESIDENTIAL	1500	10	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	11	1500	RESIDENTIAL					
RESIDENTIAL	1500	11	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	12	1500	RESIDENTIAL					
RESIDENTIAL	1500	12	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	13	1500	RESIDENTIAL					
RESIDENTIAL	1500	13	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	14	1500	RESIDENTIAL					
RESIDENTIAL	1500	14	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	15	1500	RESIDENTIAL					
RESIDENTIAL	1500	15	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	16	1500	RESIDENTIAL					
RESIDENTIAL	1500	16	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	17	1500	RESIDENTIAL					
RESIDENTIAL	1500	17	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	18	1500	RESIDENTIAL					
RESIDENTIAL	1500	18	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	19	1500	RESIDENTIAL					
RESIDENTIAL	1500	19	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	20	1500	RESIDENTIAL					
RESIDENTIAL	1500	20	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	21	1500	RESIDENTIAL					
RESIDENTIAL	1500	21	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	22	1500	RESIDENTIAL					
RESIDENTIAL	1500	22	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	23	1500	RESIDENTIAL					
RESIDENTIAL	1500	23	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	24	1500	RESIDENTIAL					
RESIDENTIAL	1500	24	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	25	1500	RESIDENTIAL					
RESIDENTIAL	1500	25	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	26	1500	RESIDENTIAL					
RESIDENTIAL	1500	26	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	27	1500	RESIDENTIAL					
RESIDENTIAL	1500	27	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	28	1500	RESIDENTIAL					
RESIDENTIAL	1500	28	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	29	1500	RESIDENTIAL					
RESIDENTIAL	1500	29	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	30	1500	RESIDENTIAL					
RESIDENTIAL	1500	30	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	31	1500	RESIDENTIAL					
RESIDENTIAL	1500	31	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	32	1500	RESIDENTIAL					
RESIDENTIAL	1500	32	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	33	1500	RESIDENTIAL					
RESIDENTIAL	1500	33	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	34	1500	RESIDENTIAL					
RESIDENTIAL	1500	34	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	35	1500	RESIDENTIAL					
RESIDENTIAL	1500	35	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	36	1500	RESIDENTIAL					
RESIDENTIAL	1500	36	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	37	1500	RESIDENTIAL					
RESIDENTIAL	1500	37	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	38	1500	RESIDENTIAL					
RESIDENTIAL	1500	38	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	39	1500	RESIDENTIAL					
RESIDENTIAL	1500	39	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	40	1500	RESIDENTIAL					
RESIDENTIAL	1500	40	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	41	1500	RESIDENTIAL					
RESIDENTIAL	1500	41	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	42	1500	RESIDENTIAL					
RESIDENTIAL	1500	42	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	43	1500	RESIDENTIAL					
RESIDENTIAL	1500	43	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	44	1500	RESIDENTIAL					
RESIDENTIAL	1500	44	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	45	1500	RESIDENTIAL					
RESIDENTIAL	1500	45	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	46	1500	RESIDENTIAL					
RESIDENTIAL	1500	46	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	47	1500	RESIDENTIAL					
RESIDENTIAL	1500	47	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	48	1500	RESIDENTIAL					
RESIDENTIAL	1500	48	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	49	1500	RESIDENTIAL					
RESIDENTIAL	1500	49	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	50	1500	RESIDENTIAL					
RESIDENTIAL	1500	50	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	51	1500	RESIDENTIAL					
RESIDENTIAL	1500	51	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	52	1500	RESIDENTIAL					
RESIDENTIAL	1500	52	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	53	1500	RESIDENTIAL					
RESIDENTIAL	1500	53	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	54	1500	RESIDENTIAL					
RESIDENTIAL	1500	54	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	55	1500	RESIDENTIAL					
RESIDENTIAL	1500	55	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	56	1500	RESIDENTIAL					
RESIDENTIAL	1500	56	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	57	1500	RESIDENTIAL					
RESIDENTIAL	1500	57	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	58	1500	RESIDENTIAL					
RESIDENTIAL	1500	58	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	59	1500	RESIDENTIAL					
RESIDENTIAL	1500	59	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	60	1500	RESIDENTIAL					
RESIDENTIAL	1500	60	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	61	1500	RESIDENTIAL					
RESIDENTIAL	1500	61	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	62	1500	RESIDENTIAL					
RESIDENTIAL	1500	62	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	63	1500	RESIDENTIAL					
RESIDENTIAL	1500	63	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	64	1500	RESIDENTIAL					
RESIDENTIAL	1500	64	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	65	1500	RESIDENTIAL					
RESIDENTIAL	1500	65	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	66	1500	RESIDENTIAL					
RESIDENTIAL	1500	66	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	67	1500	RESIDENTIAL					
RESIDENTIAL	1500	67	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	68	1500	RESIDENTIAL					
RESIDENTIAL	1500	68	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	69	1500	RESIDENTIAL					
RESIDENTIAL	1500	69	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	70	1500	RESIDENTIAL					
RESIDENTIAL	1500	70	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	71	1500	RESIDENTIAL					
RESIDENTIAL	1500	71	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	72	1500	RESIDENTIAL					
RESIDENTIAL	1500	72	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	73	1500	RESIDENTIAL					
RESIDENTIAL	1500	73	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	74	1500	RESIDENTIAL					
RESIDENTIAL	1500	74	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	75	1500	RESIDENTIAL					
RESIDENTIAL	1500	75	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	76	1500	RESIDENTIAL					
RESIDENTIAL	1500	76	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	77	1500	RESIDENTIAL					
RESIDENTIAL	1500	77	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	78	1500	RESIDENTIAL					
RESIDENTIAL	1500	78	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	79	1500	RESIDENTIAL					
RESIDENTIAL	1500	79	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	80	1500	RESIDENTIAL					
RESIDENTIAL	1500	80	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	81	1500	RESIDENTIAL					
RESIDENTIAL	1500	81	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	82	1500	RESIDENTIAL					
RESIDENTIAL	1500	82	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	83	1500	RESIDENTIAL					
RESIDENTIAL	1500	83	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	84	1500	RESIDENTIAL					
RESIDENTIAL	1500	84	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	85	1500	RESIDENTIAL					
RESIDENTIAL	1500	85	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	86	1500	RESIDENTIAL					
RESIDENTIAL	1500	86	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	87	1500	RESIDENTIAL					
RESIDENTIAL	1500	87	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	88	1500	RESIDENTIAL					
RESIDENTIAL	1500	88	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	89	1500	RESIDENTIAL					
RESIDENTIAL	1500	89	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	90	1500	RESIDENTIAL					
RESIDENTIAL	1500	90	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	91	1500	RESIDENTIAL					
RESIDENTIAL	1500	91	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	92	1500	RESIDENTIAL					
RESIDENTIAL	1500	92	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	93	1500	RESIDENTIAL					
RESIDENTIAL	1500	93	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	94	1500	RESIDENTIAL					
RESIDENTIAL	1500	94	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	95	1500	RESIDENTIAL					
RESIDENTIAL	1500	95	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	96	1500	RESIDENTIAL					
RESIDENTIAL	1500	96	(N) (2) KITCHEN APR. (20)	201	B	201	(N) (2) KITCHEN APR. (20)	97	1500	RESIDENTIAL					
RESIDENTIAL	1500	97	(N) (2) KITCHEN APR. (20)	201	A	201	(N) (2) KITCHEN APR. (20)	98	1500	RESIDENTIAL					
RESIDENTIAL	1500	98	(N) (2) KITCHEN APR. (2												



(GENERAL NOTES ARE USED FOR SHEET E-2.0A AND E-2.0B.)

1. ALL DRY LOCATION CONDUIT IS METAL. ALL CONDUCTORS ARE COPPER TYPE "THHN"/"THWN" U.O.N.
2. ALL TERMINATION SHALL BE RATED FOR 75 DEGREES CELSIUS CONNECTIONS FOR COPPER CONDUCTORS.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF SWITCHGEAR TO UTILITY CO. FOR APPROVAL PRIOR TO INSTALLING EQUIPMENT.
4. SWITCHBOARD AND INDIVIDUAL PANEL RATING SHALL BE ADJUSTED ACCORDING TO THE UTILITY AIC RATING.
5. ALL METALLIC CONDUIT SHALL BE GROUND.
6. ALL ELECTRICAL PANELS, DISTRIBUTION BOARD, EQUIPMENT, SWITCHES AND ETC., THAT ARE INSTALLED ON EXTERIOR LOCATIONS SHALL BE RATED FOR WET LOCATION AND WEATHERPROOF.
7. PROVIDE WEATHERPROOF SEAL TO ALL EXTERIOR PENETRATION.
8. PROVIDE PERMANENT LABEL ON EACH OF THE SWITCHBOARD, DISTRIBUTION BOARD AND PANELS ON THE RATING OF EACH UNIT AS INDICATED IN THE PLAN.

(SPECIFIC NOTES ARE USED FOR SHEET E-2.0A AND E-2.0B)

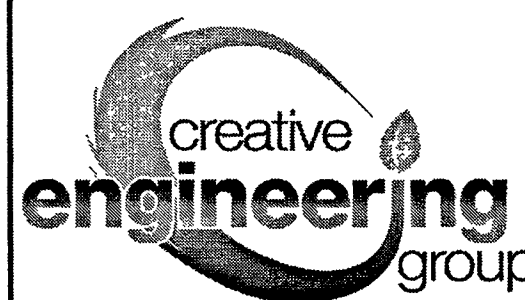
- 1 SEE ENLARGE TYPICAL UNIT POWER PLAN ON SHEETS E-40 FOR THE NEW ELECTRICAL POWER ADDITIONAL OUTLETS. USE THE CIRCUITS INDICATED ON THIS PLAN FOR EACH OF THE INDIVIDUAL ROOMS / UNITS / TYPICAL.
- 2 EXISTING ELECTRICAL SYSTEM ON THIS ROOMS / UNITS SHALL REMAIN CONNECTED OR RE-CONNECTED AS REQUIRED, TYPICAL.
- 3 ALL EXISTING ELECTRICAL SYSTEM ON THE COMMON EXTERIOR AREAS SHALL REMAIN CONNECTED OR RE-CONNECTED AS REQUIRED, TYPICAL.
- 4 EXISTING PANELS AND SWITCHBOARD SHALL REMAIN CONNECTED OR RE-CONNECTED AS REQUIRED, TYPICAL.
- 5 PROPOSED LOCATION OF THE NEW ADDED PANEL AND DISTRIBUTION BOARDS. THE NEW MODEL LOGIC TO THE ROOMS / UNITS. PROVIDE THE REQUIRED 3" WORKING CLEARANCE IN FRONT OF THE PANEL AND DISTRIBUTION BOARD, TYPICAL.
- 6 ALL THE CIRCUIT BREAKERS THAT FEED THIS WASHER AND DRYER RECEPTACLES OUTLETS SHALL BE 15 AMP, TYPICAL.
- 7 NEW CONDUIT STUBBED IN SPACE C-40 FOR FUTURE CAR CHARGER. SEE SINGLE LINE FOR DETAIL.
- 8 PROVIDE 20A, 2P RECEPTACLE OUTLET FOR THE PTAC UNIT.
- 9 CONNECT CONNECT TO THE POWER SUPPLY AND CONTROL SYSTEM FOR THE GATE MOTOR, PROVIDE REQUIRED STRUCTURAL SUPPORT. SEE ARCHITECTURAL PLAN FOR EXACT LOCATION AND COMPLETE CONNECTION.

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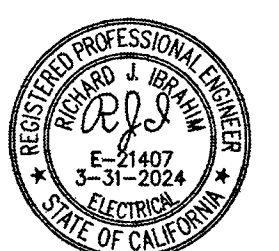
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PARTIAL 1ST
FLOOR POWER
PLAN A

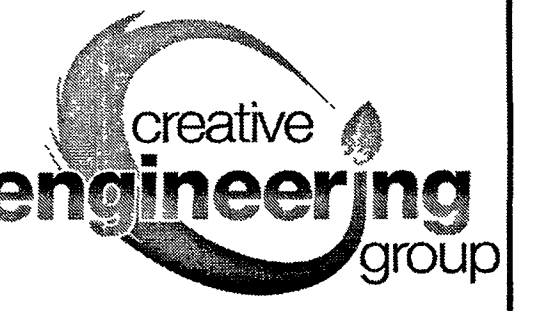
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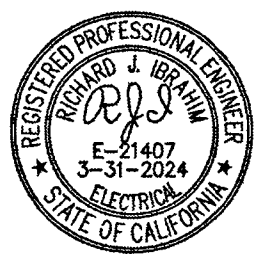
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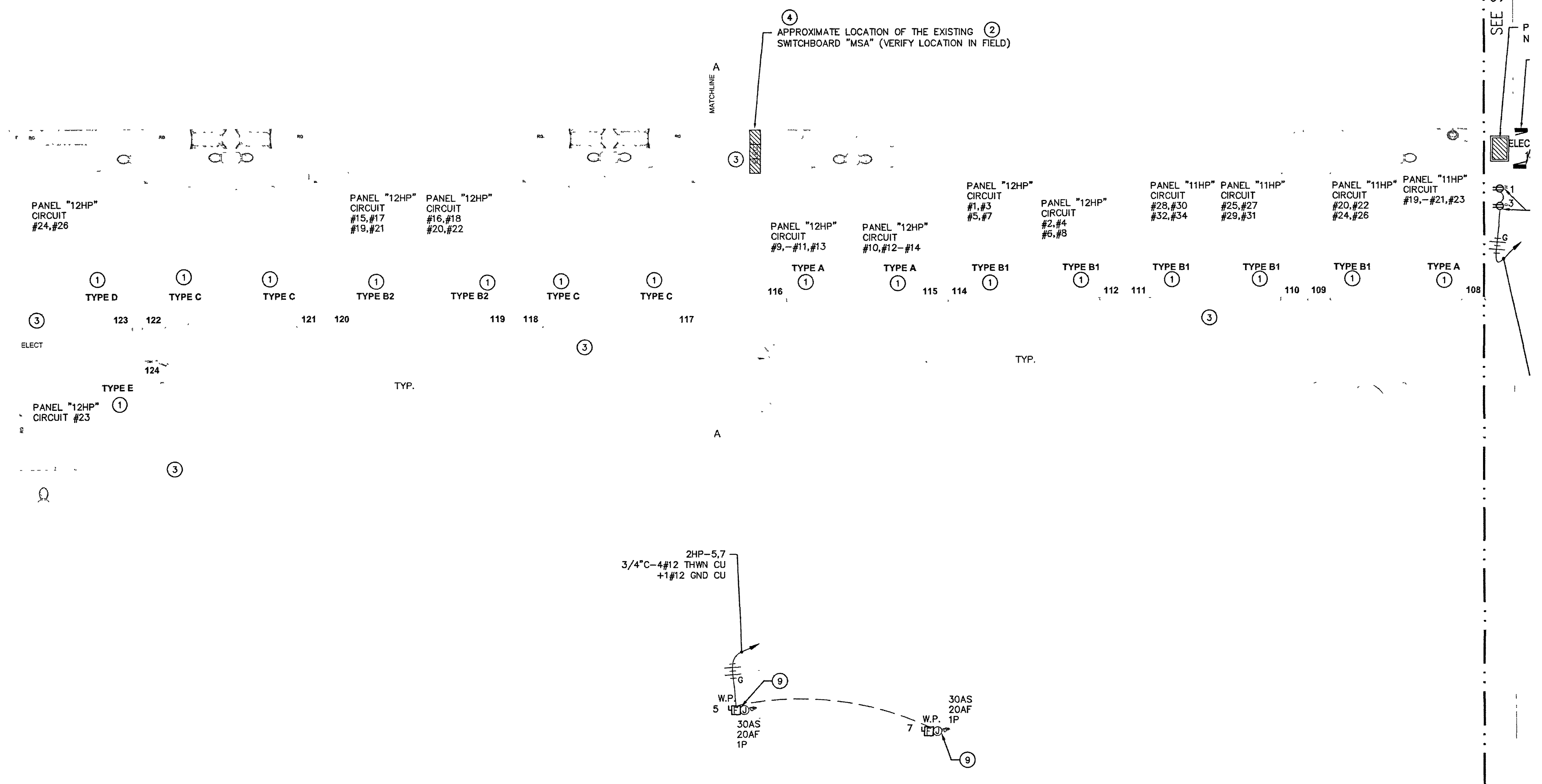
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**PARTIAL 1ST
FLOOR POWER
PLAN B**

SHEET NO
E-2.0B

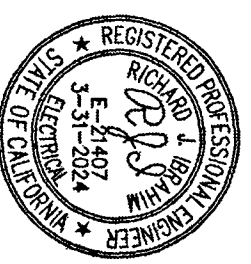
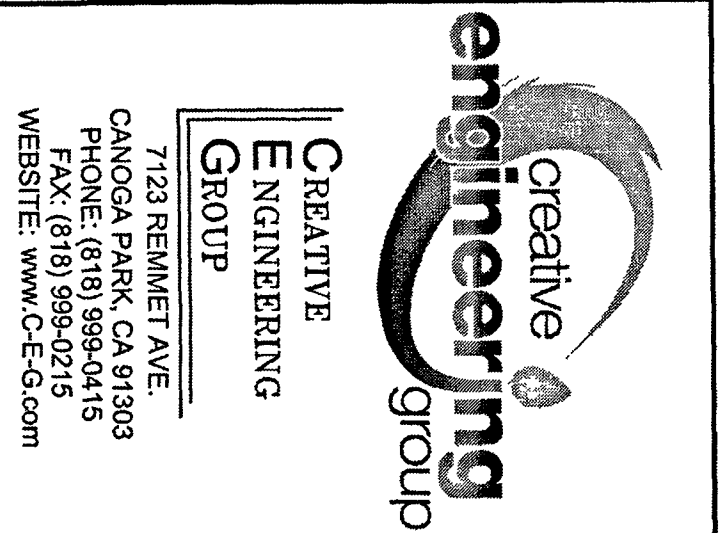


PARTIAL 2ND
FLOOR POWER
PLAN A

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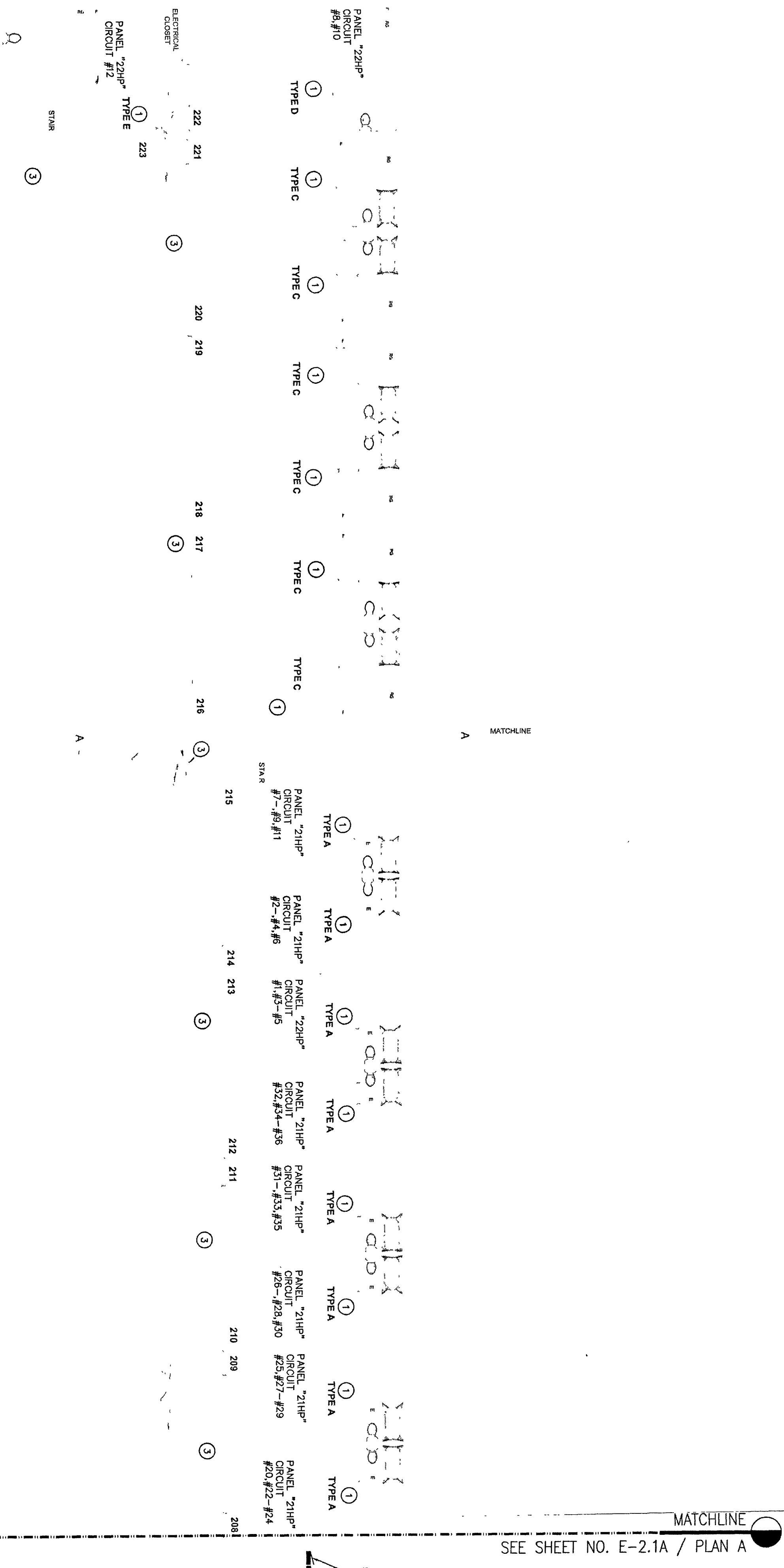


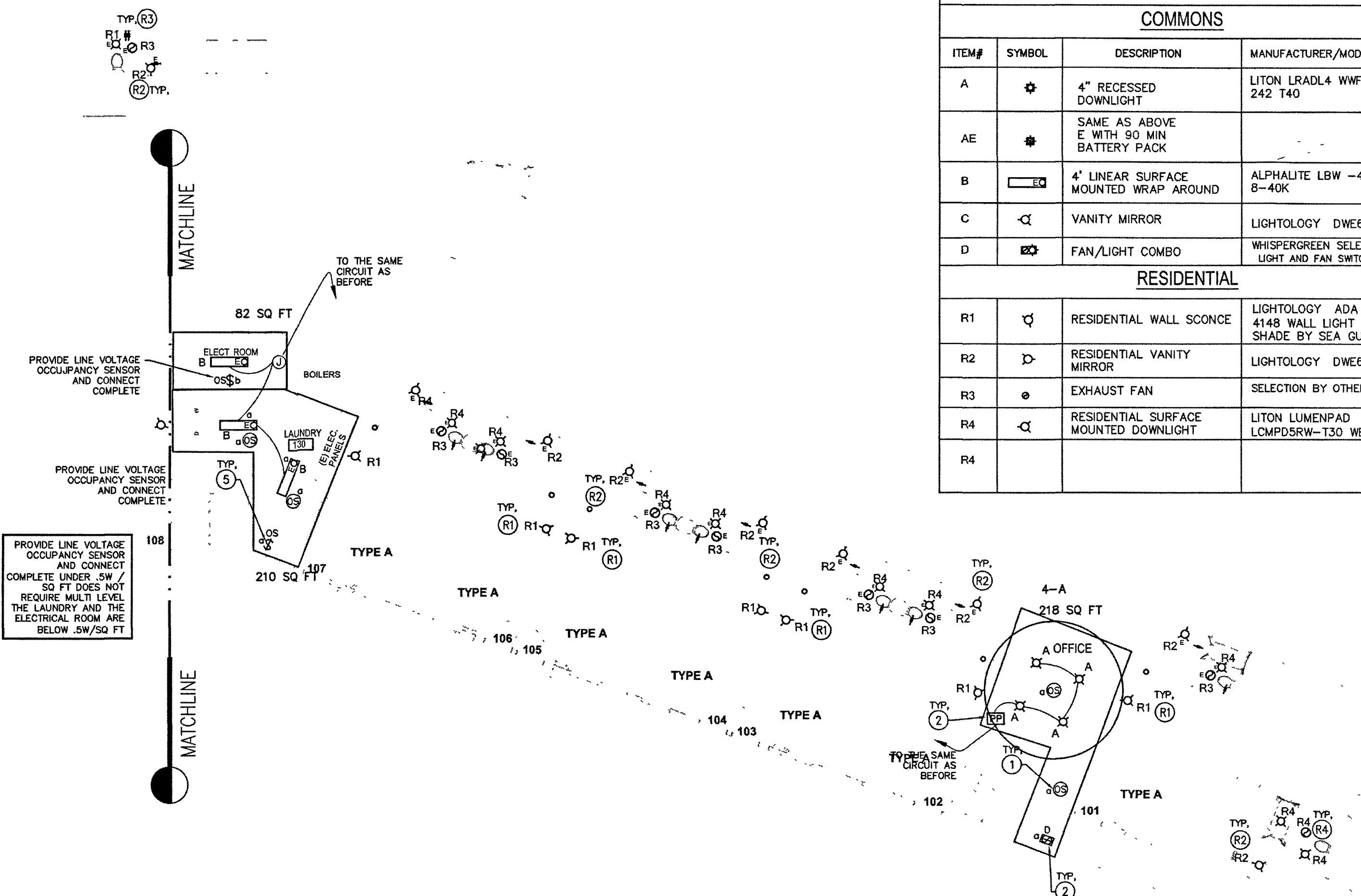
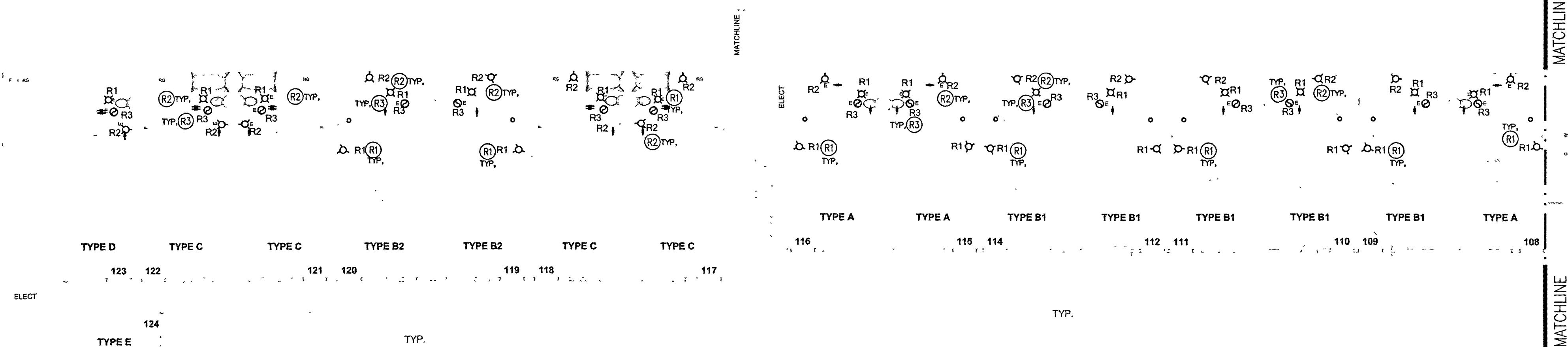
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PARTIAL 2ND FLOOR POWER PLAN B

SHEET NO.

E-2.1B





DIMMING INTENT NOTES

ALL THE NEW LIGHTS SHALL BE CONNECTED AND CONTROLLED AUTOMATICALLY VIA A LOCAL DIMMING RELAY BY LUTRON VIA A HYBRID OF THE VIVE AND ATHENA SYSTEMS. LOCAL AREA CONTROLS SHALL USE WITH EITHER A VIVE (WIRELESS) PICO SWITCHES OR A ATHENA (WIRED) PROGRAMMABLE SWITCH. THE MANUFACTURE WILL MAKE DETERMINATION OF WHEN IT WILL BE VIVE OR A ATHENA TYPE SYSTEM BASED ON THE APPLICATION AND PLANS PROVIDED. THE DETERMINATION WILL BE BASED ON DISTANCES TO CONTROL DEVICES AND COSTS OF THE SYSTEM. THE CONTRACTOR SHALL PROVIDE A COMPLETE LIGHTING CONTROL DIMMING SYSTEM COMPLETE WITH ALL ACCESSORIES, WARRANTIES, ENGRAVING AND APPS AS OUTLINED IN THE PLAN AND RECOMMENDED BY WESTERN OR LUTRON TO MAKE THE COMPLETE PACKAGE. OBTAIN FULL BILL OF MATERIALS FROM WESTERN OR LUTRON PRIOR TO BID AND INSTALLATION. THE SYSTEM SHALL MEET THE CRITERIA BELOW AND THE E.C./VENDOR/MANUFACTURER REP ARE RESPONSIBLE TO PROVIDE AND INSTALL THE SYSTEM COMPLETE WITH PROGRAMMING. ALL QUESTIONS SHALL BE BROUGHT UP PRIOR TO BID FOR A COMPLETE SYSTEM COST. THE ELECTRICAL ENGINEER WILL REQUIRE SUBMITTALS. HOWEVER THOSE SUBMITTAL WILL ONLY BE CHECKED AS TO ITS GENERAL INTENT AND QUALITY OF THE SYSTEM PROVIDED. DEVICES PART NUMBERS OR QUANTITIES WILL NOT BE CHECKED BY THE ELECTRICAL ENGINEER. THE SYSTEMS BILL OF MATERIALS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND VENDOR.

1. PROVIDE LOW VOLTAGE DIMMING RELAY MODULES AND LOCAL WIRELESS DIMMING CONTROL SWITCHES (PICO SWITCHES) AND ANY OTHER CONTROL WIRELESS DEVICES AS SHOWN ON THE PLAN OR RECOMMENDED BY THE MANUFACTURE TO COMPLETE THE SYSTEM INTENT FOR EACH ZONE.
2. EACH PP SYMBOL IS APPROXIMATE LOCATION OF THE VIVE POWER PACK RELAYS. THE SUBSCRIPT LETTER (abc...) REPRESENT A SEPARATE ZONE AND RELAY MODULE REQUIRED FOR EACH OF THE ZONES. THE MODULES SHALL BE LOCATED IN A ACCESSIBLE CEILING OUT OF PEOPLES VIEW. OPTIMAL PLACEMENT IS ABOVE THE LOCAL CONTROL SWITCH BUT ONLY CAUSE THEY ARE EASY TO FIND LATER, HOWEVER WHEN IS STILL WITHIN SITE OF PEOPLE THEN IT MAY BE PUT IN AN ADJACENT AREA IN AN ACCESSIBLE CEILING. AND IF PLACED WITH IN A HARD LID CEILING THE E.C. SHALL PROVIDE ACCESS PANEL, SIZED APPROPRIATELY TO REACH THE RELAYS. COORDINATE BEST PLACEMENT IN FIELD WITH OWNER/ARCH. E.C. SHALL MARK THE PLANS FOR THE CLIENT OF ACTUAL INSTALLED LOCATION OF EACH DIMMING RELAY MODULE AND PICO DEVICES, DAYLIGHTING SENSORS AND OCCUPANCY SENSOR ON A B311 PLAN FOR THE OWNERSHIPS RECORDS. SEE SUGGESTED LOCATION ON PLANS. NO EXTRA ALLOWED FOR ACCESS PANEL IF LOCATION IN A HARD CEILING IS DECIDED UPON.
3. ALL WIRING DIAGRAM/DETAILS AND BILL OF MATERIALS SHALL BE OBTAINED BY THE E.C. FROM THE WESTERN LIGHTING CONTROLS. CONTACT KERRY HARRISON OF LUTRON PRIOR TO FINAL BID FOR THIS SYSTEM.
4. PROVIDE OCCUPANCY SENSORS INTERCONNECTED WITH SYSTEM AS SHOWN ON THE PLANS. THE CONTRACTOR MAY OPTION TO INSTALL THEM IN THE BEST FIELD LOCATED LOCATIONS. IT IS SUGGESTED TO CONSULT WITH THE LUTRON REPRESENTATIVE TO SEE THE OPTIONS AVAILABLE AND TO INSTALL IN A LOCATION THAT IS NOT PRONE TO FALSE TRIGGERS AND AS REQUIRED BY THE ENERGY CODE. COORDINATE LAYOUTS WITH THE VENDOR. MANUFACTURES REP.
5. PICO SWITCHES, OCCUPANCY SENSORS AND DAYLIGHTING PHOTOCELLS ARE ALL WIRELESS DEVICES AND PAIRED TO THE DIMMING RELAY. NO WIRING IS REQUIRED TO THESE DEVICES. THE BATTERY IS PROVEN TO LAST 10 YEARS IN EACH DEVICE. A ESTIMATE BATTERY REPLACEMENT DATE SHALL BE PLACED ON THE OWNER B311 CONTROLS REFERENCE SHEET. THAT SHEET SHALL ALSO BE PROVIDED VIA PDF IN CONJUNCTION WITH ANY OF THE DOCUMENTATION LUTRON PROVIDES.
6. A FULL LIGHTING FIXTURE SUBMITTAL OF THE FINAL FIXTURE TO BE PURCHASED SHALL BE PROVIDED TO THE CONTROLS VENDOR / MANUFACTURE TO MATCH THE DIMMING PROTOCOL USED BY EACH FIXTURE AND MATCHED WITH THE SYSTEM. IF A SUBSTITUTION IS MADE AFTER SYSTEMS BILL OF MATERIAL IS PROVIDED OR INSTALLED, IT SHALL BE QUICKLY APPROVED BY LUTRON THAT DEVICES PROVIDE ARE STILL COMPATIBLE OR NEW RELAYS ARE REQUIRED. THE LIGHT FIXTURES AND MATCHING DIMMING RELAY SHALL BE PROVIDED FOR OPTIMAL DIMMING DOWN TO 5% UNLESS A 1% IS REQUESTED BY OTHERS ON THE TEAM.

FIRST FLOOR LIGHTING PLAN

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

SPECIFIC COMMON AREA NOTES:

1. PROVIDE LUTRON VIVE OCCUPANCY SENSOR AND PROGRAM TO LIGHTING DIMMING MODULES AS DIRECTED BY LUTRON. PROVIDE PARTIAL ON/OFF CONTROL PROGRAMMING.
2. PROVIDE LOW VOLTAGE LOCAL ROOM CONTROL CONNECTED TO THE POWER PACK/DIMMING MODULE COMPLETE PER MANUFACTURE WIRING DIAGRAMS PROVIDE 2, 4 OR 6 BUTTON CONTROLS AS REQUIRED PER ZONES CONTROLLED. CONNECT COMPLETE WITH SYSTEM PER MANUFACTURERS WIRING DIAGRAMS.
3. PROVIDE POWER PACK/DIMMING MODULE OR ROOM CONTROLLER. SEE DIMMING INTENT NOTE FOR MORE INFORMATION ON SYSTEM TO BE USED. POWER PACK MODULE SHALL MATCH THE LOAD IT CONTROLS FOR PROPER PERFORMANCE.
4. EMERGENCY LIGHTING SHALL BE PROVIDED WITH A 90 MINUTE BATTERY PACK.
5. PROVIDE AND INSTALL A LINE VOLTAGE OCCUPANCY SENSOR IN THE PUBLIC RESTROOM. THE LIGHTS AND THE EXHAUST FAN SHALL BE CONTROLLED SEPARATELY. CONNECT THE LIGHT AND EXHAUST FAN COMPLETE. COORDINATE THE SPECS FOR THE EF FOR COMPLETE WORK.

SPECIFIC RESIDENTIAL AREA NOTES:

1. WHEN A R1 IS SHOWN THE CONTRACTOR SHALL PROVIDE AND CONNECT THE NEW FIXTURE WITH CONTROL COMPLETE. FOR CONTROLS IN THE ROOMS PROVIDE A VACANCY/OCCUPANCY SWITCH ON THE WALL AND USE THE SAME CIRCUIT DESIGNATED FOR LIGHTING PER FIELD CONDITIONS.
2. WHEN A R2 IS SHOWN THE CONTRACTOR SHALL PROVIDE AND CONNECT THE NEW VANITY MIRROR FIXTURE WITH CONTROL COMPLETE. REPLACE FIXTURE WHEN A FIXTURE IS PRESENT AND VACANCY/OCCUPANCY SENSOR SWITCH SHALL BE P FOR CONTROLS IN THE ROOMS PROVIDE A VACANCY/OCCUPANCY SWITCH ON THE WALL AND USE THE SAME CIRCUIT DESIGNATED FOR LIGHTING PER FIELD CONDITIONS.
3. WHEN A R3 IS SHOWN THE CONTRACTOR SHALL PROVIDE AND CONNECT THE NEW DOWNLIGHT AND EXHAUST FAN THE RESTROOM. THE EXHAUST FAN AND THE LIGHT SHALL BE CONTROLLED SEPARATELY PER THE CODE BY AVACANCY/OCCUPANCY SENSOR SWITCH AND FAN SHALL BE VERIFIED IF A SENSOR SWITCH SHALL E USED OR A HUMIDITY SENSOR SHALL BE USED PER THE LOCAL AUTHORITIES REQUIREMENTS.
4. WHEN A R4 IS SHOWN THE CONTRACTOR SHALL PROVIDE AND CONNECT THE NEW DOWNLIGHT A VACANCY/OCCUPANCY SENSOR SWITCH.

EXITS AND EMERGENCY NOTES

1. ALL EXIT SIGNS SHALL COMPLY WITH THE UBC CHAPTER 10. EXIT SIGNS SHALL BE CONNECTED TO TWO CIRCUITS: ONE NORMAL POWER CIRCUIT AND ONE EMERGENCY 90 MINUTE BATTERY PACK.
2. ALL EMERGENCY LIGHTS DESIGNATED AS EMERGENCY, SHALL BE CONNECTED TO A 90 MINUTE BATTERY PACK AND BE CONNECTED TO NORMAL POWER. SEE MANUFACTURE WIRING DETAILS FOR COMPLETE WORK.
3. TESTS FOR EXIT ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS POWER BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONAL REQUIRED EMERGENCY SYSTEM SHALL BE CONDUCTED IN THE PRESENCE OF THE BUILDING INSPECTION STAFF TO ENSURE COMPLIANCE. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COSTS ASSOCIATED WITH EITHER PRE-OR AFTER-HOURS TESTING SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH SYSTEM SHALL OCCUR PRIOR TO THE ISSUANCE OF A TEMPORARY OF APPROVAL OF FINAL APPROVAL OF THE PROJECT.
4. RUN SEPARATE HOT WIRE TO EMERGENCY LIGHT FIXTURES FROM THE LOCAL LIGHTING CIRCUIT USED.

LIGHTING NOTES

PLEASE NOTE:
THE CONTRACTOR SHALL SEE THE ARCH PLANS FOR SUPPLIED FIXTURES AND BY WHICH CONTRACTOR SHALL INSTALL EACH TYPE OF LIGHTS.
ALL RESIDENTIAL LIGHTS MUST BE QUALIFIED AS A HIGH EFFICACY OR BE SPECIFICALLY A JAB PRODUCE
ALL RECESSED FIXTURES SHALL BE AT/AC RATED. THE SURFACE MOUNTED DOWNLIGHT IN THE SPECS ABOVE WILL NOT TRIGGER THE AT/AC RATING
RESTROOM CEILING LIGHTS SHALL BE CONTROLLED SEPARATELY FROM THE EXHAUST FAN VIA A VACANCY/OCCUPANCY SENSOR FOR THE LIGHTS AND VACANCY/OCCUPANCY SWITCH FOR THE FAN OR A HUMIDISTAT OR SIMILAR COORDINATE IN FIELD OR WITH THE PROVIDER/SPECIFIER AN LOCAL AUTHORITIES OF THE EXHAUST FAN

GENERAL NOTES

DIMENSIONS AND LOCATION OF LIGHTING FIXTURES AND SWITCH LOCATION SHALL BE COORDINATED WITH THE ARCH PLAN PRIOR TO BID AND INSTALLATION FOR COMPLETE INSTALL.
DIMMING RELAY MODULES AND/OR ROOM CONTROLLER SHALL BE LOCATED NOT TO BE SEEN BY THE GENERAL PUBLIC. WHEN HARD LIDS ARE IN THE ROOMS THERE IS OPTION TO JUST HAVE IT ABOVE THE HARD LIDS OR AN ADJACENT AREA OR PROVIDE ACCESS PANELS AS REQUIRED.
AT THE END OF THE INSTALLATION THE CONTRACTOR SHALL BE RESPONSIBLE TO CREATE A MAP OF ALL THE DIMMING RELAY MODULES, RELAY AND FINAL LOCATIONS. TO BE GIVEN TO THE OWNER FOR MAINTENANCE LOCATIONS.
ALL OTHER AREAS WITH NO WORK SHOWN ON THE PLANS SHALL REMAIN AS IS. INCLUDING THE EGRESS EXIT PATH, EMERGENCY LIGHTING AND EXIT SIGNS. NEW EMERGENCY LIGHTING SHOWN WITH IN THE TWO OFFICES AS A BEST PRACTICE IN THIS APPLICATION.

FRONT SIGNAGE

NO NEW SIGN WORK TO BE DONE

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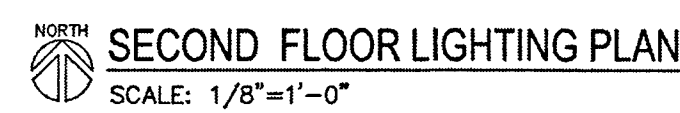
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1ST FLOOR LIGHTING PLAN

SHEET NO:

E-3.0



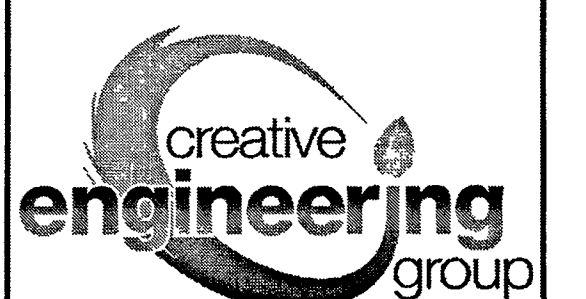
- (R1) WHEN A R1 IS SHOWN THE CONTRACTOR SHALL PROVIDE AND CONNECT THE NEW FIXTURE WITH CONTROL COMPLETE. FOR CONTROLS IN THE ROOMS PROVIDE A VACANCY/OCCUPANCY SWITCH ON THE WALL AND USE THE SAME CIRCUIT DESIGNATED FOR LIGHTING PER FIELD CONDITIONS

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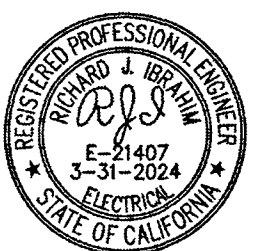
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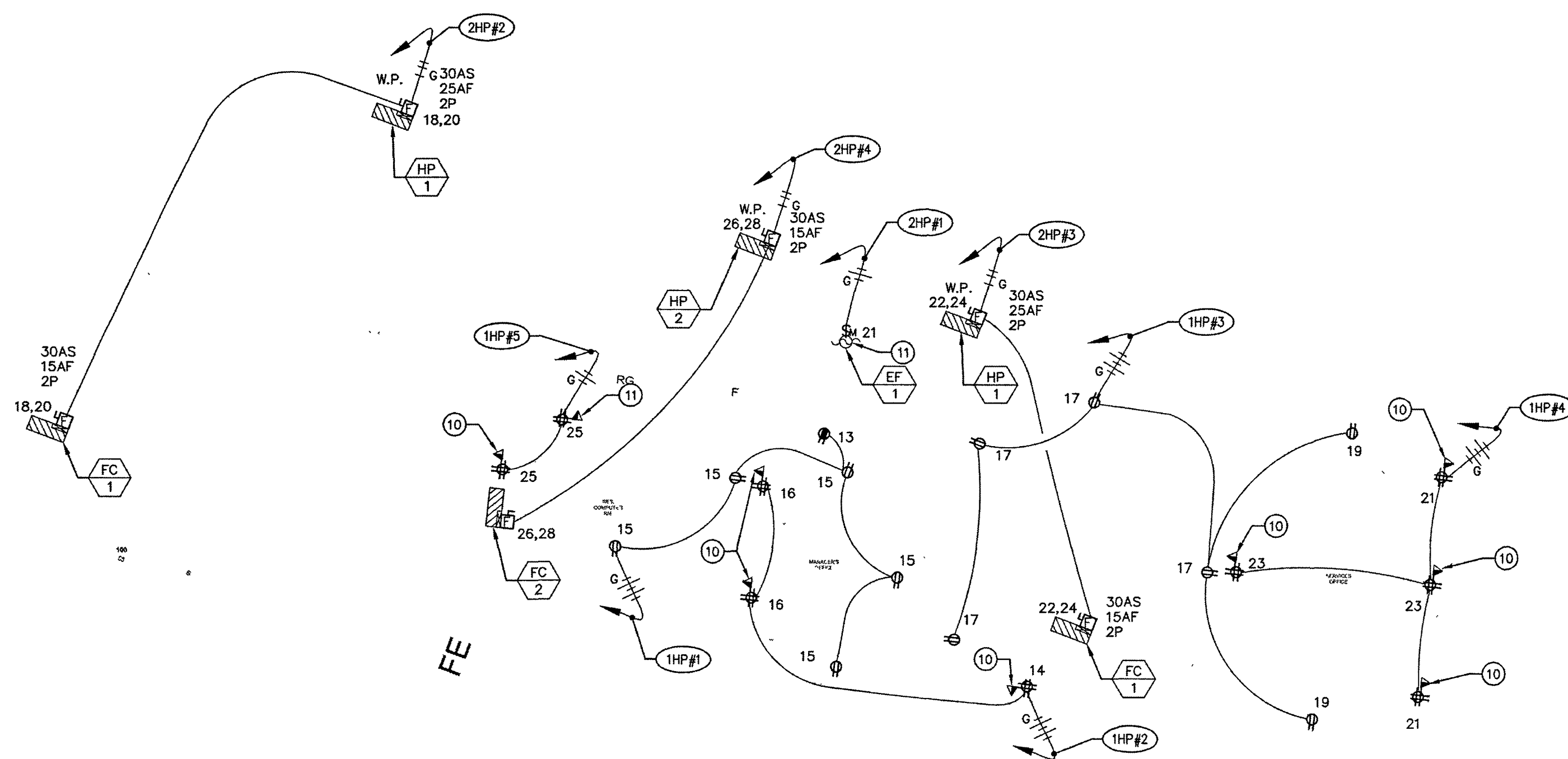
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2ND FLOOR LIGHTING PLAN

SHEET NO.

E-3.1



PANEL 1HP:

- (1HP#1) 1HP-13,15
3/4" C-4#12 THWN CU
+1#12 GND CU
- (1HP#2) 1HP-14,16
3/4" C-4#12 THWN CU
+1#12 GND CU
- (1HP#3) 1HP-17,19
3/4" C-4#12 THWN CU
+1#12 GND CU
- (1HP#4) 1HP-21,23
3/4" C-4#12 THWN CU
+1#12 GND CU
- (1HP#5) 1HP-25
3/4" C-2#12 THWN CU
+1#12 GND CU

PANEL 2HP:

- (2HP#1) 2HP-21
3/4" C-2#10 THWN CU
+1#10 GND CU
- (2HP#2) 2HP-18,20
3/4" C-2#10 THWN CU
+1#12 GND CU
- (2HP#3) 2HP-22,24
3/4" C-2#10 THWN CU
+1#12 GND CU
- (2HP#4) 2HP-26,28
3/4" C-2#12 THWN CU
+1#12 GND CU

SPECIFIC NOTES

1. NEW KITCHENETTE LOADS THAT SHALL BE CONNECTED:
(1) 1200W (2) BURNER (HARDWIRED)
(2) GFI RECEPTACLE ABOVE COUNTER
(1) RECEPTACLE BELOW COUNTER (FOR REFRIGERATOR)
(1) EXHAUST FAN WITH CONTROLS
(1) RECEPTACLE OUTLET NEXT TO THE DINING AREA
2. ALL LOCATIONS FOR THE KITCHENETTE SHALL BE AS PER THE ARCHITECT DETAILS. COORDINATE PRIOR TO ANY INSTALLATION FOR A COMPLETE WORK.
3. CONNECT COMPLETE EXHAUST FAN POWER SUPPLY AND CONTROL SYSTEM. SEE MECHANICAL PLANS. VERIFY EXACT LOCATION OF CONTROLS AND CONNECT COMPLETE, TYPICAL.
4. CONNECT COMPLETE TO THE POWER SUPPLY AND CONTROL SYSTEM OF THE UNIT ELECTRIC RANGE.
5. ALL EXISTING INDIVIDUAL ROOM OUTLETS AND LIGHTING CIRCUIT SHALL REMAIN CONNECTED OR RECONNECTED AS REQUIRED, TYPICAL.
6. PROVIDE RECEPTACLE OUTLET AS PER THE HVAC MANUFACTURE RECOMMENDATION AND SPECIFICATION. RECEPTACLE OUTLET FOR THE HVAC UNIT SHALL HAVE RATING FOR MINIMUM 20 AMP, TYPICAL.
7. CONNECT COMPLETE TO GARBAGE DISPOSAL EQUIPMENT POWER SUPPLY AND CONTROL SYSTEM SWITCH THAT IS LOCATED ABOVE COUNTER. SEE ARCHITECTURAL PLAN FOR EXACT MOUNTING LOCATION, (TYPICAL)
8. RECEPTACLE OUTLETS THAT ARE LOCATED AT THE BACK OF LARGE EQUIPMENT IN THE UNIT, SUCH AS DISHWASHER, REF WASHER, DRYER SHALL BE PROTECTED BY A COMBINATION GFI AND AFC CIRCUIT BREAKER. (TYPICAL)
9. RECEPTACLE OUTLET FOR UNIT ELECTRIC RANGE, THIS SHALL BE RATED FOR A MINIMUM OF 50 AMPERE, 2 POLE. TYPICAL TO ALL UNIT ELECTRIC RANGE.
10. PROVIDE A 3/4" CONDUIT WITH PULL WIRE THAT CONNECT ALL THE DATA, TELEPHONE AND CABLE TV OUTLETS TO THE MAIN LOW VOLTAGE TELEPHONE BACKBOARD AT EACH LEVEL.
11. CONNECT COMPLETE EXHAUST FAN AND EXHAUST HOOD POWER SUPPLY AND CONTROL SYSTEM, SEE MECHANICAL PLAN FOR EXACT LOCATION AND COMPLETE CONNECTION, TYPICAL.
12. DEMO THIS EXISTING RECEPTACLE OUTLET AND PROVIDE RECEPTACLE OUTLET ON A DIFFERENT LOCATION AS SHOWN TO COMPLY ON THE MINIMUM REQUIRED RECEPTACLE OUTLET ON THE WALL. USE #12 AWG WIRE AND CONNECT TO THE EXISTING RECEPTACLE CIRCUIT IN THE UNIT.
13. PROVIDE NEW RECEPTACLE OUTLET ON THE LOCATION AS SHOWN TO COMPLY ON THE MINIMUM REQUIRED RECEPTACLE OUTLET ON THE WALL AND CIRCUIT AS SHOWN IN SHEET E2.0A, E2.0B, E2.1A & E2.1B AND IN THE PANEL SCHEDULES.
14. PROVIDE NEW RECEPTACLE OUTLET ON THE LOCATION AS SHOWN TO REPLACE THE EXISTING THAT WAS DEMO CIRCUIT AS SHOWN IN SHEET E2.0A, E2.0B, E2.1A & E2.1B AND IN THE PANEL SCHEDULES.

SCOPE OF WORK

1. PROVIDE NEW CONNECTION FOR THE NEW KITCHEN BURNER WITH ABOVE COUNTER GFI RECEPTACLE OUTLETS, RECEPTACLE OUTLET ON THE DINING AREA AND THE MINI REFRIGERATOR THAT IS BELOW COUNTER IN EACH UNIT.
2. PROVIDE POWER AND CONTROL CONNECTION TO THE NEW EXHAUST FAN AT KITCHENETTE.
3. PROVIDE NEW PANEL WITH 600A BUS AND 450A MAIN CIRCUIT BREAKER, 120/240V, 1 PHASE, 3W SYSTEM FOR THE NEW ADDED LOAD. SEE SINGLE LINE DIAGRAM FOR CONNECTION OF ADDITIONAL NEW PANELS FOR THE NEW ADDED LOADS.
4. EXISTING PANEL SHALL REMAIN CONNECTED AND RECONNECTED AS REQUIRED.
5. ADD NEW PANELS FOR THE ADDED LOADS ON ALL THE UNITS, TYPICAL.
6. ALL EXISTING LIGHTING AND RECEPTACLES IN CORRIDORS AND UNITS SHALL REMAIN.
7. PROVIDE COMBINED AUDIO/VISIBLE DOORBELL IN ADA UNITS. SEE ARCH PLAN FOR CITY AND UNIT NUMBERS. PROVIDE DISCONNECT SWITCH AND ALL WIRING AS DIRECTED BY ARCH/OWNER FOR COMPLETE SYSTEM.
8. PROVIDE NEW RECEPTACLE OUTLET FOR THE NEW HVAC UNIT AND RECEPTACLE OUTLETS ON THE NEW ADDED OFFICE, MEETING ROOM, CONFERENCE ROOM AND RESTROOM AS SHOWN ON THE PLAN, TYPICAL.

GENERAL NOTES

1. ALL DRY LOCATION CONDUIT IS METAL. ALL CONDUCTORS ARE COPPER TYPE "THHN/THWN" U.O.N.
2. ALL TERMINATION SHALL BE RATED FOR 75 DEGREES CELSIUS CONNECTIONS FOR COPPER CONDUCTORS.
3. NEW SWITCHBOARD RATING SHALL BE AS PER UTILITY AIC RATING, NEW PANEL AIC SHALL BE ADJUST ACCORDINGLY.
4. ALL METALLIC CONDUIT SHALL BE GROUNDED.
5. ALL ELECTRICAL PANELS, DISTRIBUTION BOARD, EQUIPMENT, SWITCHES AND ETC., THAT ARE INSTALLED ON EXTERIOR LOCATIONS SHALL BE RATED FOR WET LOCATION, WEATHER RESISTANCE AND WEATHERPROOF.
6. PROVIDE WEATHERPROOF SEAL TO ALL EXTERIOR PENETRATION.
7. PROVIDE PERMANENT LABEL ON EACH OF THE SWITCHBOARD, DISTRIBUTION BOARD AND PANELS ON THE RATING OF EACH UNIT AS INDICATED IN THE PLAN.
8. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION OF PERSONNEL ON RECEPTACLE(S) LOCATED IN (A) BATHROOM, GARAGES, OUTDOORS, CRAM SPACES, UNFINISHED BASEMENTS, KITCHEN COUNTER TOPS, LAUNDRY AREAS, AND WHEN LOCATED WITHIN 6' FROM THE OUTER EDGE OF A SINK, BATHTUB OR SHOWER STALL IN DWELLING UNITS. (B) LOCATED IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS, LOCKER ROOMS, OR GARAGES IN OTHER THAN DWELLING UNITS. (C) BOAT HOIST IN DWELLING UNIT LOCATION. (D) KITCHEN DISH WASHER BRANCH CIRCUIT IN DWELLING UNITS, LAUNDRY AREAS, AND KITCHENS. IF THE RECEPTACLE IS LOCATED AT THE BACK OF A LARGE EQUIPMENT THE RECEPTACLE OUTLET MAY NOT BE A GFI TYPE BUT THE CIRCUIT BREAKER THAT SUPPLY THE RECEPTACLE OUTLET SHALL BE GFI TYPE, TYPICAL.

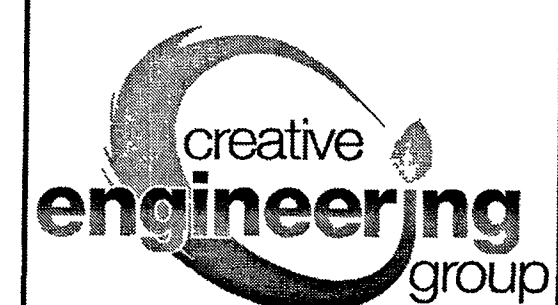
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WEBSITE: WWW.C-E-G.COM

SEAL AND STAMP



ISSUE DATES

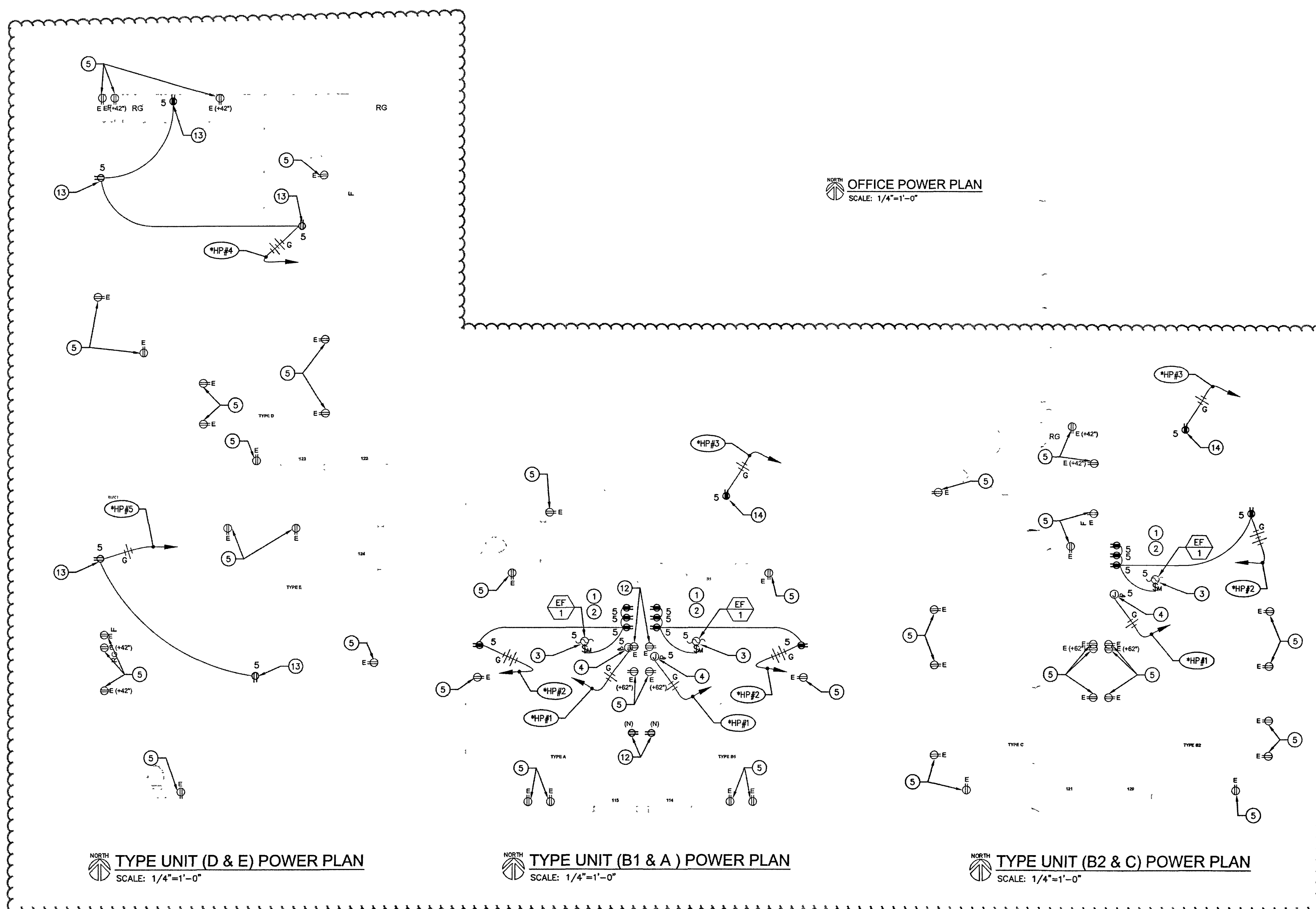
DESCRIPTION	DATE
MEP REVISION	02/22/2023

JOB	AS SHOWN	CEG
SCALE	DATE	02/22/2023
DRAWN	SHEET TITLE	

**ENLARGE TYP.
UNITS POWER
PLAN A, B, C, D,
E, B.1 (ADA), MU**

SHEET NO

E-4.0

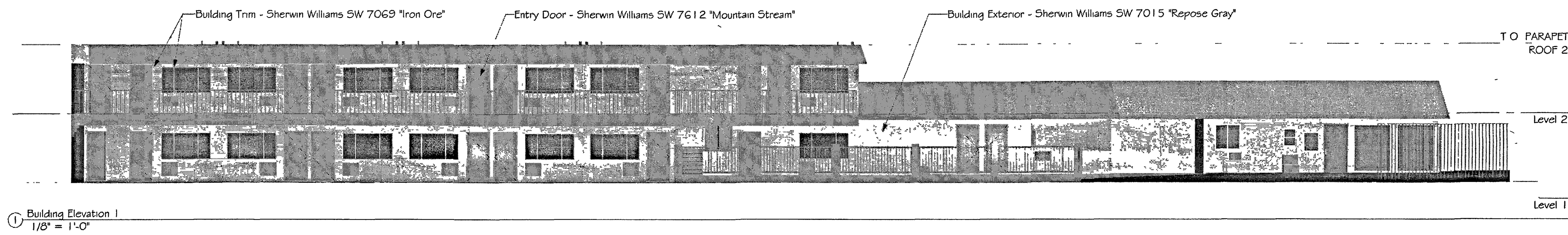


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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: new 20200601	Report Generated: 2022-11-23 11:49:07

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E-5.0

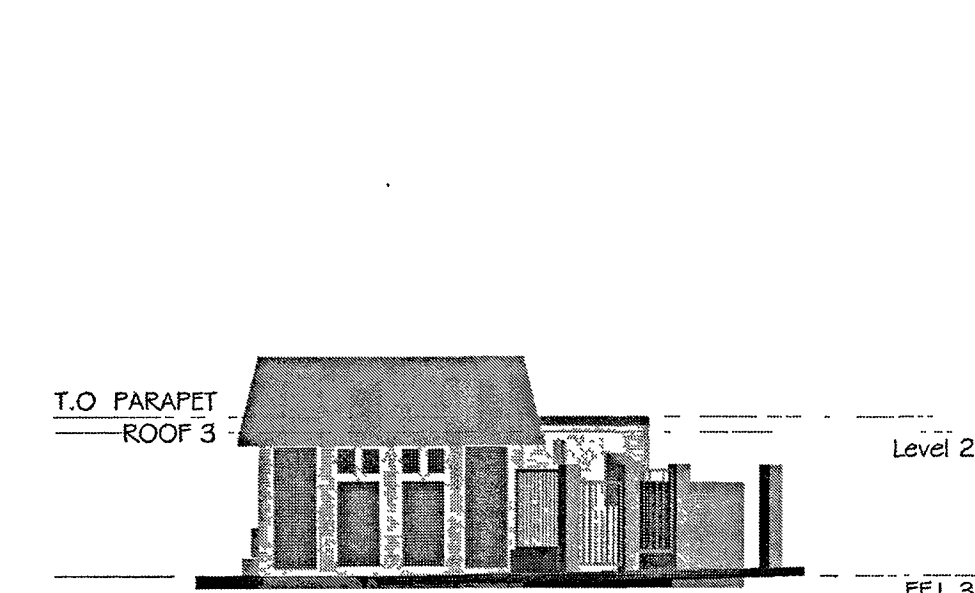
REVISION	
FIRST SUBMITTAL	10/10/2022



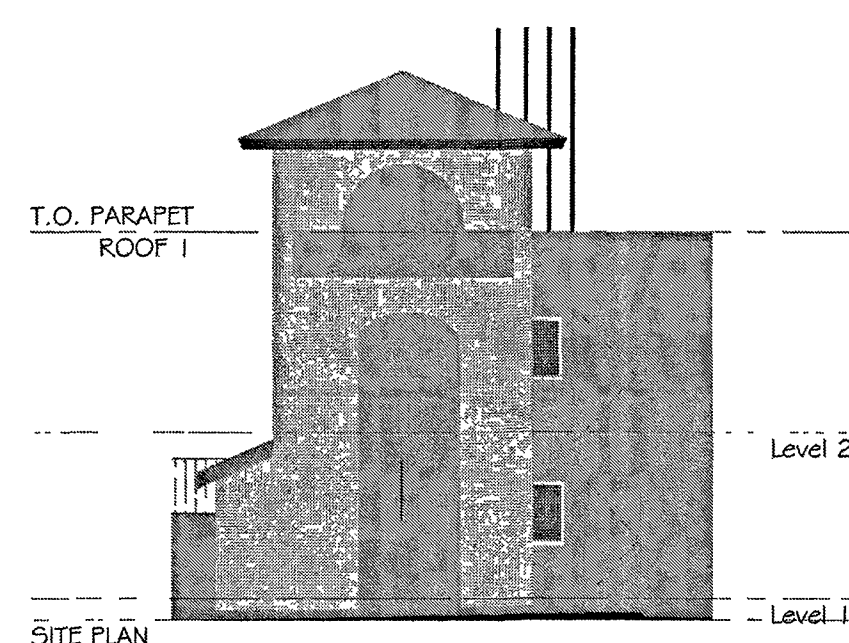
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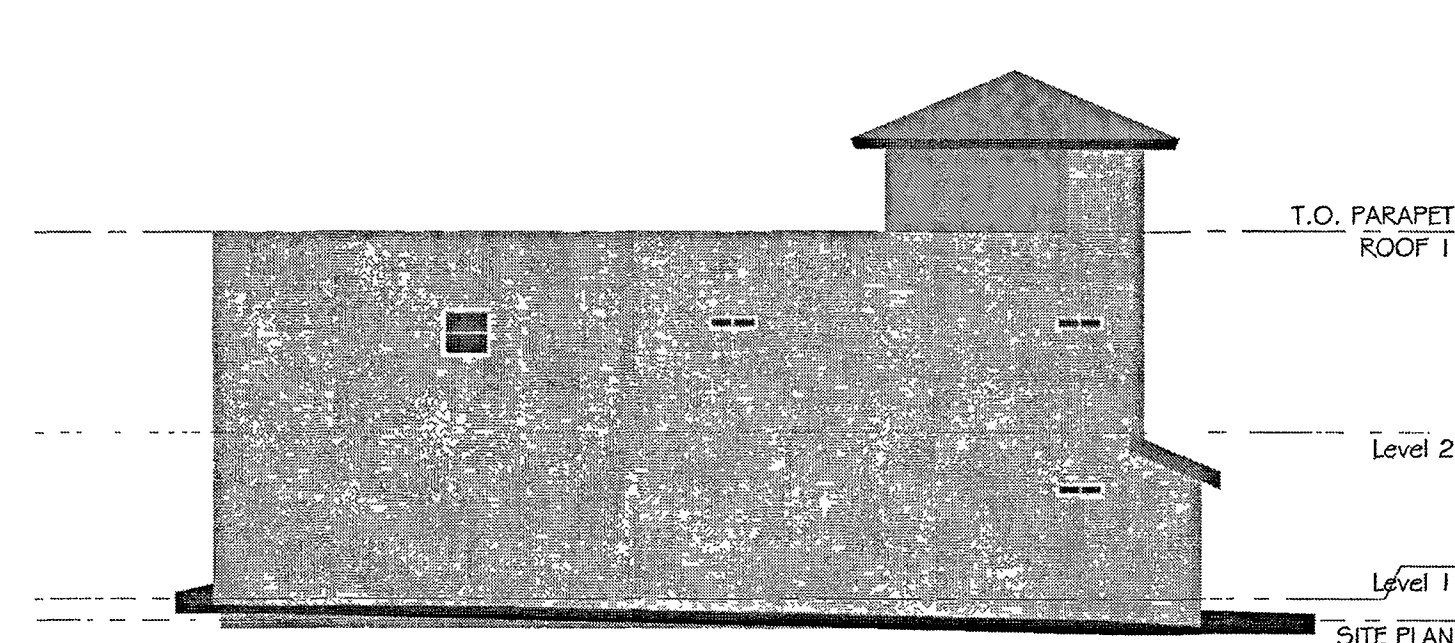
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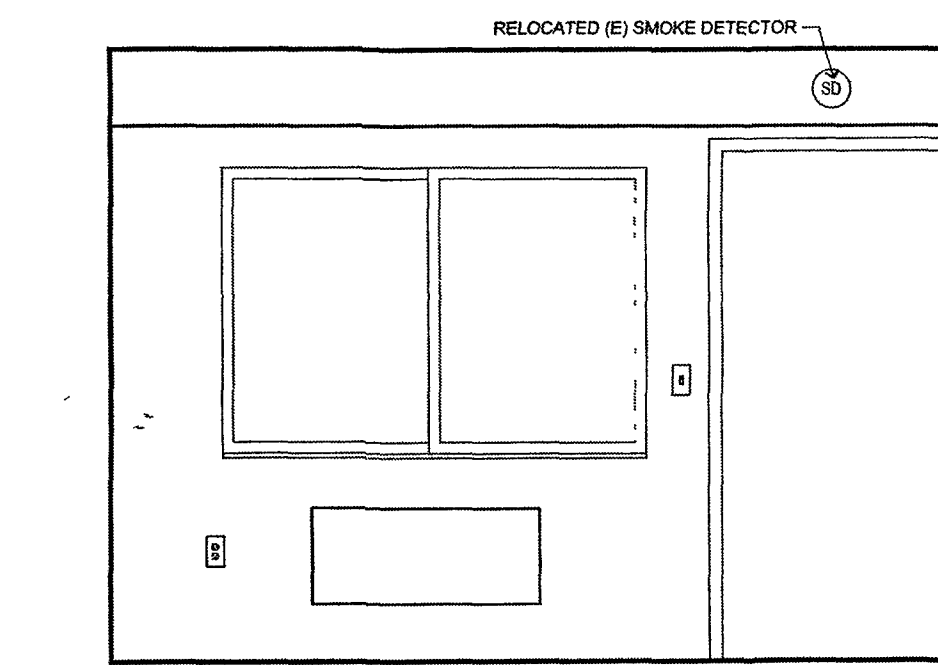
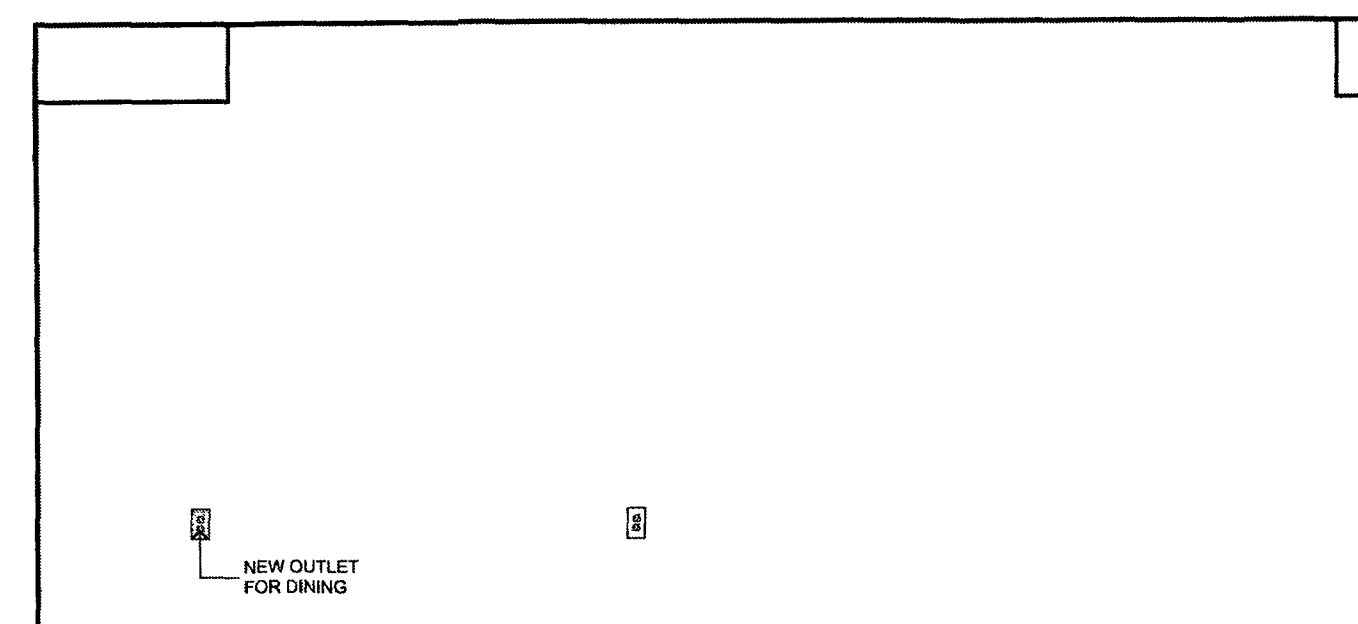
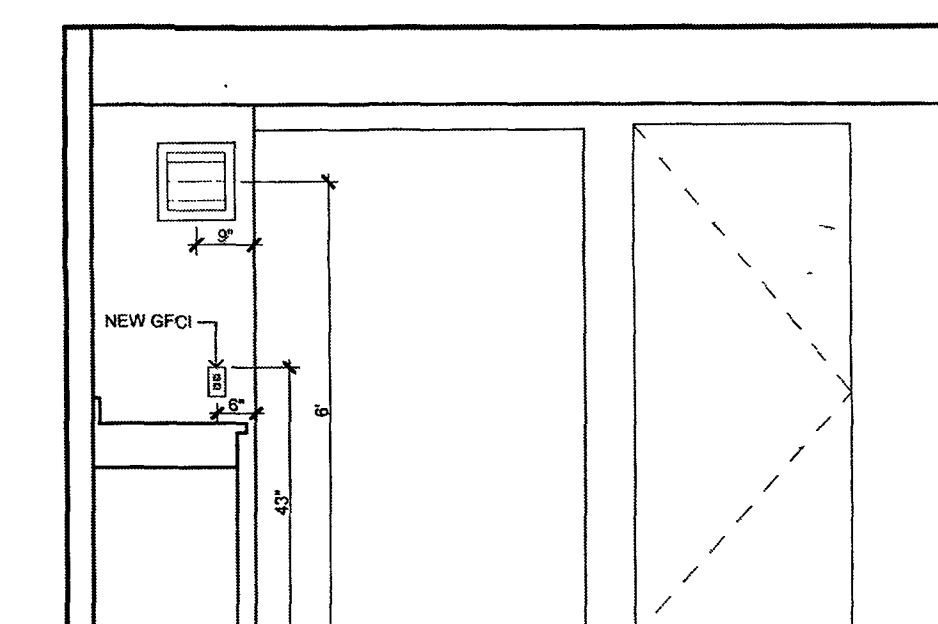
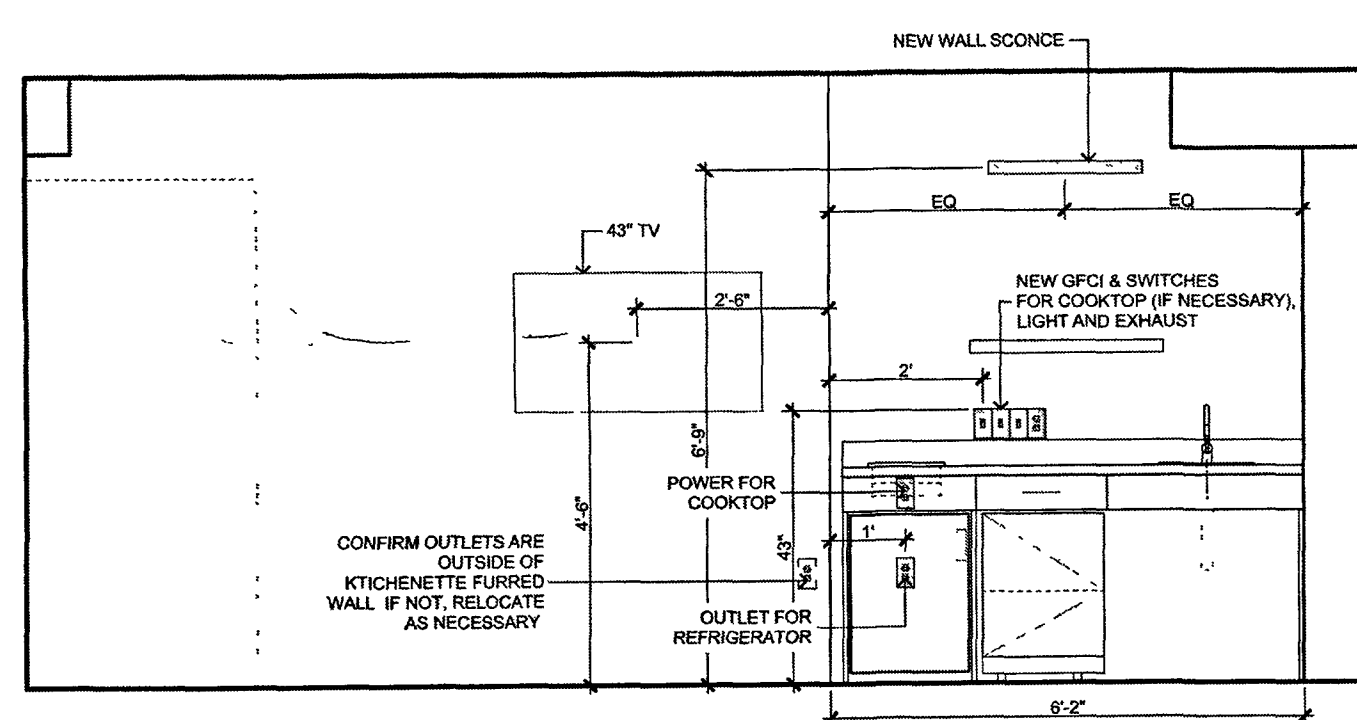
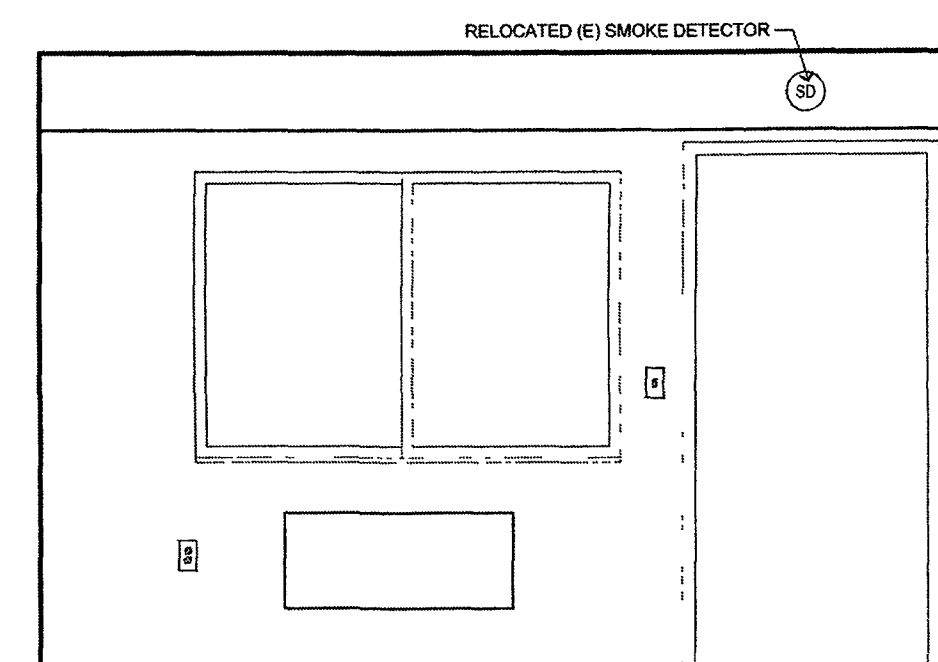
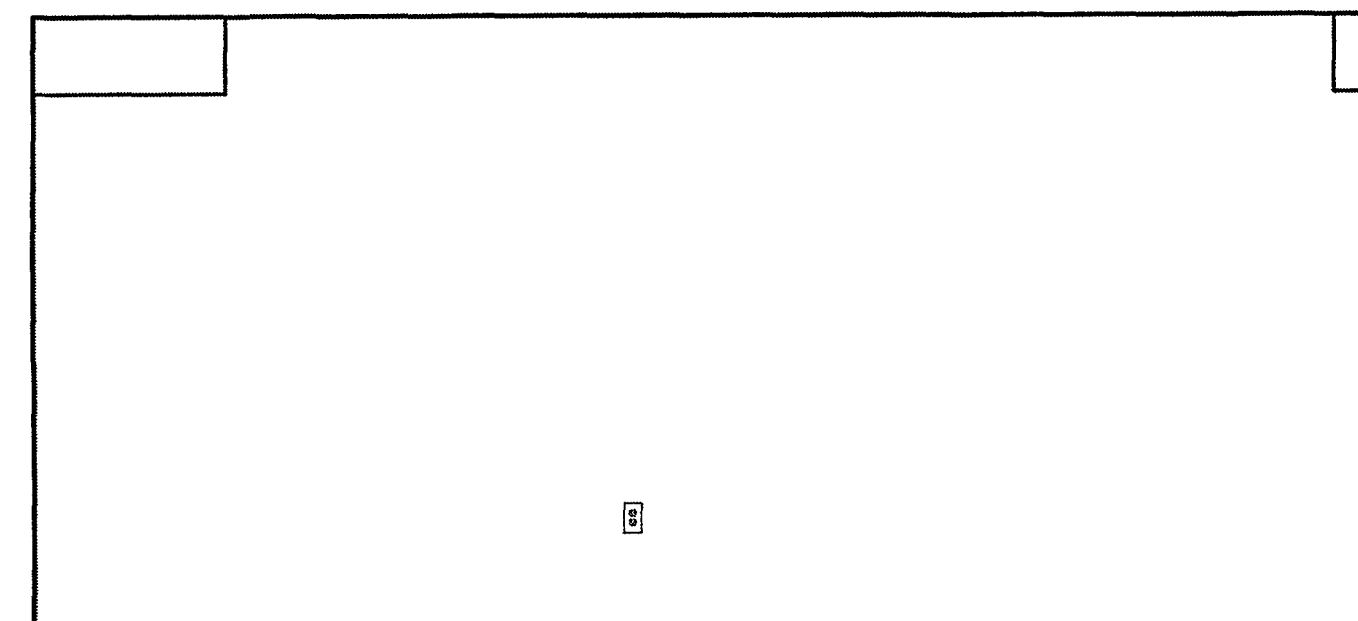
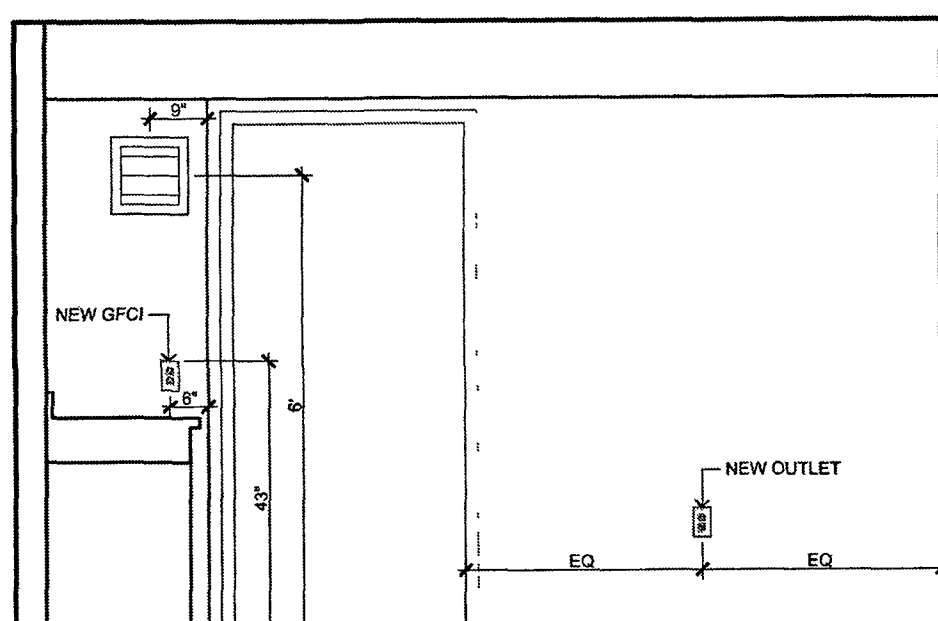
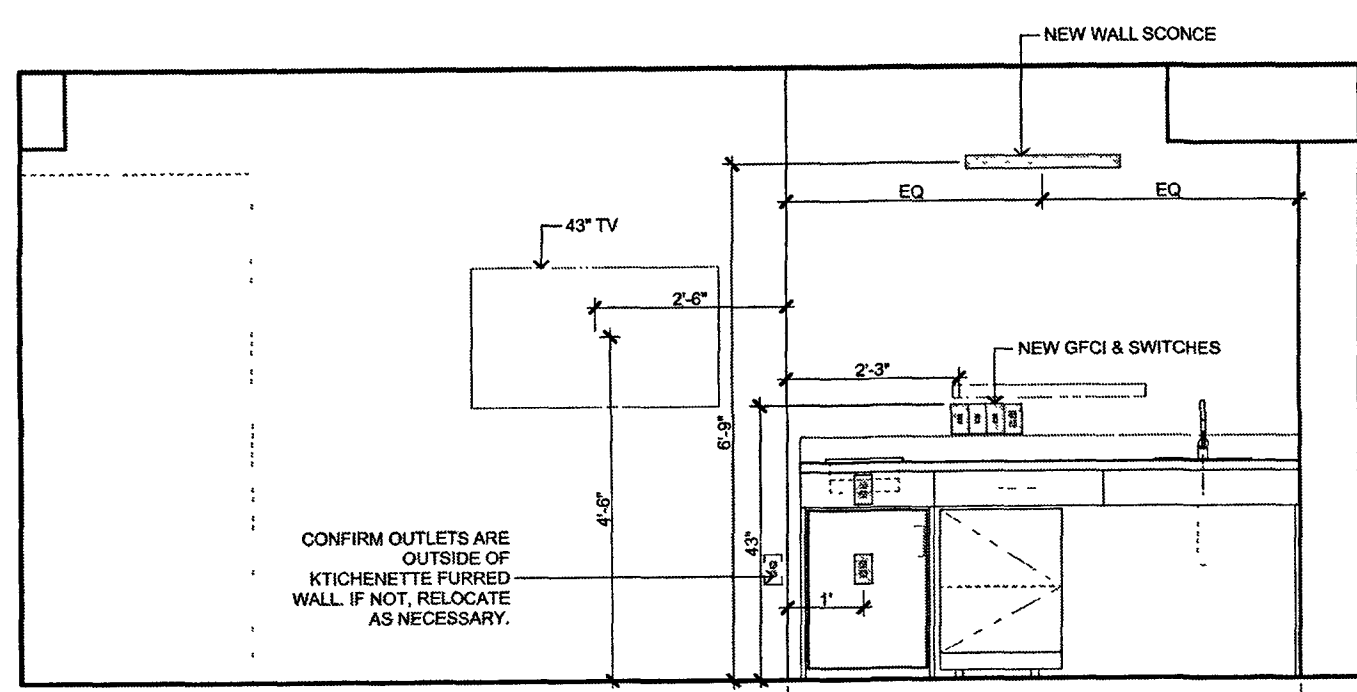
② Building Elevation 3
1/8" = 1'-0"



⑤ Building Elevation 4
1/8" = 1'-0"



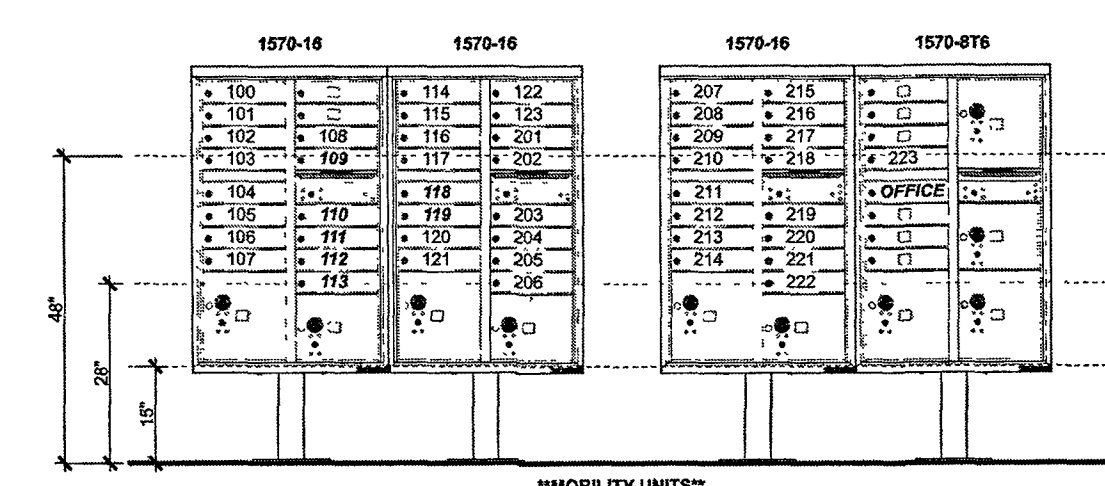
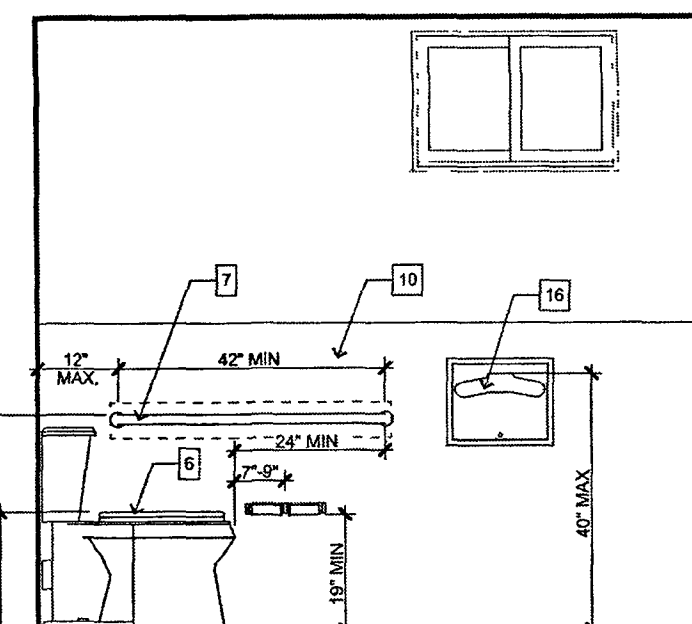
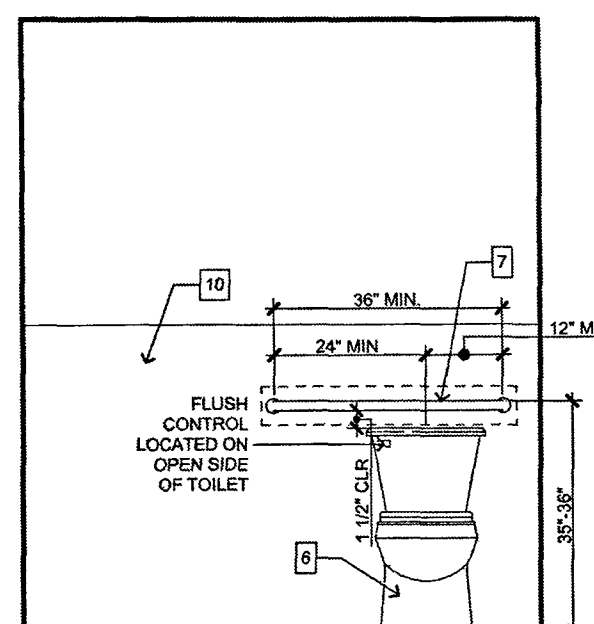
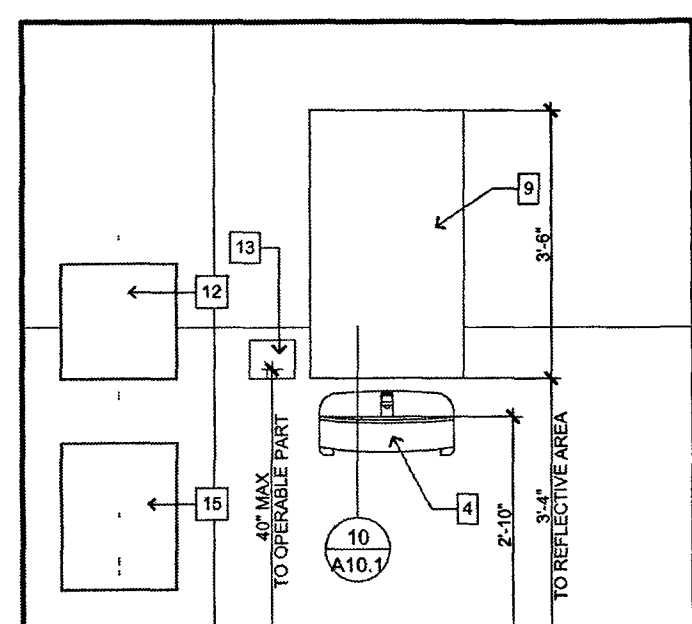
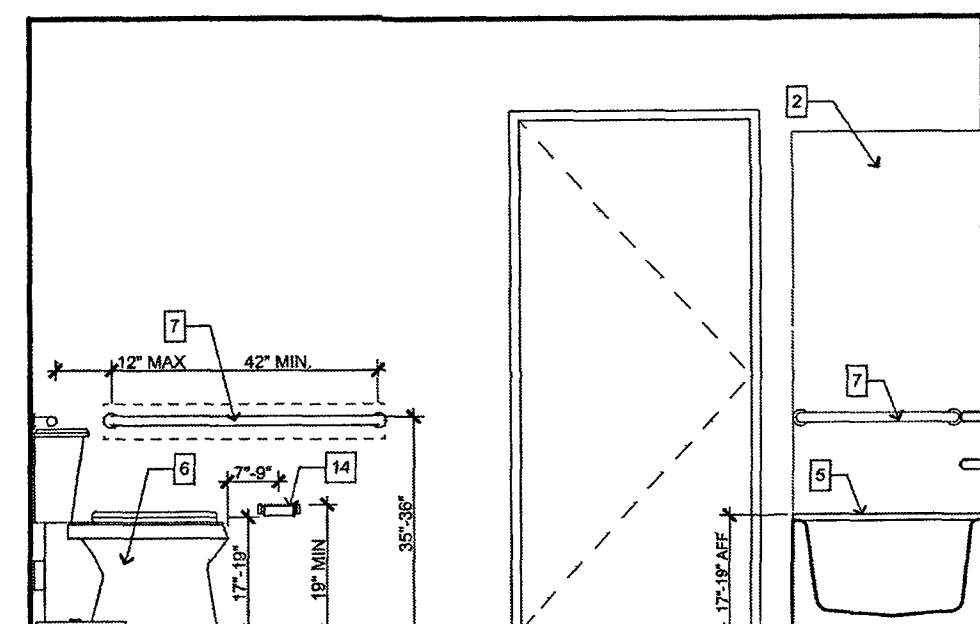
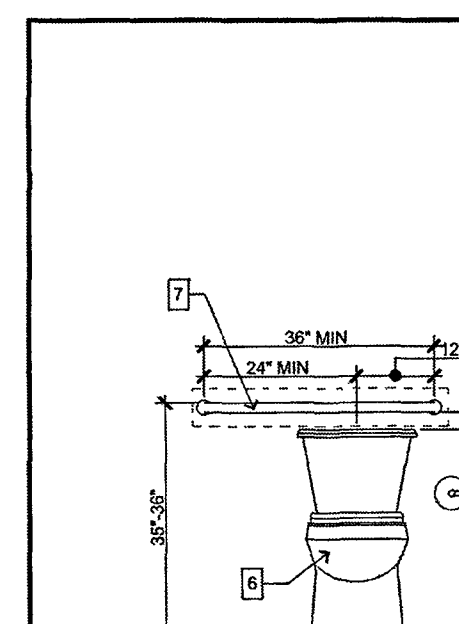
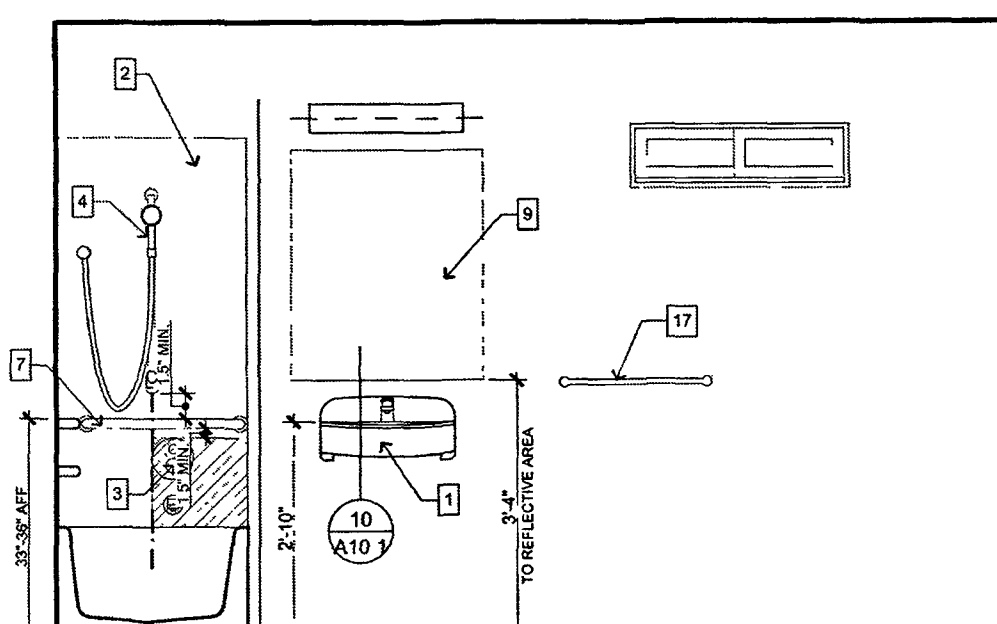
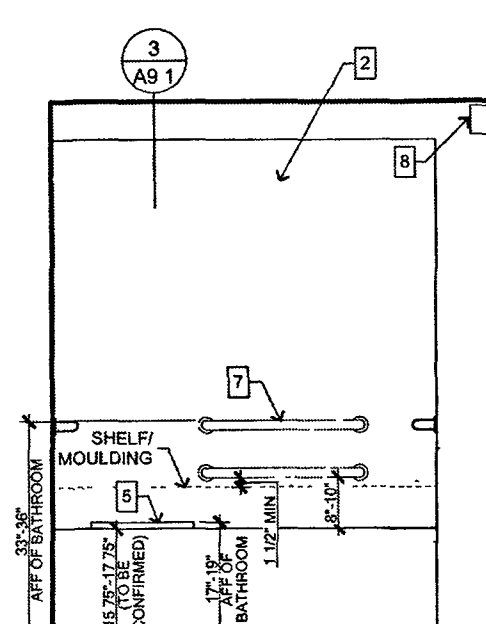
④ Building Elevation 5
1/8" = 1'-0"



INTERIOR ELEVATION KEYNOTES:

1. NEW WALL-MOUNTED LAVATORY. PROVIDE KNEE SPACE PER DETAIL.
2. NEW 30\"/>

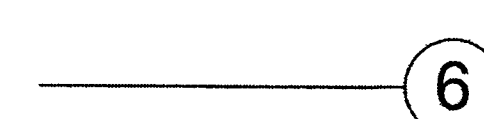
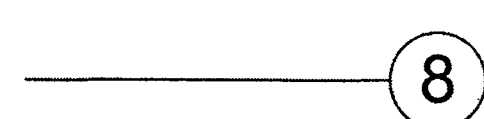
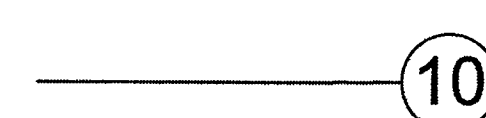
**SEE A10 SHEETS FOR FURTHER ACCESSIBILITY REQUIREMENTS.

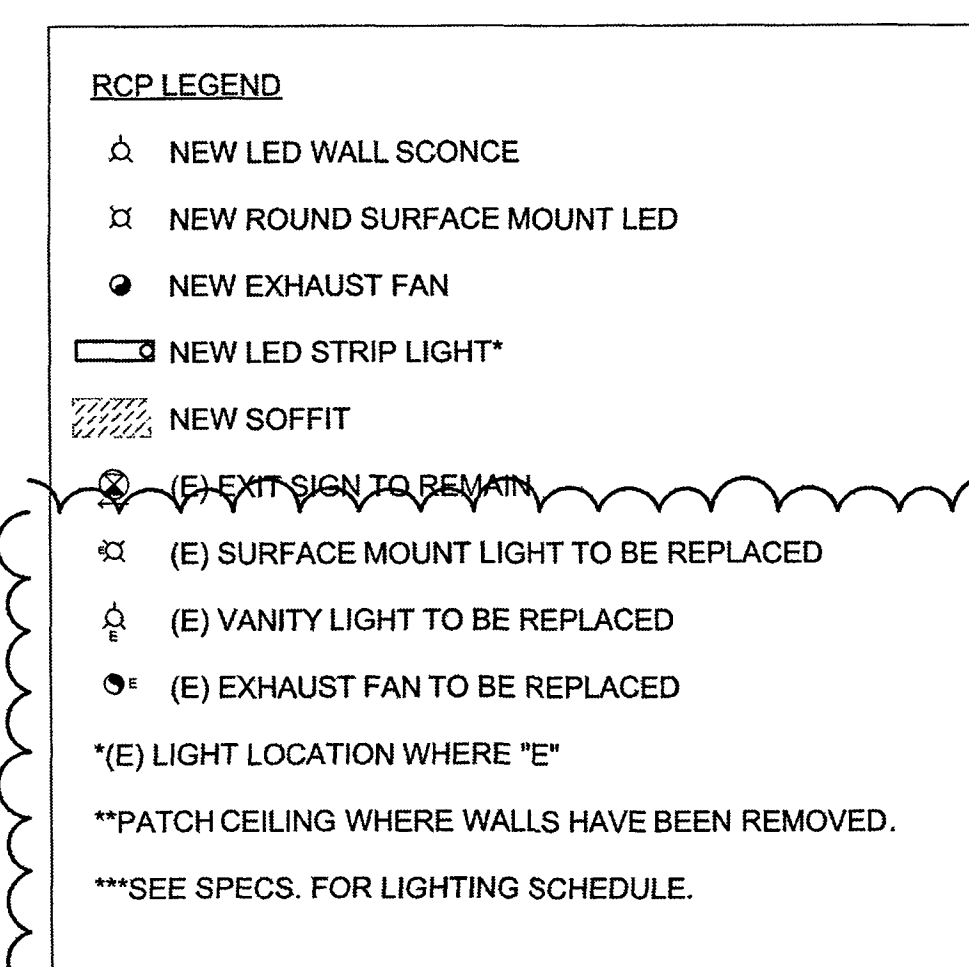


THIS DRAWING OR ANY PART HEREOF IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF BARDОВI ARCHITECTS. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING OR ANY PART HEREOF WITHOUT THE WRITTEN PERMISSION OF BARDОВI ARCHITECTS IS PROHIBITED.

DATE: 2/28/2023
DRAWN BY:
CHECKED BY:
PROJECT NUMBER: 1558

REVISION	DATE
FIRST SUBMITTAL	10/19/2022



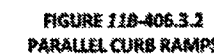
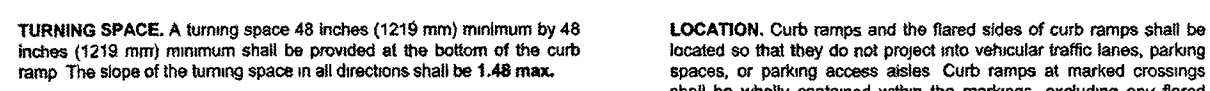


1



GENERAL. Curb ramps, blended transitions and islands on accessible routes shall comply with Section 11B- 406. Curb ramps may be perpendicular, parallel, or a combination of perpendicular and parallel.

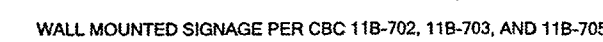
LANDINGS. Landings shall be provided at the top of curb ramps and blended transitions. The landing clear length shall be 48 inches (1219 mm) minimum. The landing clear width shall be at least as wide as the curb ramp excluding any flared sides, or the blended transition leading to the landing. The slope of the landing in all directions shall be 1:48 maximum.



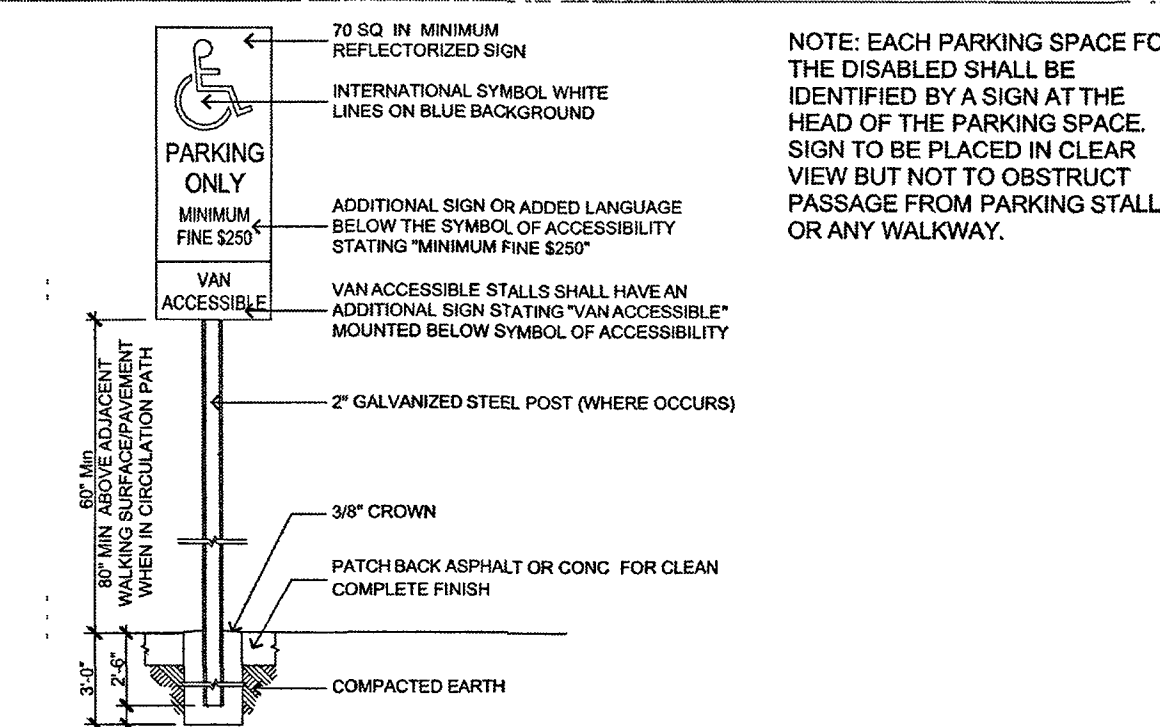
THESE DIAGRAMS ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS
AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities.

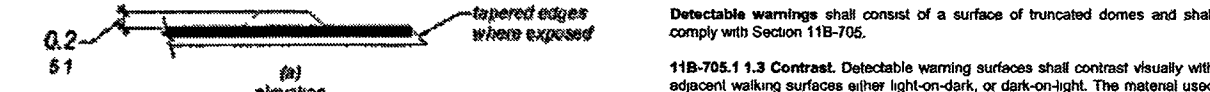
Page 1 of 4



RESTROOM WALL SIGNAGE



ACCESSIBLE PARKING SIGN 2

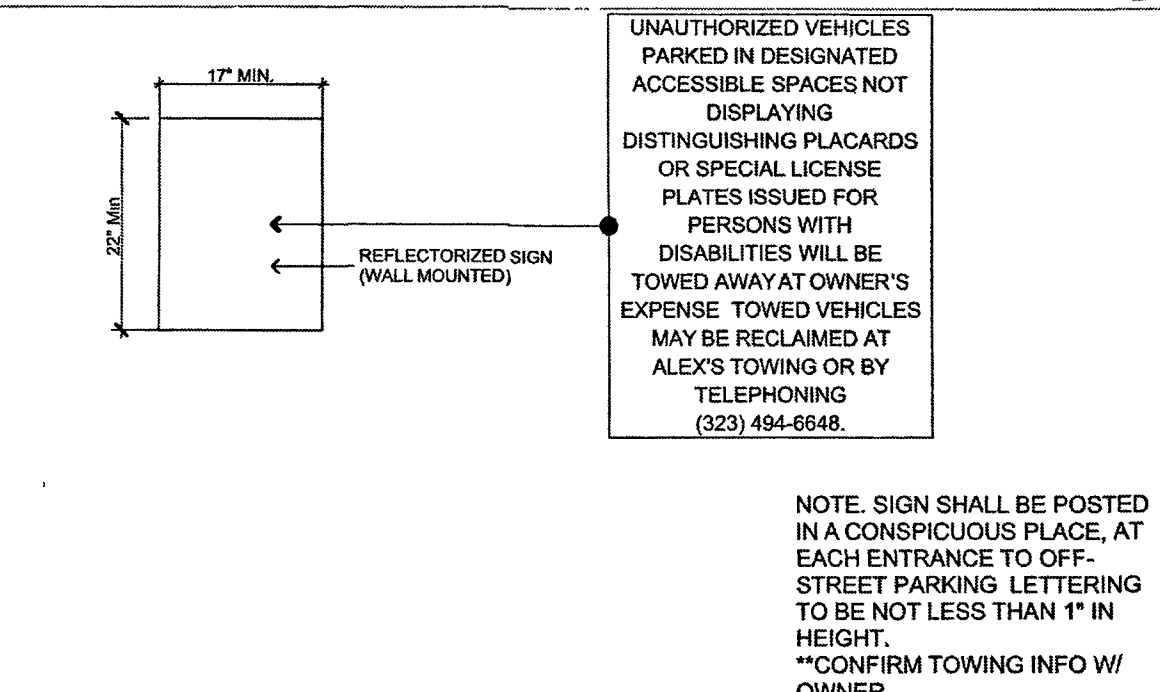


As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities

Page 4 of 4



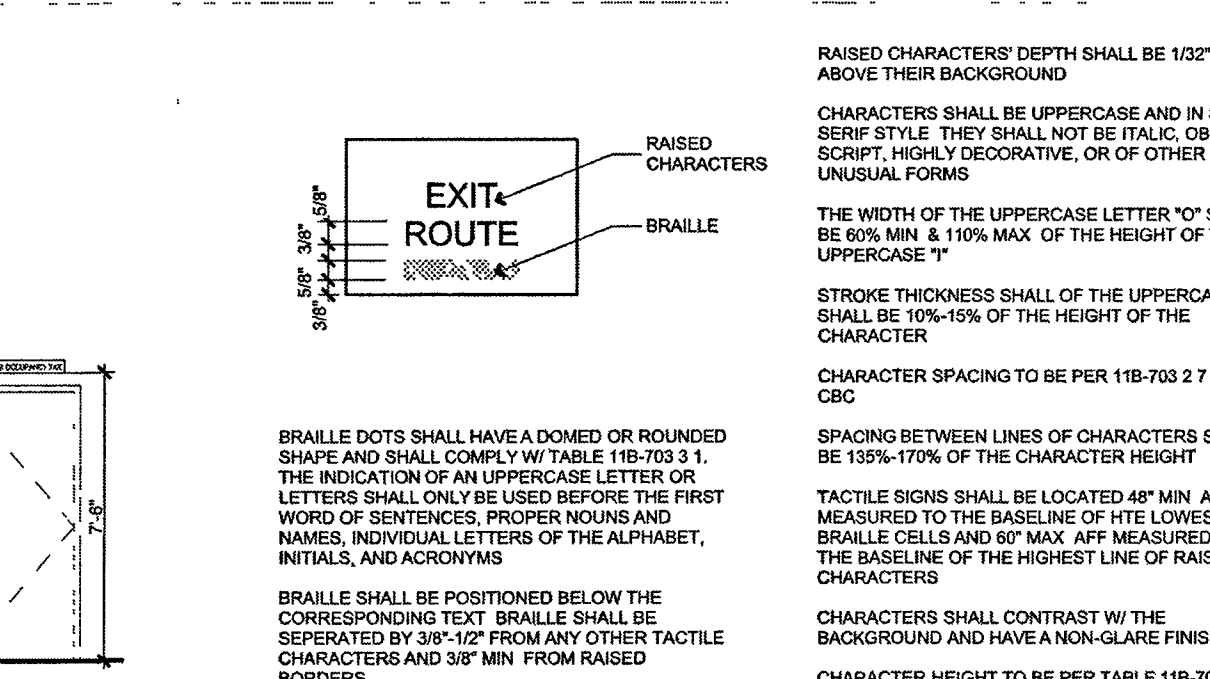
REMOVEABLE CABINET @ KITCHENETTE



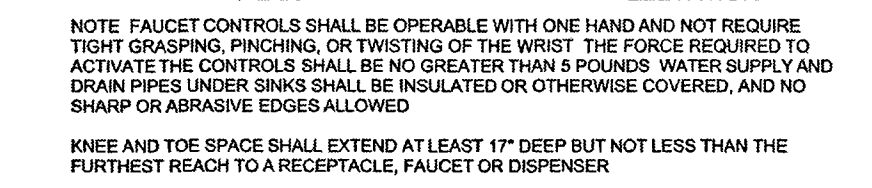
AUTHORIZATION SIGN 3



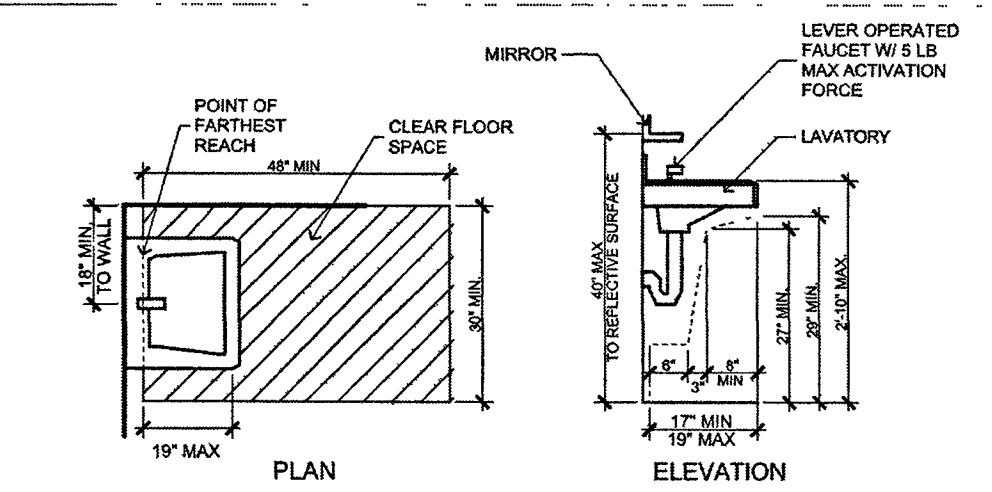
INTL. SYMBOL OF ACCESSIBILITY 4



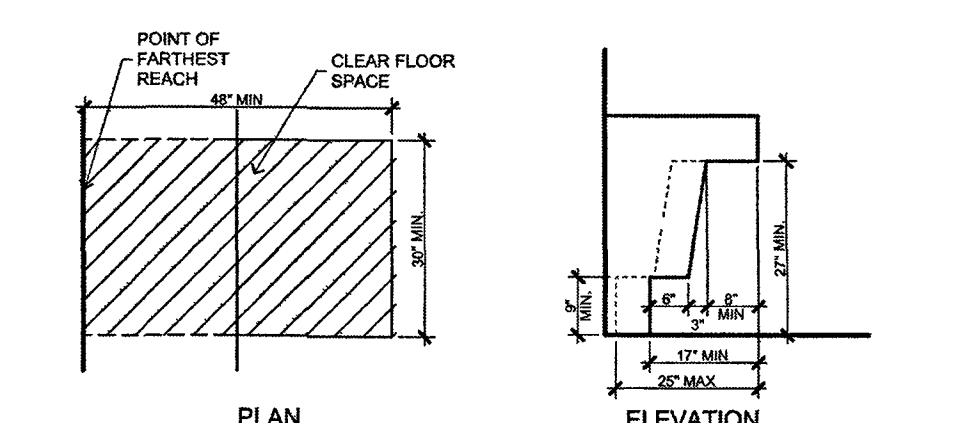
TACTILE SIGNAGE 20



KNEE AND TOE SPACE @ KIT. SCALE 1/2" = 1'-0" 15



KNEE AND TOE SPACE @ LAVATORY 10



GENERAL KNEE AND TOE SPACE 5

GENERAL NOTES

1. All grading and construction shall conform to 2019 California Building Code and Monterey County Local Amendment unless specifically noted on these plans.

2. Any modifications of, or changes to, approved grading plans must be approved by the Building Official.

3. No grading shall be started without first notifying the Building Official. A Pre-grading meeting of the site is required before the start of the grading with the following people present: Owner, grading contractor, design civil engineer, soils engineer, geologist, City grading inspector(s) or their representatives, and when required the archaeologist or other jurisdictional agencies. Permittee or his agent are responsible for arranging Pre-grade meeting and must notify the Building Official at least two business days prior to proposed pre-grade meeting.

4. Approval of these plans reflect solely the review of plans in accordance with the 2019 California Building Code and Monterey County Local Amendment and does not reflect any position by King City regarding the status of any title issues relating to the land on which the improvements may be constructed. Any disputes relating to title are solely a private matter not involving King City.

5. California Public Resources Code (Section 5097.98) and Health and Safety Code (Section 7050.5) address the discovery and disposition of human remains. In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, the law requires that grading immediately stops and no further excavation or disturbance of the site, or any nearby area where human remains may be located, occur until the following measures have been taken:

a. The County Coroner has been informed and has determined that no investigation of the cause of death is required, and
b. If the remains are of Native American origin, the descendants from the deceased Native Americans have made a recommendation for the means of treating or disposing, with appropriate dignity, of the human remains and any associated grave goods.

6. The location and protection of all utilities is the responsibility of the Permittee.

7. All export of material from the site must go to a permitted site approved by the Building Official or a legal dumpsite. Receipts for acceptance of excess material by a dumpsite are required and must be provided to the Building Official upon request.

8. A copy of the grading permit and approved grading plans must be in the possession of a responsible person and available at the site at all times.

9. Site boundaries, easements, drainage devices, restricted use areas shall be located per construction staking by Field Engineer or licensed surveyor. Prior to grading, as requested by the Building Official, all property lines, easements, and restricted use areas shall be staked.

10. If grading authorized by this plan is to extend through the rainy season, October 1 through April 15 of the following year, separate updated plans for erosion control must be submitted prior to October.

11. Transfer of Responsibility: If the civil engineer, the soils engineer, or the engineering geologist of record is changed during grading, the work shall be stopped until the replacement has agreed in writing to accept their responsibility within the area of technical competence for approval upon completion of the work. It shall be the duty of the permittee to notify the Building Official in writing of such change prior to the recommencement of such grading.

INSPECTION NOTES

12. The permittee or his agent shall notify the Building Official at least one working day in advance of required inspections at the following stages of the work.
(a) Initial. When the site has been cleared of vegetation and unapproved fill has been scarified, banded or otherwise prepared for fill. Fill shall not be placed prior to this inspection. Note: Prior to any construction activities, including grading, all storm water pollution prevention measures, including erosion control devices which contain sediments, must be installed.
(b) When approximate final elevations have been established: drainage terraces, swales and berms installed at the top of the slope and the required in this Section have been received.

(c) When grading has been completed and all drainage devices installed slope planting established irrigation systems installed and the As-Built plans, required statements, and reports have been submitted and approved.

13. In addition to the inspection required of the Building Official for regular grading, reports and statements shall be submitted to the Building Official.

14. All graded sites must have drainage swales, berms, and other drainage devices installed prior to rough grading approval.

15. Final grading must be approved before occupancy of buildings will be allowed.

DRAINAGE NOTES

16. Roof drainage must be diverted from graded slopes.

17. Provisions shall be made for contributory drainage at all times.

19. All storm drain work is to be done under continuous inspection by the Field Engineer. Weekly status reports shall be submitted by the Field Engineer to the local Building and Safety District Office.

20. An encroachment permit from King City is required for all work within or affecting the road right of way. All work within the road right-of-way shall conform to the King City encroachment permit.

GENERAL GEOTECHNICAL NOTES

21. All work must be in compliance with the recommendations included in the geotechnical consultant's report(s) and the approved grading plans and specifications.

22. Grading operations must be conducted under periodic inspections by the geotechnical consultants with monthly inspection reports to be submitted to the Geology and Soils Section.

23. The soils engineer shall provide sufficient inspections during the preparation of the natural ground and the placement and compaction of the fill to be satisfied that the work is being performed in accordance with the plan and applicable Code requirements.

24. Rough grading must be approved by a final engineering geology and soils engineering report. An As-Built geologic Map must be included in the final geology report. Provide a final report statement that verifies work was done in accordance with report recommendations and code provisions.

25. Foundation, wall, and pool excavations must be inspected and approved by the consulting geologist and soils engineer, prior to the placing of steel or concrete.

26. Building pads located in cut/fill transition areas shall be over-excavated to a minimum of three (3) feet below the proposed bottom of footing.

27. Retaining walls located closer to the property line than the height of the wall shall be backfilled not later than 10 days after construction of the wall and necessary structural supporting members unless recommended otherwise by responsible engineer.

FILL NOTES

27. All fill shall be compacted to the following minimum relative compaction criteria:
a. 90 percent of maximum dry density within 40 feet below finished grade.
b. 93 percent of maximum dry density deeper than 40 feet below finished grade, unless a lower relative compaction (not less than 90 percent of maximum dry density) is justified by the geotechnical engineer.

The relative compaction shall be determined by A.S.T.M. soil compaction test D1557 where applicable. Where not applicable, a test acceptable to the Building Official shall be used.

28. Field density shall be determined by a method acceptable to the Building Official.

29. Sufficient tests of the fill soils shall be made to determine the relative compaction of the fill in accordance with the following minimum guidelines:
a. One test for each two-foot vertical lift.
b. One test for each 1,000 cubic yards of material placed.

c. One test at the location of the final fill slope, for each building site (lot), in each four-foot vertical lift or portion thereof.
d. One test in the vicinity of each building pad for each four-foot vertical lift or portion thereof.

30. Sufficient tests of fill soils shall be made to verify that the soil properties comply with the design requirements, as determined by the Soils Engineer, including soil types, shear strengths parameters, and corresponding unit weights in accordance with the following guidelines:
a. Prior and subsequent to placement of the fill, shear tests shall be taken on each type of soil or soil mixture to be used for all fill slopes steeper than three (3) horizontal to one vertical.
b. Shear test results for the proposed fill material must meet or exceed the design values used in the geotechnical report to determine slope stability requirements. Otherwise, the slope must be re-evaluated using the actual shear test value of the fill material that is in place.

c. Fill soils shall be free of deleterious materials.

31. Fill shall not be placed until stripping of vegetation, removal of unsuitable soils, and installation of subdrains (if any) have been inspected and approved by the soils engineer. The Building Official may require a "Standard Test Method" for moisture, ash, organic matter, peat or other organic soils and/or "ASTM D-2914-97" on any suspect material. Detrimental amounts of organic material shall not be permitted in fills. Soil containing small amounts of roots may be allowed, provided that the roots are in a quantity and distributed in a manner that will not be detrimental to the future use of the site and the soils engineer approves the use of such material.

40. Rock or similar material greater than 12 inches in diameter shall not be placed in the fill unless recommendations for such placement have been submitted by the soils engineer and approved in advance by the Building Official. Location, extent, and elevation of rock disposal areas must be shown on an "As Built" and "grading plan".

REVISED

CITY OF KING

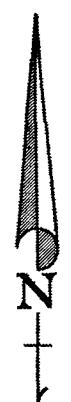
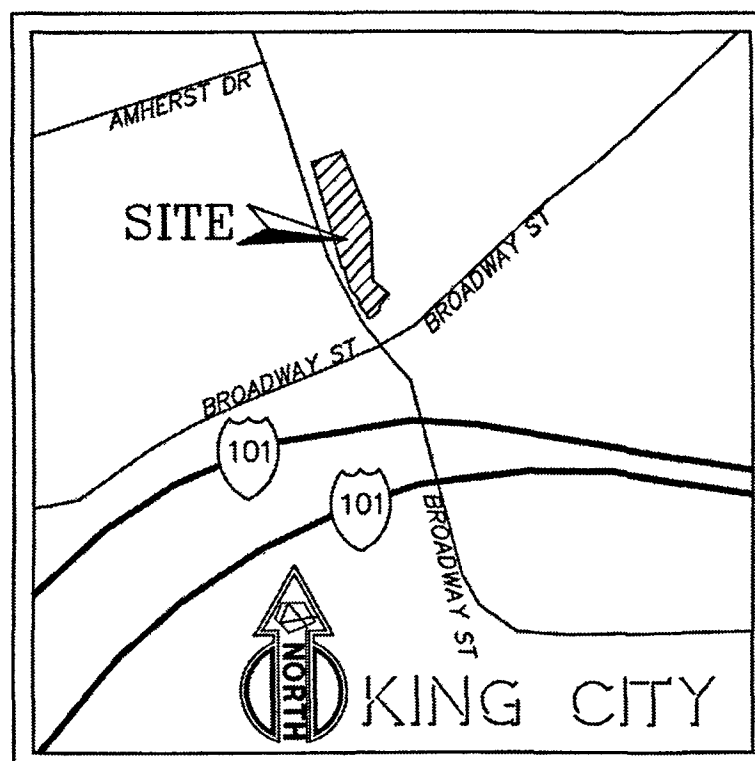
03/30/2023

City of King
Approved

04/03/2023

SHEET INDEX

SHEET 1 GRADING AND DRAINAGE PLAN COVER SHEET
SHEET 2 GRADING AND DRAINAGE PLAN
SHEET 3 LOW IMPACT DEVELOPMENT



ATTACHMENT "B" NOTES

- Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
- Eroded sediments and other pollutants must be retained on-site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses, or wind.
- Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
- Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on-site until they can be disposed of as solid waste.
- Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
- Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
- Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
- As the project owner or authorized agent of the owner, I have read and understand the requirements listed above, necessary to control storm water pollution from sediments, erosion, and construction materials, and I certify that I will comply with these requirements.

Print Name _____ (Owner or authorized agent of the owner)

Signature _____ (Owner or authorized agent of the owner)

Date _____

The following BMPs, as outlined in, but not limited to, the California Stormwater Best Management Practice Handbook, January 2003 or the latest revised edition, may apply during the construction of this project (additional measures may be required if deemed appropriate by County Inspectors)

- EROSION CONTROL
- EC1 - SCHEDULING
 - EC2 - PRESERVATION OF EXISTING VEGETATION
 - EC3 - HYDRAULIC MULCH
 - EC4 - HYDROSEEDING
 - EC5 - SOIL BINDERS
 - EC6 - STRAW MULCH
 - EC7 - GEOTEXTILES & MATS
 - EC8 - WOOD MULCHING
 - EC9 - EARTH DIKES AND DRAINAGE SWALES
 - EC10 - VELOCITY DISSIPATION DEVICES
 - EC11 - SLOPE DRAINS
 - EC12 - STREAMBANK STABILIZATION
 - EC13 - POLYACRYLAMIDE

- TEMPORARY SEDIMENT CONTROL
- SE1 - SILT FENCE
 - SE2 - SEDIMENT BASIN
 - SE3 - SEDIMENT TRAP
 - SE4 - CHECK DAM
 - SE5 - FIBER ROLLS
 - SE6 - GRAVEL BAG BERM
 - SE7 - STREET SWEEPING AND VACUUMING
 - SE8 - SANDBAG BARRIER
 - SE9 - STRAW BALE BARRIER
 - SE10 - STORM DRAIN INLET PROTECTION

WIND EROSION CONTROL

- WE1 - WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL

- TC1 - STABILIZED CONSTRUCTION ENTRANCE EXIT
- TC2 - STABILIZED CONSTRUCTION ROADWAY
- TC3 - ENTRANCE/OUTLET TIRE WASH

NON-STORMWATER MANAGEMENT

- NS1 - WATER CONSERVATION PRACTICES
- NS2 - DEWATERING OPERATIONS
- NS3 - PAVING AND GRINDING OPERATIONS
- NS4 - TEMPORARY STREAM CROSSING
- NS5 - CLEAR WATER DIVERSION
- NS6 - ILLICIT CONNECTION/DISCHARGE
- NS7 - POTABLE WATER/IRRIGATION
- NS8 - VEHICLE AND EQUIPMENT CLEANING
- NS9 - VEHICLE AND EQUIPMENT FUELING
- NS10 - VEHICLE AND EQUIPMENT MAINTENANCE
- NS11 - PILE DRIVING OPERATIONS
- NS12 - CONCRETE CURING
- NS13 - CONCRETE FINISHING
- NS14 - MATERIAL AND EQUIPMENT USE
- NS15 - DEMOLITION ADJACENT TO WATER
- NS16 - TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL

- WM1 - MATERIAL DELIVERY AND STORAGE
- WM2 - MATERIAL USE
- WM3 - STOCKPILE MANAGEMENT
- WM4 - SPILL PREVENTION AND CONTROL
- WM5 - SOLID WASTE MANAGEMENT
- WM6 - HAZARDOUS WASTE MANAGEMENT
- WM7 - CONTAMINATION SOIL MANAGEMENT
- WM8 - CONCRETE WASTE MANAGEMENT
- WM9 - SANITARY/SEPTIC WASTE MANAGEMENT
- WM10 - LIQUID WASTE MANAGEMENT

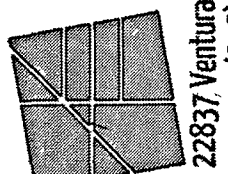


PREPARED UNDER THE DIRECTION OF

David Silverman 3/29/2023

DAVID SILVERMAN DATE
PE 58650

Advanced Engineering
& Consulting



22837 Veterans Blvd, Suite 100, Woodland Hills, CA 91364
(818) 222-7582

DATE 3/29/2023
DRAWN ELAIE-RAFFEE
DESIGNED ELAIE-RAFFEE
CHECKED DAVID SILVERMAN

OWNER

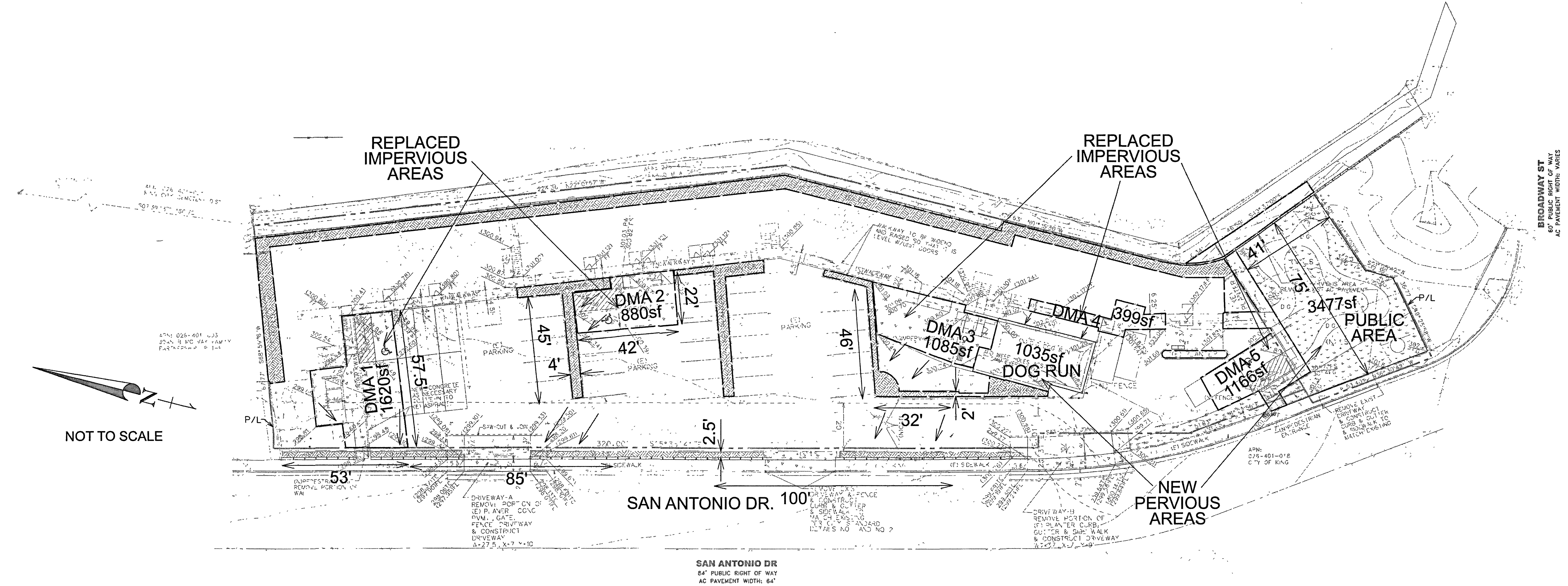
NO.	DATE	REVISION DESCRIPTION

SHEET TITLE GRADING & DRAINAGE PLAN
COVER SHEET

SHEET NO.

1

OF 3 SHEETS



Tier 1 Stormwater Control Plan Project Data

Project Name / Case File Number	Days Inn King City
Application Submittal Date [to be verified by municipal staff]	
Project Location [Street Address if available, or intersection and/or APN]	1130 Broadway Street APN 026-401-020
Name of Owner or Developer	Shangri-la Construction
Project Type and Description [Examples: "Single Family Residence," "Parking Lot Addition," "Retail and Parking"]	Parking lot remodel for handicap accessibility and pool removal on an existing Days Inn site.
Total Project Site Area (acres)	1.05 acres
Total New Impervious Surface Area (square foot) [Sum of currently pervious areas that will be covered with new impervious surfaces]	0
Total Replaced Impervious Surface Area [Sum of currently impervious areas that will be covered with new impervious surfaces.]	2,650 sf
Total Pre-Project Impervious Surface Area	41,514 sf
Total Post-Project Impervious Surface Area	36,245 sf
Runoff Reduction Measure(s) Selected (Check one or more)	☒ 1. Disperse runoff from roofs or pavement to vegetated area ☐ 2. Permeable pavement ☐ 3. Cisterns or Rain Barrels ☐ 4. Bioretention Facility or Planter Box

LEGEND



- DMA's TO SHEET FLOW TO ADJACENT PLANTERS AND TO PLANTERS ALONG EAST SIDE OF PROPERTY.
- PROVIDE 3" CURB CUTS EVERY 5' TO ALLOW WATER TO ENTER PLANTERS AND BE DISPERSED.
- REQUEST CREDIT FOR 4312 SF OF IMPERVIOUS AREA MADE PERVIOUS IN LIEU OF PROVIDING THE TOTAL REQUIRED LANDSCAPING AREA.

DMA	AREA (sf)	REQ'D LS (sf)	PROVIDED (sf)
DMA 1	1620	810	133
DMA 2	880	440	392
DMA 3	1085	542.5	462
DMA 4	399	200	200
DMA 5	1166	583	395

__ Pervious areas must be relatively flat and if graded, the surface should be slightly concave. __ Tributary impervious square footage in no instance exceeds twice the square footage of the receiving pervious area. On your sketch, show rough dimensions that will confirm this criterion is met.
__ Modified/New paved areas are sloped so drainage is routed to the receiving pervious area.
__ Runoff is dispersed across the vegetated area (for example, with a splash block) to avoid erosion and promote infiltration.
__ Vegetated area has amended soils, vegetation, and irrigation as required to maintain soil stability and permeability.
__ Any area drains within the vegetated area have inlets at least 3 inches above surrounding grade.

The preliminary design of stormwater treatment facilities and other stormwater pollution control measures in this plan are in accordance with the current edition of the City of King's Stormwater Technical Guide.

PREPARED UNDER THE DIRECTION OF

DAVID SILVERMAN
PE 58650
DATE
3/29/2023



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DATE	3-29-23
DRAWN	D. Silverman
CHECKED	D. Silverman
DATE	
DRAWN	
CHECKED	
DATE	
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CHECKED	

SHEET TITLE
LOW IMPACT DEVELOPMENT

SHEET NO.
3

OF 3 SHEETS